ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

1/23/2018 8:54:36 AM

GENE THEORY - CP-2

1450 VETERANS BLVD 2.7
REDWOOD CITY, CA 94063

IFC - 11.20.17

VOLUME 1

DEFERRED APPROVALS

ANY ITEMS NOT SUBMITTED WITH THE CONTRACT DOCUMENTS FOR PLAN CHECK, AND THAT REQUIRE THE APPROVAL BY THE REDWOOD CITY SHALL BE CONSIDERED "DEFERRED APPROVALS" AND SHALL COMPLY WITH THE FOLLOWING:

107.3.4.1 Deferred submittals:
The deferred submittals hereto listed on the construction documents are presented for the review by the building official. Documents for deferred submittal items shall be submitted to the *registered design professional in responsible charge* who shall review them and forward them to the *building official* with a notation indicating that the deferred submittal documents have been reviewed and been found to be in general conformance to the design of the building. The deferred submittal items shall not be installed until the deferred submittal documents have been *approved by the building official. [OSHPD 1, 2, & 4] Deferred submittals shall be in accordance with Title 24, Part 1, Chapter 7 Section 7-126.*

Deferred Aprovals:
SECTION 054000 "COLD-FORMED METAL FRAMING" (BUILDING EXTERIOR ENVELOPE)
SECTION 055113 "METAL PAN STAIRS"
SECTION 074646 "FIBER-CEMENT SIDING," (EXTERIOR CLADDING)
SECTION 084329 "SLIDING GLASS STOREFRONTS" (BUILDING EXTERIOR ENVELOPE)
SECTION 084413 "GLAZED ALUMINUM CURTAIN WALLS AND ENTRANCES" (BUILDING EXTERIOR ENVELOPE)
SECTION 132100 "PRE-MANUFACTURED WALK-IN COOLER"
AUTOMATIC SPRINKLER SYSTEM
FIRE ALARM SYSTEM
FIRE SUPPRESSION SYSTEM
ELEVATOR GUIDE RAIL SUPPORT SYSTEM

BUILDING DEPARTMENT NOTES:
1. PLANS FOR THE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED IN A TIMELY MANNER BUT NOT LESS THAN 30 BUSINESS DAYS PRIOR TO INSTALLATION. ALL COMMENTS RELATED TO THE DEFERRED SUBMITTAL MUST BE ADDRESSED TO THE SATISFACTION OF THE PLAN CHECK DIVISION PRIOR TO APPROVAL OF THE SUBMITTAL ITEMS."
2. I/WE UNDERSTAND THAT I/WE WILL NOT BE AUTHORIZED ANY INSPECTION OF THE DEFERRED ITEMS PROPOSED PRIOR TO THE SUBMITTAL AND APPROVAL OF PLANS AND/OR CALCULATIONS FOR THOSE DEFERRED ITEMS."

SPECIAL INSPECTIONS

2.6

A. WHERE CONTINUOUS SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR SHALL CONTINUOUSLY PROVIDE FULL-TIME VERIFICATION OF THE WORK.

B. WHERE PERIODIC SPECIAL INSPECTION IN REQUIRED, THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING THE WORK WHERE PERIODIC SPECIAL INSPECTION IS INDICATED. AS A MINIMUM, PERIODIC SPECIAL INSPECTION SHALL OCCUR DAILY.

C. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE REDWOOD CITY DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.

D. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE REDWOOD CITY , DEVELOPMENT SERVICES, FOR TESTING MATERIALS, SYSTEMS, COMPONENTS, AND EQUIPMENT.

BUILDING CODE DATA

NEW BUILDING:
TYPE OF CONSTRUCTION: I-B

OCCUPANCY CLASSIFICATION (CBC CHAPTER 3): B, A3, S1

ACCESSORY OCCUPANCIES: NA

MIXED OCCUPANCY: YES, WITH NON SEPARATED OCCUPANCY
A-3 TO B (SPRINKLERED) : 0 HR
NON SEPARATED OCCUPANCY IMPLEMENTED PER CBC 508.3 AND CLASSIFYING OVERALL OCCUPANCY OF THE NEW BUILDING AS "ASSEMBLY GROUP A-3"

BUILDING HEIGHT
ALLOWED: 160 FEET, 11 STORIES
PROPOSED: 75 FEET, 4 STORIES (NON HIGH-RISE 54'-8" TO HIGHEST OCCUPIED FLOOR)

BUILDING AREA

BASE ALLOWABLE AREA:	A-3 :	UNLIMITED	(6,067 ACTUAL)
	B:	UNLIMITED	(114,513 ACTUAL)
	S-1:	144,000 (AT ONE LEVEL)	(17,885 ACTUAL)

OVERALL BUILDING AREA PER CBC 506.2.4 FOR MIXED OCCUPANCY, MULTISTORY BUILDINGS:

A-3/B: 120,580/UNLIMITED = 0.00
+S-1: 17,885,000/144,000= 0.12
0.12 < 2 OK

SEE TABLE BELOW FOR TOTAL BUILDING AREA

OCCUPANT LOAD

REFER TO EGRESS PLANS FOR TABULATION.

FIRE-RESISTANCE RATING REQUIREMENTS

BUILDING ELEMENT	FIRE-RESISTANCE RATING (HRS)
PRIMARY STRUCTURAL FRAME	2
EXT. BEARING WALLS	2
INT. BEARING WALLS	2
EXT. NON BEARING WALLS	PER TABLE 602
INT. NON BEARING WALLS	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	2
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	1

LIFE SAFETY SYSTEMS-REFER TO BOD

SPRINKLERS: YES, NFPA 13
STANDPIPES: YES, CLASS I WET
FIRE ALARM: YES, MONITORED: YES
SMOKE DETECTION: YES

FIRE CONTROL AREA
AS TAKEN FROM JENSEN HUGHES HAZARDOUS MATERIAL REPORT DATED DECEMBER 29, 2016:
CBC SECTION 414.2.4 REQUIRES THAT CONTROL AREAS ARE VERTICALLY SEPARATED BY HORIZONTAL ASSEMBLIES WITH A MINIMUM 2-HOUR FIRE RATING. IN ADDITION, CONTROL AREAS ON THE SAME FLOOR REQUIRE A MINIMUM 1-HOUR FIRE BARRIER SEPARATION FOR THE FIRST THOUGH THE THIRD LEVELS AND 2-HOUR FIRE BARRIERS THEREAFTER.

BECAUSE THE BUILDING WILL BE OF TYPE I-B CONSTRUCTION WITH TWO-HOUR RATED FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS, EACH FLOOR WILL BE CONSIDERED ONE CONTROL AREA. THEREFORE, THERE WILL BE A TOTAL OF FOUR CONTROL AREAS IN THE BUILDING. AS THE BUILDING HEIGHT INCREASES, THE MAXIMUM ALLOWABLE QUANTITY (MAQ) PER CONTROL AREAS IS REDUCED AS FOLLOWS:

TABLE 1 (CBC TABLE 414.2.2):

CONTROL AREA	PERCENTAGE OF MAQ
LEVEL 1	100%
LEVEL 2	75%
LEVEL 3	50%
LEVEL 4	12.5%

PROJECT SUMMARY

BUILDING, ELECTRICAL, MECHANICAL, PLUMBING PERMITS FOR NEW 4-STORY LAB AND OFFICE BUILDING AND NEW PEDESTRIAN BRIDGE CONNECTING TO EXISTING BUILDING. WORK ALSO INCLUDES ALL NEW SITE WORK INCLUDING THE FOLLOWING: GENERATOR, TRASH ENCLOSURE, (3) PEDESTRIAN WOOD BRIDGES/PLATFORMS AND MONUMENT SIGN, AND ITEMS UNDER SEPARATE PERMIT: LANDSCAPE TRELLIS, GREEN WALL, WAREHOUSE RACKS AND SITE RETAINING WALLS.

APPLICABLE CODES

APPLICABLE CODES & STANDARDS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

1. TITLE 24, PART 1, 2016 BUILDING STANDARDS ADMINISTRATIVE CODE
2. TITLE 24, PART 2, 2016 CALIFORNIA BUILDING CODE (CBC)
3. TITLE 24, PART 3, 2016 CALIFORNIA ELECTRICAL CODE
4. TITLE 24, PART 4, 2016 CALIFORNIA MECHANICAL CODE
5. TITLE 24, PART 5, 2016 CALIFORNIA PLUMBING CODE
6. TITLE 24, PART 6, 2016 CALIFORNIA ENERGY CODE
7. TITLE 24, PART 9, 2016 CALIFORNIA FIRE CODE
8. TITLE 24, PART 11, 2016 CALIFORNIA GREEN BUILDING STANDARDS
9. TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHALL
10. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

PROJECT DATA

ADDRESS:	1450 VETERANS BLVD REDWOOD CITY, CA 2.7
APN:	053211110

LEGAL DESCRIPTION:
PARCELS 1 AND 2 OF PARCEL MAP NO.21494, IN REDWOOD CITY, COUNTY OF SAN MATEO, STATE OF CALIFORNIA, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN MATEO, SEPTEMBER 13, 2017 AS FILE NO. 2017-5094522 OFFICIAL RECORDS.

CODE ENFORCEMENT JURISDICTION:	REDWOOD CITY
EXISTING USE:	OFFICE BUILDING AND PARKING LOT
PROPOSED USE:	OFFICE BUILDING
YEAR CONSTRUCTED:	NA
ZONING INFO:	IL-2-1 (LIGHT INDUSTRIAL)
FLOOD ZONE:	ZONE 'X' PER FEDERAL EMERGENCY MANAGMENT AGENCY - MINIMAL FLOODING
SITE AREA:	355,771 SF, 8.16 ACRES
F.A.R.:	ALLOWABLE: 2.0 ACTUAL: 142,481 - NEW BUILDING (THIS PERMIT) 46,038 - 8928 RENOVATION (PTS#567287) 39,049 - 8959 (EXISTING NO SCOPE) 219,015 - PARKING GARAGE (PTS#5553565) 446,583/355,771.34 = 1.255
POTENTIAL HISTORIC RESOURCE:	NO
DESIGNATED HISTORIC SITE	NO

GFA- AS DEFINED BY SDMC

LEVEL	Occupancy	Comments	AREA
LEVEL 01-Z2			
LEVEL 01-Z2	CONDITIONED		36333 SF
LEVEL 01-Z2	ROOF OVERHANG		5638 SF
			41971 SF
LEVEL 01.9-Z2			
LEVEL 01.9-Z2	MEZZANINE		4274 SF
			4274 SF
LEVEL 02-Z2			
LEVEL 02-Z2	CONDITIONED		30153 SF
LEVEL 02-Z2	ATRIUM	PHANTOM FLOOR	1988 SF
			32141 SF
LEVEL 03-Z2			
LEVEL 03-Z2	CONDITIONED		29653 SF
LEVEL 03-Z2	ATRIUM	PHANTOM FLOOR	2394 SF
			32048 SF
LEVEL 04-Z2			
LEVEL 04-Z2	CONDITIONED		29619 SF
LEVEL 04-Z2	ATRIUM	PHANTOM FLOOR	2429 SF
			32048 SF
			142481 SF

PLUMBING FIXTURE TABULATION

ROOM OR SPACE	LOAD AREA (SF)	FACTOR	PERSONS (M/F)	MALE WC	MALE UR	MALE LAVS	FEMALE WC	FEMALE LAVS	DRINKING FOUNTAIN	MOP SINK
A OCCUPANCY										
A.1	6,767	1P/15 SF	451							
A.2	4,879	1P/30 SF	162							
TOTAL			613 (307/306)	3	3	2	8	5	3	1
B OCCUPANCY	59,356	1P/200 SF	297 (149, 148)	3	2	2	8	3	2	1
S OCCUPANCY	27,171	1P/5000 SF	6 (3, 3)	1	1	1	1	1	1	1
TOTALS REQUIRED				8	6	5	17	9	6	3
TOTALS PROVIDED				9	10	11	19	11	3*	4

PER CPC TABLE 422.1

* EACH BREAK ROOM HAS A WATER FILTRATION SYSTEM AT THE SINK FOR DRINKING WATER, AND THERE IS A SERVERY WITH FOOD AND BEVERAGE PROVIDED ON THE GROUND FLOOR.

AREA AS DEFINED IN CBC

LEVEL	OCCUPANCY	AREA
LEVEL 01-Z2		
LEVEL 01-Z2	CONDITIONED	36333 SF
LEVEL 01-Z2	ROOF OVERHANG	5638 SF
LEVEL 02-Z2		
LEVEL 02-Z2	CONDITIONED	30153 SF
LEVEL 02-Z2	ATRIUM	1988 SF
LEVEL 03-Z2		
LEVEL 03-Z2	CONDITIONED	29653 SF
LEVEL 03-Z2	ATRIUM	2394 SF
LEVEL 04-Z2		
LEVEL 04-Z2	CONDITIONED	29619 SF
LEVEL 04-Z2	ATRIUM	2429 SF
GRAND TOTAL: 12		138207 SF

AREA AS DEFINED BY "AREA, BUILDING" PER CHAPTER 202 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CBC)
* PER CBC SECTION 505.2 MEZZANINES ARE NOT INCLUDED IN BUILDING AREA AND FLOOR LEVELS

EXISTING BUILDING ON SITE WAS DEMOLISHED IN A SEPARATE PERMIT. REFER TO PTS#071990 SITE PLAN INDICATES DEMO PTS.
SQUARE FOOTAGE OF DEMOLISHED BUILDING WAS 29,307 SF.

TOTAL SQUARE FOOTAGE FOR SCHOOL FEES:
(AS DEFINED BY CBC AND INFORMATION BULLETIN 146): 138,207
MINUS DEMOLISHED BUILDING SF CREDIT: 29,307
TOTAL: 108,900 SF

VICINITY MAP

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD 2.7
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4
2.7	01.17.18	ASI 2.5 ADDRESS REVISION

IFC 11.20.17

Sheet Title
COVER SHEET

Sheet No.
2G-001-V1

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

SHEET INDEX VOLUME 3

SHT. #	SHT. NAME	ISSUE DATE
2E-701	TITLE 24	11.20.17
2E-702	TITLE 24	11.20.17
2E-703	TITLE 24	11.20.17
2E-704	TITLE 24	11.20.17
2E-705	TITLE 24	11.20.17
ELECTRICAL: 83		
LIGHTING		
2LT-0.00	LIGHTING SHEET INDEX	11.20.17
2LT-0.01	GENERAL EXTERIOR LIGHTING REQUIREMENTS	11.20.17
2LT-0.02	GENERAL INTERIOR LIGHTING REQUIREMENTS	11.20.17
2LT-0.03	LIGHTING FIXTURE SCHEDULE	11.20.17
2LT-0.04	LIGHTING FIXTURE SCHEDULE	11.20.17
2LT-0.11	LIGHTING CONTROL REQUIREMENTS	11.20.17
2LT-0.12	LIGHTING CONTROL SCHEDULE	11.20.17
2LT-100	OVERALL SITE LIGHTING PLAN	11.20.17
2LT-112	LEVEL 01 LIGHTING PLAN - AREA A	11.20.17
2LT-113	LEVEL 01 LIGHTING PLAN - AREA B	11.20.17
2LT-114	LEVEL 01 LIGHTING RCP - AREA A	11.20.17
2LT-115	LEVEL 01 LIGHTING RCP - AREA B	11.20.17
2LT-122	LEVEL 02 LIGHTING PLAN - AREA B	11.20.17
2LT-123	LEVEL 02 LIGHTING RCP - AREA B	11.20.17
2LT-132	LEVEL 03 LIGHTING PLAN - AREA B	11.20.17
2LT-133	LEVEL 03 LIGHTING RCP - AREA B	11.20.17
2LT-142	LEVEL 04 LIGHTING PLAN - AREA B	11.20.17
2LT-143	LEVEL 04 LIGHTING RCP - AREA B	11.20.17
LIGHTING: 18		
FOOD SERVICE		
2FS1.0	FOODSERVICE EQUIPMENT TITLE PAGE	11.20.17
2FS2.0	FOODSERVICE EQUIPMENT PLAN AND SCHEDULE	11.20.17
2FS3.0	FOODSERVICE PLUMBING PLAN	11.20.17
2FS4.0	FOODSERVICE ELECTRICAL PLAN	11.20.17
2FS5.0	FOOD SERVICE SPECIAL CONDITIONS	11.20.17
2FS7.0	STANDARD DETAILS FOR FOOD SERVICE EQUIPMENT	11.20.17
FOOD SERVICE: 6		
Grand total: 533		

_SHEET COUNT

DISCIPLINES	COUNT	ISSUE DATE
GENERAL	4	01.19.18
CIVIL	4	01.19.18
LANDSCAPE	16	01.19.18
STRUCTURAL	4	01.19.18
ARCHITECTURAL	11	01.19.18
INTERIORS	4	01.19.18
ELECTRICAL	8	01.19.18
GRAND TOTAL	51	

SHT. #	SHT. NAME	ISSUE DATE
MECHANICAL		
2G-001-V3	COVER SHEET	01.17.18
2M-001	MECHANICAL NOTES AND LEGEND	11.20.17
2M-002	MECHANICAL SCHEDULES	11.20.17
2M-003	MECHANICAL SCHEDULES	11.20.17
2M-004	MECHANICAL SCHEDULES	11.20.17
2M-005	MECHANICAL SCHEDULES	11.20.17
2M-006	MECHANICAL SCHEDULES	11.20.17
2M-007	MECHANICAL SCHEDULES	11.20.17
2M-008	MECHANICAL SCHEDULES	11.20.17
2M-009	MECHANICAL SCHEDULES	11.20.17
2M-010	MECHANICAL SCHEDULES	11.20.17
2M-011	TITLE 24	11.20.17
2M-012	TITLE 24	11.20.17
2M-013	TITLE 24	11.20.17
2M-101	MECHANICAL ZONING PLAN - LEVEL 01	11.20.17
2M-102	MECHANICAL ZONING PLAN - MEZZANINE LEVEL	11.20.17
2M-103	MECHANICAL ZONING PLAN - LEVEL 02	11.20.17
2M-104	MECHANICAL ZONING PLAN - LEVEL 03	11.20.17
2M-105	MECHANICAL ZONING PLAN - LEVEL 04	11.20.17
2M-111	MECHANICAL OVERALL FLOOR PLAN - LEVEL 01	11.20.17
2M-112	MECHANICAL FLOOR PLAN - LEVEL 01 - PART A DUCTWORK	11.20.17
2M-113	MECHANICAL FLOOR PLAN - LEVEL 01 - PART B DUCTWORK	11.20.17
2M-114	MECHANICAL FLOOR PLAN - LEVEL 01 - PART A- PIPING	11.20.17
2M-115	MECHANICAL FLOOR PLAN - LEVEL 01 - PART B PIPING	11.20.17
2M-116	MECHANICAL FLOOR PLAN - MEZZANINE LEVEL	11.20.17
2M-121	MECHANICAL OVERALL FLOOR PLAN - LEVEL 02	11.20.17
2M-122	MECHANICAL FLOOR PLAN - LEVEL 02 - PART A DUCTWORK	11.20.17
2M-123	MECHANICAL FLOOR PLAN - LEVEL 02- PART B DUCTWORK	11.20.17
2M-124	MECHANICAL FLOOR PLAN - LEVEL 02 - PART A- PIPING	11.20.17
2M-125	MECHANICAL FLOOR PLAN - LEVEL 02 - PART B PIPING	11.20.17
2M-131	MECHANICAL OVERALL FLOOR PLAN - LEVEL 03	11.20.17
2M-132	MECHANICAL FLOOR PLAN - LEVEL 03 - PART A DUCTWORK	11.20.17
2M-133	MECHANICAL FLOOR PLAN - LEVEL 03 - PART B DUCTWORK	11.20.17
2M-134	MECHANICAL FLOOR PLAN - LEVEL 03 - PART A PIPING	11.20.17
2M-135	MECHANICAL FLOOR PLAN - LEVEL 03- PART B PIPING	11.20.17
2M-141	MECHANICAL OVERALL FLOOR PLAN - LEVEL 04	11.20.17
2M-142	MECHANICAL FLOOR PLAN - LEVEL 04- PART A DUCTWORK	11.20.17
2M-143	MECHANICAL FLOOR PLAN - LEVEL 04 - PART B DUCTWORK	11.20.17
2M-144	MECHANICAL FLOOR PLAN - LEVEL 04 - PART A PIPING	11.20.17
2M-145	MECHANICAL FLOOR PLAN - LEVEL 04 - PART B PIPING	11.20.17
2M-151	MECHANICAL OVERALL FLOOR PLAN - ROOF	11.20.17
2M-152	MECHANICAL FLOOR PLAN - ROOF - PART A	11.20.17
2M-153	MECHANICAL FLOOR PLAN - ROOF - PART B	11.20.17
2M-201	MECHANICAL PRESSURIZATION PLAN-LEVEL 01	11.20.17
2M-202	MECHANICAL PRESSURIZATION PLAN- LEVEL 02	11.20.17
2M-203	MECHANICAL PRESSURIZATION PLAN- LEVEL 03	11.20.17
2M-204	MECHANICAL PRESSURIZATION PLAN- LEVEL 04	11.20.17
2M-301	MECHANICAL DIAGRAMS	11.20.17
2M-302	MECHANICAL DIAGRAMS	11.20.17
2M-303	MECHANICAL DIAGRAMS	11.20.17
2M-304	MECHANICAL DIAGRAMS	11.20.17
2M-401	MECHANICAL CONTROLS	11.20.17
2M-402	MECHANICAL CONTROLS	11.20.17
2M-403	MECHANICAL CONTROLS	11.20.17
2M-404	MECHANICAL CONTROLS	11.20.17
2M-405	MECHANICAL CONTROLS	11.20.17
2M-406	MECHANICAL CONTROLS	11.20.17
2M-407	MECHANICAL CONTROLS	11.20.17
2M-408	MECHANICAL CONTROLS	11.20.17
2M-409	MECHANICAL CONTROLS	11.20.17
2M-501	MECHANICAL DETAILS	11.20.17
2M-502	MECHANICAL DETAILS	11.20.17
2M-503	MECHANICAL DETAILS	11.20.17
2M-504	MECHANICAL DETAILS	11.20.17
2M-505	MECHANICAL DETAILS	11.20.17
2M-506	MECHANICAL DETAILS	11.20.17
MECHANICAL: 66		
ELECTRICAL		
2E-001	LEGEND NOTES AND ABBREVIATIONS	11.20.17
ES-101	ELECTRICAL SITE PLAN	11.20.17
ES-102	SITE LIGHTING PLAN	11.20.17
2E-111	OVERALL FIRST LEVEL FLOOR PLAN	11.20.17
2E-112	FIRST LEVEL - PART A - POWER	01.19.18
2E-113	FIRST LEVEL - PART B - POWER	01.19.18
2E-114	MEZZANINE LEVEL - POWER	11.20.17
2E-121	OVERALL SECOND LEVEL FLOOR PLAN	11.20.17
2E-122	SECOND LEVEL - PART A - POWER	01.19.18
2E-123	SECOND LEVEL - PART B - POWER	11.20.17
2E-131	OVERALL THIRD LEVEL FLOOR PLAN	11.20.17
2E-132	THIRD LEVEL - PART A - POWER	01.19.18
2E-133	THIRD LEVEL - PART B - POWER	11.20.17
2E-141	OVERALL FOURTH LEVEL FLOOR PLAN	11.20.17
2E-142	FOURTH LEVEL - PART A - POWER	01.19.18
2E-143	FOURTH LEVEL - PART B - POWER	11.20.17
2E-212	FIRST LEVEL - PART A - MECHANICAL POWER	11.20.17
2E-213	FIRST LEVEL - PART B - MECHANICAL POWER	11.20.17
2E-214	MEZZANINE LEVEL- MECHANICAL POWER	11.20.17
2E-222	SECOND LEVEL - PART A - MECHANICAL POWER	11.20.17
2E-223	SECOND LEVEL - PART B - MECHANICAL POWER	11.20.17
2E-232	THIRD LEVEL - PART A - MECHANICAL POWER	11.20.17
2E-233	THIRD LEVEL - PART B - MECHANICAL POWER	11.20.17
2E-242	FOURTH LEVEL - PART A - MECHANICAL POWER	11.20.17
2E-243	FOURTH LEVEL - PART B - MECHANICAL POWER	11.20.17
2E-252	ROOF LEVEL-PART A- MECHANICAL POWER	11.20.17
2E-253	ROOF LEVEL-PART B- MECHANICAL POWER	11.20.17
2E-312	FIRST LEVEL-PART A- LIGHTING	11.20.17
2E-313	FIRST LEVEL-PART B- LIGHTING	11.20.17
2E-314	MEZZANINE LEVEL - LIGHTING	11.20.17
2E-322	SECOND LEVEL-PART A- LIGHTING	11.20.17
2E-323	SECOND LEVEL-PART B- LIGHTING	11.20.17
2E-332	THIRD LEVEL-PART A- LIGHTING	11.20.17
2E-333	THIRD LEVEL-PART B- LIGHTING	11.20.17
2E-342	FOURTH LEVEL-PART A- LIGHTING	11.20.17
2E-343	FOURTH LEVEL-PART B- LIGHTING	11.20.17
2E-401	ENLARGED ELECTRICAL PLANS	11.20.17
2E-402	ENLARGED ELECTRICAL PLANS	11.20.17
2E-411	FIRST LEVEL - ENLARGED LAB PLAN	11.20.17
2E-421	SECOND LEVEL - ENLARGED LAB PLAN A	11.20.17
2E-422	SECOND LEVEL - ENLARGED LAB PLAN B	11.20.17
2E-423	SECOND LEVEL - ENLARGED LAB PLAN C	11.20.17
2E-424	SECOND LEVEL - ENLARGED LAB PLAN D	11.20.17
2E-425	SECOND LEVEL - ENLARGED LAB PLAN E	11.20.17
2E-426	SECOND LEVEL - ENLARGED LAB PLAN F	11.20.17
2E-431	THIRD LEVEL - ENLARGED LAB PLAN A	11.20.17
2E-432	THIRD LEVEL - ENLARGED LAB PLAN B	11.20.17
2E-433	THIRD LEVEL - ENLARGED LAB PLAN C	11.20.17
2E-434	THIRD LEVEL - ENLARGED LAB PLAN D	11.20.17
2E-435	THIRD LEVEL - ENLARGED LAB PLAN E	11.20.17
2E-441	FOURTH LEVEL - ENLARGED LAB PLAN A	11.20.17
2E-442	FOURTH LEVEL - ENLARGED LAB PLAN B	11.20.17
2E-443	FOURTH LEVEL - ENLARGED LAB PLAN C	11.20.17
2E-444	FOURTH LEVEL - ENLARGED LAB PLAN D	11.20.17
2E-445	FOURTH LEVEL - ENLARGED LAB PLAN E	11.20.17
2E-446	FOURTH LEVEL - ENLARGED LAB PLAN F	11.20.17
2E-501	SINGLE LINE DIAGRAM	11.20.17
2E-502	ELECTRICAL SCHEDULES	11.20.17
2E-503	LUMINAIRE SCHEDULE	11.20.17
2E-504	PANEL SCHEDULES	11.20.17
2E-505	PANEL SCHEDULES	11.20.17
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CAL GREEN REQUIREMENTS

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE. THE ADJACENT TABLE INDICATES WHETHER OR NOT AN INDIVIDUAL SECTION APPLIES TO THIS PROJECT. DRAWING NUMBER AND SPECIFICATION REFERENCES ARE PROVIDED TO FACILITATE REVIEW BY THE AUTHORITIES HAVING JURISDICTION.

REQUIREMENT		APPLICABLE (Y/N)	REFERENCE[1]
DIVISION 5.1 PLANNING AND DESIGN			
5.106.1	STORM WATER DESIGN	Y	REFER TO ROUGH GRADING CIVIL SHEETS
5.106.1.1	STORM WATER DESIGN - LOCAL ORDINANCE	Y	REFER TO ROUGH GRADING CIVIL SHEETS
5.106.2.1	STORM WATER RUNOFF RATE AND QUANTITY	Y	REFER TO ROUGH GRADING CIVIL SHEETS
5.106.2.2	STORM WATER RUNOFF QUALITY	Y	REFER TO ROUGH GRADING CIVIL SHEETS
5.106.4	BICYCLE PARKING	Y	REFER TO 2AS-101 PARKING STRUCTURE UNDER SEPARATE PERMIT
5.106.4.1.1	SHORT-TERM BICYCLE PARKING	Y	REFER TO 2AS-101
5.106.4.1.2	LONG-TERM BICYCLE PARKING	Y	REFER TO 2AS-101 PARKING STRUCTURE UNDER SEPARATE PERMIT
5.106.4.2	**BICYCLE PARKING (DSA PROJECTS)**	N	N
5.106.5.1	DESIGNATED PARKING FOR CLEAN AIR VEHICLES	Y	REFER TO 2AS-101 PARKING STRUCTURE UNDER SEPARATE PERMIT
5.106.5.1.3	PARKING STALL MARKING	Y	REFER TO 2AS-101 PARKING STRUCTURE UNDER SEPARATE PERMIT
5.106.5.2	DESIGNATED PARKING FOR CLEAN AIR VEHICLES	Y	REFER TO 2AS-101 PARKING STRUCTURE UNDER SEPARATE PERMIT
5.106.5.2.1	PARKING STALL MARKING	Y	REFER TO 2AS-101 PARKING STRUCTURE UNDER SEPARATE PERMIT
5.106.5.3	ELECTRIC VEHICLE CHARGING	Y	REFER TO 2AS-101 PARKING STRUCTURE UNDER SEPARATE PERMIT
5.106.5.3.1	SINGLE CHARGING SPACE REQUIREMENTS	N	
5.106.5.3.2	MULTIPLE CHARGING SPACE REQUIREMENTS	Y	REFER TO 2AS-101 PARKING STRUCTURE UNDER SEPARATE PERMIT
5.106.5.3.3	EV CHARGING SPACE CALCULATION	Y	REFER TO 2AS-101 PARKING STRUCTURE UNDER SEPARATE PERMIT
5.106.5.3.4	IDENTIFICATION (OF ELEC. PANEL)	Y	REFER TO 2AS-101 PARKING STRUCTURE UNDER SEPARATE PERMIT
5.106.8	LIGHT POLLUTION REDUCTION	Y	REFER TO ES-101
5.106.10	GRADING AND PAVING	Y	2C-101
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5.201.1	CALIFORNIA ENERGY CODE	Y	REFER TO SHEET 2M-012
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5.303.1	METERS	Y	REFER TO SHEET 2PS-101
5.303.1.1	NEW BUILDINGS OR ADDITIONS IN EXCESS OF 50,000 SQUARE FT.	Y	REFER TO SHEET 2PS-101
5.303.1.2	EXCESS CONSUMPTION	Y	REFER TO SHEET 2PS-101
5.303.3	WATER CONSERVING PLUMBING FIXTURES AND FITTINGS	Y	REFER TO SHEET 2P-002
5.303.3.1	WATER CLOSETS	Y	REFER TO SHEET 2P-002
5.303.3.2	URINALS	Y	REFER TO SHEET 2P-002
5.303.3.3	SHOWERHEADS	N	
5.303.3.4	FAUCETS AND FOUNTAINS	Y	REFER TO SHEET 2P-002
5.303.4	COMMERCIAL KITCHEN EQUIPMENT	Y	REFER TO FS DRAWINGS
5.303.4.1	FOOD WASTE DISPOSERS	Y	REFER TO FS DRAWINGS AND SHEET 2P-002
5.303.6	STANDARDS FOR PLUMBING FIXTURES	Y	REFER TO SHEET 2P-002
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5.304.2	OUTDOOR WATER USE IN LANDSCAPED AREAS > 500 SF	Y	SEE 2LI-003
5.304.3	OUTDOOR WATER USE IN REHABILITATED LANDSCAPE PROJECTS > 2500 SF	N	N
5.304.4	OUTDOOR WATER USE IN LANDSCAPE AREAS < 2500 SF	Y	SEE 2LI-003
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5.304.6	OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS (DSA PROJECTS)	Y	SEE 2LI-003
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5.504.3	COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION	Y	
5.504.4	FINISH MATERIAL POLLUTANT CONTROL	Y	
5.504.4.1	ADHESIVES, SEALANTS, CAULKS	Y	
5.504.4.3	PAINTS AND COATINGS	Y	
5.504.4.3.1	AEROSOL PAINTS AND COATINGS	Y	
5.504.4.3.2	VERIFICATION	Y	
5.504.4.4	CARPET SYSTEMS	Y	
5.504.4.4.1	CARPET CUSHION	Y	
5.504.4.4.2	CARPET ADHESIVE	Y	
5.504.4.5	COMPOSITE WOOD PRODUCTS	Y	
5.504.4.5.3	DOCUMENTATION	Y	
5.504.4.6	RESILIENT FLOORING SYSTEMS	Y	
5.504.4.6.1	VERIFICATION OF COMPLIANCE	Y	
5.504.5.3	FILTERS	Y	
5.504.7	ENVIRONMENTAL TOBACCO SMOKE CONTROL	Y	
5.505.1	INDOOR MOISTURE CONTROL	Y	
5.506.1	OUTDOOR AIR DELIVERY	Y	
5.506.2	CARBON DIOXIDE MONITORING	Y	
5.507.4	ACOUSTICAL CONTROL	Y	
5.507.4.1	EXTERIOR NOISE TRANSMISSION PRESCRIPTIVE METHOD	Y: EXT.WALLS: (CEMENT SIDING): 53 dBa; WINDOWS (PER SPECS): 33 dBa; Roof (INSULATED PVC) :44 dBa & SEE REPORT.	
5.507.4.2	PERFORMANCE METHOD	Y	
5.507.4.2.2	DOCUMENTATION OF COMPLIANCE	Y	
5.507.4.3	INTERIOR SOUND TRANSMISSION	Y: INTERIOR NOISE LEVELS NOT TO EXCEED 50 dD. (SEE ACOUSTICAL REPORT)	
5.508.1	OZONE DEPLETION AND GREENHOUSE GAS REDUCTION	Y	
5.508.1.1	CFCs	Y	
5.508.1.2	HALONS	Y	
5.508.1.3	HYDROCHLOROFLUOROCARBONS (HCFCs)	Y	
5.508.1.4	HYDROFLUOROCARBONS (HFCs)	Y	
5.508.2	SUPERMARKET REFRIGERANT LEAK REDUCTION	N	

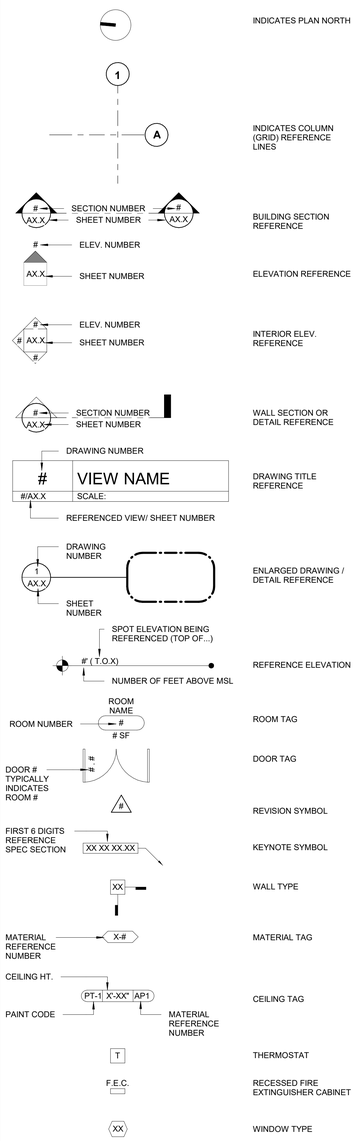
FOOTNOTES

1. REFER TO SPECIFICATION 018113 "SUSTAINABLE DESIGN REQUIREMENTS - CALGREEN" FOR FURTHER DEFINITION OF PROJECT REQUIREMENTS.

ABBREVATIONS

HB	HOSE BIB
HD	HEAVY DUTY
HDR	HEADER
HDW	HARDWARE
HM	HOLLOW METAL
HOR	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIAMETER
INCL	INCLUDE(D), (ION)
INT	INTERIOR
JAN	JANITOR
JT	JOINT
KIT	KITCHEN
KJ	KEYED COLD JOINT
KO	KNOCKOUT
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LH	LEFT HAND
LL	LIVE LOAD
MAG	MAGNETIC
MAX	MAXIMUM
MECH	MECHANIC(AL)
MFR	MANUFACTURE(R)
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MSL	MEAN SEA LEVEL
MTL	METAL
N	NORTH
(N)	NEW
NIC	NOT IN CONTRACT
NOM	NOMINAL
NR	NON-RATED
NTS	NOT TO SCALE
O/	OVER
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
O.F.C.I	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
OPH	OPPOSITE HAND
OTS	OPEN TO STRUCTURE
PERF	PERFORATE(D)
PL	PLATE
PLAM	PLASTIC LAMINATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT/PAINT
PVC	POLYVINYL CHLORIDE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REQ'D	REQUIRED
REV	REVISION(S), REVISED
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
S	SOUTH
SCH	SCHEDULE
SD	STORM DRAIN
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUC	STRUCTURAL
SYM	SYMMETRY (ICAL)
T&G	TONGUE & GROOVE
TEL	TELEPHONE
THK	THICK(NESS)
TO	TOP OF
TOC	TOP OF CURB
TOS	TOP OF SLAB
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UON, OR UNO	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
W	WEST, WIDTH, WIDE
W/	WITH
WC	WATER CLOSET
WD	WOOD
WP	WATERPROOFING
WWF	WELDED WIRE FABRIC
@	AT
ABV	ABOVE
AC	ASPHALT CONCRETE
ACC	ACCESSIBLE (HANDICAPPED)
A/C	AIR CONDITIONING
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALT	ALTERNATE
AL	ALUMINUM
AP	ACCESS PANEL
ARCH	ARCHITECT(URAL)
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BEL	BELOW
B/T	BETWEEN
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BSMT	BASEMENT
C	COMPACT
CAB	CABINET
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ELECTRICAL CODE
CMC	CALIFORNIA MECHANICAL CODE
CPC	CAQLIFORNIA PLUMBING CODE
CFC	CALIFORNIA FIRE CODE
C.F.C.I.	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CIP	CAST-IN-PLACE
℄ OR C.L.	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS/CONTINUE
CPT	CARPET(ED)
CT	CERAMIC TILE
DEMO	DEMOLISH/DEMOLITION
DEP	DEPRESSED
DF	RINKING FOUNTAIN
DIAG	DIAGONAL
DIAM, OR DIA	DIAMETER (Ø)
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DSCR	DESCRIPTION
DWG	DRAWING
E	EAST
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
ENC	ENCLOSE (URE)
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EXP	EXPOSED
EXT	EXTERIOR/EXTRUDE(D)
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FURNITURE, FIXTURES & EQUIP.
FF	FINISHED FLOOR
FG	FINISH GRADE
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FLR	FLOOR(ING)
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF SHEATHING
FP	FIREPROOF
FRP	FIBER REINFORCED PANEL
FT	FOOT
FTG	FOOTING
FUR	FURRED (ING)
GA	GAGE, GAUGE
GALV	GALVANIZED
GD	GRADE, GRADING
GFRC	GLASS FIBER REINFORCED CONC.
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS, GLAZING
GPDW	GYPSUM WALLBOARD
GWB	GYPSUM WALLBOARD
GYP. BD.	GYPSUM WALLBOARD

SYMBOL LEGEND



GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title

GENERAL NOTES, ABBREVIATIONS & SYMBOL LEGEND

2G-003 2.2

10/2/2017 3:41:48 PM
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EGRESS NOTES

1. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. CBC 1010.1.9

2. ALL DOORS ON CARD READERS TO BE CONNECTED TO FIRE ALARM SYSTEM AND DEACTIVE IN EVENT OF EMERGENCIES.

3. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, WILL BE ILLUMINATED TO A LEVEL OF NOT LESS THAN ONE FOOT-CANDLE AT THE WALKING SURFACE AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED. CBC 1008.1; 1008.2

FIRE ALARM SYSTEM NOTES

1. ALL DOORS ON CARD READERS TO BE CONNECTED TO FIRE ALARM SYSTEM AND DEACTIVE IN EVENT OF EMERGENCIES.
2. FIRE ALARM SYSTEM FOR EMPLOYEE WORK AREAS HAVING AUDIBLE ALARM COVERAGE TO ALSO HAVE VISIBLE ALARMS COMPLYING WITH CHAPTER 9, SECTION 907.5.2.3.1 (CBC, SEC. 11B-215.3)

BUILDING DEPARTMENT NOTES

1. LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACORDANCE WITH CFC 906 AND CALIFORNIA CODE OF REGULATIONS CCR, TITLE 19.
2. DURING CONSTRUCTION, AT LEAST ONE EXTINGUISHER SHALL BE PROVIDED ON EACH FLOOR LEVEL AT EACH STAIRWAY, IN ALL STORAGE AND CONSTRUCTION SHEDS, IN LOCATIONS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED OR USED, AND WHERE OTHER SPECIAL HAZARDS ARE PRESENT PER CFC SECTION 3315.1.
3. IN BUILDINGS THAT REQUIRE STANDPIPES, STANDPIPES SHALL BE PROVIDED DURING CONSTRUCTION WHEN THE HEIGHT REACHES 40 FEET ABOVE TEH LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS. A FIRE DEPARTMENT CONNECTION SHALL BE NO MORE THAN 100 FEET FROM AVAILABLE FIRE DEPARTMENT VEHICLE ACCESS ROADWAYS. CFC SECTION 3310, 3313.
4. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL CONFORM TO CFC CHAPTER 33. WELDING, CUTTING, AND OTHER HOT WORK SHALL BE IN CONFORMANCE WITH CFC CHAPTER 35.
5. ADDRESS IDENTIFICATION SHALL BE PROVIED FOR ALL NEW AND EXISTING BUILDINGS IN A LOCATION THAT IS PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. WHERE ACCESS IS BY WAY OF A PRIVATE ROAD AND THE BUILDING ADDRESS CANNOT BE VIEWED FROM THE PUBLIC WAY, AN APPROVED SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. PREMISES IDENTIFICATION SHALL CONFORM TO CBC SECTION 501.2. CFC 505.
6. WALL, FLOOR AND CEILING FINISHES AND MATERIALS SHALL NOT EXCEED THE INTERIOR FINISH CLASSIFICATIONS IN CBC TABLE 803.11 AND SHALL MEET THE FLAME PROPAGATION PERFORMANCE CRITERIA O THE CALIFORNIA CODE OF REGULATIONS, TITLE 19, DIVISION 1. DECORATIVE MATERIALS SHALL BE PROPERLY TREATED BY A PRODUCT OR PROCESS APPROVED BY THE STATE FIRE MARSHAL. APPROPRIATE DOCUMENTATION PROVIDED TO THE REDWOOD CITY
7. DUMPSTERS AND TRASH CONTAINERS EXCEEDING 1.5 CUBIC YARDS SHALL NOT BE STORED IN BUILDINGS OR PLACED WITHIN 5 FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTIBLE ROOF EAVE LINES UNLESS PROTECTED BY AN APPROVED SPRINKLER SYSTEM OR LOCATED IN A TYPE I OR IIA STRUCTURE SEPARATED BY 10 FEET FROM OTHER STRUCTURES. CONTAINERS LARGER THAN 1 CUBIC YARD SHALL BE OF NON- OR LIMITED-COMBUSTIBLE MATERIALS OR SIMILARLY PROTECTED OR SEPARATED. CFC 304.3.
8. EXITS, EXIT SIGNS, FIRE ALARM PANELS, HOSE CABINETS, FIRE EXTINGUISHER LOCATIONS, AND STANDPIPE CONNECTIONS SHALL NOT BE CONCEALED BY CURTAINS, MIRRORS, OR OTHER DECORATIVE MATERIAL.
9. OPEN FLAMES, FIRE, AND BURNING ON ALL PREMISES IS PROHIBITED EXCEPT AS SPECIFICALLY PERMITTED BY THE REDWOOD CITY AND CFC 308.
10. THE EGRESS PATH SHALL REMAIN FREE AND CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES. NO STORAGE IS PERMITTED IN ANY EGRESS PATHS.
11. COMPLETE PLANS AND SPECIFICATIONS FOR ALL FIRE EXTINGUISHING SYSTEMS, INCLUDING AUTOMATCI SPRINKLER AND STANDPIPE SYSTEMS AND OTHER SPECIAL FIRE EXTINGUISHING SYSTEMS AND RELATED APPURTENANCES SHALL BE SUBMITTED TO THE REDWOOD CITY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION." CFC 901.2
12. COMPLETE PLANS AND SPECIFICATIONS FOR FIRE ALARM SYSTEMS SHALL BE SUBMITTED TO THE REDWOOD CITY DEVELOPMENT SERVICES FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. CFC 907.1.1
13. AN AUTOMATIC EXTINGUISHING SYSTEM SHALL BE PROVIDED TO PROTECT COMMERCIAL-TYPE FOOD HEATING EQUIPMENT THAT PRODUCES GREASE-LADEN VAPORS AND SHALL COMPLY WITH 2016 CFC, CMC AND 2016 NFPA 17A REVIEW AND APPROVAL OF A HOOD AND DUCT EXTINGUISHING SYSTEM PLAN IS REQUIRED PRIOR TO INSTALLATION OR USE OF COOKING EQUIPMENT.
14. KEY BOXES SHALL BE PROVIDED FOR ALL HIGH-RISE BUILDINGS, POOL ENCLOSURES, GATES IN THE PATH OF FIREFIGHTER TRAVEL TO STRUCTURES, SECURED PARKING LEVELS, DOORS GIVING ACCESS TO ALARM PANELS AND/OR ANNUNCIATORS, AND ANY OTHER STRUCTURES OR AREAS WHERE ACCESS TO AN AREA IS RESTRICTED AND SHALL BE INSTALLED PER CFC 506.
15. WATER SUPPLY AND DRAIN PIPES UNDER SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS." (CBC, SEC. 11B-606.5)
16. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM. (CBC, SEC. 11B-309.4).
17. FIRE ALARM SYSTEM FOR EMPLOYEE WORK AREAS HAVING AUDIBLE ALARM COVERAGE TO ALSO HAVE VISIBLE ALARMS COMPLYING WITH CHAPTER 9, SECTION 907.5.2.3.1 (CBC, SEC. 11B-215.3)

REDWOOD CITY

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

BUILDING DEPARTMENT NOTES

2.3

Sheet No.

2G-004

DPR Issued Sheet 2017-11-20
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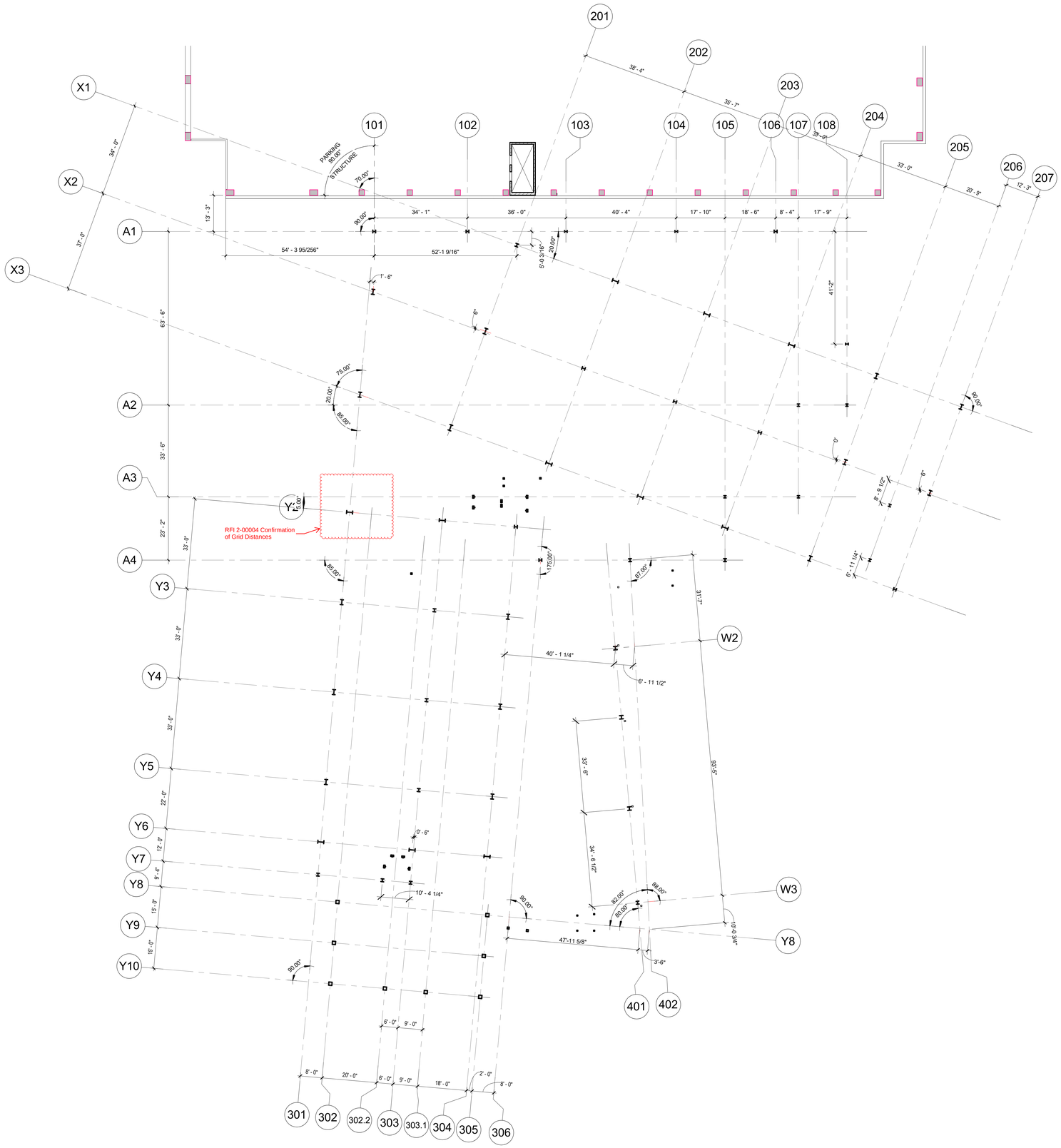

A1 GRID PLAN

D1 / 2A-203 | 1/16" = 1'-0"

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

Sheet Title

GRID LAYOUT

Sheet No.
2G-005

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

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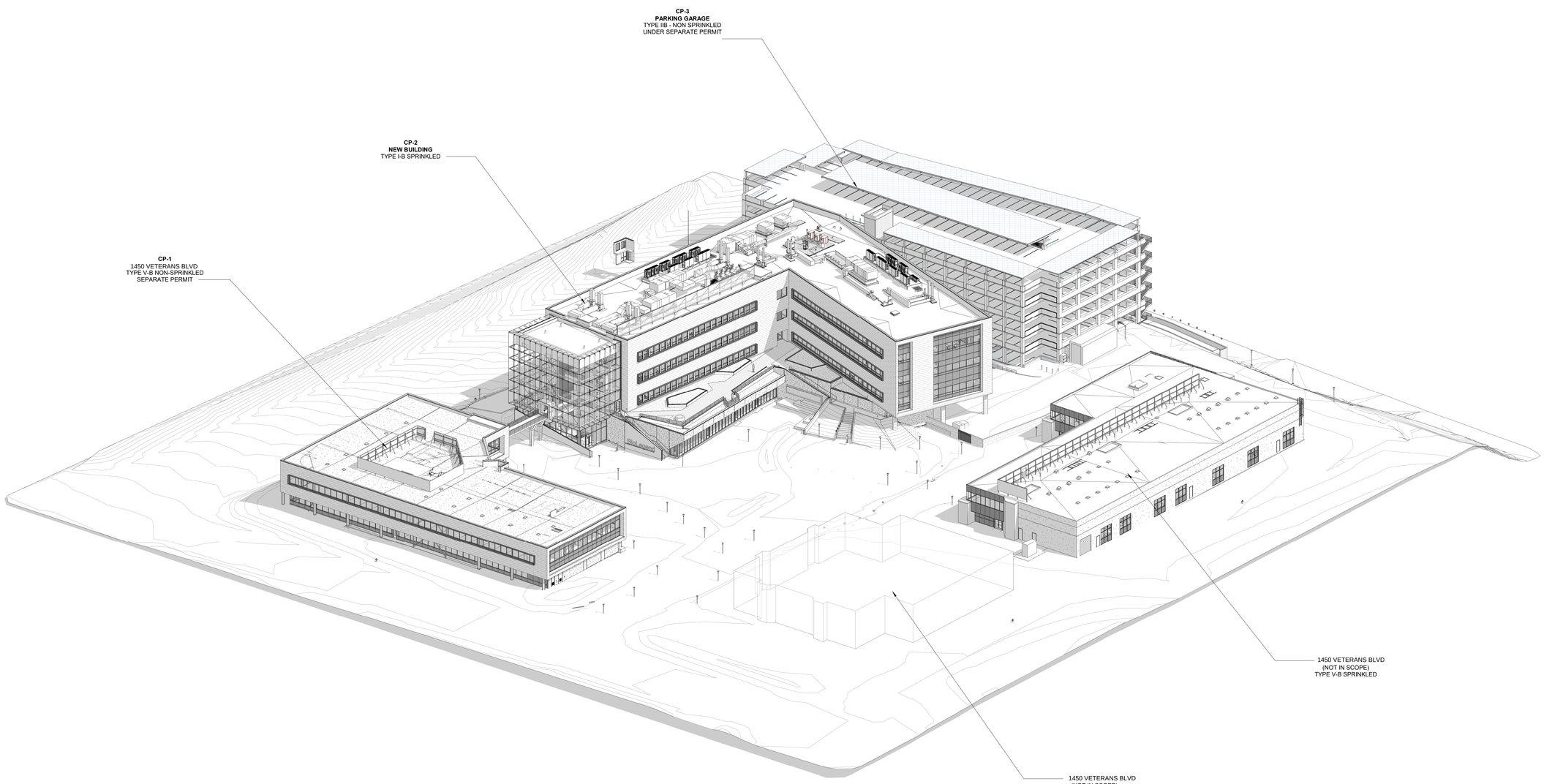

A1 SITE AERIAL

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CP-2
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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
SITE AERIAL

Sheet No.
2G-010

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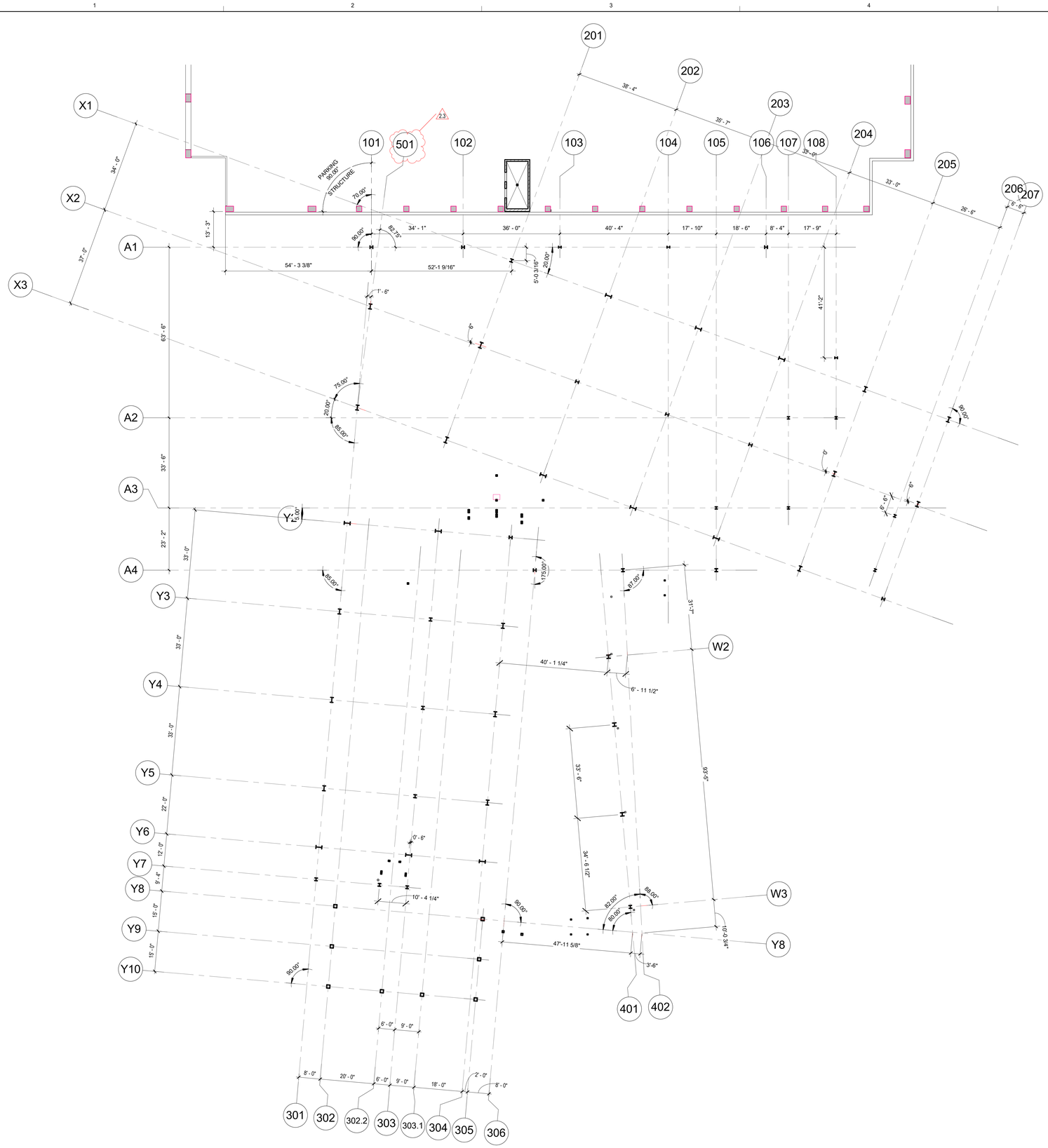

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A1 **GRID PLAN**

D1 / 2A-203 | 1/16" = 1'-0"

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2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
GRID LAYOUT

Sheet No.
2G-011

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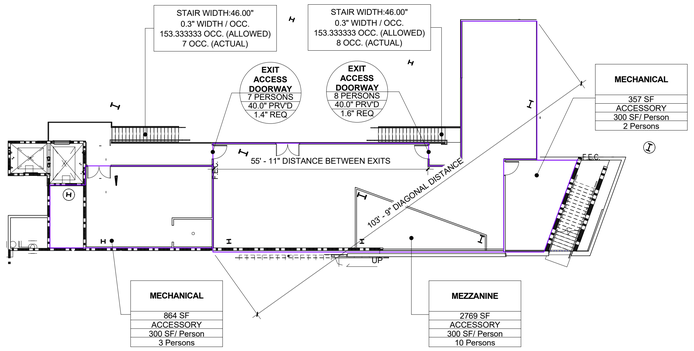


D1 LEVEL 01.9 - MEZZANINE EGRESS PLAN

B5 / 2A-208 | 1/16" = 1'-0"

AREA LEGEND

- ACCESSORY
- ASSEMBLY
- COMMERCIAL KITCHEN
- LAB
- OFFICE
- WAREHOUSE

EGRESS PLAN LEGEND

P.H. PANIC HARDWARE
P.P.
C.P.O.T. COMMON PATH OF TRAVEL

AREA NAME	
	### SF
FUNCTION OF SPACE:	FUNCTION
OCCUPANT LOAD FACTOR:	### SF/ PERSON
OCCUPANT LOAD:	# PERSONS

FUNCTION OF SPACE PER CBC

1004.1.2 OF THE CURRENT CBC

PERSONS ALLOWED IN THE

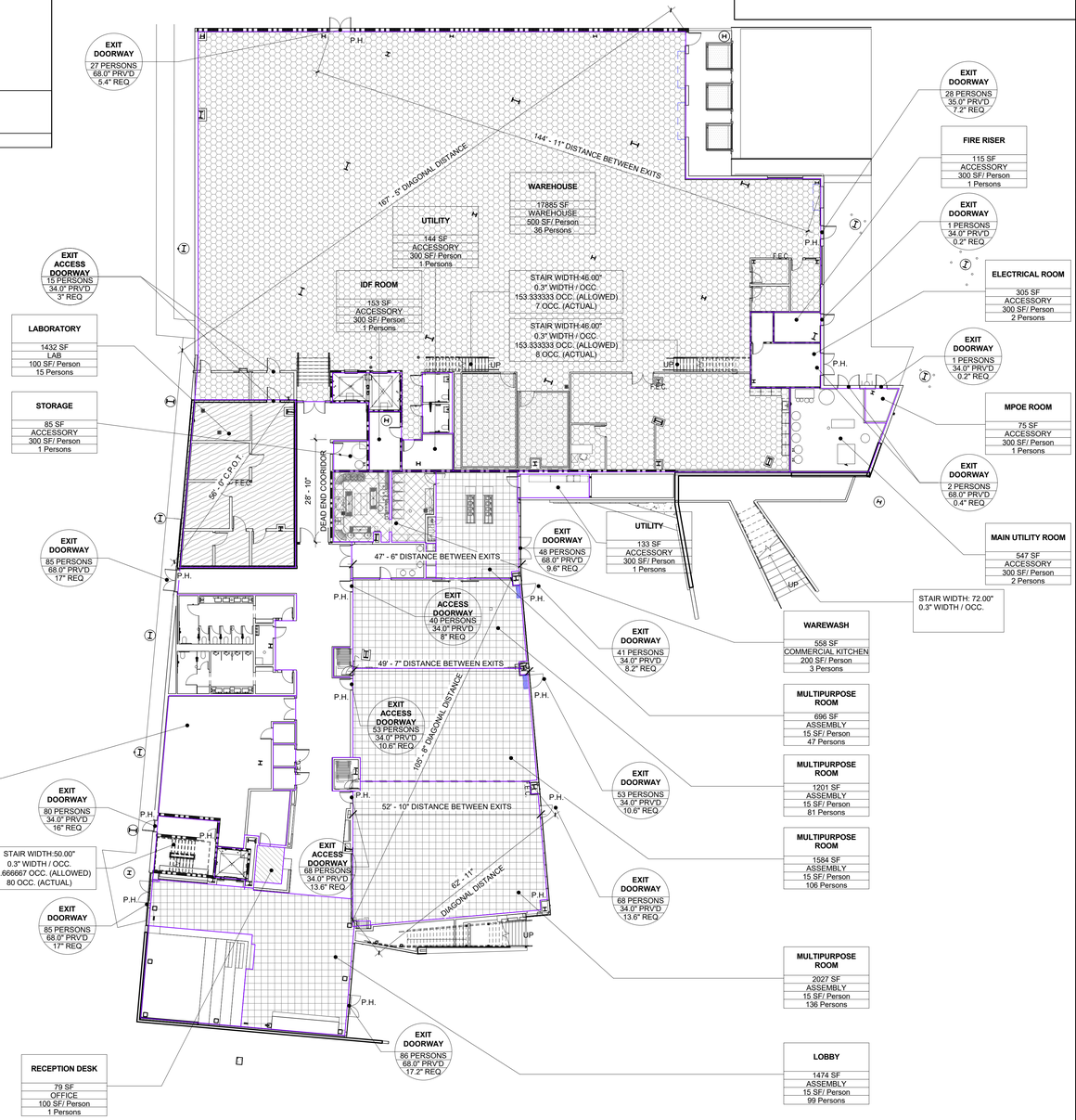
EXIT DOORWAY
PERSONS
XX PRVD
YY" REQ

TO USE THIS COMPONENT OF EGRESS

MEANS OF EGRESS WIDTH (@ 2" FOR THE DOOR THICKNESS PLUS STOP DIMENSION).

CALCULATED VALUE OF THE

MULTIPLIED BY THE MEANS OF EGRESS CAPACITY FACTOR IN



A1 LEVEL 01 - EGRESS PLAN

D1 / 2A-203 | 1/16" = 1'-0"

0 8' 16' 32'
SCALE: 1/16" = 1'

N

AREA SCHEDULE (EGRESS PLAN CALCS)

AREA NAME	AREA (SF)	AREA ALLOWANCE PER OCCUPANT (TABLE 1004.1.2)	CALCULATED LOAD
Not Placed			
ASSEMBLY			
SERVERY	Not Placed	15 SF	
			0
BUSINESS			
CIRCULATION	Not Placed	100 SF	
RESTROOM	Not Placed	100 SF	
RESTROOM	Not Placed	100 SF	
			0
			0
LEVEL 01-Z2			
ACCESSORY			
ELECTRICAL ROOM	305 SF	300 SF	2
FIRE RISER	115 SF	300 SF	1
IDF ROOM	153 SF	300 SF	1
MAIN UTILITY ROOM	547 SF	300 SF	2
MPOE ROOM	75 SF	300 SF	1
STORAGE	85 SF	300 SF	1
STORAGE	1290 SF	300 SF	5
UTILITY	133 SF	300 SF	1
UTILITY	144 SF	300 SF	1
			15
ASSEMBLY			
LOBBY	1474 SF	15 SF	99
MULTIPURPOSE ROOM	696 SF	15 SF	47
MULTIPURPOSE ROOM	1201 SF	15 SF	81
MULTIPURPOSE ROOM	1584 SF	15 SF	106
MULTIPURPOSE ROOM	2027 SF	15 SF	136
			469
COMMERCIAL KITCHEN			
WAREWASH	558 SF	200 SF	3
			3
LAB			
LABORATORY	1432 SF	100 SF	15
			15
OFFICE			
RECEPTION DESK	79 SF	100 SF	1
			1
WAREHOUSE			
WAREHOUSE	17885 SF	500 SF	36
			36
			539
LEVEL 01.9-Z2			
ACCESSORY			
MECHANICAL	357 SF	300 SF	2
MECHANICAL	864 SF	300 SF	3
MEZZANINE	2769 SF	300 SF	10
			15
			15
LEVEL 02-Z2			
ACCESSORY			
COLD ROOM	720 SF	300 SF	3
ELECTRICAL ROOM	106 SF	300 SF	1
IDF ROOM	563 SF	300 SF	2
STORAGE	218 SF	300 SF	1
STORAGE	304 SF	300 SF	2
UTILITY ROOM	124 SF	300 SF	1
			10
ASSEMBLY			
BREAK ROOM	571 SF	15 SF	39
ROOF DECK	2089 SF	7 SF	299
			338
BUSINESS			
WELLNESS ROOM	97 SF	100 SF	1
			1
LAB			
LABORATORY	623 SF	100 SF	7
LABORATORY	1208 SF	100 SF	13
LABORATORY	1252 SF	100 SF	13
LABORATORY	2264 SF	100 SF	23
LABORATORY	2398 SF	100 SF	24
LABORATORY	2422 SF	100 SF	25
LABORATORY	2762 SF	100 SF	28
LABORATORY	3018 SF	100 SF	31
			164
OFFICE			
OFFICE	1128 SF	100 SF	12
OFFICE	1576 SF	100 SF	16
			28
			541
LEVEL 03-Z2			
ACCESSORY			
COLD ROOM	995 SF	300 SF	4
ELECTRICAL ROOM	108 SF	300 SF	1
MDF/SERVER	777 SF	300 SF	3
STORAGE	79 SF	300 SF	1
STORAGE	845 SF	300 SF	3
UTILITY ROOM	126 SF	300 SF	1
			13
ASSEMBLY			
BREAK ROOM	357 SF	15 SF	24
CONFERENCE ROOM	318 SF	15 SF	22
			46
LAB			
LABORATORY	1524 SF	100 SF	16
LABORATORY	2421 SF	100 SF	25
LABORATORY	5150 SF	100 SF	52
LABORATORY	6144 SF	100 SF	62
			155
OFFICE			
OFFICE	659 SF	100 SF	7
OFFICE	1061 SF	100 SF	11
OFFICE	1124 SF	100 SF	12
WELLNESS ROOM	114 SF	100 SF	2
			32
			246
LEVEL 04-Z2			
ACCESSORY			
COLD ROOM	363 SF	300 SF	2
ELECTRICAL ROOM	108 SF	300 SF	1
IDF ROOM	409 SF	300 SF	2
UTILITY ROOM	127 SF	300 SF	1
			6
ASSEMBLY			
BREAK ROOM	330 SF	15 SF	23
			23
LAB			
LABORATORY	1210 SF	100 SF	13
LABORATORY	2640 SF	100 SF	27
LABORATORY	3358 SF	100 SF	34
LABORATORY	3897 SF	100 SF	39
LABORATORY	5186 SF	100 SF	52
			165
OFFICE			
OFFICE	1050 SF	100 SF	11
OFFICE	1232 SF	100 SF	13
OFFICE	1799 SF	100 SF	18
			42
			236
GRAND TOTAL			1577

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

MEANS OF EGRESS PLANS

Sheet No.

2G-101

8/8/2017 10:46:40 AM

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

8/8/2017 10:57:18 AM
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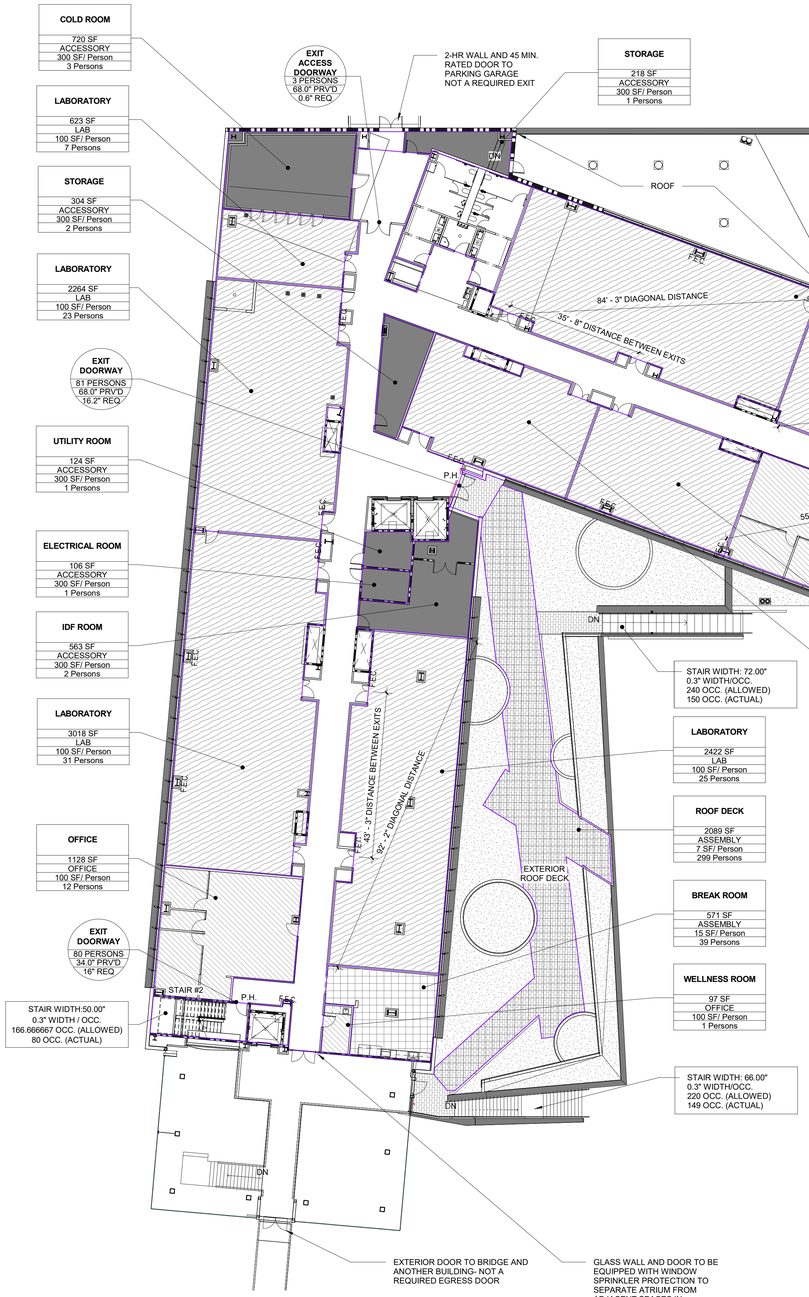

AREA LEGEND

- ACCESSORY
- ASSEMBLY
- LAB
- OFFICE

EGRESS PLAN LEGEND

P.H. PANIC HARDWARE
P.P. PUSH PULL HARDWARE
C.P.O.T. COMMON PATH OF TRAVEL

AREA NAME	
AREA:	### SF
FUNCTION OF SPACE:	FUNCTION
OCCUPANT LOAD FACTOR:	### SF/ PERSON
OCCUPANT LOAD:	# PERSONS

GROSS OR NET AREA BASED ON OCCUPANCY (IN SQUARE FEET)

FUNCTION OF SPACE PER CBC TABLE 1004.1.2

MAX. FLR. AREA ALLOWANCES PER OCCUPANT PER TABLE 1004.1.2 OF THE CURRENT CBC

CALCULATED QUANTITY OF PERSONS ALLOWED IN THE ROOM BASED ON OCCPANCY, AREA & ALLOWABLE LOAD (AREA/OCCUPANT LOAD FACTOR)

EXIT DOORWAY
PERSONS
XX PRVD
YY" REQ

ACTUAL NUMBER OF PERSONS TO USE THIS COMPONENT OF EGRESS

MEANS OF EGRESS WIDTH (@ DOORS -2" FOR THE DOOR THICKNESS PLUS STOP DIMENSION).

CALCULATED VALUE OF THE ACTUAL NUMBER OF PERSONS MULTIPLIED BY THE MEANS OF EGRESS CAPACITY FACTOR IN SECTION 1005 OF THE CBC. (# PERSONS x 0.2)

AREA SCHEDULE (EGRESS PLAN CALCS)

AREA NAME	AREA (SF)	AREA ALLOWANCE PER OCCUPANT (TABLE 1004.1.2)	CALCULATED LOAD
Not Placed			
ASSEMBLY			
SERVERY	Not Placed	15 SF	
			0
BUSINESS			
CIRCULATION	Not Placed	100 SF	
RESTROOM	Not Placed	100 SF	
RESTROOM	Not Placed	100 SF	
			0
			0
LEVEL 01-Z2			
ACCESSORY			
ELECTRICAL ROOM	305 SF	300 SF	2
FIRE RISER	115 SF	300 SF	1
IDF ROOM	153 SF	300 SF	1
MAIN UTILITY ROOM	547 SF	300 SF	2
MPOE ROOM	75 SF	300 SF	1
STORAGE	85 SF	300 SF	1
STORAGE	1290 SF	300 SF	5
UTILITY	133 SF	300 SF	1
UTILITY	144 SF	300 SF	1
			15
ASSEMBLY			
LOBBY	1474 SF	15 SF	99
MULTIPURPOSE ROOM	696 SF	15 SF	47
MULTIPURPOSE ROOM	1201 SF	15 SF	81
MULTIPURPOSE ROOM	1584 SF	15 SF	106
MULTIPURPOSE ROOM	2027 SF	15 SF	136
			469
COMMERCIAL KITCHEN			
WAREWASH	558 SF	200 SF	3
			3
LAB			
LABORATORY	1432 SF	100 SF	15
			15
OFFICE			
RECEPTION DESK	79 SF	100 SF	1
			1
WAREHOUSE			
WAREHOUSE	17885 SF	500 SF	36
			36
			539
LEVEL 01 9-Z2			
ACCESSORY			
MECHANICAL	357 SF	300 SF	2
MECHANICAL	864 SF	300 SF	3
MEZZANINE	2769 SF	300 SF	10
			15
			15
LEVEL 02-Z2			
ACCESSORY			
COLD ROOM	720 SF	300 SF	3
ELECTRICAL ROOM	106 SF	300 SF	1
IDF ROOM	563 SF	300 SF	2
STORAGE	218 SF	300 SF	1
STORAGE	304 SF	300 SF	2
UTILITY ROOM	124 SF	300 SF	1
			10
ASSEMBLY			
BREAK ROOM	571 SF	15 SF	39
ROOF DECK	2089 SF	7 SF	299
			338
LAB			
LABORATORY	623 SF	100 SF	7
LABORATORY	1208 SF	100 SF	13
LABORATORY	1252 SF	100 SF	13
LABORATORY	2264 SF	100 SF	23
LABORATORY	2398 SF	100 SF	24
LABORATORY	2422 SF	100 SF	25
LABORATORY	2762 SF	100 SF	28
LABORATORY	3018 SF	100 SF	31
			164
OFFICE			
OFFICE	1128 SF	100 SF	12
OFFICE	1576 SF	100 SF	16
WELLNESS ROOM	97 SF	100 SF	1
			29
			541
LEVEL 03-Z2			
ACCESSORY			
COLD ROOM	995 SF	300 SF	4
ELECTRICAL ROOM	108 SF	300 SF	1
MDF/SERVER	777 SF	300 SF	3
STORAGE	79 SF	300 SF	1
STORAGE	845 SF	300 SF	3
UTILITY ROOM	126 SF	300 SF	1
			13
ASSEMBLY			
BREAK ROOM	357 SF	15 SF	24
CONFERENCE ROOM	318 SF	15 SF	22
			46
LAB			
LABORATORY	1524 SF	100 SF	16
LABORATORY	2421 SF	100 SF	25
LABORATORY	5150 SF	100 SF	52
LABORATORY	6144 SF	100 SF	62
			155
OFFICE			
OFFICE	659 SF	100 SF	7
OFFICE	1061 SF	100 SF	11
OFFICE	1124 SF	100 SF	12
WELLNESS ROOM	114 SF	100 SF	2
			32
			246
LEVEL 04-Z2			
ACCESSORY			
COLD ROOM	363 SF	300 SF	2
ELECTRICAL ROOM	108 SF	300 SF	1
IDF ROOM	409 SF	300 SF	2
UTILITY ROOM	127 SF	300 SF	1
			6
ASSEMBLY			
BREAK ROOM	330 SF	15 SF	23
			23
LAB			
LABORATORY	1210 SF	100 SF	13
LABORATORY	2640 SF	100 SF	27
LABORATORY	3358 SF	100 SF	34
LABORATORY	3897 SF	100 SF	39
LABORATORY	5186 SF	100 SF	52
			165
OFFICE			
OFFICE	1050 SF	100 SF	11
OFFICE	1232 SF	100 SF	13
OFFICE	1799 SF	100 SF	18
			42
			236
GRAND TOTAL			1577

A1 LEVEL 02 - EGRESS PLAN

A1 / 2A-202 | 1/16" = 1'-0"

0 8' 16' 32'
SCALE: 1/16" = 1'

N

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MEANS OF EGRESS PLANS

Sheet No.
2G-102

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

8/8/2017 10:55:52 AM
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AREA LEGEND

- ACCESSORY
- ASSEMBLY
- LAB
- OFFICE

EGRESS PLAN LEGEND

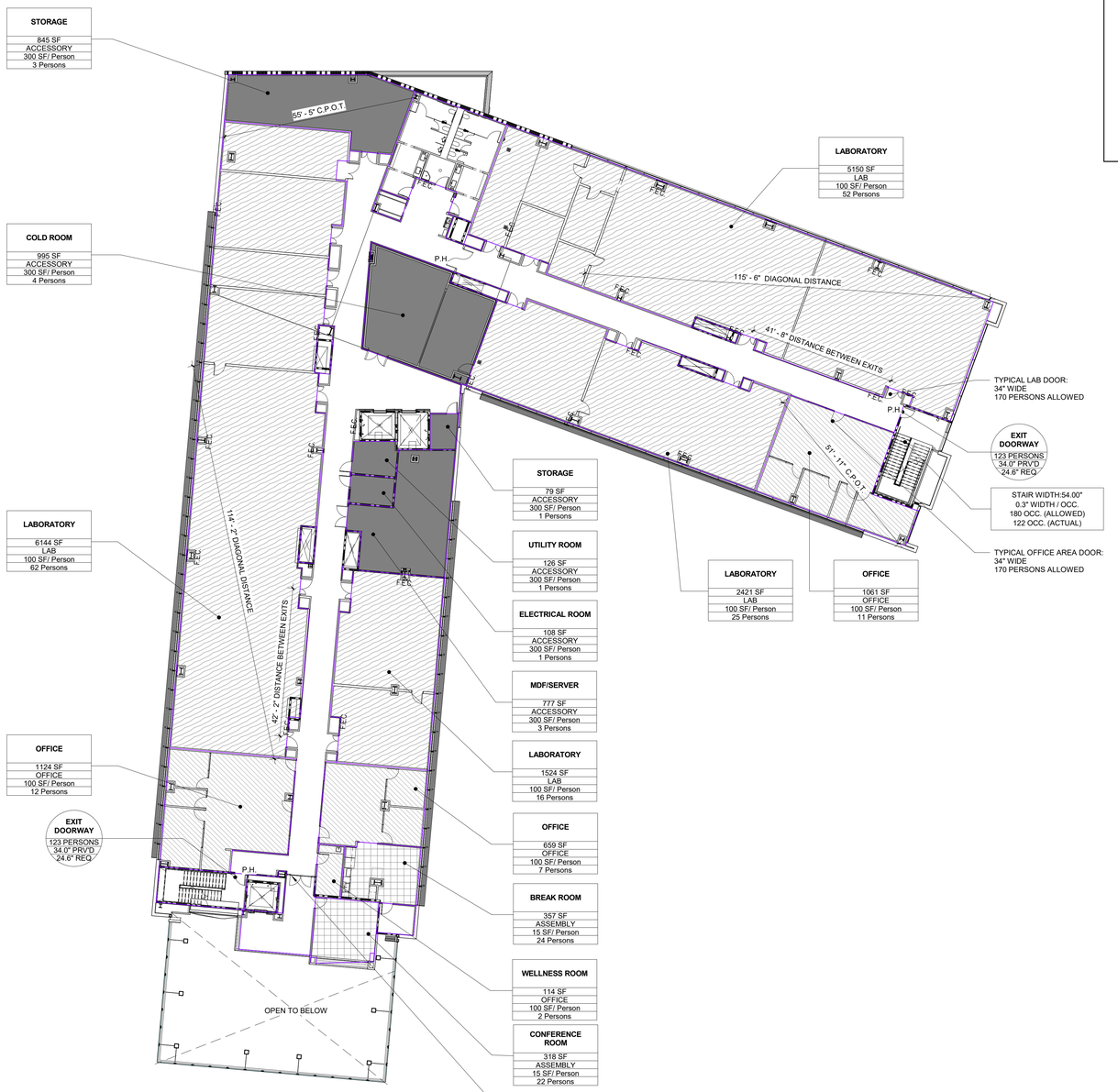
P.H. PANIC HARDWARE
P.P. PUSH PULL HARDWARE
C.P.O.T. COMMON PATH OF TRAVEL

AREA NAME	
AREA:	### SF
FUNCTION OF SPACE:	FUNCTION
OCCUPANT LOAD FACTOR:	### SF/ PERSON
OCCUPANT LOAD:	# PERSONS

- FUNCTION OF SPACE PER CBC TABLE 1004.1.2
- GROSS OR NET AREA BASED ON OCCUPANCY (IN SQUARE FEET)
- MAX. FLR. AREA ALLOWANCES PER OCCUPANT PER TABLE 1004.1.2 OF THE CURRENT CBC
- CALCULATED QUANTITY OF PERSONS ALLOWED IN THE ROOM BASED ON OCCPANCY, AREA & ALLOWABLE LOAD (AREA/OCCUPANT LOAD FACTOR)

EXIT DOORWAY
PERSONS
XX PRV'D
YY' REQ

- ACTUAL NUMBER OF PERSONS TO USE THIS COMPONENT OF EGRESS
- MEANS OF EGRESS WIDTH (@ DOORS -2" FOR THE DOOR THICKNESS PLUS STOP DIMENSION).
- CALCULATED VALUE OF THE ACTUAL NUMBER OF PERSONS MULTIPLIED BY THE MEANS OF EGRESS CAPACITY FACTOR IN SECTION 1005 OF THE CBC. (# PERSONS x 0.2)



AREA SCHEDULE (EGRESS PLAN CALCS)

AREA NAME	AREA (SF)	AREA ALLOWANCE PER OCCUPANT (TABLE 1004.1.2)	CALCULATED LOAD
Not Placed			
ASSEMBLY			
SERVERY	Not Placed	15 SF	
			0
BUSINESS			
CIRCULATION	Not Placed	100 SF	
RESTROOM	Not Placed	100 SF	
RESTROOM	Not Placed	100 SF	
			0
			0
LEVEL 01-Z2			
ACCESSORY			
ELECTRICAL ROOM	305 SF	300 SF	2
FIRE RISER	115 SF	300 SF	1
IDF ROOM	153 SF	300 SF	1
MAIN UTILITY ROOM	547 SF	300 SF	2
MPOE ROOM	75 SF	300 SF	1
STORAGE	85 SF	300 SF	1
STORAGE	1290 SF	300 SF	5
UTILITY	133 SF	300 SF	1
UTILITY	144 SF	300 SF	1
			15
ASSEMBLY			
LOBBY	1474 SF	15 SF	99
MULTIPURPOSE ROOM	696 SF	15 SF	47
MULTIPURPOSE ROOM	1201 SF	15 SF	81
MULTIPURPOSE ROOM	1584 SF	15 SF	106
MULTIPURPOSE ROOM	2027 SF	15 SF	136
			469
COMMERCIAL KITCHEN			
WAREWASH	558 SF	200 SF	3
			3
LAB			
LABORATORY	1432 SF	100 SF	15
			15
OFFICE			
RECEPTION DESK	79 SF	100 SF	1
			1
WAREHOUSE			
WAREHOUSE	17885 SF	500 SF	36
			36
			539
LEVEL 01.9-Z2			
ACCESSORY			
MECHANICAL	357 SF	300 SF	2
MECHANICAL	864 SF	300 SF	3
MEZZANINE	2769 SF	300 SF	10
			15
			15
LEVEL 02-Z2			
ACCESSORY			
COLD ROOM	720 SF	300 SF	3
ELECTRICAL ROOM	106 SF	300 SF	1
IDF ROOM	563 SF	300 SF	2
STORAGE	218 SF	300 SF	1
STORAGE	304 SF	300 SF	2
UTILITY ROOM	124 SF	300 SF	1
			10
ASSEMBLY			
BREAK ROOM	571 SF	15 SF	39
ROOF DECK	2089 SF	7 SF	299
			338
BUSINESS			
WELLNESS ROOM	97 SF	100 SF	1
			1
LAB			
LABORATORY	623 SF	100 SF	7
LABORATORY	1208 SF	100 SF	13
LABORATORY	1252 SF	100 SF	13
LABORATORY	2264 SF	100 SF	23
LABORATORY	2398 SF	100 SF	24
LABORATORY	2422 SF	100 SF	25
LABORATORY	2762 SF	100 SF	28
LABORATORY	3018 SF	100 SF	31
			164
OFFICE			
OFFICE	1128 SF	100 SF	12
OFFICE	1576 SF	100 SF	16
			28
			541
LEVEL 03-Z2			
ACCESSORY			
COLD ROOM	995 SF	300 SF	4
ELECTRICAL ROOM	108 SF	300 SF	1
MDF/SERVER	777 SF	300 SF	3
STORAGE	79 SF	300 SF	1
STORAGE	845 SF	300 SF	3
UTILITY ROOM	126 SF	300 SF	1
			13
ASSEMBLY			
BREAK ROOM	357 SF	15 SF	24
CONFERENCE ROOM	318 SF	15 SF	22
			46
LAB			
LABORATORY	1524 SF	100 SF	16
LABORATORY	2421 SF	100 SF	25
LABORATORY	5150 SF	100 SF	52
LABORATORY	6144 SF	100 SF	62
			155
OFFICE			
OFFICE	659 SF	100 SF	7
OFFICE	1061 SF	100 SF	11
OFFICE	1124 SF	100 SF	12
WELLNESS ROOM	114 SF	100 SF	2
			32
			246
LEVEL 04-Z2			
ACCESSORY			
COLD ROOM	363 SF	300 SF	2
ELECTRICAL ROOM	108 SF	300 SF	1
IDF ROOM	409 SF	300 SF	2
UTILITY ROOM	127 SF	300 SF	1
			6
ASSEMBLY			
BREAK ROOM	330 SF	15 SF	23
			23
LAB			
LABORATORY	1210 SF	100 SF	13
LABORATORY	2640 SF	100 SF	27
LABORATORY	3358 SF	100 SF	34
LABORATORY	3897 SF	100 SF	39
LABORATORY	5186 SF	100 SF	52
			165
OFFICE			
OFFICE	1050 SF	100 SF	11
OFFICE	1232 SF	100 SF	13
OFFICE	1799 SF	100 SF	18
			42
			236
GRAND TOTAL			1577

0 8' 16' 32'
SCALE: 1/16" = 1'

N

A1 | **LEVEL 03 - EGRESS PLAN**
B3 / 2A-202 | 1/16" = 1'-0"

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MEANS OF EGRESS PLANS

Sheet No.
2G-103

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

AREA LEGEND

- ACCESSORY
- ASSEMBLY
- LAB
- OFFICE

EGRESS PLAN LEGEND

P.H. PANIC HARDWARE
P.P.
C.P.O.T. COMMON PATH OF TRAVEL

AREA NAME	
	### SF
FUNCTION OF SPACE:	FUNCTION →
OCCUPANT LOAD FACTOR:	### SF/ PERSON
OCCUPANT LOAD:	# PERSONS

FUNCTION OF SPACE PER CBC

1004.1.2 OF THE CURRENT CBC

PERSONS ALLOWED IN THE

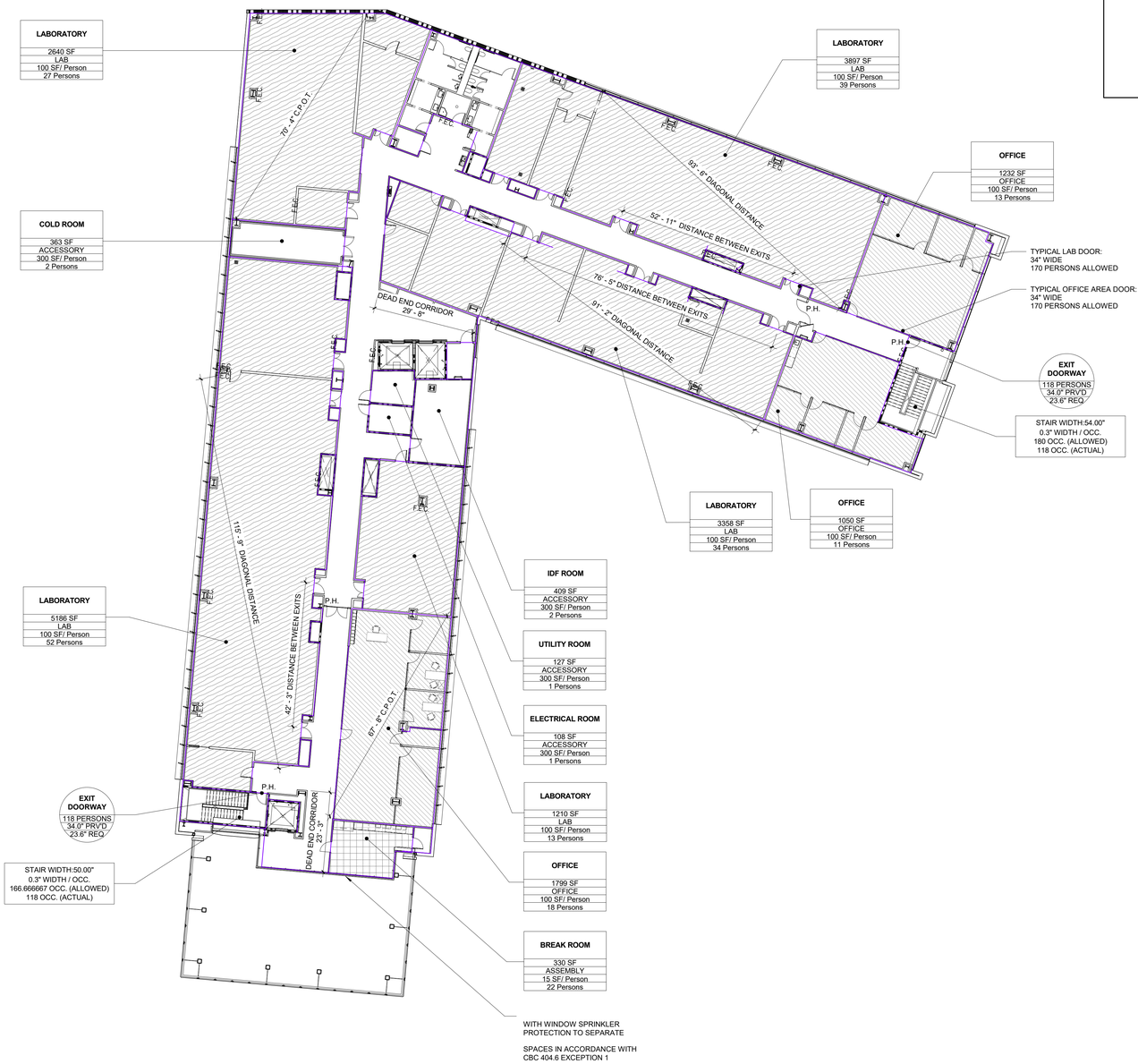
EXIT DOORWAY
PERSONS
XX PRV'D →
YY' REQ

TO USE THIS COMPONENT OF EGRESS

MEANS OF EGRESS WIDTH (@ 2" FOR THE DOOR THICKNESS PLUS STOP DIMENSION).

CALCULATED VALUE OF THE

MULTIPLIED BY THE MEANS OF EGRESS CAPACITY FACTOR IN



AREA SCHEDULE (EGRESS PLAN CALCS)

AREA NAME	AREA (SF)	AREA ALLOWANCE PER OCCUPANT (TABLE 1004.1.2)	CALCULATED LOAD
Not Placed			
ASSEMBLY			
SERVERY	Not Placed	15 SF	
			0
BUSINESS			
CIRCULATION	Not Placed	100 SF	
RESTROOM	Not Placed	100 SF	
RESTROOM	Not Placed	100 SF	
			0
			0
LEVEL 01-Z2			
ACCESSORY			
ELECTRICAL ROOM	305 SF	300 SF	2
FIRE RISER	115 SF	300 SF	1
IDF ROOM	153 SF	300 SF	1
MAIN UTILITY ROOM	547 SF	300 SF	2
MPOE ROOM	75 SF	300 SF	1
STORAGE	85 SF	300 SF	1
STORAGE	1290 SF	300 SF	5
UTILITY	133 SF	300 SF	1
UTILITY	144 SF	300 SF	1
			15
ASSEMBLY			
LOBBY	1474 SF	15 SF	99
MULTIPURPOSE ROOM	696 SF	15 SF	47
MULTIPURPOSE ROOM	1201 SF	15 SF	81
MULTIPURPOSE ROOM	1584 SF	15 SF	106
MULTIPURPOSE ROOM	2027 SF	15 SF	136
			469
COMMERCIAL KITCHEN			
WAREWASH	558 SF	200 SF	3
			3
LAB			
LABORATORY	1432 SF	100 SF	15
			15
OFFICE			
RECEPTION DESK	79 SF	100 SF	1
			1
WAREHOUSE			
WAREHOUSE	17885 SF	500 SF	36
			36
			539
LEVEL 01.9-Z2			
ACCESSORY			
MECHANICAL	357 SF	300 SF	2
MECHANICAL	864 SF	300 SF	3
MEZZANINE	2769 SF	300 SF	10
			15
			15
LEVEL 02-Z2			
ACCESSORY			
COLD ROOM	720 SF	300 SF	3
ELECTRICAL ROOM	106 SF	300 SF	1
IDF ROOM	563 SF	300 SF	2
STORAGE	218 SF	300 SF	1
STORAGE	304 SF	300 SF	2
UTILITY ROOM	124 SF	300 SF	1
			10
ASSEMBLY			
BREAK ROOM	571 SF	15 SF	39
ROOF DECK	2089 SF	7 SF	299
			338
BUSINESS			
WELLNESS ROOM	97 SF	100 SF	1
			1
LAB			
LABORATORY	623 SF	100 SF	7
LABORATORY	1208 SF	100 SF	13
LABORATORY	1252 SF	100 SF	13
LABORATORY	2264 SF	100 SF	23
LABORATORY	2398 SF	100 SF	24
LABORATORY	2422 SF	100 SF	25
LABORATORY	2762 SF	100 SF	28
LABORATORY	3018 SF	100 SF	31
			164
OFFICE			
OFFICE	1128 SF	100 SF	12
OFFICE	1576 SF	100 SF	16
			28
			541
LEVEL 03-Z2			
ACCESSORY			
COLD ROOM	995 SF	300 SF	4
ELECTRICAL ROOM	108 SF	300 SF	1
MDF/SERVER	777 SF	300 SF	3
STORAGE	79 SF	300 SF	1
STORAGE	845 SF	300 SF	3
UTILITY ROOM	126 SF	300 SF	1
			13
ASSEMBLY			
BREAK ROOM	357 SF	15 SF	24
CONFERENCE ROOM	318 SF	15 SF	22
			46
LAB			
LABORATORY	1524 SF	100 SF	16
LABORATORY	2421 SF	100 SF	25
LABORATORY	5150 SF	100 SF	52
LABORATORY	6144 SF	100 SF	62
			155
OFFICE			
OFFICE	659 SF	100 SF	7
OFFICE	1061 SF	100 SF	11
OFFICE	1124 SF	100 SF	12
WELLNESS ROOM	114 SF	100 SF	2
			32
			246
LEVEL 04-Z2			
ACCESSORY			
COLD ROOM	363 SF	300 SF	2
ELECTRICAL ROOM	108 SF	300 SF	1
IDF ROOM	409 SF	300 SF	2
UTILITY ROOM	127 SF	300 SF	1
			6
ASSEMBLY			
BREAK ROOM	330 SF	15 SF	23
			23
LAB			
LABORATORY	1210 SF	100 SF	13
LABORATORY	2640 SF	100 SF	27
LABORATORY	3358 SF	100 SF	34
LABORATORY	3897 SF	100 SF	39
LABORATORY	5186 SF	100 SF	52
			165
OFFICE			
OFFICE	1050 SF	100 SF	11
OFFICE	1232 SF	100 SF	13
OFFICE	1799 SF	100 SF	18
			42
			236
GRAND TOTAL			1577

0 8' 16' 32'
SCALE: 1/16" = 1'

N

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

MEANS OF EGRESS PLANS

Sheet No.

2G-104

A1 | **LEVEL 04 - EGRESS PLAN**

B3 / 2A-202 | 1/16" = 1'-0"

8/8/2017 10:50:01 AM

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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11/20/2017 3:07:15 PM
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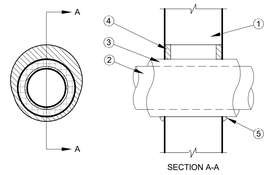
THE ARCHITECT.

UL/cUL SYSTEM NO. W-J-5041k
INSULATED METAL PIPE THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.

1. CONCRETE WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MIN. 3-3/4" THICK, FOR 1-HR. FIRE-RATING).
   B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MIN. 5" THICK, FOR 2-HR. FIRE-RATING).
   C. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 40 OR HEAVIER).
   B. MAXIMUM 2" NOMINAL DIAMETER COPPER PIPE OR COPPER TUBING.
3. MINIMUM 1/2" TO MAXIMUM 1" THICK ABIPVC FLEXIBLE FOAM PIPE INSULATION.
4. MINIMUM 5/8" DEPTH HIL TI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 7-1/2".
2. ANNULAR SPACE= MINIMUM 0", MAXIMUM 1-1/2".



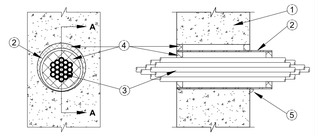
SECTION A-A

E1 INSULATED METAL PIPE THRU CONCRETE OR CMU WALL

1" = 1'-0"

UL/cUL SYSTEM NO. W-J-3060m
F-RATING = 1-HR. OR 2-HR.
CABLE BUNDLE THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY

1. CONCRETE WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MIN. 4-3/4" THICK, FORA 1-HR. FIRE-RATING).
   B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MIN. 6" THICK, FOR A 2-HR. FIRE-RATING). ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL ASSEMBLY
2. [OPTIONAL] MAXIMUM 4" NOMINAL DIAMETER EMT, STEEL PIPE (SCHEDULE 5 OR HEAVIER) OR 28 GA. GALVANIZED STEEL SLEEVE, CAST INTO WALL FLUSH WITH WALL SURFACES (SEE NOTE NO.5 BELOW).
3. CABLE BUNDLE TO CONSIST OF ANY COMBINATION OF THE FOLLOWING:
   A. MAXIMUM 71C NO. 12 AWG POWER CABLE WITH PVC JACKET.
   B. MAXIMUM 25 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   C. MAXIMUM RG 59 OR MAXIMUM RG 61U COAXIAL CABLE WITH PVC JACKET.
   D. MAXIMUM 31C NO.8 AWG METAL-CLAD CABLE.
   E. MAXIMUM 518 DIAMETER FIBER-OPTIC CABLE WITH PVC JACKET.
   F. MAXIMUM 4 PAIR NO. 22 AWG CAT 5 OR CAT 6 CABLE.
   G. ANY CABLES, METAL-CLAD OR ARMORED CABLE, CURRENTLY UL CLASSIFIED UNDER THE THROUGH PENETRANTS PRODUCTS CATEGORY.
4. MINIMUM 5/8" DEPTH HIL TI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, CP 606 FLEXIBLE FIRESTOP SEALANT, HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT, OR CP 618 FIRESTOP PUTTY STICK.
5. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, CP 606 FLEXIBLE FIRESTOP SEALANT, HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT, OR CP 618 FIRESTOP PUTTY STICK APPLIED AT WALUSLEEVE INTERFACE WHEN STEEL SLEEVE EXTENDS BEYOND ONE OR BOTH SIDES OF WALL.



SECTION A-A

NOTES:
1. MAXIMUM DIAMETER OF OPENING WITH SLEEVE= 5-1/2".
2. MAXIMUM DIAMETER OF OPENING WITHOUT SLEEVE = 4".
3. ANNULAR SPACE= MINIMUM 0", MAXIMUM 1".
4. CABLES TO FILL MAXIMUM 45% OF CROSS-SECTIONAL AREA OF OPENING.
5. WHEN SCHEDULE 5 STEEL PIPE OR EMT IS USED, SLEEVE MAY EXTEND UP TO 18" BEYOND WALL SURFACES. AS AN OPTION, SLEEVE MAY BE CONTINUOUS ON ONE SIDE OF WALL ASSEMBLY.
6. WHEN SLEEVE IS CONTINUOUS ON ONE SIDE OF WALL, THE CABLE FILL MAY BE 0% TO 45% AND THE MAXIMUM ANNULAR SPACE IS NOT LIMITED.
7. [OPTIONAL- NOT SHOWN] MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED AND RECESSED TO ACCOMMODATE FIRESTOP SEALANT OR PUTTY MAY BE USED AS BACKING MATERIAL.

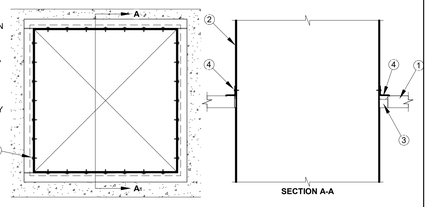
D1 CABLE BUNDLE THRU CONCRETE OR CMU WALL ASSEMBLY

1" = 1'-0"

UL/cUL SYSTEM NO. C-AJ-7111
METAL DUCT (WITHOUT DAMPER) THROUGH CONCRETE FLOOR/WALL ASSEMBLY RATING 2 HR

1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING): SECTION A-A
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 2-1/2" THICK).
   B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 3" THICK).
   C. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. MAXIMUM 30" X 30" RECTANGULAR STEEL DUCT (MINIMUM 24 GAUGE). (NOTE: NOT FOR USE IN DUCT SYSTEMS CONTAINING A DAMPER).
3. MINIMUM 2" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
4. MINIMUM 1/2" DEPTH HIL TI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. SEE NOTE NO.4 BELOW.

NOTES:
1. MAXIMUM SIZE OF OPENING = 32"x 32".
2. ANNULAR SPACE= MINIMUM 1/4", MAXIMUM 1-3/4".
3. MINIMUM 1/2" DEPTH HIL TI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT AND STEEL ANGLES ARE REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.
4. AFTER SEALING SPACE BETWEEN DUCT AND CONCRETE FLOOR/WALL ASSEMBLY WITH HILTI FS-ONE MAX OR FS-ONE, FASTEN STEEL ANGLE (L2x2x MIN.16 GA.) TO DUCT WITH NO.8 x 3/4" (OR LARGER) STEEL SHEET METAL SCREWS. ANGLE DOES NOT HAVE TO BE FASTENED TO CONCRETE FLOOR/WALL ASSEMBLY.



SECTION A-A

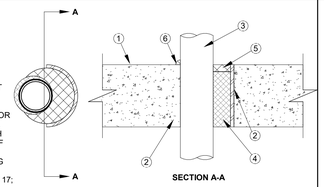
C1 METAL DUCT (WITHOUT DAMPER) THRU CONCRETE FLOOR/WALL

1" = 1'-0"

UL SYSTEM NO. C-AJ-2567f
PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL
F-RATING = 2-HR, T-RATING= 2-HR

1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING).
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
   B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 5" THICK).
   C. PRECAST (HOLLOW-CORE) CONCRETE FLOOR (MINIMUM 6" THICK).
   D. ANY UL CLASSIFIED CONCRETE BLOCK WALL.
2. [OPTIONAL] MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE SLEEVE (SCHEDULE 40 OR HEAVIER) MAY EXTEND MAXIMUM 3" ABOVE FLOOR, OR BOTH SIDES OF WALL.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE).
   B. MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE.
   C. MAXIMUM 2" NOMINAL DIAMETER RIGID NONMETALLIC CONDUIT (RNC).
   D. MAXIMUM 2" NOMINAL DIAMETER CROSS-LINKED POLYETHYLENE (PEX) TUBING (CLOSED PIPING SYSTEM ONLY).
4. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
5. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
6. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 4".
2. ANNULAR SPACE [WITH SLEEVE] = MINIMUM 1/4", MAXIMUM 1-3/8".
3. ANNULAR SPACE [WITHOUT SLEEVE] = MINIMUM 0", MAXIMUM 1-5/8".
4. WHEN HOLLOW-CORE FLOOR ARE USED, MINERAL WOOL MUST BE INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR.
5. CLOSED OR VENTED PIPING SYSTEM (PVC, RNC = SCHEDULE 40; CPVC = SDR 17; PEX = SDR 9).
6. WHEN HOLLOW-CORE FLOOR ARE USED, MINERAL WOOL MUST BE INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR.
7. FOR W-RATING, RECESS FS-ONE MAX OR FS-ONE 1/4" FROM TOP SURFACE OF FLOOR AND APPLY MINIMUM 1/4" DEPTH HILTI CP 604 SELF-LEVELING FIRESTOP SEALANT, HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT, OR HILTI CFS-S SIL SL FIRESTOP SILICONE SEALANT, FLUSH WITH TOP OF FLOOR. MINIMUM 3/16" ANNULAR SPACE IS REQUIRED TO OBTAIN W-RATING.



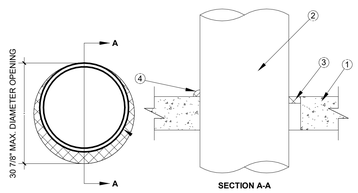
SECTION A-A

B1 PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL

1" = 1'-0"

SYSTEM NO. C-AJ-1291
METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL
F RATING — 2 HR, T-RATING 0-HR

1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN 2-1/2" THICK)
   B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATRING ITEM TO ONE OF THE FOLLOWING:
   A. MAXIMUM 30" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER)
   B. MAXIMUM 30" NOMINAL DIAMETER CAST IRON PIPE
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE
   D. MAXIMUM 6" NOMINAL DIAMETER COPPER TUBING
   E. MAXIMUM 4" NOMINAL DIAMETER EMT
3. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
4. MINIMUM 1/4" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.



SECTION A-A

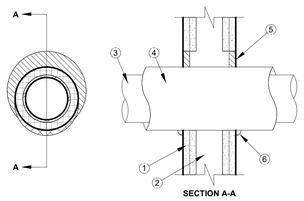
A1 METAL PIPE THRU CONCRETE FLOOR/WALL OR BLOCK WALL

1" = 1'-0"

UL/cUL SYSTEM NO. W-L-5028n
INSULATED METAL PIPE THROUGH GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.

1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 40 OR HEAVIER).
   B. MAXIMUM 2" NOMINAL DIAMETER COPPER PIPE OR TUBING.
4. MINIMUM 1/2" TO MAXIMUM 1" THICK ABIPVC FLEXIBLE FOAM PIPE INSULATION.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
6. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING= 7-1/2".
2. ANNULAR SPACE= MINIMUM 0", MAXIMUM 1-1/2".



SECTION A-A

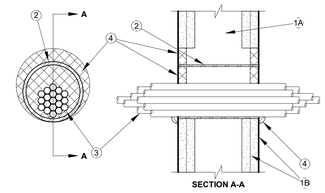
E3 INSULATED METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

1" = 1'-0"

UL/cUL SYSTEM NO. W-L-3065ab
CABLE BUNDLE THROUGHGYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.

1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, OR V400) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. [OPTIONAL] MAXIMUM 4" NOMINAL DIAMETER EMT, STEEL PIPE (SCHEDULE 5 OR HEAVIER) OR 28 GA. GALVANIZED STEEL SLEEVE (SEE NOTE NO.6 BELOW).
4. CABLE BUNDLE TO CONSIST OF ANY COMBINATION OF THE FOLLOWING (SEE NOTE.5 BELOW):
   A. MAXIMUM 7/C NO. 12 AWG POWER CABLE WITH PVC JACKET.
   B. MAXIMUM 25 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   C. MAXIMUM 1/2" DIAMETER RG/U COAXIAL CABLE WITH PVC JACKET.
   D. MAXIMUM 3/C NO.8 AWG METAL-CLAD CABLE.
   E. MAXIMUM 3/C (+GROUND) NO. 8 AWG COPPER CONDUCTOR CABLE (ROMEX).
   F. MAXIMUM 5/8" DIAMETER FIBER-OPTIC CABLE WITH PVC JACKET.
   G. MAXIMUM 3/4" DIAMETER COPPER GROUND CABLE WITH OR WITHOUT PVC JACKET.
   H. MAXIMUM 1-1/4" DIAMETER SINGLE OR MULTIPLE CONDUCTOR TYPE MI CABLE (SEE NOTE NO.4 BELOW).
   I. ANY CABLES, METAL-CLAD CABLES, OR ARMORED CABLES CURRENTLY LISTED UNDER THE THROUGH PENETRATING PRODUCTS CATEGORY.
   J. MAXIMUM 4/C (+GRND) NO. 300 KCMIL ALUMINUM SER CABLE.
   K. MAXIMUM 4 PAIR NO. 22 AWG CAT 5 OR CAT 6 CABLE.
   L. MAXIMUM RG 6/U COAXIAL CABLE WITH FLUORINATED ETHYLENE JACKET.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, CP 606 FLEXIBLE FIRESTOP SEALANT OR CP 618 FIRESTOP PUTTY STICK.
6. MINIMUM 1/2" BEAD HIL TI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, CP 606 FLEXIBLE FIRESTOP SEALANT OR CP 618 FIRESTOP PUTTY STICK APPLIED AT WALUSLEEVE INTERFACE WHEN STEEL SLEEVE EXTENDS BEYOND ONE OR BOTH SIDES OF WALL.

NOTES:
1. MAXIMUM DIAMETER OF OPENING WITH SLEEVE= 5-1/2".
2. MAXIMUM DIAMETER OF OPENING WITHOUT SLEEVE= 4".
3. ANNULAR SPACE= MINIMUM 0", MAXIMUM 1".
4. A MINIMUM 1/8" SEPARATION SHOULD BE MAINTAINED BETWEEN MI CABLES AND ANY OTHER TYPES OF CABLE.
5. CABLES TO FILL MAXIMUM 45% OF CROSS-SECTIONAL AREA OF OPENING.
6. WHEN SCHEDULE 5 STEEL PIPE OR EMT IS USED, OPEN ENDED SLEEVE MAY EXTEND UP TO 18" BEYOND WALL SURFACE. AS AN OPTION, SCHEDULE 5 STEEL PIPE OR EMT SLEEVE MAY EXTEND CONTINUOUSLY BEYOND ONE WALL SURFACE.
7. WHEN SLEEVE IS CONTINUOUS ON ONE SIDE OF WALL, THE CABLE FILL MAY BE 0% TO 45% AND THE MAXIMUM ANNULAR SPACE IS NOT LIMITED.
8. WHEN NO SLEEVE IS USED, CABLES MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.
9. [OPTIONAL- NOT SHOWN] MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED AND RECESSED TO ACCOMMODATE FIRESTOP SEALANT OR PUTTY MAY BE USED AS BACKING MATERIAL.



SECTION A-A

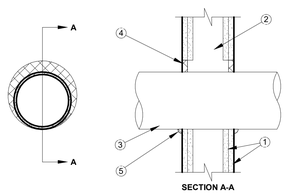
D3 CABLE BUNDLE THROUGH GYPSUM WALL ASSEMBLY

1" = 1'-0"

SYSTEM NO. W-L-1054
METAL PIPE THROUGH GYPSUM WALL ASSEMBLY
F RATINGS —1 AND 2 HR (SEE ITEMS 1 AND 3)

1. GYPSUM WALL ASSEMBLY — (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN)
2. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 30" DIAMETER STEEL PIPE — (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT
   E. MAXIMUM 4: NOMINAL DIAMETER EMT
4. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENINGS:
   32-1/4" FOR STEEL STUD WALLS
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/4"
3. PIPE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR.



SECTION A-A

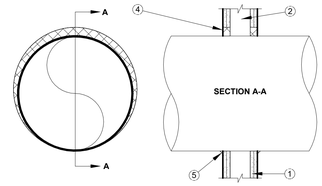
A3 METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

1" = 1'-0"

UL/cUL SYSTEM NO. W-L-7042e
F-RATING = 1-HR. OR 2-HR.
METAL DUCT (WITHOUT DAMPER) THROUGH GYPSUM WALL ASSEMBLY

1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 20" NOMINAL DIAMETER SPIRAL WOUND SHEET METAL DUCT (MIN. 24 GA.).
   B. MAXIMUM 12" NOMINAL DIAMETER SHEET METAL DUCT (MIN. 28 GAUGE).
4. HIL TI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT, OR HIL TI CP 606 FLEXIBLE FIRESTOP SEALANT.
   A. MINIMUM 5/8" DEPTH, FORA 1-HR. FIRE RATING.
   B. MAXIMUM 1-1/4" DEPTH, FOR A 2-HR. FIRE RATING.
5. MINIMUM 1/2" BEAD HIL TI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT OR 601S ELASTOMERIC FIRESTOP SEALANT, OR HIL TI CP 606 FLEXIBLE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING FOR STEEL STUD WALLS= 21-3/4".
2. MAXIMUM DIAMETER OF OPENING FOR WOOD STUD WALLS= 14-1/2".
3. ANNULAR SPACE= MINIMUM 0", MAXIMUM 1-1/2".



E5 METAL DUCT (WITHOUT DAMPER) THRU GYPSUM WALL ASSEMBLY

1" = 1'-0"

UL DESIGN NO. X638
TUBE COLUMNS FIRE RESISTANCE SYSTEM
ASSEMBLY RATING 1 OR 2 HR

1. STEEL COLUMN: STEEL TUBE COLUMNS WITH THE MINIMUM SIZES SHOWN IN THE TABLES FOR UL X638. COLUMNS SHALL BE FREE OF DIRT,LOOSE SCALE AND OIL AND PRIMED WITH A RED OXIDE PRIMER.
2. REINFORCING MESH- WHEN TOTAL COATING THICKNESS EXCEEDS 0.130 IN. GLASS FIBER MESH, 3/16 BY 3/16 IN. SQUARE PATTERN WEIGHING 147 G PER SQ. M. GLASS FIBER MESH TO BE APPKIED AT MID DEPTH OF COATING.
3. MASTIC AND INTUMESCENT COATING: COATING SPRAY APPLIED DIRECTLY FROM CONTAINERS TO DESIRED THICKNESS. SEE TABLE ON UL X638 FOR APPROPRIATE FINAL DRY THICKNESS. AFTER EACH COAT, THE SURFACE SHALL BE LIGHTLY ROLLED WITH A PAINT ROLLER.

NOTES:
1. REFER TO UL DESIGN X638 TABLE FOR REQUIRED THICKNESSES.
2. REFER TO UL DESIGN X638 TABLE FOR TUBE COLUMN SIZES.



C5 TUBE & PIPE COLUMNS F.R. SYSTEM-INTUMESCENT

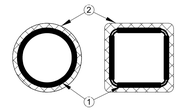
2.3

1" = 1'-0"

UL DESIGN NO. Y710
TUBE & PIPE COLUMNS FIRE RESISTANCE SYSTEM
ASSEMBLY RATING 1, 1 1/2, 2, 3, OR 4 HR

1. STEEL PIPE OR TUBE COLUMN; STEEL CIRCULAR PIPE (SP) OR STEEL SQUARE OR RECTANGULAR TUBE (ST). THE A/P RATIO OF THE STEEL PIPE OR TUBE SHALL RANGE FROM 0.18 TO 2.0.
2. SPRAY-APPLIED FIRE RESISITIVE MATERIALS; PREPARED BY MIXING WITH WATER ACCORDING TO INSTRUCTIONS AND APPLYING IN ONE OR MORE COATS TO THE THICKNESSES, TO STEEL SURFACES WHICH ARE CLEAN AND FREE OF DIRT, LOOSE SCALE, AND OIL. MIN AVG AND MIN IND DENSITY FOR TYPES MK-6/CBF, MK-6/ED, MK6/HY, MK-6HB, MK-6HB, MK-6S, MK-6 GF, MK-6 GF EXTENDED SET, MK-10 HB, MK-10 HB EXTENDED SET, MK-1000/HB, MK-01000/HB EXTENDED SET AND RG OF 15/14 PCF, RESPECTIVELY. MIN AVG AND MIN IND DENSITY FOR TYPES Z-106, Z-106/G, Z-106/HY OF 22/19 PCF, RESPECTIVELY.

NOTES:
1. REFER TO UL DESIGN Y710 TABLE FOR REQUIRED THICKNESSES.
2. PROVIDE INTUMESCENT PAINT AT ALL EXPOSED RATED MEMBERS.

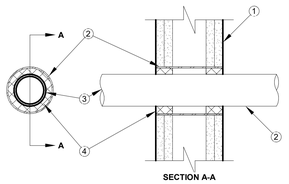


B3 PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY

1" = 1'-0"

UL SYSTEM NO. W-L-2128g
PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.

1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN),
2. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. [OPTIONAL] SHEET METAL PIPE SLEEVE (MAXIMUM 3-1/2" DIAMETER, MINIMUM 28 GA. THICKNESS, WITH MINIMUM 1-1/4" LAP ALONG LONGITUDINAL SEAM).
4. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (SCHEDULE 40) (CELLULAR OR SOLID CORE) (CLOSED OR VENTED PIPING SYSTEM).
   B. MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY).
5. HIL TI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT:
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.



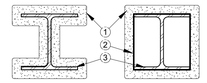
SECTION A-A

D3 PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY

1" = 1'-0"

UL DESIGN NO. X854
WIDE FLANGE COLUMNS FIRE RESISTANCE SYSTEM
ASSEMBLY RATING 1, 1 1/2, 2, 3, OR 4 HR
ALL PRIMARY STRUCTURAL MEMBERS SHALL BE 2 HR FIRE RATED ASSEMBLIES

1. SPRAY-APPLIED FIRE RESISITIVE MATERIALS; APPLIED BY MIXING WITH WATER AND SPRAYING IN MORE THAN ONE COAT TO STEEL SURFACES TO THE FINAL THICKNESS REQUIRED, REFER TO UL DESIGN X854 TABLE FOR REQUIRED THICKNESS. STEEL SURFACES MUST BE CLEAN AND FREE OF DIRT, LOOSE SCALE, AND OIL.
   A. MIN AVG AND MIN IND DENSITY OF 15/14 PCF RESPECTIVELY.
   B. MIN AVG AND MIN IND DENSITY OF 22/19 PCF RESPECTIVELY FOR TYPES Z-106, Z-106G AND Z-106/HY
   C. MIN AVG AND MIN IND DENSITY OF 40/36 PCF RESPECTIVELY FOR TYPES Z-146, Z-146PC AND Z-146T
   D. CEMENTITIOUS MIXTURE. MIN AVG AND MIN IND DENSITY OF 50/45 PCF RESPECTIVELY FOR TYPES Z-156, Z-156T AND Z-156PC. FOR METHOD OF DENSITY DETERMINATION, SEE UL DESIGN NO X854 DESIGN INFORMATION SECTION, SPRAYED MATERIAL.
2. METAL LATH (OPTIONAL FOR CONTOUR APPLICATION); 3.4 LB/SQ YD GALVANIZED EXPANDED OR PAINTED EXPANDED STEEL LATH. LATH SHALL BE LAPPED 1 IN. AND TIED TOGETHER WITH NO. 18 SWG GALVANIZED STEEL; WIRE SPACED VERTICALLY 6 IN. OC.
3. STEEL COLUMN; WIDE FLANGE STEEL COLUMNS 936 KSI YIELD). REFER TO STRUCTURAL FOR SIZE, LOCATION, ORIENTATION, AND STRUCTURAL REQUIREMENTS.



A3 WIDE FLANGE COLUMNS F.R. SYSTEM- SPRAY APPLIED

1" = 1'-0"

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

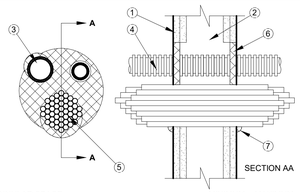
Sheet Title
FIRE RESISTANCE DETAILS

Sheet No.
2G-110

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

UL SYSTEM NO. W-L-8071c
MULTIPLE PENETRANTS THROUGH GYPSUM WALL ASSEMBLY (A)
F·RATING = 1-HR. OR 2-HR.

1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400 OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. STEEL STUDS TO BE MINIMUM 3-1/2" WIDE.
3. ONE OR MORE OF THE FOLLOWING PIPES, CONDUITS OR TUBES MAY BE INSTALLED WITHIN THE OPENING:
   A. MAXIMUM 2" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 2" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
   C. MAXIMUM 2" NOMINAL DIAMETER STEEL CONDUIT OR EMT.
   D. MAXIMUM 2" NOMINAL DIAMETER FLEXIBLE STEEL GAS PIPING (WITH OR WITHOUT PLASTIC COVERING) MANUFACTURED BY OMEGA FLEX, INC. OR WARD MFG., INC.
   E. MAXIMUM 1" NOMINAL DIAMETER FLEXIBLE STEEL GAS PIPING (WITH OR WITHOUT PLASTIC COVERING) MANUFACTURED BY GASTITE, DIVISION OF TITEFLEX.
4. MAXIMUM 2" NOMINAL DIAMETER ENT.
5. MAXIMUM 4" DIAMETER CABLE BUNDLE TO CONSIST OF ANY OF THE FOLLOWING:
   A. MAXIMUM 200 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   B. MAXIMUM 1/C NO. 500 KCMIL COPPER CONDUCTOR POWER CABLE WITH KLPE JACKET.
   C. MAXIMUM 3/C (+GROUND) NO. 2/0 AWG ALUMINUM CONDUCTOR SER CABLE WITH PVC JACKET.
   D. MAXIMUM 3/C NO.8 AWG COPPER CONDUCTOR METAL CLAD CABLE.
   E. MAXIMUM 4 PAIR NO. 24 AWG COPPER CONDUCTOR COMMUNICATION CABLE.
   F. MAXIMUM RG/U COAXIAL CABLE WITH PVC JACKET.
6. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
7. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.



SECTION AA

ANNULAR SPACE	MINIMUM	MAXIMUM
BETWEEN METALLIC PENETRANTS AND PERIPHERY OF OPENING	0"	2"
BETWEEN METALLIC PENETRANTS, ENT AND CABLES	½"	1-1/2"
BETWEEN ENT AND PERIPHERY OF OPENING	¼"	2"
BETWEEN CABLES AND PERIPHERY OF OPENING	0"	2"

NOTE: MAXIMUM DIAMETER OF OPENING= 8"

E1 MULTIPLE PENETRANTS THROUGH GYPSUM WALL ASSEMBLY (A)

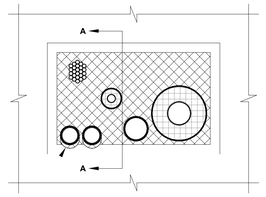
1" = 1'-0"

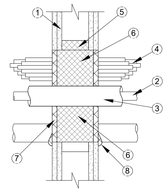
UL/cUL SYSTEM NO. W-L-8079d
MULTIPLE PENETRANTS THROUGH GYPSUM WALL ASSEMBLY (B)
F·RATING = 1-HR. OR 2-HR.

1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN) TO INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STEEL STUDS TO BE MINIMUM 3-1/2" WIDE (SPACED MAXIMUM 24" OC).
   B. NOMINAL 5/8" THICK GYPSUM WALLBOARD, TYPE, NUMBER OF LAYERS, AND SHEET ORIENTATION AS SPECIFIED IN THE INDIVIDUAL UL DESIGN.
2. ONE OR MORE OF THE FOLLOWING PIPES, AND IN ANY COMBINATION MAY BE INSTALLED WITHIN THE OPENING:
   A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCH 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
   C. MAXIMUM 3" NOMINAL DIAMETER COPPER PIPE OR TUBING.
   D. MAXIMUM 3" NOMINAL DIAMETER STEEL CONDUIT OR EMT.
   E. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (SCH 40, CELLULAR OR SOLID CORE) (VENTED OR CLOSED PIPING SYSTEM) (SEE NOTE NO. 5 BELOW).
   F. MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM) (SEE NOTE NO. 5 BELOW).
3. [OPTIONAL] ONE OR MORE METALLIC PIPES MAY BE INSULATED WITH THE FOLLOWING TYPES OF PIPE INSULATION:
   A. MINIMUM 1" TO MAXIMUM 2" THICK GLASS-FIBER PIPE INSULATION (3.5 PCF DENSITY).
   B. MINIMUM 1/2" TO MAXIMUM 3/4" THICK AB/PVC PIPE INSULATION.
4. ONE MAXIMUM 3" DIAMETER CABLE BUNDLE CONSISTING OF ANY OF THE FOLLOWING:
   A. MAXIMUM 25 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   B. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR POWER CABLE WITH PVC JACKET.
   C. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLE WITH PVC JACKET.
   D. MAXIMUM 3/C NO.8 AWG, WITH BARE ALUMINUM GROUND, STEEL METAL CLAD CABLE.
   E. MAXIMUM 3/C (WITH GROUND) NO.8 AWG NONMETALLIC SHEATHED CABLE (ROMEX) WITH PVC JACKET.
   F. MAXIMUM 1/2" DIAMETER RG/U COAXIAL CABLE WITH PVC JACKET.
   G. MAXIMUM 3/4" DIAMETER COPPER GROUND CABLE WITH OR WITHOUT PVC JACKET.
   H. MAXIMUM 1·1/4" DIAMETER SINGLE OR MULTI-CONDUCTOR MINERAL-INSULATED COPPER-CLAD CABLE.
5. MINIMUM 1·1/4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED AS A BACKER AROUND THE PERIMETER OF THE OPENING.
6. MINIMUM 3·1/2" OR 4-3/4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED FOR 1-HR. OR 2-HR. FIRE-RATING, RESPECTIVELY.
7. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
8. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:

1. WITH STEEL STUDS, MAXIMUM AREA OF SQUARE, RECTANGULAR, OR CIRCULAR OPENING IS 240 SQ. IN. WITH A MAXIMUM DIMENSION OF 20".
2. WITH WOOD STUDS, MAXIMUM AREA OF SQUARE, RECTANGULAR, OR CIRCULAR OPENING IS 210 SQ. IN. WITH A MAXIMUM DIMENSION OF 14-1/2".
3. ANNULAR SPACE BETWEEN PENETRANTS AND PERIPHERY OF OPENING = MINIMUM 0", MAXIMUM 22".
4. ANNULAR SPACE BETWEEN PENETRANTS= MINIMUM 1", MAXIMUM 22".
5. CLOSED PIPING SYSTEM ARE NOT APPLICABLE TO THE CANADIAN REQUIREMENTS.





SECTION A-A

C1 MULTIPLE PENETRANTS THROUGH GYPSUM WALL ASSEMBLY (B)

1" = 1'-0"

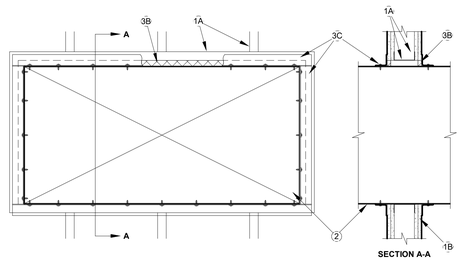
UL/cUL SYSTEM NO. W-L-7155e
SHEET METAL DUCT THROUGH GYPSUM WALL ASSEMBLY
F·RATING = 1-HR. OR 2-HR.

1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U400 OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. STEEL STUDS TO BE MINIMUM 3-1\2" WIDE. OPENING TO BE FRAMED OUT WITH STUD MATERIAL.
3. MAXIMUM 100" x 100" RECTANGULAR SHEET METAL DUCT (CONSTRUCTED AND REINFORCED IN ACCORDANCE WITH SMACNA CONSTRUCTION STANDARDS).
4. MINIMUM 518" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CP 606 FLEXIBLE FIRESTOP SEALANT, OR HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT.
5. [NOT SHOWN] MINIMUM 1\4" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CP 606 FLEXIBLE FIRESTOP SEALANT, OR HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT APPLIED AT POINT OF CONTACT, PRIOR TO ATTACHMENT OF STEEL ANGLE.
6. STEEL RETAINING ANGLE (SEE NOTE NO.3 AND TABLE BELOW).

MAXIMUM DUCT DIMENSION	DUCT THICKNESS	ANNULAR SPACE MIN.-MAX.	MINERAL WOOL REQUIRED	RETAINING ANGLE REQUIRED
24 IN.	24GA. (OR HEAVIER)	1/2" :1"	MIN. 3-3/4" THICKNESS FOR 1-HR MIN. 5" THK. FOR 2-HR	NO

NOTES:

1. MAXIMUM SIZE OF OPENING = 104" x 102".
2. ANNULAR SPACE= MINIMUM 0", MAXIMUM 2".
3. AFTER SEALING SPACE BETWEEN DUCT AND GYPSUM WALL ASSEMBLY WITH HILTI FIRESTOP SEALANT, FASTEN STEEL ANGLE (MIN. 18 GA. FOR DUCTS 48" x 24" OR SMALLER, OTHERWISE MIN.16 GA.) TO DUCT WITH MINIMUM NO.10 SHEET METAL SCREWS (SPACED MAXIMUM 1" FROM EACH END OF STEEL DUCT AND SPACED MAXIMUM 6" C/C). STEEL ANGLE TO OVERLAP DUCT BY MINIMUM 2" AND GYPSUM WALL ASSEMBLY BY MINIMUM 1". ANGLE DOES NOT HAVE TO BE FASTENED TO GYPSUM WALL ASSEMBLY.
4. [OPTIONAL] POLYETHYLENE BACKER ROD, MINERAL WOOL, OR GLASS-FIBER BATT INSULATION MAY BE USED AS BACKING MATERIAL FOR FIRESTOP SEALANT (EXCEPT WHERE REQUIRED IN TABLE ABOVE).



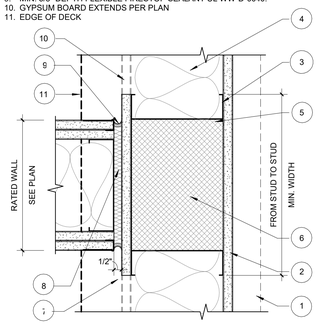
SECTION A-A

A1 SHEET METAL DUCT THROUGH GYPSUM WALL ASSEMBLY

1" = 1'-0"

OSHPD FIRE RESISTIVE STANDARDS DETAILS
RATED INTERIOR WALL TERMINATION @ EXTERIOR WALL
2013 CBC FIRE-RESISTIVE STANDARD DETAILS:
OPD-0091-13 :REVIEWED FOR CODE COMPLIANCE BY GARY DUNGER
ODN NO.: FR1.33

1. EXTERIOR WRB AND FINISH
2. EXTERIOR GRADE GYPSUM SHEATHING (MIN. 5/8")
3. METAL STUD FRAMING
4. FRICTION-FIT NON COMBUSTIBLE BATT INSULATION
5. FOIL FACE VOCATION
6. MINERAL WOOL TIGHT FIT WITH FOIL FACE ON ONE SIDE.
7. GYPSUM BOARD AT INTERIOR FACE OF EXTERIOR WALL EXTENDS VERTICALLY FROM FLOOR TO FLOOR AND HORIZONTALLY FROM STUD TO STUD MIN. AS NEEDED TO RECEIVE WIDTH OF INTERIOR RATED PARTITION WALL.
8. MINERAL WOOL
9. MIN. 5/8" DEPTH FLEXIBLE FIRESTOP SEALANT UL WW-D-0040.
10. GYPSUM BOARD EXTENDS PER PLAN
11. EDGE OF DECK

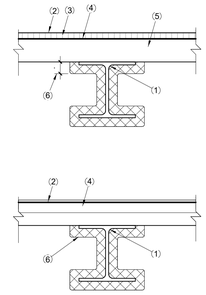


D3 RATED INT. TERMINATION PLAN @ EXT. WALLS

3" = 1'-0"

UL DESIGN NO. N782
BEAM PROTECTED ROOF SUBSTITUTION
ANSI/UL 263
FIRE RATING: 1, 1-1/2, 2, 3 or 4 HR

1. STEEL BEAM — W8X28 MIN SIZE.
2. ROOF COVERING* — CONSISTING OF HOT MOPPED, COLD APPLICATION OR SINGLE-PLY MATERIALS, COMPATIBLE WITH INSULATION(S) DESCRIBED HEREIN WHICH PROVIDE CLASS A, B OR C COVERINGS. SEE ROOFING MATERIALS AND SYSTEMS DIRECTORY-ROOF COVERING MATERIALS (TEVT).
3. ROOF INSULATION* — CONSISTING OF BUILDING UNITS, FOAMED PLASTIC OR MINERAL AND FIBER BOARDS, APPLIED IN ONE OR MORE LAYERS. WHEN MULTIPLE LAYERS ARE USED, END AND SIDE JOINTS SHALL BE OFFSET A MIN OF 12 IN. IN BOTH DIRECTIONS IN ORDER TO LAP ALL JOINTS. SEE CATEGORY FOR NAMES OF COMPANIES PROVIDING CLASSIFIED PRODUCTS — BUILDING UNITS (BZXX), FOAMED PLASTIC (CCVW) OR MINERAL AND FIBER BOARDS (CERZ), ROOF INSULATION SHALL BE COMPATIBLE WITH ROOF COVERING MATERIALS CLASS A, B OR C SYSTEM. SEE ROOFING MATERIALS AND SYSTEMS DIRECTORY-ROOF COVERING MATERIALS (TEVT).
4. ADHESIVE — (OPTIONAL) — MAY BE APPLIED TO STEEL ROOF DECK UNITS OR BETWEEN INSULATION LAYERS AT A MAX APPLICATION RATE OF 0.4 GAL/100 SQ FT. SEE ADHESIVES (BYWR) CATEGORY FOR NAMES OF MANUFACTURERS.
5. STEEL ROOF DECK — (UNCLASSIFIED) — FLUTED, NO. 22 MSG MIN GALV 1-1/2 IN. DEEP WITH 3-1/2 IN. WIDE FLUTES SPACED 6 IN. OC. ENDS OVERLAPPED A MIN 1-1/2 IN. AND WELDED TO SUPPORTS, 12 IN. OC MAX. ADJACENT UNITS BUTTON-PUNCHED, WELDED OR FASTENED WITH NO. 12 BY 1/2 IN. LONG SELF-DRILLING, SELF-TAPPING STEEL SCREWS.
6. SPRAY-APPLIED FIRE RESISTIVE MATERIALS* — APPLIED BY MIXING WITH WATER AND SPRAYING IN MORE THAN ONE COAT TO THE BEAM TO THE FINAL THICKNESSES, REFER TO UL DESIGN FOR TABLE. CREST AREAS SHALL BE FILLED WITH SPRAY-APPLIED FIRE RESISTIVE MATERIALS ABOVE THE BEAM. BEAM SURFACES MUST BE CLEAN AND FREE OF DIRT, LOOSE SCALE AND OIL. MIN AVERAGE AND MIN IND. DENSITY OF 15/14 PCF RESPECTIVELY. MIN AVG AND MIN IND DENSITY OF 22/19 PCF RESPECTIVELY FOR TYPES Z-106, Z-106/HY , Z-106/G. MIN AVG AND MIN IND DENSITY OF 40/36 PCF RESPECTIVELY FOR TYPES Z-146, Z-146PC AND Z-146T CEMENTITIOUS MIXTURE. MIN AVG AND MIN IND DENSITY OF 50/45 PCF RESPECTIVELY FOR TYPES Z-156, Z-156T AND Z-156PC. FOR METHOD OF DENSITY DETERMINATION, SEE DESIGN INFORMATION SECTION.
7. METAL LATH (NOT SHOWN) — METAL LATH SHALL BE USED WHEN APPLYING TYPE Z-146, Z-146T, Z146PC, Z-156, Z-156T AND Z-156PC MATERIAL TO THE UNDERSIDE OF THE STEEL DECK. THE METAL LATH SHALL BE 3/8 IN. EXPANDED DIAMOND MESH, WEIGHING 1.7 LB PER SQ YD. SECURED TO UNDERSIDE OF STEEL DECK WITH NO. 12 BY 3/8 IN. PAN HEAD SELF-DRILLING, SELF-TAPPING STEEL SCREWS AND STEEL WASHERS WITH AN OUTSIDE DIAM OF 1/2 IN. SCREWS SPACED 12 IN. OC IN BOTH DIRECTIONS WITH LATH EDGES OVERLAPPED APPROXIMATELY 3 IN.

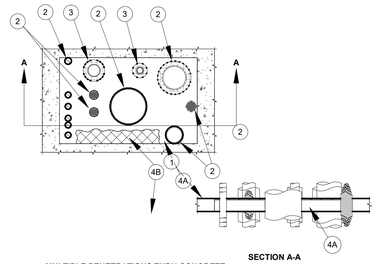


D4 BEAM PROTECTED ROOF SUBSTITUTION

1" = 1'-0"

UL/cUL SYSTEM NO. C-AJ-8143
MULTIPLE PENETRATIONS
F-RATING = 2-HR.

1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
   B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 5" THICK).
   C. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. ONE OR MORE OF THE FOLLOWING PENETRATING ITEMS (ITEMS 2-7) AND IN ANY COMBINATION MAY BE INSTALLED WITHIN THE OPENING:
   A. MAXIMUM 24" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 40 OR HEAVIER).
   B. MAXIMUM 24" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. [OPTIONAL] ANY OR ALL PIPES (8" OR SMALLER) MAY BE INSULATED WITH MAXIMUM 1-1/2" THICK GLASS-FIBER PIPE INSULATION.
4. [OPTIONAL] ANY OR ALL PIPES (2" OR SMALLER) MAY BE INSULATED WITH MAXIMUM 2" THICK GLASS-FIBER PIPE INSULATION OR MAXIMUM 1" THICK AB/PVC PIPE INSULATION.
5. MAXIMUM 4" NOMINAL DIAMETER CABLE BUNDLE OR INDIVIDUAL CABLE TO CONSIST OF ANY OF THE FOLLOWING:
   A. MAXIMUM 500 KCMIL SINGLE COPPER OR ALUMINUM CONDUCTOR POWER CABLE WITH PVC JACKET.
   B. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   C. MAXIMUM 7/C NO. 12 AWG POWER CABLE WITH PVC JACKET.
   D. MAXIMUM 1/2" DIAMETER FIBER OPTIC CABLE WITH PVC JACKET.
   E. MAXIMUM 3/C NO. 12 AWG STEEL CLAD CABLE.
6. MAXIMUM 3/C NO. 2/0 AWG COPPER CONDUCTOR PVC JACKETED ALUMINUM OR STEEL CLAD, TECK 90 CABLE.
7. MAXIMUM 4/C NO. 750 KCMIL ALUMINUM OR COPPER CONDUCTOR WITH ALUMINUM OR STEEL CLAD, WITH OR WITHOUT PVC JACKET.
8. MAXIMUM 24" x 6" ALUMINUM OR STEEL OPEN LADDER CABLE TRAY (MAX. QTY. = 1). ANY COMBINATION OF THE TYPES AND SIZE OF CABLES DESCRIBED IN ITEM NO. 5 ABOVE MAY BE USED. CABLES TO FILL MAXIMUM 40% CROSS-SECTIONAL AREA OF TRAY AND HAVE A MAXIMUM 3" CABLE LOADING DEPTH.
9. MINIMUM 4" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) TIGHTLY PACKED.
10. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.



SECTION A-A

MULTIPLE PENETRATIONS THRU CONCRETE FLOOR/WALL OR BLOCK WALL

ANNULAR SPACE	*MINIMUM*	*MAXIMUM*
BETWEEN INDIVIDUAL CABLES AND CABLE BUNDLES	½"	12"
BETWEEN INDIVIDUAL CABLES AND CABLE BUNDLES	½"	12"
BETWEEN INDIVIDUAL/BUNDLES CABLES AND OTHER PENETRANTS	½"	12"
-EXCEPTION : BETWEEN INDIVIDUAL/BUNDLED CABLES AND COPPER PIPES GREATER THAN 3", STEEL PIPE, IRON PIPE, AND CONDUITS GREATER THAN 4	2"	12"
BETWEEN INSULATED PIPES	2"	12"
BETWEEN METALLIC PIPES	2"	12"
- EXCEPTION 1) BETWEEN 3" AND SMALLER COPPER PIPE	½"	12"
-EXCEPTION 2) BETWEEN 2" AND SMALLER STEEL PIPES AND CONDUITS	0"	12"
-EXCEPTION 3) BETWEEN 4" AND SMALLER STEEL PIPES AND CONDUITS	½"	12"
BETWEEN INSULATED PIPES OR CABLE TRAY AND PERIPHERY OF OPENING	½"	12"
BETWEEN ALL OTHER PENETRANTS AND PERIPHERY OF OPENING	0"	12"
BETWEEN CABLE TRAY AND ALL OTHER PENETRANTS	3"	12"

NOTES:
1. *MAXIMUM DIAMETER OF OPENING = 48" x 30".*
2. *MINIMUM 1/2" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.*

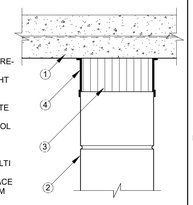
A4 MULTIPLE PENETRATIONS

1 1/2" = 1'-0"

SYSTEM NO. HW-D-1058b
RATED JOINT THOUGH CONCRETE OR CMU WALL
ASSEMBLY RATING — 3 HR

1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR ASSEMBLY (MINIMUM 4-1/2" THICK) (3-HR FIRE-RATING).
2. CONCRETE WALL ASSEMBLY (3-HR FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 8" THICK)
   B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL ASSEMBLY
3. MINIMUM 8" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) COMPRESSED 50%
4. MINIMUM 1/8" (WET) THICKNESS HILTI CFS_SP FIRESTOP JOINT SPRAY O HILTI CP 672 SPEED SPRAY APPLIED WITHIN THE JOINT, FLUSH WITH EACH SURFACE OF WALL AND OVERLAPPING MINIMUM ½" ONTO FLOOR AND WALL ON BOTH SIDES OF JOINT.

NOTE: MAXIMUM WIDTH OF JOINT = ¾"



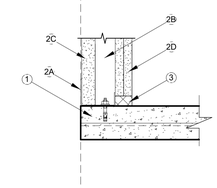
E6 RATED JOINT THRU CONCRETE OR CMU WALL

1" = 1'-0"

UL/cUL SYSTEM NO. BW-S-0023b
BOTTOM OF WALL JOINT GYPSUM SHAFT WALL
ASSEMBLY RATING = 1-HR. OR 2-HR.

1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR ASSEMBLY (MINIMUM 2-1/2" THICK) (1-HR. OR 2-HR. FIRE-RATING).
2. GYPSUM SHAFT WALL ASSEMBLY (UL/cUL CLASSIFIED U400 OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN) TO INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. "J" SHAPED CEILING RUNNER, MINIMUM 2-1/2" WIDE WITH LEGS OF 1-1/4" AND 2" (MINIMUM 24 GA.) FASTENED TO TOP SIDE OF CONCRETE FLOOR WITH STEEL FASTENERS AT LOCATION NOT GREATER THAN 2" FROM ENDS AND MAXIMUM 24" O.C.
   B. "C-H" SHAPED STUDS (MINIMUM 2-1/2" WIDE, MINIMUM 25 GA.) CUT 3/8" TO 1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT.
   C. NOMINAL 1" THICK GYPSUM LINER PANEL, TYPE AND SHEET ORIENTATION AS SPECIFIED IN THE INDIVIDUAL UL/cUL DESIGN.
   D. NOMINAL 1/2" OR 5/8" THICK GYPSUM WALLBOARD, TYPE, NUMBER OF LAYERS, AND SHEET ORIENTATION AS SPECIFIED IN THE INDIVIDUAL UL/cUL DESIGN.
3. HILTI CP 606 FLEXIBLE FIRESTOP SEALANT INSTALLED THE FULL DEPTH OF GYPSUM BOARD AND FLUSH WITH THE FINISH SIDE OF WALL.

NOTE: MAXIMUM WIDTH OF JOINT = 1".

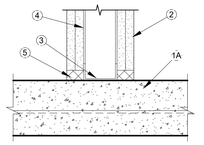


C6 BOTTOM OF WALL JOINT GYPSUM SHAFT WALL

1" = 1'-0"

UL/cUL SYSTEM NO. BWS-0001e
ASSEMBLY RATING = 1-HR. OR 2-HR. (DEPENDING ON RATING OF WALL AND FLOOR ASSEMBLY)

1. CONCRETE FLOOR ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR ASSEMBLY (MIN. 4-1/2" THICK).
2. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U400 SERIES WALL) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
3. FLOOR RUNNER (MIN. 25 GA., 1-1/4" FLANGES) FASTENED TO TOP SURFACE OF CONCRETE FLOOR.
4. STEEL STUDS (MIN. 2-1/2" WIDE), NESTING IN AND RESTING ON FLOOR RUNNER.
5. HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT, CP 606 FLEXIBLE FIRESTOP SEALANT, FS-ONE MAXOR FS-ONE INTUMESCENT FIRESTOP SEALANT, OR CFS-S SIL GG FIRESTOP SILICONE SEALANT:
   A. MINIMUM 5/8" DEPTH ON BOTH SIDES OF WALL, FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH ON BOTH SIDES OF WALL, FOR A 2-HR. FIRE-RATING.



A6 BOTTOM OF WALL JOINT GYPSUM WALL ASSEMBLY

1" = 1'-0"

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

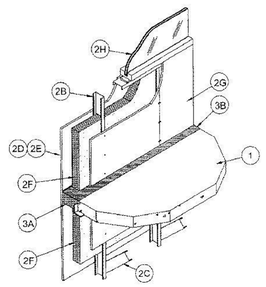
FIRE RESISTANCE DETAILS

Sheet No.

2G-111

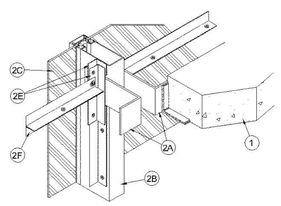
SYSTEM NO. CW-S-1002
XHDG - PERIMETER FIRE-CONTAINMENT SYSTEMS
FIRE RATING: 2 HR

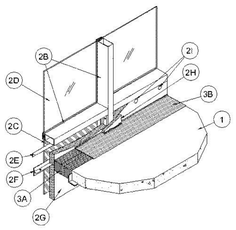
1. Floor Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) structural concrete. Perimeter of floor assembly to be provided with min 3 by 3 by 1/4 in. thick cast-in-place structural steel angle for weld-attachment of mounting angles (Item 2A).
2. Curtain Wall Assembly — The curtain wall assembly shall incorporate the following construction features:
   A. Mounting Angles — (Not Shown) - Min 3 in. long angles with one nom 4 in. leg for attachment to edge of floor assembly and with one leg approx 2-1/2 to 3 in. longer than distance to interior face of steel studs. Angles to be formed of min 1/8 in. thick steel. Angles welded to cast-in-place structural steel angle at edge of floor assembly (Item 1) on one side of each steel stud (Item 2B) at each floor level. Top edge of each mounting angle to be recessed 1 to 1-1/2 in. below top surface of floor.
   B. Steel Studs — C-shaped studs formed from min 0.034 in. thick (20 ga) galv steel. The steel studs shall be 3-1/2 in. to 6 in. wide by 1-1/4 in. deep with 5/16 in. wide stiffening flanges and shall be assembled using runner channels formed from min 0.034 in. thick galv steel. Studs spaced max 24 in. OC and welded, bolted or screwed to mounting angles (Item 2A) at each floor level. When cementitious backer units (Item 2E) are used for exterior sheathing, max stud spacing is 16 in. OC. Interior face of studs to be max 2-1/2 in. from edge of floor assembly.
   C. Steel Struts — Short lengths of steel stud (Item 2B) used to brace each steel stud against lateral movement. One end of strut bolted, screwed or welded to steel stud beneath plane of floor assembly. Opposite end of strut anchored to underside of floor.
   D. Gypsum Board* — One layer of nom 5/8 in. thick, 48 in. wide gypsum sheathing installed to cover entire exterior surface of wall. Sheathing applied with joints centered over studs and secured to steel studs with min 1 in. long bugle head steel screws spaced max 8 in. OC along the edges and max 12 in. OC in the field of each sheet. See Gypsum Board (CKNX) category for names of Classified Companies and product types.
   E. Cementitious Backer Units* — As an alternate to the gypsum sheathing (Item 2D), nom 1/2 in. or 5/8 in. thick square-edge boards attached to studs with 1-1/4 in. long corrosion resistant self-tapping wafer-head steel screws spaced 6 in OC. Joints covered with glass fiber mesh tape. UNITED STATES GYPSUM CO — Type DCB
   F. Curtain Wall Insulation* — Min 3 in. thick mineral wool batt insulation, unfaced or faced on one side with aluminum foil/scrim vapor retarder, supplied in nom 16 in. or 24 in. wide batts to accommodate spacing of steel studs. Insulation batts installed to completely fill all stud cavities of curtain wall above the top of the fill material (Item 3B) and below the forming material (Item 3A). Insulation batts to be friction-fitted between studs with adjoining lengths of batt tightly butted. THERMAFIBER INC — FIRESPAN 90
   G. Gypsum Board* — One layer of nom 5/8 in. thick, 48 in. wide gypsum board applied with joints centered over studs. Gypsum board secured to steel studs on interior surface of curtain wall with min 1 in. long bugle head steel screws spaced max 8 in. OC along the edges and max 12 in. OC in the field of each sheet. Gypsum board installed to cover interior surface of wall above the top of the fill material (Item 3B) and below the forming material (Item 3A). See Gypsum Board (CKNX) category for names of Classified Companies and product types.
   H. Framed Window — Metal-framed window with nom 1/4 in. thick heat-strengthened glass. Sill of window to be min 34 in. above top of floor slab. Top of window to be min 33 in. below bottom of floor slab.
   I. Siding, Brick or Stucco — (Not Shown)—Aluminum siding, steel siding, brick veneer or stucco installed over gypsum sheathing or cementitious backer units and meeting the requirements of local code agencies. Brick veneer wall attached to studs with corrugated metal wall ties attached to each stud with steel screws.
3. Safing System — The safing system shall incorporate the following construction features:
   A. Forming Material* — Nom 4 pcf density mineral wool batt insulation. Batt sections to be cut to a min 4 in. width. and stacked to a thickness which is 25 percent greater than the width of linear gap between the gypsum sheathing and the edge of the concrete floor to attain a min 20 percent compression in the thickness direction. The forming material is compressed and inserted cut-edge-first into linear gap between edge of floor slab and sheathing material such that its top surface is flush with the top surface of the floor assembly. Length of batt to be equal to on-center spacing of steel studs such that it is friction-fitted between studs and mounting angles without seams. Additional pieces of mineral wool batt to be stuffed inside the channel of each steel stud throughout the thickness of the forming material. THERMAFIBER INC — SAF
   B. Fill, Void or Cavity Material* — Min 1/8 in. wet thickness (min 1/16 in. dry) of fill material spray-applied over top of forming material and lapping min 1/2 in. onto the top surface of the floor and onto the gypsum sheathing and steel studs. SPECIFIED TECHNOLOGIES INC — SpecSeal AS200 Elastomeric Spray or SpecSeal Fast Tack Spray



D1 PERIMETER CONTAINMENT: METAL PANEL

12" = 1'-0"





SYSTEM NO. CW-D-2042
XHDG - PERIMETER FIRE-CONTAINMENT SYSTEMS
FIRE RATING: 2 HR

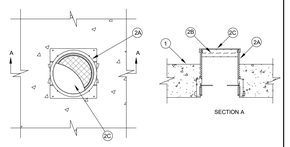
1. Floor Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Perimeter of floor assembly to be provided with min 3 by 3 by 1/4 in. (76 by 76 by 6 mm) thick cast-in-place structural steel angle for weld-attachment of mullion mounting clips (Item 2A).
2. Curtain Wall Assembly — The curtain wall assembly shall incorporate the following construction features:
   A. Mullion Mounting Clips — Min 4 in. (102 mm) long angles with one nom 4 in. (102 mm) leg for attachment to edge of floor assembly and with one leg approx 4 in. (102 mm) longer than distance to nearest face of mullion. Clips to be formed of min 1/4 in. (6 mm) thick steel. Clips welded to steel angle at edge of floor assembly (Item 1) on each side of vertical mullion (Item 2B) at each floor level. Each clip to be provided with elongated holes to accommodate designed amount of movement. Top edge of each clip to be recessed min 1/2 in. (13 mm) below top surface of floor.
   B. Framing — The rectangular tubing mullions (vertical members) and transoms (horizontal members) shall be min 2-1/2 in. (64 mm) wide by 5 in. (127 mm) deep and shall be formed from min 0.085 in. (2.2 mm) thick aluminum. Mullions spaced max 60 in. (152 cm) OC and secured to mullion mounting clips (Item 2A) at each floor level with two 3/8-16 by 4 in. (102 mm) long hex head steel bolts in conjunction with Steel nuts and washers. Interior face of mullions to be max 8 in. (204 mm) from edge of floor assembly. Transoms to be spaced min 36 in. (91 cm) OC. The minimum height from the top of the floor to the bottom of the vision panel sill is 6 in. (152 mm).
   C. Spandrel Panels — The spandrel panels shall consist of one of the following types:
      a. Glass Panels — Nom 1/4 in. (6 mm) thick opaque heat-strengthened glass or nom 1 in. (25 mm) thick insulated glass units with two layers of nom 1/4 in. (6 mm) thick heat-strengthened glass separated by a 1/2 in. (25 mm) air space. Each panel secured in position with aluminum pressure plates in conjunction with glazing gaskets and steel screws.
      b. Aluminum Panels — Nom 1/8 in. (3 mm) thick aluminum panels with 1/4 in. (6 mm) thick edges. Each panel secured in position with aluminum pressure plates in conjunction with gaskets and steel screws.
      c. Stone Panels — Nom 1-3/16 in. (46 mm) thick polished granite spandrel panels with 1 in. (25 mm) thick gauged edges. Each panel secured in position with aluminum pressure plates in conjunction with gaskets and steel screws.
   D. Vision Panels — Nom 1/4 in. (6 mm) thick transparent heat-strengthened glass or nom 1 in. (25 mm) thick insulated glass units with two layers of nom 1/4 in. (6 mm) thick transparent heat-strengthened glass separated by a 1/2 in. (25 mm) air space. Each panel secured in position with aluminum pressure plates in conjunction with glazing gaskets and steel screws.
   E. Spandrel Panel Perimeter Angles — Nom 1-1/2 by 1-1/2 in. (38 by 38 mm) No. 22 gauge (0.031 in. or 0.79 mm thick) galvanized steel angles installed around entire perimeter of each spandrel panel. Angles recessed from interior face of framing as necessary to accommodate thickness of curtain wall insulation (Item 2G). Angles cut to be discontinuous at mullion mounting clips (Item 2A). Angles screw-attached to mullions and transom along sides and top of each spandrel panel with No. 8 by 1 in. (25 mm) long self-drilling, self-tapping steel screws spaced max 12 in. (305 mm) OC. Angle along bottom of each spandrel panel to be screw-attached to leg of angle on mullion at each end without any direct attachment to transom. At mullion mounting clips, a length of steel angle shall be installed to bridge between the perimeter angles over the mullion mounting clip. The "bridge" shall be cut approx 6 in. (152 mm) longer than the clear space between angles and shall be secured to the perimeter angles with one No. 8 by 1 in. (25 mm) long steel screw at each end.
   F. Stiffener Tee — Two nom 1-1/2 by 1-1/2 in. (38 by 38 mm) No. 20 gauge (0.038 in. or 0.97 mm thick) galv steel angles secured together, back-to-back, to form stiffener tee for installation in each horizontal seam of the curtain wall insulation (Item 2G). The angle legs forming the stem of the tee shall be secured together using No. 8 by 1/2 in. (13 mm) long self-drilling, self-tapping steel screws spaced max 8 in. (204 mm) OC. The tee shall be installed with a clearance of 1/8 to 1/4 in. (3 to 6 mm) at each end and shall be screw-attached to the spandrel panel perimeter angles (Item 2E) with No. 10 by 3/4 in. (19 mm) long self-drilling, self-tapping steel screws, with steel washers, through two predrilled 1/4 in. (6 mm) diam holes at each end. One stiffener tee shall be located with its stem at an elevation 2 in. (51 mm) below the top plane of the floor at each floor level.
   G. Curtain Wall Insulation* — Min 2 in. (51 mm) thick mineral wool batt insulation, unfaced or faced on one side with aluminum foil/scrim vapor retarder, supplied in min 36 in. (914 cm) wide batts. Insulation batts to be installed with no vertical seams. Insulation panels tightly-fitted between vertical mullions and between the stem of the stiffener tee (Item 2F) and the transom, flush with the interior surface of framing. Insulation panels secured to spandrel panel perimeter angles with cup head weld pins (Item 2I) or 2-1/2 in. (64 mm) long steel screws with min 1-1/2 in. (38 mm) diameter galv steel clinch shields spaced max 12 in. (305 mm) OC. The horizontal seam between insulation panels shall be located 2 in. (51 mm) below the top plane of the floor at each floor level. THERMAFIBER INC — FIRESPAN 90
   H. Framing Covers — Curtain Wall Insulation* — Min 8 in. (204 mm) wide strips cut from the same min 2 in. (51 mm) thick mineral wool batt insulation used for the curtain wall insulation (Item 2G). Framing covers to be centered over mullions and secured to the spandrel panel perimeter angles with cup head weld pins (Item 2I) or 4-1/2 in. (114 mm) long steel screws with min 1-1/2 in. (38 mm) diameter galv steel clinch shields spaced max 12 in. (305 mm) OC. Where more than one spandrel panel (Item 2C) occurs between vertically separated vision panels, the horizontal transom between spandrel panels shall also be covered with an 8 in. (204 mm) wide framing cover in the same manner as on the vertical mullions. Framing covers on mullions to abut the mineral wool batt safing material (Item 3A) above and below floor. THERMAFIBER INC — FIRESPAN 90
   I. Weld Pin — In lieu of steel screws, No. 12 gauge (2 mm diam) galv steel weld pin with nom 1-3/16 in. (30 mm) diam galv steel cup head. Cup head weld pins provided in two lengths. One length to be equal to thickness of curtain wall insulation (Item 2G) and second length to be equal to thickness of curtain wall insulation plus thickness of framing cover (Item 2H). Cup head weld pins inserted through curtain wall insulation and mullion covers and welded to spandrel panel perimeter angles max 12 in. (305 mm) OC.
   J. Light Gauge Framing* — Spiral Anchor — (Not Shown) — As an alternate to the weld pins (Item 2I), galv steel wire spiral anchors may be used to secure the framing covers (Item 2H) to the curtain wall insulation (Item 2G) on each side of the mullion. Nom length of spiral anchors to be equal to thickness of curtain wall insulation plus thickness of framing cover. Spiral anchors driven through mullion covers and into curtain wall insulation and spaced max 12 in. OC. THERMAFIBER INC
3. Safing System — Max separation between edge of floor assembly and face of framing members (at time of installation) is 8 in. (204 mm). The safing system is designed to accommodate vertical shear movement up to a max of 5 percent of its installed width. The safing system shall incorporate the following construction features:
   A. Forming Material* — Nom 4 pcf (64 kg/m3) density mineral wool batt insulation. Batt sections cut to a min 4 in. (102 mm) width and stacked to a thickness which is min 25 percent greater than the width of linear gap between the curtain wall insulation and the edge of the concrete floor slab. The stacked forming material is compressed 20 percent in the thickness direction and inserted cut-edge-first into the linear gap such that its top surface is flush with the top surface of the floor assembly. A max of one tightly-butted seam is permitted between mullions. Additional pieces of forming material to be friction-fit into spaces between mullion mounting clips at each mullion location. THERMAFIBER INC — SAF
   B. Fill, Void or Cavity Material* — Min 1/8 in. (3 mm) wet thickness (min 1/16 in. or 1.6 mm dry thickness) of fill material spray-applied over top of forming material and lapping min 1/2 in. (13 mm) onto the top surface of the floor and onto the curtain wall insulation and framing covers. When SpecSeal Fast Tack Spray is used, wet and dry thickness of spray is min 5/64 in. (2 mm). SPECIFIED TECHNOLOGIES INC — SpecSeal AS200 Elastomeric Spray or SpecSeal Fast Tack Spray

A1 PERIMETER CONTAINMENT CURTAIN WALL

12" = 1'-0"

SYSTEM NO. F-A-0014
FLOOR DRAIN
FIRE RATING: 3 HR

1. FLOOR ASSEMBLY — MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE.
   A. STEEL FLOOR UNIT/ FLOOR ASSEMBLY — (NOT SHOWN)- AS AN ALTERNATE TO ITEM 1, THE FLOOR ASSEMBLY MAY CONSIST OF A FLUTED STEEL FLOOR UNIT/ CONCRETE FLOOR ASSEMBLY. THE FLOOR ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL D900 SERIES DESIGNS IN THE FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
      a. STEEL FLOOR AND FORM UNITS* — COMPOSITE OR NON-COMPOSITE 1-1/2 IN. TO 3 IN. (38 TO 76 MM) DEEP FLUTED GALV STEEL UNITS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN.
      b. CONCRETE — MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE, AS MEASURED FROM THE TOP PLANE OF THE FLOOR UNITS.
2. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FIRESTOP DEVICE* — CAST IN PLACE FIRESTOP DEVICE PERMANENTLY EMBEDDED DURING CONCRETE PLACEMENT OR GROUTED IN CONCRETE ASSEMBLY IN ACCORDANCE WITH ACCOMPANYING INSTALLATION INSTRUCTIONS WITH A MAX 2 IN. (51 MM) PROJECTION ABOVE THE TOP SURFACE OF THE FLOOR. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 680-110/4"N, CP 682-110/4", CP680 -75/2.5"N, CP 682-75/2.5", CP 680-M 2", CP 680-M 3", CP 680-M 4", CP 680-P 2", CP 680-P 3", CP 680-P 4"
   B. PACKING MATERIAL — MIN 1 IN. (25 MM) THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED WITHIN THE TOP OF DEVICE (ITEM 2A), FLUSH WITH THE TOP SURFACE OF THE DEVICE.
   C. FIRESTOP DEVICE* - FIRESTOP DEVICE CAP — FOR CP 680N AND 682 DEVICES, PLASTIC CAP SCREWED TO FIRESTOP DEVICE IN THREE PLACES WITH 3/8 IN. LONG SCREWS. THE CP 680-M AND -P DEVICES ARE PROVIDED WITH A PLASTIC CAP THAT IS THREADED ONTO TOP OF DEVICE.



SECTION A

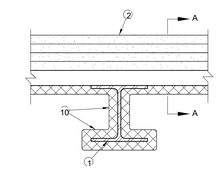
E3 FLOOR DRAIN

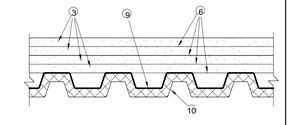
1 1/2" = 1'-0"

UL DESIGN NO. P732
PROTECTED ROOF / CEILING FIRE RESISTANCE SYSTEM
FIRE RESISTANCE RATINGS - ANSI/UL 263
FIRE RATING: 1, 1-1/2, 2 or 3 HR

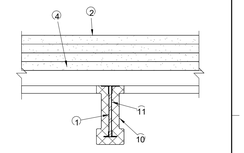
NOTE: REFER TO UL DESIGN NO. P732 FOR ALL REQUIRED PRODUCT THICKNESSES. REFER TO DESIGN P372 FOR ACCEPTABLE ALTERNATE OR ADDITIONAL METHODS, MATERIALS, AND PRODUCTS.

1. BEAM; MIN W6X16 OR W8X28 OR STEEL JOIST — 10K1 OR 16K2 MIN SIZE WITH A MAX TENSILE STRESS OF 30,000 PSI OR 12K3 OR 12K5 MIN SIZE WITH A MAX TENSILE STRESS OF 24,000 PSI.
2. ROOF COVERING; HOT MOPPED OR COLD APPLICATION BITUMINOUS MATERIALS COMPATIBLE WITH THE INSULATION(S) DESCRIBED HEREIN WHICH PROVIDE CLASS A, B OR C COVERINGS. SEE ROOFING MATERIALS AND SYSTEMS DIRECTORY — ROOF COVERING MATERIALS (TEVT).
3. ROOF INSULATION — FOAMED PLASTIC — POLYISOCYANURATE FOAMED PLASTIC INSULATION BOARDS NOM 48 BY 48 OR 96 IN., TO BE APPLIED IN ONE OR MORE LAYERS PER UL DESIGN. BOARDS TO BE INSTALLED WITH END JOINTS STAGGERED A MIN OF 6 IN. MIN THICKNESS SHALL BE SELECTED FROM THE TABLE BELOW. NO LIMIT ON MAX OVERALL THICKNESS.
4. GYPSUM BOARD (NOT SHOWN); (CLASSIFIED OR UNCLASSIFIED) — MAY BE USED TO OBTAIN VARIOUS RESTRAINED OR UNRESTRAINED ASSEMBLY RATINGS AS DESCRIBED IN ITEM 10. SUPPLIED IN SHEETS NOM 4 BY 8 OR 12 FT BY 5/8 IN. THICK. MIN WEIGHT 2.2 PSF. APPLIED PERPENDICULAR TO STEEL ROOF DECK DIRECTION WITH END JOINTS STAGGERED 2 FT IN ADJACENT ROWS. END JOINTS TO OCCUR OVER CRESTS OF STEEL ROOF UNITS.
5. VAPOR RETARDER SHEATHING MATERIAL* (OPTIONAL, NOT SHOWN) , VINYL FILM OR PAPER SCRIM VAPOR BARRIER, APPLIED TO STEEL ROOF DECK OR GYPSUM WALLBOARD WITH ADHESIVE (ITEM 6), HOT ASPHALT (ITEM 7) OR LAID LOOSELY, OVERLAPPED APPROX 2 IN. ON ADJACENT SHEETS.
6. ADHESIVE (OPTIONAL); THE VAPOR RETARDER, THE GYPSUM WALLBOARD OR THE FIRST LAYER OF ROOF INSULATION MAY BE SECURED WITH ADHESIVE TO THE STEEL CREST SURFACES. ALSO USED TO ATTACH THE VAPOR RETARDER TO GYPSUM WALLBOARD, THE FIRST LAYER OF INSULATION TO VAPOR RETARDER OR GYPSUM WALLBOARD AND EACH ADDITIONAL LAYER OF INSULATION. APPLIED IN 1/2 IN. WIDE RIBBONS 6 IN. OC AT 0.4 GAL/100 SQ FT.
7. ASPHALT OR COAL TAR PITCH (OPTIONAL, NOT SHOWN); THE VAPOR RETARDER, THE GYPSUM WALLBOARD OF THE FIRST LAYER OF ROOF INSULATION MAY BE SECURED WITH ASPHALT OR COAL TAR PITCH TO THE STEEL CREST SURFACES AT A MAX RATE OF 15 LB/100 SQ FT. ALSO USED TO ATTACH THE VAPOR RETARDER TO GYPSUM WALLBOARD, THE FIRST LAYER OF INSULATION TO VAPOR RETARDER OR GYPSUM WALLBOARD AND EACH ADDITIONAL LAYER OF ROOF INSULATION, APPLIED AT A MAX RATE OF 25 LB/100 SQ FT.
8. MECHANICAL FASTENERS — (OPTIONAL) — (NOT SHOWN) — MECHANICAL SCREW-TYPE FASTENER WITH METAL OR PLASTIC WASHER DESIGNED FOR THE PURPOSE MAY BE USED TO ATTACH ONE OR MORE LAYERS OF INSULATION TO STEEL ROOF DECK.
9. STEEL ROOF DECK (UNCLASSIFIED); MIN 1-1/2 IN. DEEP AND 36 IN. WIDE GALV FLUTED STEEL DECK, MIN GAUGE IS NO. 22 MSG. ENDS OVERLAPPED AT SUPPORTS A MIN 1-1/2 IN. AND WELDED TO SUPPORTS 12 IN. OC AND AT SIDE LAPS. SIDE LAPS FASTENED WITH 1/2 IN. LONG HEX HEAD, SELF-DRILLING, SELF-TAPPING STEEL SCREWS SPACED A MAX OF 36 IN. OC. CLASSIFIED STEEL FLOOR AND FORM UNITS NONCOMPOSITE 1-1/2 TO 3 IN. DEEP, 24 TO 36 IN. WIDE, MIN 22 MSG GALVANIZED STEEL FLUTED UNITS. ENDS OVERLAPPED AT SUPPORTS A MIN 1-1/2 IN. AND WELDED TO SUPPORTS 12 IN. OC AND AT SIDE LAPS. SIDE LAPS FASTENED WITH 3/4 IN. LONG NO. 12 SELF-DRILLING, SELF-TAPPING STEEL SCREWS AT 36 IN. OC. AS ALTERNATE TO SCREW FASTENERS ADJACENT UNITS MAY BE BUTTON-PUNCHED OR WELDED TOGETHER 36 IN. OC ALONG SIDE JOINTS. ASC STEEL DECK, DIV OF ASC PROFILES I, L C — TYPES BH-36, BHN-36, BHN-35-1/4, DGB-36, B-36, BN-36, BN-35-1/4, NH-32, NHN-32, DGN-32, N-32 AND NN-32. ALL UNITS MAY BE GALVANIZED OR PRIME SHIELD™. NON-CELLULAR DECKS MAY BE VENTED DESIGNATED WITH A "V" SUFFIX TO THE PRODUCT NAME.
   A. NOTE: TYPE Z-106 SPRAY-APPLIED FIRE RESISTIVE MATERIALS TO BE USED WITH GALV STEEL ROOF UNITS ONLY.
10. SPRAY-APPLIED RESISTIVE MATERIAL; APPLIED BY MIXING WITH WATER AND SPRAYING IN MORE THAN ONE COAT TO FINAL THICKNESSES TO STEEL SURFACES WHICH MUST BE CLEAN AND FREE OF DIRT, LOOSE SCALE AND OIL. STEEL DECK SURFACE MUST BE "SPATTER" COATED WITH TYPE SK-3 SPRAY-APPLIED FIRE RESISTIVE MATERIALS PRIOR TO APPLICATION OF SPRAY-APPLIED RESISTIVE MATERIAL. TYPE SK-3 SPRAY-APPLIED RESISTIVE MATERIAL APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S APPLICATION INSTRUCTIONS, WHEN STEEL DECK IS USED THE AREA BETWEEN THE STEEL DECK AND THE BEAMS TOP FLANGE SHALL BE FILLED. MIN AVERAGE AND MIN INDIVIDUAL DENSITY OF 15/14 PCF, RESPECTIVELY. THICKNESS OF THE SPATTER COAT IS INCLUDED IN THE TOTAL FINAL THICKNESS OF THE PROTECTION MATERIAL.
11. NONMETALLIC FABRIC MESH (OPTIONAL); AS AN ALTERNATE TO THE OPTIONAL USE OF METAL LATH, GLASS FIBER FABRIC MESH, WEIGHING APPROX 2.5 OZ/SQ YD, POLYPROPYLENE FABRIC MESH, WEIGHING APPROX 1.25 OZ/SQ YD OR EQUIVALENT, MAY BE USED TO FACILITATE THE SPRAY APPLICATION. THE MESH IS SECURED TO ONE SIDE OF EACH JOIST WEB MEMBER. THE METHOD OF ATTACHING THE MESH MUST BE SUFFICIENT TO HOLD THE MESH AND THE SPRAY APPLIED SPRAY-APPLIED FIRE RESISTIVE MATERIALS MATERIAL IN PLACE DURING APPLICATION UNTIL IT HAS CURED. AN ACCEPTABLE METHOD TO ATTACH THE MESH IS BY EMBEDDING THE MESH IN MIN 1/4 IN. LONG BEADS OF HOT MELTED GLUE. THE BEADS OF GLUE SHALL BE SPACED A MAX OF 12 IN. OC ALONG THE TOP CHORD OF THE BAR JOIST. ANOTHER METHOD TO SECURE THE MESH IS BY 1-1/4 IN. LONG BY 1/2 IN. WIDE HAIRPIN CLIPS FORMED FROM NO. 18 SWG OR HEAVIER STEEL WIRE. THE METHOD OF ATTACHING THE MESH MUST BE SUFFICIENT TO HOLD THE MESH AND THE SPRAY APPLIED SPRAY-APPLIED FIRE RESISTIVE MATERIALS MATERIAL IN PLACE DURING APPLICATION UNTIL IT HAS CURED. AN ACCEPTABLE METHOD TO ATTACH THE MESH IS BY EMBEDDING THE MESH IN MIN 1/4 IN. LONG BEADS OF HOT MELTED GLUE. THE BEADS OF GLUE SHALL BE SPACED A MAX OF 12 IN. OC ALONG THE TOP CHORD OF THE BAR JOIST ANOTHER METHOD TO SECURE THE MESH IS BY 1-1/4 IN. LONG BY 1/2 IN. WIDE HAIRPIN CLIPS FORMED FROM NO. 18 SWG OR HEAVIER STEEL WIRE.
   A. METAL LATH — (NOT SHOWN) — (REQUIRED WITH ITEM 10B, OTHERWISE OPTIONAL) — METAL LATH SHALL BE 3/8 IN. EXPANDED DIAMOND MESH, WEIGHING 2.5 LB PER SQ YD. SECURED TO UNDERSIDE OF STEEL DECK WITH NO. 12 BY 3/8 IN. PAN HEAD SELF-DRILLING, SELF-TAPPING SCREWS AND STEEL WASHERS WITH AN OUTSIDE DIAM OF 1/2 IN. SCREWS SPACED 12 IN. OC IN BOTH DIRECTIONS WITH LATH EDGES OVERLAPPED APPROX 3 IN.
   B. METAL LATH — (NOT SHOWN) — (REQUIRED ON BOTH SIDES OF JOISTS WITH Z-146, Z-146T, Z146PC, Z-156, Z-156T AND Z-156PC, OTHERWISE OPTIONAL) — METAL LATH MAY BE USED TO FACILITATE THE SPRAY APPLICATION OF SPRAY-APPLIED FIRE RESISTIVE MATERIALS ON STEEL BAR JOISTS AND TRUSSES. THE DIAMOND MESH, 3/8 IN. EXPANDED STEEL LATH, 1.7 TO 3.4 LB/SQ YD IS SECURED TO ONE SIDE OF EACH STEEL JOIST WITH NO. 18 SWG GALV STEEL WIRE AT JOIST WEB AND BOTTOM CHORD MEMBERS SPACED 15 IN. OC MAX. WHEN USED, THE METAL LATH IS TO BE FULLY COVERED WITH SPRAY-APPLIED FIRE RESISTIVE MATERIALS WITH NO MIN THICKNESS REQUIREMENTS.

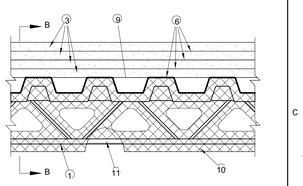




SECTION A-A



SECTION B-B



C4 PROTECTED ROOF / CEILING F.R. SYSTEM

1" = 1'-0"

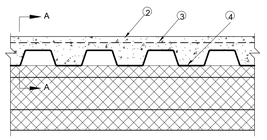
DESIGN NO. D902

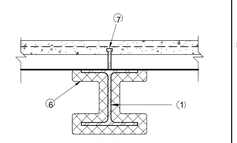
UNRESTRAINED ASSEMBLY RATING — 0,1, 1-1/2, 2, or 3 HRS
UNRESTRAINED BEAM RATINGS — 1, 1-1/2, 2, AND 3 HRS

1. BEAM - W12X14M W8X28, OR W6X12, MIN. SIZE, SEE ITEMS 6A THROUGH 6E2.
2. NORMAL WEIGHT OR LIGHTWEIGHT CONCRETE — NORMAL WEIGHT CONCRETE CARBONATE OR SILICEOUS AGGREGATE, 3500 PSI COMPRESSIVE STRENGTH, VIBRATED. LIGHTWEIGHT CONCRETE, EXPANDED SHALE, OR SLATE AGGREGATE BY ROTARY-KILN METHOD, OR EXPANDED CLAY AGGREGATE BY ROTARY-KILN OR SINTERED-GRATE METHOD, 3000 PSI COMPRESSIVE STRENGTH, VIBRATED, 4 TO 7 PERCENT ENTRAINED AIR.
3. WELDED WIRE FABRIC — 6 X 6, 10 X 10 SWG.
4. STEEL FLOOR OR FORM UNITS* — COMPOSITE 1-1/2, 2, OR 3 IN. DEEP GALV UNITS. FLUTED UNITS MAY BE PHOS/PTD. MIN GAUGES ARE 22 MSG FOR FLUTED AND 20/20 FOR CELLULAR AND PARTIAL CELLULAR UNITS. THE FOLLOWING COMBINATIONS OF UNITS MAY BE USED:
   1. ALL 24, 36 IN WIDE CELLUAR OR PARTIAL CELLUAR.
   2. ALL FLUTED
   3. ONE OR TWO 3 IN. DEEP, 12 IN. WIDE, 18/18 MSG MIN CELLULAR ALTERNATING WITH 3 IN. DEEP FLUTED OR OTHER CELLULAR.
   4. ANY BLEND OF FLUTED AND 24 OR 36 IN. WIDE CELLULAR OR PARTIAL CELLULAR.

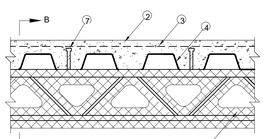
5. JOINT COVER: (USE WITH FLUTED UNITS OPTIONAL- NOT SHOWN) 2 IN. WIDE CLOTH ADHESIVE TAPE APPLIED FOLLOWING THE CONTOUR OF THE UNITS.
6. SPRAY-APPLIED FIRE RESISTIVE MATERIALS — APPLIED BY SPRAYING WITH WATER, IN ONE COAT TO A FINAL THICKNESS AS SHOWN IN ADJOVE AND IN TABLE TO STEEL BEAM SURFACE WHICH IS FREE OF DIRT, OIL OR SCALE. WHEN FLUTED STEEL DECK IS USED AND THE FIRE PROTECTION THICKNESS SELECTED IS BASED ON ALL FLUTED DECK, THE AREA BETWEEN THE STEEL DECK AND THE TOP FLANGE OF THE STEEL BEAM SHALL BE FILLED. WHEN FLUTED STEEL DECK IS USED AND THE STEEL BEAM IS SPRAYED WITH THE THICKNESSES APPLICABLE TO CELLULAR OR BLENDED UNITS, THE ARES BETWEEN THE STEEL DECK AND THE TOP FLANGE OF HTE STEEL BEAM SHALL BE PLUGGED. USE OF ADHESIVE IS OPTIONAL. MIN AVE UNTAMPED DENSITY IS 13 PSF WITH MIN IND UNTAMPED DENSITY OF 11 PCF FOR TYPES II OR DC/F. MIN AVE AND MIN IND UNTAMPED DENSITIES OF 22 AND 19 PCF, RESPECTIVELY, FOR TYPE HP. TAMPING IS OPTIONAL. FOR METHOD OF DENSITY DETERMINATION, REFER TO DESIGN INFORMATION SECTION. THE THICKNESS OF THE SPRAY-APPLIED FIRE RESISITIVE MATERIALS ON THE STRUCTURAL MEMBERS (ITEM 1) SHALL BE PER THE TABLE.
7. SHEAR CONNECTOR STUDS- OPTIONAL- STUDS 3/4 IN. DIAM BY 3 IN. LONG, FOR 1-1/2 IN EEP FORM UNITS TO 5-1/4 IN. LONG FOR 3 IN. DEEP FORM UNITS, HEADED TYPE OR EQUIVALENT PER AISC SPECIFICATIONS. WELDED TO THE TOP FLANGE OF THE BEAM THROUGH THE STEEL FORM UNITS.
8. LATH HANGER- NOT SHOWN- GALV. STEEL 6 SWG MIN DIAM SPACED 27 IN. O.C.
9. CLIPS- NOT SHOWN NO. 24 MSG SPRING STEEL PUSHED ON TO TOP AND BOTTOM FLANGES OF BEAM SPACED 6 IN. O.C. MAX.
10. METAL LATH- NOT SHOWN, 3/8 IN. DIAMOND MESH OR RIB LATH, 3.4 LBS PER SQ YD EXPANDED STEEL ATTACHED TO BEAM WITH CLIPS SPACED 6 IN. OC MAX; OR TIED TO LATH HANGERS WIT H18 SWG GALV STEEL WIRE SPACED 6 IN. OC MAX.
11. ELECTRICAL INSERTS- NOT SHOWN, CLASSIFIED AS "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE".

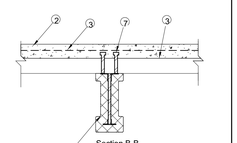
NOTE: REFER TO UL DESIGN D902 FOR TABLES, PRODUCTS AND ADDITIONAL INFORMATION





Section A-A





Section B-B

A4 PROTECTED FLOOR / CEILING F.R. SYSTEM

1" = 1'-0"

2.3

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
B 2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
FIRE RESISTANCE DETAILS

Sheet No.
2G-112

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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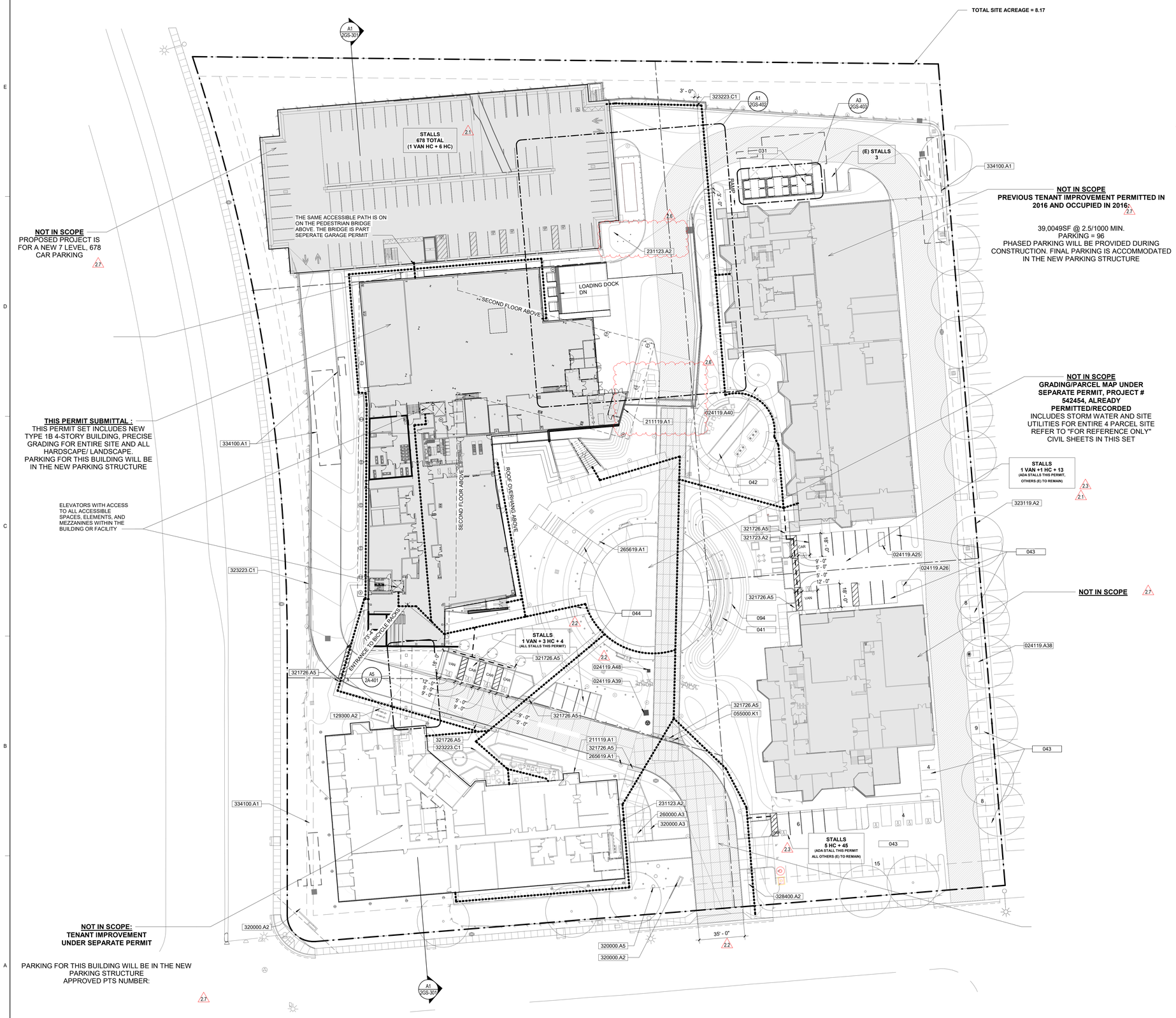

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS
2. AT HAZARDOUS VEHICULAR AREAS, DETECTABLE WARNING SURFACES SHALL BE YELLOW CONFORMING TO FS 33538 OF FEDERAL STANDARD 595C
3. AT LOCATIONS OTHER THAN VEHICULAR HAZARDOUS AREAS, DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE.
4. ONLY APPROVED DSA-AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, CHAPTER 5, ARTICLE 2, 3 AND 4." (CBC, SEC. 11B-705.3)

PARKING TABULATION

-05G

R&D USE:

1450 VETERANS BLVD
EXISTING 8989 BUILDING: 23,000 SF
PARKING RATIO: 2.5/1000 R&D=
23,000/1000 X 2.5= 58 SPACES (56 STANDARD STALLS, 1 VAN ACCESSIBLE, 1 ACCESSIBLE)

EXISTING PARKING:
72 EXISTING STALLS (68 STANDARD, 4 ACCESSIBLE PARKING STALLS

NEWGENE THEORY CAMPUS
NEW BUILDING: 142,481 SF
EXISTING 8988 RENOVATION: 46,038 SF
EXISTING1450 VETERANS BLVD (PHASE 1) 39,049 SF
TOTAL: 227,568 SF

PARKING RATIO: 2.5/1000 (R&D PER SDMC)
227,568/1000 X 2.5 = 569 STALLS REQUIRED PER SDMC.
686 PROVIDED

ACCESSIBLE PARKING SPACES REQUIRED PER CBC 11B-208.2:
= 2% OF TOTAL PROVIDED PARKING 686
= 14 STALLS REQUIRED

PROVIDED PARKING:
686 (672 STANDARD STALLS, 3 VAN ACCESSIBLE, 11 ACCESSIBLE)

ALL REQUIRED ELECTRICAL CHARGING SPACES, MOTORCYCLE SPACES, BICYCLE STORAGE ARE IN THE PARKING STRUCTURE

PER CBC SECTION 11B-812 AND TABLE11B-228.3.2.1, WE HAVE PROVIDED 1 STANDARD ACCESSIBLE, 1 VAN ACCESSIBLE AND 1 AMBULATORY EVCS SPACES IN THE PARKING STRUCTURE. THESE DESIGNATED ACCESSIBLE PARKING SPACES ARE IN ADDITION TO THE 14 MIN. REQUIRED AS NOTED ABOVE.

PARKING GARAGE WITH CLEAN AIR/CAR POOL/VAN PARKING, EV STALLS, AND LONG TERM BICYCLE PARKING PART OF A SEPARATE PERMIT REFER TO PTS# 553565

CLEAN AIR/CAR POOL/VAN POOL VEHICLE PARKING REQUIRED: 689X.08 = 55 STALLS
PROVIDED: 55 STALLS

EV STALLS REQUIRED 678 X .06 = 41
PROVIDED = 41 + 3 DESIGNATED EV CHARGING ONLY STALLS = 44
INCLUDING 3 ACCESSIBLE (VAN, STANDARD, AMULATORY) EV STALLS

LONG TERM BICYCLE PARKING REQUIRED: 689 X .05 = 34
PROVIDED: 34

VISITOR PARKING = 11 SPACES
REQUIRED SHORT-TERM BICYCLE PARKING = 11 X.05= 1 BIKE PARKING, PROVIDING 10

LEGAL DESCRIPTION

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
024119.A25	EXISTING 8959 GENERATOR
024119.A26	EXISTING 8959 & 8929 TRANSFORMER
024119.A38	EXISTING 8929 TRASH ENCLOSURE TO REMAIN
024119.A39	EXISTING AT&T PEDESTAL & MANHOLE TO REMAIN, PROTECT IN PLACE
024119.A40	EXISTING CONCRETE PLANTER & TREE TO REMAIN
024119.A48	EXISTING SDG&E VAULT TO REMAIN, PROTECT IN PLACE
055000.K1	STEEL BOLLARDS - REMOVABLE
129300.A1	BOLLARD
129300.A2	SHORT TERM BICYCLE STORAGE, SEE LANDSCAPE
211119.A1	NEW FIRE DEPARTMENT CONNECTION
231123.A2	GAS METER, SEE PLUMBING
260000.A3	NEW TRANSFORMER, SEE ELECTRICAL
265619.A1	LED EXTERIOR LIGHTING, SEE ELECTRICAL
320000.A2	NEW C.I.P. MONUMENT SIGNWALL, SEE LANDSCAPE
320000.A3	WOOD SCREEN WALL, SEE LANDSCAPE
320000.A5	FLAG POLE (3 EACH) - SEE LANDSCAPE SET
321723.A2	NEW STRIPING FOR PARKING
321726.A5	36" WIDE TACTILE WARNING SURFACING, SEE LANDSCAPE FOR DETAILS
323119.A2	NEW BI-PARTING ROLLING GATE WITH PAD LOCK
323223.C1	NEW CONCRETE OR CMU RETAINING WALLS, SEE CIVIL & STRUCTURAL UNDER SEPARATE PERMIT
328400.A2	RECLAIMED WATER IRRIGATION CONTROLLER
334100.A1	NEW UNDERGROUND STORMWATER STRUCTURES, SEE CIVIL

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
031	TRASH & RECYCLE BINS
041	NEW BENCH STAIRS, SEE LANDSCAPE
042	NEW BOCCE BALL COURT, SEE LANDSCAPE
043	PARKING EXISTING TO REMAIN, NOT IN SCOPE
044	PEDESTRIAN BRIDGE, SEE LANDSCAPE
094	NEW TRELLIS UNDER SEPARATE PERMIT

LEGEND

- PROPERTY LINE
- BUILDING - SEE DESCRIPTION
- ACCESSIBLE PATH OF TRAVEL TO RIGHT OF WAY
- ACCESSIBLE PATH OF TRAVEL TO BUILDING

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4
2.7	01.17.18	ASI 2.5 ADDRESS REVISION

IFC 11.20.17

Sheet Title
SITE PLAN

Sheet No.
2GS-101

A1 | **SITE-OVERALL**

D1 / 2A-203 | 1" = 30'-0"

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

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A1 SITE-Z2 CODE ANALYSIS

D1 / 2A-203 | 1" = 30'-0"

SITE PLAN CODE ANALYSIS

PARKING STRUCTURE:

FIRE-RESISTANCE RATING REQUIREMENTS PER TABLE 602
TYPE II-B NON SPRINKLED

NORTH WALL:	10 ≤ X < 30	0 HR
EAST WALL:	X ≥ 30	0 HR
SOUTH WALL, TYP:	10 ≤ X < 30	0 HR
SOUTHWALL AT BRIDGE:	5 ≤ X 10	1 HR
WEST WALL:	10 X < 30	0 HR

ELEVATOR WALLS:
PER CBC 712.1.10.2 ELEVATOR WALLS ARE NON RATED.

MAXIMUM AREA OF EXTERIOR WALL OPENINGS PER TABLE 705.8

NORTH WALL:	NO LIMIT*
EAST WALL:	NO LIMIT*
SOUTH WALL:	NO LIMIT*
SOUTH WALL AT BRIDGE:	15% UNPROTECTED, 25% PROTECTED
WEST WALL:	NO LIMIT*

PER FOOT NOTE G, "THE AREA OF OPENINGS IN AN OPEN PARKING STRUCTURE WITH A FIRE SEPARATION DISTANCE OF 10 FEET OR GREATER SHALL NOT BE LIMITED"

NEW BUILDING:

FIRE-RESISTANCE RATING REQUIREMENTS PER TABLE 602
TYPE I-B SPRINKLED

NORTH WALL:	X < 5	2 HR (AT S-1) 1 HR AT A AND B
EAST WALL:	10 ≤ X < 30	0 HR*
SOUTH WALL:	10 ≤ X < 30	0 HR*
WEST WALL:	10 ≤ X < 30	0 HR*

PER FOOT NOTE G WHERE TABLE 705.8 PERMITS NONBEARING EXTERIOR WALLS WITH UNLIMITED AREA OF UNPROTECTED OPENINGS, THE REQUIRED FIRE-RESISTANCE RATING FOR THE EXTERIOR WALLS IS 0 HOURS.

MAXIMUM AREA OF EXTERIOR WALL OPENINGS PER TABLE 705.8

NORTH WALL @ 5'-10':	25% PROTECTED, 25% UNPROTECTED SPRINKLED
NORTH WALL @ 20'+:	UNPROTECTED SPRINKLED, UNLIMITED
EAST WALL:	UNPROTECTED SPRINKLED, UNLIMITED
SOUTH WALL:	UNPROTECTED SPRINKLED, UNLIMITED
WEST WALL:	UNPROTECTED SPRINKLED, UNLIMITED

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND

- PROPERTY LINE
- ASSUMED PROPERY LINE SHEET 2GS-102
- BUILDING, SEE DESCRIPTIONS
- FIRE LANE SHEET 2GS-103
- 1- HR RATED WALL SHEET 2GS-102
- 2-HR RATED WALL SHEET 2GS-102
- PER FOOTNOTE G ON TABLE 602: WHERE TABLE 705.8 PERMITS NONBEARING EXTERIOR WALLS WITH UNLIMITED AREA OF UNPROTECTED OPENINGS, THE REQUIRED FIRE-RESISTANCE RATING FOR THE EXTERIOR WALL IS 0 HOURS.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

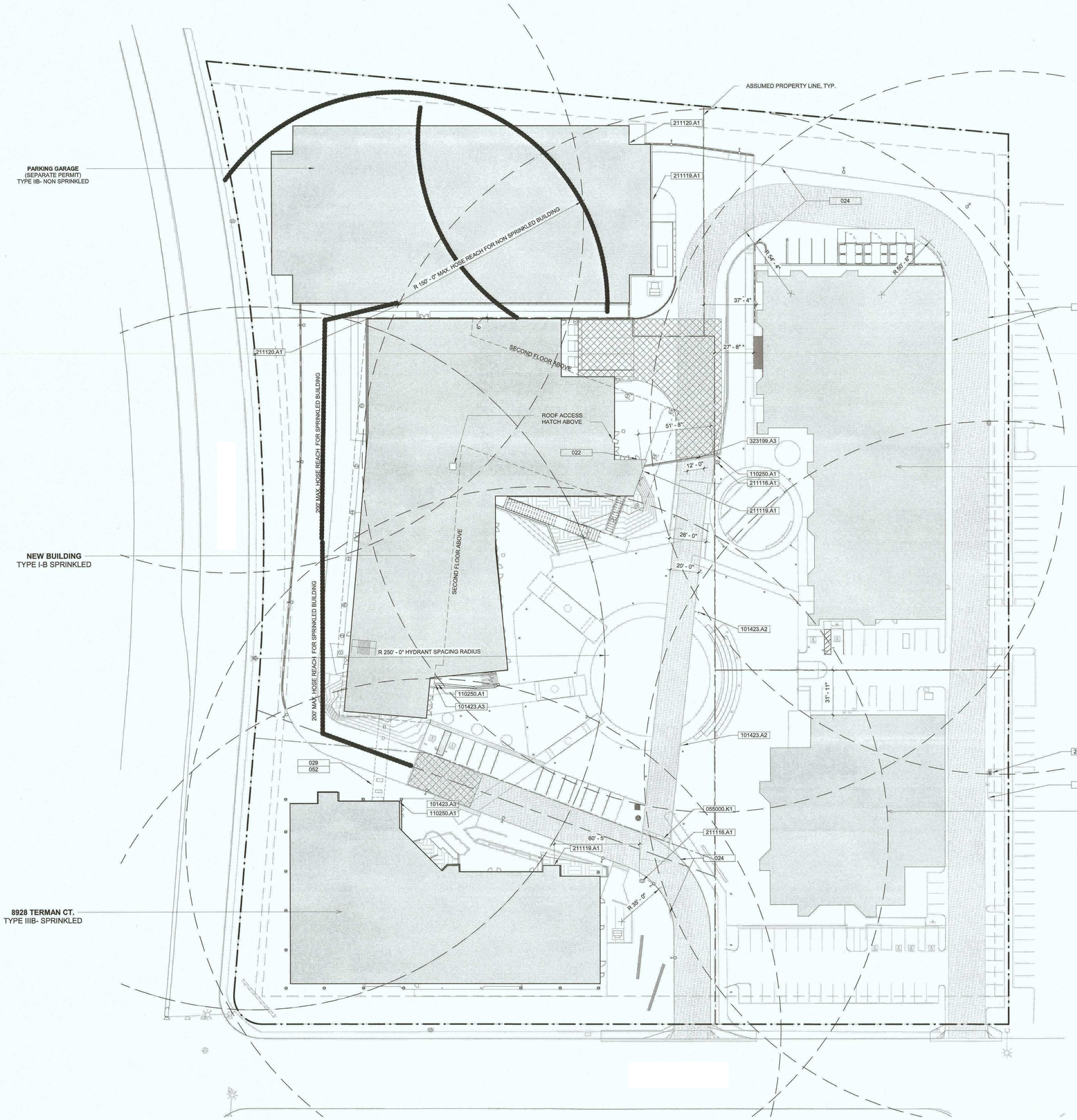
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
SITE PLAN
CODE
ANALYSIS

Sheet No.
2GS-102

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



GENERAL FIRE NOTES

1. FIRE ACCESS LANE SHALL HAVE FIRE LANE SIGNAGE PER CITY FIRE DEPARTMENT POLICY NO. A-95-1.

2. BUILDING OCCUPANT SHALL SECURE PERMITS REQUIRED BY THE FIRE DEPARTMENT FROM THE FIRE PREVENTION BUREAU PRIOR TO OCCUPYING THE BUILDING.

3. FIRE PROTECTION, INCLUDING FIRE APPARATUS ACCESS ROADS AND WATER SUPPLIES FOR THE FIRE PROTECTION, SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING TIME OF CONSTUCTION. (CFC. 9013, 8704.2, 8704.3)

4. "ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE LEGIBLE FROM TEH STREET OR RPAD FRONTING THE PROPERTY. (CFC.901.44)

5. BUILDING NUMBERS SHALL BE EASILY VISIBLE AND LEGIBLE FROM TEH STREE OR ROAD FRONTING THE PROPERTY. (CFC. 901.4.4)

6. BUILDINGS UDNERGOING CONSTUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH CFC ARTICLE 87. (CFC 8701, 903.1) MUST COMPLY WITH FHPS POLICY P-00-6.

7. ALL DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME RETARDANT CONDITION (CCR, T-19, SEC. 1.14, 3.08, 3.21, AND CFC SEC. 1103.3, 2501.5, SEC. 2501.6).

FIRE EXTINGUISERS
1. AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 4-A-20B:C SHALL BE PROVIDED OUTSIDE OF EACH MECHANICAL, ELECTRICAL, OR BOILER ROOM. (CFC 1002, UFC STANDARD 10-1, CCR T-19, 3.29)

2. PROVIDE A MINIMUM OF OF ONE 2-A-10B:C CLASSIFICATION FIRE EXTINGUISHER WITHIN 75 FEED OF TRAVEL DISTANCE FOR 6000 SF OR PORTION THEREOF ON EACH FLOOR. (CFC 10-1 AND CCR T-19, SEC. 3-29)

FIRE HYDRANTS
1. FIRE HYDRANTS SHALL COMPLY WITH FIRE DEPARTMENT REQUIREMENTS FOR ON-SITE FIRE HYDRANTS, FIRE AND LIFE SAFETY, F.P.B. POLICY F-96-01 AND CFC APPENDIX C.

2. FIRE HYDRANT LCOATIONS SHALL BE IDENTIFIED BY THE INSTALLATION OF REFLECTIVE MARKERS. (CFC. 901.4.3)

3. ON-SITE FIRE HYDRANTS SHALL COMPLY WITH THE FIRE DEPARTMENT REQUIREMENTS AND CFC SEC. 903.4

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
055000.K1	STEEL BOLLARDS - REMOVABLE
101423.A2	"NO PARKING FIRE LANE" METAL SIGN
101423.A3	FDC LOCATION SIGNAGE
110250.A1	KNOX-VAULT ASSEMBLY
211116.A1	FACILITY FIRE HYDRANTS
211119.A1	NEW FIRE DEPARTMENT CONNECTION
211120.A1	FIRE-SUPPRESSION STANDPIPE
323199.A3	12' WIDE ROLLING FIRE LANE GATE, SEE LANDSCAPE

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
020	200' HOSE REACH
022	FIRE PUMP ROOM
024	PAINTED RED CURB WITH TEXT "NO PARKING FIRE LANE"
025	ROOF ACCESS STAIRWELL
029	C.I.P. PEDESTRIAN BRIDGE TO ADJACENT BUILDING, SEE ENLARGED SHEETS
052	WARNING BAR FOR FIRE TRUCK

LEGEND

- PROPERTY LINE
- ASSUMED PROPERY LINE
- BUILDING - SEE DESCRIPTIONS
- FIRE LANE
- FIRE TRUCK AERIAL ACCESS
- FIRE HOSE REACH

GENE THEORY
- CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
SITE PLAN-
FIRE ACCESS

Sheet No.
2GS-103

A1 | **FIRE ACCESS SITE PLAN**

D1 / 2A-203 | 1" = 30'-0"

N

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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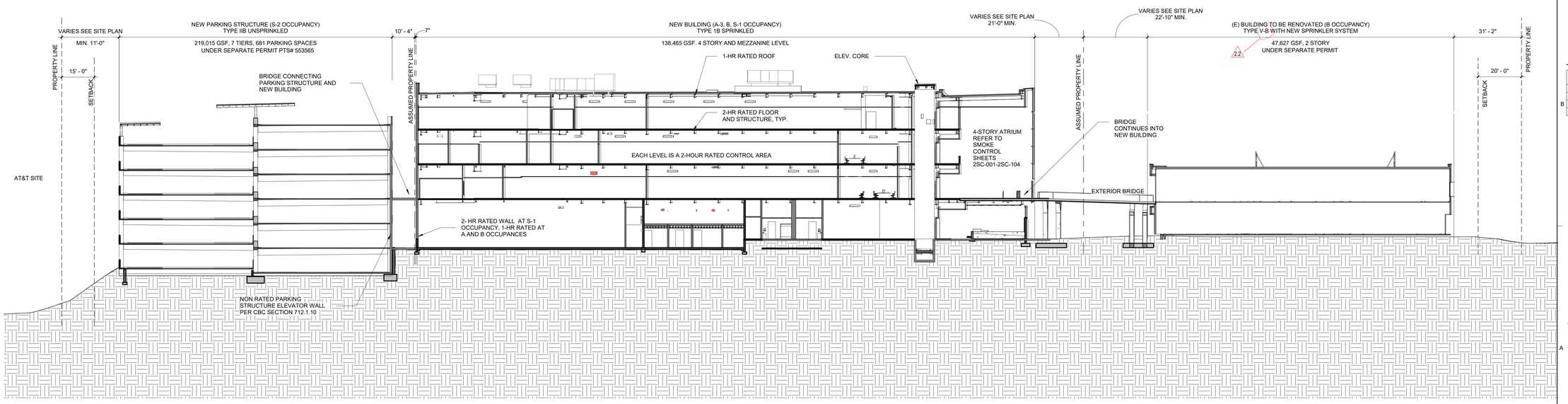


A1 BUILDING/SITE SECTION

A1 / 2GS-101 1" = 20'-0"

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

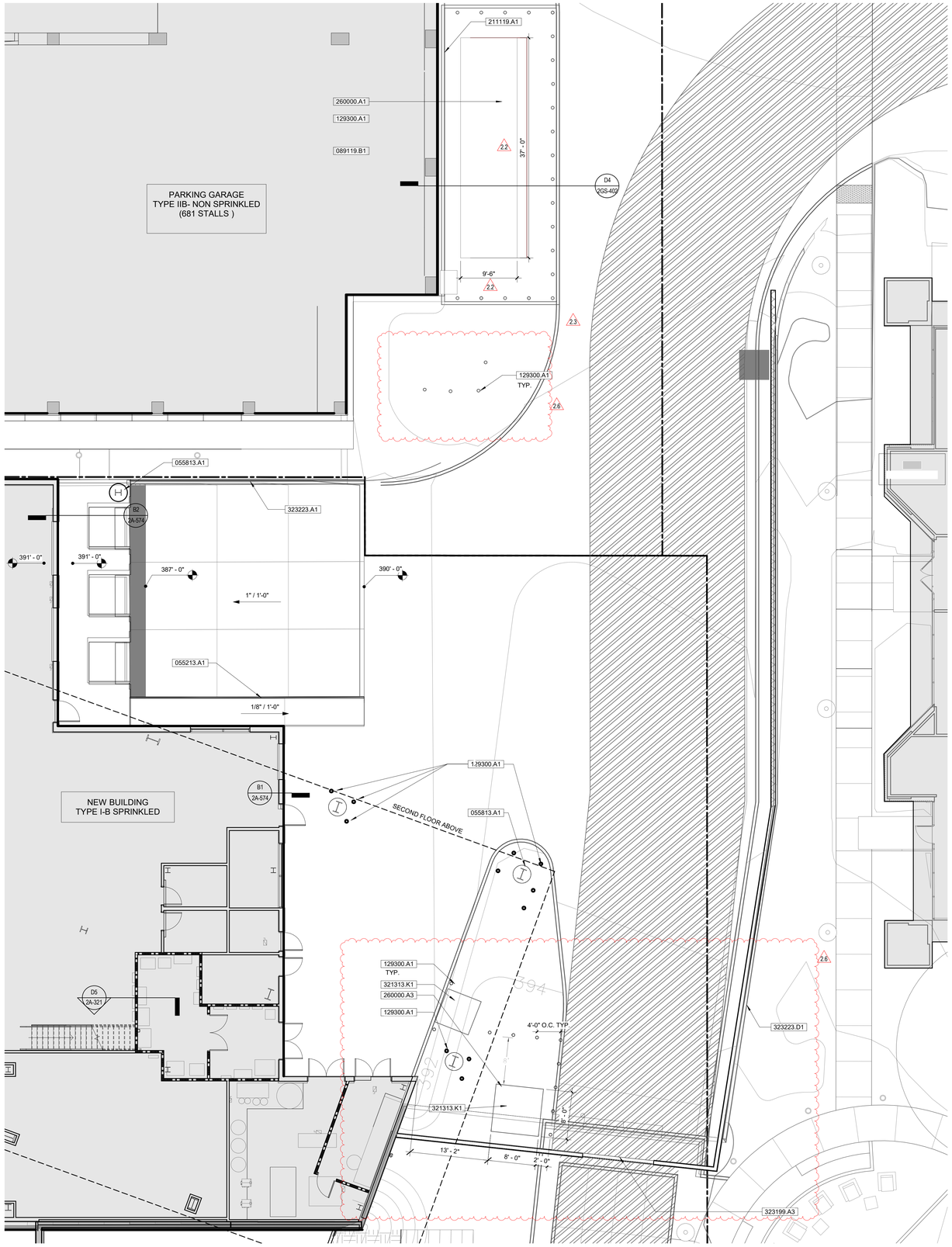
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

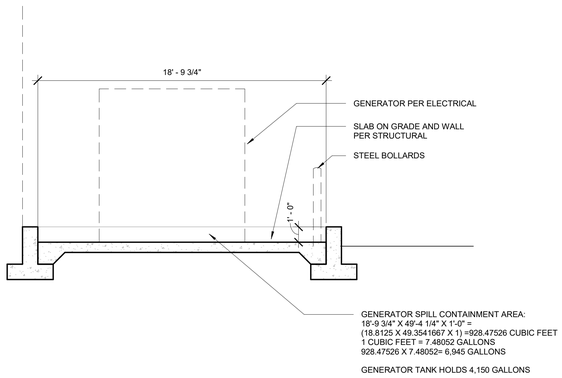
ADDENDUM 2.2
10.03.17

Sheet Title
SITE SECTIONS

Sheet No.
2GS-301

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002





D4 2.3 **GENERATOR SPILL CONTAINMENT CURB**

A1 / 2GS-402 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS
2. AT HAZARDOUS VEHICULAR AREAS, DETECTABLE WARNING SURFACES SHALL BE YELLOW CONFORMING TO FS 33538 OF FEDERAL STANDARD 595C.
3. AT LOCATIONS OTHER THAN VEHICULAR HAZARDOUS AREAS, DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE.
4. ONLY APPROVED DSA-AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, CHAPTER 5, ARTICLE 2, 3 AND 4." (CBC, SEC. 11B-705.3)

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
055213.A1	TUBE RAILING SYSTEM
055813.A1	ALUMINUM COLUMN COVERS
129300.A1	BOLLARD
211119.A1	NEW FIRE DEPARTMENT CONNECTION
260000.A1	NEW EMERGENCY GENERATOR, SEE ELECTRICAL
260000.A3	NEW TRANSFORMER, SEE ELECTRICAL
321313.K1	CONCRETE EQUIPMENT PAD
323199.A3	FIRE LANE GATE, SEE LANDSCAPE
323223.A1	RETAINING WALL
323223.D1	SITE WALL, SEE LANDSCAPE

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND

- PROPERTY LINE
- BUILDING - SEE DESCRIPTION
- ACCESSIBLE PATH OF TRAVEL TO RIGHT OF WAY
- ACCESSIBLE PATH OF TRAVEL TO BUILDING

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
ENLARGED SITE PLAN - LOADING DOCK

Sheet No.
2GS-402

A1 **SITE PLAN - LOADING DOCK**

A1 / 2GS-101 | 1/8" = 1'-0"

N

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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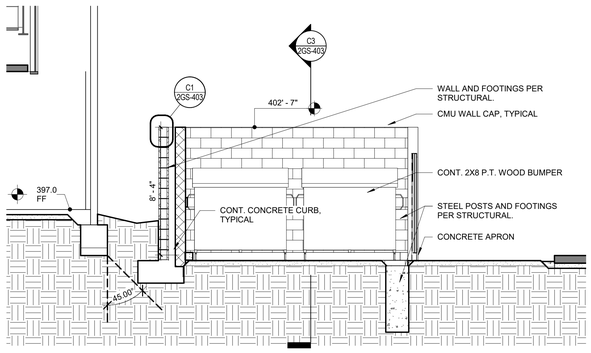
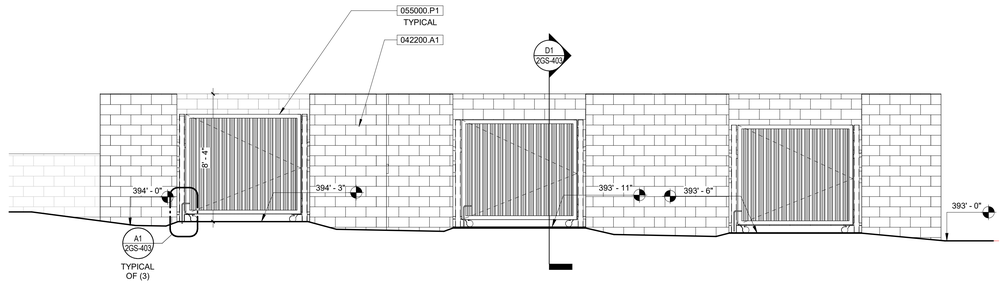


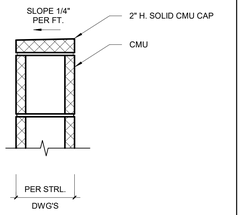
D1 TRASH ENCLOSURE - LATERAL SECTION

A3 / 2GS-403 | 1/4" = 1'-0"



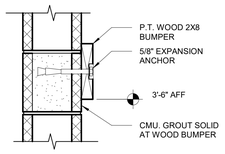
D3 TRASH ENCLOSURE - NORTH ELEVATION

A1 / 2GS-402 | 1/4" = 1'-0"



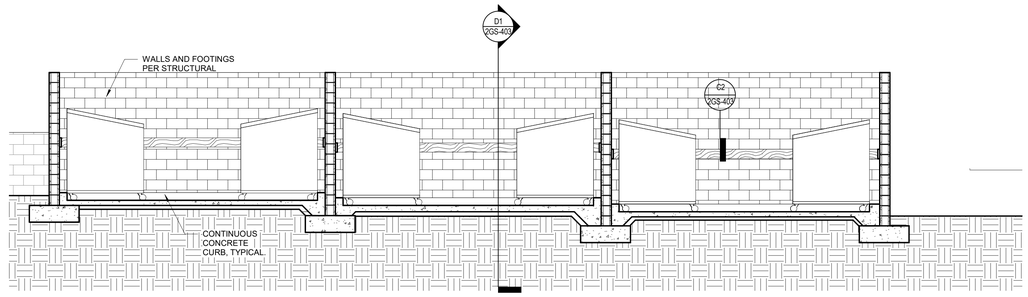
C1 TRASH ENCLOSURE - WALL CAP

D1 / 2GS-403 | 1 1/2" = 1'-0"



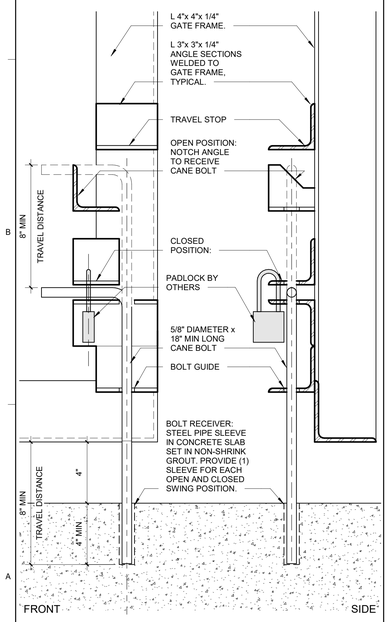
C2 TRASH ENCLOSURE - WALL BUMPER

A3 / 2GS-403 | 1 1/2" = 1'-0"



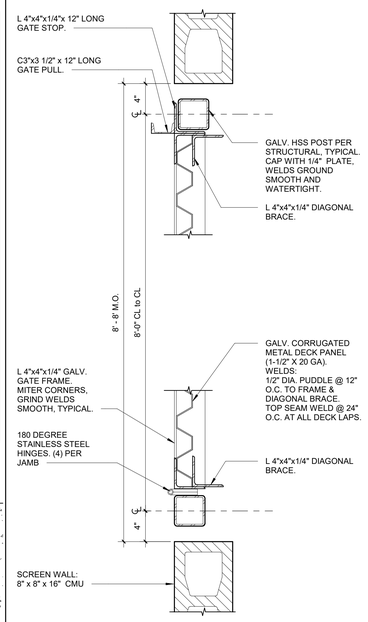
C3 TRASH ENCLOSURE - LONGITUDINAL SECTION

A3 / 2GS-403 | 1/4" = 1'-0"



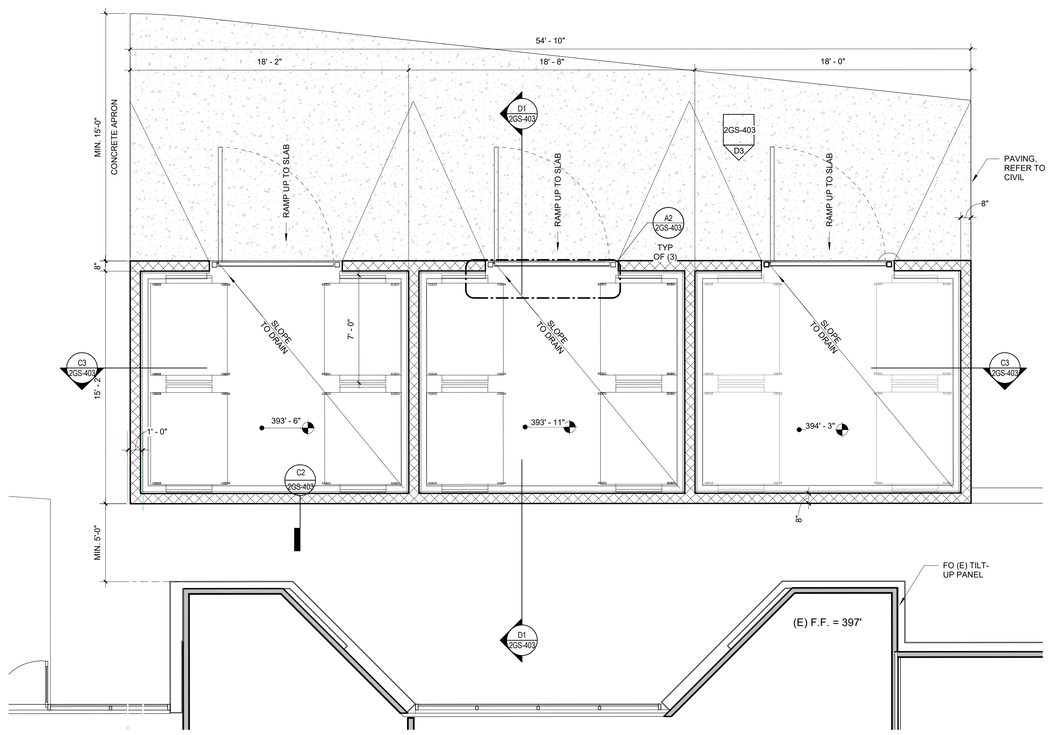
A1 TRASH ENCLOSURE CANE BOLT

D3 / 2GS-403 | 3" = 1'-0"



A2 TRASH ENCLOSURE GATE

A3 / 2GS-403 | 1 1/2" = 1'-0"



A3 TRASH ENCLOSURE PLAN

A1 / 2GS-101 | 1/4" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
042200.A1	CONCRETE UNIT MASONRY
055000.P1	TRASH ENCLOSURE GATE

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED SITE PLAN - TRASH ENCLOSURE

Sheet No.

2GS-403

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

GENERAL NOTES

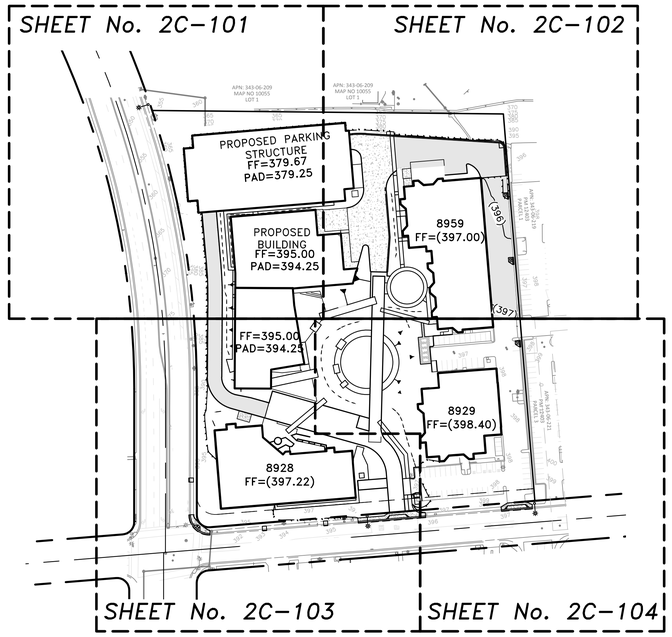
1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OF HOLIDAYS UNLESS APPROVED BY TRAFFIC CONTROL PERMIT FROM THE DEVELOPMENT SERVICES DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN DIEGO DOES NOT AUTHORIZE THE UTILITY COMPANY TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
4. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE (800) 422-4133, TWO DAYS BEFORE YOU DIG.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND LOCATING ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE WHILE MAINTAINING A 1 FOOT VERTICAL CLEARANCE.
6. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT ISSUING AUTHORITY.
7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE RESIDENT ENGINEER.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPPING DAMAGED DURING CONSTRUCTION.
9. PRIOR TO SITE DISTURBANCE, CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRECONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO, CONSTRUCTION MANAGEMENT AND FIELD ENGINEERING DIVISION (858) 627-3200.
10. CONTRACTOR MAY PERFORM SITE SURVEY AND UTILITY MARK OUT SERVICES PRIOR TO THE PRECONSTRUCTION MEETING.
11. PRIOR TO DEMOLITION, CONTRACTOR SHALL FURNISH THE RESIDENT ENGINEER WITH A LETTER FROM A LICENSED LAND SURVEYOR THAT HAS RESEARCHED AVAILABLE RECORDS AND FIELD INSPECTED THE SITE, STATING THAT NO SURVEY MONUMENTS EXIST IN THE AREA TO DEMOLISHES OR WILL BE DISTURBED OR DESTROYED DURING CONSTRUCTION.
12. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING VERTICAL CONTROL BENCHMARKS DESTROYED BY CONSTRUCTION.
13. CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ALL SURVEY MONUMENTS WHICH ARE DAMAGED OR DESTROYED BY CONSTRUCTION.
14. PRIOR TO CONSTRUCTION, SURVEY MONUMENTS THAT ARE LOCATED IN THE CONSTRUCTION AREA SHALL BE TIED-OUT AND REFERENCED BY A LAND SURVEYOR.
15. UPON COMPLETION OF CONSTRUCTION, ALL DESTROYED SURVEY MONUMENTS ARE REQUIRED TO BE REPLACED, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE PREPARED AND FILED WITH THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYOR ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA.
16. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. CONTRACTOR SHALL HAVE EMERGENCY MATERIAL AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHERE FLOW MAY GENERATE EROSION AND SEDIMENT POLLUTION.
18. MANHOLES AND PULL BOX COVER SHALL BE LABELED "NAME OF COMPANY."
19. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEGO.
20. AN AS-GRADED GEOTECHNICAL REPORT AND A SET OF THE REDLINE GRADING PLANS SHALL BE SUBMITTED AT AREA 3 ON THE THIRD FLOOR OF DEVELOPMENT SERVICES WITHIN 30 CALENDAR DAYS OF THE COMPLETION OF GRADING. AN ADDITIONAL SET SHALL BE PROVIDED TO THE RESIDENT ENGINEER OF THE FIELD ENGINEERING DIVISION AT 9573 CHESAPEAKE DRIVE, SAN DIEGO, CA 92123.

GRADING NOTES

1. GRADING AS SHOWN ON THESE PLANS SHALL BE IN CONFORMANCE WITH CURRENT STANDARD SPECIFICATIONS AND CHAPTER 14, ARTICLE 2, DIVISION 1, OF THE SAN DIEGO MUNICIPAL CODE.
2. PLANT AND IRRIGATE ALL CUT AND FILL SLOPES AS REQUIRED BY ARTICLE 2, DIVISION 4, SECTION 142.0411 OF THE SAN DIEGO LAND DEVELOPMENT CODE AND ACCORDING TO SECTION IV OR THE LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS.
3. ALL TEMPORARY SLOPES SHOWN ON PLAN ARE FOR REFERENCE ONLY.

PRECISE GRADING PLANS FOR:

GENE THEORY CAMPUS



KEY MAP

SCALE: 1"= 100'

LEGEND

EXISTING IMPROVEMENTS

	SYMBOL
EXISTING ROW LINE	
EXISTING PROPERTY LINE	
EXISTING CHAIN LINK FENCE	X X X
EXISTING TELECOM	COM
EXISTING GAS	G
EXISTING WATER	W
EXISTING ELECTRIC CONDUIT	E
EXISTING SEWER	SS
EXISTING STORM DRAIN	
EXISTING MANHOLE	
EXISTING WATER METER	
EXISTING FIRE HYDRANT	
EXISTING WATER VALVE	
EXISTING CONTOUR	390
EXISTING SURVEY MONUMENT	
EXISTING STREET LIGHT	
EXISTING UTILITY BOXES	
EXISTING SIGN	
EXISTING TREE/BRUSH	
EXISTING CURB RAMP	

PROPOSED IMPROVEMENTS

IMPROVEMENT	STANDARD DWGS.	SYMBOL
PROPERTY LINE		PL
PROPOSED RIGHT-OF-WAY		
PROPOSED CONTOUR		390
SPOT ELEVATION		390.00 TC
LIMITS OF GRADING (DAYLIGHT)		
CATCH BASIN, TYPE F (PVT)	SDD-119	
CLEANOUT, TYPE A (PVT)	D-9	
SEWER LINE	SIZE PER PLAN	SS SS
SEWER CLEANOUT		
MODULAR WETLAND/STORM VAULT		
4" P.C.C. SIDEWALK	SDG-155	
6" CURB	SDG-155	
6" CURB AND GUTTER	SDG-151	
SAWCUT LINES		
COMMERCIAL DRIVEWAY	SDG-163	
DIRECTION RUNOFF		
STORM DRAIN LINE (SIZE PER PLAN) (PVT)		
STORM DRAIN CATCH BASIN (BROOKS 2424) (PVT)		
8" NYOPLAST INLET W/ DUCTILE IRON GRATE		
PVC AREA DRAIN SIZE SIZE PER PLAN		
RETAINING WALL		
HEADWALL		
DAYLIGHT LINE		
COBBLE ROCK PER LANDSCAPE PLAN		
VEHICULAR CONCRETE PAVING		
PEDESTRIAN PAVERS		
ASPHALT PAVING		
TURF BLOCK		
CONCRETE PAVING		
STABILIZED DECOMPOSED GRANITE		

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

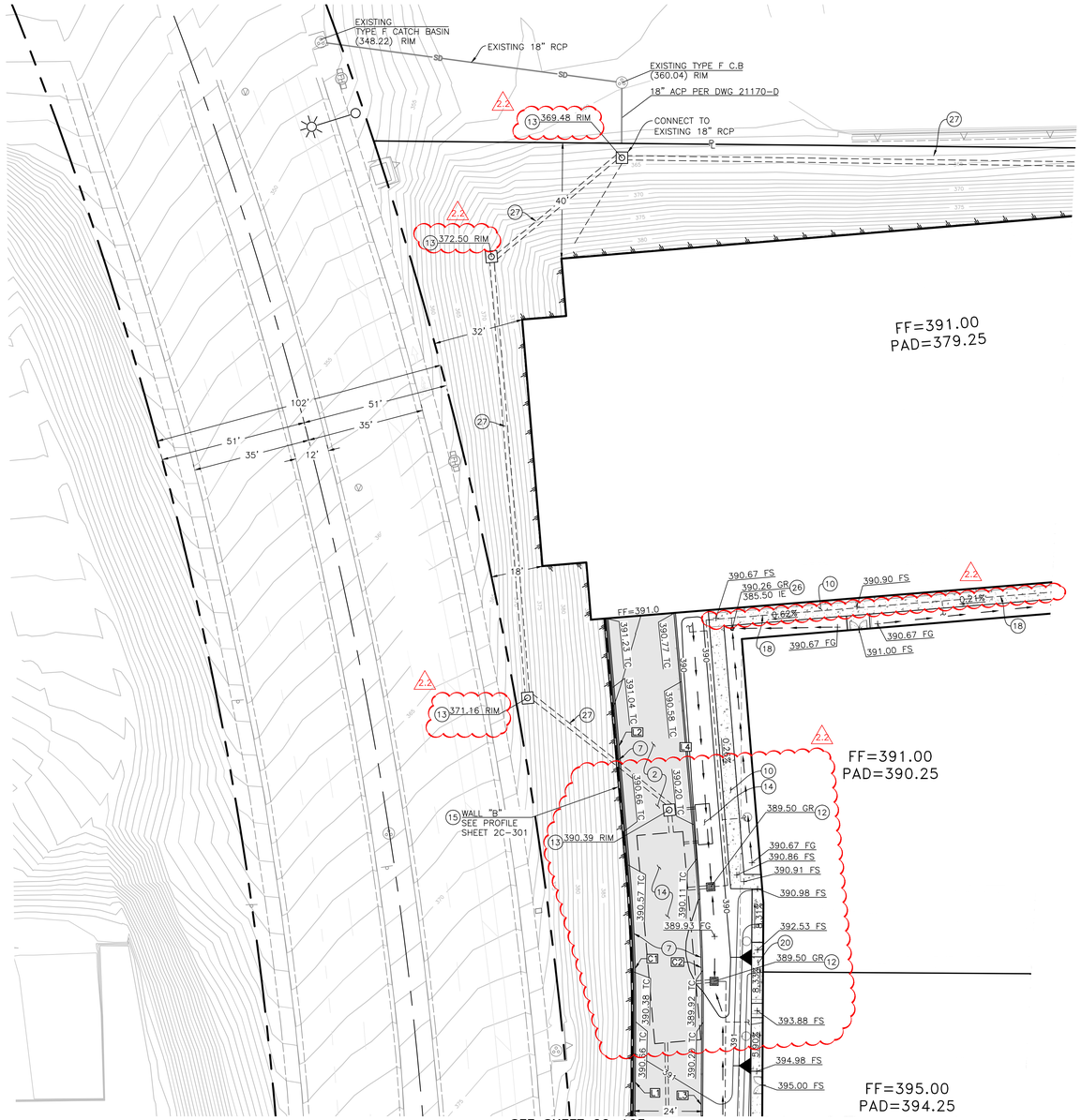
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

08.08.2017 CITY SUBMITTAL

Sheet Title
PRECISE GRADING PLAN

Sheet No.
2C-001

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



PRECISE GRADING PLAN

CONSTRUCTION NOTES

1. 8" VEHICULAR CONCRETE PAVING DETAIL SEE LANDSCAPE DWG. NO. 2LC-500
2. 4" AC/11" CLASS II BASE PAVING PER GEOTECH
3. 2" VEHICULAR PAVERS ON 6" PCC, SEE LANDSCAPE DWG. 2LC-500
4. GRASS PAVER DETAIL SEE LANDSCAPE DWG. 2LC-500
5. 6" CURB & GUTTER PER SDG-151
6. 6" CURB PER SDG-150
7. 0" CURB PER SDG-150 (MODIFIED)
8. 6 CURB PER SDG-154 W/ CURB OPENING EVERY 10'
9. BOLLARDS PER ARCHITECTURAL PLANS
10. PEDESTRIAN CONCRETE PAVING DETAIL SEE LANDSCAPE DWG. 2LC-500
11. TYPE B CURB INLET PER SDD-116
12. BROOKS 2424 GRATE INLET
13. TYPE A CLEAN OUT PER SDRSD DWG 'D-9'/SDD 119, SEE DWG. 40031-D-10 FOR DETAILS
14. MODULAR WETLAND/STORAGE VAULT
15. RETAINING WALL, SEE PROFILE SHEET 2C-301
16. SAFETY RAIL, SEE LANDSCAPE DWG. 2LC-501
17. COMMERCIAL DRIVEWAY PER SDG-163
18. 4" PVC DRAIN @ 2% MIN.
19. PEDESTRIAN PAVER OVER CONCRETE BASE DETAIL SEE LANDSCAPE DWG. NO. 2LC-500
20. CONCRETE RAMP DETAIL SEE LANDSCAPE PLAN DWG. 2LC-501
21. WOODEN SCREEN FENCE DETAIL SEE LANDSCAPE PLAN DWG. 2LC-502
22. CMU WALL AND WOODEN GATE DETAIL SEE LANDSCAPE PLAN DWG. 2LC-502
23. WOODEN IPE BRIDGE DETAIL SEE LANDSCAPE PLAN DWG. 2LC-503
24. REPLACE SECTION OF 6" CURB & GUTTER TO TIP GUTTER TO BASIN
25. SEE DWG 40031-D-09 FOR WATER AND FIRE SERVICE PADS
26. 8' NYOPLAST INLET W/ DUCTILE IRON GRATE
27. PVC STORM DRAIN PIPE SEE DWG. 40031-D-10 FOR SIZE AND DETAILS

CURB DATA			
NUMBER	LENGTH	BEARING	DESCRIPTION
L1	126.99'	N00°23'03"E	0" CURB PER SDG-150
L2	86.07'	N04°56'57"W	0" CURB PER SDG-150
L3	127.94'	S00°23'03"W	0" CURB PER SDG-150
L4	86.07'	S04°56'57"E	0" CURB PER SDG-150

CURB DATA				
NUMBER	LENGTH	RADIUS	DELTA/BEARING	DESCRIPTION
C1	54.69	587.50	N2°16'57"W	0" CURB PER SDG-150
C2	56.83	610.50	S2°16'57"E	0" CURB PER SDG-150

N

20 10 0 20 40

SCALE: 1" = 20'

GENE THEORY-

CP-2

VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title

PRECISE GRADING PLAN

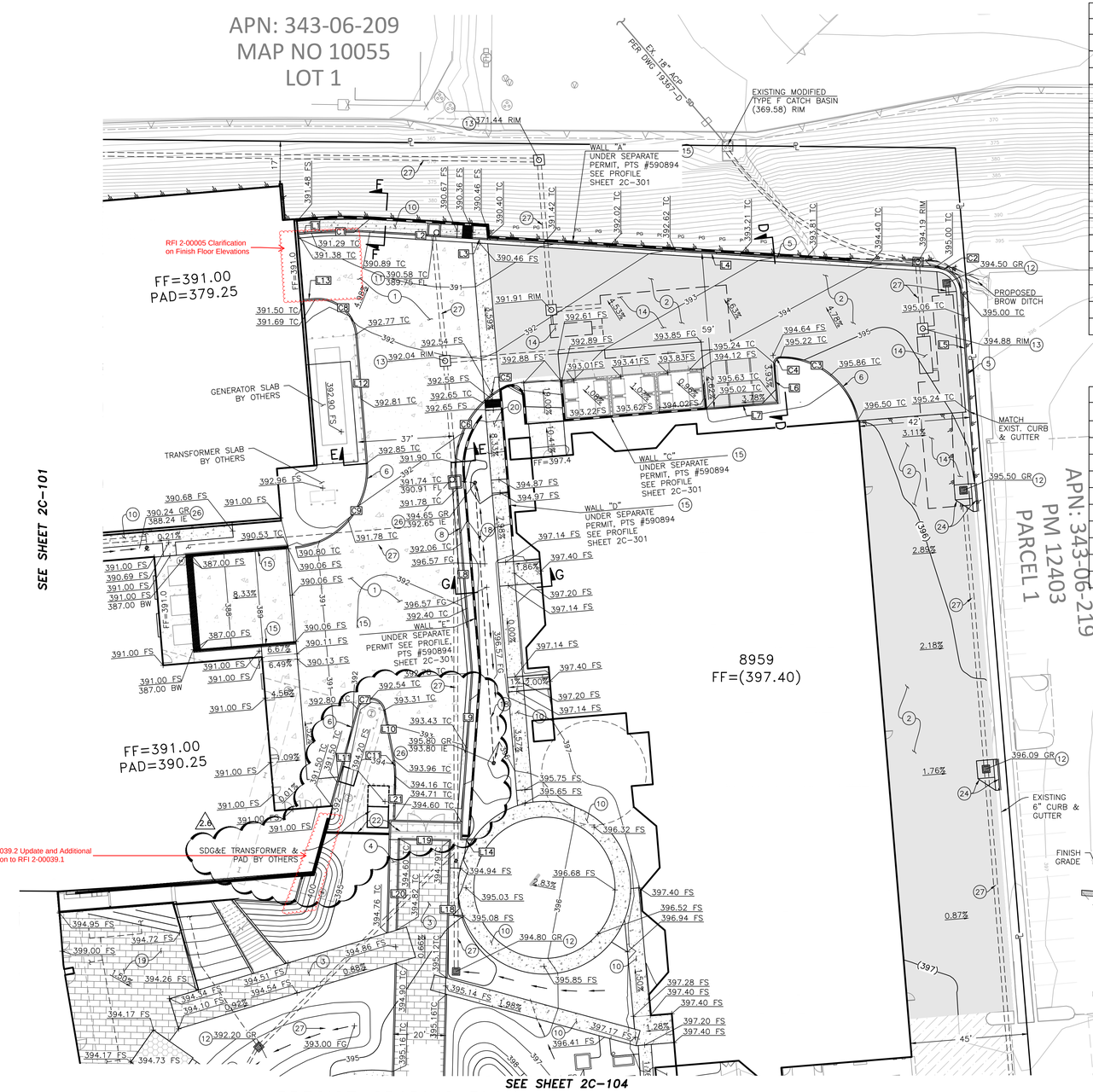
Sheet No.

2C-101

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

SEE SHEET 2C-101



SEE SHEET 2C-104

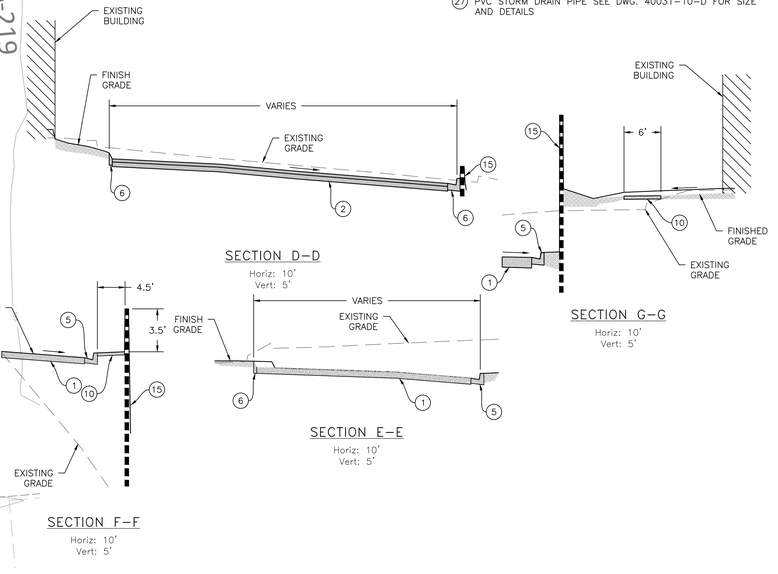
PRECISE GRADING PLAN

CURB DATA			
NUMBER	LENGTH	BEARING	DESCRIPTION
L1	5.19'	N85°03'03"E	6" CURB & GUTTER PER SDG-151
L2	38.97'	S86°25'33"E	6" CURB & GUTTER PER SDG-151
L3	6.06'	S86°25'33"E	0" CURB & GUTTER PER SDG-151
L4	171.81'	S86°25'33"E	6" CURB & GUTTER PER SDG-151
L5	45.93'	S04°16'04"E	6" CURB & GUTTER PER SDG-151
L6	14.74'	S04°42'35"E	6" CURB PER SDG-150
L7	26.97'	S85°17'07"W	6" CURB PER SDG-150
L8	75.96'	N04°40'48"W	6" CURB & GUTTER PER SDG-151
L9	56.86'	N03°58'18"E	6" CURB & GUTTER PER SDG-151
L10	19.69'	S10°41'41"E	6" CURB PER SDG-150
L11	38.64'	N15°19'35"E	6" CURB PER SDG-150
L12	49.48'	S04°40'48"E	6" CURB PER SDG-150
L13	4.37'	N85°19'12"E	6" CURB PER SDG-150
L14	4.52'	N88°33'29"W	0" CURB PER SDG-150
L18	52.34'	N01°26'31"E	0" CURB PER SDG-150
L19	19.00'	N88°33'29"W	0" CURB PER SDG-150
L20	34.49'	S01°26'31"W	0" CURB PER SDG-150
L21	16.52'	S01°26'24"W	0" CURB PER SDG-150
			0" CURB PER SDG-150
			0" CURB PER SDG-150
			6" CURB PER SDG-150

CURB DATA				
NUMBER	LENGTH	RADIUS	DELTA/BEARING	DESCRIPTION
C1	22.31	150.00	N89°18'45"E	6" CURB & GUTTER PER SDG-151
C2	14.34	10.00	S45°20'48"E	6" CURB & GUTTER PER SDG-151
C3	42.13	30.00	N50°55'04"W	6" CURB PER SDG-150
C4	4.08	2.50	S42°04'22"W	6" CURB PER SDG-150
C5	7.08	35.00	N53°23'22"E	0" CURB & GUTTER PER SDG-151
C6	31.93	35.00	N21°27'19"E	6" CURB & GUTTER PER SDG-151
C7	14.78	5.50	S87°40'30"E	6" CURB PER SDG-150
C8	23.56	15.00	S49°40'48"E	6" CURB PER SDG-150
C9	47.13	29.99	S40°19'12"W	6" CURB PER SDG-150
C11	6.35	30.00	S4°37'39"E	6" CURB PER SDG-150

CONSTRUCTION NOTES

1. 8" VEHICULAR CONCRETE PAVING DETAIL SEE LANDSCAPE DWG. NO. 2LC-500
2. 4" AC/11" CLASS II BASE PAVING PER GEOTECH
3. 2" VEHICULAR PAVERS ON 6" PCC, SEE LANDSCAPE DWG. 2LC-500
4. GRASS PAVER DETAIL SEE LANDSCAPE DWG. 2LC-500
5. 6" CURB & GUTTER PER SDG-151
6. 6" CURB PER SDG-150
7. 0" CURB PER SDG-150 (MODIFIED)
8. 6 CURB PER SDG-154 W/ CURB OPENING EVERY 10'
9. BOLLARDS PER ARCHITECTURAL PLANS
10. PEDESTRIAN CONCRETE PAVING DETAIL SEE LANDSCAPE DWG. 2LC-500
11. TYPE B CURB INLET PER SDD-116
12. BROOKS 2424 GRATE INLET
13. TYPE A CLEAN OUT PER SDRSD DWG 'D-9'/SDD 119, SEE DWG. 40031-10-D FOR DETAILS
14. MODULAR WETLAND/STORAGE VAULT
15. RETAINING WALL, SEE PROFILE SHEET 21
16. SAFETY RAIL, SEE LANDSCAPE DWG. 2LC-501
17. COMMERCIAL DRIVEWAY PER SDG-163
18. 4" PVC DRAIN @ 2% MIN.
19. PEDESTRIAN PAVER OVER CONCRETE BASE DETAIL SEE LANDSCAPE DWG. NO. 2LC-500
20. CONCRETE RAMP DETAIL SEE LANDSCAPE PLAN DWG. 2LC-501
21. WOODEN SCREEN FENCE DETAIL SEE LANDSCAPE PLAN DWG. 2LC-502
22. CMU SCREEN WALL AND WOODEN GATE DETAIL SEE LANDSCAPE PLAN DWG. 2LC-502
23. WOODEN IPE BRIDGE DETAIL SEE LANDSCAPE PLAN DWG. 2LC-503
24. REPLACE SECTION OF 6" CURB & GUTTER TO TIP GUTTER TO BASIN
25. SEE DWG 40031-09-D FOR WATER AND FIRE SERVICE PADS
26. 8' NYOPLAST INLET W/ DUCTILE IRON GRATE
27. PVC STORM DRAIN PIPE SEE DWG. 40031-10-D FOR SIZE AND DETAILS





20 10 0 20 40
SCALE: 1" = 20'

GENE THEORY.
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1 / IFC
2.6	01.19.18	ASI 2.4

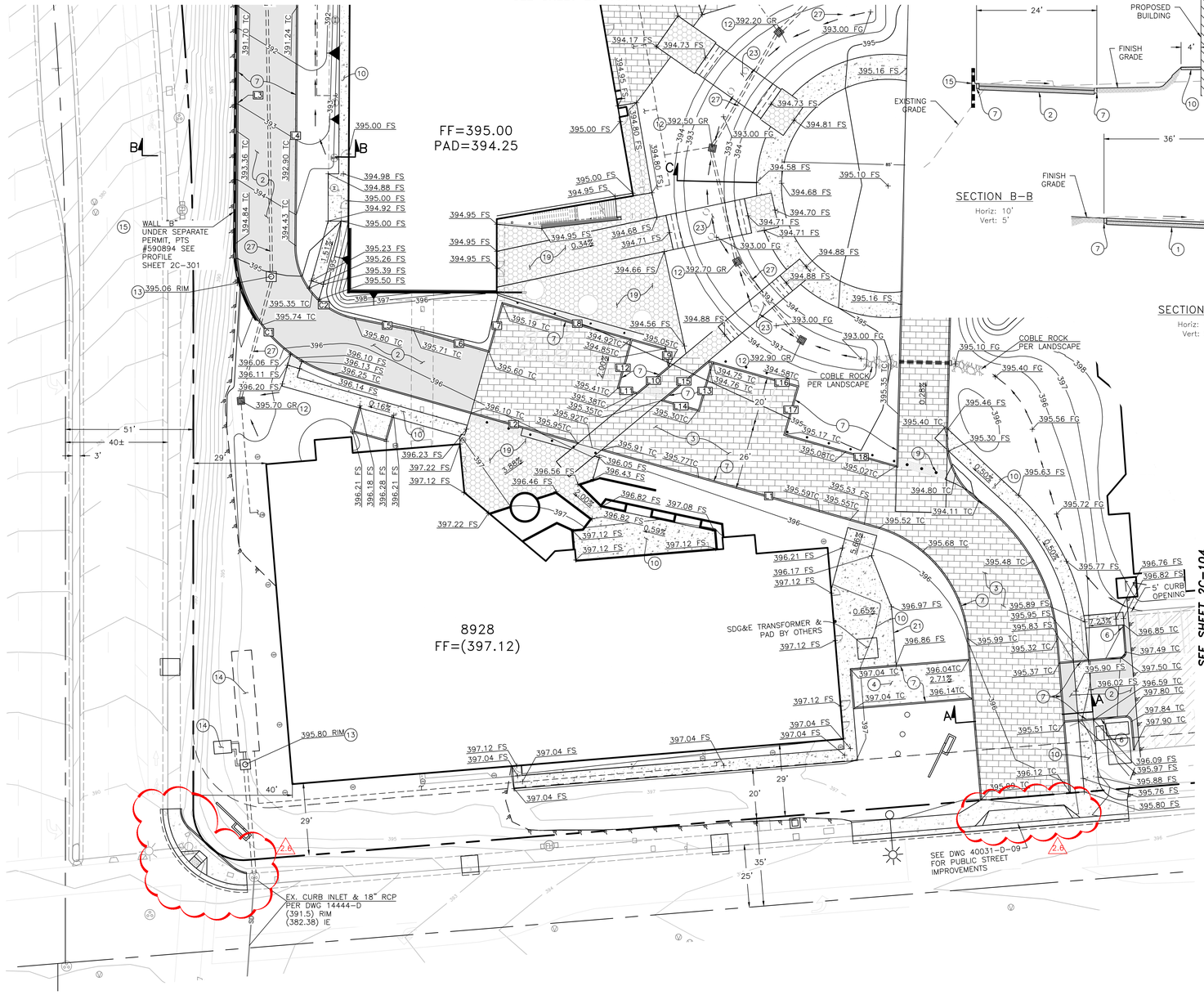
IFC 11.20.17

Sheet Title
PRECISE GRADING PLAN

Sheet No.
2C-102

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



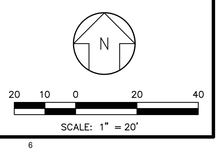
PRECISE GRADING PLAN

CONSTRUCTION NOTES

1. 8" VEHICULAR CONCRETE PAVING DETAIL SEE LANDSCAPE DWG. NO. 2LC–500
2. 4" AC/11" CLASS II BASE PAVING PER GEOTECH
3. 2" VEHICULAR PAVERS ON 6" PCC, SEE LANDSCAPE DWG. 2LC–500
4. GRASS PAVER DETAIL SEE LANDSCAPE DWG. 2LC–500
5. 6" CURB & GUTTER PER SDG–151
6. 6" CURB PER SDG–150
7. 0" CURB PER SDG–150 (MODIFIED)
8. 6 CURB PER SDG–154 W/ CURB OPENING EVERY 10'
9. BOLLARDS PER ARCHITECTURAL PLANS
10. PEDESTRIAN CONCRETE PAVING DETAIL SEE LANDSCAPE DWG. 2LC–500
11. TYPE B CURB INLET PER SDD–116
12. BROOKS 2424 GRATE INLET
13. TYPE A CLEAN OUT PER SDRSD DWG 'D–9'/SDD 119, SEE DWG. 40031–10–D FOR DETAILS
14. MODULAR WETLAND/STORAGE VAULT
15. RETAINING WALL, SEE PROFILE SHEET 21
16. SAFETY RAIL, SEE LANDSCAPE DWG. 2LC–501
17. COMMERCIAL DRIVEWAY PER SDG–163
18. 4" PVC DRAIN @ 2% MIN.
19. PEDESTRIAN PAVER OVER CONCRETE BASE DETAIL SEE LANDSCAPE DWG. NO. 2LC–500
20. CONCRETE RAMP DETAIL SEE LANDSCAPE PLAN DWG. 2LC–501
21. WOODEN SCREEN FENCE DETAIL SEE LANDSCAPE PLAN DWG. 2LC–502
22. CMU SCREEN WALL AND WOODEN GATE DETAIL SEE LANDSCAPE PLAN DWG. 2LC–502
23. WOODEN IPE BRIDGE DETAIL SEE LANDSCAPE PLAN DWG. 2LC–503
24. REPLACE SECTION OF 6" CURB & GUTTER TO TIP GUTTER TO BASIN
25. SEE DWG 40031–09–D FOR WATER AND FIRE SERVICE PADS
26. 8' NYOPLAST INLET W/ DUCTILE IRON GRATE
27. PVC STORM DRAIN PIPE SEE DWG. 40031–10–D FOR SIZE AND DETAILS

CURB DATA			
NUMBER	LENGTH	BEARING	DESCRIPTION
L1	113.63'	N74°16'17"W	0" CURB PER SDG–150
L2	102.22'	N74°16'17"W	0" CURB PER SDG–150
L3	126.99'	N00°23'03"E	0" CURB PER SDG–150
L4	127.94'	S00°23'03"W	0" CURB PER SDG–150
L5	23.92'	S78°39'35"E	0" CURB PER SDG–150
L6	31.60'	S74°16'18"E	0" CURB PER SDG–150
L7	20.00'	N15°43'42"E	0" CURB PER SDG–150
L8	67.83'	N74°16'18"W	0" CURB PER SDG–150
L9	7.57'	N12°00'47"W	0" CURB PER SDG–150
L10	16.75'	N50°14'00"E	0" CURB PER SDG–150
L11	8.36'	S74°16'06"E	0" CURB PER SDG–150
L12	20.00'	S15°43'42"W	0" CURB PER SDG–150
L13	20.00'	S15°43'43"W	0" CURB PER SDG–150
L14	15.93'	N74°16'06"W	0" CURB PER SDG–150
L15	24.88'	N50°14'00"E	0" CURB PER SDG–150
L16	35.00'	N74°16'18"W	0" CURB PER SDG–150
L17	20.01'	N15°43'43"E	0" CURB PER SDG–150
L18	47.32'	N74°16'06"W	0" CURB PER SDG–150

CURB DATA				
NUMBER	LENGTH	RADIUS	DELTA/BEARING	DESCRIPTION
C1	69.07	52.52	N36°11'35"W	0" CURB PER SDG–150
C2	40.70	29.50	S39°08'16"E	0" CURB PER SDG–150



GENE THEORY-
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1 / IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
PRECISE GRADING PLAN

Sheet No.
2C-103

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

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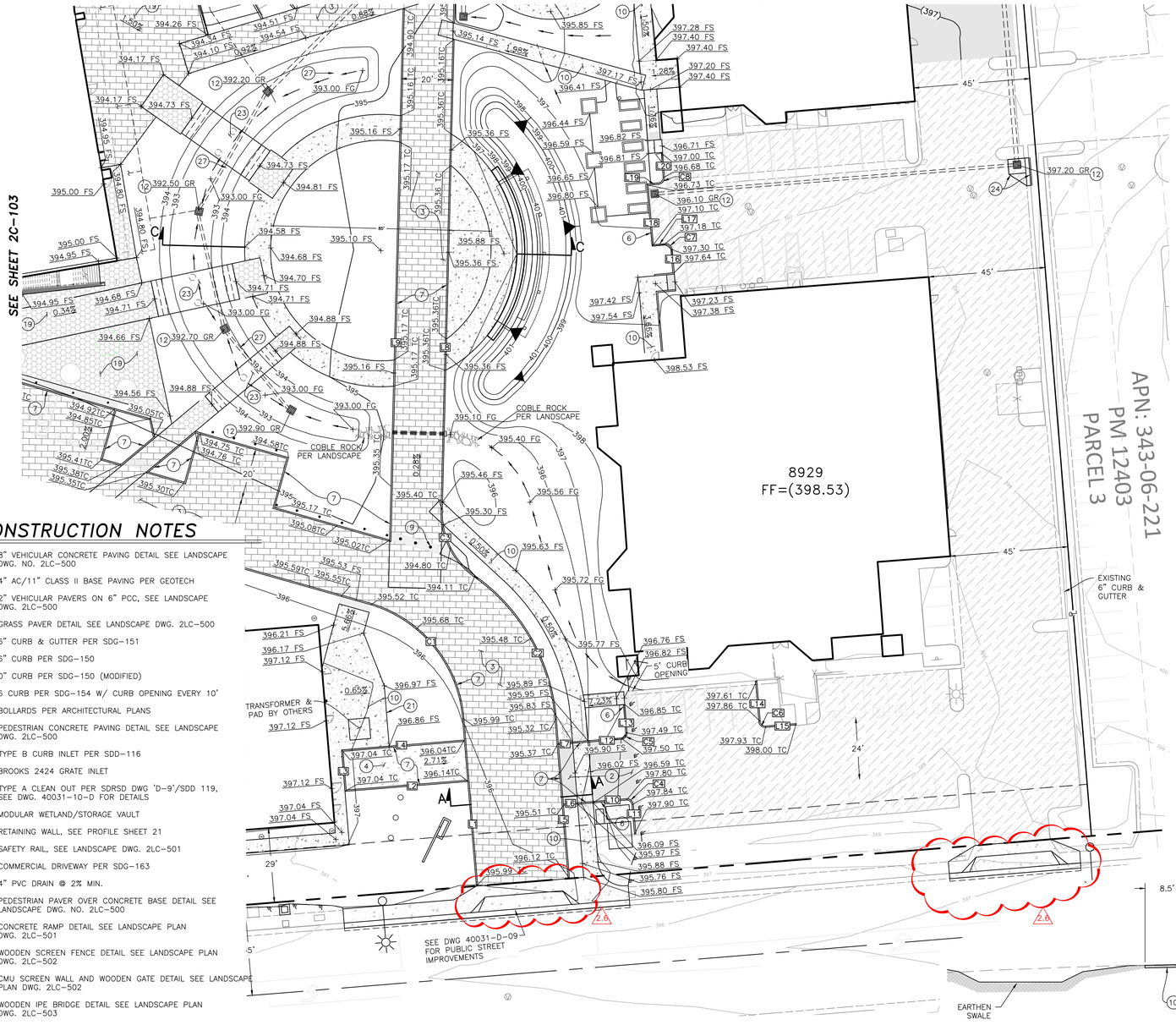

CONSTRUCTION NOTES

1. 8" VEHICULAR CONCRETE PAVING DETAIL SEE LANDSCAPE DWG. NO. 2LC-500
2. 4" AC/11" CLASS II BASE PAVING PER GEOTECH
3. 2" VEHICULAR PAVERS ON 6" PCC, SEE LANDSCAPE DWG. 2LC-500
4. GRASS PAVER DETAIL SEE LANDSCAPE DWG. 2LC-500
5. 6" CURB & GUTTER PER SDG-151
6. 6" CURB PER SDG-150
7. 0" CURB PER SDG-150 (MODIFIED)
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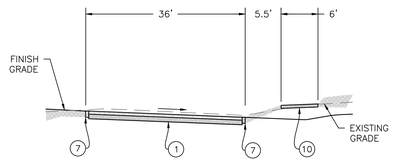
26. 8' NYOPLAST INLET W/ DUCTILE IRON GRATE
27. PVC STORM DRAIN PIPE SEE DWG. 40031-10-D FOR SIZE AND DETAILS

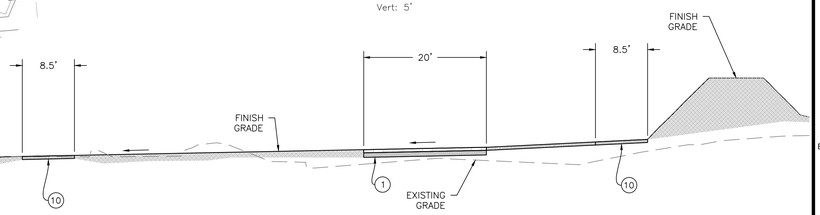
PRECISE GRADING PLAN

CURB DATA			
NUMBER	LENGTH	BEARING	DESCRIPTION
L1	64.94'	N04°43'33"W	0" CURB PER SDG-150
L2	47.50'	S85°23'26"W	0" CURB PER SDG-150
L3	16.00'	N04°40'48"W	0" CURB PER SDG-150
L4	47.52'	N85°23'26"E	0" CURB PER SDG-150
L5	61.94'	N04°43'33"W	0" CURB PER SDG-150
L6	11.50'	N85°16'27"E	0" CURB PER SDG-150
L7	11.50'	S85°16'27"W	0" CURB PER SDG-150
L8	181.79'	N01°26'31"E	0" CURB PER SDG-150
L9	205.75'	S01°26'31"W	0" CURB PER SDG-150
L10	12.87'	N85°16'27"E	6" CURB PER SDG-150
L11	11.42'	S04°56'44"E	6" CURB PER SDG-150
L12	12.78'	S85°16'27"W	6" CURB PER SDG-150
L13	10.77'	S04°45'31"E	6" CURB PER SDG-150
L14	15.73'	N04°45'31"W	6" CURB PER SDG-150
L15	11.76'	S85°31'47"W	6" CURB PER SDG-150
L16	9.50'	N05°02'01"W	6" CURB PER SDG-150
L17	4.56'	S84°57'59"W	6" CURB PER SDG-150
L18	18.92'	N05°02'01"W	6" CURB PER SDG-150
L19	4.08'	N84°29'24"E	6" CURB PER SDG-150
L20	9.53'	N04°07'00"W	6" CURB PER SDG-150

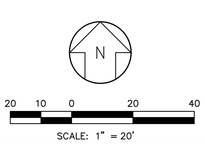
CURB DATA				
NUMBER	LENGTH	RADIUS	DELTA/BEARING	DESCRIPTION
C1	61.30	50.50	N39°29'55"W	0" CURB PER SDG-150
C2	64.88	74.50	N29°40'29"W	0" CURB PER SDG-150
C3	29.85	30.50	N26°35'27"W	0" CURB PER SDG-150
C4	3.92	2.50	S49°50'08"E	6" CURB PER SDG-150
C5	3.93	2.50	S40°15'28"W	6" CURB PER SDG-150
C6	3.91	2.50	N49°36'52"W	6" CURB PER SDG-150
C7	3.93	2.50	N50°02'01"W	6" CURB PER SDG-150
C8	3.93	2.50	N39°29'53"E	6" CURB PER SDG-150



SECTION A-A
Horiz: 10'
Vert: 5'



SECTION C-C
Horiz: 10'
Vert: 5'



GENE THEORY-
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1 / IFC
2.6	01.19.18	ASI 2.4

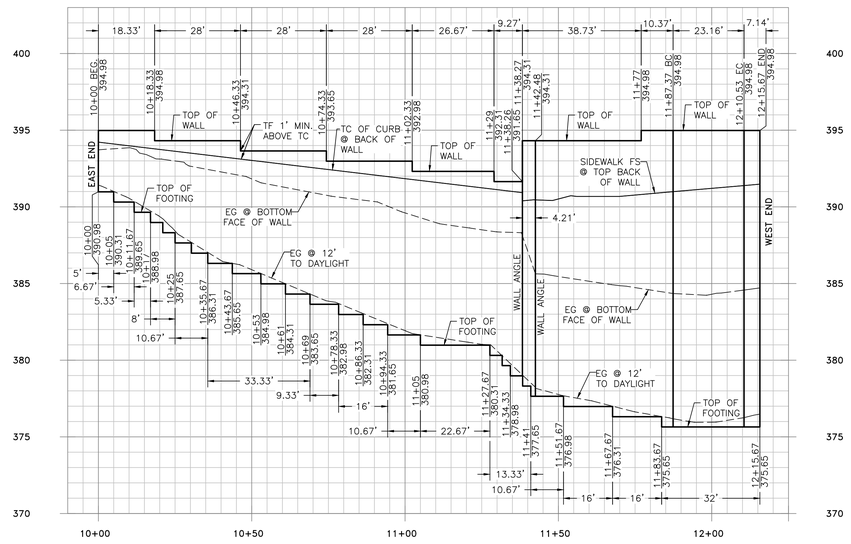
IFC 11.20.17

Sheet Title
PRECISE GRADING PLAN

Sheet No.
2C-104

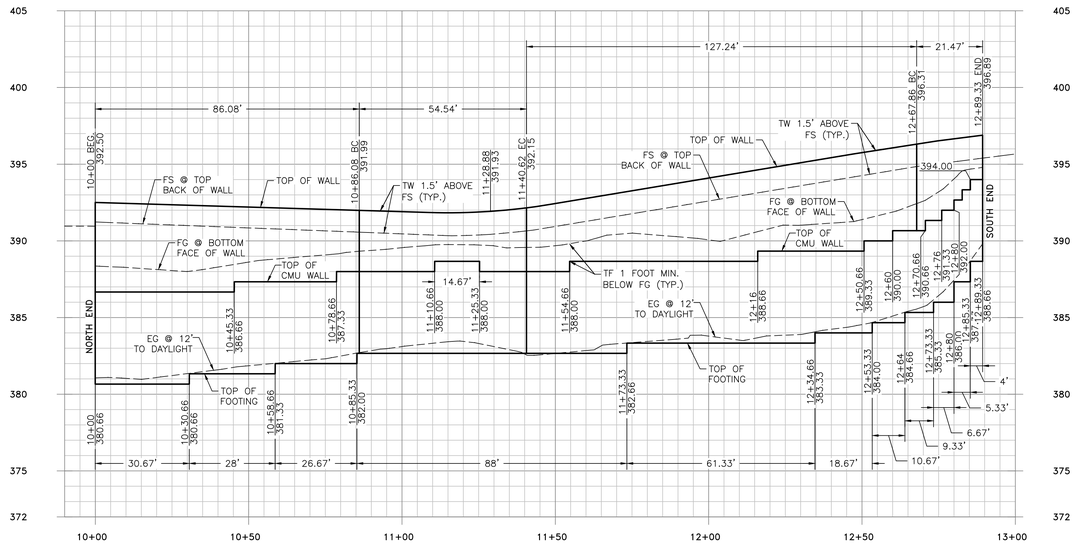
DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



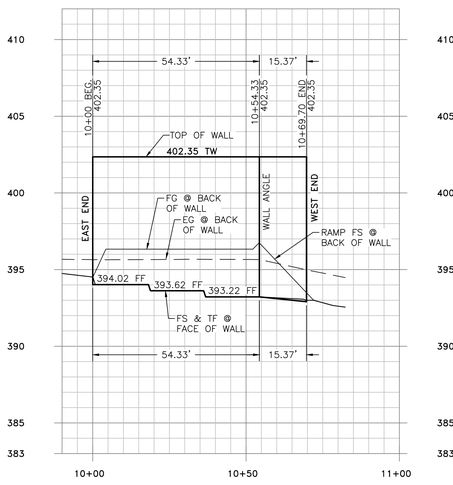
RETAINING WALL "A" (NORTH)

HORIZONTAL SCALE 1"= 20"
VERTICAL SCALE 1"= 4"



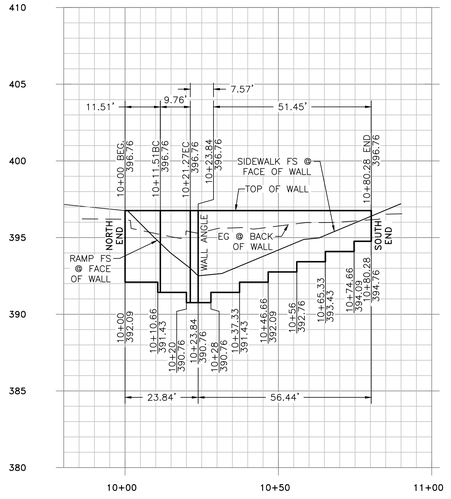
RETAINING WALL "B" (WEST)

HORIZONTAL SCALE 1"= 20"
VERTICAL SCALE 1"= 4"



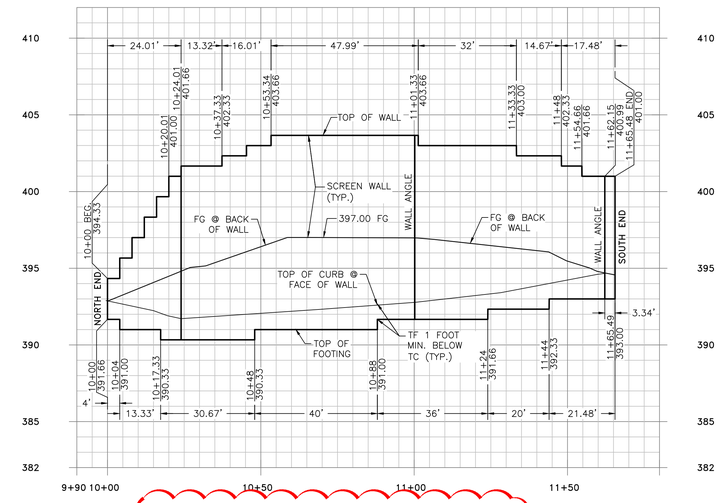
RETAINING WALL "C" (TRASH ENCLOSURE)

HORIZONTAL SCALE 1"= 20"
VERTICAL SCALE 1"= 4"



RETAINING WALL "D" (NORTH-WEST OF 8959 BLDG)

HORIZONTAL SCALE 1"= 20"
VERTICAL SCALE 1"= 4"



RETAINING WALL "E" (FRONT OF 8959 BLDG)

HORIZONTAL SCALE 1"= 20"
VERTICAL SCALE 1"= 4"

2.6

NOTE:
ALL RETAINING WALLS TO BE BUILT UNDER SEPARATE PERMIT

GENE THEORY-
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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2.3	11.20.17	ASI 2.1 / IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
RETAINING WALL PROFILE

Sheet No.
2C-301

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

GENE THEORY

CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

08.08.2017 CITY SUBMITTAL

Sheet Title

STORM WATER APPLICABILITY

Sheet No.

2C-801

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

CONSTRUCTION NOTES:

1. UNLESS SPECIFIED OTHERWISE, LANDSCAPE CONSTRUCTION AND LAYOUT WORK INCLUDES, BUT IS NOT LIMITED TO THE LOCATION, PLACEMENT AND DETAILING OF THE PAVING, CONCRETE MASONRY WALLS, CONCRETE MASONRY SEATWALLS, LANDSCAPE WALLS, AND CONSTRUCTION OF CERTAIN SPECIFIED SITE FURNITURE.
2. SEE CIVIL ENGINEER'S PLAN FOR PARKING AREA, RETAINING WALLS, SITE DRAINAGE AND GRADING, FINISH GRADING, SITE UTILITY LAYOUT AND CONSTRUCTION.
3. DIMENSIONS INDICATED ON PLANS SHALL PREVAIL OVER PLAN SCALE. DIMENSIONS ARE TO FACES OF AND PERPENDICULAR FACE OF BUILDING WALLS UNLESS SHOWN OTHERWISE. ALL ANGLES AND CONNECTIONS ARE (90) DEGREES UNLESS NOTED OTHERWISE. WALKS CONNECTING DOORS ARE TO BE ALIGNED WITH FACE OF BUILDING UNLESS NOTED OTHERWISE.
4. ALL COORDINATE POINTS AND DIMENSIONS ARE TAKEN FROM THE BACK OF CURB UNLESS OTHERWISE NOTED.
5. EXPANSION JOINTS SHALL BE AS LOCATED ON THE PLANS AND WHERE CONCRETE MEETS EXISTING WALLS, PAVING, OR OTHER HARD SURFACES. EXPANSION JOINTS SHALL BE SEALED TO PREVENT MOISTURE SEEPAGE AFTER CURING. EXPANSION JOINTS ON WALKS TO BE A MAXIMUM OF 30'-0" ON CENTER.
6. SCORE JOINTS SHALL BE AS SHOWN ON THE PLANS OR SET ON TYPICAL ON CENTER SPACING AND ALIGN WITH BUILDING EDGES.
7. CONSTRUCT EXPANSION, WEAKENED-PLANE (CONTRACTION) AND CONSTRUCTION JOINTS IN ACCORDANCE WITH SECTION 303- 5.4 OF (GREENBOOK) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
8. ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 2500 PSI AT 28 DAYS FOR SIDEWALKS UNLESS OTHERWISE INDICATED. FINISH SHALL BE AS NOTED ON PLANS.
9. CONCRETE PAVING SHALL HAVE FINISHED GRADES SMOOTHED TO ELIMINATE PUDDLING OR STANDING WATER. ALL FINISH SURFACES SHALL MAINTAIN A 1.5% SLOPE AWAY FROM BUILDINGS AND WALLS INTO DRAINAGE STRUCTURES AND SHALL HAVE A MAX. CROSS SLOPE OF 1.5%. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS MAINTAINING DRAINAGE.
10. LAYOUT POINTS OF ALL RADIUS SHALL BE CONNECTED BY SMOOTH EVEN LINES TO CREATE THE CURVED CONFIGURATION AS SHOWN ON THE PLANS.
11. SEE IRRIGATION PLANS FOR SLEEVE LOCATIONS PRIOR TO CONSTRUCTION.
12. SEE ELECTRICAL PLANS FOR CONDUIT AND LIGHT POLE LOCATIONS PRIOR TO CONSTRUCTION.
13. GRAFFITI PROTECTION: ALL VERTICAL MASONRY AND CONCRETE SURFACES, AND CONCRETE AMENITIES SUCH AS BUT NOT LIMITED TO TABLES, BENCHES, ETC. SHALL BE TREATED WITH A NON-SACRIFICIAL ANTI-GRAFFITI COATING. ANTI-GRAFITI COATING SHALL BE AS MANUFACTURED MY MONOPOLE, INC. OR EQUAL. MATERIALS SHALL BE APPLIED AS SPECIFIED BELOW:
    A. FIRST COAT: AQUASEAL ME12 (ITEM 5200).
    B. SECOND COAT: PERMASHIELD BASE (ITEM 6100).
    C. THIRD COAT: PERMASHIELD PREMIUM (ITEM 5600 FOR MATTE FINISH).
    D. FOURTH COAT: PERMASHIELD PREMIUM (ITEM 5600 FOR MATTE FINISH).
14. NO DEVIATIONS FROM PLANS SHALL OCCUR WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE.
15. ANY PROPOSED WORK THAT IS INCONSISTENT WITH COMMON, SAFE CONSTRUCTION PRACTICES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH CONSTRUCTION.
16. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL FIELD CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
17. CONTRACTOR SHALL REVIEW PLANS AND DETAILS TO ASCERTAIN LOCATIONS NECESSARY TO PROVIDE ELECTRICAL CONNECTIONS TO POWER IRRIGATION, LIGHTING, ETC.
18. CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL SITE UTILITIES PRIOR TO CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IMMEDIATELY.
19. THE CONTRACTOR SHALL HAVE THE OWNER'S REPRESENTATIVE VERIFY ALL CONSTRUCTION STAKING LOCATIONS PRIOR TO INSTALLATION OF ALL PAVING.
20. ALL HARDWARE SUCH AS NAILS, BOLTS, FASTENERS ETC. SHALL BE STAINLESS STEEL UNLESS OTHERWISE NOTED.
21. THE CONTRACTOR SHALL PROVIDE A 6'X6' MOCK UP OF ALL PAVING MATERIALS, SEAT WALLS AND RETAINING WALLS INCLUDING TIMBER FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
22. FABRICATION OF MEMBERS AND ASSEMBLIES DONE IN A FABRICATOR'S SHOP, APPROVED BY INSPECTION SERVICES, NEED NOT HAVE CONTINUOUS OR PERIODIC SPECIAL INSPECTION. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT THE 'CERTIFICATE OF COMPLIANCE' FORM TO INSPECTION SERVICES.
23. SPECIAL INSPECTOR SHALL VERIFY THAT FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR FABRICATOR'S SCOPE OF WORK.
    A. FABRICATOR SHALL SUBMIT AN 'APPLICATION TO PERFORM OFF-SITE FABRICATION' TO THE INSPECTION SERVICES DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION.
    B. FABRICATOR MUST BE REGISTERED AND APPROVED BY REDWOOD CITY, DEVELOPMENT SERVICES FOR THE FABRICATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE FABRICATOR'S SHOP.
    C. FABRICATOR SHALL SUBMIT A 'CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION' TO THE INSPECTION SERVICES DIVISION PRIOR TO ERECTION OF FABRICATED ITEMS AND ASSEMBLIES.
    D. ADHESIVES, SEALANTS AND CAULKS. ADHESIVES AND SEALANTS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS. (SECTION 5.504.4.1 OF CAL GREEN) ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS, AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1 AND 5.504.4.2 OF CALGREEN. (SEC. 5.504.4.1).
    E. A LETTER FROM THE CONTRACTOR CERTIFYING WHAT MATERIAL HAS BEEN USED AND ITS COMPLIANCE WITH THE CODE MUST BE SUBMITTED TO THE BUILDING INSPECTOR.
24. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANTS OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.
    A. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH TABLE 5.504.4.2 UNLESS MORE STRINGENT LOCAL LIMITS APPLY (SECTION 5.504.3 OF CALGREEN).
    B. AEROSOL PAINTS AND COATINGS. AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(3) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES (CCR, TITLE 17, SECTION 94520 ET SEQ). (SECTION 5.504.4.3.1 OF CALGREEN).
    C. A LETTER FROM THE CONTRACTOR AND OR THE BUILDING OWNER CERTIFYING WHAT PAINT HAS BEEN USED AND ITS COMPLIANCE WITH THE CODE MUST BE SUBMITTED TO THE BUILDING INSPECTOR.
25. CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL APPLICABLE FEES TO CONSTRUCT THE PLANS HEREIN.
26. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING AND RE-STAKING REQUIRED TO COMPLETE THE PROJECT TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. THE LANDSCAPE ARCHITECT WILL PROVIDE CAD FILES FOR DEVELOPMENT OF A CERTIFIED HORIZONTAL CONTROL PLAN.
27. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AS NECESSARY.
28. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR LANDSCAPE ARCHITECT REVIEW AND APPROVAL FOR DETAILS AS NOTED ON PLANS AND SPECIFICATIONS.
29. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEANUP OF THE SITE AND PROVIDING ADEQUATE SAFETY MEASURES DURING CONSTRUCTION ON A 24 HOUR BASIS.
30. ANY CREDITS AND/OR DEBTS SHALL BE REPORTED TO LANDSCAPE ARCHITECT AND OWNER AT A TIME OF OCCURRENCE FOR PROPER VERIFICATION AND/OR APPROVAL PRIOR TO COMMENCEMENT OF RESULTING ACTION.
31. CONTRACTOR SHALL PROVIDE A 24 HOUR PHONE NUMBER IN CASE OF EMERGENCY.
32. CONTRACTOR TO PROVIDE SAMPLES OF MATERIAL AND FINISHES (STAINS, PAVERS, SIGNAGE MATERIALS, ETC.) FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE.

TREE PROTECTION NOTES

1. SEE DEMOLITION PLAN FOR TREES TO BE PROTECTED IN PLACE. SEE LANDSCAPE PLANTING PLAN FOR TREE SPECIES.
2. CONTRACTOR SHALL PROVIDE A TEMPORARY IRRIGATION SYSTEM FOR EXISTING TREES ON SITE THROUGHOUT THE DURATION OF CONSTRUCTION.
3. REFER TO PLANTING PLAN FOR TREE LAYOUT INFO.
4. FINAL LOCATION AND STAKING OF ALL PLANT MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
5. ARRANGE FOR VISIT OF LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR MUST GIVE TWO DAYS ADVANCED NOTICE TO LANDSCAPE ARCHITECT FOR PLANTING LAYOUT REVIEW ON SITE.
6. SEE SPECIFICATIONS FOR PLANTING REQUIREMENTS, SOIL PREPARATION, TESTING, MATERIALS AND EXECUTION.
7. SEE DETAILS AND SPECIFICATIONS FOR STAKING METHOD, PLANT PIT, DIMENSIONS, AND BACKFILL REQUIREMENTS.
8. THE CONTRACTOR IS RESPONSIBLE FOR PLANTING THE MATERIALS AT THE CORRECT GRADES AND SPACING.
9. WHEN THE PLANT HAS BEEN PROPERLY SET, THE PIT SHALL BE BACKFILLED WITH A TOPSOIL MIXTURE, GRADUALLY FILLING, PATTING, AND SETTLING WITH WATER.
10. TREE PROTECTION FENCE TO BE INSTALLED AT BOUNDARIES OF ALL CRITICAL ROOT ZONES WITHIN TREE DRIP CANOPY DRIP LINE OR 5X THE DIAMETER OF TREE TRUNK, WHICHEVER IS GREATER.
11. WHERE FEASIBLE, ALL WORK WITHIN CRITICAL ROOT ZONE SHALL BE DONE USING HAND TOOLS. WORK SHALL BE DONE IN A MANNER TO MINIMIZE DISTURBANCE OF TREE ROOTS AND SOIL.
12. DO NOT PRUNE OR TRIM TREES. DO NOT SCUFF OR TEAR TREE ROOTS. DO NOT CUT OR DAMAGE ROOTS 1" IN DIAMETER OR LARGER.
13. EQUIPMENT AND VEHICLES SHALL STAY OUT OF CRITICAL ROOT ZONE TO AVOID SCORCHING OF FOLIAGE, TWIGS AND LIMBS CAUSED BY EXHAUST. DO NOT DAMAGE TREE TRUNKS AND LIMBS BY CONTACT WITH EQUIPMENT AND VEHICLES.
14. DO NOT DEPOSIT SOLVENTS, FUELS, POWDERED LIME OR OTHER HARMFUL MATERIALS IN OR NEAR TREE ROOT ZONE OR IN AREAS WHERE SUCH MATERIALS WILL LEAK OR WASH INTO TREE ROOT ZONE.
15. DO NOT PLACE SOIL IN EXCESS OF 3" ABOVE EXISTING GRADE IN CRITICAL ROOT ZONE.
16. DEMOLITION SHALL BE ACCOMPLISHED WITHOUT HARM TO TREE ROOTS AND SOILS. HEAVY EQUIPMENT MAY BE USED ONLY IF REMOVAL CAN BE ACCOMPLISHED WITHOUT DAMAGE TO TREE ROOTS AND SOILS. IF REMOVAL CANNOT BE ACCOMPLISHED WITHOUT DAMAGE TO TREE ROOTS AND SOILS, CONCRETE SHALL BE REMOVED BY HAND.
17. WHEN TRENCHING WITHIN CRITICAL ROOT ZONE, USE HAND TOOLS ONLY. TUNNEL UNDER AND AROUND ROOT 1" IN DIAMETER OR LARGER.
18. WHEN GRADING OR PLANTING WITHIN CRITICAL ROOT ZONE, USE HAND TOOLS ONLY. REMOVE EXISTING PLANT MATERIAL AND SOIL USING HAND TOOLS ONLY. REMOVE NO MORE THAN 2" SOIL AND REPLACE WITH NO MORE THAN A COMBINED TOTAL OF 4" PREPARED BEDDING MIX AND SURFACE MULCH. MULCH AND SOIL SHALL NOT CONTACT TREE TRUNKS OR COVER EXPOSED SURFACE ROOTS.
19. WHEN PLANTING WITHIN CRITICAL ROOT ZONE DIG INDIVIDUAL, SHALLOW PLANTING HOLES TO MINIMIZE DISTURBANCE OF EXISTING TREE ROOTS. ADJUST PLANTING HOLES TO ACCOMMODATE ROOTS MEASURING 1" IN DIAMETER OR LARGER.
20. MACHINE TILLING IN TREE ROOT ZONE IS PROHIBITED. EXISTING SOIL MAY BE TILLED USING A HAND HELD FORK TO A MAXIMUM DEPTH OF 2".
21. ANY TREES DAMAGED DURING CONSTRUCTION WILL BE REMOVED AND REPLACED WITH SAME SPECIES OF EQUAL SIZE AND HEALTH (72" BOX MIN). LANDSCAPE ARCHITECT TO REVIEW AND APPROVE ANY REPLACEMENT PLANT MATERIAL PRIOR TO PLACEMENT.

AREA UNDER SEPARATE PERMITS:
SEE PTS #542454 FOR GRADING

SEE PTS #567287 FOR CP1 TENANT IMPROVEMENT

SEE PTS # 567309 FOR THE FOLLOWING:
CP2 LAB AND OFFICE BUILDING
MONUMENT WALL
PEDESTRIAN AND LANDSCAPE BRIDGES
GENERATOR
TRASH ENCLOSURE

SEE PTS #553565 FOR PARKING STRUCTURE

SEE SHEET 7LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 7LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 7LC-100-7LC-105 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 7LC-400-7LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 7LC-500-7LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

REFERENCE NOTE SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1	VEHICULAR CONCRETE PAVING #1, REINFORCED, 8" THICK. INTEGRAL COLOR: `SANDSTONE` #5237 BY DAVIS COLORS. FINISH: GRACE TOP CAST #125.	1,3,4 / 2LC-500
2	VEHICULAR CONCRETE PAVING #2, 8" THICK. INTEGRAL COLOR: `SANDSTONE` #5237 BY DAVIS COLORS. FINISH: GRACE TOP CAST #5.	1,3,4 / 2LC-500
3	VEHICULAR CONCRETE PAVING #3, 8" THICK. INTEGRAL COLOR: `SANDSTONE` #5237 BY DAVIS COLORS. FINISH: GRACE TOP CAST #5.	1,3,4 / 2LC-500
4	INTEGRAL COLOR PEDESTRIAN CONCRETE, REINFORCED, 4.5" THICK. COLOR: `SANDSTONE` #5237 BY DAVIS COLORS. FINISH: GRACE TOP CAST #5.	1,2,4 / 2LC-500
5	STABILIZED DECOMPOSED GRANITE PAVING WITH METAL EDGING. COLOR: DUNE. AVAILABLE THROUGH DECORATIVE STONE SOLUTIONS OR EQUAL. PHONE: (800) 699-1878	5/2LC-509
6	VEHICULAR PAVERS OVER CONCRETE SLAB, 12" X 24" X 2" THICK PAVERS OVER 6" CONCRETE SLAB. COLOR: NASSAU. MODEL #; TRAILS. FINISH: FLEKK. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500
7	PEDESTRIAN PAVERS, 12" X 24" X 1" THICK PAVERS. COLOR: NASSAU. MODEL #; TRAILS. FINISH: FLEKK. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500
8A	PEDESTRIAN PAVERS, 12" X 24"X 1" THICK PAVERS. FIELD COLOR: IVORY. FIELD MODEL #: TRAILS. FIELD FINISH: FLEKK. ACCENT COLOR: IVORY. ACCENT MODEL #: ZUMA. ACCENT FINISH: RIBBED. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500
8B	VEHICULAR PAVERS OVER CONCRETE SLAB, 12" X 24" X 2" THICK PAVERS OVER 6" CONCRETE SLAB. FIELD COLOR: IVORY. FIELD MODEL #: TRAILS. FIELD FINISH: FLEKK. ACCENT COLOR: IVORY. ACCENT MODEL #: ZUMA. ACCENT FINISH: RIBBED 90. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500
9	72" DIA. ROUND TREE GRATE WITH TWO BOLT-DOWN ACCESS PANELS AND TREE GRATE FRAME WITH STEEL ANGLE. MODEL #: 7203 OLYMPIAN. FINISH: IRON. TREE OPENING: 26". AVAILABLE THROUGH: IRONSMITH. PHONE: 800-338-4766	5,6 / 2LC-503
10	PEDESTRIAN PAVERS OVER PODIUM. 12" X 24" X 2" THICK PAVERS. COLOR: PENNY LANE. MODEL #: COOL ROOF ARCHITECTURAL PAVERS. AVAILABLE THROUGH: TILE TECH. PHONE: (213) 380-5560	1-3 / 2LC-501
11	NATURAL GREY PEDESTRIAN CONCRETE, REINFORCED, 4.5" THICK. FINISH: ACID ETCH #5.	1,2,4 / 2LC-500
12	INTEGRAL COLOR CONCRETE STAIRS WITH 1 1/4" STAINLESS STEEL HANDRAILS. FINISH: ACID ETCH #5. COLOR: `SANDSTONE` #5237 BY DAVIS COLORS.	1/2LC-502
13	INTEGRAL COLOR CONCRETE SEAT WALL. FINISH: ACID ETCH #5. COLOR: `SANDSTONE` #5237 BY DAVIS COLORS.	1/2LC-505
14A	INTEGRAL COLOR CONCRETE PLANTER WALL WITH LIGHT REVEAL. FINISH: ACID ETCH #5. COLOR: `SANDSTONE` #5237 BY DAVIS COLORS.	3/2LC-505
14B	INTEGRAL COLOR CONCRETE PLANTER WALL. FINISH: ACID ETCH #5. COLOR: `SANDSTONE` #5237 BY DAVIS COLORS.	2/2LC-505
15	INTEGRAL COLOR BACKED CONCRETE SEAT WALL. FINISH: ACID ETCH #5. COLOR: `SANDSTONE` #5237 BY DAVIS COLORS. PROVIDE SUNBRELLA CUSHIONS.	4/2LC-505
16	IPE WOOD PEDESTRIAN BRIDGE OVER SWALE.	1,4 / 2LC-503 2 / 2S-544
17	IPE WOOD DECK PAVERS OVER PODIUM. 24" X 24" PAVERS. FINISH: SMOOTH. AVAILABLE THROUGH: TILE TECH. PHONE: (213) 380-5560	3-5 / 2LC-501
18	PARKING STALLS, SEE CIVIL PLANS FOR ADDITIONAL INFORMATION.	
19	CUSTOM STEEL AND TIMBER SHADE STRUCTURE BY ICON - PER SEPARATE PERMIT. AVAILABLE THROUGH COAST RECREATION, CONTACT: CHAD BARRY (714) 619-0100 EXT. 205	1/2LC-508
20	LIGHTING PER ELECTRICAL PLANS.	2,4 /2LC-504
21	5" STAINLESS STEEL SECURITY BOLLARD, MODEL #: SSF05080. AVAILABLE THROUGH: CAL PIPE. PHONE: (562) 803-4388. INSTALL PER MANUFACTURER`S RECOMMENDATION.	3/2LC-504
22	REMOVEABLE INTERNAL LOCKING STAINLESS STEEL SECURITY BOLLARD, MODEL #: SSR05080. AVAILABLE THROUGH: CAL PIPE. PHONE: (562) 803-4388. INSTALL PER MANUFACTURER`S RECOMMENDATION.	1/2LC-504
23	ENTRY MONUMENT SIGNAGE WITH LIGHTING & STAINLESS STEEL PIN MOUNTED LETTERING. INTEGRAL COLOR CONCRETE: `SANDSTONE` #5237 BY DAVIS COLORS. FINISH: ACID ETCH #5. PLANTER: 12 GA GALVANIZED SHEET METAL VENEER. COLOR: PAINT WARM GRAY TO MATCH ARCH COLUMN COVERS. LETTERING PER SEPARATE PERMIT.	1/2LC-509 22,23/2S-544
24	VEHICULAR TURFBLOCK TO BE `GRASS PAVE 2` BY INVISIBLE STRUCTURES, INC. PHONE: 1 (800) 233-1510	6/2LC-500
25A	ASPHALT PAVING. SEE CIVIL PLANS.	
25B	CONCRETE PAVING. SEE CIVIL PLANS.	
26A	COMMUNITY GARDEN, RAISED VEGETABLE PLANTER BOX. SEE DETAIL FOR COLOR AND FINISH.	4/2LC-509
26B	COMMUNITY GARDEN, ADA ACCESSIBLE RAISED VEGETABLE PLANTER BOX. SEE DETAIL FOR COLOR AND FINISH.	3 /2LC-509
27	GREEN WALL. MODEL #: VGM AVAILABLE THROUGH: TOURNESOL SITEWORKS. CONTACT JON WILLINGHAM, PHONE: (800)-542-2282 EXT. 153. UNDER SEPARATE PERMIT.	1/2LC-506 1/2LP-507
28	30` HGT. STANDARD ALUMINUM FLAGPOLE. AVAILABLE THROUGH: L.PH. BOLANDER & SONS. PHONE: (800) 434-5611.	2/2LC-509 27/2S-544

SYMBOL	DESCRIPTION	DETAIL
29A *	`CORONADO` CLUB CHAIR. COLOR: TBD. AVAILABLE THROUGH SUNSET WEST, OR APPROVED EQUAL.PHONE: 760-599-1021.	O.F.O.I.
29B *	`CORONADO` LARGE SOFA. COLOR: TBD. AVAILABLE THROUGH SUNSET WEST, OR APPROVED EQUAL.PHONE: 760-599-1021.	O.F.O.I.
30 *	`CORONADO` COFFEE TABLE. COLOR: TBD. AVAILABLE THROUGH SUNSET WEST, OR APPROVED EQUAL. PHONE: 760-599-1021.	O.F.O.I.
31 *	10` X 3` OUTDOOR IPE WOOD DINING TABLE WITH SILK-SCREENED GAMING SURFACE. MATCHING MOVEABLE IPE BENCH SEATS.	O.F.O.I.
32 *	SEGNO ARMCHAIR #268 WITH GLOSSY ALUMINUM FINISH AND 28" SEGNO SQUARE TABLE #852 WITH GLOSSY ALUMINUM FINISH BY EMU AMERICAS. CONTACT: (800)726-0368.	O.F.O.I.
33	COBBLE MULCH - `CUYAMACA RUBBLE` 3"-6" AVAILABLE THROUGH: DECORATIVE STONE SOLUTIONS. PHONE: 800-699-1878.	5/2LC-505
34 *	70" BACKED BENCH. MODEL: `FGP` WITH IPE WOOD SLATS. AVAILABLE THROUGH: LANDSCAPE FORMS. PHONE: (800) 430-6209	O.F.O.I.
35	6" WIDE ZERO EDGE CURB	
36A	DETECTABLE WARNING TRUNCATED DOME PAVERS OVER CONCRETE SLAB, MODEL: ADA-3. COLOR: DARK GRAY A-90. AVAILABLE THROUGH: WAUSAU TILE. PHONE:: (800) 388-8728. INSTALL PER MANUFACTURER`S RECOMMENDATIONS.	7/2LC-500
36B	DETECTABLE WARNING TRUNCATED DOME PAVERS OVER CONCRETE SLAB. MODEL: ADA-3. COLOR: YELLOW A-110. AVAILABLE THROUGH: WAUSAU TILE. PHONE:: (800) 388-8728. INSTALL PER MANUFACTURER`S RECOMMENDATIONS.	7/2LC-500
37	LIGHT POLE. 16`-0" MAX HEIGHT. SEE ELECTRICAL PLANS.	4/2LC-504
38	EXISTING LIGHT POLE TO REMAIN. SEE ELECTRICAL PLANS.	
39	BOCCE COURT WITH DECOMPOSED GRANITE AND WOODEN CURB. DG COLOR: `DUNE` FROM DECORATIVE STONE SOLUTIONS.	3/2LC-503
40	BICYCLE RACK. MODEL: `CAPITAL` BY FORMS AND SURFACES. POWDER COAT GRAY. PHONE: 800-451-0410. QUANTITY - 5	5/2LC-504
41	EXISTING SIDEWALK TO REMAIN.	
42	EXISTING CURB TO REMAIN.	
43	EXISTING ASPHALT PAVING TO BE PATCHED AND RE-STRIPED. SEE CIVIL PLANS.	
44	EXISTING PLANTER AND TREE TO REMAIN	
45	CMU WALL WITH PLASTER FINISH ON EAST AND SOUTH SIDE TO MATCH ACHITECTURAL PLASTER FINISH. EXPOSED CMU ON WEST AND NORTH SIDE. SEE CIVIL PLANS FOR STRUCTURAL INFORMATION	SEE STRUCTURAL PLANS 7S-543
2.6 46	VEHICULAR GATE WITH WESTERN RED CEDAR PLANKING.	3/2LC-502
47	ACCENT FENCE WITH SWING GATE & WESTERN RED CEDAR VENEER.	6/2LC-509
48	CONCRETE MOW CURB. NATURAL GREY.	10/2LC-500
49	HOSE BIB AT COMMUNITY GARDEN	
50	DUAL FLOW WASTE RECEPTACLE. MODEL #: "ORBIT" DUAL FLOW. COLOR AND FINSH: STAINLESS STEEL WITH SANDSTONE FINISH AND `SCAPE` PERFORATION. AVAILABLE THROUGH: FORMS AND SURFACES.	/
51	60" DIAMETER X 42" HEIGHT LITE CRETE PLANTER. MODEL: CASCADE. COLOR: NATURAL. AVAILABLE THROUGH QUICK CRETE. PHONE: (866) 703-3434.	
52	CONCRETE AND IPE WOOD AMPHITHEATER SEATING AT SHADE STRUCTURE.	1/2LC-507
53	AMPHITHEATER SEATING AT GREEN WALL	2/2LC-506
54A	CMU RETAINING WALL. SEE CIVIL PLANS.	SEE STRUCTURAL PLANS 7S-543
54B	CMU RETAINING WALL WITH TUBULAR STEEL GUARDRAIL. SEE CIVIL PLANS.	8/2LC-501 7S-543
55	CAST IN PLACE CONCRETE WALL. SEE CIVIL AND ARCHITECTURAL PLANS.	
56	RAMP WITH STAINLESS STEEL HANDRAILS	7/2LC-501
57	POST AND CABLE GUARD RAIL ON WALL	2/2LC-502
59	ISA SIGN	8/2LC-500
60	ACCESSIBLE PARKING SIGN	9/2LC-500
61	TRASH ENCLOSURE: CMU WALL WITH PLASTER FINISH. SEE ARCHITECTURAL PLANS.	SEE STRUCTURAL PLANS 18/2S-543
62	CAST IN PLACE CONCRETE WALL. SEE ARCHITECTURAL AND STRUCTURAL PLANS.	SEE STRUCTURAL PLANS 2S-543
63	CAST IN PLACE CONCRETE PLANTER OVER PODIUM. FINISH: ACID ETCH #5. INTEGRAL COLOR: `SANDSTONE` #5237 BY DAVIS COLORS.	6/2LC-501
64	CONCRETE SCORE JOINT	1-3/2LC-500
65	CONCRETE EXPANSION JOINT	4/2LC-500
66	1/8" STEEL EDGING. UNPAINTED DURAEDGE AVAILABLE THROUGH J.D. RUSSELL CO. OR APPROVED EQUAL. PH: 800-888-7425.	6/2LC-504
67	STANDARD GRAY POROUS PEDESTRIAN CONCRETE.	7/2LC-504

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	12.13.17	PLAN CHECK SUBMITTAL
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
LANDSCAPE CONSTRUCTION NOTES & LEGEND

Sheet No.
2LC-001

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

2LC-100

2LC-101

2LC-102

2LC-103

2LC-104

2LC-105

G2

GSB

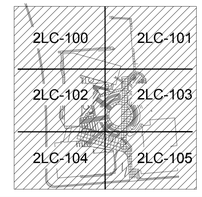
SEE INSET
MAP 2LC-106

2.3

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES

GREEN ROOF INSET MAP
SEE 2LC-106

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS



0 15 30 60
SCALE : 1" = 30'-0"

NORTH

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
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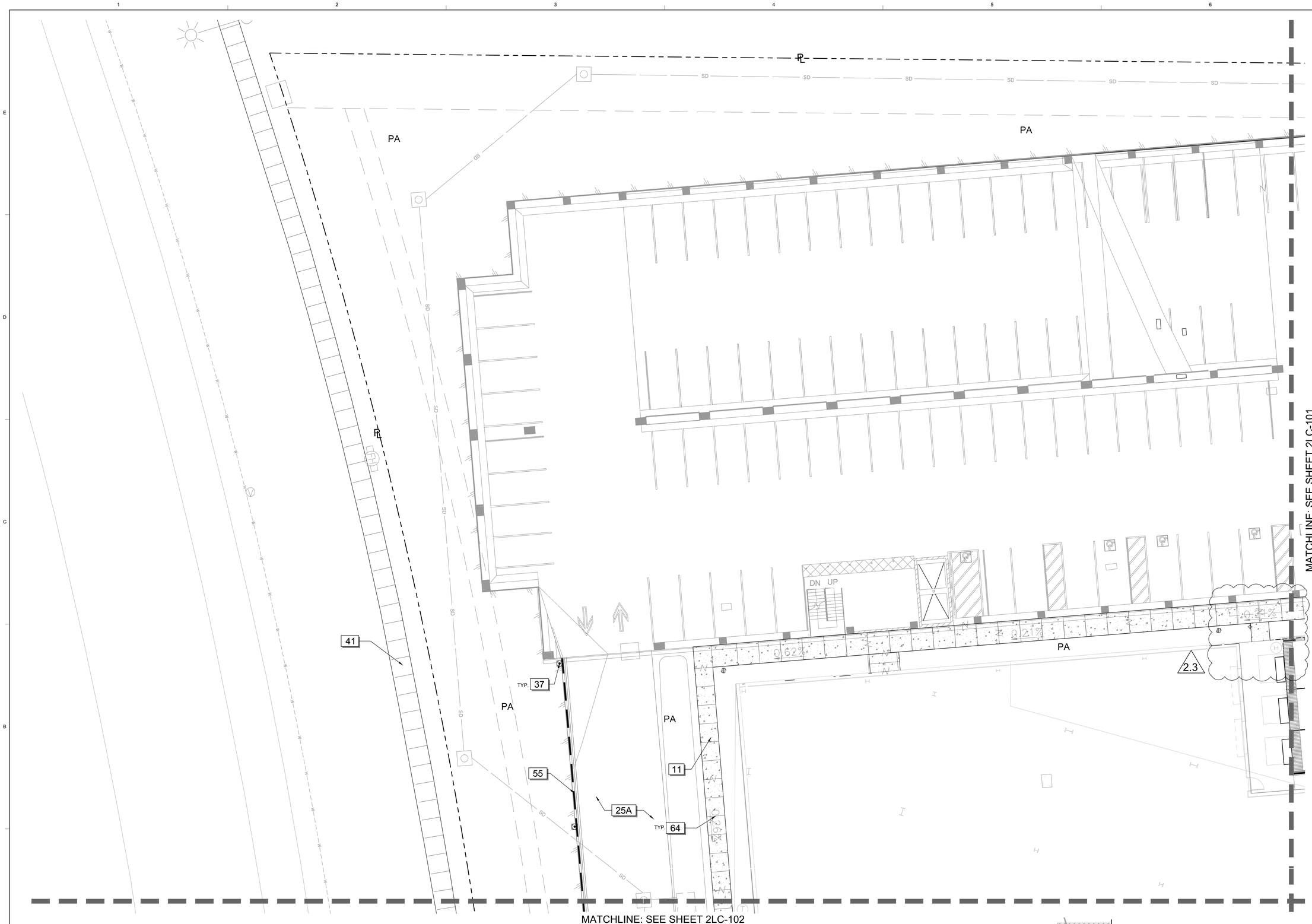
2.3	11.20.17	ASI 2.1/IFC

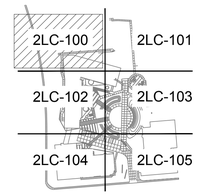
CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE CONSTRUCTION OVERALL SITE PLAN

Sheet No.
2LC-002

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002





SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE CONSTRUCTION PLAN

Sheet No.
2LC-100

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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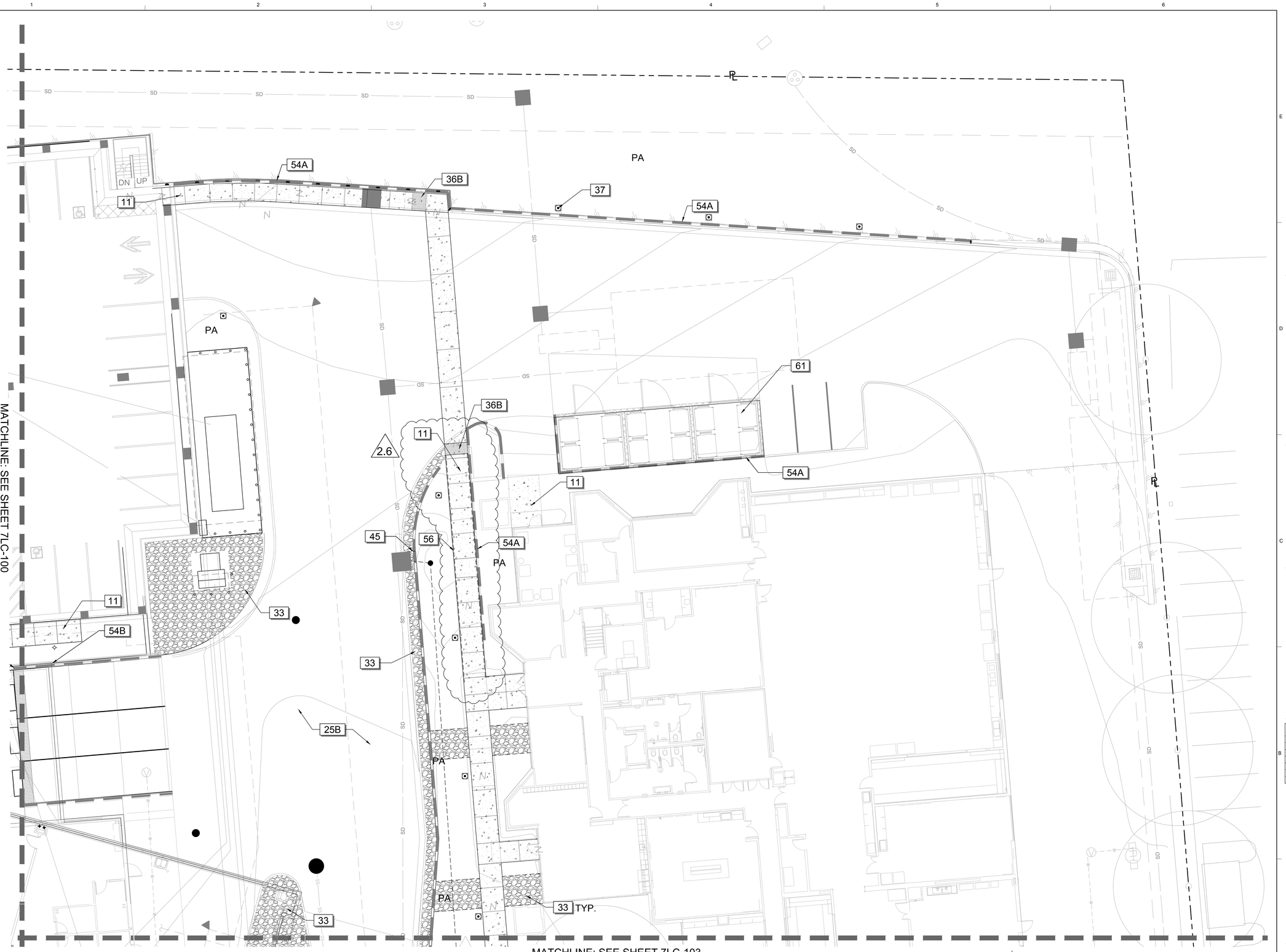
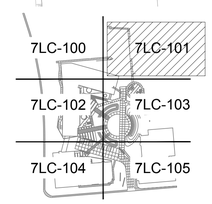


SEE SHEET 7LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 7LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 7LC-100-7LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 7LC-400-7LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 7LC-500-7LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS



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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
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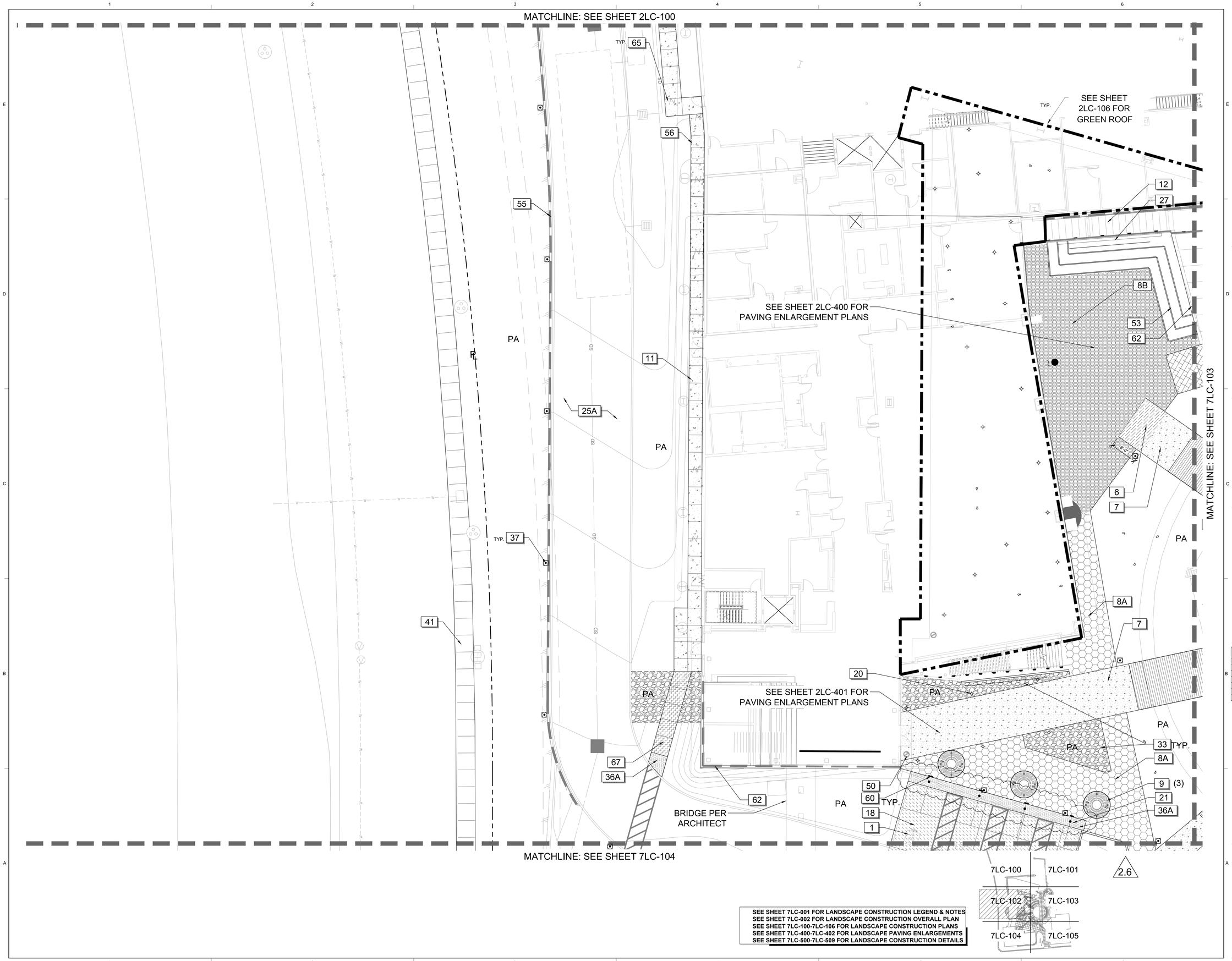
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
LANDSCAPE CONSTRUCTION PLAN

Sheet No.
2LC-101

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002



SEE SHEET 7LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 7LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 7LC-100-7LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 7LC-400-7LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 7LC-500-7LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

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REV NO.	DATE ISSUED	REASON
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2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

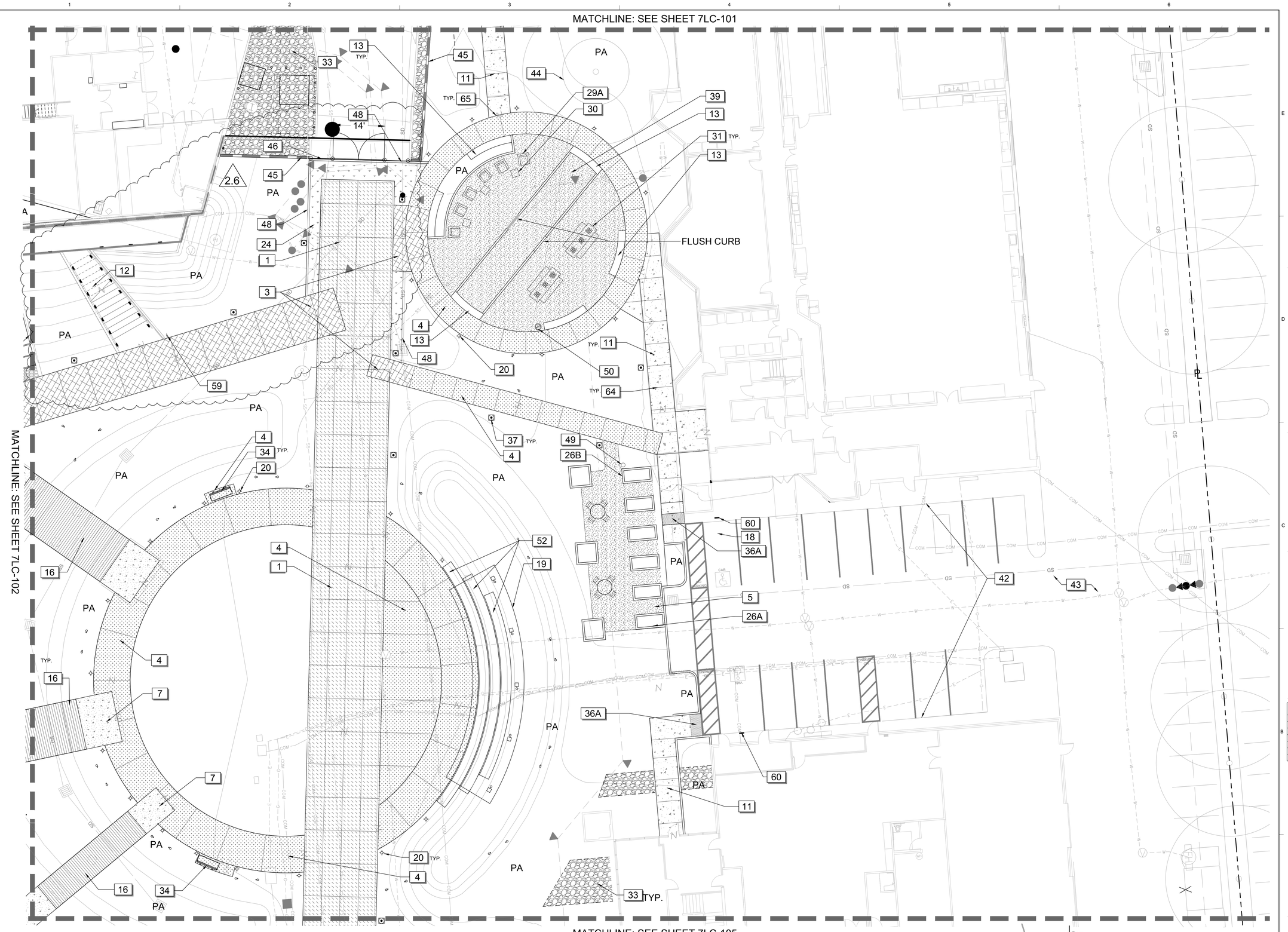
Sheet Title
LANDSCAPE CONSTRUCTION PLAN

Sheet No.
2LC-102

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



SEE SHEET 7LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 7LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 7LC-100-7LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
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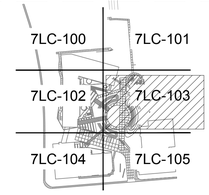
SEE SHEET 7LC-500-7LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS



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CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
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2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

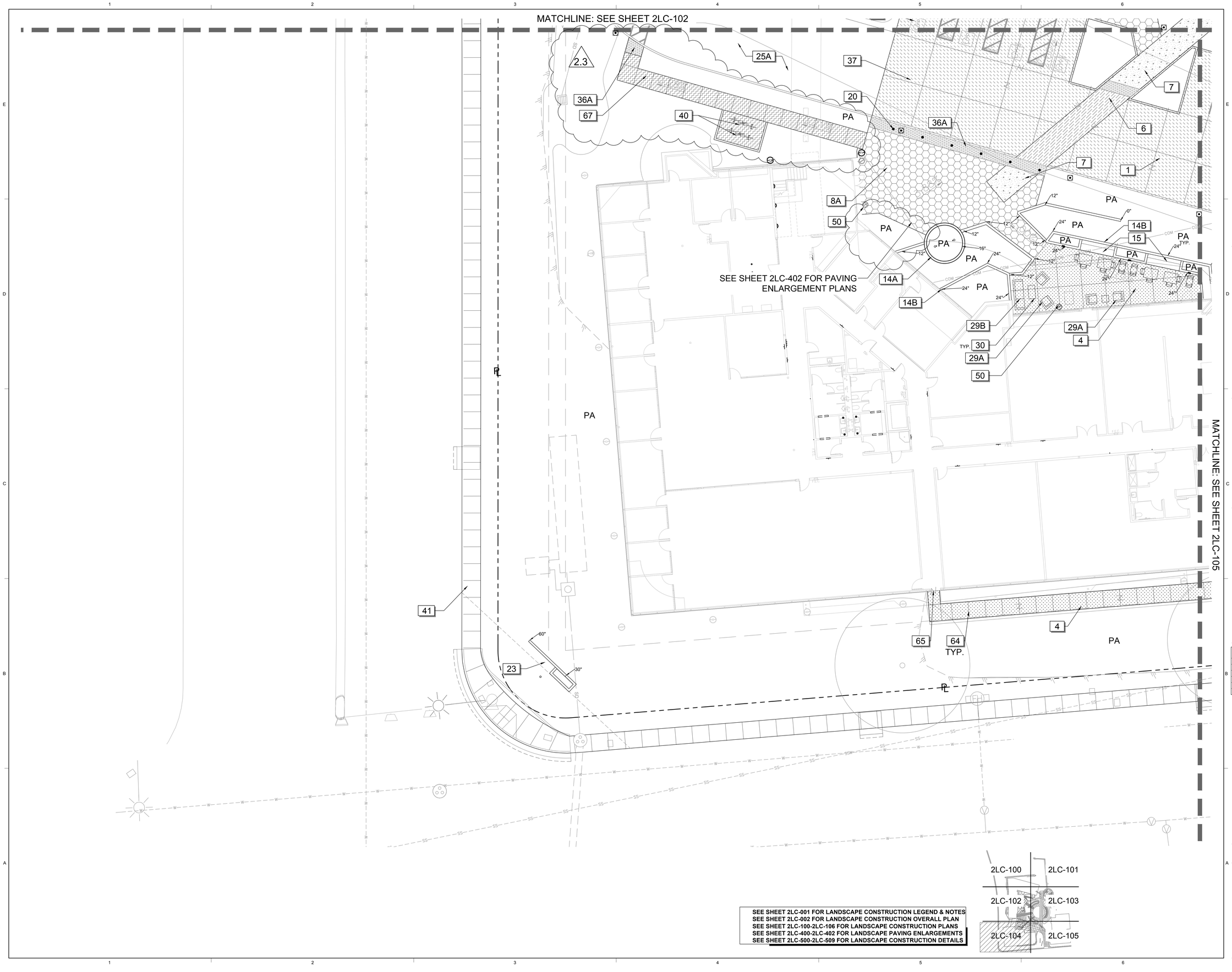
IFC 11.20.17

Sheet Title
LANDSCAPE CONSTRUCTION PLAN

Sheet No.
2LC-103

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

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REDWOOD CITY, CA 94063

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REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE CONSTRUCTION PLAN

Sheet No.
2LC-104

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

MATCHLINE: SEE SHEET 2LC-103

MATCHLINE: SEE SHEET 2LC-104

EXISTING UTILITY TO REMAIN

PA

2.6

24"

30"

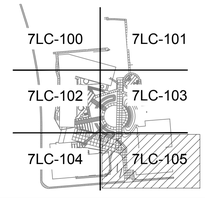
60"

4.4%

TYP.

35 1 64 64 36A 3 22 36A 33 TYP. 4 64 33 TYP. 47 2 37 65 4 60 56 42 24 47 28 23 2 4 43 4 11 41 38

SEE SHEET 7LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 7LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 7LC-100-7LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 7LC-400-7LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 7LC-500-7LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS



GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

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2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
LANDSCAPE CONSTRUCTION PLAN

Sheet No.
2LC-105

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

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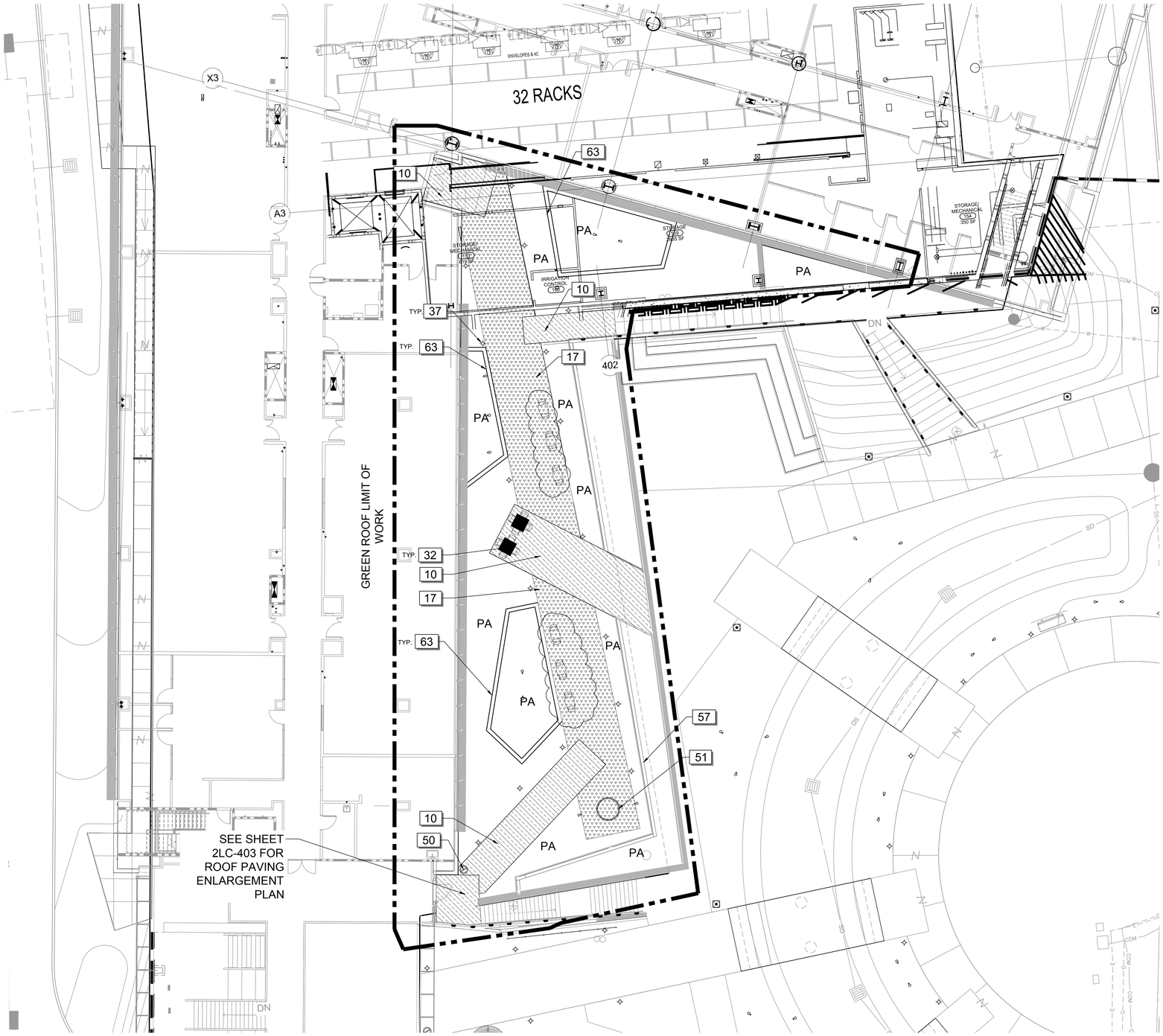

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

0 5 10 20
SCALE : 1" = 10'-0"

NORTH

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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LANDSCAPE CONSTRUCTION PLAN - GREEN ROOF

Sheet No.
2LC-106

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

2LC-100

2LC-101

2LC-102

2LC-106

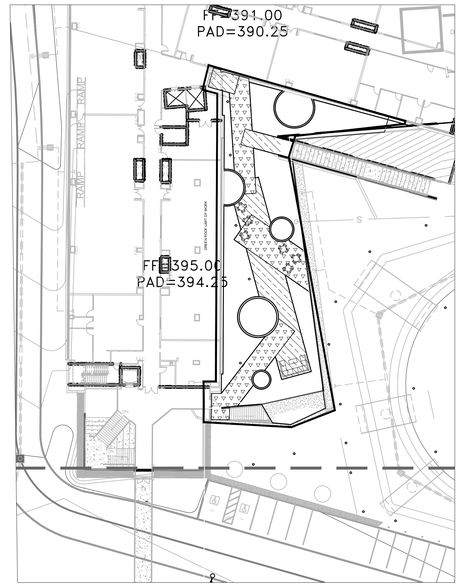
2LC-103

2LC-104

2LC-105

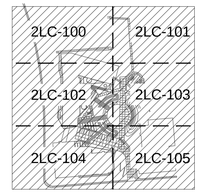
SEE INSET MAP 2LC-111

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES



GREEN ROOF INSET MAP

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS



0 15 30 60
SCALE : 1" = 30'-0"

NORTH

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT

DESIGN DEVELOPMENT
04.25.17

Sheet Title

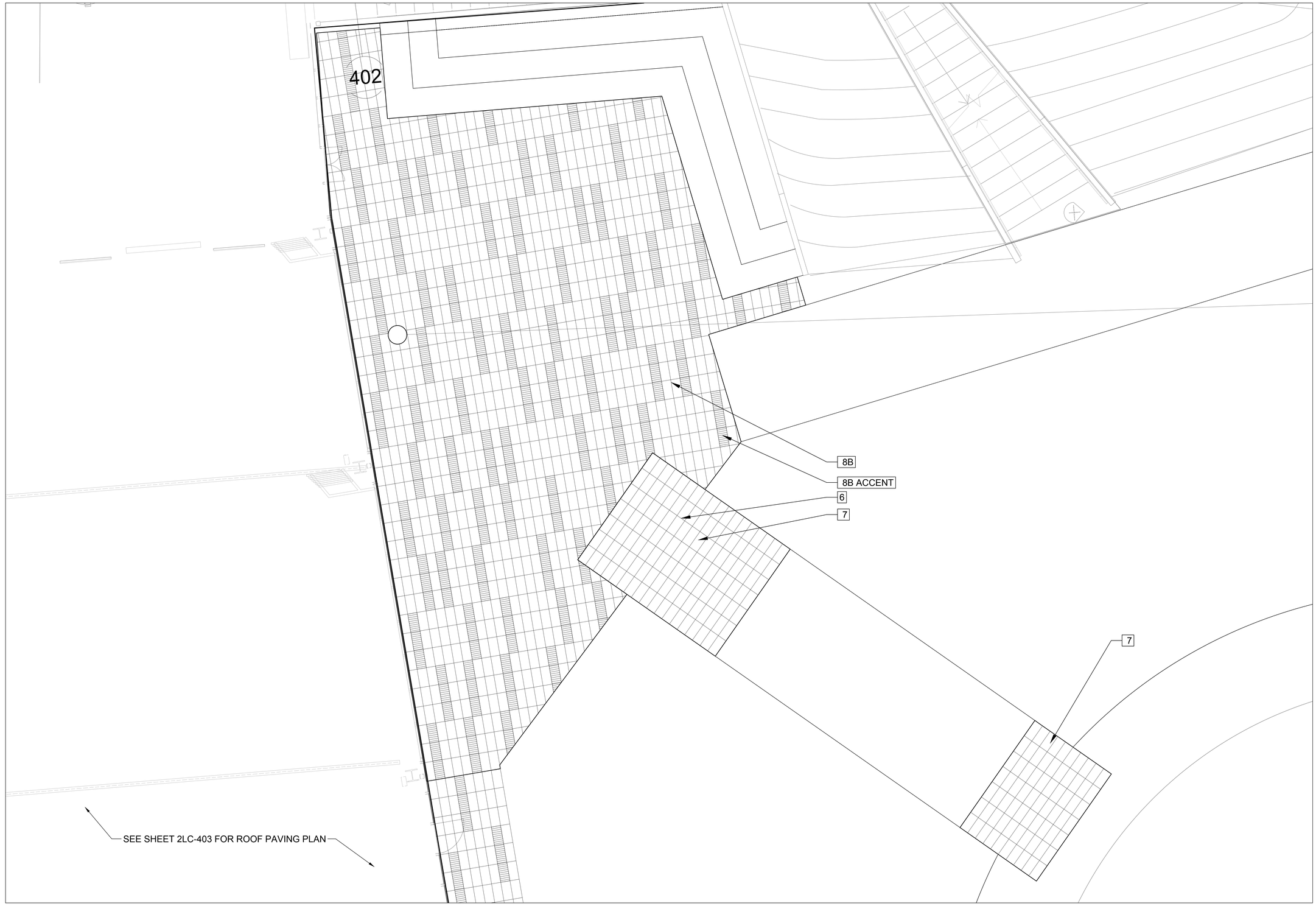
LANDSCAPE CONSTRUCTION OVERALL SITE PLAN

Sheet No.

2LC-111

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

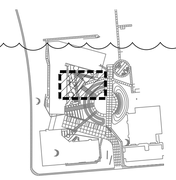


REFERENCE NOTE SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
6	VEHICULAR PAVERS OVER CONCRETE SLAB, 12" X 24" X 2" THICK PAVERS OVER 6" CONCRETE SLAB. COLOR: NASSAU. MODEL #; TRAILS. FINISH: FLEKK. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500
7	PEDESTRIAN PAVERS, 12" X 24" X 1" THICK PAVERS. COLOR: NASSAU. MODEL #; TRAILS. FINISH: FLEKK. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500
8B	VEHICULAR PAVERS OVER CONCRETE SLAB, 12" X 24" X 2" THICK PAVERS OVER 6" CONCRETE SLAB. FIELD COLOR: IVORY. FIELD MODEL #: TRAILS. FIELD FINISH: FLEKK. ACCENT COLOR: IVORY. ACCENT MODEL #: ZUMA. ACCENT FINISH: RIBBED 90. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500

2.2

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-403 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS



0 2 4 8
SCALE 1/4" = 1'

NORTH

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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LANDSCAPE PAVING ENLARGEMENT

Sheet No.
2LC-400

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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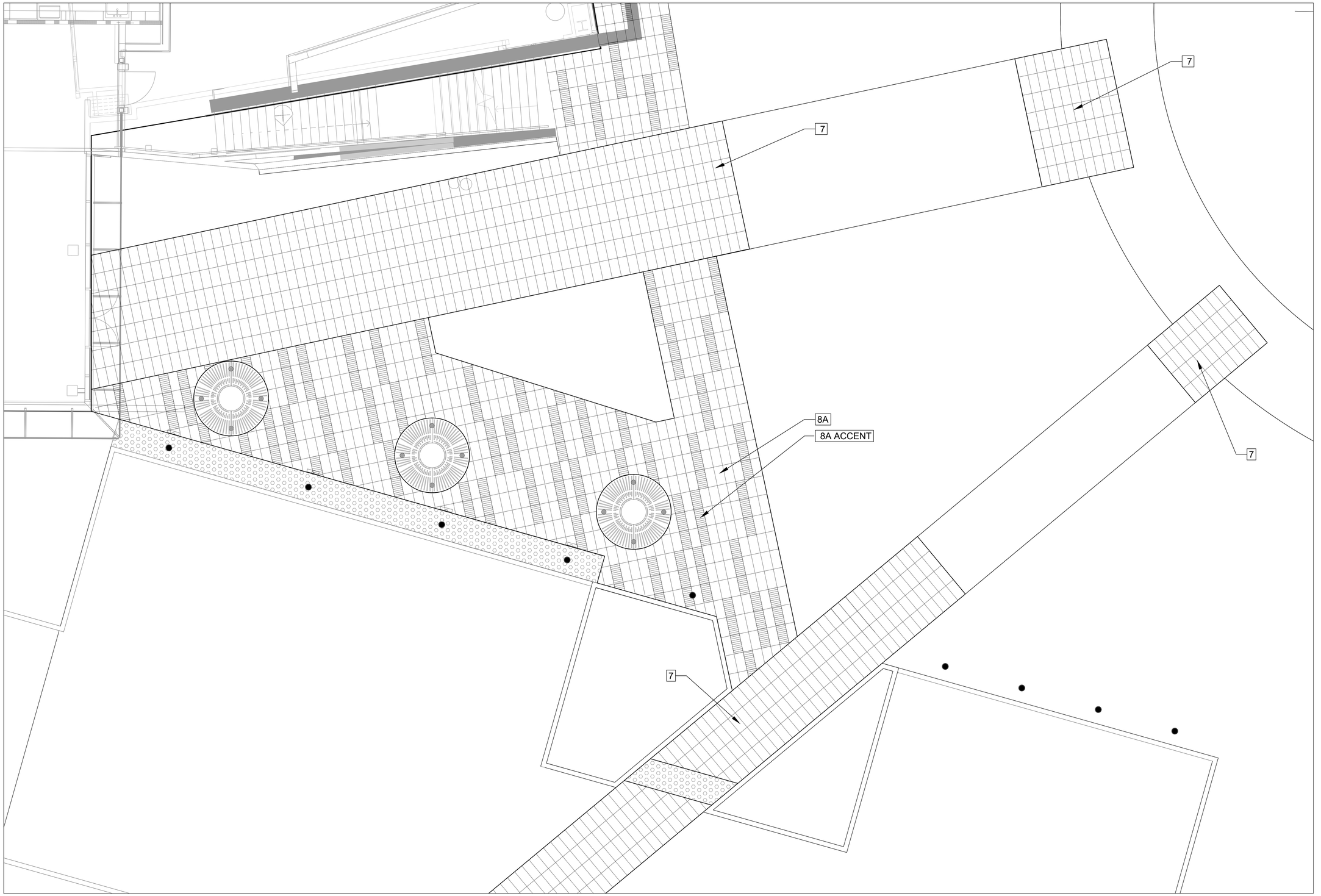

REFERENCE NOTE SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
7	PEDESTRIAN PAVERS, 12" X 24" X 1" THICK PAVERS. COLOR: NASSAU. MODEL #; TRAILS. FINISH: FLEKK. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500
8A	PEDESTRIAN PAVERS, 12" X 24"X 1" THICK PAVERS. FIELD COLOR: IVORY. FIELD MODEL #: TRAILS. FIELD FINISH: FLEKK. ACCENT COLOR: IVORY. ACCENT MODEL #: ZUMA. ACCENT FINISH: RIBBED 90. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500

2.2

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
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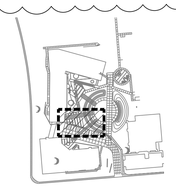

0 2 4 8
SCALE $\frac{1}{4}$" = 1'

NORTH

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VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

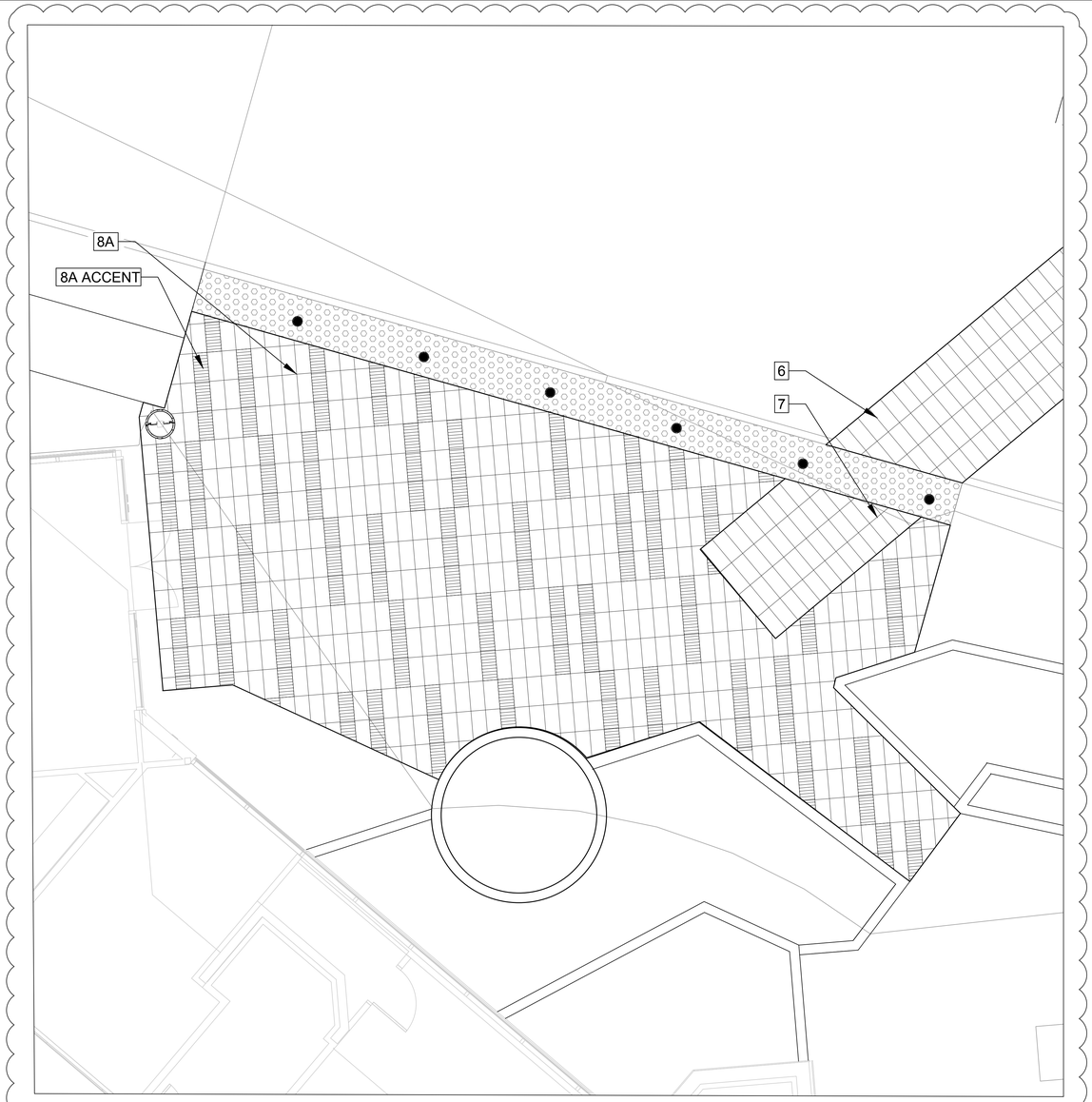
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LANDSCAPE PAVING ENLARGEMENT

Sheet No.
2LC-401

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



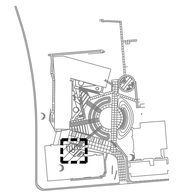
DINING TERRACE PAVING PLAN
SCALE: 1/4" = 1'-0"

2.3

REFERENCE NOTE SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
6	VEHICULAR PAVERS OVER CONCRETE SLAB, 12" X 24" X 2" THICK PAVERS OVER 6" CONCRETE SLAB. COLOR: NASSAU. MODEL #; TRAILS. FINISH: FLEKK. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500
7	PEDESTRIAN PAVERS, 12" X 24" X 1" THICK PAVERS. COLOR: NASSAU. MODEL #; TRAILS. FINISH: FLEKK. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500
8A	PEDESTRIAN PAVERS, 12" X 24"X 1" THICK PAVERS. FIELD COLOR: IVORY. FIELD MODEL #: TRAILS. FIELD FINISH: FLEKK. ACCENT COLOR: IVORY. ACCENT MODEL #: ZUMA. ACCENT FINISH: RIBBED. AVAILABLE THROUGH: CONCRETE COLLABORATIVE. PHONE: (855) 268-0800.	5/2LC-500

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-403 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS



0 2 4 8
SCALE 1/4" = 1'

NORTH

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

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	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

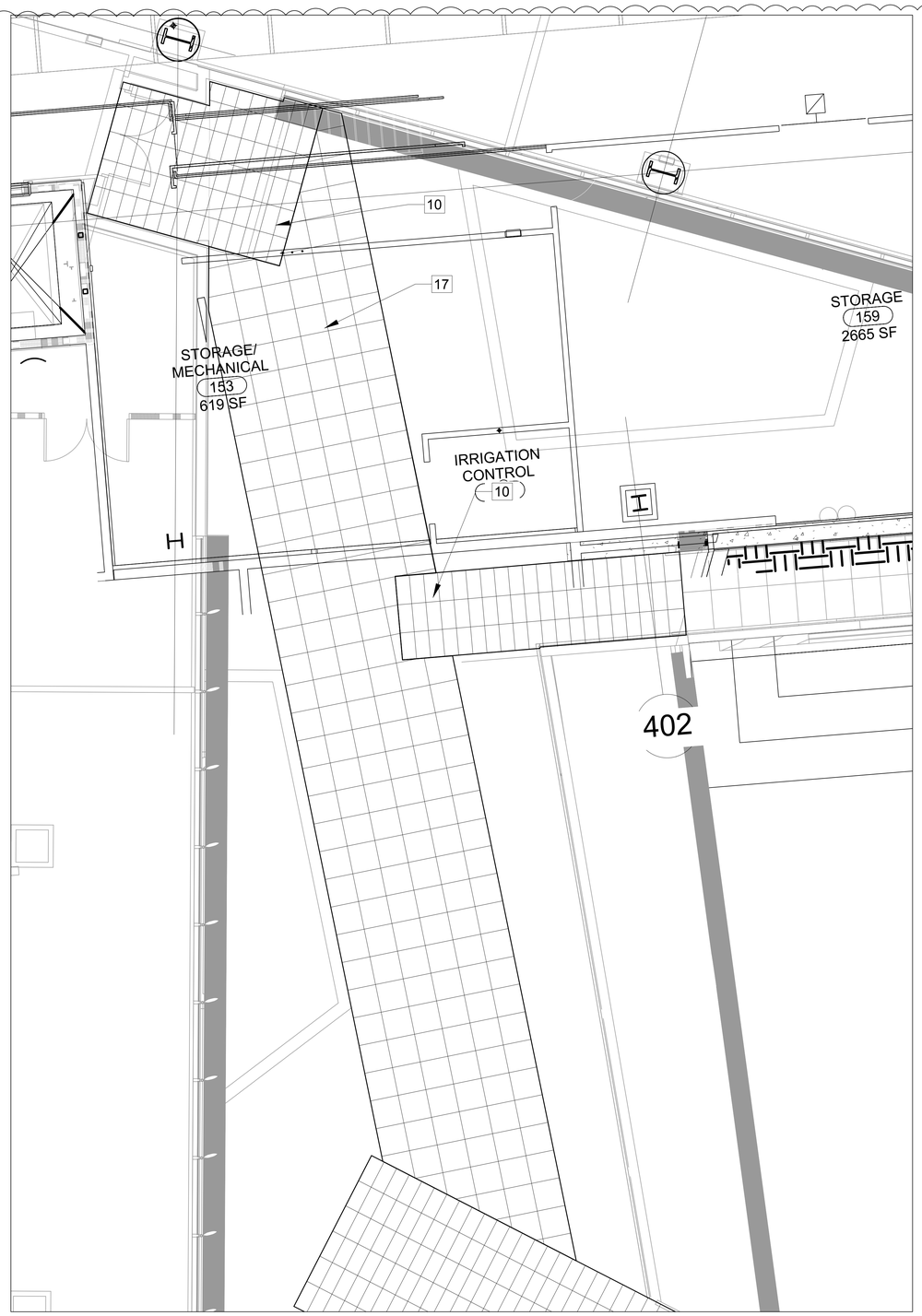
CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE PAVING ENLARGEMENT

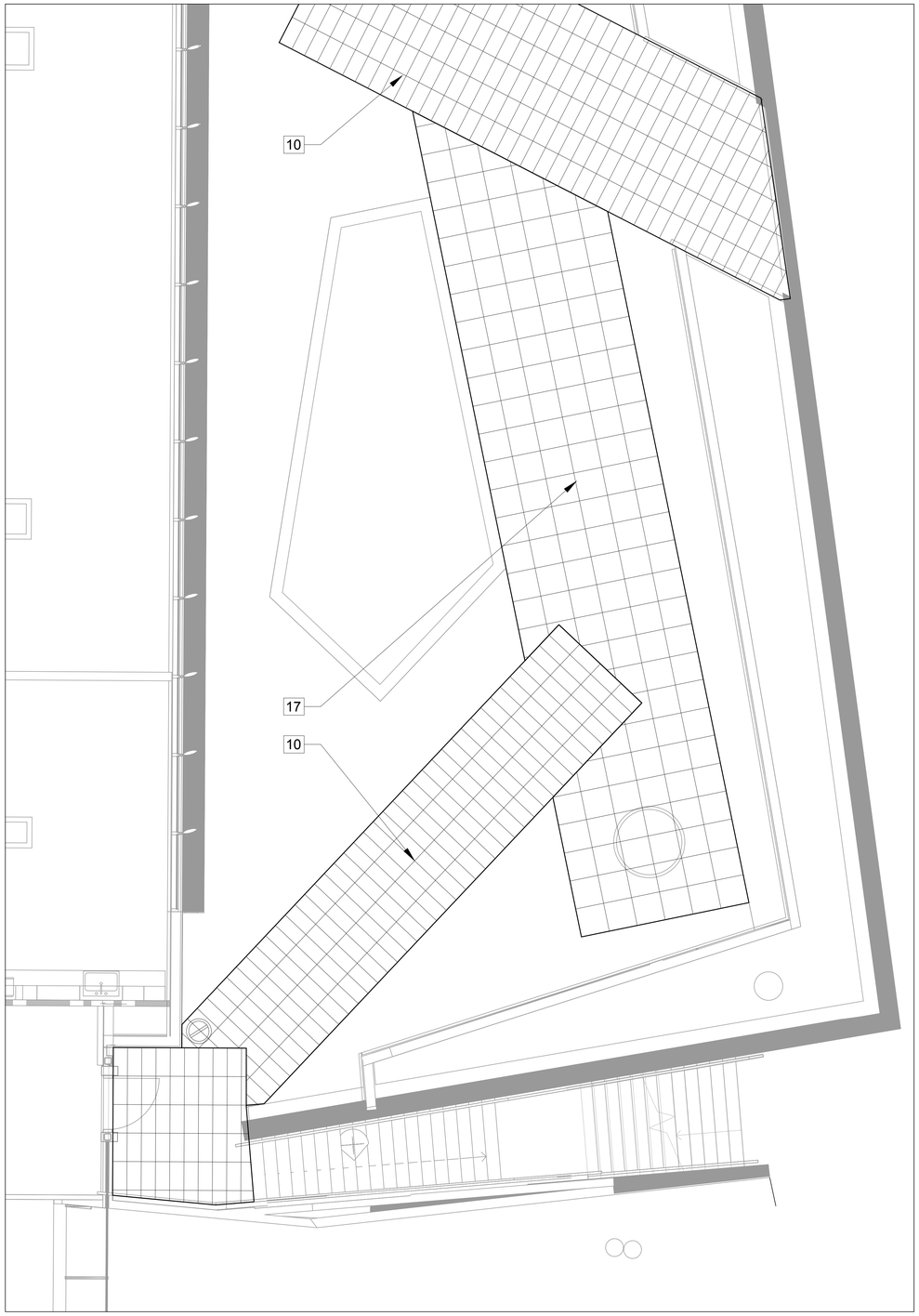
Sheet No.
2LC-402

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



GREEN ROOF PAVING PLAN - NORTH
SCALE: 1/4" = 1'-0"



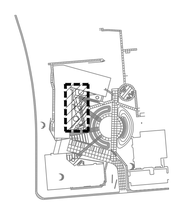
GREEN ROOF PAVING PLAN - SOUTH
SCALE: 1/4" = 1'-0"

REFERENCE NOTE SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
10	PEDESTRIAN PAVERS OVER PODIUM. 12" X 24" X 2" THICK PAVERS. COLOR: PENNY LANE. MODEL #: COOL ROOF ARCHITECTURAL PAVERS. AVAILABLE THROUGH: TILE TECH. PHONE: (213) 380-5560	1-5 / 2LC-501
17	IPE WOOD DECK PAVERS OVER PODIUM. 24" X 24" PAVERS. FINISH: SMOOTH. AVAILABLE THROUGH: TILE TECH. PHONE: (213) 380-5560	3-5 / 2LC-501

2.2

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-403 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS



0 2 4 8
SCALE 1/4" = 1'

NORTH

GENE THEORY -
CP-2
VOLUME 1

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REDWOOD CITY, CA 94063

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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

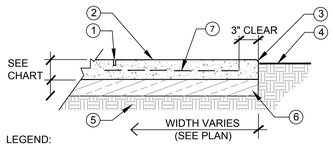
ADDENDUM 2.2
10.03.17

Sheet Title
LANDSCAPE PAVING ENLARGEMENT

Sheet No.
2LC-403

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

2.2

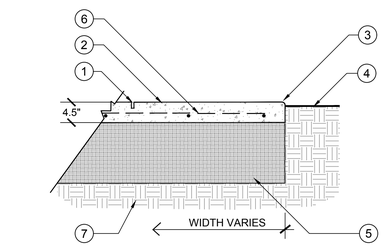


LEGEND:
1. SCORE LINES AND EXPANSION JOINTS PER PLAN.
2. CONCRETE PAVING PER CHART
3. 1/2 RAD. ON ALL OUTSIDE EDGES.
4. FINISH GRADE 2" IN SHRUB BEDS AND 1" IN TURF AREAS.
5. COMPACTED SUBGRADE PER CHART
6. BASE MATERIAL CLASS II AGGREGATE PER CHART.
7. REBAR PER CHART

NOTES:
A. AT A MINIMUM PROVIDE THE FOLLOWING: CONSTRUCTION JOINTS: 10' O.C. EXPANSION JOINTS: 30' O.C.
B. ALL REINFORCEMENT MUST BE CENTERED IN CONCRETE PROFILE.
C. CONCRETE COLOR AND FINISH PER PLAN.
D. CONTRACTOR TO FOLLOW RECOMMENDATIONS OF GEOTECH REPORT AND/OR STRUCTURAL ENGINEER.

	CONCRETE BASE	REBAR	BASE	SUBGRADE
PEDESTRIAN	4.5 IN. MIN. THICKNESS	MIN. #4 @ 18" O.C. BOTH WAYS	PER GEOTECH REPORT	COMPACT TO 95%
VEHICULAR	7 IN. MIN. THICKNESS	MIN. #4 @ 18" O.C. BOTH WAYS	6 IN. DEPTH	COMPACT TO 95%
FIRE LANE	8 IN. MIN. THICKNESS	MIN. #4 @ 18" O.C. BOTH WAYS	6 IN. DEPTH	COMPACT TO 95%

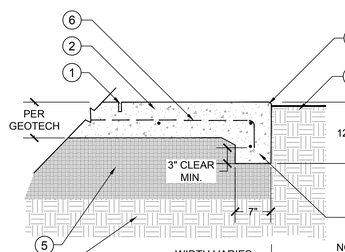
1 CONCRETE PAVING
NO SCALE



LEGEND:
1. SCORE LINES AND EXPANSION JOINTS PER PLAN.
2. 4.5" THICK, PEDESTRIAN CONCRETE PAVING. FINISH PER PLAN.
3. 1/2 RAD. ON ALL OUTSIDE EDGES.
4. FINISH GRADE 2" IN SHRUB BEDS AND 1" IN TURF AREAS.
5. COMPACTED BASE PER DETAIL 1/2CL-500
6. REBAR PER DETAIL 1/2LC-500
7. COMPACTED SUBGRADE AT 95% RELATIVE COMPACTION PER GEOTECH REPORT

NOTES:
A. AT A MINIMUM PROVIDE THE FOLLOWING: CONSTRUCTION JOINTS: 10' O.C. EXPANSION JOINTS: 30' O.C.
B. ALL REINFORCEMENT MUST BE CENTERED IN CONCRETE PROFILE.
C. CONCRETE COLOR AND FINISH PER PLAN.
D. CONTRACTOR TO FOLLOW RECOMMENDATIONS OF GEOTECH REPORT AND/OR STRUCTURAL ENGINEER.

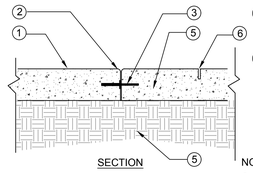
2 PEDESTRIAN CONCRETE PAVING
NTS



LEGEND:
1. SCORE LINES AND EXPANSION JOINTS PER PLAN.
2. 8" THICK, VEHICULAR CONCRETE PAVING. FINISH PER PLAN.
3. 1/2 RAD. ON ALL OUTSIDE EDGES.
4. FINISH GRADE 2" IN SHRUB BEDS AND 1" IN TURF AREAS.
5. COMPACTED BASE PER DETAIL 1/2LC-500
6. REBAR PER DETAIL 1/2LC-500
7. THICKENED EDGE WHERE CONCRETE MEETS LANDSCAPE BEDS.
8. COMPACTED SUBGRADE AT 95% RELATIVE COMPACTION PER GEOTECH REPORT

NOTES:
A. AT A MINIMUM PROVIDE THE FOLLOWING: CONSTRUCTION JOINTS: 10' O.C. EXPANSION JOINTS: 30' O.C.
B. ALL REINFORCEMENT MUST BE CENTERED IN CONCRETE PROFILE.
C. CONCRETE COLOR AND FINISH PER PLAN.
D. CONTRACTOR TO FOLLOW RECOMMENDATIONS OF GEOTECH REPORT AND/OR CIVIL ENGINEER.

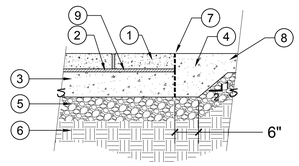
3 VEHICULAR CONCRETE PAVING
NTS



LEGEND:
1. CONCRETE PAVING
2. 3/16 RADIUS - 1/4" DEPTH TOOLED EDGE
3. 1/4" DIAMOND DOWEL PLATE
4. POLYURETHANE SEALANT 'SONNEBORN' SL-2 SLOPE GRADE - CONFORM TO ASTM C920 TYPE M - GRADE T
5. COMPACTED SUBGRADE AT 95% RELATIVE COMPACTION PER GEOTECH REPORT
6. SCORE LINE, SAW CUT AT 1/2 INCH DEPTH TYPICAL

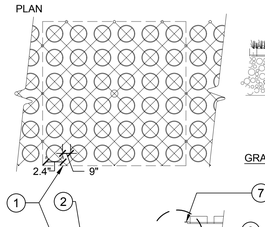
NOTES:
A. SEE LANDSCAPE CONSTRUCTION PLAN FOR EXPANSION JOINT LOCATIONS
B. AT A MINIMUM PROVIDE EXPANSION JOINTS FOR EVERY 400 SF OF CONTIGUOUS CONCRETE PAVING
C. SPACE DOWELS AT 18" O.C. PER MANUFACTURER'S RECOMMENDATIONS.

4 DIAMOND DOWEL JOINT
NO SCALE



	CONCRETE BASE	REBAR	BASE	SUBGRADE
PEDESTRIAN	PER GEOTECH REPORT	PER GEOTECH REPORT	PER GEOTECH REPORT	PER GEOTECH REPORT
VEHICULAR	PER GEOTECH REPORT	PER GEOTECH REPORT	PER GEOTECH REPORT	PER GEOTECH REPORT
FIRE LANE	PER GEOTECH REPORT	PER GEOTECH REPORT	PER GEOTECH REPORT	PER GEOTECH REPORT

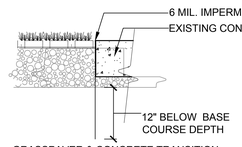
5 PAVER OVER CONCRETE BASE
NTS



LEGEND:
1. CONCRETE PAVER OR ADA DETECTABLE WARNING TILE PAVER(SEE CONSTRUCTION LEGEND FOR THICKNESS).
2. HIGH STRENGTH MORTAR (TO BE LATICRETE 254 PLATINUM). PAVERS TO BE BACK BUTTERED AND SET TO ACHIEVE 100% CONTACT BETWEEN THE PAVER AND MORTAR BED, FREE OF VOIDS. BUTT JOIN.
3. CONCRETE BASE PER CHART BELOW
4. THICKENED EDGE
5. BASE PER CHART
6. SOIL SUBGRADE PER CHART
7. EXPANSION JOINT
8. ADJACENT PAVING SEE PLANS
9. GROUT - COLOR TO MATCH PAVER. CONTRACTOR TO SUBMIT SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

PLEASE NOTE: VALUES ARE PROVIDED FOR BID PURPOSES ONLY. PAVEMENT SECTION TO BE DETERMINED IN FIELD BY GEO TECHNICAL ENGINEER.

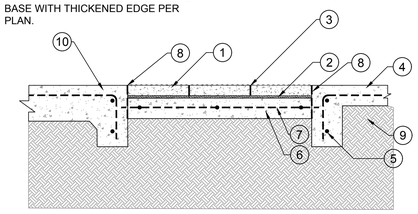
6 VEHICULAR TURFBLOCK
No Scale



LEGEND:
1. TURFBLOCK SQUARE PANEL (20" X 20" X 1")
2. HYDROGROW MIX BELOW RING
3. RINGS FILLED WITH MIX OF CONCRETE SAND AND HUMIC COMPOST
4. CLASS II ROAD BASE MINIMUM 12 INCHES (DEPTH OF BASE TO BE DETERMINED PER GEOTECH ENGINEER)
5. COMPACTED SUBGRADE PER SOIL'S REPORT
6. TOP OF GRASS ROOT 1/4" ABOVE TOP OF RING ROOT MASS TO FILL GRASSPAVER
7. ATTACH WITH SNAP-FIT FASTENERS

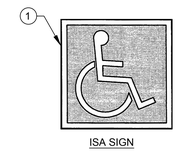
NOTE:
1. GRASS TYPES PER PLAN
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. VALUES ARE PROVIDED FOR BID PURPOSES ONLY. PAVEMENT SECTION TO BE DETERMINED IN FIELD BY GEO TECHNICAL ENGINEER.

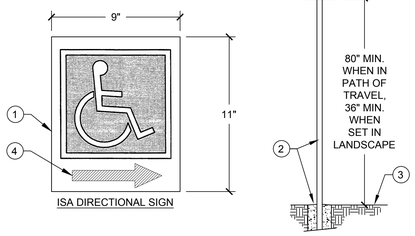
LEGEND:
1. 12" SQUARE, 2-3/4"" THICK, ADA DETECTABLE WARNING MODEL ADA-3, COLOR: DARK GRAY A-90, AVAIL. THROUGH WAUSAU TILE OR APPROVED EQUAL. PH: (800) 388-8728. SET ON CONCRETE BASE. INSTALL PER MANUF. RECOMMENDATIONS. CIRCULAR SAW CUT AROUND BOLLARD BASE.
2. HIGH STRENGTH MORTAR (TO BE LATICRETE 254 PLATINUM). PAVERS TO BE BACK BUTTERED AND SET TO ACHIEVE 100% CONTACT BETWEEN THE PAVER AND MORTAR BED, FREE OF VOIDS.
3. GROUT - COLOR TO MATCH PAVER. CONTRACTOR TO SUBMIT SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
4. 4.5" THICK PEDESTRIAN CONCRETE PAVING OR PAVER OVER CONCRETE BASE WITH THICKENED EDGE PER PLAN.
5. #4 REBAR REINFORCMENT HORIZONTAL AND CONTINUOUS. OVERLAP SPLICES 12" MIN.
6. CONCRETE BASE, SEE DETAIL 1/2LC-500 FOR VEHICULAR OR FIRE RATING.
7. #4 REBAR IN CONCRETE BASE AT 18" O.C. BOTH WAYS, CENTER IN CONCRETE PROFILE. DOWEL INTO ADJACENT PAVING.
8. EXPANSION JOINT
9. 12" COMPACTED NATIVE PER GEOTECHNICAL REPORT.
10. VEHICULAR CONCRETE WITH THICKENED EDGE PER PLAN



7 TRUNCATED DOME PAVERS
1" = 1'-0"

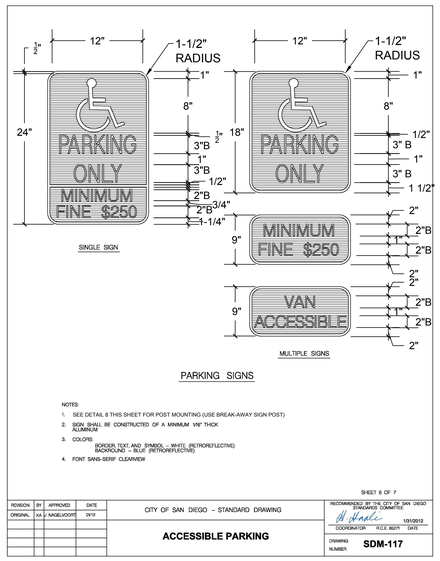
NOTE:
A. SIGN SHALL BE INSTALLED WITHIN PLANTING AREA AND SHALL NOT OBSTRUCT THE PATH OF TRAVEL
B. DIRECTIONAL SIGN SHALL INCLUDE ARROW ORIENTED TOWARDS ADA RAMP OR ACCESSIBLE PATH OF TRAVEL


ISA SIGN

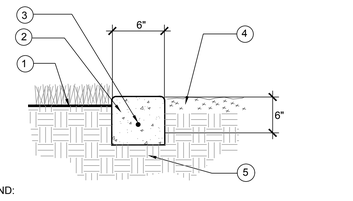


LEGEND:
1. INTERNATIONAL SYMBOL OF ACCESSIBILITY PER ADAAG SECTION 4.30.7 SIZE, COLORS AND SIGN THICKNESS PER OWNER AND REGIONAL STANDARDS.
2. CONCRETE FOOTING AND POST PER REGIONAL STANDARD DRAWINGS.
3. FINISH GRADE
4. DIRECTIONAL ARROW TOWARDS ADA RAMP OR PATH OF TRAVEL

8 (ISA) INTERNATIONAL ACCESSIBILITY SIGN
NO SCALE



9 ACCESSIBLE PARKING SIGN
NO SCALE



LEGEND:
1. FINISHED GRADE 1" BELOW TOP OF CURB IN LAWN AREAS AND 3" AT SHRUB BEDS TO RECEIVE WOOD MULCH OR DG MULCH.
2. 6" CONCRETE MOW CURB
3. #4 REBAR HORIZONTAL AND CONTINUOUS OVERLAP SPLICES 12" MINIMUM- WRAP AROUND POSTS WHERE OCCURS.
4. MATERIAL OR PAVING PER PLAN
5. COMPACTED SUBGRADE PER GEOTECHNICAL REPORT.

NOTES:
A. PROVIDE EXPANSION JOINTS AT 30'-0" MAX. O.C., TYP. PER DETAIL. PROVIDE CONTROL JOINTS @ 10'-0" O.C., TYP.

10 6" CONCRETE MOW CURB
NO SCALE

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

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2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LANDSCAPE CONSTRUCTION DETAILS

Sheet No.
2LC-500

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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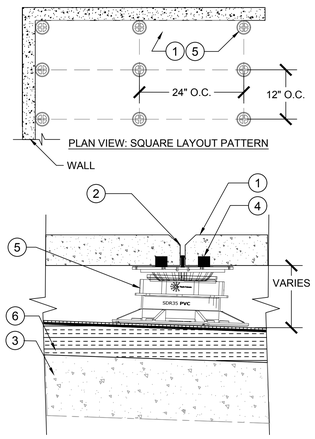
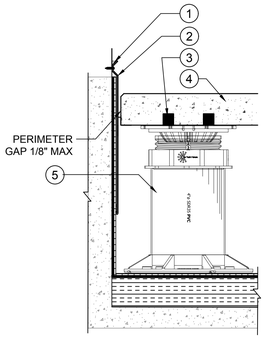


LEGEND:

1. 12" X 24" PEDESTRIAN PAVING UNIT PER CONSTRUCTION PLAN
2. EXPANSION JOINT
3. CONCRETE PODIUM DECK (SEE STRUCTURAL ENGINEER PLANS)
4. 1/8" SPACER TAB
5. TILE TECH PEDESTAL - 1/2" TO 22" HIGH & 0%-6% SLOPE. HEIGHT VARIES, SEE STRUCTURAL ENGINEERING PLANS
6. INSULATION PER ARCHITECT

NOTES:
A. ALL SURFACES SHALL SLOPE TO DRAIN AWAY FROM STRUCTURES 1% MIN. (SEE CONSTRUCTION NOTES)
B. ADJACENT CONCRETE PAVING SHALL BE FLUSH WITH ADJACENT PAVING.
C. USE OF BUFFER PADS IS MANDATORY
D. INSTALLATION MUST BE COMPLETED IN ACCORDANCE WITH TILE TECH PAVERS PRODUCT SPECS.
E. CONTRACTOR'S NOTE: FOR PRODUCT & COMPANY INFO VISIT: WWW.TILETECHPAVERS.COM
F. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING ENVELOPE DETAILS.
G. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL GREEN ROOF ASSEMBLY AND WATERPROOFING SYSTEM.

1 DECORATIVE PAVERS OVER PODIUM
NOT TO SCALE

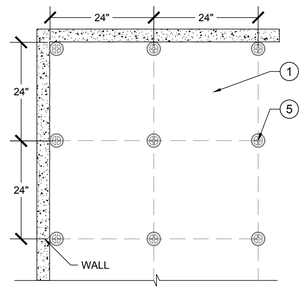


LEGEND:

1. SEALANT
2. METAL FLASHING
3. 1/8" SPACER
4. PEDESTRIAN PAVING UNIT (SEE CONSTRUCTION PLANS)
5. TILE TECH PEDESTAL - 1/2" TO 22" HIGH & 0%-6% SLOPE. HEIGHT VARIES, SEE STRUCTURAL ENGINEERING PLANS

NOTES:
A. ALL SURFACES SHALL SLOPE TO DRAIN AWAY FROM STRUCTURES 1% MIN (SEE CONSTRUCTION NOTES)
B. ADJACENT CONCRETE PAVING SHALL BE FLUSH WITH DECORATIVE PAVERS.
C. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING ENVELOPE DETAILS.
D. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL GREEN ROOF ASSEMBLY AND WATERPROOFING SYSTEM.

2 DECORATIVE PAVERS OVER PODIUM @WALL/BUILDING
NOT TO SCALE

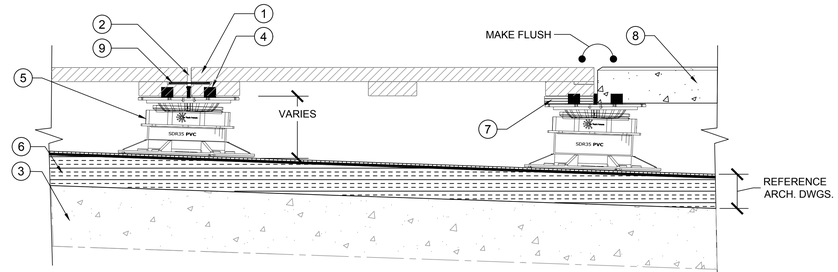


PLAN VIEW: SQUARE LAYOUT PATTERN

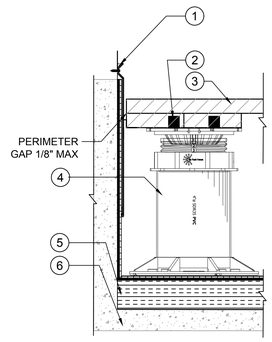
LEGEND:

1. 24" SQ. IPE PAVING TILE PER CONSTRUCTION PLAN
2. EXPANSION JOINT
3. CONCRETE PODIUM DECK (SEE STRUCTURAL ENGINEER PLANS)
4. 1/8" SPACER TAB
5. TILE TECH PEDESTAL - 1/2" TO 22" HIGH & 0%-6% SLOPE. HEIGHT VARIES, SEE STRUCTURAL ENGINEERING PLANS
6. INSULATION PER ARCHITECT
7. TILE TECH UNI-SHIM OR APPROVED EQUAL
8. ADJACENT PEDESTRIAN PAVING UNIT (SEE CONSTRUCTION PLAN)
9. LOCK WASHER TO BE SECURED BY DECK SCREW

NOTES:
A. ALL SURFACES SHALL SLOPE TO DRAIN AWAY FROM STRUCTURES 1% MIN. (SEE CONSTRUCTION NOTES)
B. ADJACENT CONCRETE PAVING SHALL BE FLUSH WITH ADJACENT PAVING.
C. USE OF BUFFER PADS IS MANDATORY
D. INSTALLATION MUST BE COMPLETED IN ACCORDANCE WITH TILE TECH PAVERS PRODUCT SPECS.
E. CONTRACTOR'S NOTE: FOR PRODUCT & COMPANY INFO VISIT: WWW.TILETECHPAVERS.COM.
F. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING ENVELOPE DETAILS.
G. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL GREEN ROOF ASSEMBLY AND WATERPROOFING SYSTEM.



3 IPE DECK TILE OVER PODIUM
NOT TO SCALE

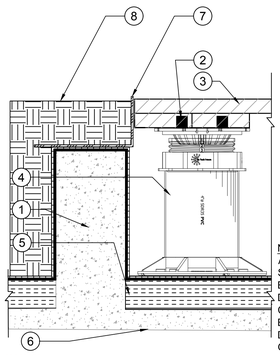


LEGEND:

1. SEALANT
2. 1/8" SPACER
3. IPE PAVING TILE (SEE CONSTRUCTION PLANS)
4. TILE TECH PEDESTAL OR APPROVED EQUAL - 1/2" TO 22" HIGH & 0%-6% SLOPE. HEIGHT VARIES, SEE STRUCTURAL ENGINEERING PLANS
5. INSULATION 60 PSI (MIN) OPTIONAL
6. CONCRETE PODIUM DECK (SEE STRUCTURAL PLANS)

NOTES:
A. ALL SURFACES SHALL SLOPE TO DRAIN AWAY FROM STRUCTURES 1% MIN (SEE CONSTRUCTION NOTES)
B. ADJACENT CONCRETE PAVING SHALL BE FLUSH WITH DECORATIVE PAVERS.
C. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING ENVELOP DETAILS.
D. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL GREEN ROOF ASSEMBLY AND WATERPROOFING SYSTEM.

4 IPE DECK PAVER OVER PODIUM @WALL/BUILDING
NOT TO SCALE



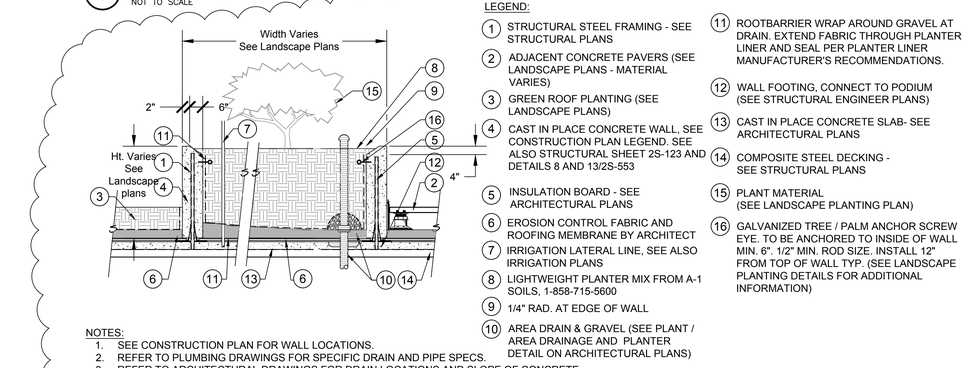
LEGEND:

1. CONCEALED CURB PER ARCHITECTURAL AND STRUCTURAL PLANS. SEE SHEET 2S-123 AND DETAILS 8 AND 13/2S-553
2. 1/8" SPACER
3. IPE PAVING TILE (SEE CONSTRUCTION PLANS)
4. TILE TECH PEDESTAL OR APPROVED EQUAL - 1/2" TO 22" HIGH & 0%-6% SLOPE. HEIGHT VARIES, SEE STRUCTURAL ENGINEERING PLANS
5. INSULATION AND WATERPROOFING PER ARCHITECTURAL PLANS
6. CONCRETE PODIUM DECK (SEE STRUCTURAL PLANS)
7. S.S. EDGING PER ARCHITECTURAL PLANS
8. LIGHTWEIGHT PLANTING MEDIA

NOTES:
A. ALL SURFACES SHALL SLOPE TO DRAIN AWAY FROM STRUCTURES 1% MIN (SEE CONSTRUCTION NOTES)
B. ADJACENT CONCRETE PAVING SHALL BE FLUSH WITH DECORATIVE PAVERS.
C. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING ENVELOP DETAILS.
D. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL GREEN ROOF ASSEMBLY AND WATERPROOFING SYSTEM.

RFI 2-00076
Greenroof Curbs

5 IPE DECK PAVER OVER PODIUM @PLANTING EDGE
NOT TO SCALE

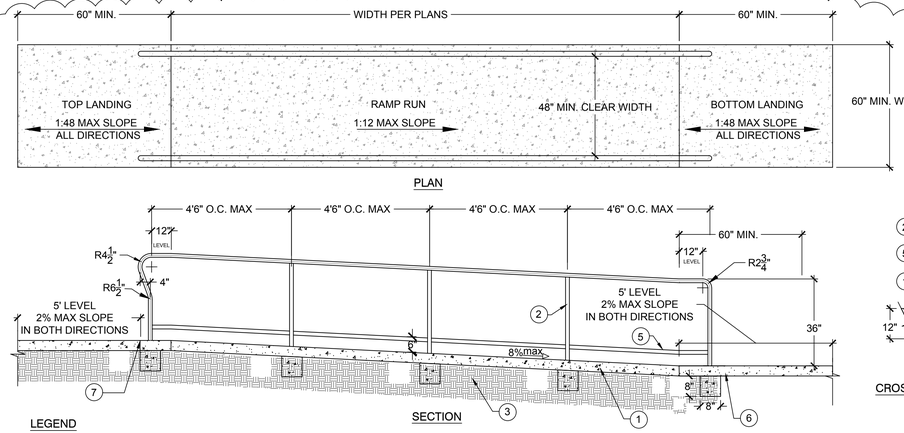


LEGEND:

1. STRUCTURAL STEEL FRAMING - SEE STRUCTURAL PLANS
2. ADJACENT CONCRETE PAVERS (SEE LANDSCAPE PLANS - MATERIAL VARIES)
3. GREEN ROOF PLANTING (SEE LANDSCAPE PLANS)
4. CAST IN PLACE CONCRETE WALL, SEE CONSTRUCTION PLAN LEGEND. SEE ALSO STRUCTURAL SHEET 2S-123 AND DETAILS 8 AND 13/2S-553
5. INSULATION BOARD - SEE ARCHITECTURAL PLANS
6. EROSION CONTROL FABRIC AND ROOFING MEMBRANE BY ARCHITECT
7. IRRIGATION LATERAL LINE, SEE ALSO IRRIGATION PLANS
8. LIGHTWEIGHT PLANTER MIX FROM A-1 SOILS, 1-858-715-5600
9. 1/4" RAD. AT EDGE OF WALL
10. AREA DRAIN & GRAVEL (SEE PLANT / AREA DRAINAGE AND PLANTER DETAIL ON ARCHITECTURAL PLANS)
11. ROOTBARRIER WRAP AROUND GRAVEL AT DRAIN. EXTEND FABRIC THROUGH PLANTER LINER AND SEAL PER PLANTER LINER MANUFACTURER'S RECOMMENDATIONS.
12. WALL FOOTING, CONNECT TO PODIUM (SEE STRUCTURAL ENGINEER PLANS)
13. CAST IN PLACE CONCRETE SLAB- SEE ARCHITECTURAL PLANS
14. COMPOSITE STEEL DECKING - SEE STRUCTURAL PLANS
15. PLANT MATERIAL (SEE LANDSCAPE PLANTING PLAN)
16. GALVANIZED TREE / PALM ANCHOR SCREW EYE. TO BE ANCHORED TO INSIDE OF WALL MIN. 6". 1/2" MIN. ROD SIZE. INSTALL 12" FROM TOP OF WALL TYP. (SEE LANDSCAPE PLANTING DETAILS FOR ADDITIONAL INFORMATION)

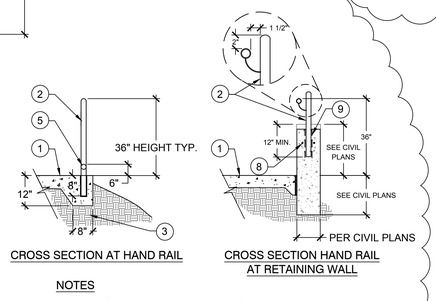
NOTES:
1. SEE CONSTRUCTION PLAN FOR WALL LOCATIONS.
2. REFER TO PLUMBING DRAWINGS FOR SPECIFIC DRAIN AND PIPE SPECS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN LOCATIONS AND SLOPE OF CONCRETE.
4. PENETRATIONS TO LINER TO ALLOW FOR IRRIGATION & DRAINAGE LINES MUST BE SEALED SO AS NOT TO ALLOW FOR ROOT OR WATER TO SEEP THROUGH. REFER TO ARCHITECTURAL PLANS FOR ALL WATERPROOFING AND PENETRATIONS.
5. CONTRACTOR TO FILL PLANTERS WITH SOIL - THOUROUGHLY WATER IN TO COMPACT SOIL. REPLENISH SETTLED SOIL AS NEEDED TO REACH SPECIFIED ELEVATION.
6. FOR STRUCTURAL COMPONENTS, SEE STRUCTURAL SHEETS: 2S-123, 8/2S-553, AND 13/2S-553

6 CONCRETE PLANTER OVER PODIUM
NOT TO SCALE



LEGEND

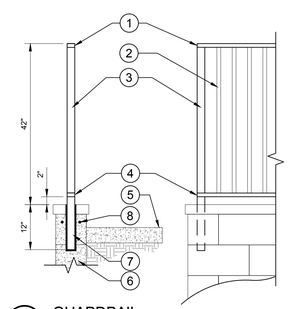
1. PAVING (SEE LANDSCAPE CONSTRUCTION PLAN).
2. 1-1/4" O.D. STAINLESS STEEL POST AND HANDRAILS. CONTRACTOR TO SUBMIT SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO APPLICATION. CORE DRILL TO ACCEPT RAIL. FILL WITH NON SHRINK GROUT. COLOR TO MATCH ADJACENT PAVING.
3. 95% COMPACT SUBGRADE.
4. FINISH GRADE.
5. 1-1/4" O.D. TUBULAR STEEL LOWER RAILING. WELD TO POST.
6. PROVIDE 5'-0" LEVEL LANDING (2% MAX. SLOPE IN BOTH DIRECTIONS) AT TOP AND BOTTOM OF RAMP.
7. CONCRETE RAMP TO BE FLUSH WITH ADJACENT PAVING.
8. #4 REBAR PER CIVIL DRAWINGS
9. 2 1/2" I.D. STAINLESS STEEL SLEEVE, TACK WELD AND FILL SEAL WITH NON-EXPANSIVE GROUT. ALLOW NO PONDING OF WATER. CAN BE CONTIGOUS POUR WITH STAIRS



NOTES

A. ALL POSTS & RAILS TO BE STAINLESS STEEL, #4 FINISH.
B. WELD AND GRIND SMOOTH ALL CONNECTIONS, EDGES, AND CORNERS TO ELIMINATE ANY SHARP EDGES.
C. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND STRUCTURAL CALCULATIONS BY OWNER'S REPRESENTATIVE APPROVAL PRIOR TO FABRICATION.
D. ALL RADII SHALL BE SMOOTH AND FREE OF CRIMPS.
E. SLOPE NOT TO EXCEED 8%. SEE CIVIL GRADING PLAN.
F. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL RAILINGS.
G. ALL WEARING SURFACES TO BE STABLE, FIRM, AND SLIP-RESISTANCT PER CBC-11B-302-1.

7 ACCESSIBLE RAMP WITH RAILING
NOT TO SCALE



LEGEND

1. 1" X 2" SOLID TUBULAR STEEL TOP RAIL
2. 1" X 1" SOLID TUBULAR STEEL PICKETS
3. 2" O.D. SOLID TUBULAR STEEL POSTS SET, 4" MAX. SPACING O.C.
4. 1" X 2" TUBULAR STEEL BOTTOM RAIL
5. ADJACENT PAVING PER PLAN
6. RETAINING WALL, SEE CIVIL DRAWINGS
7. 2 1/2" GALVANIZED STEEL SLEEVE. GROUT IN PLACE WITH POR-ROCK OR APPROVED EQUAL. POR-ROCK SHALL BE INSTALLED WITH A CROWN TO PROVIDE POSITIVE DRAINAGE AWAY FROM POSTS, TYP.
8. #4 REBAR PER CIVIL DRAWINGS

NOTES:
A. ALL METAL TO BE HOT-DIPPED GALVANIZED STEEL INSIDE AND OUT.
B. WELD AND GRIND SMOOTH ALL CONNECTIONS, EDGES, AND CORNERS TO ELIMINATE ANY SHARP EDGES.
C. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO FABRICATION.
D. ALL TUBULAR STEEL WORK SHALL BE HOT-DIPPED GALVANIZED AND PAINTED. PAINT PER 099113.
E. ALL RADII SHALL BE SMOOTH.

8 GUARDRAIL
3/4" = 1'-0"

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

2.3

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

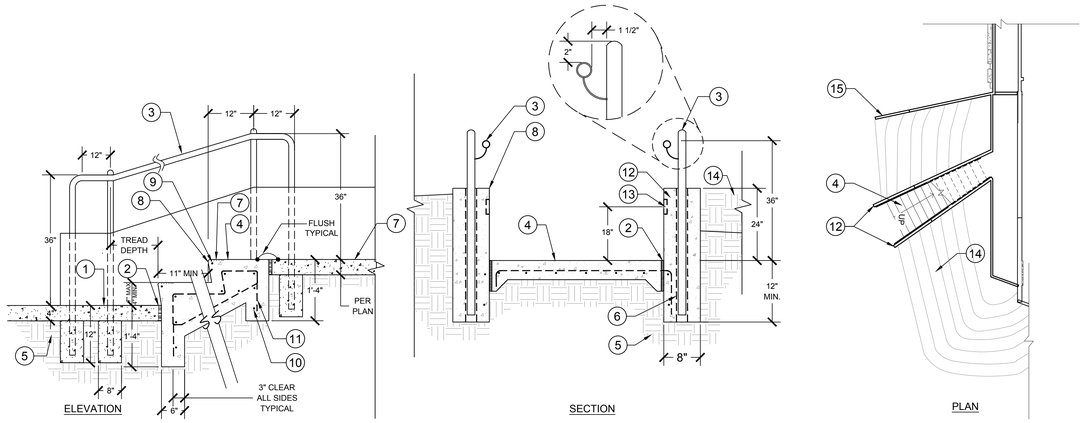
16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE CONSTRUCTION DETAILS

Sheet No.
2LC-501



1 CONCRETE STAIRS AND HANDRAIL

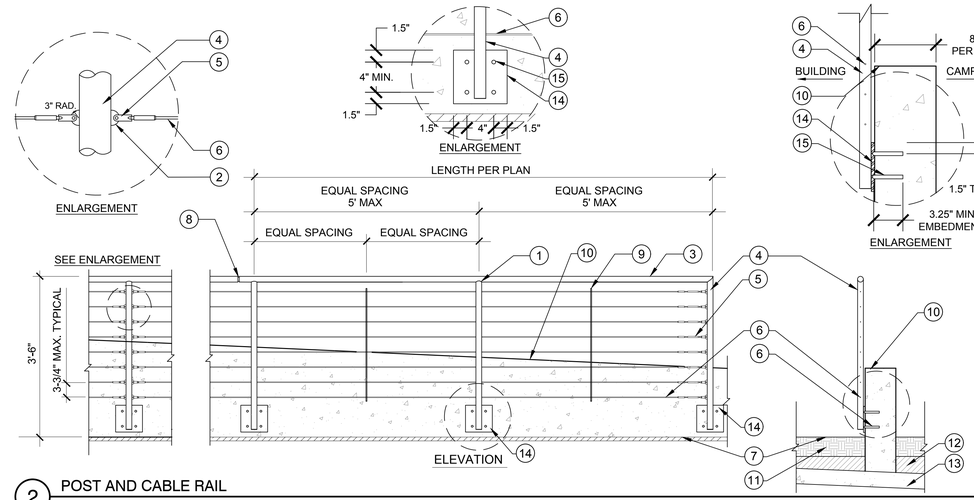
NOT TO SCALE

LEGEND:

1. ADJACENT PAVING PER PLAN.
2. EXPANSION JOINT, SEE EXPANSION JOINT DETAIL.
3. 1-1/4" O.D. STAINLESS STEEL POST AND HANDRAIL.
4. INTEGRAL COLOR CONCRETE STAIRS 520-C-2500. SLOPE TREADS 1/4" FOR POSITIVE DRAINAGE (NUMBER OF TREADS PER PLAN) FINISH: ACID ETCH #5. COLOR: `SANDSTONE' #5237 BY DAVIS COLORS
5. COMPACTED SUBGRADE PER SOILS REPORT.
6. CONCRETE FOOTING WITH 2 1/2" I.D. STAINLESS STEEL SLEEVE, TACK WELD AND FILL SEAL WITH NON-EXPANSIVE GROUT. ALLOW NO PONDING OF WATER. CAN BE CONTIGOUS POUR WITH STAIRS.
7. 3" STAIR BORDER WITH (4) 1/4" GROOVES AT 3/4" ON CENTER TYPICAL ALL STAIR TREADS AND UPPER APPROACH. STAIN BORDER WITH CONTRASTING COLOR PER CBC CHAPTER 11B (BLACK).
8. 1/4" RADIUS ON ALL EDGES TYPICAL.
9. #3 REBAR HORIZONTAL AT EACH STAIR TREAD.
10. #4 REBAR AT 12" ON CENTER TYPICAL.
11. #4 REBAR AT 24" ON CENTER TYPICAL.
12. INTEGRAL COLOR CONCRETE CHEEK WALL WITH ACID ETCH #5 FINISH. COLOR: `SANDSTONE' #5237 BY DAVIS COLORS
13. RECESSED LED STEP LIGHT, SEE ELECTRICAL PLANS
14. ADJACENT SLOPE
15. SITE WALL, SEE ARCHITECTURAL PLANS
16. 1-1/4" O.D. STAINLESS STEEL HANDRAIL, SURFACE MOUNT TO SITE WALL

NOTES

A. ALL METAL TO BE STAINLESS STEEL.
B. WELD AND GRIND SMOOTH ALL CONNECTIONS, EDGES, AND CORNERS TO ELIMINATE ANY SHARP EDGES.
C. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO FABRICATION.
D. ALL RADII SHALL BE SMOOTH.
E. ALL STAIR SETS AND RAILINGS SHALL COMPLY WITH 2013 CBC TITLE 24, SECTION 1009.7 - NOTE:
   a) STAIR RUNS (TREADS) TO BE: 11" MIN.
   b) STAIR RISE TO BE: 7" MAX. & 4" MIN.
F. ALL STAIR SETS AND RAILINGS SHALL COMPLY WITH 2013 CBC CHAPTER 11B. SECTIONS 1133B.4.5 & 1133B, AS SHOWN, ARE NOT REFLECTED IN 2013 CBC CHAPTER 11B)



2 POST AND CABLE RAIL

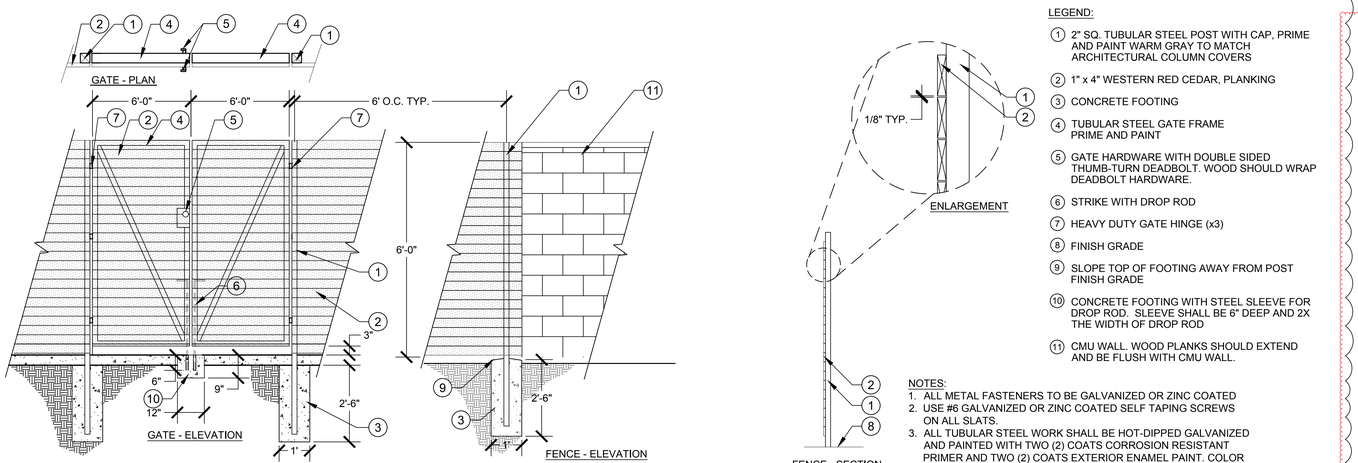
3/4" = 1'-0"

LEGEND:

1. WELD POST TO TOP RAIL W/ CONTINUOUS WELD. GRIND ALL WELDS SMOOTH TYP.
2. 1/4" STAINLESS STEEL TAB WELDED TO POST WITH 3/16 HOLE FOR TURNBUCKLE SYSTEM.
3. GUARD RAIL: 1-1/4" DIA. STAINLESS STEEL POST AND TOP RAIL.
4. 1-1/4" DIAMETER STAINLESS STEEL POST. USE AT CABLE END RUNS AND TENSIONER ASSEMBLY POINTS.
5. STAINLESS STEEL TURN BUCKLE ASSEMBLY 316 STAINLESS STEEL SWIVEL TOGGLE JAW TERMINAL MACHINE SWAGE, MACHINE SWAGE TERMINAL, CABLE TURNBUCKLE AND TOGGLE JAW. WELD IN PLACE TO PREVENT REMOVAL.
6. 3/16" DIAMETER STAINLESS STEEL CABLE.
7. FINISH SURFACE, PER PLAN.
8. 1/4" SLIDING FIT EXPANSION JOINTS SHALL BE PROVIDED AT STAINLESS STEEL RAIL @ 16' O.C. TYP. EXPANSION JOINT SHALL BE 3" LONG GALVANIZED STEEL RAIL FITTED INSIDE GALVANIZED STEEL RAIL AND WELDED ON ONE SIDE.
9. 1/4" THICK STAINLESS STEEL SPACER.
10. CAST -IN-PLACE CONCRETE GREEN ROOF WALL - HEIGHT VARIES PER ARCHITECT.
11. VEGETATED ROOF SYSTEM.
12. WATERPROOFING PER ARCHITECT.
13. CAST-IN-PLACE CONCRETE TOPPING SLAB PER STRUCTURAL ENGINEER.
14. STAINLESS STEEL PLATE - 1/2" X 7" SQUARE. WELD TO 1-1/4" DIAMETER STAINLESS STEEL POST.
15. (4) 1/2" DIAMETER SS HILTI KB-TZ ANCHORS (ICC ESR-19170, TYP. PER ATTACHMENT.

NOTES:

A. ALL HARDWARE SHALL BE STAINLESS STEEL.
B. CONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED BY A STRUCTURAL ENGINEER FOR APPROVAL BY THE LANDSCAPE ARCHITECT, PRIOR TO CONSTRUCTION.
C. GRIND ALL WELDS SMOOTH.
D. CABLE RUNS NOT TO EXCEED 40' WITHOUT TENSION FITTING ASSEMBLY / POST CONNECTION (SEE ENLARGEMENT).
E. MAXIMUM SPACING BETWEEN TURN BUCKLES NOT TO EXCEED 100'.
F. NOMINAL SIZE OF ALL POSTS AND RAILS TO BE 1-1/4". OUTSIDE DIAMETER 1.66"



3 FIRELANE WOODEN SCREENING FENCE WITH GATE

NTS

LEGEND:

1. 2" SQ. TUBULAR STEEL POST WITH CAP, PRIME AND PAINT WARM GRAY TO MATCH ARCHITECTURAL COLUMN COVERS
2. 1" x 4" WESTERN RED CEDAR, PLANKING
3. CONCRETE FOOTING
4. TUBULAR STEEL GATE FRAME PRIME AND PAINT
5. GATE HARDWARE WITH DOUBLE SIDED THUMB-TURN DEADBOLT. WOOD SHOULD WRAP DEADBOLT HARDWARE.
6. STRIKE WITH DROP ROD
7. HEAVY DUTY GATE HINGE (x3)
8. FINISH GRADE
9. SLOPE TOP OF FOOTING AWAY FROM POST FINISH GRADE
10. CONCRETE FOOTING WITH STEEL SLEEVE FOR DROP ROD. SLEEVE SHALL BE 6" DEEP AND 2X THE WIDTH OF DROP ROD
11. CMU WALL. WOOD PLANKS SHOULD EXTEND AND BE FLUSH WITH CMU WALL.

NOTES:

1. ALL METAL FASTENERS TO BE GALVANIZED OR ZINC COATED
2. USE #6 GALVANIZED OR ZINC COATED SELF TAPING SCREWS ON ALL SLATS.
3. ALL TUBULAR STEEL WORK SHALL BE HOT-DIPPED GALVANIZED AND PAINTED WITH TWO (2) COATS CORROSION RESISTANT PRIMER AND TWO (2) COATS EXTERIOR ENAMEL PAINT. COLOR WARM GREY TO MATCH ARCHITECTURAL BUILDING TRIM.
4. CONTRACTOR TO SUBMIT SHOP DWG'S PRIOR TO FABRICATION.

RFI 2-00064 Fire Lane Gate Steel Clarifications- SDG Response 2017-12-19

2.6

RFI 2-00064 Fire Lane Gate Steel Clarifications- SDG Response 2017-12-19

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	12.13.17	PLAN CHECK SUBMITTAL
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title

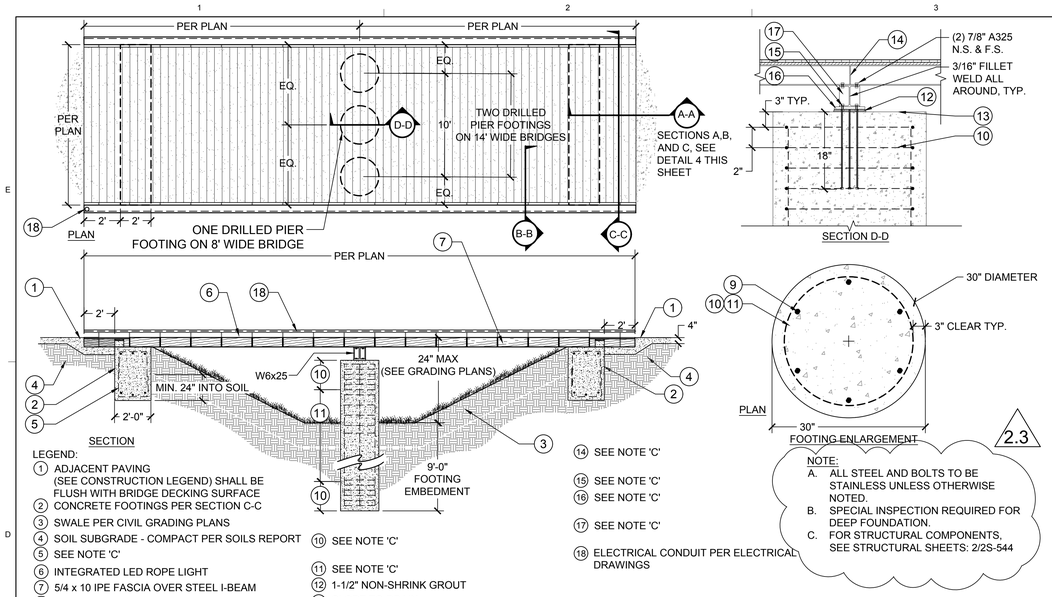
LANDSCAPE CONSTRUCTION DETAILS

Sheet No.

2LC-502

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



LEGEND:

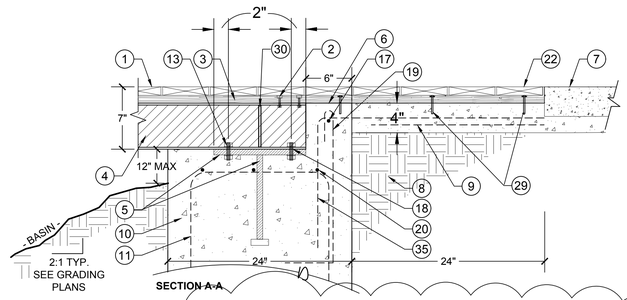
1. ADJACENT PAVING (SEE CONSTRUCTION LEGEND) SHALL BE FLUSH WITH BRIDGE DECKING SURFACE
2. CONCRETE FOOTINGS PER SECTION C-C
3. SWALE PER CIVIL GRADING PLANS
4. SOIL SUBGRADE - COMPACT PER SOILS REPORT
5. SEE NOTE 'C'
6. INTEGRATED LED ROPE LIGHT
7. 5/4 x 10 IPE FASCIA OVER STEEL I-BEAM
8. SEE NOTE 'C'
9. SEE NOTE 'C'
10. SEE NOTE 'C'
11. SEE NOTE 'C'
12. 1-1/2" NON-SHRINK GROUT
13. SLOPE TO DRAIN
14. SEE NOTE 'C'
15. SEE NOTE 'C'
16. SEE NOTE 'C'
17. SEE NOTE 'C'
18. ELECTRICAL CONDUIT PER ELECTRICAL DRAWINGS

2.3

NOTE:
A. ALL STEEL AND BOLTS TO BE STAINLESS UNLESS OTHERWISE NOTED.
B. SPECIAL INSPECTION REQUIRED FOR DEEP FOUNDATION.
C. FOR STRUCTURAL COMPONENTS, SEE STRUCTURAL SHEETS: 2/2S-544

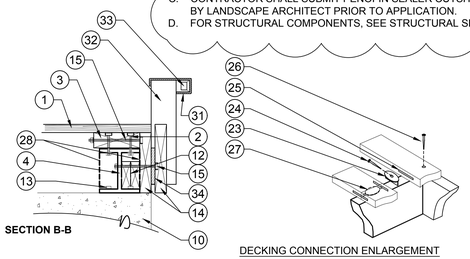
1 WOODEN IPE BRIDGE

NTS



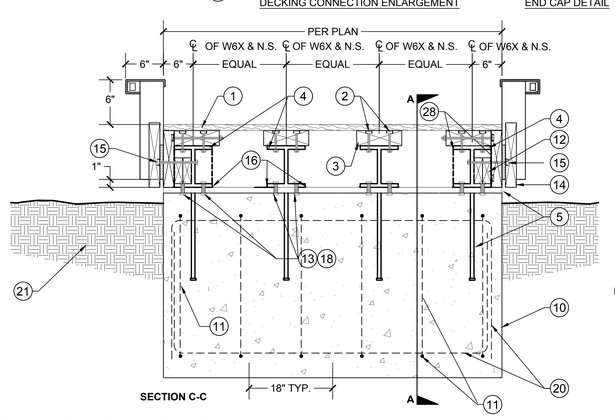
NOTE:
A. ALL STEEL AND BOLTS TO BE STAINLESS STEEL, UNLESS OTHERWISE NOTED.
B. ALL STAINLESS STEEL SHALL BE 300 SERIES OR GREATER.
C. CONTRACTOR SHALL SUBMIT PENOFIN SEALER CUTSHEET AND SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO APPLICATION.
D. FOR STRUCTURAL COMPONENTS, SEE STRUCTURAL SHEET: 2/2S-544

2.3



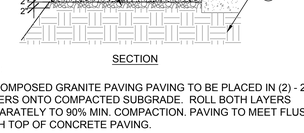


1. 5/4" X 6" IPE DECKING. FASTEN WITH HIDDEN FASTENING SYSTEM (SEE ENLARGEMENT) FINISH W/ 2 COATS OF PENOFIN (SEE NOTES). CONTINUOUS BOARDS, NO SEAMS.
2. 3/8" xM.B. & FASTENING NUT @ 18" O.C. COUNTER SINK AND PLUG
3. 3x6 PRESSURE TREATED DOUGLAS FIR NAILER (TO RUN LENGTH OF DECK PLANKING)
4. GALVANIZED W6 x 20 STEEL I-BEAM
5. 3/4" X 12" PLATE WITH 3/4" x 12" NELSON STUDS @ 6" O.C. (EMBED PLATE FLUSH INTO CONCRETE FOOTING)
6. 6" CONCRETE CURB @ PERIMETER FOOTING
7. ADJACENT PAVING (SEE PLANS) - FLUSH WITH BRIDGE DECKING
8. COMPACT SOIL SUBGRADE PER SOILS REPORT, TYP
9. SLAB REINFORCEMENT PER CIVIL
10. CONCRETE FOOTING (WIDTH TO MATCH DECKING WIDTH)
11. SEE NOTE 'D'
12. PRESSURE TREATED BLOCKING
13. SECURE I-BEAM TO STEEL PLATE WITH WASHER AND NUT AT (4) PER I-BEAM @ EACH END
14. IPE FASCIA. SIZE TO COVER BEAM & DECK EDGE.
15. 1/2" DIA. STAINLESS STEEL CARRIAGE BOLT
16. WELD 3/16" FILLET, TYP.
17. SEE NOTE 'D'
18. SEE NOTE 'D'
19. SEE NOTE 'D'
20. SEE NOTE 'D'
21. 24" MIN. EMBED INTO COMPETENT MATERIAL PER GEOTECH
22. EXTEND DECKING - 2'-0" PER PLAN
23. EB-TY BISCUIT FASTENER
24. #7-2 1/4" TRIM HEAD STAINLESS STEEL SCREW ANGLED AT 45 DEGREES
25. ROUTE SLOT AT EDGE OF DECKING AT EACH JOIST LOCATION TO RECEIVE EB-TY BISCUIT FASTENER AT END CONNECTIONS ROUTE
26. FASTEN ONE SIDE OF THE FIRST DECK BOARD COUNTERSINK AND PLUG.
27. SECOND DECK BOARD IS FASTENED ONLY WITH EB-TY AND CONSTRUCTION ADHESIVE APPLIED TO TOP OF DECK JOIST.
28. 1/4" THICK WEB STIFFENERS (LOCATE STIFFENERS WITHIN 2" O.C. OF VERTICAL RAILING POSTS - SEE DETAIL 1, THIS SHEET)
29. 2x4 PT DF NAILER. SET IN CONCRETE AND SECURE WITH 3/8x4" HILTI CARBON STEEL EXPANSION ANCHORS OR EQUAL AT 12" O.C. - COUNTERSINK SO TOP OF HEAD IS FLUSH WITH NAILER - INSTALL PER MANUFACTURERS RECOMMENDATIONS
30. 1/4" THICK STIFF N.S. AND F.S.
31. 1/4" SS PLATE CURB
32. 1/4" #316 SS "L" BRACKET WELDED TO CAP SS CURB
33. BRIDGE TAPE LIGHT FIXTURE
34. 1/4" STEEL PLATE
35. SEE NOTE 'D'



4 WOOD BRIDGE AND FOOTING

NTS



LEGEND:

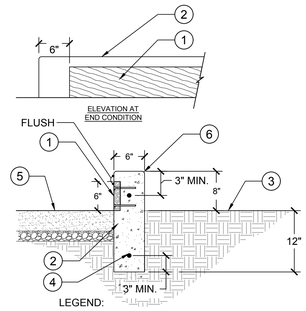
1. DECOMPOSED GRANITE PAVING PAVING TO BE PLACED IN (2) - 2" LAYERS ONTO COMPACTED SUBGRADE. ROLL BOTH LAYERS SEPARATELY TO 90% MIN. COMPACTION. PAVING TO MEET FLUSH WITH TOP OF CONCRETE PAVING.
2. CONCRETE PAVING, CONCRETE CURB OR ADJACENT AGGREGATE
3. COMPACTED SUBGRADE PER GEOTECH REPORT
4. CLASS II AGGREGATE BASE

NOTES:

A. SEE CONSTRUCTION PLAN FOR DECOMPOSED GRANITE PAVING. TYPE AND MANUFACTURER.
B. CONTRACTOR SHALL SUBMIT SAMPLE OF DECOMPOSED GRANITE PAVING TO LANDSCAPE ARCHITECT PRIOR TO INSTALLATION FOR APPROVAL OF COLOR.

2 UNSTABILIZED DECOMPOSED GRANITE PAVING

NO SCALE

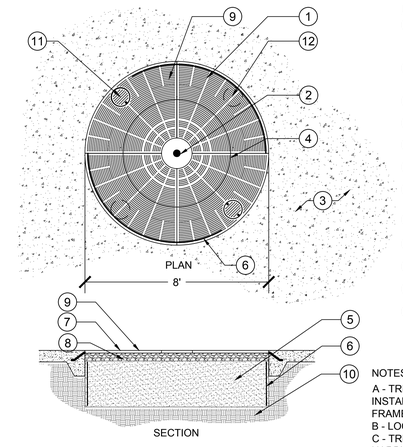


LEGEND:

1. 5/4" X 6" IPE PANEL W/ MACHINE BOLTS AT 4' O.C.
2. 12" CAST IN PLACE CONCRETE CURB
3. ADJACENT PLANTING AREA PER PLANTING PLAN
4. #3 REBAR CONTINUOUS
5. DECOMPOSED GRANITE BOCCE BALL SURFACE UNSTABILIZED D.G. DETAIL 2/2LC-503
6. 1/4" RADIUS

3 BOCCE COURT CURB - SECTION

NTS



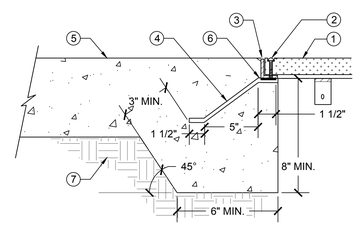
LEGEND

1. ANTI-PILIFER BOLT-DOWN IRRIGATION AND DRAINAGE ACCESS PANEL. SEE ALSO IRRIGATION AND PLANTING DETAILS.
2. TREE TRUNK, CENTERED IN TREE GRATE OPENING
3. ADJACENT PAVING PER PLANS
4. ROOT BALL SIZE PER PLANTING LEGEND
5. PLANTING BACKFILL
6. ROOT BARRIER, TYP.
7. TREE GRATE ATTACHMENT, SEE DETAIL 6/2LC-503
8. PEA GRAVEL TO BOTTOM OF GRATE
9. TREE GRATE PER LEGEND
10. COMPACT SUBGRADE PER SOILS REPORT
11. LIGHT ACCESS PANEL
12. BUBBLER PER IRRIGATION PLANS

NOTES:
A - TREE GRATE SHALL BE LOCATED AS SHOWN ON PLAN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS WITH FRAME EMBEDDED IN CONCRETE EDGE.
B - LOCATE TREES IN CENTER OF GRATE, TYP.
C - TREE GRATE SHALL HAVE GALVANIZED, ANTI-PILFER HARDWARE.

5 TREE GRATE INSTALLATION

NO SCALE



LEGEND

1. TREE GRATE, SEE DETAIL 5/2LC-503.
2. ANTI-THEFT BOLT.
3. STEEL ANGLE FRAME.
4. 4" REBAR ANCHOR.
5. ADJACENT CONCRETE PAVING SEE PLANS.
6. BLOCK OUT UNDER FRAME WITH 1/4" MIN. MATERIALS SUCH AS WOOD OR FOAM BEFORE CONCRETE IS POURED. PER MANUFACTURER'S RECOMMENDATIONS.
7. COMPACTED SUBGRADE PER SOILS REPORT

NOTE: MAINTAIN MINIMUM 3" COVER OF CONCRETE OVER TREE GRATE ATTACHMENT.

6 TYPICAL TREE GRATE ATTACHMENT

NO SCALE

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE CONSTRUCTION DETAILS

Sheet No.
2LC-503

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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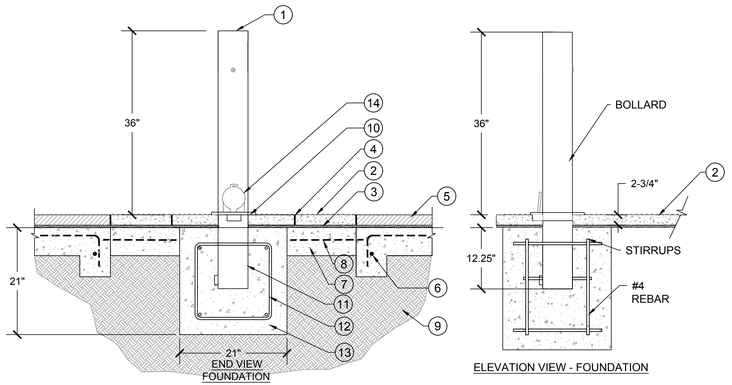


ELEVATION VIEW - FOUNDATION

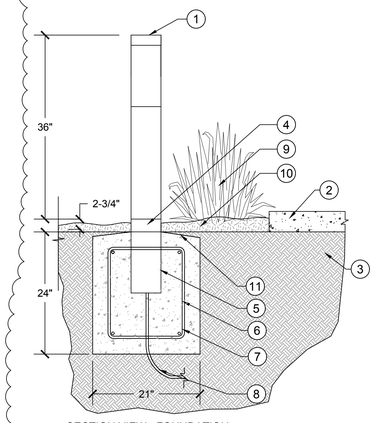
LEGEND:

1. STAINLESS STEL INTERNAL LOCKING REMOVABLE BOLLARD BY CALPIPE INDUSTRIES. PHONE: (562) 803-4388.
2. 12" SQUARE, 2-3/4" THICK, ADA DETECTABLE WARNING MODEL ADA-3, COLOR: DARK GRAY A-90, AVAIL. THROUGH WAUSAU TILE (800) 388-8728. SET ON CONCRETE BASE. INSTALL PER MANUF. RECOMMENDATIONS. CIRCULAR SAW CUT AROUND BOLLARD BASE.
3. HIGH STRENGTH MORTAR (TO BE LATICRETE 254 PLATINUM OR APPROVED EQUAL). PAVERS TO BE BACK BUTTERED AND SET TO ACHIEVE 100% CONTACT BETWEEN THE PAVER AND MORTAR BED, FREE OF VOIDS.
4. GROUT - COLOR TO MATCH PAVER. CONTRACTOR TO SUBMIT SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
5. VEHICULAR RATED PAVER WITH THICKENED EDGE PER PLAN.
6. #4 REBAR REINFORCEMENT 18" BOTH WAYS PER GEOTECHNICAL REPORT. TURN DOWN REBAR AT THICKENED EDGE.
7. CONCRETE BASE, 6" THICK.
8. #4 REBAR IN CONCRETE BASE AT 18" O.C. BOTH WAYS, CENTER IN CONCRETE PROFILE. DOWEL INTO ADJACENT PAVING.
9. 12" COMPACTED NATIVE PER GEOTECHNICAL REPORT.
10. 1/2" THICK STAINLESS STEEL BASE PLATE WITH COVER.
11. 12" PIPE EMBEDMENT
12. #4 REBAR STIRRUPS
13. CONCRETE FOOTING PER MANUFACTURER'S RECOMMENDATIONS.
14. EMBEDMENT SLEEVE AND HINGING LID

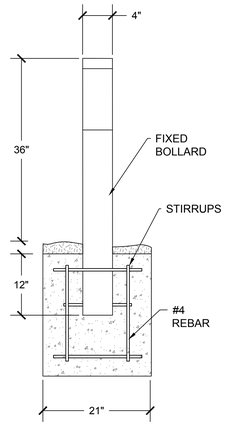
NOTES:
INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

1 REMOVABLE INTERNAL LOCKING BOLLARD

1" = 1'-0"



SECTION VIEW - FOUNDATION



ELEVATION VIEW - FOUNDATION

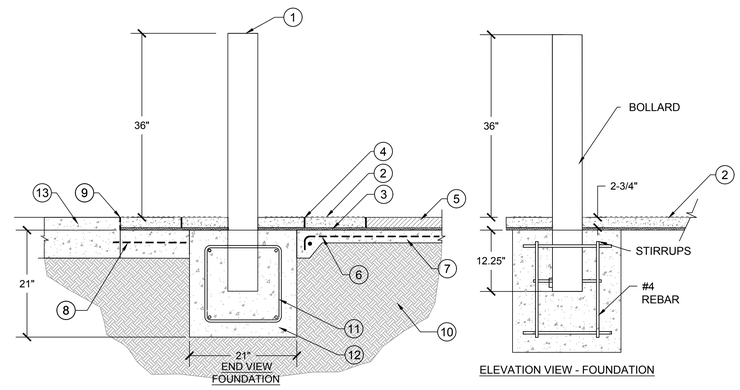
LEGEND:

1. ILLUMINATED BOLLARD. MODEL PER ELECTRICAL AND LIGHTING PLANS.
2. ADJACENT PAVING PER PLAN
3. COMPACTED BASE PER GEOTECHNICAL REPORT.
4. 1/2" THICK STAINLESS STEEL BASE PLATE WITH COVER.
5. 12" PIPE EMBEDMENT
6. #4 REBAR STIRRUPS PER MANUFACTURER'S RECOMMENDATIONS.
7. CONCRETE FOOTING PER MANUFACTURER'S RECOMMENDATIONS.
8. ELECTRICAL CONDUIT AND CONNECTION PER ELECTRICAL PLANS.
9. PLANTING AREA, SEE PLANTING PLAN FOR ADDITIONAL INFORMATION.
10. MULCH, SEE PLANTING NOTES
11. SLOPE TO DRAIN

NOTES:
INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

2 ILLUMINATED BOLLARD IN PLANTING

1" = 1'-0"



ELEVATION VIEW - FOUNDATION

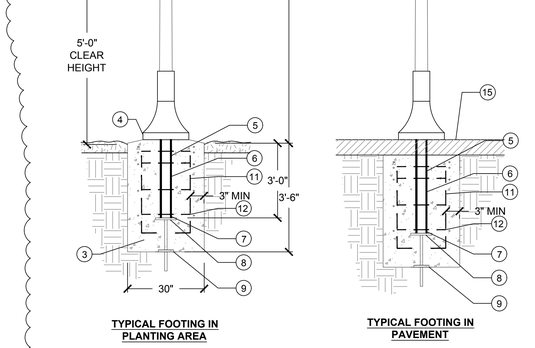
LEGEND:

1. STAINLESS STEEL SECURITY BOLLARD BY CALPIPE INDUSTRIES. PHONE: (562) 803-4388.
2. 11-13/16" BY 2¾" THICK, ADA DETECTABLE WARNING MODEL ADA-2, COLOR: DARK GRAY A-90, AVAIL. THROUGH WAUSAU TILE (800) 388-8728. SET ON CONCRETE BASE. INSTALL PER MANUF. RECOMMENDATIONS. CIRCULAR SAW CUT AROUND BOLLARD BASE.
3. HIGH STRENGTH MORTAR (TO BE LATICRETE 254 PLATINUM OR APPROVED EQUAL). PAVERS TO BE BACK BUTTERED AND SET TO ACHIEVE 100% CONTACT BETWEEN THE PAVER AND MORTAR BED, FREE OF VOIDS.
4. GROUT - COLOR TO MATCH PAVER. CONTRACTOR TO SUBMIT SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
5. ADJACENT PEDESTRIAN PAVERS PER PLAN
6. #4 REBAR REINFORCEMENT HORIZONTAL AND CONTINUOUS. OVERLAP SPLICES 12" MIN.
7. CONCRETE BASE, 2.5" THICK. WITH THICKENED EDGE.
8. #4 REBAR IN CONCRETE BASE AT 18" O.C. BOTH WAYS, CENTER IN CONCRETE PROFILE. DOWEL INTO ADJACENT PAVING.
9. EXPANSION JOINT
10. COMPACTED NATIVE PER GEOTECHNICAL REPORT.
11. #4 REBAR STIRRUPS PER MANUFACTURER'S RECOMMENDATIONS.
12. CONCRETE FOOTING PER MANUFACTURER'S RECOMMENDATIONS.
13. 8" THICK VEHICULAR CONCRETE PAVING PER PLAN.

NOTES:
INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

3 FIXED BOLLARD

1" = 1'-0"



TYPICAL FOOTING IN PLANTING AREA

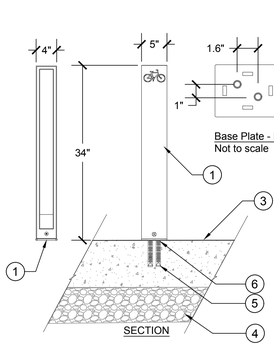
TYPICAL FOOTING IN PAVEMENT

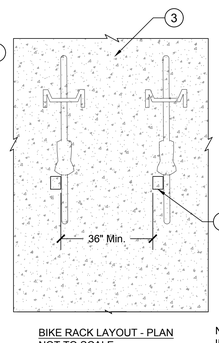
LEGEND

1. LED POLE-MOUNTED LIGHT PER ELECTRICAL PLANS. INSTALL PER MANUFACTURER'S RECOMMENDATION
2. POLE PER ELECTRICAL PLANS
3. CONCRETE FOOTING PER MANUFACTURER'S RECOMMENDATION.
4. SURFACE MOUNT PER MANUFACTURER'S RECOMMENDATIONS
5. DRY SAND TIGHTLY TAMPED AFTER ALIGNING POLE.
6. 16 GAUGE HOT DIPPED GALV. STEEL FOUNDATION SLEEVE.
7. STEEL CENTERING WEDGES.
8. 1/4" STEEL BASE PLATE.
9. 6"X6"X3/16" STEEL SUPPORT PLATE WELDED TO 3/4" GROUND SPIKE.
10. 6", 14 GAUGE SPUN ALUMINUM BALL GOLD ANODIZED
11. #6 REBAR VERTICAL ORIENTATION WITH MIN 3" CLEAR FROM OUTSIDE EDGE OF FOOTING.
12. #3 REBAR HORIZONTAL ORIENTATION AT 18" O.C.
13. 9" CAST ALUMINUM CLEAT WITH LOCKING CLEAT COVER
14. SINGLE SHEAVE TRUCK, CAST ALUMINUM REVOLVING, NON-FOULING TYPE WITH STAINLESS STEEL BALL BEARINGS
15. ADJACENT PAVER OR CONCRETE

4 POLE LIGHT FOOTING

NTS





BIKE RACK LAYOUT - PLAN
NOT TO SCALE

1. CAPITAL BIKE RACK BY FORMS AND SURFACES. POWDER COAT GRAY.
2. BASE PLATE
3. CONCRETE PER PLAN
4. SUB-GRADE PER PLAN
5. 5" DEEP BY 7/8" DIAMETER ANCHOR HOLE WITH 1/2" -13X5" EPOXY ANCHOR.
6. INSTALL HARDWARE PER MANUFACTURER'S RECOMMENDATIONS. PAINT ALL HARDWARE W/ MANUFACTURER PROVIDED TOUCH UP PAINT.

NOTE:
INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FORMS AND SURFACES - PHONE: 800-451-0410.

5 BIKE RACK

1" = 1'-0"

2.2

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
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GENE THEORY -
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1450 VETERANS BLVD
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REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
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ADDENDUM 2.2
10.03.17

Sheet Title
LANDSCAPE CONSTRUCTION DETAILS

Sheet No.
2LC-504

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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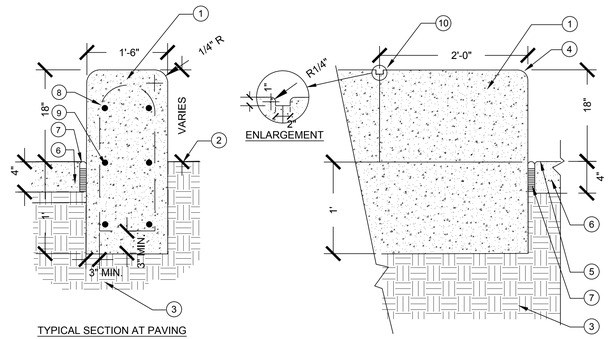


TYPICAL SECTION AT PAVING

ENLARGEMENT

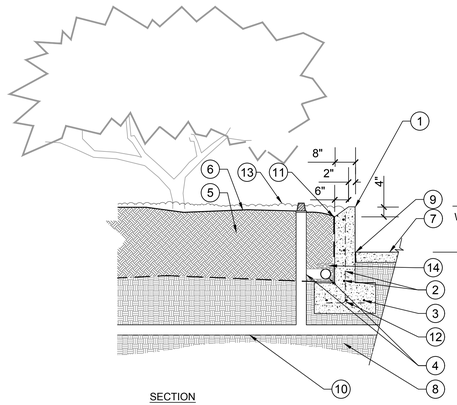
END ELEVATION

LEGEND:
1. SEAT WALL PER PLANS
2. ADJACENT PLANTING AREA. SEE PLANS
3. COMPACTED SUBGRADE AT 95% RELATIVE COMPACTION PER SOILS REPORT
4. 1/4" RAD. ON OUTSIDE EDGES
5. SLOPE TO DRAIN 2% MIN. PER GRADING PLANS
6. CONCRETE PAVING PER PLAN (SEE DETAIL)
7. EXPANSION JOINT
8. #4 REBAR, VERTICAL, 18" O.C.
9. #4 REBAR, HORIZONTAL, 18" O.C.
10. SKATEBOARD DETERRENT REVEAL- BEGIN 2'-0" FROM END OF WALL AND PLACE EVERY 4'-0" PER ENLARGEMENT, ALIGN SCORE AND/OR EXPANSION JOINTS WITH DETERRENT.

NOTES:
A. SEE CONSTRUCTION PLAN FOR CONCRETE FINISH AND COLOR.
B. PROVIDE CONSTRUCTION AND EXPANSION JOINTS PER SDRSD C-15 AND ALIGNED WITH SKATE DETERRENT REVEAL. PROVIDE CONTROL JOINTS AT 32' O.C. AND EXPANSION JOINTS AT 96' O.C.

1 CONCRETE SEATWALL

NO SCALE



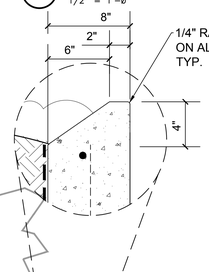
SECTION

LEGEND:
1. POURED-IN-PLACE CONCRETE PLANTER WALL WITH 1/4" RADIUS ON ALL EDGES
2. #5 VERTICAL AND HORIZONTAL AT 18" O.C.
3. (2) #5 CONTINUOUS AT BOTTOM
4. 3" FILTER FABRIC WRAPPED "PERF PIPE", CONNECT TO STROM DRAIN (SEE CIVIL PLANS.)
5. PLANTING SOIL
6. PLANTER FINISH GRADE
7. ADJACENT SURFACE PER LANDSCAPE PLAN
8. COMPACTED SUBGRADE PER GEOTECH REPORT
9. EXPANSION JOINT WHERE WALL MEETS HARDSCAPE
10. DRAIN PER CIVIL PLANS
11. WATERPROOFING WITH DRAIN MAT
12. ALTERNATING HOOKS
13. 2" MULCH LAYER
14. 1/2" - 3/4" CRUSHED GRAVEL WRAPPED IN FILTER FABRIC. PROVIDE 3" MIN. LAYER OF GRAVEL AROUND PERFORATED PIPE, TYP.

NOTE:
A. ALL FINISHES ARE PER CONSTRUCTION LEGEND - SEE SHEET LC-1.0
B. REBAR SHALL HAVE 3" CLEAR MIN AND 8" OVERLAP MIN.
C. PLANTER WALLS SHALL HAVE A 1/4" RADIUS ON ALL EDGES.

2 CAST IN PLACE CONCRETE PLANTER

1/2" = 1'-0"



PLAN

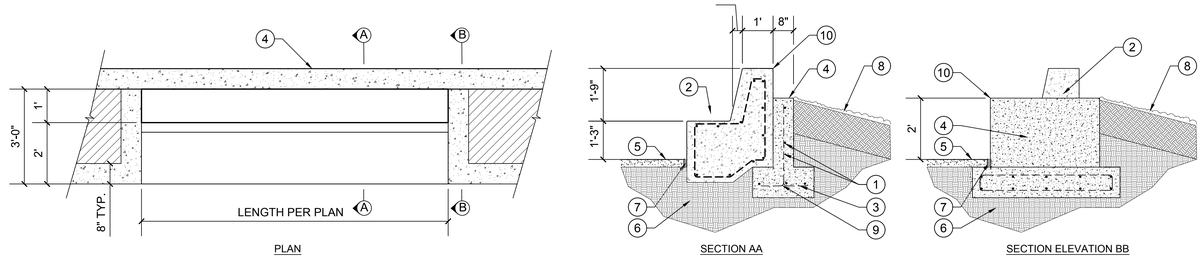
SECTION

LEGEND:
1. POURED-IN-PLACE CONCRETE PLANTER WALL
2. #5 VERTICAL AND HORIZONTAL AT 18" O.C.
3. (2) #5 CONTINUOUS AT BOTTOM
4. 3" FILTER FABRIC WRAPPED "PERF PIPE", CONNECT TO STROM DRAIN (SEE CIVIL PLANS.)
5. TOPSOIL
6. PLANTER FINISH GRADE
7. ADJACENT PAVING PER LANDSCAPE PLAN
8. COMPACTED SUBGRADE PER SOILS REPORT
9. LED ROPE LIGHT, SEE ELECTRICAL PLANS
10. EXPANSION JOINT
11. DRAIN PER CIVIL PLANS
12. WATERPROOFING WITH DRAIN MAT
13. ADJACENT SITE WALL PER PLANS
14. ALTERNATING HOOKS
15. 2" MULCH LAYER
16. 1/2" - 3/4" CRUSHED GRAVEL WRAPPED IN FILTER FABRIC. PROVIDE 3" MIN. LAYER OF GRAVEL AROUND PERFORATED PIPE, TYP.

NOTE:
A. ALL FINISHES ARE PER CONSTRUCTION LEGEND - SEE SHEET LC-1.0
B. REBAR SHALL HAVE 3" CLEAR MIN AND 8" OVERLAP MIN.
C. PLANTER WALLS SHALL HAVE A 1/4" RADIUS ON ALL EDGES.

3 CAST IN PLACE CONCRETE PLANTER WITH LIGHT REVEAL

1/2" = 1'-0"



PLAN

SECTION AA

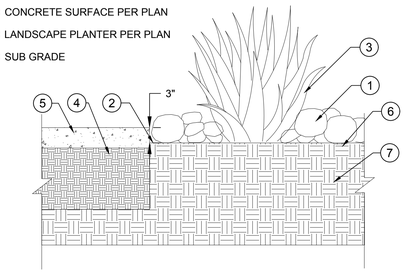
SECTION ELEVATION BB

LEGEND:
1. #5 VERTICAL AND HORIZONTAL AT 18" O.C.
2. POURED-IN-PLACE CONCRETE BENCH
3. (2) #5 CONTINUOUS AT BOTTOM
4. ADJACENT PLANTER WALL PER PLANS
5. ADJACENT PAVING PER PLANS
6. COMPACTED SUBGRADE PER SOILS REPORT
7. EXPANSION JOINT
8. ADJACENT PLANTING BED PER PLANS
9. ALTERNATING HOOKS
10. 1/4" RAD. ON ALL EDGES TYP.

4 CUSTOM SEATING AT DINING PATIO

1/2" = 1'-0"

1. COBBLE STONE MULCH PER PLANS.
2. FINISH GRADE OF PLANTER BED SHALL BE 3" LOWER THAN ADJACENT CONCRETE SURFACE.
3. SHRUBS PER PLAN
4. COMPACTED NATIVE SOIL PER GEOTECHNICAL REPORT
5. CONCRETE SURFACE PER PLAN
6. LANDSCAPE PLANTER PER PLAN
7. SUB GRADE



5 COBBLE MULCH

1" = 1'-0"

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

2.3

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE CONSTRUCTION DETAILS

Sheet No.
2LC-505

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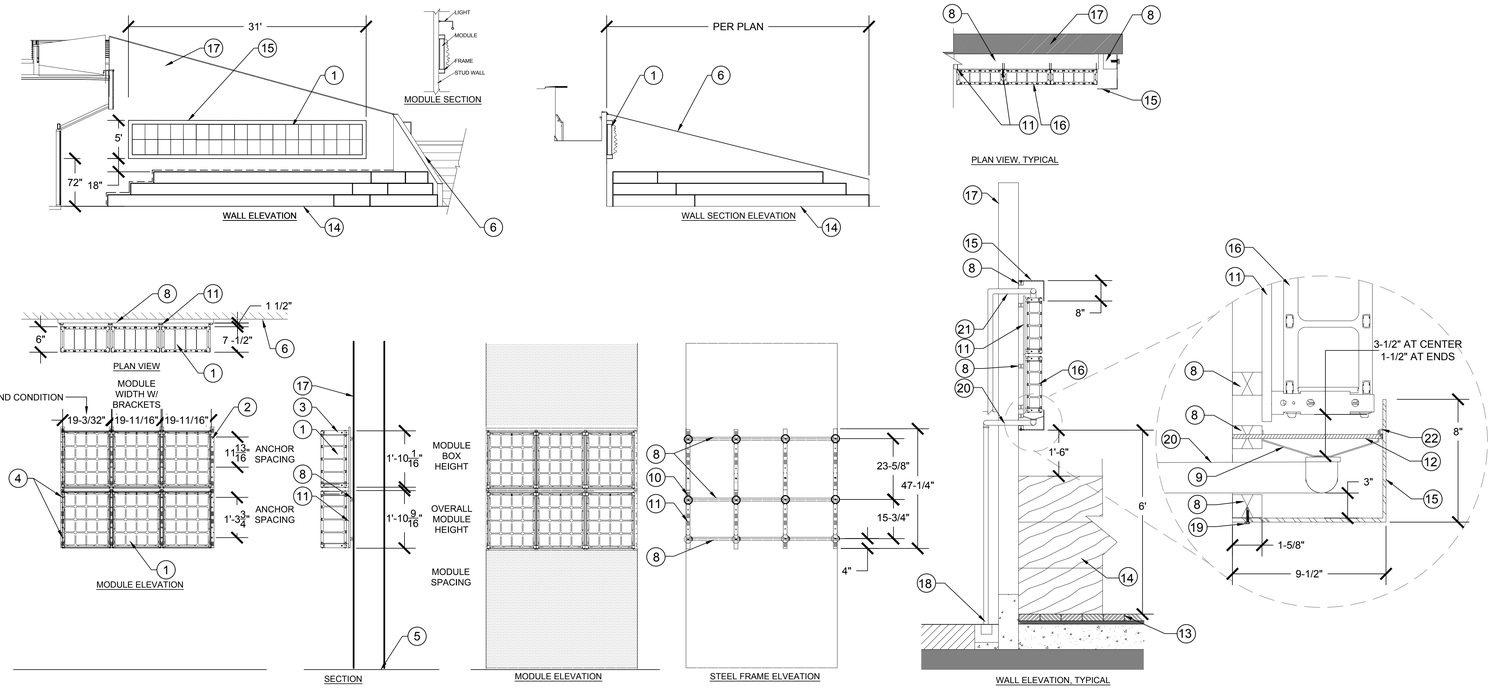


1 GREEN WALL MODULES

NO SCALE

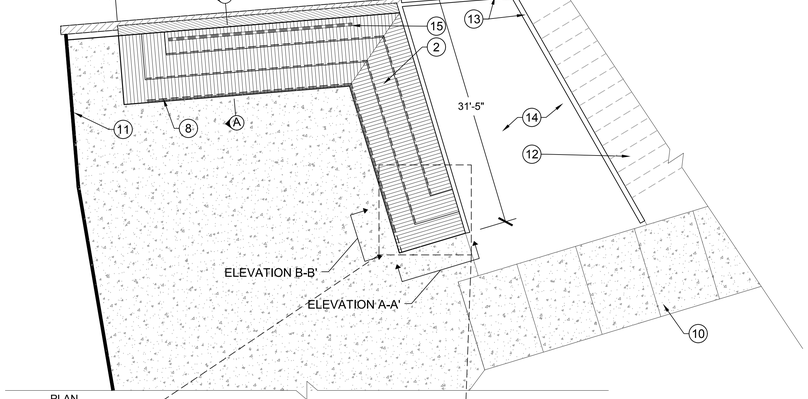
LEGEND:

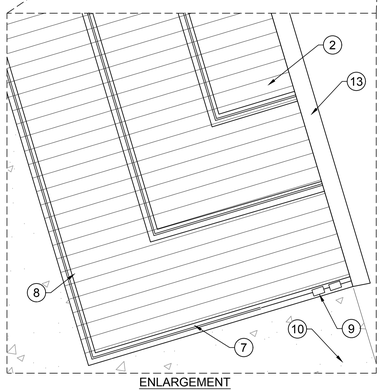
1. TOURNESOL VGM MODULE WITH VGM3 MEDIA BLOCK, 6" DEPTH. AVAILABLE THROUGH TOURNESOL OR APPROVED EQUAL. PH: 800-542-2282
2. STAINLESS STEEL MOUNTING RAIL. MODEL #'s: VGMR-3 RAIL, VGMR-2 RAIL, AND VGMR-1 RAIL. COMBINE TO ACHIEVE NECESSARY HEIGHT. ATTACH TO WALL WITH STAINLESS STEEL ANCHOR AT APPROPRIATE SPACING. 2 ANCHOR PER MODULE PER RAIL
3. ANTI-LIFT ARM PLACED AT TOP OF MODULE OF EACH MOUNTING RAIL
4. ANCHORS. 2 PER MODULE PER RAILING.
5. GRADE - SEE CIVIL PLANS
6. RETAINING WALL, SEE STRUCTURAL PLANS
7. NOT USED
8. P1000 SERIES UNI-STRUT. 1-5/8" x 1-5/8" GALVANIZED STEEL 12 GAUGE UNISTRUT ANCHORED TO STUDS WITH #10 SCREWS AND WASHERS. NO PIERCINGS ON UNISTRUT.
9. 18 GAUGE GALVANIZED SHEET METAL DRAIN PAN. CENTER DRAIN IN MIDDLE OF GREEN WALL. SLOPE SIDES TO CENTER
10. VGM RAIL MOUNTING POINT. SECURE EACH MOUNTING RAIL TO TUBULAR STEEL FRAME WITH (6)1/4" DIAMETER GALVANIZED STEEL THROUGH BOLTS WITH GALVANIZED HARDWARE.
11. VGM SYSTEM MOUNTING RAIL BY MANUFACTURER.
12. THREADED ROD
13. PAVING PER PLAN
14. ADJACENT SEATWALL
15. STEEL L-BRACKET AT TOP, BOTTOM AND SIDES OF LIVING WALL. 3/16" PLATE L-BRACKET FRAME TO CONCEAL EDGES OF STRUCTURE, BOLTED TO UNISTRUT AT 18" O.C. BRACKET TO BE PAINTED WARM GRAY TO MATCH ARCHITECTURAL COLUMN COVERS.
16. VGM MODULAR LIVING WALL SYSTEM BY TOURNESOL.
17. STUD WALL AT STAIR. 16GA STUDS SPACED 16" O.C. TYP. SEE ARCHITECTURAL PLANS.
18. CONNECTION TO STORM DRAIN PER CIVIL DRAWINGS
19. #10 SCREWS AND WASHERS SPACED AT 16" O.C. TYP.
20. 1-1/2" ABS DRAIN PIPE CONNECTED TO SUB-DRAIN SYSTEM. SEAL CONNECTION TO DRAIN PAN WITH WATERPROOF SILICON SEALANT.
21. 1/2" DIAMETER FLEXIBLE IRRIGATION LATERAL. DRILL HOLES THOUGH METAL FRAMING AS NECESSARY TO ROUTE IRRIGATION LATERAL THROUGH STRUCTURE TO CONNECTION POINTS AT VGM BOXES.
22. STEEL HANGER TAB WELDED TO STEEL L-BRACKET. HANGER TAB TO REST ON THREADED ROD.

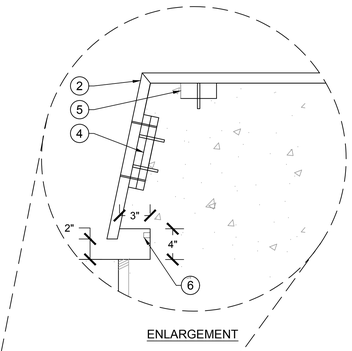
NOTES:

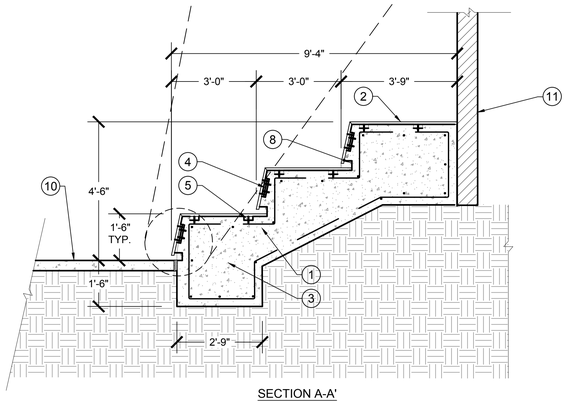
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
2. ALL VGM LIVING WALL COMPONENTS ARE TO BE COORDINATED WITH TOURNESOL SITE WORKS,(800) 542-2282, CONTACT: JON WILLINGHAM, JWILLINGHAM@TOURNESOLSITEWORKS. SPACING OF TUBULAR STEEL POSTS TO BE COORDINATED WITH TOURNESOL'S VGM RAIL SPACING RECOMMENDATIONS
3. PROVIDE LANDSCAPE ARCHITECT WITH (2) SETS OF STRUCTURAL ENGINEER SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION
4. PLANT MATERIAL FOR LIVING WALL MODULES SHALL BE CONTRACT GROWN PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH JIM MUMFORD OF GREENSCAPED BUILDINGS IN COORDINATION WITH TOURNESOL SITE WORKS AND ALLOW A MINIMUM OF 2 MONTHS GROWING TIME TO ESTABLISH PLANT MATERIAL PRIOR TO INSTALLATION. GREENSCAPED BUILDINGS SHALL PERFORM INSTALLATION OF GREEN WALL PANELS, PLANTS, AND IRRIGATION SYSTEM. GREENSCAPED BUILDINGS, PHONE: 858-576-9300
5. CONTRACTOR SHALL LOCATE CLOSEST AVAILABLE WATER SOURCE FOR IRRIGATION TIE-IN. CONTRACTOR TO PROVIDE AUTOMATIC DRIP IRRIGATION CONTROL VALVE, RAIN BIRD XCZ-100-PRB OR APPROVED EQUAL CONNECTED TO POTABLE WATER CONNECTION .
6. METAL COMPONENTS TO BE HOT DIP GALVANIZED AND RECEIVE (1) COAT SHOP-APPLIED RUSTPROOF GRAY PRIMER, (1) COAT FIELD-APPLIED RED PRIMER AND (2) COATS FIELD-APPLIED. PAINT COLOR PER LANDSCAPE ARCHITECT.
7. CONTRACTOR IS REQUIRED TO OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
8. FIELD VERIFY ACTUAL SITE CONDITION PRIOR TO SUBMITTING SHOP DRAWINGS AND STARTING WORK.
9. WELDS TO BE CONTINUOUS AND GROUND SMOOTH.
10. MEMBER SIZE, REINFORCING, FOOTING DIMENSIONS, AND BASE INFORMATION ARE SHOWN FOR BID PURPOSES ONLY. VERIFY AND COMPLY WITH REQUIREMENTS NOTED IN THE GEOTECHNICAL SOILS REPORT AND STRUCTURAL ENGINEER'S PLANS.

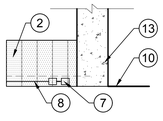
2.2

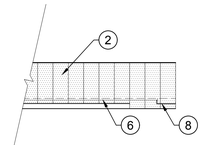









SIDE ELEVATION A-A'
SCALE: 1/2" = 1'-0"


FRONT ELEVATION B-B'
SCALE: 1/2" = 1'-0"

LEGEND

1. POURED IN PLACE CONCRETE STADIUM SEATING
2. 5/4" X 6" NOM. IPE SLATS LAID PERPENDICULAR TO WALL
3. CONCRETE FOOTING; REINFORCEMENT PER STRUCTURAL ENGINEER
4. PRESSURE TREATED (2) 1X8 NAILERS, FLUSH WITH TOP OF CONCRETE
5. PRESSURE TREATED 2X4 NAILERS, FLUSH WITH TOP OF CONCRETE
6. LED ROPE LIGHT PER ELECTRICAL DRAWINGS
7. JUNCTION BOX PER ELECTRICAL DRAWINGS
8. ELECTRICAL CONDUIT PER ELECTRICAL DRAWINGS
9. POWER SUPPLY PER ELECTRICAL DRAWINGS
10. ADJACENT PAVING PER PLANS
11. STUD WALL, SEE ARCHITECTURAL PLANS
12. STAIRS, SEE ARCHITECTURAL DRAWINGS
13. SITE WALL PER ARCHITECTURAL PLANS
14. PLANTING AREA PER PLANS
15. INTEGRATED LED UPLIGHT PER LIGHTING PLAN

NOTES:

1. SEE CONSTRUCTION PLAN FOR CONCRETE FINISH AND COLOR

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

2 SEATING AT GREENWALL - PLAN ENLARGEMENT

VARIOUS SCALES

GENE THEORY -
CP-2
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REDWOOD CITY, CA 94063

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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LANDSCAPE CONSTRUCTION DETAILS

Sheet No.
2LC-506

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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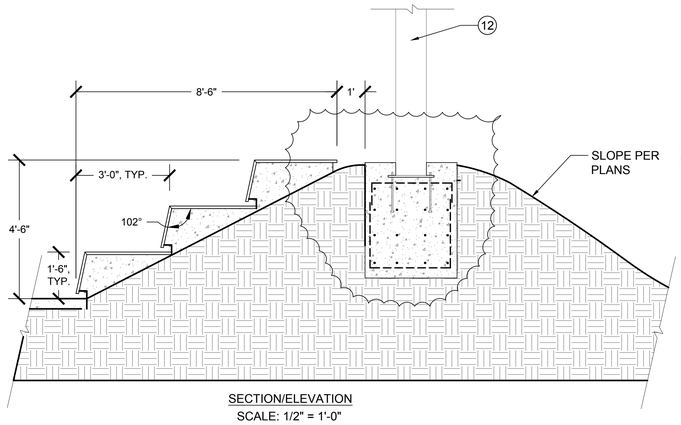
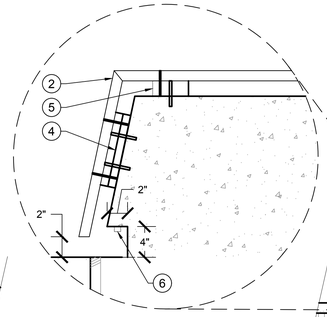
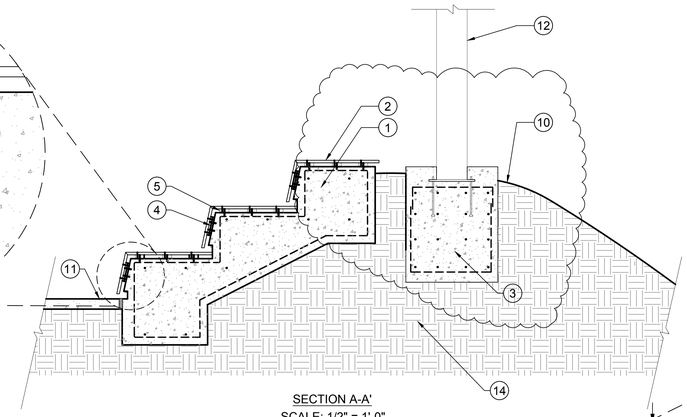


SECTION/ELEVATION
SCALE: 1/2" = 1'-0"

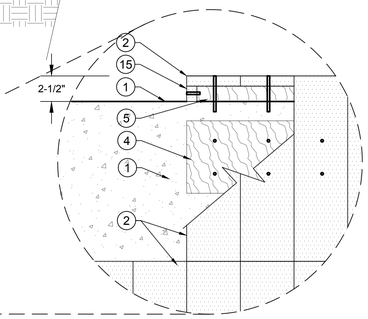


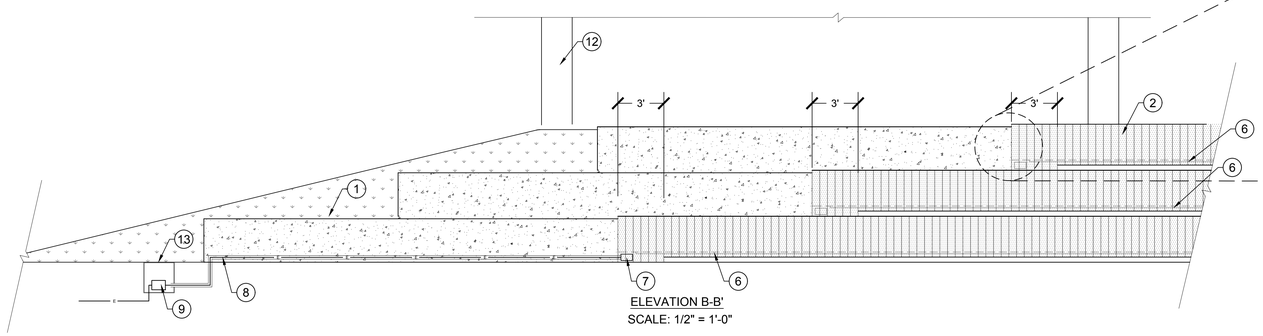
ENLARGEMENT



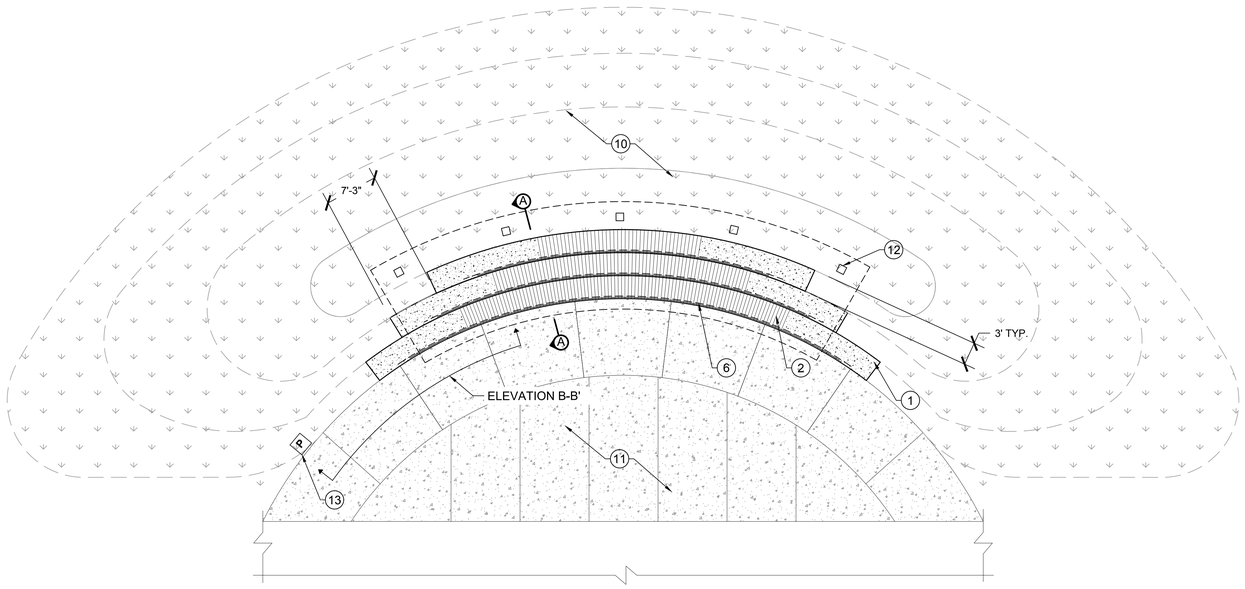
SECTION A-A'
SCALE: 1/2" = 1'-0"

2.2





ELEVATION B-B'
SCALE: 1/2" = 1'-0"



PLAN
SCALE: 1/8" = 1'-0"

LEGEND

1. POURED IN PLACE CONCRETE SEAT WALL
2. 5/4" X 6" NOM. IPE SLATS LAID PERPENDICULAR TO SEAT WALL. RADIAL CUT AS NEEDED. CONTINUOUS PLANKS, NO SEAMS.
3. CONCRETE FOOTING; REINFORCEMENT PER STRUCTURAL ENGINEER
4. PRESSURE TREATED (2) 1X8 NAILERS
5. PRESSURE TREATED 2X4 NAILERS
6. LED ROPE LIGHT PER ELECTRICAL DRAWINGS
7. JUNCTION BOX PER ELECTRICAL DRAWINGS, CONCEALED BEHIND IPE SLATS.
8. ELECTRICAL CONDUIT PER ELECTRICAL DRAWINGS
9. LED DRIVER IN HAND HOLE PER ELECTRICAL DRAWINGS
10. ADJACENT PLANTING AREA PER PLANTING PLANS
11. ADJACENT PAVING PER PLANS
12. TRELLIS COLUMN, SEE DETAIL 1/SHT. 2LC-509. COLUMN TO BE PAINTED WARM GRAY TO MATCH ARCHITECTURAL COLUMN COVERS.
13. PULL BOX PER ELECTRICAL DRAWINGS
14. COMPACTED SUBGRADE
15. IPE ENDCAP

NOTES:
1. SEE CONSTRUCTION PLAN FOR CONCRETE FINISH AND COLOR

1 STADIUM SEATING AT TRELLIS - PLAN ENLARGEMENT

VARIOUS SCALES

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
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2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LANDSCAPE CONSTRUCTION DETAILS

Sheet No.
2LC-507

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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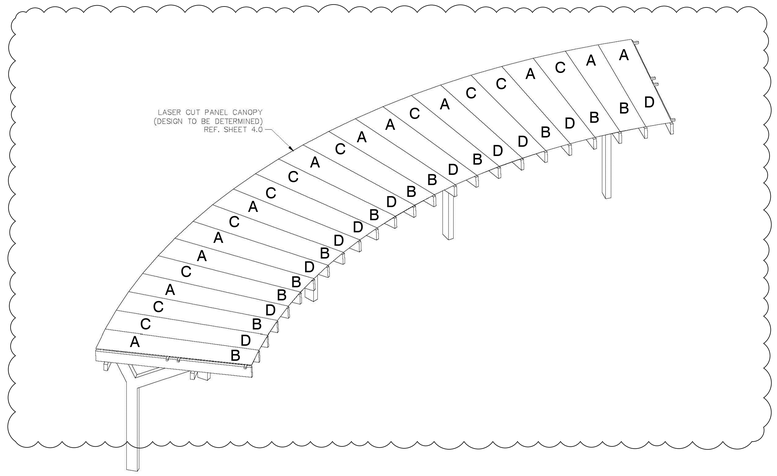
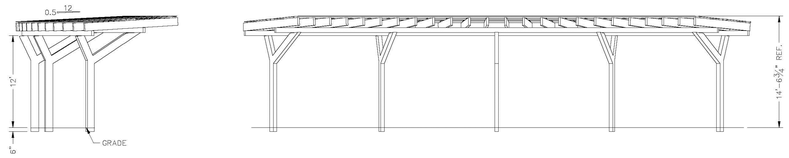
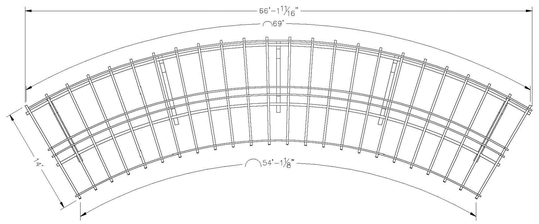
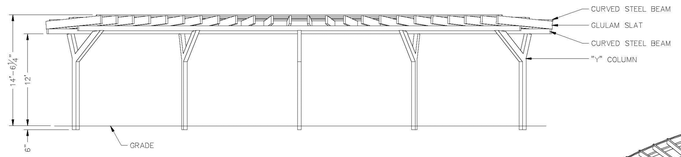
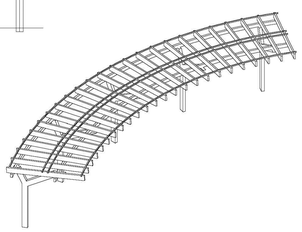


2.3









ALL STRUCTURAL COMPONENTS WILL BE:
TUBE: ASTM A500 GRADE B
PLATE: ASTM A36
BOLTS: ASTM A325
NUTS: ASTM A563
WELDING: GMAW

NOTE:
COLUMN SIZE: HSS 12x6x3/16

Z (INSIDE OF BUILDING)
Y

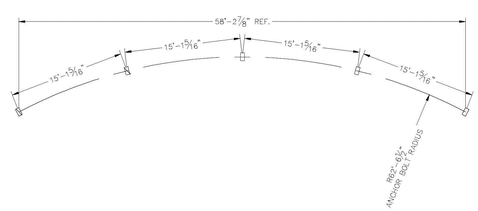
THESE FOUNDATION LOADS ARE FOR ESTIMATING PURPOSE ONLY.
THE ACTUAL LOADS WILL BE DETERMINED IN THE FINAL ENGINEERING

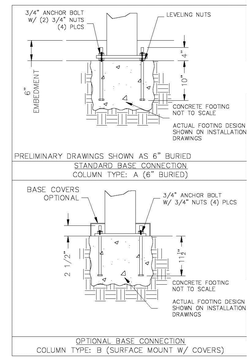
LOADS TO FOUNDATION (50PSI, IN-KIPS)

LOAD COMBINATION	FOUNDATION LOADS				
	AXIAL (Fx)	SHEAR (Fy)	SHEAR (Fz)	MOMENT (M_y)	MOMENT (M_z)
DL	3.43	0.00	−0.05	−87.95	0.00
SL	6.33	−0.04	−0.18	−194.42	−2.07
W−UPLIFT	−3.23	−1.71	−0.05	110.64	−145.31
W−FY	−2.72	−2.02	−0.18	126.54	−161.23
W−FZ	−1.41	−0.53	−0.48	134.54	−84.72
E−FY	0.00	−2.21	0.00	0.00	−176.38
E−Z	0.00	0.00	1.79	−285.60	0.00

NOTES:
– TABLE SHOWS UNFACTORED SERVICE LOADS
– A FOUNDATION DESIGN HAS NOT BEEN PERFORMED BY ICON SHELTER SYSTEMS INC.
– A LICENSED ENGINEER FAMILIAR WITH SOIL CONDITIONS AT CONSTRUCTION SITE MUST PERFORM A FOUNDATION DESIGN.
– THE STRUCTURE HAS BEEN ENGINEERED AS AN OPEN STRUCTURE.
– CONSULT ICON SHELTER SYSTEMS INC. IF THE STRUCTURE IS TO BE ENCLOSED.
– COORDINATES ARE LOCAL TO THE COLUMN

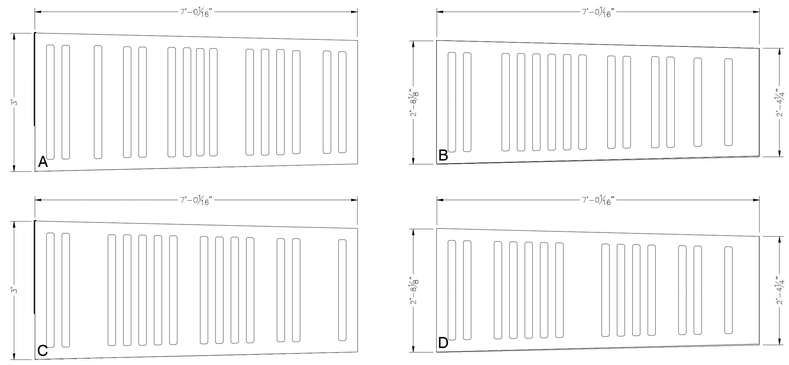
DEFINITIONS:
DL = SERVICE LEVEL DEAD LOAD REACTION WITH THE GREATEST AXIAL LOAD
SL = SERVICE LEVEL SNOW LOAD REACTION WITH THE GREATEST AXIAL LOAD
W−UL = SERVICE LEVEL WIND LOAD REACTION WITH THE GREATEST UPLIFT LOAD
W−Y = SERVICE LEVEL WIND LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE LOCAL Y DIRECTION
W−Z = SERVICE LEVEL WIND LOAD REACTION WITH THE GREATEST SHEAR VALUE ACTING IN THE SAME DIRECTION AS THE DL SHEAR LOAD
E−Y = SERVICE LEVEL SEISMIC LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE LOCAL Y DIRECTION
E−Z = SERVICE LEVEL SEISMIC LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE LOCAL Z DIRECTION





PRELIMINARY DRAWINGS SHOWN AS 6" BURIED
STANDARD BASE CONNECTION
COLUMN TYPE: A (6" BURIED)

OPTIONAL BASE CONNECTION
COLUMN TYPE: B (SURFACE MOUNT W/ COVERS)



10GA LASER CUT PANELS
(DESIGN TO BE DETERMINED, LEAF PATTERN SHOWN)

NOTE:
1. SHADE STRUCTURE DETAIL IS TYPICAL, PROVIDED FOR BID PURPOSES ONLY. CONSTRUCTION DETAIL WITH FULL ENGINEERING OF STRUCTURE TO BE PROVIDED BY MANUFACTURER AT AWARD OF CONTRACT.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
3. COLUMNS, STEEL BEAMS, AND ROOF PANELS TO BE PAINTED WARM GRAY TO MATCH ARCHITECTURAL COLUMN COVERS
4. SHADE STRUCTURE UNDER SEPARATE PERMIT*.

1 SCHEMATIC TRELLIS STRUCTURE PER ICON OR SITE-BUILT (FOR BID PURPOSES ONLY)
1/2" = 1'-0"

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CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE CONSTRUCTION DETAILS

Sheet No.
2LC-508

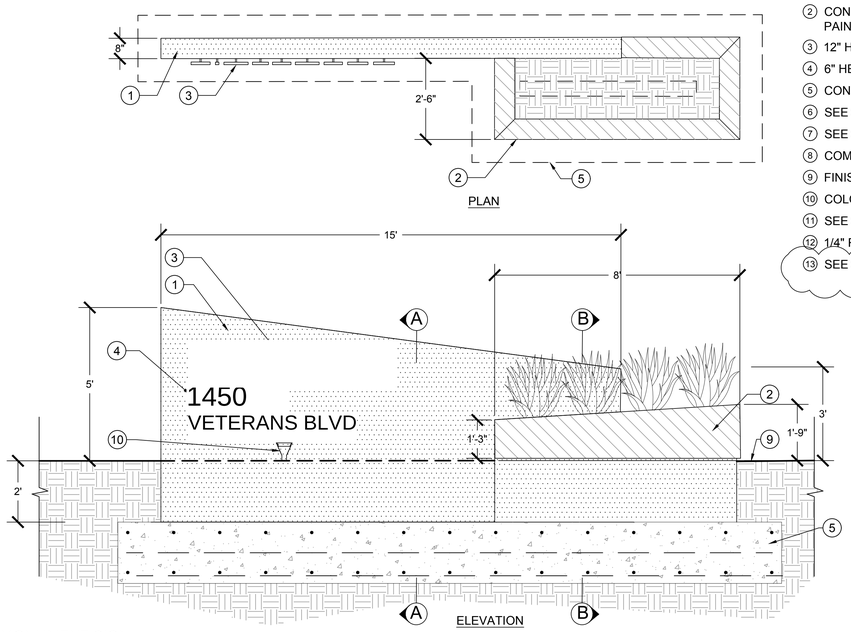
DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

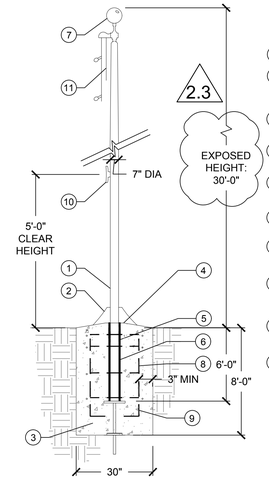
LEGEND

1. CAST IN PLACE INTEGRAL COLOR CONCRETE ENTRY MONUMENT WALL
2. CONCRETE PLANTER WITH 8 GA. GALVANIZED SHEET METAL VENEER. VENEER TO WRAP TOP OF PLANTER. PAINT METAL WARM GREY TO MATCH ARCHITECTURAL COLUMN COVERS.
3. 12" HEIGHT STAINLESS STEEL PIN MOUNTED LETTERING. FONT: TBD.
4. 6" HEIGHT STAINLESS STEEL PIN MOUNTED LETTERING. FONT: TBD.
5. CONCRETE FOOTING
6. SEE STRUCTURAL DETAILS: 22/2S-544 AND 23/2S-544
7. SEE STRUCTURAL DETAILS: 22/2S-544 AND 23/2S-544
8. COMPACTED SUBGRADE PER GEOTECH REPORT
9. FINISH GRADE
10. COLOR CHANGING LED UP LIGHT, SEE LIGHTING AND ELECTRICAL PLAN
11. SEE STRUCTURAL DETAILS: 22/2S-544 AND 23/2S-544
12. 1/4" RADIUS ON ALL EDGES TYP.
13. SEE STRUCTURAL DETAILS: 22/2S-544 AND 23/2S-544

2.3



1 MONUMENT SIGN
1/2" = 1'-0"



LEGEND

1. FLAG POLE PER CONSTRUCTION LEGEND. INSTALL PER MANUFACTURER'S RECOMMENDATION
2. ALUMINUM FLASH COLLAR
3. 3000 PSI CONCRETE FOOTING PER MANUFACTURER'S RECOMMENDATION.
4. HARDWOOD WEDGES. (SUPPLIED BY CONTRACTOR)
5. DRY SAND TIGHTLY TAMPED AFTER ALIGNING POLE.
6. EMBED FLAGPOLE PER DEPTH SHOWN
7. 6", 14 GAUGE SPUN ALUMINUM BALL
8. SEE STRUCTURAL DETAIL: 27/2S-544
9. SEE STRUCTURAL DETAIL: 27/2S-544
10. 9" CAST ALUMINUM CLEAT WITH LOCKING CLEAT COVER
11. SINGLE SHEAVE TRUCK, CAST ALUMINUM REVOLVING, NON-FOULING TYPE WITH STAINLESS STEEL BALL BEARINGS

2 FLAG POLE FOOTING (30`)
NTS

1. 2X6 REDWOOD LUMBER
2. 4X4 REDWOOD POST
3. AMENDED TOPSOIL
4. STAINLESS LAG SCREW(S) TO BE COUNTERSUNK AND FLUSH WITH BOARD.
5. COMPACTED SUBGRADE PER SOILS REPORT
6. ADJACENT D.G.
7. PLANTER FINISHED GRADE
8. WATERPROOFING MEMBRANE LINER
9. FILTER FABRIC TO BE STAPLED IN PLACE - 24" O.C.
10. WIRE MESH TO BE STAPLED IN PLACE - 24" O.C.
11. 2 X 6 REDWOOD CAP. ATTACH WITH STAINLESS DECK SCREWS, TYPICAL.

3 ADA ACCESSIBLE RAISED GARDEN PLANTER
No Scale

1. 2X6 REDWOOD LUMBER
2. 4X4 REDWOOD POST
3. AMENDED TOPSOIL
4. STAINLESS LAG SCREW(S). TO BE COUNTERSUNK AND FLUSH WITH BOARD.
5. COMPACTED SUBGRADE PER SOILS REPORT
6. ADJACENT D.G.
7. PLANTER FINISHED GRADE
8. WATERPROOFING MEMBRANE LINER
9. FILTER FABRIC TO BE STAPLED IN PLACE - 24" O.C.
10. WIRE MESH TO BE STAPLED IN PLACE - 24" O.C.
11. 2 X 6 REDWOOD CAP. ATTACH WITH STAINLESS DECK SCREWS, TYPICAL.

4 RAISED GARDEN PLANTER
No Scale

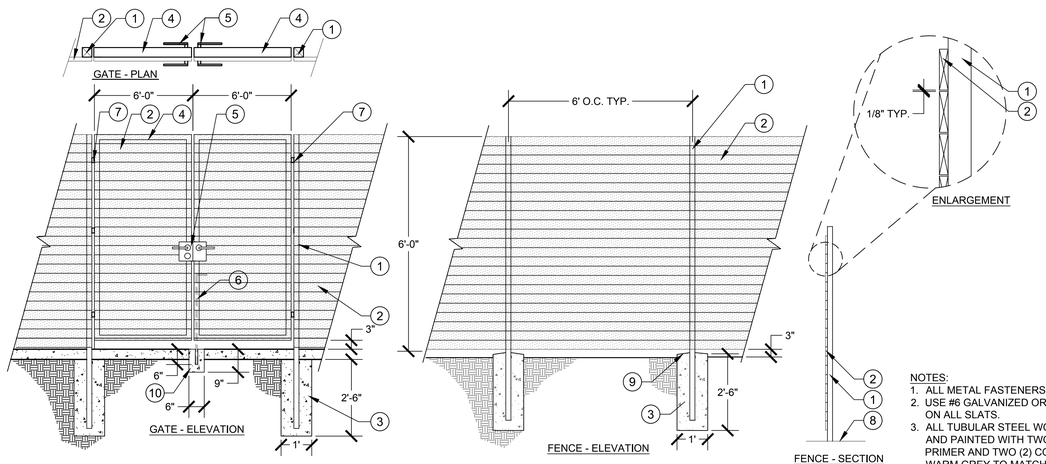
LEGEND:

1. 4" THICK DECOMPOSED GRANITE PAVING WITH SOIL STABILIZER. INSTALL (2) TWO, 2"-LAYERS; EACH LAYER PASS TO BE ROLLED SEPARATELY TO 90% MIN. COMPACTION. DECOMPOSED GRANITE INSTALLED OVER 2" CLASS II AGGREGATE BASE.
2. WHEN ADJACENT TO CONCRETE PAVING, CONCRETE CURB OR ADJACENT AGGREGATE PATH; THE TOP OF D.G. PAVING TO MEET FLUSH (¼" MAX.) WITH TOP OF ADJACENT.
3. COMPACTED SUBGRADE 95% MINIMUM.

NOTES:

A. SEE CONSTRUCTION PLAN FOR DECOMPOSED GRANITE PAVING. TYPE AND MANUFACTURER.
B. SUBMIT SAMPLE OF DECOMPOSED GRANITE PAVING PRIOR TO INSTALLATION FOR APPROVAL OF COLOR.
C. STABILIZER TO BE BLENDED INTO DECOMPOSED GRANITE PAVING PRIOR TO DELIVERY TO SITE.

5 STABILIZED DECOMPOSED GRANITE PAVING
NO SCALE



LEGEND:

1. 2" SQ. TUBULAR STEEL POST WITH CAP, PRIME AND PAINT WARM GRAY TO MATCH ARCHITECTURAL COLUMN COVERS
2. 1" x 4" WESTERN RED CEDAR, PLANKING
3. CONCRETE FOOTING
4. TUBULAR STEEL GATE FRAME PRIME AND PAINT
5. GATE HARDWARE
6. STRIKE WITH DROP ROD
7. HEAVY DUTY GATE HINGE (x3)
8. FINISH GRADE
9. SLOPE TOP OF FOOTING AWAY FROM POST FINISH GRADE
10. CONCRETE FOOTING WITH STEEL SLEEVE FOR DROP ROD. SLEEVE SHALL BE 6" DEEP AND 2X THE WIDTH OF DROP ROD

NOTES:
1. ALL METAL FASTENERS TO BE GALVANIZED OR ZINC COATED
2. USE #6 GALVANIZED OR ZINC COATED SELF TAPING SCREWS ON ALL SLATS.
3. ALL TUBULAR STEEL WORK SHALL BE HOT-DIPPED GALVANIZED AND PAINTED WITH TWO (2) COATS CORROSION RESISTANT PRIMER AND TWO (2) COATS EXTERIOR ENAMEL PAINT. COLOR WARM GREY TO MATCH ARCHITECTURAL BUILDING TRIM.
4. CONTRACTOR TO SUBMIT SHOP DWG'S PRIOR TO FABRICATION.

6 WOODEN SCREENING FENCE WITH GATE
NTS

SEE SHEET 2LC-001 FOR LANDSCAPE CONSTRUCTION LEGEND & NOTES
SEE SHEET 2LC-002 FOR LANDSCAPE CONSTRUCTION OVERALL PLAN
SEE SHEET 2LC-100-2LC-106 FOR LANDSCAPE CONSTRUCTION PLANS
SEE SHEET 2LC-400-2LC-402 FOR LANDSCAPE PAVING ENLARGEMENTS
SEE SHEET 2LC-500-2LC-509 FOR LANDSCAPE CONSTRUCTION DETAILS

GENE THEORY-
CP-2
VOLUME 1

T 1450 VETERANS BLVD
S REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE CONSTRUCTION DETAILS

Sheet No.
2LC-509

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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RECYCLED WATER NOTES:

1. **TWO WORKING DAYS PRIOR** TO COMMENCEMENT OF ANY EXCAVATION ON SITE IMPROVEMENTS, CONTRACTOR SHALL NOTIFY REDWOOD CITY, PUBLIC UTILITIES DEPARTMENT, RECYCLED WATER SECTION AT .
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REDWOOD CITY RULES AND REGULATIONS FOR RECYCLED WATER USE AND DISTRIBUTION WITHIN THE REDWOOD CITY AND THE COUNTY OF DEPARTMENT OF ENVIRONMENTAL HEALTH REQUIREMENTS.
3. ALL BACKFLOW PREVENTER INSTALLATIONS AND LOCATIONS SHALL BE SUBJECTED TO APPROVAL BY THE REDWOOD CITY PUBLIC UTILITIES DEPARTMENT.
4. ALL PUBLIC FACILITIES SUCH AS COMFORT STATIONS, DRINKING FOUNTAINS, ETC. SHALL BE PROTECTED FROM SPRAY AND/OR MISTING BY RECYCLED WATER.
5. NO PONDING, RUN-OFF OR OVER-SPRAY IS PERMITTED. ADJUST ALL SPRINKLER HEADS TO PREVENT OVER SPRAYING ONTO SIDEWALKS, STREETS AND PRIVATE LOTS.
6. HOSE BIBS ON RECYCLED WATER SYSTEMS ARE PROHIBITED IN PUBLIC AREAS. ALL POTABLE HOSE BIBS ONSITE MUST BE PROTECTED BY A HOSE BIB VACUUM BREAKER.
7. CROSS CONNECTION BETWEEN RECYCLED WATER LINES AND POTABLE IS STRICTLY PROHIBITED.
8. QUICK COUPLING VALVES USED IN RECYCLED WATER SYSTEMS SHALL CONFORM TO THE FOLLOWING:
   A. A TYPE APPROVED FROM R RECYCLED WATER USE WITH A NORMAL WORKING PRESSURE OF 150 P.S.I.
   B. RECYCLED WATER QUICK COUPLER MUST BE DIFFERENT FROM POTABLE WATER QUICK COUPLER VALVES.
   C. IN ORDER TO PREVENT UNAUTHORIZED USE, THE VALVE SHALL BE OPERATED ONLY WITH A SPECIAL COUPLER KEY THAT DIFFERS FROM THE POTABLE KEY FOR OPENING AND CLOSING THE VALVE.
   D. THE COVER SHALL BE PERMANENTLY ATTACHED TO THE QUICK COUPLING VALVES. IT SHALL BE PURPLE RUBBER OR VINYL.
   E. LOCKING COVERS ARE REQUIRED.
9. NO SUBSTITUTION OF PIPE MATERIALS WILL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE REDWOOD CITY.
10. INSTALL APPROVED, METALLIC BACKED AND STENCILED WARNING TAPE OVER ALL PRESSURE RECYCLED WATER LINES. STENCIL AND COLOR CODE (PURPLE PANTONE 522) ALL IRRIGATION PIPE. ORIENT THE STENCILING TO THE TOP OF THE TRENCH.
11. PROVIDE A MINIMUM OF AT LEAST 18 INCHES OF COVERING OVER ALL WIRING AND PIPING.
12. OPERATE THE IRRIGATION SYSTEM ONLY BETWEEN 9:00 PM AND 6:00 AM, UNLESS THE CERTIFIED SITE SUPERVISOR IS PRESENT AT THE SITE DURING THE IRRIGATION PERIOD.
13. WHEN POTABLE WATER LINES AND RECYCLED WATER LINES CROSS, THE RECYCLED LINE SHALL BE INSTALLED WITHIN A PROTECTIVE SLEEVE. THE SLEEVE SHALL EXTEND 10 FEET FROM EACH SIDE, FROM THE CENTER LINE OF POTABLE LINE, FOR A TOTAL OF 20 FEET.
14. MAINTAIN A 10 FOOT HORIZONTAL SEPARATION BETWEEN POTABLE WATER AND RECYCLED WATER OR SEWER LINES. INSTALL SEWER LINE BELOW RECYCLED WATER LINE AND RECYCLED WATER LINE BELOW THE POTABLE WATER LINE.
15. PROVIDE A MINIMUM OF 12 INCHES OF VERTICAL SEPARATION BETWEEN POTABLE/ RECYCLED WATER/SEWER.
16. THE SITE IRRIGATION SYSTEMS AS SHOWN ON THESE DOCUMENTS WILL UTILIZE POTABLE WATER UNTIL SUCH TIME AS THE REDWOOD CITY MAKES RECYCLED WATER AVAILABLE TO THE SITE.
17. INSTALL PURPLE COLORED PANTONE #522 MATERIAL FOR ALL ABOVE GROUND IRRIGATION FACILITIES:
    - VALVE AND OTHER ON GRADE BOXES - INTEGRAL COLOR
    - BACKFLOW DEVICES - PAINTED 2 COATS OF ENAMEL
    - SPRINKLER HEADS - INTEGRAL COLOR PLASTIC
18. TAG ALL VALVES AND OTHER BELOW GRADE APPURTENANCES WITHIN BOXES WITH PERMANENT RECYCLED WATER LABELS IN BOTH ENGLISH AND SPANISH THAT IDENTIFY RECYCLED WATER IN USE ("RECYCLED WATER - DO NOT DRINK"). ATTACH THE LABEL WITH EITHER STAINLESS STEEL WIRE OR SELF LOCKING PLASTIC TIES.
19. THE REQUIRED INITIAL CROSS CONNECTION TEST SHALL BE DONE BY THE REDWOOD CITY PUBLIC UTILITIES DEPARTMENT AND MONITORED BY THE COUNTY OF DEPARTMENT OF ENVIRONMENTAL HEALTH. COPIES OF INSPECTION REPORTS WILL BE FORWARDED TO THE NON-INSPECTING PARTY.
20. THE DESIGN LOCATIONS PROPOSED FOR RECYCLED WATER "DO NOT DRINK" SIGNS SHALL BE CALLED OUT ON THE PLANS.
24. CALL OUT ON THE PLANS IF THERE ARE OR ARE NOT ANY DRINKING FOUNTAINS AND/OR DESIGNATED OUTDOOR EATING AREAS ON THE SITE.
25. ALL PUBLIC AND PRIVATE POTABLE WATER MAINS INCLUDING FIRE MAINS AND ANY WATER WELLS AND WATER COURSES WITHIN THE RECYCLED WATER PROJECT SHALL BE SHOWN ON THE PLANS.
26. EDUCATE ALL MAINTENANCE PERSONNEL ON A CONTINUOUS BASIS OF THE PRESENCE OF RECYCLED WATER. PERSONNEL MUST BE INFORMED THAT RECYCLED WATER IS MEANT FOR IRRIGATION PURPOSES ONLY, AND IS NOT APPROVED FOR DRINKING PURPOSES, HAND WASHING, CLEANING OF TOOLS, ETC. GIVEN THE HIGH TURNOVER RATE OF EMPLOYEES IN THE LANDSCAPE INDUSTRY, IT IS IMPORTANT THIS INFORMATION BE DISSEMINATED ON AN ALMOST DAILY BASIS.
27. PRIOR TO INSTALLATION OF ANY RECYCLED WATER WORK, IT MUST BE INSPECTED BY RECYCLED WATER PROGRAM PERSONNEL. THE INITIAL CROSS CONNECTION TEST SHOULD BE PERFORMED USING POTABLE WATER WITH AN APPROVED BACKFLOW DEVICE.
28. ALL INITIAL IRRIGATION SHALL USE POTABLE WATER. NO RECYCLED WATER SHALL BE USED UNTIL THE SITE HAS PASSED THE CROSS-CONNECTION TEST AND HAS BEEN APPROVED BY THE REDWOOD CITY AND COUNTY OF SAN MATEO

SIGNAGE NOTES

THE FOLLOWING GUIDELINES FOR THE USE OF RECYCLED WATER ARE TO BE PERMANENTLY POSTED INSIDE THE DOOR OF EACH CONTROLLER WHERE THEY ARE EASY VISIBLE. PLACE ON 8-½" x 11" SIZE SIGN. COLOR: PURPLE BACKGROUND WITH BLACK LETTERING.

GUIDELINES FOR RECYCLED WATER USE

1. IRRIGATE BETWEEN THE HOURS OF 9:00 PM AND 6:00 AM ONLY. WATERING OUTSIDE THIS TIME FRAME MUST BE DONE MANUALLY WITH QUALIFIED SUPERVISORY PERSONNEL ON-SITE. NO SYSTEM SHALL BE AT ANY TIME BE LEFT UNATTENDED DURING USE OUTSIDE THE NORMAL SCHEDULE.
2. IRRIGATE IN A MANNER THAT WILL MINIMIZE RUN-OFF, POOLING, AND PONDING. THE APPLICATION RATE SHALL NOT EXCEED THE INFILTRATION RATE OF THE SOIL. TIMERS MUST BE ADJUSTED SO AS TO BE COMPATIBLE WITH THE LOWEST SOIL INFILTRATION RATE PRESENT.THIS PROCEDURE MAY BE FACILITATED BY THE EFFICIENT SCHEDULING OF THE AUTOMATIC CONTROL CLOCKS: (I.E., EMPLOYING THE REPEAT FUNCTION TO BREAK UP THE TOTAL IRRIGATION TIME INTO CYCLES THAT WILL PROMOTE MAXIMUM SOIL ABSORPTION).
3. ADJUST SPRAY HEADS TO ELIMINATE OVER SPRAY ONTO AREAS NOT UNDER THE CONTROL OF THE CUSTOMER. FOR EXAMPLE POOL DECKS, PRIVATE PATIOS AND LOTS, AND STREETS AND SIDEWALKS.
4. MONITOR AND MAINTAIN THE SYSTEM TO MINIMIZE EQUIPMENT AND MATERIAL FAILURE. BROKEN SPRINKLER HEADS, LEAKS, UNRELIABLE VALVES, ETC. SHOULD BE REPAIRED AS THEY BECOME APPARENT.
5. EDUCATE ALL MAINTENANCE PERSONNEL ON A CONTINUOUS BASIS ABOUT THE PRESENCE OF RECYCLED WATER. PERSONNEL MUST BE INFORMED THAT RECYCLED WATER IS MEANT FOR IRRIGATION PURPOSES ONLY, AND NOT APPROVED FOR DRINKING PURPOSES, HAND WASHING, CLEANING OF TOOLS, ETC. GIVEN THE HIGH TURNOVER RATE OF EMPLOYEES IN THE LANDSCAPE INDUSTRY, IT IS IMPORTANT THAT THIS INFORMATION BE DISSEMINATED ON AN ALMOST DAILY BASIS. IT IS YOU, THE LANDSCAPE CONTRACTOR, WHO IS RESPONSIBLE FOR EDUCATING EACH AND EVERY ONE OF YOUR EMPLOYEES.
6. OBTAIN PRIOR APPROVAL OF ALL PROPOSED CHANGES AND MODIFICATIONS TO ANY PRIVATE ON SITE FACILITIES, SUCH CHANGES MUST BE SUBMITTED TO AND APPROVED BY THE DISTRICT ENGINEERING OFFICE AND DESIGNED IN ACCORDANCE WITH DISTRICT STANDARDS.
7. ALL RECYCLED WATER SPRINKLER CONTROL VALVES SHALL BE TAGGED WITH IDENTIFICATION TAGS. TAGS SHALL BE WATERPROOF PLASTIC, 3"x4", PURPLE IN COLOR WITH THE WORDS, "WARNING RECYCLED WATER-DO NOT DRINK" IMPRINTED ON ONE SIDE, AND "AVISO-AGUA IMPURA-NO TOMAR" ON THE OTHER SIDE. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR, USE TAGS AS MANUFACTURED BY T. CHRISTY ENTERPRISES OR APPROVED EQUAL.

   ONE TAG SHALL BE ATTACHED TO EACH VALVE AS FOLLOWS:
   A. ATTACH TO VALVE STEM DIRECTLY OR WITH PLASTIC TIE-WRAP, OR
   B. ATTACH TO SOLENOID WIRE DIRECTLY OR WITH PLASTIC TIE-WRAP, OR
   C. ATTACH TO VALVE COVER WITH EXISTING VALVE COVER BOLT.
8. ALL SPRINKLER HEADS SHALL BE IDENTIFIED AS RECYCLED WATER SPRINKLER HEADS. EACH AUTOMATIC CONTROLLER AND IT'S ASSOCIATED EQUIPMENT SHALL BE IDENTIFIED WITH A SIGN BEARING THE WORDS, "RECYCLED WATER USED FOR IRRIGATION" IN ENGLISH AND SPANISH, WITH BLACK LETTERS 1" HIGH ON A PURPLE BACKGROUND, THE DESIGN SHALL BE PLACED SO THAT IT CAN BE READILY SEEN BY ANY OPERATIONS PERSONNEL UTILIZING EQUIPMENT.
9. FOR THE PURPOSE OF CROSS-CONNECTION TESTING, A WORKING ISOLATION VALVE TO BE LOCATED DIRECTLY EXTERIOR TO EACH BUILDING SUPPLIED WITH POTABLE WATER.

INSPECTION PROCEDURES

PRE-CONSTRUCTION:
DEH STAFF TO PERFORM A SITE INSPECTION PRIOR TO CONSTRUCTION TO DETERMINE IF FURTHER CORRECTIONS NEEDED.
CONTACT: GLENN LEEKS
PHONE:

CITY CONSTRUCTION INSPECTION SHALL INCLUDE:

A. LOCATION OF PIPE LINES
B. TRENCH DEPTH
C. REQUIRED SEPARATION (HORIZONTALLY AND VERTICALLY)
D. PIPE IDENTIFICATION (P.O.C.'s) POINTS OF CONNECTION
E. LOCATION AND IDENTIFICATION OF IRRIGATION EQUIP.
F. WARNING SIGNS AT THE SITE AND ON THE TRUCK HAULING RECYCLED WATER (IF RECYCLED WATER IS USED FOR CONSTRUCTION)

PROJECT OWNER AND ADDRESS:

APN #:

SHEET INDEX:

SHT TTL.	IRRIGATION SHEET NAME
2LI-001	RECYCLED WATER TITLE SHEET
2LI-002	LANDSCAPE IRRIGATION OVERALL PLAN
2LI-003	LANDSCAPE IRRIGATION LEGEND AND NOTES
2LI-100 - 2LI-106	LANDSCAPE IRRIGATION PLAN
2LI-500 - 2LI-502	LANDSCAPE IRRIGATION DETAILS

DECLARATION OF RESPONSIBLE CHARGE:
I HEREBY DECLARE THAT I AM THE LANDSCAPE ARCHITECT OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF THE PROJECT DRAWINGS AND SPECIFICATIONS BY THE REDWOOD CITY, REDWOOD CITY WATER DEPARTMENT, THE COUNTY OF DEPARTMENT OF ENVIRONMENTAL HEALTH IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS THE LANDSCAPE ARCHITECT OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

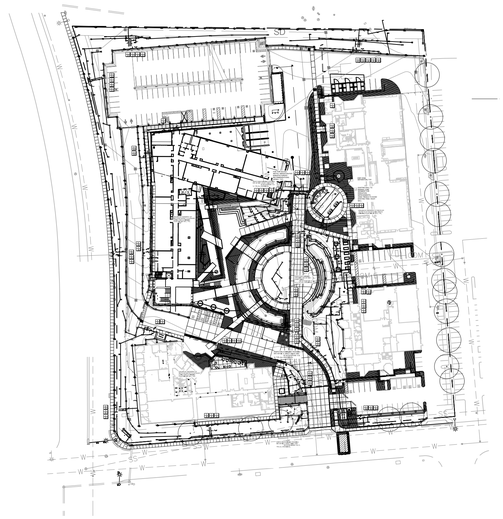
SIGNATURE _____ 11/21/2017 DATE

DISTRICT FINAL INSPECTIONS SHALL INCLUDE:

A. COVERAGE TEST, AFTER COMPLETION OF THE SPRINKLER SYSTEM, TO DETERMINE THAT ADEQUACY OF COVERAGE ON THE APPROVED USE AREA AND PROTECTION OF AREAS NOT APPROVED FOR RECEIVING RECYCLED WATER.
B. WARNING SIGNS AND LABELS
C. QUICK COUPLING VALVES
D. ALL ASPECTS OF THE IRRIGATION CONDITION INCLUDING WIND BLOWN SPRAY, RUN-OFF, AND PONDING.
E. REQUIRED PROTECTION OF ALL RESIDENTIAL AREAS
F. REQUIRED PROTECTION OF WELLS, STREAMS, RESERVOIRS, ETC.
G. CROSS- CONNECTION. FOR CROSS CONNECTION; BOTH THE COUNTY AND DISTRICT CROSS CONNECTION INSPECTOR TO REVIEW (SEE ALSO RECYCLED WATER NOTE #19).

ANNUAL INSPECTION SHALL INCLUDE:

1. A COMPLETE INSPECTION WHICH SHOULD COVER PART "A" AND PART "B".
2. PART "G" SHOULD BE COVERED AT THE DISTRICT'S FINAL INSPECTION.



LOCATION MAP
SCALE: NOT TO SCALE

State of CA Model Water Efficent Landscape Ordinance (MWELO)

***Project Name:* GENE THEORY**

2015 Executive Order EO B-29-15 MWELO (Updated ETWU) - PROJECT WATER USE ANALYSIS

Description	MAWA with Recycled Water	MAWA with Potable Water	ETWU	High Water Use	Moderate Water Use 1	Low Water Use 1	Low Water Use 2	Total Usage
Total Landscape Area (Square Feet)	257,268	257,268	Hydrozone Area S.F. (HA)	3,364	14,892	190,032	48,980	257,268 SqFt
Special Landscape Area (SLA) - Recycled Water	257,268		SLA Hydro Area	N/A	N/A	N/A	N/A	257,268 SqFt
Special Landscape Area (SLA) - Garden		201						201 SqFt
Irrigation Efficiency (IE)	NA	NA	Irrigation Efficiency (IE)	Irr. Type 0.75	Irr. Type 0.81	Irr. Type 0.81	Irr. Type 0.75	
Reference Evapotranspiration (Eto)	46.50	46.50	Ref ET (Eto)	46.50	46.50	46.50	46.50	
Plant Factor (PF) - H=.8/.7, M=.6/.5, L=.4/.3, VL=.2/.1	NA	NA	Plant Factor (PF)	1.0	0.5	0.3	0.3	
ET Adjustment Factor (ETAF) for non residential projects	0.45	0.45	ETAF (PF/IE)	1.33	0.62	0.37	0.40	
Conversation Factor (Inches to Gallons)	0.62	0.62	Conversation Factor	0.62	0.62	0.62	0.62	
Eto x .62 x [(ETAF x Land Area) + ((1-ETAF) x SLA)]	7,417,036.4	3,340,853.6	(ETAF x Area) Eto x .62 x (ETAF x Area)	4,485.33 129,312	9,192.59 265,022	70,382.22 2,029,119	19,592.00 564,837	103,652.1 SqFt 2,988,291.4 Gal/Yr
			ETo x 0.62 x (SLA Area)	0.00	0.00	0.00	0.00	0.0 Gal/Yr
Total Gallons Per Year	7,417,036.4	3,340,853.6	2,988,291.4					2,988,291.4 Gal/Yr
			Project Average ETAF	0.4	(Proj. Ave. ETAF < MAWA ETAF)			9.17 AFY

Anticipated evapotranspiration rates for the site are based on historical averages.
This data is collected from C.I.M.I.S.(California Irrigation Management Information System)

IE = All overhead spray = 0.75; Subsurface irrigation such as Bubblers and Drip = 0.81
Data from the C.I.M.I.S Station # 184 was used.

2.6

REDWOOD MUNICIPAL WATER DISTRICT
W.O. 635290
P.Z.
WILLIAM E. PLUMBER DATE
REVIEWED BY DATE

SAN MATEO COUNTY
DEPARTMENT OF
ENVIRONMENTAL HEALTH
APPROVED BY : DATE

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
SEE SHEET 2LI-500-2LI-503 FOR LANDSCAPE IRRIGATION DETAILS

2.6 WO#635290

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

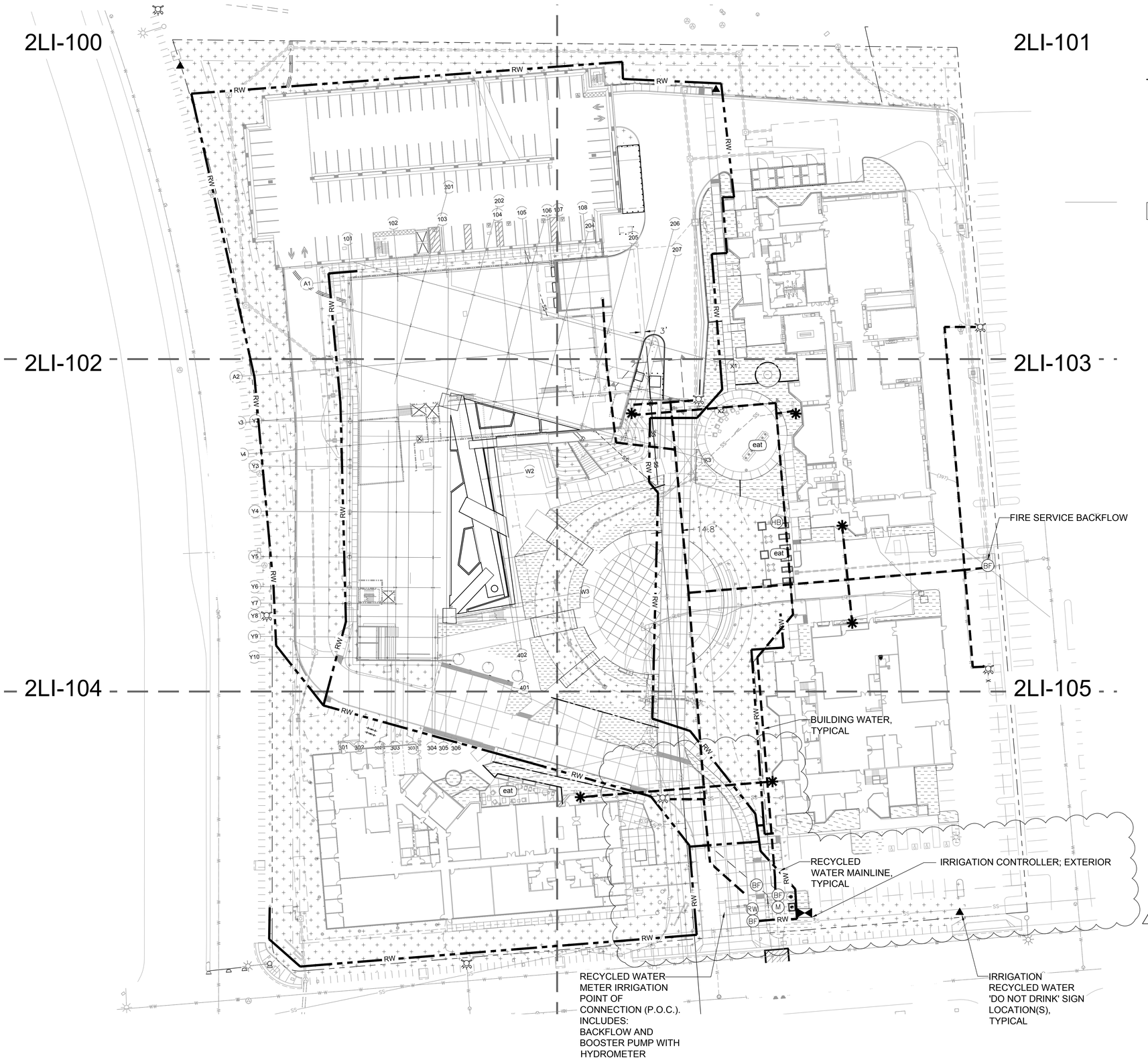
REV NO.	DATE ISSUED	REASON
	12.13.17	PLAN CHECK SUBMITTAL
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
RECYCLED WATER IRRIGATION TITLESHEET

Sheet No.
2LI-001

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002



IRRIGATION EQUIPMENT BY AREA

SYMBOL	DESCRIPTION
	SHRUB DRIPLINE 0.6 GPH @ 12" O.C. DRIPLINE WITH 0.60 GPH EMITTERS AT 12" O.C., ROW SPACING AT 12" O.C.
	SHRUB ROTATOR (HUNTER) 12` TO 30` RADIUS, TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.
	TURF ROTOR 15`-30` TRIANGULAR SPACED, HEAD TO HEAD COVERAGE. FULL AND PART CIRCLE HEADS.

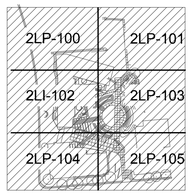
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION LEGEND & NOTES

RECYCLED SITE MAP LEGEND:

- RW — RECYCLED WATER METER LOCATION
- BF — POTABLE BACKFLOW
- ✱ — POTABLE FEEDS TO BUILDING / STRUCTURE P.O.C. EACH BUILDING SUPPLIED WITH POTABLE WATER REQUIRES AN ISOLATION (BALL) VALVE WHERE SUPPLY LINE CONNECTS TO BUILDING, TYP.
- ▲ — RECYCLED WATER 'DO NOT DRINK' SIGN LOCATION
- RW — RECYCLED WATER IRRIGATION MAINLINE
- POTABLE SERVICE LINES FOR BUILDING / FIRE
- eat — EATING AREA (TABLES / CHAIRS)
- FIRE HYDRANT LOCATION
- HB — HOSE BIB- POTABLE WATER FOR GARDEN BOXES
- CONTROLLER LOCATION; EXTERIOR ON PEDESTAL

NOTE:
A) ALL AREAS WITHIN THE LIMIT OF WORK THAT PROVIDES PICNIC FURNISHINGS OR ARE INTENDED PLACES TO EAT FOOD ARE NOTED ON THE SITE PLAN TO DEMONSTRATE AMPLE DISTANCE OR PROTECTION FROM SPRAY THROW OF RECYCLED WATER IRRIGATION.
B) NO WELLS WITHIN PROJECT

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE IRRIGATION OVERALL PLAN
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
SEE SHEET 2LI-500-2LI-501 FOR LANDSCAPE IRRIGATION DETAILS



0 15 30 60
SCALE : 1" = 30'-0"

NORTH

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE IRRIGATION OVERALL SITE PLAN

Sheet No.
2LI-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED ON ANY OTHER WORK EXCEPT BY AGREEMENT WITH THE ARCHITECT. THIS DRAWING SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

LANDSCAPE IRRIGATION NOTES

1. THE IRRIGATION SYSTEM IS DESIGNED FOR RECYCLED WATER (RW) WITH EXCEPTION OF THE BUILDING ROOF DECK WHICH WILL BE ON POTABLE WATER SUPPLY FROM THE BUILDING.
2. THE RECYCLED WATER DESIGN IS BASED ON THE AVAILABLE PRESSURE OF 53 PSI AT THE SOURCE LOCATED ATVETERANS BLVD & DPR WAY. THE CONTRACTOR IS TO VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION AND REPORT ANY DIFFERENCES TO THE OWNER'S REPRESENTATIVE. A BOOSTER PUMP IS PROPOSED AND SET FOR BOOST OF 50 PSI.
3. THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY FOR CLARITY. LOCATE ALL PIPING, VALVES, BACKFLOW PREVENTERS, AND OTHER IRRIGATION EQUIPMENT WITHIN PLANTING AREAS UNLESS NOTED OR DIRECTED OTHERWISE. LOCATE ALL VALVES AND VALVE BOXES SIX INCHES FROM EDGE OF PAVING OR CURB.
4. EXISTING UTILITIES AND FIELD CONDITIONS: PRIOR TO EXCAVATION, LOCATE ALL CABLES, CONDUITS, AND UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR AN UNDERGROUND UTILITY SERVICE TO LOCATE AND MARK UTILITIES. CONTRACTOR WILL TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB SUCH UNDERGROUND IMPROVEMENTS. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IF A CONFLICT EXISTS BETWEEN SUCH OBSTACLES AND THE PROPOSED WORK. PROCEED IN SAME MANNER IF ROCK LAYERS OR ANY OTHER CONDITIONS ENCOUNTERED UNDERGROUND MAKE CHANGES ADVISABLE.
5. ALL PIPING AND WIRING UNDER ROADWAYS AND PAVING AND THROUGH WALLS SHALL BE SLEEVED.
6. USE TWO WRAPS OF THREE-QUARTER INCH (3/4") TEFLON TAPE FOR ALL THREADED VALVE CONNECTIONS.
7. PROVIDE PULL BOXES FOR CONTROL WIRING LOCATED UNDER PAVING ALL CHANGES IN DIRECTION GREATER THAN FORTY-FIVE (45) DEGREES AND WHERE WIRE RUNS EXCEED TWO HUNDRED FEET (200') IN LENGTH. WIRE SPLICES SHALL BE MADE IN PULL BOXES OR CONTROL VALVE BOXES ONLY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTION OF FIELD WIRES TO APPROPRIATE TERMINAL STRIPS. (CONNECT FLOW SENSOR AND MASTER VALVE WIRES TO CONTROLLER PER CITY STANDARDS).
9. ADJUST ALL SPRINKLERS TO AVOID OVER SPRAY ONTO WALLS, WALKS, STREETS, UTILITY BOXES, BUILDINGS AND OTHER IMPROVEMENTS.
10. WHERE TRENCHING NEAR TREE ROOTS, TAKE EXTREME CAUTION. NOTIFY OWNER'S ARBORIST PRIOR TO WHEN TRENCHING IN AREAS WITH TREE ROOTS. ALL TRENCHING WITHIN TREE CANOPY MUST BE DONE BY HAND. CONTRACTOR SHALL AIR SPADE OR WATER JET AROUND AND/OR UNDER ALL TREE ROOTS 2" AND LARGER.
11. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO THE FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNED ON THE PLANS.
12. CONTRACTOR SHALL INSTALL IN-LINE ANTI-DRAIN VALVES AS WARRANTED BY SITE CONDITIONS TO ALLEVIATE LOW HEAD DRAINAGE.
13. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN AREA DIMENSIONS ARE FOUND. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS NECESSARY.
14. THE CONTRACTOR SHALL KEEP AN UP-TO-DATE COMPLETE "AS-BUILT" RECORD SET OF PRINTS WHICH SHALL BE UPDATED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DESIGN. ALL WORK SHALL BE NEAT AND LEGIBLE.
15. INSTALL IRRIGATION HEADS IN TURF AREAS 6" FROM WALKS AND HARDSCAPE AREAS PER CITY STANDARDS.
16. LATERAL LINE END RUNS SHALL BE 3/4" UNLESS OTHERWISE NOTED.
17. ALL CONTROL VALVES SHALL BE MANIFOLD AND GROUPED IN GENERAL AREAS SHOWN ON PLAN. VALVES SHALL BE LOCATED IN PLANTING AREAS AND IMMEDIATELY ADJACENT TO WALKS, CURBS, OR PAVING AREAS AND SET AT RIGHT ANGLES TO EDGES. INSTALL VALVES BOXES 6" FROM EDGES OF HARDSCAPE AREAS.
18. IRRIGATION LINES SHALL BE INSTALLED IN PLANTING AREAS WHERE EVER FEASIBLE AND WITHIN 12" OF PLANTING AREA EDGES UNLESS SHOWN OTHERWISE.
19. THE CONTRACTOR SHALL INSTALL ALL IRRIGATION EQUIPMENT, VALVE BOXES, LATERALS, HEADS, WIRES, ETC. AWAY FROM MATURE TREE ROOT SYSTEMS IN ALL LOCATIONS TO PREVENT CONFLICTS WITH TREES.
20. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S ARBORIST FOR PLANT MATERIALS TO BE PRUNED BY THE CONTRACTOR PRIOR TO COMMENCING WITH TRENCHING OPERATIONS WHERE REQUIRED. SEE PLANTING PLAN FOR TREE PROTECTION NOTES.
21. CONTRACTOR SHALL REMOVE AND DISCARD DAILY ALL PIPING DISTURBED DURING TRENCHING OPERATION.
22. CONTRACTOR SHALL REVIEW IRRIGATION SPECIFICATIONS PRIOR TO BEGINNING WORK. REFER TO TECHNICAL SPECIFICATIONS AND CONSTRUCTION DETAILS FOR INSTALLATION PROCEDURES.
23. PROVIDE PULL BOXES FOR FLOW SENSING AND MASTER VALVE CABLE AT ALL CHANGES GREATER THAN FORTY-FIVE (45) DEGREES AND WHERE CABLE RUNS EXCEED TWO HUNDRED FEET (200') IN LENGTH. INSTALL SEPARATE FLOW SENSING CABLE AND MASTER VALVE CABLE IN THE SAME ONE AND A QUARTER INCH (1-1/4") CONDUIT. NO SPLICES WILL BE ALLOWED IN FLOW SENSOR AND MASTER VALVE CABLE.
24. CONTRACTOR SHALL HEAT BRAND ALL PLASTIC VALVES BOXES WITH THE FOLLOWING LABELS. ALL LETTERS SHALL BE ONE INCH (1") HIGH. LETTERING ON VALVE BOX LIDS SHALL BE PLACED ON THE SAME LOCATION ON EACH VALVE BOX LID, AND ALL LABELING SHALL FACE THE SAME DIRECTION. CONTROL VALVE BOXES SHALL BE LABELED CONSECUTIVELY A,B,C,etc.
    - QUICK COUPLER VALVE BOXES SHALL BE LABELED "QC"
    - ISOLATION BALL VALVE BOX LID WITH THE LETTERS "BV"
    - STUB OUT BOXES SHALL BE LABELED "SO"
    - EXTRA CONTROL WIRE BOXES SHALL BE LABELED "SW"
    - WIRE SPLICE BOX LID WITH THE LETTERS "WS"
    - COMMUNICATION CABLE SPLICE BOX LID WITH THE LETTERS "COM"
    - GROUNDING ROD VALVE BOX LID WITH THE LETTERS "GR"
    - CHECK VALVE BOX LID WITH LETTERS "CV"
    - FLOW SENSOR BOX LID WITH THE LETTERS "FS"
    - FLOW SENSING CABLE BOXES SHALL BE LABELED "FS"
    - MASTER VALVE BOX LID WITH "MV AND CONTROLLER LETTER"
25. ALL BOLTS FOR LOCKING VALVE BOX LIDS SHALL BE STAINLESS STEEL.
26. CONTRACTOR WILL BE RESPONSIBLE FOR ANY CITY BUILDING PERMITS OR ENCROACHMENT EASEMENT PERMITS NECESSARY FOR WORK.
27. CONTRACTOR SHALL REMOVE ALL EXISTING IRRIGATION HEADS AND AUTOMATIC OR MANUAL VALVES PRIOR TO, DURING, OR AFTER INSTALLATION OF NEW WORK SHOWN ON THESE PLANS.
28. CONTRACTOR WILL PROVIDE TEMPORARY IRRIGATION SYSTEM, OR HAND-WATER EXISTING LANDSCAPE AREAS DURING THE CONSTRUCTION PERIOD.
29. CONTRACTOR SHALL BACKFILL AND COMPACT TRENCHES. GRADE TRENCH LINES TO MATCH GRADE WITH SURROUNDING PLANTING AREAS. CONTRACTOR SHALL HAVE TRENCH LINES GRADED IN A CONDITION READY FOR SEEDING OR SODDING.
30. IN THE EVENT THAT PRODUCTS CONTAINING ASBESTOS ARE ENCOUNTERED. CONTRACTOR TO NOTIFY OWNER AND IS RESPONSIBLE FOR THE APPROPRIATE HANDLING, CONTAINMENT AND DISPOSAL OF ASBESTOS BASED PRODUCTS. GUIDELINES ARE NOT INCLUDED WITHIN THIS SET OF PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THIS INFORMATION, EDUCATE ALL STAFF MEMBERS AND SUB-CONTRACTORS AND CONDUCT WORK IN ACCORDANCE WITH PERFORMANCE CRITERIA SET FORTH BY LOCAL, STATE AND FEDERAL AUTHORITIES.
31. PROVIDE ALL HEADS ON RECYCLED WATER SYSTEM WITH PURPLE RECYCLED WATER CAP.
32. CONTRACTOR TO PROVIDE CONSTRUCTION METER OFF NEAREST FIRE HYDRANT FOR IRRIGATION SYSTEM PRIOR TO CROSS CONNECTION TEST AND APPROVAL BY DEH.

AVAILABLE STATIC RECYCLED WATER PRESSURE AT THE SOURCE IS : 53 PSI.
WATER COMPANY: REDWOOD CITY.
PHONE NUMBER: (619) 527-7482.

CRITICAL ANALYSIS

Generated:	2017-10-26 12:04
P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Water Meter Size:	2"
Flow Available:	77.18 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	53.00 psi
Elevation Change:	5.00 ft
Service Line Size:	2"
Length of Service Line:	20.00 ft
Booster Pump pressure provided:	50.00 psi
Pressure Available:	100.00 psi
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	50.00 gpm
Flow Available at POC:	77.18 gpm
Residual Flow Available:	27.18 gpm
Critical Station:	10
Design Pressure:	30.00 psi
Friction Loss:	0.85 psi
Fittings Loss:	0.09 psi
Elevation Loss:	0.00 psi
Loss through Valve:	21.38 psi
Pressure Req. at Critical Station:	52.32 psi
Loss for Fittings:	2.39 psi
Loss for Main Line:	23.91 psi
Loss for POC to Valve Elevation:	-1.73 psi
Loss for Backflow:	12.15 psi
Loss for Water Meter:	1.90 psi
Critical Station Pressure at POC:	90.94 psi
Pressure Available:	100.00 psi
Residual Pressure Available:	9.06 psi

CRITICAL ANALYSIS

Generated:	2017-10-03 13:46
P.O.C. NUMBER: 02	
Water Source Information:	
FLOW AVAILABLE	
Point of Connection Size:	1" min.
Flow Available:	20.24 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	80.00 psi
Pressure Available:	80.00 psi
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	25.00 gpm
Flow Available at POC:	25.00 gpm
Residual Flow Available:	0.00 gpm
Critical Station:	R2
Design Pressure:	30.00 psi
Friction Loss:	0.88 psi
Fittings Loss:	0.09 psi
Elevation Loss:	0.00 psi
Loss through Valve:	24.51 psi
Pressure Req. at Critical Station:	55.47 psi
Loss for Fittings:	0.02 psi
Loss for Main Line:	0.19 psi
Loss for POC to Valve Elevation:	6.50 psi
Loss for Backflow:	0.00 psi
Critical Station Pressure at POC:	62.18 psi
Pressure Available:	80.00 psi
Residual Pressure Available:	17.82 psi

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	18.88		50.78	85.14	0.22 in/h
2	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	8.88		45.94	80.28	0.19 in/h
3	HUNTER ICV-G-FS-R	1"	BUBBLER	8.00		38.05	72.33	2.57 in/h
4	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	15.52		49.06	83.32	0.21 in/h
5	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	17.91		47.69	89.73	0.22 in/h
6	HUNTER ICV-G-FS-R	1"	BUBBLER	6.00		35.58	77.60	2.64 in/h
7	HUNTER ICV-G-FS-R	1"	BUBBLER	13.00		35.41	77.39	2.64 in/h
8	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	16.07		48.23	90.19	0.20 in/h
9	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	13.32		46.88	88.78	0.19 in/h
10	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	13.99		52.32	93.44	0.90 in/h
11	HUNTER ICV-G-FS-R	1"	BUBBLER	9.00		35.36	61.13	2.70 in/h
12	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	4.82		40.78	66.56	0.90 in/h
13	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	8.27		43.35	69.14	0.90 in/h
14	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	9.67		44.98	69.68	0.90 in/h
15	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	8.02		46.84	71.55	0.90 in/h
16	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	7.59		44.56	69.28	0.90 in/h
17	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	4.66		43.50	68.09	0.26 in/h
18	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	5.68		44.52	69.11	0.26 in/h
19	HUNTER ICV-G-FS-R	1"	BUBBLER	3.00		32.94	57.52	2.64 in/h
20	HUNTER ICV-G-FS-R	1"	SHRUB SPRAY	7.43		46.63	71.19	2.22 in/h
21	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	5.47		42.15	66.84	0.90 in/h
22	HUNTER ICV-G-FS-R	1"	BUBBLER	5.00		34.28	58.96	2.66 in/h
23	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	7.95		45.23	69.90	0.90 in/h
24	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	6.03		45.10	69.36	0.24 in/h
25	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	5.09		47.17	71.42	0.20 in/h
26	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	13.55		49.08	73.32	0.33 in/h
27	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	14.77		56.56	80.48	0.90 in/h
28	HUNTER ICV-G-FS-R	1"	BUBBLER	5.00		34.48	58.42	33.93 in/h
29	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	8.95		46.60	70.54	0.90 in/h
30	HUNTER ICV-G-FS-R	1"	TURF ROTARY	8.24		46.04	67.73	0.26 in/h
31	HUNTER ICV-G-FS-R	1"	TURF ROTARY	6.96		44.95	66.63	0.24 in/h
32	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	13.11		51.57	72.63	0.90 in/h
33	HUNTER ICV-G-FS-R	1"	BUBBLER	10.00		38.59	59.68	34.04 in/h
34	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	7.66		50.32	71.44	0.22 in/h
35	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	8.70		50.47	71.62	0.23 in/h
36	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	15.82		60.46	81.63	0.90 in/h
37	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	10.10		44.15	63.65	0.21 in/h
38	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	7.34		47.33	66.82	0.90 in/h
39	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	17.75		64.11	82.26	0.90 in/h
40	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	18.48		46.95	68.05	0.24 in/h
41	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	13.24		47.04	68.11	0.26 in/h
42	HUNTER ICV-G-FS-R	1"	BUBBLER	17.00		38.89	59.94	2.89 in/h
43	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	8.53		48.63	69.95	0.90 in/h
44	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	8.00		46.15	67.47	0.90 in/h
45	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	4.81		43.28	59.28	0.20 in/h
46	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	5.18		43.75	59.75	0.21 in/h
47	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	2.00		40.15	56.16	0.90 in/h
49	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	3.10		44.11	63.19	0.38 in/h
50	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	6.40		47.18	66.28	0.47 in/h
51	HUNTER ICV-G-FS-R	1"	BUBBLER	4.00		33.86	55.87	2.71 in/h
51	HUNTER ICV-G-FS-R	1"	BUBBLER	12.00		38.22	57.34	2.60 in/h
52	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	7.76		42.91	64.96	0.90 in/h
53	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	8.57		43.69	65.75	0.90 in/h
54	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	6.92		42.96	65.03	0.90 in/h
55	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	11.58		44.80	69.15	0.34 in/h
56	HUNTER ICV-G-FS-R	1"	BUBBLER	7.00		35.51	59.86	2.64 in/h
57	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	13.07		46.27	75.52	1.05 in/h
58	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	5.28		43.15	72.13	1.05 in/h
59	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	8.91		43.99	72.98	0.71 in/h
60	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	9.90		48.10	73.44	0.27 in/h
61	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	8.88		46.95	72.30	0.25 in/h
62	HUNTER ICV-G-FS-R	1"	BUBBLER	10.00		54.35	65.10	2.85 in/h
63	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	16.68		67.10	77.84	0.19 in/h
64	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	16.61		67.29	77.98	0.21 in/h
65	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	11.57		46.66	62.78	0.21 in/h
66	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	8.38		61.23	77.39	0.22 in/h
67	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	7.42		62.46	78.65	1.16 in/h
68	HUNTER ICV-G-FS-R	1"	BUBBLER	9.00		46.50	62.69	2.64 in/h
69	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	12.34		49.48	74.98	0.19 in/h
70	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	11.15		45.87	71.36	0.20 in/h
71	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	13.55		46.52	71.97	0.25 in/h
72	HUNTER ICV-G-FS-R	1"	BUBBLER	6.00		36.47	59.87	2.64 in/h
73	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	17.10		50.44	73.85	0.22 in/h
74	HUNTER ICV-G-FS-R	1"	SHRUB ROTARY	17.86		47.98	71.35	0.24 in/h
R1	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	12.95		54.94	61.60	0.90 in/h
R2	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	15.58		55.48	62.18	0.90 in/h
R3	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	6.42		47.36	54.11	0.90 in/h
R4	HUNTER ICV-G-FS-R	1"	BUBBLER	3.25		34.73	41.58	2.10 in/h
	Common Wire				3,605			

IRRIGATION HEADS & BUBBLERS

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
2Q 2H 4Q 4H 6Q 6H	HUNTER PROS-06-PRS40-CV-R SHORT RADIUS NOZZLES SHRUB SPRAY, 40PSI REGULATED 6" POP-UP, DRAIN CHECK VALVE, FACTORY-INSTALLED RECLAIMED BODY CAP	40	10 /2LI-500
ES LCS RCS CS SS	HUNTER PROS-06-PRS40-CV-R 5` STRIP SPRAY SHRUB SPRAY, 40PSI REGULATED 6" POP-UP, DRAIN CHECK VALVE, FACTORY-INSTALLED RECLAIMED BODY CAP	40	
Q H F	HUNTER PROS-06-PRS40-CV-R 5` RADIUS SHRUB SPRAY, 40PSI REGULATED 6" POP-UP, DRAIN CHECK VALVE, FACTORY-INSTALLED RECLAIMED BODY CAP	40	
M MO	HUNTER MP1000 PROS-04-PRS40-CV-R TURF ROTATOR, 4" (10.16 CM) POP-UP WITH CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	40	
MQ MH MF	HUNTER MP2000 PROS-04-PRS40-CV-R TURF ROTATOR, 4" (10.16 CM) POP-UP WITH CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	40	
LST RST SST	HUNTER MP STRIP PROS-04-PRS40-CV-R TURF ROTATOR, 4" (10.16 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP.	40	
M H F	HUNTER MP1000 PROS-12-PRS40-CV-R SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH CHECK VALVE, PURPLE CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC ON PRS40 BODY.	40	
MQ MH MF	HUNTER MP2000 PROS-12-PRS40-CV-R SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC ON PRS40 BODY.	40	
MQ MH MF	HUNTER MP3000 PROS-12-PRS40-CV-R SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC ON PRS40 BODY.	40	
O	HUNTER MP800SR PROS-12-PRS40-CV-R SHRUB ROTATOR, 12.0" POP-UP WITH CHECK VALVE, RECLAIMED PURPLE BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. OR = ORANGE ADJ ARC 90 TO 210.	40	
T	HUNTER MP CORNER PROS-12-PRS40-CV-R SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH CHECK VALVE, PURPLE CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45-105 ON PRS40 BODY.	40	
LST RST SST	HUNTER MP STRIP PROS-12-PRS40-CV-R SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP ON PRS40 BODY.	40	
0.25	HUNTER RZWS-SLEEVE-10-CV-INSTALL ON ROOF GARDEN 10" LONG RZWS WITH SLEEVE, 0.25 GPM BUBBLER, AND 1/2" SWING JOINT FOR CONNECTION TO 1/2" PIPE, CHECK VALVE	30	8 /2LI-500
50H	HUNTER PROS-04-CV-R-MSBN MULTI-STREAM BUBBLER, 4" POP-UP, FACTORY INSTALLED DRAIN CHECK VALVE, RECLAIMED BODY CAP,10=1.0GPM,	30	10 /2LI-500
1.0	HUNTER RZWS-SLEEVE-36-CV-R 36" LONG RZWS WITH FILTER FABRIC SLEEVE, .25GPM OR .50GPM BUBBLER OPTIONS, CHECK VALVE WITH RECLAIMED CAP, 1/2" SWING JOINT FOR CONNECTION TO 1/2" PIPE	30	8 /2LI-500

DRIP IRRIGATON

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	HUNTER ICZ-101-25 DRIP CONTROL ZONE KIT. 1" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 25PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.	5 /2LI-500
F	NETAFIM TL050MFV-1 AUTOMATIC FLUSH VALVE, 1/2" MALE PIPE THREAD,PLACE ON THE LOWEST POINT(S) ON DRIP ZONE	2 /2LI-501
A	NETAFIM TLAVRV AIR/VACUUM RELIEF VALVE, 1/2" MALE PIPE THREAD, PLACE ON HIGHEST POINT ON THE DRIP ZONE	6 /2LI-501
I	TORO T-DL-MP9 DL2000 POP-UP OPERATION INDICATOR	
	AREA TO RECEIVE DRIPLINE TORO RGP-212-E (12) @ 30 PSI SUB-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH ROOTGUARD TECHNOLOGY. 0.53GPH EMITTERS AT 12.0" O.C. DRIPLINE LATERALS SPACED AT 12.0" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. USE PURPLE TUBING FOR EFFLUENT OPTION. (USE STANDARD FOR USE ON GREEN ROOF / POTABLE)	1 /2LI-501

IRRIGATION EQUIPMENT

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	
	HUNTER ICV-G-FS-R 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH FILTER SENTRY FACTORY INSTALLED OPTION PROVIDE RECLAIMED WATER ID & PURPLE HANDLE FOR SITE VALVES	3 /2LI-500 4 /2LI-500 1 /2LI-502
	NELSON 7645 1" BRASS QUICK COUPLER VALVE WITH ACME THREADS FOR SLOW FLOW CONTROL, WITH LOCKING RUBBER COVER AND PURPLE CAP WITH RECLAIMED WATER WARNING. RW ONLY.	6 /2LI-500
HB	BUCKNER-SUPERIOR B400 HOSE BIB BENT NOSE GARDEN VALVE. 3/4" X 1/2" FEMALE NPT HOSE BIB, RED BRASS. POTABLE ONLY.	
	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3". PURPLE HANDLE; RW ONLY	9 /2LI-500
	NIBCO T-234Y GLOBE SHUT OFF VALVE NIBCO OR APPROVED EQUAL. CLASS 150 BRONZE WITH PURPLE HANDLE FOR RECYCLED WATER IRRIGATION SYSTEM. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. LINE SIZE; RANGE- 1"-2 1/2".	9 /2LI-500
	MATCO-NORCA 521T 1/2"-4" BRASS SWING CHECK VALVE, IPS. WITH BRASS SEAT. SAME SIZE AS MAINLINE PIPE.	3 & 4 /2LI-501
	WILKENS 600XL HIGH PRESSURE PRESSURE REGULATOR; LINE SIZED.	3 & 4 /2LI-501
BF	FEBCO 825YA 2" REDUCED PRESSURE BACKFLOW PREVENTER	1 /2LI-500 5 /2LI-501
7588	FEBCO 825YA 3/4" REDUCED PRESSURE BACKFLOW PREVENTER	1 /2LI-500 5 /2LI-501
C	HUNTER ACC-99D-PED-SS 2-WIRE DECODER CONTROLLER WITH 99 STATION CAPACITY, METAL CABINET, STAINLESS STEEL PEDESTAL	10 /2LI-500
R	HUNTER XCH-1000 ROOF GARDEN ELECTROMECHANICAL CONTROLLER, 10 STATIONS, INDOOR MOUNT. PROVIDE 24VAC PLUG

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MAINLINE, TYP

ADJUST IRRIGATION AROUND UTILITIES AS NEEDED, TYPICAL

1	2	3	4
1" 18.9	1" 8.88	1" 8.00	1" 15.5

68	67	66	65
1" 9.00	1" 7.42	1" 8.38	1" 11.6

57
1" 13.1

58	59
1" 5.28	1" 8.91

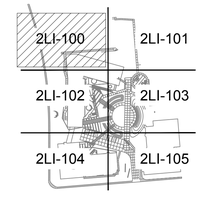
LOCATE HEADS 24" FROM BACK OF SIDEWALK AT RIGHT OF WAY, TYPICAL.

INSTALL MAINLINE IN THE PLANTING AREA; SHOWN ON WALK FOR CLARITY ONLY

MATCHLINE: SEE SHEET 2LI-102

MATCHLINE: SEE SHEET 2LI-101

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
SEE SHEET 2LI-500-2LI-502 FOR LANDSCAPE IRRIGATION DETAILS



GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE IRRIGATION PLAN

Sheet No.
2LI-100

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

LATERAL TO CROSS OVER EXISTING CONCRETE DITCH. TRANSITION TO CAST IRON OR BROWN PVC PIPE. WRAP PIPE IN RECYCLED WATER IDENTIFICATION TAPE @ 4' O.C.

PROPERTY LINE

PROPERTY LINE

MAINLINE, TYP. SLEEVED IN HARDSCAPE

5	6	7*	8	9
1" 17.9	1" 6.00	1" 13.0	1" 16.1	1" 13.3

*VALVE 7; ADDITIVE ALTERATIVE TREES PER PLANTING PLAN

ADJUST IRRIGATION AROUND UTILITIES AS NEEDED, TYPICAL

MAINLINE, TYP. SLEEVED IN HARDSCAPE

BUBBLER IS TIED TO VALVE 11

MATCHLINE: SEE SHEET 2LI-100

10
1" 14.0

11
1" 9.00

12
1" 4.82

13
1" 8.27

204

205

206

DRIP ZONE SEPARATION, TYP.

MATCHLINE: SEE SHEET 2LI-103

2.2

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
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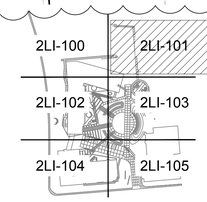

0 5 10 20

SCALE : 1" = 10'-0"

NORTH

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LANDSCAPE IRRIGATION PLAN

Sheet No.
2LI-101

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

MATCHLINE: SEE SHEET 2LI-100

MAINLINE, TYP

ADJUST IRRIGATION HEADS AROUND UTILITIES AS NEEDED, TYPICAL

LOCATE HEADS 24" FROM BACK OF SIDEWALK AT RIGHT OF WAY, TYPICAL.

SLEEVE, TYP.

MATCHLINE: SEE SHEET 2LI-104

60	
1"	9.90
61	
1"	8.88
64	
1"	16.6
63	
1"	16.7
62	
1"	10.0

APPROXIMATE POC LOCATION FOR ROOF DECK, TO BE INSTALLED ON MEZZANINE LEVEL. SEE DETAIL 1/LI-502 FOR MORE INFORMATION. COORDINATE WITH PLUMBING AND MECHANICAL AS REQUIRED TO PLUMB LINES TO ROOF DECK.

2.6 ENSURE NO OVERSPRAY OF RECYCLED WATER TO OUTDOOR EATING ARES & DRINKING FOUNTAINS (IF ANY), TYP.

SEE SHEET 2LI-106 FOR GREEN ROOF

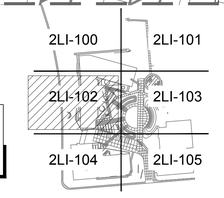
SLEEVE UNDER HARDSCAPE, TYP. CONTRACTOR TO SLEEVE TO AVOID BRIDGE FOOTINGS, TYPICAL

MAINLINE, TYP

DN

MATCHLINE: SEE SHEET 2LI-103

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
SEE SHEET 2LI-500-2LI-503 FOR LANDSCAPE IRRIGATION DETAILS



2.6 WO#539269

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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REV NO.	DATE ISSUED	REASON
	12.13.17	PLAN CHECK SUBMITTAL
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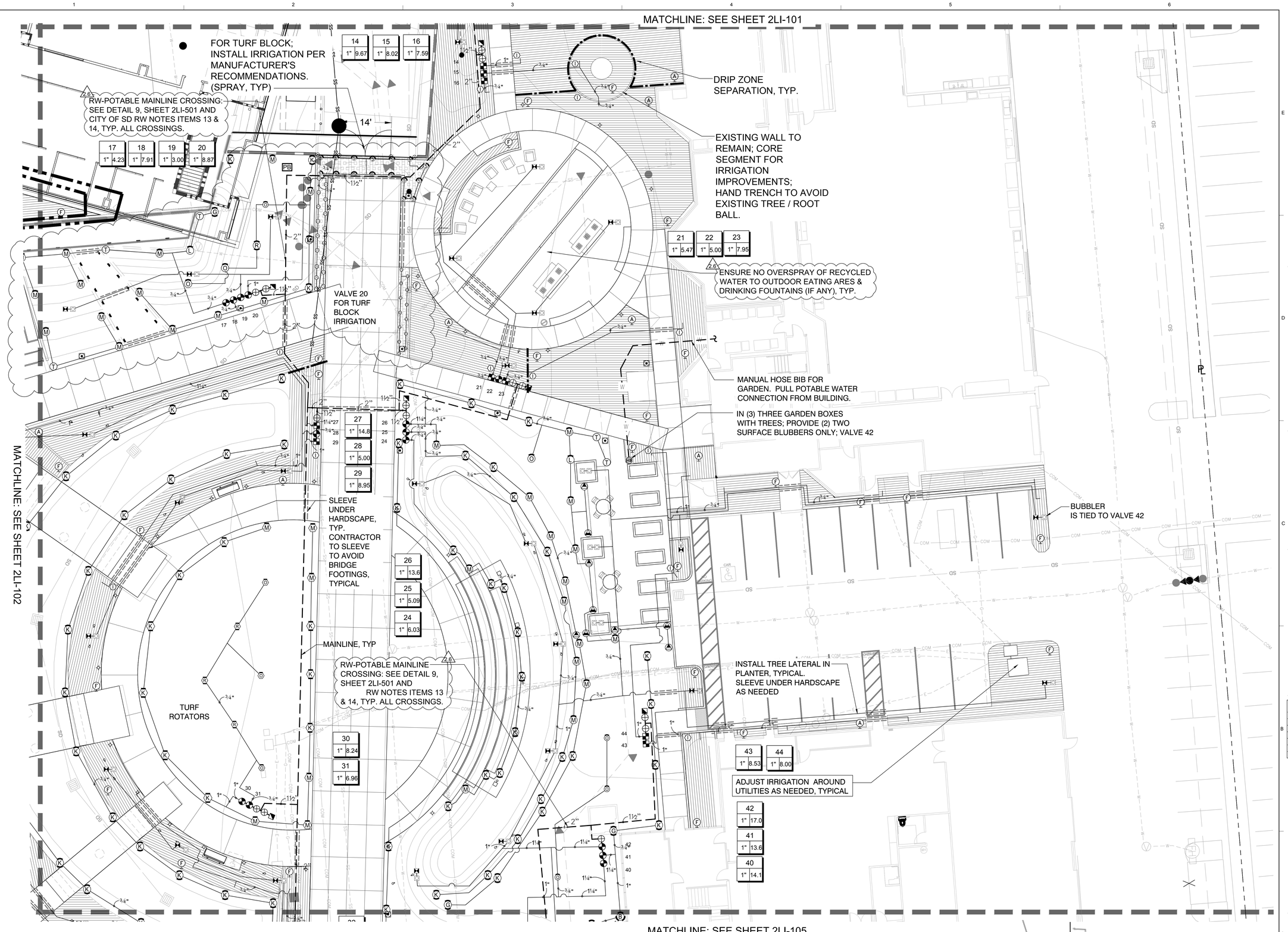
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

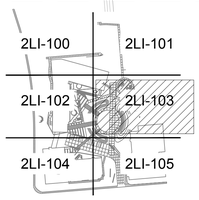
Sheet Title
LANDSCAPE IRRIGATION PLAN

Sheet No.
2LI-102

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002



SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
SEE SHEET 2LI-500-2LI-503 FOR LANDSCAPE IRRIGATION DETAILS



2.6 WO#539269

GENE THEORY - CP-2

1450 VETERANS BLVD
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2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
LANDSCAPE IRRIGATION PLAN

Sheet No.
2LI-103

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

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MATCHLINE: SEE SHEET 2LI-102

MATCHLINE: SEE SHEET 2LI-105

56	55
1" 7.00	1" 11.6

54	53	52	51
1" 6.92	1" 8.57	1" 7.76	1" 4.00

69
1" 12.3

70
1" 11.2

71
1" 13.6

72	73	74
1" 6.00	1" 17.1	1" 17.9

LOCATE HEADS 24" FROM BACK OF SIDEWALK AT RIGHT OF WAY, TYPICAL.

MAINLINE, TYP

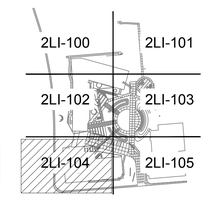
2.6 ENSURE NO OVERSPRAY OF RECYCLED WATER TO OUTDOOR EATING ARES & DRINKING FOUNTAINS (IF ANY), TYP.

DRIP ZONE SEPARATION, TYP.

ADJUST IRRIGATION AROUND UTILITIES A

LOCATE HEADS 24" FROM BACK OF SIDEWALK AT RIGHT OF WAY, TYPICAL.

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
SEE SHEET 2LI-500-2LI-503 FOR LANDSCAPE IRRIGATION DETAILS



2.6 WO#539269

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

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2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
LANDSCAPE IRRIGATION PLAN

Sheet No.
2LI-104

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

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MATCHLINE: SEE SHEET 2LI-103

MATCHLINE: SEE SHEET 2LI-104

32	1" 13.1
33	1" 10.0
34	1" 7.66
35	1" 8.70
36	1" 15.8
37	1" 10.1
38	1" 7.34
51	1" 11.0
50	1" 6.40
49	1" 3.10
45	1" 4.81
46	1" 5.18
47	1" 2.00

VALVE 34 & 35 FOR BIO-RETENTION IRRIGATION

MAINLINE, TYP

RW-POTABLE MAINLINE CROSSING: SEE DETAIL 9, SHEET 2LI-501 AND RW NOTES ITEMS 13 & 14, TYP. ALL CROSSINGS.

BUBBLER IS TIED TO VALVE 42

BUBBLER IS TIED TO VALVE 50

QUICK COUPLER

PROVIDE TEMPORARY POTABLE WATER IRRIGATION POC AND BACKFLOW FROM HYDRANT TO IRRIGATION SYSTEM DURING CONSTRUCTION

FOR TURF BLOCK; INSTALL IRRIGATION PER MANUFACTURER'S RECOMMENDATIONS. (SPRAY, TYP)

VALVE 49 FOR TURF BLOCK IRRIGATION

SLEEVE BELOW POTABLE WATER LINES

2" MAINLINE, TYP

RECYCLED WATER POINT OF CONNECTION. STATIC PRESSURE AT SOURCE 53 psi.
PROVIDE 2" SERVICE LINE AND BOOSTER PUMP PER LEGEND.
ADJUST IRRIGATION AROUND UTILITIES AS NEEDED, TYPICAL

CONTROLLER & SENSOR; VERIFY LOCATION PRIOR TO INSTALLATION.
PULL 110V POWER FROM BLDG.

BUBBLER IS TIED TO VALVE 50

LOCATE HEADS 24" FROM BACK OF SIDEWALK AT RIGHT OF WAY, TYPICAL.

SLEEVE BELOW POTABLE WATER LINES

LOCATE HEADS 24" FROM BACK OF SIDEWALK AT RIGHT OF WAY, TYPICAL.

2.6 RW-POTABLE MAINLINE CROSSING: SEE DETAIL 9, SHEET 2LI-501 AND RW NOTES ITEMS 13 & 14, TYP. ALL CROSSINGS.

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE OVERALL PLAN
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SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
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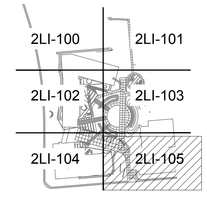

2.6 WO#539269

GENE THEORY - CP-2

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2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
LANDSCAPE IRRIGATION PLAN

Sheet No.
2LI-105

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

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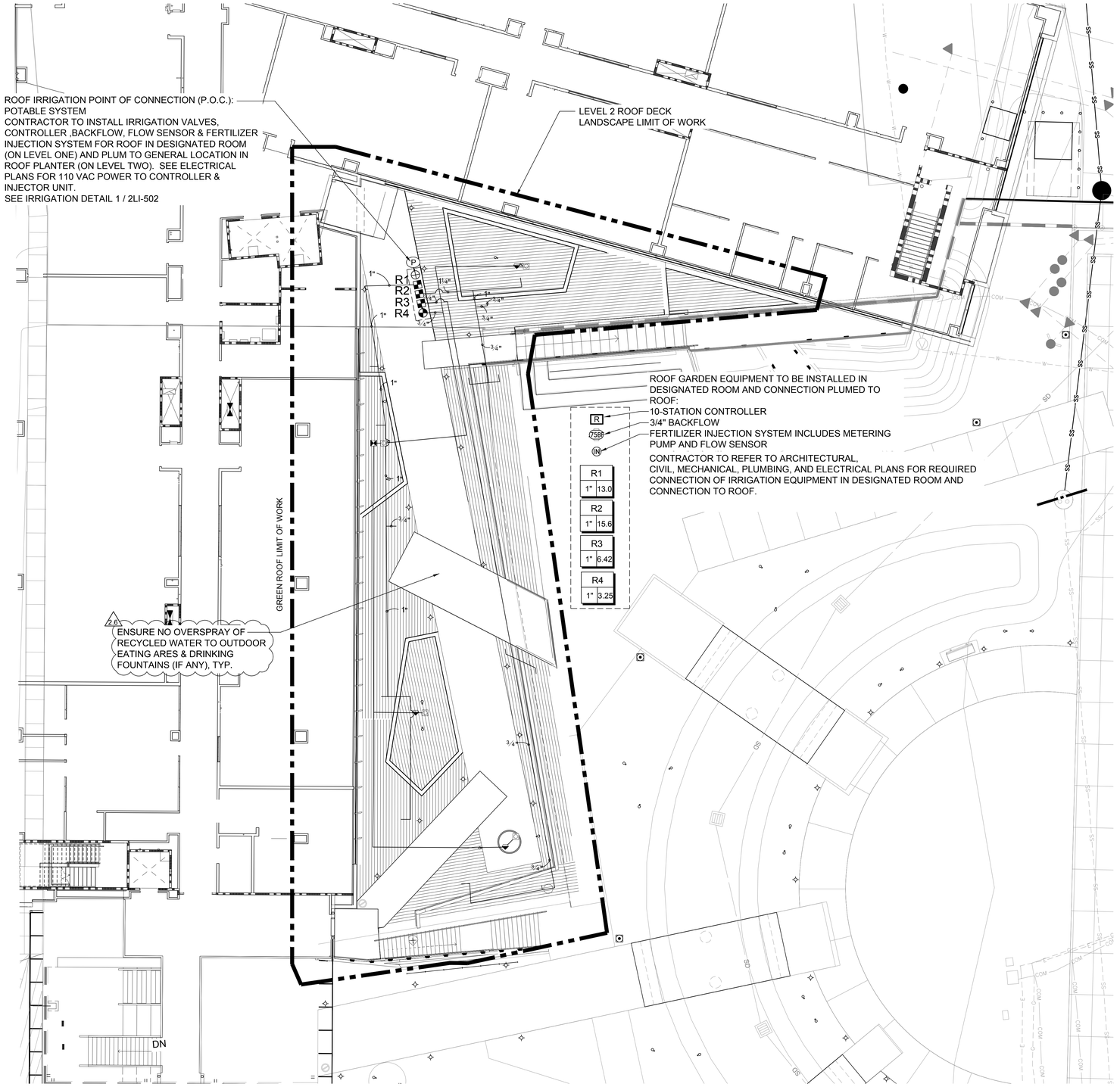

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
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2.6 WO#539269

GENE THEORY -
CP-2

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2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
LANDSCAPE IRRIGATION PLAN - GREEN ROOF

Sheet No.
2LI-106

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

2LI-100

2LI-101

2LI-102

2LI-103

2LI-104

2LI-105

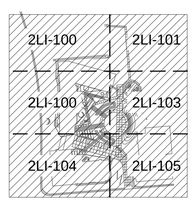


IRRIGATION EQUIPMENT BY AREA

SYMBOL	DESCRIPTION	QTY	GPM
	SHRUB DRIPLINE 0.6 GPH @ 12" O.C. DRIPLINE WITH 0.60 GPH EMITTERS AT 12" O.C., ROW SPACING AT 12" O.C.	14,575 S.F.	156
	SHRUB ROTATOR (HUNTER) 12` TO 30` RADIUS, TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	93,586 S.F.	438
	TURF ROTOR 15`-30` TRIANGULAR SPACED, HEAD TO HEAD COVERAGE. FULL AND PART CIRCLE HEADS.	3,362 S.F.	16

SEE SHEET 2LC-002 FOR LANDSCAPE IRRIGATION LEGEND & NOTES

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
SEE SHEET 2LI-500-2LI-501 FOR LANDSCAPE IRRIGATION DETAILS



0 15 30 60
SCALE : 1" = 30'-0"

NORTH

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

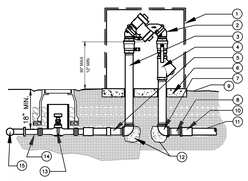
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT

DESIGN DEVELOPMENT
04.25.17

Sheet Title
LANDSCAPE IRRIGATION OVERALL SITE PLAN

Sheet No.
2LI-111

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



LEGEND:
1. SS SMOOTH TOUCH ENCLOSURE. INSTALL PER THE MANUFACTURER'S SPEC'S.
2. REDUCED PRESSURE BACKFLOW (BF) PREVENTION PER LEGEND. PROJECT CALLS FOR
   (A) SITE BACKFLOW
   (B) SMALL INTERIOR BACK FLOW FOR ROOF GARDEN.
3. BRASS THREADED RISER LENGHT AS NEEDED
4. WYE STRAINER (LINE SIZE)
5. BRASS MALE ADAPTER
6. 6" THICK CONCRETE PAD
7. COPPER THREADED ELL (2 REQUIRED)
8. 4" TYPE "K" COPPER NIPPLE
9. FINISH SURFACE
10. SCH. 40 PVC MALE ADAPTER
11. PVC SUPPLY LINE TO DRINKING FOUNTAIN PER PLANS FROM METER
12. CONCRETE THRUST BLOCKS. 1 CUBIC FT. MIN.
13. BALL VALVE PER DETAIL
14. TYPE "K" COPPER LINE (SIZE PER PLAN) WITH COPPER SOLDER FITTINGS AS REQ'D.
15. COPPER TEE AT COPPER LINE FROM METER TO DRINKING FOUNTAIN

NOTES:

A. ALL VALVES, FITTINGS & PIPES SHOWN ARE TO BE LINE SIZED EXCEPT WHERE INDICATED.

B. INSTALLATION SPECIFICATIONS SHOWN ARE SCHEMATIC AND DO NOT SUPERCEDE OR REPLACE ANY CITY OR STATE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE CODES.

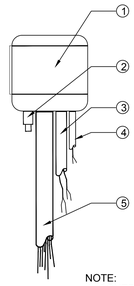
C. ALL THREADED CONNECTIONS SHALL BE SEALED WITH OVERLAPPING TURNS OF TEFLON TAPE SUFFICIENT TO PREVENT LEAKAGE.

D. BACKFLOW PREVENTER ASSEMBLY SHALL BE TESTED UPON INSTALLATION BY A CERTIFIED BACKFLOW DEVICE TESTER. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH WRITTEN TEST RESULTS COMPLETED BY A CERTIFIED BACKFLOW TESTER PRIOR TO BACKFLOW PREVENTER ASSEMBLY'S ACCEPTANCE BY THE ENGINEER.

E. ALL METAL IN CONTACT WITH CONCRETE SHALL BE POLYETHYLENE WRAPPED USING 2" WIDE PLASTIC BACKED ADHESIVE TAPE MIN. 2 MILS. THICK WITH 1/2" OVERLAP.

F. FACTORY ASSEMBLED DOUBLE CHECK ASSEMBLY REDUCED PRESSURE PRINCIPLE ASSEMBLY SHALL BE INCLUDED IN THE LASTEST EDITION OF THE "APPROVED FOR SERVICE ISOLATION IN CALIFORNIA PUBLIC WATER SYSTEMS" ISSUED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES, OFFICE OF DRINKING WATER.

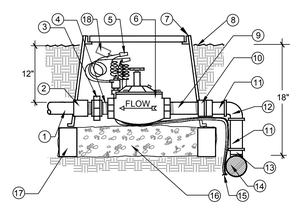
1 BACKFLOW PREVENTER ASSEMBLY
NTS



LEGEND:
1. WALL MOUNTED CONTROLLER PER PLAN
2. JUNCTION BOX; 3/4" RIGID SWEEP ELL CONDUIT TO POWER SOURCE. HOOK-UP WITH BUILDING TO PROVIDE 120V POWER.
3. 1-1/2" INCH CONDUIT DIRECT BURIAL TO MASTER VALVE / FLOW SENSOR WIRE.
4. 1" INCH CONDUIT FOR PHONE COMMUNICATION. COORDINATE WITH BUILDING PLANS TO CONNECT TO PHONE SOURCE.
5. 2" INCH CONDUIT FOR DIRECT BURIAL WIRES TO VALVES.

NOTE:
A. CONTRACTOR TO MOUNT GREEN ROOF GARDEN CONTROLLER ON INTERIOR WALL IN DESIGNATED ROOM FOR IRRIGAITON.

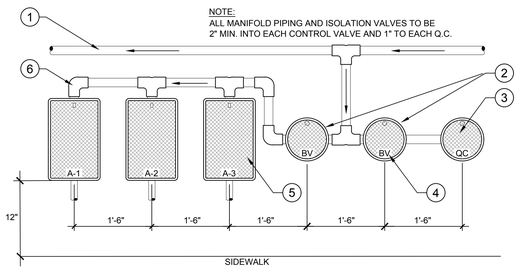
2 WALL MOUNTED CONTROLLER
NO SCALE



LEGEND:
1. PVC LATERAL LINE PER PLAN
2. PVC MALE ADAPTER
3. SCH. 80 PVC UNION, O-RING TYPE LASCO OR EQUAL
4. SCH.80 PVC NIPPLE
5. WATERPROOF WIRE CONNECTORS PER NOTES
6. REMOTE CONTROL ELECTRIC VALVE (RCV) PER LEGEND. PROVIDE PURPLE FOR SITE RCV (ROOF GARDEN RCV IS POTABLE)
7. 12" RECTANGULAR PLASTIC VALVE BOX (CARSON) WITH LOCKING LID. CONTROLLER AND VALVE NUMBER HEAT BRANDED INTO TOP. PROVIDE PURPLE BOX FOR "SITE" VALVES. STD. GREEN FOR POTABLE "ROOF GARDEN" VALVES.
8. FINISH GRADE - ALLOW 2" FOR MULCH IN SHRUB BEDS; FLUSH IN TURF
9. SCH.80 PVC NIPPLE
10. SCH.80 FEMALE ADAPTER (TXS)
11. PVC PIPE; PROVIDE 'PURPLE' PIPE FOR "SITE" INSTALLATION. "ROOF GARDEN" INSTALLATION IS POTABLE.
12. SCH.40 PVC ELL (SXS)
13. SCH.40 PVC TEE MAINLINE
14. PRESSURIZED PVC MAINLINE (SXSXS) PER LEGEND
15. 24 VOLT DIRECT BURIAL WIRES FROM CONTROLLER PER LEGEND.
16. 1 CUBIC FOOT PEA GRAVEL MIN. SUPPORTING VALVE BOX
17. UNMORTARED BRICK FOUNDATION
18. RECYCLED WATER WARNING TAG

NOTES:
1. ALL THREADED PIPE CONNECTIONS WILL BE SEALED WITH OVERLAPPING WRAPS OF TEFLON TAPE AS REQUIRED TO PREVENT LEAKAGE.
2. WIRE CONNECTORS WILL BE K.B."ONE-STEP" PRE-FILLED TAN) OR EQUAL.
3. DIRECT BURIAL COMMON AND CONTROL WIRES WILL BE COILED TO PROVIDE 12" EXPANSION COILS INSIDE VALVE BOX.
4. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP AROUND 1/2" PIPE 15 TIMES-REMOVE PIPE)
5. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
6. ALL "SITE" RECYCLED WATER VALVES SHALL HAVE SIGNAGE ATTACHED TO VALVE STATING "DO NOT DRINK," PER WATER DISTRICT AND HEATH DEPARTMENT REQUIREMENTS. "ROOF GARDEN" VALVES ARE POTABLE

3 REMOTE CONTROL VALVE
NO SCALE

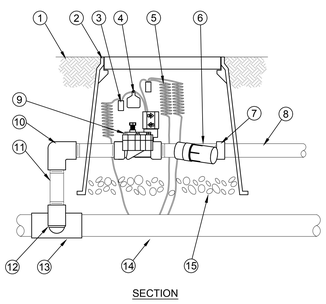


NOTE:
ALL MANIFOLD PIPING AND ISOLATION VALVES TO BE 2" MIN. INTO EACH CONTROL VALVE AND 1" TO EACH Q.C.

1. PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
2. BALL VALVES (SEE IRRIGATION LEGEND)
3. QUICK COUPLER (SEE IRRIGATION LEGEND)
4. HEAT BRAND ALL VALVES
5. ELECTRIC CONTROL VALVE
6. MANIFOLD PIPE-SAME SIZE AS PRESSURE SUPPLY LINE LOCATED UNDERNEATH VALVE BOXES. ALL MAINLINE FITTINGS TO BE SCH. 80 PVC

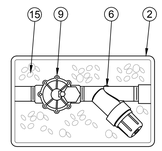
NOTE: EACH MANIFOLD SHALL HAVE A MAXIMUM OF 15' SEPARATION. ALL MANIFOLDS ARE TO BE INSTALLED IN PLANTER AREAS WHENEVER POSSIBLE.

4 MANIFOLD CONFIGURATION
No Scale



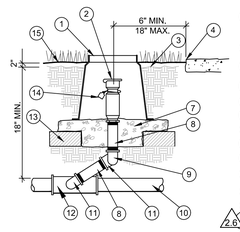
LEGEND:
1. FINISH GRADE
2. VALVE BOX WITH LOCKING LID, CONTROLLER AND VALVE NUMBER HEAT BRANDED INTO TOP. PROVIDE PURPLE TOP FOR RECYCLED WATER VALVES AND GREEN TOP FOR POTABLE VALVES.
3. WATERPROOF CONNECTION, TYPICAL
4. VALVE ID TAG; PROVIDE RECYCLED WATER ID TAG FOR VALVES ON RECYCLED WATER SYSTEM (NOTE 6).
5. 30-INCH LINEAR LENGTH OF WIRE, COILED
6. PRESSURE REGULATING FILTER PER MANUFACTURER'S RECOMMENDATIONS
7. PVC SCH 40 FEMALE ADAPTOR
8. PVC LATERAL PIPE
9. REMOTE CONTROL VALVE PER IRRIGATION LEGEND. PROVIDE PURPLE TOP & ID TAG FOR RECYCLED WATER VALVES, AND GREEN TOP FOR POTABLE VALVES.
10. PVC SCH 40 ELL
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL)
13. PVC SCH 40 TEE OR ELL
14. PVC MAINLINE
15. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

5 DRIP CONTROL VALVE KIT
NO SCALE



PLAN

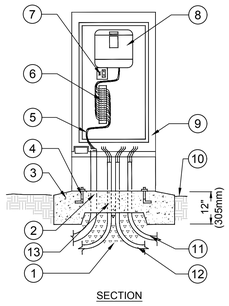
NOTES:
1. ALL THREADED PIPE CONNECTIONS WILL BE SEALED WITH OVERLAPPING WRAPS OF TEFLON TAPE AS REQUIRED TO PREVENT LEAKAGE.
2. WIRE CONNECTORS WILL BE K.B. "ONE-STEP" PRE-FILLED TAN OR EQUAL
3. DIRECT BURIAL COMMON AND CONTROL WIRES WILL BE COILED TO PROVIDE 12" EXPANSION COILS INSIDE VALVE BOX.
4. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP AROUND 1/2" PIPE 15 TIMES, REMOVE PIPE)
5. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACEN,T SOIL.
6. ALL RECYCLED WATER VALVES SHALL HAVE SIGNAGE ATTACHED TO VALVE STATING "DO NOT DRINK" PER WATER DISTRICT AND HEALTH DEPARTMENT REQUIREMENTS.



LEGEND:
1. 10" ROUND PURPLE COLOR PLASTIC VALVE BOX W/ LOCKING COVER & Q.C. HEAT BRANDED INTO TOP.
2. PURPLE QUICK COUPLER VALVE, WITH ACME THREADS, PER PLANS
3. FINISH GRADE. ALLOW 2" DEPTH FOR TOP MULCH
4. EDGE OF WALK/FACE OF CURB, FENCE OR MOW BAND
5. -
6. -
7. ONE CUBIC FOOT PEA GRAVEL
8. SCH.80 BRASS NIPPLE
9. P.V.C. ELL
10. SCH.40 PURPLE P.V.C. MAINLINE
11. STREET ELLS (2) REQUIRED PER QUICK COUPLER. NO MARLEX
12. SCH.40 P.V.C. TEE
13. COMMON BRICK
14. RECYCLED WATER WARNING TAG
15. GROUND COVER

NOTES:
1. QUICK COUPLERS SHALL BE OF THE LOCKING TYPE, PURPLE LOCKING CAP.
2. ALL P.V.C. FITTINGS SHALL BE SCH. 40 EXCEPT WHERE NOTED.
3. QUICK COUPLER & VALVE BOX SHALL MEET RECYCLED WATER REQUIREMENTS
4. ALL SCH.80 P.V.C. THREADS SHALL BE WRAPPED WITH TEFLON TAPE.
5. QUICK COUPLER SHALL BE OF A TYPE APPROVED FOR RECYCLED WATER USE.
6. QUICK COUPLER VALVES SHALL BE OF A TYPE APPROVED FOR RECYCLED WATER USE.

6 QUICK COUPLER FOR RECLAIMED WATER
NO SCALE

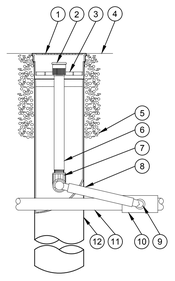


SECTION

NOTE:
A. FOR SITE CONTROLLER CONTRACTOR TO LABEL IRRIGATION CONTROLLER WITH "DO NOT DRINK SIGN." (GREEN ROOF CONTROLLER POTABLE)

LEGEND:
1. 1" (25mm) CRUSHED ROCK (6" (150mm) DEPTH MINIMUM)
2. CONDUIT FOR LOW VOLTAGE FIELD WIRES
3. CONCRETE BASE
4. ANCHOR BOLTS, NUTS & WASHERS (4 EACH)
5. FIELD WIRE BUNDLE. INCLUDES DIRECT BURIAL CABLES AND WIRES FROM CONDUITS PER PLAN.
6. TERMINAL STRIP WITH ELECTRICAL SURGE PROTECTION. CONTRACTOR SHALL ROUTE ALL FIELD WIRES TO THIS LOCATION (PER PLAN) ALL WIRES AND CABLES WILL BE BUNDLED AND COILED WITH AT LEAST 5 FEET (1.5m) OF ADDITIONAL WIRE SO AS TO PREVENT PULLING AT WIRE CONNECTIONS.
7. POWER SWITCH AND OUTLETS
8. ELECTRONIC CONTROLLER ASSEMBLY: PRE-ASSEMBLED ON STAINLESS STEEL BACKBOARD CONFIGURATION AS SHOWN PER PLAN
9. FOR SITE CONTROLLER: STAINLESS STEEL ENCLOSURE SHOWN WITH 12"(305mm) PEDESTAL MOUNTED SECURELY TO CONCRETE BASE ENCLOSURE PER PLANS. FOR INTERIOR GARDEN ROOF CONTROLLER: MOUNT TO WALL PER DETAIL 2.
10. FINISH GRADE
11. CONDUIT FOR 120 VOLT POWER SUPPLY
12. CONDUIT FOR PHONE / ETHERNET
13. CONDUIT FOR SITE HYDROMETER

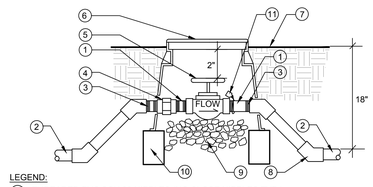
7 IRRIGATION CONTROLLER W/ ENCLOSURE
NO SCALE



LEGEND:
1. 4-INCH GRATE (INCLUDED)
2. BUBBLER: RAIN BIRD 1404 1.00 GPM (INCLUDED)
3. ROOT WATERING SYSTEM PER LEGEND
4. FINISH GRADE
5. OPTIONAL PEA GRAVEL OR RWS SAND SOCK (RWS-SOCK) FOR SANDY SOILS. SEE IRRIGATION LEGEND.
6. 1/2-INCH PVC SCH 80 NIPPLE (INCLUDED)
7. 1/2-INCH 90-DEGREE ELBOW (INCLUDED)
8. 12-INCH SWING ASSEMBLY (INCLUDED)
9. 1/2-INCH MALE NPT INLET (INCLUDED)
10. PVC SCH 40 TEE OR EL
11. LATERAL PIPE
12. 4-INCH BASKET WEAVE CANISTER (INCLUDED)

NOTE:
A. PROVIDE PURPLE GRATE IF INSTALLED ON RECYCLED WATER SYSTEM.
B. INSTALL DEEP ROOT SYSTEM(S) PER MANUFACTURES SPECIFICATIONS.

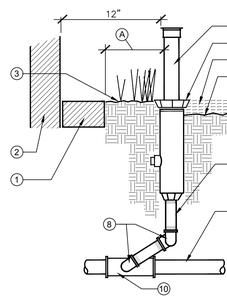
8 DEEP ROOT WATERING SYSTEM
NO SCALE



LEGEND:
1. THREADED PVC SCH 80 NIPPLES (NO CLOSE NIPPLES TYP.)
2. PRESSURIZED PVC MAINLINE PER PLAN
3. PVC FEMALE SXT ADAPTER
4. PVC SCH 80 UNION
5. BALL OR GATE VALVE WITH HANDLE. POSITION VALVE IN BOX SO THAT HANDLE IS FREE TO OPERATE. PROVIDE PURPLE HANDLE AND TAG FOR VALVES ON RECYCLED WATER SYSTEM.
6. 10" ROUND PLASTIC VALVE BOX FOR 2" VALVE AND SMALLER. RECTANGULAR PLASTIC VALVE BOX FOR 2-1/2" VALVE AND LARGER (PER SPECIFICATIONS). INSTALL 2" ABOVE FINISHED GRADE IN SHRUB BED. 1/2" ABOVE IN LAWN AREAS. PROVIDE PURPLE BOX WITH LID FOR VALVES ON RECYCLED WATER, AND STANDARD GREEN FOR POTABLE VALVES.
7. FINISHED GRADE
8. PVC SCH 40; 45 DEG. FITTING- PROVIDE PURPLE PVC IF SYSTEM IS RECYCLED WATER
9. PEA GRAVEL 1/2" DIAMETER (APPROX. 1 CU. FT.)
10. UNMORTARED BRICK FOUNDATION
11. RECYCLED WATER WARNING TAG

NOTE: ALL RECYCLED WATER VALVE BOXES SHALL HAVE PURPLE LOCKING LIDS AND ID TAG.

9 BALL/GATE VALVE
NO SCALE

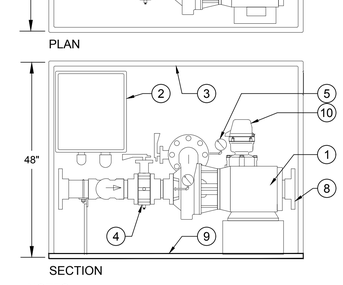


LEGEND:
1. WALK OR CURB
2. BUILDING WALL (WHERE APPLICABLE)
3. FINISH GRADE IN TURF AREAS
4. POP-UP ROTOR HEAD AND NOZZLE
5. MULCH LAYER IN PLANTING AREAS
6. FINISH GRADE IN PLANTING AREAS
7. SCH.80 P.V.C. NIPPLE (2 EACH) SIZE PER HEAD INLET
8. PVC STREET ELL (2 EACH) SIZE PER HEAD INLET
9. PURPLE PVC LATERAL (PER PLAN)
10. PVC TEE OR ELL (SXSXT)
11. PURPLE CAP FOR RECYCLED WATER

NOTES:
1. ALL P.V.C. FITTINGS SHALL BE SCH. 40 EXCEPT WHERE NOTED.
2. ALL SCH.80 P.V.C. THREADS SHALL BE WRAPPED WITH TEFLON TAPE. OR RECOMMENDED BY MANUFACTURER

A. 3" SPRAY DISTANCE
   6" ROTOR DISTANCE

10 POP-UP ROTOR/SPRAY HEAD FOR RECYCLED WATER
NO SCALE



PLAN

SECTION

NOTES:
1. BARRETT PUMP MODEL PER LEGEND & SPECIFICATIONS
2. CONTRACTOR TO COORDINATE WITH PUMP CONSULTANT PROJECT. CONTACT

LEGEND:
1. CLOSE-COUPLED END SUCTION CENTRIFUGAL PUMP, CAST IRON BRONZE FITTED, MECHANICAL SEAL, ODP MOTOR.
2. NEMA 4 ENCLOSED CONTROL PANEL, FOR AUTOMATIC BOOSTER PUMP CONTROL.
3. MARINE GRADE ALUMINUM ENCLOSURE, TOP HINGED DESIGN WITH VENTING.
4. CAST IRON ELASTOMER LINED FULL LUG WAFER STYLE BUTTERFLY VALVE.
5. PRESSURE GAUGE, 2 1/2" DIAL, LIQUID FILLED, STAINLESS CASE, 0 - 200 PSI.
6. FLOW SWITCH, ADJUSTABLE, THERMAL DISPERSION WITH LED DISPLAY.
7. SCH 10S ST STEEL, 2 1/2 INCH.
8. 150# ANSI RATED OUTPUT FLANGE.
9. FABRICATED STRUCTURAL ALUMINUM BASEPLATE.
10. CAST IRON 24 VAC HYDROMETER WITH PRESSURE REGULATION

11 BARRETT PUMP WITH HYDROMETER
NO SCALE

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
SEE SHEET 2LI-500-2LI-503 FOR LANDSCAPE IRRIGATION DETAILS

2.6 WO#539269

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	12.13.17	PLAN CHECK SUBMITTAL
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

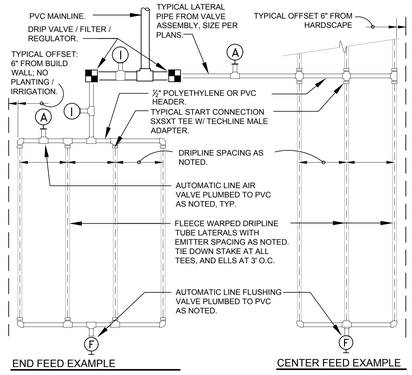
IFC 11.20.17

Sheet Title
LANDSCAPE IRRIGATION DETAILS

Sheet No.
2LI-500

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



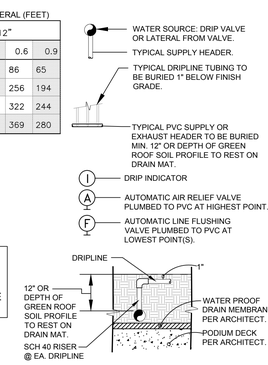
DRIPLINE MAXIMUM LENGTH OF SINGLE LATERAL (FEET)

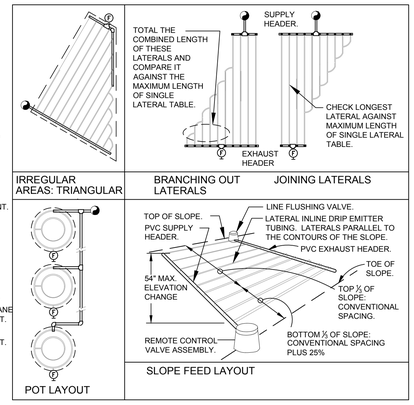
DRIPPER SPACING		12"			
DRIPPER FLOW RATE (GPH)		0.26	0.4	0.6	0.9
INLET PRESSURE (PSI)	15	127	109	86	65
	25	427	325	256	194
	30	539	409	322	244
	45	618	469	369	280

DRIPLINE FLOW PER 100 FEET

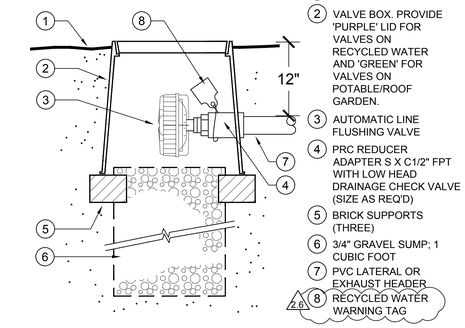
DRIPPER SPACING	0.60 GPH DRIPPER	
	GPH	GPM
12"	61.00	1.02

RECYCLED WATER NOTE:
USE PURPLE TUBING FOR RECYCLED WATER SYSTEM, STANDARD BROWN FOR POTABLE SYSTEM.



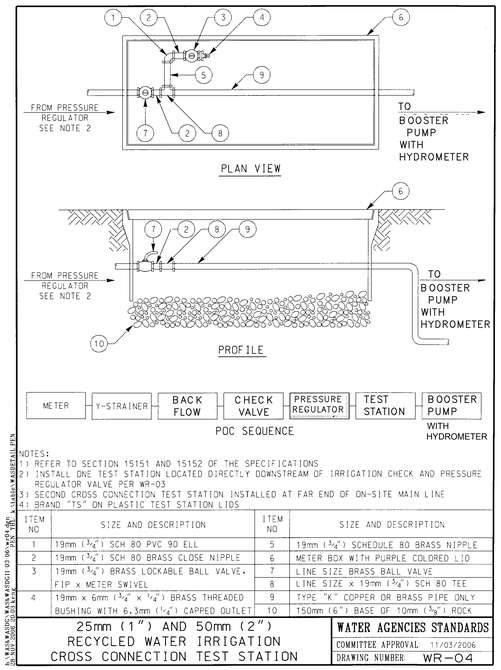


1 DRIPLINE LAYOUT-12"
NO SCALE



LEGEND:
1. FINISH GRADE
2. VALVE BOX. PROVIDE 'PURPLE' LID FOR VALVES ON RECYCLED WATER AND 'GREEN' FOR VALVES ON POTABLE/ROOF GARDEN.
3. AUTOMATIC LINE FLUSHING VALVE
4. PRC REDUCER ADAPTER S X C1/2" FPT WITH LOW HEAD DRAINAGE CHECK VALVE (SIZE AS REQ'D)
5. BRICK SUPPORTS (THREE)
6. 3/4" GRAVEL SUMP; 1 CUBIC FOOT
7. PVC LATERAL OR EXHAUST HEADER
8. RECYCLED WATER WARNING TAG

2 AUTOMATIC FLUSH VALVE
NO SCALE



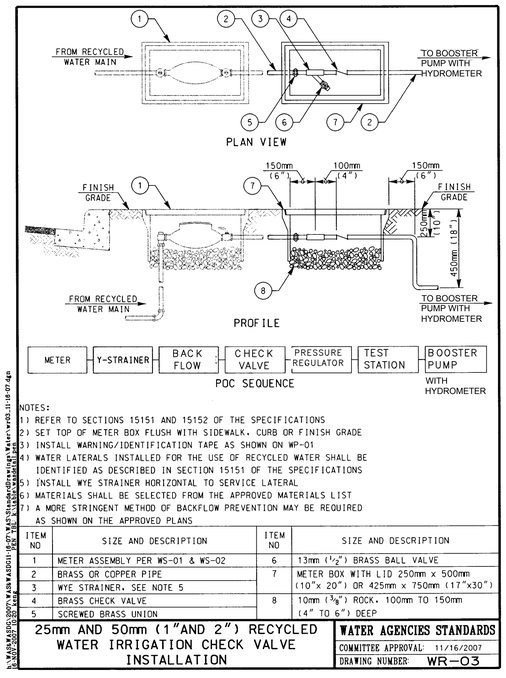
NOTES:
1) REFER TO SECTION 15151 AND 15152 OF THE SPECIFICATIONS
2) INSTALL ONE TEST STATION LOCATED DIRECTLY DOWNSTREAM OF IRRIGATION CHECK AND PRESSURE REGULATOR VALVE PER WR-03
3) SECOND CROSS CONNECTION TEST STATION INSTALLED AT FAR END OF ON-SITE MAIN LINE
4) BRAND "TS" ON PLASTIC TEST STATION LIDS

ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	19mm (¾") SCH 80 PVC 90 ELL	5	19mm (¾") SCHEDULE 80 BRASS NIPPLE
2	19mm (¾") SCH 80 BRASS CLOSE NIPPLE	6	METER BOX WITH PURPLE COLORED LID
3	19mm (¾") BRASS LOCKABLE BALL VALVE. FIP x METER SWIVEL	7	LINE SIZE BRASS BALL VALVE
		8	LINE SIZE x 19mm (¾") SCH 80 TEE
4	19mm x 6mm (¾" x ¼") BRASS THREADED BUSHING WITH 6.3mm (¼") CAPPED OUTLET	9	TYPE "K" COPPER OR BRASS PIPE ONLY
		10	150mm (6") BASE OF 10mm (⅜") ROCK

25mm (1") AND 50mm (2") RECYCLED WATER IRRIGATION CROSS CONNECTION TEST STATION

WATER AGENCIES STANDARDS
COMMITTEE APPROVAL 11/03/2006
DRAWING NUMBER WR-04

3 CROSS CONNECTION TEST STATION
NO SCALE



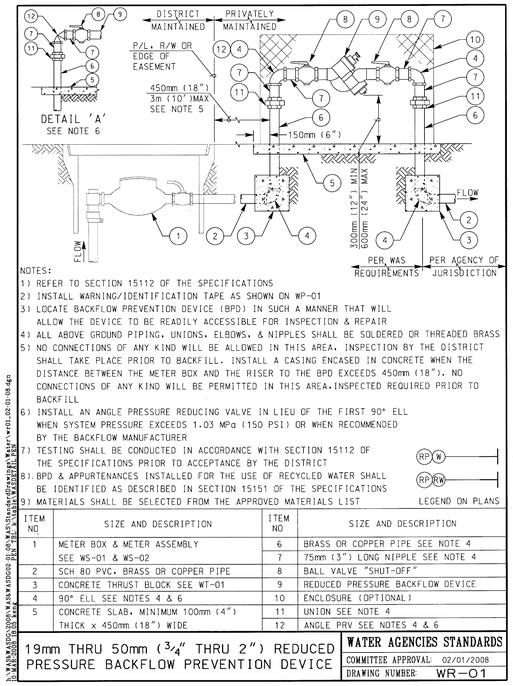
NOTES:
1) REFER TO SECTIONS 15151 AND 15152 OF THE SPECIFICATIONS
2) SET TOP OF METER BOX FLUSH WITH SIDEWALK. CURB OR FINISH GRADE
3) INSTALL WARNING/IDENTIFICATION TAPE AS SHOWN ON WP-01
4) WATER LATERALS INSTALLED FOR THE USE OF RECYCLED WATER SHALL BE IDENTIFIED AS DESCRIBED IN SECTION 15151 OF THE SPECIFICATIONS
5) INSTALL WYE STRAINER HORIZONTAL TO SERVICE LATERAL
6) MATERIALS SHALL BE SELECTED FROM THE APPROVED MATERIALS LIST
7) A MORE STRINGENT METHOD OF BACKFLOW PREVENTION MAY BE REQUIRED AS SHOWN ON THE APPROVED PLANS

ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	METER ASSEMBLY PER WS-01 & WS-02	6	13mm (½") BRASS BALL VALVE
2	BRASS OR COPPER PIPE	7	METER BOX WITH LID 250mm x 500mm (10"x 20") OR 425mm x 750mm (17"x30")
3	WYE STRAINER. SEE NOTE 5		
4	BRASS CHECK VALVE	8	10mm (⅜") ROCK. 100mm TO 150mm (4" TO 6") DEEP
5	SCREWED BRASS UNION		

25mm AND 50mm (1"AND 2") RECYCLED WATER IRRIGATION CHECK VALVE INSTALLATION

WATER AGENCIES STANDARDS
COMMITTEE APPROVAL 11/16/2007
DRAWING NUMBER WR-03

4 WATER IRRIGATION CHECK VALVE INSTALLATION
NO SCALE



NOTES:
1) REFER TO SECTION 15112 OF THE SPECIFICATIONS
2) INSTALL WARNING/IDENTIFICATION TAPE AS SHOWN ON WP-01
3) LOCATE BACKFLOW PREVENTION DEVICE (BPD) IN SUCH A MANNER THAT WILL ALLOW THE DEVICE TO BE READILY ACCESSIBLE FOR INSPECTION & REPAIR
4) ALL ABOVE GROUND PIPING, UNIONS, ELBOWS, & NIPPLES SHALL BE SOLDERED OR THREADED BRASS
5) NO CONNECTIONS OF ANY KIND WILL BE ALLOWED IN THIS AREA. INSPECTION BY THE DISTRICT SHALL TAKE PLACE PRIOR TO BACKFILL. INSTALL A CASING ENCASED IN CONCRETE WHEN THE DISTANCE BETWEEN THE METER BOX AND THE RISER TO THE BPD EXCEEDS 450mm (18"). NO CONNECTIONS OF ANY KIND WILL BE PERMITTED IN THIS AREA. INSPECTED REQUIRED PRIOR TO BACKFILL
6) INSTALL AN ANGLE PRESSURE REDUCING VALVE IN LIEU OF THE FIRST 90° ELL WHEN SYSTEM PRESSURE EXCEEDS 1.03 MPa (150 PSI) OR WHEN RECOMMENDED BY THE BACKFLOW MANUFACTURER
7) TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION 15112 OF THE SPECIFICATIONS PRIOR TO ACCEPTANCE BY THE DISTRICT
8) BPD & APPURTENANCES INSTALLED FOR THE USE OF RECYCLED WATER SHALL BE IDENTIFIED AS DESCRIBED IN SECTION 15151 OF THE SPECIFICATIONS
9) MATERIALS SHALL BE SELECTED FROM THE APPROVED MATERIALS LIST

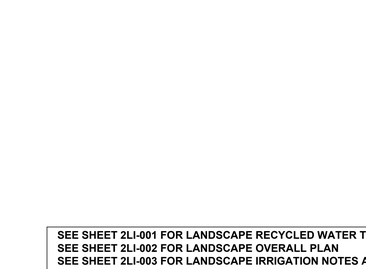
(RP W) (RP EW) LEGEND ON PLANS

ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
	METER BOX & METER ASSEMBLY SEE WS-01 & WS-02	6	BRASS OR COPPER PIPE SEE NOTE 4
		7	75mm (3") LONG NIPPLE SEE NOTE 4
2	SCH 80 PVC. BRASS OR COPPER PIPE	8	BALL VALVE "SHUT-OFF"
3	CONCRETE THRUST BLOCK SEE WT-01	9	REDUCED PRESSURE BACKFLOW DEVICE
4	90° ELL SEE NOTES 4 & 6	10	ENCLOSURE (OPTIONAL)
5	CONCRETE SLAB. MINIMUM 100mm (4") THICK x 450mm (18") WIDE	11	UNION SEE NOTE 4
		12	ANGLE PRV SEE NOTES 4 & 6

19mm THRU 50mm (¾" THRU 2") REDUCED PRESSURE BACKFLOW PREVENTION DEVICE

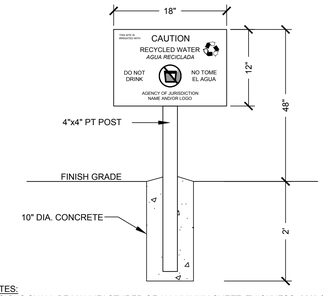
WATER AGENCIES STANDARDS
COMMITTEE APPROVAL 02/01/2008
DRAWING NUMBER: WR-01

5 RECYCLED WATER / POTABLE WATER BACKFLOW
NO SCALE



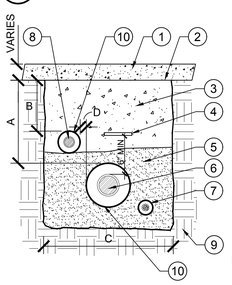
LEGEND:
1. AIR RELIEF VALVE AS SPECIFIED PER IRRIGATION LEGEND.
2. 6" ROUND VALVE BOX. PROVIDE 'PURPLE' FOR VALVES ON RECYCLED WATER SYSTEM, 'GREEN' FOR VALVES ON POTABLE/ROOF GARDEN.
3. 1" FPTXMPT ELL.
4. 3/4"X1" MPT ADAPTER.
5. PVC LATERAL, SIZE AND TYPE PER IRRIGATION LEGEND.
6. 3" THICK LAYER OF WASHED GRAVEL. THE BOX SHALL REST UPON THE ROCK BED. DO NOT EXTEND GRAVEL INTO BOX.

6 AIR RELIEF VALVE FOR DRIPLINE IRRIGATION
NO SCALE



NOTES:
A. SIGNS SHALL BE MANUFACTURED OF ALLUMINUM SHEET, THICKNESS .080" OR 18GA.
B. THE SIGN SHALL INCORPORATE A PURPLE BACKGROUND WITH WHITE LETTERS AND SYMBOLS.
C. SIGNS SHALL BE MOUNTED ON 4"x4" NOM. PRESSURE TREATED WOOD POST SET INTO CONCRETE. ATTACH SIGN TO POST USING 1/4" x 2 1/2" ANODIZED LAG SCREWS AND WASHERS (2 EACH)
D. ALL RECLAIMED WATER SIGNAGE SHALL COMPLY WITH WATER AGENCIES STANDARDS.

7 RECLAIMED WATER "DO NOT DRINK" SIGN
NO SCALE

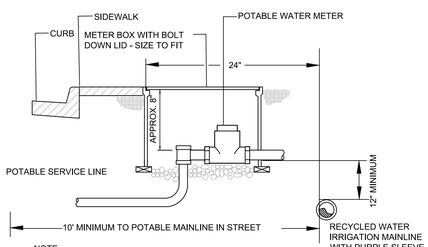


1. PAVING PER PLAN
2. FINISHED GRADE
3. CLEAN COMPACTED BACKFILL
4. MARKING STRIP
5. SAND BEDDING MATERIAL
6. IRRIGATION MAINLINE PER PLAN
7. DIRECT BURIAL CONTROL WIRES
8. LATERAL LINES PER PLAN
9. UNDISTURBED SOIL
10. SCH. 40 PVC SLEEVE 2x PIPE SIZE DIAMETER MIN. (EXTEND 12" MIN. BEYOND PAVING)

NOTE:
1. ALL PIPE AND CONTROL WIRE UNDER PAVEMENT SHALL BE INSTALLED IN A P.V.C. SLEEVE, 2X THE DIA. OF PIPE OR BUNDLE MIN.
2. BACKFILL MATERIAL SHALL BE COMPACTED PER SOILS REPORT.
3. PRESSURE MAINLINE SHALL BE INSTALLED ON A 6" SAND BED AND COVERED BY 6" OF SAND PRIOR TO ANY OTHER BACKFILL MATERIAL.

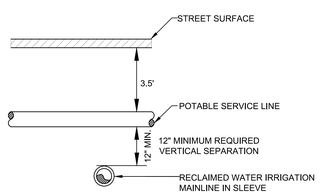
DIMENSION - PED.	A	B	C	D
2" - 12" SIZE	30"	24"	24"	6"
DIM - VEHICULAR				
2 - IR" SIZE	36"	30"	30"	6"

8 SLEEVING UNDER PAVEMENT
NO SCALE



NOTE:
VERTICAL CLEARANCE OF 12" MINIMUM IS MANDATORY WHEN CROSSING PATH OF A POTABLE WATER LINE. INSTALLATION OF RECYCLED WATER IRRIGATION MAINLINE 24" FROM FACE OF SIDEWALK WILL PROVIDE THE NECESSARY 10' HORIZONTAL CLEARANCE FROM POTABLE MAINLINE IN STREET.

9 POTABLE MAINLINE CROSSING
NO SCALE



NOTE:
ALL RECLAIMED WATER IRRIGATION PIPE AND SLEEVES SHALL BE PURPLE AND LABELED AS SPECIFIED IN THE "STANDARD SPECIFICATIONS FOR PRIVATE IRRIGATION SYSTEMS WATER DISTRICT" RULES AND REGULATIONS FOR CONSTRUCTION OF RECLAIMED WATER MAINS OCTOBER 1993.

10 POTABLE SERVICE LINE CROSSING
NO SCALE

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
SEE SHEET 2LI-500-2LI-503 FOR LANDSCAPE IRRIGATION DETAILS

2.6 WO#539269

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	12.13.17	PLAN CHECK SUBMITTAL
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

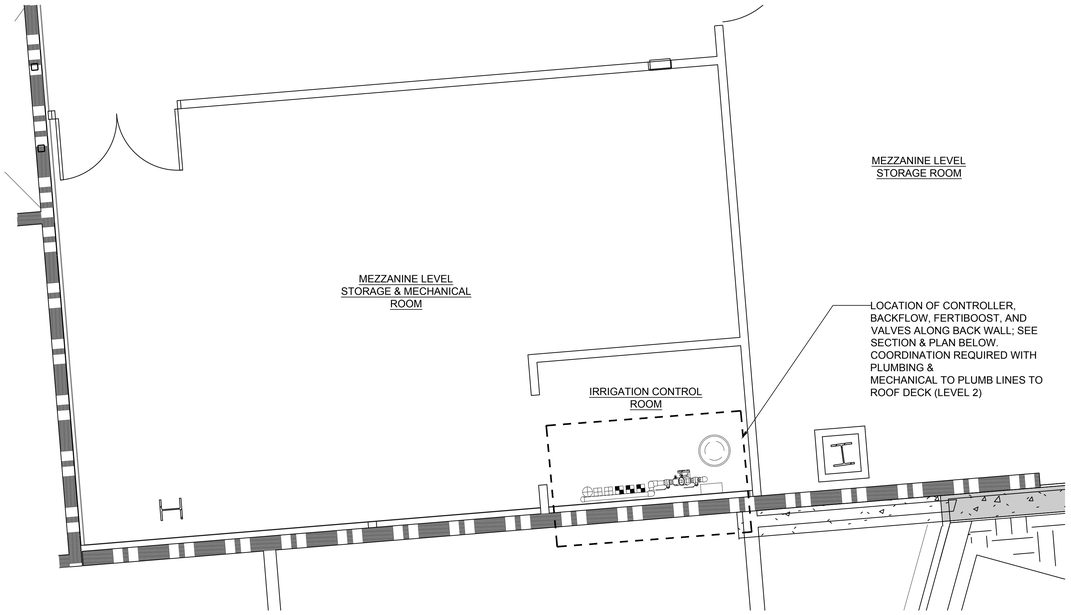
IFC 11.20.17

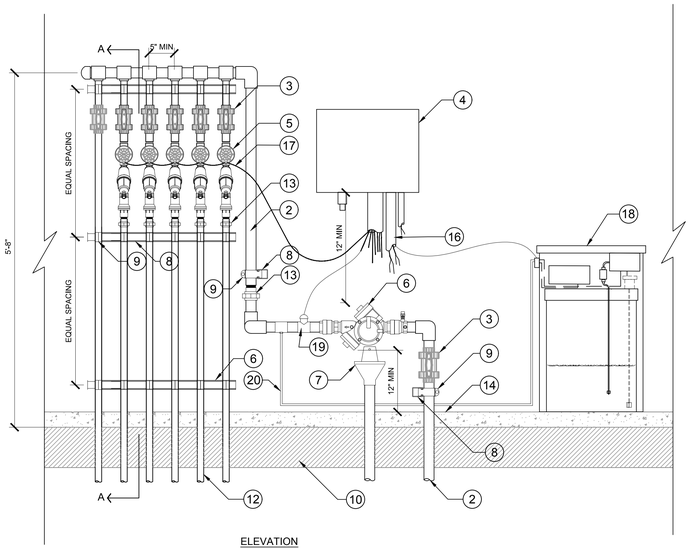
Sheet Title
LANDSCAPE IRRIGATION DETAILS

Sheet No.
2LI-501

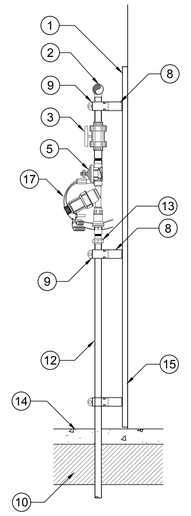
DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

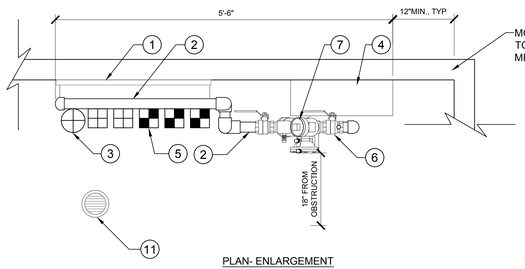




ELEVATION



TYPICAL VALVE ASSEMBLY
SECTION A-A



MOUNT CONTROLLER & VALVES TO THE BACK WALL OF STORAGE & MECHANICAL ROOM LEVEL 1.

PLAN- ENLARGEMENT

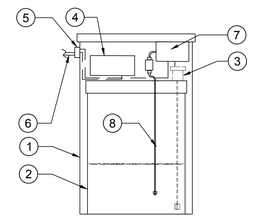
NOTE:
1. ALL IRRIGATION EQUIPMENT IN MECHANICAL ROOM TO BE SCHEDULE 80 PVC.
2. ALL WALLS PER ARCHITECTURAL PLANS.
3. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND PLUMBING CONSULTANT.
4. PROVIDE WITH VENT WITH FAN COORDINATE WITH ARCHITECT, ELECTRICAL AND MECHANICAL ENGINEER.
5. INSTALL CONTROLLER AND COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS.

LEGEND:

1. 1/2" THICK HARDIBACKER BOARD / WATER PROOF WALL PER ARCHITECTURAL PLANS.
2. SCHEDULE 80 IRRIGATION MAINLINE, SIZE PER PLAN. SEE MECHANICAL PLANS FOR CONTINUATION.
3. SCHEDULE 80 TRUE UNION BALL VALVE, LINE SIZE. BY NIBCO OR APPROVED EQUAL.
4. MODULAR CONTROLLER PER PLAN. INDOOR MOUNT AND PULL POWER FROM BUILDING.
5. DRIP SYSTEM REMOTE CONTROL VALVE ASSEMBLY PER PLAN.
6. BACKFLOW PREVENTOR PER PLAN.
7. AIR GAP DRAIN FOR BACKFLOW PREVENTOR PER MANUFACTURER'S RECOMMENDATIONS. SEE MECHANICAL PLANS FOR CONTINUATION OF DRAIN LINE. INSTALL BELOW FINISHED FLOOR.
8. 1-5/8" X 3-1/4", 12 GAGE CHANNEL, DOUBLE COMBINATION UNISTRUT CHANNEL FOR USE WITH SECURING IRRIGATION EQUIPMENT TO WALL. ATTACH UNISTRUT TO BACKER BOARD WITH STAINLESS STEEL FASTENERS.
9. VIBRACLAMP PIPE CLAMPS OR APPROVED EQUAL FOR USE WITH UNISTRUT CHANNEL. CLAMP SHALL BE PIPE SIZE AND COMPATIBLE WITH THE OUTSIDE DIAMETER OF PIPE TO BE SECURED.
10. PODIUM DECK PER ARCHITECTURAL PLANS.
11. DRAIN SEE ARCHITECTURAL AND MECHANICAL PLANS.
12. SCHEDULE 80 IRRIGATION LATERAL LINE, SIZE PER PLAN. SEE MECHANICAL PLANS FOR CONTINUATION UNDER PODIUM DECK.
13. FPT X FPT SCHEDULE 80 UNION, PIPE SIZE.
14. CONCRETE PAVING OVER PODIUM DECK. SEE ARCHITECTURAL PLANS FOR WATER PROOFING.
15. BUILDING WALL - SEE ARCHITECTURAL PLANS FOR FINISH AND WATER PROOFING.
16. 3/4" CONDUIT FOR 110V POWER. SEE ELECTRICAL PLANS.
17. 18 GAUGE MULTI- STRAND IRRIGATION WIRE.
18. FERTIBOOST FERTILIZER INJECTION SYSTEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
19. FLOW SENSOR PER FERTIBOOST FERTILIZER INJECTION SYSTEM PACKAGE/REQUIREMENTS. INSTALL ON LINE PER MANUFACTURER'S RECOMMENDATIONS.
20. FERTIBOOST FERTILIZER INJECTION LINE

1 POTABLE ROOF GARDEN-IRRIGATION EQUIPMENT ROOM

NO SCALE



FLOW METER WIRE TO CONTROLLER
MAINLINE
INJECTION LINE TO TANK

GENERAL LINE CONNECTION

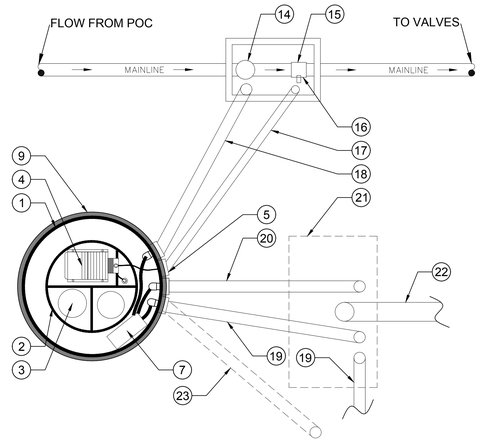
LEGEND:

1. FERTIBOOST-1 POLY CONTAINMENT TANK (OUTER TANK) WITH LOCKABLE LID @ 22" D X 40" HT.
2. FERTIBOOST-1 POLY FERTILIZER TANK; (INNER TANK) 16 GAL.
3. ELECTRIC AGITATOR MOTOR (OPTIONAL)
4. METERING PUMP
5. J-BOX; SERVICE 120V CONDUIT CONNECTION(S)
6. POLY INJECTION LINE TO SYSTEM
7. CONTROL PANEL
8. PUMP SUCTION & LEVEL SENSOR

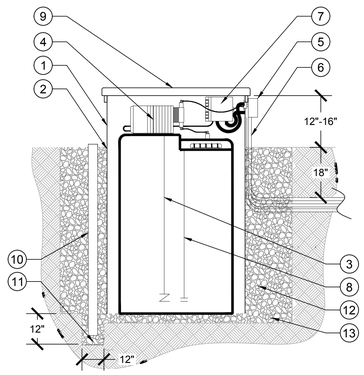
NOTES:
1. SYSTEM- FERTIBOOST-1, METERING PUMP, FLOW SENSOR; PER LEGEND. INTERIOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

2 FERTIBOOST 1-LANDSCAPE INJECTION SYSTEM-INDOOR

NO SCALE



NOTES:
1. SYSTEM- FERTIBOOST-1, METERING PUMP, FLOW SENSOR; PER LEGEND. INTERIOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

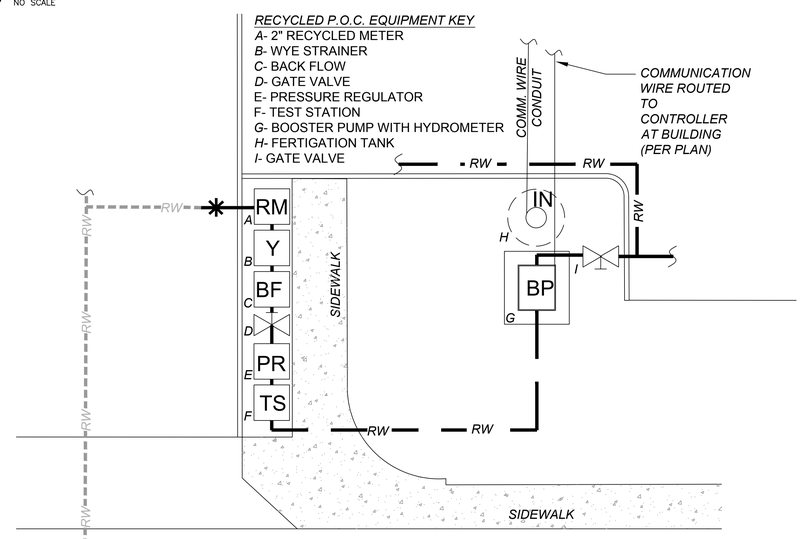


LEGEND:

1. FERTIBOOST-1 POLY CONTAINMENT TANK (OUTER TANK) WITH LOCKABLE LID @ 27" D X 47" HT.
2. FERTIBOOST-1 POLY FERTILIZER TANK; (INNER TANK) 26 GAL.
3. ELECTRIC AGITATOR MOTOR (OPTIONAL)
4. METERING PUMP
5. ELECTRICAL J-BOXES
6. CONDUITS
7. CONTROL PANEL
8. FOOT VALVE AND LEVEL SWITCH
9. LOCKABLE LID
10. 3" PERFORATED DRAIN PIPE
11. GRAVEL SUMP HOLE
12. HOLE BACKFILL
13. 3" PEA GRAVEL LEVELING BASE
14. FLOW SENSOR
15. PVC TEE
16. INJECTION POINT CHECK VALVE
17. INJECTION FEED LINE CONDUIT W/ 3/4" OD TUBING
18. FLOW SENSOR CABLE CONDUIT
19. 110 VOLT ELECTRIC CONDUIT
20. PUMP CONTROL CABLE CONDUIT - OPTIONAL CONTROLLER ACTIVATION 24VAC
21. CONTROLLER ENCLOSURE
22. VALVE CONTROL WIRE CONDUIT
23. OPTIONAL POWER CONDUIT FROM ALTERNATIVE SOURCE

3 FERTIBOOST 1-LANDSCAPE INJECTION SYSTEM-OUTDOOR

NO SCALE



4 SITE RECYCLED WATER POINT OF CONNECTION

NO SCALE

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
SEE SHEET 2LI-500-2LI-502 FOR LANDSCAPE IRRIGATION DETAILS

2.3

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE IRRIGATION DETAILS

Sheet No.
2LI-502

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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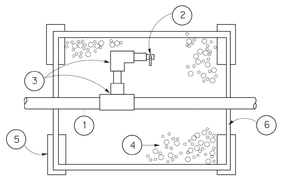
2.6

NOTE:

1. A CROSS-CONNECTION TEST AND COVERAGE TEST SHALL BE CONDUCTED AS DIRECTED BY THE CITY OF SAN DIEGO WATER DISTRICT AND/OR THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH PRIOR TO ANY USE OF RECYCLED WATER.
2. THE REQUIRED CROSS-CONNECTION CONTROL SHUTDOWN TEST SHALL BE MONITORED BY EITHER THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH OR STATE HEALTH.



PLAN

LEGEND:

1. MAINLINE
2. 2" BALL VALVE WITH ¼" FEMALE THREAD

BALL VALVES SHALL HAVE A TWO PIECE BRASS OR BRONZE BODY, FULL PORT BODY, AND SHALL CONFORM TO THE FOLLOWING:

SPECIFICATION	MINIMUM REQUIREMENT
NON SHOCK COLD WATER WORKING PRESSURE	400 PSI
SEATS	TFE (TEFLON)
O RING SEALS	TFE (TEFLON)

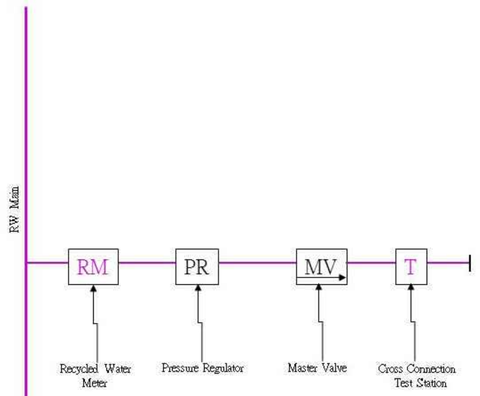
BALL VALVES SHALL BE OF THE SAME SIZE AS THE PIPELINE WHICH THE VALVES SERVE, UNLESS OTHERWISE NOTED ON THE PLANS. BALL VALVES SHALL BE INSTALLED IN A VALVE BOX.

3. PVC SCH 40 SOLVENT WELD FITTINGS
4. ⅜" Dia PEA GRAVEL SUMP (Min ½ CF)
5. BRICK SUPPORTS ON COMPACTED/ UNDISTURBED SUBGRADE (Min OF FOUR PER BOX)
6. PURPLE COLOR VALVE BOX AND LID

* ONLY ON TEST STATIONS DOWNSTREAM OF THE METER

CROSS CONNECTION CONTROL TEST STATION (CCCTS)

1 RECYCLED WATER CROSS CONNECTION TEST STATION
NO SCALE



Test Station must be downstream of the Meter after Master Valve

2 RECYCLED WATER CROSS CONNECTION TEST STATION DIAGRAM
NO SCALE



SAMPLE WARNING TAG. BACKGROUND PURPLE (PANTONE 512) WITH BLACK LETTERING

TAG FOR RECYCLED WATER

3 RECYCLED WATER WARNING TAG
NO SCALE

SEE SHEET 2LI-001 FOR LANDSCAPE RECYCLED WATER TITLE SHEET
SEE SHEET 2LI-002 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LI-003 FOR LANDSCAPE IRRIGATION NOTES AND LEGEND
SEE SHEET 2LI-100-2LI-106 FOR LANDSCAPE IRRIGATION PLANS
SEE SHEET 2LI-500-2LI-503 FOR LANDSCAPE IRRIGATION DETAILS

2.6 WO#539269

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	12.13.17	PLAN CHECK SUBMITTAL
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
LANDSCAPE IRRIGATION DETAILS

Sheet No.
2LI-503

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Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

PLANTING NOTES

1. CONTRACTOR SHALL REVIEW PLANTING SPECIFICATIONS BEFORE BEGINNING WORK.
2. CONTRACTOR SHALL REVIEW PLANTING INSTALLATION DETAILS PRIOR TO BEGINNING WORK.
3. CONTRACTOR SHALL VISIT SITE AND BECOME FAMILIAR WITH CONDITIONS UNDER WHICH WORK SHALL BE DONE PRIOR TO BIDDING.
4. ALL WORK WILL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS FOR THE PROJECT.
5. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IN THE EXISTING CONDITIONS OR WITHIN THE PLANS PRIOR TO BEGINNING WORK.
6. FINISHED GRADES SHALL BE SMOOTHED TO ELIMINATE PUDDLING OR STANDING WATER. CONTRACTOR SHALL MAINTAIN A MINIMUM 1.5% DRAINAGE AWAY FROM PAVING INTO DRAINAGE STRUCTURES OR TO STREET (SEE ENGINEER'S GRADING AND DRAINAGE PLAN). CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT IMMEDIATELY OF ANY CONFLICTS IN MAINTAINING DRAINAGE.
7. THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT SHALL APPROVE ALL FINISH GRADING PRIOR TO PLACEMENT OF ANY PLANT MATERIAL.
8. CONTRACTOR SHALL IMMEDIATELY, UPON THE AWARD OF THE CONTRACT, ORDER, LOCATE AND PURCHASE (OR HAVE HELD) ALL PLANT MATERIAL REQUIRED BY THESE PLANS AND SPECIFICATIONS.
9. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE & LANDSCAPE ARCHITECT FOR OBSERVATION AT THE FOLLOWING TIMES:
   A. PRE-CONSTRUCTION MEETING.
   B. ROUGH GRADING AND DRAINAGE.
   C. HARDSCAPE AT TIME OF FINISHED STAKING AND LAYOUT.
   D. WIRING PRIOR TO BACKFILLING TRENCHES.
   E. IRRIGATION MAINLINE PRESSURE TEST.
   F. FINISH GRADING AND SOIL PREPARATION.
   G. IRRIGATION COVERAGE TEST.
   H. PLANT MATERIAL (WHEN DELIVERED) AND PLACEMENT APPROVAL.
   I. PROJECT CONSTRUCTION 90% COMPLETE (DEVELOP PUNCH LIST AND SUBMIT RED-LINE AS BUILT).
   J. 120-DAY PLANT MAINTENANCE PERIOD (THIS INSPECTION TO BE HELD WHEN THE PUNCH LIST ITEMS ARE COMPLETE AS DETERMINED BY LANDSCAPE ARCHITECT OR SUPERINTENDENT).
   K. FINAL WALK-THROUGH, ACCEPTANCE BY THE OWNER (CONTRACTOR TO SUBMIT FINAL APPROVED AS-BUILTS TO THE OWNER).
10. SOIL AMENDMENTS SPECIFIED ARE FOR BIDDING PURPOSES ONLY. ACTUAL TYPES AND QUANTITIES WILL BE BASED ON SOIL ANALYSIS PROVIDED BY CONTRACTOR.
    A. BID MIX FOR TURF AREAS SHALL BE THE FOLLOWING PER 1000 SQUARE FEET:
       - 6 CU YDS. NITROGEN STABILIZED ORGANIC AMENDMENT 'HUMIC COMPOST' BY AGRISERVICE OR APPROVED EQUAL
       - 40 LBS. GRO-POWER PLUS
       - 100 LBS. GYPSUM
       - SEE SPECIFICATIONS FOR ADDITIONAL TOPSOIL IMPORT REQUIREMENTS FOR TURF AREAS.
    B. BID MIX FOR SHRUB AREAS LESS THAN 4:1 SHALL BE THE FOLLOWING PER 1000 SQUARE FEET:
       - 40 LBS. GRO-POWER PLUS
       - 100 LBS. GYPSUM
       - SEE SPECIFICATIONS FOR ADDITIONAL TOPSOIL IMPORT REQUIREMENTS FOR TURF AREAS.
    C. PLANTING AND BACKFILL MIX FOR PLANT PITS AND TABLETS SHALL BE AS FOLLOWS PER CUBIC YARD:
       - 70% OF NATIVE SOIL
       - 30% NITROGEN STABILIZED ORGANIC AMENDMENT 'HUMIC COMPOST' BY AGRISERVICE OR APPROVED EQUAL
       - 16 LBS GRO-POWER PLUS
       - 2 LBS. FERROUS SULFATE

       THOROUGHLY BLEND THE ABOVE AT A CENTRAL OFF-SITE LOCATION PRIOR TO USE. THE FERROUS SULFATE SHOULD NOT CONTACT PAVING SURFACES AS STAINING WILL RESULT.

    D. SEE PLANTING SPECIFICATIONS FOR PRE-EMERGENT TREATMENT OF SOIL.
11. UNDERPLANT ALL TREES WITH THE ADJACENT SHRUB AND/ OR GROUNDCOVER AS INDICATED BY THE PLANS. GROUNDCOVER SHALL BE INSTALLED WITH TRIANGULAR SPACING TO WITHIN 12" OF TREE OR SHRUB STEMS.
12. PLANT SYMBOLS TAKE PRECEDENCE OVER PLANT QUANTITIES SPECIFIED. CONTRACTOR SHALL VERIFY PLANT TOTALS FOR BID PURPOSES.
13. PRIOR TO PLANTING, IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL AND ALL PLANTING AREAS SHALL BE THOROUGHLY WATERED.
14. IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPAIRED AND/OR REPLACED IN KIND AND EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE OWNER WITHIN 30 DAYS OF DAMAGE. PLANT MATERIAL MAY BE REJECTED AT ANY TIME BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT DUE TO CONDITION, FORM OR DAMAGE BEFORE OR AFTER PLANTING.
15. TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN 5 FEET OF IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL. ROOTBARRIER SHALL BE INSTALLED PARALLEL TO HARDSCAPE SURFACE FOR A DISTANCE OF 10' FROM THE CENTER LINE OF THE TREE TRUNK IN BOTH DIRECTIONS, OR AS INDICATED ON PLAN.
16. PLANTING TABLETS SHALL BE GRO-POWER PLANTING TABLETS 20-10-5 PER GB/WB (12 MONTH SLOW RELEASE FORMULATION).
17. ALL PLANTING BEDS SHALL HAVE 3" (THREE INCH) THICK MULCH LAYER. "MULCH" SHALL BE 'FOREST FINES MULCH' FROM AGRISERVICE OR APPROVED EQUAL. PHONE: (800) 262-4167. RATES AS SPECIFIED ON PLANS, FREE OF STICKS, STONES, CLAY OR OTHER FOREIGN MATERIAL. CONTRACTOR SHALL SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
18. ALL REQUIRED PLANTING AREAS AND ALL EXPOSED SOIL AREAS WITHOUT VEGETATION SHALL BE COVERED WITH MULCH TO A MINIMUM DEPTH OF 3 INCHES, EXCLUDING SLOPES REQUIRING REVEGETATION PER SDMC 142 0411.
19. AT COMPLETION OF THE 120 DAY ESTABLISHMENT PERIOD, APPLY COMMERCIAL FERTILIZER (15-15-15) AT 2LBS/1000SF TO TURF AREAS ONLY AND WATER IMMEDIATELY WITH A THOROUGH IRRIGATION CYCLE.
20. COORDINATE PLACEMENT OF TREES WITH SITE LIGHTING. CANOPY OF TREE AT ULTIMATE SIZE SHALL NOT BE PLACED SO AS TO CONFLICT WITH LIGHTING THROW ALONG WALKWAYS. ADJUSTMENTS TO TREE PLACEMENT SHALL ONLY OCCUR WITH APPROVAL FROM THE LANDSCAPE ARCHITECT.
21. THE CONTRACTOR SHALL BID THE FOLLOWING PLANT MATERIAL IN ADDITION TO THE QUANTITIES LISTED IN THE PLANT LEGEND OR SHOWN ON THE PLAN:
    - (1) 60" BOX TREE
    - (2) 48" BOX TREE
    - (20) 15 GAL SHRUBS
    - (40) 5 GAL SHRUBS
    - (100) 1 GAL SHRUBS / GROUND COVER
22. - MINIMUM TREE SEPARATION DISTANCE:
    -TRAFFIC SIGNALS/STOP SIGNS - 20 FEET
    -UNDERGROUND UTILITY LINES - 5 FEET (10' FOR SEWER)
    -ABOVE GROUND UTILITY STRUCTURES - 10 FEET
    -DRIVEWAY (ENTRIES) - 10 FEET
    -INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET
23. MAINTENANCE: ALL REQUIRED LANDSCAPE AREAS SHALL BE MAINTAINED BY THE OWNER. LANDSCAPE AND IRRIGATION AREAS IN THE PUBLIC RIGHT-OF-WAY SHALL BE MAINTAINED BY THE OWNER. THE LANDSCAPE AREAS SHALL BE MAINTAINED FREE OF DEBRIS AND LITTER, AND ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION. DISEASED OR DEAD PLANT MATERIAL SHALL BE SATISFACTORILY TREATED OR REPLACED PER THE CONDITIONS OF THE PERMIT.
24. A MINIMUM ROOT ZONE OF 40 SF IN AREA SHALL BE PROVIDED FOR ALL TREES. THE MINIMUM DIMENSION FOR THE AREA SHALL BE 5 FEET, PER SDMC 142.0403(B)(5).
25. FINAL LOCATION OF ALL TRESS SHALL BE VERIFIED BY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO EXCAVATION OF PLANTING PITS.
26. ALL PLANTERS SHALL RECEIVE IRRIGATION AND DRAINAGE.
27. THE LANDSCAPE ARCHITECT SHALL APPROVE ALL PLANTING AREAS PRIOR TO THE INSTALLATION OF ANY MATERIALS. THE LANDSCAPE CONTRACTOR SHALL LAYOUT ALL PLANT MATERIAL IN THE FIELD PER THE PLANTING PLANS FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE EXCAVATING PITS. MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
28. EXISTING TREES TO REMAIN ON SITE WITHIN THE AREA OF WORK WILL BE PROTECTED IN PLACE. THE FOLLOWING PROTECTION MEASURES WILL BE PROVIDED.
    A. A BRIGHT YELLOW OR ORANGE TEMPORARY FENCE WILL BE PLACED AROUND EXISTING TREES AT THE DRIP LINE.
    B. STOCKPILING, TOPSOIL DISTURBANCE, VEHICULAR USE, AND MATERIAL STORAGE OF ANY KIND IS PROHIBITED WITHIN THE DRIP LINE.
    C. A TREE WATERING SCHEDULE WILL BE MAINTAINED AND DOCUMENTED DURING CONSTRUCTION.
    D. ALL DAMAGED TREES WILL BE REPLACED WITH ONE OF EQUAL OR GREATER SIZE.
29. ALL LANDSCAPE AND IRRIGATION SHALL CONFORM TO THE STANDARDS OF THE CITY-WIDE LANDSCAPE REGULATIONS AND THE REDWOOD CITY LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS AND ALL OTHER LANDSCAPE RELATED CITY AND REGIONAL STANDARDS.

TREE PLANTING:

30. EACH TREE LOCATION SHALL BE STAKED IN THE FIELD PER THE TREE PLANS BY THE LANDSCAPE CONTRACTOR USING MINIMUM 8' LONG STAKES. THE TOP 2' OF EACH STAKE SHALL BE PAINTED WITH A DIFFERENT COLOR OF PAINT FOR EACH TREE SPECIES. STAKE LOCATIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE EXCAVATION OF PLANTING PITS. STAKES SHALL BE LOCATED IN THE FIELD BY THE LANDSCAPE CONTRACTOR FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THEIR ARRIVAL AT THE SITE.
31. PROVIDE 3'-0" MULCH RING AROUND ALL TREES IN TURF.
32. TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6' ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16' ABOVE THE GRADE OF THE TRAVEL WAY PER THE MUNICIPAL CODE 142.0403(b)(10).

SHRUB LAYOUT NOTE:

33. ALL SHRUBS ARE TO BE SPOTTED IN THE FIELD PER THE SHRUB PLAN BY THE LANDSCAPE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE EXCAVATION OF THE PLANTING PITS.
34. GROUND COVER PLANTS SHALL BE WELL ROOTED WITH RUNNERS MINIMUM 4" LONG.
35. REMOVE ALL ESPALIERS FROM TRELLIS AND ATTACH TO WALL OR FENCE WITH VINE GUYS.
36. TREE LOCATIONS SHALL BE STAKED IN THE FIELD PRIOR TO STORM DRAIN INSTALLATION AND REVIEWED BY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO VERIFY GENERAL DESIGN CONFORMANCE. STORM DRAIN LOCATIONS SHALL BE MODIFIED IN THE FIELD TO ACCOMMODATE THE TREE LOCATIONS AND MAINTAIN THE REDWOOD CITY REQUIRED MINIMUM SEPARATION.
37. PERCOLATION TEST SHALL BE CONDUCTED, AND MUST COMPLY WITH "GREENBOOK" "CLASS A" TOPSOIL PERMEABILITY RATE REQUIREMENTS. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IF PLANTING PITS DO NOT PERCOLATE.

PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT	DETAIL	R
	ALOE X `GOLIATH`	GOLIATH ALOE	24" BOX	8/2LP-500	
	ALOE X `HERCULES`	HERCULES ALOE	24" BOX	4/2LP-500	
	CERCIS OCCIDENTALIS	WESTERN REDBUD MULTI-TRUNK	24" BOX	2,6/2LP-500	
	CITRUS KUMQUAT 'NAGAMI'	NAGAMI KUMQUAT	24" BOX	1,3,6/2LP-500	
	CITRUS X LIMON `DWARF MEYER`	MEYER LEMON	24" BOX		
	CITRUS X SINENSIS `DWARF VALENCIA`	DWARF VALENCIA ORANGE	24" BOX		
	ERYTHRINA CORALLOIDES MULTI-TRUNK	CORAL TREE	48" BOX		M
	HANDROANTHUS IMPETIGINOSUS	PINK TRUMPET TREE	48" BOX		
	LOPHOSTEMON CONFERTUS	BRISBANE BOX	24" BOX	2,6/2LP-500	
	PARKINSONIA X `DESERT MUSEUM`	DESERT MUSEUM PALO VERDE	24" BOX	8/2LP-500	
	PARKINSONIA X `DESERT MUSEUM`	DESERT MUSEUM PALO VERDE	36" BOX	1,3,6/2LP-500	
	PINUS CANARIENSIS	CANARY ISLAND PINE	24" BOX	2,6/2LP-500	

TREES	BOTANICAL NAME	COMMON NAME	CONT	DETAIL
PG	PODOCARPUS GRACILIOR * ADDITIVE ALTERNATE PLANT	FERN PINE	36" BOX	1,3,6/2LP-500
	PRUNUS CAROLINIANA	CAROLINA LAUREL CHERRY	36" BOX	
	QUERCUS AGRIFOLIA	COAST LIVE OAK	60" BOX	

PLANTING LEGEND CONTINUED ON SHEET 2LP-002

2.3

GREENWALL PLANTING

38. ALL VGM LIVING WALL COMPONENTS ARE TO BE COORDINATED WITH TOURNESOL SITE WORKS,(800) 542-2282, CONTACT: JON WILLINGHAM, JWILLINGHAM@TOURNESOLSITEWORKS. SPACING OF TUBULAR STEEL POSTS TO BE COORDINATED WITH TOURNESOL'S VGM RAIL SPACING RECOMMENDATIONS
39. PLANT MATERIAL FOR LIVING WALL MODULES SHALL BE CONTRACT GROWN PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH JIM MUMFORD OF GREENSCAPED BUILDINGS IN COORDINATION WITH TOURNESOL SITE WORKS AND ALLOW A MINIMUM OF 2 MONTHS GROWING TIME TO ESTABLISH PLANT MATERIAL PRIOR TO INSTALLATION. GREENSCAPED BUILDINGS SHALL PERFORM INSTALLATION OF GREEN WALL PANELS, PLANTS, AND IRRIGATION SYSTEM. GREENSCAPED BUILDINGS, PHONE: 858-576-9300.

SEE SHEET 2LP-001-002 FOR LANDSCAPE PLANTING LEGEND & NOTES
SEE SHEET 2LP-003 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LP-004 FOR LANDSCAPE CALCULATIONS
SEE SHEET 2LP-100-2LP-107 FOR LANDSCAPE PLANTING PLANS
SEE SHEET 2LP-500 FOR LANDSCAPE PLANTING DETAILS

GENE THEORY -
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VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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REV NO.	DATE ISSUED	REASON
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08.08.17

Sheet Title
LANDSCAPE PLANTING NOTES & LEGEND

Sheet No.
2LP-001

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

PLANT SCHEDULE

SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	DETAIL
△	GAMBELIA SPECIOSA 'FIRECRACKER'	SHOWY ISLAND SNAP DRAGON	5 GALLON	4/2LP-500
•	PRUNUS CAROLINIANA `COMPACTA`	CAROLINA CHERRY	15 GALLON	
○	RHAMNUS CALIFORNICA `EVE CASE`	CALIFORNIA COFFEEBERRY	5 GALLON	

SUCCULENTS	BOTANICAL NAME	COMMON NAME	CONT	DETAIL
	AGAVE AMERICANA `MEDIO-PICTA ALBA`	STRIPED CENTURY PLANT	15 GALLON	4,5/2LP-500
	AGAVE ATTENUATA	AGAVE	15 GALLON	4,5/2LP-500
	AGAVE DESMETTIANA 'VARIEGATA'	VARIEGATED AGAVE	5 GALLON	4,5/2LP-500
	AGAVE LOPHANTHA `QUADRICOLOR`	QUADRICOLOR CENTURY PLANT	5 GALLON	4,5,9/2LP-500
	AGAVE X `BLUE FLAME`	BLUE FLAME AGAVE	5 GALLON	4,5,9/2LP-500
	AGAVE X `BLUE GLOW`	BLUE GLOW AGAVE	15 GALLON	4,5,9/2LP-500
	ALOE PLICATILIS	FAN ALOE	5 GALLON	4,5/2LP-500
	ALOE X `ERIK THE RED`	ERIK THE RED SUNBIRD ALOE	1 GAL	4,5,9/2LP-500
	ALOE X `MOONGLOW`	MOONGLOW ALOE	5 GAL	4,5,9/2LP-500
	CALANDRINIA SPECTABILIS	PINK CALANDRINIA	5 GAL	4,5,9/2LP-500
	ECHEVERIA X `AFTERGLOW`	AFTERGLOW ECHEVERIA	1 GALLON	4,5/2LP-500
	ECHINOCACTUS GRUSONII	GOLDEN BARREL CACTUS	5 GALLON	4,5,9/2LP-500
	HESPERALOE PARVIFLORA	RED YUCCA	5 GALLON	4,5,9/2LP-500
	PACHYCEREUS MARGINATUS	TOTEM POLE CACTUS	15 GALLON	4,5,9/2LP-500
	SEDUM MORGANIANUM	BURRO`S TAIL	1 GALLON	4,5/2LP-500
	SENECIO DECARYI	MADAGASCAR SENECIO	5 GALLON	4,5/2LP-500

SHRUB AREAS	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY	DETAIL
Cx	CISTUS X PURPUREUS	ORCHID ROCKROSE	5 GAL	48" o.c.	7,043 SF	4,5/2LP-500
Dt	DIANELLA TASMANICA `VARIEGATA`	FLAX LILY	1 GAL	24" o.c.	322 SF	
Me	MAHONIA EURYBRACTEATA `SOFT CARESS`	MAHONIA SOFT CARESS	5 GAL	48" o.c.	642 SF	
Ml	MELAMPODIUM LEUCANTHUM	BLACKFOOT DAISY	1 GAL	24" o.c.	1,294 SF	
Sc	SALVIA CLEVELANDII `WINIFRED GILLMAN`	CLEVELAND SAGE	5 GAL	36" o.c.	517 SF	
Sl	SALVIA LEUCANTHA `SANTA BARBARA`	MEXICAN BUSH SAGE	1 GAL	36" o.c.	3,107 SF	
Vl	VIGUIERA LACINIATA	COUNTY VIGUIERA	1 GAL	24" o.c.	1,031 SF	

CACTI/SUCCULENTS	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY	DETAIL
As	ALOE STRIATA	CORAL ALOE	5 GAL	24" o.c.	328 SF	4,5/2LP-500
Er	EUPHORBIA RIGIDA	YELLOW SPURGE	1 GAL	24" o.c.	365 SF	
Sd	SENECIO DECARYI	MADAGASCAR SENECIO	1 GAL	30" o.c.	128 SF	
Ss	SENECIO SERPENS	BLUE CHALKSTICKS	1 GAL	24" o.c.	1,243 SF	

GRASSES	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY	DETAIL
Cp	CAREX PANSA	SANDDUNE SEDGE	1 GAL	18" o.c.	1,968 SF	4,5/2LP-500
Jp	JUNCUS PATENS `ELK BLUE`	SPREADING RUSH	1 GAL	24" o.c.	929 SF	
Lc	LEYMUS CONDENSATUS `CANYON PRINCE`	NATIVE BLUE RYE	1 GAL	24" o.c.	4,581 SF	
Ms1	MISCANTHUS SINENSIS `ADAGIO`	ADAGIO EULALIA GRASS	5 GAL	48" o.c.	5,461 SF	
Mc	MUHLENBERGIA CAPILLARIS	PINK MUHLY	1 GAL	36" o.c.	3,387 SF	
Md	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	18" o.c.	1,171 SF	
Mr	MUHLENBERGIA RIGENS	DEER GRASS	5 GAL	36" o.c.	5,507 SF	
Sa	SESLERIA AUTUMNALIS	AUTUMN MOOR GRASS	1 GAL	18" o.c.	18,016 SF	

GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY	DETAIL
Bp	BACCHARIS PILULARIS `TWIN PEAKS`	TWIN PEAKS COYOTE BRUSH	1 GAL	36" o.c.	12,576 SF	7/2LP-500
Cs	CAREX SPISSA	SEDGE	1 GAL	18" o.c.	2,081 SF	
Cm	CARISSA MACROCARPA `GREEN CARPET`	GREEN CARPET NATAL PLUM	FLATS	24" o.c.	920 SF	
Ss2	SEDUM SPURIUM `TRICOLOR`	TRICOLOR DRAGON`S BLOOD SEDUM	FLATS	12" o.c.	220 SF	

GREEN WALL	BOTANICAL NAME	COMMON NAME	CONT	DETAIL
	GRAPTOPETALUM PARAGUAYENSE	GHOST PLANT	FLATS	7/2LC-506 1/2LP-107
	SENECIO SERPENS 'MINI BLUE CHALKSTICKS'	'MINI BLUE CHALKSTICKS' SENECIO	FLATS	
	SEMPERVIVUM 'GREEN WHEEL'	'GREEN WHEEL' HENS AND CHICKS	FLATS	
	CRASSULA PUBESCENS SSP. RADICANS	SMALL RED CARPET	FLATS	
	PORTULACARIA AFRA MINIMA	DWARF ELEPHANT FOOD	FLATS	
	SEDUM NUSSBAUMERIANUM	COPPERTONE STONECROP	FLATS	

		CONT
	SLOPE 1 NATIVE FESCUE MIX HYDROSEED AVAILABLE THROUGH S&S SEEDS	HYDROSEED
	COMMUNITY GARDEN -	
	TURF GN-1 HYBRID BERMUDA SOD	SOD
	TURF BLOCK CAREX PRAEGRACILIS / SLENDER SEDGE	PLUGS

2.3

SEE SHEET 2LP-001-002 FOR LANDSCAPE PLANTING LEGEND & NOTES
SEE SHEET 2LP-003 FOR LANDSCAPE OVERALL PLAN
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DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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2LP-100

2LP-101

2LP-102

2LP-103

2LP-104

2LP-105

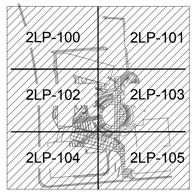
GARAGE PER PTS 553565

BUILDING 8959

BUILDING 8929

2.3

SEE SHEET 2LP-001-002 FOR LANDSCAPE PLANTING LEGEND & NOTES
SEE SHEET 2LP-003 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LP-004 FOR LANDSCAPE CALCULATIONS
SEE SHEET 2LP-100-2LP-107 FOR LANDSCAPE PLANTING PLANS
SEE SHEET 2LP-500 FOR LANDSCAPE PLANTING DETAILS



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SCALE : 1" = 30'-0"

NORTH

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE PLANTING OVERALL SITE PLAN

Sheet No.
2LP-003

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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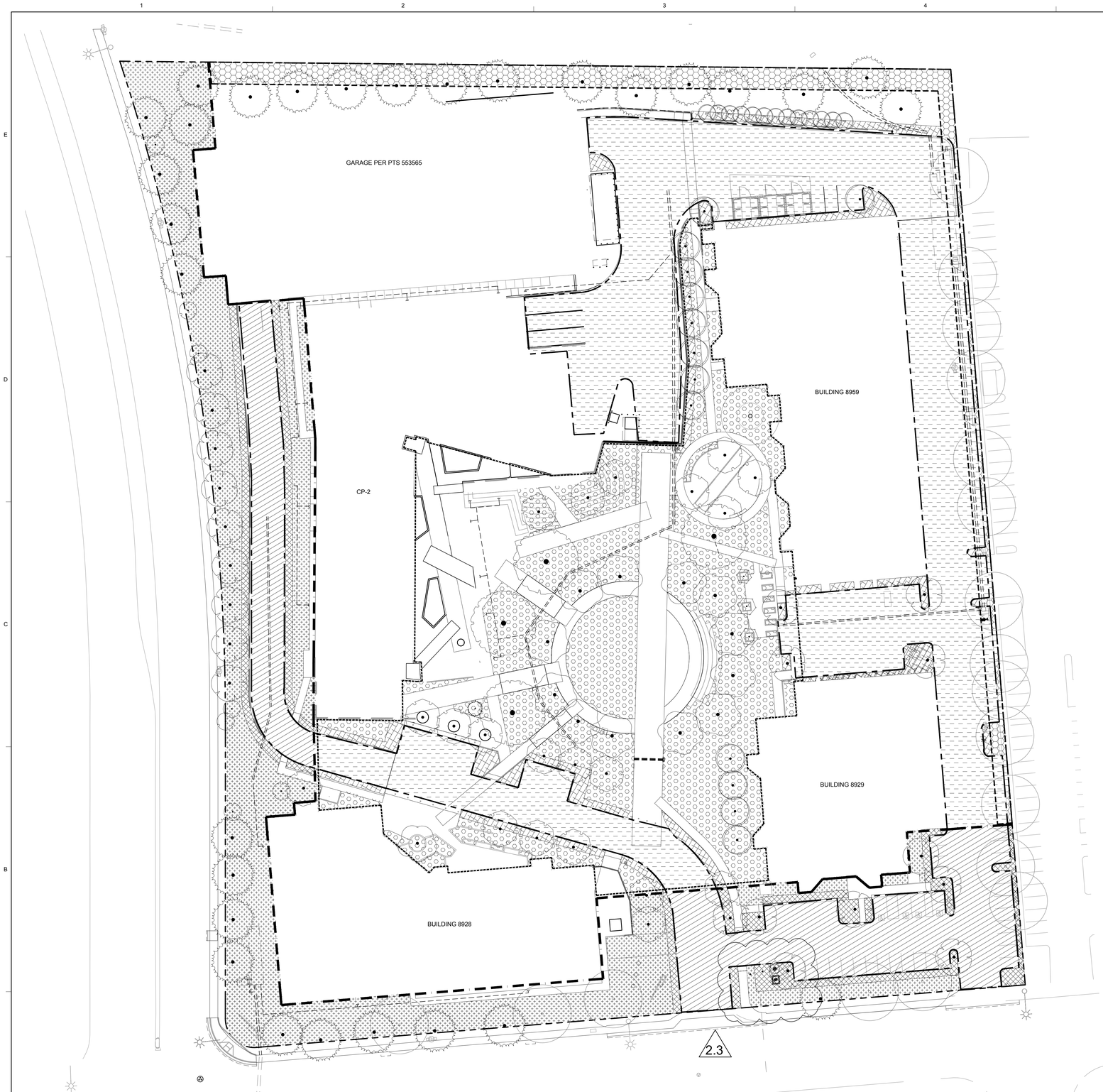

LANDSCAPE AREAS

SYMBOL	NOTES
	VUA INSIDE SY
	VUA OUTSIDE SY
	VUA PLANTING INSIDE SY
	VUA PLANTING OUTSIDE SY
	REMAINING YARD
	STREET YARD
	INTERIOR COURTYARD

STREET YARD BOUNDARY
REMAINING YARD BOUNDARY
INTERIOR COURTYARD BOUNDARY
VEHICULAR USE AREA BOUNDARY
PROPERTY LINE / R.O.W.

LANDSCAPE CALCULATIONS

STREET YARD					
TOTAL AREA	69,086				
PLANTING AREA REQUIRED (SQ. FT.) (25% OF TOTAL AREA)	17,272	PLANTING AREA PROVIDED (SQ. FT.) ----->	34,240	EXCESS AREA PROVIDED (SQ. FT.) ----->	22,485
PLANTING POINTS REQUIRED (.05 PTS/SQ. FT. OF TOTAL AREA)	3,454	PLANT POINTS PROVIDED - TO BE ACHIEVED WITH TREES ONLY	4,880	EXCESS POINTS PROVIDED ----->	1,426

REMAINING YARD					
TOTAL AREA	12,722				
PLANTING AREA REQUIRED (SQ. FT.) (30% OF TOTAL AREA)	3,817	PLANTING AREA PROVIDED (SQ. FT.) ----->	9,342	EXCESS AREA PROVIDED (SQ. FT.) ----->	5,526
PLANTING POINTS REQUIRED (.05 PTS/SQ. FT. OF TOTAL AREA)	636	PLANTING POINTS PROVIDED ----->	3,420	EXCESS POINTS PROVIDED ----->	2,784

INTERIOR COURTYARD					
TOTAL AREA	84,808				
PLANTING AREA PROVIDED (SQ. FT.)	35,411	PLANTING AREA PROVIDED (% OF TOTAL AREA)	42%		
PLANTING POINTS REQUIRED (.05 PTS/SQ. FT. OF TOTAL AREA)	4,240	PLANTING POINTS PROVIDED ----->	13,787	EXCESS POINTS PROVIDED ----->	9,547

VEHICULAR USE AREA					
TOTAL AREA	78,005				
VUA INSIDE STREET YARD	21,810				
VUA OUTSIDE STREET YARD	56,195				
PLANTING AREA REQUIRED INSIDE STREET YARD (5% TOTAL)	1,091	PLANTING AREA PROVIDED INSIDE STREET YARD ----->	6,871	EXCESS AREA PROVIDED ----->	5,780
PLANTING AREA REQUIRED OUTSIDE STREET YARD (3% TOTAL)	1,686	PLANTING AREA PROVIDED OUTSIDE STREET YARD ----->	7,034	EXCESS AREA PROVIDED ----->	5,348
PLANTING POINTS REQUIRED INSIDE STREET YARD (5% TOTAL)	1,091	PLANTING POINTS PROVIDED INSIDE STREET YARD ----->	3,112	PLANTING POINTS PROVIDED WITH TREES ----->	830
PLANTING POINTS REQUIRED OUTSIDE STREET YARD (3% TOTAL)	1,686	PLANTING POINTS PROVIDED OUTSIDE STREET YARD ----->	2,499	PLANTING POINTS PROVIDED WITH TREES ----->	1,280

2.3

NOTES:

1. LANDSCAPE CALCULATIONS BASED UPON REDWOOD CITY LANDSCAPE REGULATIONS, CHAPTER 14, ARTICLE 2, DIVISION 4 OF LAND DEVELOPMENT CODE.
2. SEE PLANTING PLANS FOR FULL PLANTING SCHEDULE.
3. A MINIMUM OF ONE 24" BOX TREE SHALL BE LOCATED WITHIN 30' OF EACH PARKING SPACE.
4. TREE GRATES SHALL PROVIDE A MINIMUM OF 40 SQ.FT. PLANTING AREA, WITH NO DIMENSION LESS THAN 5'.
5. LANDSCAPE CALCULATIONS ARE BASED OFF OF PROPOSED SITE IMPROVEMENTS WITHIN THE PROPERTY LINE / R.O.W. EXISTING LANDSCAPE AREA WITHIN THE STREET R.O.W. ARE NOT INCLUDED IN THESE CALCULATIONS.

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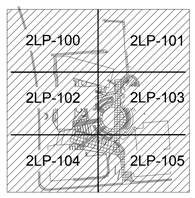
SEE SHEET 2LP-100-2LP-107 FOR LANDSCAPE PLANTING PLANS
SEE SHEET 2LP-500 FOR LANDSCAPE PLANTING DETAILS



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SCALE : 1" = 30'-0"

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CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE CALCULATIONS

Sheet No.
2LP-004

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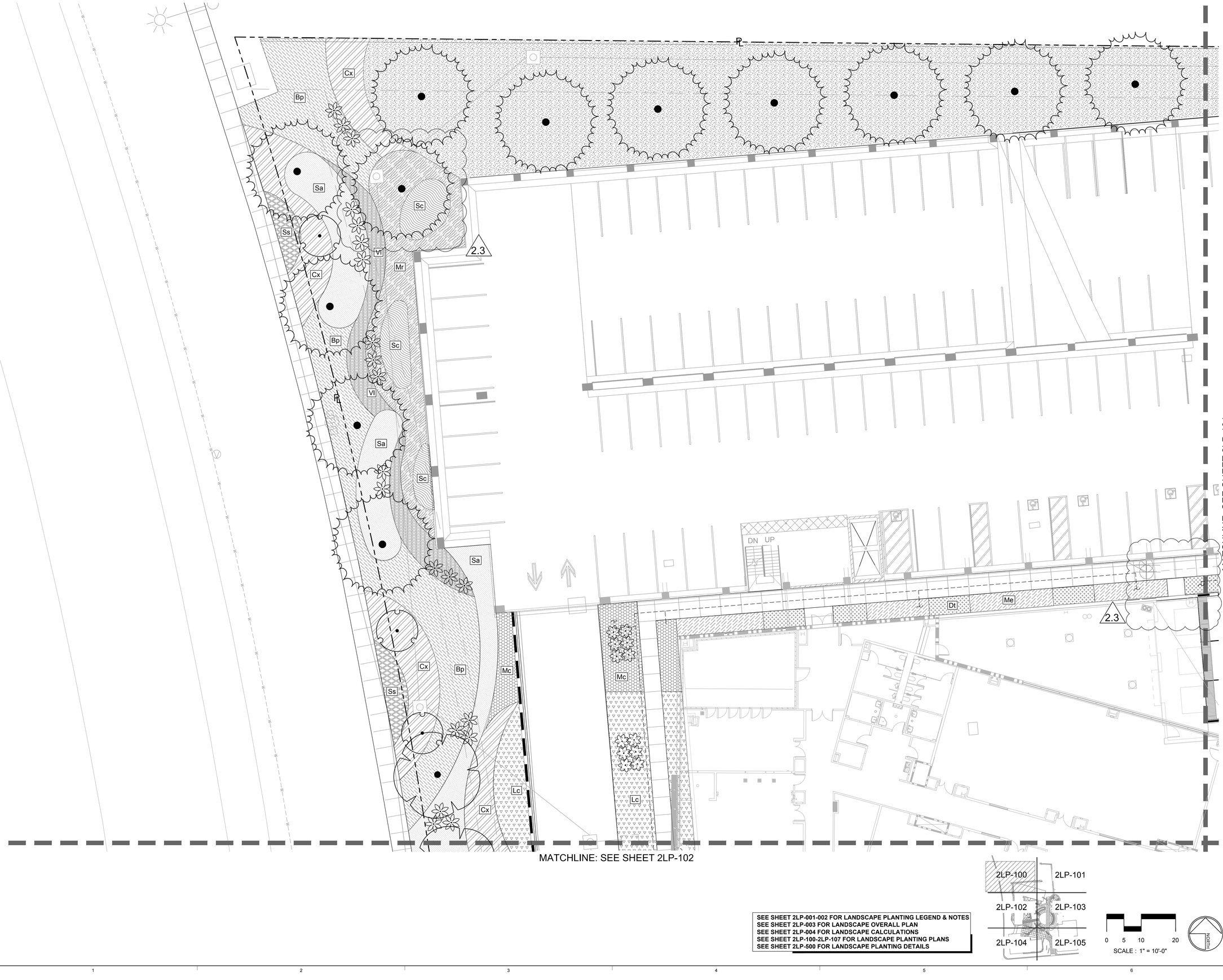

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CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE PLANTING PLAN

Sheet No.
2LP-100

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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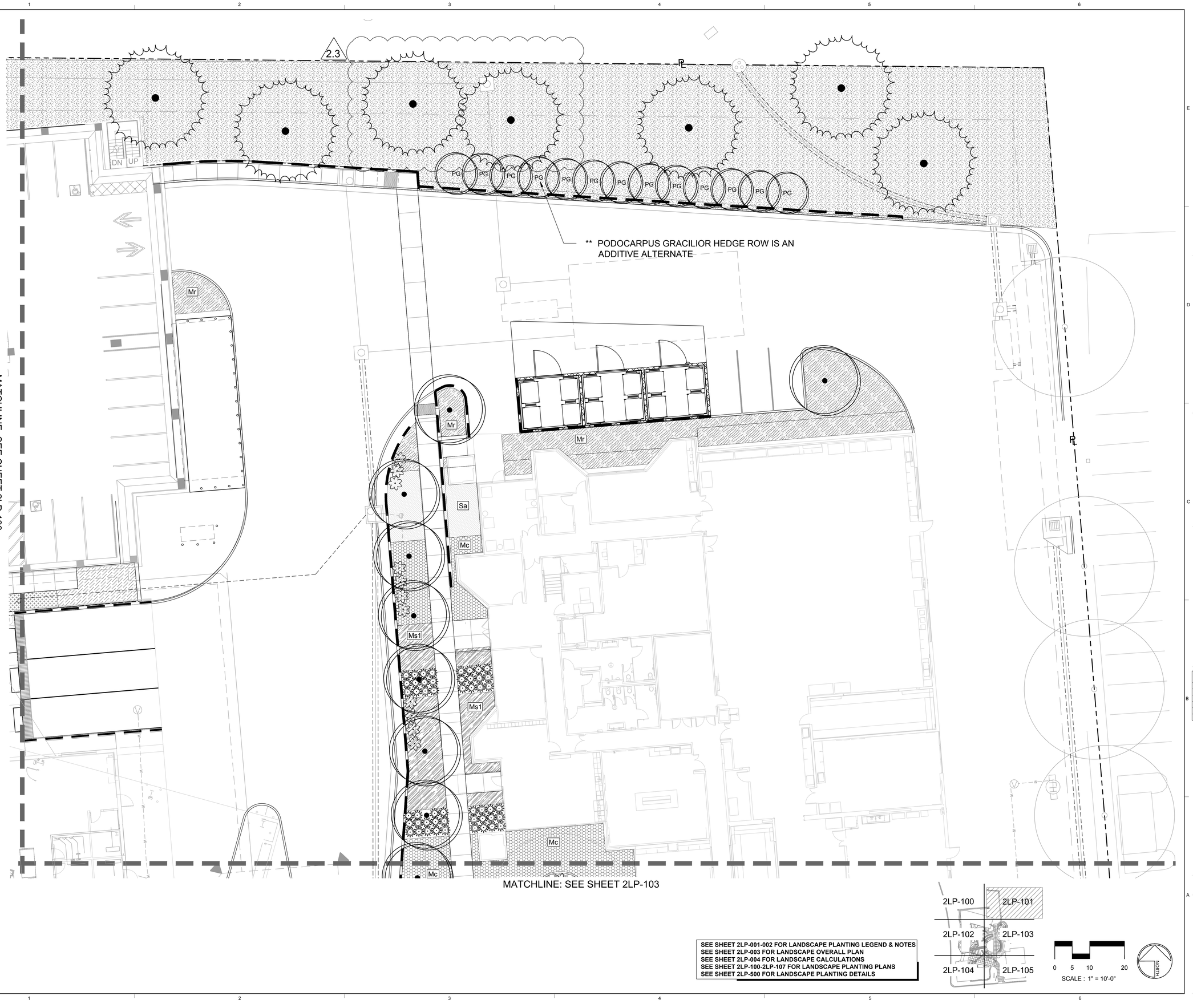

SEE SHEET 2LP-001-002 FOR LANDSCAPE PLANTING LEGEND & NOTES
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Sheet Title
LANDSCAPE PLANTING PLAN

Sheet No.
2LP-101

DPR Issued Sheet 2017-11-20
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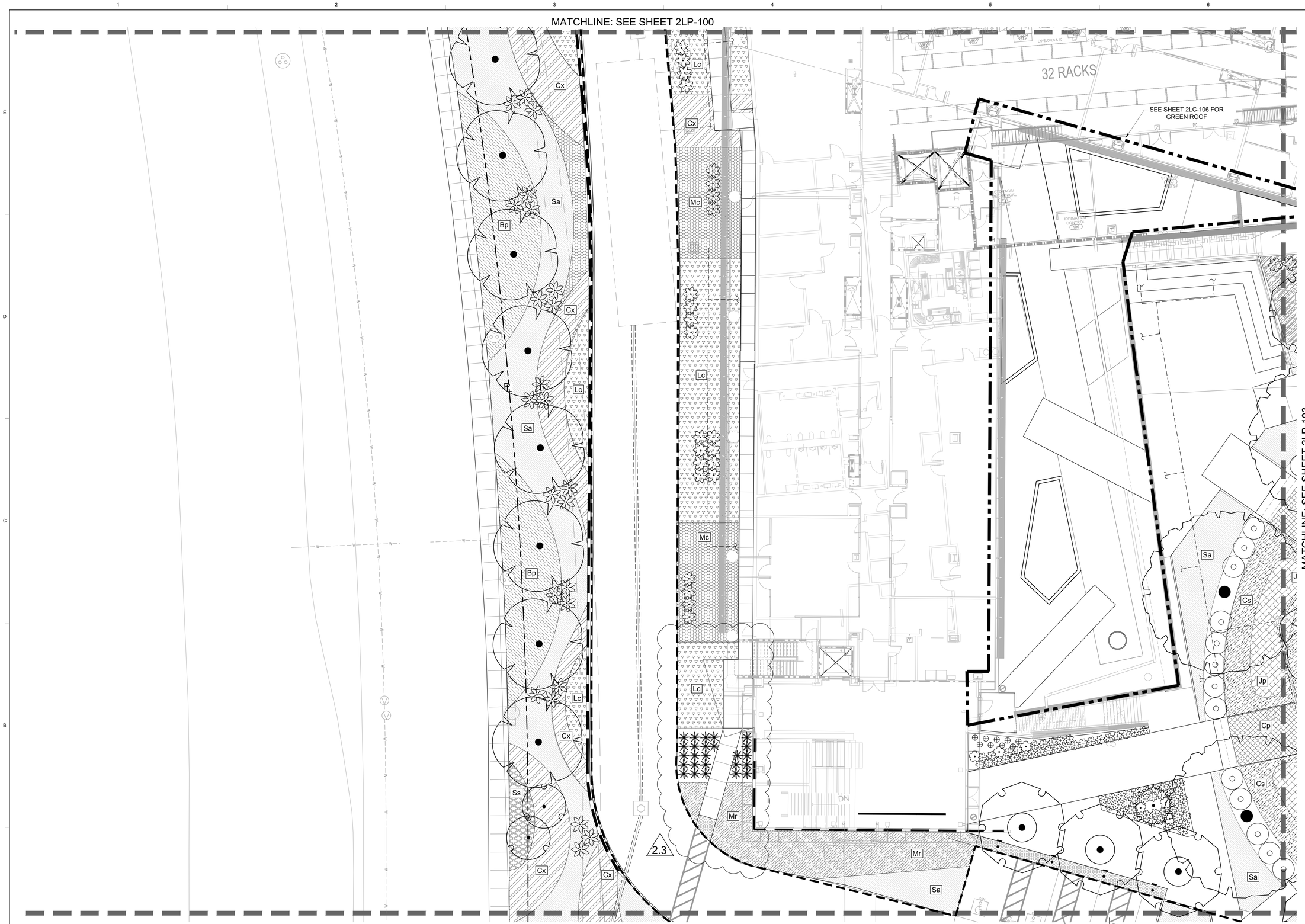

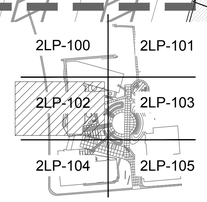

SEE SHEET 2LP-001-002 FOR LANDSCAPE PLANTING LEGEND & NOTES
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0 5 10 20
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CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE PLANTING PLAN

Sheet No.
2LP-102

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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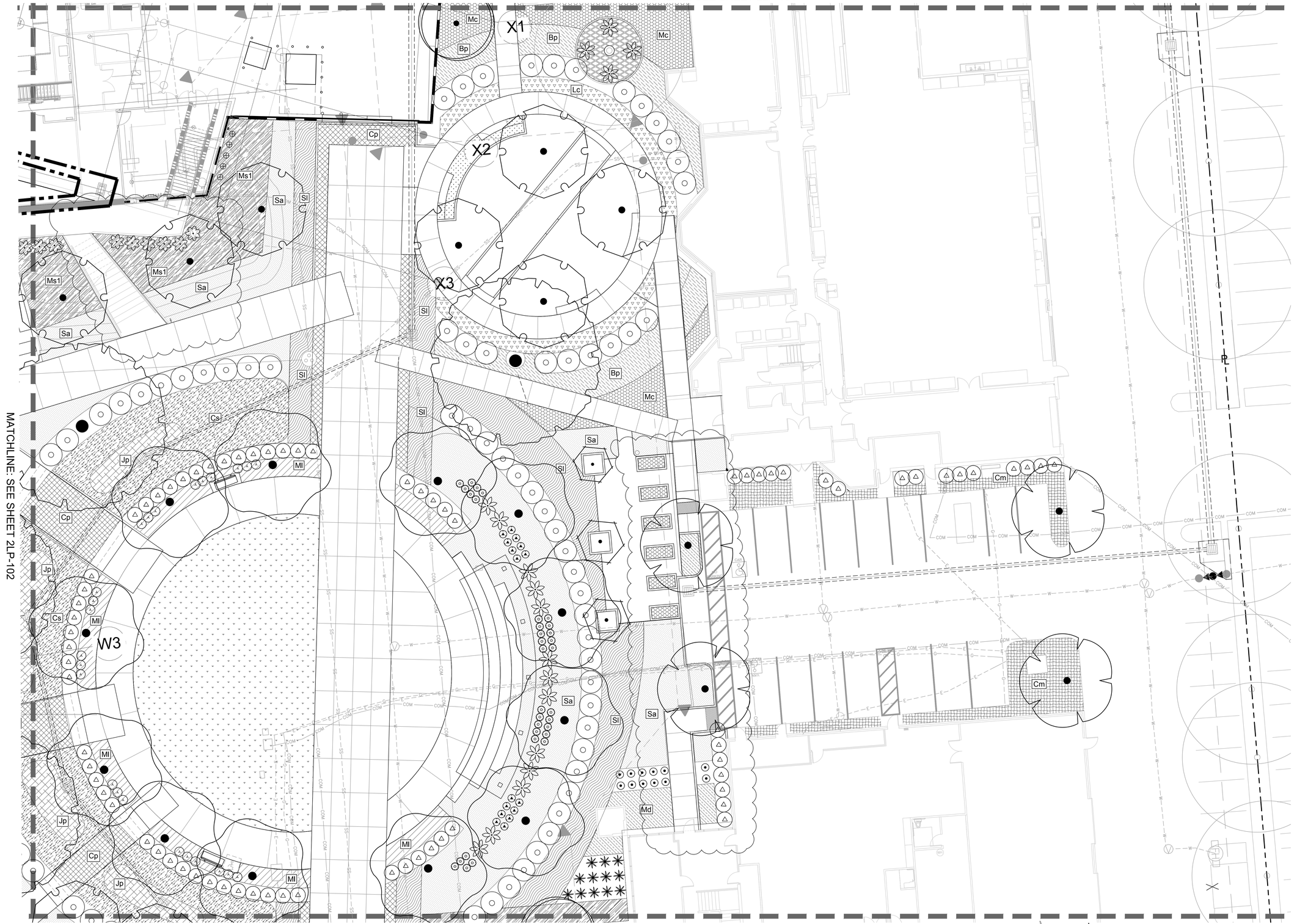
MATCHLINE: SEE SHEET 2LP-101

MATCHLINE: SEE SHEET 2LP-102

MATCHLINE: SEE SHEET 2LP-105



2.3

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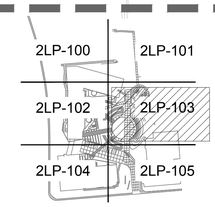

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CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE PLANTING PLAN

Sheet No.
2LP-103

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MATCHLINE: SEE SHEET 2LP-102

MATCHLINE: SEE SHEET 2LP-105

401

301 302 302.2 303 303.1 304 305 306

2.3

Sa Cx Ss Sc Ms1 Mr Vl Bp Lc Ss2

SEE SHEET 2LP-001-002 FOR LANDSCAPE PLANTING LEGEND & NOTES
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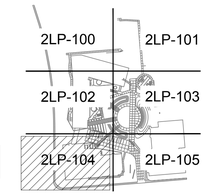

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CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE PLANTING PLAN

Sheet No.
2LP-104

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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MATCHLINE: SEE SHEET 2LP-104

MATCHLINE: SEE SHEET 2LP-103

Cs Sl Cp Ms1 Cx Ms1 Cp Sl Ms1 Cx Lc Sl Bp Bp Md Md Cx Sa Sa Cx Sa Cx Sl Cp Ml Sa Ms1 Cx Bp Bp Sa Sa Bp

2.3

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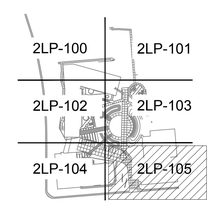

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CITY SUBMITTAL
08.08.17

Sheet Title
LANDSCAPE PLANTING PLAN

Sheet No.
2LP-105

DPR Issued Sheet 2017-11-20
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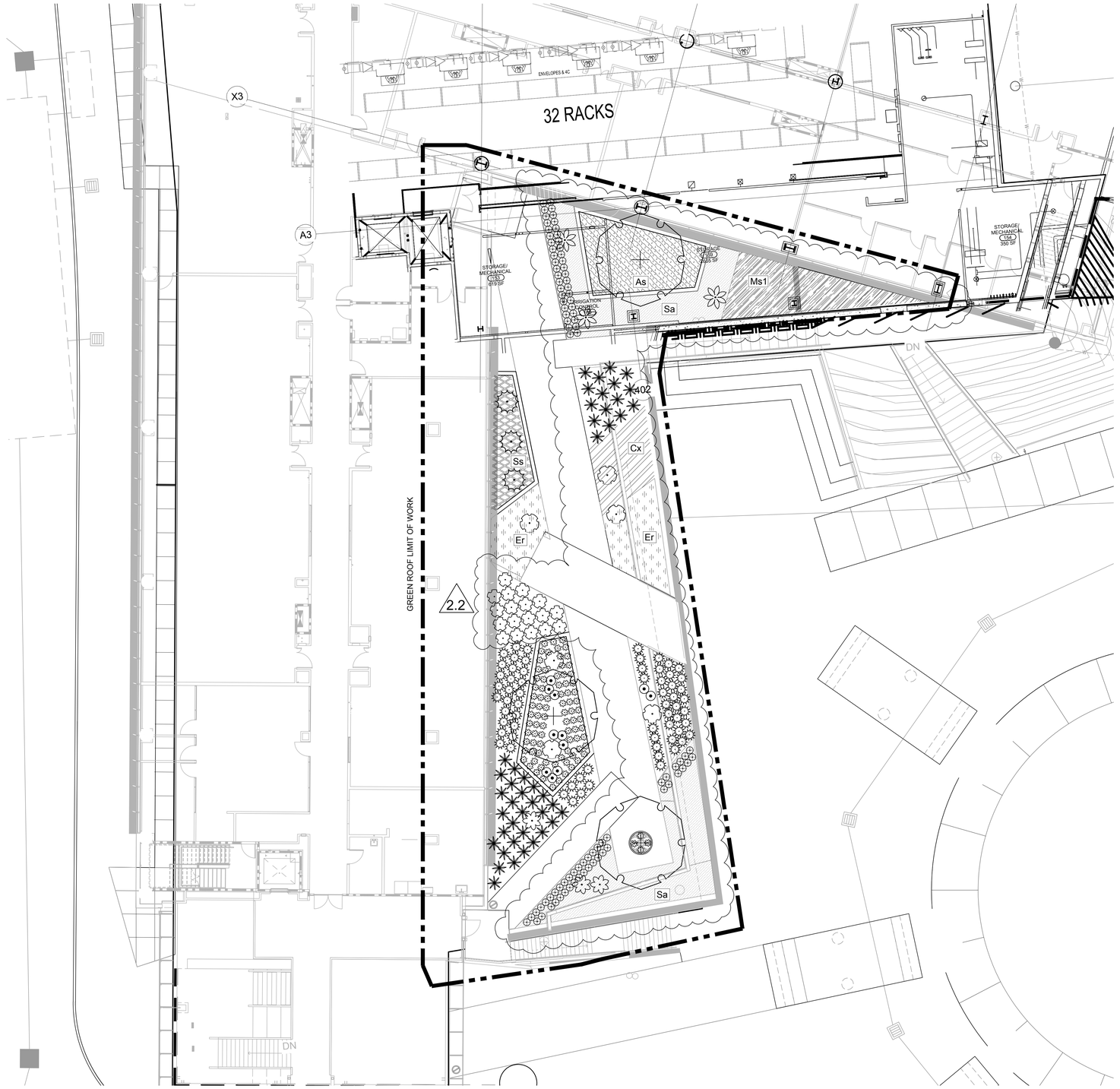

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2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LANDSCAPE PLANTING PLAN - GREEN ROOF

Sheet No.
2LP-106

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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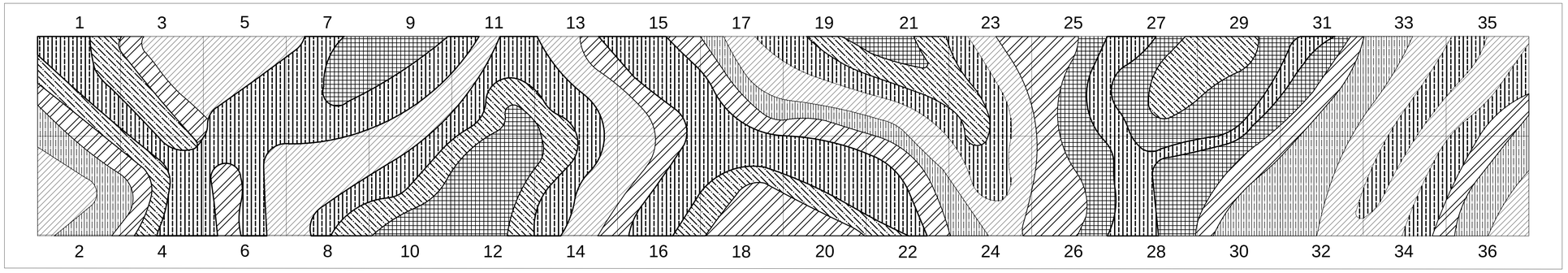


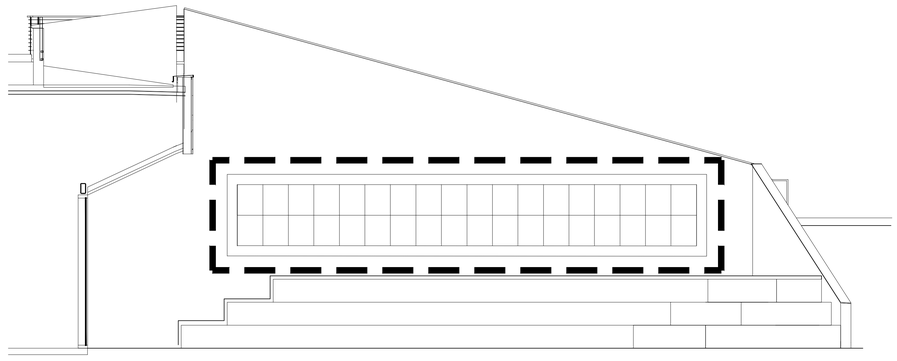
1 GREEN WALL PLANTING PLAN/ELEVATION

SCALE: 1" = 1'-0"

PLANT SCHEDULE

GREEN WALL	BOTANICAL NAME	COMMON NAME	CONT	DETAIL
	GRAPTOPETALUM PARAGUAYENSE	GHOST PLANT	FLATS	7/2LC-506
	SENECIO SERPENS 'MINI BLUE CHALKSTICKS'	'MINI BLUE CHALKSTICKS' SENECIO	FLATS	
	SEMPERVIVUM 'GREEN WHEEL'	'GREEN WHEEL' HENS AND CHICKS	FLATS	
	CRASSULA PUBESCENS SSP. RADICANS	SMALL RED CARPET	FLATS	
	PORTULACARIA AFRA MINIMA	DWARF ELEPHANT FOOD	FLATS	
	SEDUM NUSSBAUMERIANUM	COPPERTONE STONECROP	FLATS	

GREEN WALL ELEVATION



NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
2. ALL VGM LIVING WALL COMPONENTS ARE TO BE COORDINATED WITH TOURNESOL SITE WORKS,(800) 542-2282, CONTACT: JON WILLINGHAM, JWILLINGHAM@TOURNESOLSITEWORKS. SPACING OF TUBULAR STEEL POSTS TO BE COORDINATED WITH TOURNESOL'S VGM RAIL SPACING RECOMMENDATIONS
3. PROVIDE LANDSCAPE ARCHITECT WITH (2) SETS OF STRUCTURAL ENGINEER SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION
4. PLANT MATERIAL FOR LIVING WALL MODULES SHALL BE CONTRACT GROWN PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH JIM MUMFORD OF GREENSCAPED BUILDINGS IN COORDINATION WITH TOURNESOL SITE WORKS AND ALLOW A MINIMUM OF 2 MONTHS GROWING TIME TO ESTABLISH PLANT MATERIAL PRIOR TO INSTALLATION. GREENSCAPED BUILDINGS SHALL PERFORM INSTALLATION OF GREEN WALL PANELS, PLANTS, AND IRRIGATION SYSTEM. GREENSCAPED BUILDINGS, PHONE: 858-576-9300.

2.1

SEE SHEET 2LP-001 FOR LANDSCAPE PLANTING LEGEND & NOTES
SEE SHEET 2LP-100-2LP-106 FOR LANDSCAPE PLANTING PLANS
SEE SHEET 2LP-500 FOR LANDSCAPE PLANTING DETAILS

GENE THEORY - CP-2

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PROJECT NO. 16148

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2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

Sheet Title
LANDSCAPE PLANTING PLAN - GREEN WALL

Sheet No.
2LP-107

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2LP-100

2LP-101

2LP-102

2LP-103

2LP-104

2LP-105

SEE SHEET 2LP-001 FOR LANDSCAPE PLANTING LEGEND & NOTES
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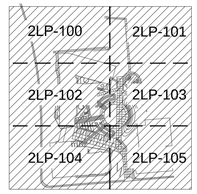

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GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT

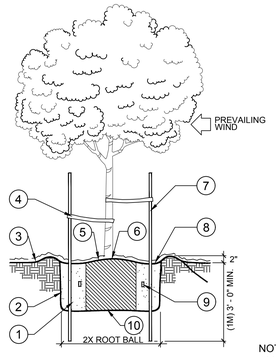
DESIGN DEVELOPMENT
04.25.17

Sheet Title
LANDSCAPE PLANTING OVERALL SITE PLAN

Sheet No.
2LP-111

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002

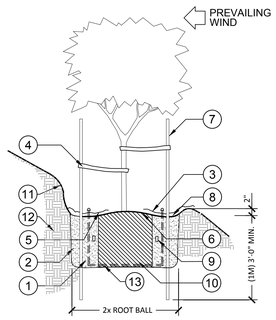
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



LEGEND:
1. PLANTING BACKFILL PER NOTES AND SPECIFICATIONS.
2. ROUGHEN SIDES AND BOTTOM OF PIT.
3. FINISHED GRADE OF LAWN.
4. "CINCH-TIE" MANUF. BY V.I.T. COMPANY, INC. . ATTACH PER MANUF. SPEC'S. AND SECURE WITH FURRING NAIL AT STAKE.
5. (50mm) 2 INCH MULCH LAYER, 36" MIN. CLEAR OF TURF
6. ROOTBALL SLIGHTLY HIGHER THAN FINISHED GRADE.
7. (2) 2" (50mm) DIA. X 8' (2.5M) LONG LODGEPOLE STAKES. NOTE: USE TWO STAKES FOR TREE'S 15 GALLON (#15) AND LARGER.
8. WATER BASIN.
9. PLANTING TABLETS PER NOTES AND SPECIFICATIONS.
10. SOIL BALL RESTING ON FIRM SOIL TO AVOID SETTLING.

NOTE: MAINTAIN A 36" CIRCLE OF MULCH AROUND ALL TREES - NO TURF SHALL OCCUR WITHIN THIS AREA.

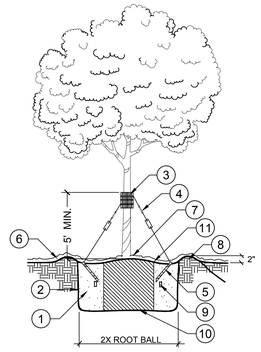
1 TREE PLANTING
NO SCALE



LEGEND:
1. PLANTING BACKFILL PER NOTES AND SPECIFICATIONS.
2. ROUGHEN SIDES AND BOTTOM OF PIT.
3. FINISHED GRADE.
4. "CINCH-TIE" MANUFACURED BY V.I.T. COMPANY, INC. ATTACH PER MANUFACTURER'S SPECIFICATIONS AND SECURE WITH FURRING NAIL AT STAKE.
5. 3 INCH MULCH LAYER.
6. ROOTBALL SLIGHTLY HIGHER THAN FINISHED GRADE.
7. (2) 2" DIA. X8' (2.5M) LONG LODGEPOLE STAKES. NOTE: USE TWO STAKES FOR TREES 15 GALLON (#15) AND LARGER.
8. WATER BASIN.
9. PLANTING TABLETS PER NOTES AND SPECIFICATIONS.
10. SOIL BALL RESTING ON FIRM SOIL TO AVOID SETTLING.
11. CHAMFER SLOPE TO PREVENT EROSION.
12. COMPACTED SUBGRADE
13. PERFORATED DRAIN PIPE PER CIVIL PLANS.

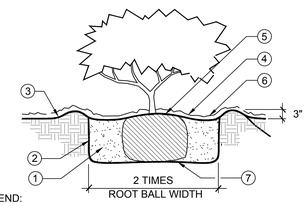
NOTE: KEEP MULCH 2-3" FROM TRUNK OF TREE OR SHRUB, TYP.

2 TREE PLANTING ON SLOPE
NTS



1. PLANTING BACKFILL PER NOTES AND SPECIFICATIONS.
2. ROUGHEN SIDES AND BOTTOM OF PIT.
3. 5 LAYERS OF BURLAP, (5) - 2"x4"x16" WOODEN BATTENS, CONNECTED WITH (3)-3/4" STEEL BANDS. OR APPROVED ALTERNATE - SECURE GUY WIRE TO METAL BANDING AS REQUIRED.
4. GUY WIRE FROM TREE TO ANCHOR AS REQUIRED - PROVIDE FLAGGING TAPE FOR VISIBILITY
5. (3) DUCKBILL OR EQUAL ANCHORS, SPACED EQUALLY AROUND TREE TRUNK
6. (50mm) 2 INCH MULCH LAYER, 36" MIN. CLEAR OF TURF
7. ROOTBALL SLIGHTLY HIGHER THAN FINISHED GRADE.
8. WATER BASIN.
9. PLANTING TABLETS PER NOTES AND SPECIFICATIONS.
10. SOIL BALL RESTING ON FIRM SOIL TO AVOID SETTLING.
11. FINISHED SOIL GRADE / FINISHED GRADE OF LAWN.

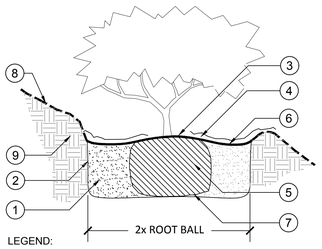
3 TREE PLANTING WITH GUY WIRE
NO SCALE



LEGEND:
1. PLANTING BACKFILL PER NOTES AND SPECIFICATIONS.
2. ROUGHEN SIDES AND BOTTOM OF PIT.
3. FINISHED GRADE.
4. (2) INCH MULCH LAYER
5. ROOTBALL SLIGHTLY HIGHER THAN FINISHED GRADE.
6. WATER BASIN.
7. ROOT BALL RESTING ON FIRM SOIL TO AVOID SETTLING.

NOTE:
A. KEEP MULCH 2-3" FROM TRUNK OF TREE OR SHRUB TYP.

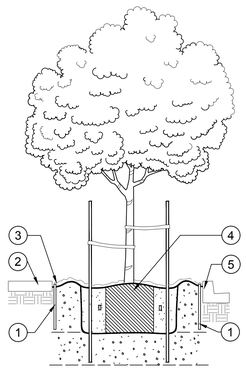
4 SHRUB PLANTING
NO SCALE



LEGEND:
1. PLANTING BACKFILL PER NOTES AND SPECIFICATIONS.
2. ROUGHEN SIDES AND BOTTOM OF PIT.
3. FINISHED GRADE.
4. 3 INCH MULCH LAYER.
5. ROOTBALL SLIGHTLY HIGHER THAN FINISHED GRADE.
6. WATER BASIN.
7. SOIL BALL RESTING ON FIRM SOIL TO AVOID SETTLING.
8. CHAMFER SLOPE TO PREVENT EROSION.
9. COMPACTED SUBGRADE.

NOTES:
A. KEEP MULCH 2-3" FROM TRUNK OF TREE OR SHRUB, TYP.

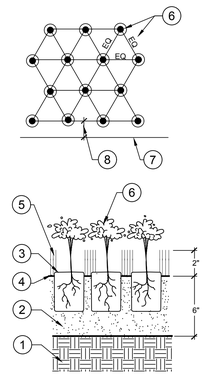
5 SHRUB PLANTING ON SLOPE
NTS



LEGEND
1. 24" DEEP ROOT BARRIER PER SPECIFICATIONS/ EXTEND 10' FROM TRUNK OF TREE IN EACH DIRECTION ALONG FACE OF PAVING, CURB, WALL, ETC.
2. CONCRETE PAVING PER PLAN (WHERE APPLICABLE)
3. EXTEND TOP OF ROOT BARRIER 1/2" MINIMUM ABOVE FINISHED GRADE
4. TREE PLANTING PER DETAILS
5. CONCRETE CURB PER PLANS (WHERE APPLICABLE)

NOTES:
A. CONTRACTOR SHALL INSTALL AND ASSEMBLE ROOT BARRIER PER MANUFACTURERS RECOMMENDATIONS

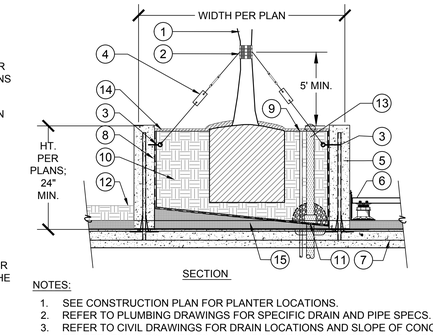
6 ROOT BARRIER
NO SCALE



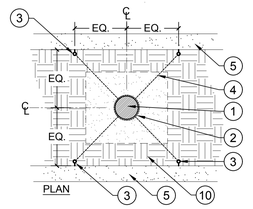
LEGEND:
1. EXISTING SUBGRADE
2. AMENDED PLANTING BACKFILL PER PLANTING NOTES & SPECIFICATIONS (SEE PLANS)
3. ROOTBALL SLIGHTLY HIGHER THAN FINISHED GRADE.
4. FINISHED GRADE
5. 2" MULCH LAYER INSTALLED BEFORE PLANTING
6. PLANT TYPE AND SPACING AS SPECIFIED ON PLANS
7. EDGE OF PLANTING AREA
8. DISTANCE FROM EDGE OF PLANTER TO CENTER OF PLANT TO BE 1/2 THE SPECIFIED SPACING

NOTE:
A. KEEP MULCH 2-3" FROM TRUNK OF TREE, SHRUB, OR GROUNDCOVER TYP.

7 GROUNDCOVER PLANTING
NTS

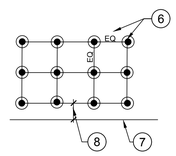


NOTES:
1. SEE CONSTRUCTION PLAN FOR PLANTER LOCATIONS.
2. REFER TO PLUMBING DRAWINGS FOR SPECIFIC DRAIN AND PIPE SPECS.
3. REFER TO CIVIL DRAWINGS FOR DRAIN LOCATIONS AND SLOPE OF CONCRETE.
4. PENETRATIONS TO LINER TO ALLOW FOR IRRIGATION & DRAINAGE LINES MUST BE SEALED SO AS NOT TO ALLOW FOR ROOT OR WATER TO SEEP THROUGH. COORDINATE WITH LINER MANUFACTURE FOR RECOMMENDATIONS TO SEAL.



LEGEND:
1. TREE PER PLAN
2. (5) LAYERS OF BURLAP WRAP, (5) - 2"x4"x16" WOODEN BATTENS (VERT.), CONNECTED WITH (3)-3/4" STEEL BANDS. OR APPROVED ALTERNATE - SECURE GUY WIRE TO MIDDLE METAL BAND AS REQUIRED.
3. (4) GALVANIZED TREE / PALM TREE EYE BOLT ANCHORS. ANCHORED TO INSIDE OF WALL
4. GUY WIRE FROM TREE TO ANCHOR AS REQUIRED
5. CAST IN PLACE CONCRETE WALL, SEE CONSTRUCTION PLAN LEGEND
6. ADJACENT CONCRETE PAVERS PER PLAN OVER PODIUM, IF APPLICABLE
7. STRUCTURAL PODIUM SLAB (SEE STRUCTURAL PLANS)
8. PLANTER DRAINAGE BOARD, LINER AND WATERPROOFING PER ARCHITECTURAL DRAWINGS
9. IRRIGATION LATERAL LINE
10. LIGHTWEIGHT PLANTER MIX
11. AREA DRAIN & GRAVEL BY ARCHITECT
12. ADJACENT PLANTING PER PLAN, IF APPLICABLE
13. ROOTBARRIER WRAP AROUND GRAVEL AT DRAIN. EXTEND FABRIC THROUGH PLANTER LINER AND SEAL PER PLANTER LINER MANUFACTURER'S RECOMMENDATIONS.
14. MULCH LAYER 2" MINIMUM
15. INSULATION BOARD AND WATERPROOFING SEE ARCHITECTURAL PLANS

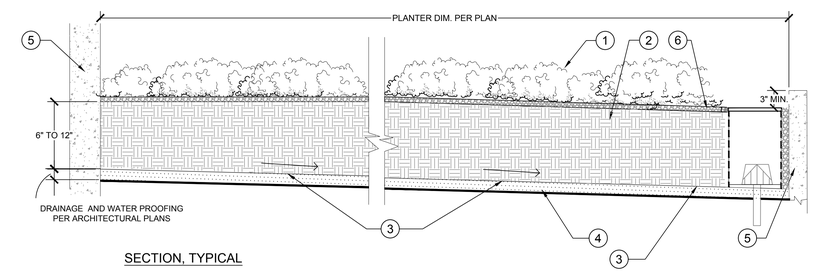
8 TREE PLANTING IN RAISED PLANTER ON PODIUM
NOT TO SCALE



LEGEND:
1. EXISTING SUBGRADE
2. AMENDED PLANTING BACKFILL PER PLANTING NOTES & SPECIFICATIONS (SEE PLANS)
3. ROOTBALL SLIGHTLY HIGHER THAN FINISHED GRADE.
4. FINISHED GRADE
5. 2" MULCH LAYER INSTALLED BEFORE PLANTING
6. PLANT TYPE AND SPACING AS SPECIFIED ON PLANS
7. EDGE OF PLANTING AREA
8. DISTANCE FROM EDGE OF PLANTER TO CENTER OF PLANT TO BE 1/2 THE SPECIFIED SPACING

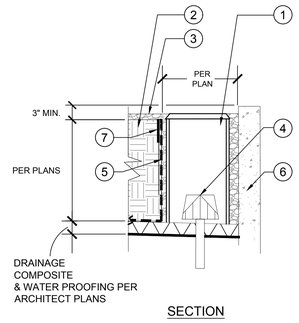
NOTE:
A. KEEP MULCH 2-3" FROM TRUNK OF TREE, SHRUB, OR GROUNDCOVER TYP.

9 ORTHAGONAL PLANTING
NTS



1. ROOF PLANATING PER PLANTING PLAN
2. LIGHT WEIGHT GROWTH MEDIA; DEPTH(S) PER PLAN/TBD. 6" MIN. TO 12" MAX.
3. SLOPES TO DRAIN(S), TYPICAL
4. DRAINAGE COMPOSITE AND WATERPROOFING PER ARCHITECTURAL PLANS
5. BUILDING WALL AND CURBS PER ARCHITECTURAL PLANS
6. MULCH, 2" TYPICAL

10 GREEN ROOF PLANTER CROSS SECTION, TYPICAL
NO SCALE



LEGEND:
1. ACCESS HATCH AND DRAIN BOX, TBD PER ARCHITECT
2. LIGHT WEIGHT SOIL GROWTH MEDIA PER SPECIFICATIONS. DEPTH PER PLANS / TBD. 6" MIN TO 12" MAX.
3. GRAVEL MULCH (IF APPLICABLE)
4. ROOF DRAIN AND OVER-FLOW; PER ARCHITECT. PLANTER TO SLOPE TO DRAIN(S) TYPICAL
5. FILTER FABRIC; TO LINE BOTTOM AND SIDE OF PLANTER WALL, TYPICAL
6. BUILDING WALL PER ARCHITECT PLANS
7. ALUMINUM EDGING

11 ROOF DRAIN BOX, TYPICAL
NO SCALE

2.2

SEE SHEET 2LP-001-002 FOR LANDSCAPE PLANTING LEGEND & NOTES
SEE SHEET 2LP-003 FOR LANDSCAPE OVERALL PLAN
SEE SHEET 2LP-004 FOR LANDSCAPE CALCULATIONS
SEE SHEET 2LP-100-2LP-107 FOR LANDSCAPE PLANTING PLANS
SEE SHEET 2LP-500 FOR LANDSCAPE PLANTING DETAILS

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

16148

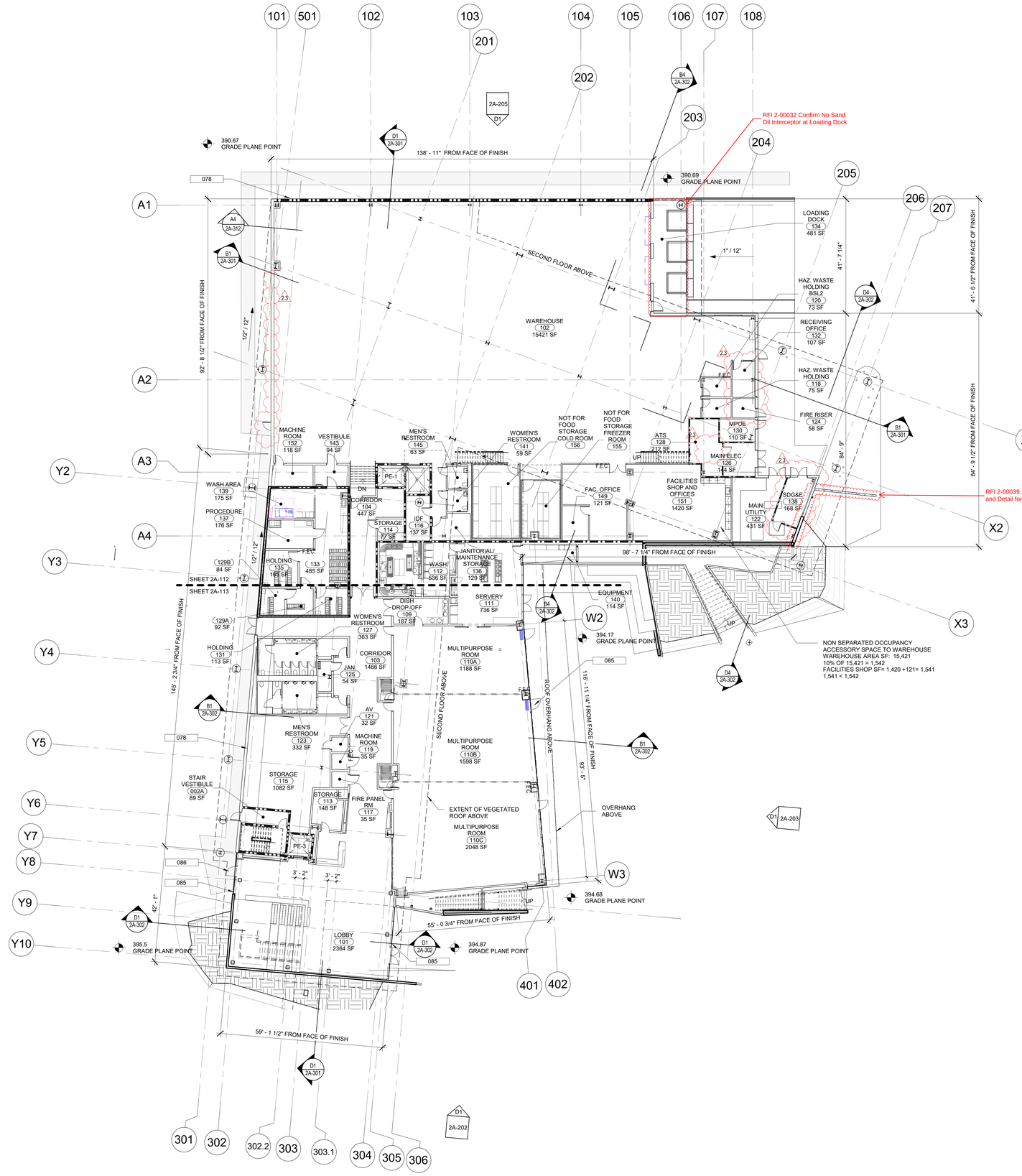
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LANDSCAPE PLANTING DETAILS

Sheet No.
2LP-500

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C, U.O.N.
4. SEE SHEET 2A-601 FOR WALL TYPES AND SHEET 2A/511 FOR FRAMING DETAILS.
5. SEE ENLARGED PLANS FOR ADDITIONAL INFO NOT SHOWN HERE.
6. SEE I SHEETS FOR FINISH PLANS, FINISH SCHEDULE AND TOILET ACCESSORIES SCHEDULE. SEE LF SHEETS FOR LAB FURNISHING PLANS.
7. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
8. ALL ELECTRONIC CARD READER SECURITY DOOR LOCKS MUST BE OPERABLE FOR EXITING UNDER ALL CONDITIONS, INCLUDING POWER OUTAGE.
9. ALL NEW INTERIOR DRYWALL TO BE LEVEL 4 FINISH, EXCEPT: LEVEL 3 FINISH @ UTILITY ROOMS, ELECTRICAL ROOMS, AND JANITOR ROOMS. LEVEL 5 FINISH ON ALL WALLS THAT RECEIVE DRY ERASE PAINT PER FINISH SCHEDULE, AND WALLS IN ATRIUM LOBBY AND AT ALL BALCONIES.
9. ROOMS CONTAINING CONTROLS FOR AIR-CONDITIONING SYSTEMS, SPRINKLER RISERS, VALVES OR OTHER FIRE DETECTION SUPPRESSION OR CONTROL ELEMENTS AND UTILITY EQUIPMENT SHALL BE IDENTIFIED PER CFC 509.
10. PROVIDE HAZARDOUS MATERIAL SIGNS @ LAB DOORS AND WHERE COMPRESSED AIR TANKS ARE STORED, SEE DETAIL E1 / 2A-581
11. PROVIDE BACKING AT ALL LOCATIONS OF WALL-MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES PER DETAIL E3 / 2A-511
12. ALL APPLIANCES IN BREAKROOMS (SUCH AS REFRIGERATORS, MICROWAVES AND DISHWASHERS) ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
13. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
14. ALL EXPOSED STRUCTURAL FRAMING IN ATRIUM TO BE COATED WITH 1-HOUR INTUMESCENT PAINT, U.O.N. 2-HOUR AT LOCATIONS INDICATED ON PLANS AND ATRIUM ELEVATIONS SHEET 2A-209
15. ALL WALLS AT WASH ROOMS (AT , SERVERY, AND LEVEL 3 BUFFER ROOM) AND HAZARDOUS WASTE HOLDING ROOMS TO BE SET ON 4" CONC. CURB.
16. REFER TO SHEET A1 / 2G-011 FOR GRID LAYOUTS AND DIMENSIONS
17. REFER TO I SHEETS FOR INTERIOR ELEVATION CALLOUTS.
18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.
19. FOR FIRE RESISTANCE DETAILS SEE SHEETS 2G-110, 2G-111, AND 2G-112.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
078	TITLE 24 INFO: STUCCO WALL R-VALUE: CAVITY R19, CONTINUOUS R10
085	TITLE 24 INFO: GLAZING U FACTOR 0.49, SHGC 0.25, VT 0.54, 33 STC MIN.
086	TITLE 24 INFO: DOOR GLAZING U FACTOR 0.49, SHGC 0.25, VT 0.54, 33 STC MIN.

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL FIRST LEVEL FLOOR PLAN

Sheet No.

2A-111

A1 **LEVEL 01- OVERALL FLOOR PLAN**

1/16" = 1'-0"

0 8' 16' 32'
SCALE: 1/16" = 1'

N

11/20/2017 2:20:21 PM
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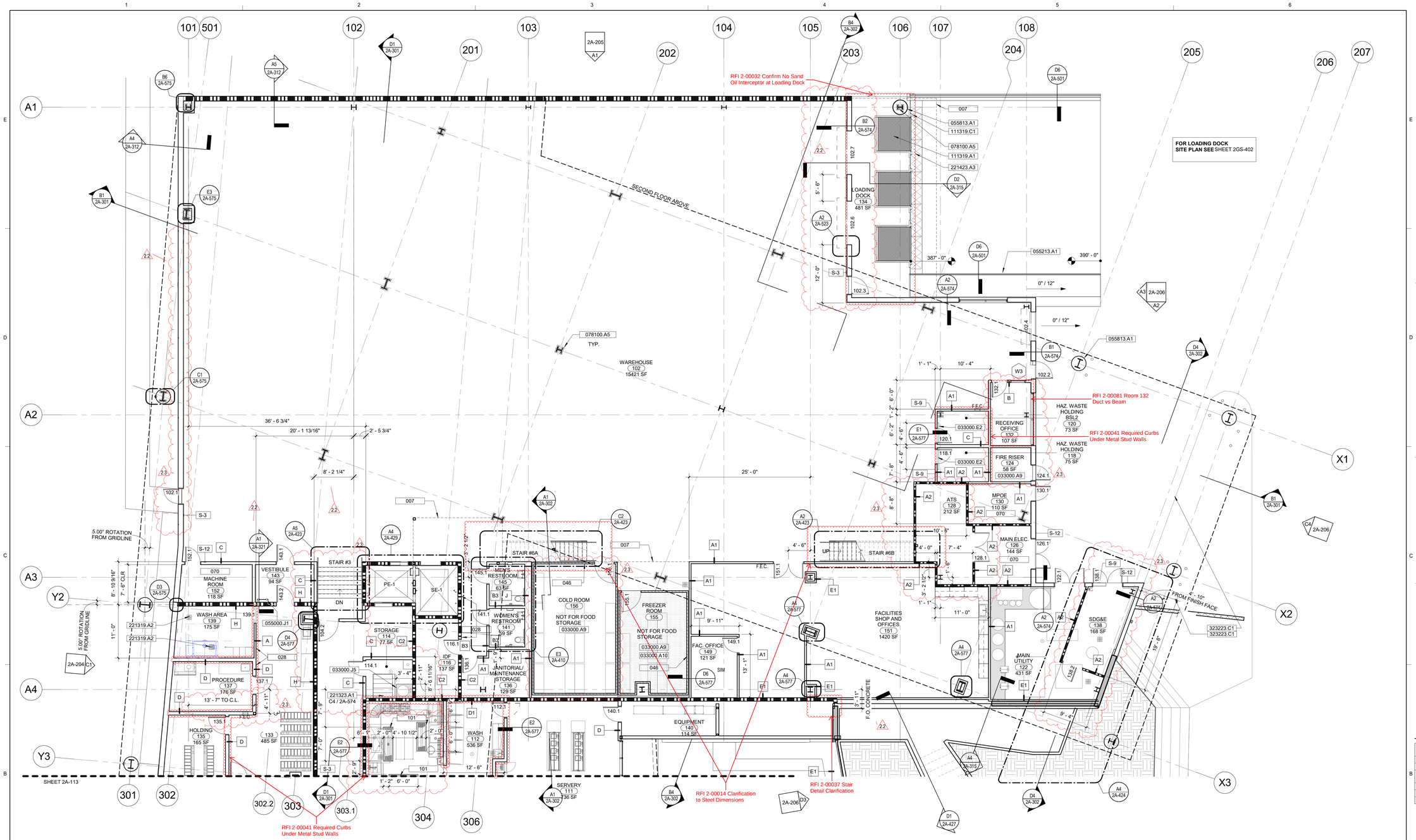


A1 LEVEL 01- PART A

1/8" = 1'-0"

SCALE: 1/8" = 1'

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/A2-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582
S-14	ASSISTED LISTENING DEVICE SIGN	SEE DETAIL D6/2A-581
S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
007	LINE OF STRUCTURE OR CEILING ABOVE
028	FACE OF WALLS TO ALIGN
046	COLD ROOM WALL BY OTHERS
070	PROVIDE PAINTED FIRE TREATED PLYWOOD BEHIND ALL WALL MOUNTED EQUIPMENT AND PANELS
101	DEPRESSED SLAB FOR FOOD SERVICE DRAIN, SEE STRUCTURAL FOR DEPRESSED SLAB INFORMATION AND FOOD SERVICE DRAWINGS FOR DRAIN AND COVER PLATE DETAIL

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A9	EXPOSED CONCRETE FLOOR AT THIS ROOM
033000.A10	DEPRESS CONCRETE SLAB 4" AT THIS ROOM
033000.E2	CONCRETE TROUGH WITHOUT DRAIN
033000.J5	CONCRETE EQUIPMENT PAD PER STRUCTURAL
055000.J1	STEEL LADDER
055213.A1	TUBE RAILING SYSTEM
055813.A1	ALUMINUM COLUMN COVERS
078100.A5	TYPE II SPRAYED FIRE RESISTIVE MATERIAL WITH 2-HOUR FIRE-RESISTANCE RATING. TYPICAL @ EXPOSED COLUMNS IN SHIPPING AND RECEIVING AND MEZZANINE
111319.A1	RECESSED DOCK LEVELER
111319.C1	LOADING DOCK BUMBER
221319.A2	NEW FLOOR SINK, SEE PLUMBING. SLOPE FLOOR TO SINK.
221323.A1	GREASE INTERCEPTOR PER PLUMBING
221423.A3	TRENCH DRAIN
260000.A4	ELECTRICAL EQUIPMENT, SEE ELECTRICAL
323223.C1	NEW CONCRETE OR CMU RETAINING WALLS, SEE CIVIL & STRUCTURAL

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C, U.O.N.
4. SEE SHEET 2A-601 FOR WALL TYPES AND SHEET 2A/511 FOR FRAMING DETAILS.
5. SEE ENLARGED PLANS FOR ADDITIONAL INFO NOT SHOWN HERE.
6. SEE I SHEETS FOR FINISH PLANS, FINISH SCHEDULE AND TOILET ACCESSORIES SCHEDULE. SEE LF SHEETS FOR LAB FURNISHING PLANS.
7. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
8. ALL ELECTRONIC CARD READER SECURITY DOOR LOCKS MUST BE OPERABLE FOR EXITING UNDER ALL CONDITIONS, INCLUDING POWER OUTAGE.
9. ALL NEW INTERIOR DRYWALL TO BE LEVEL 4 FINISH, EXCEPT:
   LEVEL 3 FINISH @ UTILITY ROOMS, ELECTRICAL ROOMS, AND JANITOR ROOMS.
   LEVEL 5 FINISH ON ALL WALLS THAT RECEIVE DRY ERASE PAINT PER FINISH SCHEDULE, AND WALLS IN ATRIUM LOBBY AND AT ALL BALCONIES.
9. ROOMS CONTAINING CONTROLS FOR AIR-CONDITIONING SYSTEMS, SPRINKLER RISERS, VALVES OR OTHER FIRE DETECTION SUPPRESSION OR CONTROL ELEMENTS AND UTILITY EQUIPMENT SHALL BE IDENTIFIED PER CFC 509.
10. PROVIDE HAZARDOUS MATERIAL SIGNS @ LAB DOORS AND WHERE COMPRESSED AIR TANKS ARE STORED, SEE DETAIL E1 / 2A-581
11. PROVIDE BACKING AT ALL LOCATIONS OF WALL-MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES PER DETAIL E3 / 2A-511
12. ALL APPLIANCES IN BREAKROOMS (SUCH AS REFRIGERATORS, MICROWAVES AND DISHWASHERS) ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
13. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
14. ALL EXPOSED STRUCTURAL FRAMING IN ATRIUM TO BE COATED WITH 1-HOUR INTUMESCENT PAINT, U.O.N. 2-HOUR AT LOCATIONS INDICATED ON PLANS AND ATRIUM ELEVATIONS SHEET 2A-209
15. ALL WALLS AT WASH ROOMS (AT SERVERY, AND LEVEL 3 BUFFER ROOM) AND HAZARDOUS WASTE HOLDING ROOMS TO BE SET ON 4" CONC. CURB.
16. REFER TO SHEET A1 / 2G-011 FOR GRID LAYOUTS AND DIMENSIONS
17. REFER TO I SHEETS FOR INTERIOR ELEVATION CALLOUTS.
18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.
19. FOR FIRE RESISTANCE DETAILS SEE SHEETS 2G-110, 2G-111, AND 2G-112.

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

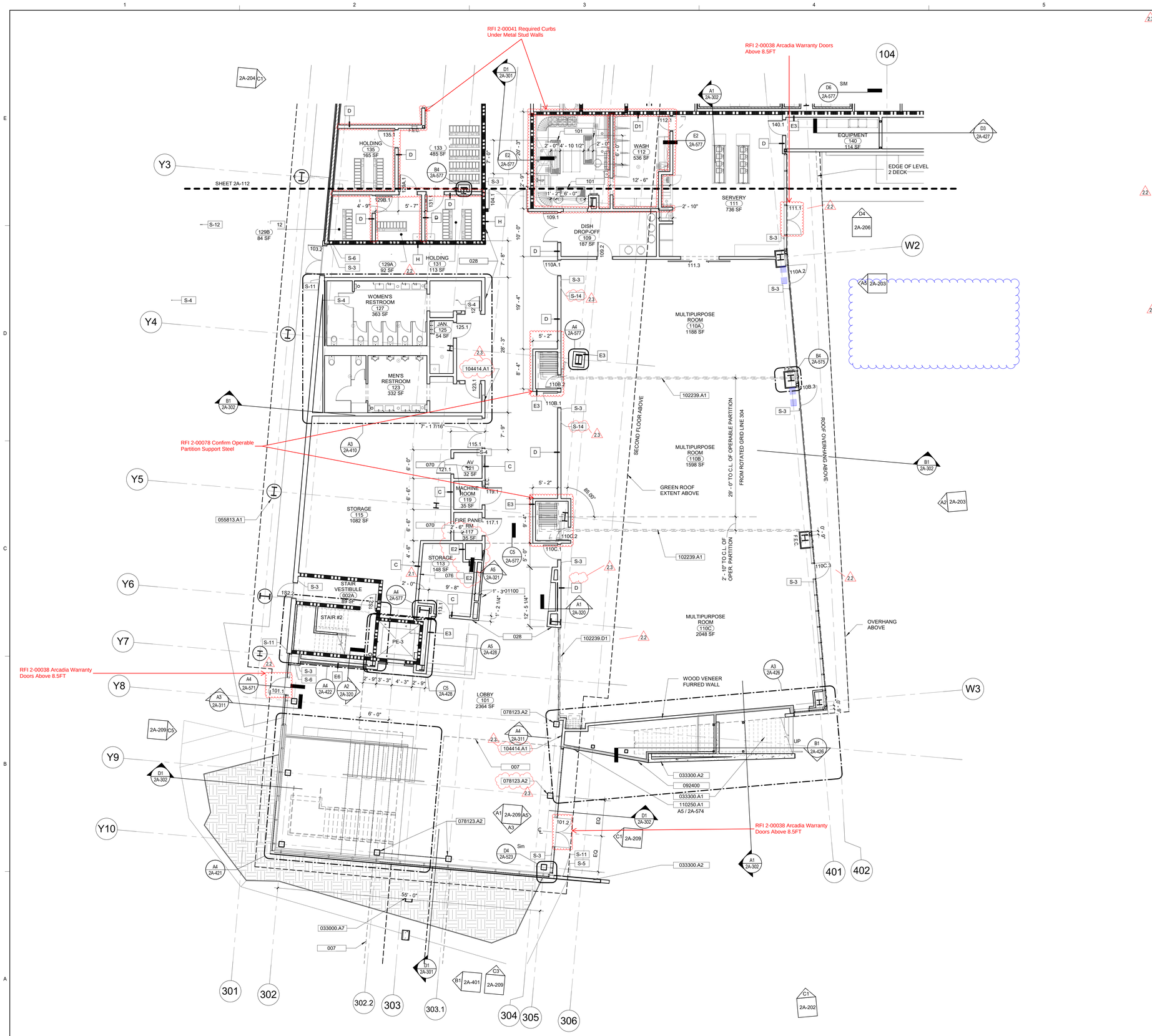
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
FIRST LEVEL FLOOR PLAN- PART A

Sheet No.
2A-112

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C, U.O.N.
4. SEE SHEET 2A-601 FOR WALL TYPES AND SHEET 2A/511 FOR FRAMING DETAILS.
5. SEE ENLARGED PLANS FOR ADDITIONAL INFO NOT SHOWN HERE.
6. SEE I SHEETS FOR FINISH PLANS, FINISH SCHEDULE AND TOILET ACCESSORIES SCHEDULE. SEE LF SHEETS FOR LAB FURNISHING PLANS.
7. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
8. ALL ELECTRONIC CARD READER SECURITY DOOR LOCKS MUST BE OPERABLE FOR EXITING UNDER ALL CONDITIONS, INCLUDING POWER OUTAGE.
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11. PROVIDE BACKING AT ALL LOCATIONS OF WALL-MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES PER DETAIL E3 / 2A-511
12. ALL APPLIANCES IN BREAKROOMS (SUCH AS REFRIGERATORS, MICROWAVES AND DISHWASHERS) ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
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18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.
19. FOR FIRE RESISTANCE DETAILS SEE SHEETS 2G-110, 2G-111, AND 2G-112.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A7	CAST-IN-PLACE COLUMN FOR PEDESTRIAN BRIDGE
033300.A1	ARCHITECTURAL CONCRETE
033300.A2	C.I.P. SITE WALL W/ SMOOTH FINISH, SEE LANDSCAPE
055813.A1	ALUMINUM COLUMN COVERS
078123.A2	INTUMESCENT FIRE-RESISTIVE COATING WITH 2-HOUR FIRE-RESISTANCE RATING. SEE GENERAL SHEET NOTES FOR LOCATIONS OF 1-HOUR. (UL 263)
092400	CEMENT PLASTERING
101100	VISUAL DISPLAY UNITS
102239.A1	OPERABLE ACOUSTICAL PANEL PARTITION SYSTEM. SEE FINISH LEGEND
102239.D1	GLASS ACOUSTSICAL WALL
104414.A1	RECESSED DEFIBRILLATOR CABINET
110250.A1	KNOX-VAULT ASSEMBLY

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
007	LINE OF STRUCTURE OR CEILING ABOVE
028	FACE OF WALLS TO ALIGN
070	PROVIDE PAINTED FIRE TREATED PLYWOOD BEHIND ALL WALL MOUNTED EQUIPMENT AND PANELS
076	LOCATION OF REMOTE POWER SUPPLY FOR ILLUMINATED HANDRAIL. PROVIDE SHELF, TO BE COORDINATED WITH SIZE OF EQUIPMENT.
101	DEPRESSED SLAB FOR FOOD SERVICE DRAIN, SEE STRUCTURAL FOR DEPRESSED SLAB INFORMATION AND FOOD SERVICE DRAWINGS FOR DRAIN AND COVER PLATE DETAIL

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582
S-14	ASSISTED LISTENING DEVICE SIGN	SEE DETAIL D6/2A-581
S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

FIRST LEVEL FLOOR PLAN- PART B

Sheet No.

2A-113

A1 LEVEL 01- PART B

1/8" = 1'-0"

SCALE: 1/8" = 1'

11/20/2017 2:21:14 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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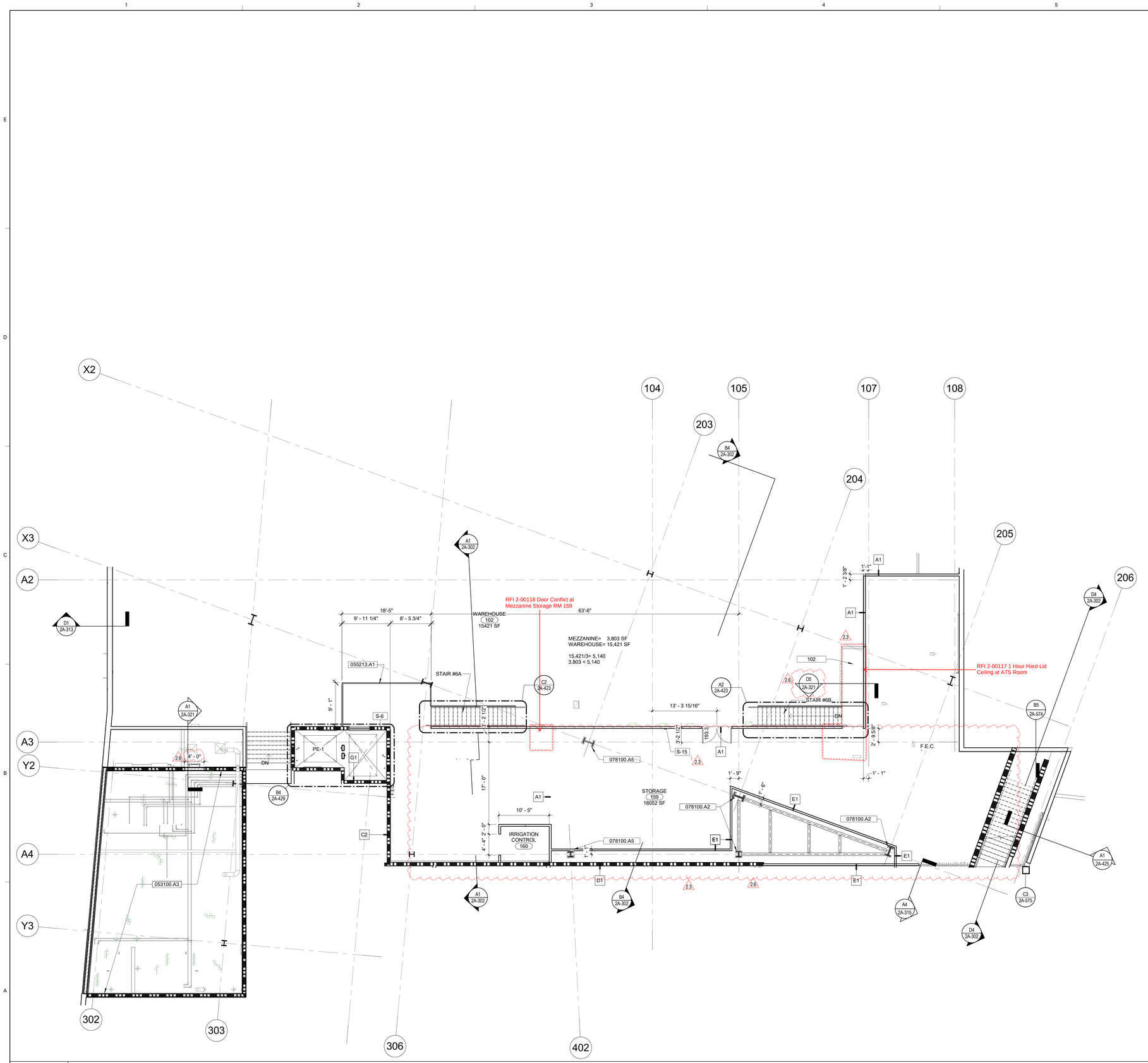

A1 LEVEL 01.9- MEZZANINE LEVEL FLOOR PLAN

1/8" = 1'-0"

SCALE: 1/8" = 1'

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C, U.O.N.
4. SEE SHEET 2A-401 FOR WALL TYPES AND SHEET 2A/511 FOR FRAMING DETAILS.
5. SEE ENLARGED PLANS FOR ADDITIONAL INFO NOT SHOWN HERE.
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15. ALL WALLS AT WASH ROOMS (AT , SERVERY, AND LEVEL 3 BUFFER ROOM) AND HAZARDOUS WASTE HOLDING ROOMS TO BE SET ON 4" CONC. CURB.
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17. REFER TO I SHEETS FOR INTERIOR ELEVATION CALLOUTS.
18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.
19. FOR FIRE RESISTANCE DETAILS SEE SHEETS 2G-110, 2G-111, AND 2G-112.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
053100.A3	STEEL DECK AND SHEET METAL WALKABLE SURFACE <SEE STRUCTURAL DRAWINGS>
055213.A1	TUBE RAILING SYSTEM
078100.A2	SPRAYED FIRE RESISTIVE MATERIAL WITH 2-HOUR FIRE-RESISTANCE RATING
078100.A5	TYPE II SPRAYED FIRE RESISTIVE MATERIAL WITH 2-HOUR FIRE-RESISTANCE RATING. TYPICAL @ EXPOSED COLUMNS IN SHIPPING AND RECEIVING AND MEZZANINE

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
102	1 HOUR RATED HARD-LID CEILING AT ATS ROOM

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582
S-14	ASSISTED LISTENING DEVICE SIGN	SEE DETAIL D6/2A-581
S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

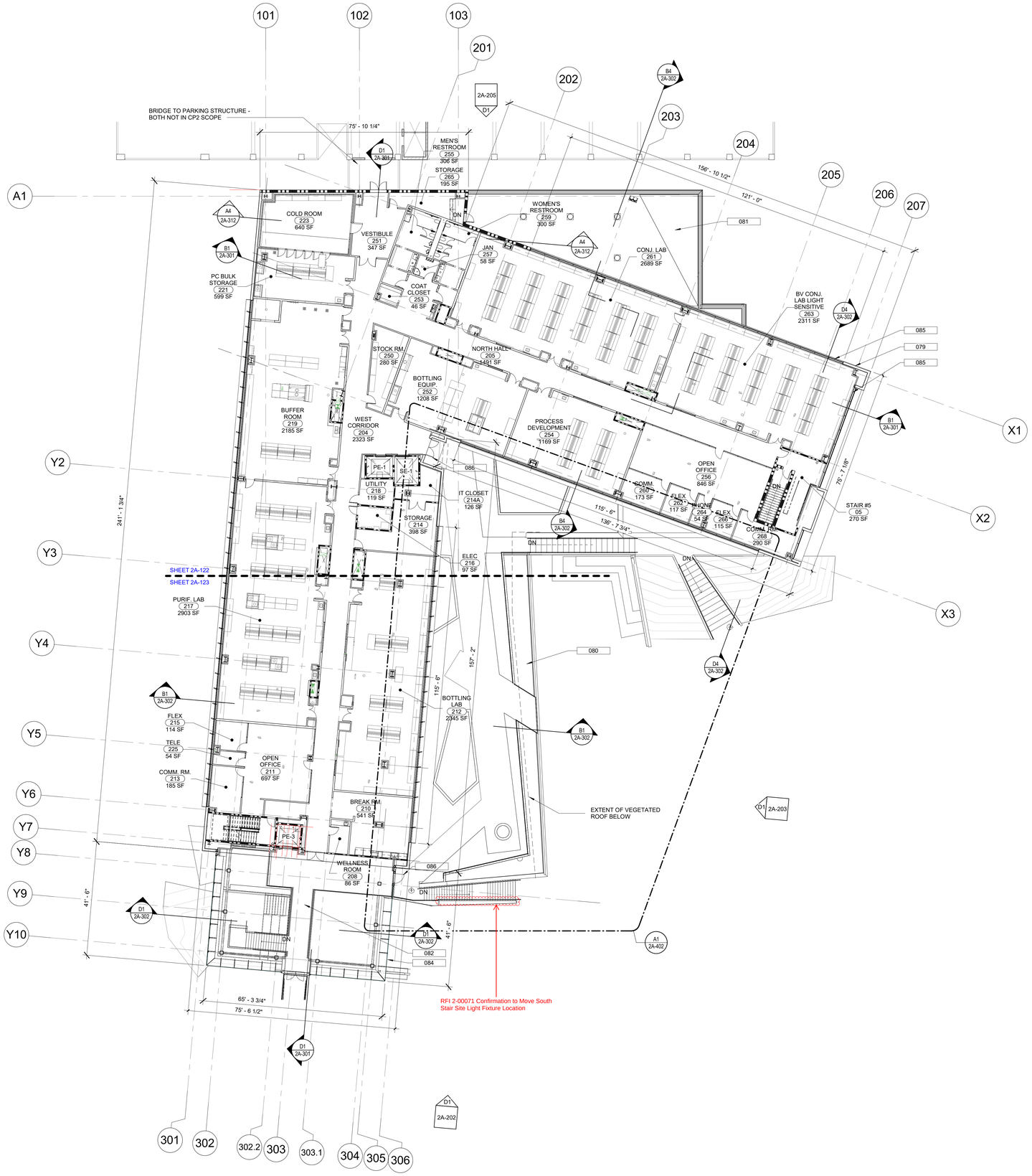
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
MEZZANINE LEVEL FLOOR PLAN

Sheet No.
2A-114

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002



GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C, U.O.N.
4. SEE SHEET 2A-601 FOR WALL TYPES AND SHEET 2A511 FOR FRAMING DETAILS.
5. SEE ENLARGED PLANS FOR ADDITIONAL INFO NOT SHOWN HERE.
6. SEE I SHEETS FOR FINISH PLANS, FINISH SCHEDULE AND TOILET ACCESSORIES SCHEDULE. SEE LF SHEETS FOR LAB FURNISHING PLANS.
7. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
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15. ALL WALLS AT WASH ROOMS (AT SERVERY, AND LEVEL 3 BUFFER ROOM) AND HAZARDOUS WASTE HOLDING ROOMS TO BE SET ON 4" CONC. CURB.
16. REFER TO SHEET A1 / 2G-005 FOR GRID LAYOUTS AND DIMENSIONS
17. REFER TO I SHEETS FOR INTERIOR ELEVATION CALLOUTS.
18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.

2.2

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
079	TITLE 24 INFO: TYPICAL EXTERIOR WALL R VALUE: CAVITY R19, CONTINUOUS R8
080	TITLE 24 INFO: GREEN ROOF R VALUE: CONTINUOUS R46
081	TITLE 24 INFO: ROOF R VALUE: R25
082	TITLE 24 INFO: INTERIOR FLOOR R VALUE: R29
084	TITLE 24 INFO: ATRIUM GLAZING U FACTOR 0.27, SHGC 0.24, VT 0.52
085	TITLE 24 INFO: GLAZING U FACTOR 0.49, SHGC 0.25, VT 0.54
086	TITLE 24 INFO: DOOR GLAZING U FACTOR 0.49, SHGC 0.25, VT 0.54

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

A1 LEVEL 02- OVERALL FLOOR PLAN

1/16" = 1'-0"

0 8' 16' 32'

SCALE: 1/16" = 1'

N

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title

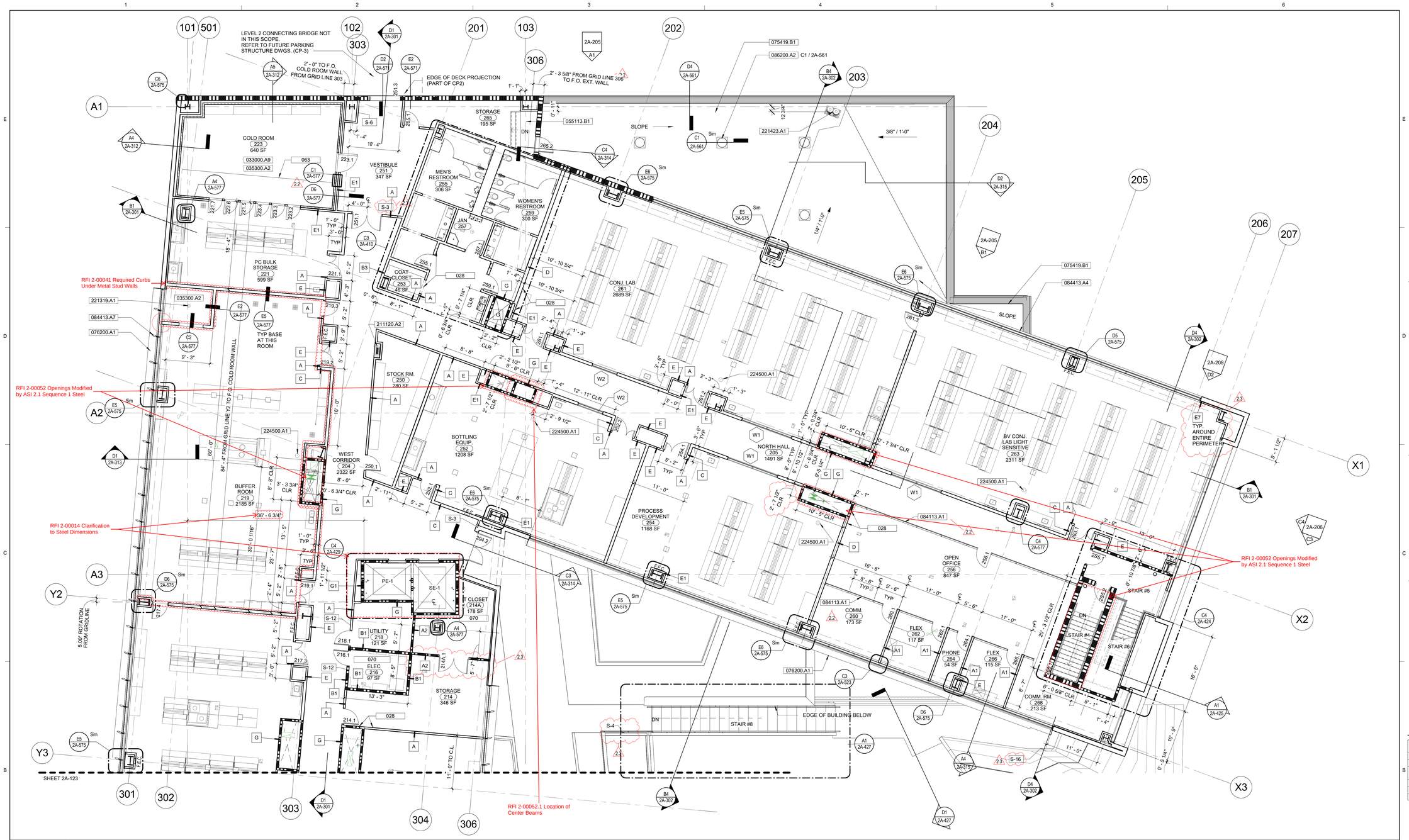
OVERALL SECOND LEVEL FLOOR PLAN

Sheet No.

2A-121

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

10/2/2017 6:05:04 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



B1 LEVEL 02- PART A

RFI 2-00007 Clarification for Missing Tie-in Dimensions

RFI 2-00007.1 Clarification for Missing Tie-in Dimensions Revision

1/8" = 1'-0"

SCALE: 1/8" = 1'

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
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- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582
S-14	ASSISTED LISTENING DEVICE SIGN	SEE DETAIL D6/2A-581
S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
028	FACE OF WALLS TO ALIGN
063	FULL HEIGHT CHAIN LINK FENCE BY COLD ROOM MANUFACTURER
070	PROVIDE PAINTED FIRE TREATED PLYWOOD BEHIND ALL WALL MOUNTED EQUIPMENT AND PANELS

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A9	EXPOSED CONCRETE FLOOR AT THIS ROOM
035300.A2	SHALLOW CONCRETE TOPPING OVER METAL DECK AT THIS ROOM - REFER TO STRUCTURAL FOR METAL DECK INFORMATION, REFER TO ARCHITECTURAL FOR LOCATIONS
055113.B1	PREASSEMBLED STEEL STAIRS WITH CONCRETE-FILLED TREADS <DEFERRED APPROVAL>
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A' ICC-ES REPORT ESR-1157
076200.A1	PREFINISHED ALUMINUM FLASHING
084113.A1	INTERIOR ALUMINUM-FRAMED STOREFRONT SYSTEM, SF-1
084413.A4	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 - 6" MULLIONS>
084413.A7	SUN CONTROL SYSTEM
086200.A2	TUBULAR SKYLIGHT, 20" ADJUSTABLE- CCRR-0131
211120.A2	
221319.A1	NEW FLOOR DRAIN, SEE PLUMBING. SLOPE FLOOR TO DRAIN.
221423.A1	ROOF DRAIN AND OVERFLOW, SEE PLUMBING
224500.A1	EMERGENCY SHOWER

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C, U.O.N.
4. SEE SHEET 2A-601 FOR WALL TYPES AND SHEET 2A/511 FOR FRAMING DETAILS.
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6. SEE I SHEETS FOR FINISH PLANS, FINISH SCHEDULE AND TOILET ACCESSORIES SCHEDULE. SEE LF SHEETS FOR LAB FURNISHING PLANS.
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8. ALL ELECTRONIC CARD READER SECURITY DOOR LOCKS MUST BE OPERABLE FOR EXITING UNDER ALL CONDITIONS, INCLUDING POWER OUTAGE.
9. ALL NEW INTERIOR DRYWALL TO BE LEVEL 4 FINISH, EXCEPT:
   LEVEL 3 FINISH @ UTILITY ROOMS, ELECTRICAL ROOMS, AND JANITOR ROOMS.
   LEVEL 5 FINISH ON ALL WALLS THAT RECEIVE DRY ERASE PAINT PER FINISH SCHEDULE, AND WALLS IN ATRIUM LOBBY AND AT ALL BALCONIES.
9. ROOMS CONTAINING CONTROLS FOR AIR-CONDITIONING SYSTEMS, SPRINKLER RISERS, VALVES OR OTHER FIRE DETECTION SUPPRESSION OR CONTROL ELEMENTS AND UTILITY EQUIPMENT SHALL BE IDENTIFIED PER CFC 509.
10. PROVIDE HAZARDOUS MATERIAL SIGNS @ LAB DOORS AND WHERE COMPRESSED AIR TANKS ARE STORED, SEE DETAIL E1 / 2A-581
11. PROVIDE BACKING AT ALL LOCATIONS OF WALL-MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES PER DETAIL E3 / 2A-511
12. ALL APPLIANCES IN BREAKROOMS (SUCH AS REFRIGERATORS, MICROWAVES AND DISHWASHERS) ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
13. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
14. ALL EXPOSED STRUCTURAL FRAMING IN ATRIUM TO BE COATED WITH 1-HOUR INTUMESCENT PAINT, U.O.N. 2-HOUR AT LOCATIONS INDICATED ON PLANS AND ATRIUM ELEVATIONS SHEET 2A-209
15. ALL WALLS AT WASH ROOMS (AT , SERVERY, AND LEVEL 3 BUFFER ROOM) AND HAZARDOUS WASTE HOLDING ROOMS TO BE SET ON 4" CONC. CURB.
16. REFER TO SHEET A1 / 2G-011 FOR GRID LAYOUTS AND DIMENSIONS
17. REFER TO I SHEETS FOR INTERIOR ELEVATION CALLOUTS.
18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.
19. FOR FIRE RESISTANCE DETAILS SEE SHEETS 2G-110, 2G-111, AND 2G-112.

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GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

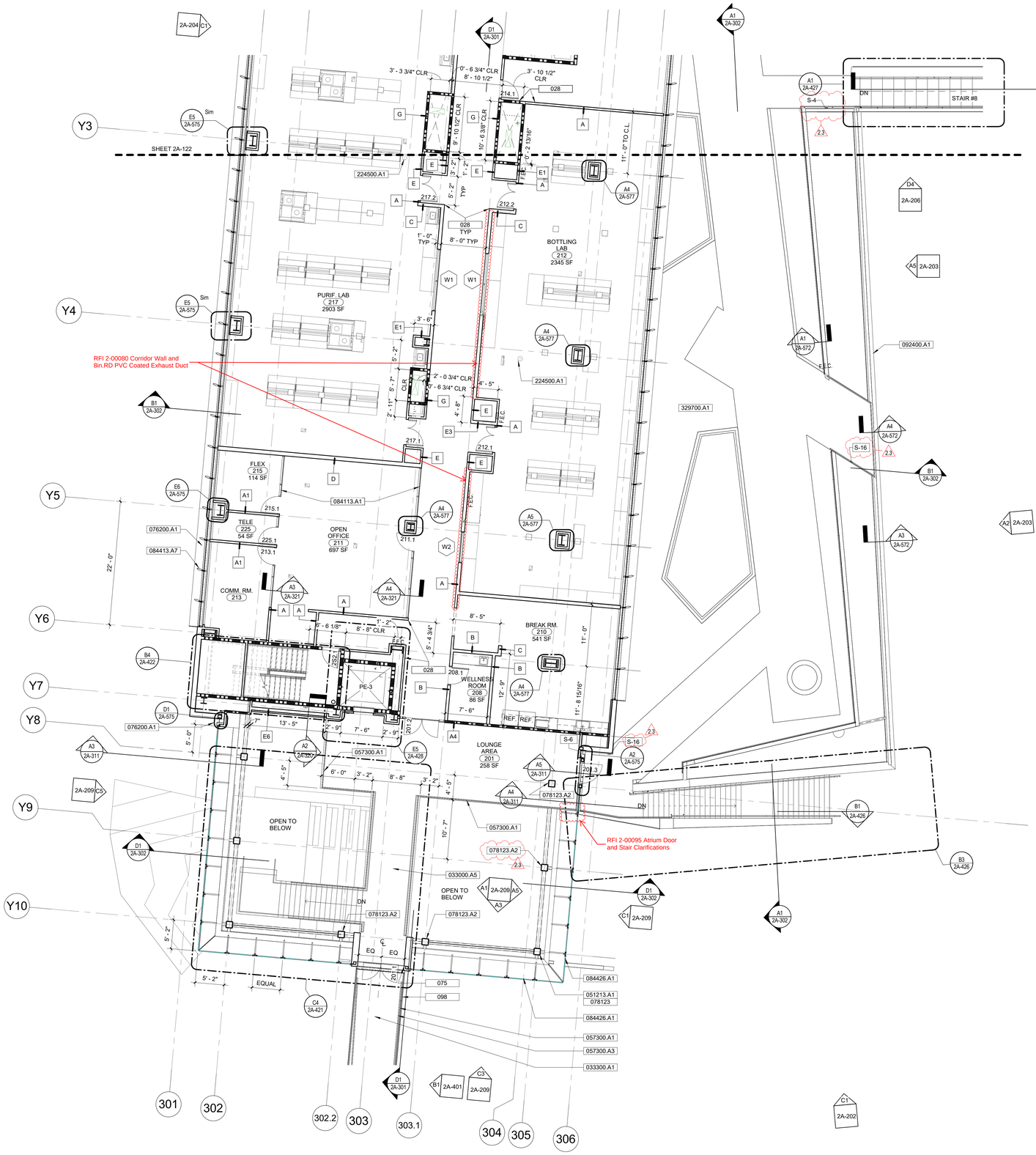
Sheet Title

SECOND LEVEL FLOOR PLAN- PART A

Sheet No.

2A-122

2.2 DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



GENERAL SHEET NOTES

2.3

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C, U.O.N.
4. SEE SHEET 2A-601 FOR WALL TYPES AND SHEET 2A/511 FOR FRAMING DETAILS.
5. SEE ENLARGED PLANS FOR ADDITIONAL INFO NOT SHOWN HERE.
6. SEE I SHEETS FOR FINISH PLANS, FINISH SCHEDULE AND TOILET ACCESSORIES SCHEDULE. SEE LF SHEETS FOR LAB FURNISHING PLANS.
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19. FOR FIRE RESISTANCE DETAILS SEE SHEETS 2G-110, 2G-111, AND 2G-112.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
033300.A1	ARCHITECTURAL CONCRETE
051213.A1	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) FRAMING. <SEE STRUCTURAL DRAWINGS>
057300.A1	STAINLESS STEEL CABLE GUARD RAIL
057300.A3	STAINLESS STEEL HAND RAIL WITH INTEGRAL LIGHTING, SEE LIGHTING AND ELECTRICAL DRAWINGS. BRACKET-MOUNTED TO GUARD RAIL POSTS, WHERE OCCUR. INTERMEDIATE HAND RAIL POSTS AND CONTINUOUS END POSTS PER ELEVATIONS.
076200.A1	PREFINISHED ALUMINUM FLASHING
078123	INTUMESCENT FIREPROOFING
078123.A2	INTUMESCENT FIRE-RESISTIVE COATING WITH 2-HOUR FIRE-RESISTANCE RATING. SEE GENERAL SHEET NOTES FOR LOCATIONS OF 1-HOUR. (UL 263)
084113.A1	INTERIOR ALUMINUM-FRAMED STOREFRONT SYSTEM, SF-1
084413.A7	SUN CONTROL SYSTEM
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
224500.A1	EMERGENCY SHOWER
329700.A1	VEGETATED ROOF SYSTEM

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
028	FACE OF WALLS TO ALIGN
075	CARD READER ON INSIDE OF BRAKE METAL WALL
098	OPEN PEDESTRIAN BRIDGE PER SECTION 3104.5.3, BRIDGE TO REMAIN OPEN

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582
S-14	ASSISTED LISTENING DEVICE SIGN	SEE DETAIL D6/2A-581
S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

SCALE: 1/8" = 1'

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
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	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
SECOND LEVEL FLOOR PLAN- PART B

Sheet No.
2A-123

A1 **LEVEL 02- PART B**

RFI 2-00007 Clarification for Missing Tie-in Dimensions

RFI 2-00007.1 Clarification for Missing Tie-in Dimensions Revision

1/8" = 1'-0"

2.2

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/20/2017 2:23:42 PM
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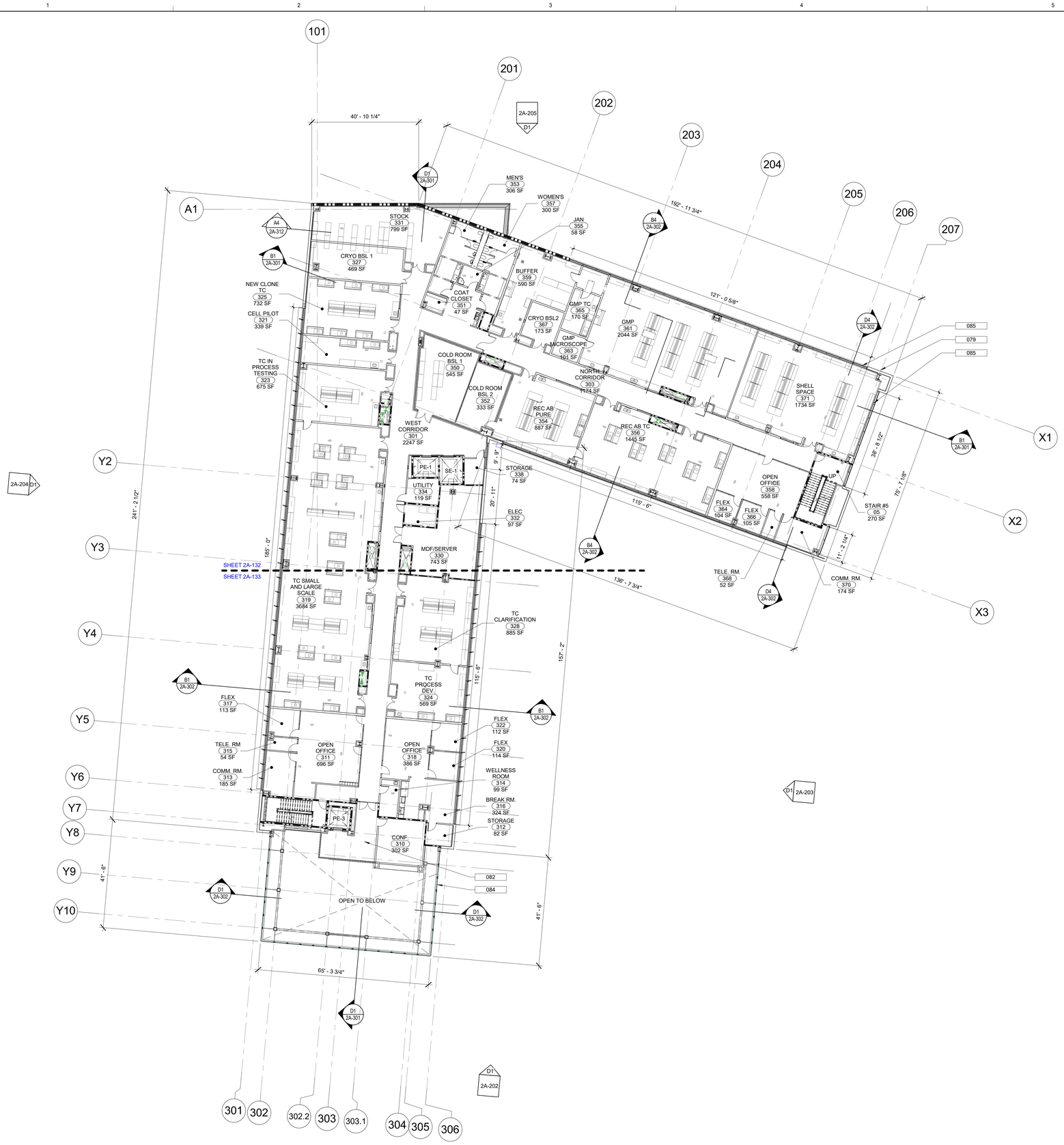

GENERAL SHEET NOTES

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3. ALL WALLS ARE TYPE C, U.O.N.
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5. SEE ENLARGED PLANS FOR ADDITIONAL INFO NOT SHOWN HERE.
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17. REFER TO I SHEETS FOR INTERIOR ELEVATION CALLOUTS.
18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.

2.2

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
079	TITLE 24 INFO: TYPICAL EXTERIOR WALL R VALUE: CAVITY R19, CONTINUOUS R8
082	TITLE 24 INFO: INTERIOR FLOOR R VALUE: R29
084	TITLE 24 INFO: ATRIUM GLAZING U FACTOR 0.27, SHGC 0.24, VT 0.52
085	TITLE 24 INFO: GLAZING U FACTOR 0.49, SHGC 0.25, VT 0.54

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

A1 **LEVEL 03- OVERALL FLOOR PLAN**

1/16" = 1'-0"

0 4' 8' 16'
SCALE: 1/8" = 1'

N

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
OVERALL THIRD LEVEL FLOOR PLAN

Sheet No.
2A-131

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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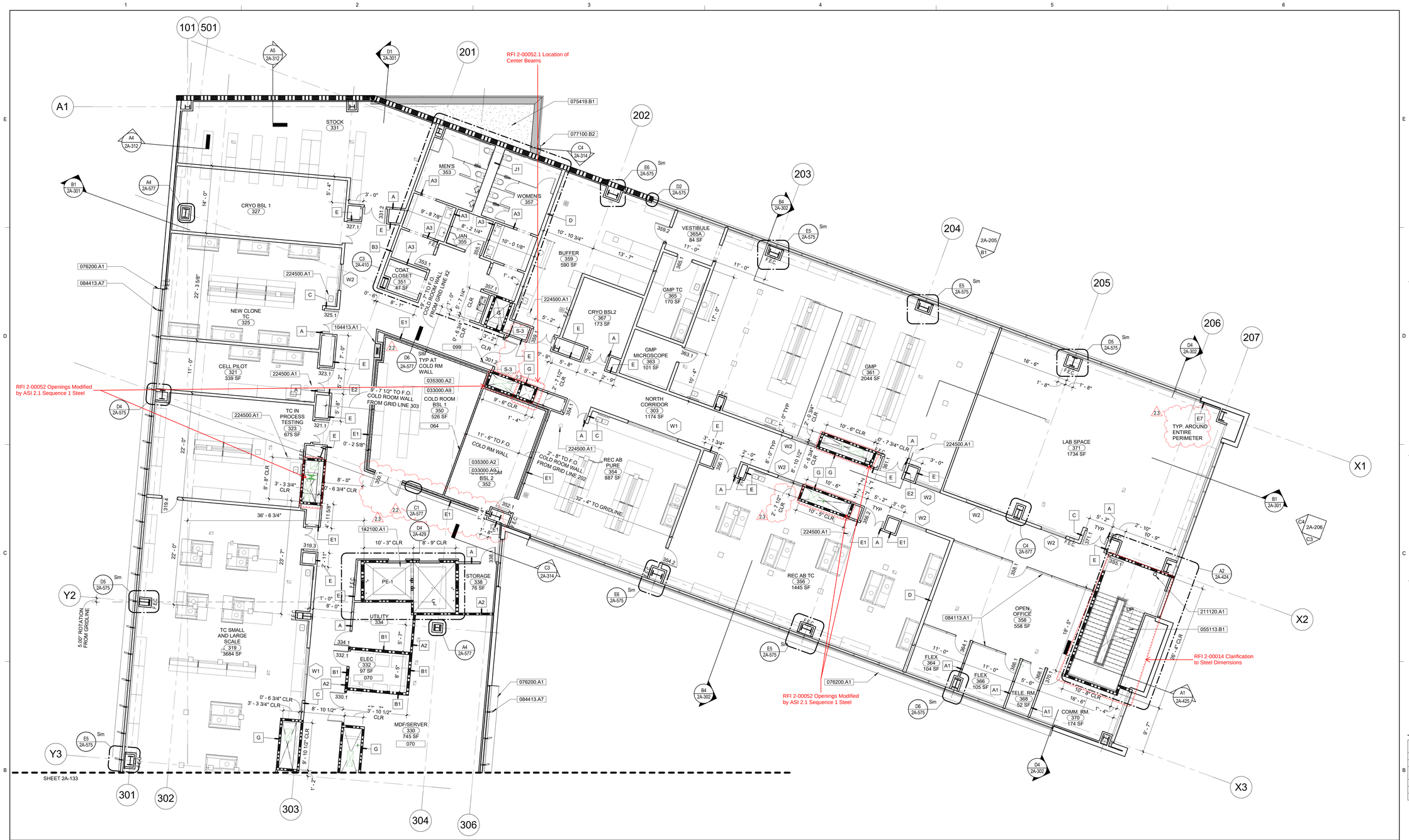

B1 LEVEL 03- PART A

RFI 2-00007 Clarification for Missing Tie-in Dimensions

RFI 2-00007.1 Clarification for Missing Tie-in Dimensions Revision

1/8" = 1'-0"

SCALE: 1/8" = 1'

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
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S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
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S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
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S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
064	CEILING HEIGHT CHAIN LINK FENCE SET ON PARTIAL HEIGHT WALL BY COLD ROOM MANUFACTURER
070	PROVIDE PAINTED FIRE TREATED PLYWOOD BEHIND ALL WALL MOUNTED EQUIPMENT AND PANELS
099	CARD READERS TO BE CONNECTED TO THE FIRE ALARM SYSTEM AND DEACTIVE IN EVENT OF EMERGENCIES

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A9	EXPOSED CONCRETE FLOOR AT THIS ROOM
035300.A2	SHALLOW CONCRETE TOPPING OVER METAL DECK AT THIS ROOM - REFER TO STRUCTURAL FOR METAL DECK INFORMATION, REFER TO ARCHITECTURAL FOR LOCATIONS
055113.B1	PREASSEMBLED STEEL STAIRS WITH CONCRETE-FILLED TREADS <DEFERRED APPROVAL>
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A' ICC-ES REPORT ESR-1157
076200.A1	PREFINISHED ALUMINUM FLASHING
077100.B2	SCUPPER, LEADER HEAD & DOWNPIPE
084113.A1	INTERIOR ALUMINUM-FRAMED STOREFRONT SYSTEM, SF-1
084413.A7	SUN CONTROL SYSTEM
104413.A1	FIRE PROTECTION CABINET
142100.A1	ELECTRIC TRACTION ELEVATOR SYSTEM
211120.A1	FIRE-SUPPRESSION STANDPIPE
224500.A1	EMERGENCY SHOWER

GENERAL SHEET NOTES

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GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
THIRD LEVEL FLOOR PLAN- PART A

Sheet No.
2A-132

22

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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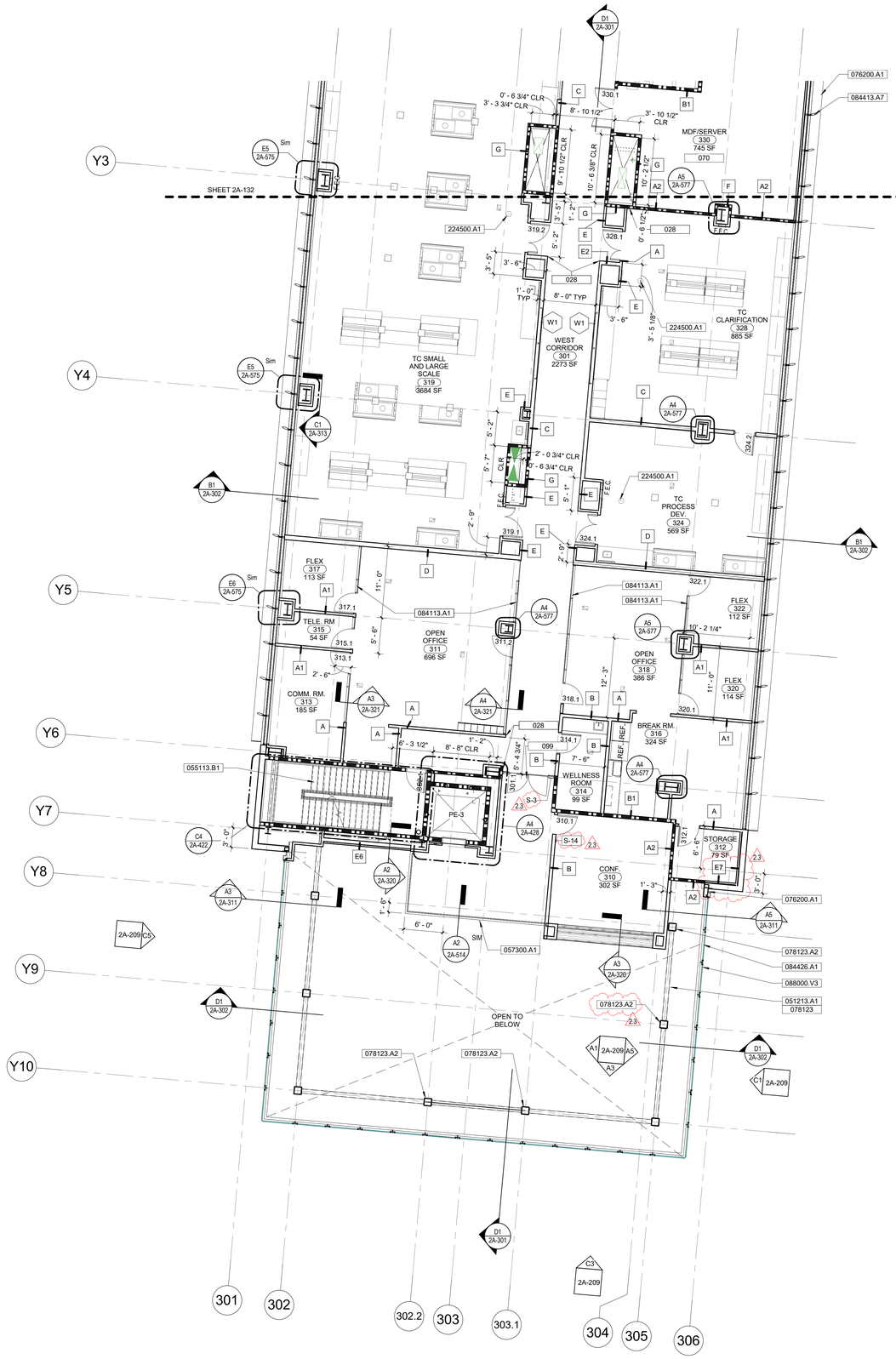

GENERAL SHEET NOTES

2.3
2.2

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14. ALL EXPOSED STRUCTURAL FRAMING IN ATRIUM TO BE COATED WITH 1-HOUR INTUMESCENT PAINT, U.O.N. 2-HOUR AT LOCATIONS INDICATED ON PLANS AND ATRIUM ELEVATIONS SHEET 2A-209
15. ALL WALLS AT WASH ROOMS (AT , SERVERY, AND LEVEL 3 BUFFER ROOM) AND HAZARDOUS WASTE HOLDING ROOMS TO BE SET ON 4" CONC. CURB.
16. REFER TO SHEET A1 / 2G-011 FOR GRID LAYOUTS AND DIMENSIONS
17. REFER TO I SHEETS FOR INTERIOR ELEVATION CALLOUTS.
18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.
19. FOR FIRE RESISTANCE DETAILS SEE SHEETS 2G-110, 2G-111, AND 2G-112.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
051213.A1	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) FRAMING. <SEE STRUCTURAL DRAWINGS>
055113.B1	PREASSEMBLED STEEL STAIRS WITH CONCRETE-FILLED TREADS <DEFERRED APPROVAL>
057300.A1	STAINLESS STEEL CABLE GUARD RAIL
076200.A1	PREFINISHED ALUMINUM FLASHING
078123	INTUMESCENT FIREPROOFING
078123.A2	INTUMESCENT FIRE-RESISTIVE COATING WITH 2-HOUR FIRE-RESISTANCE RATING. SEE GENERAL SHEET NOTES FOR LOCATIONS OF 1-HOUR. (UL 263)
084113.A1	INTERIOR ALUMINUM-FRAMED STOREFRONT SYSTEM, SF-1
084413.A7	SUN CONTROL SYSTEM
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
088000.V3	<GL-3>: LOW-E ULTRA-CLEAR STRUCTURAL INSULATED VISION GLASS -VERTICAL
224500.A1	EMERGENCY SHOWER

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
028	FACE OF WALLS TO ALIGN
070	PROVIDE PAINTED FIRE TREATED PLYWOOD BEHIND ALL WALL MOUNTED EQUIPMENT AND PANELS
099	CARD READERS TO BE CONNECTED TO THE FIRE ALARM SYSTEM AND DEACTIVE IN EVENT OF EMERGENCIES

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582
S-14	ASSISTED LISTENING DEVICE SIGN	SEE DETAIL D6/2A-581
S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

SCALE: 1/8" = 1'

N

A1 | **LEVEL 03- PART B** | 1/8" = 1'-0"

RFI 2-00007 Clarification for Missing Tie-in Dimensions

RFI 2-00007.1 Clarification for Missing Tie-in Dimensions Revision

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

THIRD LEVEL FLOOR PLAN- PART B

Sheet No.

2A-133

2.2

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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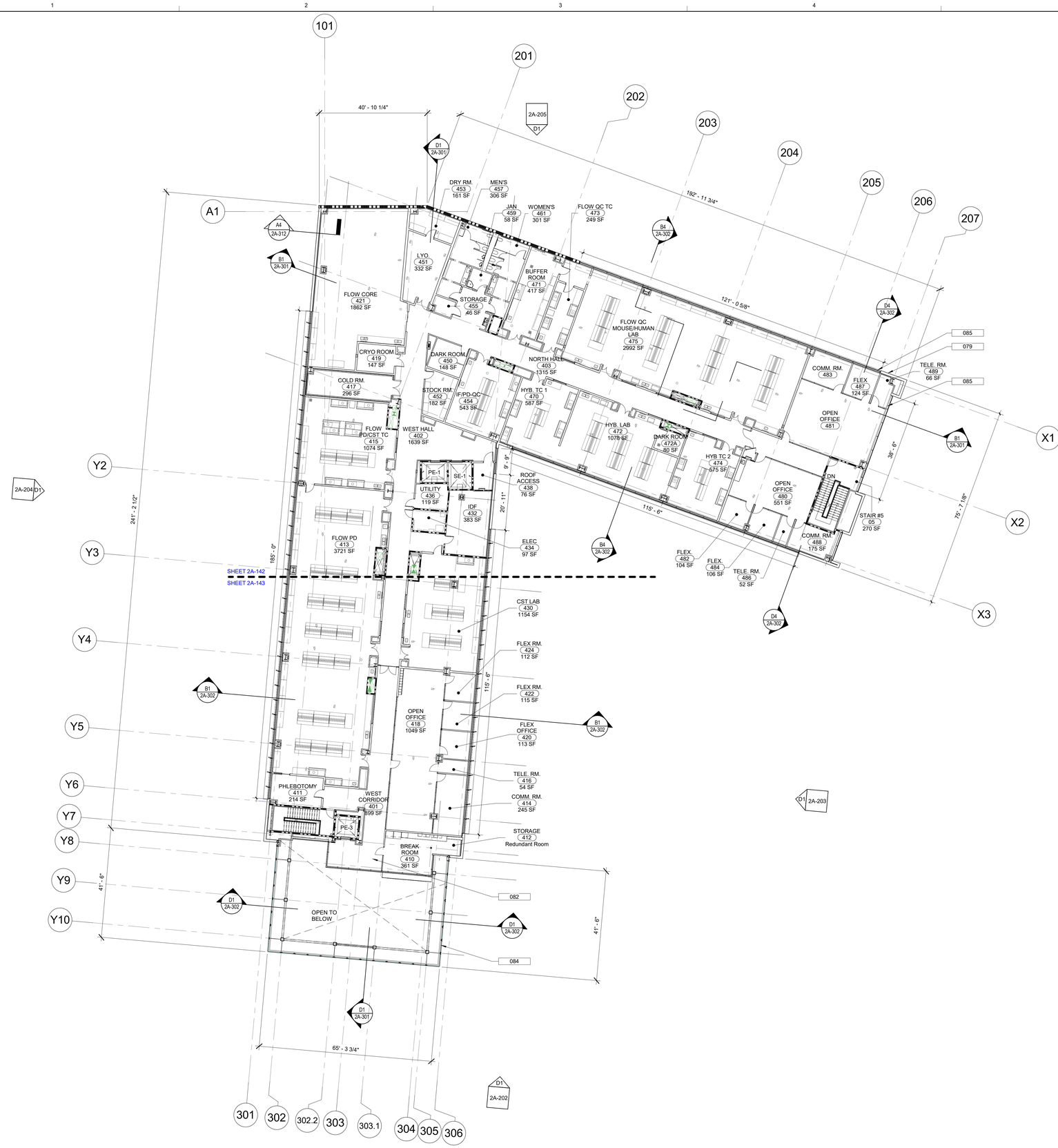


GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C, U.O.N.
4. SEE SHEET 2A-601 FOR WALL TYPES AND SHEET 2A511 FOR FRAMING DETAILS.
5. SEE ENLARGED PLANS FOR ADDITIONAL INFO NOT SHOWN HERE.
6. SEE I SHEETS FOR FINISH PLANS, FINISH SCHEDULE AND TOILET ACCESSORIES SCHEDULE. SEE LF SHEETS FOR LAB FURNISHING PLANS.
7. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
8. ALL ELECTRONIC CARD READER SECURITY DOOR LOCKS MUST BE OPERABLE FOR EXITING UNDER ALL CONDITIONS, INCLUDING POWER OUTAGE.
9. ALL NEW INTERIOR DRYWALL TO BE LEVEL 4 FINISH, EXCEPT:
   LEVEL 3 FINISH @ UTILITY ROOMS, ELECTRICAL ROOMS, STOCK ROOMS, AND JANITOR ROOMS.
   LEVEL 5 FINISH ON ALL WALLS THAT RECEIVE DRY ERASE PAINT PER FINISH SCHEDULE, AND WALLS IN ATRIUM LOBBY AND AT ALL BALCONIES.
9. ROOMS CONTAINING CONTROLS FOR AIR-CONDITIONING SYSTEMS, SPRINKLER RISERS, VALVES OR OTHER FIRE DETECTION SUPPRESSION OR CONTROL ELEMENTS AND UTILITY EQUIPMENT SHALL BE IDENTIFIED PER CFC 509.
10. PROVIDE HAZARDOUS MATERIAL SIGNS @ LAB DOORS AND WHERE COMPRESSED AIR TANKS ARE STORED, SEE DETAIL E1 / 2A-581
11. PROVIDE BACKING AT ALL LOCATIONS OF WALL-MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES PER DETAIL E3 / 2A-511
12. ALL APPLIANCES IN BREAKROOMS (SUCH AS REFRIGERATORS, MICROWAVES AND DISHWASHERS) ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
13. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
14. ALL EXPOSED STRUCTURAL FRAMING IN ATRIUM TO BE COATED WITH 1-HOUR INTUMESCENT PAINT, U.O.N. 2-HOUR AT LOCATIONS INDICATED ON PLANS.
15. ALL WALLS AT WASH ROOMS (AT SERVERY, AND LEVEL 3 BUFFER ROOM) AND HAZARDOUS WASTE HOLDING ROOMS TO BE SET ON 4" CONC. CURB.
16. REFER TO SHEET A1 / 2G-005 FOR GRID LAYOUTS AND DIMENSIONS
17. REFER TO I SHEETS FOR INTERIOR ELEVATION CALLOUTS.
18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
079	TITLE 24 INFO: TYPICAL EXTERIOR WALL R VALUE: CAVITY R19, CONTINUOUS R8
082	TITLE 24 INFO: INTERIOR FLOOR R VALUE: R29
084	TITLE 24 INFO: ATRIUM GLAZING U FACTOR 0.27, SHGC 0.24, VT 0.52
085	TITLE 24 INFO: GLAZING U FACTOR 0.49, SHGC 0.25, VT 0.54

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

A1 LEVEL 04- OVERALL FLOOR PLAN

1/16" = 1'-0"

0 8' 16' 32'

SCALE: 1/16" = 1'

N

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title

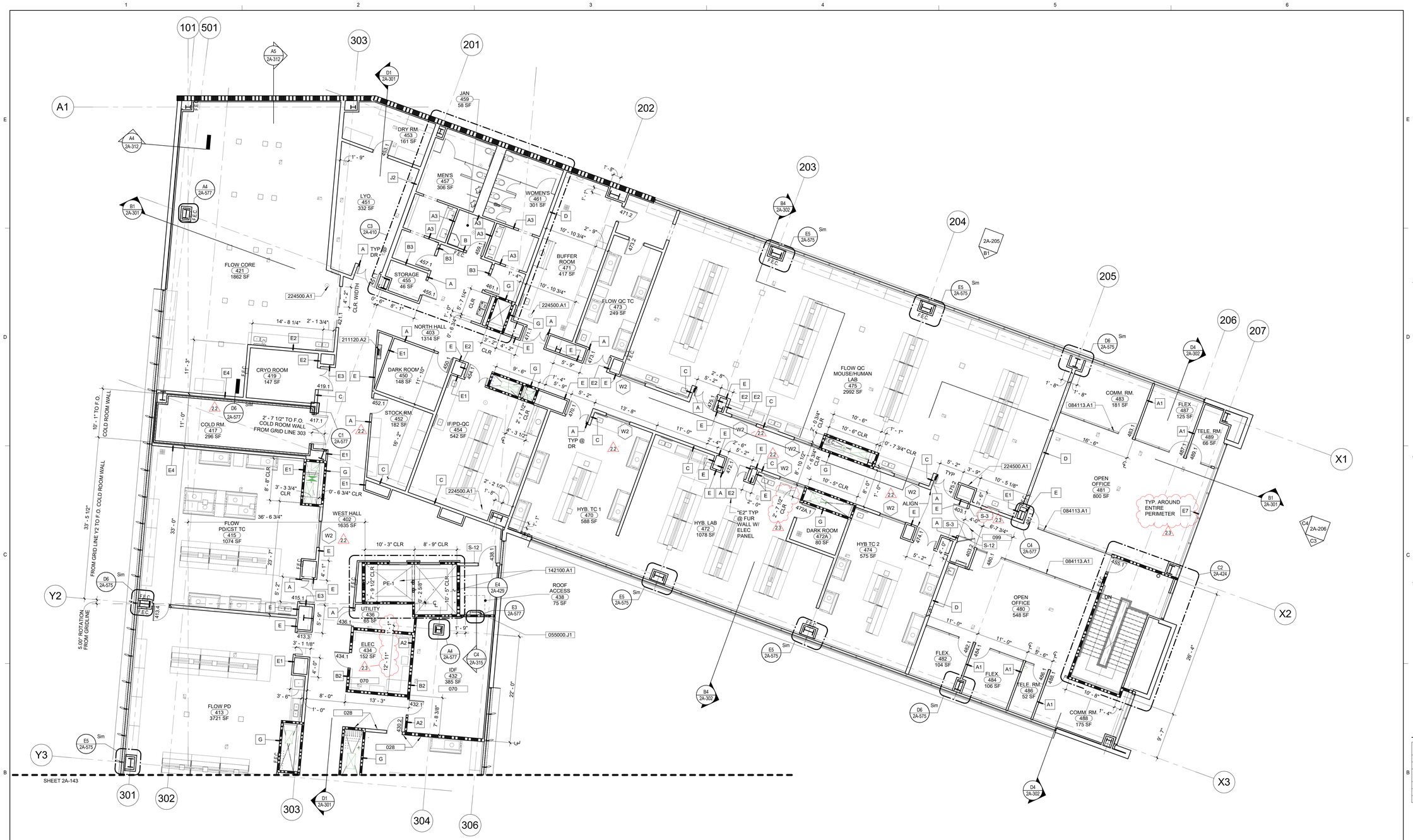
OVERALL FOURTH LEVEL FLOOR PLAN

Sheet No.

2A-141

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

11/20/2017 2:25:24 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



B1 LEVEL 04- PART A

1/8" = 1'-0"

RFI 2-00008 Clarification for Missing Tie-in Dimensions

RFI 2-00008.1 Clarification for Missing Tie-in Dimensions Revision

RFI 2-00086 Slab Edge Confirmation for Levels 4 and 5

SCALE: 1/8" = 1'

N

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582
S-14	ASSISTED LISTENING DEVICE SIGN	SEE DETAIL D6/2A-581
S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
028	FACE OF WALLS TO ALIGN
070	PROVIDE PAINTED FIRE TREATED PLYWOOD BEHIND ALL WALL MOUNTED EQUIPMENT AND PANELS
099	CARD READERS TO BE CONNECTED TO THE FIRE ALARM SYSTEM AND DEACTIVE IN EVENT OF EMERGENCIES

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
055000.J1	STEEL LADDER
084113.A1	INTERIOR ALUMINUM-FRAMED STOREFRONT SYSTEM, SF-1
142100.A1	ELECTRIC TRACTION ELEVATOR SYSTEM
211120.A2	
224500.A1	EMERGENCY SHOWER

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C, U.O.N.
4. SEE SHEET 2A-601 FOR WALL TYPES AND SHEET 2A/511 FOR FRAMING DETAILS.
5. SEE ENLARGED PLANS FOR ADDITIONAL INFO NOT SHOWN HERE.
6. SEE I SHEETS FOR FINISH PLANS, FINISH SCHEDULE AND TOILET ACCESSORIES SCHEDULE. SEE LF SHEETS FOR LAB FURNISHING PLANS.
7. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
8. ALL ELECTRONIC CARD READER SECURITY DOOR LOCKS MUST BE OPERABLE FOR EXITING UNDER ALL CONDITIONS, INCLUDING POWER OUTAGE.
9. ALL NEW INTERIOR DRYWALL TO BE LEVEL 4 FINISH, EXCEPT:
   LEVEL 3 FINISH @ UTILITY ROOMS, ELECTRICAL ROOMS, AND JANITOR ROOMS.
   LEVEL 5 FINISH ON ALL WALLS THAT RECEIVE DRY ERASE PAINT PER FINISH SCHEDULE, AND WALLS IN ATRIUM LOBBY AND AT ALL BALCONIES.
9. ROOMS CONTAINING CONTROLS FOR AIR-CONDITIONING SYSTEMS, SPRINKLER RISERS, VALVES OR OTHER FIRE DETECTION SUPPRESSION OR CONTROL ELEMENTS AND UTILITY EQUIPMENT SHALL BE IDENTIFIED PER CFC 509.
10. PROVIDE HAZARDOUS MATERIAL SIGNS @ LAB DOORS AND WHERE COMPRESSED AIR TANKS ARE STORED, SEE DETAIL E1 / 2A-581
11. PROVIDE BACKING AT ALL LOCATIONS OF WALL-MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES PER DETAIL E3 / 2A-511
12. ALL APPLIANCES IN BREAKROOMS (SUCH AS REFRIGERATORS, MICROWAVES AND DISHWASHERS) ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
13. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
14. ALL EXPOSED STRUCTURAL FRAMING IN ATRIUM TO BE COATED WITH 1-HOUR INTUMESCENT PAINT, U.O.N. 2-HOUR AT LOCATIONS INDICATED ON PLANS AND ATRIUM ELEVATIONS SHEET 2A-209
15. ALL WALLS AT WASH ROOMS (AT , SERVERY, AND LEVEL 3 BUFFER ROOM) AND HAZARDOUS WASTE HOLDING ROOMS TO BE SET ON 4" CONC. CURB.
16. REFER TO SHEET A1 / 2G-011 FOR GRID LAYOUTS AND DIMENSIONS
17. REFER TO I SHEETS FOR INTERIOR ELEVATION CALLOUTS.
18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.
19. FOR FIRE RESISTANCE DETAILS SEE SHEETS 2G-110, 2G-111, AND 2G-112.

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

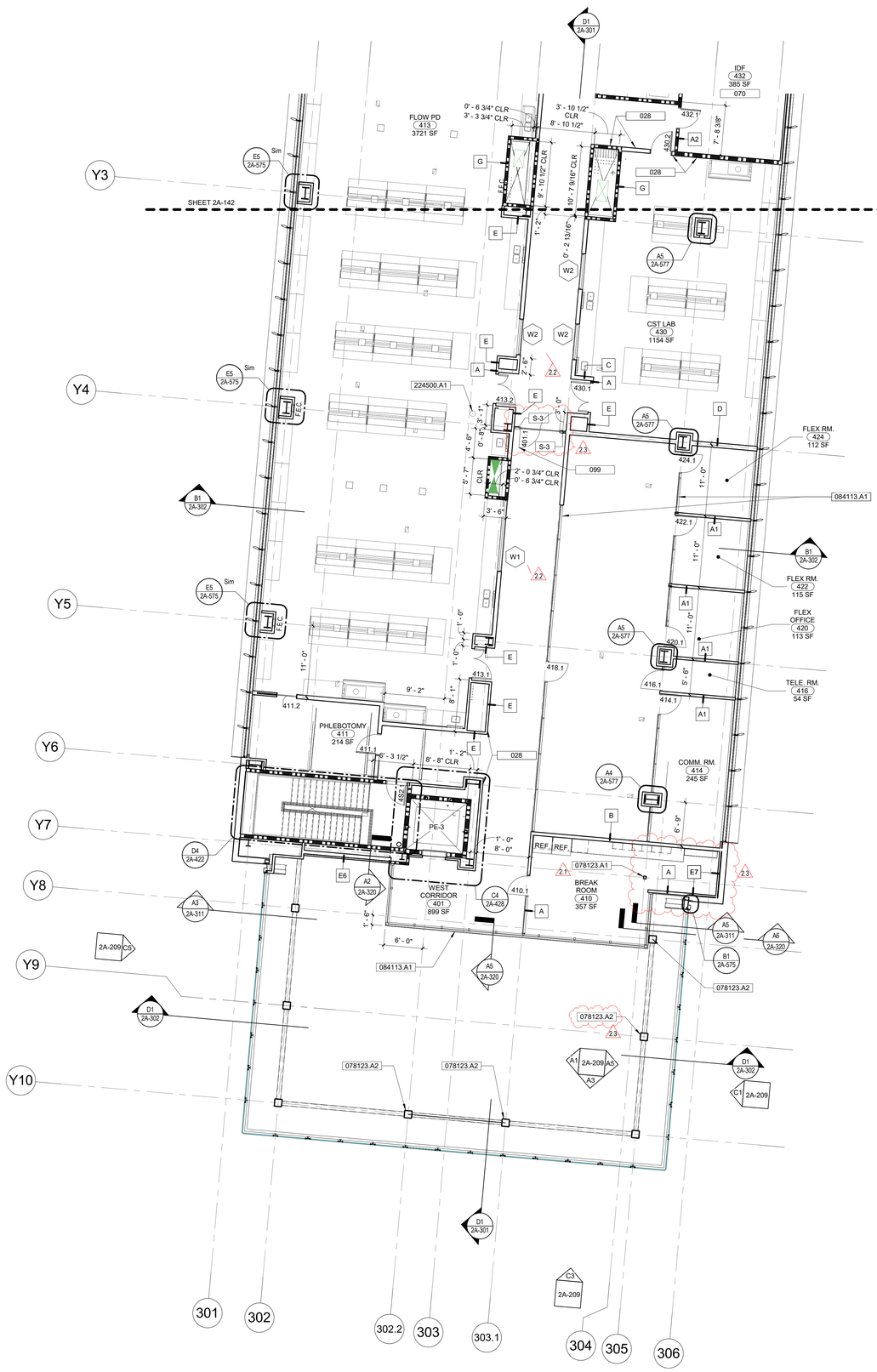
FOURTH LEVEL FLOOR PLAN- PART A

Sheet No.

2A-142

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/20/2017 2:25:36 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



GENERAL SHEET NOTES

2.3

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C, U.O.N.
4. SEE SHEET 2A-601 FOR WALL TYPES AND SHEET 2A/511 FOR FRAMING DETAILS.
5. SEE ENLARGED PLANS FOR ADDITIONAL INFO NOT SHOWN HERE.
6. SEE I SHEETS FOR FINISH PLANS, FINISH SCHEDULE AND TOILET ACCESSORIES SCHEDULE. SEE LF SHEETS FOR LAB FURNISHING PLANS.
7. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
8. ALL ELECTRONIC CARD READER SECURITY DOOR LOCKS MUST BE OPERABLE FOR EXITING UNDER ALL CONDITIONS, INCLUDING POWER OUTAGE.
9. ALL NEW INTERIOR DRYWALL TO BE LEVEL 4 FINISH, EXCEPT: LEVEL 3 FINISH @ UTILITY ROOMS, ELECTRICAL ROOMS, AND JANITOR ROOMS. LEVEL 5 FINISH ON ALL WALLS THAT RECEIVE DRY ERASE PAINT PER FINISH SCHEDULE, AND WALLS IN ATRIUM LOBBY AND AT ALL BALCONIES.

9. ROOMS CONTAINING CONTROLS FOR AIR-CONDITIONING SYSTEMS, SPRINKLER RISERS, VALVES OR OTHER FIRE DETECTION SUPPRESSION OR CONTROL ELEMENTS AND UTILITY EQUIPMENT SHALL BE IDENTIFIED PER CFC 509.
10. PROVIDE HAZARDOUS MATERIAL SIGNS @ LAB DOORS AND WHERE COMPRESSED AIR TANKS ARE STORED, SEE DETAIL E1 / 2A-581
11. PROVIDE BACKING AT ALL LOCATIONS OF WALL-MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES PER DETAIL E3 / 2A-511
12. ALL APPLIANCES IN BREAKROOMS (SUCH AS REFRIGERATORS, MICROWAVES AND DISHWASHERS) ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
13. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
14. ALL EXPOSED STRUCTURAL FRAMING IN ATRIUM TO BE COATED WITH 1-HOUR INTUMESCENT PAINT, U.O.N. 2-HOUR AT LOCATIONS INDICATED ON PLANS AND ATRIUM ELEVATIONS. SHEET 2A-209
15. ALL WALLS AT WASH ROOMS (AT , SERVERY, AND LEVEL 3 BUFFER ROOM) AND HAZARDOUS WASTE HOLDING ROOMS TO BE SET ON 4" CONC. CURB.
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18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.
19. FOR FIRE RESISTANCE DETAILS SEE SHEETS 2G-110, 2G-111, AND 2G-112.

2.2

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
078123.A1	INTUMESCENT FIRE-RESISTIVE COATING WITH 1-HOUR FIRE-RESISTANCE RATING (UL 263)
078123.A2	INTUMESCENT FIRE-RESISTIVE COATING WITH 2-HOUR FIRE-RESISTANCE RATING. SEE GENERAL SHEET NOTES FOR LOCATIONS OF 1-HOUR. (UL 263)
084113.A1	INTERIOR ALUMINUM-FRAMED STOREFRONT SYSTEM, SF-1
224500.A1	EMERGENCY SHOWER

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
028	FACE OF WALLS TO ALIGN
070	PROVIDE PAINTED FIRE TREATED PLYWOOD BEHIND ALL WALL MOUNTED EQUIPMENT AND PANELS
099	CARD READERS TO BE CONNECTED TO THE FIRE ALARM SYSTEM AND DEACTIVE IN EVENT OF EMERGENCIES

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A8/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582
S-14	ASSISTED LISTENING DEVICE SIGN	SEE DETAIL D6/2A-581
S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

A1 | LEVEL 04- PART B | 1/8" = 1'-0"

RFI 2-00008 Clarification for Missing Tie-in Dimensions

RFI 2-00008.1 Clarification for Missing Tie-in Dimensions Revision

RFI 2-00086 Slab Edge Confirmation for Levels 4 and 5

0 4' 8' 16'
SCALE: 1/8" = 1'

N

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

FOURTH LEVEL FLOOR PLAN- PART B

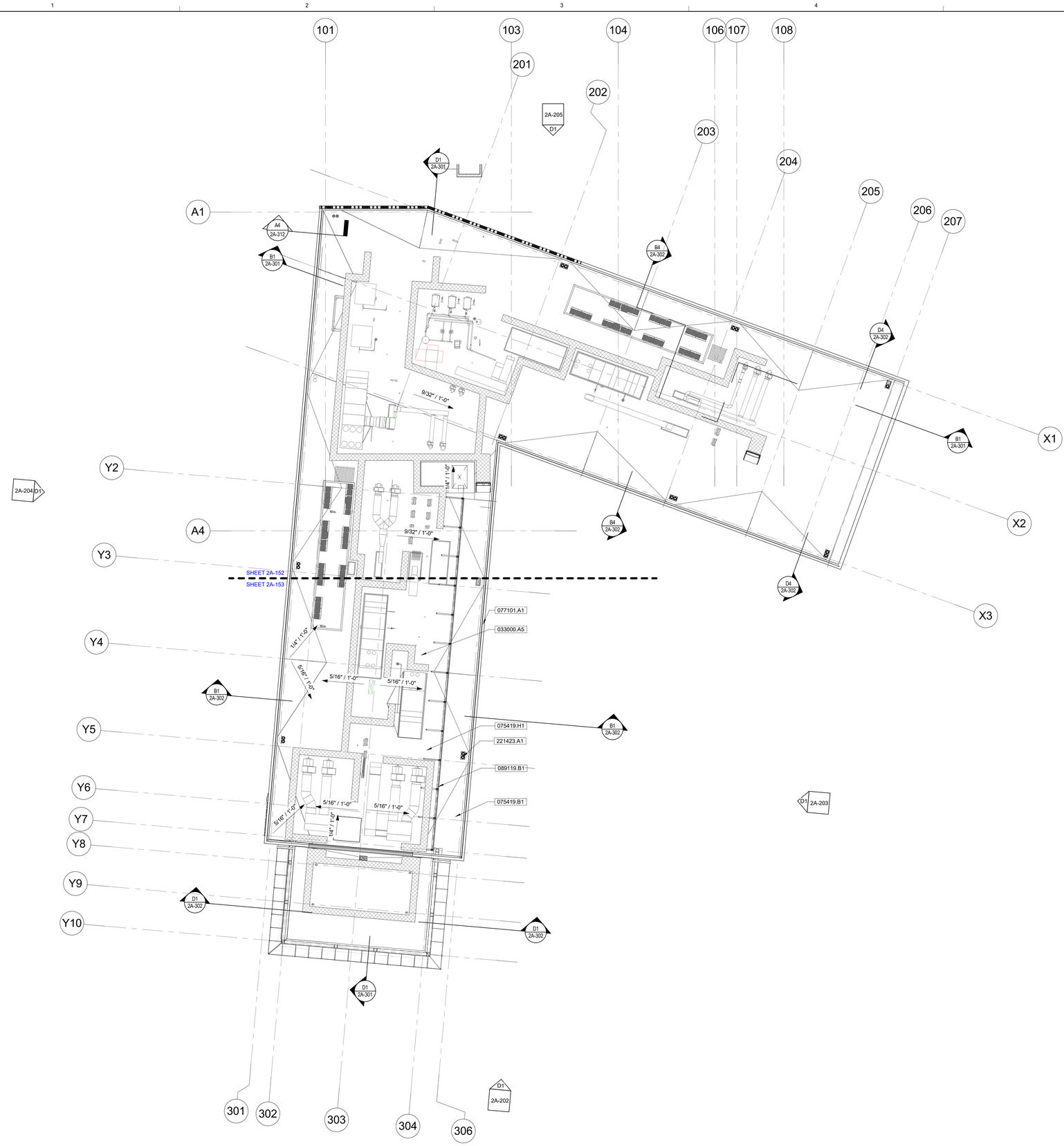
Sheet No.

2A-143

2.2

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

8/8/2017 10:18:55 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A'
075419.H1	FLEXIBLE WALKWAY ROLLS
077101.A1	MANUFACTURED COPINGS
089119.B1	LOUVER SCREEN
221423.A1	ROOF DRAIN AND OVERFLOW, SEE PLUMBING

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

A1 ROOF LEVEL- OVERALL FLOOR PLAN

1/16" = 1'-0"

0 8' 16' 32'

SCALE: 1/16" = 1'

N

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

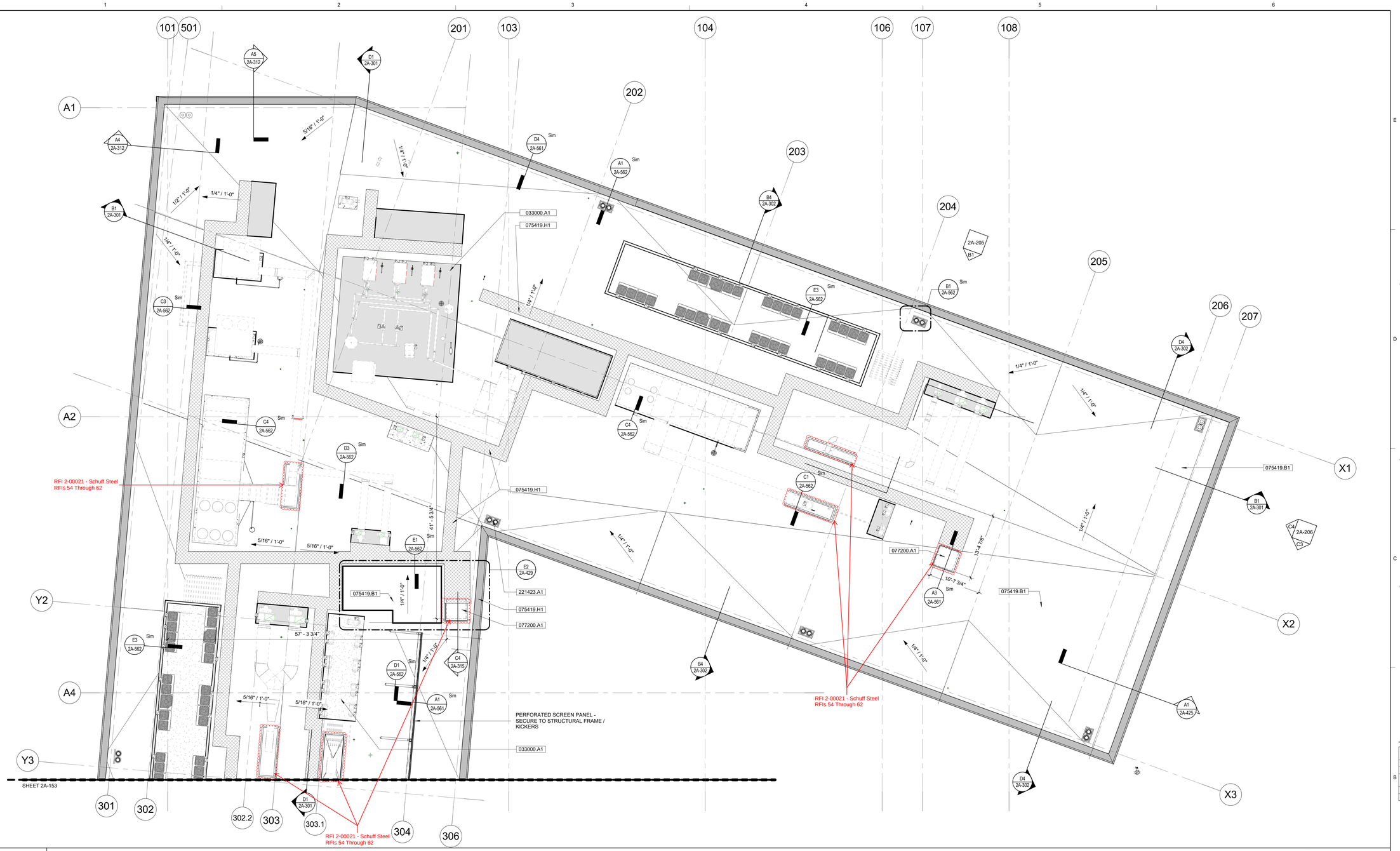
OVERALL
ROOF PLAN

Sheet No.

2A-151

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

11/20/2017 5:26:30 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



B1 ROOF LEVEL- PART A

RFI 2-00086 Slab Edge Confirmation for Levels 4 and 5

1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8" = 1'

N

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A' ICC-ES REPORT ESR-1157
075419.H1	FLEXIBLE WALKWAY ROLLS
077200.A1	ROOF HATCH, 48"X48"
221423.A1	ROOF DRAIN AND OVERFLOW, SEE PLUMBING

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. EXTERIOR FIRE-TEST EXPOSURE: ASTM E 108 OR UL 790, CLASS A; FOR APPLICATION AND ROOF SLOPES INDICATED; TESTING BY A QUALIFIED TESTING AGENCY.
3. SEE SHEET 2S-S55 FOR STRUCTURAL EQUIPMENT PAD DETAILS.

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

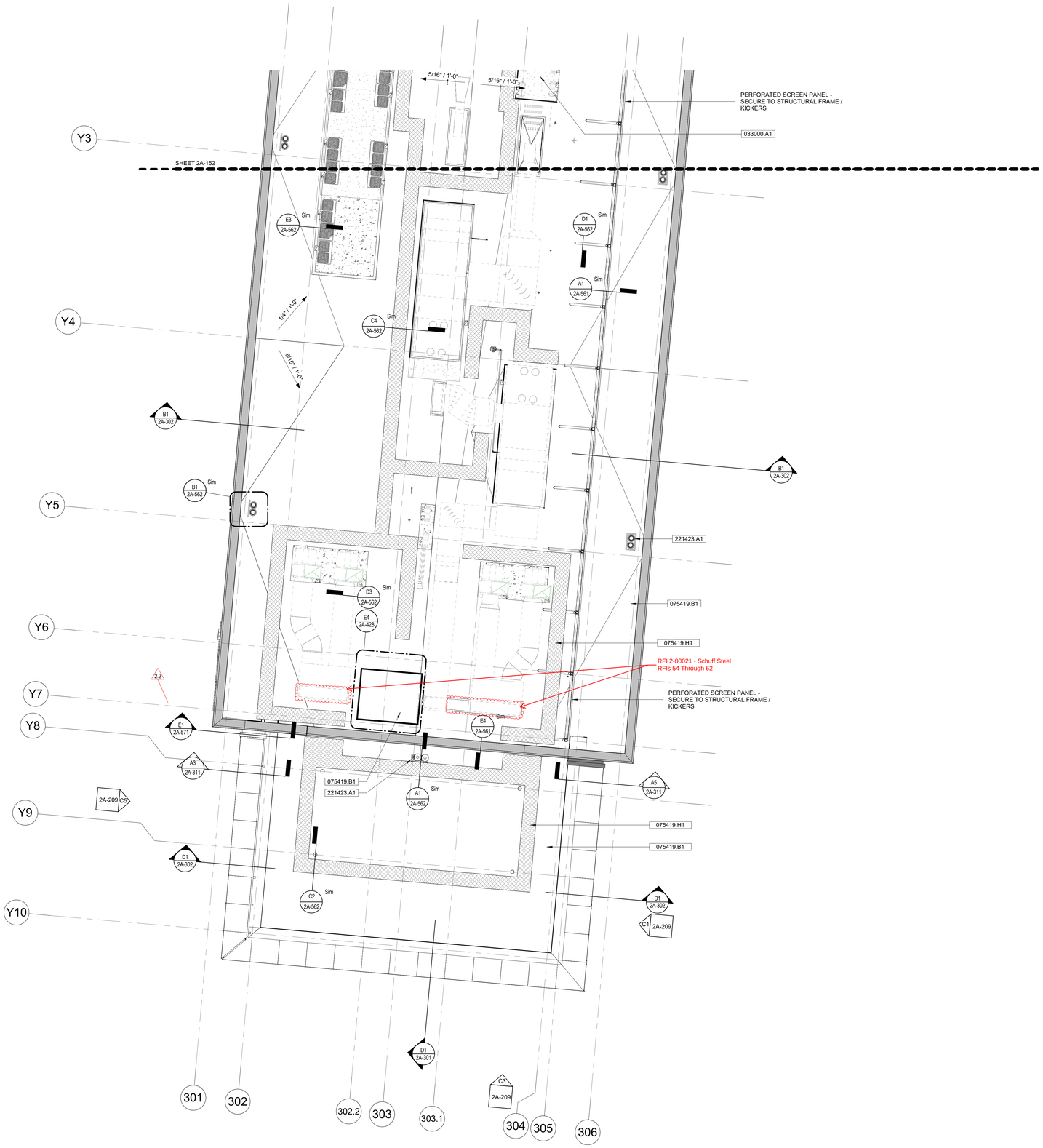
CITY SUBMITTAL SET
08.08.17

Sheet Title
ROOF LEVEL FLOOR PLAN- PART A

Sheet No.
2A-152
2.3

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/20/2017 5:27:15 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. EXTERIOR FIRE-TEST EXPOSURE: ASTM E 108 OR UL 790, CLASS A; FOR APPLICATION AND ROOF SLOPES INDICATED; TESTING BY A QUALIFIED TESTING AGENCY.
3. SEE SHEET 2S-555 FOR STRUCTURAL EQUIPMENT PAD DETAILS.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A' ICC-ES REPORT ESR-1157
075419.H1	FLEXIBLE WALKWAY ROLLS
221423.A1	ROOF DRAIN AND OVERFLOW, SEE PLUMBING

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

A1 **ROOF LEVEL- PART B**

RFI 2-00086 Slab Edge
Confirmation for Levels 4 and 5

1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8" = 1'

N

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

ROOF LEVEL FLOOR PLAN- PART B

Sheet No.
2A-153
2.3

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 3:31:02 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. PROVIDE 3-SIDED AXOM PERIMETER POCKET TRIM AT ALL EXTERIOR WINDOW HEADS WITH ROLLER SHADES. SEE DETAIL D1 / 2A-577
4. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
5. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
6. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C4 / 2A-541
7. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
8. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
9. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
10. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
11. ALL WINDOWS TO HAVE ROLLER SHADES WITH SEISMIC PERIMETER POCKET SEE DETAIL D1 / 2A-577
12. FOR CEILING DETAILS SEE SHEET 2A-541

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - RCP

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER
- 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS (1'X4' 2'X4')
- EXIT SIGN- SEE ELECTRICAL

A1 **LEVEL 01- RCP OVERALL**

1/16" = 1'-0"

0 8" 16" 32"

SCALE: 1/16" = 1'

N

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

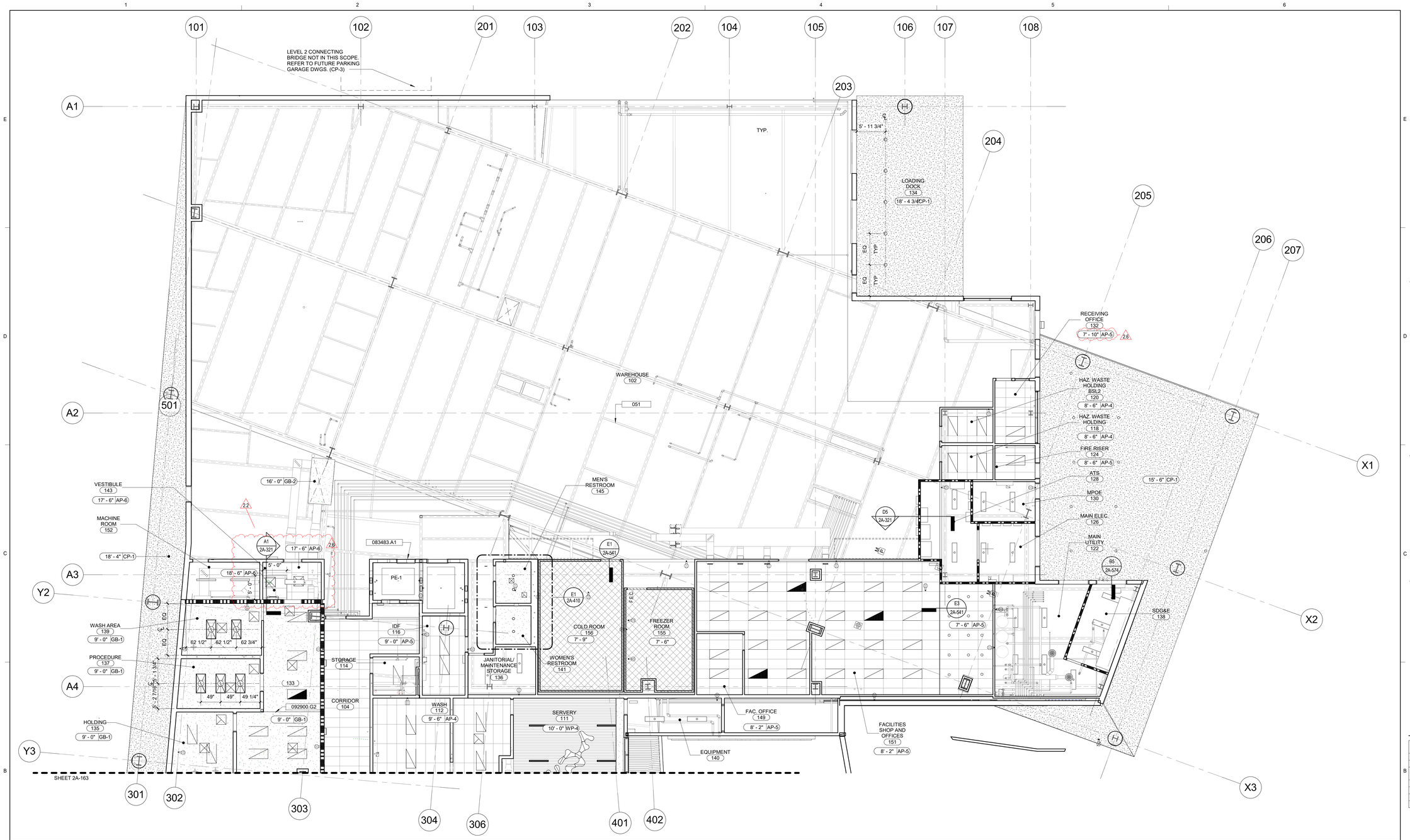
ADDENDUM 2.2
10.03.17

Sheet Title
OVERALL FIRST LEVEL RCP

Sheet No.
2A-161

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

1/23/2018 8:30:27 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



B1 LEVEL 01- RCP PART A

1/8" = 1'-0"

SCALE: 1/8" = 1'

LEGEND - RCP

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER 2.2
- 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS (1'X4' 2'X4')
- EXIT SIGN- SEE ELECTRICAL

CEILING TYPES

TYPE MARK	DESCRIPTION
	2-HR RATED GYPSUM ASSEMBLY, PTD.
AP-1	2' X 4' ACOUSTIC PANEL CEILING (OPEN OFFICE AREAS)
AP-3	2' X 4' ACOUSTIC PANEL CEILING W/ 1' X 4' SERVICE TILE (LABS)
AP-4	2' X 4' ACOUSTIC PANEL CEILING (BUFFER ROOMS AND FOOD AREAS)
AP-5	2' X 4' ACOUSTIC PANEL CEILING (BACK OF HOUSE AREAS)
AP-6	2' X 4' ACOUSTIC PANEL CEILING (LABS)
CP-1	CEMENT PLASTER (EXTERIOR)
CR-1	COLD ROOM CEILING
FCS	FIBER CEMENT SOFFIT
GB-1	GYPSUM BOARD, PTD.
GB-2	2-HR RATED GYPSUM ASSEMBLY, PTD.
LM-1	LINEAR METAL CEILING - EXTERIOR
WD-1	WOOD VENEER PANELS
WP-1	WOOD PANEL CEILING
WP-3	WOOD PANEL CEILING
WP-4	WOOD PANEL CEILING
WP-5	WOOD PANEL CEILING

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
051	OPEN TO STRUCTURE - APPLIED FIREPROOFING EXPOSED

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
083483.A1	ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM-2HR RATED
092900.G2	GYPSUM BOARD CEILING CONTROL JOINT

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
4. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
5. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C6 / 2A-541
6. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
7. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
8. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
9. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
10. FOR WINDOW SHADE WALL-MOUNTED TYPICALLY, SEE DETAIL D1 / 2A-577 . FOR WINDOW SHADE RECESSED IN CEILING SOFFIT AT MULTI-PURPOSE ROOM AND SERVERY, SEE DETAIL C1 / 2A-578
11. FOR CEILING DETAILS SEE SHEET 2A-541

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
FIRST LEVEL RCP- PART A

Sheet No.
2A-162

11/20/2017 11:45:14 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
THIS DRAWING IS NOT TO BE USED IN CONNECTION WITH ANY OTHER PROJECT OR LOCATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
4. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
5. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C6 / 2A-541
6. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
7. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
8. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
9. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
10. FOR WINDOW SHADE WALL-MOUNTED TYPICALLY, SEE DETAIL D1 / 2A-577 FOR WINDOW SHADE RECESSED IN CEILING SOFFIT AT MULTI-PURPOSE ROOM AND SERVERY, SEE DETAIL C1 / 2A-578
11. FOR CEILING DETAILS SEE SHEET 2A-541

CEILING TYPES

TYPE MARK	DESCRIPTION
	2-HR RATED GYPSUM ASSEMBLY, PTD.
AP-1	2' X 4' ACOUSTIC PANEL CEILING (OPEN OFFICE AREAS)
AP-3	2' X 4' ACOUSTIC PANEL CEILING W/ 1' X 4' SERVICE TILE (LABS)
AP-4	2' X 4' ACOUSTIC PANEL CEILING (BUFFER ROOMS AND FOOD AREAS)
AP-5	2' X 4' ACOUSTIC PANEL CEILING (BACK OF HOUSE AREAS)
AP-6	2' X 4' ACOUSTIC PANEL CEILING (LABS)
CP-1	CEMENT PLASTER (EXTERIOR)
CR-1	COLD ROOM CEILING
FCS	FIBER CEMENT SOFFIT
GB-1	GYPSUM BOARD, PTD.
GB-2	2-HR RATED GYPSUM ASSEMBLY, PTD.
LM-1	LINEAR METAL CEILING - EXTERIOR
WD-1	WOOD VENEER PANELS
WP-1	WOOD PANEL CEILING
WP-3	WOOD PANEL CEILING
WP-4	WOOD PANEL CEILING
WP-5	WOOD PANEL CEILING

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
083113.A1	RECESSED ACCESS DOOR WITH CONCEALED FLANGES AND GYPSUM BOARD INFILL
083483.A1	ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM-2HR RATED
092900.G2	GYPSUM BOARD CEILING CONTROL JOINT
122413.A2	ROLLER WINDOW SHADE ASSEMBLY, MOTOR OPERATED. SEE FINISH LEGEND.
265119.A1	LED INTERIOR LIGHTING

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - RCP

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER 2.2
- 1'X4' 2'X4' 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS
- EXIT SIGN- SEE ELECTRICAL

A1 | **LEVEL 01- RCP PART B**

D1 / 2A-203 | 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8" = 1'

N

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
FIRST LEVEL
RCP- PART B

Sheet No.
2A-163

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 3:31:24 PM
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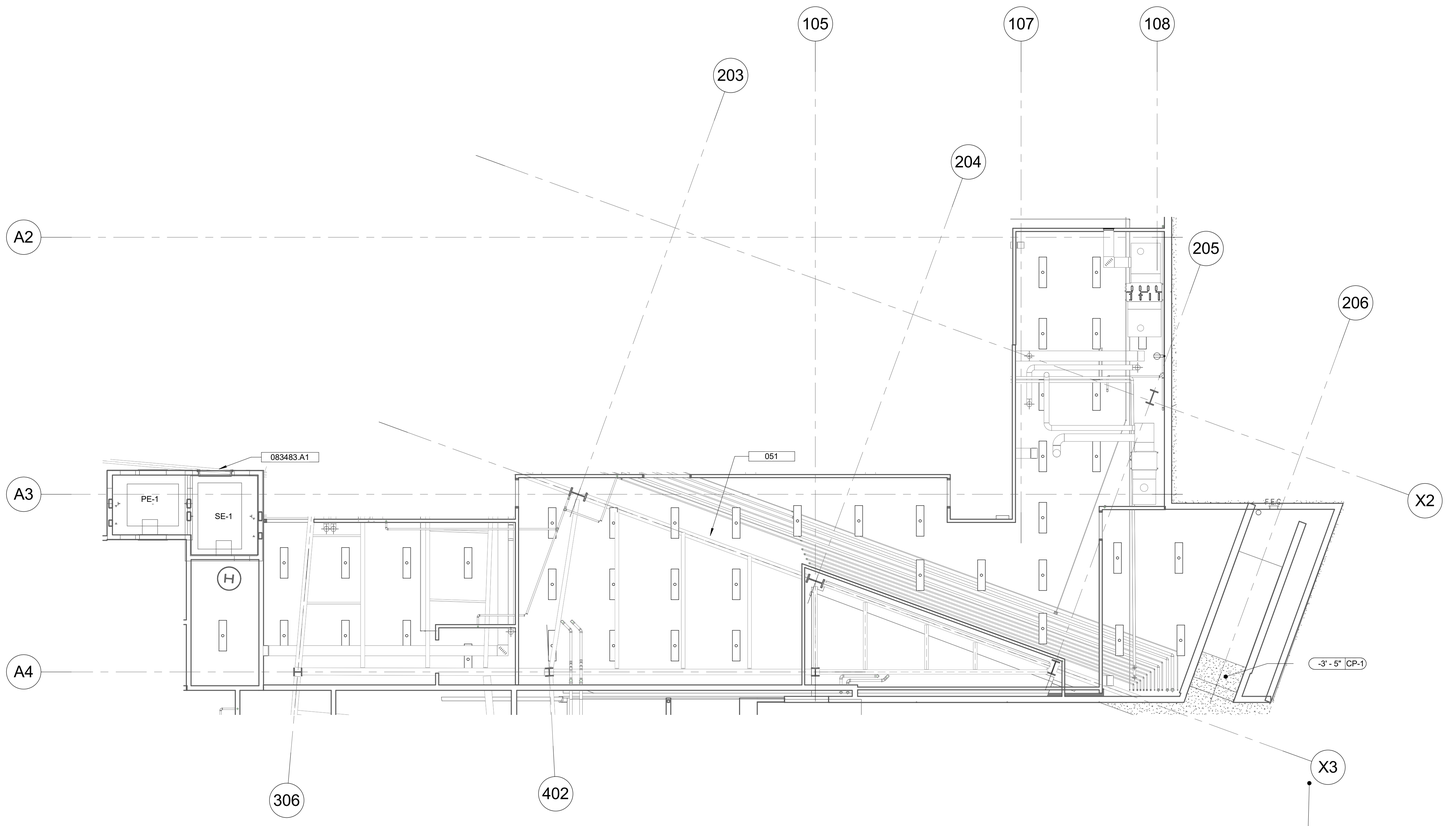


GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. PROVIDE 3-SIDED AXIOM PERIMETER POCKET TRIM AT ALL EXTERIOR WINDOW HEADS WITH ROLLER SHADES. SEE DETAIL D1 / 2A-577
4. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
5. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
6. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C4 / 2A-541
7. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
8. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
9. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
10. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
11. ALL WINDOWS TO HAVE ROLLER SHADES WITH SEISMIC PERIMETER POCKET SEE DETAIL D1 / 2A-577
12. FOR CEILING DETAILS SEE SHEET 2A-541

22
12

CEILING TYPES

TYPE MARK	DESCRIPTION
	2-HR RATED GYPSUM ASSEMBLY, PTD.
AP-1	2' X 4' ACOUSTIC PANEL CEILING (OPEN OFFICE AREAS)
AP-3	2' X 4' ACOUSTIC PANEL CEILING W/ 1' X 4' SERVICE TILE (LABS)
AP-4	2' X 4' ACOUSTIC PANEL CEILING (BUFFER ROOMS AND FOOD AREAS)
AP-5	2' X 4' ACOUSTIC PANEL CEILING (BACK OF HOUSE AREAS)
AP-6	2' X 4' ACOUSTIC PANEL CEILING (LABS)
CP-1	CEMENT PLASTER (EXTERIOR)
CR-1	COLD ROOM CEILING
FCS	FIBER CEMENT SOFFIT
GB-1	GYPSUM BOARD, PTD.
GB-2	2-HR RATED GYPSUM ASSEMBLY, PTD.
LM-1	LINEAR METAL CEILING - EXTERIOR
WD-1	WOOD VENEER PANELS
WP-1	WOOD PANEL CEILING
WP-3	WOOD PANEL CEILING
WP-4	WOOD PANEL CEILING
WP-5	WOOD PANEL CEILING

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
083483.A1	ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
051	OPEN TO STRUCTURE - APPLIED FIREPROOFING EXPOSED

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

ADDENDUM 2.2
10.03.17

Sheet Title

MEZZANINE
LEVEL RCP

Sheet No.

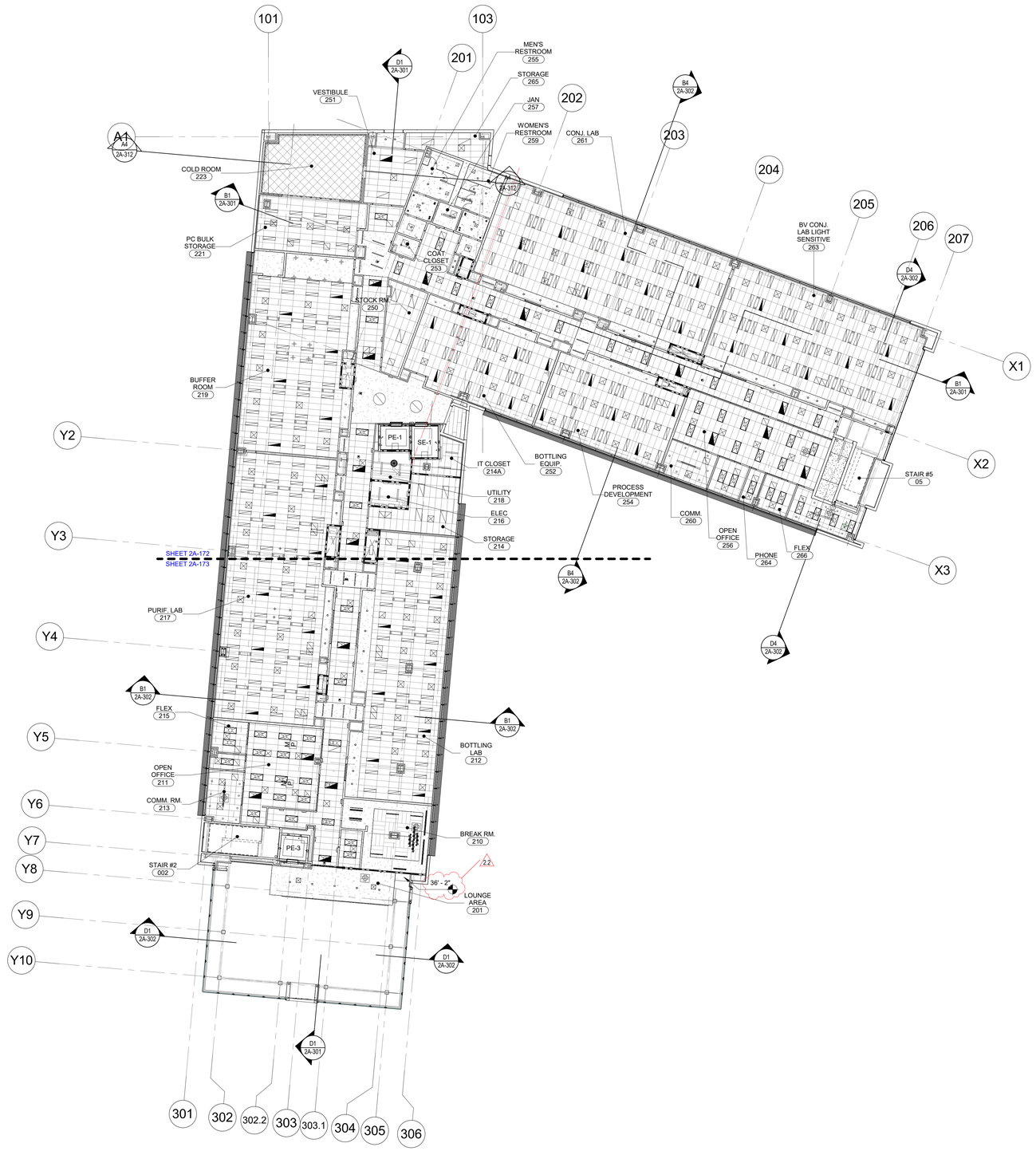
2A-164

A1 **LEVEL 01.9-Z2 - RCP**

1/8" = 1'-0"

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

10/2/2017 3:31:37 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. PROVIDE 3-SIDED AXOM PERIMETER POCKET TRIM AT ALL EXTERIOR WINDOW HEADS WITH ROLLER SHADES. SEE DETAIL D1 / 2A-577
4. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
5. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
6. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C4 / 2A-541
7. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
8. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
9. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
10. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
11. ALL WINDOWS TO HAVE ROLLER SHADES WITH SEISMIC PERIMETER POCKET SEE DETAIL D1 / 2A-577
12. FOR CEILING DETAILS SEE SHEET 2A-541

2.2

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - RCP

2.2

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER
- 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS (1'X4' 2'X4') — 2.2
- EXIT SIGN- SEE ELECTRICAL

0 8' 16' 32'
SCALE: 1/16" = 1'

N

A1 | **LEVEL 02- RCP OVERALL**
1/16" = 1'-0"

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
OVERALL SECOND LEVEL RCP

Sheet No.
2A-171

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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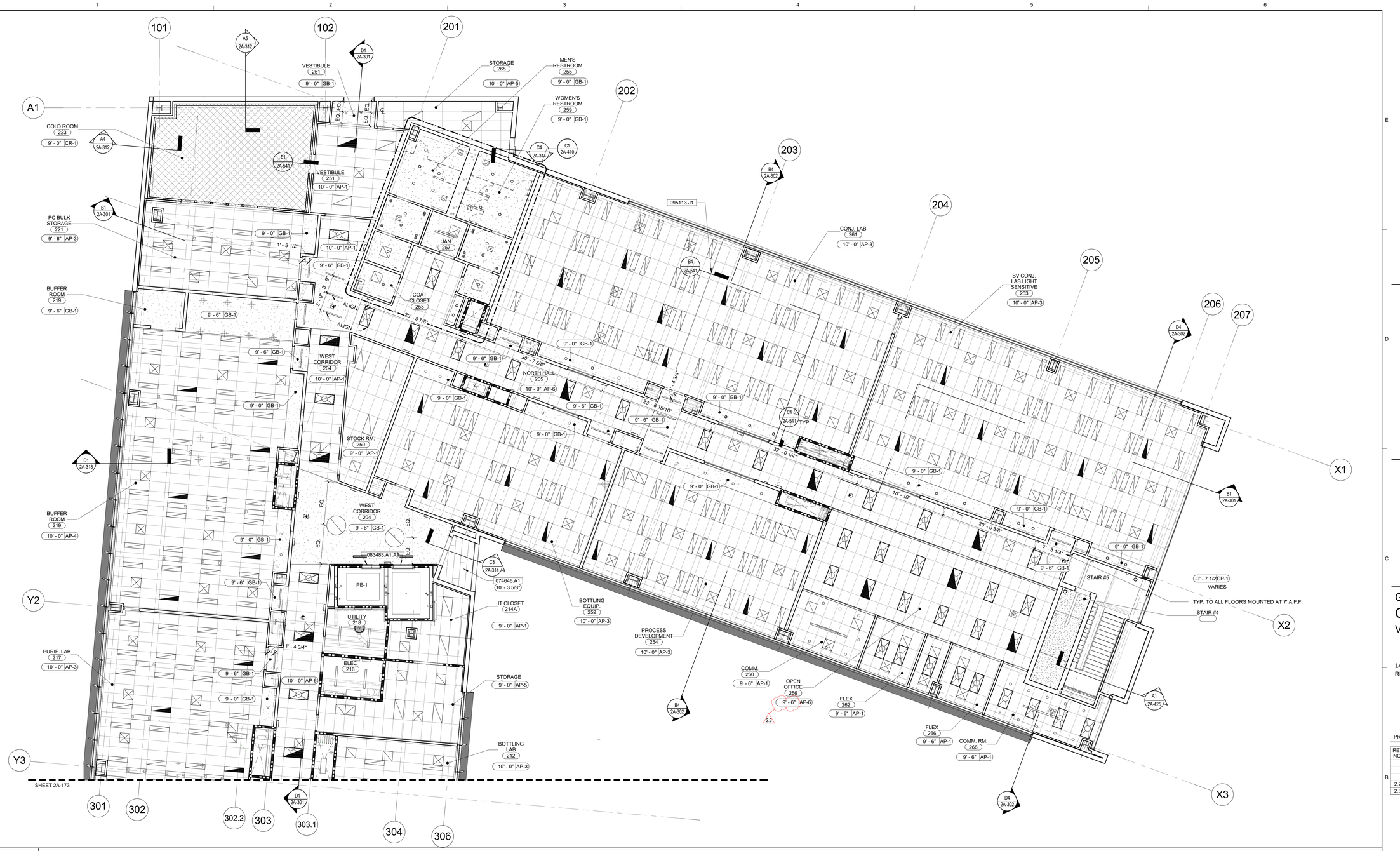

B1 LEVEL 02- RCP PART A

1/8" = 1'-0"

SCALE: 1/8" = 1'

LEGEND - RCP

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER
- 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS (1'X4' 2'X4')
- EXIT SIGN- SEE ELECTRICAL

CEILING TYPES

TYPE MARK	DESCRIPTION
	2-HR RATED GYPSUM ASSEMBLY, PTD.
AP-1	2' X 4' ACOUSTIC PANEL CEILING (OPEN OFFICE AREAS)
AP-3	2' X 4' ACOUSTIC PANEL CEILING W/ 1' X 4' SERVICE TILE (LABS)
AP-4	2' X 4' ACOUSTIC PANEL CEILING (BUFFER ROOMS AND FOOD AREAS)
AP-5	2' X 4' ACOUSTIC PANEL CEILING (BACK OF HOUSE AREAS)
AP-6	2' X 4' ACOUSTIC PANEL CEILING (LABS)
CP-1	CEMENT PLASTER (EXTERIOR)
CR-1	COLD ROOM CEILING
FCS	FIBER CEMENT SOFFIT
GB-1	GYPSUM BOARD, PTD.
GB-2	2-HR RATED GYPSUM ASSEMBLY, PTD.
LM-1	LINEAR METAL CEILING - EXTERIOR
WD-1	WOOD VENEER PANELS
WP-1	WOOD PANEL CEILING
WP-3	WOOD PANEL CEILING
WP-4	WOOD PANEL CEILING
WP-5	WOOD PANEL CEILING

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
074646.A1	FIBER-CEMENT SIDING SYSTEM
083483.A1	ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM-2HR RATED
095113.J1	ACOUSTICAL PANEL CEILINGS SEISMIC JOINT

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
4. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
5. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C6 / 2A-541
6. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
7. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
8. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
9. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
10. FOR WINDOW SHADE WALL-MOUNTED TYPICALLY, SEE DETAIL D1 / 2A-577 FOR WINDOW SHADE RECESSED IN CEILING SOFFIT AT MULTI-PURPOSE ROOM AND SERVERY, SEE DETAIL C1 / 2A-578
11. FOR CEILING DETAILS SEE SHEET 2A-541

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
SECOND LEVEL RCP- PART A

Sheet No.
2A-172

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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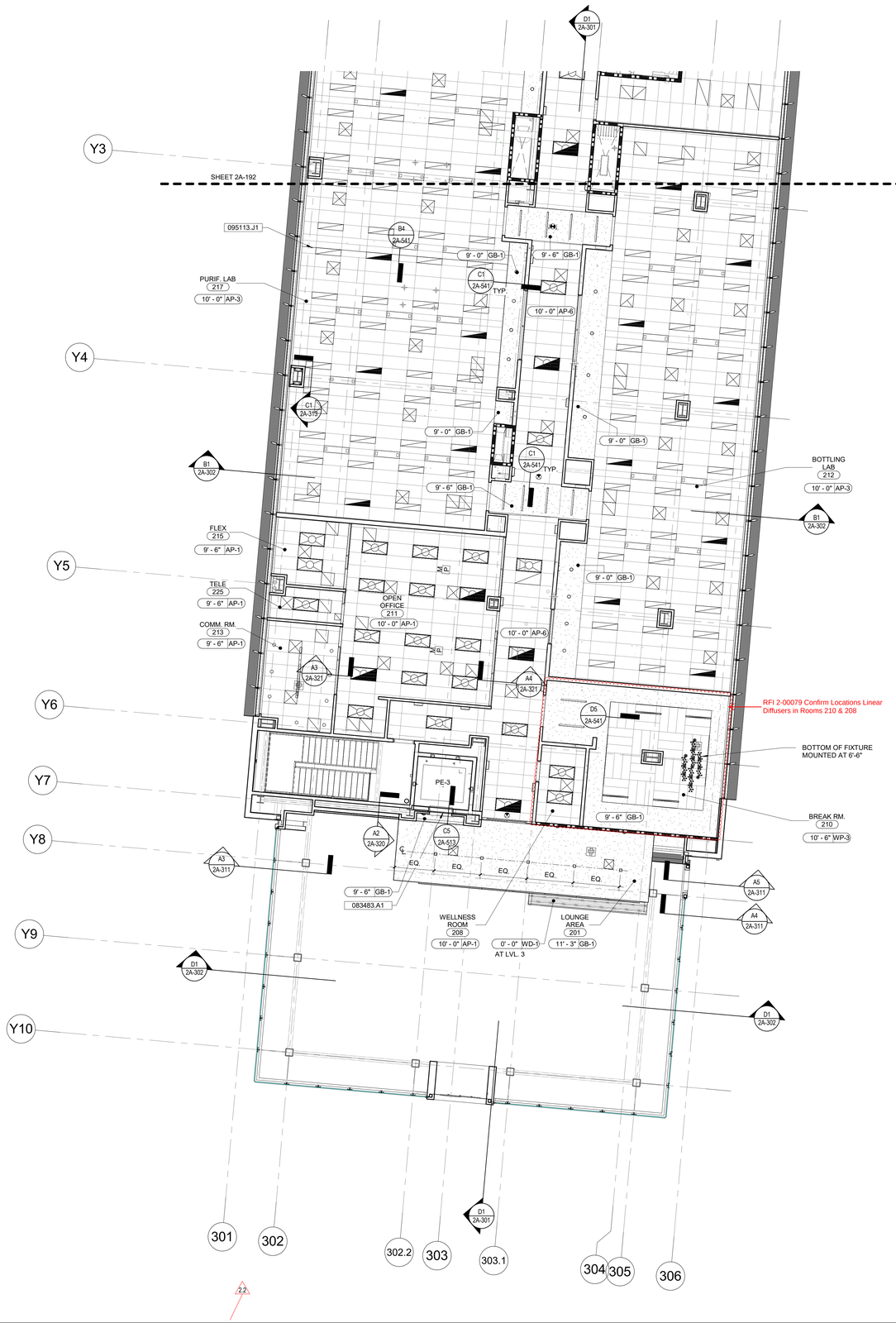


GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
4. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
5. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C6 / 2A-541
6. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
7. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
8. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
9. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
10. FOR WINDOW SHADE WALL-MOUNTED TYPICALLY, SEE DETAIL D1 / 2A-577 FOR WINDOW SHADE RECESSED IN CEILING SOFFIT AT MULTI-PURPOSE ROOM AND SERVERY, SEE DETAIL C1 / 2A-578
11. FOR CEILING DETAILS SEE SHEET 2A-541

2.3

2.2

CEILING TYPES

TYPE MARK	DESCRIPTION
	2-HR RATED GYPSUM ASSEMBLY, PTD.
AP-1	2' X 4' ACOUSTIC PANEL CEILING (OPEN OFFICE AREAS)
AP-3	2' X 4' ACOUSTIC PANEL CEILING W/ 1' X 4' SERVICE TILE (LABS)
AP-4	2' X 4' ACOUSTIC PANEL CEILING (BUFFER ROOMS AND FOOD AREAS)
AP-5	2' X 4' ACOUSTIC PANEL CEILING (BACK OF HOUSE AREAS)
AP-6	2' X 4' ACOUSTIC PANEL CEILING (LABS)
CP-1	CEMENT PLASTER (EXTERIOR)
CR-1	COLD ROOM CEILING
FCS	FIBER CEMENT SOFFIT
GB-1	GYPSUM BOARD, PTD.
GB-2	2-HR RATED GYPSUM ASSEMBLY, PTD.
LM-1	LINEAR METAL CEILING - EXTERIOR
WD-1	WOOD VENEER PANELS
WP-1	WOOD PANEL CEILING
WP-3	WOOD PANEL CEILING
WP-4	WOOD PANEL CEILING
WP-5	WOOD PANEL CEILING

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
083483.A1	ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM-2HR RATED
095113.J1	ACOUSTICAL PANEL CEILINGS SEISMIC JOINT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

2.2

LEGEND - RCP

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER 2.2
- 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS (1'X4' 2'X4')
- EXIT SIGN- SEE ELECTRICAL

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.07.17

Sheet Title

SECOND LEVEL RCP- PART B

Sheet No.

2A-173

A1 LEVEL 02- RCP PART B

1/8" = 1'-0"

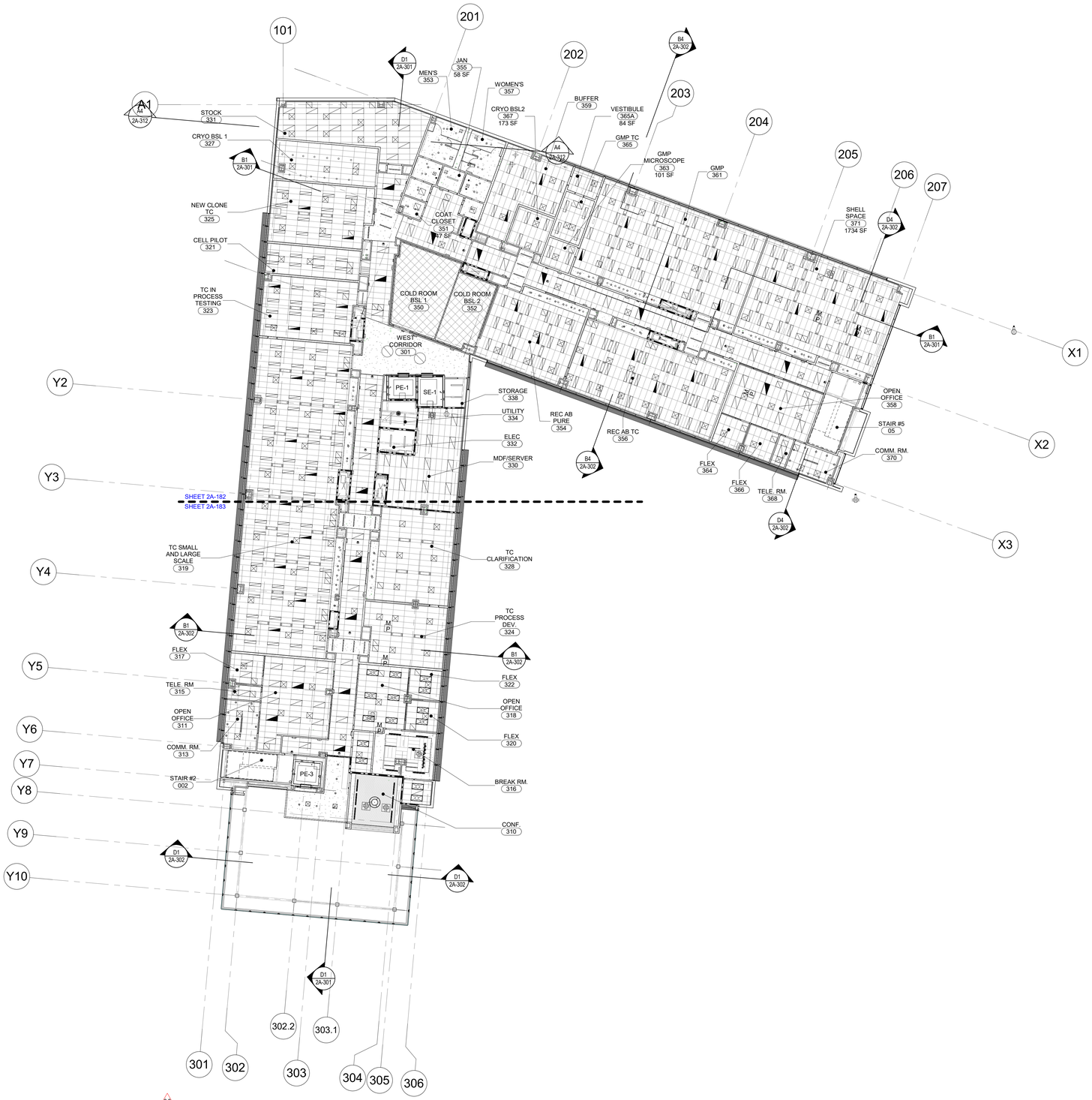
SCALE: 1/8" = 1'

0 4' 8' 16'

N

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 3:32:14 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



A1 LEVEL 03- OVERALL RCP

1/16" = 1'-0"

0 8' 16' 32'

SCALE: 1/16" = 1'

N

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. PROVIDE 3-SIDED AXOM PERIMETER POCKET TRIM AT ALL EXTERIOR WINDOW HEADS WITH ROLLER SHADES. SEE DETAIL D1 / 2A-577
4. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
5. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
6. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C4 / 2A-541
7. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
8. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
9. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
10. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
11. ALL WINDOWS TO HAVE ROLLER SHADES WITH SEISMIC PERIMETER POCKET SEE DETAIL D1 / 2A-577
12. FOR CEILING DETAILS SEE SHEET 2A-541

2.2

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - RCP

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER
- 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS (1'X4' 2'X4')
- EXIT SIGN- SEE ELECTRICAL

2.2

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
OVERALL THIRD LEVEL RCP

Sheet No.
2A-181

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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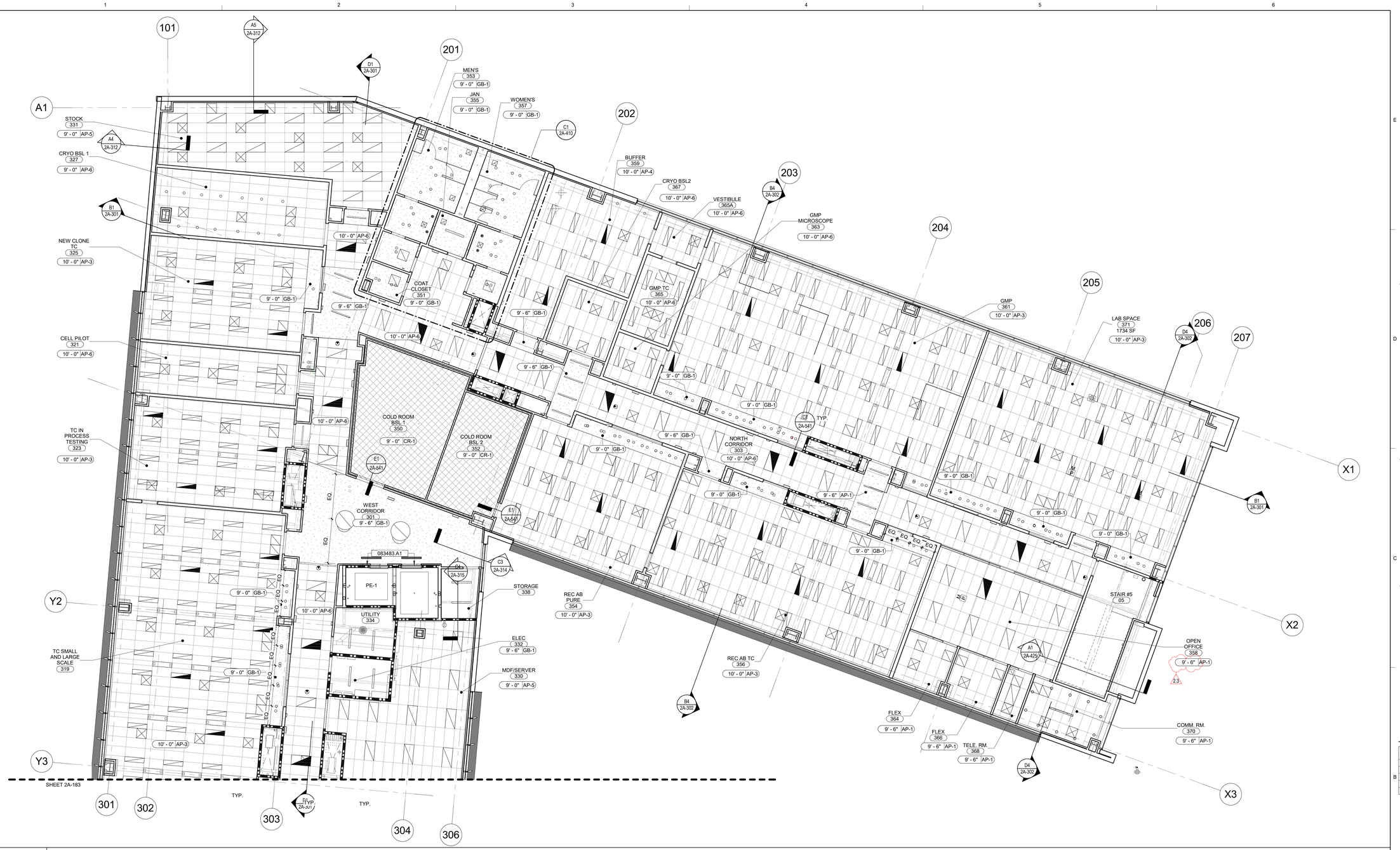

B1 LEVEL 03- RCP PART A

1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8" = 1'

N

LEGEND - RCP

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER (2.2)
- 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS (1'X4' 2'X4')
- EXIT SIGN- SEE ELECTRICAL

CEILING TYPES

TYPE MARK	DESCRIPTION
	2-HR RATED GYPSUM ASSEMBLY, PTD.
AP-1	2' X 4' ACOUSTIC PANEL CEILING (OPEN OFFICE AREAS)
AP-3	2' X 4' ACOUSTIC PANEL CEILING W/ 1" X 4' SERVICE TILE (LABS)
AP-4	2' X 4' ACOUSTIC PANEL CEILING (BUFFER ROOMS AND FOOD AREAS)
AP-5	2' X 4' ACOUSTIC PANEL CEILING (BACK OF HOUSE AREAS)
AP-6	2' X 4' ACOUSTIC PANEL CEILING (LABS)
CP-1	CEMENT PLASTER (EXTERIOR)
CR-1	COLD ROOM CEILING
FCS	FIBER CEMENT SOFFIT
GB-1	GYPSUM BOARD, PTD.
GB-2	2-HR RATED GYPSUM ASSEMBLY, PTD.
LM-1	LINEAR METAL CEILING - EXTERIOR
WD-1	WOOD VENEER PANELS
WP-1	WOOD PANEL CEILING
WP-3	WOOD PANEL CEILING
WP-4	WOOD PANEL CEILING
WP-5	WOOD PANEL CEILING

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
083483.A1	ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM-2HR RATED

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. ALL SPRINKLER HEADS IN A TRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
4. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
5. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C6 / 2A-541
6. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
7. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
8. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
9. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
10. FOR WINDOW SHADE WALL-MOUNTED TYPICALLY, SEE DETAIL D1 / 2A-577 FOR WINDOW SHADE RECESSED IN CEILING SOFFIT AT MULTI-PURPOSE ROOM AND SERVERY, SEE DETAIL C1 / 2A-578
11. FOR CEILING DETAILS SEE SHEET 2A-541

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
THIRD LEVEL RCP- PART A

Sheet No.
2A-182

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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11/17/2017 1:03:13 PM



0 4' 8' 16'

SCALE: 1/8" = 1'

N

A1 LEVEL 03- RCP PART B

1/8" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
4. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
5. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C6 / 2A-541
6. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
7. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
8. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
9. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
10. FOR WINDOW SHADE WALL-MOUNTED TYPICALLY, SEE DETAIL D1 / 2A-577
    FOR WINDOW SHADE RECESSED IN CEILING SOFFIT AT MULTI-PURPOSE ROOM AND SERVERY, SEE DETAIL C1 / 2A-578
11. FOR CEILING DETAILS SEE SHEET 2A-541

CEILING TYPES

TYPE MARK	DESCRIPTION
	2-HR RATED GYPSUM ASSEMBLY, PTD.
AP-1	2' X 4' ACOUSTIC PANEL CEILING (OPEN OFFICE AREAS)
AP-3	2' X 4' ACOUSTIC PANEL CEILING W/ 1' X 4' SERVICE TILE (LABS)
AP-4	2' X 4' ACOUSTIC PANEL CEILING (BUFFER ROOMS AND FOOD AREAS)
AP-5	2' X 4' ACOUSTIC PANEL CEILING (BACK OF HOUSE AREAS)
AP-6	2' X 4' ACOUSTIC PANEL CEILING (LABS)
CP-1	CEMENT PLASTER (EXTERIOR)
CR-1	COLD ROOM CEILING
FCS	FIBER CEMENT SOFFIT
GB-1	GYPSUM BOARD, PTD.
GB-2	2-HR RATED GYPSUM ASSEMBLY, PTD.
LM-1	LINEAR METAL CEILING - EXTERIOR
WD-1	WOOD VENEER PANELS
WP-1	WOOD PANEL CEILING
WP-3	WOOD PANEL CEILING
WP-4	WOOD PANEL CEILING
WP-5	WOOD PANEL CEILING

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
083483.A1	ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM-2HR RATED
095113.J1	ACOUSTICAL PANEL CEILINGS SEISMIC JOINT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - RCP

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER
- 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS (1'X4' 2'X4')
- EXIT SIGN- SEE ELECTRICAL

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

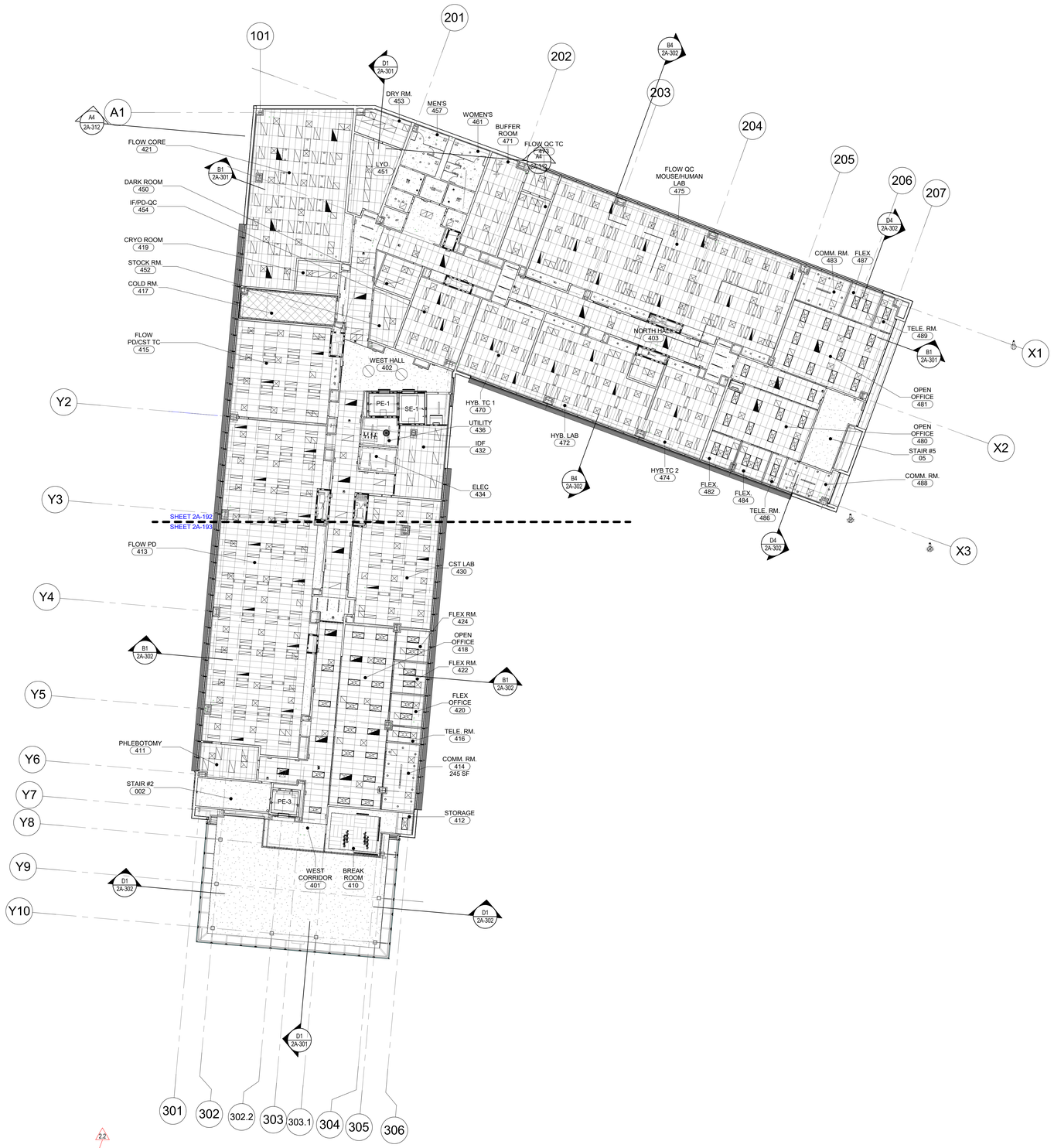
CITY SUBMITTAL SET
08.08.17

Sheet Title
THIRD LEVEL RCP- PART B

Sheet No.
2A-183

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 3:32:52 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT



GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. PROVIDE 3-SIDED AXOM PERIMETER POCKET TRIM AT ALL EXTERIOR WINDOW HEADS WITH ROLLER SHADES. SEE DETAIL D1 / 2A-577
4. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
5. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
6. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C4 / 2A-541
7. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
8. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
9. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
10. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
11. ALL WINDOWS TO HAVE ROLLER SHADES WITH SEISMIC PERIMETER POCKET SEE DETAIL D1 / 2A-577
12. FOR CEILING DETAILS SEE SHEET 2A-541

2.2

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - RCP

2.2

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER
- 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS (1'X4' 2'X4')
- EXIT SIGN- SEE ELECTRICAL

2.2

A1 LEVEL 04- OVERALL RCP

1/16" = 1'-0"

SCALE: 1/16" = 1'

N

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
OVERALL FOURTH LEVEL RCP

Sheet No.
2A-191

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



B1 LEVEL 04- RCP PART A

1/8" = 1'-0"

SCALE: 1/8" = 1'

LEGEND - RCP

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER
- 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS (1'X4' 2'X4')
- EXIT SIGN- SEE ELECTRICAL

CEILING TYPES

TYPE MARK	DESCRIPTION
	2-HR RATED GYPSUM ASSEMBLY, PTD.
AP-1	2' X 4' ACOUSTIC PANEL CEILING (OPEN OFFICE AREAS)
AP-3	2' X 4' ACOUSTIC PANEL CEILING W/ 1' X 4' SERVICE TILE (LABS)
AP-4	2' X 4' ACOUSTIC PANEL CEILING (BUFFER ROOMS AND FOOD AREAS)
AP-5	2' X 4' ACOUSTIC PANEL CEILING (BACK OF HOUSE AREAS)
AP-6	2' X 4' ACOUSTIC PANEL CEILING (LABS)
CP-1	CEMENT PLASTER (EXTERIOR)
CR-1	COLD ROOM CEILING
FCS	FIBER CEMENT SOFFIT
GB-1	GYPSUM BOARD, PTD.
GB-2	2-HR RATED GYPSUM ASSEMBLY, PTD.
LM-1	LINEAR METAL CEILING - EXTERIOR
WD-1	WOOD VENEER PANELS
WP-1	WOOD PANEL CEILING
WP-3	WOOD PANEL CEILING
WP-4	WOOD PANEL CEILING
WP-5	WOOD PANEL CEILING

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
083483.A1	ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM-2HR RATED
095113.J1	ACOUSTICAL PANEL CEILINGS SEISMIC JOINT

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
4. REFER TO FINISH SCHEDULE FOR CEILING TYPE MATERIAL INFORMATION AND PRODUCT SELECTIONS.
5. PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS/SOFFITS WHETHER INDICATED OR NOT, TO PERMIT PROPER OPERATION AND MAINTENANCE OF EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS OF ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. CONTRACTOR TO PROVIDE ACCESS PANEL LOCATION SUBMITTAL FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. SEE DETAIL C6 / 2A-541
6. EXIT SIGNS REQUIRED AT ALL REQUIRED EXITS PER SECTION 1011 OF THE 2016 CBC.
7. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING INFORMATION.
8. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
9. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
10. FOR WINDOW SHADE WALL-MOUNTED TYPICALLY, SEE DETAIL D1 / 2A-577
    FOR WINDOW SHADE RECESSED IN CEILING SOFFIT AT MULTI-PURPOSE ROOM AND SERVERY, SEE DETAIL C1 / 2A-578
11. FOR CEILING DETAILS SEE SHEET 2A-541

11/7/2017 1:03:41 P.M.
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
FOURTH LEVEL RCP- PART A

Sheet No.
2A-192

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 1:03:53 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE CEILING FRAMING DETAILS SEE SHEET 2A/541
3. ALL SPRINKLER HEADS IN ATRIUM (INCLUDING ALL AREAS ADJACENT, SUCH AS UNDER BRIDGE AND ELEVATOR BALCONIES, ETC.), MAIN LEVEL 1 CORRIDOR, MULTIPURPOSE ROOM, LEVEL 2 LOUNGE OFF ROOF DECK, LEVEL 3 CONFERENCE ROOM AND LEVEL 4 BREAK ROOM, TO BE FULLY CONCEALED WITH HEAD COVERS PAINTED TO MATCH CEILING COLOR THEY ARE WITHIN.
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9. ANY LAY-IN CEILING OVER 2,500 SF TO HAVE A SEISMIC JOINT.
10. FOR WINDOW SHADE WALL-MOUNTED TYPICALLY, SEE DETAIL D1 / 2A-577
    FOR WINDOW SHADE RECESSED IN CEILING SOFFIT AT MULTI-PURPOSE ROOM AND SERVERY, SEE DETAIL C1 / 2A-578
11. FOR CEILING DETAILS SEE SHEET 2A-541

CEILING TYPES

TYPE MARK	DESCRIPTION
	2-HR RATED GYPSUM ASSEMBLY, PTD.
AP-1	2' X 4' ACOUSTIC PANEL CEILING (OPEN OFFICE AREAS)
AP-3	2' X 4' ACOUSTIC PANEL CEILING W/ 1' X 4' SERVICE TILE (LABS)
AP-4	2' X 4' ACOUSTIC PANEL CEILING (BUFFER ROOMS AND FOOD AREAS)
AP-5	2' X 4' ACOUSTIC PANEL CEILING (BACK OF HOUSE AREAS)
AP-6	2' X 4' ACOUSTIC PANEL CEILING (LABS)
CP-1	CEMENT PLASTER (EXTERIOR)
CR-1	COLD ROOM CEILING
FCS	FIBER CEMENT SOFFIT
GB-1	GYPSUM BOARD, PTD.
GB-2	2-HR RATED GYPSUM ASSEMBLY, PTD.
LM-1	LINEAR METAL CEILING - EXTERIOR
WD-1	WOOD VENEER PANELS
WP-1	WOOD PANEL CEILING
WP-3	WOOD PANEL CEILING
WP-4	WOOD PANEL CEILING
WP-5	WOOD PANEL CEILING

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
083483.A1	ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM-2HR RATED
095113.J1	ACOUSTICAL PANEL CEILINGS SEISMIC JOINT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - RCP

- GYPSUM BOARD, PAINTED
- CEMENT PLASTER SOFFIT (EXTERIOR)
- ACOUSTICAL PANEL CEILING
- WOOD VENEER PANEL CEILING
- LINEAR METAL OR WOOD PANEL CEILING
- COLD ROOM CEILING BY MANUFACTURER
- 3/4" THICK WHITE MELAMINE (HUMIDITY RESISTANT) PANEL INSERTED WITH POWER AND DATA, SEE ELECTRICAL DRAWINGS (1'X4' 2'X4')
- EXIT SIGN- SEE ELECTRICAL

SCALE: 1/16" = 1'

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
FOURTH LEVEL
RCP- PART B

Sheet No.
2A-193

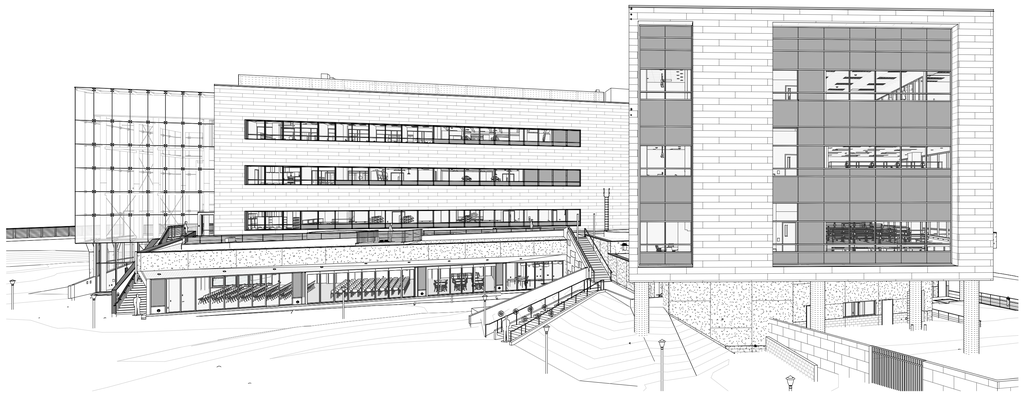
A1 LEVEL 04- RCP PART B

1/8" = 1'-0"

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



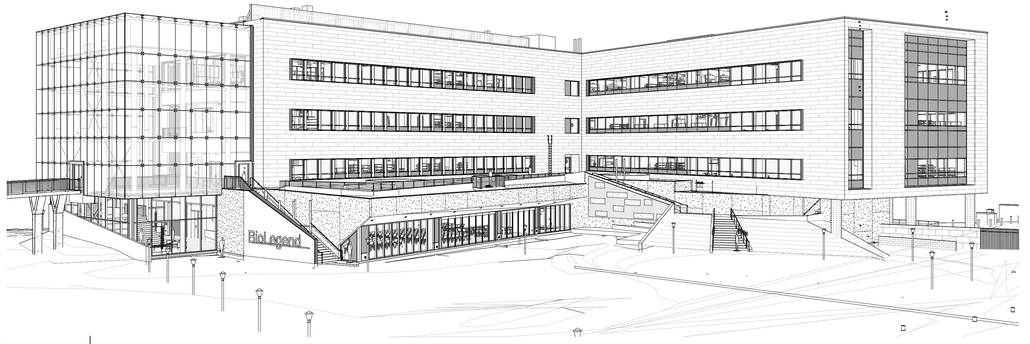
1 SOUTH



4 EAST



2 SOUTH WEST



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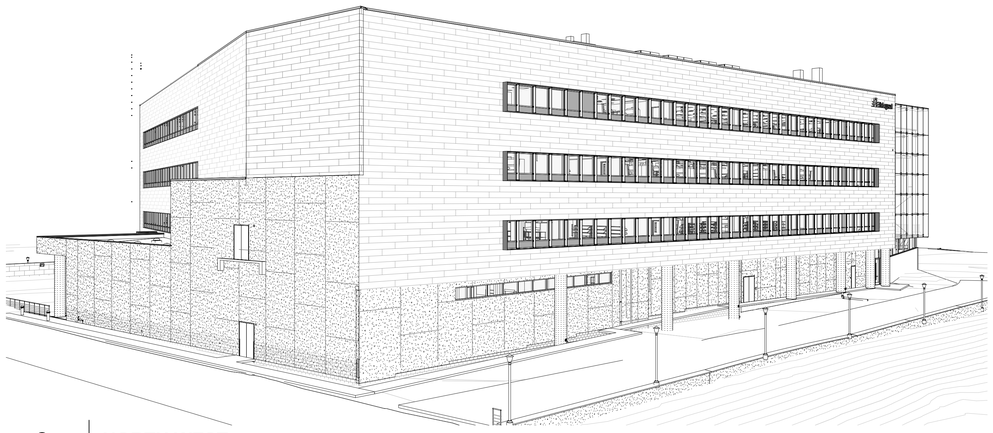
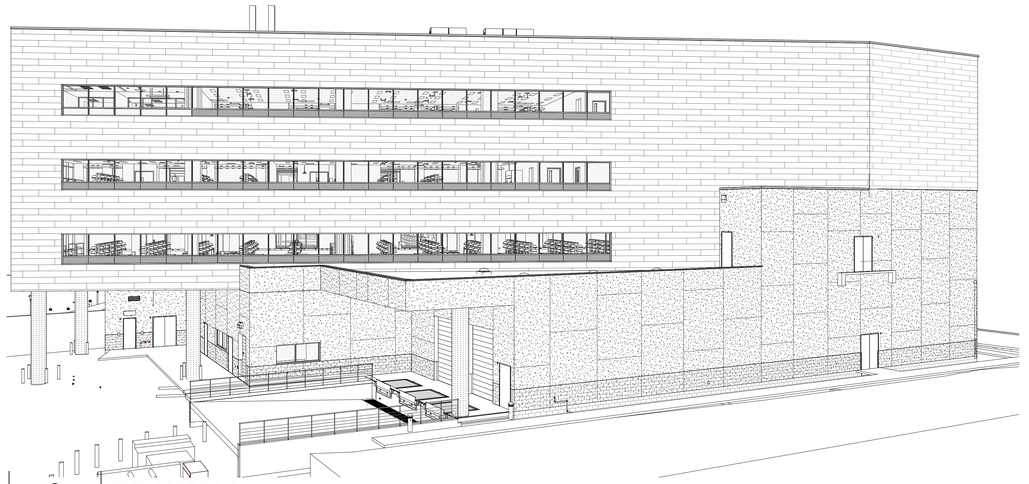


3 NORTH WEST



6 NORTH EAST

8/8/2017 10:28:22 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

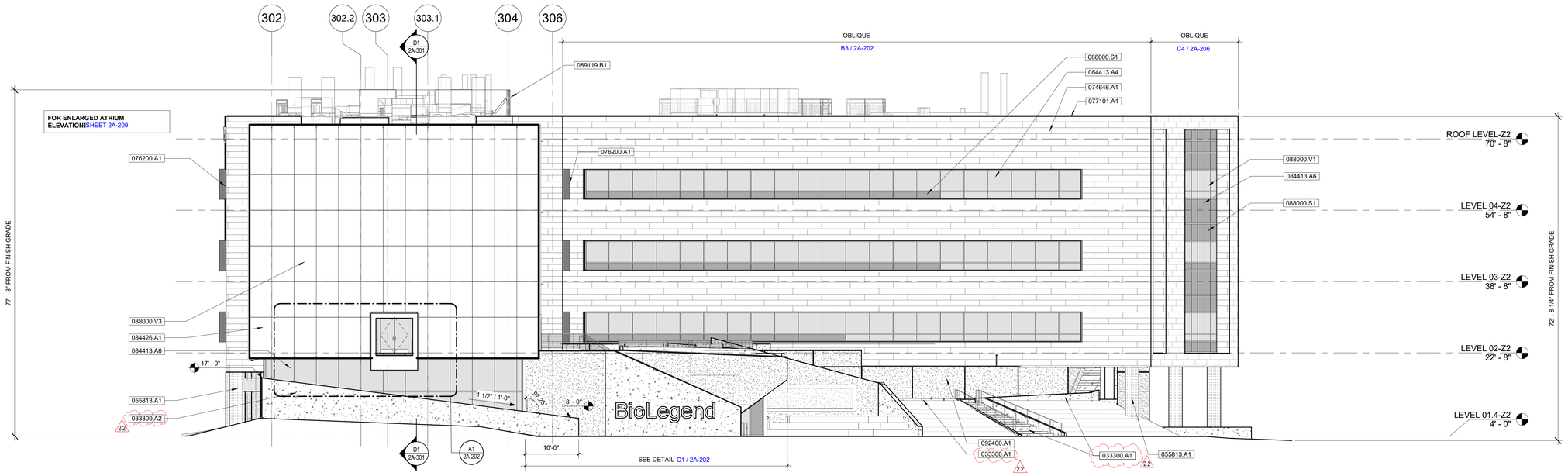
Sheet Title
3D VIEWS

Sheet No.
2A-201

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

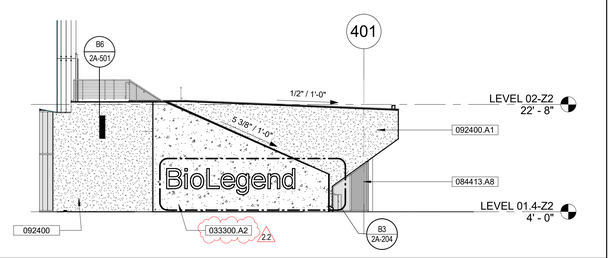
THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT.

10/2/2017 3:33:50 PM



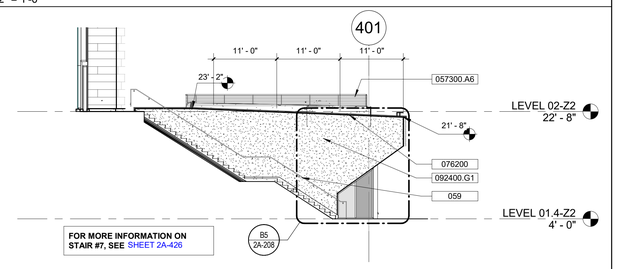
D1 OVERALL SOUTH ELEVATION

A1 / 2A-111 | 3/32" = 1'-0"



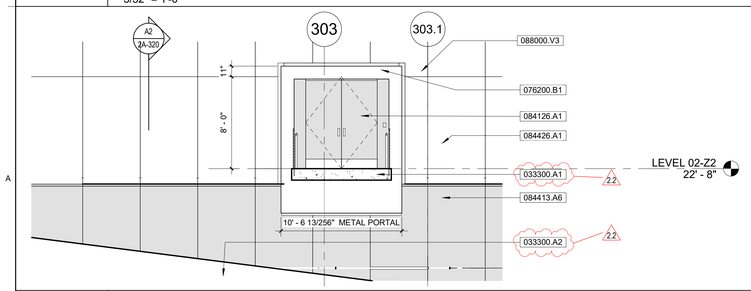
C1 PARTIAL ELEVATION - L1 TO L2 STAIR #7

A1 / 2A-113 | 3/32" = 1'-0"



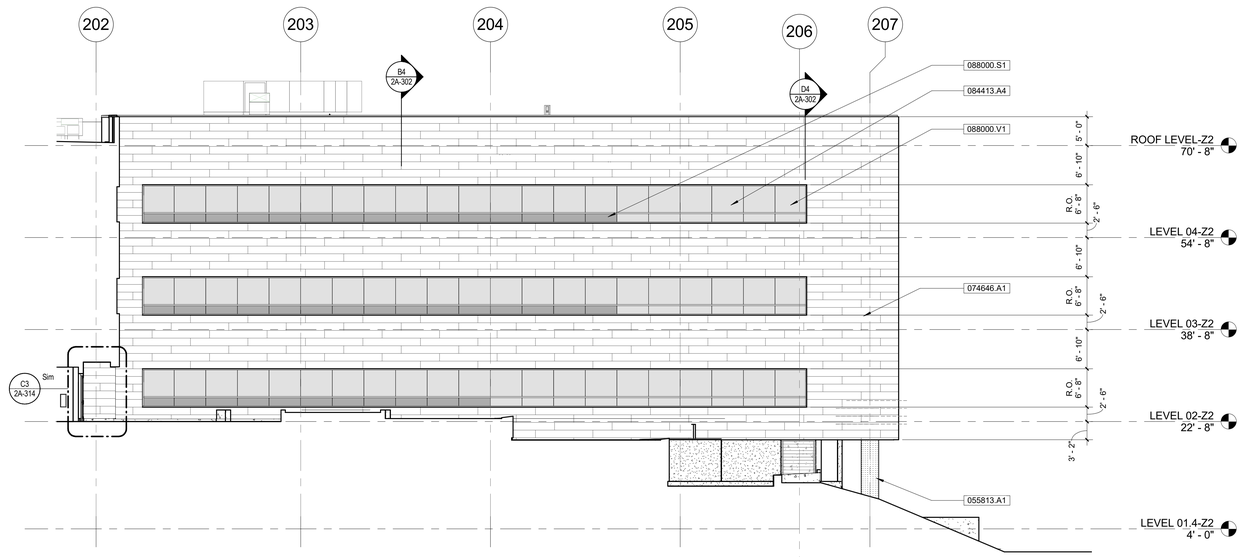
B1 PARTIAL ELEVATION - SOUTH MULTI PURPOSE

3/32" = 1'-0"



A1 PARTIAL ATRIUM @ SOUTH BRIDGE / ENTRANCE

D1 / 2A-202 | 3/16" = 1'-0"



B3 PARTIAL SOUTH ELEVATION - L2 TO ROOF

B1 / 2A-122 | 3/32" = 1'-0"

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
059	GUARDRAILS TO BE 42" ABOVE FINISHED FLOOR, TYP

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033300.A1	ARCHITECTURAL CONCRETE
033300.A2	C.I.P. SITE WALL W/ SMOOTH FINISH, SEE LANDSCAPE
055813.A1	ALUMINUM COLUMN COVERS
057300.A6	CIRCULAR RAIL POST @ 48" O.C. MAXIMUM WITH FASCIA MOUNT NODE MOUNT
074646.A1	FIBER-CEMENT SIDING SYSTEM
076200	SHEET METAL FLASHING AND TRIM
076200.A1	PREFINISHED ALUMINUM FLASHING
076200.B1	STAINLESS STEEL FLASHING <WITH No. 4 FINISH>
077101.A1	MANUFACTURED COPINGS
084126.A1	ALL-GLASS ENTRANCE SYSTEM. SEE DOOR SCHEDULE
084413.A4	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 - 6" MULLIONS>
084413.A6	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 7.5" MULLIONS>
084413.A8	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-1 - 7.5" MULLIONS>
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
088000.S1	<GL-1S>: CERAMIC- OR SILICONE-COATED, INSULATED SPANDREL GLASS
088000.V1	<GL-1>: LOW-E COATED, CLEAR INSULATED VISION GLASS
088000.V3	<GL-3>: LOW-E ULTRA-CLEAR STRUCTURAL INSULATED VISION GLASS -VERTICAL
089119.B1	LOUVER SCREEN
092400	CEMENT PLASTERING
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
092400.G1	PLASTER CONTROL JOINT

LEGEND - EXTERIOR ELEVATION

- GL-1 VISION- 088000 U FACTOR = 0.49, SHGC = 0.25, VT = 0.54
- GL-1S INSULATED SPANDREL GLASS- 088000
- GL-3 VERTICAL GLASS @ ATRIUM- 088000 U FACTOR= 0.27, SHGC= 0.24, VT= 0.52
- FIBER CEMENT SIDING PANEL (120"x16") BY EQUITONE TECTIVA - RECTIFIED TRIM FINISH. W/ COLOR TBD. (ICC-ESR-3910)- 074646
- STUCCO 1 - HAND TROWELLED PASTER - SANTA BARBARA FINISH. PATTERN & COLOR TBD.- 092400
- ALUMINUM COLUMN WRAP- 055813
- LINEAR METAL CEILING (LM-2)-095423
- EXPOSED ARCHITECTURAL CONCRETE-033300

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR TO PROVIDE PANEL LAYOUT OPTIMIZATION REVIEW FOR ALL ELEVATIONS, TYP.
3. REFER TO STRUCTURAL GLAZING SHEETS FOR MORE INFORMATION 2SG-201 THROUGH 2SG-575

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

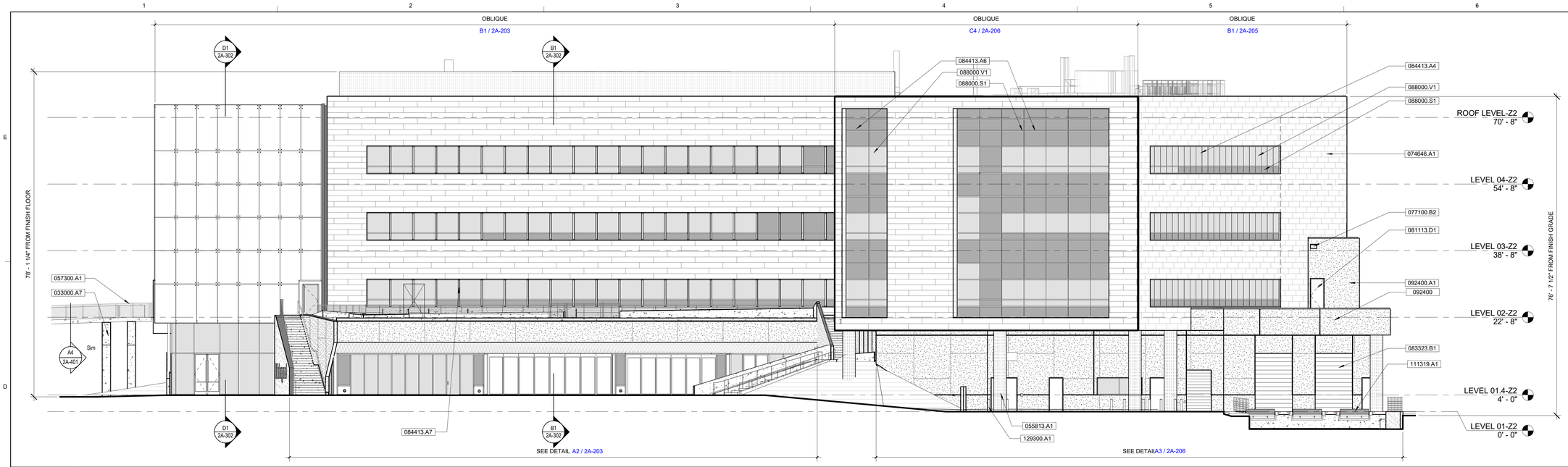
ADDENDUM 2.2
10.03.17

Sheet Title
EXTERIOR ELEVATIONS

Sheet No.
2A-202

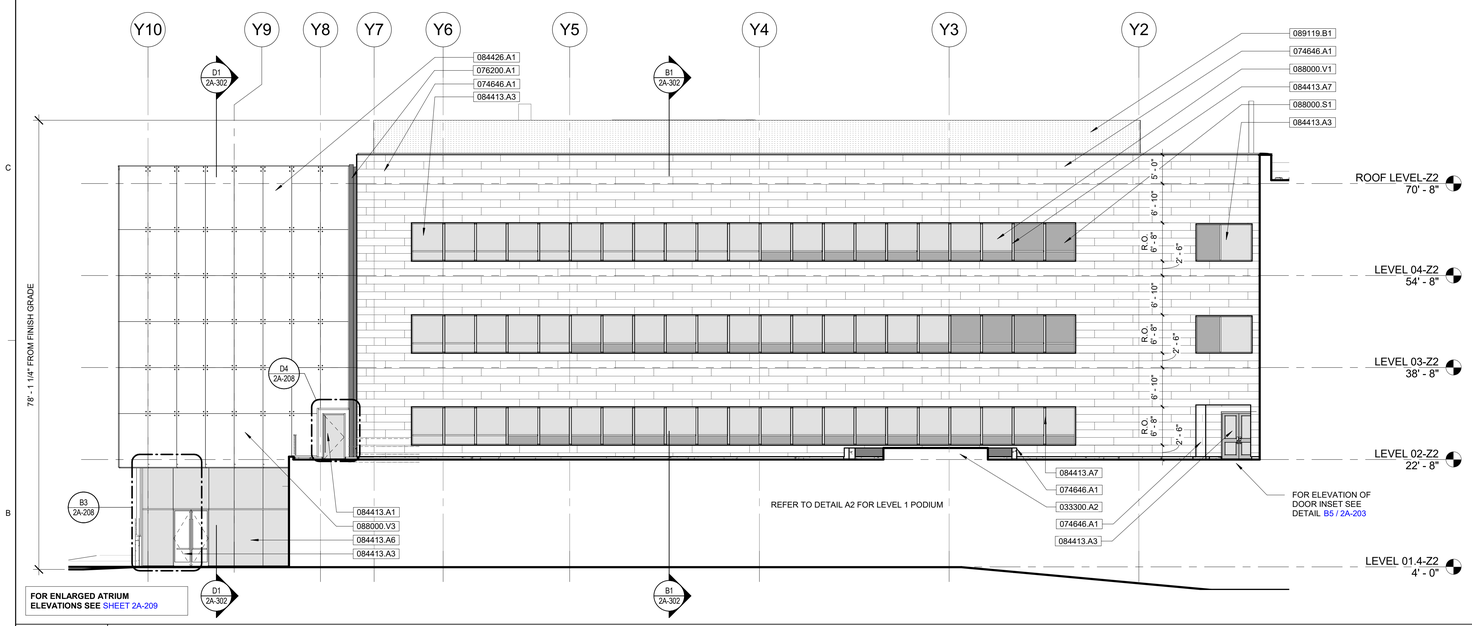
DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

10/2/2017 3:34:18 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT



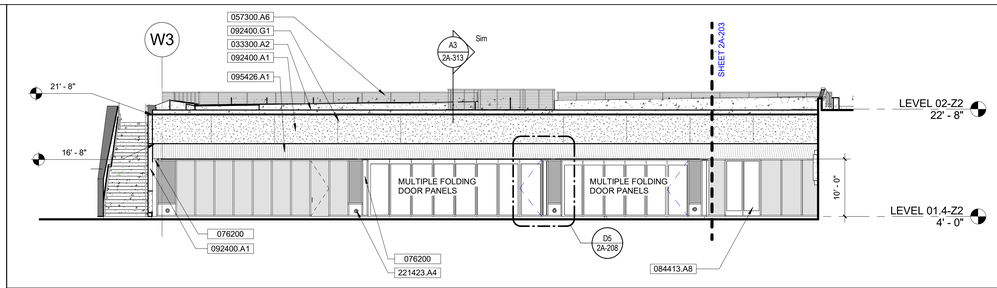
D1 OVERALL EAST ELEVATION

A1 / 2A-111 | 3/32" = 1'-0"



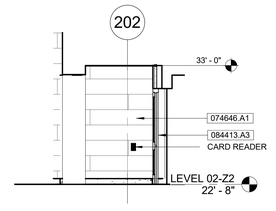
B1 WEST ELEVATION - L2 TO ROOF

B1 / 2A-122 | 3/32" = 1'-0"



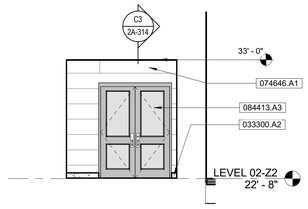
A2 LEVEL 1 EAST PODIUM

A1 / 2A-113 | 3/32" = 1'-0"



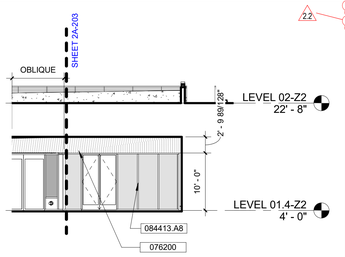
C5 L2 ENTRANCE - A

3/16" = 1'-0"



B5 L2 ENTRANCE - B

3/16" = 1'-0"



A5 PARTIAL L1 PODIUM

A1 / 2A-112 | 3/32" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR TO PROVIDE PANEL LAYOUT OPTIMIZATION REVIEW FOR ALL ELEVATIONS, TYP.
3. REFER TO STRUCTURAL GLAZING SHEETS FOR MORE INFORMATION 2SG-201 THROUGH 2SG-575

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A7	CAST-IN-PLACE COLUMN FOR PEDESTRIAN BRIDGE
033300.A2	C.I.P. SITE WALL W/ SMOOTH FINISH, SEE LANDSCAPE
055813.A1	ALUMINUM COLUMN COVERS
057300.A1	STAINLESS STEEL CABLE GUARD RAIL
057300.A6	CIRCULAR RAIL POST @ 48" O.C. MAXIMUM WITH FASCIA MOUNT NODE MOUNT
074646.A1	FIBER-CEMENT SIDING SYSTEM
076200	SHEET METAL FLASHING AND TRIM
076200.A1	PREFINISHED ALUMINUM FLASHING
077100.B2	SCUPPER, LEADER HEAD & DOWNPIPE
081113.D1	EXTERIOR INSULATED HOLLOW METAL DOOR. SEE DOOR SCHEDULE
083323.B1	OVERHEAD COILING DOOR HOOD
084413.A1	GLAZED ALUMINUM CURTAIN WALL SYSTEM
084413.A3	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-1 - 6" MULLIONS>
084413.A4	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 - 6" MULLIONS>
084413.A6	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 7.5" MULLIONS>
084413.A7	SUN CONTROL SYSTEM
084413.A8	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-1 - 7.5" MULLIONS>
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
088000.S1	<GL-1S>: CERAMIC- OR SILICONE-COATED, INSULATED SPANDREL GLASS
088000.V1	<GL-1>: LOW-E COATED, CLEAR INSULATED VISION GLASS
088000.V3	<GL-3>: LOW-E ULTRA-CLEAR STRUCTURAL INSULATED VISION GLASS -VERTICAL
089119.B1	LOUVER SCREEN
092400	CEMENT PLASTERING
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
092400.G1	PLASTER CONTROL JOINT
095426.A1	LINEAR WOOD CEILING SYSTEM
111319.A1	RECESSED DOCK LEVELER
129300.A1	BOLLARD
221423.A4	DOWNSPOUT NOZZLE

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - EXTERIOR ELEVATION

- GL-1 VISION- 088000 U FACTOR = 0.49, SHGC = 0.25, VT = 0.54
- GL-1S INSULATED SPANDREL GLASS- 088000
- GL-3 VERTICAL GLASS @ ATRIUM- 088000 U FACTOR= 0.27, SHGC= 0.24, VT= 0.52
- FIBER CEMENT SIDING PANEL (120"x16") BY EQUITONE TECTIVA - RECTIFIED TRIM FINISH. W/ COLOR TBD. (ICC-ESR-3910)- 074646
- STUCCO 1 - HAND TROWELLED PASTER - SANTA BARBARA FINISH. PATTERN & COLOR TBD.- 092400
- ALUMINUM COLUMN WRAP- 055813
- LINEAR METAL CEILING (LM-2)-095423
- EXPOSED ARCHITECTURAL CONCRETE-033300

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

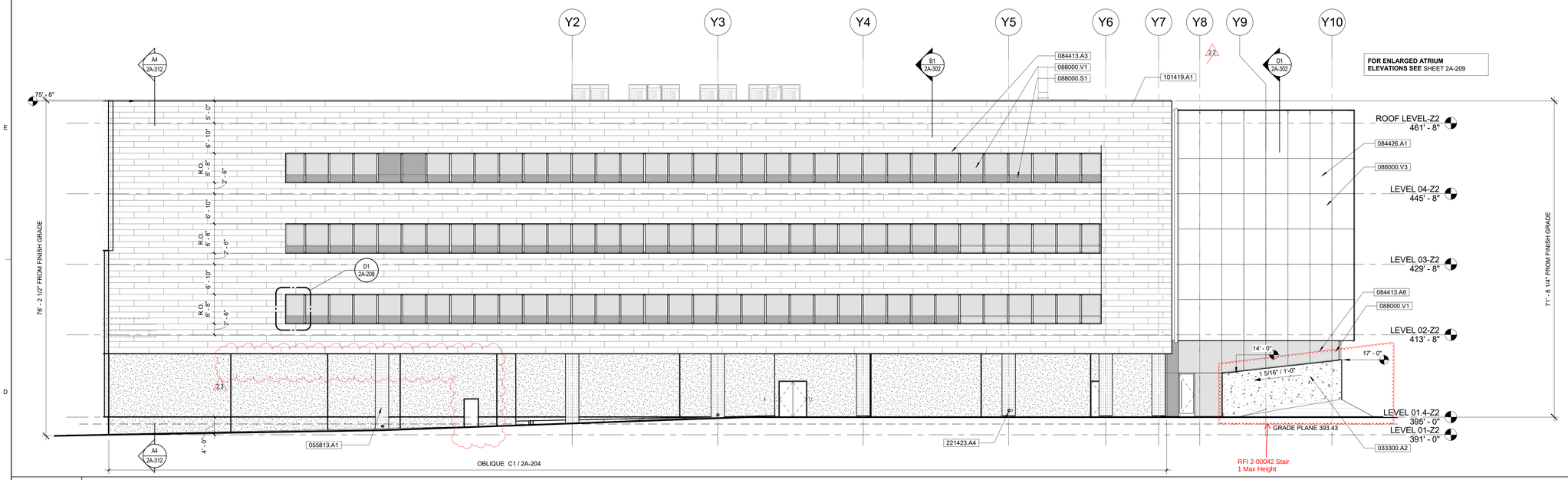
REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
EXTERIOR ELEVATIONS

Sheet No.
2A-203

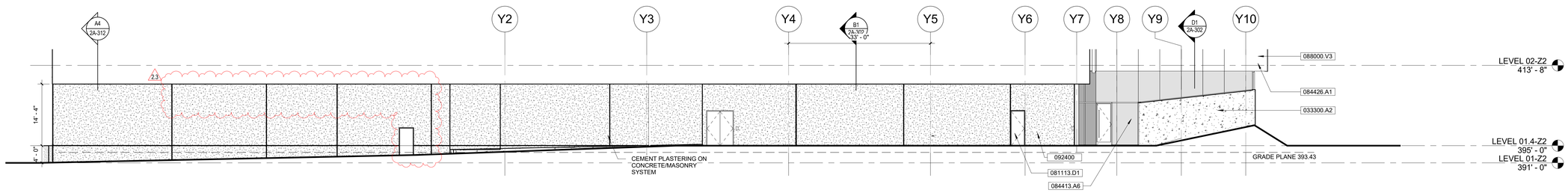
DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



OBLIQUE C1 / 2A-204

D1 OVERALL WEST ELEVATION

A1 / 2A-111 | 3/32" = 1'-0"



C1 PARTIAL ELEVATION - L1 WEST

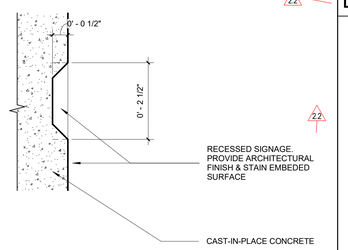
A1 / 2A-112 | 3/32" = 1'-0"





B3 ELEVATION @ CONCRETE EMBED - SIGNAGE

C1 / 2A-202 | 1/2" = 1'-0"



A4 SECTION @ COMPANY WALL LOGO

B3 / 2A-204 | 6" = 1'-0"

LEGEND - EXTERIOR ELEVATION

- GL-1 VISION- 088000 U FACTOR = 0.49, SHGC = 0.25, VT = 0.54
- GL-1S INSULATED SPANDREL GLASS- 088000
- GL-3 VERTICAL GLASS @ ATRIUM- 088000 U FACTOR= 0.27, SHGC= 0.24, VT= 0.52
- FIBER CEMENT SIDING PANEL (120"x16") BY EQUITONE TECTIVA - RECTIFIED TRIM FINISH. W/ COLOR TBD. (ICC-ESR-3910)- 074646
- STUCCO 1 - HAND TROWELLED PASTER - SANTA BARBARA FINISH. PATTERN & COLOR TBD.- 092400
- ALUMINUM COLUMN WRAP- 055813
- LINEAR METAL CEILING (LM-2)-095423
- EXPOSED ARCHITECTURAL CONCRETE-033300

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR TO PROVIDE PANEL LAYOUT OPTIMIZATION REVIEW FOR ALL ELEVATIONS, TYP.
3. REFER TO STRUCTURAL GLAZING SHEETS FOR MORE INFORMATION 2SG-201 THROUGH 2SG-575
4. THE FINISHED FLOOR ELEVATION IS 391'-0". THE HIGHT OF THE LEVELS ARE IN REFERENCE TO THE FINISHED FLOOR BEING 0'-0"
5. SAFETY GLAZING IS REQUIRED PER CBC SECTION 2406.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033300.A2	C.I.P. SITE WALL W/ SMOOTH FINISH, SEE LANDSCAPE
055213.A1	TUBE RAILING SYSTEM
055813.A1	ALUMINUM COLUMN COVERS
076200	SHEET METAL FLASHING AND TRIM
081113.D1	EXTERIOR INSULATED HOLLOW METAL DOOR. SEE DOOR SCHEDULE
084413.A3	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-1 - 6" MULLIONS>
084413.A6	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 7.5" MULLIONS>
084413.A8	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-1 - 7.5" MULLIONS>
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
088000.S1	<GL-1S>: CERAMIC- OR SILICONE-COATED, INSULATED SPANDREL GLASS
088000.V1	<GL-1>: LOW-E COATED, CLEAR INSULATED VISION GLASS
088000.V3	<GL-3>: LOW-E ULTRA-CLEAR STRUCTURAL INSULATED VISION GLASS -VERTICAL
092400	CEMENT PLASTERING
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
092400.A2	CEMENT PLASTERING ON CONCRETE/MASONRY SYSTEM
101419.A1	DIMENSIONAL LETTER SIGNAGE (OWNER PROVIDED)
221423.A4	DOWNSPOUT NOZZLE

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

11/17/2017 1:06:56 PM
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GENE THEORY

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

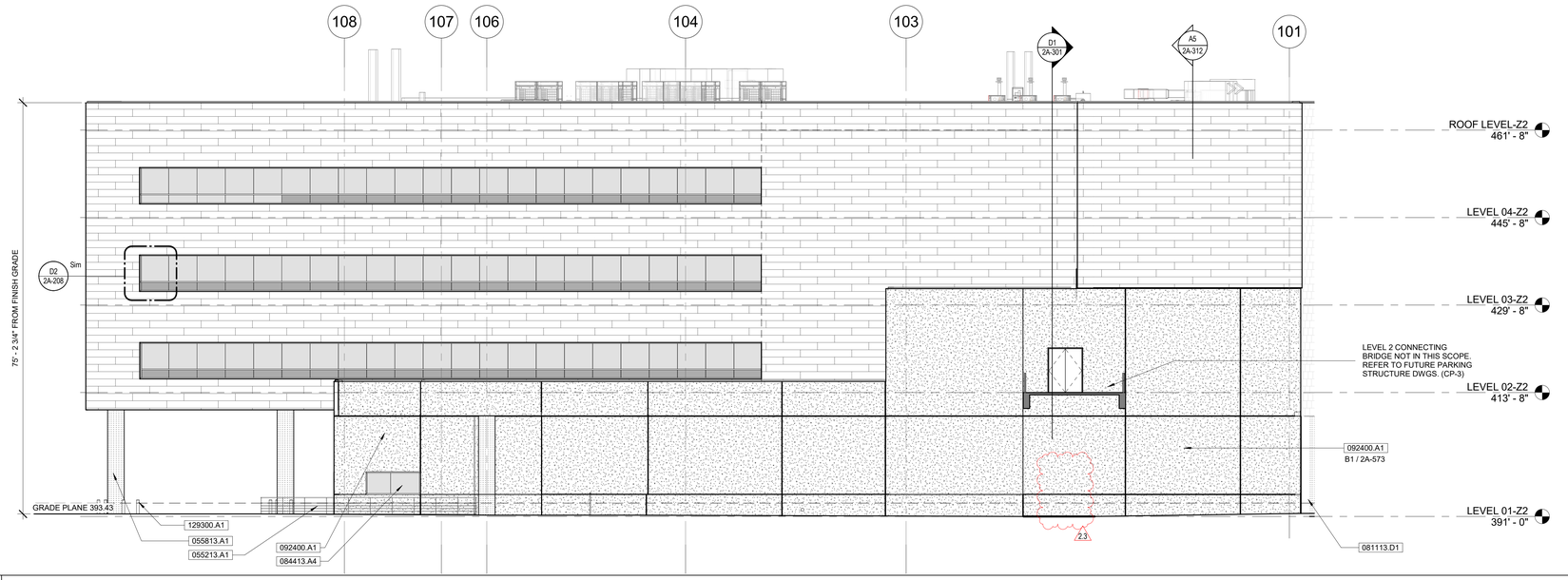
REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
EXTERIOR ELEVATIONS

Sheet No.
2A-204

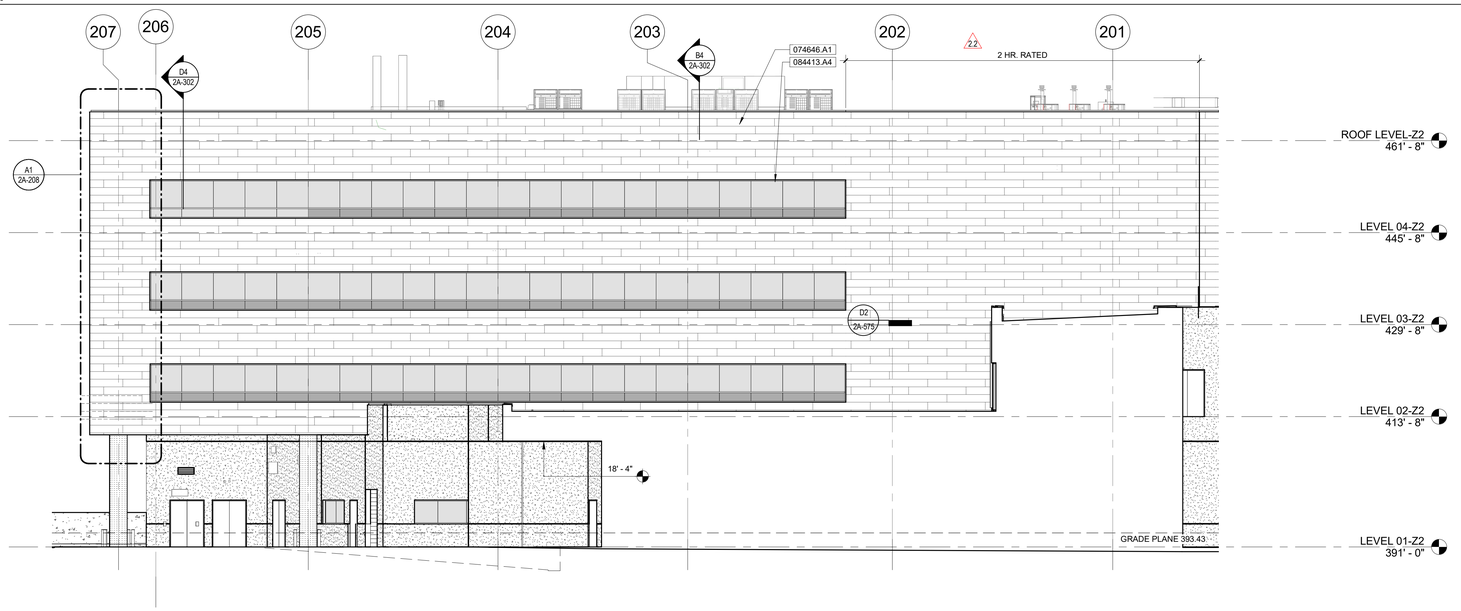
DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



D1 OVERALL ELEVATION - NORTH

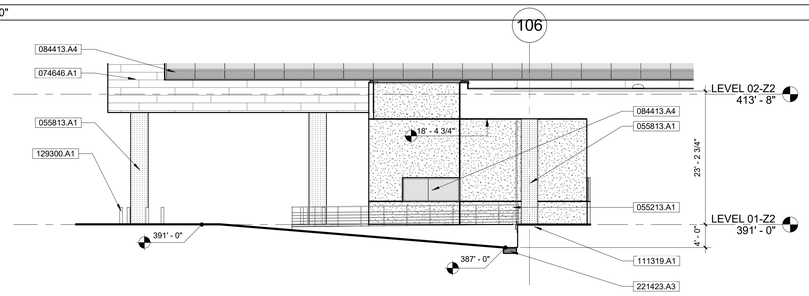
A1 / 2A-111 | 3/32" = 1'-0"

2.2



B1 NORTH ELEVATION - L2 TO ROOF

B1 / 2A-122 | 3/32" = 1'-0"



A1 PARTIAL ELEVATION / SECTION THROUGH WAREHOUSE

A1 / 2A-112 | 3/32" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
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3. REFER TO STRUCTURAL GLAZING SHEETS FOR MORE INFORMATION 2SG-201 THROUGH 2SG-575
4. THE FINISHED FLOOR ELEVATION IS 391'-0". THE HIGHT OF THE LEVELS ARE IN REFERENCE TO THE FINISHED FLOOR BEING 0'-0"
5. SAFETY GLAZING IS REQUIRED PER CBC SECTION 2406.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
055213.A1	TUBE RAILING SYSTEM
055813.A1	ALUMINUM COLUMN COVERS
074646.A1	FIBER-CEMENT SIDING SYSTEM
081113.D1	EXTERIOR INSULATED HOLLOW METAL DOOR. SEE DOOR SCHEDULE
084413.A4	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 - 6" MULLIONS>
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
111319.A1	RECESSED DOCK LEVELER
129300.A1	BOLLARD
221423.A3	TRENCH DRAIN

2.2

LEGEND - EXTERIOR ELEVATION

- GL-1 VISION- 088000 — U FACTOR = 0.49, SHGC = 0.25, VT = 0.54
- GL-1S INSULATED SPANDREL GLASS- 088000
- GL-3 VERTICAL GLASS @ ATRIUM- 088000 — U FACTOR= 0.27, SHGC= 0.24, VT= 0.52
- FIBER CEMENT SIDING PANEL (120"x16") BY EQUITONE TECTIVA - RECTIFIED TRIM FINISH. W/ COLOR TBD. (ICC-ESR-3910)- 074646
- STUCCO 1 - HAND TROWELLED PASTER - SANTA BARBARA FINISH. PATTERN & COLOR TBD.- 092400
- ALUMINUM COLUMN WRAP- 055813
- LINEAR METAL CEILING (LM-2)-095423
- EXPOSED ARCHITECTURAL CONCRETE-033300

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
EXTERIOR ELEVATIONS

Sheet No.
2A-205

11/17/2017 1:07:21 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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Link to the Sheet - 2G-002

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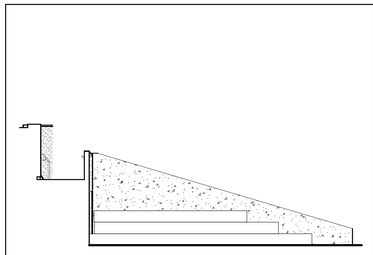
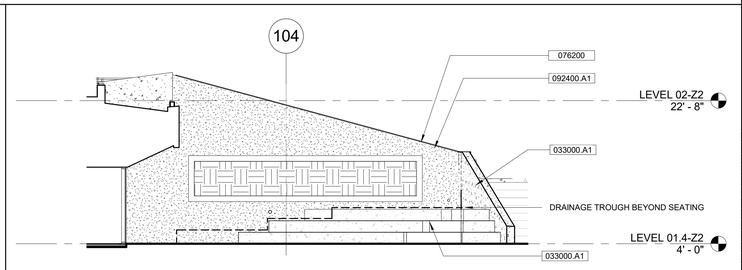
THIS DRAWING IS THE PROPERTY OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



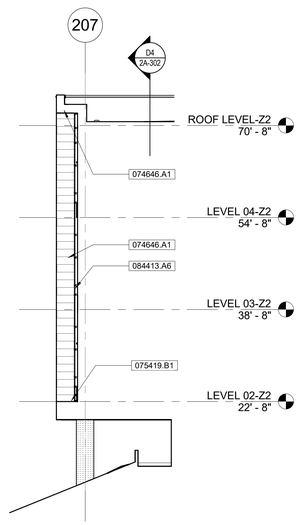
D3 OUTDOOR GREENWALL SEATING (B)

A1 / 2A-112 | 1/8" = 1'-0"



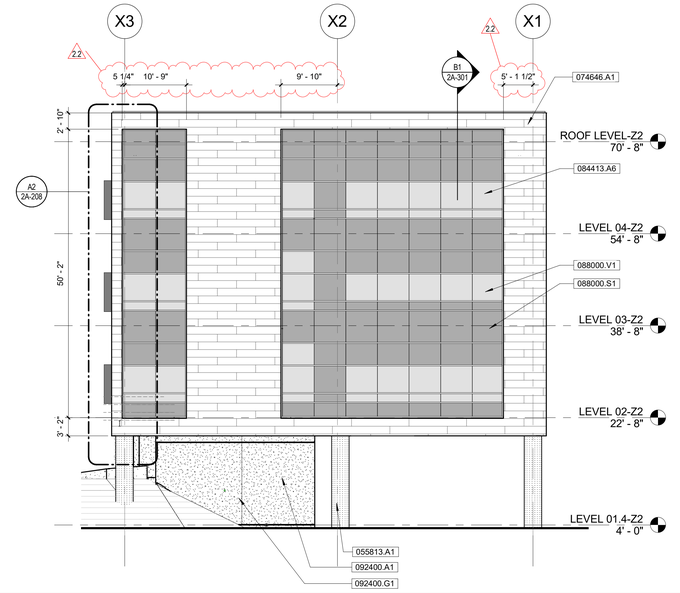
D4 OUTDOOR GREENWALL SEATING (A)

A1 / 2A-113 | 1/8" = 1'-0"



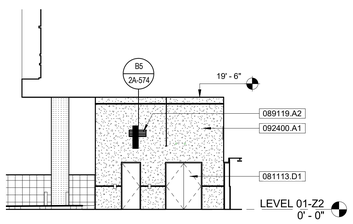
C3 PARTIAL SOUTH / EAST

B1 / 2A-122 | 3/32" = 1'-0"



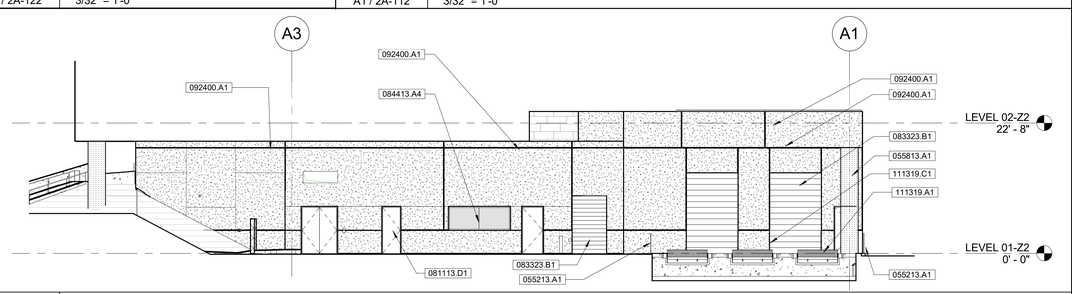
C4 PARTIAL EAST - L1 TO ROOF

A1 / 2A-112 | 3/32" = 1'-0"



A2 PARTIAL @ L1 SOUTH

A1 / 2A-112 | 3/32" = 1'-0"



A3 PARTIAL @ L1 WEST

A1 / 2A-112 | 3/32" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR TO PROVIDE PANEL LAYOUT OPTIMIZATION REVIEW FOR ALL ELEVATIONS, TYP.
3. REFER TO STRUCTURAL GLAZING SHEETS FOR MORE INFORMATION 2SG-201 THROUGH 2SG-575

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
055213.A1	TUBE RAILING SYSTEM
055813.A1	ALUMINUM COLUMN COVERS
074646.A1	FIBER-CEMENT SIDING SYSTEM
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A'
076200	SHEET METAL FLASHING AND TRIM
081113.D1	EXTERIOR INSULATED HOLLOW METAL DOOR. SEE DOOR SCHEDULE
083323.B1	OVERHEAD COILING DOOR HOOD
084413.A4	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 - 6" MULLIONS>
084413.A6	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 7.5" MULLIONS>
088000.S1	<GL-1S>: CERAMIC- OR SILICONE-COATED, INSULATED SPANDREL GLASS
088000.V1	<GL-1>: LOW-E COATED, CLEAR INSULATED VISION GLASS
089119.A2	EXTERIOR HORIZONTAL WIND DRIVEN RAIN RESISTANT LOUVER, <PREFINISHED> <SIGHTPROOF> <DRAINABLE>
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
092400.G1	PLASTER CONTROL JOINT
111319.A1	RECESSED DOCK LEVELER
111319.C1	LOADING DOCK BUMBER

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - EXTERIOR ELEVATION

- GL-1 VISION- 088000 U FACTOR = 0.49, SHGC = 0.25, VT = 0.54
- GL-1S INSULATED SPANDREL GLASS- 088000
- GL-3 VERTICAL GLASS @ ATRIUM- 088000 U FACTOR= 0.27, SHGC= 0.24, VT= 0.52
- FIBER CEMENT SIDING PANEL (120"x16") BY EQUITONE TECTIVA - RECTIFIED TRIM FINISH. W/ COLOR TBD. (ICC-ESR-3910)- 074646
- STUCCO 1 - HAND TROWELLED PASTER - SANTA BARBARA FINISH. PATTERN & COLOR TBD.- 092400
- ALUMINUM COLUMN WRAP- 055813
- LINEAR METAL CEILING (LM-2)-095423
- EXPOSED ARCHITECTURAL CONCRETE-033300

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
EXTERIOR ELEVATIONS

Sheet No.
2A-206

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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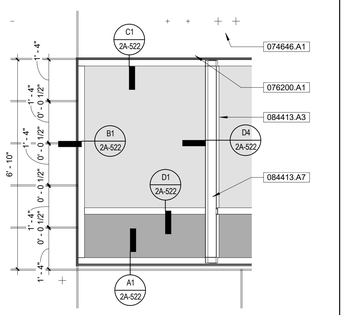
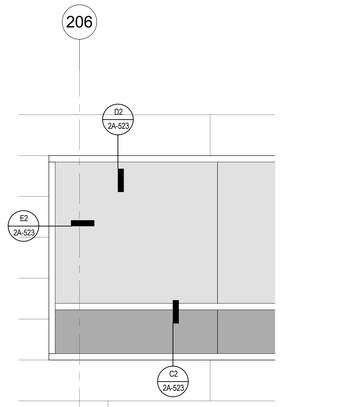


TYPICAL: REFER TO PLANS & ELEVATIONS FOR WINDOW DIMENSIONS

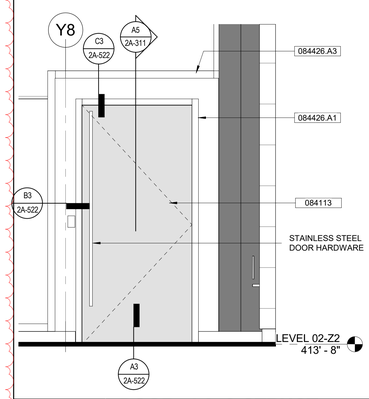
D1 — CURTAIN WALL W/ SUN SHADING @ F.C .SIDING

D1 / 2A-204 | 1/2" = 1'-0"



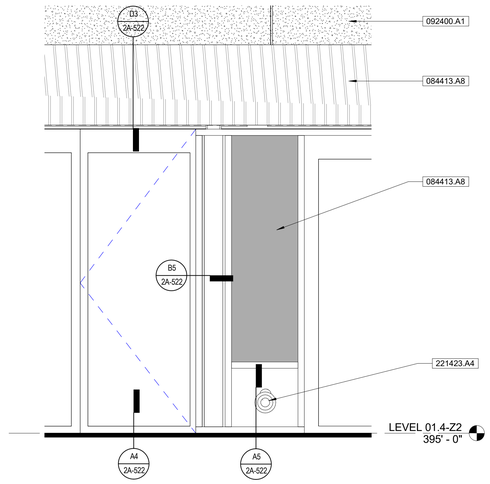
D2 — RIBBON WINDOW @ F.C.S.

B1 / 2A-122 | 1/2" = 1'-0"



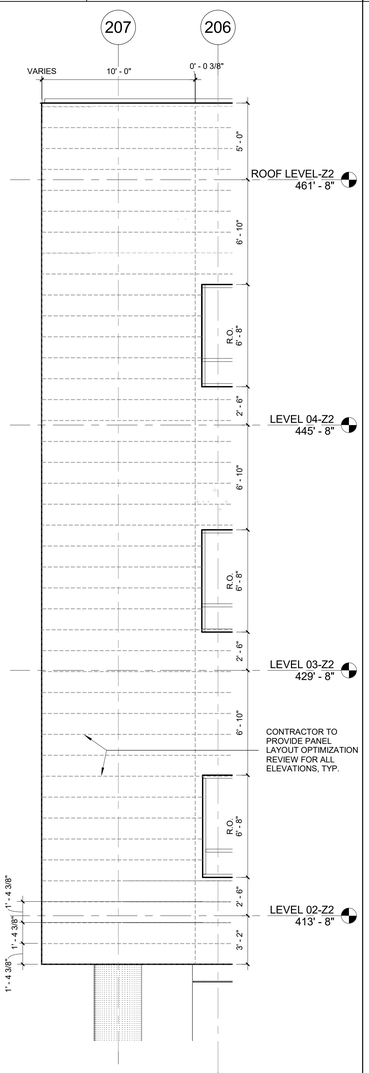
D4 — DOOR - L2 & STRUCT. GLAZING

B1 / 2A-203 | 1/2" = 1'-0"



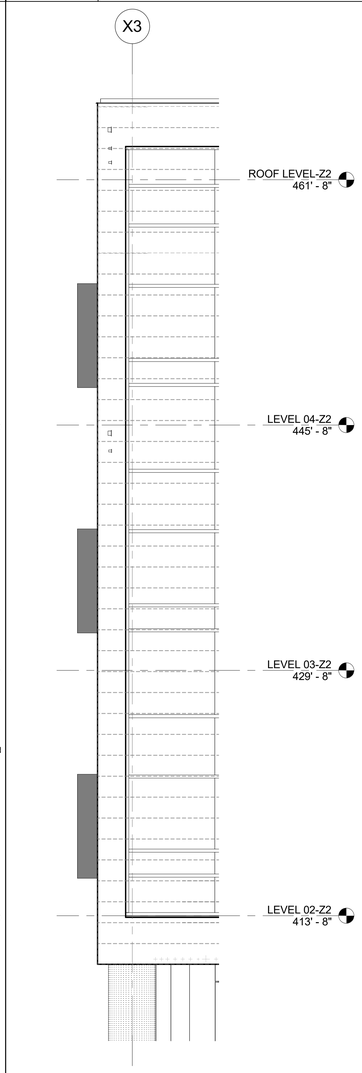
D5 — DOOR - L1 PODIUM FOLDING DOOR

A2 / 2A-203 | 1/2" = 1'-0"



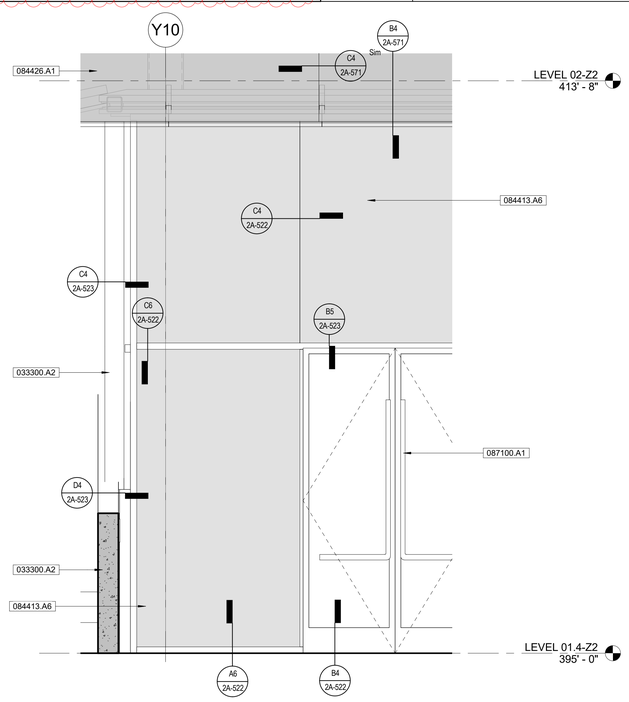
A1 — FIBER CEMENT SIDING LAYOUT

B1 / 2A-205 | 1/4" = 1'-0"



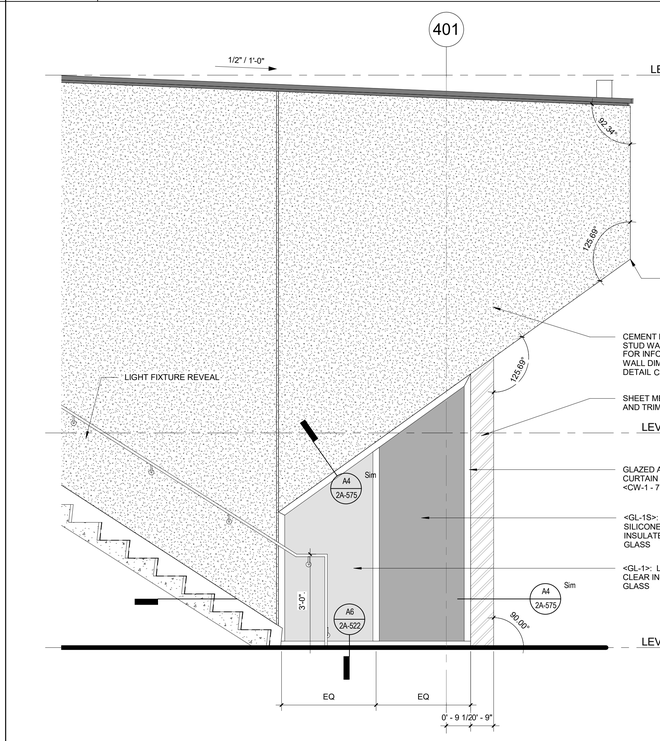
A2 — PARTIAL EAST - L1 TO ROOF - Callout 1

C4 / 2A-206 | 1/4" = 1'-0"



B3 — CURTAINWALL - L1 @ STRUCT. GLAZING

B1 / 2A-203 | 1/2" = 1'-0"



B5 — CURTAIN WALL @ SOUTH MP

B1 / 2A-202 | 1/2" = 1'-0"

LEGEND - EXTERIOR ELEVATION

- GL-1 VISION- 088000 — U FACTOR = 0.49, SHGC = 0.25, VT = 0.54
- GL-1S INSULATED SPANDREL GLASS- 088000
- GL-3 VERTICAL GLASS @ ATRIUM- 088000 — U FACTOR= 0.27, SHGC= 0.24, VT= 0.52
- FIBER CEMENT SIDING PANEL (120"x16") BY EQUITONE TECTIVA - RECTIFIED TRIM FINISH. W/ COLOR TBD. (ICC-ESR-3910)- 074646
- STUCCO 1 - HAND TROWELLED PASTER - SANTA BARBARA FINISH. PATTERN & COLOR TBD.- 092400
- ALUMINUM COLUMN WRAP- 055813
- LINEAR METAL CEILING (LM-2)-095423
- EXPOSED ARCHITECTURAL CONCRETE-033300

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033300.A2	C.I.P. SITE WALL W/ SMOOTH FINISH, SEE LANDSCAPE
074646.A1	FIBER-CEMENT SIDING SYSTEM
076200	SHEET METAL FLASHING AND TRIM
076200.A1	PREFINISHED ALUMINUM FLASHING
084113	ALUMINUM-FRAMED STOREFRONT SYSTEM
084413.A3	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-1 - 6" MULLIONS>
084413.A6	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 7.5" MULLIONS>
084413.A7	SUN CONTROL SYSTEM
084413.A8	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-1 - 7.5" MULLIONS>
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
084426.A3	S.S. STRUCTURAL GLAZING CONNECTION
087100.A1	DOOR HARDWARE. SEE DOOR SCHEDULE.
088000.S1	<GL-1S>: CERAMIC- OR SILICONE-COATED, INSULATED SPANDREL GLASS
088000.V1	<GL-1>: LOW-E COATED, CLEAR INSULATED VISION GLASS
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
221423.A4	DOWNSPOUT NOZZLE

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR TO PROVIDE PANEL LAYOUT OPTIMIZATION REVIEW FOR ALL ELEVATIONS, TYP.
3. REFER TO STRUCTURAL GLAZING SHEETS FOR MORE INFORMATION 2SG-201 THROUGH 2SG-575
4. THE FINISHED FLOOR ELEVATION IS 391'-0". THE HIGHT OF THE LEVELS ARE IN REFERENCE TO THE FINISHED FLOOR BEING 0'-0"
5. SAFETY GLAZING IS REQUIRED PER CBC SECTION 2406.

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
PARTIAL ELEVATIONS

Sheet No.
2A-208

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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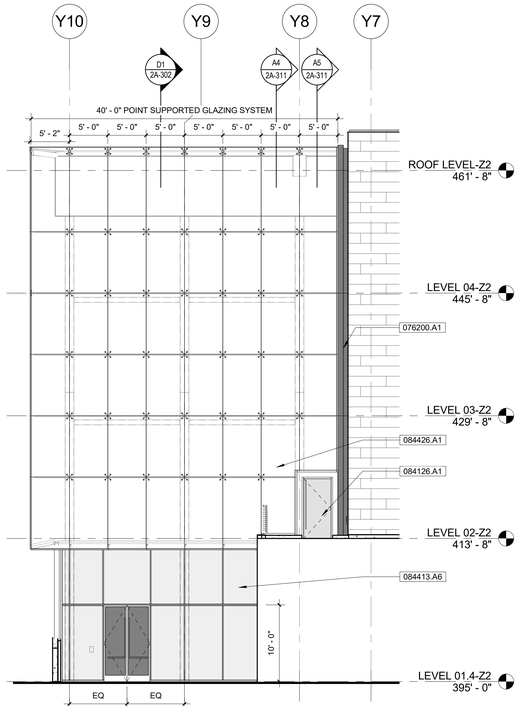
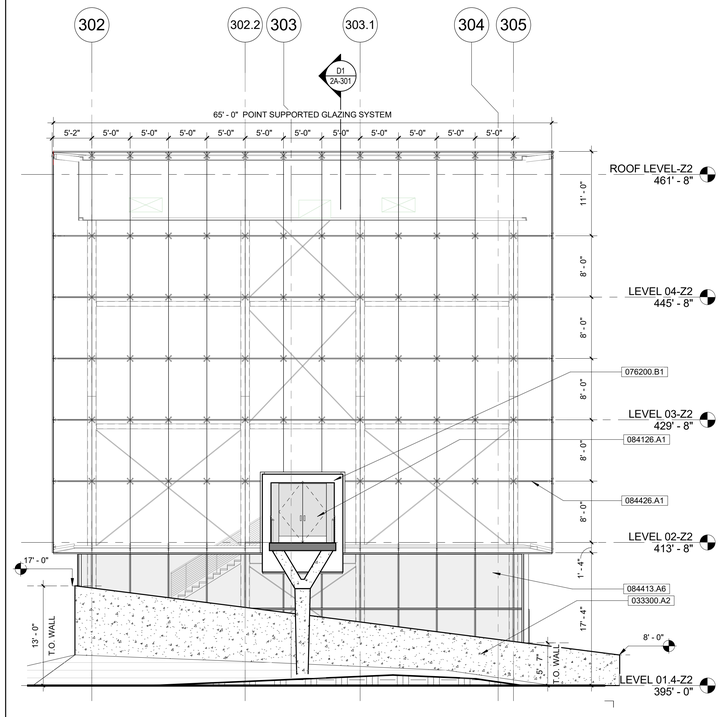


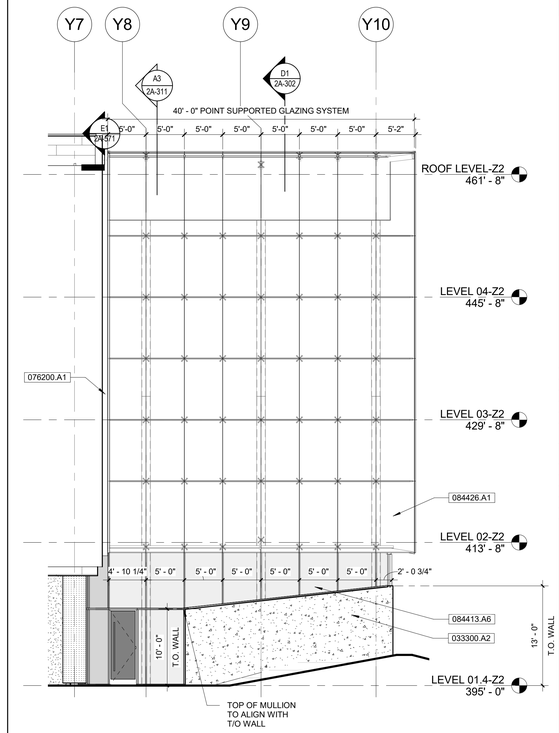
C1 ATRIUM - EAST ELEVATION

A1 / 2A-113 | 1/8" = 1'-0"



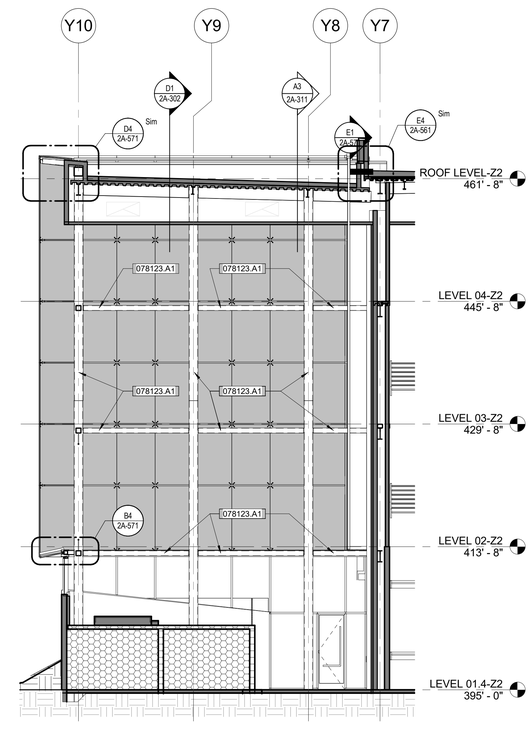
C3 ATRIUM - SOUTH ELEVATION

A1 / 2A-113 | 1/8" = 1'-0"



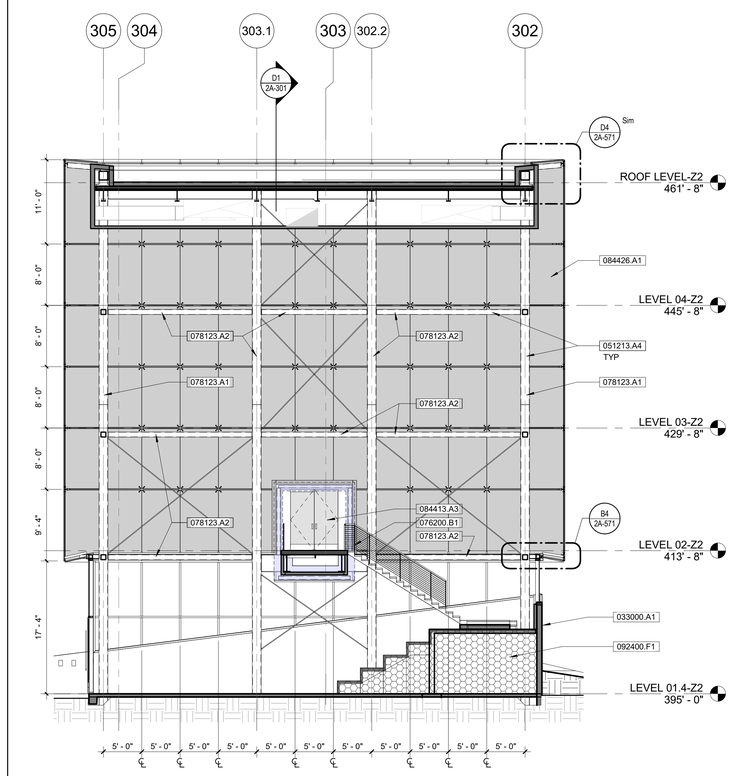
C5 ATRIUM - WEST ELEVATION

A1 / 2A-113 | 1/8" = 1'-0"



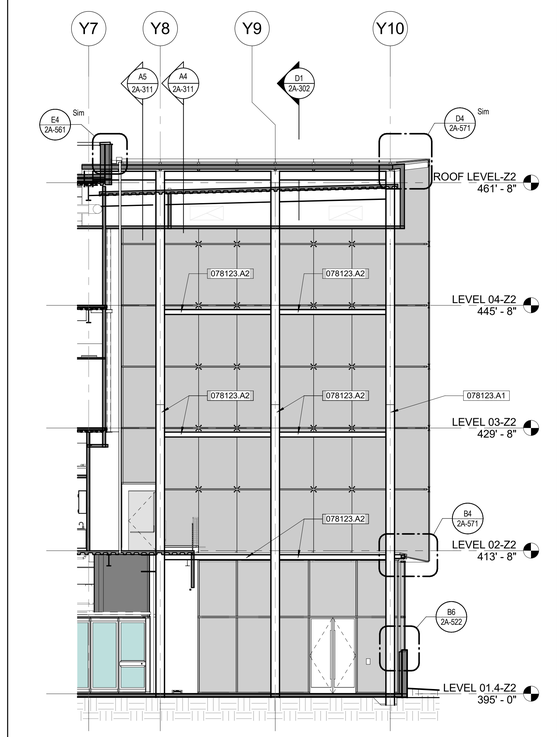
A1 ATRIUM - WEST SECTION

A1 / 2A-113 | 1/8" = 1'-0"



A3 ATRIUM - SOUTH SECTION

A1 / 2A-113 | 1/8" = 1'-0"



A5 ATRIUM - EAST SECTION

A1 / 2A-113 | 1/8" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR TO PROVIDE PANEL LAYOUT OPTIMIZATION REVIEW FOR ALL ELEVATIONS, TYP.
3. REFER TO STRUCTURAL GLAZING SHEETS FOR MORE INFORMATION 2SG-201 THROUGH 2SG-575
4. THE FINISHED FLOOR ELEVATION IS 391'-0". THE HIGHT OF THE LEVELS ARE IN REFERENCE TO THE FINISHED FLOOR BEING 0'-0"
5. SAFETY GLAZING IS REQUIRED PER CBC SECTION 2406.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033300.A2	C.I.P. SITE WALL W/ SMOOTH FINISH, SEE LANDSCAPE
051213.A4	INTERIOR AESS, PAINTED. <SEE STRUCTURAL DRAWINGS>
076200.A1	PREFINISHED ALUMINUM FLASHING
076200.B1	STAINLESS STEEL FLASHING <WITH No. 4 FINISH>
078123.A1	INTUMESCENT FIRE-RESISTIVE COATING WITH 1-HOUR FIRE-RESISTANCE RATING (UL 263)
078123.A2	INTUMESCENT FIRE-RESISITVE COATING WITH 2-HOUR FIRE-RESISTANCE RATING. SEE GENERAL SHEET NOTES FOR LOCATIONS OF 1-HOUR. (UL 263)
084126.A1	ALL-GLASS ENTRANCE SYSTEM. SEE DOOR SCHEDULE
084413.A3	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-1 - 6" MULLIONS>
084413.A6	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 7.5" MULLIONS>
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
092400.F1	FOAM BUILD-OUT (HIGH DENSITY @ HEAVY LOADS)

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - EXTERIOR ELEVATION

- GL-1 VISION- 088000 U FACTOR = 0.49, SHGC = 0.25, VT = 0.54
- GL-1S INSULATED SPANDREL GLASS- 088000
- GL-3 VERTICAL GLASS @ ATRIUM- 088000 U FACTOR= 0.27, SHGC= 0.24, VT= 0.52
- FIBER CEMENT SIDING PANEL (120"x16") BY EQUITONE TECTIVA - RECTIFIED TRIM FINISH. W/ COLOR TBD. (ICC-ESR-3910)- 074646
- STUCCO 1 - HAND TROWELLED PASTER - SANTA BARBARA FINISH. PATTERN & COLOR TBD.- 092400 A
- ALUMINUM COLUMN WRAP- 055813
- LINEAR METAL CEILING (LM-2)-095423
- EXPOSED ARCHITECTURAL CONCRETE-033300

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

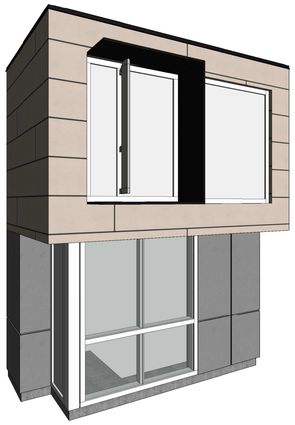
CITY SUBMITTAL SET
08.08.17

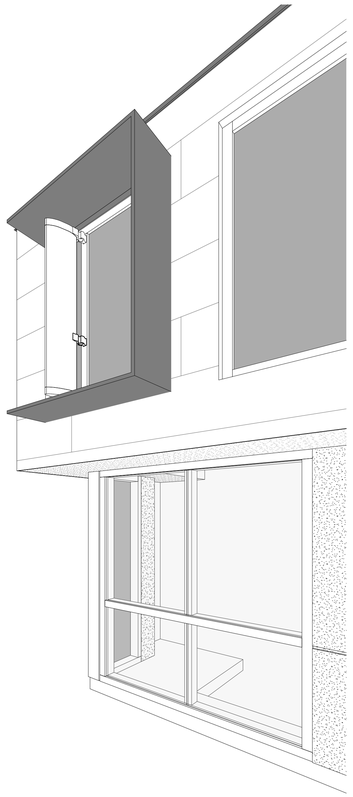
Sheet Title
ATRIUM ELEVATIONS

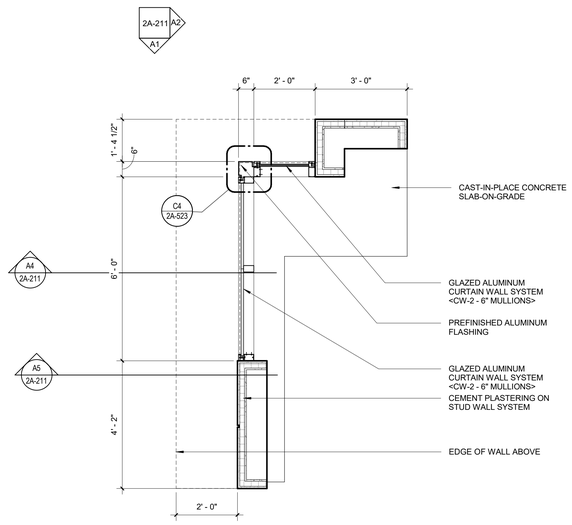
Sheet No.
2A-209

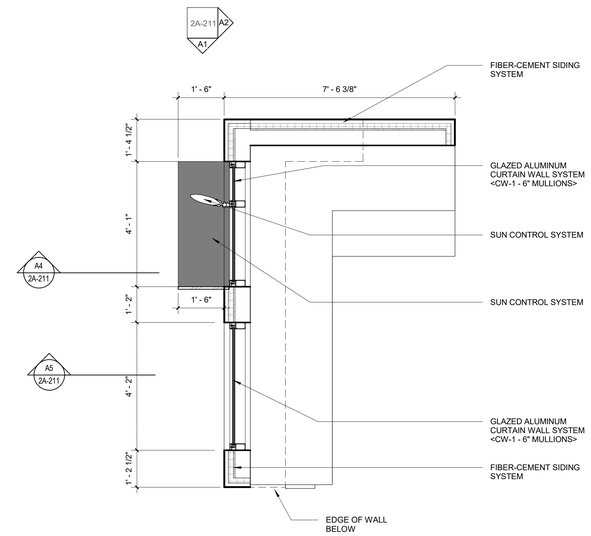
DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 3:37:03 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



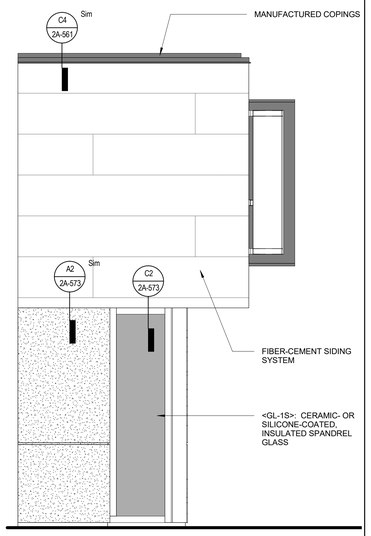


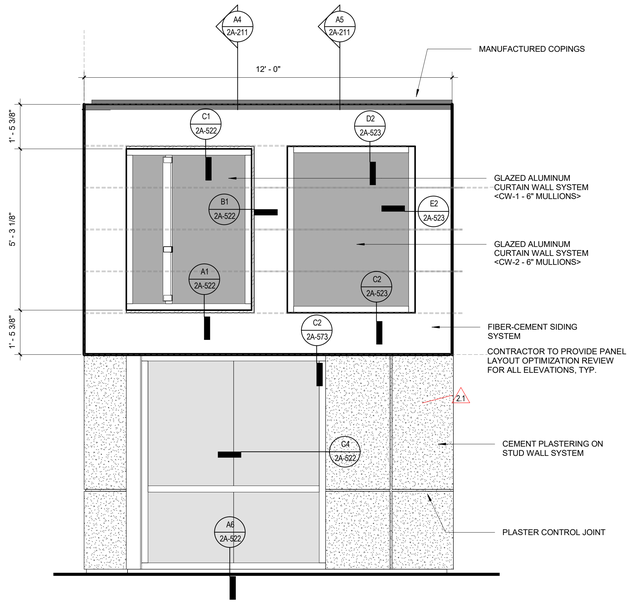


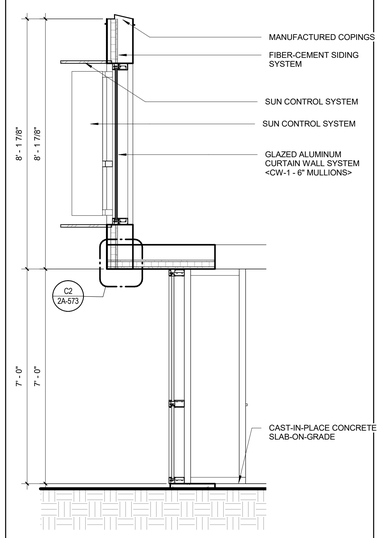


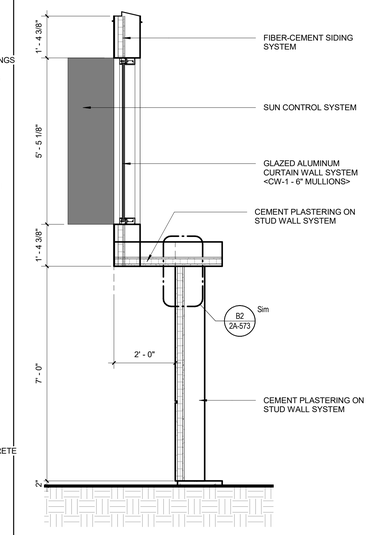
2.2

C1	CP2 VISUAL MOCKUP RENDER -1	C2	CP2 VISUAL MOCKUP RENDER -2	C3	LEVEL 1 PLAN - MOCKUP	C5	LEVEL 2 PLAN - MOCKUP
				B1 / 2A-202	1/2" = 1'-0"	A1 / 2A-202	1/2" = 1'-0"









A1	ELEVATION-1	A2	ELEVATION 2	A4	SECTION 1	A5	SECTION 2
C3 / 2A-211	1/2" = 1'-0"	C3 / 2A-211	1/2" = 1'-0"	A2 / 2A-211	1/2" = 1'-0"	A2 / 2A-211	1/2" = 1'-0"

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
VISUAL MOCKUP

Sheet No.
2A-211

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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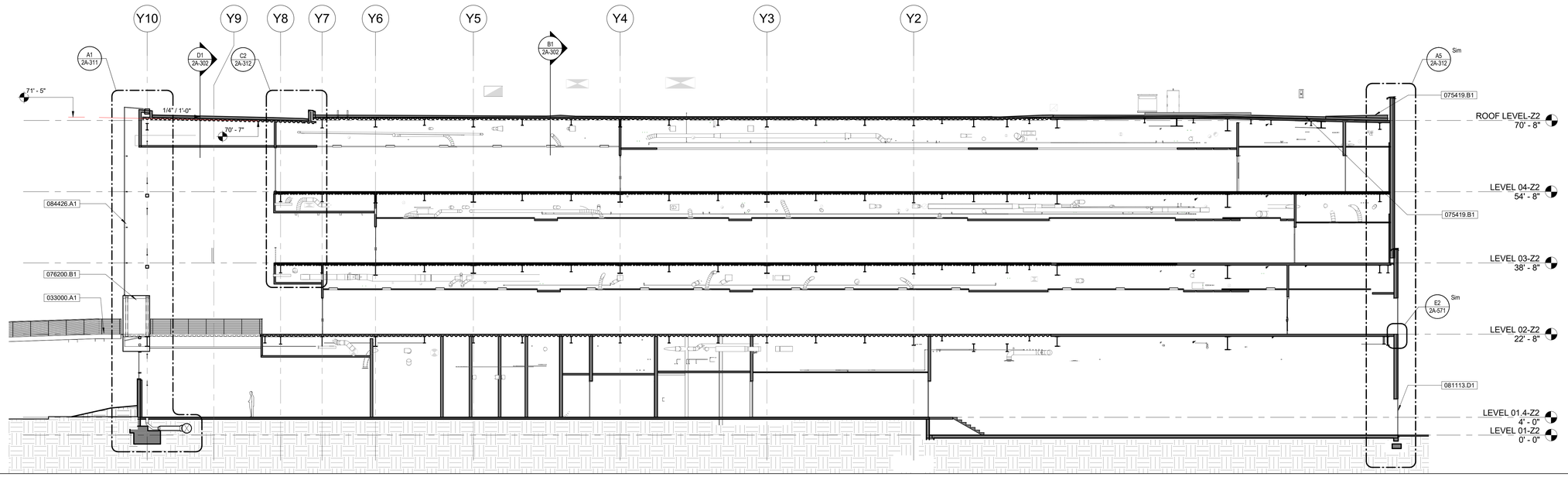
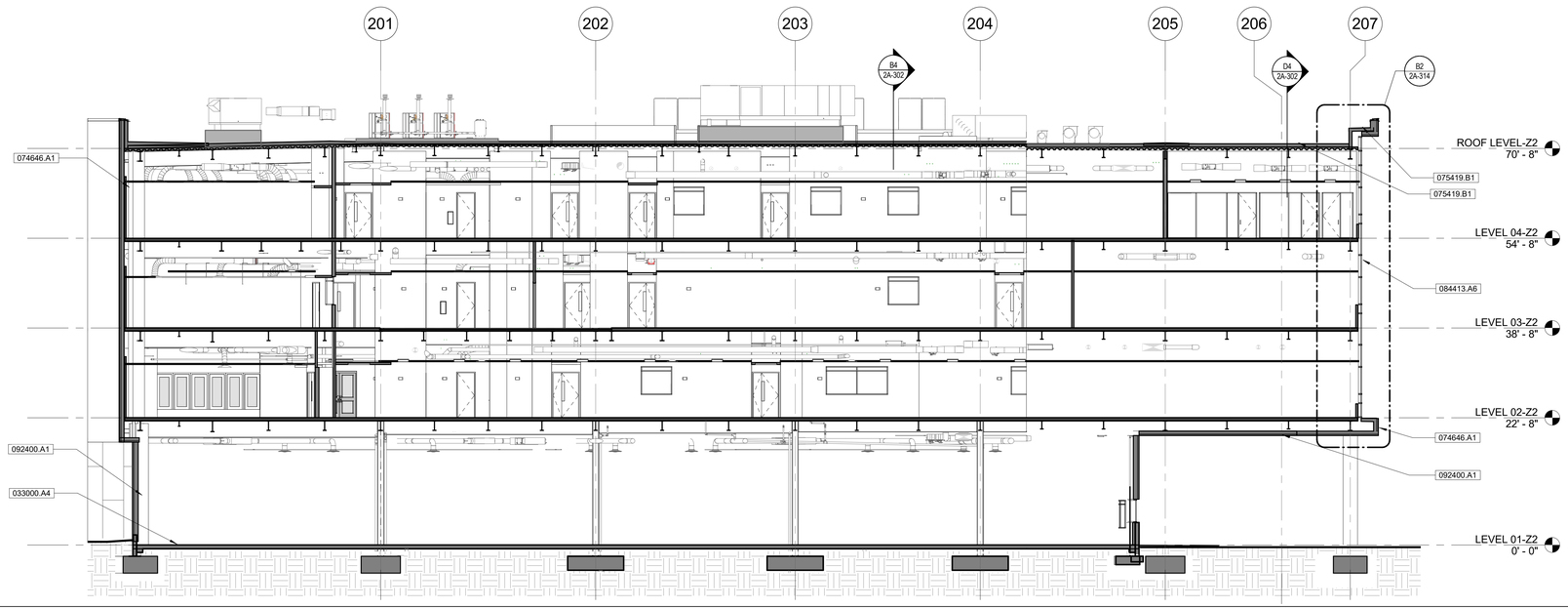


D1 LONGITUDINAL SECTION A

A1 / 2A-111 | 3/32" = 1'-0"



B1 LONGITUDINAL SECTION B

A1 / 2A-111 | 3/32" = 1'-0"

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033000.A4	CAST-IN-PLACE CONCRETE SLAB-ON-GRADE
074646.A1	FIBER-CEMENT SIDING SYSTEM
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A'
076200.B1	STAINLESS STEEL FLASHING <WITH No. 4 FINISH>
081113.D1	EXTERIOR INSULATED HOLLOW METAL DOOR. SEE DOOR SCHEDULE
084413.A6	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 7.5" MULLIONS>
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

BUILDING SECTIONS

Sheet No.

2A-301

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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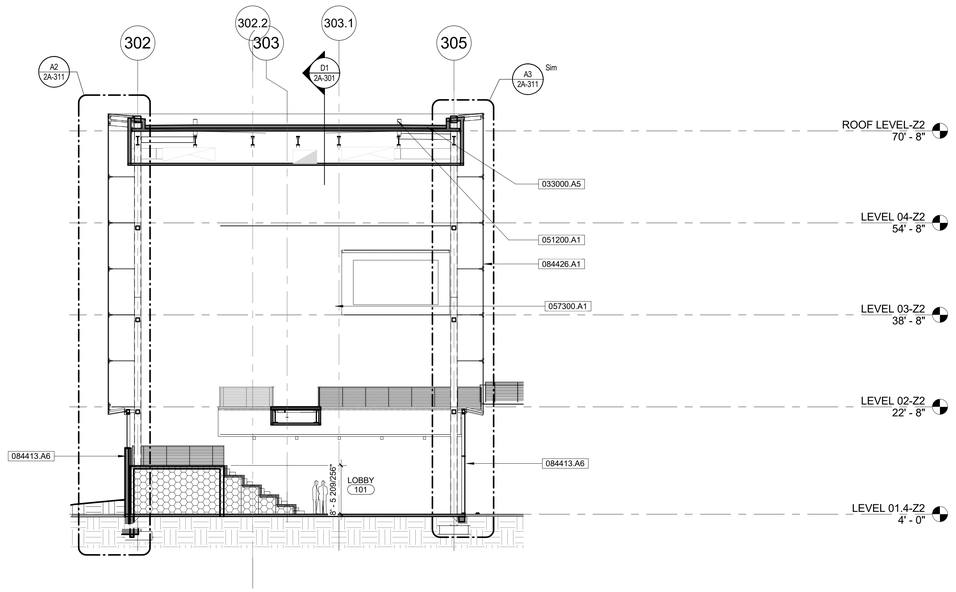
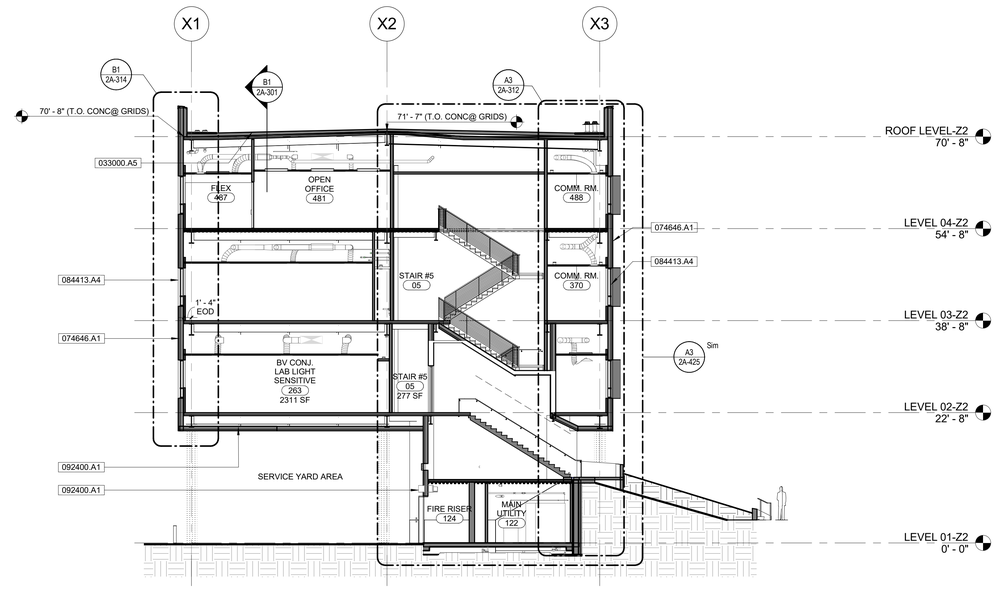
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



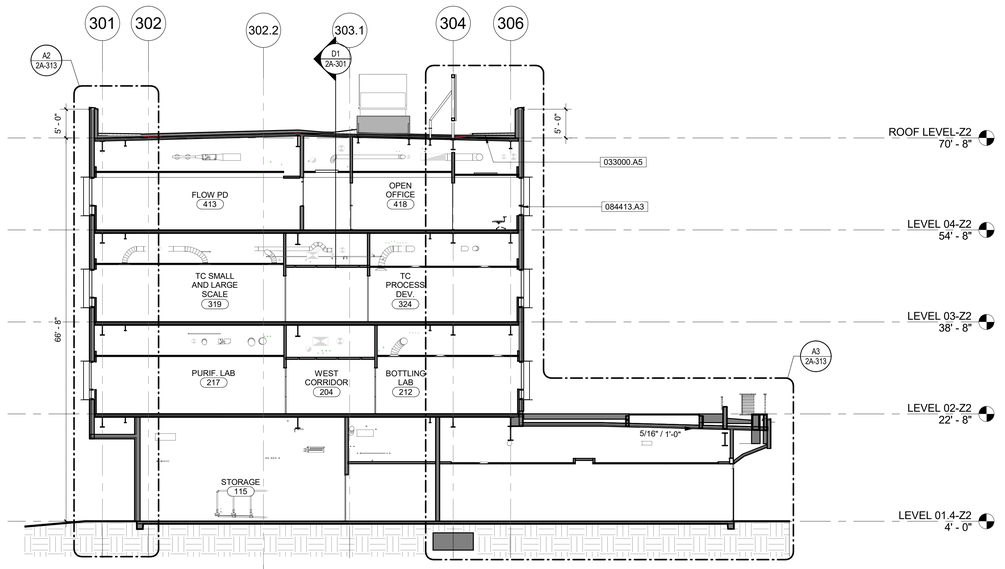
D1 BUILDING SECTION 1

A1 / 2A-111 | 3/32" = 1'-0"



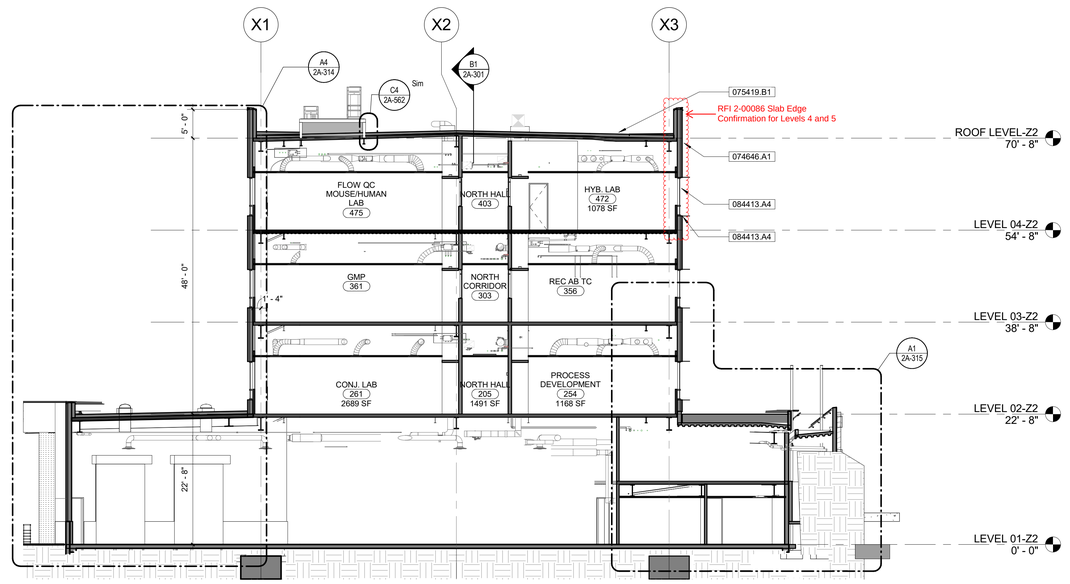
D4 BUILDING SECTION 4

A1 / 2A-111 | 3/32" = 1'-0"



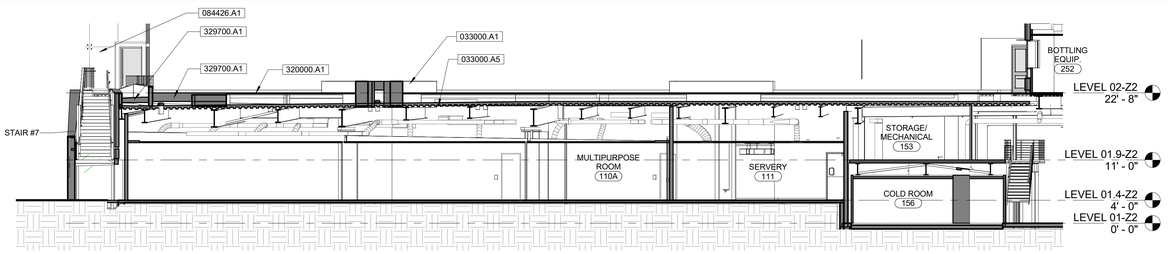
B1 BUILDING SECTION 2

A1 / 2A-111 | 3/32" = 1'-0"



B4 BUILDING SECTION 5

A1 / 2A-111 | 3/32" = 1'-0"



A1 BUILDING SECTION 3

A1 / 2A-112 | 3/32" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>
057300.A1	STAINLESS STEEL CABLE GUARD RAIL
074646.A1	FIBER-CEMENT SIDING SYSTEM
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A'
084413.A3	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-1 - 6" MULLIONS>
084413.A4	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 - 6" MULLIONS>
084413.A6	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 7.5" MULLIONS>
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
320000.A1	PEDESTAL SUPPORTED CONCRETE PAVERS
329700.A1	VEGETATED ROOF SYSTEM

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

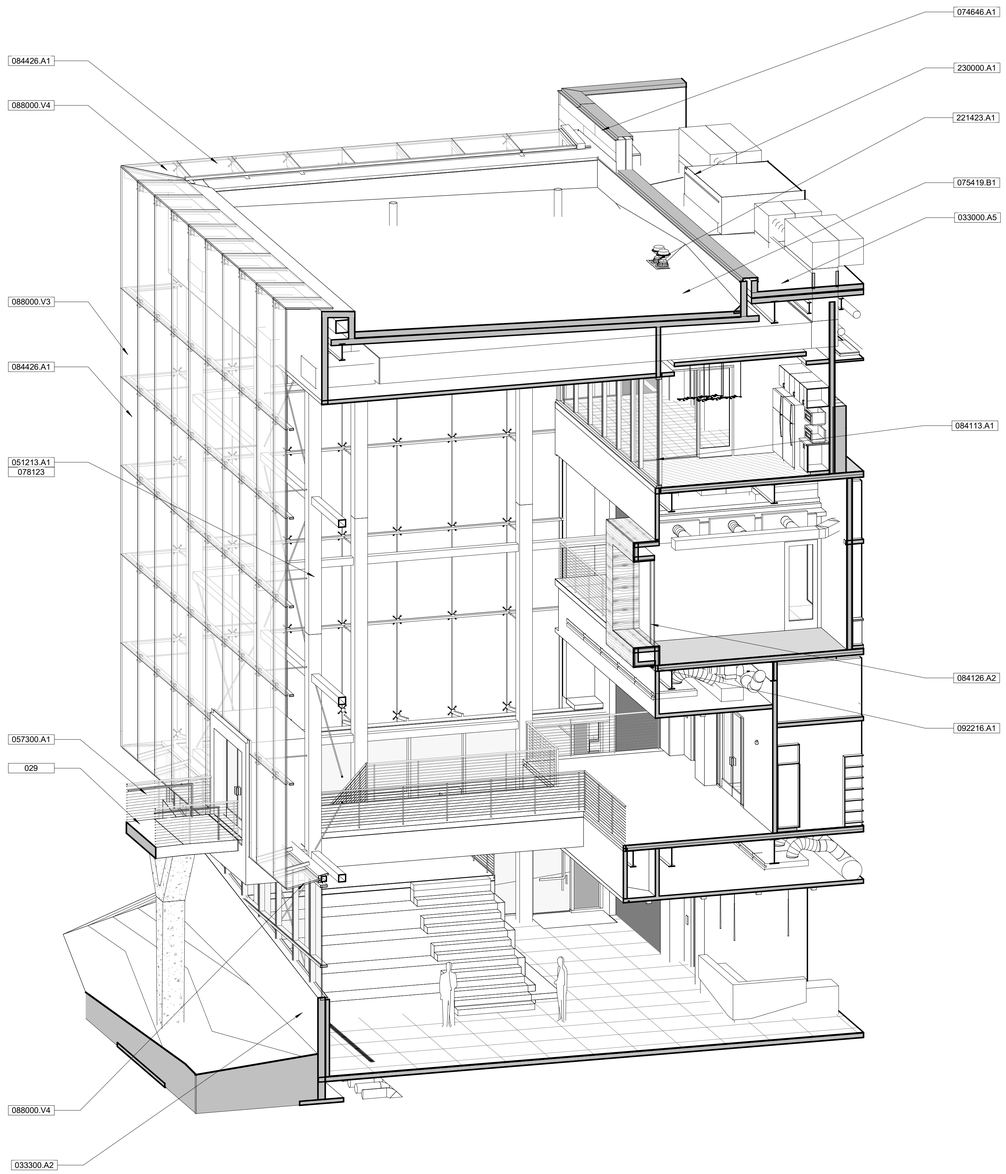
BUILDING SECTIONS

Sheet No.

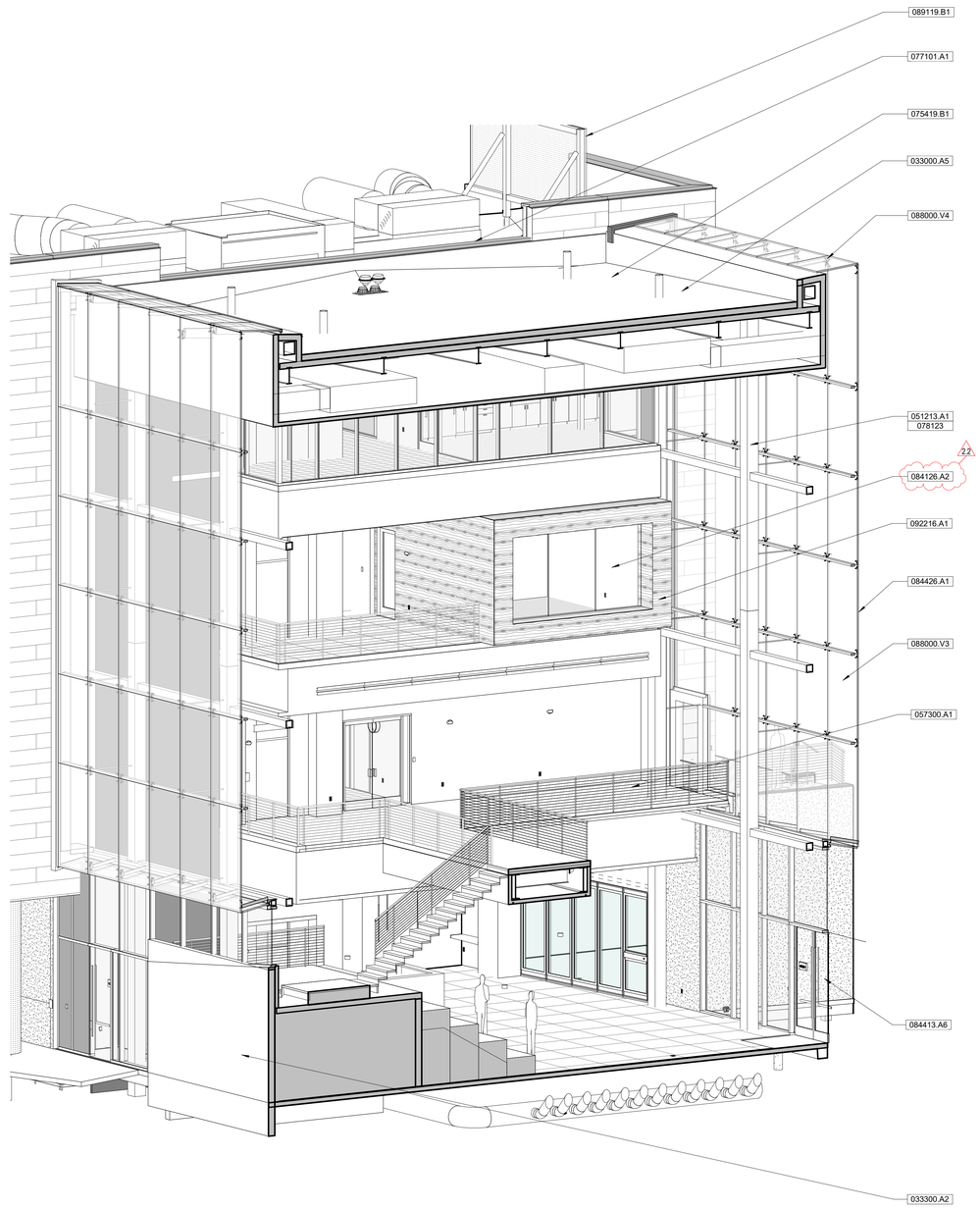
2A-302

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

10/2/2017 3:37:19 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



B1 ATRIUM 3D SECTION 1



B4 ATRIUM 3D SECTION 2

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
029	C.I.P. PEDESTRIAN BRIDGE TO ADJACENT BUILDING, SEE ENLARGED SHEETS

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
033300.A2	C.I.P. SITE WALL W/ SMOOTH FINISH, SEE LANDSCAPE
051213.A1	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) FRAMING. <SEE STRUCTURAL DRAWINGS>
057300.A1	STAINLESS STEEL CABLE GUARD RAIL
074646.A1	FIBER-CEMENT SIDING SYSTEM
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A'
077101.A1	MANUFACTURED COPINGS
078123	INTUMESCENT FIREPROOFING
084113.A1	INTERIOR ALUMINUM-FRAMED STOREFRONT SYSTEM, SF-1
084126.A2	ALL-GLASS STOREFRONT SYSTEM
084413.A6	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 7.5" MULLIONS>
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
088000.V3	<GL-3>: LOW-E ULTRA-CLEAR STRUCTURAL INSULATED VISION GLASS -VERTICAL
088000.V4	<GL-4>: LOW-E ULTRA-CLEAR STRUCTURAL INSULATED VISION GLASS - SLOPED
089119.B1	LOUVER SCREEN
092216.A1	NON-STRUCTURAL METAL FRAMING.
221423.A1	ROOF DRAIN AND OVERFLOW, SEE PLUMBING
230000.A1	HVAC EQUIPMENT, SEE MECHANICAL

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
3D BUILDING SECTIONS AT ATRIUM

Sheet No.
2A-303

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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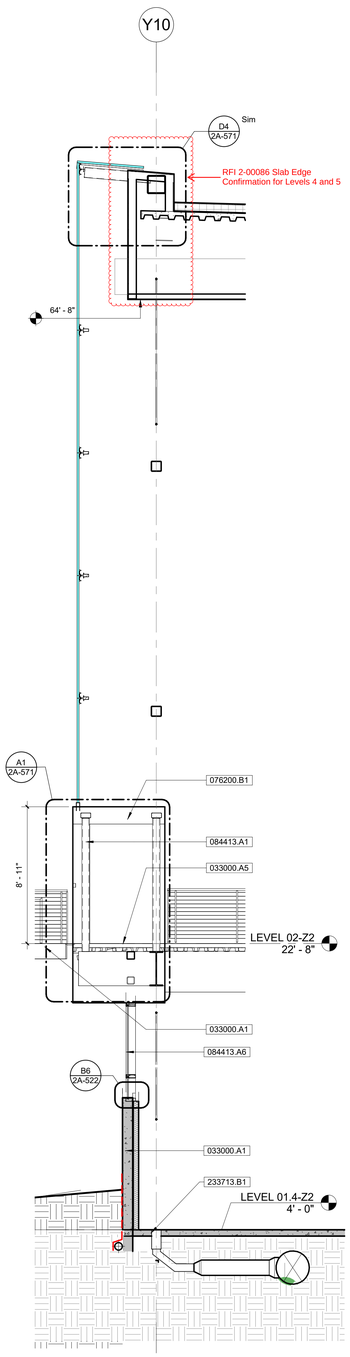
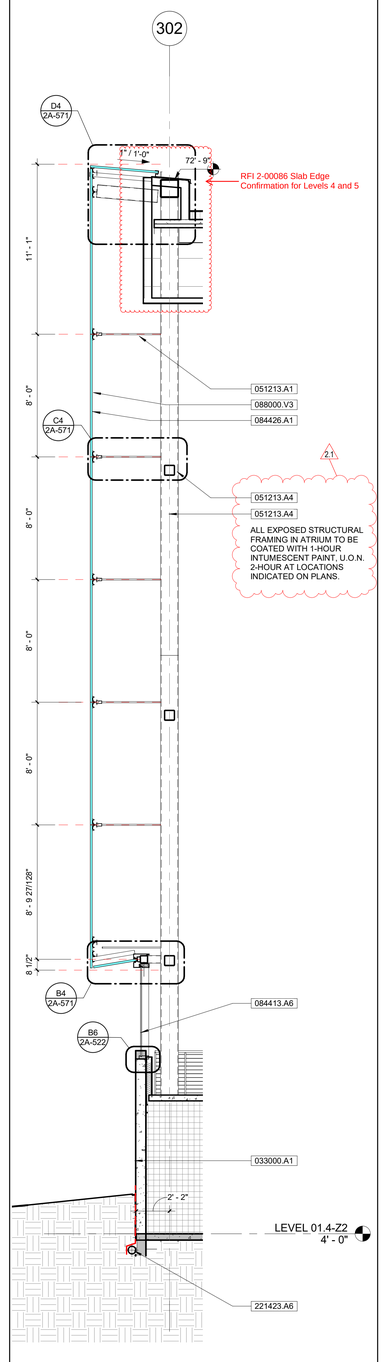


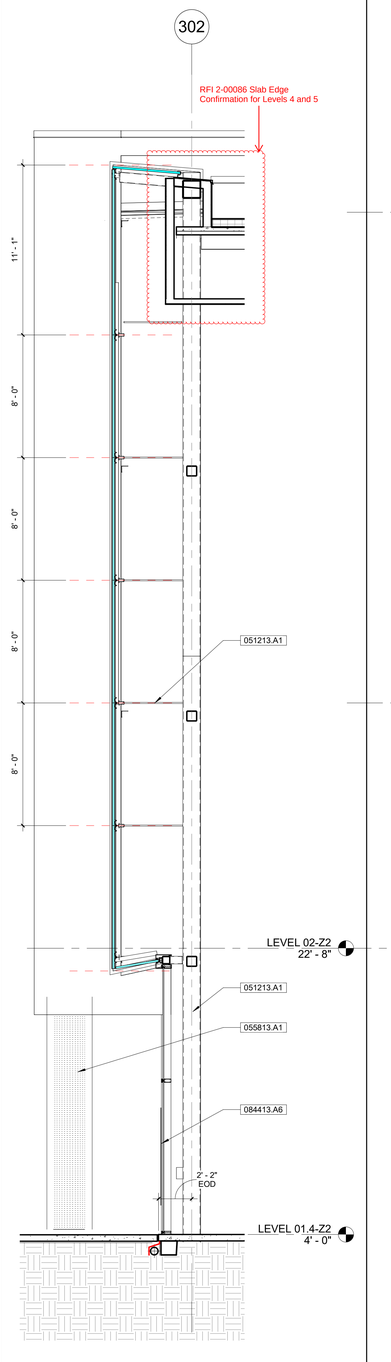
A1 SECTION - L2 BRIDGE ENTRY

D1 / 2A-301 | 1/4" = 1'-0"



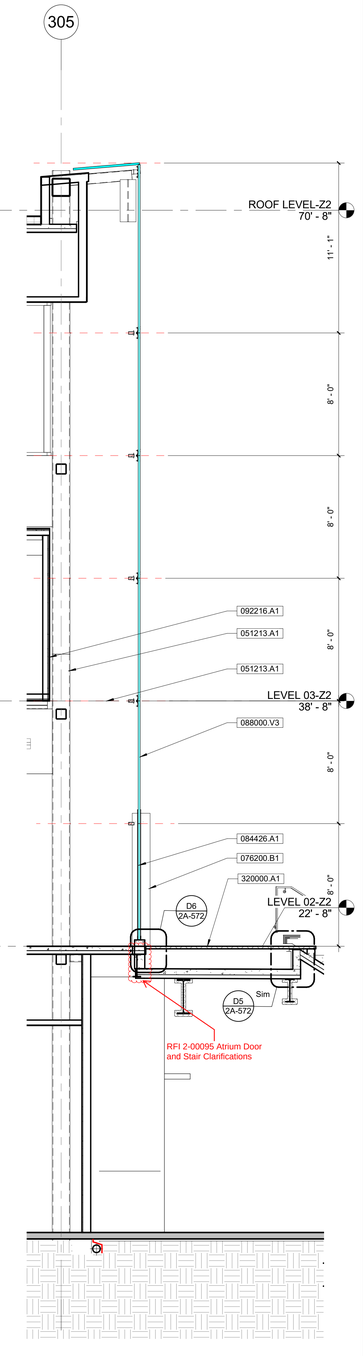
A2 SECTION - RAISED STAIR FLOOR

D1 / 2A-302 | 1/4" = 1'-0"



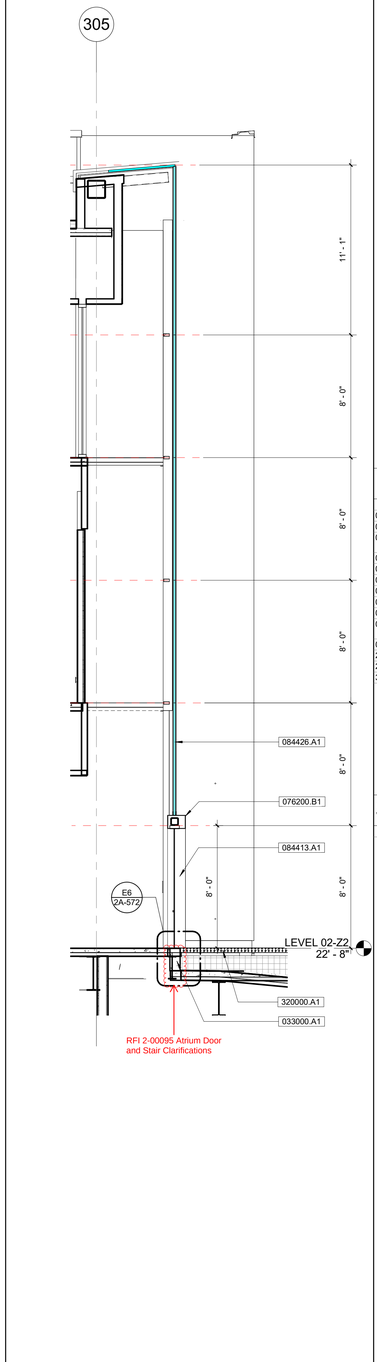
A3 SECTION - WEST @ PANEL SIDING

A1 / 2A-113 | 1/4" = 1'-0"



A4 SECTION - L2 EAST THROUGH STRUCT GLASS

A1 / 2A-113 | 1/4" = 1'-0"



A5 SECTION - L2 EAST THROUGH DOOR

A1 / 2A-123 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
051213.A1	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) FRAMING. <SEE STRUCTURAL DRAWINGS>
051213.A4	INTERIOR AESS, PAINTED. <SEE STRUCTURAL DRAWINGS>
055813.A1	ALUMINUM COLUMN COVERS
076200.B1	STAINLESS STEEL FLASHING <WITH No. 4 FINISH>
084413.A1	GLAZED ALUMINUM CURTAIN WALL SYSTEM
084413.A6	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 7.5" MULLIONS>
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
088000.V3	<GL-3>: LOW-E ULTRA-CLEAR STRUCTURAL INSULATED VISION GLASS -VERTICAL
092216.A1	NON-STRUCTURAL METAL FRAMING.
221423.A6	PERFORATED FOUNDATION DRAINAGE, SEE PLUMBING
233713.B1	LINEAR SLOT DIFFUSER
320000.A1	PEDESTAL SUPPORTED CONCRETE PAVERS

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

Sheet Title

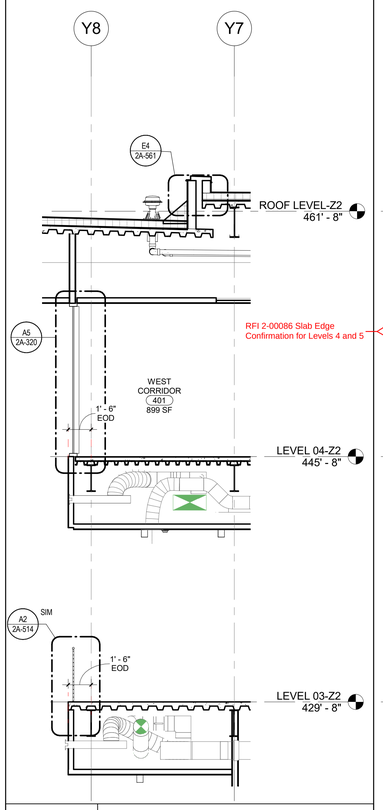
WALL SECTIONS

Sheet No.

2A-311

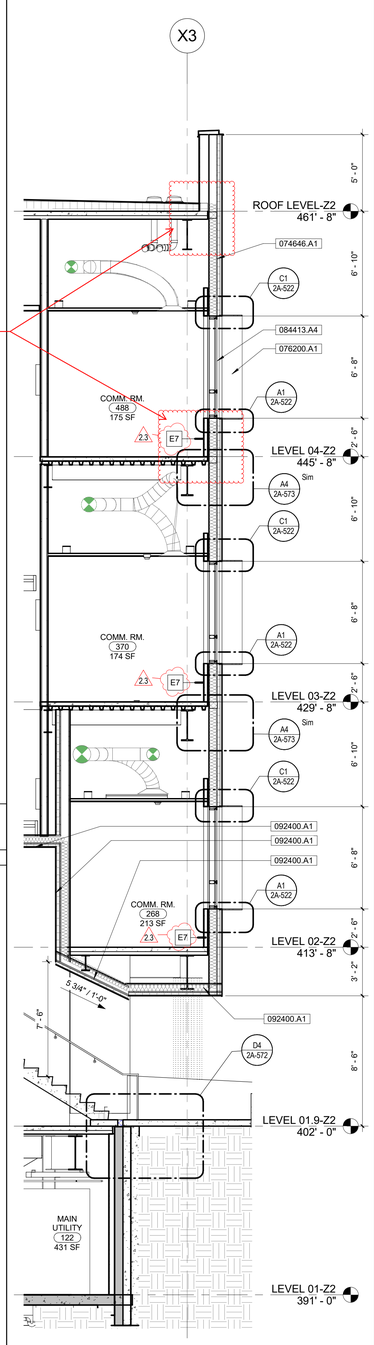
DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

11/17/2017 1:11:18 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED IN ANY MANNER WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. ALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED



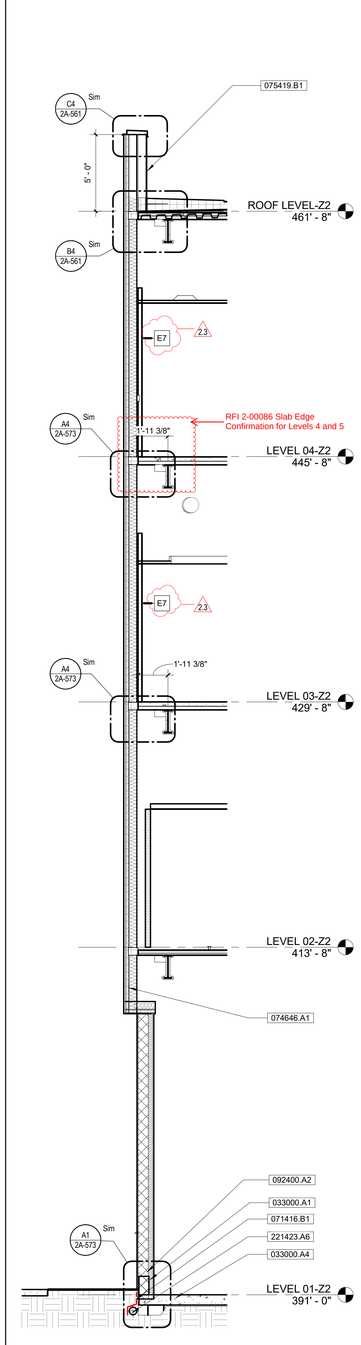
C2 SECTION 8

D1 / 2A-301 | 1/4" = 1'-0"



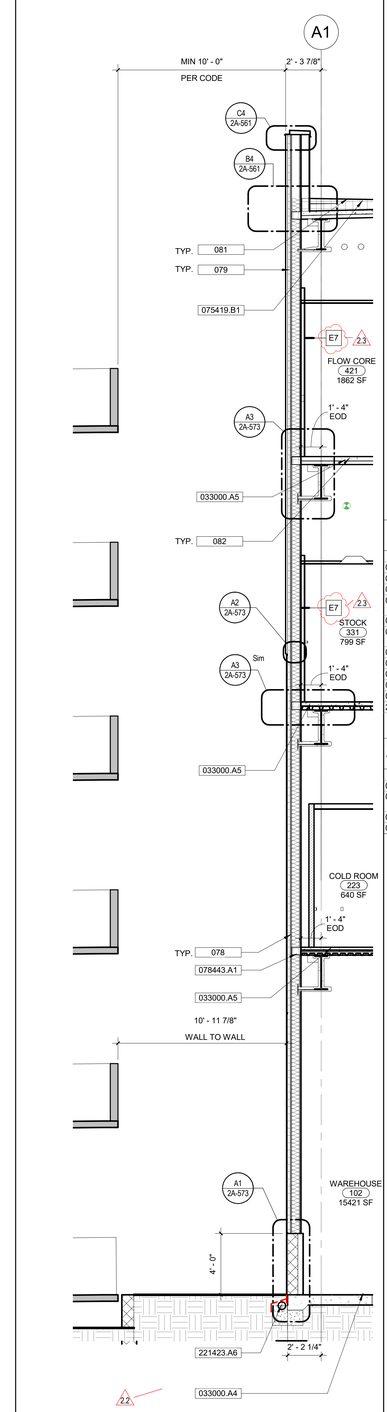
A3 SECTION - L1 @ STAIR #4

D4 / 2A-302 | 1/4" = 1'-0"



A4 SECTION - L1 to L4 WEST

A1 / 2A-111 | 1/4" = 1'-0"



A5 SECTION - 2HR WALL - NORTH

A1 / 2A-112 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033000.A4	CAST-IN-PLACE CONCRETE SLAB-ON-GRADE
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
071416.B1	COMPOSITE LIQUID POLYURETHANE U.V.-STABLE WATERPROOFING, CUSTOM COLOR <WP-d>
074646.A1	FIBER-CEMENT SIDING SYSTEM
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A' ICC-ES REPORT ESR-1157
076200.A1	PREFINISHED ALUMINUM FLASHING
078443.A1	JOINT FIRESTOPPING SYSTEM
084413.A4	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 - 6" MULLIONS>
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
092400.A2	CEMENT PLASTERING ON CONCRETE/MASONRY SYSTEM
221423.A6	PERFORATED FOUNDATION DRAINAGE, SEE PLUMBING

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
078	TITLE 24 INFO: STUCCO WALL R-VALUE: CAVITY R19, CONTINUOUS R10
079	TITLE 24 INFO: TYPICAL EXTERIOR WALL R VALUE: CAVITY R19, CONTINUOUS R8
081	TITLE 24 INFO: ROOF R VALUE: R25
082	TITLE 24 INFO: INTERIOR FLOOR R VALUE: R29

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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
WALL SECTIONS

Sheet No.
2A-312

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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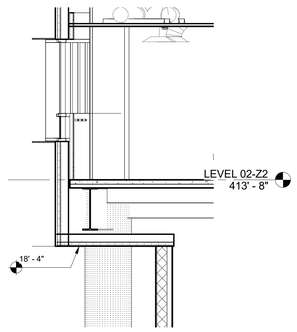
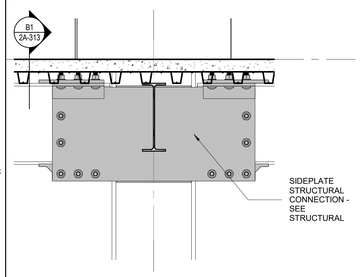


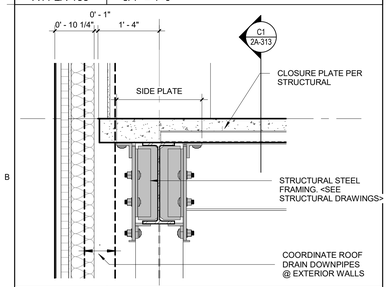
D1 SECTION - WEST SOFFIT HEIGHT

A1 / 2A-114 | 1/4" = 1'-0"



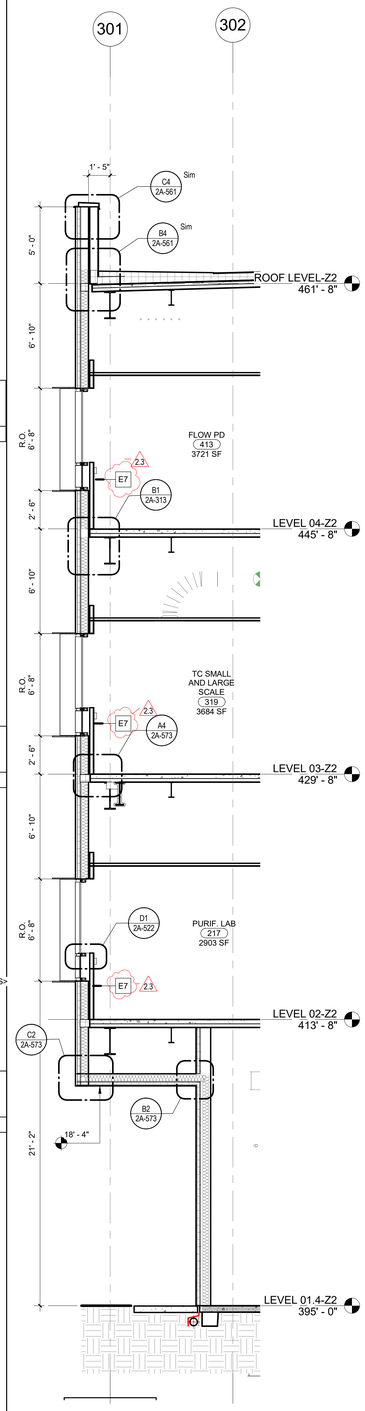
C1 ELEVATION - STRUCTURAL SIDE PLATE

A1 / 2A-133 | 3/4" = 1'-0"



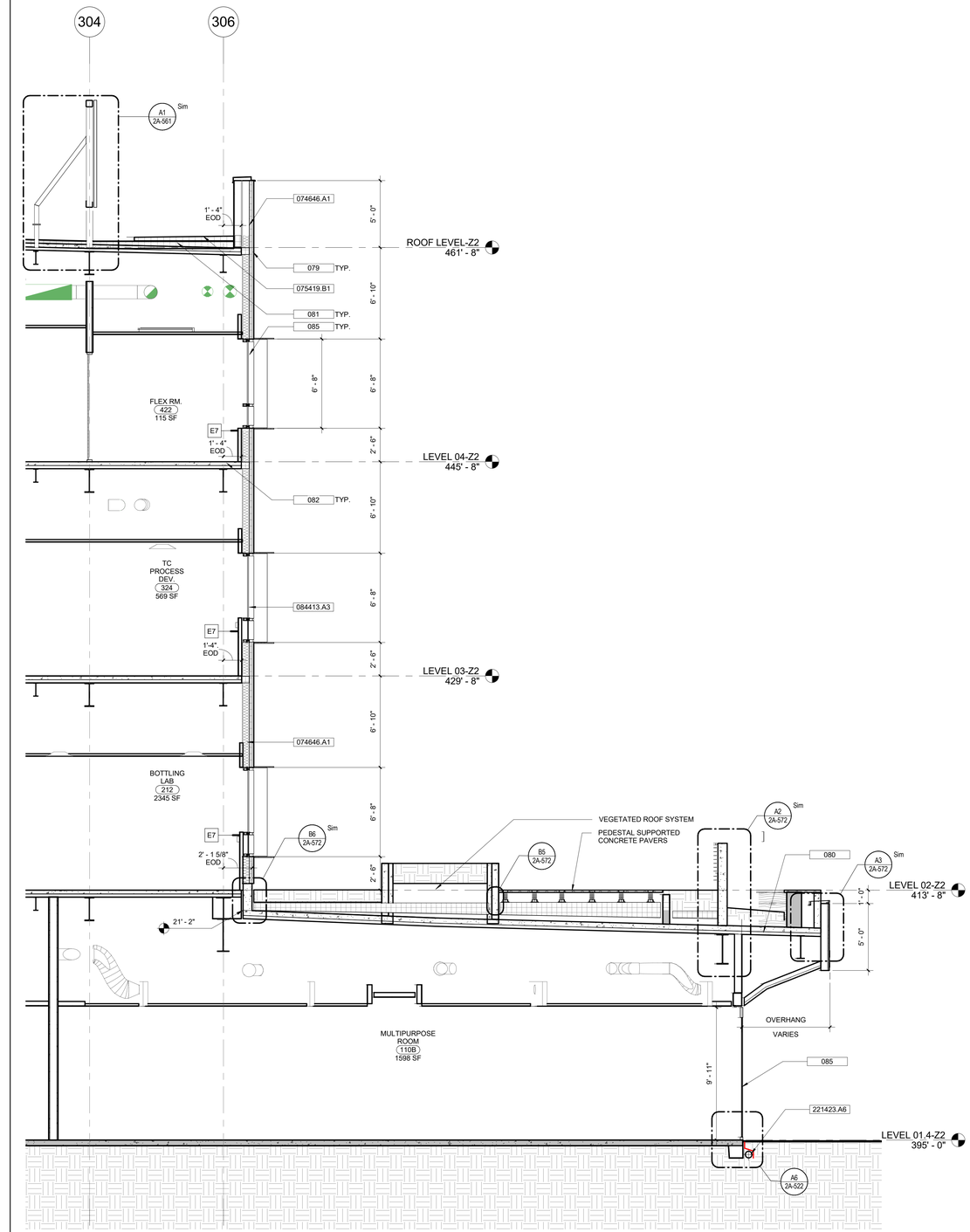
B1 SECTION - STRUCTURAL SIDE PLATE

A2 / 2A-313 | 3/4" = 1'-0"



A2 WALL SECTION 11

B1 / 2A-302 | 1/4" = 1'-0"



A3 WALL SECTION 16

RFI 2-00040 Sequence 1 Steel (RFIs 73 - 76)

A2 / 2A-203 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A11	CLOSURE PLATE PER STRUCTURAL
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>
074646.A1	FIBER-CEMENT SIDING SYSTEM
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A' ICC-ES REPORT ESR-1157
084413.A3	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-1 - 6" MULLIONS>
221423.A6	PERFORATED FOUNDATION DRAINAGE, SEE PLUMBING
320000.A1	PEDESTAL SUPPORTED CONCRETE PAVERS
329700.A1	VEGETATED ROOF SYSTEM

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
079	TITLE 24 INFO: TYPICAL EXTERIOR WALL R VALUE: CAVITY R19, CONTINUOUS R8
080	TITLE 24 INFO: GREEN ROOF R VALUE: CONTINUOUS R46
081	TITLE 24 INFO: ROOF R VALUE: R25
082	TITLE 24 INFO: INTERIOR FLOOR R VALUE: R29
085	TITLE 24 INFO: GLAZING U FACTOR 0.49, SHGC 0.25, VT 0.54, 33 STC MIN.

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
WALL SECTIONS

Sheet No.
2A-313

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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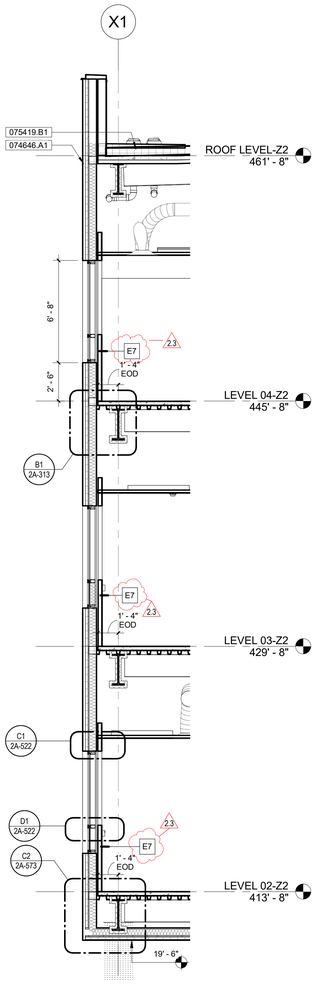
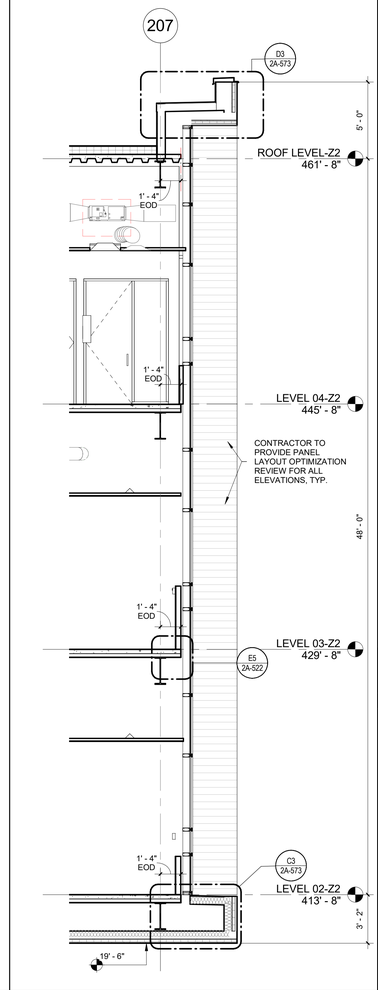


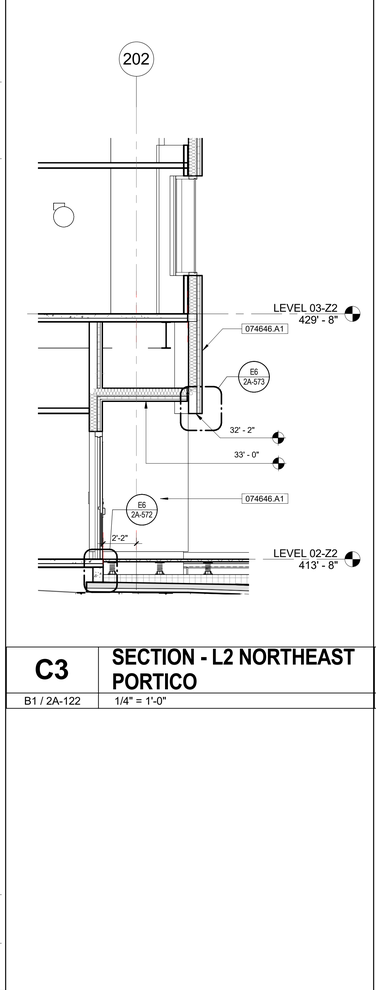
B1 SECTION - SOFFIT

D4 / 2A-302 | 1/4" = 1'-0"



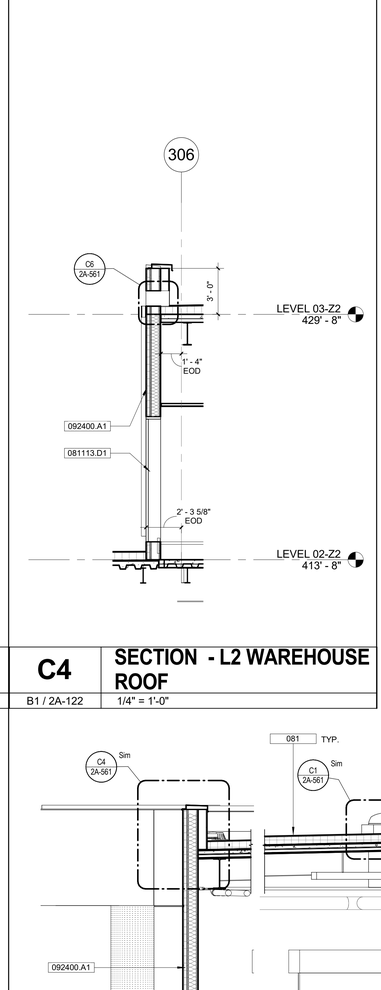
B2 SECTION - EAST CURTAIN WALL

B1 / 2A-301 | 1/4" = 1'-0"



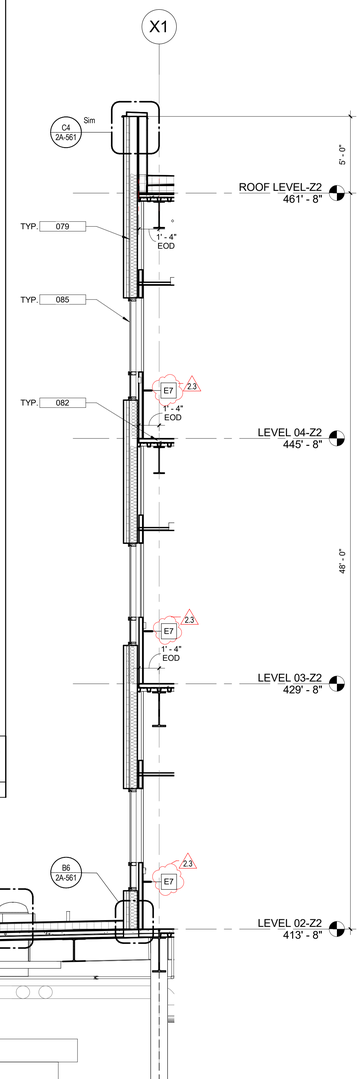
C3 SECTION - L2 NORTHEAST PORTICO

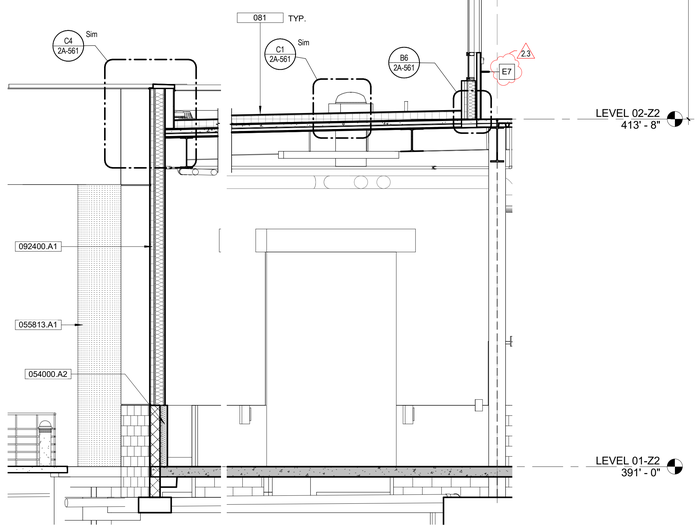
B1 / 2A-122 | 1/4" = 1'-0"



C4 SECTION - L2 WAREHOUSE ROOF

B1 / 2A-122 | 1/4" = 1'-0"





A4 SECTION - WAREHOUSE PARAPET

B4 / 2A-302 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
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3. ALL WALLS TO BE FULL HEIGHT U.N.O.
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5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
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   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
054000.A2	STEEL STUD
055813.A1	ALUMINUM COLUMN COVERS
074646.A1	FIBER-CEMENT SIDING SYSTEM
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A' ICC-ES REPORT ESR-1157
081113.D1	EXTERIOR INSULATED HOLLOW METAL DOOR. SEE DOOR SCHEDULE
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
079	TITLE 24 INFO: TYPICAL EXTERIOR WALL R VALUE: CAVITY R19, CONTINUOUS R8
081	TITLE 24 INFO: ROOF R VALUE: R25
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085	TITLE 24 INFO: GLAZING U FACTOR 0.49, SHGC 0.25, VT 0.54, 33 STC MIN.

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2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
WALL SECTIONS

Sheet No.
2A-314

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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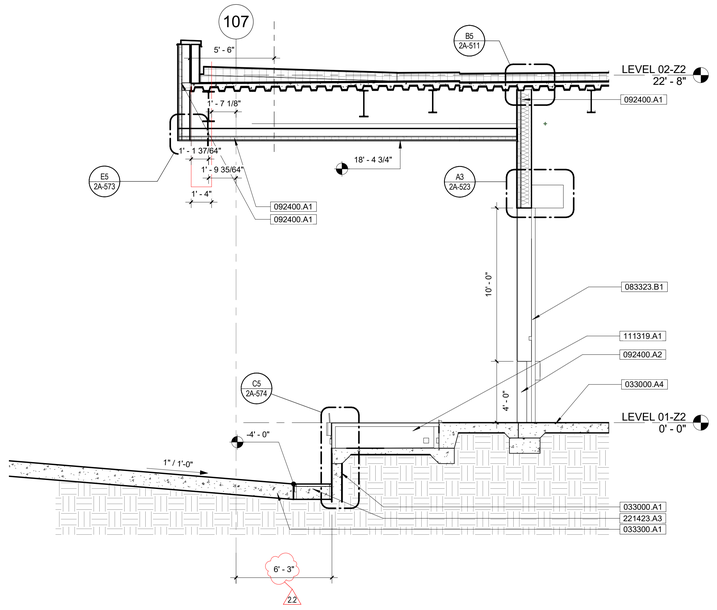
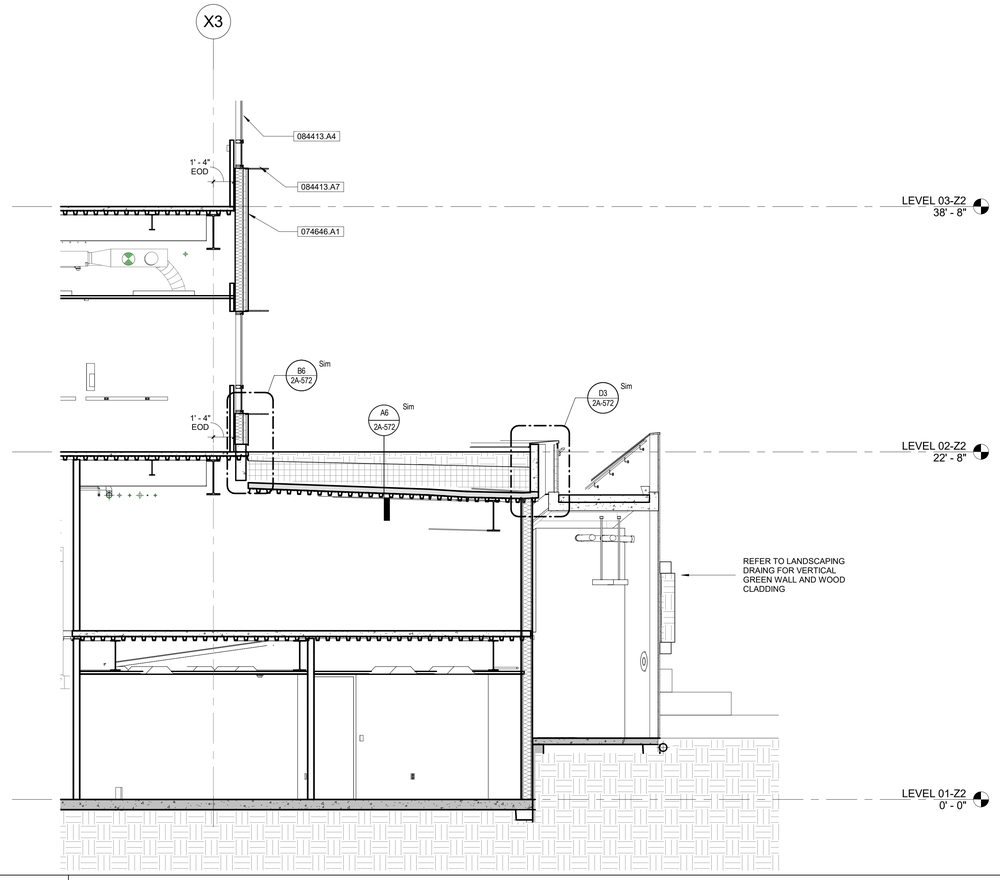


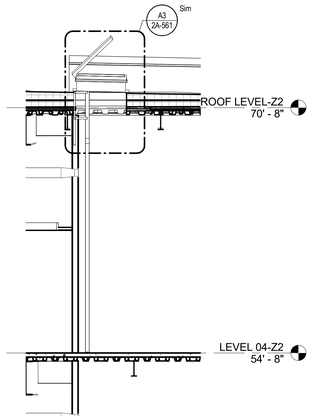
D2 SECTION - LOADING DOCK WALL

A1 / 2A-112 | 1/4" = 1'-0"



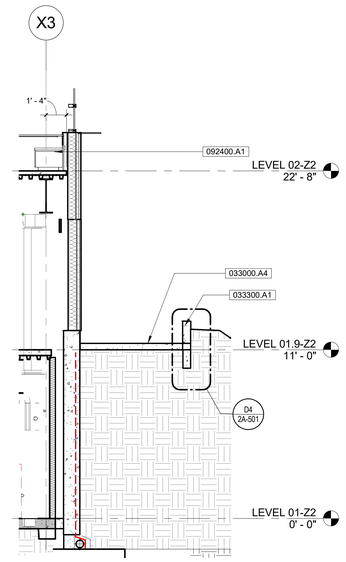
A1 SECTION - RETAINING WALL @ MEZZANINE

B4 / 2A-302 | 1/4" = 1'-0"



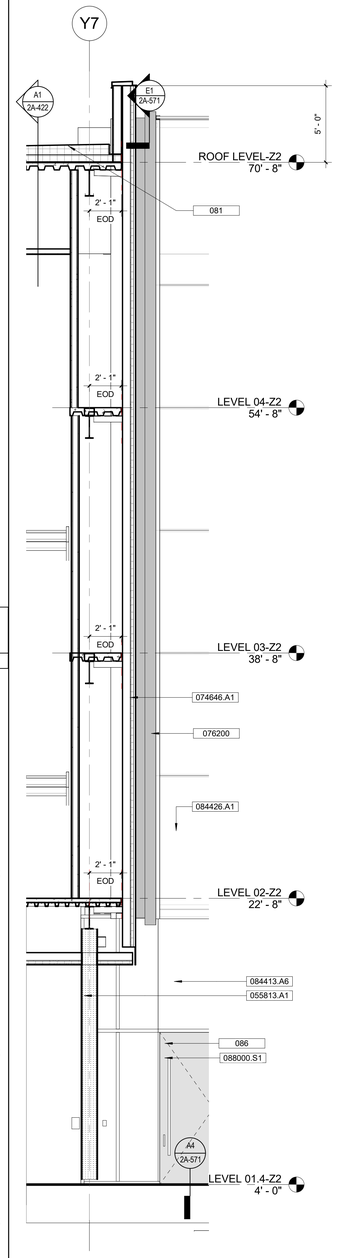
C4 SECTION - ROOF ACCESS HATCH

B1 / 2A-142 | 1/4" = 1'-0"



A4 SECTION- RETAINING WALL @ LEVEL 2

A1 / 2A-112 | 1/4" = 1'-0"



A5 SECTION THROUGH WEST ELEVATION

A1 / 2A-422 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033000.A4	CAST-IN-PLACE CONCRETE SLAB-ON-GRADE
033300.A1	ARCHITECTURAL CONCRETE
055813.A1	ALUMINUM COLUMN COVERS
074646.A1	FIBER-CEMENT SIDING SYSTEM
076200	SHEET METAL FLASHING AND TRIM
083323.B1	OVERHEAD COILING DOOR HOOD
084413.A4	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 - 6" MULLIONS>
084413.A6	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-2 7.5" MULLIONS>
084413.A7	SUN CONTROL SYSTEM
084426.A1	STRUCTURAL POINT-SUPPORTED GLAZING SYSTEM
088000.S1	<GL-1S>: CERAMIC- OR SILICONE-COATED, INSULATED SPANDREL GLASS
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
092400.A2	CEMENT PLASTERING ON CONCRETE/MASONRY SYSTEM
111319.A1	RECESSED DOCK LEVELER
221423.A3	TRENCH DRAIN

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
081	TITLE 24 INFO: ROOF R VALUE: R25
086	TITLE 24 INFO: DOOR GLAZING U FACTOR 0.49, SHGC 0.25, VT 0.54

LEGEND - EXTERIOR ELEVATION

- GL-1 VISION- 088000 — U FACTOR = 0.49, SHGC = 0.25, VT = 0.54
- GL-1S INSULATED SPANDREL GLASS- 088000
- GL-3 VERTICAL GLASS @ ATRIUM- 088000 — U FACTOR= 0.27, SHGC= 0.24, VT= 0.52
- FIBER CEMENT SIDING PANEL (120"x16") BY EQUITONE TECTIVA - RECTIFIED TRIM FINISH. W/ COLOR TBD. (ICC-ESR-3910)- 074646
- STUCCO 1 - HAND TROWELLED PASTER - SANTA BARBARA FINISH. PATTERN & COLOR TBD.- 092400
- ALUMINUM COLUMN WRAP- 055813
- LINEAR METAL CEILING (LM-2)-095423
- EXPOSED ARCHITECTURAL CONCRETE-033300

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
WALL SECTIONS

Sheet No.
2A-315

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

11/17/2017 1:11:56 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
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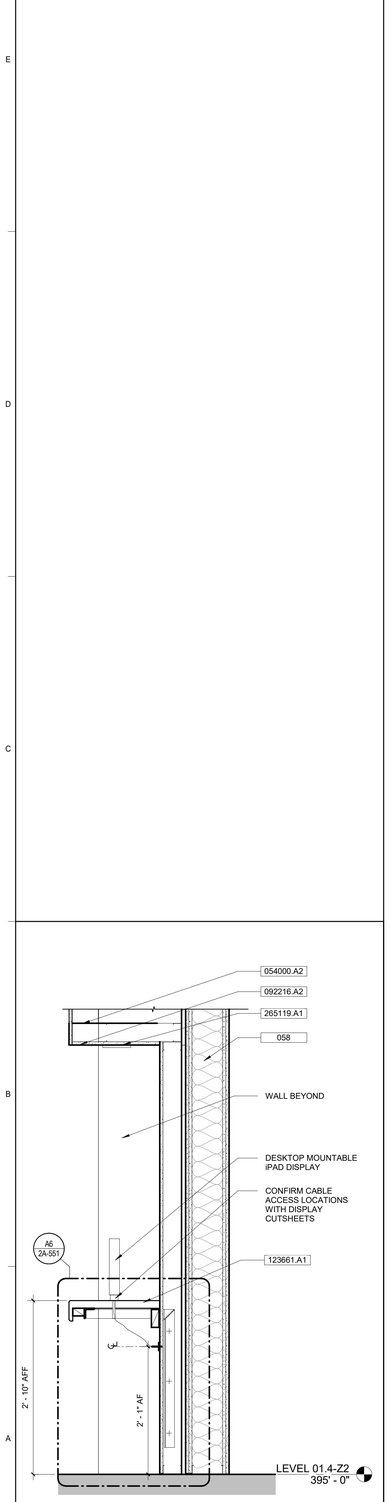
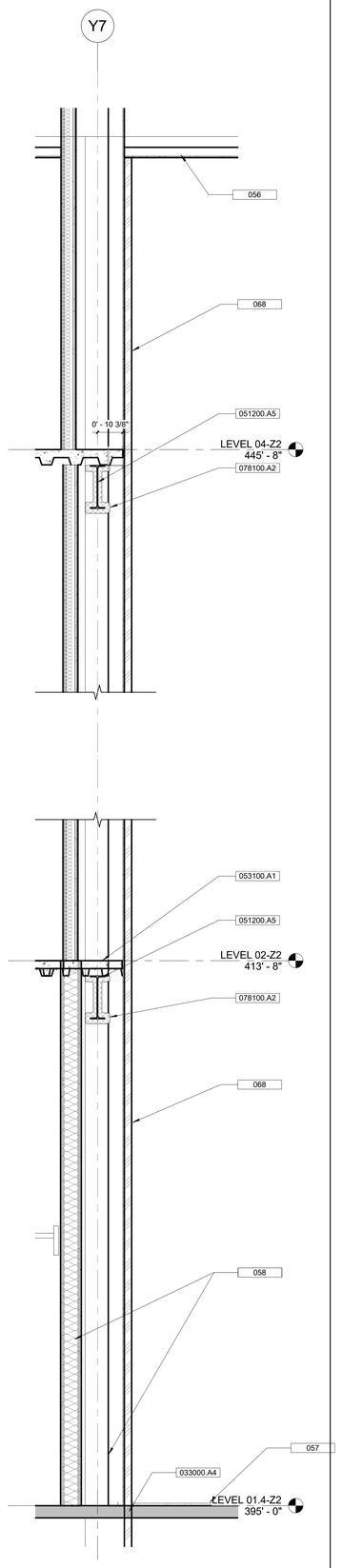


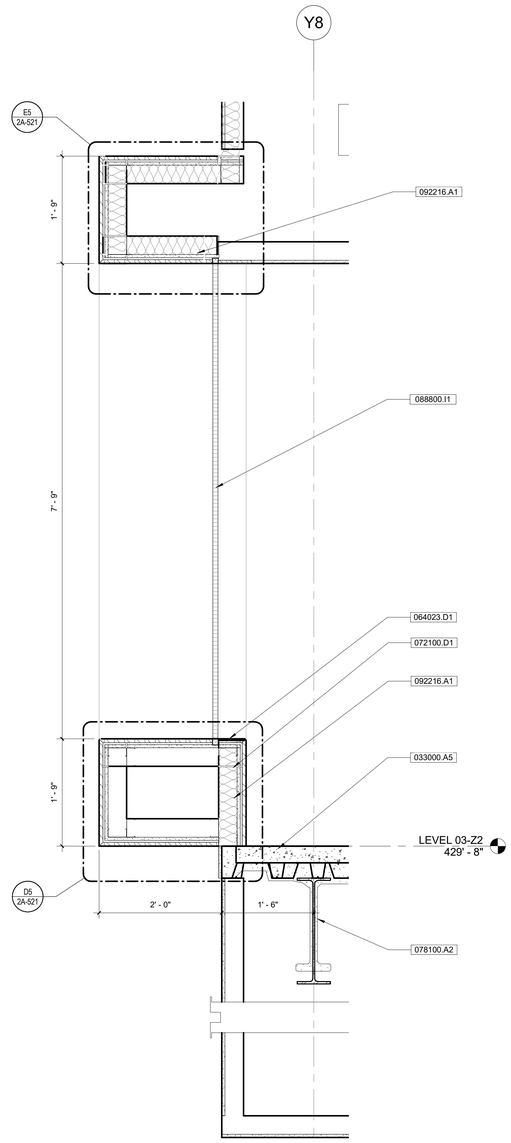
A1 WALL SECTION @ LOBBY DISPLAY

A1 / 2A-113 | 1" = 1'-0"



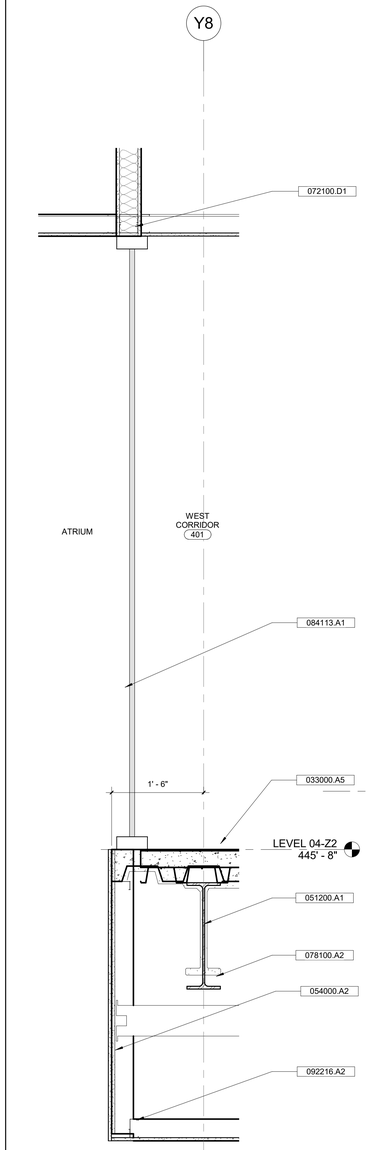
A2 WALL SECTION @ ART FEATURE

A1 / 2A-113 | 1/2" = 1'-0"



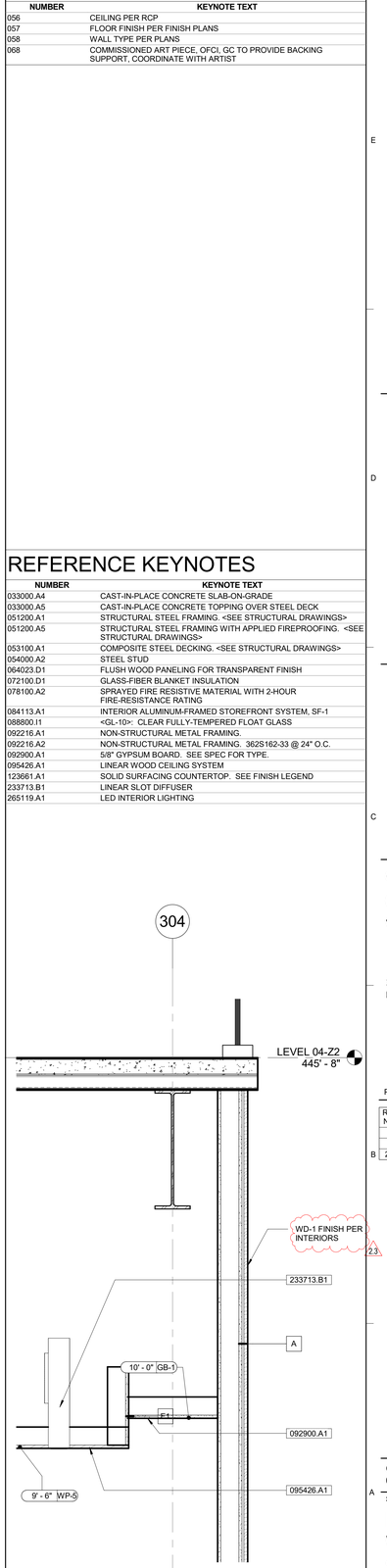
A3 WALL SECTION @ CONFERENCE ROOM

A1 / 2A-133 | 1" = 1'-0"



A5 WALL SECTION @ WEST CORRIDOR

A1 / 2A-143 | 1" = 1'-0"



A6 WALL SECTION @ CONF CEILING

A1 / 2A-143 | 1" = 1'-0"

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
056	CEILING PER RCP
057	FLOOR FINISH PER FINISH PLANS
058	WALL TYPE PER PLANS
068	COMMISSIONED ART PIECE, OFCI. GC TO PROVIDE BACKING SUPPORT, COORDINATE WITH ARTIST

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A4	CAST-IN-PLACE CONCRETE SLAB-ON-GRADE
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>
051200.A5	STRUCTURAL STEEL FRAMING WITH APPLIED FIREPROOFING. <SEE STRUCTURAL DRAWINGS>
053100.A1	COMPOSITE STEEL DECKING. <SEE STRUCTURAL DRAWINGS>
054000.A2	STEEL STUD
064023.D1	FLUSH WOOD PANELING FOR TRANSPARENT FINISH
072100.D1	GLASS-FIBER BLANKET INSULATION
078100.A2	SPRAYED FIRE RESISTIVE MATERIAL WITH 2-HOUR FIRE-RESISTANCE RATING
084113.A1	INTERIOR ALUMINUM-FRAMED STOREFRONT SYSTEM, SF-1
088800.I1	<GL-10>: CLEAR FULLY-TEMPERED FLOAT GLASS
092216.A1	NON-STRUCTURAL METAL FRAMING.
092216.A2	NON-STRUCTURAL METAL FRAMING. 362S162-33 @ 24" O.C.
092900.A1	5/8" GYPSUM BOARD. SEE SPEC FOR TYPE.
095426.A1	LINEAR WOOD CEILING SYSTEM
123661.A1	SOLID SURFACING COUNTERTOP. SEE FINISH LEGEND
233713.B1	LINEAR SLOT DIFFUSER
265119.A1	LED INTERIOR LIGHTING

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
B 2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

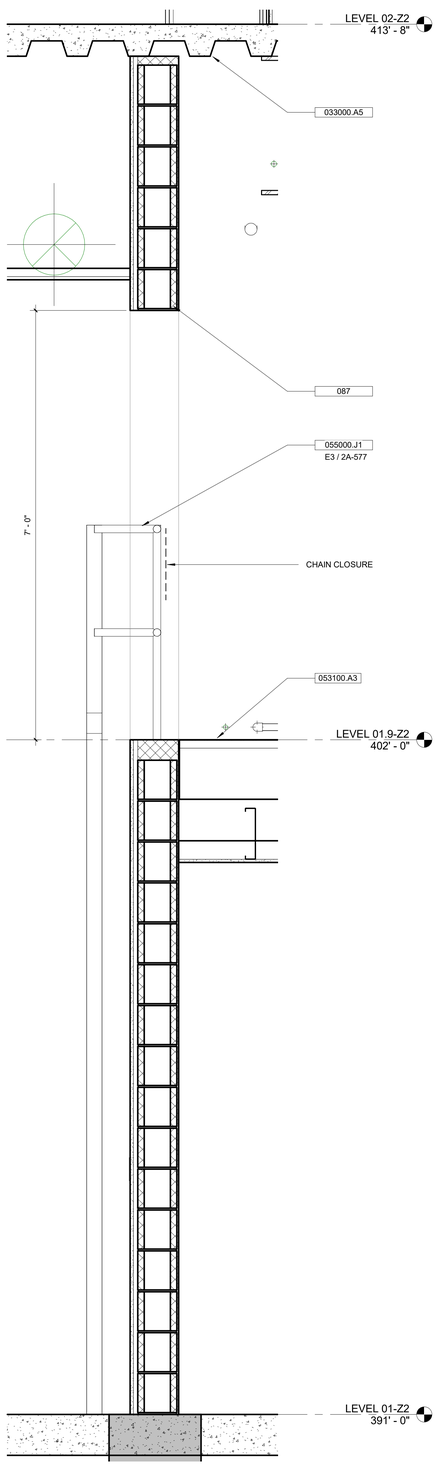
Sheet Title

INTERIOR WALL SECTIONS

Sheet No.

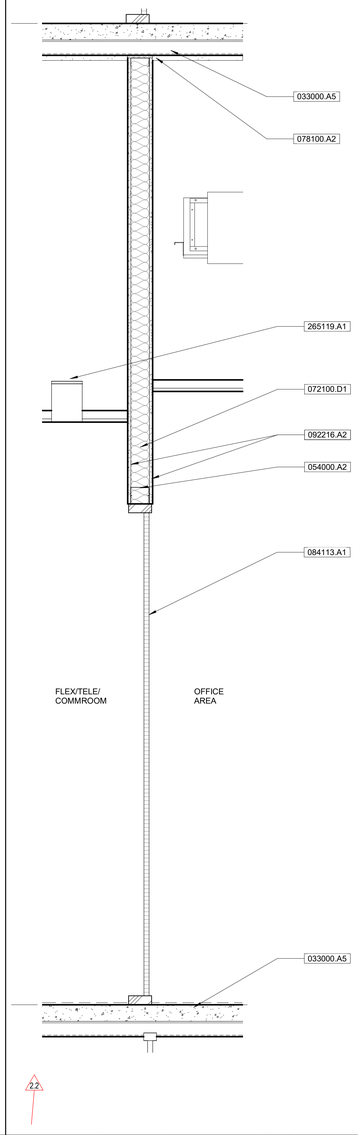
2A-320

1/23/2018 3:46:28 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



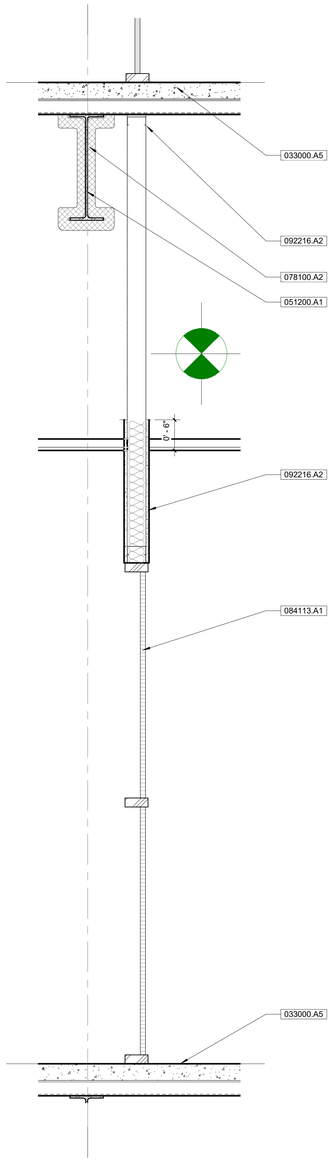
A1 WALL SECTION @ SHIPPING

A1 / 2A-112 | 1" = 1'-0"



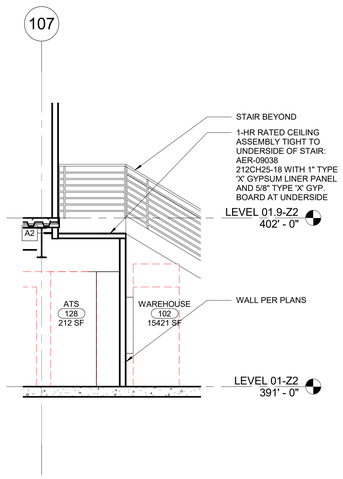
A3 WALL SECTION @ OFFICE STOREFRONT

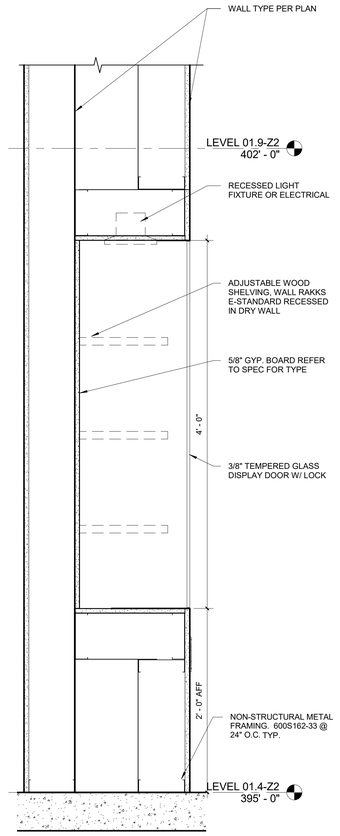
A1 / 2A-123 | 1" = 1'-0"



A4 WALL SECTION @ CORRIDOR STOREFRONT

A1 / 2A-123 | 1" = 1'-0"





A5 INTERIOR WALL SECTION @ GLASS DISPLAY

A1 / 2A-113 | 1 1/2" = 1'-0"

2.6

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
087	REINFORCEMENT AT CMU WALL OPENING PER STRUCTURAL

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>
053100.A3	STEEL DECK AND SHEET METAL WALKABLE SURFACE <SEE STRUCTURAL DRAWINGS>
054000.A2	STEEL STUD
055000.J1	STEEL LADDER
072100.D1	GLASS-FIBER BLANKET INSULATION
078100.A2	SPRAYED FIRE RESISTIVE MATERIAL WITH 2-HOUR FIRE-RESISTANCE RATING
084113.A1	INTERIOR ALUMINUM-FRAMED STOREFRONT SYSTEM, SF-1
092216.A2	NON-STRUCTURAL METAL FRAMING. 362S162-33 @ 24" O.C.
092216.A3	NON-STRUCTURAL METAL FRAMING. 600S162-33 @ 24" O.C.
265119.A1	LED INTERIOR LIGHTING

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

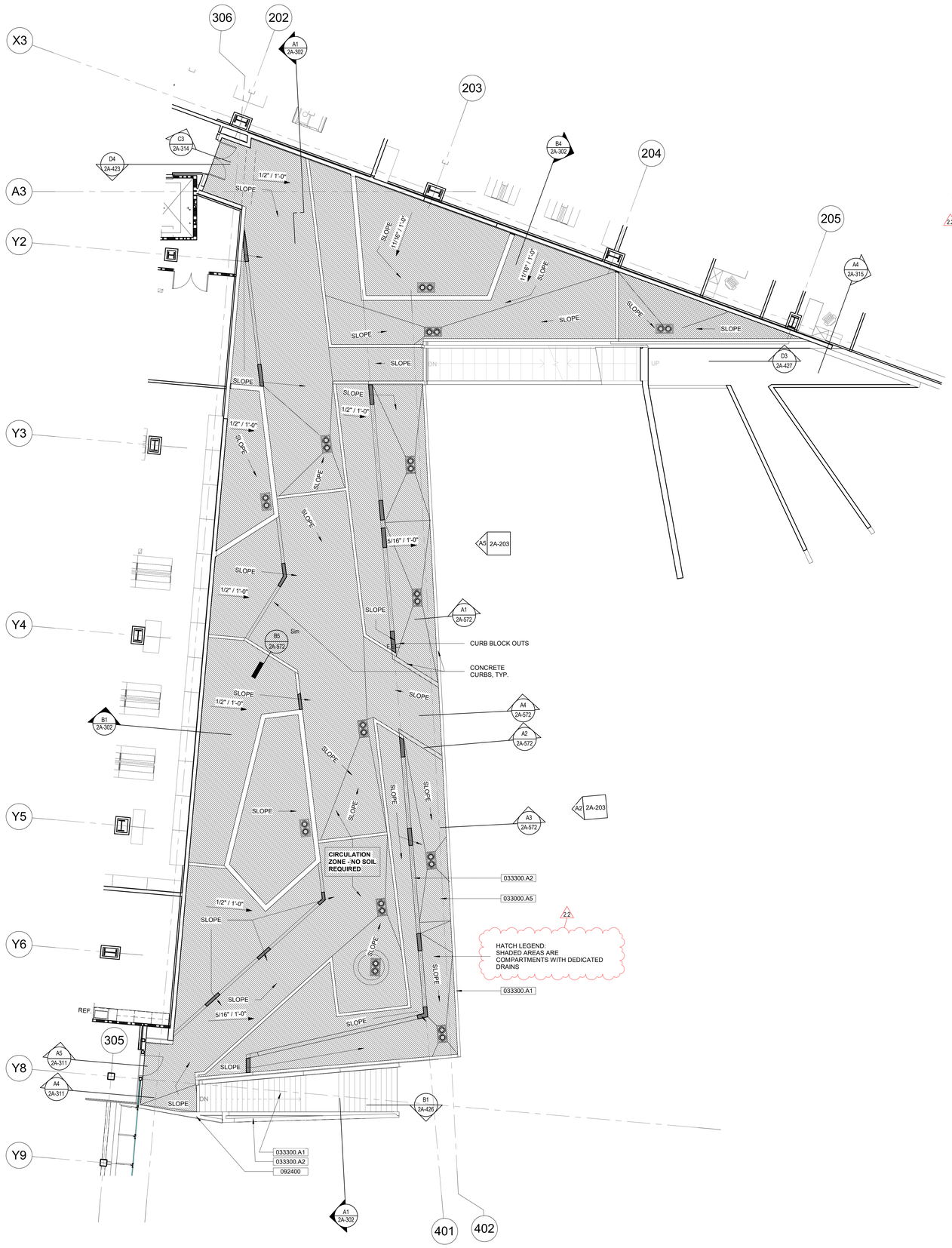
REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
INTERIOR WALL SECTIONS

Sheet No.
2A-321

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002



GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C, U.O.N.
4. SEE SHEET 2A-601 FOR WALL TYPES AND SHEET 2A/511 FOR FRAMING DETAILS.
5. SEE ENLARGED PLANS FOR ADDITIONAL INFO NOT SHOWN HERE.
6. SEE I SHEETS FOR FINISH PLANS, FINISH SCHEDULE AND TOILET ACCESSORIES SCHEDULE. SEE LF SHEETS FOR LAB FURNISHING PLANS.
7. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
8. ALL ELECTRONIC CARD READER SECURITY DOOR LOCKS MUST BE OPERABLE FOR EXITING UNDER ALL CONDITIONS, INCLUDING POWER OUTAGE.
9. ALL NEW INTERIOR DRYWALL TO BE LEVEL 4 FINISH, EXCEPT:
   LEVEL 3 FINISH @ UTILITY ROOMS, ELECTRICAL ROOMS, STOCK ROOMS, AND JANITOR ROOMS.
   LEVEL 5 FINISH ON ALL WALLS THAT RECEIVE DRY ERASE PAINT PER FINISH SCHEDULE, AND WALLS IN ATRIUM LOBBY AND AT ALL BALCONIES.
9. ROOMS CONTAINING CONTROLS FOR AIR-CONDITIONING SYSTEMS, SPRINKLER RISERS, VALVES OR OTHER FIRE DETECTION SUPPRESSION OR CONTROL ELEMENTS AND UTILITY EQUIPMENT SHALL BE IDENTIFIED PER CFC 509.
10. PROVIDE HAZARDOUS MATERIAL SIGNS @ LAB DOORS AND WHERE COMPRESSED AIR TANKS ARE STORED, SEE DETAIL E1 / 2A-581
11. PROVIDE BACKING AT ALL LOCATIONS OF WALL-MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES PER DETAIL E3 / 2A-511
12. ALL APPLIANCES IN BREAKROOMS (SUCH AS REFRIGERATORS, MICROWAVES AND DISHWASHERS) ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
13. ALL COLD ROOMS AND FREEZER ROOMS TO BE C.F.C.I.
14. ALL EXPOSED STRUCTURAL FRAMING IN ATRIUM TO BE COATED WITH 1-HOUR INTUMESCENT PAINT, U.O.N. 2-HOUR AT LOCATIONS INDICATED ON PLANS.
15. ALL WALLS AT WASH ROOMS (AT , SERVERY, AND LEVEL 3 BUFFER ROOM) AND HAZARDOUS WASTE HOLDING ROOMS TO BE SET ON 4" CONC. CURB.
16. REFER TO SHEET A1 / 2G-005 FOR GRID LAYOUTS AND DIMENSIONS
17. REFER TO I SHEETS FOR INTERIOR ELEVATION CALLOUTS.
18. OVERALL BUILDING DIMENSIONS ARE FOR CITY PLANNING PURPOSES, GC TO REFER TO GRIDLINE DIMENSIONS AND EDGE OF DECK DETAILS FOR WALL LOCATIONS.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
033300.A1	ARCHITECTURAL CONCRETE
033300.A2	C.I.P. SITE WALL W/ SMOOTH FINISH, SEE LANDSCAPE
092400	CEMENT PLASTERING

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title

ENLARGED GREEN ROOF SUBSTRUCTURE

Sheet No.

2A-402

A1 | **LEVEL 02 - ENLARGED GREEN ROOF SUBSTRUCTURE**

A1 / 2A-121 | 1/8" = 1'-0"

10/2/2017 3:37:49 PM
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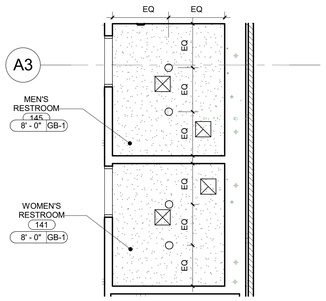
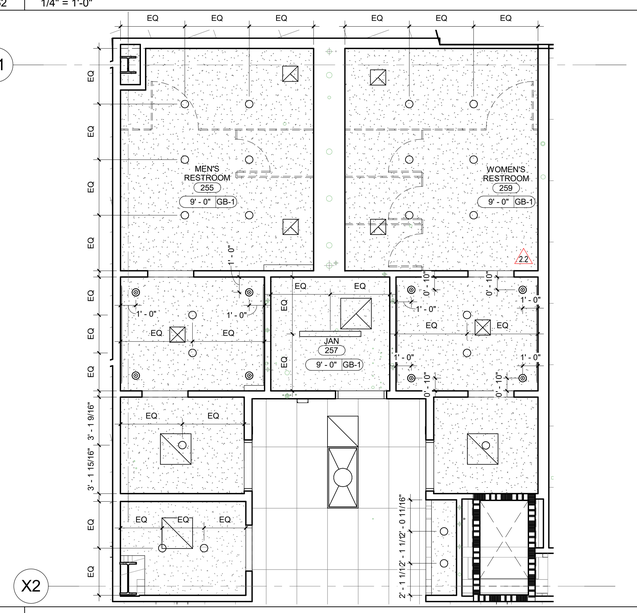
DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



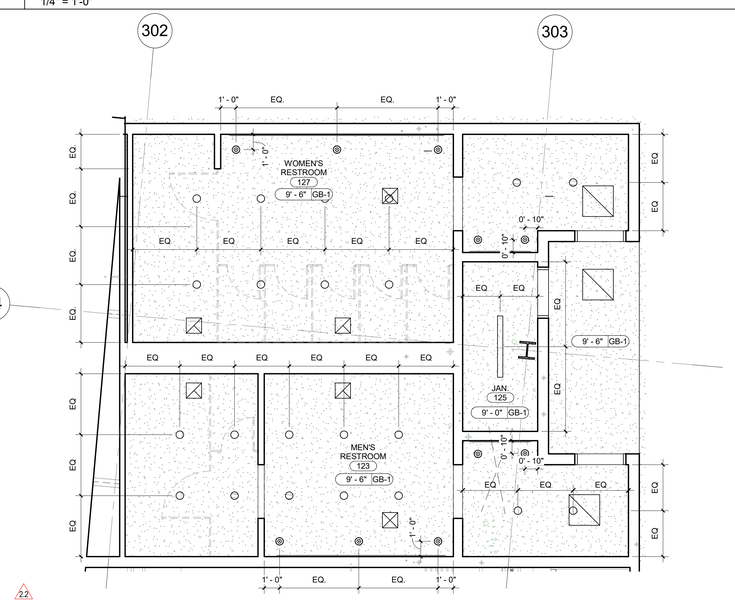
E1 RESTROOMS 141 AND 145 ENLARGED RCP

B1 / 2A-162 | 1/4" = 1'-0"



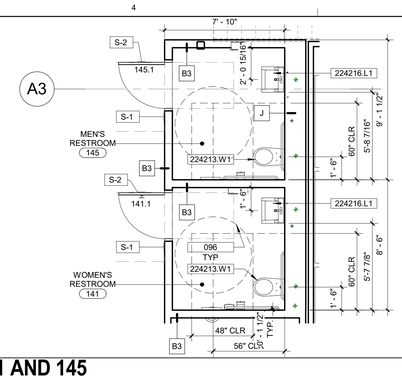
C1 TYPICAL LAB RESTROOM ENLARGED RCPS

1/4" = 1'-0"



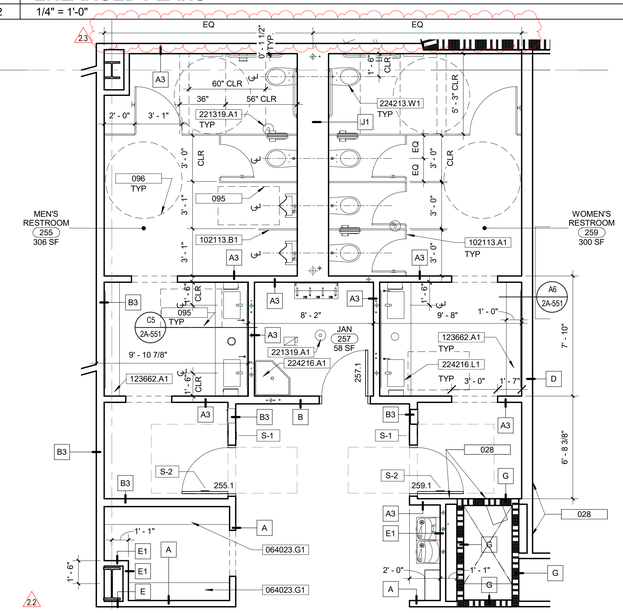
A1 LOBBY RESTROOMS 123 AND 127 ENLARGED RCP

B1 / 2A-162 | 1/4" = 1'-0"



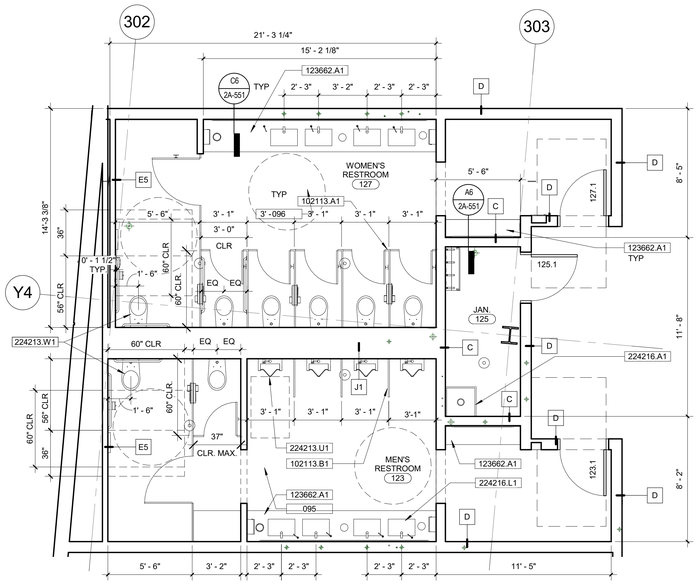
E3 RESTROOMS 141 AND 145 ENLARGED PLANS

A1 / 2A-112 | 1/4" = 1'-0"



C3 TYPICAL LAB ENLARGED RESTROOM PLANS

B1 / 2A-122 | 1/4" = 1'-0"



A3 LOBBY RESTROOMS 123 AND 127 ENLARGED PLAN

A1 / 2A-113 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. DIMENSIONS ARE TO FACE OF SHEATHING, U.O.N.
3. ALL WALLS ARE TYPE C1, U.O.N.
4. SEE SHEET 2A-601 FOR WALL TYPES.
5. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
6. ALL NEW INTERIOR DRYWALL TO BE LEVEL 4 FINISH, EXCEPT: LEVEL 3 FINISH @ UTILITY ROOMS, ELECTRICAL ROOMS, STOCK ROOMS, AND JANITOR ROOMS. LEVEL 5 FINISH ON ALL WALLS THAT RECEIVE DRY ERASE PAINT PER FINISH SCHEDULE, AND WALLS IN ATRIUM LOBBY AND AT ALL BALCONIES.
9. ROOMS CONTAINING CONTROLS FOR AIR-CONDITIONING SYSTEMS, SPRINKLER RISERS, VALVES OR OTHER FIRE DETECTION SUPPRESSION OR CONTROL ELEMENTS AND UTILITY EQUIPMENT SHALL BE IDENTIFIED PER CFC 509.
12. PROVIDE BACKING AT ALL LOCATIONS OF WALL-MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES PER DETAIL E3 / 2A-511
13. ALL APPLIANCES IN BREAKROOMS (SUCH AS REFRIGERATORS, MICROWAVES AND DISHWASHERS) ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.
14. REFER TO INTERIOR DRAWINGS FOR ALL TOILET ACCESSORIES AND FINISHES
15. REFER TO DETAIL A1 / 2A-578 FOR FIXTURE AND ACCESSORY MOUNTING HEIGHTS
16. FLUSH CONTROLS SHALL BE LOCATED 44 INCHES MAXIMUM ABOVE THE FLOOR ON THE OPEN SIDE OF THE WHEELCHAIR ACCESSIBLE WATER CLOSET. CBC, SEC. 11B-604.6.
17. FOR THE ACCESSIBLE URINAL, HAND OPERATED FLUSH CONTROL SHALL BE MOUNTED AT A MAXIMUM HEIGHT OF 44 INCHES ABOVE FINISH FLOOR. (CBC, SEC. 11B-605.4.
18. FAUCET CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. (CBC, SECS. 11B-606.4, 11B-309.4)

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
064023.G1	BRUSHED ALUMINUM COAT ROD AND WOOD SHELVING ABOVE
102113.A1	SOLID PHENOLIC TOILET COMPARTMENT. SEE FINISH LEGEND
102113.B1	SOLID PHENOLIC URINAL SCREEN. SEE FINISH LEGEND
123662.A1	QUARTZ AGGLOMERATE COUNTERTOP. SEE FINISH LEGEND
221319.A1	NEW FLOOR DRAIN, SEE PLUMBING. SLOPE FLOOR TO DRAIN.
224213.U1	URINAL
224213.W1	WATER CLOSET
224216.A1	MOP SINK
224216.L1	LAVATORY

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
028	FACE OF WALLS TO ALIGN
095	30"x48" CLEAR FLOOR SPACE AT ACCESSIBLE FIXTURE
096	60" DIAMETER TURNING SPACE

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582
S-14	ASSISTED LISTENING DEVICE SIGN	SEE DETAIL D6/2A-581
S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

LEGEND - FLOOR PLAN

- NEW WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- COLD ROOM WALL BY OTHERS
- MATCH LINE
- FEC — FIRE EXTINGUISHER CABINET PER DETAIL E6 / 2A-577

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

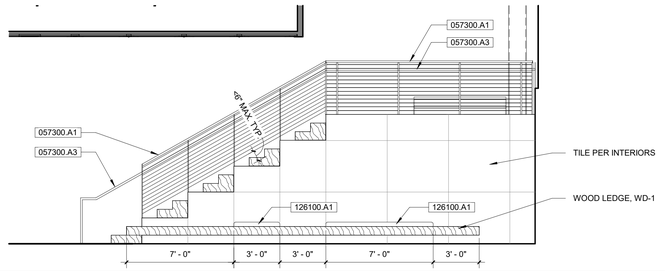
Sheet Title
ENLARGED DRAWINGS - RESTROOMS

Sheet No.
2A-410

11/17/2017 1:12:44 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

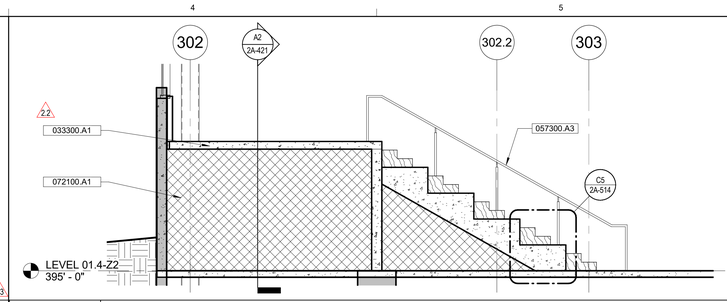
DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

1/23/2018 8:50:50 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



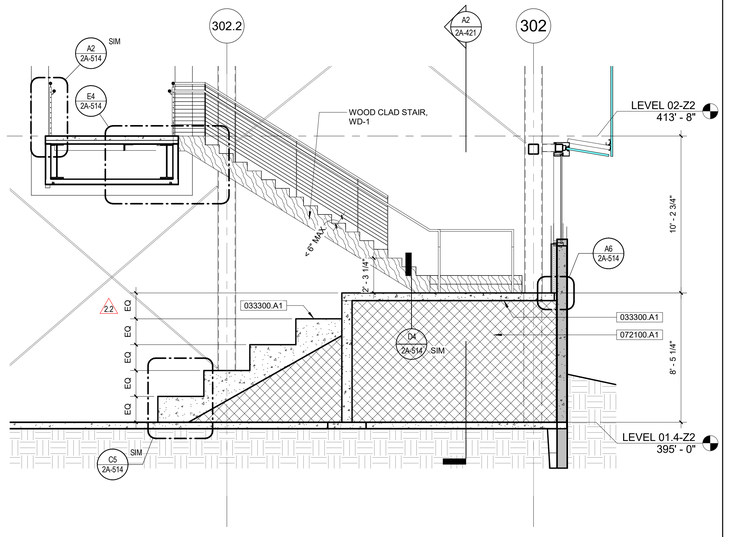
E2 STAIR #1 - SIDE ELEVATION AT LOWER FLIGHT

A4 / 2A-421 | 1/4" = 1'-0"



E4 STAIR #1 - SECTION AT LOWER FLIGHT

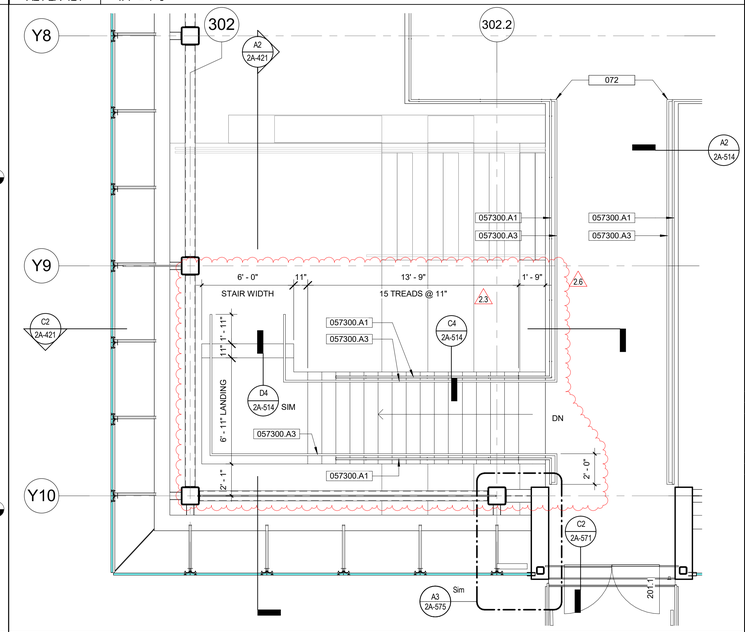
A2 / 2A-421 | 1/4" = 1'-0"



C2 STAIR #1 - SECTION

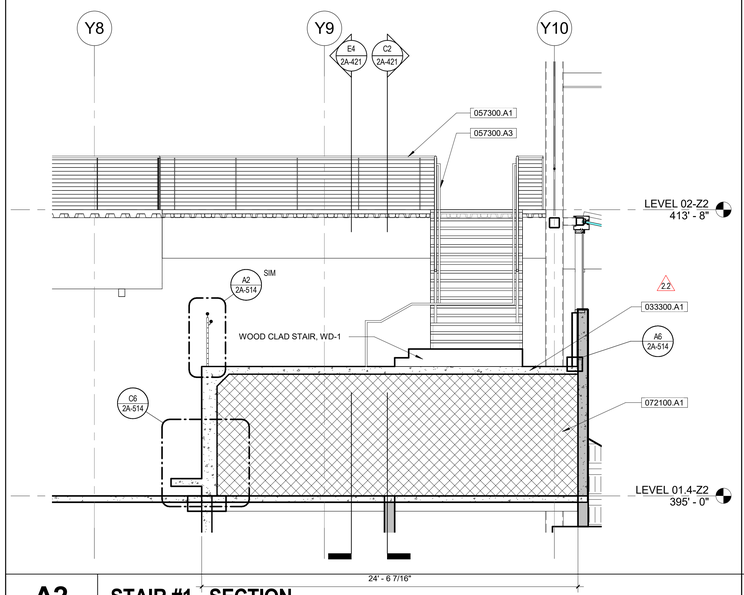
RFI 2-00111 Slab Elevation at Stair 1

A2 / 2A-421 | 1/4" = 1'-0"



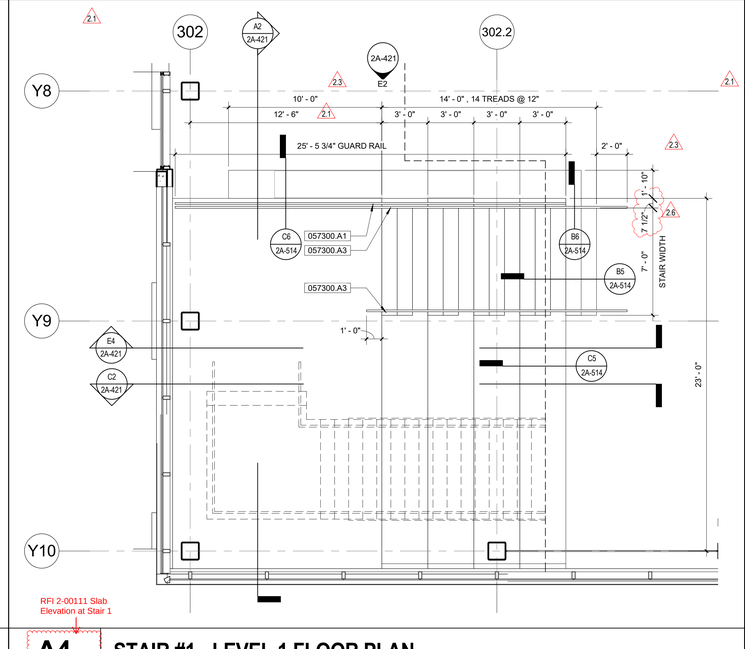
C4 STAIR #1 - LEVEL 2 FLOOR PLAN

A1 / 2A-123 | 1/4" = 1'-0"



A2 STAIR #1 - SECTION

A4 / 2A-421 | 1/4" = 1'-0"



A4 STAIR #1 - LEVEL 1 FLOOR PLAN

A1 / 2A-113 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONCRETE FILLED METAL PAN STAIRS. ALL STEEL TO BE PAINTED.

2. ALL WELDS TO BE FINISHED TO NOMMA FINISH #2 FOR TUBES.

3. PROVIDE PHOTOLUMINESCENT STAIRWAY MARKING SYSTEM AS REQUIRED PER CBC CHAPTER 10.

4. INTERIOR STAIR TREADS ARE MARKED AT THE UPPER APPROACH AND THE LOWER TREAD OF EACH STAIR, BY A STRIP OF CLEARLY CONTRASTING COLOR, PER SECTION 11B-504.4.1, AS FOLLOWS:
   a) AT LEAST 2" WIDE (BUT NOT MORE THAN 4" WIDE).
   b) PLACED PARALLEL TO AND NOT MORE THAN 1" FROMTHE NOSE OF THE STEP OR LANDING.
   c) THE STRIP SHALL BE AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

5. ALL TREAD SURFACES COMPLY WITH SECTION 11B-504.3 AND 11B-504.5, AS FOLLOWS:
   a) OPEN RISERS ARE NOT PERMITTED.
   b) STAIR TREADS SHALL BE NO LESS THAN 11" DEEP, MEASURED FROM RISER TO RISER.
   c) STAIR TREADS SHALLBE SLIP RESISTANT; HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES.
   d) STAIR TREADS SHALL HAVE NO ABRUPT EDGES AT THE NOSING.
   e) NOSING SHALL NOT PROJECT ≥ 1½" PAST THE FACE OF THE RISER ABOVE.

6. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT THE ELEVATOR LANDINGS ON EACH ACCESSIBLE FLOOR. SECTION 1007.8. THIS APPLIES WHETHER OR NOT THE BUILDING HAS AN AUTOMATIC FIRE SPRINKLER SYSTEM.

7. AN ELEVATOR CAPABLE OF ACCOMMODATING AN AMBULANCE STRETCHER OR GURNEY IS REQUIRED. AND SHALL BE IDENTIFIED WITHE THE INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES (STAR OF LIFE) SIGNAGE COMPLYING WITH SECTION 3002.4 OF HTE CALIFORNIA BUILDING CODE. SEE SIGNAGE DETAIL B4 / 2A-581

8. IN BUILDINGS REQUIRED TO HAVE STANDPIPES, NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. STANDPIPES SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION."

9. ALL STAIRWELL WALLS TO BE SMOKEPROOF.

10. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.

11. STAIR FINISH: ALL EXPOSED STEEL SHALL BE PAINTED.

12. ALL EXPOSED WELDS SHALL BE FINISHED TO NAMMA FINISH #2 FOR TUBES

14. STAIR NOSING WARNING STRIP:
   A. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   B. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   C. CONTRASTING STRIPE SHALL BE MIN. 2" WIDE, MAX. 4" WIDE PLACED PARALLEL TO AND NOT MORE THAN 1" AWAY FROM THE NOSE OF THE STEP OR UPPER APPROACH.

15. SEE ELEVATOR DETAILS ON SHEET 2A-513

16. SEE I SHEETS FOR FINISHES AND FINISH SCHEDULE.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033300.A1	ARCHITECTURAL CONCRETE
057300.A1	STAINLESS STEEL CABLE GUARD RAIL
057300.A3	STAINLESS STEEL HAND RAIL WITH INTEGRAL LIGHTING, SEE LIGHTING AND ELECTRICAL DRAWINGS. BRACKET MOUNTED TO GUARD RAIL POSTS, WHERE OCCUR. INTERMEDIATE HAND RAIL POSTS AND CONTINUOUS END POSTS PER ELEVATIONS.
072100.A1	EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION (XPS) <I-1>
126100.A1	3.5" THICK, FIXED UPHOLSTERED SEAT CUSHION, PER INTERIOR DRAWINGS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
072	END OF HAND RAIL WITH INTEGRAL LIGHTING, NOT TO EXTEND PAST ADJACENT GUARDRAIL.

GENE THEORY -
CP-2
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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title

ENLARGED DRAWINGS- STAIR #1

Sheet No.

2A-421

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

8/8/2017 10:39:35 AM
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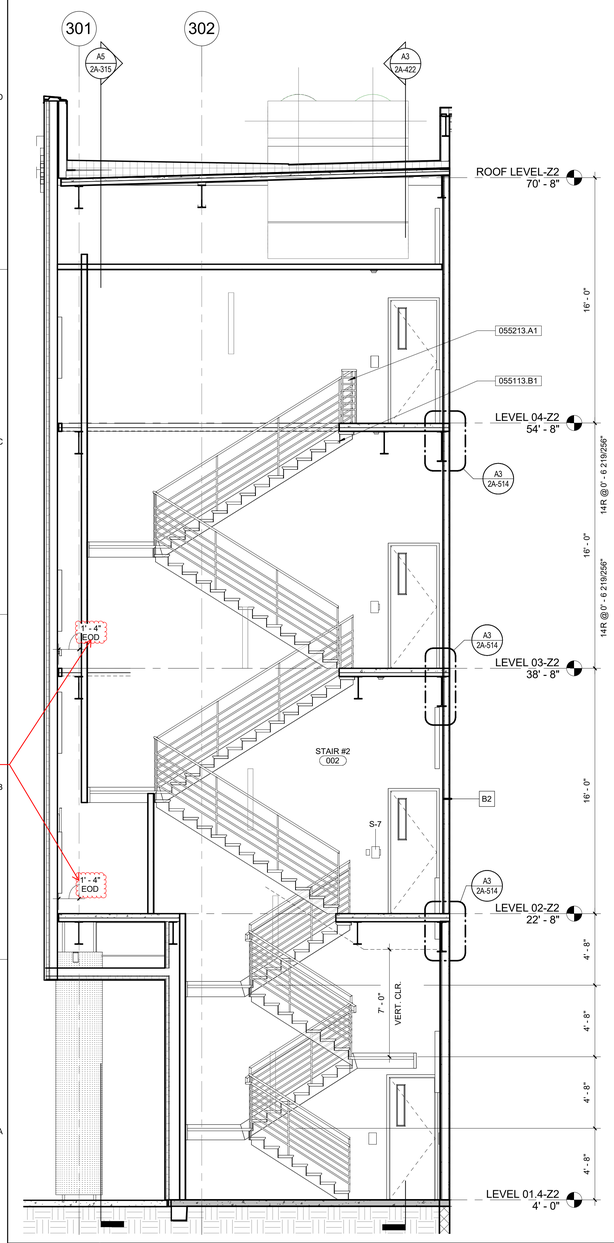
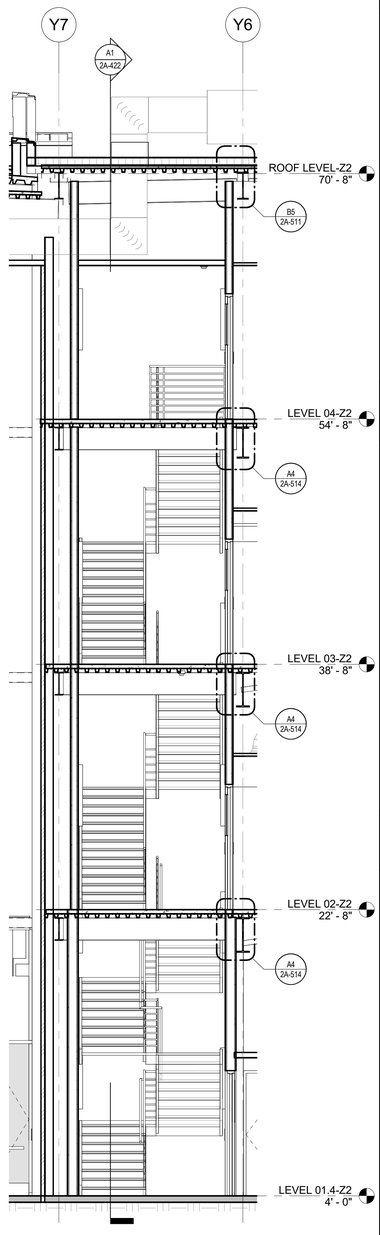


RFI 2-00021 - Schuff Steel
RFIs 54 Through 62

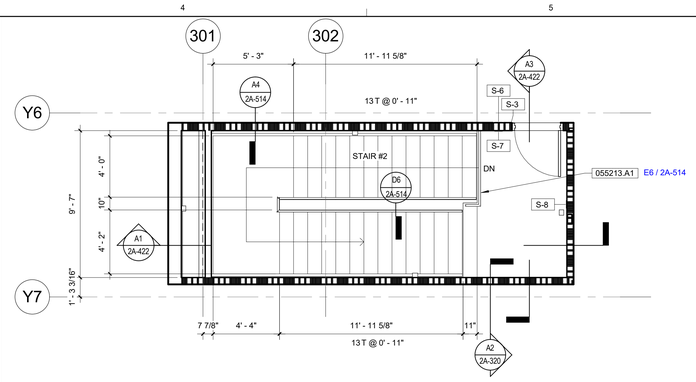
A1 STAIR #2 - SECTION 1

A5 / 2A-315 | 1/4" = 1'-0"



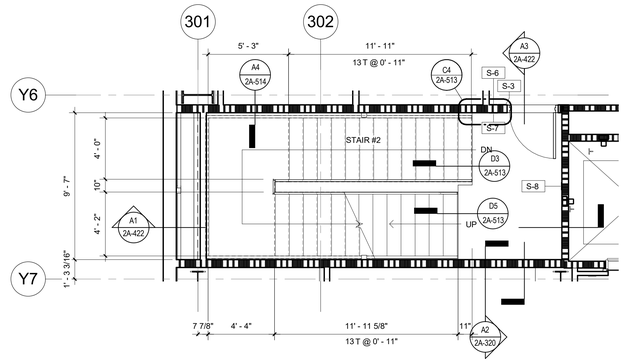
A3 STAIR #2 - SECTION 2

A1 / 2A-422 | 1/4" = 1'-0"



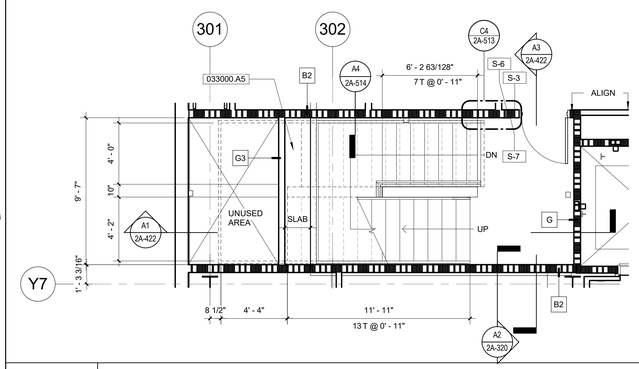
D4 STAIR #2 - LEVEL 4 PLAN

A1 / 2A-143 | 1/4" = 1'-0"



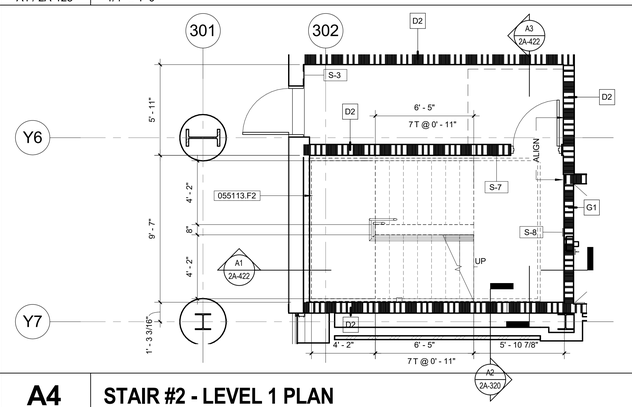
C4 STAIR #2 - LEVEL 3 PLAN

A1 / 2A-133 | 1/4" = 1'-0"



B4 STAIR #2 - LEVEL 2 PLAN

A1 / 2A-123 | 1/4" = 1'-0"



A4 STAIR #2 - LEVEL 1 PLAN

A1 / 2A-113 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONCRETE FILLED METAL PAN STAIRS. ALL STEEL TO BE PAINTED.

2. ALL WELDS TO BE FINISHED TO NOMMA FINISH #2 FOR TUBES.

3. PROVIDE PHOTOLUMINESCENT STAIRWAY MARKING SYSTEM AS REQUIRED PER CBC CHAPTER 10.

4. INTERIOR STAIR TREADS ARE MARKED AT THE UPPER APPROACH AND THE LOWER TREAD OF EACH STAIR, BY A STRIP OF CLEARLY CONTRASTING COLOR, PER SECTION 11B-504.4.1, AS FOLLOWS:
   a) AT LEAST 2" WIDE (BUT NOT MORE THAN 4" WIDE).
   b) PLACED PARALLEL TO AND NOT MORE THAN 1" FROMTHE NOSE OF THE STEP OR LANDING.
   c) THE STRIP SHALL BE AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

5. ALL TREAD SURFACES COMPLY WITH SECTION 11B-504.3 AND 11B-504.5, AS FOLLOWS:
   a) OPEN RISERS ARE NOT PERMITTED.
   b) STAIR TREADS SHALL BE NO LESS THAN 11" DEEP, MEASURED FROM RISER TO RISER.
   c) STAIR TREADS SHALLBE SLIP RESISTANT; HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES.
   d) STAIR TREADS SHALL HAVE NO ABRUPT EDGES AT THE NOSING.
   e) NOSING SHALL NOT PROJECT ≥ 1½" PAST THE FACE OF THE RISER ABOVE.

6. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT THE ELEVATOR LANDINGS ON EACH ACCESSIBLE FLOOR. SECTION 1007.8. THIS APPLIES WHETHER OR NOT THE BUILDING HAS AN AUTOMATIC FIRE SPRINKLER SYSTEM.

7. AT LEAST ONE GURNEY-SIZED ELEVATOR SHALL BE PROVIDED. THE ELEVATOR CAR SHALL BE OF SUCH A SIZE AND ARRANGEMENT TO ACCOMMODATE A 24" X 84" AMBULANCE GURNEY OR STRETCHER IN THE HORIZONTAL, OPEN POSITION.

8. IN BUILDINGS REQUIRED TO HAVE STANDPIPES, NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. STANDPIPES SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION."

9. ALL STAIRWELL WALLS TO BE SMOKEPROOF.

10. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.

11. STAIR FINISH: ALL EXPOSED STEEL SHALL BE PAINTED.

12. ALL EXPOSED WELDS SHALL BE FINISHED TO NAMMA FINISH #2 FOR TUBES

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   B. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   C. CONTRASTING STRIPE SHALL BE MIN. 2" WIDE, MAX. 4" WIDE PLACED PARALLEL TO AND NOT MORE THAN 1" AWAY FROM THE NOSE OF THE STEP OR UPPER APPROACH.

15. SEE ELEVATOR DETAILS ON SHEET 2A-513

16. SEE I SHEETS FOR FINISHES AND FINISH SCHEDULE.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
055113.B1	PREASSEMBLED STEEL STAIRS WITH CONCRETE-FILLED TREADS
055113.F2	STEEL TUBE HANDRAILS ATTACHED TO WALLS ADJACENT TO METAL STAIRS.
055213.A1	TUBE RAILING SYSTEM

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
ENLARGED DRAWINGS-
STAIR #2

Sheet No.
2A-422

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

1/23/2018 5:48:55 PM
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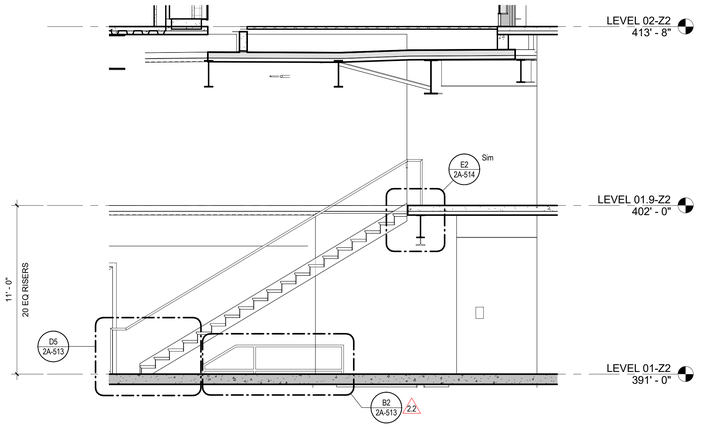
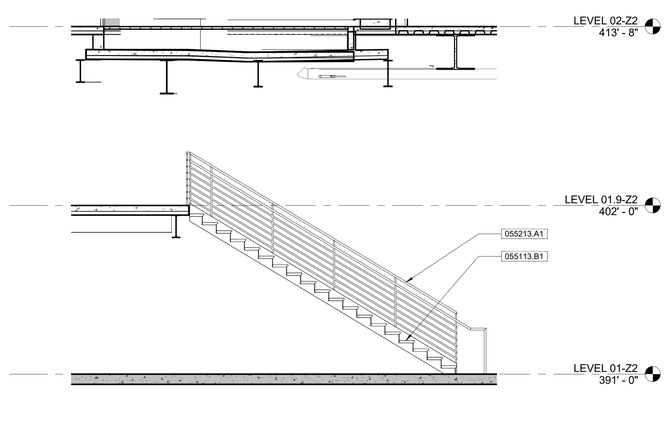


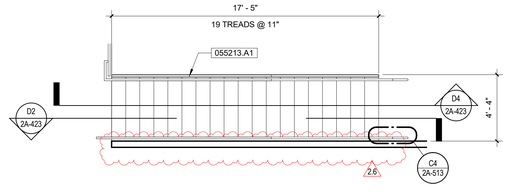
D2 STAIR #6A- SECTION 1

A1 / 2A-402 | 1/4" = 1'-0"



D4 STAIR #6A - SECTION 2

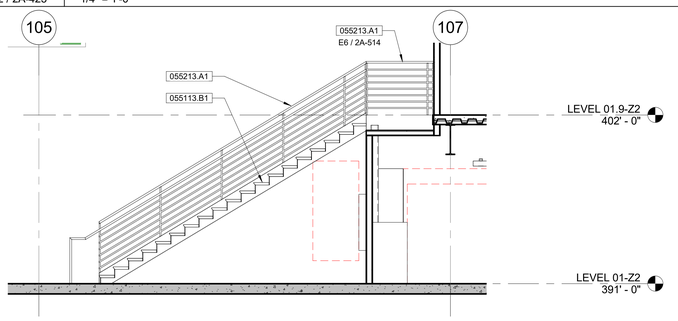
C2 / 2A-423 | 1/4" = 1'-0"



RFI 2-00014 Clarification to Steel Dimensions

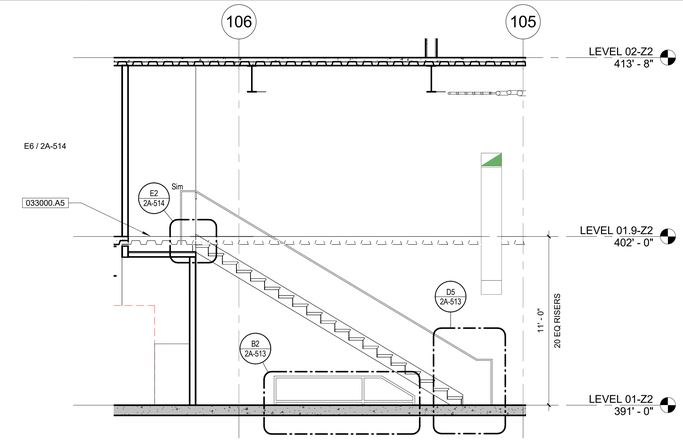
C2 STAIR #6A - FLOOR PLAN

A1 / 2A-112 | 1/4" = 1'-0"



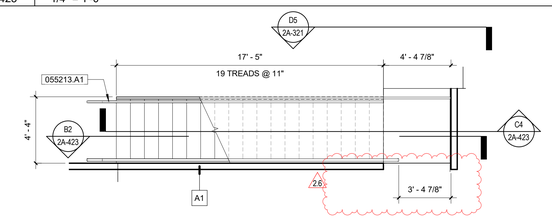
C4 STAIR #6B - SECTION 2

A2 / 2A-423 | 1/4" = 1'-0"



B2 STAIR #6B- SECTION 1

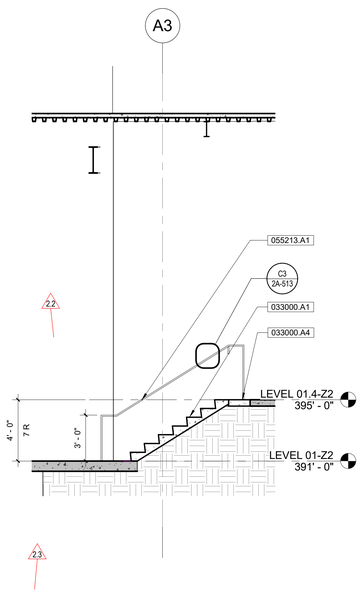
A2 / 2A-423 | 1/4" = 1'-0"



RFI 2-00014 Clarification to Steel Dimensions

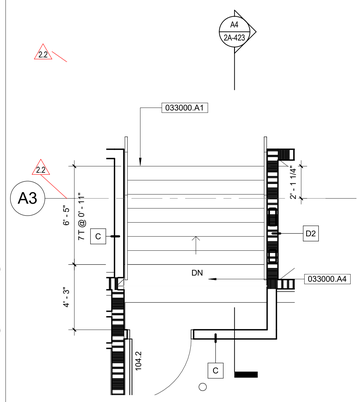
A2 STAIR #6B -FLOOR PLAN

A1 / 2A-112 | 1/4" = 1'-0"



A4 STAIR #3 - SECTION 2

A5 / 2A-423 | 1/4" = 1'-0"



A5 STAIR# 3 - FLOOR PLAN

A1 / 2A-112 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONCRETE FILLED METAL PAN STAIRS. ALL STEEL TO BE PAINTED.

2. ALL WELDS TO BE FINISHED TO NOMMA FINISH #2 FOR TUBES.

3. PROVIDE PHOTOLUMINESCENT STAIRWAY MARKING SYSTEM AS REQUIRED PER CBC CHAPTER 10.

4. INTERIOR STAIR TREADS ARE MARKED AT THE UPPER APPROACH AND THE LOWER TREAD OF EACH STAIR, BY A STRIP OF CLEARLY CONTRASTING COLOR, PER SECTION 11B-504.4.1, AS FOLLOWS:
   a) AT LEAST 2" WIDE (BUT NOT MORE THAN 4" WIDE).
   b) PLACED PARALLEL TO AND NOT MORE THAN 1" FROMTHE NOSE OF THE STEP OR LANDING.
   c) THE STRIP SHALL BE AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

5. ALL TREAD SURFACES COMPLY WITH SECTION 11B-504.3 AND 11B-504.5, AS FOLLOWS:
   a) OPEN RISERS ARE NOT PERMITTED.
   b) STAIR TREADS SHALL BE NO LESS THAN 11" DEEP, MEASURED FROM RISER TO RISER.
   c) STAIR TREADS SHALLBE SLIP RESISTANT; HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES.
   d) STAIR TREADS SHALL HAVE NO ABRUPT EDGES AT THE NOSING.
   e) NOSING SHALL NOT PROJECT ≥ 1½" PAST THE FACE OF THE RISER ABOVE.

6. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT THE ELEVATOR LANDINGS ON EACH ACCESSIBLE FLOOR. SECTION 1007.8. THIS APPLIES WHETHER OR NOT THE BUILDING HAS AN AUTOMATIC FIRE SPRINKLER SYSTEM.

7. AN ELEVATOR CAPABLE OF ACCOMMODATING AN AMBULANCE STRETCHER OR GURNEY IS REQUIRED AND SHALL BE IDENTIFIED WITHE THE INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES (STAR OF LIFE) SIGNAGE COMPLYING WITH SECTION 3002.4 OF HTE CALIFORNIA BUILDING CODE. SEE SIGNAGE DETAIL B4 / 2A-581

8. IN BUILDINGS REQUIRED TO HAVE STANDPIPES, NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. STANDPIPES SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION."

9. ALL STAIRWELL WALLS TO BE SMOKEPROOF.

10. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.

11. STAIR FINISH: ALL EXPOSED STEEL SHALL BE PAINTED.

12. ALL EXPOSED WELDS SHALL BE FINISHED TO NAMMA FINISH #2 FOR TUBES

14. STAIR NOSING WARNING STRIP:
   A. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   B. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   C. CONTRASTING STRIPE SHALL BE MIN. 2" WIDE, MAX. 4" WIDE PLACED PARALLEL TO AND NOT MORE THAN 1" AWAY FROM THE NOSE OF THE STEP OR UPPER APPROACH.

15. SEE ELEVATOR DETAILS ON SHEET 2A-513

16. SEE I SHEETS FOR FINISHES AND FINISH SCHEDULE.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033000.A4	CAST-IN-PLACE CONCRETE SLAB-ON-GRADE
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
055113.B1	PREASSEMBLED STEEL STAIRS WITH CONCRETE-FILLED TREADS <DEFERRED APPROVAL>
055213.A1	TUBE RAILING SYSTEM

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
ENLARGED DRAWINGS- STAIR #3 AND STAIR #6A & B

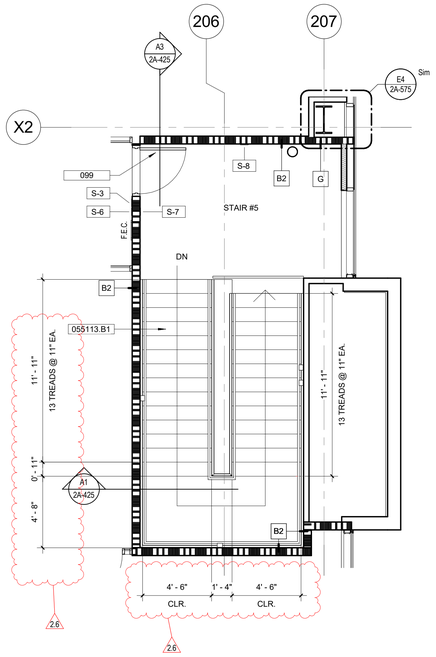
Sheet No.
2A-423

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

1/23/2018 8:53:23 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

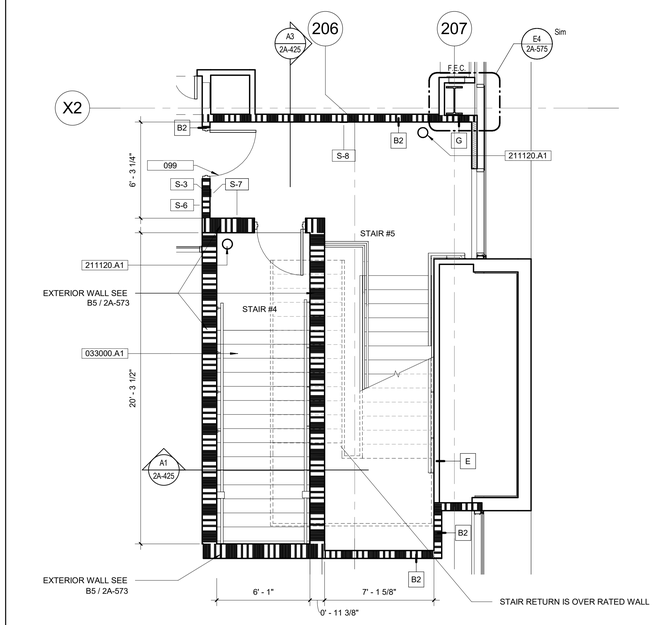
2.3

A1 STAIR #4 -3D VIEW



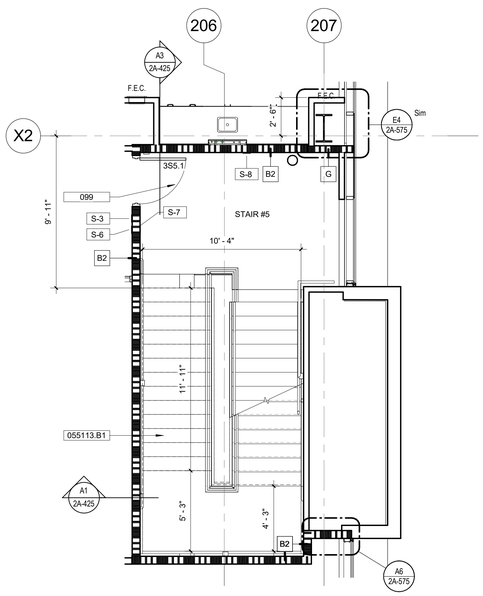
C2 STAIR #5- LEVEL 4 FLOOR PLAN

B1 / 2A-142 | 1/4" = 1'-0"



C4 STAIR #5- LEVEL 2 FLOOR PLAN

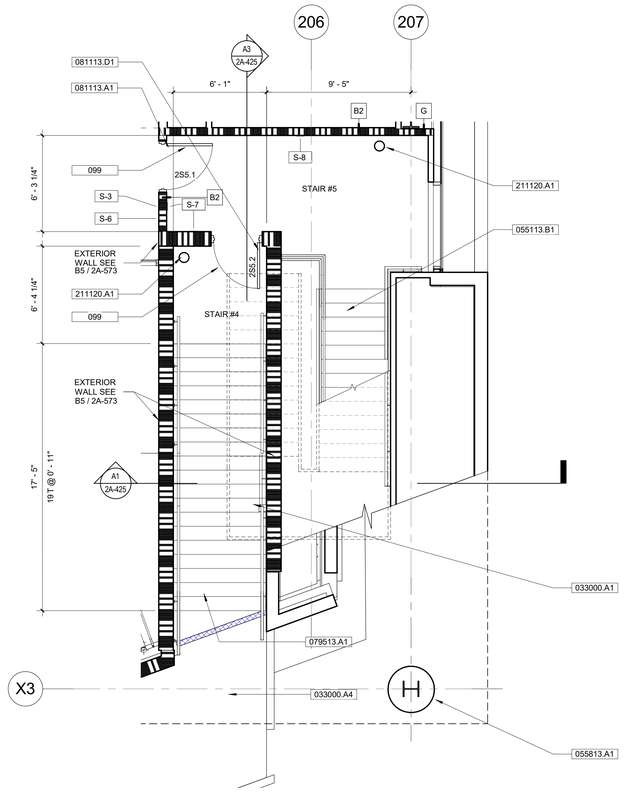
B1 / 2A-122 | 1/4" = 1'-0"



RFI 2-00014 Clarification to Steel Dimensions

A2 STAIR #5 LEVEL 3 FLOOR PLAN

B1 / 2A-132 | 1/4" = 1'-0"



A4 STAIR #4- LEVEL 1 FLOOR PLAN

A1 / 2A-112 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONCRETE FILLED METAL PAN STAIRS. ALL STEEL TO BE PAINTED.

2. ALL WELDS TO BE FINISHED TO NOMMA FINISH #2 FOR TUBES.

3. PROVIDE PHOTOLUMINESCENT STAIRWAY MARKING SYSTEM AS REQUIRED PER CBC CHAPTER 10.

4. INTERIOR STAIR TREADS ARE MARKED AT THE UPPER APPROACH AND THE LOWER TREAD OF EACH STAIR, BY A STRIP OF CLEARLY CONTRASTING COLOR, PER SECTION 11B-504.4.1, AS FOLLOWS:
   a) AT LEAST 2" WIDE (BUT NOT MORE THAN 4" WIDE).
   b) PLACED PARALLEL TO AND NOT MORE THAN 1" FROMTHE NOSE OF THE STEP OR LANDING.
   c) THE STRIP SHALL BE AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

5. ALL TREAD SURFACES COMPLY WITH SECTION 11B-504.3 AND 11B-504.5, AS FOLLOWS:
   a) OPEN RISERS ARE NOT PERMITTED.
   b) STAIR TREADS SHALL BE NO LESS THAN 11" DEEP, MEASURED FROM RISER TO RISER.
   c) STAIR TREADS SHALLBE SLIP RESISTANT; HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES.
   d) STAIR TREADS SHALL HAVE NO ABRUPT EDGES AT THE NOSING.
   e) NOSING SHALL NOT PROJECT ≥ 1½" PAST THE FACE OF THE RISER ABOVE.

6. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT THE ELEVATOR LANDINGS ON EACH ACCESSIBLE FLOOR. SECTION 1007.8. THIS APPLIES WHETHER OR NOT THE BUILDING HAS AN AUTOMATIC FIRE SPRINKLER SYSTEM.

7. AN ELEVATOR CAPABLE OF ACCOMMODATING AN AMBULANCE STRETCHER OR GURNEY IS REQUIRED AND SHALL BE IDENTIFIED WITHE THE INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES (STAR OF LIFE) SIGNAGE COMPLYING WITH SECTION 3002.4 OF HTE CALIFORNIA BUILDING CODE. SEE SIGNAGE DETAIL B4 / 2A-581

8. IN BUILDINGS REQUIRED TO HAVE STANDPIPES, NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. STANDPIPES SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION."

9. ALL STAIRWELL WALLS TO BE SMOKEPROOF.

10. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.

11. STAIR FINISH: ALL EXPOSED STEEL SHALL BE PAINTED.

12. ALL EXPOSED WELDS SHALL BE FINISHED TO NAMMA FINISH #2 FOR TUBES

14. STAIR NOSING WARNING STRIP:
   A. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   B. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   C. CONTRASTING STRIPE SHALL BE MIN. 2" WIDE, MAX. 4" WIDE PLACED PARALLEL TO AND NOT MORE THAN 1" AWAY FROM THE NOSE OF THE STEP OR UPPER APPROACH.

15. SEE ELEVATOR DETAILS ON SHEET 2A-513

16. SEE I SHEETS FOR FINISHES AND FINISH SCHEDULE.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033000.A4	CAST-IN-PLACE CONCRETE SLAB-ON-GRADE
055113.B1	PREASSEMBLED STEEL STAIRS WITH CONCRETE-FILLED TREADS <DEFERRED APPROVAL>
055813.A1	ALUMINUM COLUMN COVERS
079513.A1	EXTERIOR METAL PLATE JOINT COVER ASSEMBLY
081113.A1	INTERIOR HOLLOW METAL DOOR. SEE DOOR SCHEDULE
081113.D1	EXTERIOR INSULATED HOLLOW METAL DOOR. SEE DOOR SCHEDULE
211120.A1	FIRE-SUPPRESSION STANDPIPE

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
099	CARD READERS TO BE CONNECTED TO THE FIRE ALARM SYSTEM AND DEACTIVE IN EVENT OF EMERGENCIES

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582
S-14	ASSISTED LISTENING DEVICE SIGN	SEE DETAIL D6/2A-581
S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
ENLARGED DRAWINGS- STAIR #4 & #5

Sheet No.
2A-424

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

1/23/2018 8:53:35 AM
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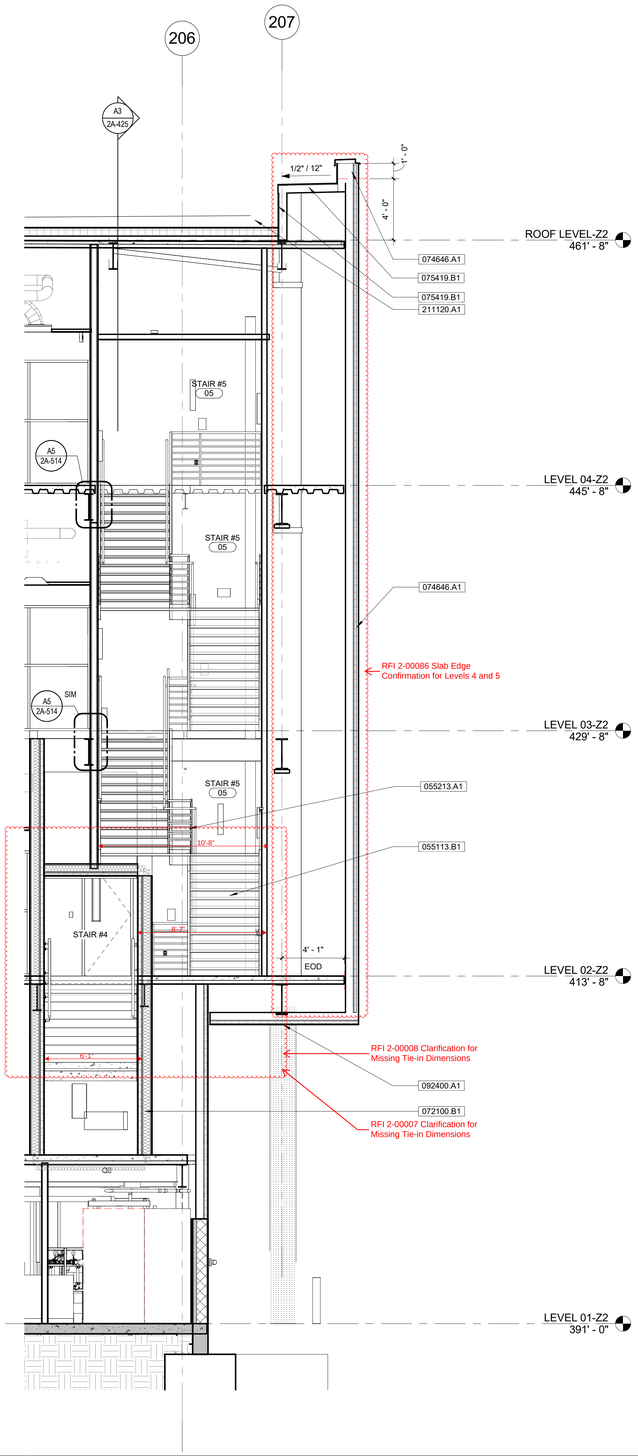

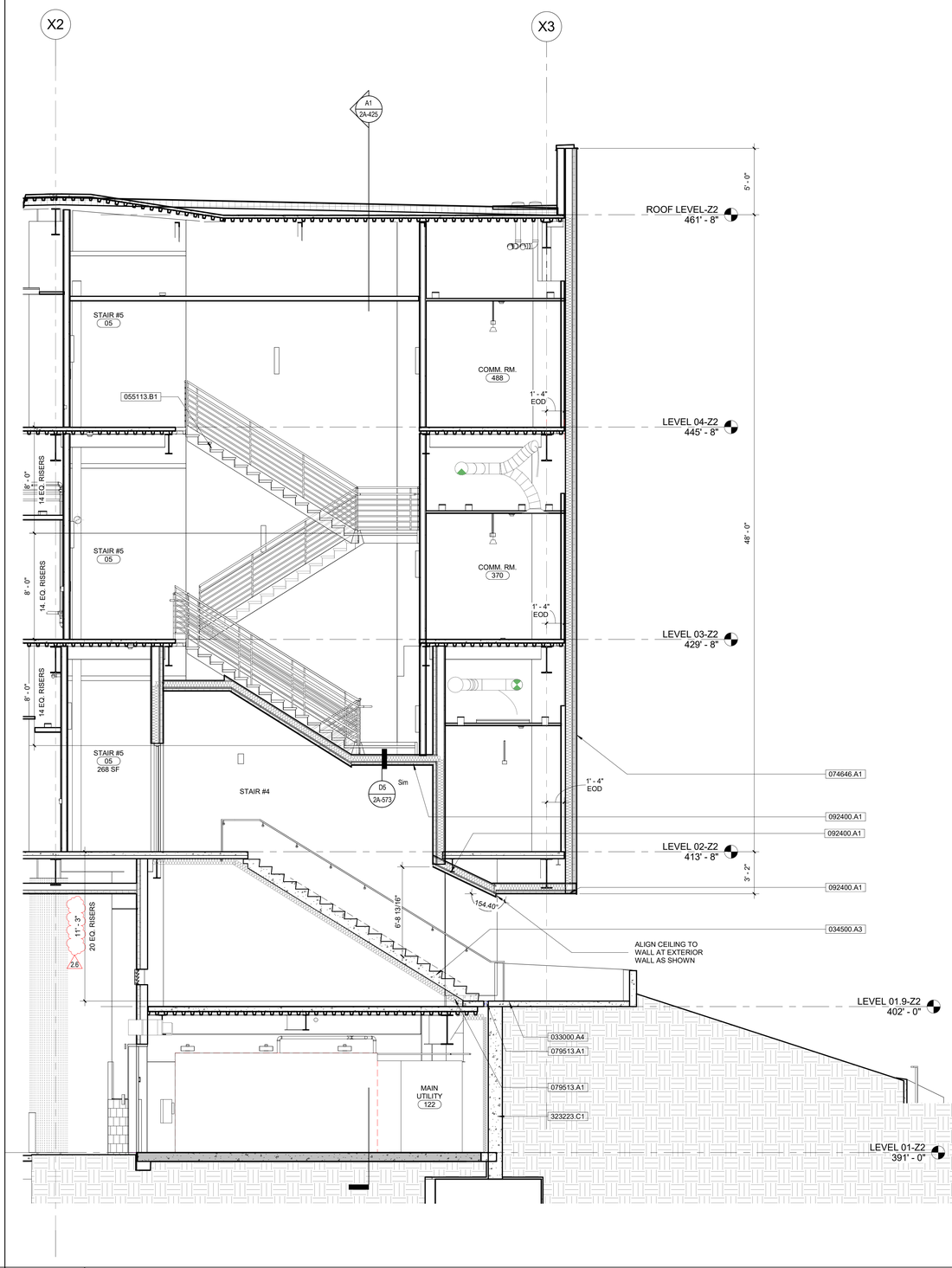

GENERAL SHEET NOTES

1. CONCRETE FILLED METAL PAN STAIRS. ALL STEEL TO BE PAINTED.

2. ALL WELDS TO BE FINISHED TO NOMMA FINISH #2 FOR TUBES.

3. PROVIDE PHOTOLUMINESCENT STAIRWAY MARKING SYSTEM AS REQUIRED PER CBC CHAPTER 10.

4. INTERIOR STAIR TREADS ARE MARKED AT THE UPPER APPROACH AND THE LOWER TREAD OF EACH STAIR, BY A STRIP OF CLEARLY CONTRASTING COLOR, PER SECTION 11B-504.4.1, AS FOLLOWS:
   a) AT LEAST 2" WIDE (BUT NOT MORE THAN 4" WIDE).
   b) PLACED PARALLEL TO AND NOT MORE THAN 1" FROMTHE NOSE OF THE STEP OR LANDING.
   c) THE STRIP SHALL BE AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

5. ALL TREAD SURFACES COMPLY WITH SECTION 11B-504.3 AND 11B-504.5, AS FOLLOWS:
   a) OPEN RISERS ARE NOT PERMITTED.
   b) STAIR TREADS SHALL BE NO LESS THAN 11" DEEP, MEASURED FROM RISER TO RISER.
   c) STAIR TREADS SHALLBE SLIP RESISTANT; HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES.
   d) STAIR TREADS SHALL HAVE NO ABRUPT EDGES AT THE NOSING.
   e) NOSING SHALL NOT PROJECT ≥ 1½" PAST THE FACE OF THE RISER ABOVE.

6. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT THE ELEVATOR LANDINGS ON EACH ACCESSIBLE FLOOR. SECTION 1007.8. THIS APPLIES WHETHER OR NOT THE BUILDING HAS AN AUTOMATIC FIRE SPRINKLER SYSTEM.

7. AN ELEVATOR CAPABLE OF ACCOMMODATING AN AMBULANCE STRETCHER OR GURNEY IS REQUIRED AND SHALL BE IDENTIFIED WITHE THE INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES (STAR OF LIFE) SIGNAGE COMPLYING WITH SECTION 3002.4 OF HTE CALIFORNIA BUILDING CODE. SEE SIGNAGE DETAIL B4 / 2A-581

8. IN BUILDINGS REQUIRED TO HAVE STANDPIPES, NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. STANDPIPES SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION."

9. ALL STAIRWELL WALLS TO BE SMOKEPROOF.

10. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.

11. STAIR FINISH: ALL EXPOSED STEEL SHALL BE PAINTED.

12. ALL EXPOSED WELDS SHALL BE FINISHED TO NAMMA FINISH #2 FOR TUBES

14. STAIR NOSING WARNING STRIP:
   A. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   B. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   C. CONTRASTING STRIPE SHALL BE MIN. 2" WIDE, MAX. 4" WIDE PLACED PARALLEL TO AND NOT MORE THAN 1" AWAY FROM THE NOSE OF THE STEP OR UPPER APPROACH.

15. SEE ELEVATOR DETAILS ON SHEET 2A-513

16. SEE I SHEETS FOR FINISHES AND FINISH SCHEDULE.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A4	CAST-IN-PLACE CONCRETE SLAB-ON-GRADE
034500.A3	PRECAST ARCHITECTURAL STAIR
055113.B1	PREASSEMBLED STEEL STAIRS WITH CONCRETE-FILLED TREADS <DEFERRED APPROVAL>
055213.A1	TUBE RAILING SYSTEM
072100.B1	NON-COMBUSTIBLE BLANKET INSULATION, <I-3>
074646.A1	FIBER-CEMENT SIDING SYSTEM
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A' ICC-ES REPORT ESR-1157
079513.A1	EXTERIOR METAL PLATE JOINT COVER ASSEMBLY
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
211120.A1	FIRE-SUPPRESSION STANDPIPE
323223.C1	NEW CONCRETE OR CMU RETAINING WALLS, SEE CIVIL & STRUCTURAL UNDER SEPARATE PERMIT

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
ENLARGED DRAWINGS- STAIR #4 & #5

Sheet No.
2A-425

A1 STAIR #4 AND #5- SECTION 2
A1 / 2A-114 | 1/4" = 1'-0"

A3 STAIR #4 AND #5- SECTION 1
D4 / 2A-302 | 1/4" = 1'-0"

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

8/29/2017 3:18:28 PM
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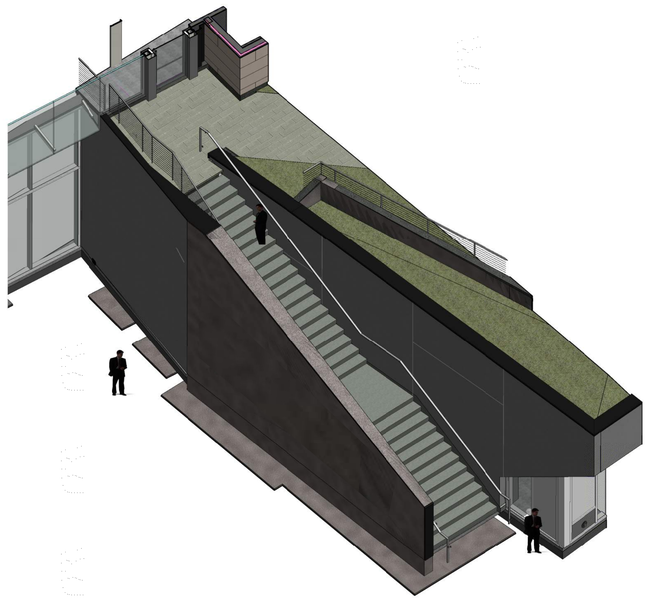
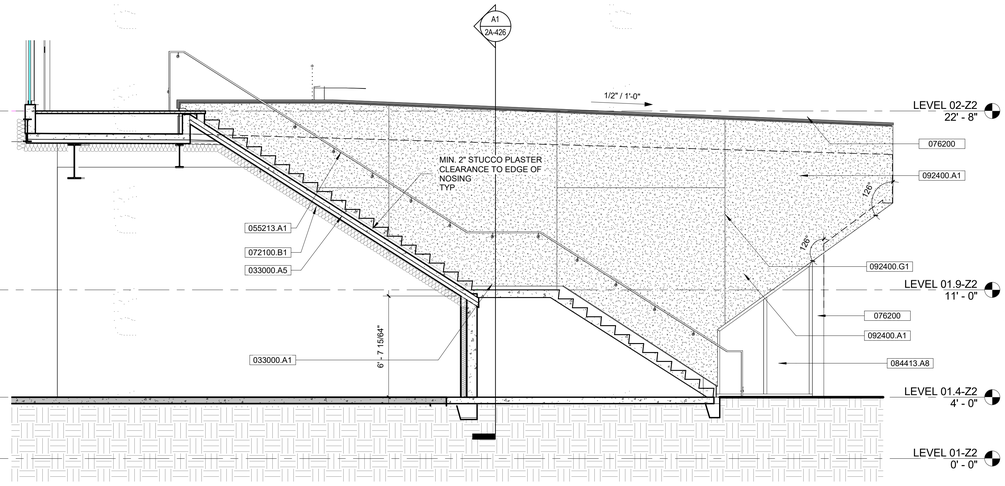
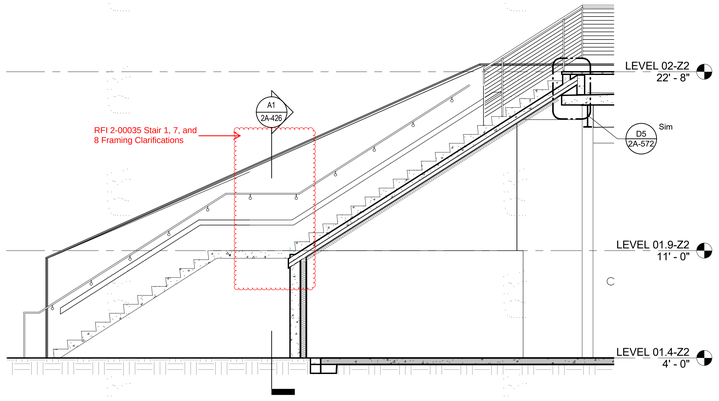


D1 STAIR #7 - 3D VIEW



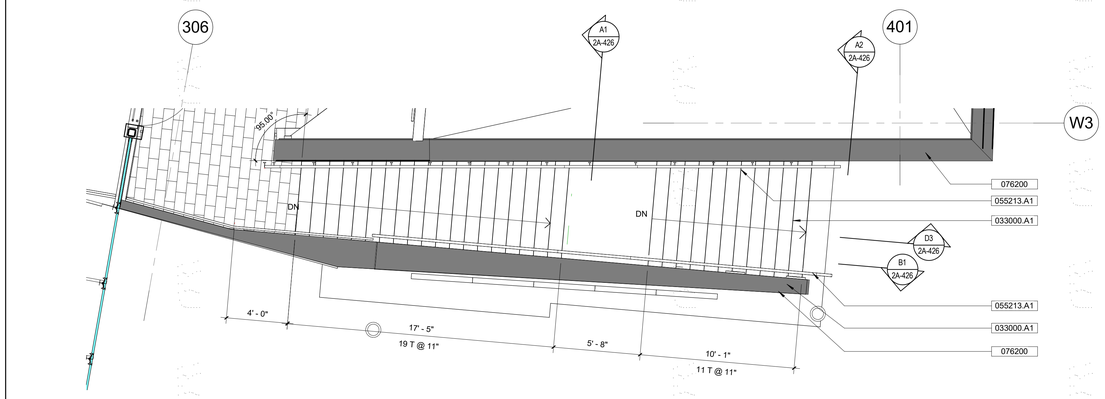
D3 STAIR #7 - SECTION 2

A1 / 2A-426 | 1/4" = 1'-0"



B1 STAIR #7 - SECTION 4

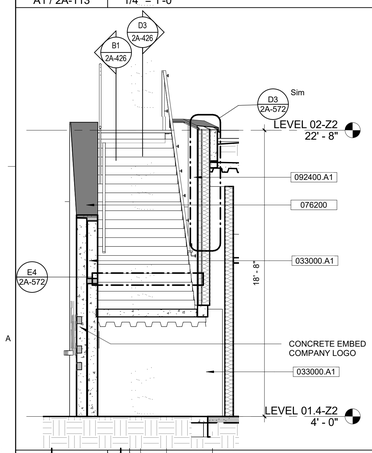
A1 / 2A-113 | 1/4" = 1'-0"



B3 STAIR #7- LEVEL 2 FLOOR PLAN

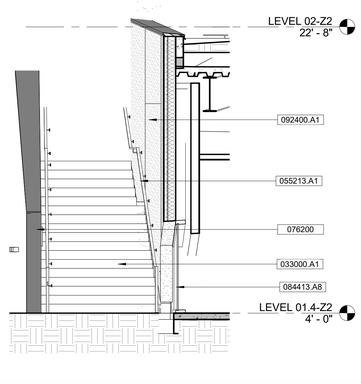
RFI 2-00035 Stair 1, 7, and 8 Framing Clarifications

A1 / 2A-123 | 1/4" = 1'-0"



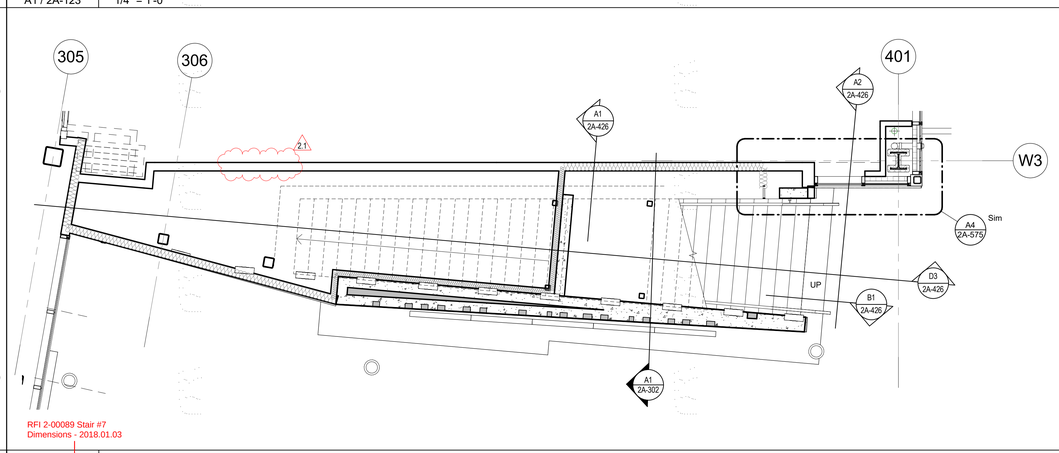
A1 STAIR #7 - SECTION 1

A3 / 2A-426 | 1/4" = 1'-0"



A2 STAIR #7 - SECTION 3

A3 / 2A-426 | 1/4" = 1'-0"



RFI 2-00089 Stair #7 Dimensions - 2018.01.03

A3 STAIR #7- LEVEL 1 FLOOR PLAN

A1 / 2A-113 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONCRETE FILLED METAL PAN STAIRS. ALL STEEL TO BE PAINTED.

2. ALL WELDS TO BE FINISHED TO NOMMA FINISH #2 FOR TUBES.

3. PROVIDE PHOTOLUMINESCENT STAIRWAY MARKING SYSTEM AS REQUIRED PER CBC CHAPTER 10.

4. INTERIOR STAIR TREADS ARE MARKED AT THE UPPER APPROACH AND THE LOWER TREAD OF EACH STAIR, BY A STRIP OF CLEARLY CONTRASTING COLOR, PER SECTION 11B-504.4.1, AS FOLLOWS:
   a) AT LEAST 2" WIDE (BUT NOT MORE THAN 4" WIDE).
   b) PLACED PARALLEL TO AND NOT MORE THAN 1" FROMTHE NOSE OF THE STEP OR LANDING.
   c) THE STRIP SHALL BE AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

5. ALL TREAD SURFACES COMPLY WITH SECTION 11B-504.3 AND 11B-504.5, AS FOLLOWS:
   a) OPEN RISERS ARE NOT PERMITTED.
   b) STAIR TREADS SHALL BE NO LESS THAN 11" DEEP, MEASURED FROM RISER TO RISER.
   c) STAIR TREADS SHALLBE SLIP RESISTANT; HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES.
   d) STAIR TREADS SHALL HAVE NO ABRUPT EDGES AT THE NOSING.
   e) NOSING SHALL NOT PROJECT ≥ 1½" PAST THE FACE OF THE RISER ABOVE.

6. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT THE ELEVATOR LANDINGS ON EACH ACCESSIBLE FLOOR. SECTION 1007.8. THIS APPLIES WHETHER OR NOT THE BUILDING HAS AN AUTOMATIC FIRE SPRINKLER SYSTEM.

7. AT LEAST ONE GURNEY-SIZED ELEVATOR SHALL BE PROVIDED. THE ELEVATOR CAR SHALL BE OF SUCH A SIZE AND ARRANGEMENT TO ACCOMMODATE A 24" X 84" AMBULANCE GURNEY OR STRETCHER IN THE HORIZONTAL, OPEN POSITION.

8. IN BUILDINGS REQUIRED TO HAVE STANDPIPES, NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. STANDPIPES SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION."

9. ALL STAIRWELL WALLS TO BE SMOKEPROOF.

10. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.

11. STAIR FINISH: ALL EXPOSED STEEL SHALL BE PAINTED.

12. ALL EXPOSED WELDS SHALL BE FINISHED TO NAMMA FINISH #2 FOR TUBES

14. STAIR NOSING WARNING STRIP:
   A. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   B. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   C. CONTRASTING STRIPE SHALL BE MIN. 2" WIDE, MAX. 4" WIDE PLACED PARALLEL TO AND NOT MORE THAN 1" AWAY FROM THE NOSE OF THE STEP OR UPPER APPROACH.

15. SEE ELEVATOR DETAILS ON SHEET 2A-513

16. SEE I SHEETS FOR FINISHES AND FINISH SCHEDULE.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033000.A5	CAST-IN-PLACE CONCRETE TOPPING OVER STEEL DECK
055213.A1	TUBE RAILING SYSTEM
072100.B1	NON-COMBUSTIBLE BLANKET INSULATION, <i-3>
076200	SHEET METAL FLASHING AND TRIM
084413.A8	GLAZED ALUMINUM CURTAIN WALL SYSTEM <CW-1 - 7.5" MULLIONS>
092400.A1	CEMENT PLASTERING ON STUD WALL SYSTEM
092400.G1	PLASTER CONTROL JOINT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

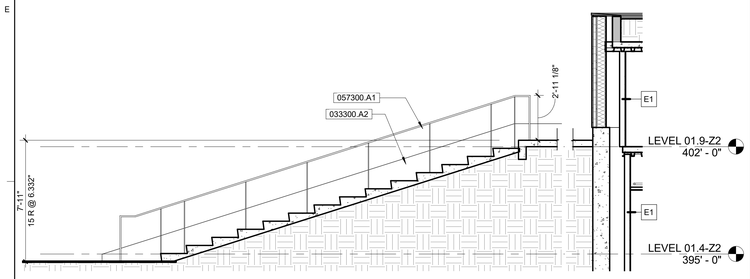
ADDENDUM #2.1
08.29.17

Sheet Title
ENLARGED DRAWINGS- STAIR #7

Sheet No.
2A-426

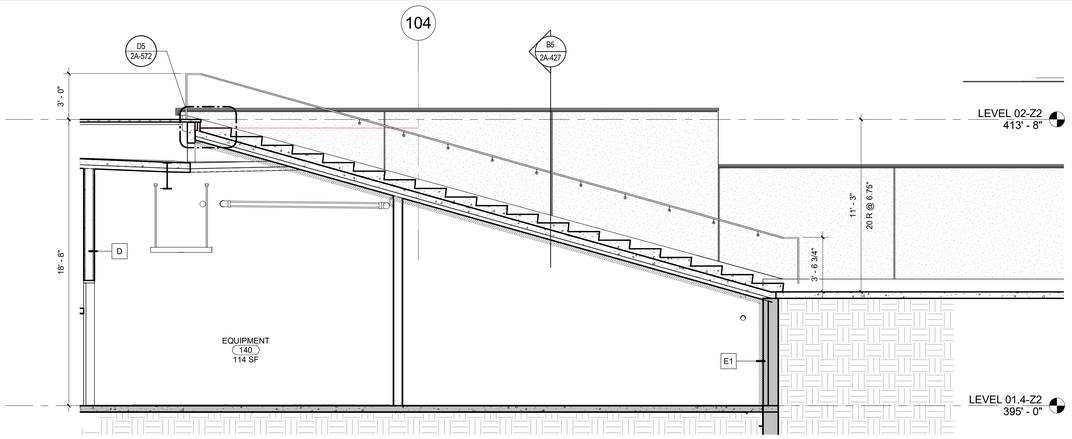
DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

11/17/2017 1:19:15 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



D1 STAIR #8- SECTION 3

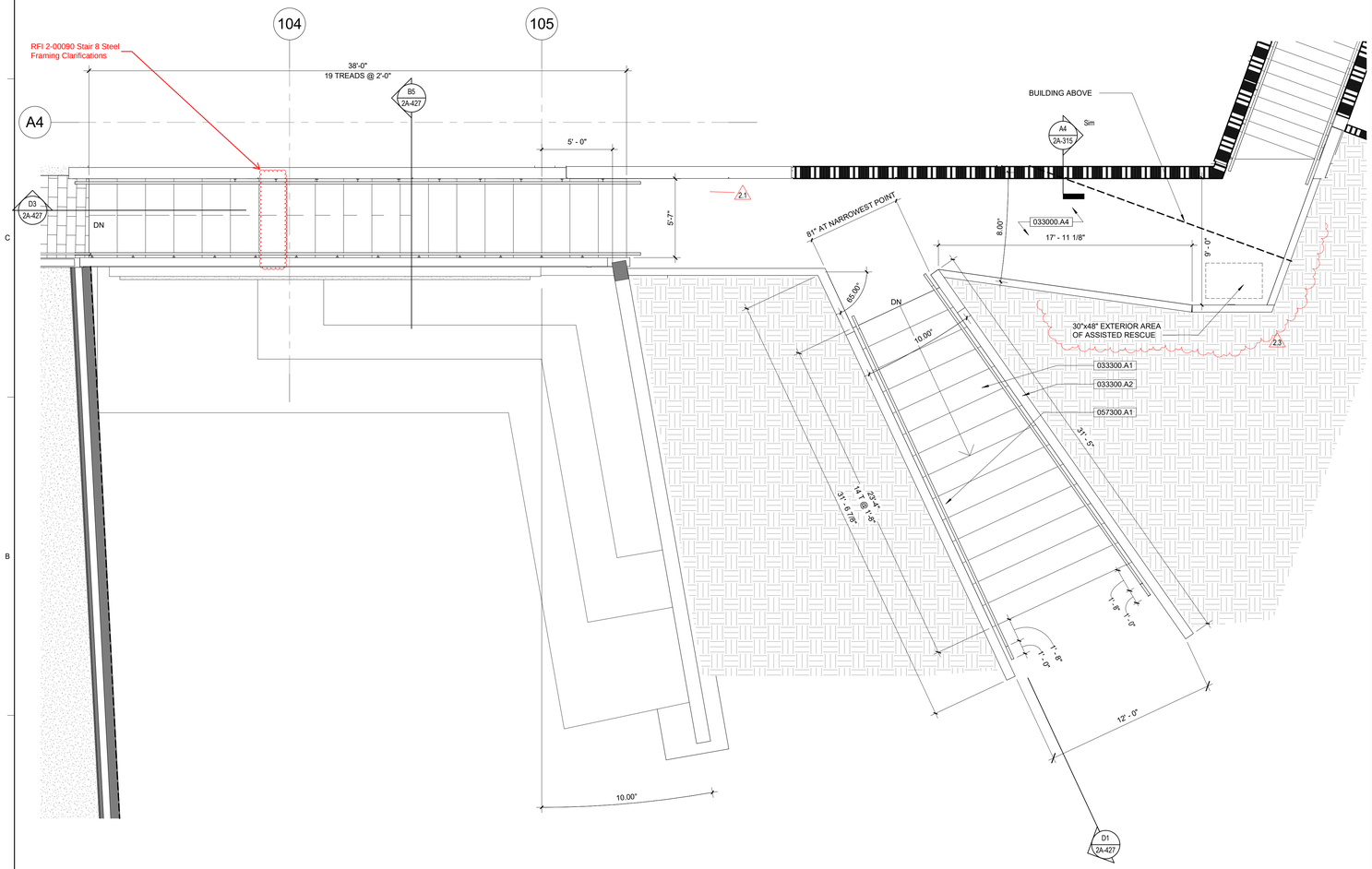
A1 / 2A-112 | 1/4" = 1'-0"



D3 STAIR #8- SECTION 1

RFI 2-00037 Stair Detail Clarification

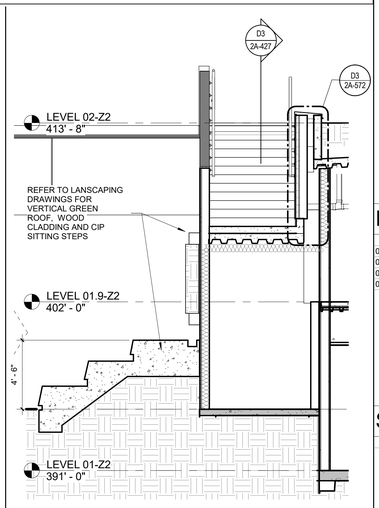
A1 / 2A-113 | 1/4" = 1'-0"



A1 STAIR #8- LEVEL 2 FLOOR PLAN

RFI 2-00035 Stair 1, 7, and 8 Framing Clarifications

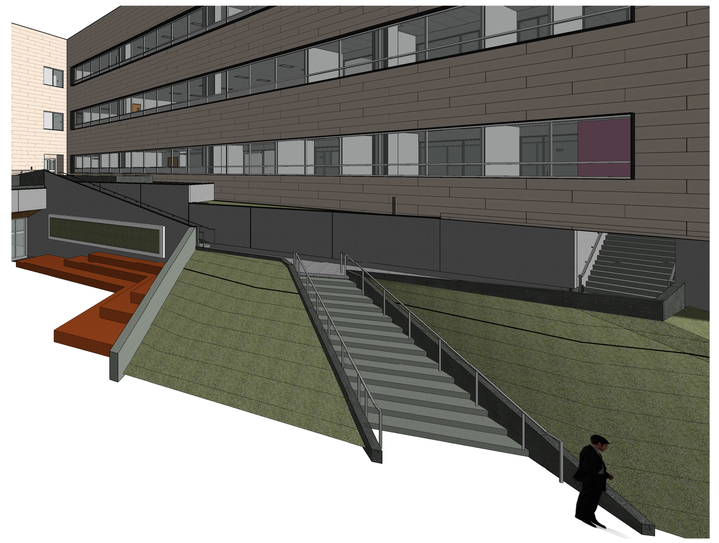
A1 / 2A-121 | 1/4" = 1'-0"



B5 STAIR #8- SECTION 2

RFI 2-00090 Stair 8 Steel Framing Clarifications

A1 / 2A-427 | 1/4" = 1'-0"



A5 STAIR #8- 3D VIEW

GENERAL SHEET NOTES

1. CONCRETE FILLED METAL PAN STAIRS. ALL STEEL TO BE PAINTED.

2. ALL WELDS TO BE FINISHED TO NOMMA FINISH #2 FOR TUBES.

3. PROVIDE PHOTOLUMINESCENT STAIRWAY MARKING SYSTEM AS REQUIRED PER CBC CHAPTER 10.

4. INTERIOR STAIR TREADS ARE MARKED AT THE UPPER APPROACH AND THE LOWER TREAD OF EACH STAIR, BY A STRIP OF CLEARLY CONTRASTING COLOR, PER SECTION 11B-504.4.1, AS FOLLOWS:
   a) AT LEAST 2" WIDE (BUT NOT MORE THAN 4" WIDE).
   b) PLACED PARALLEL TO AND NOT MORE THAN 1" FROMTHE NOSE OF THE STEP OR LANDING.
   c) THE STRIP SHALL BE AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

5. ALL TREAD SURFACES COMPLY WITH SECTION 11B-504.3 AND 11B-504.5, AS FOLLOWS:
   a) OPEN RISERS ARE NOT PERMITTED.
   b) STAIR TREADS SHALL BE NO LESS THAN 11" DEEP, MEASURED FROM RISER TO RISER.
   c) STAIR TREADS SHALLBE SLIP RESISTANT; HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES.
   d) STAIR TREADS SHALL HAVE NO ABRUPT EDGES AT THE NOSING.
   e) NOSING SHALL NOT PROJECT ≥ 1½" PAST THE FACE OF THE RISER ABOVE.

6. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT THE ELEVATOR LANDINGS ON EACH ACCESSIBLE FLOOR. SECTION 1007.8. THIS APPLIES WHETHER OR NOT THE BUILDING HAS AN AUTOMATIC FIRE SPRINKLER SYSTEM.

7. AN ELEVATOR CAPABLE OF ACCOMMODATING AN AMBULANCE STRETCHER OR GURNEY IS REQUIRED AND SHALL BE IDENTIFIED WITHE THE INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES (STAR OF LIFE) SIGNAGE COMPLYING WITH SECTION 3002.4 OF HTE CALIFORNIA BUILDING CODE. SEE SIGNAGE DETAIL B4 / 2A-581

8. IN BUILDINGS REQUIRED TO HAVE STANDPIPES, NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. STANDPIPES SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION."

9. ALL STAIRWELL WALLS TO BE SMOKEPROOF.

10. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.

11. STAIR FINISH: ALL EXPOSED STEEL SHALL BE PAINTED.

12. ALL EXPOSED WELDS SHALL BE FINISHED TO NAMMA FINISH #2 FOR TUBES

14. STAIR NOSING WARNING STRIP:
   A. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   B. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   C. CONTRASTING STRIPE SHALL BE MIN. 2" WIDE, MAX. 4" WIDE PLACED PARALLEL TO AND NOT MORE THAN 1" AWAY FROM THE NOSE OF THE STEP OR UPPER APPROACH.

15. SEE ELEVATOR DETAILS ON SHEET 2A-513

16. SEE I SHEETS FOR FINISHES AND FINISH SCHEDULE.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A4	CAST-IN-PLACE CONCRETE SLAB-ON-GRADE
033300.A1	ARCHITECTURAL CONCRETE
033300.A2	C.I.P. SITE WALL W/ SMOOTH FINISH, SEE LANDSCAPE
057300.A1	STAINLESS STEEL CABLE GUARD RAIL

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC

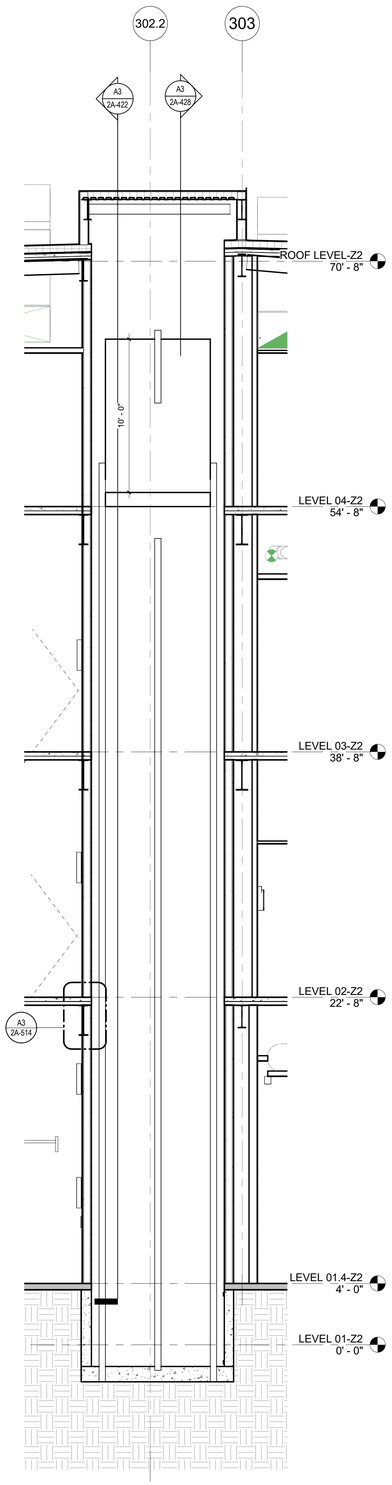
CITY SUBMITTAL SET
08.08.17

Sheet Title
ENLARGED DRAWINGS- STAIR #8

Sheet No.
2A-427

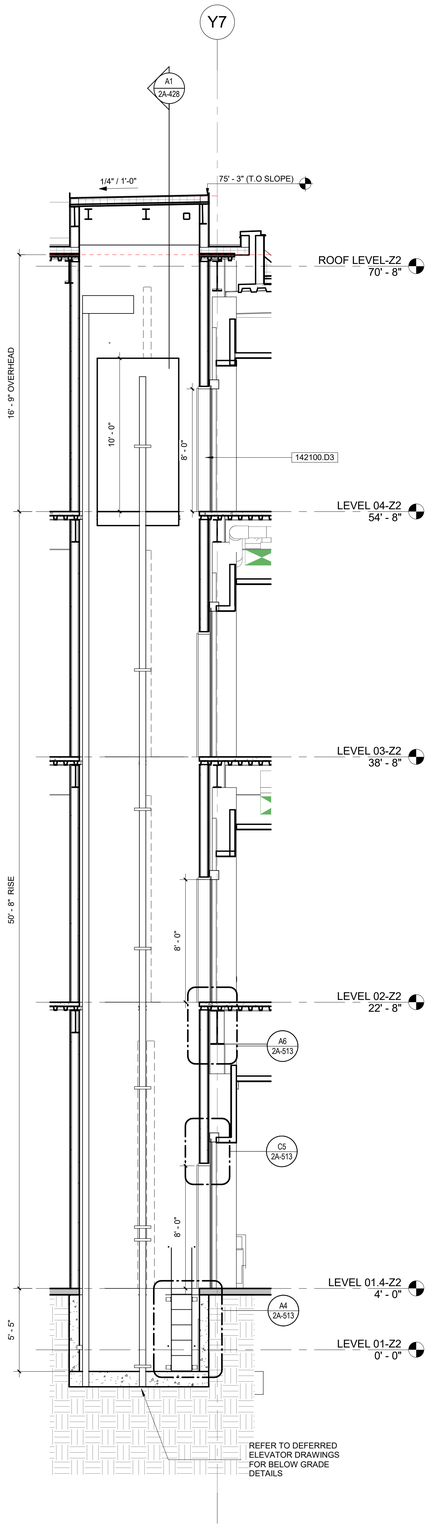
DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 3:38:39 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



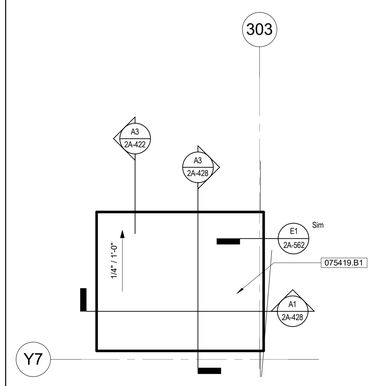
A1 PE3 - SECTION - A

A3 / 2A-428 | 1/4" = 1'-0"



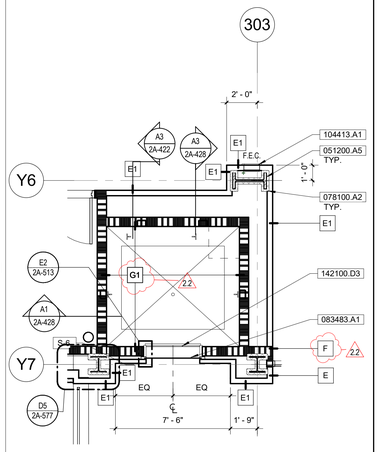
A3 PE3 - SECTION - B

A1 / 2A-428 | 1/4" = 1'-0"



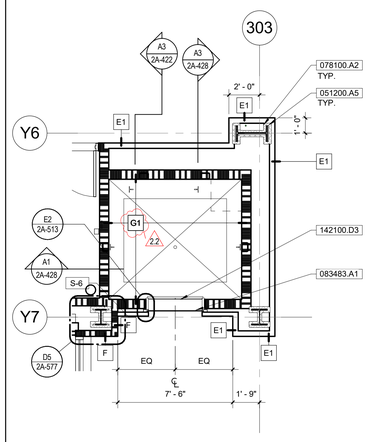
E4 PE3 - PLAN @ ROOF

A1 / 2A-153 | 1/4" = 1'-0"



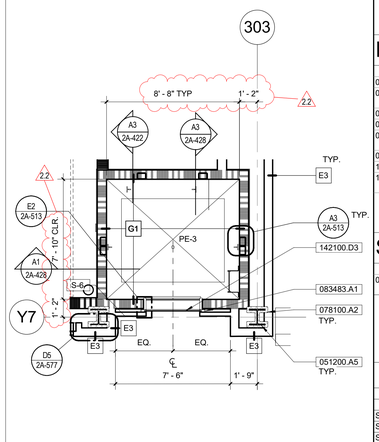
E5 PE3- PLAN @ L2

A1 / 2A-123 | 1/4" = 1'-0"



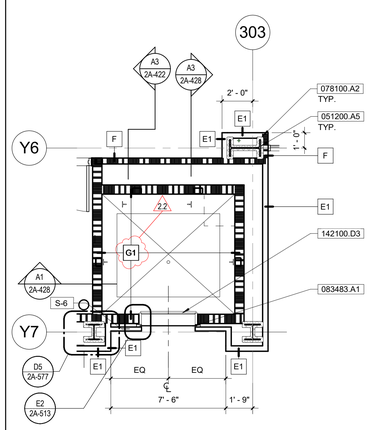
C4 PE3- PLAN @ L4

A1 / 2A-143 | 1/4" = 1'-0"



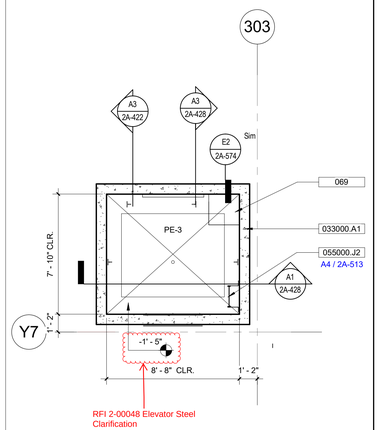
C5 PE3 - PLAN @ L1

A1 / 2A-113 | 1/4" = 1'-0"



A4 PE3- PLAN @ L3

A1 / 2A-133 | 1/4" = 1'-0"



A5 PE3 - PLAN @ PIT

A1 / 2A-113 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONCRETE FILLED METAL PAN STAIRS. ALL STEEL TO BE PAINTED.
2. ALL WELDS TO BE FINISHED TO NOMMA FINISH #2 FOR TUBES.
3. PROVIDE PHOTOLUMINESCENT STAIRWAY MARKING SYSTEM AS REQUIRED PER CBC CHAPTER 10.
4. INTERIOR STAIR TREADS ARE MARKED AT THE UPPER APPROACH AND THE LOWER TREAD OF EACH STAIR, BY A STRIP OF CLEARLY CONTRASTING COLOR, PER SECTION 11B-504.4.1, AS FOLLOWS:
   a) AT LEAST 2" WIDE (BUT NOT MORE THAN 4" WIDE).
   b) PLACED PARALLEL TO AND NOT MORE THAN 1" FROMTHE NOSE OF THE STEP OR LANDING.
   c) THE STRIP SHALL BE AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.
5. ALL TREAD SURFACES COMPLY WITH SECTION 11B-504.3 AND 11B-504.5, AS FOLLOWS:
   a) OPEN RISERS ARE NOT PERMITTED.
   b) STAIR TREADS SHALL BE NO LESS THAN 11" DEEP, MEASURED FROM RISER TO RISER.
   c) STAIR TREADS SHALLBE SLIP RESISTANT; HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES.
   d) STAIR TREADS SHALL HAVE NO ABRUPT EDGES AT THE NOSING.
   e) NOSING SHALL NOT PROJECT ≥ 1½" PAST THE FACE OF THE RISER ABOVE.
6. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT THE ELEVATOR LANDINGS ON EACH ACCESSIBLE FLOOR. SECTION 1007.8. THIS APPLIES WHETHER OR NOT THE BUILDING HAS AN AUTOMATIC FIRE SPRINKLER SYSTEM.
7. AT LEAST ONE GURNEY-SIZED ELEVATOR SHALL BE PROVIDED. THE ELEVATOR CAR SHALL BE OF SUCH A SIZE AND ARRANGEMENT TO ACCOMMODATE A 24" X 84" AMBULANCE GURNEY OR STRETCHER IN THE HORIZONTAL, OPEN POSITION.
8. IN BUILDINGS REQUIRED TO HAVE STANDPIPES, NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. STANDPIPES SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION."
9. ALL STAIRWELL WALLS TO BE SMOKEPROOF.
10. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
11. STAIR FINISH: ALL EXPOSED STEEL SHALL BE PAINTED.
12. ALL EXPOSED WELDS SHALL BE FINISHED TO NAMMA FINISH #2 FOR TUBES
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   A. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   B. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   C. CONTRASTING STRIPE SHALL BE MIN. 2" WIDE, MAX. 4" WIDE PLACED PARALLEL TO AND NOT MORE THAN 1" AWAY FROM THE NOSE OF THE STEP OR UPPER APPROACH.
15. SEE ELEVATOR DETAILS ON SHEET 2A-513
16. SEE I SHEETS FOR FINISHES AND FINISH SCHEDULE.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
053000.A1	CAST-IN-PLACE CONCRETE
051200.A5	STRUCTURAL STEEL FRAMING WITH APPLIED FIREPROOFING. <SEE STRUCTURAL DRAWINGS>
055000.J2	STEEL SHIP LADDER
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A'
078100.A2	SPRAYED FIRE RESISTIVE MATERIAL WITH 2-HOUR FIRE-RESISTANCE RATING
083483.A1	ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM
104413.A1	FIRE PROTECTION CABINET
142100.D3	HOISTWAY ENTRANCE DOORS AND FRAMES, <STAINLESS STEEL 5WL FINISH> <BRONZE>

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
069	ELEVATOR SUMP PIT WITH REMOVABLE METAL GRATE & OVERFLOW ALARM SENSOR - SUMP LOCATION PER ELEVATOR MFG

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
ENLARGED ELEVATOR-PE3

Sheet No.
2A-428

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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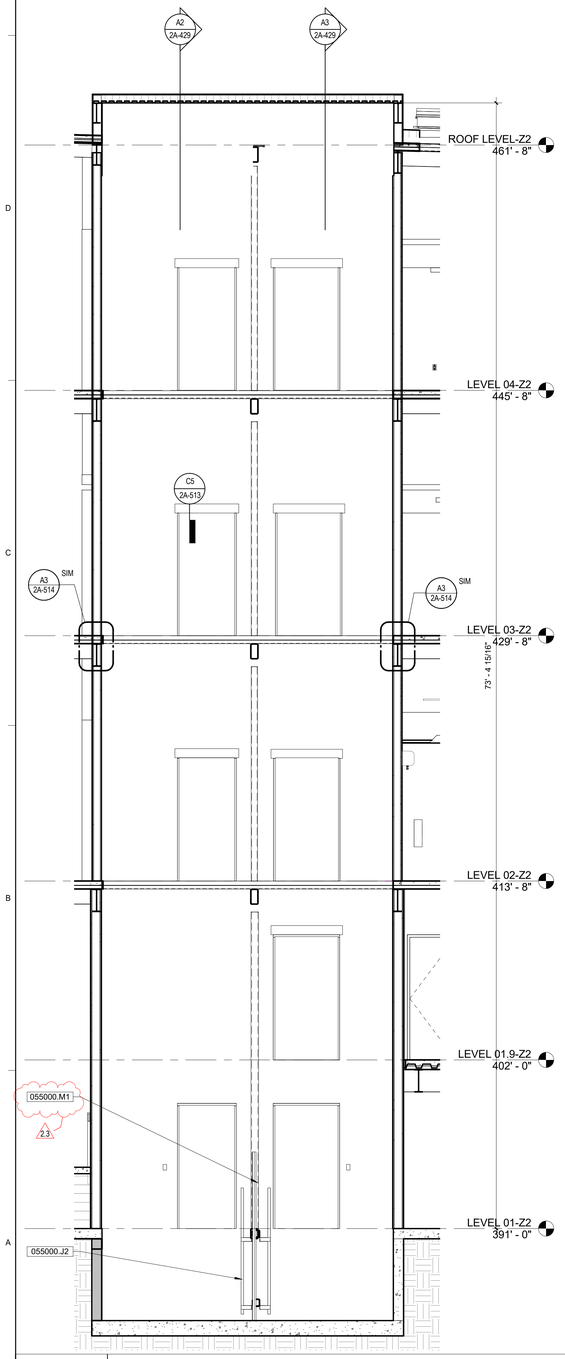
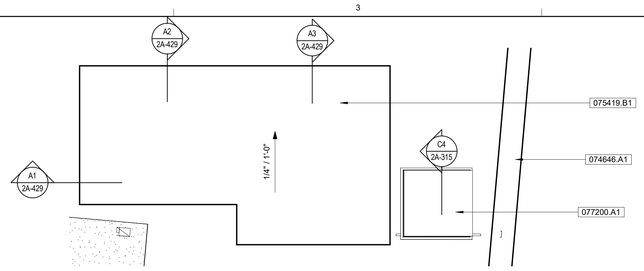


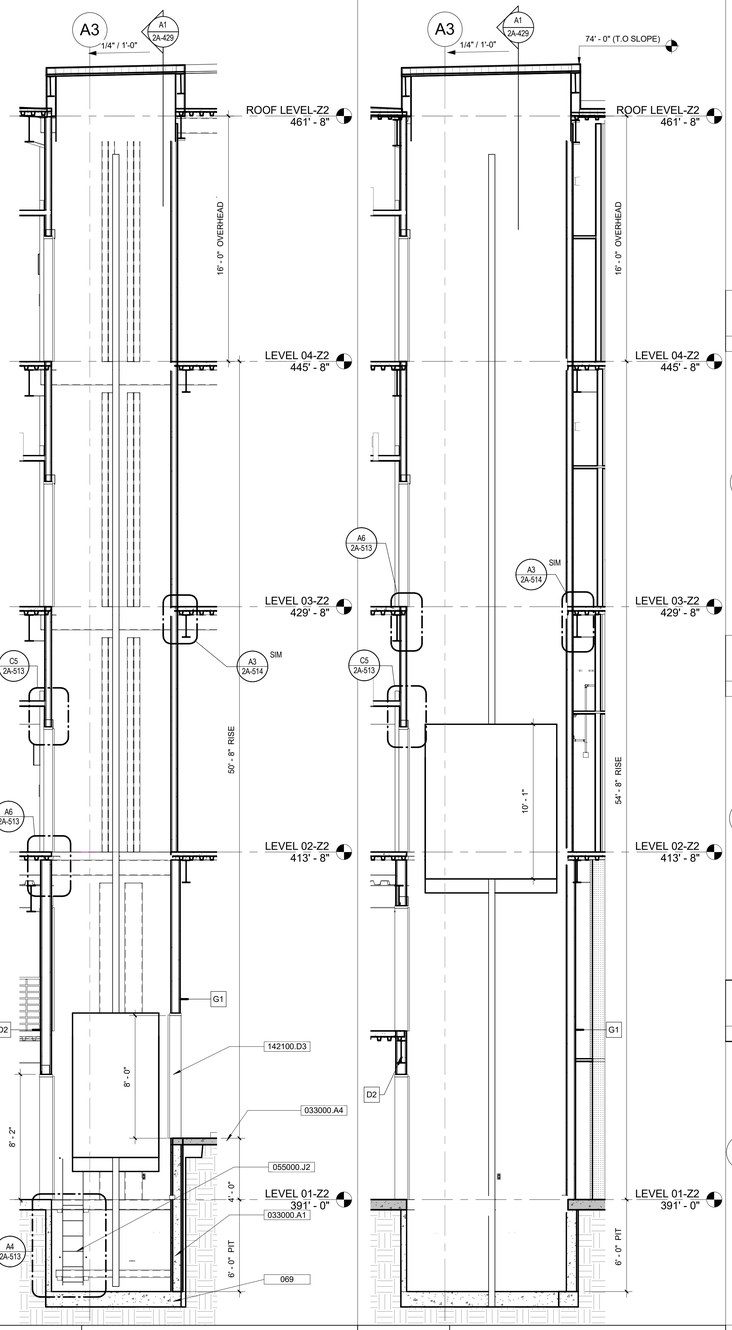
A1 PE1 & SE2 - SECTION B

A2 / 2A-429 | 1/4" = 1'-0"



E2 PE1 & SE1 - ROOF

B1 / 2A-152 | 1/4" = 1'-0"

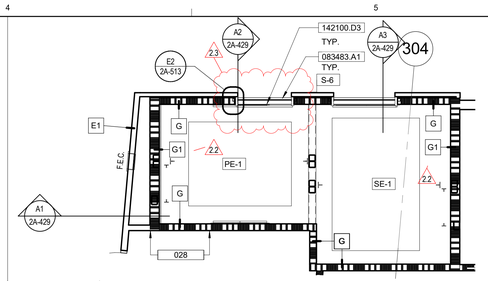


A2 PE1 - SECTION A

A1 / 2A-429 | 1/4" = 1'-0"

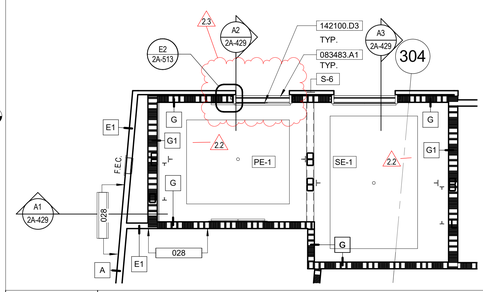
A3 SE1 - SECTION A

A1 / 2A-429 | 1/4" = 1'-0"



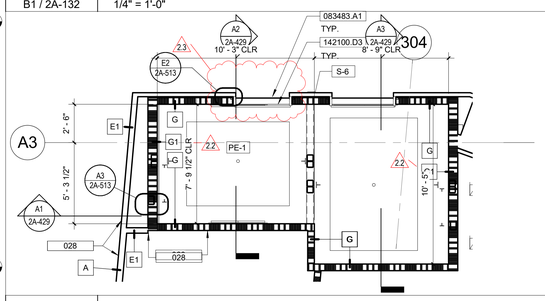
E4 PE1 & SE1- PLAN @ L4

B1 / 2A-142 | 1/4" = 1'-0"



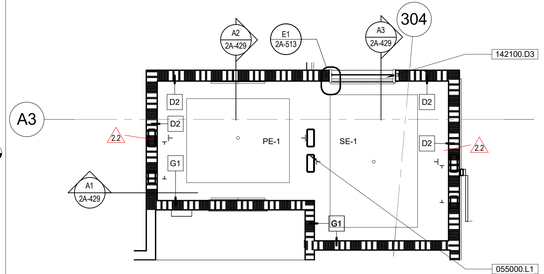
D4 PE1 & SE1- PLAN @ L3

B1 / 2A-132 | 1/4" = 1'-0"



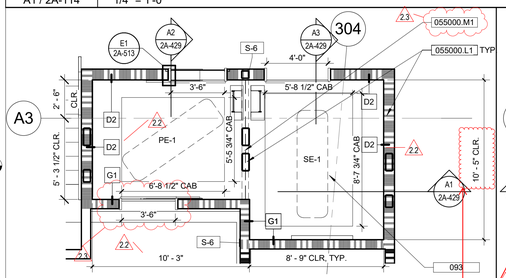
C4 PE1 & SE1- PLAN @ L2

B1 / 2A-122 | 1/4" = 1'-0"



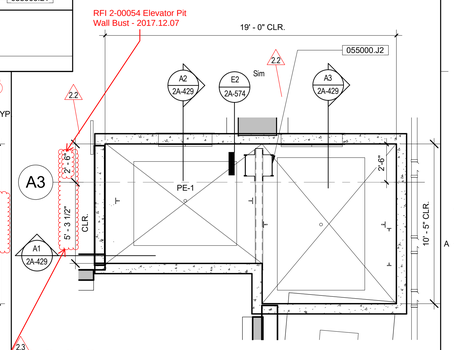
B4 PE1 & SE1- PLAN @ MEZZANINE

A1 / 2A-114 | 1/4" = 1'-0"



A4 PE1 & SE1 - LEVEL 1

A1 / 2A-112 | 1/4" = 1'-0"



A6 PE1 & SE1 - FOUNDATION

1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONCRETE FILLED METAL PAN STAIRS. ALL STEEL TO BE PAINTED.

2. ALL WELDS TO BE FINISHED TO NOMMA FINISH #2 FOR TUBES.

3. PROVIDE PHOTOLUMINESCENT STAIRWAY MARKING SYSTEM AS REQUIRED PER CBC CHAPTER 10.

4. INTERIOR STAIR TREADS ARE MARKED AT THE UPPER APPROACH AND THE LOWER TREAD OF EACH STAIR, BY A STRIP OF CLEARLY CONTRASTING COLOR, PER SECTION 11B-504.4.1, AS FOLLOWS:
   a) AT LEAST 2" WIDE (BUT NOT MORE THAN 4" WIDE).
   b) PLACED PARALLEL TO AND NOT MORE THAN 1" FROMTHE NOSE OF THE STEP OR LANDING.
   c) THE STRIP SHALL BE AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

5. ALL TREAD SURFACES COMPLY WITH SECTION 11B-504.3 AND 11B-504.5, AS FOLLOWS:
   a) OPEN RISERS ARE NOT PERMITTED.
   b) STAIR TREADS SHALL BE NO LESS THAN 11" DEEP, MEASURED FROM RISER TO RISER.
   c) STAIR TREADS SHALLBE SLIP RESISTANT; HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES.
   d) STAIR TREADS SHALL HAVE NO ABRUPT EDGES AT THE NOSING.
   e) NOSING SHALL NOT PROJECT ≥ 1½" PAST THE FACE OF THE RISER ABOVE.

6. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT THE ELEVATOR LANDINGS ON EACH ACCESSIBLE FLOOR. SECTION 1007.8. THIS APPLIES WHETHER OR NOT THE BUILDING HAS AN AUTOMATIC FIRE SPRINKLER SYSTEM.

7. AN ELEVATOR CAPABLE OF ACCOMMODATING AN AMBULANCE STRETCHER OR GURNEY IS REQUIRED AND SHALL BE IDENTIFIED WITHE THE INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES (STAR OF LIFE) SIGNAGE COMPLYING WITH SECTION 3002.4 OF HTE CALIFORNIA BUILDING CODE. SEE SIGNAGE DETAIL B4 / 2A-581

8. IN BUILDINGS REQUIRED TO HAVE STANDPIPES, NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. STANDPIPES SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION."

9. ALL STAIRWELL WALLS TO BE SMOKEPROOF.

10. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.

11. STAIR FINISH: ALL EXPOSED STEEL SHALL BE PAINTED.

12. ALL EXPOSED WELDS SHALL BE FINISHED TO NAMMA FINISH #2 FOR TUBES

14. STAIR NOSING WARNING STRIP:
   A. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   B. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
   C. CONTRASTING STRIPE SHALL BE MIN. 2" WIDE, MAX. 4" WIDE PLACED PARALLEL TO AND NOT MORE THAN 1" AWAY FROM THE NOSE OF THE STEP OR UPPER APPROACH.

15. SEE ELEVATOR DETAILS ON SHEET 2A-513

16. SEE I SHEETS FOR FINISHES AND FINISH SCHEDULE.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033000.A4	CAST-IN-PLACE CONCRETE SLAB-ON-GRADE
055000.J2	STEEL SHIP LADDER
055000.L1	ELEVATOR MACHINE HOIST BEAM AND COLUMNS
055000.M1	GUARDS BETWEEN ADJACENT ELEVATOR PITS
074646.A1	FIBER-CEMENT SIDING SYSTEM
075419.B1	FULLY-ADHERED PVC ROOFING MEMBRANE - CLASS 'A' ICC-ES REPORT ESR-1157
077200.A1	ROOF HATCH, 48"X48"
083483.A1	ELEVATOR DOOR SMOKE CONTAINMENT SYSTEM-2HR RATED
142100.D3	HOISTWAY ENTRANCE DOORS AND FRAMES, <STAINLESS STEEL 5WL FINISH>

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
028	FACE OF WALLS TO ALIGN
069	ELEVATOR SUMP PIT WITH REMOVABLE METAL GRATE & OVERFLOW ALARM SENSOR - SUMP LOCATION PER ELEVATOR MFG
093	24"X84" AMBULANCE STRETCHER/GURNEY WITH 5" RADIUS CORNERS

SIGNAGE

TYPE MARK	DESCRIPTION	TYPE COMMENTS
S-1	RESTROOM WALL SIGN	SEE DETAIL A1/2A-581
S-2	RESTROOM DOOR SIGN	SEE DETAIL 2A/2A-581
S-3	EXIT ROUTE SIGN	SEE DETAIL A6/2A-581
S-4	OCCUPANT LOAD SIGN	SEE DETAIL D5/2A-581
S-5	NO SMOKING SIGN	SEE DETAIL D2/2A-581
S-6	EVACUTION ROUTE SIGN	SEE DETAIL D4/2A-581
S-7	FLOOR LEVEL SIGN	SEE DETAIL B2/2A-581
S-8	STAIRWAY SIGN	SEE DETAIL B2/2A-581
S-9	HAZARDOUS MATERIAL SIGN	SEE DETAIL E1/2A-581
S-11	ACCESSIBLE ENTRANCE SIGN	SEE DETAIL B5/2A-581
S-12	UTILITY ROOM SIGN	SEE DETAIL C6/2A-582
S-14	ASSISTED LISTENING DEVICE SIGN	SEE DETAIL D6/2A-581
S-15	WAREHOUSE DOOR SIGN	SEE DETAIL D6/2A-582
S-16	AREA OF ASSISTED RESCUE	SEE DETAIL E6/2A-582

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
ENLARGED ELEVATORS- PE-1 AND SE-1

Sheet No.
2A-429

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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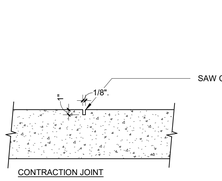
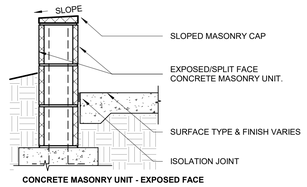
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



D3 PAVING CONSTRUCTION JOINTS

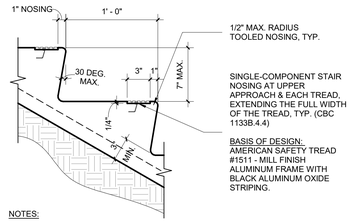
1" = 1'-0"



1. REFER TO STRUCTURAL FOR FOOTINGS AND STEEL REINFORCING.
2. COORDINATE WITH SITEPLAN & CIVIL FOR WALL HEIGHTS

D4 TYPICAL SITE WALLS

A4 / 2A-315 | 1" = 1'-0"

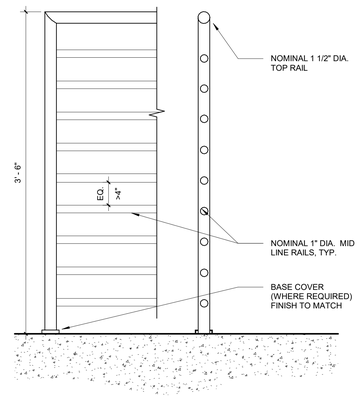


NOTES:

1. FOR REINFORCEMENT, SEE STRUCTURAL DRAWINGS. RISERS TO BE EQUAL IN HEIGHT - NOT TO EXCEED 7"
2. STAIR TREAD/RISERS SHALL COMPLY WITH FIGURE 11B-35 OF THE CALIFORNIA BUILDING CODE.

D5 TYPICAL SITE STAIR

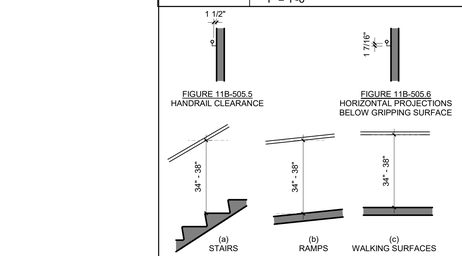
1 1/2" = 1'-0"



1. GUARDS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER FROM WALKING SURFACE TO REQUIRED GUARD HEIGHT EXCEPT FROM A HEIGHT OF 36 "TO 42", EXCEPT AS ALLOWED BY SECTION 1015.4.

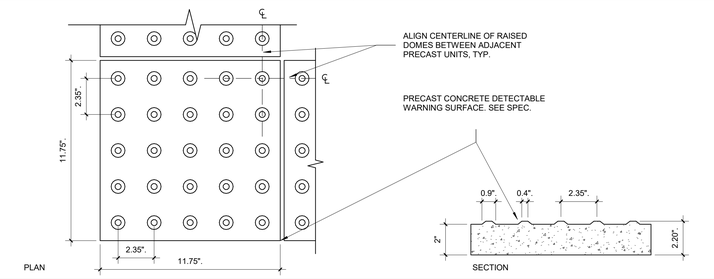
D6 EXTERIOR PIPE RAIL

A1 / 2A-112 | 1 1/2" = 1'-0"



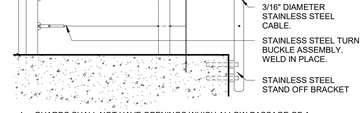
C3 ADA HANDRAIL DIMENSIONS

3/8" = 1'-0"



C4 DETECTABLE WARNING SURFACE

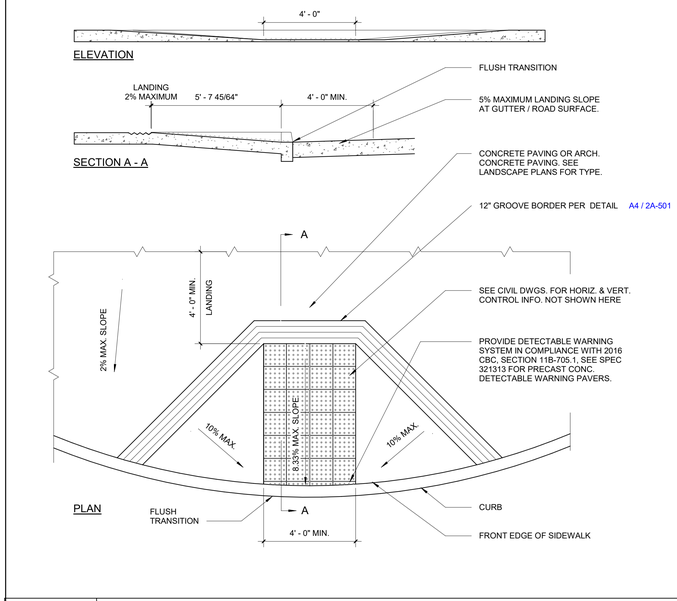
3" = 1'-0"



1. GUARDS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER FROM WALKING SURFACE TO REQUIRED GUARD HEIGHT EXCEPT FROM A HEIGHT OF 36 "TO 42", EXCEPT AS ALLOWED BY SECTION 1015.4.
2. ALL STAINLESS STEEL TO MATCH: #No. 4 POLISHED 304 S.S.

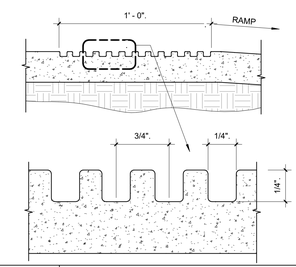
B6 EXTERIOR POST AND CABLE RAILING

C1 / 2A-202 | 1 1/2" = 1'-0"



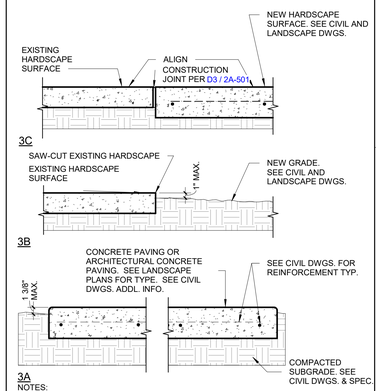
A3 H.C.CURB RAMP

3/8" = 1'-0"



A4 GROOVING DETAIL

3/4" = 1'-0"



NOTES:

1. SEE DETAIL D3 / 2A-501THIS SHEET FOR TYPICAL SIDEWALK JOINTS.
2. SEE SITE PLANS FOR SCORING PATTERN.
3. SEE CIVIL DRAWINGS FOR ADDITIONAL INFO NOT SHOWN HERE.

A6 TYPICAL SIDEWALK

1" = 1'-0"

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

Sheet Title

SITE DETAILS

Sheet No.

2A-501

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

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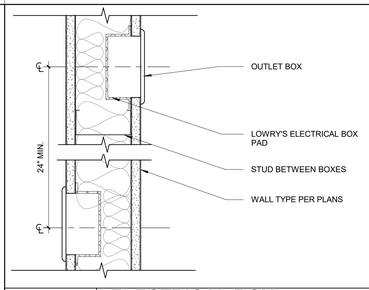
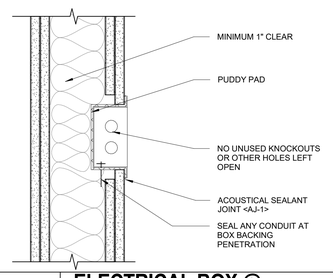


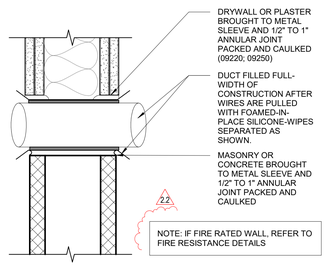
E2 ELECTRICAL BOX INSTALLATION

3" = 1'-0"



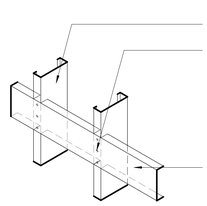
D2 ELECTRICAL BOX @ ACOUSTICAL WALL

3" = 1'-0"



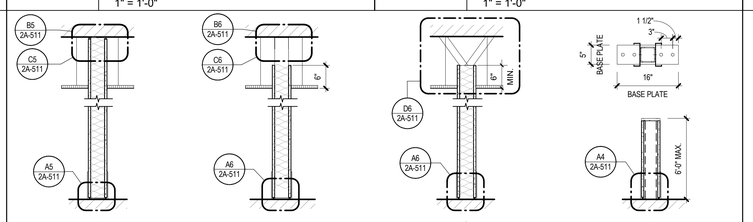
C2 PENETRATION THRU STC-RATED WALL

3" = 1'-0"



E3 BACKING DETAIL

1" = 1'-0"



FULL HEIGHT PARTITION: WALL ASSEMBLY FROM FLOOR TO UNDERSIDE OF DECK ABOVE

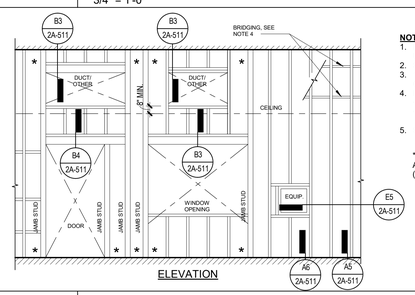
STANDARD PARTITION: STUDS TO RUN FROM FLOOR TO UNDERSIDE OF DECK ABOVE

PARTIAL HEIGHT PARTITION: WALL ASSEMBLY TO RUN FROM FLOOR TO ABOVE CEILING. STUDS TO BE KICKED TO DECK ABOVE

LOW PARTITION: WALL ASSEMBLY TO RUN FROM FLOOR TO HEIGHT INDICATED ON PLANS.

D3 WALL TYPE SECTIONS

3/4" = 1'-0"



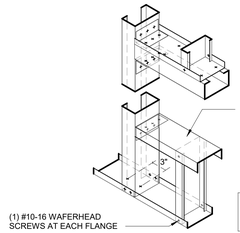
ELEVATION

NOTES:
1. RUN ALL STUDS CONTINUOUS FROM STR. DECK BELOW TO UNDERSIDE OF STR. DECK ABOVE, U.N.O.
2. STUDS PER WALL TYPES
3. 16 GA. STUDS @ ALL WALLS SUPPORTING CASEWORK & CABINETS OR WHERE UPPER SHELVING IS INDICATED. SEE DETAIL E3/ 2A-511
4. BRIDGING PER E4 / 2A-511
   - MANDATORY WITHIN 12" OF UPPER TRACK
   - ELSEWHERE PROVIDE @ 4'-0" O.C. VERT. WHERE GYP. BD. DOES NOT OCCUR ON BOTH SIDES OF STUD, TYP.
5. SEE DETAILS THIS SHEET FOR TYPICAL INTERIOR STUD LAYOUT

* AT EACH JAMB STUD, PROVIDE (2) 0.157 POWDER ACTUATED FASTNERS W/ 1" EMBEDMENT TO DECK (ICC ESR-2269)

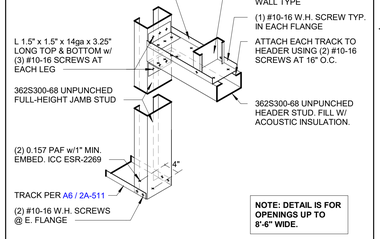
C3 INTERIOR STEEL STUD LAYOUT

3/16" = 1'-0"



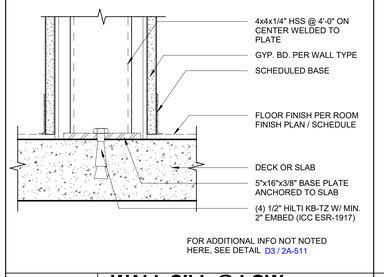
B3 FRAMED OPENING, TYP.

C3 / 2A-511 | 1 1/2" = 1'-0"



B4 FRAMED DOOR OPENING, TYP.

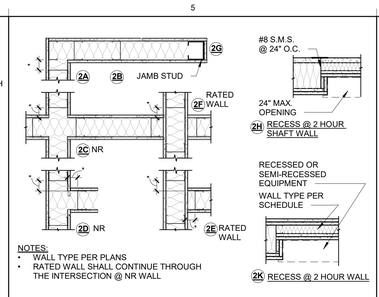
C3 / 2A-511 | 1 1/2" = 1'-0"



FOR ADDITIONAL INFO NOT NOTED HERE, SEE DETAIL D3 / 2A-511

A4 WALL SILL @ LOW PARTITION

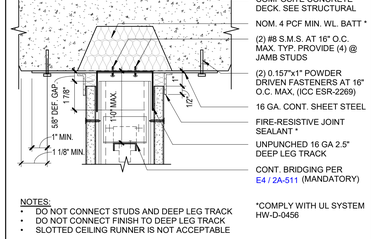
D3 / 2A-511 | 3" = 1'-0"



NOTES:
- WALL TYPE PER PLANS
- RATED WALL SHALL CONTINUE THROUGH THE INTERSECTION @ NR WALL

E5 PLAN TYPICAL INTERIOR STUD LAYOUT

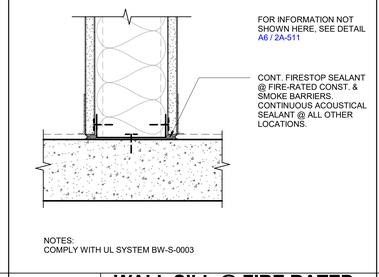
C3 / 2A-511 | 1" = 1'-0"



NOTES:
- DO NOT CONNECT STUDS AND DEEP LEG TRACK
- DO NOT CONNECT FINISH TO DEEP LEG TRACK
- SLOTTED CEILING RUNNER IS NOT ACCEPTABLE

C5 HEAD OF WALL RATED @ PERPENDICULAR TO DECK

D3 / 2A-511 | 3" = 1'-0"



NOTES:
- DO NOT CONNECT STUDS AND DEEP LEG TRACK
- DO NOT CONNECT FINISH TO DEEP LEG TRACK
- SLOTTED CEILING RUNNER IS NOT ACCEPTABLE

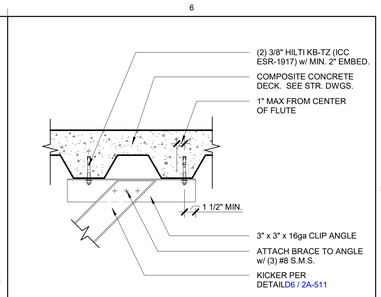
B5 HEAD OF WALL RATED @ PARALLEL TO DECK

D2 / 2A-315 | 3" = 1'-0"

NOTES:
COMPLY WITH UL SYSTEM BW-S-0003

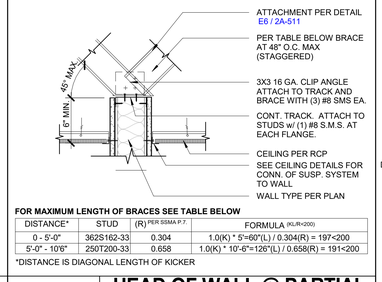
A5 WALL SILL @ FIRE RATED WALL

C3 / 2A-511 | 3" = 1'-0"



E6 HEAD OF WALL ATTACHMENT

1 1/2" = 1'-0"

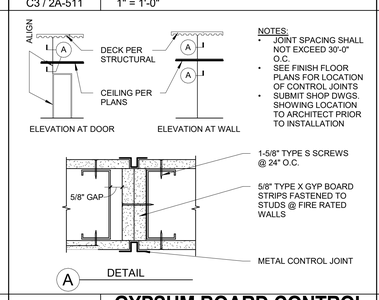


FOR MAXIMUM LENGTH OF BRACES SEE TABLE BELOW

DISTANCE*	STUD	(R) PER SSMA P.7	FORMULA (KL/R<200)
0 - 5'-0"	362S162-33	0.304	1.0(K) * 5"=60"(L) / 0.304(R) = 197<200
5'-0" - 10'6"	250T200-33	0.658	1.0(K) * 10'-6"=126"(L) / 0.658(R) = 191<200

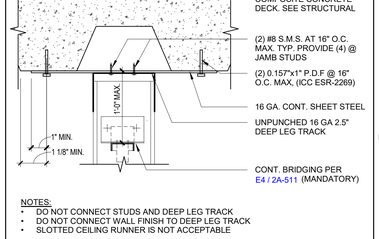
*DISTANCE IS DIAGONAL LENGTH OF KICKER

NOTES:
- JOINT SPACING SHALL NOT EXCEED 30'-0" O.C.
- SEE FINISH FLOOR PLANS FOR LOCATION OF CONTROL JOINTS
- SUBMIT SHOP DWGS. SHOWING LOCATION TO ARCHITECT PRIOR TO INSTALLATION



D5 GYPSUM BOARD CONTROL JOINT

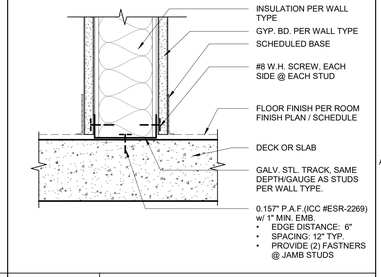
1 1/2" = 1'-0"



NOTES:
- DO NOT CONNECT STUDS AND DEEP LEG TRACK
- DO NOT CONNECT WALL FINISH TO DEEP LEG TRACK
- SLOTTED CEILING RUNNER IS NOT ACCEPTABLE

D6 HEAD OF WALL @ PARTIAL HEIGHT WALL

D3 / 2A-511 | 1 1/2" = 1'-0"



NOTES:
- DO NOT CONNECT STUDS AND DEEP LEG TRACK
- DO NOT CONNECT WALL FINISH TO DEEP LEG TRACK
- SLOTTED CEILING RUNNER IS NOT ACCEPTABLE

B6 HEAD OF WALL @ PARALLEL TO DECK, TYP.

D3 / 2A-511 | 3" = 1'-0"

A6 WALL SILL TYP.

C3 / 2A-511 | 3" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
METAL STUD DETAILS

Sheet No.
2A-511

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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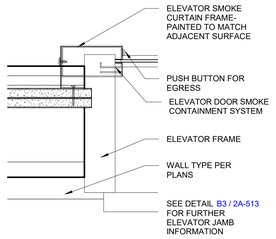
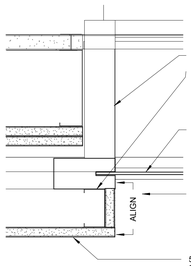


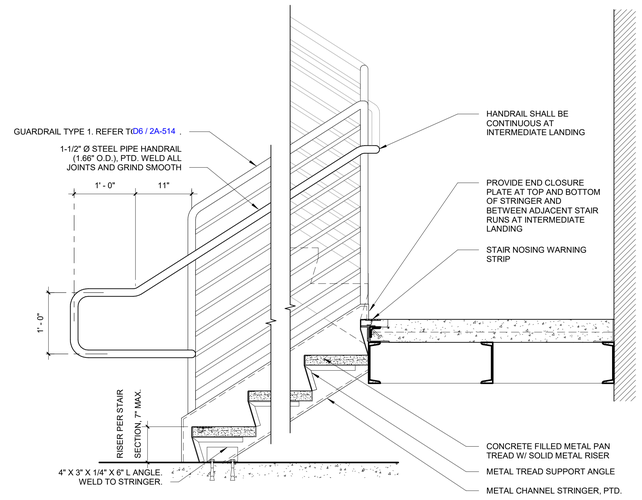
E1 EXPOSED SMOKE CURTAIN JAMB DETAIL

A4 / 2A-429 | 3" = 1'-0"



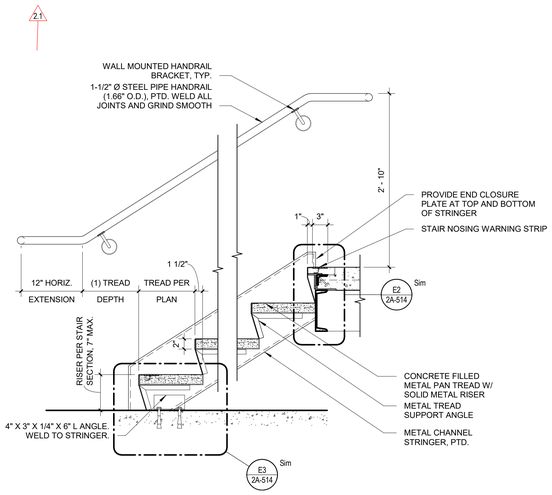
E2 INSET SMOKE CURTAIN JAMB DETAIL

A4 / 2A-428 | 3" = 1'-0"



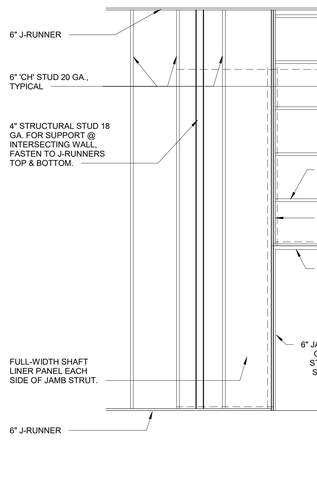
D3 CROSS SECTION THRU STAIR- CENTER RAIL

C4 / 2A-422 | 1" = 1'-0"



D5 CROSS SECTION THRU STAIR- OUTER RAIL

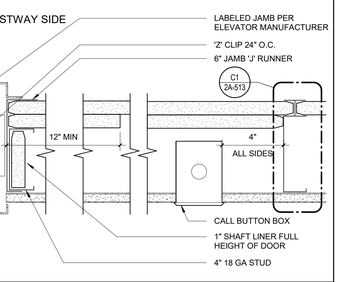
C4 / 2A-422 | 1" = 1'-0"



UL ASSEMBLY U415

C1 ELEVATOR- HOISTWAY FRAMING

B3 / 2A-513 | 3/8" = 1'-0"

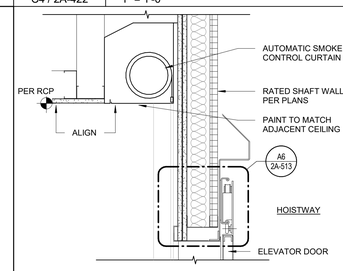


C3 WALL MOUNTED HANDRAIL

1 1/2" = 1'-0"

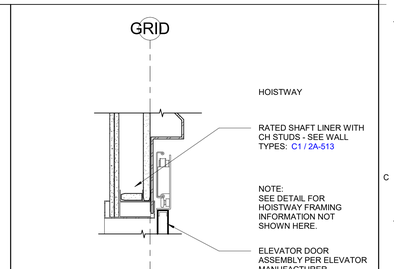
C4 WALL MOUNTED HANDRAIL RETURN

B4 / 2A-422 | 1 1/2" = 1'-0"



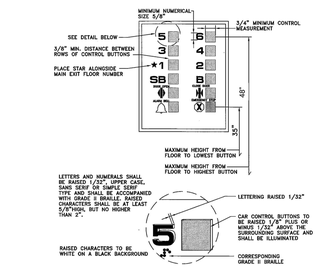
C5 SMOKE CURTAIN DETAIL

B1 / 2A-162 | 1 1/2" = 1'-0"



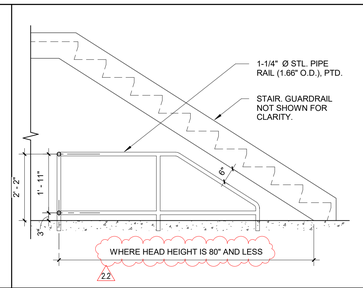
A6 ELEVATOR THRESHOLDS & HEADER

A3 / 2A-428 | 1 1/2" = 1'-0"



B1 ELEVATOR - CONTROLS

A1 / 2A-513 | 1" = 1'-0"

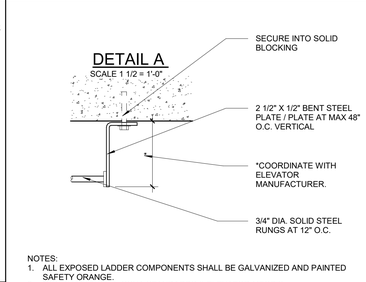


B2 CANE RAIL

B2 / 2A-423 | 1/2" = 1'-0"

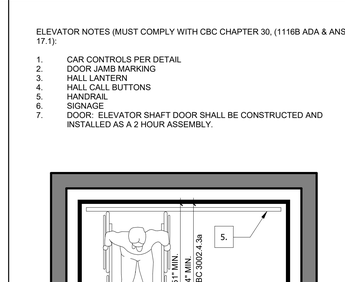
B3 ELEVATOR DOOR JAMB

3" = 1'-0"



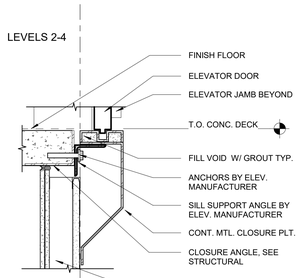
A4 ELEVATOR LADDER @ PIT

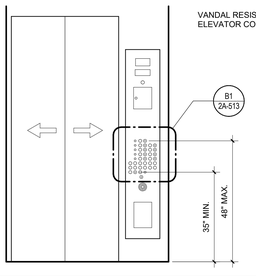
A3 / 2A-428 | 1/2" = 1'-0"



A5 ELEVATOR- CAB DIMENSIONS

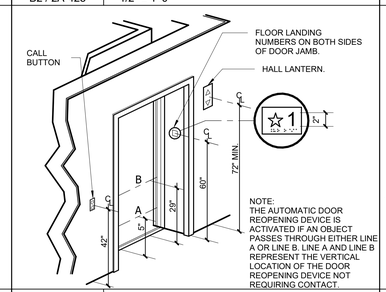
1/2" = 1'-0"





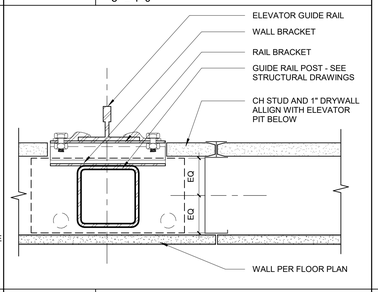
A1 ELEVATOR - CONTROLS AND PHONE

1/2" = 1'-0"



A2 ELEVATOR- ENTRANCES

12" = 1'-0"



A3 ELEVATOR POST DETAIL

C5 / 2A-428 | 3" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title

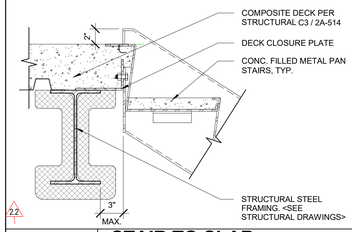
STAIR AND ELEVATOR DETAILS

Sheet No.

2A-513

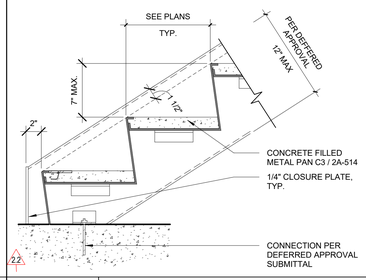
DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

1/23/2018 8:54:01 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT



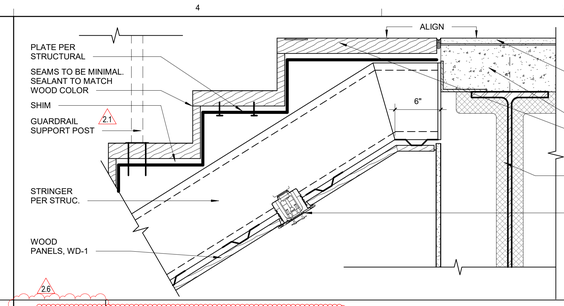
E2 STAIR TO SLAB CONNECTION

B2 / 2A-423 | 1 1/2" = 1'-0"



E3 BOTTOM OF STAIR

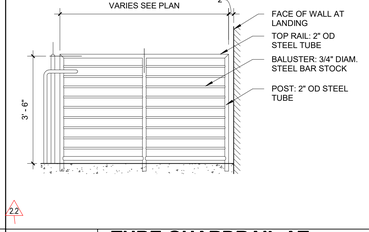
D5 / 2A-513 | 1 1/2" = 1'-0"



E4 STAIR LANDING DETAIL

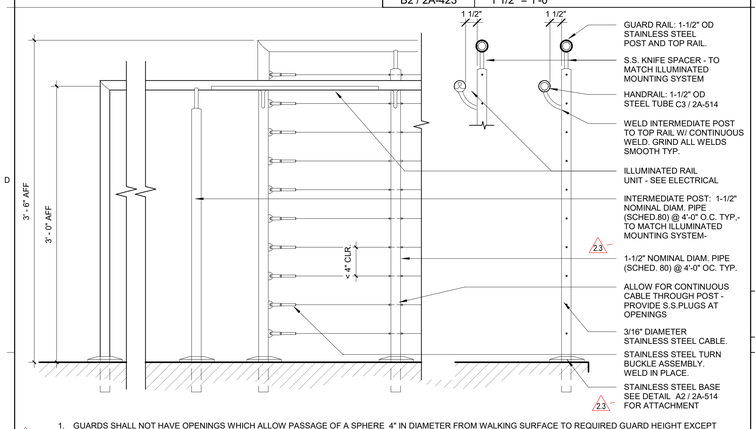
RFI 2-00035 Stair 1, 7, and 8 Framing Clarifications

C2 / 2A-421 | 1 1/2" = 1'-0"



E6 TUBE GUARDRAIL AT LANDING ELEVATION

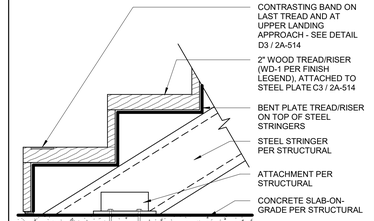
D4 / 2A-422 | 1/2" = 1'-0"



1. GUARDS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER FROM WALKING SURFACE TO REQUIRED GUARD HEIGHT EXCEPT FROM A HEIGHT OF 36 "TO 42", EXCEPT AS ALLOWED BY SECTION 1015.4.
2. ALL STAINLESS STEEL TO MATCH: #No. 4 POLISHED 304 S.S.

C1 INTERIOR POST AND CABLE RAILING

1 1/2" = 1'-0"

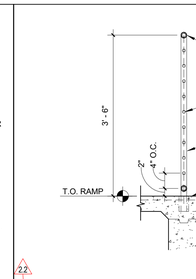


D3 CONTRASTING BAND AT ATRIUM STAIR

B5 / 2A-514 | 3" = 1'-0"

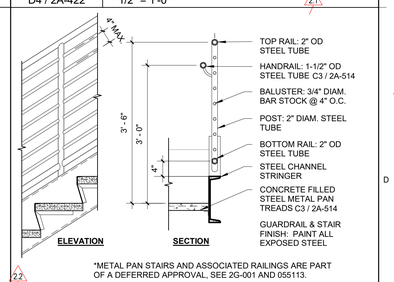
D4 WOOD STAIR DETAIL @ CONCRETE

C2 / 2A-421 | 1 1/2" = 1'-0"



D5 TUBE GUARDRAIL SECTION - LANDING

3/4" = 1'-0"



*METAL PAN STAIRS AND ASSOCIATED RAILINGS ARE PART OF A DEFERRED APPROVAL, SEE 2G-001 AND 055113.

D6 INTERIOR TUBE GUARDRAIL - STRINGER

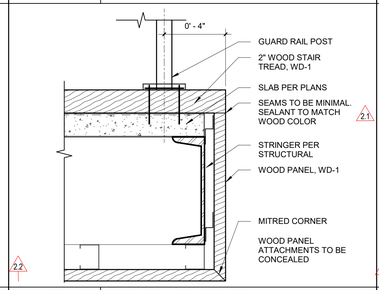
D4 / 2A-422 | 3/4" = 1'-0"

GENERAL STAIR NOTES.
1. TREAD SURFACE TO BE STABLE, FIRM AND SLIP RESISTANCE AND HAVE A SLOPE NOT STEEPER THAN 1:48 (2.083%). (CBC, SEC. 11B-504.4).

GENERAL HANDRAIL NOTES:
1. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES
2. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
3. HANDRAIL EXTENSIONS AT TOP AND BOTTOM OF A STAIR FLIGHT SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT

C3 STAIR AND RAILING GENERAL NOTES

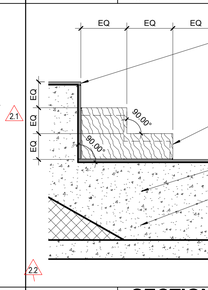
3" = 1'-0"



C4 EDGE OF STAIR

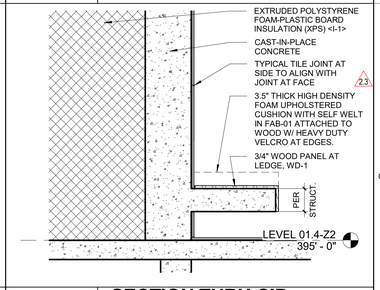
RFI 2-00035 Stair 1, 7, and 8 Framing Clarifications

C4 / 2A-421 | 3" = 1'-0"



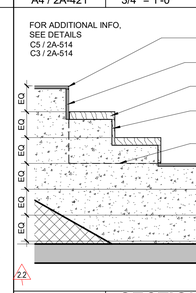
C5 SECTION THROUGH CIP BLEACHERS

A4 / 2A-421 | 3/4" = 1'-0"



C6 SECTION THRU CIP CANTILEVER

A2 / 2A-421 | 3/4" = 1'-0"



A4 E.O.D. @ STAIR 2

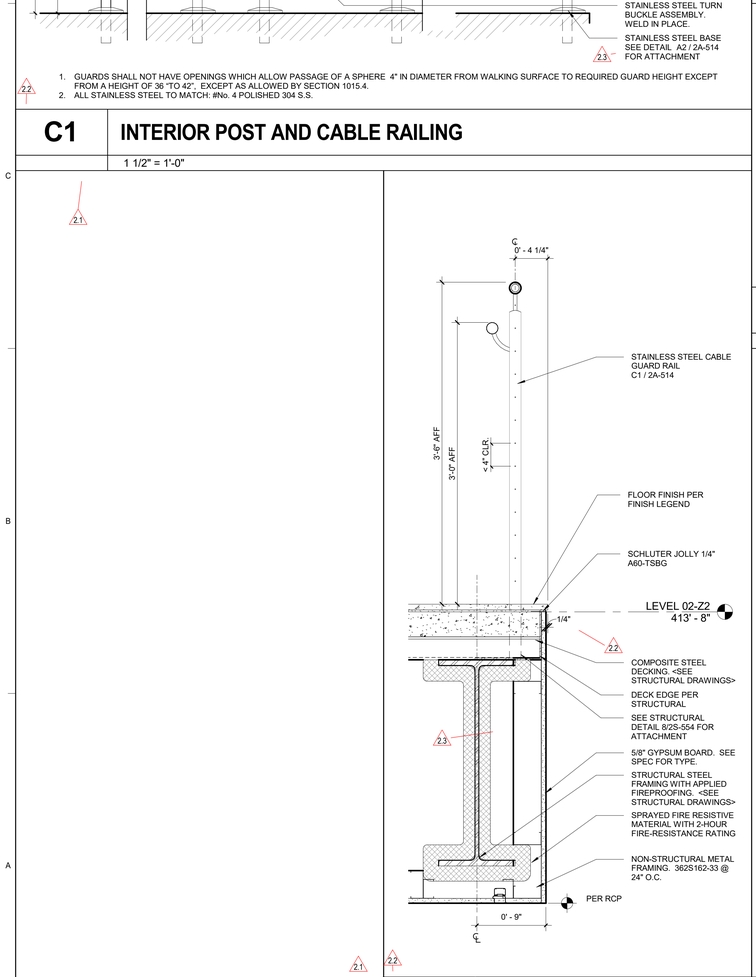
A3 / 2A-422 | 1 1/2" = 1'-0"

B5 SECTION THROUGH CIP STEPS

A4 / 2A-421 | 3/4" = 1'-0"

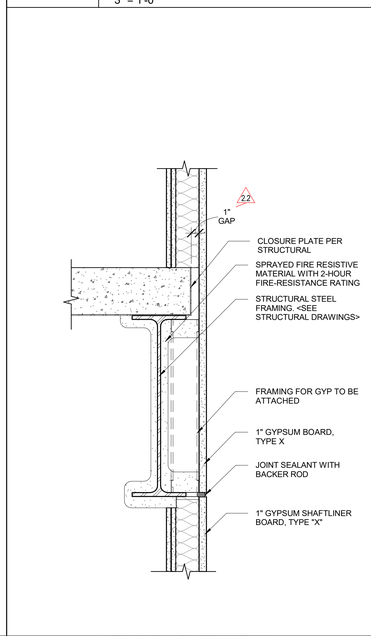
B6 SECTION THRU CIP STEP AND CANTILEVER

A4 / 2A-421 | 3/4" = 1'-0"



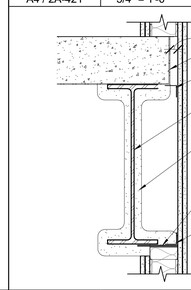
A2 EDGE OF BRIDGE DETAIL

B1 / 2A-132 | 1 1/2" = 1'-0"



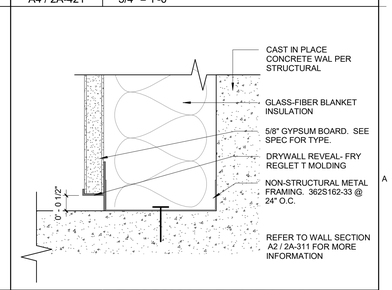
A3 E.O.D. @ STAIR & ELEVATOR

A1 / 2A-422 | 1 1/2" = 1'-0"



A5 E.O.D. @ STAIR 5

A1 / 2A-425 | 1 1/2" = 1'-0"



A6 DRYWALL REVEAL AT CONCRETE

A2 / 2A-421 | 6" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
STAIR AND ELEVATOR DETAILS

Sheet No.
2A-514

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

8/8/2017 10:50:17 AM
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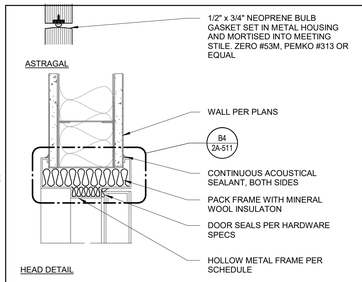
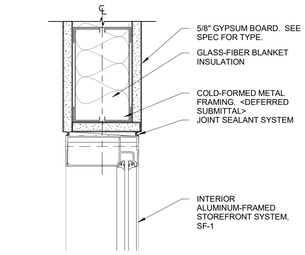
THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



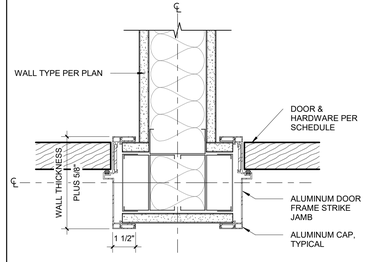
D1 INTERIOR HOLLOW METAL DOOR JAMB/HEAD DETAIL

3" = 1'-0"



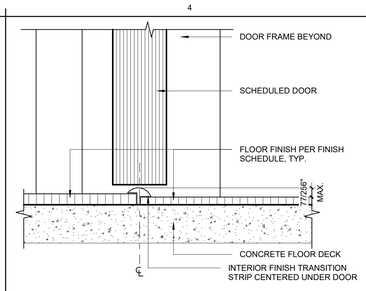
E2 INTERIOR STOREFRONT HEADER DETAIL

A5 / 2A-611 — 3" = 1'-0"



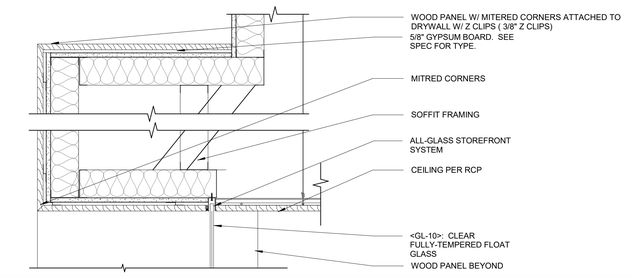
E3 INTERIOR STOREFRONT DOOR JAMB DETAIL

3" = 1'-0"



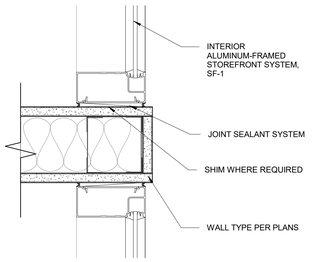
E4 DOOR THRESHOLD 5

6" = 1'-0"



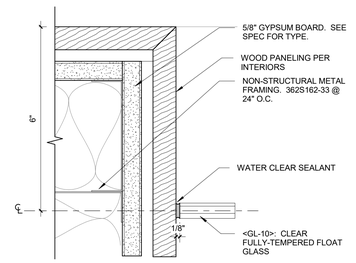
E5 WOOD SOFFIT @ CONFERENCE ROOM

A3 / 2A-320 — 1 1/2" = 1'-0"



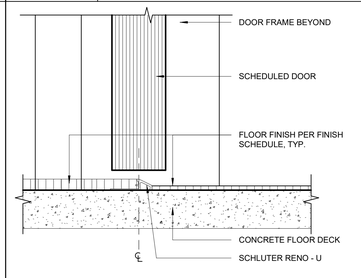
D2 DETAIL @ INTERIOR STOREFRONT WALL

3" = 1'-0"



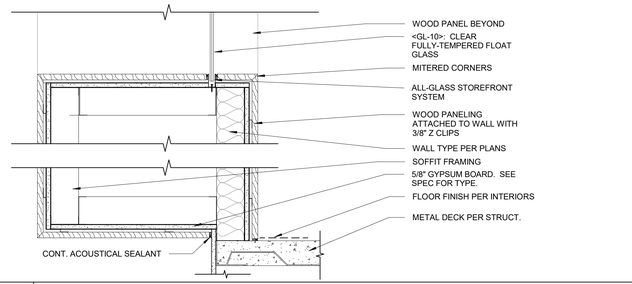
D3 CONF. ROOM GLAZING DETAIL @ JAMB

6" = 1'-0"



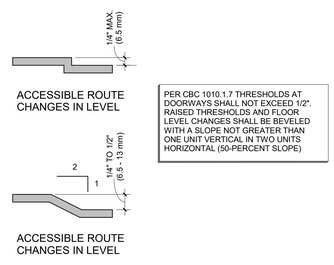
D4 DOOR THRESHOLD 4

6" = 1'-0"



D5 WOOD LEDGE @ CONFERENCE ROOM

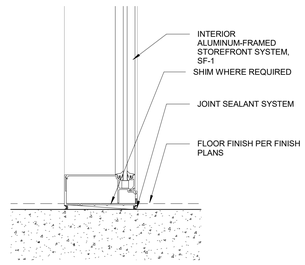
A3 / 2A-320 — 1 1/2" = 1'-0"



PER CBC 1010.1.7 THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2". RAISED THRESHOLDS AND FLOOR LEVEL CHANGES SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL (50-PERCENT SLOPE)

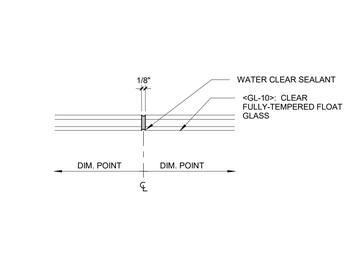
C1 ADA DOOR THRESHOLD

6" = 1'-0"



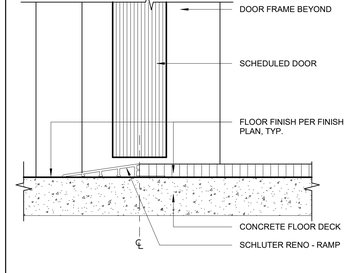
C2 INTERIOR STOREFRONT SILL DETAIL

3" = 1'-0"



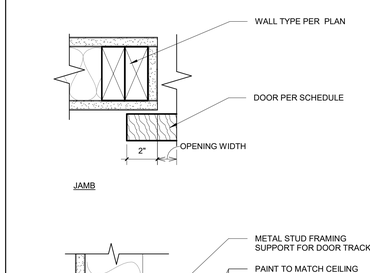
C3 INTERIOR GLAZING- JOINT DETAIL

6" = 1'-0"



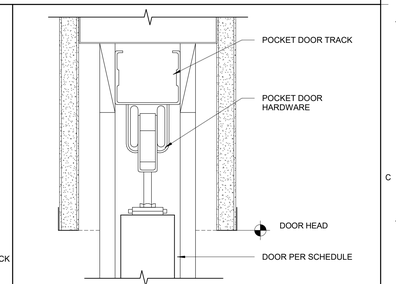
C4 DOOR THRESHOLD 3

6" = 1'-0"



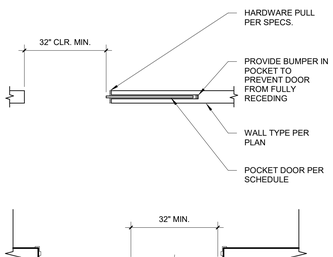
B5 SERVERY SLIDING PANEL

3" = 1'-0"



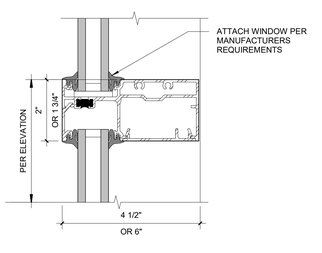
C6 POCKET DOOR HEAD DETAIL

6" = 1'-0"



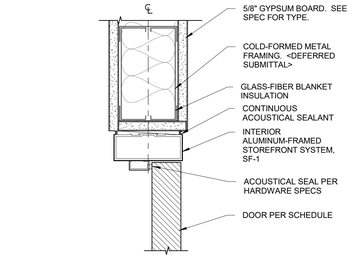
A1 DOOR CLEARANCES

1/2" = 1'-0"



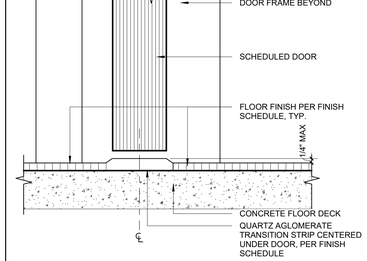
B2 STOREFRONT- HZ MULLION

6" = 1'-0"



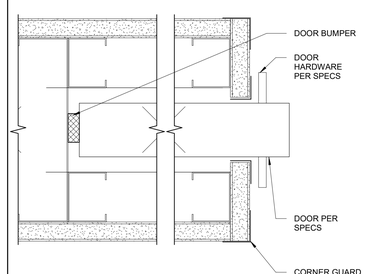
B3 DOOR HEADER @ STOREFRONT

3" = 1'-0"



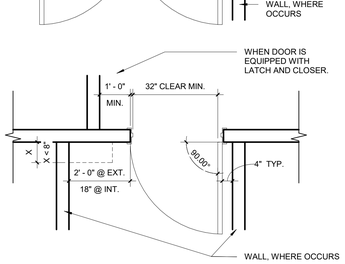
B4 DOOR THRESHOLD 2

6" = 1'-0"



B6 POCKET DOOR JAMB DETAIL

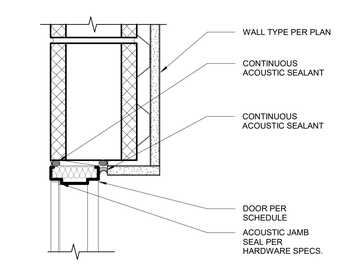
6" = 1'-0"



GENERAL NOTES:
IF CONDITIONS REQUIRE DIFFERENT MOUNTING THAN SHOWN, VERY WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

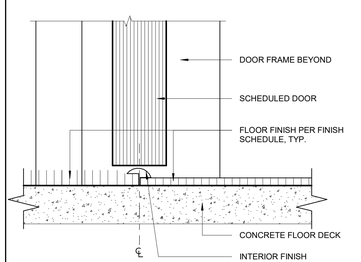
A2 TYP. CONTROL / SWITCH LOCATION AT DOOR

3/8" = 1'-0"



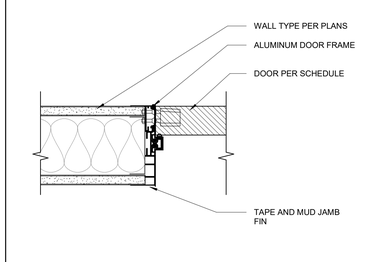
A3 HM DOOR-HEADER @ CMU WALL

3" = 1'-0"



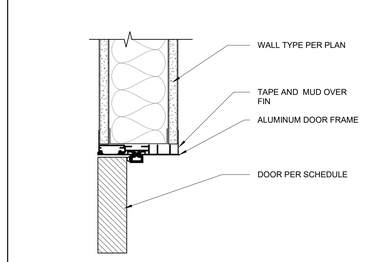
A4 DOOR THRESHOLD 1

6" = 1'-0"



A5 JAMB @ FRAMELESS DOOR

3" = 1'-0"



A6 HEADER @ FRAMELESS DOOR

3" = 1'-0"

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET

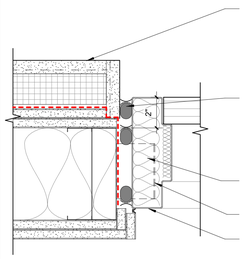
CITY SUBMITTAL SET
08.08.17

Sheet Title
INTERIOR DOOR & WINDOW DETAILS

Sheet No.
2A-521

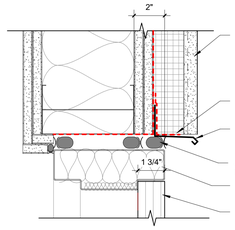
DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

10/2/2017 3:59:32 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT, NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED



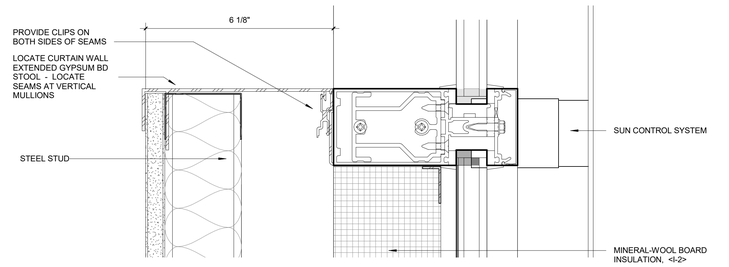
E1 HM DOOR-JAMB @ EXTERIOR - 2HR FRR

3" = 1'-0"



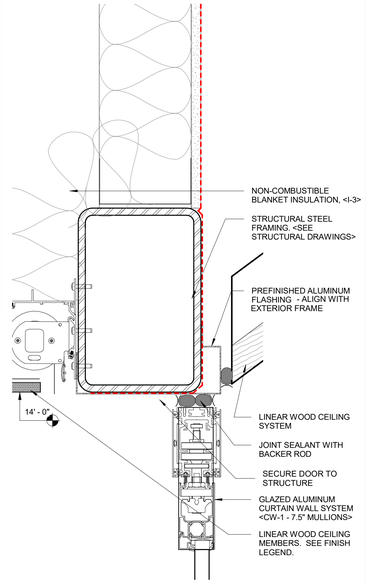
E2 HM DOOR-HEADER @ EXTERIOR-2HR FRR

3" = 1'-0"



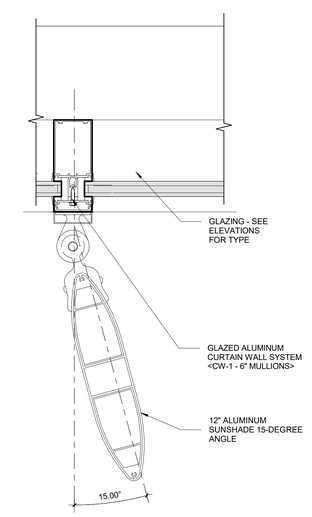
D1 INTERIOR SILL - CURTAIN WALL STOOL SHELF TYP.

D1 / 2A-208 | 6" = 1'-0"



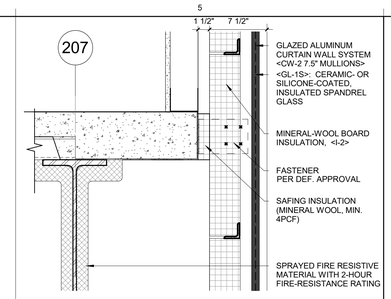
D3 FOLDING DOOR HEADER

D5 / 2A-208 | 3" = 1'-0"



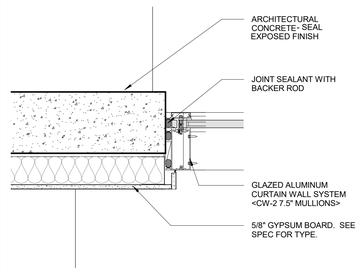
D4 PLAN - SUN CONTROL SYSTEM @ VISION

D1 / 2A-208 | 3" = 1'-0"



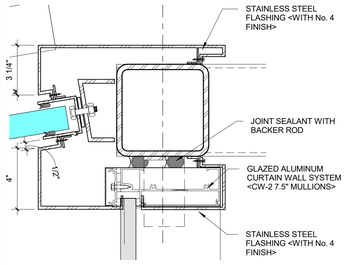
E5 CURTAIN WALL @ E.O.D.

B2 / 2A-314 | 1 1/2" = 1'-0"



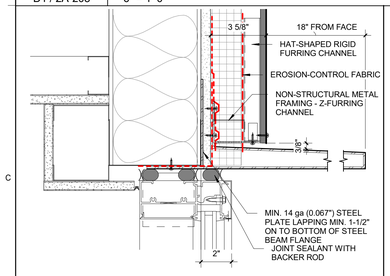
E6 CURTAIN WALL-JAMB @ CIP WALL

1 1/2" = 1'-0"



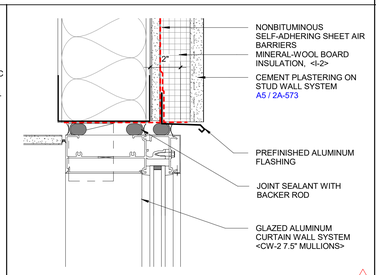
D6 CURTAIN WALL-HEADER @ STRUCTURAL GLASS

B4 / 2A-571 | 3" = 1'-0"



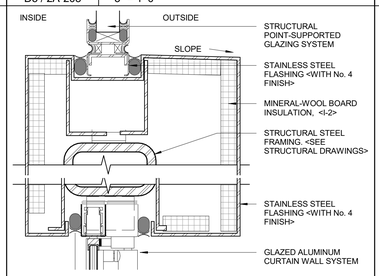
C1 CURTAIN WALL-HEADER @ SUN SHADE

D1 / 2A-208 | 3" = 1'-0"



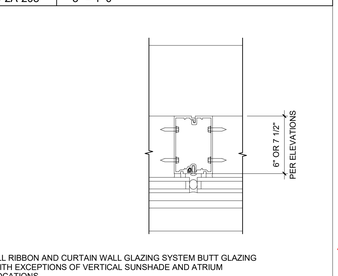
C2 CURTAIN WALL-HEADER @ PLASTER

D3 / 2A-208 | 3" = 1'-0"



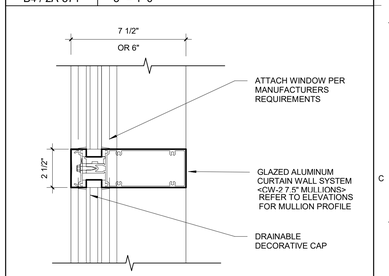
C3 ALUMINUM DOOR-HEADER @ PORTAL

D4 / 2A-208 | 3" = 1'-0"



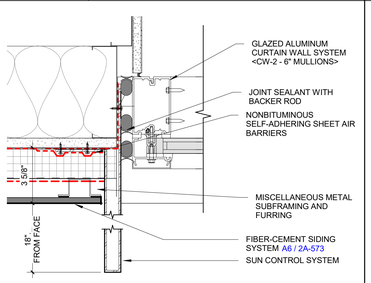
C4 PLAN - BUTT GLAZING

B3 / 2A-208 | 3" = 1'-0"



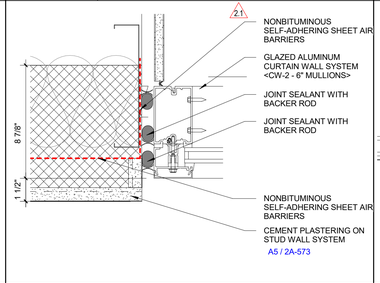
C6 CURTAIN WALL-HZ MULLION, TYP.

B3 / 2A-208 | 3" = 1'-0"



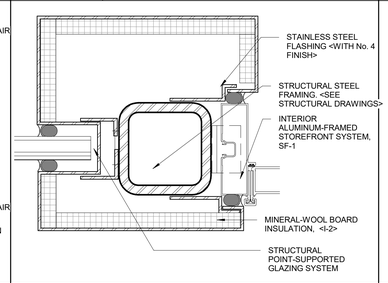
B1 CURTAIN WALL-JAMB @ SUN SHADE

D1 / 2A-208 | 3" = 1'-0"



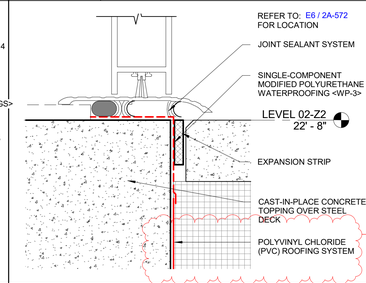
B2 CURTAIN WALL-JAMB @ PLASTER WALL

D3 / 2A-208 | 3" = 1'-0"



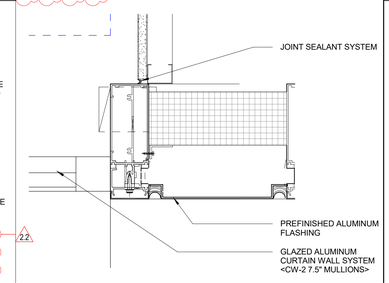
B3 ALUMINUM DOOR-JAMB @ STRUCT. GLASS

D4 / 2A-208 | 3" = 1'-0"



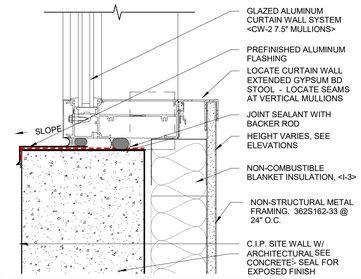
B4 ALUMINUM DOOR-SILL @ GREEN ROOF

B3 / 2A-208 | 6" = 1'-0"



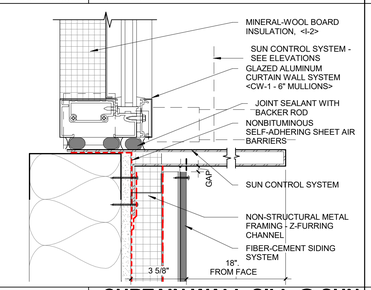
B5 PLAN - FOLDING DOOR / C.W. JAMB

D5 / 2A-208 | 3" = 1'-0"



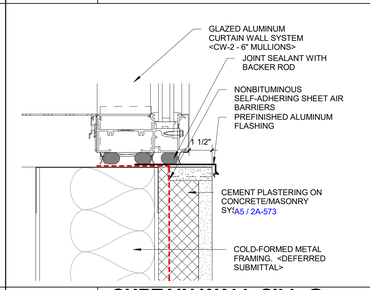
B6 CURTAIN WALL-SILL @ CIP WALL

A5 / 2A-209 | 3" = 1'-0"



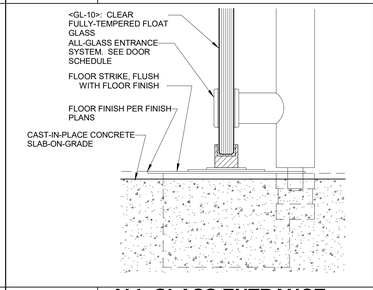
A1 CURTAIN WALL-SILL @ SUN SHADE

D1 / 2A-208 | 3" = 1'-0"



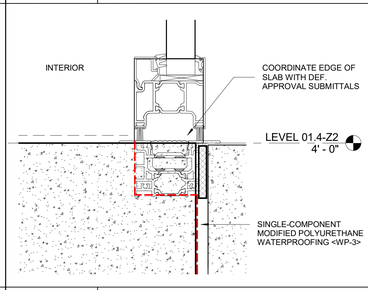
A2 CURTAIN WALL-SILL @ PLASTER WALL

D3 / 2A-208 | 3" = 1'-0"



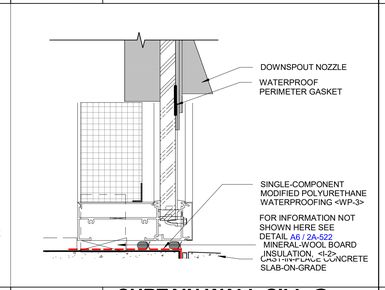
A3 ALL GLASS ENTRANCE SILL DETAIL

D4 / 2A-208 | 6" = 1'-0"



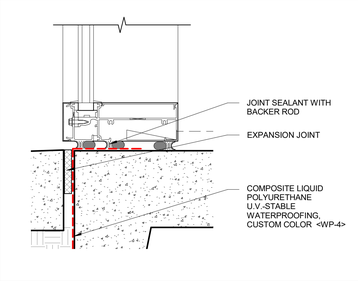
A4 FOLDING DOOR SILL

D5 / 2A-208 | 6" = 1'-0"



A5 CURTAIN WALL-SILL @ DOWNSPOUT

D5 / 2A-208 | 3" = 1'-0"



A6 CURTAIN WALL-SILL @ GRADE

B3 / 2A-208 | 3" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
DOOR & WINDOW DETAILS

Sheet No.
2A-522

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

10/2/2017 3:39:38 PM
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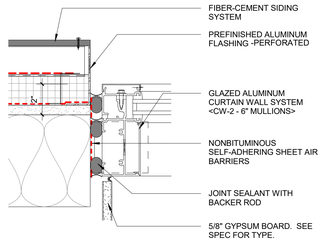
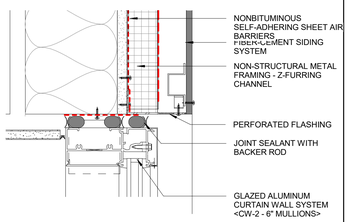


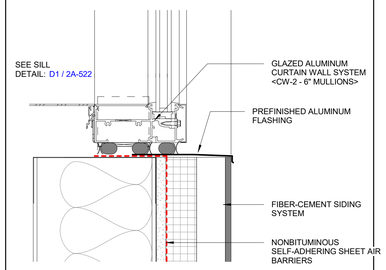
E2 RIBBON WINDOW & FCS - JAMB

D2 / 2A-208 | 3" = 1'-0"



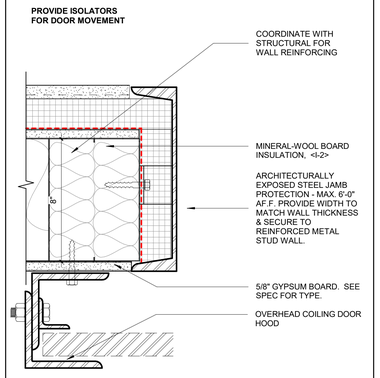
D2 RIBBON WINDOW & FCS - HEADER

D2 / 2A-208 | 3" = 1'-0"



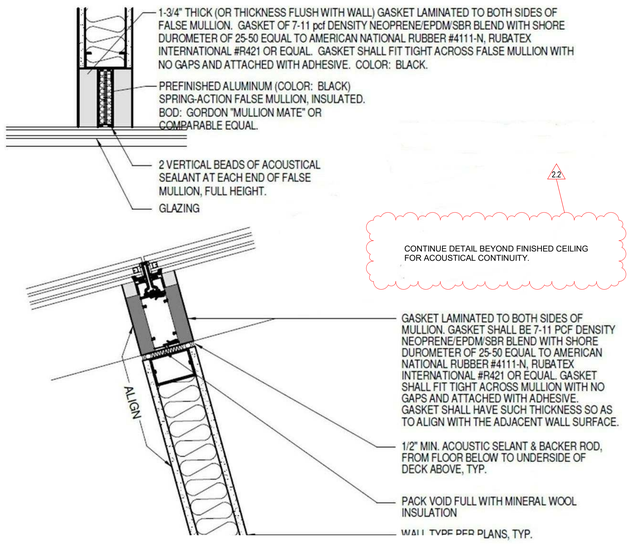
C2 RIBBON WINDOW & FCS - SILL

D2 / 2A-208 | 3" = 1'-0"



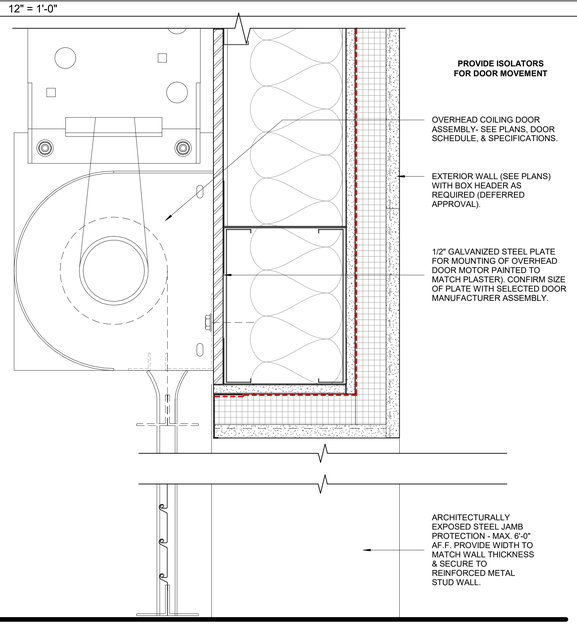
A2 OVER HEAD ROLL-UP DOOR JAMB

A1 / 2A-112 | 3" = 1'-0"



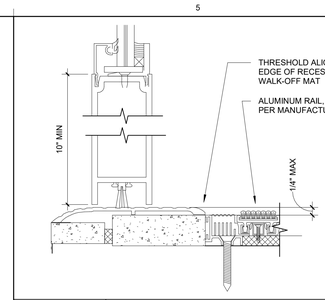
C3 WALL TERMINATION @ CURTAIN WALL

B1 / 2A-122 | 12" = 1'-0"



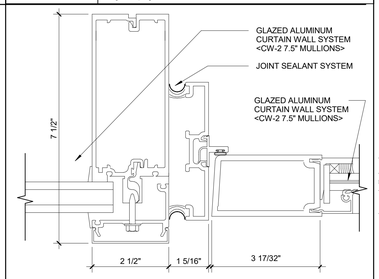
A3 OVER HEAD DOOR HEAD DETAIL

D2 / 2A-315 | 3" = 1'-0"



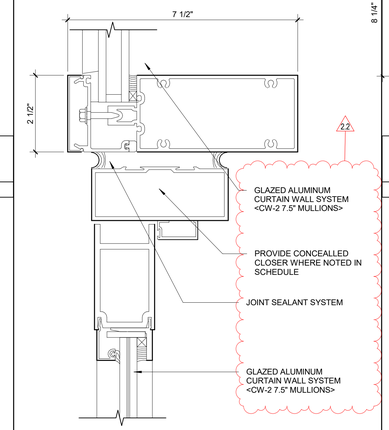
E5 WALK OFF MAT AT DOOR

6" = 1'-0"



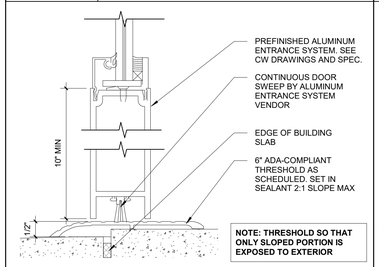
D5 ALUMINUM DOOR JAMB

6" = 1'-0"



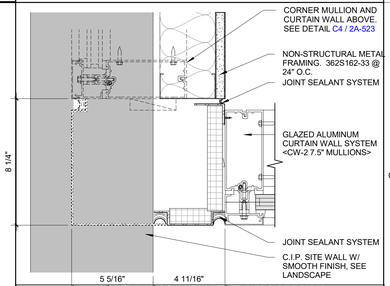
B5 ALUMINUM DOOR HEAD

B3 / 2A-208 | 6" = 1'-0"



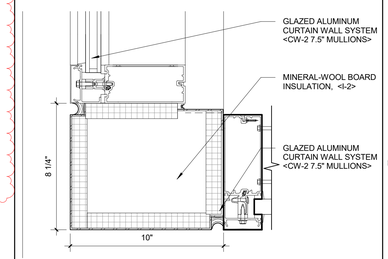
A5 ALUMINUM DOOR SILL, TYP.

A4 / 2A-571 | 6" = 1'-0"



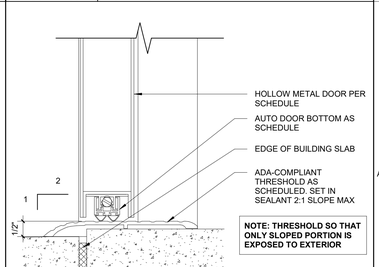
D4 PLAN - CURTAIN WALL CORNER /CONCRETE JAMB

A1 / 2A-112 | 3" = 1'-0"



C4 PLAN - CURTAIN WALL CORNER JAMB

B3 / 2A-208 | 3" = 1'-0"



A6 HM DOOR SILL, TYP.

6" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
DOOR & WINDOW DETAILS

Sheet No.
2A-523

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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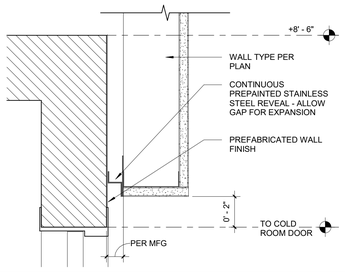
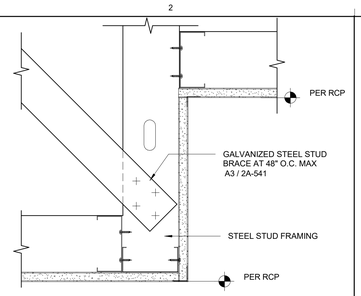
11/7/2017 1:20:45 PM



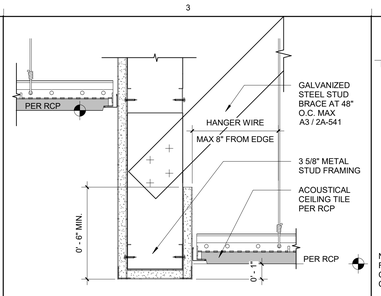
E1 BULK HEAD @ COLD ROOM

B1 / 2A-162 | 3" = 1'-0"



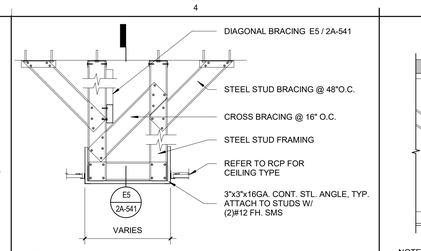
E2 CEILING TRANSITION - GYP BD TO GYP BD

3" = 1'-0"



E3 CEILING TRANSITION

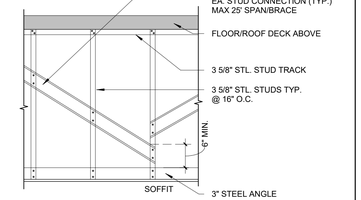
B1 / 2A-162 | 3" = 1'-0"



NOTES:
REFER TO REFLECTED CEILING PLAN FOR CEILING AND SOFFIT HEIGHTS.
CONNECTIONS BETWEEN BRACING AND FRAMING TO BE (4)#12 SMS PER CONNECTION.

E4 CEILING SOFFIT CROSSBRACING

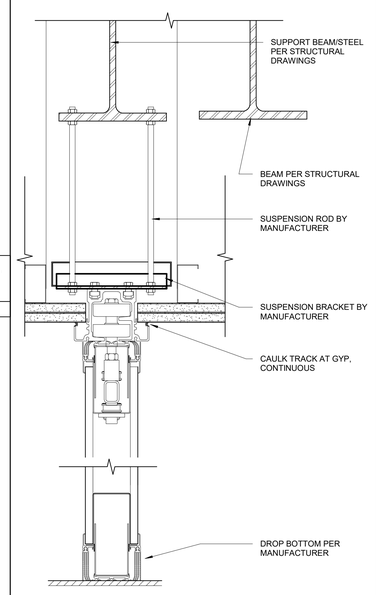
1" = 1'-0"



NOTES:
REFER TO REFLECTED CEILING PLAN FOR SCHEDULED CEILING AND SOFFIT HEIGHTS.
CROSS BRACING NOT SHOWN FOR CLARITY

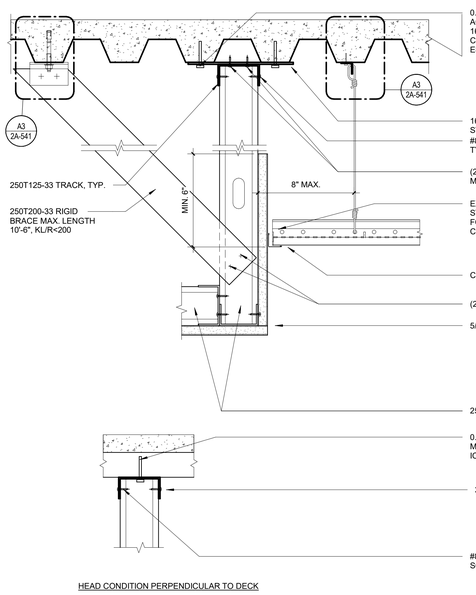
E5 CEILING SOFFIT DIAGONAL BRACING

E4 / 2A-541 | 3/4" = 1'-0"



E6 OPERABLE PARTITION

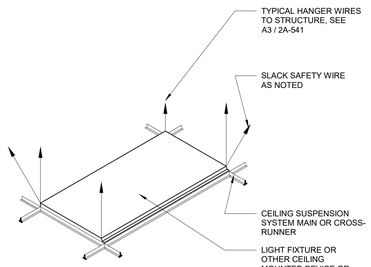
B1 / 2A-162 | 3" = 1'-0"



HEAD CONDITION PERPENDICULAR TO DECK

C1 CEILING TRANSITION

B1 / 2A-172 | 3" = 1'-0"



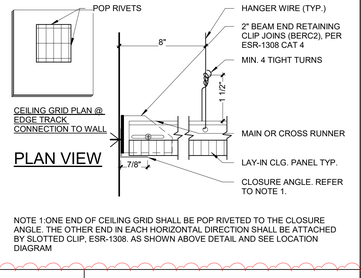
C3 FIXTURE SUPPORT

12" = 1'-0"

1. LIGHT FIXTURES:
   A. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.
   B. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
   C. LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
   D. LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE FOUR (4) TAUT #12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
2. SERVICES WITHIN THE CEILING:
   A.ALL FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE COMPONENT. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
   B.FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED TO THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
   C.FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
   D.FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT # 12 GAGE WIRES ATTACHED TO THE TERMINAL OR SERVICE AND TO THE STRUCTURE ABOVE. THE FOUR (4) TAUT #12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
3. OTHER DEVICES WITHIN THE CEILING: ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER ITEM 2A ABOVE. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER ITEM 1B ABOVE. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER ITEM 2D ABOVE.
4. LATERAL FORCE BRACING MEMBERS SHALL BE A MINIMUM OF 6" CLEAR FROM ALL HORIZONTAL PIPING OR DUCT WORK NOT PROVIDED WITH BRACING WIRE RESTRAINTS FOR HORIZONTAL FORCES. BRACING WIRES SHALL SUPPORT A DESIGN LOAD OF THE GREATER OF 200 POUNDS OR THE ACTUAL LOAD, WITH A SAFETY FACTOR OF TWO (2X).
5. PROVIDE PERIMETER VERTICAL SUPPORT WIRES AT 8" MAXIMUM AWAY FROM FACE OF WALL.
6. SEE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.

C5 EDGE DETAIL

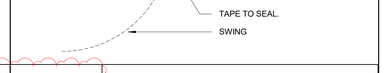
6" = 1'-0"

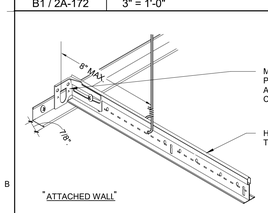


NOTE 1:ONE END OF CEILING GRID SHALL BE POP RIVETED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL BE ATTACHED BY SLOTTED CLIP, ESR-1308. AS SHOWN ABOVE DETAIL AND SEE LOCATION DIAGRAM

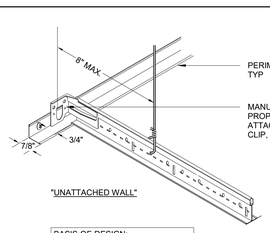
C6 DRYWALL ACCESS PANEL

12" = 1'-0"





"ATTACHED WALL"

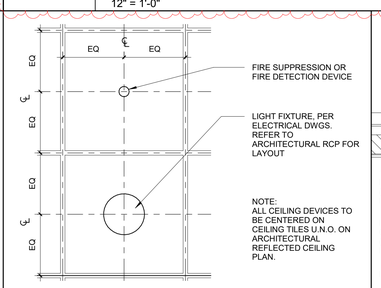


"UNATTACHED WALL"

BASIS-OF-DESIGN:
PRODUCT/SYSTEM IS COMPLIANT WITH ICC-ESR-1308 FOR SEISMIC DESIGN CATEGORY "D."

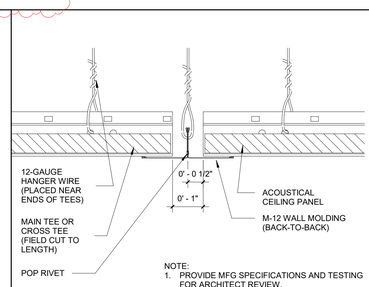
B1 CEILING SUSPENSION SYSTEM EDGE CONDITION

3" = 1'-0"



B3 TYP. LAYING RCP

1" = 1'-0"

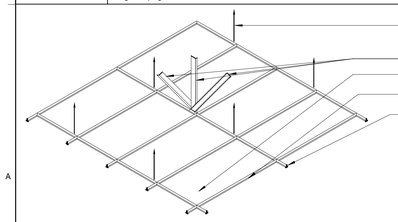


NOTE:
1. PROVIDE MFG SPECIFICATIONS AND TESTING FOR ARCHITECT REVIEW.

B4 SUSPENDED CEILING SEISMIC CONNECTION

2.2

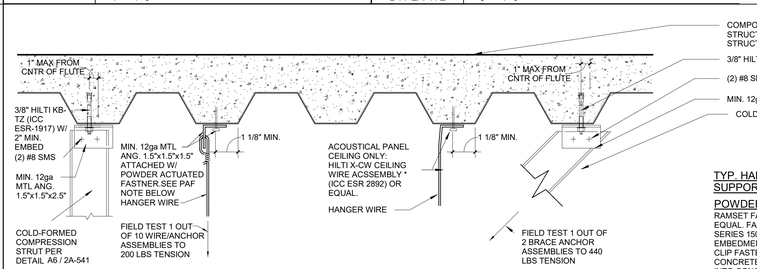
B1 / 2A-172 | 6" = 1'-0"



ITEM	5/8" GYP. BD.	ACOUSTICAL PANEL CLG.
MAIN RUNNER	1-1/2" CRC - 16 GA. @ 48" O.C. MAX	"HEAVY DUTY" PER ASTM C635
CROSS RUNNER	7/8" HAT CHANNEL- 25 GA. @ 16" O.C.	"HEAVY DUTY" PER ASTM C635
GALV. HANGER WIRES (EA. WAY)	#8 GA. @ 4'-0" O.C.	#12 GA. @ 4'-0" O.C.
RIGID BRACING & COMP. STRUT	PER A6 / 2A-541 @ 12'-0" O.C. EA. WAY	PER A6 / 2A-541 @ 12'-0" O.C. EA. WAY
REMARKS		

A1 CEILING SUSPENSION

12" = 1'-0"



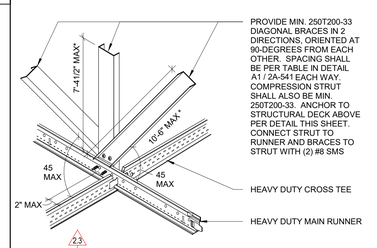
TYP. HANGER WIRE & METAL STUD ATTACHMENTS FOR CEILING SUPPORTS

POWDER ACTUATED FASTENERS: (PAF)

RAMSET FASTENERS INSTALLED W/ POWDER ACTUATED TOOL, ICC ESR-1799 OR EQUAL. FASTENERS SHALL BE RAMSET LOW-VELOCITY FASTENERS (PART NUMBER SERIES 1500, NOMINAL SHANK DIAMETER 0.145", SMOOTH-STRAIGHT SHANK). MINIMUM EMBEDMENT DEPTH IN CONCRETE = 1-1/2". ICC ALLOWABLE LOADS FOR FOR ANGLE CLIP FASTENERS INSTALLED IN MINIMUM 3000 PSI STRUCTURAL LIGHTWEIGHT CONCRETE WITH FASTENER INSTALLED THROUGH LOWER FLUTE OR METAL DECK INTO CONCRETE (TABLE 2, PAGE 3, ICC #1799): TENSION = 233 LBS, SHEAR = 346 LBS. THIS EXCEEDS THE 209lbs. ALLOWABLE LOAD FOR #12 WIRE PER DSA IR 25-1.

A3 ATTACHMENTS FOR CLNG. SUPPORTS

C1 / 2A-541 | 12" = 1'-0"



*MAX LENGTH OF COMPRESSION STRUT & BRACES: CHECK KL/R<200 FOR 250T200-33: K=1.0, L=10'-6"= 126", R=0.658 (PER SSMA) (1.0)(126) / (0.658) = 191 < 200 O.K.

A6 CLG - RIGID SUSPEND. GRID BRACING

1/2" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
CEILING DETAILS

Sheet No.
2A-541

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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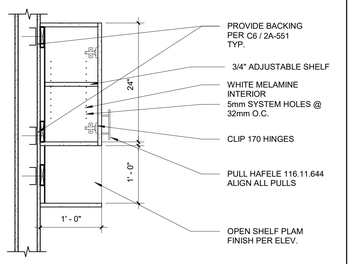
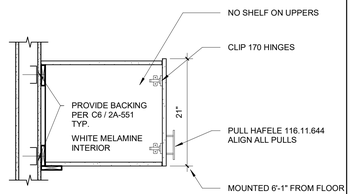


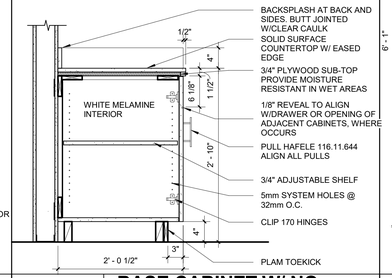
E3 UPPER CABINETS WITH CUBBIES

1" = 1'-0"



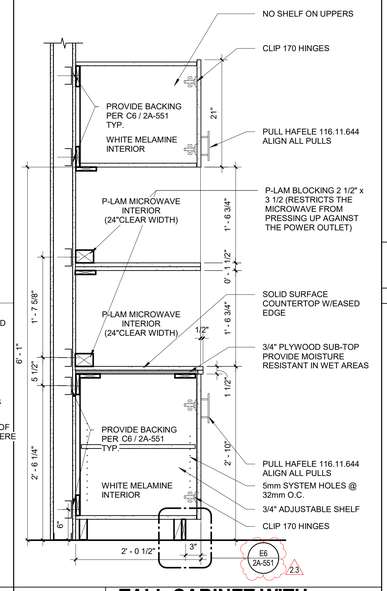
D3 UPPER CABINETS ABOVE FRIDGE

1" = 1'-0"



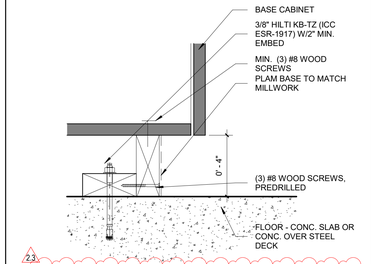
D4 BASE CABINET W/ NO DRAWERS

1" = 1'-0"



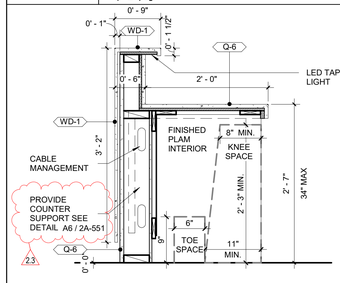
D5 TALL CABINET WITH MICROWAVE ABOVE

1" = 1'-0"



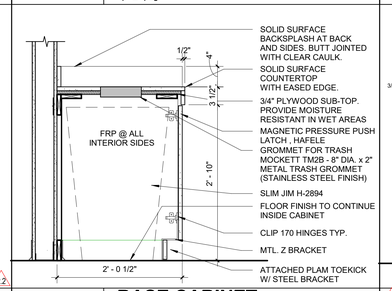
E6 CASEWORK FRONT ANCHORAGE

D5 / 2A-551 | 3" = 1'-0"



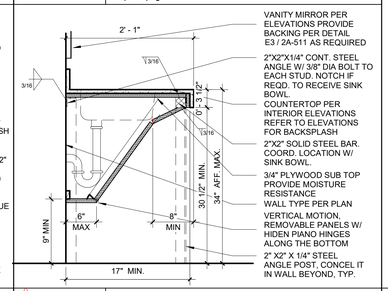
C3 RECEPTION DESK

B1 / 2I-401 | 1" = 1'-0"



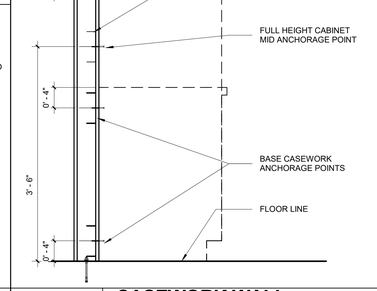
C4 BASE CABINET @ TRASH

A1 / 2I-403 | 1" = 1'-0"



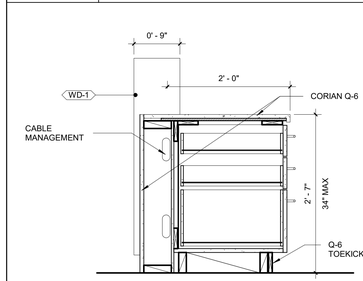
C5 RESTROOM VANITY DETAIL

C3 / 2A-410 | 1" = 1'-0"



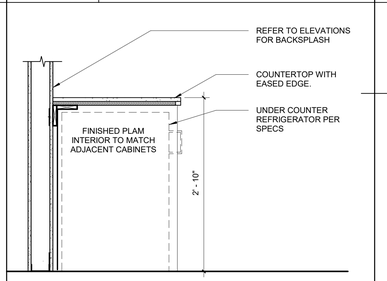
C6 CASEWORK WALL ANCHORAGE

A3 / 2A-410 | 1" = 1'-0"



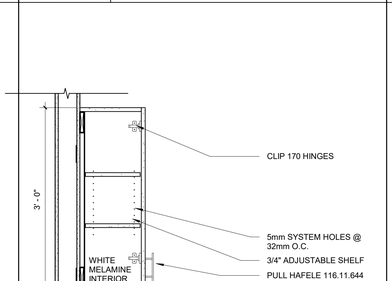
B3 BASE CABINET @ RECEPTION DESK

B1 / 2I-401 | 1" = 1'-0"



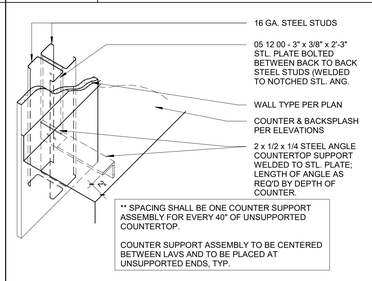
B4 BASE CABINET @ UNDER COUNTER REFRIGERATOR

1" = 1'-0"



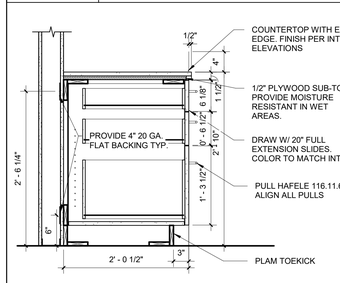
B5 TYPICAL UPPER AND BASE CABINET

1" = 1'-0"



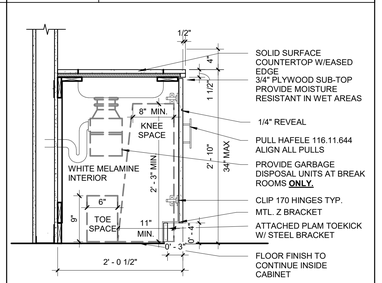
B6 COUNTER SUPPORT

1 1/2" = 1'-0"



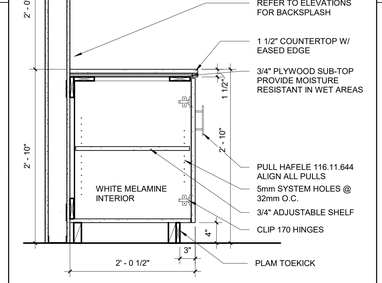
A3 BASE CABINET w/THREE DRAWER

1" = 1'-0"



A4 BASE CABINET W/ INTEGRATED TOEKICK

1" = 1'-0"



A5 TYPICAL UPPER AND BASE CABINET

1" = 1'-0"

A6 COUNTERTOP SUPPORT

A1 / 2A-320 | 1" = 1'-0"

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
B 2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

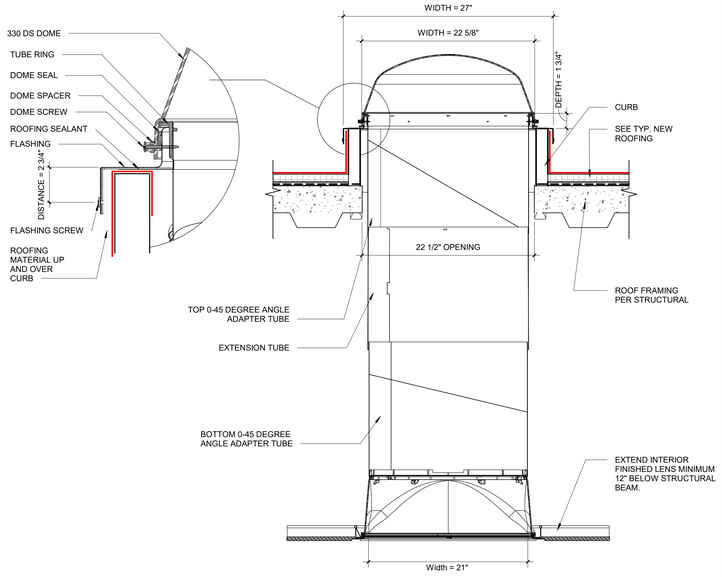
CITY SUBMITTAL SET
08.08.17

Sheet Title
CASEWORK DETAILS

Sheet No.
2A-551

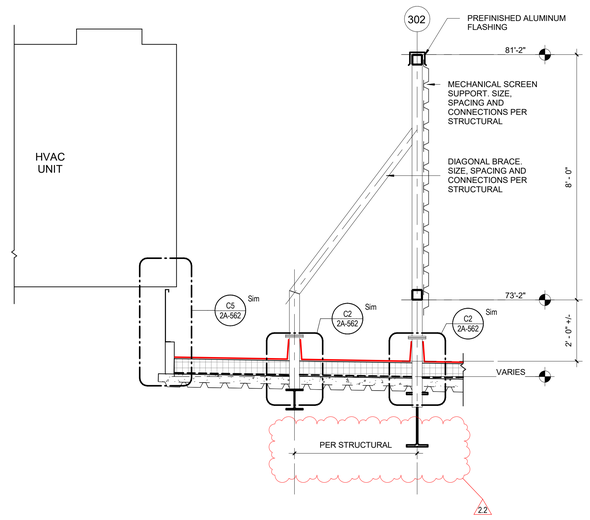
DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 3:39:54 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



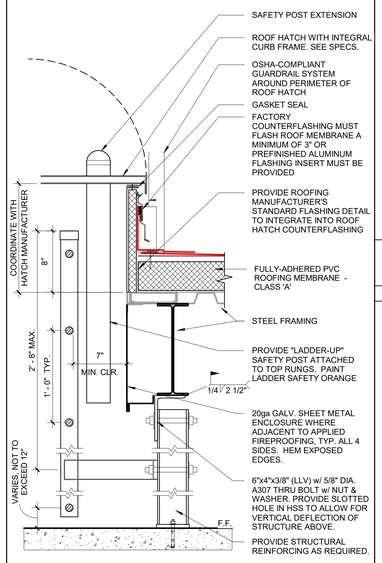
C1 ROOF- TUBULAR UNIT SKYLIGHTS

B1 / 2A-122 | 1 1/2" = 1'-0"



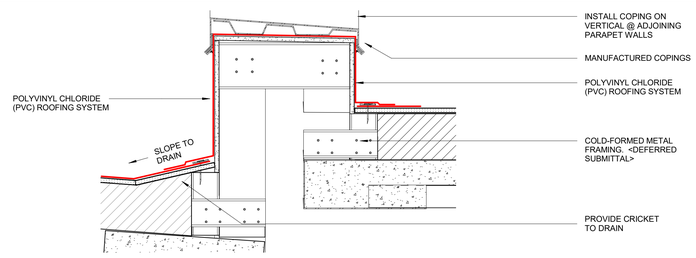
A1 ROOF- EQUIPMENT SCREEN

B1 / 2A-152 | 1/2" = 1'-0"



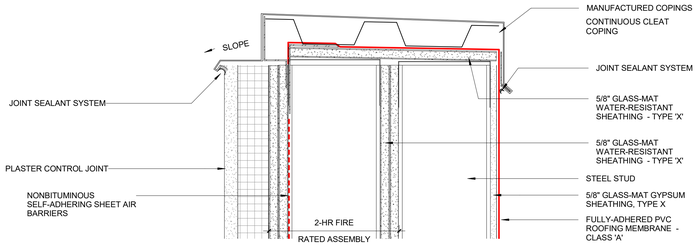
A3 ROOF HATCH SECTION

B1 / 2A-152 | 1 1/2" = 1'-0"



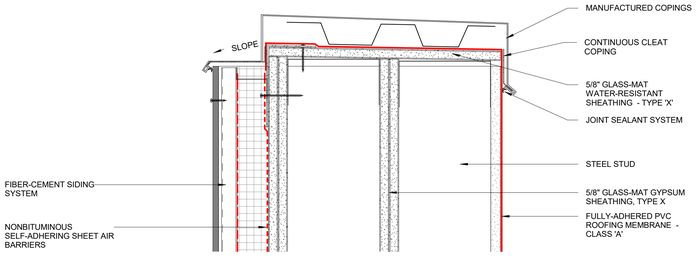
E4 SPLIT ROOF PARAPET

B1 / 2A-152 | 1 1/2" = 1'-0"



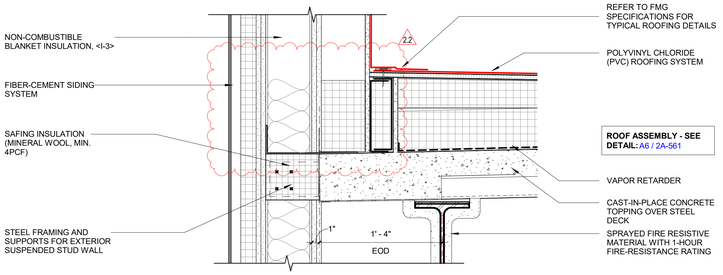
D4 2.2 PLASTER @ PARAPET, 2HR FRR

B1 / 2A-122 | 3" = 1'-0"



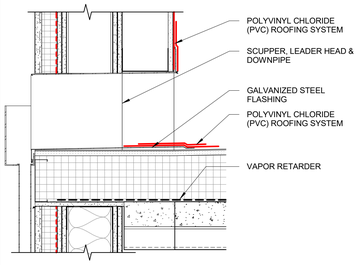
C4 2.2 FIBER CEMENT SIDING @ PARAPET

A1 / 2A-211 | 3" = 1'-0"



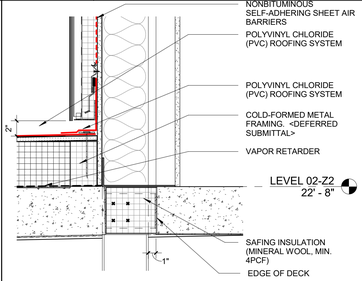
B4 TYPICAL RATED WALL @ E.O.D. ROOF

A4 / 2A-312 | 1 1/2" = 1'-0"



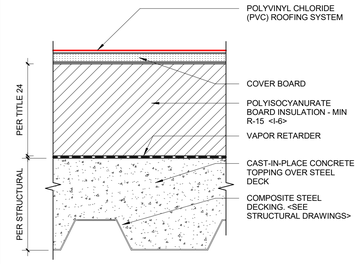
C6 THROUGH WALL SCUPPER

C4 / 2A-314 | 1 1/2" = 1'-0"



B6 F.C. SIDING @ LOWER ROOF

A4 / 2A-314 | 1 1/2" = 1'-0"



A6 ROOF-COMP. DECKING W/ CONCRETE, TYP.

3" = 1'-0"

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
ROOF DETAILS

Sheet No.
2A-561

11/20/2017 3:27:47 PM
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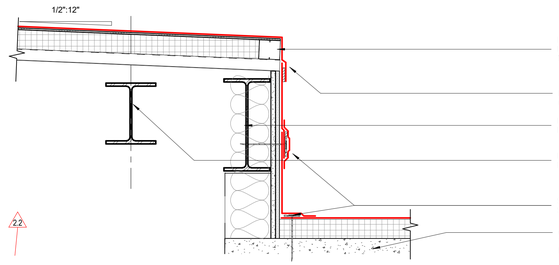
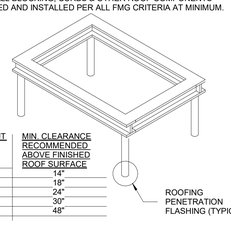


E1 ELEVATOR - ROOF OVER HOISTWAY

B1 / 2A-152 | 1 1/2" = 1'-0"

NOTES:
1. THIS DETAIL IS TO BE USED AT ROOFTOP EQUIPMENT THAT ARE DESIGNED TO REST ON A CURB.
2. COORDINATE PLACEMENT OF STAND WITH STRUCTURAL ENGINEER.
3. ATTACHMENT OF ALL BLOCKING, CURBS & OTHER ROOF COMPONENTS SHALL BE DESIGNATED AND INSTALLED PER ALL FMG CRITERIA AT MINIMUM.

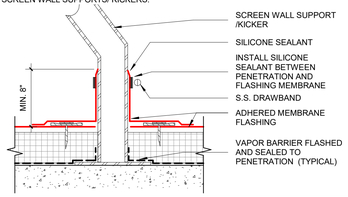


WIDTH OF EQUIPMENT	MIN. CLEARANCE RECOMMENDED ABOVE FINISHED ROOF SURFACE
UP TO 24"	14"
25" - 36"	18"
37" - 48"	24"
49" - 60"	30"
61" AND WIDER	48"

E3 EQUIPMENT STAND

B1 / 2A-152 | 1 1/2" = 1'-0"

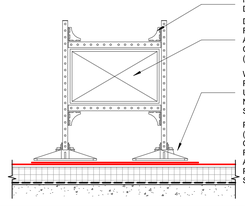
NOTES:
1. PENETRATIONS SHOULD HAVE A MIN. 12" CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS.
2. PENETRATIONS SHOULD BE RIGID, ROUND OR SQUARE TUBE AND EXTEND PERPENDICULAR FROM THE SURFACE OF THE ROOF.
3. SCREEN WALL SUPPORT / KICKER TO BE COMPLETELY WATERTIGHT ABOVE ROOF MEMBRANE FLASHING.
4. REFER TO STRUCTURALLY DRAWINGS FOR ATTACHMENT AND LOCATION OF SCREEN WALL SUPPORTS/ KICKERS.



D1 KICKER SUPPORT FLASHING

B1 / 2A-152 | 3" = 1'-0"

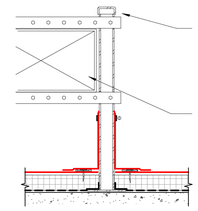
NOTES:
1. DUCT SUPPORT DETAIL PROVIDED AS AN EXAMPLE. COORDINATE DUCT SIZE, SUPPORT REQUIREMENTS, WIND UPLIFT / RESISTANCE REQUIREMENTS, PROTECTION OF INSTALLED ROOFING SYSTEM, ETC. AS REQUIRED.
2. PROVIDE ENGINEERING NOTING THAT NON-PENETRATING SUPPORT SYSTEM WILL REMAIN IN PLACE BASED ON WIND LOADING REQUIREMENTS FOR THIS PROJECT.



D2 NON-PENETRABLE DUCT SUPPORT

1 1/2" = 1'-0"

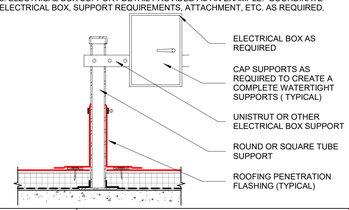
NOTES:
1. DUCT SUPPORT DETAIL PROVIDED AS AN EXAMPLE. COORDINATE DUCT SIZE, SUPPORT REQUIREMENTS, WIND UPLIFT / RESISTANCE REQUIREMENTS, ETC.



D3 DUCT SUPPORT

B1 / 2A-152 | 1 1/2" = 1'-0"

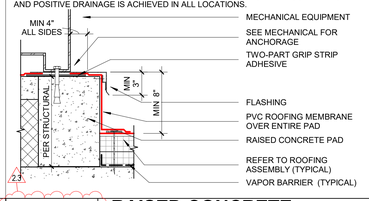
NOTES:
1. THIS DETAIL IS INTENDED FOR USE WHEN ELECTRICAL BOXES ARE NEEDED AT ROOF AREAS. ELECTRICAL EQUIPMENT ATTACHED TO PARAPETS ARE NOT PERMITTED.
2. REFER TO PENETRATION FLASHING DETAILS AND PENETRATION SPACING REQUIREMENTS.
3. ELECTRICAL BOX SUPPORT DETAIL PROVIDED AS AN EXAMPLE. COORDINATE ELECTRICAL BOX, SUPPORT REQUIREMENTS, ATTACHMENT, ETC. AS REQUIRED.



D4 ELECTRICAL SUPPORT

1 1/2" = 1'-0"

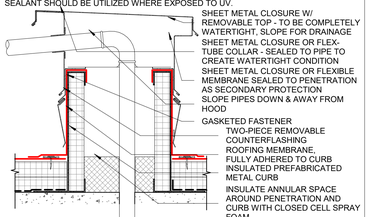
NOTES:
1. THIS DETAIL IS TO BE USED AT ROOFTOP EQUIPMENT DESIGNED TO REST ON A CAST-IN-PLACE HOUSEKEEPING PAD.
2. THE ROOFTOP EQUIPMENT SHOULD NOT BE SET UNTIL ROOF MEMBRANE WRAPS TOP OF PAD.
3. ATTACHMENT OF ALL BLOCKING, CURBS & OTHER ROOF COMPONENTS SHALL BE DESIGNED AND INSTALLED PER FMG CRITERIA AT MINIMUM.
4. COORDINATE TAPERED INSULATION SYSTEM / FLOW LINES OF SLOPED SUBSTRATE WITH CURBS SUCH THAT WATER FLOW IS DIRECTED AROUND THE UNIT AND POSITIVE DRAINAGE IS ACHIEVED IN ALL LOCATIONS.



D5 RAISED CONCRETE HOUSEKEEPING PAD

1 1/2" = 1'-0"

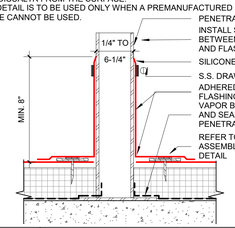
NOTES:
1. THIS DETAIL IS INTENDED FOR USE AT CONDITIONS WHERE A TYPICAL PENETRATION FLASHING CANNOT BE USED OR WHERE MULTIPLE PENETRATIONS MUST BE GROUPED TOGETHER. WHEN POSSIBLE, PENETRATIONS SHOULD BE SPACED AS REQUIRED TO ALLOW EACH INDIVIDUAL PENETRATION TO BE FLASHED BY THE ROOFING SYSTEM.
2. THE SHEET METAL ENCLOSURE IS TO BE FABRICATED WATERTIGHT. SILICONE SEALANT SHOULD BE UTILIZED WHERE EXPOSED TO UV.



C1 MULTIPLE PIPE ENCLOSURE

B1 / 2A-152 | 1 1/2" = 1'-0"

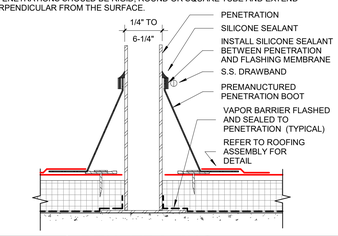
NOTES:
1. PENETRATIONS SHOULD HAVE A MIN. 12" CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS.
2. PENETRATIONS SHOULD BE RIGID, ROUND OR SQUARE TUBE AND EXTEND PERPENDICUALTR FROM THE SURFACE.
3. THIS DETAIL IS TO BE USED ONLY WHEN A PREMANUFACTURED FLASHING MEBRANE CANNOT BE USED.



C2 PENETRATING FLASHING-FIELD

B1 / 2A-152 | 3" = 1'-0"

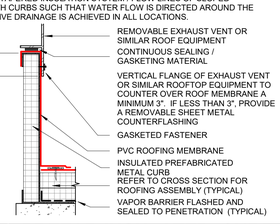
NOTES:
1. PENETRATIONS SHOULD HAVE A MIN. 12" CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS.
2. PENETRATIONS SHOULD BE RIGID, ROUND OR SQUARE TUBE AND EXTEND PERPENDICULAR FROM THE SURFACE.



C3 PENETRATING FLASHING-BOOT

B1 / 2A-152 | 3" = 1'-0"

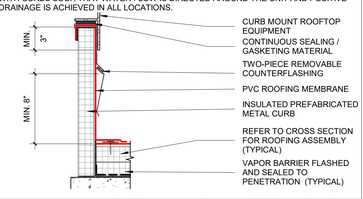
NOTES:
1. THIS DETAIL IS TO BE USED AT ROOFTOP EQUIPMENT THAT CAN BE EASILY LIFTED AND REMOVED BY ONE OR TWO PERSONS.
2. ATTACHMENT OF ALL BLOCKING, CURBS & OTHER ROOF COMPONENTS SHALL BE DESIGNED AND INSTALLED PER FMG CRITERIA AT MINIMUM.
3. COORDINATE TAPERED INSULATION SYSTEM / FLOW LINES OF SLOPED SUBSTRATE WITH CURBS SUCH THAT WATER FLOW IS DIRECTED AROUND THE UNIT AND POSITIVE DRAINAGE IS ACHIEVED IN ALL LOCATIONS.



C4 PREFAB INSULATED CURB W/ FASTENER

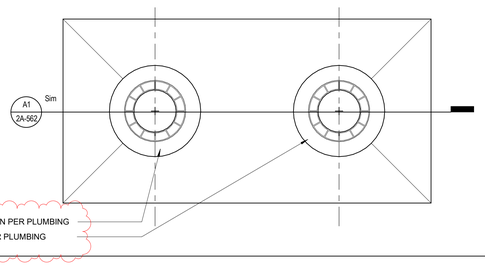
B1 / 2A-152 | 1 1/2" = 1'-0"

NOTES:
1. THIS DETAIL IS TO BE USED AT ROOFTOP EQUIPMENT DESIGNED TO REST ON A CURB.
2. THE ROOFTOP EQUIPMENT SHOULD NOT BE SET UNTIL ROOF MEMBRANE WRAPS TOP OF PREFABRICATED CURB.
3. ATTACHMENT OF ALL BLOCKING, CURBS & OTHER ROOF COMPONENTS SHALL BE DESIGNED AND INSTALLED PER FMG CRITERIA AT MINIMUM.
4. COORDINATE TAPERED INSULATION SYSTEM / FLOW LINES OF SLOPED SUBSTRATE WITH CURBS SUCH THAT WATER FLOW IS DIRECTED AROUND THE UNIT AND POSITIVE DRAINAGE IS ACHIEVED IN ALL LOCATIONS.



C5 PREFAB INSULATED CURB W/ FLASHING

A1 / 2A-561 | 1 1/2" = 1'-0"

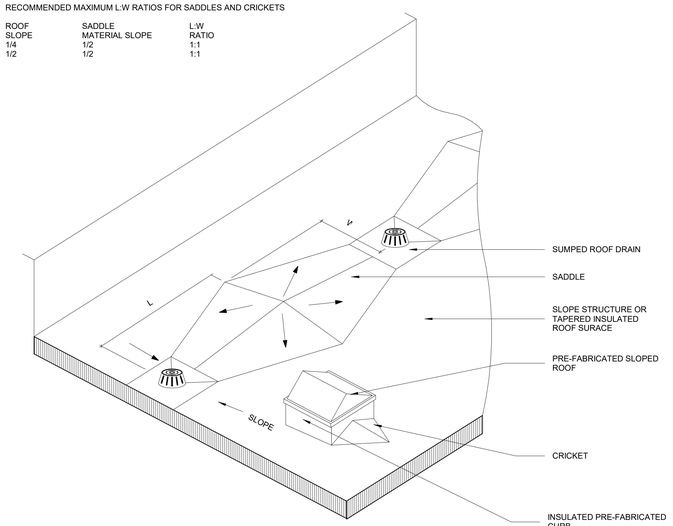


B1 ROOF- DRAIN PLAN

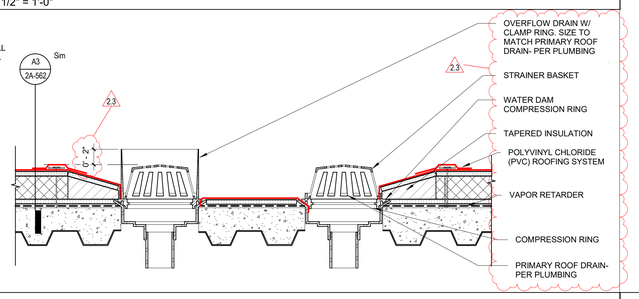
B1 / 2A-152 | 1 1/2" = 1'-0"

RECOMMENDED MAXIMUM L:W RATIOS FOR SADDLES AND CRICKETS

ROOF SLOPE	SADDLE MATERIAL SLOPE	L:W RATIO
1/4	1/2	1:1
1/2	1/2	1:1



NOTES:
1. VAPOR BARRIER SHALL BE SEALED AT EDGES.



A1 ROOF DRAIN & OVERFLOW @ COMPOSITE DECK

B1 / 2A-152 | 1 1/2" = 1'-0"

A3 SADDLE -CRICKET LAYOUT

A1 / 2A-562 | 3" = 1'-0"

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

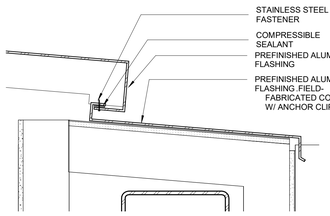
Sheet Title
ROOF DETAILS

Sheet No.
2A-562

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

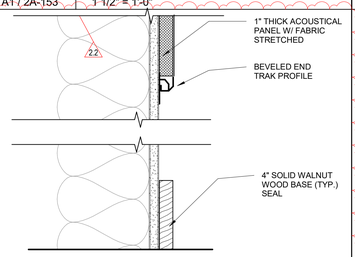
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

11/17/2017 1:21:13 PM



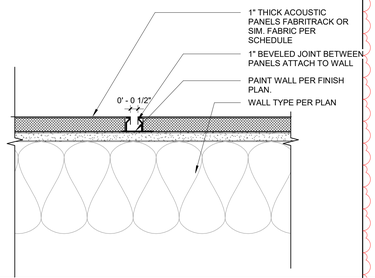
E1 SECTION - ROOF PARAPET FLASHINGS

A1 / 2A-153 | 1 1/2" = 1'-0"



D1 ACOUSTICAL WALL PANELS TRIM

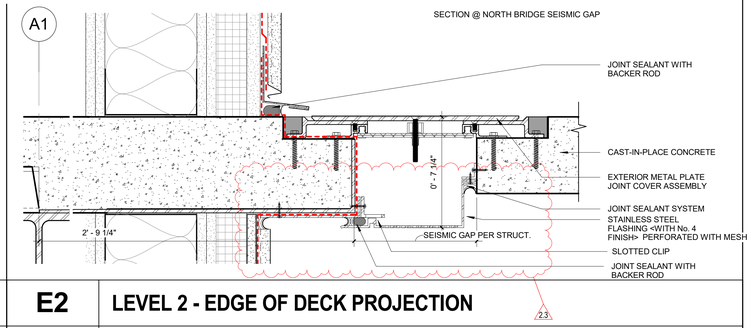
3" = 1'-0"



2.3

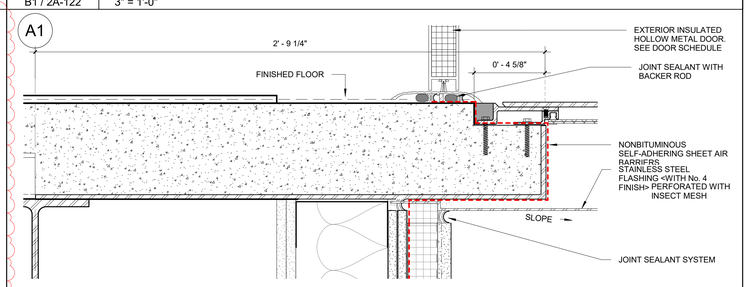
C1 ACOUSTICAL WALL PANELS JOINT

3" = 1'-0"



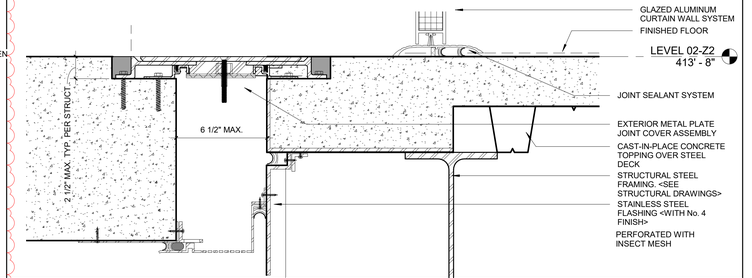
E2 LEVEL 2 - EDGE OF DECK PROJECTION

B1 / 2A-122 | 3" = 1'-0"



D2 LEVEL 2 - EDGE OF DECK FLASHING

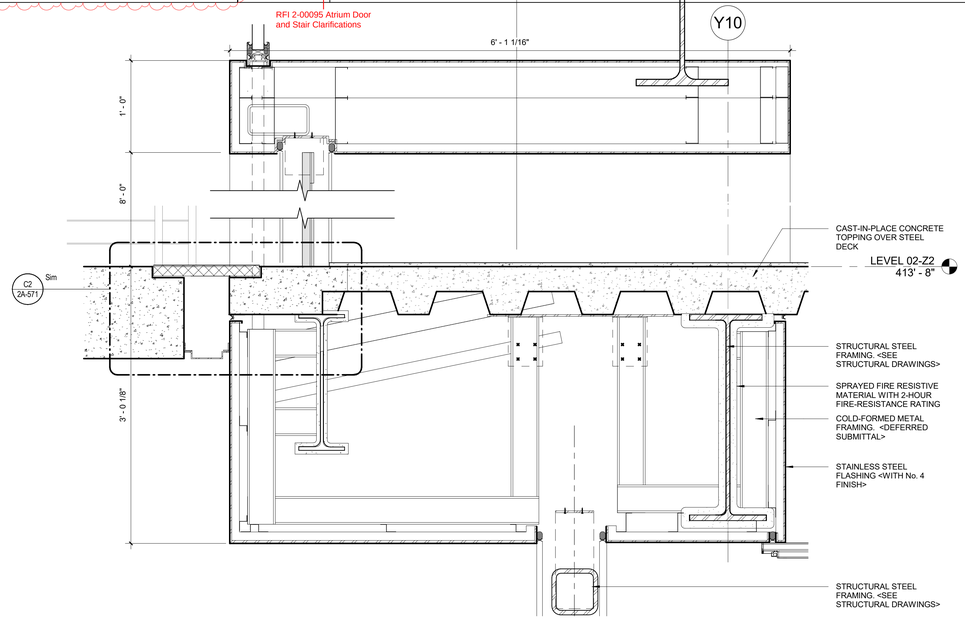
B1 / 2A-122 | 3" = 1'-0"



C2 SEISMIC SYSTEM - EXTERIOR NORTH

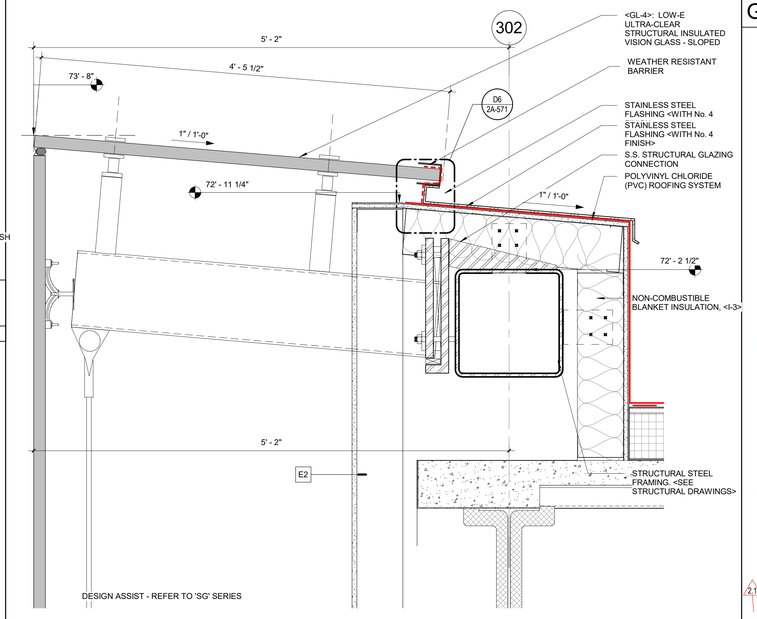
A5 / 2A-401 | 3" = 1'-0"

RFI 2-00095 Atrium Door and Stair Clarifications



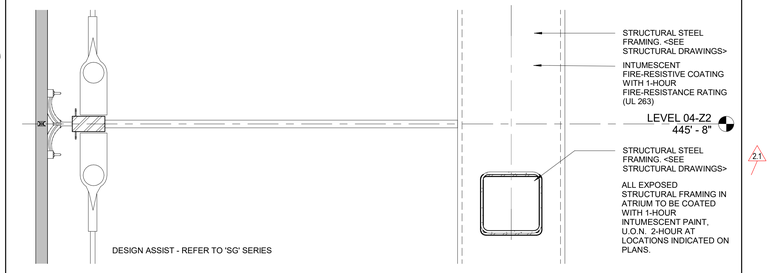
A1 DETAIL - SOUTH BRIDGE SILL

A1 / 2A-311 | 1 1/2" = 1'-0"



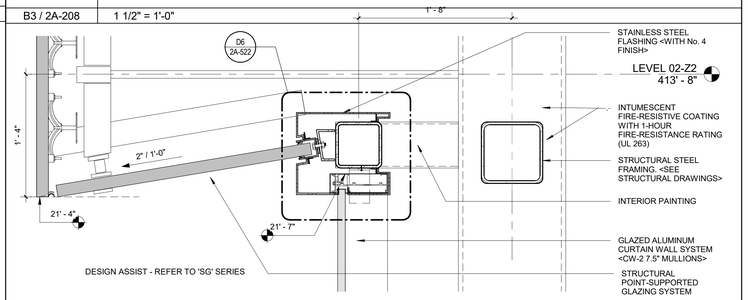
D4 DETAIL - SLOPING STRUCT. GLASS ROOF

A1 / 2A-209 | 1 1/2" = 1'-0"



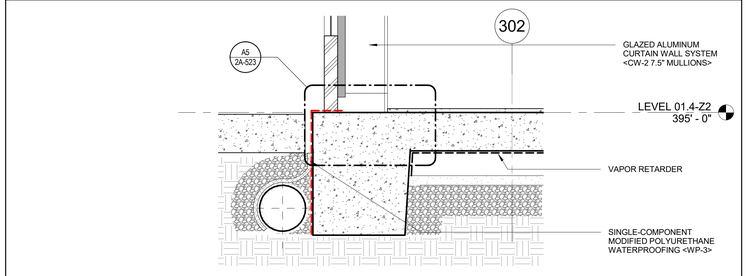
C4 DETAIL - STRUCT. GLASS BRACING

B3 / 2A-208 | 1 1/2" = 1'-0"



B4 DETAIL - SLOPING STRUCT. GLASS SILL/CW HEADER

B3 / 2A-208 | 1 1/2" = 1'-0"

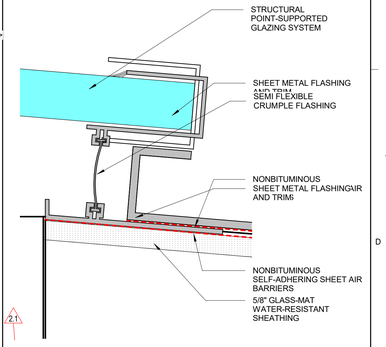


A4 DETAIL - L1 SLAB @ CURTAIN WALL

A1 / 2A-113 | 1 1/2" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.



D6 ENLARGED STRUCTURAL GLAZING FLASHING/ROOF

D4 / 2A-571 | 6" = 1'-0"

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
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2.3	11.20.17	ASI 2.1IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
DETAILS

Sheet No.
2A-571

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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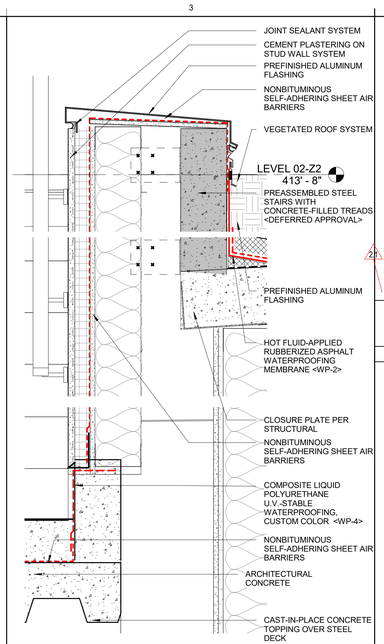
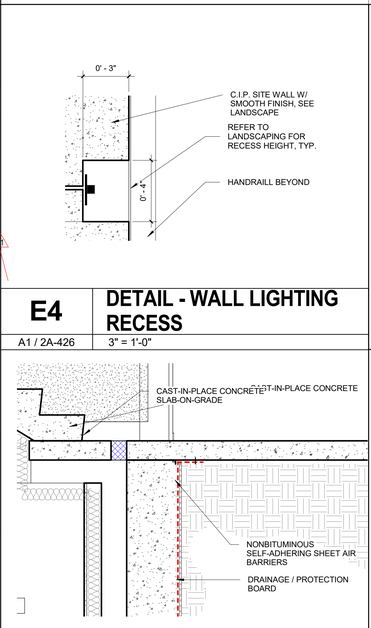


D3 DETAIL - EOD @ EXTERIOR STAIR

A1 / 2A-315 | 1 1/2" = 1'-0"

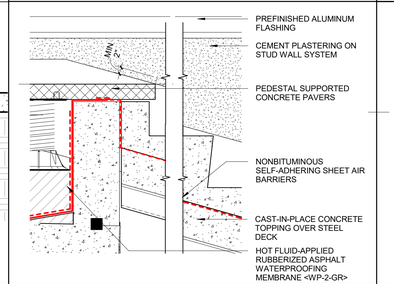


E4 DETAIL - WALL LIGHTING RECESS

A1 / 2A-426 | 3" = 1'-0"

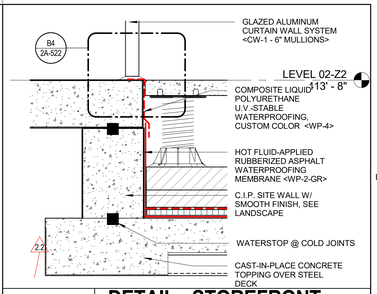
D4 EXTENDED CIP LANDING @ EXTERIOR WALL

A3 / 2A-312 | 3/4" = 1'-0"



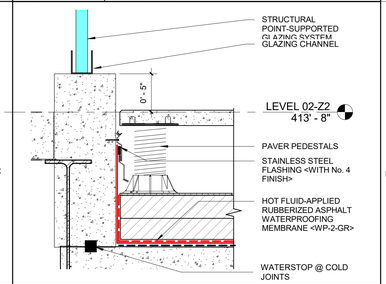
D5 DETAIL- TOP OF STAIR @ CURB

A4 / 2A-311 | 1 1/2" = 1'-0"



E6 DETAIL - STOREFRONT DOOR SILL

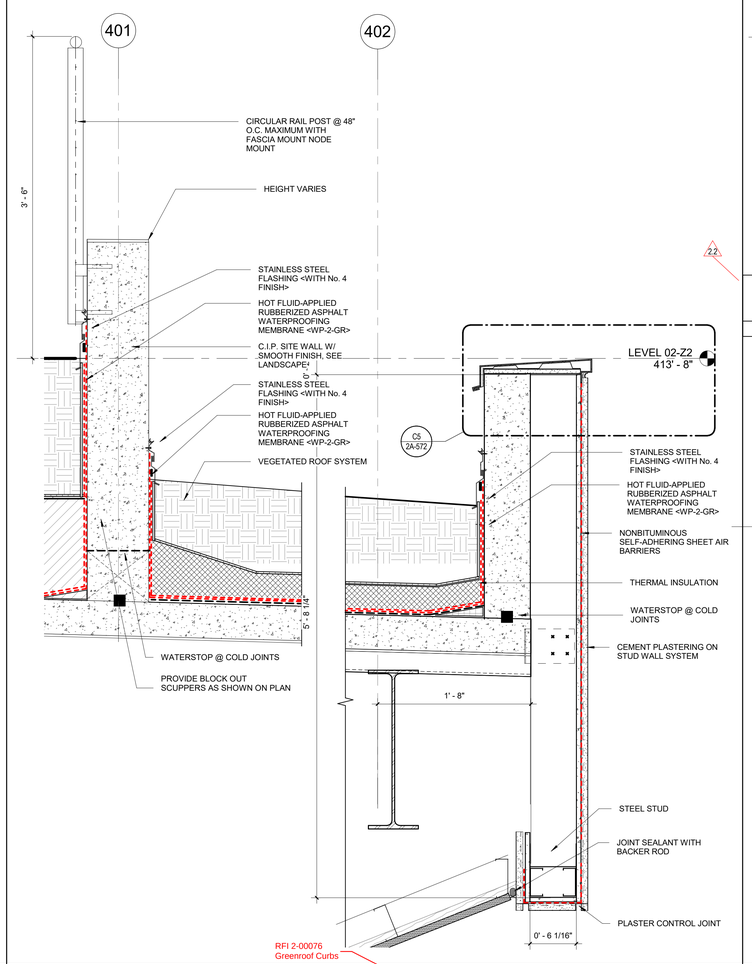
A5 / 2A-311 | 1 1/2" = 1'-0"



D6 GREEN ROOF @ GLAZING CURB, TYP.

A4 / 2A-311 | 1 1/2" = 1'-0"

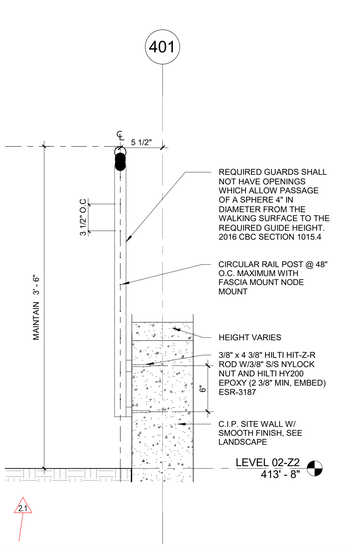
RFI 2-00095 Atrium Door and Stair Clarifications



RFI 2-00076 Greenroof Curbs

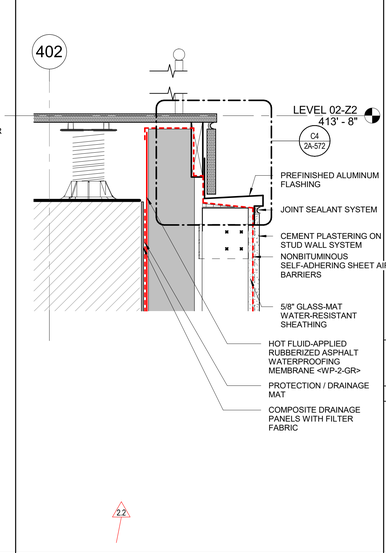
A3 GREEN ROOF @ EDGE, TYP.

A1 / 2A-123 | 1 1/2" = 1'-0"



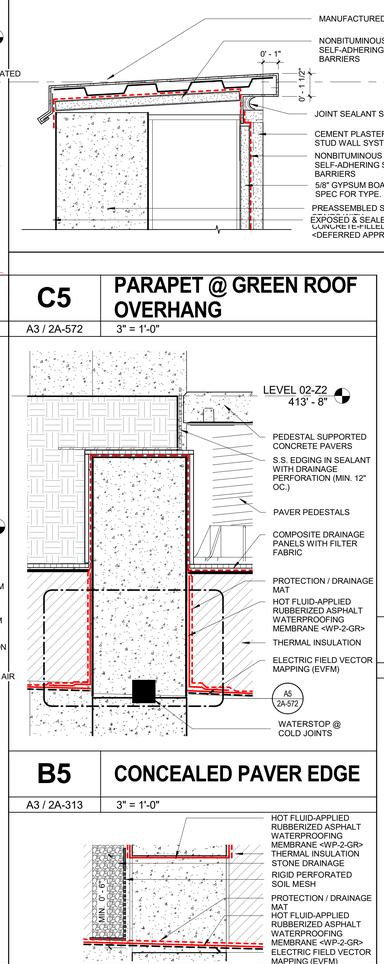
A1 RAILING @ GREEN ROOF EDGE

A1 / 2A-123 | 1 1/2" = 1'-0"



A4 GREEN ROOF @ WALKWAY EDGE

A1 / 2A-123 | 1 1/2" = 1'-0"



C4 DETAIL @ SLOPED FLASHING

A4 / 2A-572 | 3" = 1'-0"

C5 PARAPET @ GREEN ROOF OVERHANG

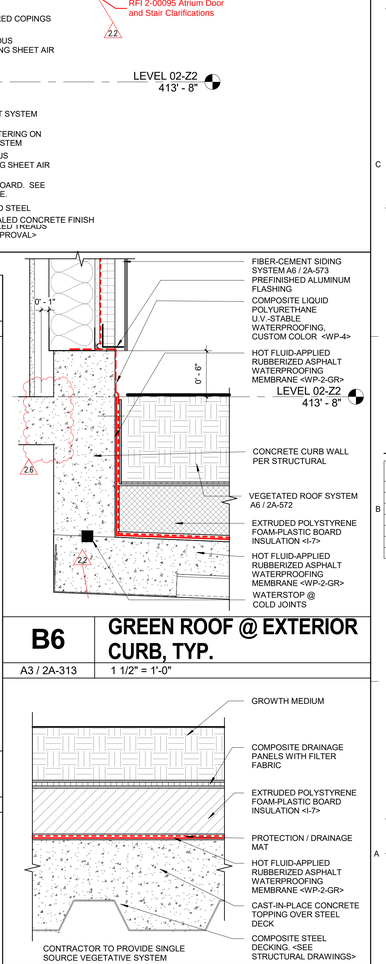
A3 / 2A-572 | 3" = 1'-0"

B5 CONCEALED PAVER EDGE

A3 / 2A-313 | 3" = 1'-0"

A5 GREEN ROOF BLOCK OUTS

B5 / 2A-572 | 3" = 1'-0"



B6 GREEN ROOF @ EXTERIOR CURB, TYP.

A3 / 2A-313 | 1 1/2" = 1'-0"

A6 GREEN ROOF-COMP. DECKING w/ CONCRETE

A1 / 2A-315 | 3" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

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2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
DETAILS

Sheet No.
2A-572

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

11/20/2017 10:59:34 AM
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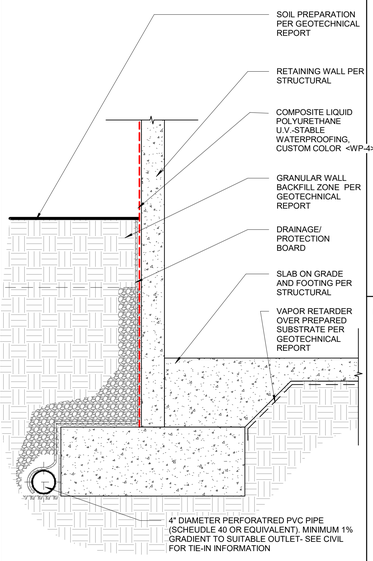
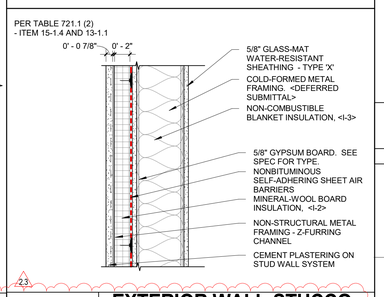


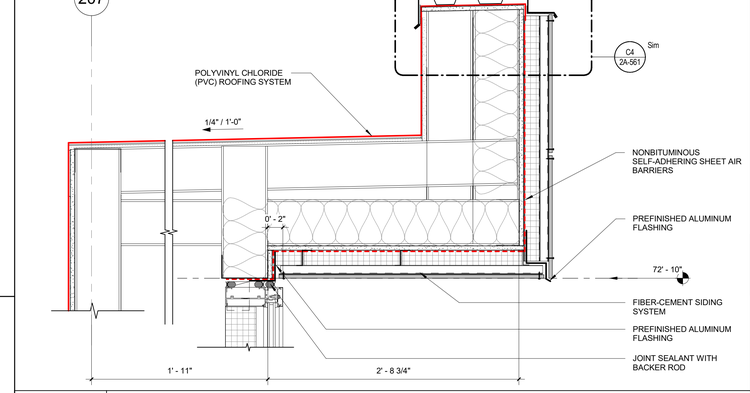
D1 TYPICAL FOUNDATION DRAIN DETAIL

3/4" = 1'-0"



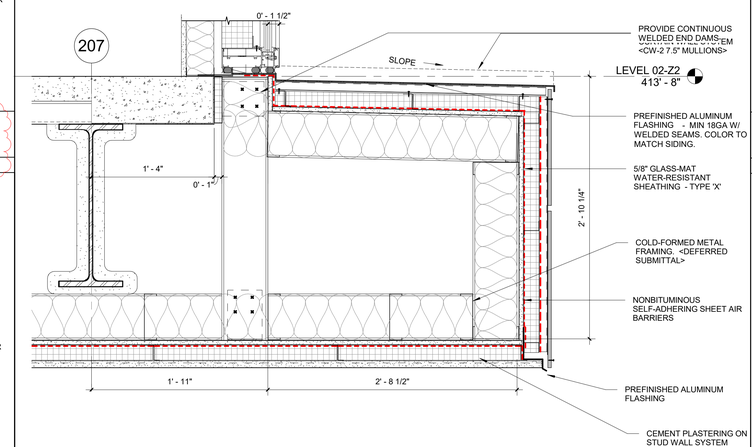
D2 EXTERIOR WALL-STUCCO PLASTER-1HR

1 1/2" = 1'-0"



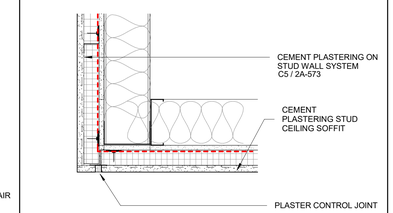
D3 F.C. ROOF OVERHANG

B2 / 2A-314 | 1 1/2" = 1'-0"



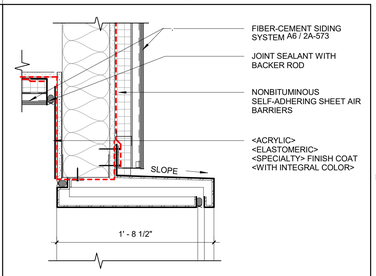
D4 F.C. EXTENDED SHELF / SOFFIT

B2 / 2A-314 | 1 1/2" = 1'-0"



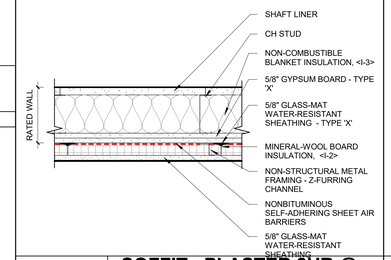
E5 PLASTER WALL/ SOFFIT

D2 / 2A-315 | 1 1/2" = 1'-0"



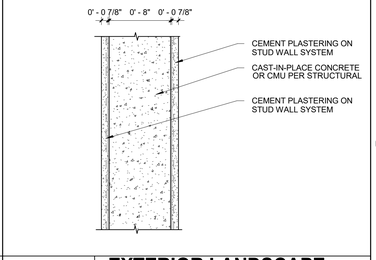
E6 EXTERIOR BRAKE METAL OPENING TRIM

C3 / 2A-314 | 1 1/2" = 1'-0"



D5 SOFFIT - PLASTER 2HR @ STAIR

A3 / 2A-425 | 1 1/2" = 1'-0"



D6 EXTERIOR LANDSCAPE WALL on PLASTER

1 1/2" = 1'-0"

B1 PLASTER WALL METAL REVEAL

6" = 1'-0"

C2 SOFFIT-PLASTER @ FC SIDING

A1 / 2A-211 | 3" = 1'-0"

C3 F.C. EXTENDED SHELF / SOFFIT

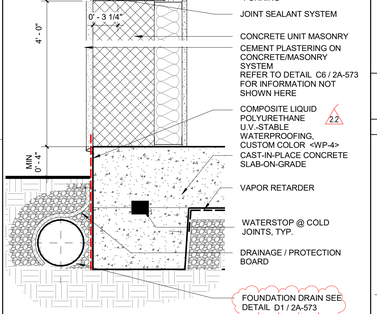
B2 / 2A-314 | 1 1/2" = 1'-0"

B5 EXTERIOR WALL-STUCCO PLASTER-2HR

1 1/2" = 1'-0"

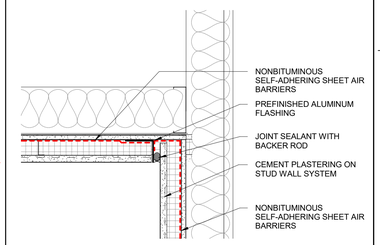
B6 EXTERIOR WALL-FIBER CEMENT SIDING-2HR

1 1/2" = 1'-0"



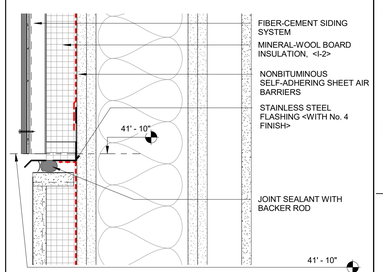
A1 SLAB @ SOFTSCAPE GRADE

A4 / 2A-312 | 1 1/2" = 1'-0"



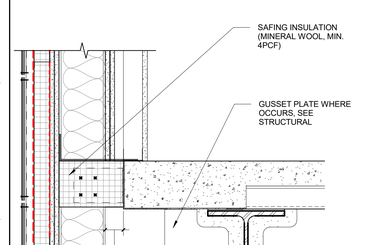
B2 SOFFIT-PLASTER @ PLASTER WALL

A5 / 2A-211 | 1 1/2" = 1'-0"



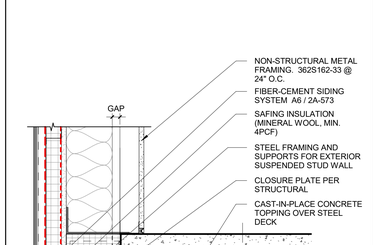
A2 F.C. SIDING @ PLASTER in 2-HR RATED WALL

A1 / 2A-211 | 3" = 1'-0"



A3 F.C. SIDING @ E.O.D. 2 HR

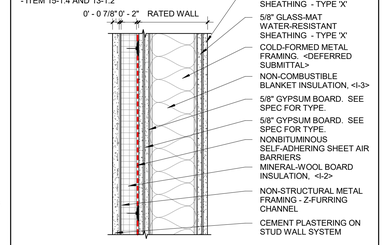
A5 / 2A-312 | 1 1/2" = 1'-0"



RFI 2-00085 Slab Edge Confirmation for Levels 4 and 5

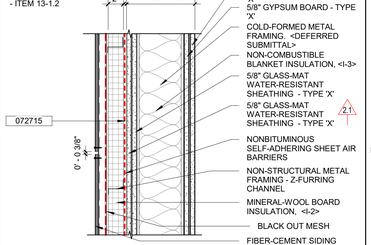
A4 F.C. SIDING @ E.O.D. TYP.

A3 / 2A-312 | 1 1/2" = 1'-0"



A5 EXTERIOR WALL-STUCCO PLASTER

1 1/2" = 1'-0"



A6 EXTERIOR WALL-FIBER CEMENT SIDING

1 1/2" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

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2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

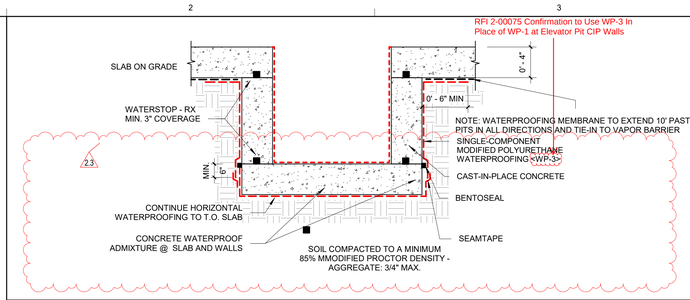
Sheet Title
DETAILS

Sheet No.
2A-573

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

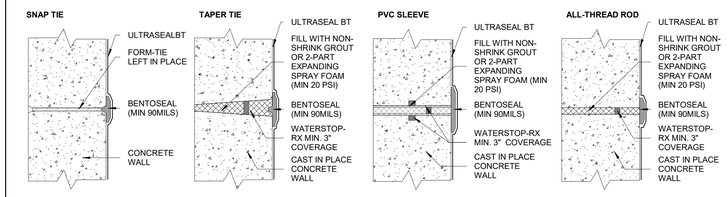
11/17/2017 1:21:50 PM



E2 DETAIL - ELEVATOR PIT

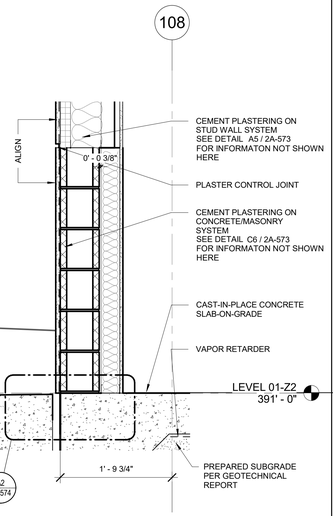
RFI 2-00048 Elevator Steel Clarification

A3 / 2A-428 | 1 1/2" = 1'-0"



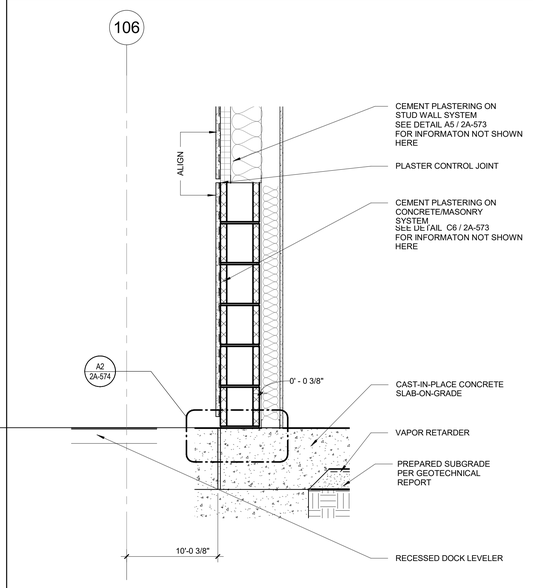
D2 BACKFILLED WALL -CONCRETE

3" = 1'-0"



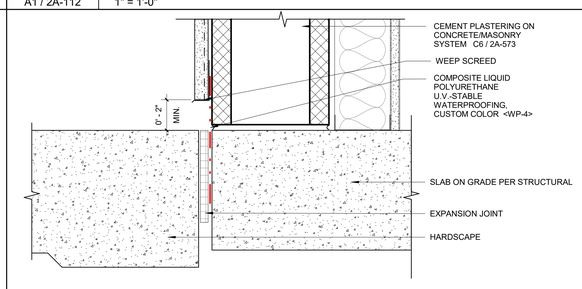
B1 DETAIL AT EDGE OF SLAB

A1 / 2A-112 | 1" = 1'-0"



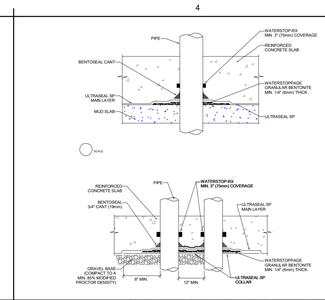
B2 CMU WALL AT DOCK

A1 / 2A-112 | 1" = 1'-0"



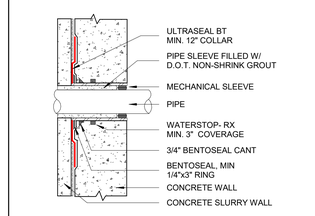
A2 EDGE OF SLAB DETAIL @ CMU

A1 / 2A-112 | 3" = 1'-0"



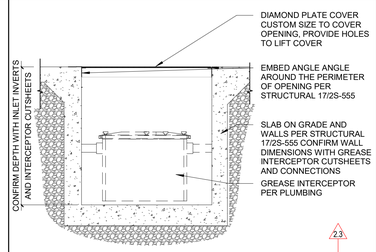
E4 UNDERSLAB WATERPROOF PENETRATION

1 1/2" = 1'-0"



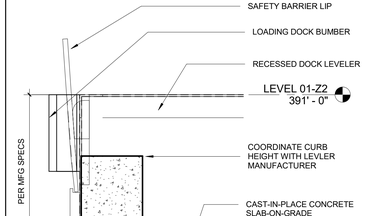
D4 SLEEVED PENETRATION

1 1/2" = 1'-0"



C4 GREASE INTERCEPTOR VAULT DETAIL

1/2" = 1'-0"

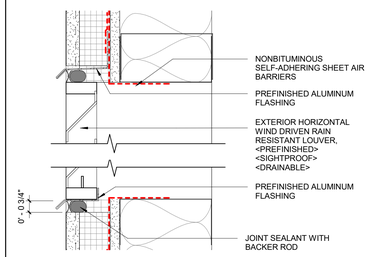


D5 PENETRATION SPACING STANDARDS 6-002

1 1/2" = 1'-0"

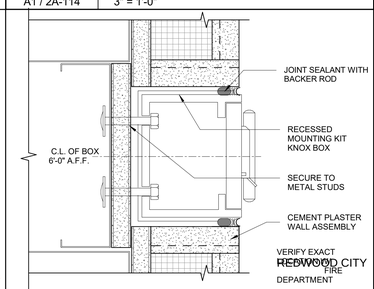
C5 DOCK PLATFORM & LEVELER

D2 / 2A-315 | 1 1/2" = 1'-0"



B5 SECTION @ EXT. WALL LOUVER

A1 / 2A-114 | 3" = 1'-0"



REDWOOD CITY FIRE DEPARTMENT

A5 KNOX BOX

6" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
DETAILS

Sheet No.
2A-574

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/3/2017 3:59:06 PM
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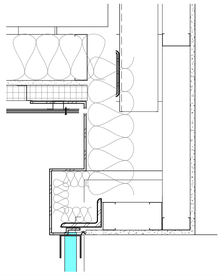
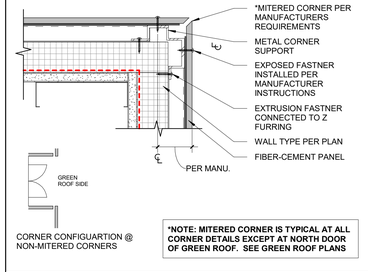


D1 PLAN - L2 WEST BRAKE METAL

A1 / 2A-123 | 1 1/2" = 1'-0"

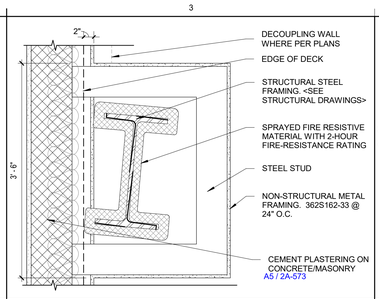


CORNER CONFIGUARTION @ NON-MITERED CORNERS

***NOTE: MITERED CORNER IS TYPICAL AT ALL CORNER DETAILS EXCEPT AT NORTH DOOR OF GREEN ROOF. SEE GREEN ROOF PLANS**

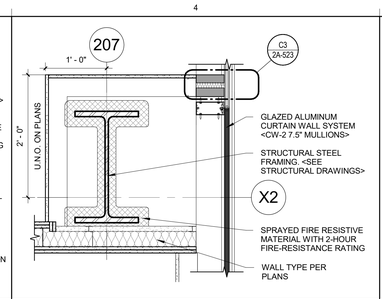
E2 2.2 FIBER CEMENT CORNER DETAILS

3" = 1'-0"



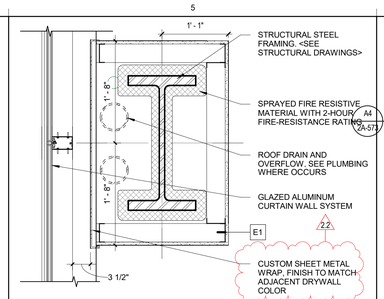
E3 DETAIL @ EXT. WALL / COLUMN

A1 / 2A-112 | 1" = 1'-0"



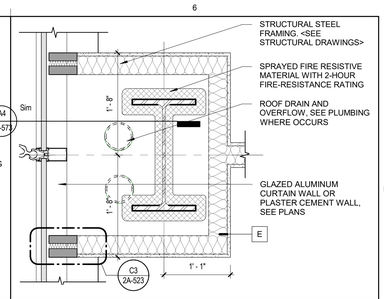
E4 COLUMN FURRING @ CURTAIN WALL 3

A2 / 2A-424 | 1" = 1'-0"



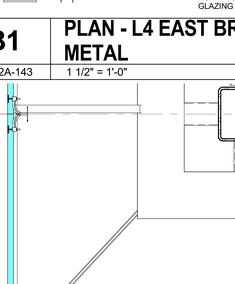
E5 COLUMN FURRING @ ALUMINUM FLASHING 1

B1 / 2A-122 | 1" = 1'-0"



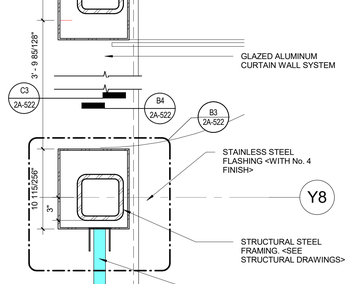
E6 COLUMN FURRING @ CURTAIN WALL 1

B1 / 2A-122 | 1" = 1'-0"



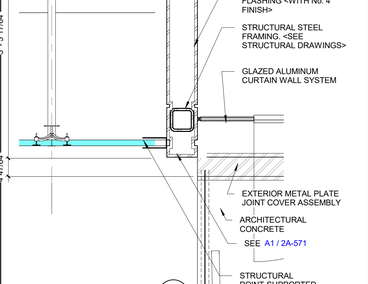
D2 F.C. SIDING @ RATED / NON-RATED WALLS

B1 / 2A-132 | 1 1/2" = 1'-0"



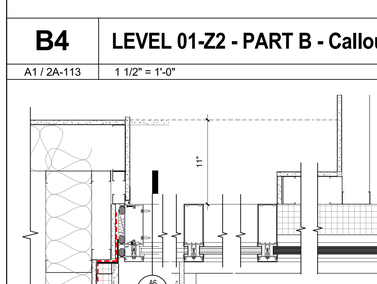
D3 PLAN - EXTERIOR CMU WALL @ PLASTER

A1 / 2A-112 | 1 1/2" = 1'-0"



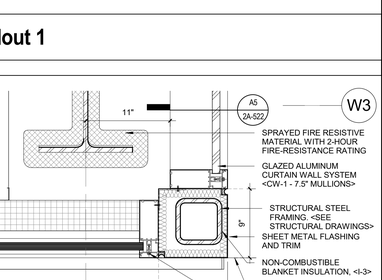
D4 COLUMN FURRING @ 301 & X3

B1 / 2A-132 | 1" = 1'-0"



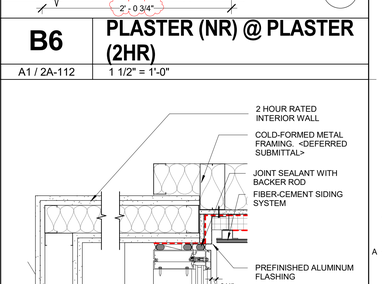
D5 COLUMN FURRING @ ALUMINUM FLASHING 2

B1 / 2A-122 | 1" = 1'-0"



D6 COLUMN FURRING @ CURTAIN WALL 2

B1 / 2A-122 | 1" = 1'-0"



C1 EXTERIOR COLUMN COVERS

A1 / 2A-112 | 1 1/2" = 1'-0"

C3 CIP WALL @ PLASTER

A1 / 2A-114 | 1 1/2" = 1'-0"

B4 LEVEL 01-Z2 - PART B - Callout 1

A1 / 2A-113 | 1 1/2" = 1'-0"

C6 F.C. SIDING @ PLASTER (2HR)

B1 / 2A-122 | 1 1/2" = 1'-0"

B1 PLAN - L4 EAST BRAKE METAL

A1 / 2A-143 | 1 1/2" = 1'-0"

A2 PLAN - L2 EAST BRAKE METAL

A1 / 2A-123 | 1 1/2" = 1'-0"

RFI 2-00095 Atrium Door and Stair Clarifications

A3 PLAN - L2 SOUTH PORTAL WALL

C4 / 2A-421 | 3/4" = 1'-0"

A4 CURTAIN WALL-PLAN @ STAIR 7

B5 / 2A-208 | 1 1/2" = 1'-0"

B6 PLASTER (NR) @ PLASTER (2HR)

A1 / 2A-112 | 1 1/2" = 1'-0"

A6 PLAN @ EXTERIOR C.W . & RATED WALL

A2 / 2A-424 | 1 1/2" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03.22.17	ATRIUM GLAZING BID
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
DETAILS

Sheet No.
2A-575

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

4/25/2017 10:57:33 AM
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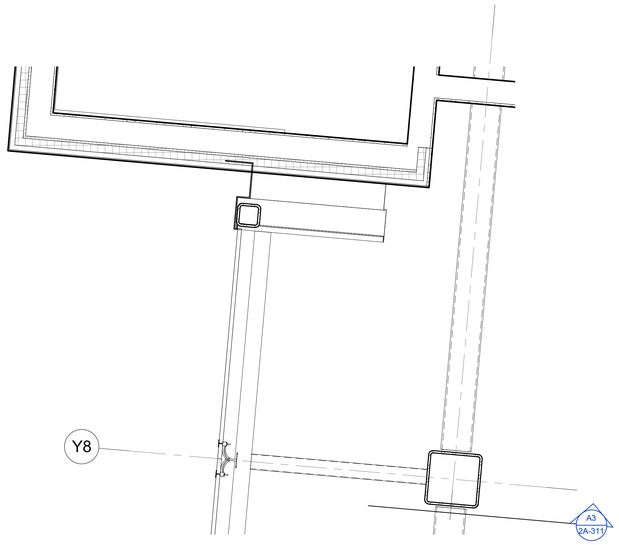
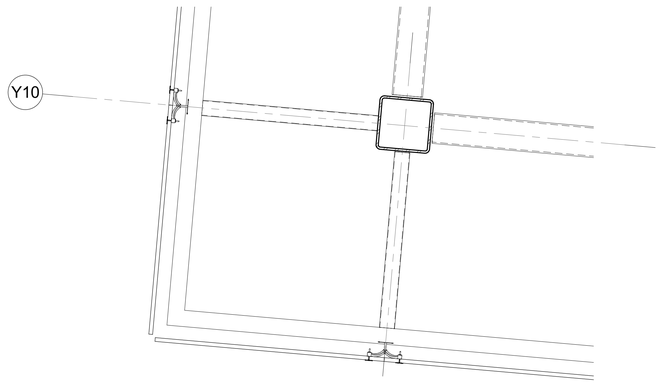
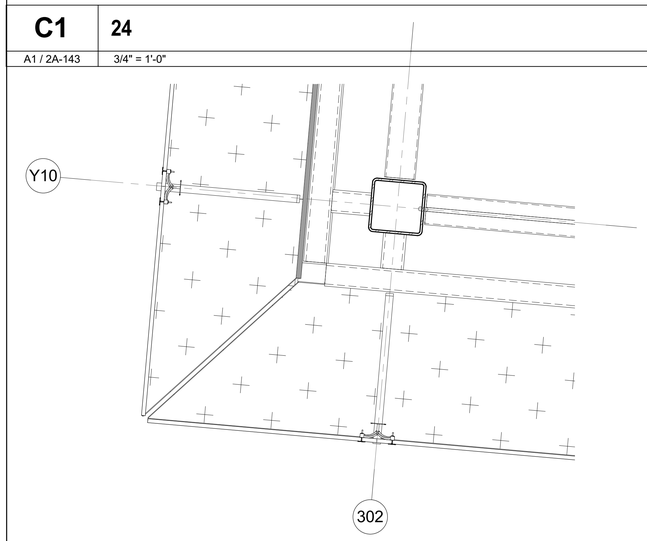


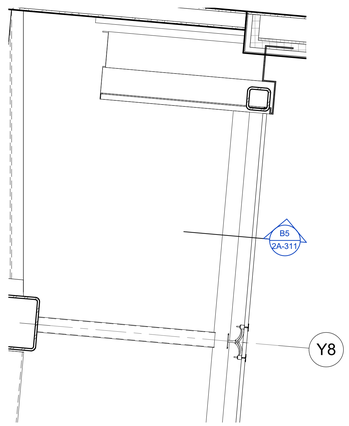
D1 DETAIL 34
A1 / 2A-143 | 3/4" = 1'-0"



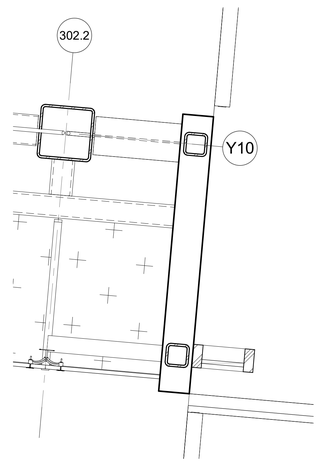
C1 24
A1 / 2A-143 | 3/4" = 1'-0"



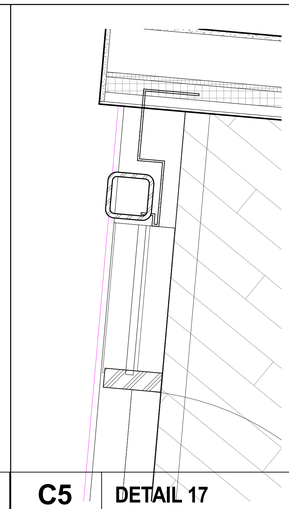
A1 DETAIL 14
B4 / 2A-421 | 3/4" = 1'-0"



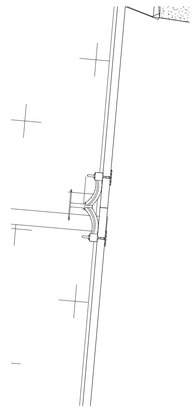
C4 LEVEL 04-Z2- PART B - Callout 1
A1 / 2A-143 | 3/4" = 1'-0"



A4 DETAIL 13
B4 / 2A-421 | 3/4" = 1'-0"



C5 DETAIL 17
A1 / 2A-123 | 1 1/2" = 1'-0"



A5 DETAIL 18
A1 / 2A-123 | 1 1/2" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE.
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND - EXTERIOR ELEVATION

- GL-1 VISION U FACTOR = 0.29, SHGC = 023, VT = 51%
- GL-1S SPANDREL
- GL-3 VERTICAL GLASS @ ATRIUM
- FIBER CEMENT SIDING PANEL (120"x16") BY EQUITONE - RECTIFIED TRIM FINISH. W/ COLOR TBD. (ICC-ESR-3910)
- STUCCO 1 - HAND TROWELLED PASTER - SANTA BARBARA FINISH. PATTERN & COLOR TBD.
- STUCCO 2 - MEDIUM TEXTURE FINISH
- ALUMINUM COLUMN WRAP
- LINEAR METAL CEILING (LM-2)
- EXPOSED ARCHITECTURAL CONCRETE

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title
DETAILS

Sheet No.
2A-576

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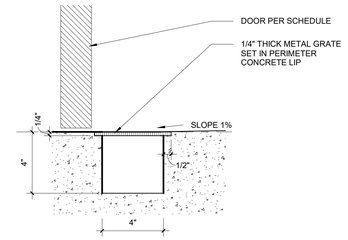
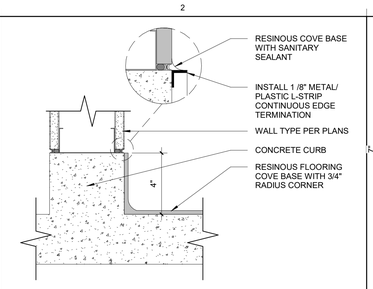


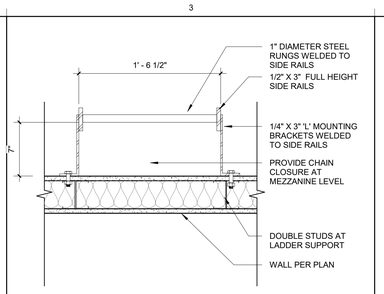
E1 TROUGH DETAIL

A1 / 2A-112 | 3" = 1'-0"



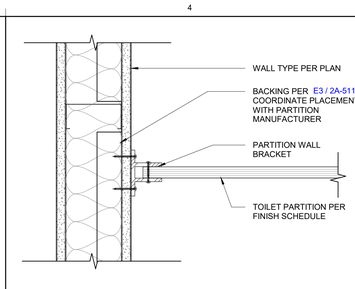
E2 RESINOUS WALL BASE AT WALL WITH CURB

A1 / 2A-112 | 3" = 1'-0"



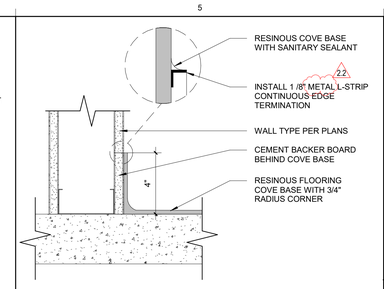
E3 LADDER - WALL MOUNTED

B1 / 2A-142 | 1 1/2" = 1'-0"



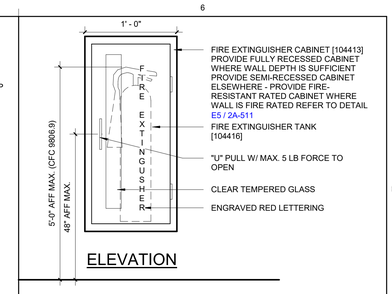
E4 TOILET PARTITION WALL ATTACHMENT

3" = 1'-0"



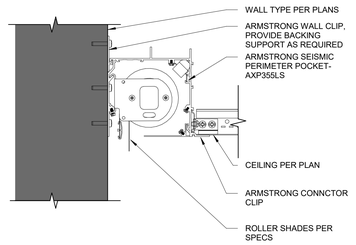
E5 RESINOUS WALL BASE TERMINATION AT WALL

B1 / 2A-122 | 3" = 1'-0"



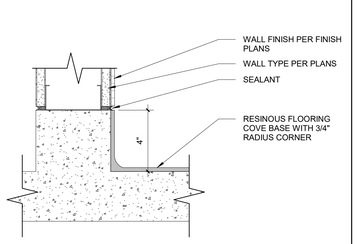
E6 FIRE EXTINGUISHER CABINET

1 1/2" = 1'-0"



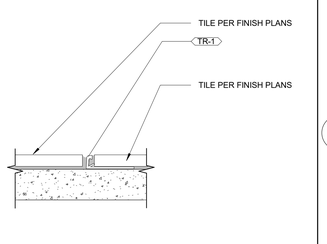
D1 ROLLER SHADES AT CEILING

3" = 1'-0"



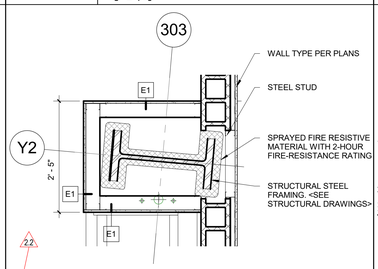
D2 RESINOUS WALL BASE AT WALL FINISH WITH CURB

3" = 1'-0"



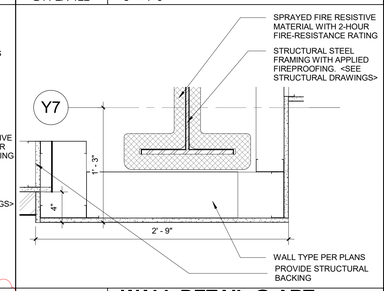
D3 TILE TRANSITION

6" = 1'-0"



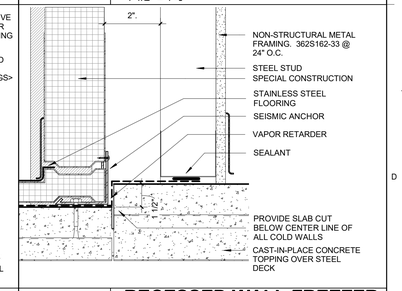
D4 COLUMN FURRING @ 303 & Y2

A1 / 2A-112 | 3/4" = 1'-0"



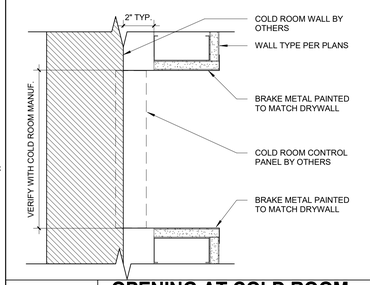
D5 WALL DETAIL @ ART FEATURE

A4 / 2A-428 | 1 1/2" = 1'-0"



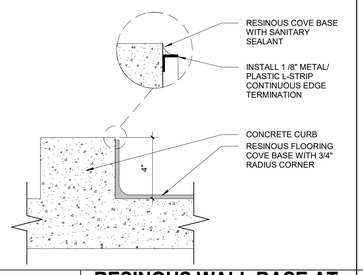
D6 RECESSED WALL FREEZER SLAB

B1 / 2A-122 | 3" = 1'-0"



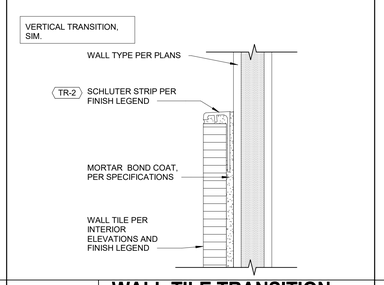
C1 OPENING AT COLD ROOM CONTROL PANEL

B1 / 2A-122 | 3" = 1'-0"



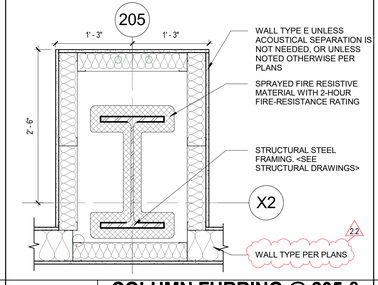
C2 RESINOUS WALL BASE AT CURB

B1 / 2A-122 | 3" = 1'-0"



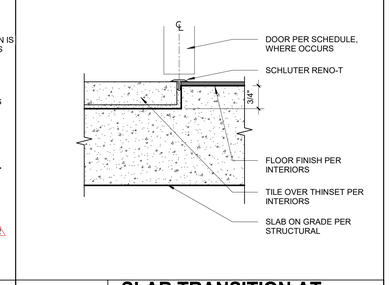
C3 WALL TILE TRANSITION (HORIZONTAL)

12" = 1'-0"



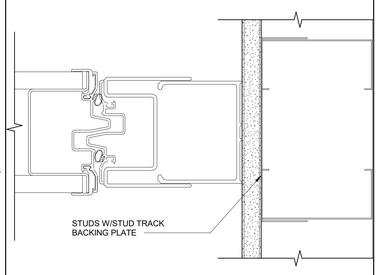
C4 COLUMN FURRING @ 205 & X2

B1 / 2A-122 | 1" = 1'-0"



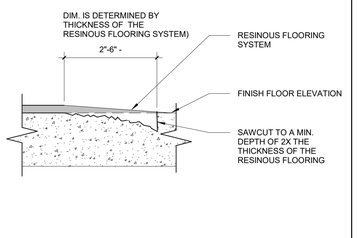
C5 SLAB TRANSITION AT CONCRETE TILE -2

A1 / 2A-112 | 6" = 1'-0"



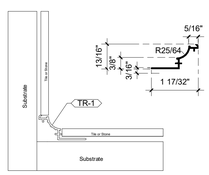
B1 OPERABLE PARTITON JAMB

6" = 1'-0"



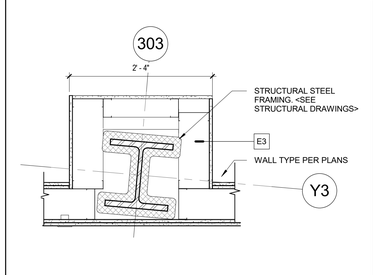
B2 RESINOUS FLOORING TERMINATION DETAIL

3" = 1'-0"



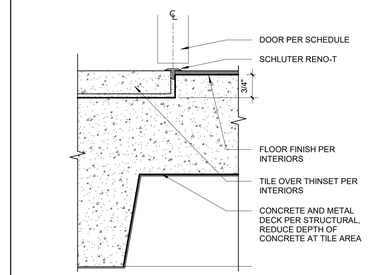
B3 COVE DETAIL

6" = 1'-0"



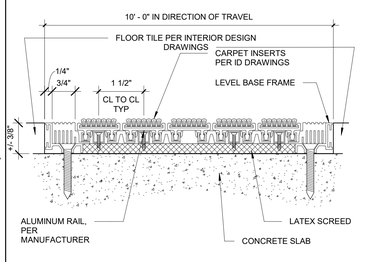
B4 COLUMN FURRING @

A1 / 2A-113 | 1" = 1'-0"



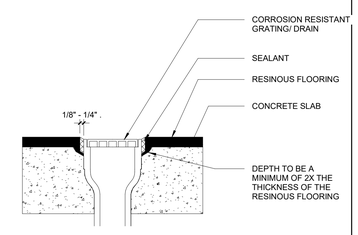
B5 SLAB TRANSITION AT CONCRETE TILE

6" = 1'-0"



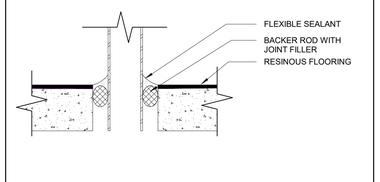
A1 WALK OFF MAT SECTION

6" = 1'-0"



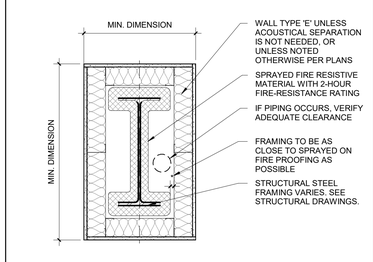
A2 RESINOUS FLOORING @ DRAIN DETAIL

3" = 1'-0"



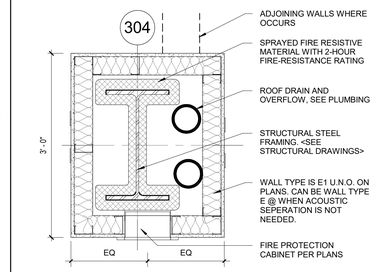
A3 RESINOUS FLOORING @ PIPE PENETRATION

3" = 1'-0"



A4 COLUMN FURRING, TYP.

A1 / 2A-112 | 1" = 1'-0"



A5 COLUMN FURRING @ INTERIOR W/ PIPING

B1 / 2A-122 | 1" = 1'-0"

10/2/2017 3:41:19 PM

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

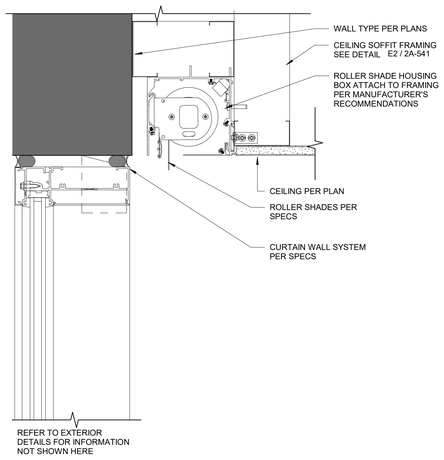
Sheet Title
INTERIOR DETAILS

Sheet No.
2A-577

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

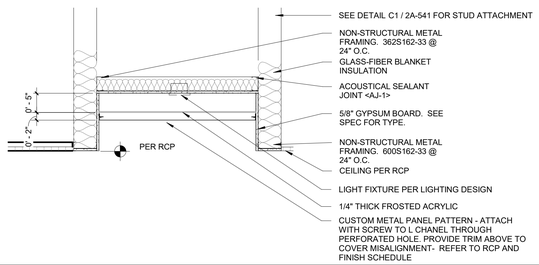
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

11/17/2017 1:22:31 PM



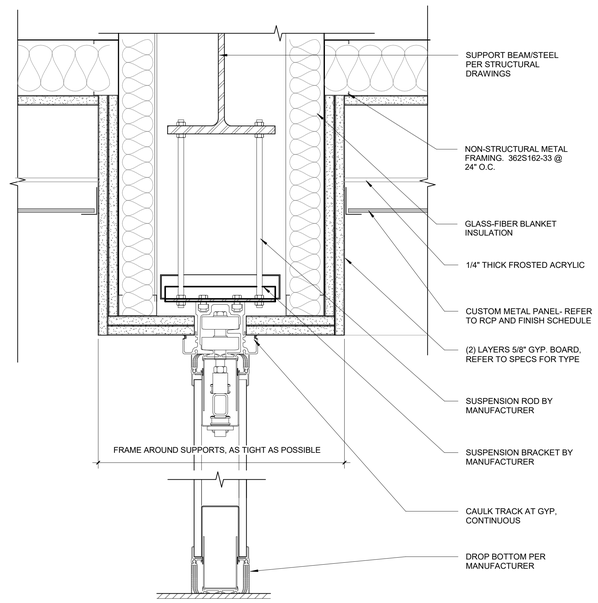
C1 ROLLER SHADES AT GYPSUM CEILING

B1 / 2A-162 | 3" = 1'-0"



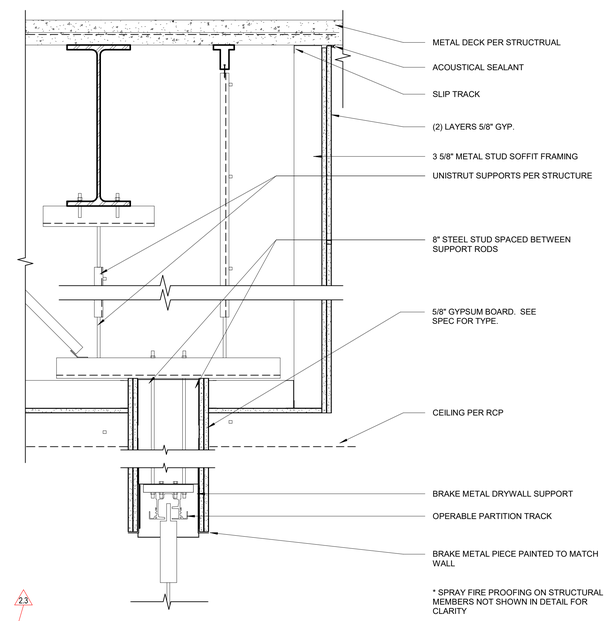
B1 LIGHT DETAIL @MP ROOM

A1 / 2A-163 | 3/4" = 1'-0"



B3 OPERABLE PARTITION @ LIGHT TROUGH

B1 / 2A-162 | 3" = 1'-0"



B5 OPERABLE PARTITION SUPPORT DETAIL

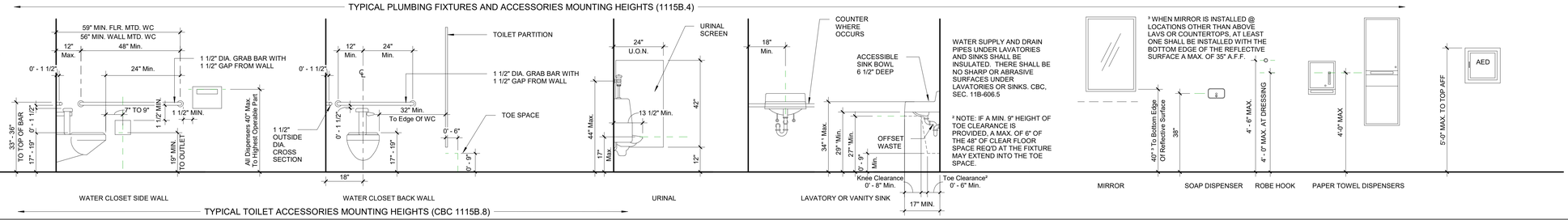
A1 / 2A-163 | 1 1/2" = 1'-0"

BUILDING DEPARTMENT NOTES:
FLUSH CONTROLS SHALL BE LOCATED 44 INCHES MAXIMUM ABOVE THE FLOOR ON THE OPEN SIDE OF THE WHEELCHAIR ACCESSIBLE WATER CLOSET. (CBC, SEC. 11B-604.6)

FOR THE ACCESSIBLE URINAL, HAND OPERATED FLUSH CONTROL SHALL BE MOUNTED AT A MAXIMUM HEIGHT OF 44 INCHES ABOVE FINISH FLOOR. (CBC, SEC. 11B-605.4)

FAUCET CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. (CBC, SECS. 11B-606.4, 11B-309.4)

TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS (1115B.4)



TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS (CBC 1115B.8)

A1 TYP PLUMBING FIXTURE AND ACCESSORY MOUNTING HEIGHTS

1/2" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

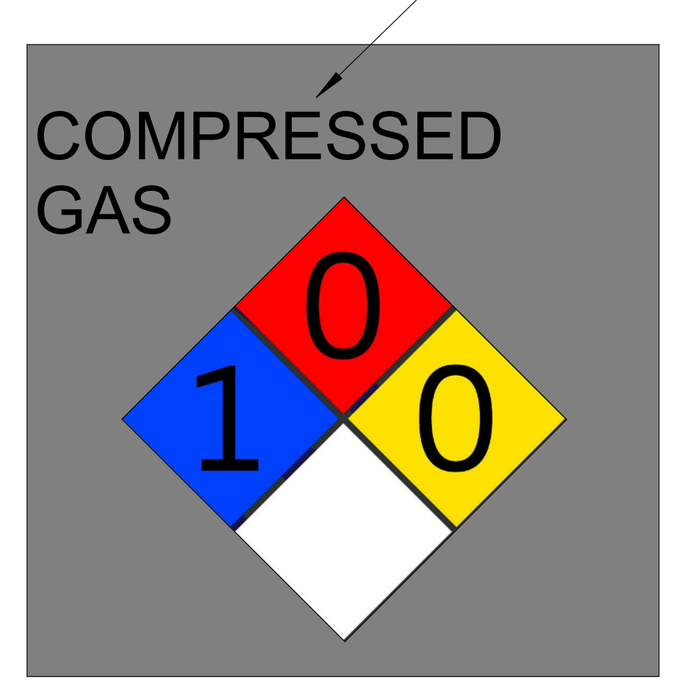
CITY SUBMITTAL SET
08.08.17

Sheet Title
INTERIOR DETAILS

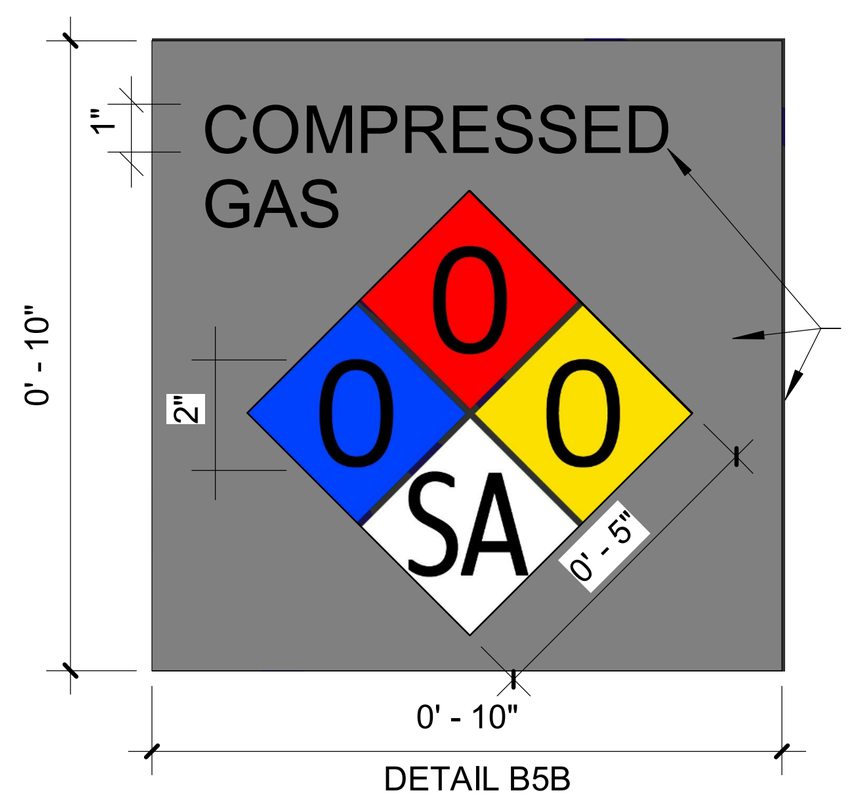
Sheet No.
2A-578

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

SEE DETAIL B5B FOR ADDITIONAL INFO NOT SHOWN HERE.



DETAIL B5A



0' - 10"

DETAIL B5B

SIGNAGE SHALL COMPLY WITH NFPA 704 AND THE REDWOOD CITY FIRE DEPARTMENT FPB POLICY H-08-2.

FOR ADDITIONAL INFORMATION NOT SHOWN HERE, SEE DETAIL E3 / 2A-581

E1 HAZARD MATERIAL SIGNAGE

3" = 1'-0"

FOR ADDITIONAL INFO NOT SHOWN HERE, SEE DETAIL E1 / 2A-581

INSTABILITY HAZARD RATING BACKGROUND COLOR YELLOW

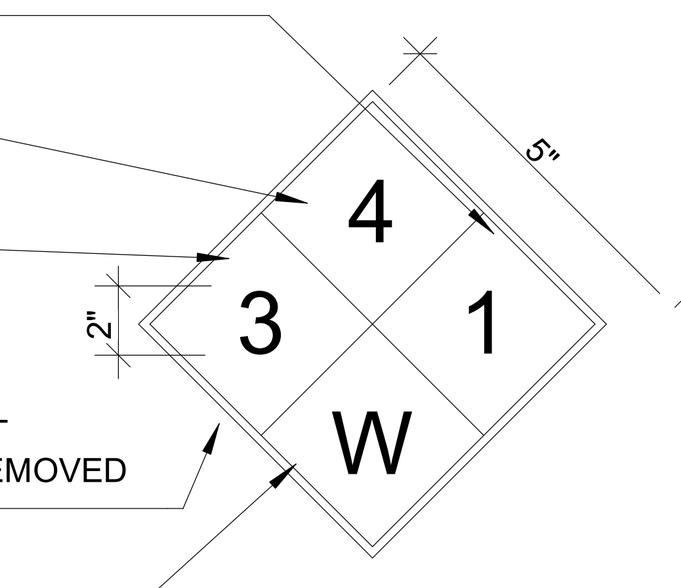
FLAMMABILITY HAZARD RATING BACKGROUND COLOR RED

HEALTH HAZARD RATING BACKGROUND COLOR BLUE

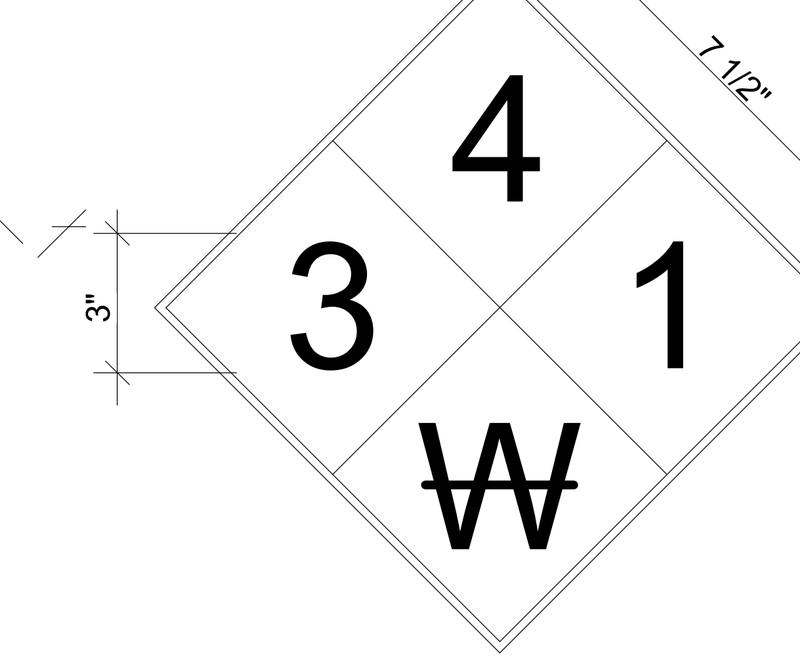
ALUMINUM TRIM (TO MATCH ROOM IDENTIFICATION TRIM) & TO PERMIT MODULAR COMPONENTS TO BE REMOVED AND REINSTALLED.

SPECIAL HAZARD BACKGROUND COLOR WHITE

LETTERING
COLOR: BLACK
FONT: ARIAL

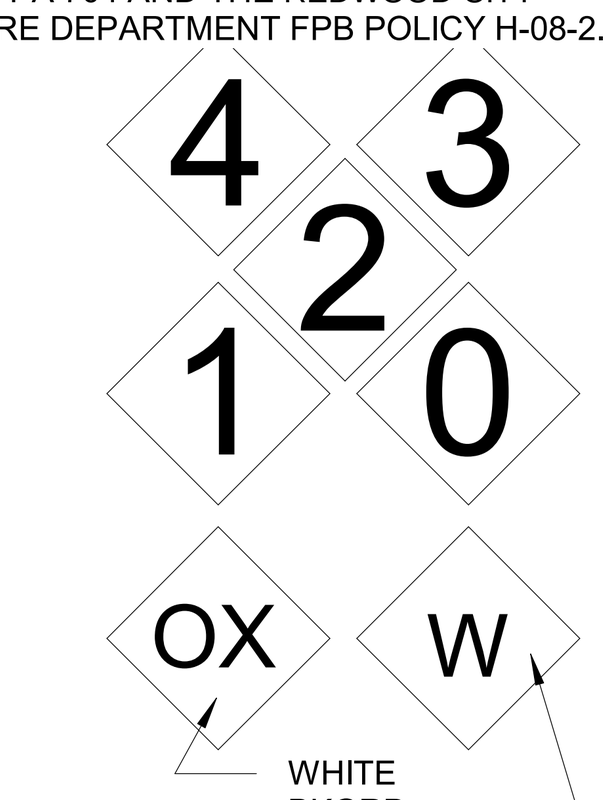


DETAIL A4B



DETAIL A4A

SIGNAGE SHALL COMPLY WITH NFPA 704 AND THE REDWOOD CITY FIRE DEPARTMENT FPB POLICY H-08-2.

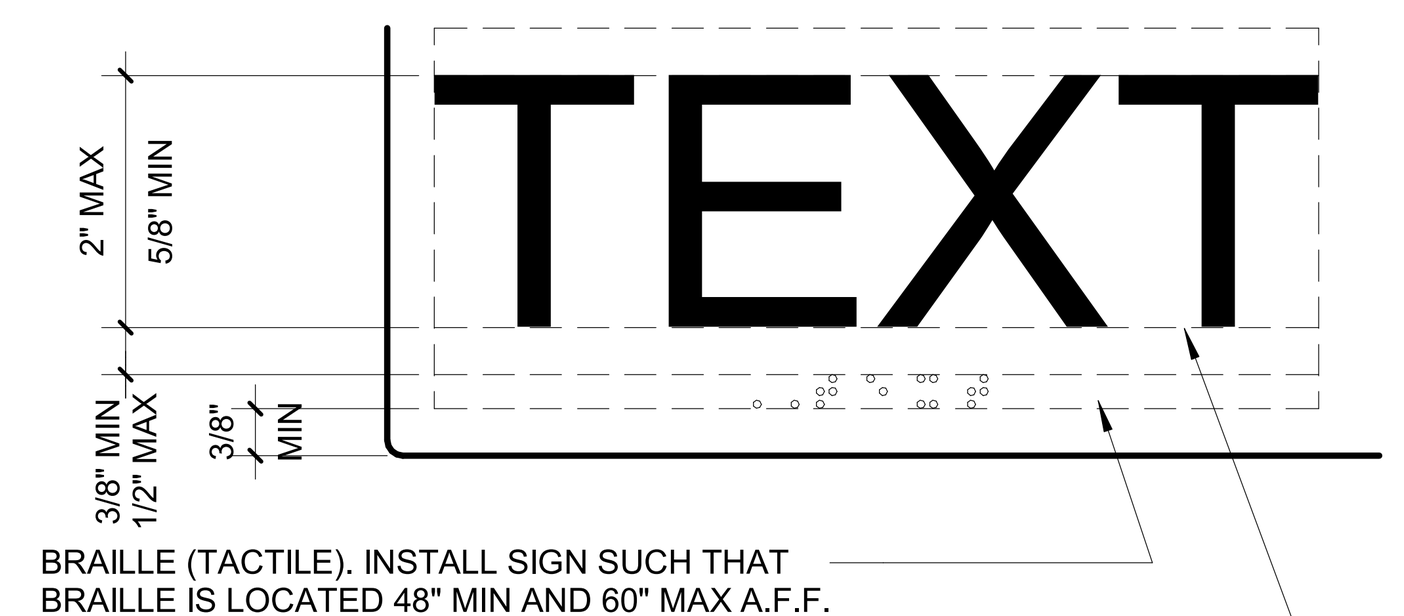


WHITE BKGRD ONLY

FOR SIGNS A4A & A4B, PROVIDE ATTIC STOCK FOR EACH MODULAR SIGN OF EACH DIGIT AND CHARACTERS FOR EACH COLOR BACKGROUND, TYPICAL.

E3 HAZARD MATERIAL SIGNAGE DETAIL

3" = 1'-0"



BRAILLE (TACTILE). INSTALL SIGN SUCH THAT BRAILLE IS LOCATED 48" MIN AND 60" MAX A.F.F. MEASURED FROM BASELINE

RAISED CHARACTERS (VISUAL) 40" MIN, 70" MAX A.F.F. MEASURED FROM BASELINE.

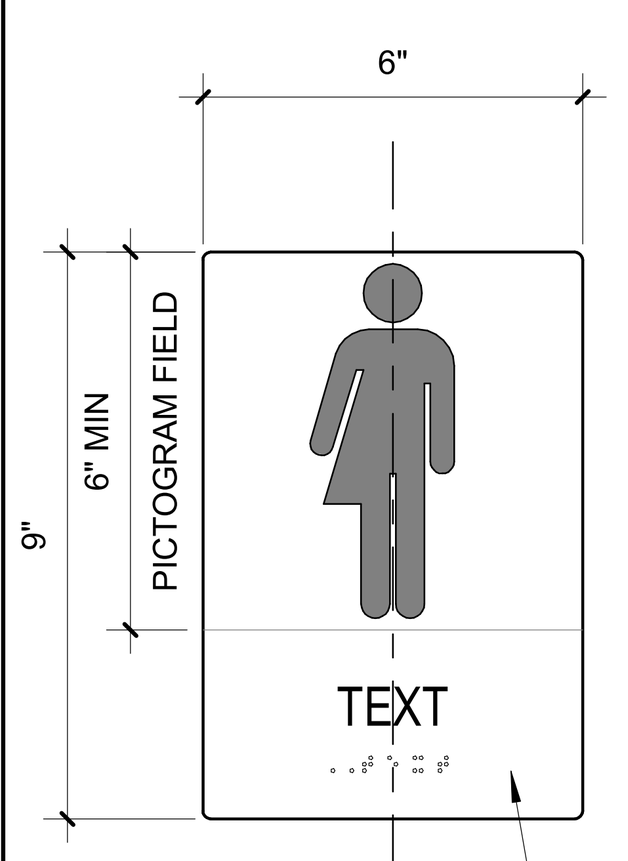
NOTES:
1. RAISED CHARACTERS SHALL COMPLY WITH 2016 CBC SECTION 11B-703.2.
2. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 2016 CBC SECTIONS 11B-703.3 AND 11B-703.4.
3. FOR INFORMATION NOT SHOWN HERE, SEE DETAIL: A4 / 2A-581

E5 VISUAL CHARACTER REQUIREMENTS

6" = 1'-0"

SIGNAGE GENERAL NOTES:

THESE DETAILS DESCRIBE THE 2016 CALIFORNIA BUILDING CODE SIGNAGE REQUIREMENTS NECCESSARY FOR ISSUANCE OF BUILDING PERMITS. ACTUAL SIGNS SHALL BE DESIGNED AND INSTALLED.



NOTES:
1. PICTOGRAMS SHALL COMPLY WITH 2016 CBC SECTION 11B-703.6.
2. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTORGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD PER 2016 CBC 11B-703.6.2
3. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH 2016 CBC SECTIONS 11B-703.6.3
4. FOR INFORMATION NOT SHOWN HERE, SEE DETAILS:E5 / 2A-581& A4 / 2A-581

VISUAL AND TACTILE CHARACTERS PER 2016 CBC 11B-703.2 & 703.3

D1 PICTOGRAM REQUIREMENTS

3" = 1'-0"



LETTERS SHALL BE 1" HIGH WITH 1/4" STROKES

"NO SMOKING" PICTOGRAM

LETTERS SHALL BE 1" HIGH WITH 1/4" STROKES

SIGNAGE SHALL COMPLY WITH CBC SECTIONS 1011 & 11B-703.6.1

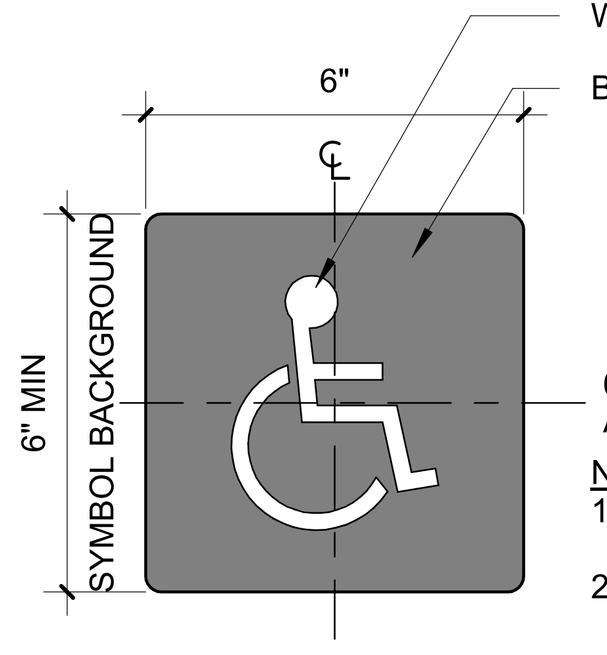
1. MATERIAL: TBS
2. BACKGROUND COLOR: TBD
3. LETTERING & PICTOGRAM: WHITE, RAISED 1/32"

D2 SIGN- NO SMOKING

3" = 1'-0"

WHITE SYMBOL

BLUE BACKGROUND

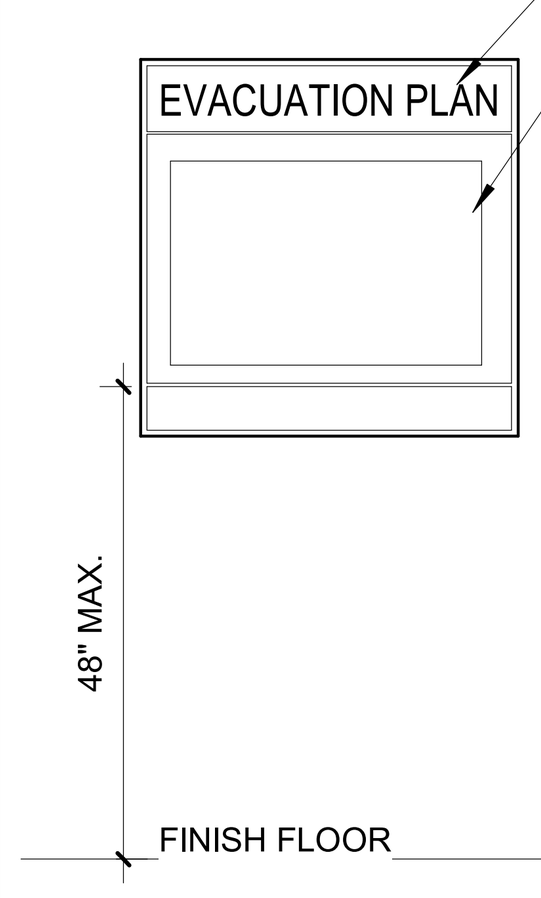


SIGN TYPE ISA

NOTES:
1. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 2016 CBC SECTION 11B-703.7.
2. INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) SHALL COMPLY WITH 2016 CBC FIGURE 11B-703.2.1. THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE COLOR SHALL APPROXIMATE FS 15090 IN FEDERAL STANDARD 595C.
3. FOR INFORMATION NOT SHOWN HERE, SEE DETAIL: B5 / 2A-581

D3 INTERNATIONAL SYMBOL OF ACCESSIBILITY1

3" = 1'-0"



TEXT 1" HIGH LETTERS.

PROVIDE CUSTOM FLOOR PLAN FOR EA. LEVEL. INDICATE EVACUATION ROUTES AND MEANS OF EGRESS.

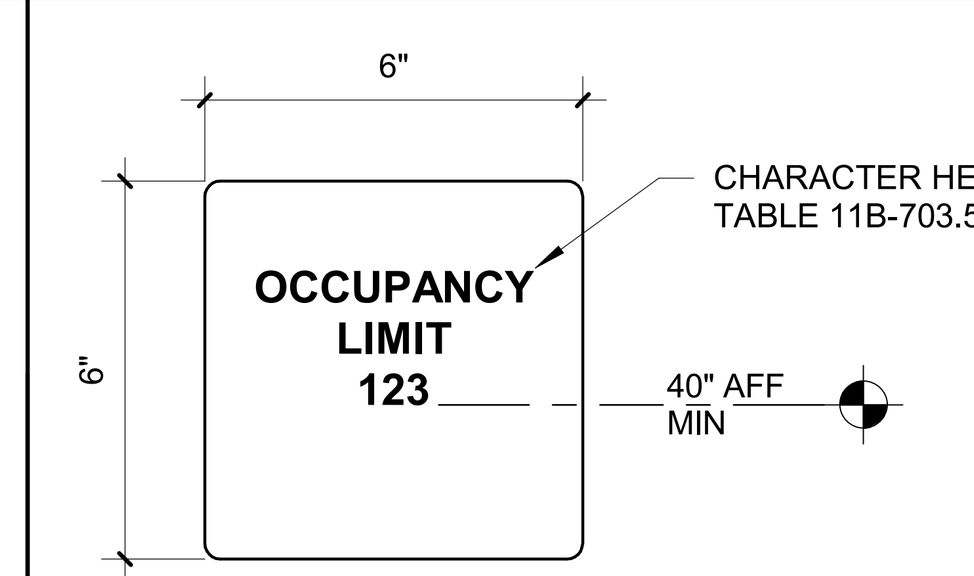
NOTE:
LOCATION OF EXITS
PRIMARY EVACUTAION ROUTES
SECONDARY EVACUTATION ROUTES
ACCESSIBLE EGRESS ROUTES
FIRE ALARM BOXES
FIRE EXTINGUISHERS
FIRE ALARM ANNUNICATORS AND CONTROLS

LISTINGS:
FIRE DEPARTMENT EMERGENCY TELEPHONE NUMBER 911
PROHIBITION OF ELEVATOR USE DURING EMERGENCIES

PROVIDE EVACUATION PLAN PER 2016 CALIFORNIA FIRE CODE SECTION 404 AND REDWOOD CITY FPB POLICY E-09-2
- SIGNAGE AT EVERY STAIRWAY ENTRANCES
- ELEVATOR LANDING
- DIRECTLY INSIDE ALL PUBLIC ENTRANCES

D4 EMERGENCY EVACUATION PLAN1

1 1/2" = 1'-0"



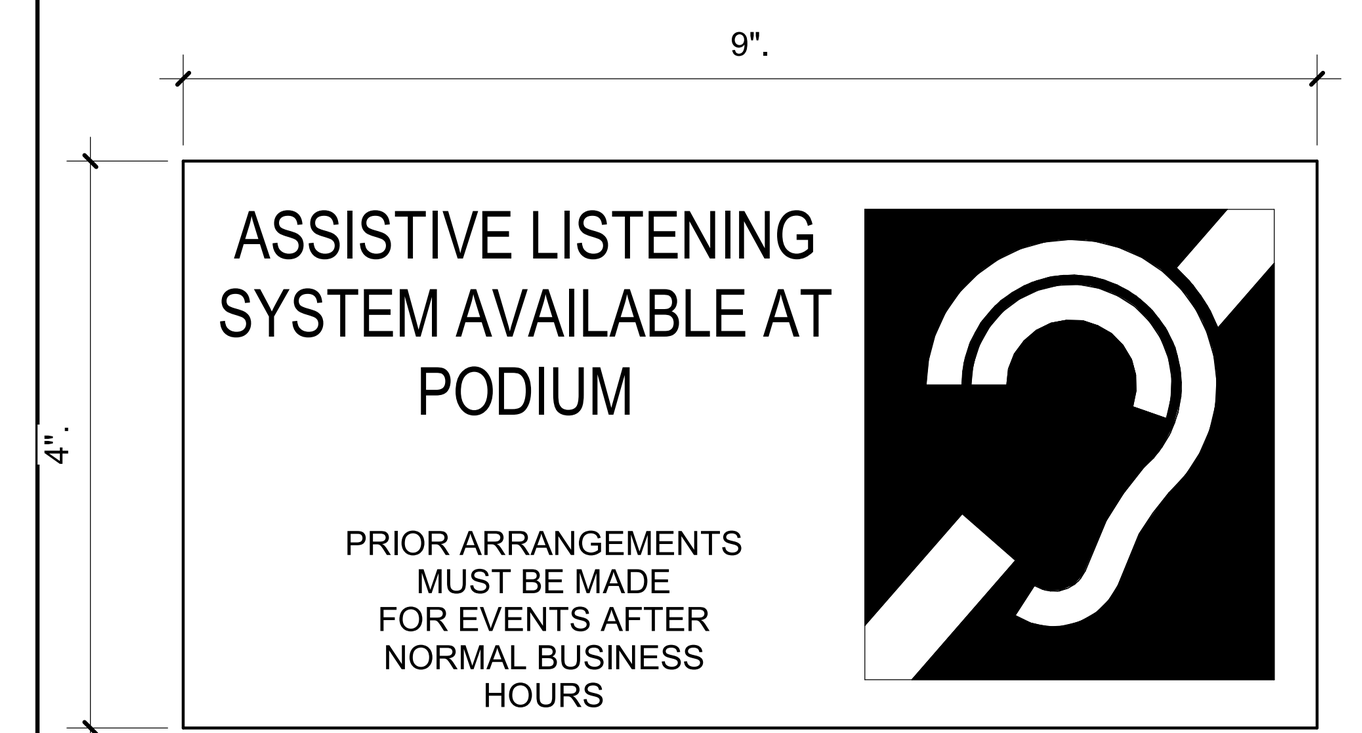
CHARACTER HEIGHT PER 2016 CBC TABLE 11B-703.5.5

NOTES:
1. PROVIDE POSTING OF OCCUPANT LOAD AT EVERY ROOM OR SPACE WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING, DRINKING OR SIMILAR PURPOSES HAVING AN OCCUPANT LOAD OF 50 OR MORE (WHETHER INDICATED ON PLANS OR NOT).
2. SIGN SHALL BE MOUNTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT OR EXIT ACCESS. POSTED SIGN SHALL BE A LEGIBLE PERMANENT DESIGN APPROVED BY THE AUTHORITY HAVING JURISDICTION.

REFERENCE:
2016 CBC SECTION 1004.3
2016 CBC SECTION 11B-703.5

D5 OCCUPANT LOAD LIMIT SIGNAGE

3" = 1'-0"

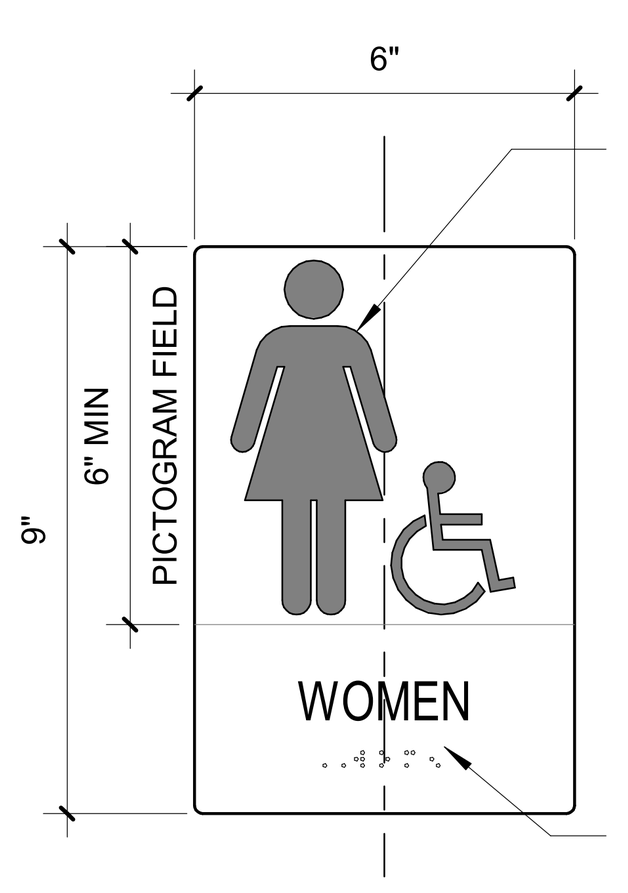


NOTES:
1. DEVICES TO MEET CBC 11B-706.1 AND PROVIDED BY GC
2. GC SHALL PROVIDE MIN. 1 FOR EACH CONFERENCE ROOM AND MULTIPURPOSE ROOM
3. SIGNAGE SHALL COMPLY WITH 2016 CBC SEC. 11B-703.7.2.4
4. SYMBOL TO COMPLY WITH FIGURE 11B-703.7.2.4 INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

2.3

D6 ASSISTED LISTENING DEVICE

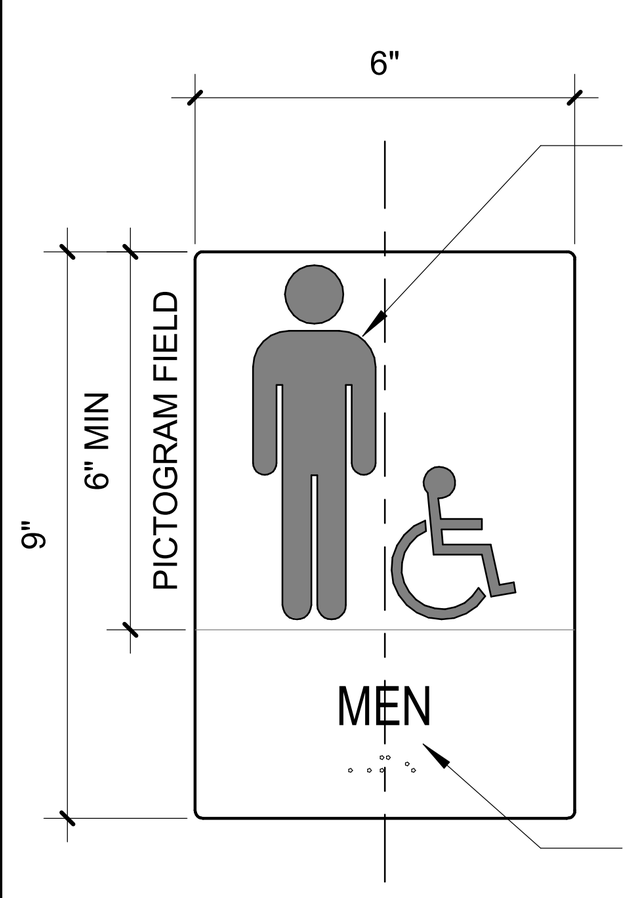
3" = 1'-0"



FOR PICTOGRAM REQUIREMENTS NOT SHOWN HERE, SEE DETAIL: D1 / 2A-581

FOR MOUNTING HEIGHT INFORMATION, SEE DETAIL: A4 / 2A-581

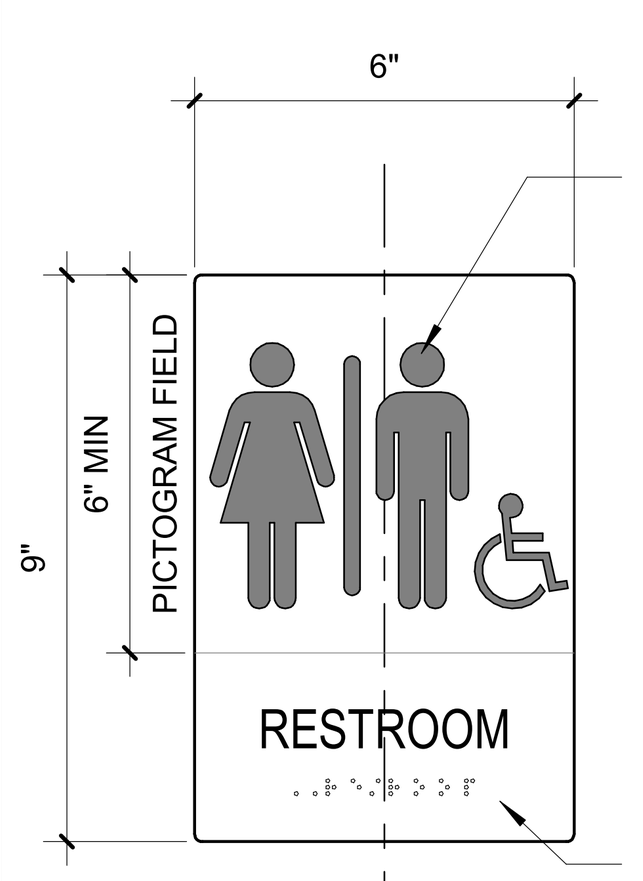
FOR CHARACTER REQUIREMENTS NOT SHOWN HERE, SEE DETAIL: E5 / 2A-581



FOR PICTOGRAM REQUIREMENTS NOT SHOWN HERE, SEE DETAIL:D1 / 2A-581

FOR MOUNTING HEIGHT INFORMATION, SEE DETAIL: A4 / 2A-581

FOR CHARACTER REQUIREMENTS NOT SHOWN HERE, SEE DETAIL: E5 / 2A-581



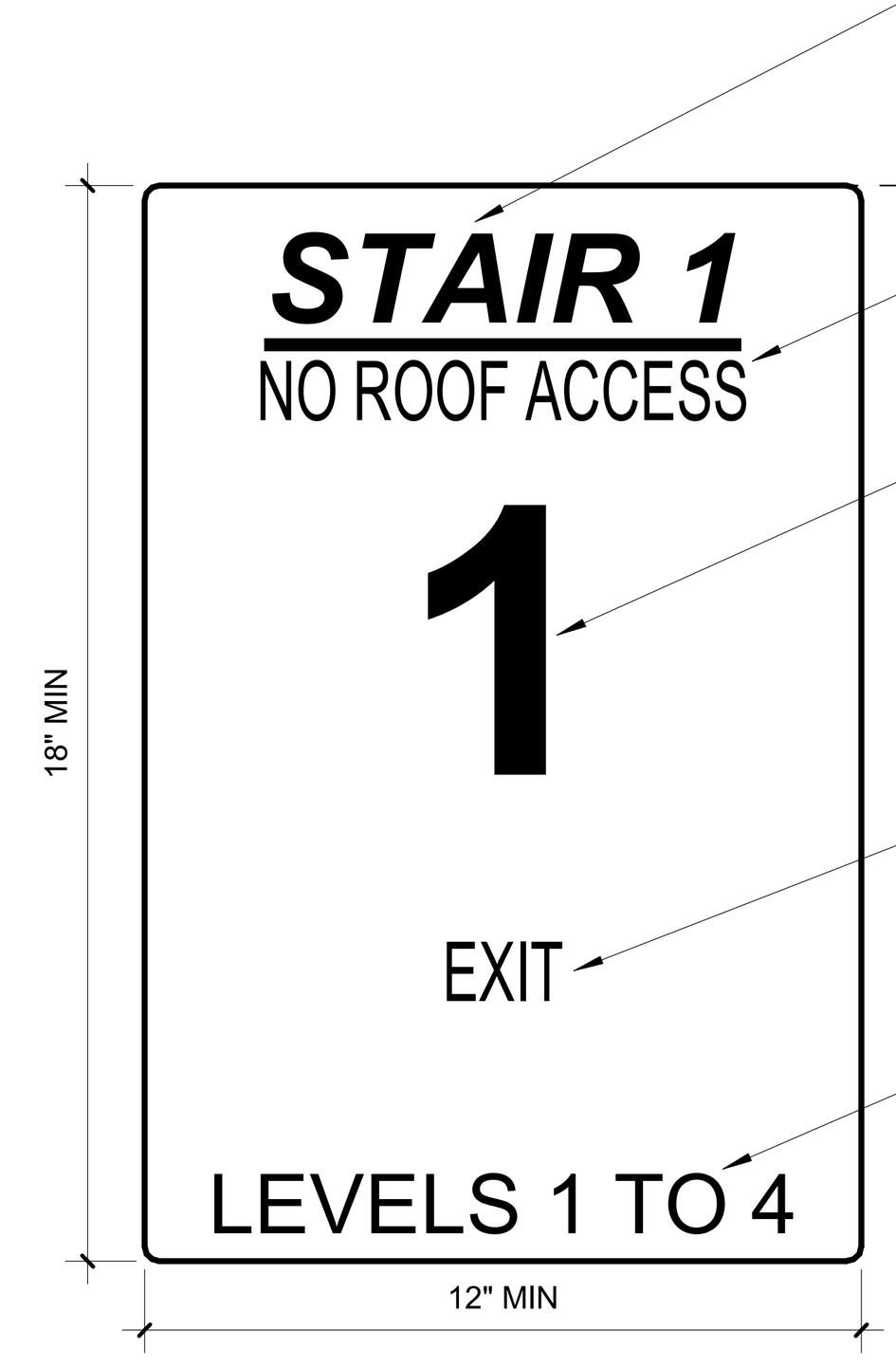
FOR PICTOGRAM REQUIREMENTS NOT SHOWN HERE, SEE DETAIL: D1 / 2A-581

FOR MOUNTING HEIGHT INFORMATION, SEE DETAIL: A4 / 2A-581

FOR CHARACTER REQUIREMENTS NOT SHOWN HERE, SEE DETAIL: E5 / 2A-581

A1 RESTROOM WALL SIGNS

3" = 1'-0"



SIGN TYPE STX
LEVEL OF EXIT DISCHARGE

STAIRWAY IDENTIFICATION. LETTERS SHALL BE MINIMUM 1 1/2" HIGH WITH 1/4" STROKES.

60" AFF

UPPER TERMINUS DESCRIPTION. LETTERS SHALL BE 1" HIGH WITH 1/4" STROKES.

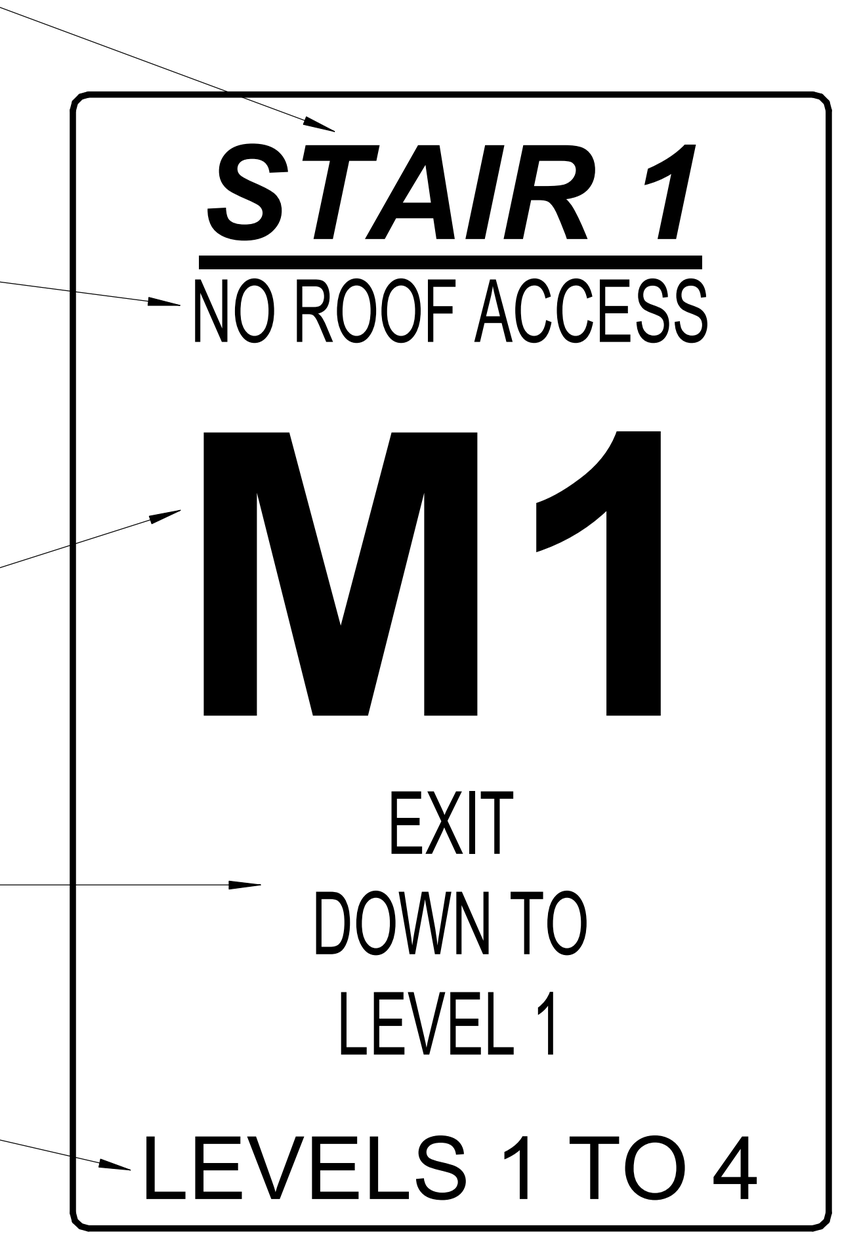
FLOOR LEVEL NUMBERING. LETTERS & NUMERALS SHALL BE MINIMUM 5" HIGH WITH 3/4" STROKES AND LOCATED IN THE MIDDLE OF SIGN. THE LETTER "M" SHALL PROCEED MEZZANINE LEVELS AND THE LETTER "B" SHALL PROCEED BASEMENT LEVELS.

DIRECTIONS TO LEVEL OF DISCHARGE. LETTERS SHALL BE MINIMUM 1" HIGH. STATE STORY OF AND DIRECTION TO EXIT DISCHARGE.

LOWER & UPPER TERMINUS. LOCATED AT BOTTOM OF SIGN. LETTERS SHALL BE 1" HIGH WITH 1/4" STROKES.

NOTE:
CHARACTERS AND THEIR BACKGROUND SHALL HAVE NON-GLARE FINISH AND CONTRAST WITH EACH OTHER.

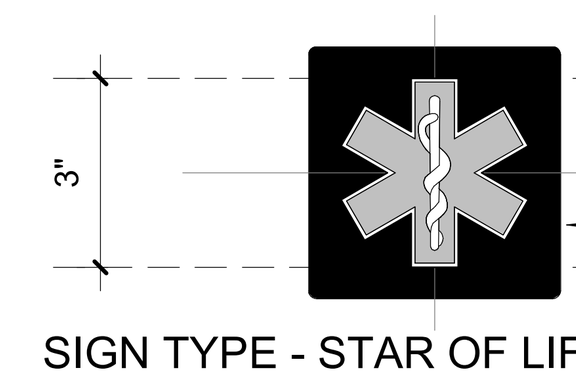
REFERENCE:
2016 CBC SECTION 1023.9



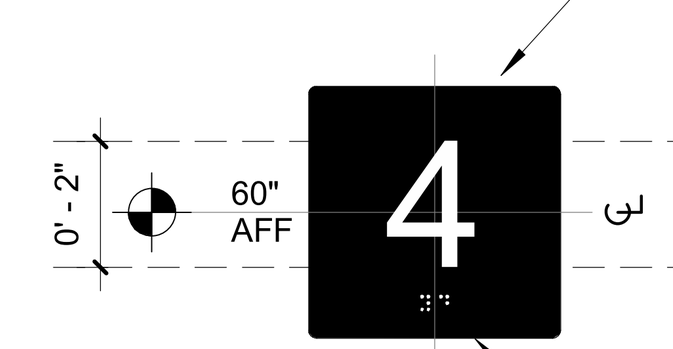
SIGN TYPE STT
TYPICAL LEVEL

B2 SIGN TYPES - STAIRWAY IDENTIFICATION

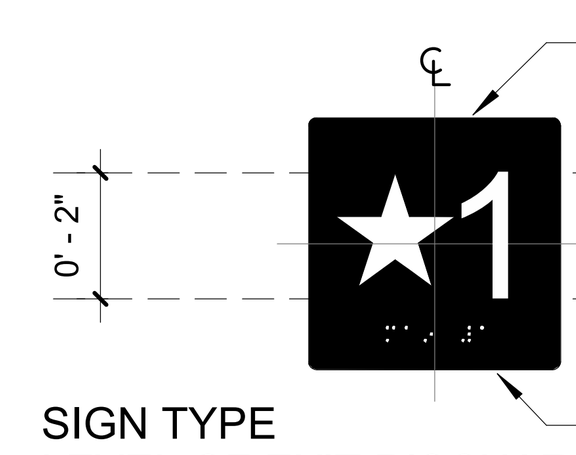
3" = 1'-0"



SIGN TYPE - STAR OF LIFE



SIGN TYPE
TYPICAL LEVEL



SIGN TYPE
LEVEL OF EXIT DISCHARGE

FOR CHARACTER REQUIREMENTS NOT SHOWN HERE, SEE DETAIL: E5 / 2A-581

INTERNATIONAL SYMBOL FOR EMERGENCY SERVICES (STAR OF LIFE)

RAISED CHARACTER(S). 2" TALL. WHITE ON BLACK BACKGROUND.

BRAILLE. CONTRACTED GRADE 2.

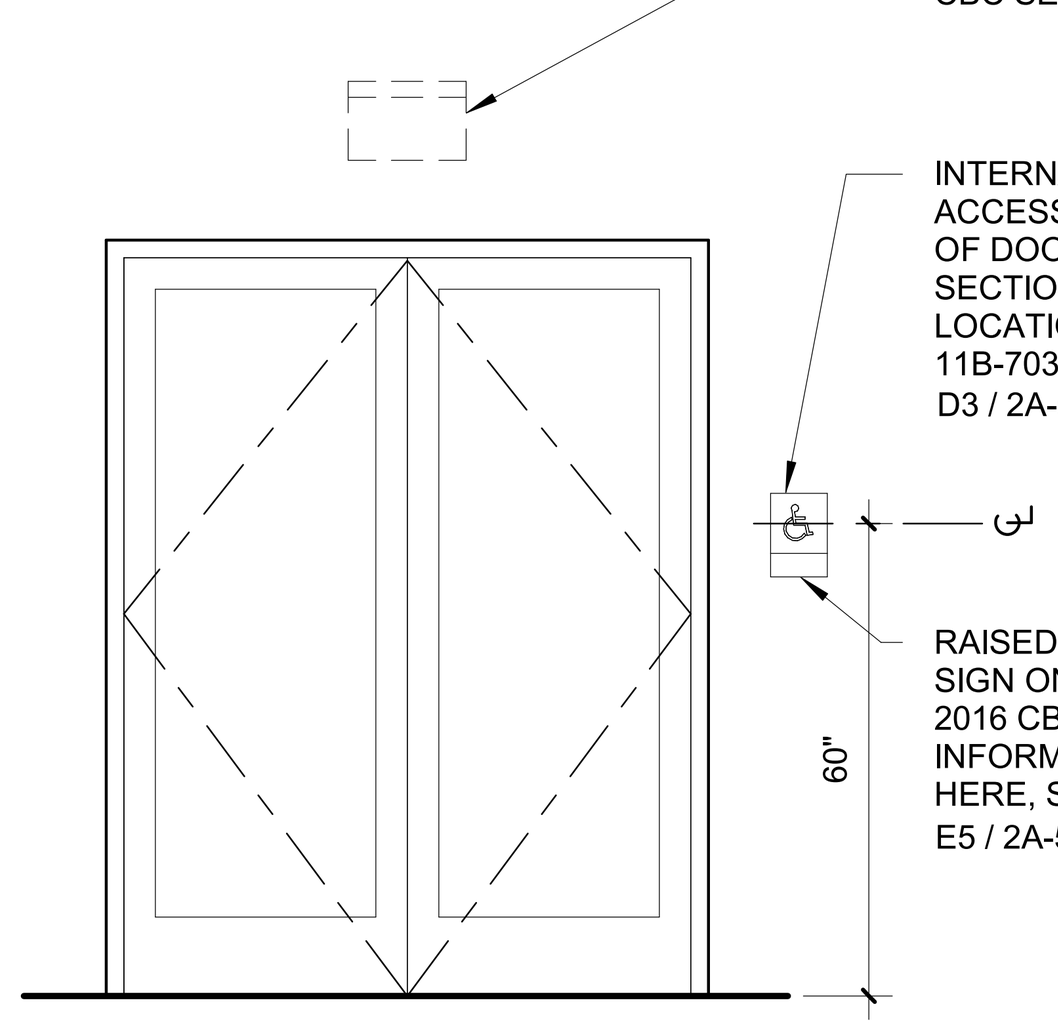
FIVE POINT STAR. RAISED CHARACTER TO THE LEFT OF FLOOR DESIGNATION. 2" OUTSIDE DIAMETER WITH ALL POINTS OF EQUAL LENGTH.

BRAILLE. CONTRACTED GRADE 2. TRANSLATION FOR STAR SHALL BE "MAIN".

REFERENCE:
2016 CBC SECTION 1023.9 (STAIRWAY)
2016 CBC SECTION 11B-407.2.3.1, FIGURE 11B-407.2.3.1 (ELEVATOR)

B4 SIGN TYPES FLOOR DESIGNATION

3" = 1'-0"



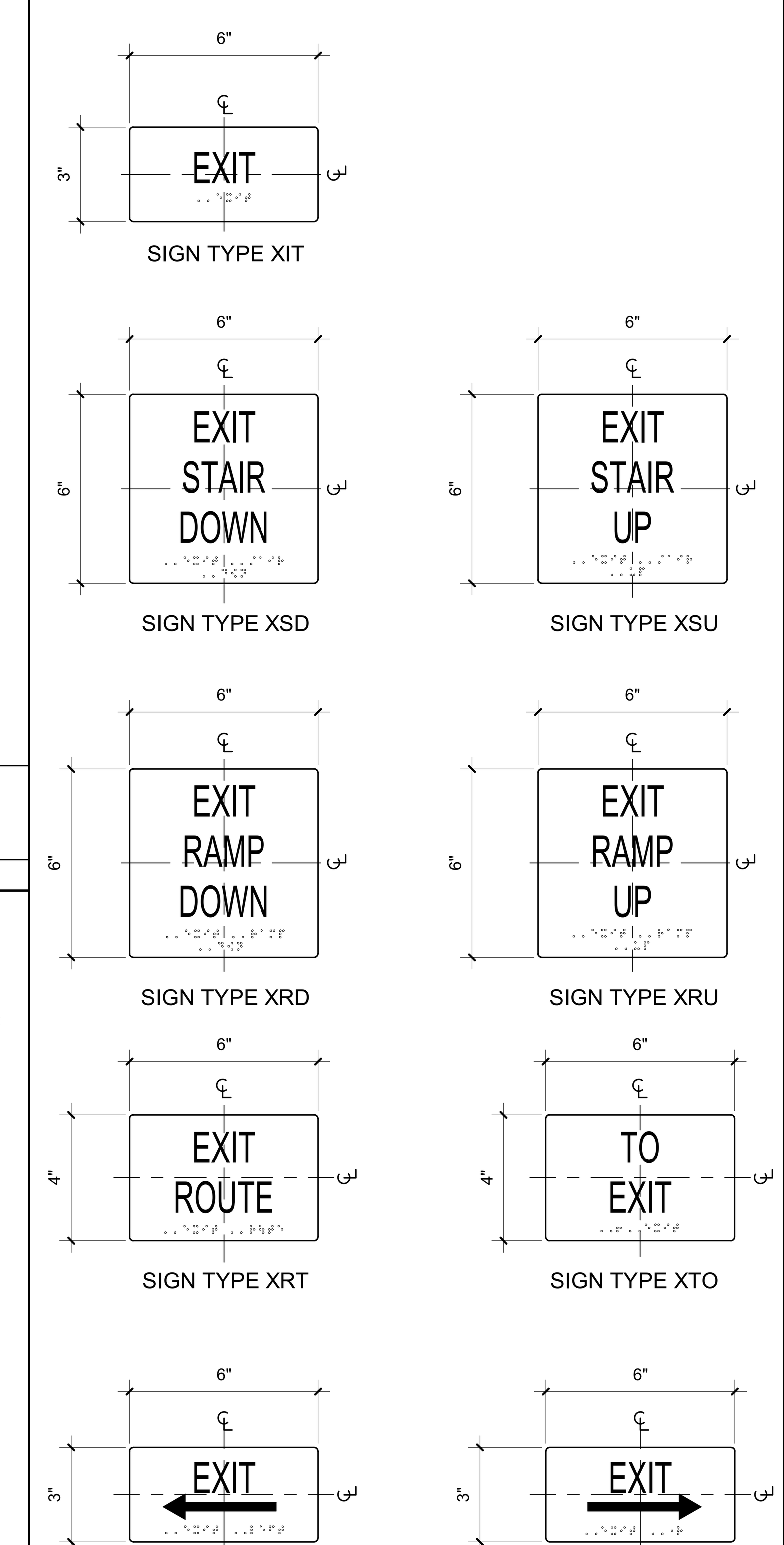
ILLUMINATED EXIT SIGN ON INTERIOR SIDE PER 2016 CBC SECTION 1013

INTERNATIONAL SYMBOL OF ACCESSIBILITY EACH SIDE OF DOOR PER 2016 CBC SECTION 11B-703.7.2.1. LOCATION PER 2016 CBC 11B-703.4.2. SEE DETAIL: D3 / 2A-581

RAISED CHARACTER "EXIT" SIGN ON INTERIOR SIDE PER 2016 CBC 1013.4. FOR INFORMATION NOT SHOWN HERE, SEE DETAIL: E5 / 2A-581

B5 ACCESSIBLE BUILDING ENTRANCE

3/8" = 1'-0"

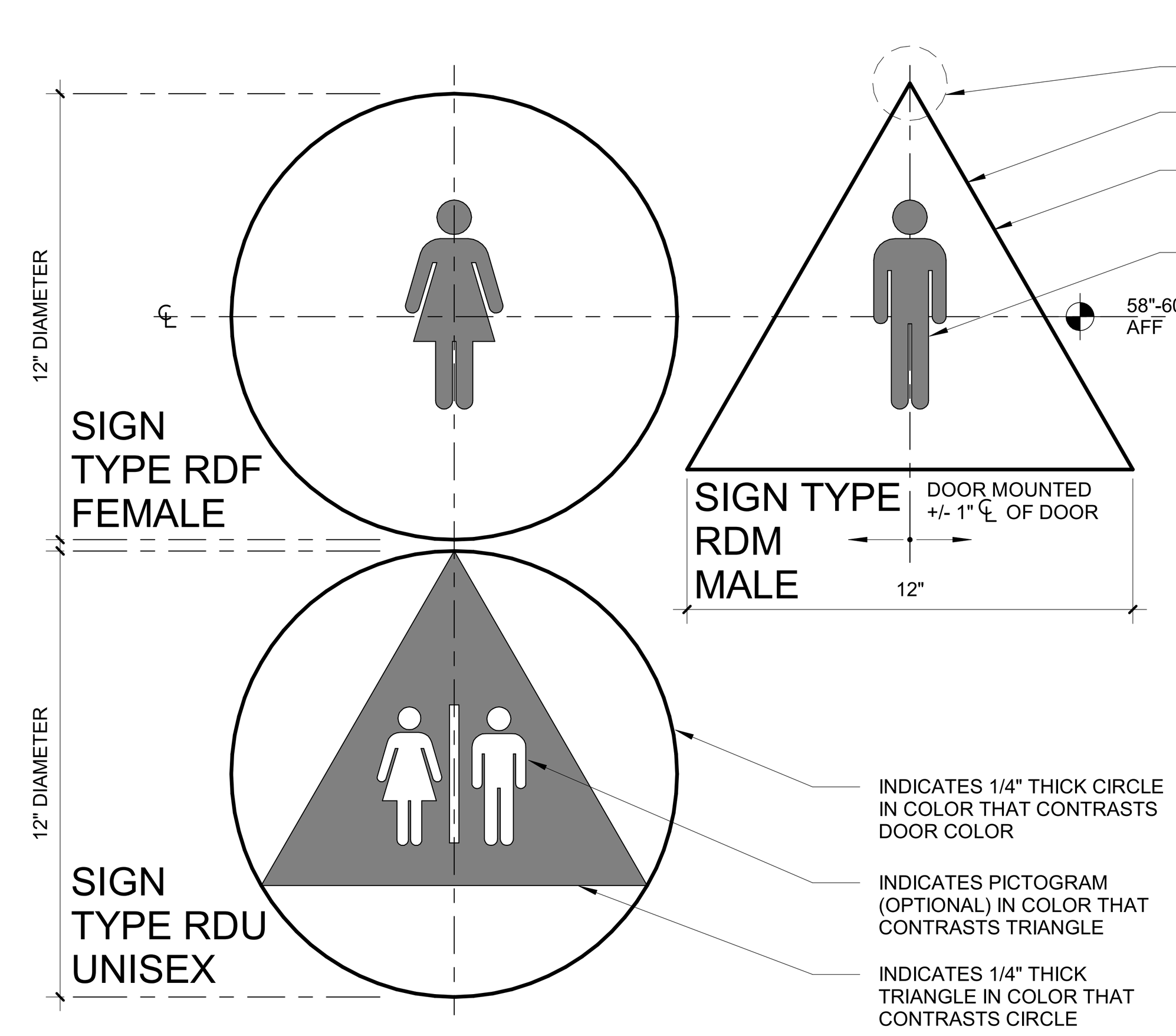


NOTE:
FOR INFORMATION ON RAISED AND TACTILE CHARACTERS, SEE DETAIL: E5 / 2A-581

REFERENCE:
2016 CBC SECTION 1013.4

A6 EXIT / EXIT ROUTE SIGNS

3" = 1'-0"



SEE INSET DETAIL 'A'

INDICATES 1/4" THICK SHAPE IN COLOR THAT CONTRASTS DOOR COLOR

PROVIDE RADIUSED EDGES PER INSET DETAIL 'B' OR CHAMFERED EDGES PER INSET DETAIL 'C', TYP.

INDICATES PICTOGRAM (OPTIONAL) IN COLOR THAT CONTRASTS WITH BACKGROUND SHAPE

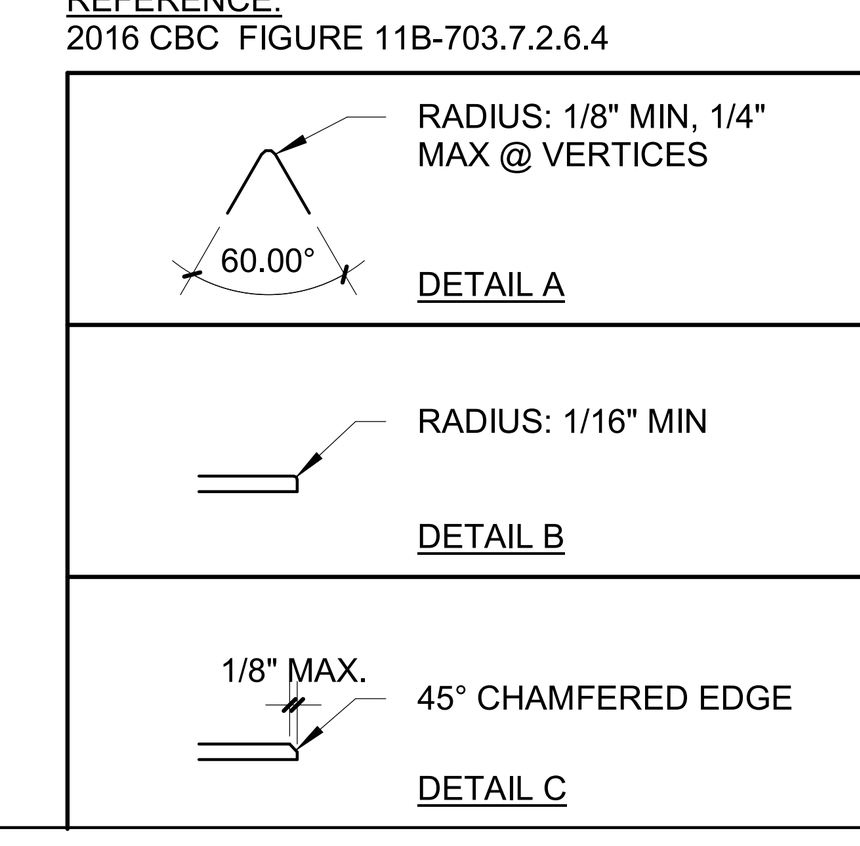
NOTES:
1. SIGNS SHALL BE APPLIED TO DOORS WITH NO VISIBLE FASTENERS.
2. TOILET AND BATHING FACILITIES GEOMETRIC SYMBOLS SHALL COMPLY WITH 2016 CBC 11B-703.7.2.6.

REFERENCE:
2016 CBC FIGURE 11B-703.7.2.6.4

INDICATES 1/4" THICK CIRCLE IN COLOR THAT CONTRASTS DOOR COLOR

INDICATES PICTOGRAM (OPTIONAL) IN COLOR THAT CONTRASTS TRIANGLE

INDICATES 1/4" THICK TRIANGLE IN COLOR THAT CONTRASTS CIRCLE



A2 SIGN TYPES - RESTROOM DOOR SIGNAGE

3" = 1'-0"

WALL MOUNTED SIGN TO BE LOCATED ON LATCH SIDE OF DOOR AND CLEAR OF DOOR SWING. MOUNTING HEIGHT SHALL BE PER 2016 CBC 11B-703.4.1

LOCATION FOR SIGNAGE @ DOUBLE DOORS MUST MEET REQUIREMENTS OF 2016 CBC 11B-703.4.2.

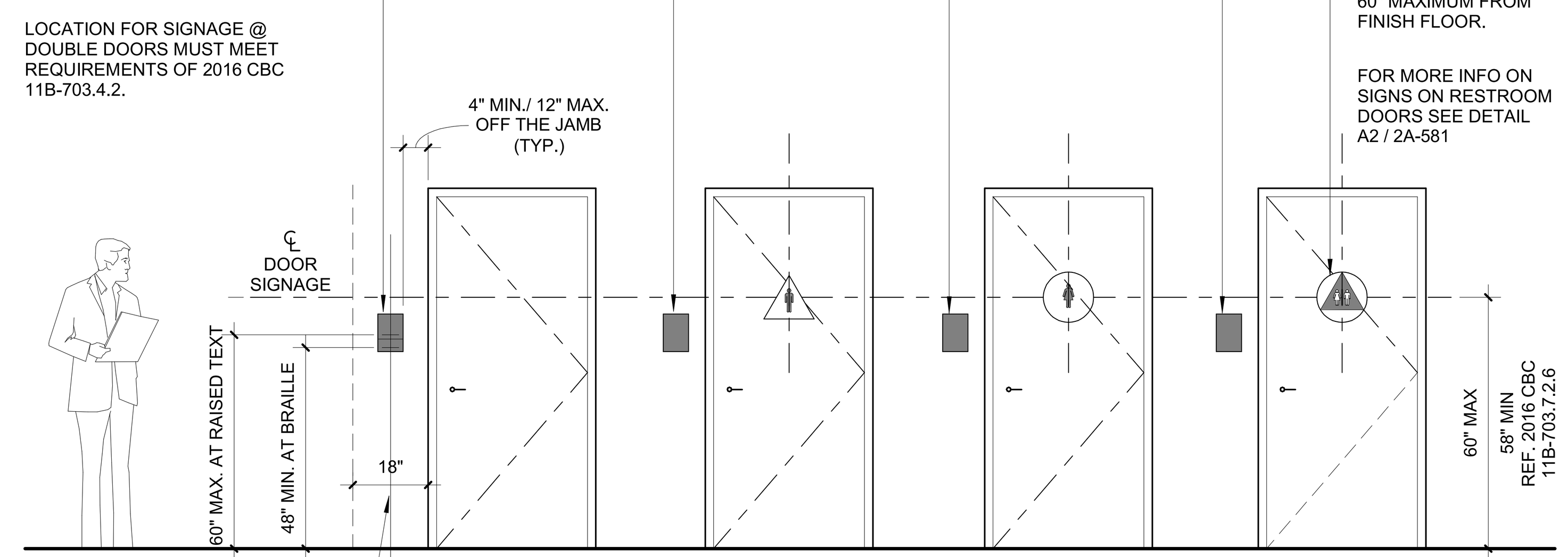
SIGN TYPE RWM: MEN'S RESTROOM WALL SIGN. SEE DETAIL

SIGN TYPE RWF: WOMEN'S RESTROOM WALL SIGN. SEE DETAIL

SIGN TYPE RWU: UNISEX RESTROOM WALL SIGN. SEE DETAIL A1 / 2A-581

TOILET AND BATHING FACILITIES GEOMETRIC SYMBOLS (SIGN TYPES RDF, RDM, AND RDU). CENTERLINE OF SIGNS SHALL BE 58" MINIMUM, 60" MAXIMUM FROM FINISH FLOOR.

FOR MORE INFO ON SIGNS ON RESTROOM DOORS SEE DETAIL A2 / 2A-581



18"x18" CLEAR SPACE IN FRONT OF AND TO THE SIDES OF SIGN. CLEAR SPACE TO BE CENTERED ON TACTILE CHARACTERS. TYPICAL @ ALL SIGNAGE

NOTE:
1. SIGNAGE SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF 2016 CBC SECTION 11B-703.
2. FOR INFORMATION NOT SHOWN HERE, SEE DETAIL: E5 / 2A-581

A4 TYPICAL SIGN MOUNTING HEIGHTS

3/8" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
SIGNAGE DETAILS

Sheet No.
2A-581

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MATERIAL: MIN. 0.040" ALUMINUM

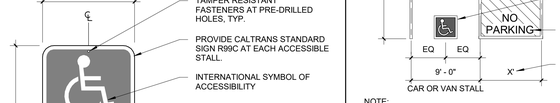
BACKGROUND: BLACK OR BLUE BACKGROUND, EQUIV. TO COLOR #15090 FEDERAL STANDARD 595B

PICTOGRAM: WHITE

SIGNAGE SHALL COMPLY WITH CBC SECTIONS 1009.10 & 11B-703.5

E6 AREA OF RESCUE ASSISTANCE

6" = 1'-0"

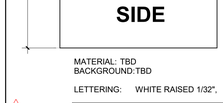


NOTE:
- SURFACE SLOPES OF ACCESSIBLE PARKING SPACES AND ACCESS AISLES IN BOTH DIRECTIONS TO NOT BE STEEPER THAN 1:48 (2.083%)
- SEE SITE PLAN FOR SPECIFIC PARKING DIMENSIONS.

REFERENCE: 2016 CBC 11B-502

D5 ACCESSIBLE PARKING STALL STRIPING PLAN

1/8" = 1'-0"



PROVIDE ROOM NAME PER PLANS
LETTERS SHALL BE 1" HIGH WITH 1/4" STROKES

MATERIAL: TBD
BACKGROUND:TBD

LETTERING: WHITE RAISED 1/32",

SIGNAGE SHALL COMPLY WITH CBC SECTIONS 1011 & 11B-703 AND CFC 509

D6 SIGN- WAREHOUSE DOOR

3" = 1'-0"

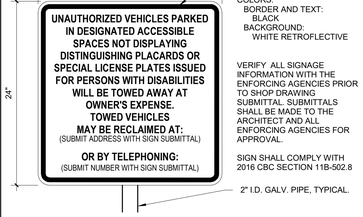


NOTES:
1. COMPLY WITH 2016 CBC SECTION 11B-502.6
2. LOCATE SIGN AT CENTER OF ACCESSIBLE PARKING STALL
3. WHERE PLAQUE R99B (CA), SIGN R99C (CA), OR SIGN R7-8b ARE INSTALLED, THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 7'-0" ABOVE THE SURROUNDING GROUND SURFACE

REFERENCE: 2016 CBC SECTION 11B-502.6

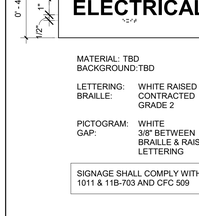
D4 ACCESSIBLE PARKING SIGNAGE

1 1/2" = 1'-0"



C5 SIGN TYPE TOW

1 1/2" = 1'-0"



MATERIAL: TBD
BACKGROUND:TBD

LETTERING: WHITE RAISED 1/32",
BRAILLE: CONTRACTED GRADE 2

PICTOGRAM: WHITE
GAP: 3/8" BETWEEN BRAILLE & RAISED LETTERING

SIGNAGE SHALL COMPLY WITH CBC SECTIONS 1011 & 11B-703 AND CFC 509

C6 SIGN- UTILITY AND FIRE EQUIPMENT

3" = 1'-0"

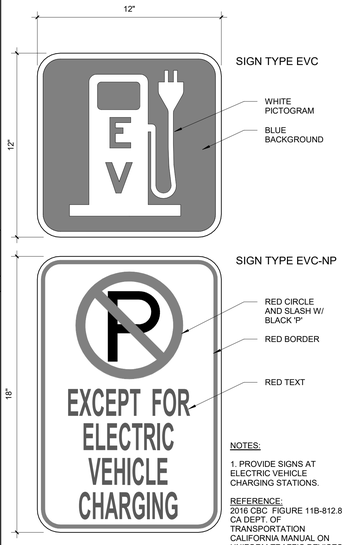


NOTES
1. ENTER SYMOL IN EACH PARKING STALL
2. SYMBOL SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFICE ENFORCEMENT OFFICER WHEN A VEHICLE IS PARKIED IN THE SPACE.

REFERENCE: 2016 CBC 11B-703.7.2.1

B4 ACCESSIBLE PARKING SYMBOL

3/4" = 1'-0"



NOTES:

1. PROVIDE SIGNS AT ELECTRIC VEHICLE CHARGING STATIONS.

REFERENCE:
2016 CBC FIGURE 11B-812.8, CA DEPT. OF TRANSPORTATION CALIFORNIA MANUAL ON UNIFORM TRAFFIC DEVICES, SIGN G66-21B AND R113A(CA)

A5 SIGN TYPES EVC, EVC-NP

3" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
B 2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
SIGNAGE DETAILS

Sheet No.
2A-582

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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MEMBER DEPTH:
(EXAMPLE: 6" = 600 X 1/100 INCHES)
ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES.
FOR ALL "T" SECTIONS, MEMBER DEPTH IS THE INSIDE TO INSIDE DIMENSION.

STYLE:
(EXAMPLE: STUD OR JOIST SECTION = S)
THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:
S = STUD OR JOIST SECTIONS
T = TRACK SECTIONS
U = CHANNEL SECTIONS
F = FURRING CHANNEL SECTIONS

600S162-54

FLANGE WIDTH:
(EXAMPLE: 1 5/8" = 1.625" = 162 X 1/100 INCHES)
ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

MATERIAL THICKNESS:
(EXAMPLE: 0.054 IN. = 54 MILS; 1 MIL = 1/1000 IN.)
MATERIAL THICKNESS IN THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

GAUGE CHART (FOR REFERENCE ONLY)

MILS	DESIGN THICKNESS (IN.)	GAUGE NO.
18	0.0188	25
27	0.0283	22
30	0.0312	20 - DRYWALL
33	0.0346	20 - STRUCTURAL
43	0.0451	18
54	0.0566	16
68	0.0713	14
97	0.1017	12

* SECTION PROPERTIES SHALL BE IN COMPLIANCE WITH THE SSMA ICC ESR-3064P.
PROVIDE Fy = 50 KSI FOR MEMBERS 54 MILS AND GREATER.

** SECTION PROPERTIES FOR SHAFT WALLS SHALL BE IN COMPLIANCE WITH AER-12061.

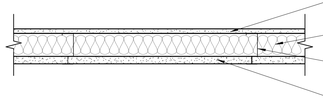
◇ : ADJUST STUD SPACING TO 16" O.C. MAX WHERE WALL IS INDICATED TO RECEIVE A CERAMIC TILE FINISH.

22

WALL TYPE - F

TYPE	FIRE RATING	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	WALL HEIGHT	STUD**	STUD SPACING
F	1HR	GA# WP 7024.1			4 5/8"	D3A/2A-511	400CH-34	24" O.C.

1 HR SHAFT WALL



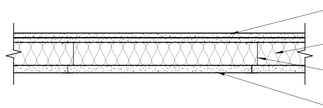
TYPE
F AS INDICATED.

WALL TYPE - G

TYPE	FIRE RATING	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	WALL HEIGHT	STUD**	STUD SPACING
G	2HR	GA# WP 7051	54 STC	GA# WP 7051	5 1/4"	D3A/2A-511	400CH-34	24" O.C.
G1	2HR	GA# WP 7051	54 STC	GA# WP 7051	7 1/4"	D3A/2A-511	600CH-34	24" O.C.

22

2 HR SHAFT WALL



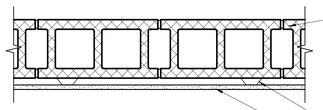
TYPE
G AS INDICATED.
G1 AS INDICATED, EXCEPT USE STUD AS SCHEDULED.

WALL TYPE - H

TYPE	FIRE RATING	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	WALL HEIGHT	STUD	STUD SPACING
H	2-HR	2016 CBC TABLE 7.21.(2) 3			9 1/2"	D3A/2A-511	087F125-33	24" O.C.

22

CMU WALL AT



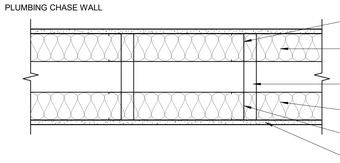
TYPE
H AS INDICATED.

WALL TYPE - J

TYPE	FIRE RATING	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	WALL HEIGHT	STUD*	STUD SPACING
J	NR		50-54 STC	GA# WP 5015	16 1/2"	D3A/2A-511	362S162-33	16" O.C.
J1	NR		50-54 STC	GA# WP 5015	24 1/2"	D3A/2A-511	362S162-33	16" O.C.
J2	NR		50-54 STC	GA# WP 5015	10 1/2"	D3A/2A-511	362S162-33	16" O.C.

22

PLUMBING CHASE WALL



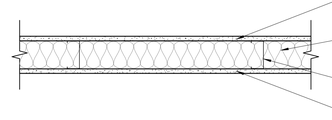
TYPE
J AS INDICATED.
J1 SAME AS "J" EXCEPT WIDTH AS INDICATED ON PLANS
J2 SAME AS "J" EXCEPT WIDTH AND HEIGHT AS INDICATED ON PLANS

RFI 2-00080 Corridor Wall and 6in.RD PVC Coated Exhaust Duct

WALL TYPE - A

TYPE	FIRE RATING	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	WALL HEIGHT	STUD*	STUD SPACING
A	NR					D3B/2A-511	362S162-33	24" O.C.
A1	NR		45 STC	INSUL CALCULATION	4 7/8"	D3A/2A-511	362S162-33	24" O.C.
A2	1HR	GA# WP 1072			4 7/8"	D3A/2A-511	362S162-33	24" O.C.
A3	NR		43 STC	INSUL CALCULATION	4 7/8"	D3B/2A-511	362S162-33	16" O.C.
A4	1HR	GA# WP 1072			4 7/8"	D3A/2A-511	362S162-33	16" O.C.

TYPICAL FLEX ROOM WALLS TYPE A1

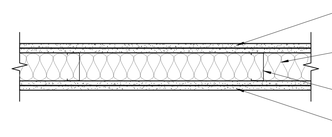


TYPE
A AS INDICATED.
A1 SAME AS TYPE A, EXCEPT FULL HEIGHT.
A2 SAME AS TYPE A1, EXCEPT 1 HOUR FIRE RATED.
A3 SAME AS TYPE A, EXCEPT USE STUD SPACING AS SCHEDULED.
A4 SAME AS TYPE A2, EXCEPT USE STUD SPACING AS SCHEDULED - 1 HOUR FIRE RATED.

WALL TYPE - B

TYPE	FIRE RATING	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	WALL HEIGHT	STUD*	STUD SPACING
B	NR				6 1/8"	D3A/2A-511	362S162-33	24" O.C.
B1	1HR	GA# WP 1522	52 STC	INSUL CALCULATION	6 1/8"	D3A/2A-511	362S162-33	24" O.C.
B2	2HR	GA# WP 1522			6 1/8"	D3A/2A-511	362S162-33	24" O.C.
B3	NR		50 STC	INSUL CALCULATION	6 1/8"	D3A/2A-511	362S162-33	16" O.C.

22

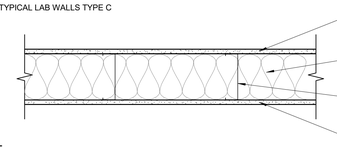


TYPE
B AS INDICATED.
B1 SAME AS TYPE B, EXCEPT 1 HOUR FIRE RATED.
B2 SAME AS TYPE B, EXCEPT 2 HOUR FIRE RATED.
B3 SAME AS TYPE B, EXCEPT USE STUD SPACING AS SCHEDULED.

WALL TYPE - C

TYPE	FIRE RATING	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	WALL HEIGHT	STUD*	STUD SPACING
C	NR				7 1/4"	D3B/2A-511	600S162-54	16" O.C.
C1	NR				7 1/4"	D3A/2A-511	600S162-54	16" O.C.
C2	1HR	GA# WP 1072			7 1/4"	D3A/2A-511	600S162-54	16" O.C.

TYPICAL LAB WALLS TYPE C

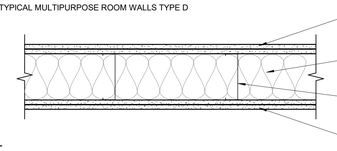


TYPE
C AS INDICATED.
C1 SAME AS TYPE C, EXCEPT FULL HEIGHT.
C2 SAME AS TYPE C1, EXCEPT 1 HOUR FIRE RATED.

WALL TYPE - D

TYPE	FIRE RATING	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	WALL HEIGHT	STUD*	STUD SPACING
D	NR		50 STC	INSUL CALCULATION	8 1/2"	D3A/2A-511	600S162-54	16" O.C.
D1	1HR	GA# WP 1522			8 1/2"	D3A/2A-511	600S162-54	16" O.C.
D2	2HR	GA# WP 1522	55 - 59 STC	NRCC 815-NV, 2-3-81	8 1/2"	D3A/2A-511	600S162-54	16" O.C.

TYPICAL MULTIPURPOSE ROOM WALLS TYPE D



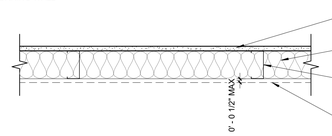
TYPE
D AS INDICATED.
D1 SAME AS TYPE D, EXCEPT 1 HOUR FIRE RATED.
D2 SAME AS TYPE D, EXCEPT 2 HOUR FIRE RATED.

WALL TYPE - E

TYPE	FIRE RATING	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	WALL HEIGHT	STUD*	STUD SPACING
E	NR	-			4 1/4"	D3B/2A-511	362S162-33	24" O.C.
E1	NR	-			4 1/4"	D3B/2A-511	362S162-33	24" O.C.
E2	NR	-			6 5/8"	D3B/2A-511	600S162-33	24" O.C.
E3	NR	-			6 5/8"	D3B/2A-511	600S162-33	24" O.C.
E4	NR	-			6 5/8"	D3B/2A-511	600S162-54	16" O.C.
E5	NR	-			4 1/4"	D3B/2A-511	362S162-33	16" O.C.
E6	NR	-			6 5/8"	D3B/2A-511	600S162-54	16" O.C.
E7	NR	-			3 1/8"	D3B/2A-511	250S162-33	24" O.C.

23 22

FURRING WALL



TYPE
E AS INDICATED.
E1 SAME AS TYPE E, EXCEPT WITHOUT INSULATION.
E2 SAME AS TYPE E, EXCEPT USE STUD AS SCHEDULED.
E3 SAME AS TYPE E2, EXCEPT WITHOUT INSULATION.
E4 SAME AS TYPE E1, EXCEPT USE STUD AND SPACING AS SCHEDULED.
E5 SAME AS TYPE E, EXCEPT USE STUD SPACING AS SCHEDULED.
E6 SAME AS TYPE E2, EXCEPT HEIGHT AND STUD SPACING AS SCHEDULED.
E7 SAME AS TYPE E1, EXCEPT USE STUD AS SCHEDULED.

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
WALL TYPES

Sheet No.
2A-601

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

DOOR & WINDOW NOTES:

1. EACH PANE OF SAFETY GLAZING INSTALLED IN HAZARDOUS LOCATIONS SHALL BEAR THE PERMANENT MANUFACTURER'S MARK DESIGNATING THE TYPE AND THICKNESS OF THE GLASS OR GLAZING MATERIAL, SPECIFYING WHO APPLIED THE DESIGNATION, THE MANUFACTURER OR INSTALLER AND THE SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES. THIS IDENTIFICATION MARK SHALL BE ACID ETCHED, SAN BLASTED, CERAMIC FIRED, LASER ETCHED, EMBOSSED OR OF A TYPE THAT, ONCE APPLIED, CANNOT BE REMOVED WITHOUT BEING DESTROYED. [CBC, SEC. 2406.3].
2. HARDWARE ON DOORS AND GATES (HANDLES, PULLS, LATCHES,LOCKS, AND OTHER OPERABLE PARTS) TO BE OPERABLE WITH ONE HAND WITHOUT REQUIRING TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CBC SEC 11B-404.2.7 , 11B-404.2.7)
3. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS OF ALL INTERIOR HINGED DOORS AND GATES, SLIDING OR FOLDING DOORS, AND EXTERIOR HINGED DOORS SHALL BE FIVE (5) POUNDS MAXIMUM. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS OF REQUIRED FIRE DOOR SHALL NOT EXCEED 15 POUNDS. (CBC, SEC. 11B-404.2.9)
4. ADJUST DOOR CLOSERS AND GATE CLOSERS SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. (CBC, SEC. 11B-404.2.8.1)
5. ADJUST DOOR CLOSERS AND GATE CLOSERS SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. (CBC, SEC. 11B-404.2.8.1)

(1) NUMBER:

SEE PLANS FOR DOOR LOCATIONS

(2) DIMENSION:

DIMENSIONS PROVIDED EQUAL TO CLEAR FRAME WIDTH ALL DOORS 1-3/4" THICK, U.N.O.
CONTRACTOR TO COORDINATE UNDERCUT WITH RESPECT TO THRESHOLD CONDITIONS.

(3) ELEV. TYPE (DOOR):

SEE DOOR TYPES, THIS SHEET

(4) MATERIAL (DOOR):

HM = HOLLOW METAL
WD = SOLID CORE WOOD
AL = ALUMINUM
ST = STEEL

(5) GLAZING (DOOR):

REFER TO SPEC SECTION "088000"
GL-1: EXTERIOR INSULATED GLAZING- SAFETY GLAZING
GL-10: CLEAR FULLY TEMPERED GLAZING
GL-X: CLEAR FIRE RATED GLAZING
GL-11: FROSTED FULLY TEMPERED GLAZING
IN: INSULATED FOR COLD ROOMS

(6) FINISH (DOOR):

FF = FACTORY FINISH
P = PAINTED
WD-3 = REFER TO SHEET 2I-601

(7) TYPE (FRAME):

SEE FRAME TYPES, THIS SHEET

(8) MATERIAL (FRAME):

AL = ALUMINUM
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WD = WOOD
ST = STEEL

(9) FINISH (FRAME):

P = PAINTED
S = STAINED
FF = FACTORY FINISH

(10) DETAILS:

SEE DRAWINGS AS NOTED IN SCHEDULE

(11) FIRE RATING:

IN MINUTES

(12) HARDWARE GROUP:

COMPLY WITH C.B.C. CH. 10, ALL HANDLES TO BE LEVER STYLE
REFER TO HARDWARE SPECS FOR GROUPS

(13) GASKETING:

WS = WEATHER STRIPPING
SS = SMOKE SEAL
CL = CLOSER
OS = OVERHEAD STOP
TH = THRESHOLD
AC = ACOUSTICAL GASKETING

(14) ELECTRICAL:

HO = MAGNETIC HOLD OPEN (PER ELECTRICAL)
ALK= BATTERY ALARM KIT
CR = CARD READER
MO = MOTORIZED DOOR
ADO= AUTOMATIC DOOR OPERATORS
ASO= HVAC SHUT OFF CONTACT AT DOOR FRAME

(15) REMARKS:

1. HARDWARE PROVIDED BY CURTAIN WALL MANUFACTURER
2. INTEGRATED EGRESS DOOR WITH PANIC HARDWARE BY NANA WALL
3. RATING PROVIDED BY SPRINKLER SYSTEM
4. DOOR, DOOR FRAME, AND HARDWARE PROVIDED BY WALK-IN COOLER MANUFACTURER
5. PROVIDE DOOR FRAME AND HARDWARE FROM ELIASON
6. PROVIDE GUARDRAIL CHAIN FOR MEZZANINE STORAGE DOORS
7. HARDWARE PROVIDED BY OVERHEAD DOOR COMPANY
8. SMOKE CONTROL DOOR. TIE AUTOMATIC OPERATOR TO EMERGENCY POWER SYSTEM. DOOR POSITION TO BE ELECTRONICALLY MONITORED FOR POSITION STATUS AT BOTH THE FULL OPEN AND FULL CLOSED POSITIONS.
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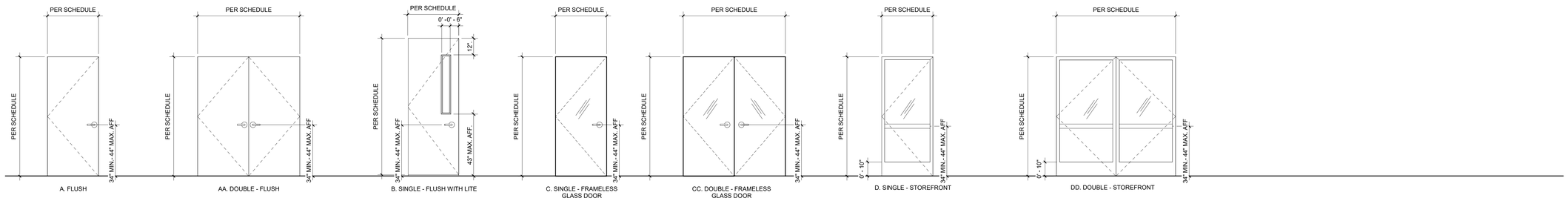
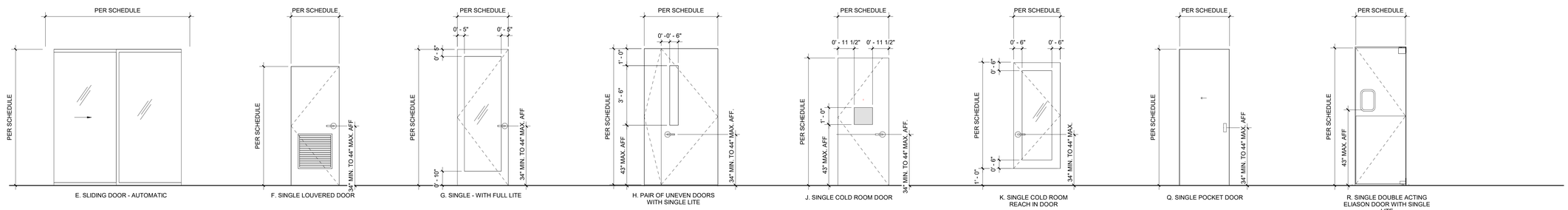
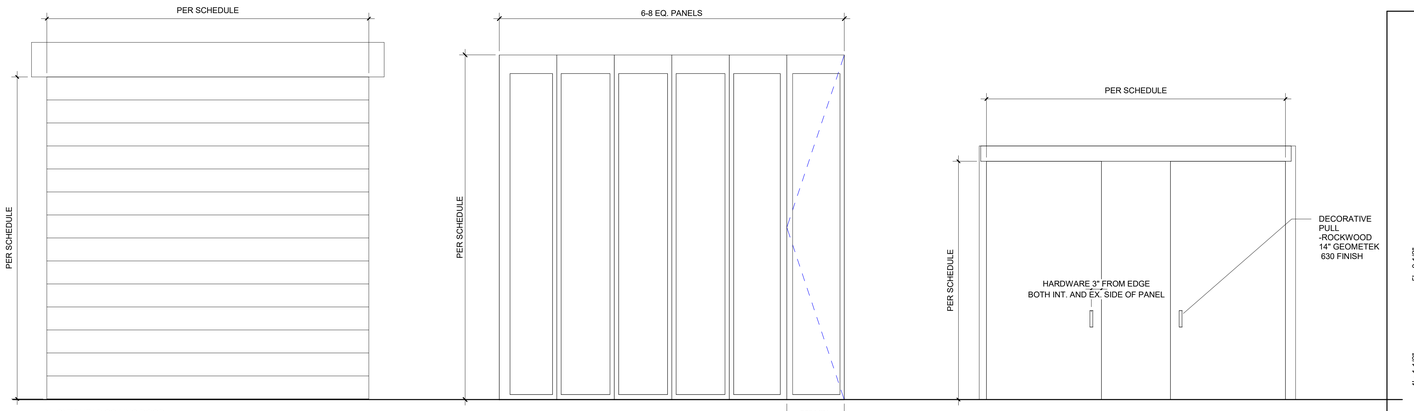
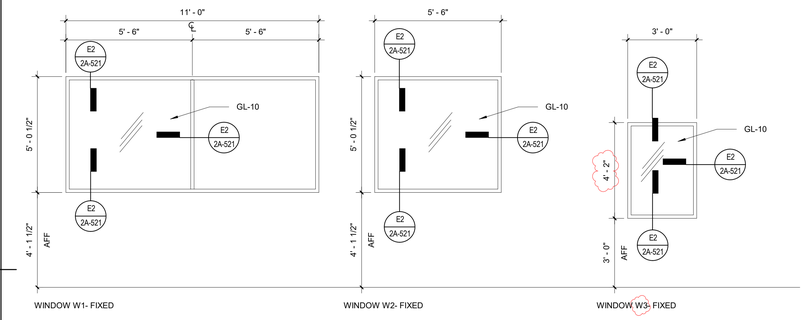
13. DOUBLE EGRESS DOOR

DOOR TYPES









A5 **WINDOW TYPES**

3/8" = 1'-0"

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
DOOR SCHEDULE AND WINDOW TYPES

Sheet No.
2A-611

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

1/23/2018 8:54:27 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT
THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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GL-11: FROSTED FULLY TEMPERED GLAZING
IN: INSULATED FOR COLD ROOMS

(6) FINISH (DOOR):

FF = FACTORY FINISH
P = PAINTED
WD-3 = REFER TO SHEET 2I-601

(7) TYPE (FRAME):

SEE FRAME TYPES, THIS SHEET

(8) MATERIAL (FRAME):

AL = ALUMINUM
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WD = WOOD
ST = STEEL

(9) FINISH (FRAME):

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SEE DRAWINGS AS NOTED IN SCHEDULE

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IN MINUTES

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12. WOOD DOOR WITHIN STOREFRONT SYSTEM
13. DOUBLE EGRESS DOOR

DOOR SCHEDULE - LEVEL 1.9

(1) DOOR NUMBER	DOOR (2) DIMENSIONS WIDTH	DOOR (2) DIMENSIONS HEIGHT	(3) ELEV. TYPE	(4) DOOR MATERIAL	(5) GLAZING	(6) DOOR FINISH	FRAME (7) FRAME TYPE	FRAME (9) FRAME FINISH	FRAME (8) FRAME MATERIAL	FRAME (10) DETAILS HEAD	FRAME (10) DETAILS JAMB	FRAME (10) DETAILS THRESHOLD	(11) FIRE RATING (MINS)	(12) HARDWARE GROUP	(13) GASKETING	(14) ELECTRICAL	(15) REMARKS
LEVEL 01.9-Z2																	
193.3	6' - 0"	7' - 2"	AA	HM	-	P		P	HM					144			6

2.6

RFI 2-00118 Door Conflict at Mezzanine Storage RM 159

DOOR SCHEDULE - LEVEL 2

(1) DOOR NUMBER	DOOR (2) DIMENSIONS WIDTH	DOOR (2) DIMENSIONS HEIGHT	(3) ELEV. TYPE	(4) DOOR MATERIAL	(5) GLAZING	(6) DOOR FINISH	FRAME (9) FRAME FINISH	FRAME (8) FRAME MATERIAL	FRAME (10) DETAILS HEAD	FRAME (10) DETAILS JAMB	FRAME (10) DETAILS THRESHOLD	(11) FIRE RATING (MINS)	(12) HARDWARE GROUP	(13) GASKETING	(14) ELECTRICAL	(15) REMARKS
LEVEL 02-Z2																
2S2.1	3' - 0"	8' - 0"	B	HM	GL-X	P	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	90 MIN	145	CL	CR	
2S5.1	3' - 0"	8' - 0"	B	HM	GL-X	P	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	90 MIN	146	CL		
2S5.2	3' - 0"	8' - 0"	B	HM	GL-X	P	P	HM	D1/2A-521	D1/2A-521		90 MIN	147	CL, WS	CR	
201.1	6' - 2 1/2"	8' - 0"	CC	AL	GL-1	FF	FF	AL	B3/2A-521	E3/2A-521	B5/2A-577	NR	009	CL, WS	CR, ADO	1, 8
201.2	6' - 0"	8' - 0 1/4"	CC	AL	SG-10	FF	FF	AL	B3/2A-521	E3/2A-521	D4/2A-521	NR	109	CL	CR	1, 4
201.3	3' - 7"	7' - 9 1/2"	C	AL	GL-1	FF	FF	AL	B3/2A-521	E3/2A-521	A3/2A-522	NR	020	CL, WS	CR	1
204.2	6' - 0"	8' - 0"	DD	AL	SG-1	FF	FF	AL			A3/2A-522	NR	148	CL, WS	CR	1
208.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	D4/2A-521	NR	105	AC, CL		
211.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521	A4/2A-521	NR	162	CL, AC		12
212.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		1
212.2	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
213.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
214.1	3' - 0"	8' - 0"	A	WD	-	WD-3	FF	HM	D1/2A-521	D1/2A-521		NR	112	CL		
214A.1	6' - 0"	8' - 0"	AA	HM	-	P	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	45 MIN	16	CL	CR	
215.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
216.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	45 MIN	104	CL		
217.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
217.2	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
217.3	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
217.4	3' - 0"	8' - 0"	B	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521	E4/2A-521	NR	157	CL, AC		
218.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	104			
219.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521	E4/2A-521	NR	149	CL, AC		
219.2	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521	E4/2A-521	NR	149	CL, AC		
219.3	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	155	CL		
221.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
223.1	4' - 0"	8' - 0"	J	ST	IN	FF	FF	ST			C4/2A-521	NR	142	CL		4
225.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
250.1	3' - 0"	8' - 0"	A	WD	-	WD-3	FF	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	153			
251.1	6' - 0"	8' - 0"	DD	AL	GL-10	FF	FF	AL	B3/2A-521	E3/2A-521		NR	154	CL		1
251.3	6' - 0"	8' - 0"	AA	HM	-	P	P	HM	D1/2A-521	D1/2A-521		90 MIN	010	CL, WS	CR	
252.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	155	CL, AC		
252.2	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
254.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
255.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	B2/2A-577	NR	101			
256.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521	A4/2A-521	NR	162	CL, AC		12
257.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	B4/2A-521	NR	102			
259.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	B4/2A-521	NR	101			
260.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
261.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
261.2	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
261.3	3' - 0"	8' - 0"	B	WD	SG-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	157	CL, AC		
262.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
263.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	158	CL, AC		
264.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
265.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	159	CL, AC	CR	
265.2	3' - 0"	8' - 0"	A	HM	-	P	P	HM	D1/2A-521	D1/2A-521		45 MIN	021	CL, WS		
266.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3		AL	B3/2A-521	E3/2A-521		NR	115			12
268.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12

DOOR SCHEDULE - LEVEL 1

(1) DOOR NUMBER	DOOR (2) DIMENSIONS WIDTH	DOOR (2) DIMENSIONS HEIGHT	(3) ELEV. TYPE	(4) DOOR MATERIAL	(5) GLAZING	(6) DOOR FINISH	FRAME (7) FRAME TYPE	FRAME (9) FRAME FINISH	FRAME (8) FRAME MATERIAL	FRAME (10) DETAILS HEAD	FRAME (10) DETAILS JAMB	FRAME (10) DETAILS THRESHOLD	(11) FIRE RATING (MINS)	(12) HARDWARE GROUP	(13) GASKETING	(14) ELECTRICAL	(15) REMARKS
1S2.1	3' - 0"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521		90 MIN	100	CL		
1S2.2	3' - 0"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521		45 MIN	008	CL, WS		
101.1	3' - 6"	9' - 10 15/16"	DD		GL-1	FF	AL	FF	AL			E5/2A-523	NR	020	CL, WS	CR, ADO	1, 8
101.2	6' - 0"	9' - 11 7/16"	DD	AL	GL-1	FF		FF	AL			E5/2A-523		007	WS, CL	CR	1
102.1	3' - 0"	8' - 0"	AA	HM	-	P		P	HM	D1/2A-521	D1/2A-521	A6/2A-523	NR	010	CL, WS	CR	
102.2	3' - 6"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521	A6/2A-523	NR	011	CL, WS	CR	
102.3	3' - 6"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521	A6/2A-523	NR	002	CL, WS	CR	
102.4	6' - 0"	10' - 0"	M	ST	-	FF		P	ST				NR	012	CL, WS	MO	7
102.6	9' - 0"	14' - 0"	M	ST	-	FF		P	ST				NR	012	CL, WS	MO, ASO	7
102.7	9' - 0"	14' - 0"	M	ST	-	FF		P	ST				NR	012	WS	MO, ASO	7
103.2	6' - 0"	8' - 0"	AA	HM	-	P	AL	P	HM			A6/2A-523	NR	009	CL, WS	CR, ADO	8
104.1	8' - 0"	8' - 0"	AA	WD	-	WD-3		P	HM	D1/2A-521	D1/2A-521		45 MIN	123	CL	HO	
104.2	4' - 0"	8' - 0"	A	HM	-	P	AL	P	HM	D1/2A-521	D1/2A-521		NR	122	CL, AC	CR	
109.1	6' - 0"	8' - 0"	AA	WD		WD-3	HM	P		D1/2A-521	D1/2A-521	A4/2A-521	NR	124	AC, CL		
109.2	3' - 0"	8' - 0"	A	HM		P	HM	P		D1/2A-521	D1/2A-521		NR	125	CL		
110A.1	3' - 0"	8' - 0"	A	WD		WD-3	HM	P		D1/2A-521	D1/2A-521		NR	126	AC, CL		
110A.2	21' - 11 1/2"	9' - 9"	N	AL	SG-1	FF		FF	AL				NR	013	WS, CL	ASO	
110B.1	3' - 0"	8' - 0"	A	WD		WD-3	HM	P		D1/2A-521	D1/2A-521		NR	126	AC, CL		
110B.2	2' - 6"	12' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521		NR	127			10
110B.3	30' - 2"	9' - 11"	N	AL	SG-1	AL		FF	AL				NR	013	WS, CL	ASO	
110C.1	3' - 0"	8' - 0"	A	WD	-	S			HM	D1/2A-521	D1/2A-521	A4/2A-521	NR	126			
110C.2	2' - 6"	12' - 0"	A	WD	-	S	HM	P		D1/2A-521	D1/2A-521		NR	127			10
110C.3	3' - 2 1/2"	9' - 9"	D	AL	SG-1	FF		FF	AL				NR	126	CL, WS		2
111.1	6' - 0"	9' - 8"	DD	AL	SG-1	FF		FF	AL						CL, CR, WS		1
111.3	8' - 0"	10' - 0"	S	WD	-	WD-1		P	ST	B5/2A-521	B5/2A-521	B4/2A-521	NR	128			
112.1	3' - 0"	8' - 1 3/4"	H	WD	IN	P	HM	P	ST	D1/2A-521	D1/2A-521	B4/2A-521	NR	111			5
113.1	3' - 0"	8' - 0"	A		-	S	AL	FF	AL	A6/2A-521	A5/2A-521	D4/2A-521		112B	CL		11
114.1	3' - 0"	8' - 0"	A	HM		P	HM	P		D1/2A-521	D1/2A-521		NR	110	CL		
115.1	6' - 0"	8' - 0"	AA	WD	-	WD-3	HM	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	129	CL		
116.1	3' - 0"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521	C4/2A-521	45 MIN	130	CL	CR	
117.1	3' - 6"	8' - 0"	A	WD	-	WD-3	HM	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	131			
118.1	3' - 0"	8' - 0"	F	HM	-	P		P	HM				NR	132	CL		
119.1	3' - 6"	8' - 0"	A	WD	-	WD-3	HM	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	131			
120.1	3' - 0"	8' - 0"	F	HM	-	P		P	HM				NR	132	CL		
121.1	3' - 0"	8' - 0"	A	HM	-	P	HM	P	HM	D1/2A-521	D1/2A-521		NR	131			
122.1	6' - 0"	8' - 0"	AA	HM	-	P		P	HM	D1/2A-521	D1/2A-521	A6/2A-523	NR	016	CL, WS	CR	
123.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521	B4/2A-521	NR	101	CL, AC		
124.1	3' - 0"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521	A6/2A-523	NR	017	CL, WS	CR	
125.1	3' - 0"	8' - 0"	A	-		WD-3	HM	P		D1/2A-521	D1/2A-521	C4/2A-521	NR	133			
126.1	6' - 0"	8' - 0"	AA	HM	-	P		P	HM	D1/2A-521	D1/2A-521	A6/2A-523	NR	019	CL, WS	CR	
127.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521	B4/2A-521	NR	101	CL, AC		
128.1	6' - 0"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521		90 MIN	121	CL		
129A.1	3' - 6"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521	2.3	NR	136	AC, CL		
129B.1	3' - 6"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521		NR	136	CL, AC		
130.1	3' - 0"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521	A6/2A-523	NR	018	WS		
131.1	3' - 6"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521		NR	136	CL, AC		
132.1	3' - 0"	7' - 0"	A	HM	-	P	HM	P	HM	D1/2A-521	D1/2A-521		NR	115	AC		
135.1	3' - 6"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521		NR	136	AC, CL		
136.1	3' - 0"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521		NR	112			
137.1	3' - 6"	8' - 0"	B	HM	GL-10	P		P	HM	D1/2A-521	D1/2A-521		NR	137	AC, CL		
138.1	6' - 0"	8' - 0"	AA	HM	-	P		P	HM	D1/2A-521	D1/2A-521	A6/2A-523	NR	019	CL, WS	CR	
138.2	3' - 0"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521		45 MIN	121	CL		
140.1	3' - 0"	8' - 0"	A	HM	-					D1/2A-521	D1/2A-521	C4/2A-521	NR	134			
141.1	3' - 0"	8' - 0"	AA	HM	-	P		P	HM	D1/2A-521	D1/2A-521	D4/2A-521	NR	138	AC, CL		
143.1	3' - 6"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521	B2/2A-577	NR	139	AC	CR	
143.2	3' - 6"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521		90 MIN	135	CL		
145.1	3' - 0"	8' - 0"	AA	HM	-	P		P	HM	D1/2A-521	D1/2A-521	D4/2A-521	NR	138	AC, CL		
149.1	3' - 0"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521	A4/2A-521	NR	115	AC		
151.1	6' - 0"	8' - 0"	AA	HM	-	P		P	HM	D1/2A-521	D1/2A-521		NR	140			
152.1	3' - 0"	8' - 0"	AA	HM	-	P		P	HM	D1/2A-521	D1/2A-521		NR	141	AC		
155.1	4' - 0"	7' - 0"	J	ST	GL-X	FF							NR	142			4
156.1	4' - 0"	7' - 0"	J	ST	GL-X	FF							NR	142			4

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
DOOR SCHEDULE

2.1

Sheet No.
2A-612

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

DOOR & WINDOW NOTES:

1. EACH PANE OF SAFETY GLAZING INSTALLED IN HAZARDOUS LOCATIONS SHALL BEAR THE PERMANENT MANUFACTURER'S MARK DESIGNATING THE TYPE AND THICKNESS OF THE GLASS OR GLAZING MATERIAL, SPECIFYING WHO APPLIED THE DESIGNATION, THE MANUFACTURER OR INSTALLER AND THE SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES. THIS IDENTIFICATION MARK SHALL BE ACID ETCHED, SAN BLASTED, CERAMIC FIRED, LASER ETCHED, EMBOSSED OR OF A TYPE THAT, ONCE APPLIED, CANNOT BE REMOVED WITHOUT BEING DESTROYED. [CBC, SEC. 2406.3].
2. HARDWARE ON DOORS AND GATES (HANDLES, PULLS, LATCHES,LOCKS, AND OTHER OPERABLE PARTS) TO BE OPERABLE WITH ONE HAND WITHOUT REQUIRING TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CBC SEC 11B-404.2.7 , 11B-404.2.7)
3. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS OF ALL INTERIOR HINGED DOORS AND GATES, SLIDING OR FOLDING DOORS, AND EXTERIOR HINGED DOORS SHALL BE FIVE (5) POUNDS MAXIMUM. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS OF REQUIRED FIRE DOOR SHALL NOT EXCEED 15 POUNDS. (CBC, SEC. 11B-404.2.9)
4. ADJUST DOOR CLOSERS AND GATE CLOSERS SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. (CBC, SEC. 11B-404.2.8.1)
5. ADJUST DOOR CLOSERS AND GATE CLOSERS SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. (CBC, SEC. 11B-404.2.8.1)

(1) NUMBER:

SEE PLANS FOR DOOR LOCATIONS

(2) DIMENSION:

DIMENSIONS PROVIDED EQUAL TO CLEAR FRAME WIDTH ALL DOORS 1-3/4" THICK, U.N.O.
CONTRACTOR TO COORDINATE UNDERCUT WITH RESPECT TO THRESHOLD CONDITIONS.

(3) ELEV. TYPE (DOOR):

SEE DOOR TYPES, THIS SHEET

(4) MATERIAL (DOOR):

HM = HOLLOW METAL
WD = SOLID CORE WOOD
AL = ALUMINUM
ST = STEEL

(5) GLAZING (DOOR):

REFER TO SPEC SECTION "088000"
GL-1: EXTERIOR INSULATED GLAZING- SAFETY GLAZING
GL-10: CLEAR FULLY TEMPERED GLAZING
GL-X: CLEAR FIRE RATED GLAZING
GL-11: FROSTED FULLY TEMPERED GLAZING
IN: INSULATED FOR COLD ROOMS

(6) FINISH (DOOR):

FF = FACTORY FINISH
P = PAINTED
WD-3 = REFER TO SHEET 2I-601

(7) TYPE (FRAME):

SEE FRAME TYPES, THIS SHEET

(8) MATERIAL (FRAME):

AL = ALUMINUM
HM = HOLLOW METAL
WD = WOOD
ST = STEEL

(9) FINISH (FRAME):

P = PAINTED
S = STAINED
FF = FACTORY FINISH

(10) DETAILS:

SEE DRAWINGS AS NOTED IN SCHEDULE

(11) FIRE RATING:

IN MINUTES

(12) HARDWARE GROUP:

COMPLY WITH C.B.C. CH. 10, ALL HANDLES TO BE LEVER STYLE
REFER TO HARDWARE SPECS FOR GROUPS

(13) GASKETING:

WS = WEATHER STRIPPING
SS = SMOKE SEAL
CL = CLOSER
OS = OVERHEAD STOP
TH = THRESHOLD
AC = ACOUSTICAL GASKETING

(14) ELECTRICAL:

HO = MAGNETIC HOLD OPEN (PER ELECTRICAL)
ALK= BATTERY ALARM KIT
CR = CARD READER
MO = MOTORIZED DOOR
ADO= AUTOMATIC DOOR OPERATORS
ASO= HVAC SHUT OFF CONTACT AT DOOR FRAME

(15) REMARKS:

1. HARDWARE PROVIDED BY CURTAIN WALL MANUFACTURER
2. INTEGRATED EGRESS DOOR WITH PANIC HARDWARE BY NANA WALL
3. RATING PROVIDED BY SPRINKLER SYSTEM
4. DOOR, DOOR FRAME, AND HARDWARE PROVIDED BY WALK-IN COOLER MANUFACTURER
5. PROVIDE DOOR FRAME AND HARDWARE FROM ELIASON
6. PROVIDE GUARDRAIL CHAIN FOR MEZZANINE STORAGE DOORS
7. HARDWARE PROVIDED BY OVERHEAD DOOR COMPANY
8. SMOKE CONTROL DOOR. TIE AUTOMATIC OPERATOR TO EMERGENCY POWER SYSTEM. DOOR POSITION TO BE ELECTRONICALLY MONITORED FOR POSITION STATUS AT BOTH THE FULL OPEN AND FULL CLOSED POSITIONS.
9. FRAMED OPENING- NO HARDWARE
10. DOOR AND HARDWARE PROVIDED BY OPERABLE PARTITION MANUFACTURER
11. FRAMELESS DOOR, FLUSH WITH ADJACENT WALL. FINISH TO MATCH ADJACENT WALL. FRAME TO BE CUSTOM COLOR TO MATCH WALL FINISH
12. WOOD DOOR WITHIN STOREFRONT SYSTEM
13. DOUBLE EGRESS DOOR

DOOR SCHEDULE - LEVEL 4

(1) DOOR NUMBER	DOOR (2) DIMENSIONS WIDTH	DOOR (2) DIMENSIONS HEIGHT	(3) ELEV. TYPE	(4) DOOR MATERIAL	(5) GLAZING	(6) DOOR FINISH	FRAME (7) FRAME TYPE	(9) FRAME FINISH	(8) FRAME MATERIAL	FRAME (10) DETAILS HEAD	FRAME (10) DETAILS JAMB	FRAME (10) DETAILS THRESHOLD	(11) FIRE RATING (MINS)	(12) HARDWARE GROUP	(13) GASKETING	(14) ELECTRICAL	(15) REMARKS
LEVEL 04-Z2																	
4S2.1	3' - 0"	8' - 0"	B	HM	GL-X	P	HM	P				C4/2A-521	90 MIN	145	CL	CR	
4S5.1	3' - 0"	8' - 0"	B	HM	GL-X	P	HM	P		D1/2A-521	D1/2A-521	C4/2A-521	90 MIN	147	CL	CR	
401.1	6' - 0"	8' - 0 1/4"	CC	AL	GL-10	FF	AL	FF					NR	108	CL	CR	1, 4, 13
403.1	6' - 0"	8' - 0"	AA	WD	-	WD-3		P	HM	D1/2A-521	D1/2A-521		NR	160	CL	CR	13
403.2	3' - 6"	8' - 0"	A	HM	-	P		P	HM	D1/2A-521	D1/2A-521	-	NR	165			
410.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3		FF	AL	B3/2A-521	E3/2A-521	D4/2A-521	NR	168	AC		
411.1	3' - 0"	8' - 0"	A	WD	GL-10	WD-3	HM	P		D1/2A-521	D1/2A-521		NR	120	CL	CR	
411.2	3' - 0"	8' - 0"	Q	WD		WD-3				B3/2A-521	E3/2A-521			169			
413.1	4' - 6"	8' - 0"	A	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	150	CL, AC	CR	
413.2	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
413.3	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
413.4	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521		NR	125	CL		
414.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
415.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
416.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
417.1	3' - 0"	8' - 0"	K	ST	IN	FF	ST	FF				C4/2A-521	NR	142	CL		4
417.2	3' - 0"	8' - 0"	K	ST	IN	FF	ST	FF				C4/2A-521	NR	142	CL		4
418.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521	A4/2A-521	NR	162	AC		12
419.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	150	CL, AC		
420.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
421.1	8' - 6"	8' - 0"	E	AL	GL-10	FF	AL	FF					NR	171		CR	1
422.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3		FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
424.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3		FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
430.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
430.2	3' - 0"	8' - 0"	A	WD	GL-10	WD-3	HM	P		D1/2A-521	D1/2A-521		NR	125	CL		
432.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521	C4/2A-521	45 MIN	172	CL		
434.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521	C4/2A-521	90 MIN	104	CL		
436.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521	C4/2A-521	NR	104	CL		
438.1	3' - 6"	8' - 0"	A	HM	-	WD-3	HM	P		D1/2A-521	D1/2A-521	C4/2A-521	NR	165			
450.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521		NR	173	CL		
451.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
452.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521	C4/2A-521	NR	112			
453.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521		NR	174	CL		
454.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
455.1	3' - 0"	8' - 0"	A	WD	-	WD-3		P	HM	D1/2A-521	D1/2A-521	B4/2A-521	NR	110	CL		
457.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521	B4/2A-521	NR	101	CL		
459.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521	C4/2A-521	NR	102			
461.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM	P		D1/2A-521	D1/2A-521	B4/2A-521	NR	101	CL		
470.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
471.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521	E4/2A-521	NR	149	CL, AC		
471.2	3' - 0"	8' - 0"	B	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521	E4/2A-521	NR	125	CL,AC		
472.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
472A.1	3' - 0"	8' - 0"	A	WD	-	WD-3	HM			D1/2A-521	D1/2A-521		NR	125			
473.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
473.2	3' - 0"	8' - 0"	B	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	125	CL, AC		
474.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
475.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
475.2	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	HM	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
480.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521	A4/2A-521	NR	162	AC		12
481.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521	A4/2A-521	NR	162	AC		12
482.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
483.1	2' - 11 1/16"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
484.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
486.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
487.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
488.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
489.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	AL	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12

DOOR SCHEDULE - LEVEL 3

(1) DOOR NUMBER	DOOR (2) DIMENSIONS WIDTH	DOOR (2) DIMENSIONS HEIGHT	(3) ELEV. TYPE	(4) DOOR MATERIAL	(5) GLAZING	(6) DOOR FINISH	FRAME (9) FRAME FINISH	(8) FRAME MATERIAL	FRAME (10) DETAILS HEAD	FRAME (10) DETAILS JAMB	FRAME (10) DETAILS THRESHOLD	(11) FIRE RATING (MINS)	(12) HARDWARE GROUP	(13) GASKETING	(14) ELECTRICAL	(15) REMARKS
LEVEL 03-Z2																
3S2.1	3' - 0"	8' - 0"	B	HM	GL-X	P	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	90 MIN	145	CL	CR	
3S5.1	3' - 0"	8' - 0"	B	HM	GL-X	P	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	90 MIN	147	CL	CR	
301.1	6' - 0"	8' - 0 1/4"	CC	AL	GL-10	FF	FF	AL			D4/2A-521	NR	109	CL	CR	1, 4
301.2	6' - 0"	8' - 0"	AA	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	160	CL	CR	13
310.1	3' - 0"	8' - 0"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521	A4/2A-521	NR	161	CL, AC		1, 4
311.2	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521	A4/2A-521	NR	162	CL, AC		12
312.1	3' - 0"	8' - 0"	A	WD	-	WD-3	FF	HM	D1/2A-521	D1/2A-521		NR	163			
313.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
314.1	3' - 0"	8' - 0"	A	WD	-	WD-3	FF	HM	D1/2A-521	D1/2A-521	D4/2A-521	NR	105	AC, CL		
315.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
317.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
318.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521	A4/2A-521	NR	162	AC		12
319.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
319.2	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
319.3	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
319.4	3' - 0"	8' - 0"	B	WD	SG-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	125	CL, AC		
320.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
321.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
322.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
323.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
324.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
324.2	3' - 0"	8' - 0"	B	WD	SG-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	125	CL, AC		
325.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
327.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	150	CL	CR	
328.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
330.1	6' - 0"	8' - 0"	AA	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	45 MIN	164	CL		
331.2	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	149	CL, AC		
332.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	45 MIN	104	CL		
334.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	104			
338.1	3' - 0"	8' - 0"	A	HM	-	P	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	165			
350.1	3' - 0"	8' - 0"	J	ST	GL-10	FF	FF	ST			C4/2A-521	NR	142	CL		4
350.2	3' - 0"	8' - 0"	J	ST	GL-10	FF	FF	ST			C4/2A-521	NR	142	CL		4
352.1	3' - 0"	8' - 0"	J	ST	GL-10	FF	FF	ST			C4/2A-521	NR	142	CL		4
353.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	B4/2A-521	NR	101	AC, CL		
354.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
354.2	3' - 0"	8' - 0"	B	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	125	CL, AC		
355.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	102			
356.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	149	CL, AC		
356.2	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	150	CL, AC		
357.1	3' - 0"	8' - 0"	A	WD	-	WD-3	P	HM	D1/2A-521	D1/2A-521	B4/2A-521	NR	101	AC, CL		
358.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521	A4/2A-521	NR	162	AC		12
359.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521	E4/2A-521	NR	149	CL, AC		
359.2	3' - 0"	8' - 0"	B	WD	SG-10	WD-3	P	HM	D1/2A-521	D1/2A-521	E4/2A-521	NR	125	CL, AC		
361.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	150	CL, AC		
363.1	3' - 0"	8' - 0"	B	WD	GL-X	WD-3	P	HM	D1/2A-521	D1/2A-521	C4/2A-521	NR	152	CL, AC		
364.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
365.1	3' - 0"	8' - 0"	B	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521	D4/2A-521	NR	166	CL, AC		
366.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
367.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	150	CL, AC	CR	
368.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
370.1	3' - 0"	8' - 0 1/4"	G	WD	GL-10	WD-3	FF	AL	B3/2A-521	E3/2A-521		NR	115	AC		12
371.1	4' - 6"	8' - 0"	H	WD	GL-10	WD-3	P	HM	D1/2A-521	D1/2A-521		NR	150	CL, AC		

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GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
DOOR SCHEDULE

Sheet No.
2A-613

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS

PARKING TABULATION

MINIMUM REQUIREMENT BY THE R&D USE: MUNICIPAL CODE PER TABLE 142-05G

1450 VETERANS BLVD (NO WORK IN THIS SCOPE)
EXISTING 8929 BUILDING: 23,000 SF
PARKING RATIO: 2.5/1000 R&D=
23,000/1000 X 2.5= 58 SPACES (56 STANDARD STALLS, 1 VAN ACCESSIBLE, 1 ACCESSIBLE)

PROVIDED PARKING:
58 EXISTING STALLS (54 STANDARD, 4 ACCESSIBLE PARKING STALLS)

NEW GENE THEORY CAMPUS:
NEW BUILDING: 139,144 SF
EXISTING 8928 RENOVATION: 48,133 SF
EXISTING 1450 VETERANS (PHASE 1) : 39,049 SF
TOTAL: 226,326 SF

PARKING RATIO: 3/1000 (PER SDMC)
226,326/1000 X 3 = 679 STALLS REQUIRED

MINIMUM ACCESSIBLE PARKING SPACES REQUIRED PER CBC 11B-208.2:
= 2% OF 679
= 14 STALLS REQUIRED

PROVIDED PARKING:
701 (687 STANDARD STALLS, 3 VAN ACCESSIBLE, 11 ACCESSIBLE)

ALL REQUIRED ELECTRICAL CHARCHING SPACES, MOTORCYCLE SPACES, BICYCLE STORAGE AREIN THE PARKING STRUCTURE

LEGAL DESCRIPTION

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
024119.A25	EXISTING 8959 GENERATOR
024119.A26	EXISTING 8959 & 8929 TRANSFORMER
024119.A38	EXISTING 8929 TRASH ENCLOSURE TO REMAIN
024119.A39	EXISTING AT&T PEDESTAL & MANHOLE TO REMAIN, PROTECT IN PLACE
024119.A40	EXISTING CONCRETE PLANTER & TREE TO REMAIN
050000.K1	STEEL BOLLARDS - REMOVABLE
129300.A1	BOLLARD
211119.A1	NEW FIRE DEPARTMENT CONNECTION
220519.A1	NEW WATER METER & BACKFLOW, SEE CIVIL
231123.A2	GAS METER, SEE PLUMBING
260000.A3	NEW TRANSFORMER, SEE ELECTRICAL
265619.A1	LED EXTERIOR LIGHTING, SEE ELECTRICAL
320000.A2	NEW C.I.P. MONUMENT SIGNWALL, SEE LANDSCAPE
320000.A3	WOOD SCREEN WALL, SEE LANDSCAPE
321723.A2	NEW STRIPING FOR PARKING
321726.A5	TACTILE WARNING SURFACING, SEE LANDSCAPE FOR DETAILS
323119.A2	NEW BI-PARTING ROLLING GATE WITH PAD LOCK
323223.C1	NEW CONCRETE OR CMU RETAINING WALLS, SEE CIVIL & STRUCTURAL
328400.A2	RECLAIMED WATER IRRIGATION CONTROLLER
334100.A1	NEW UNDERGROUND STORMWATER STRUCTURES, SEE CIVIL

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
031	TRASH & RECYCLE BINS
041	NEW SHADE STRUCTURE & STAIRS, SEE LANDSCAPE
042	NEW BOCCE BALL COURT, SEE LANDSCAPE
043	PARKING NOT IN SCOPE, EXISTING TO REMAIN
044	PEDESTRIAN BRIDGE, SEE LANDSCAPE

LEGEND

- PROPERTY LINE
- BUILDING - SEE DESCRIPTION
- ACCESSIBLE PATH OF TRAVEL TO RIGHT OF WAY

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCTURAL STEEL BID SET

STRUCTURAL STEEL BID SET
07.10.17

Sheet Title

SITE PLAN

Sheet No.

2AS-101

A1 **SITE-OVERALL**

D1 / 2A-203 | 1" = 30'-0"

DPR Issued Sheet 2017-10-07
Link to Sheet Index - 2G-002

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SITE PLAN CODE ANALYSIS

PARKING STRUCTURE:

FIRE-RESISTANCE RATING REQUIREMENTS PER TABLE 602
TYPE II-B NON SPRINKLED

NORTH WALL: 10 X < 30 1 HR
EAST WALL: X 30 1 HR
SOUTH WALL, TYP: 10 X < 30 1 HR
WEST WALL: 10 X < 30 1 HR
ELEVATOR WALLS:
PER CBC
712.1.10.2 ELEVATOR WALLS ARE NON RATED.

MAXIMUM AREA OF EXTERIOR WALL OPENINGS PER TABLE 705.8

NORTH WALL: NO LIMIT*
EAST WALL: NO LIMIT*
SOUTH WALL: NO LIMIT*
WEST WALL: NO LIMIT*
PER FOOT NOTE G, "THE AREA OF OPENINGS IN AN OPEN PARKING STRUCTURE WITH A FIRE SEPARATION DISTANCE OF 10 FEET OR GREATER SHALL NOT BE LIMITED"

NEW BUILDING:

FIRE-RESISTANCE RATING REQUIREMENTS PER TABLE 602
TYPE I-B SPRINKLED

NORTH WALL: X < 5 2 HR (AT S-1) 1 HR AT A AND B
EAST WALL: 10 X < 30 0 HR*
SOUTH WALL: 10 X < 30 0 HR*
WEST WALL: 10 X < 30 0 HR*
PER FOOT NOTE G WHERE TABLE 705.8 PERMITS NONBEARING EXTERIOR WALLS WITH UNLIMITED AREA OF UNPROTECTED OPENINGS, THE REQUIRED FIRE-RESISTANCE RATING FOR THE EXTERIOR WALLS IS 0 HOURS.

MAXIMUM AREA OF EXTERIOR WALL OPENINGS PER TABLE 705.8

NORTH WALL: 15% UNPROTECTED, 15% UNPROTECTED SPRINKLED
EAST WALL: UNPROTECTED SPRINKLED, UNLIMITED
SOUTH WALL: UNPROTECTED SPRINKLED, UNLIMITED
WEST WALL: UNPROTECTED SPRINKLED, UNLIMITED

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND

- PROPERTY LINE
- ASSUMED PROPERY LINE SHEET 2AS-102
- BUILDING, SEE DESCRIPTIONS
- FIRE LANE SHEET 2AS-103
- 1- HR RATED WALL SHEET 2AS-102
- 2-HR RATED WALL SHEET 2AS-102
- PER FOOTNOTE G ON TABLE 602: WHERE TABLE 705.8 PERMITS NONBEARING EXTERIOR WALLS WITH UNLIMITED AREA OF UNPROTECTED OPENINGS, THE REQUIRED FIRE-RESISTANCE RATING FOR THE EXTERIOR WALL IS 0 HOURS.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title

SITE PLAN
CODE
ANALYSIS

Sheet No.

2AS-102

A1 | **SITE-Z2 CODE ANALYSIS**

D1 / 2A-203 | 1" = 30'-0"

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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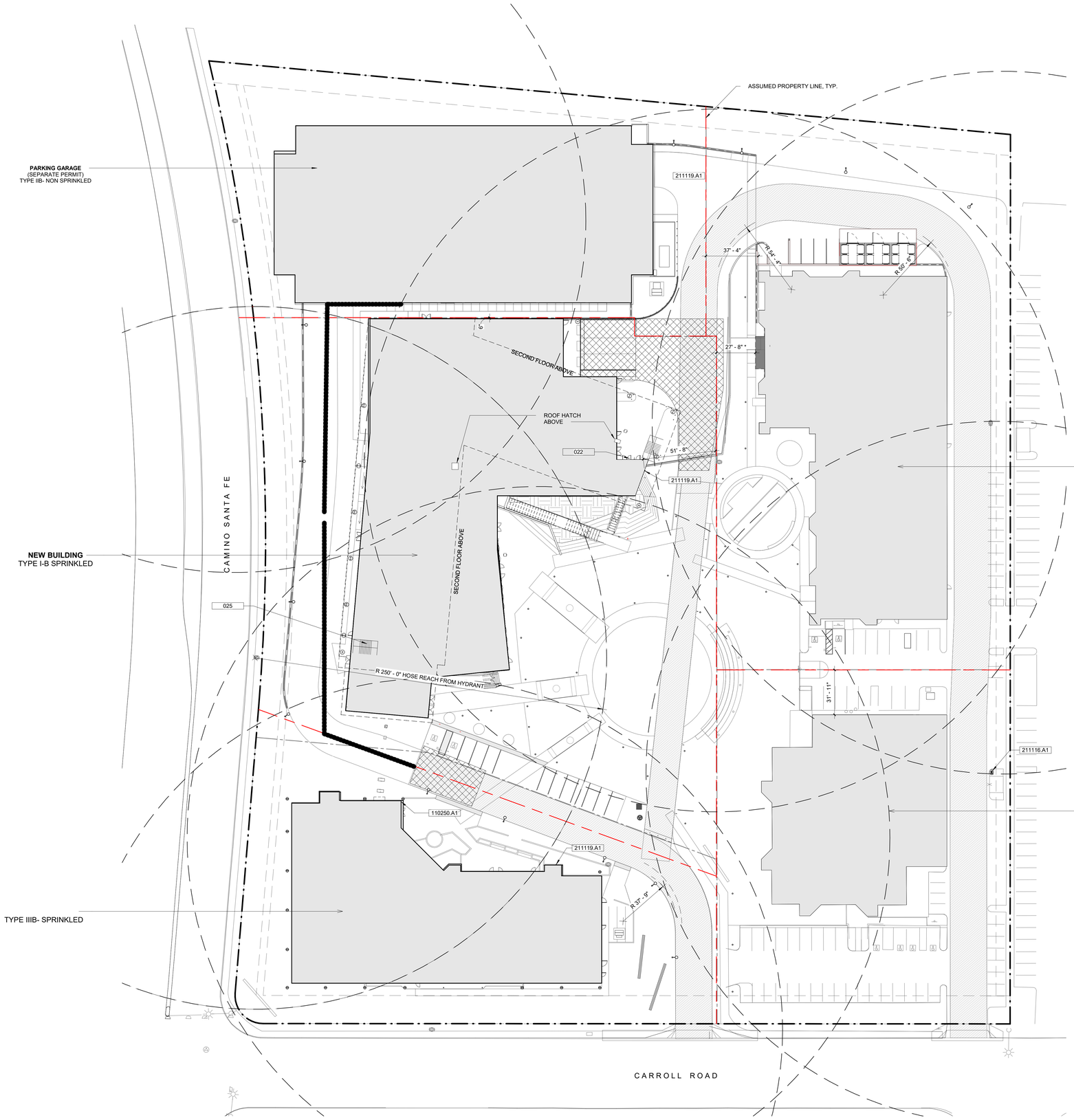

GENERAL FIRE NOTES

1. FIRE ACCESS LANE SHALL HAVE FIRE LANE SIGNAGE PER REDWOOD CITY FIRE DEPARTMENT POLICY NO. A-95-1.

2. BUILDING OCCUPANT SHALL SECURE PERMITS REQUIRED BY THE FIRE DEPARTMENT FROM THE FIRE PREVENTION BUREAU PRIOR TO OCCUPYING THE BUILDING.

3. FIRE PROTECTION. INCLUDING FIRE APPARATUS ACCESS ROADS AND WATER SUPPLIES FOR THE FIRE PROTECTION, SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING TIME OF CONSTUCTION. (CFC. 9013, 8704.2, 8704.3)

4. *ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE LEGIBLE FROM TEH STREET OR RPAD FRONTING THE PROPERTY. (CFC.901.44)

5. BUILDING NUMBERS SHALL BE EASILY VISIBLE AND LEGIBLE FROM TEH STREE OR ROAD FRONTING THE PROPERTY. (CFC. 901.4.4)

6. BUILDINGS UDNERGOING CONSTUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH CFC ARTICLE 87. (CFC 8701, 903.1) MUST COMPLY WITH FHPS POLICY P-00-6.

7. ALL DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME RETARDANT CONDITION (CCR, T-19, SEC. 1.14, 3.08, 3.21, AND CFC SEC. 1103.3, 2501.5, SEC. 2501.6).

FIRE EXTINGUISERS

1. AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 4-A-20B:C SHALL BE PROVIDED OUTSIDE OF EACH MECHANICAL, ELECTRICAL, OR BOILER ROOM. (CFC 1002, UFC STANDARD 10-1, CCR T-19, 3.29)

2. PROVIDE A MINIMUM OF OF ONE 2-A-10B:C CLASSIFICATION FIRE EXTINGUISHER WITHIN 75 FEED OF TRAVEL DISTANCE FOR 6000 SF OR PORTION THEROF ON EACH FLOOR. (CFC 10-1 AND CCR T-19, SEC. 3-29)

FIRE HYDRANTS

1. FIRE HYDRANTS SHALL COMPLY WITH FIRE DEPARTMENT REQUIREMENTS FOR ON-SITE FIRE HYDRANTS, FIRE AND LIFE SAFETY, F.P.B. POLICY F-96-01 AND CFC SEC. 903.4.

2. FIRE HYDRANT LCOATIONS SHALL BE IDENTIFIED BY THE INSTALLATION OF REFLECTIVE MARKERS. (CFC. 901.4.3)

3. ON-SITE FIRE HYDRANTS SHALL COMPLY WITH THE FIRE DEPARTMENT REQUIREMENTS AND CFC SEC. 903.4

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
055000.K1	STEEL BOLLARDS - REMOVABLE
101423.A3	FDC LOCATION SIGNAGE
110250.A1	KNOX-VAULT ASSEMBLY
211116.A1	FACILITY FIRE HYDRANTS
211119.A1	NEW FIRE DEPARTMENT CONNECTION
211120.A1	FIRE-SUPPRESSION STANDPIPE

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
020	200' HOSE REACH
022	FIRE PUMP ROOM
024	PAINTED RED CURB WITH TEXT "NO PARKING FIRE LANE"
025	ROOF ACCESS STAIRWELL

LEGEND

- PROPERTY LINE
- ASSUMED PROPERY LINE
- BUILDING - SEE DESCRIPTIONS
- FIRE LANE
- FIRE TRUCK AERIAL ACCESS
- FIRE HOSE REACH

N

A1 | **FIRE ACCESS SITE PLAN**

D1 / 2A-203 | 1" = 30'-0"

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title

SITE PLAN-
FIRE ACCESS

Sheet No.

2AS-103

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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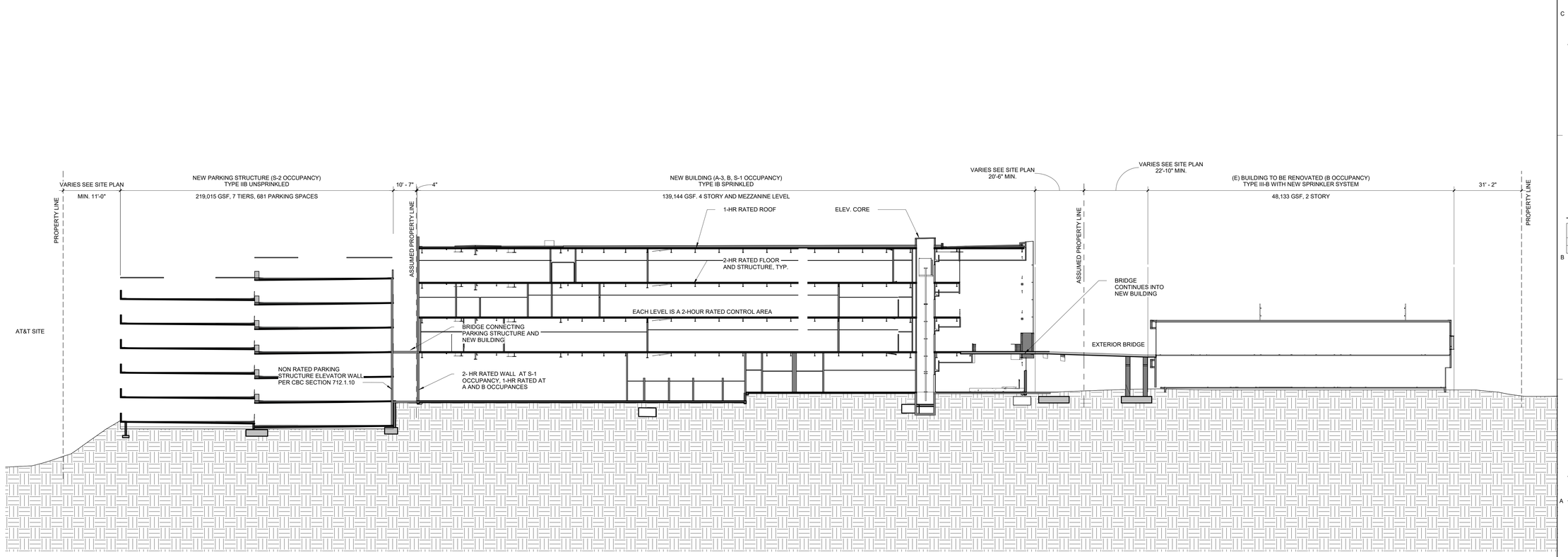


A1 BUILDING/SITE SECTION

A1 / 2AS-101 | 1" = 20'-0"

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT

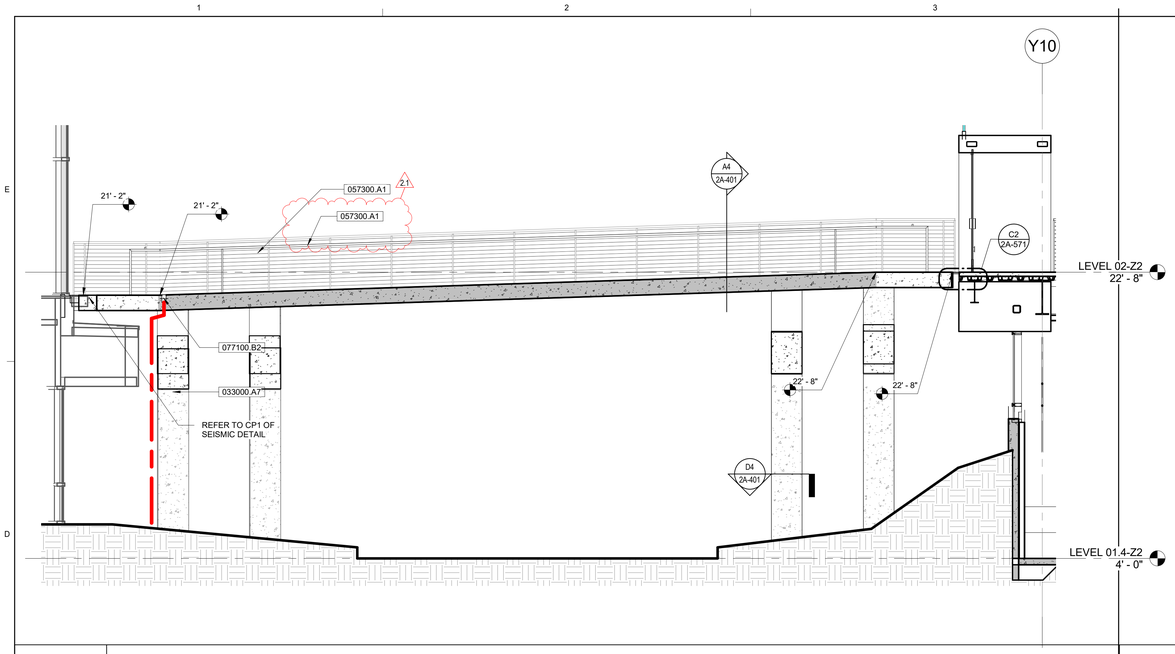
DESIGN DEVELOPMENT SET
04.25.17

Sheet Title
SITE SECTIONS

Sheet No.
2AS-301

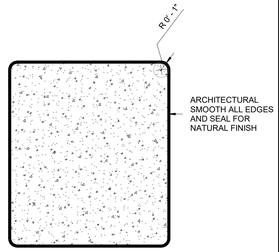
DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002

8/29/2017 3:16:36 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



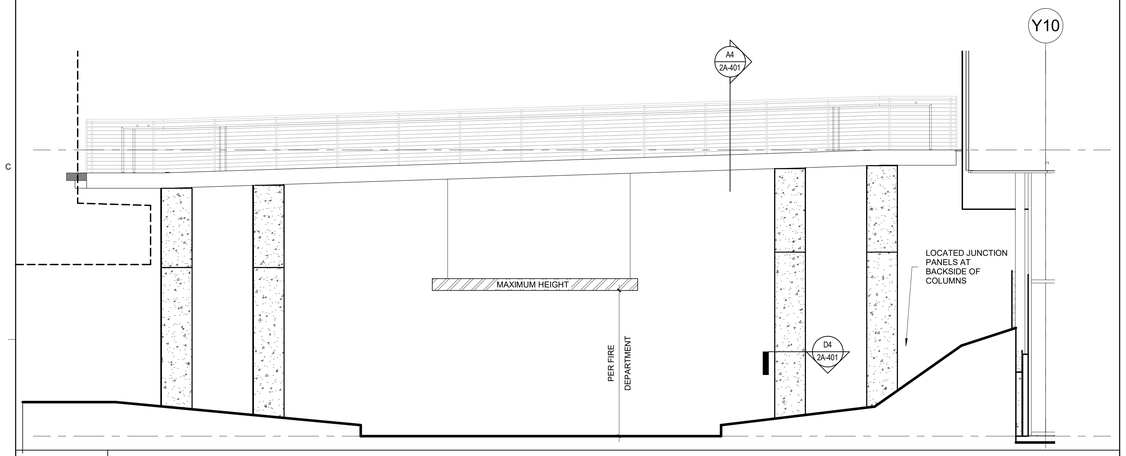
D1 SECTION - EAST

A4 / 2A-401 | 1/4" = 1'-0"



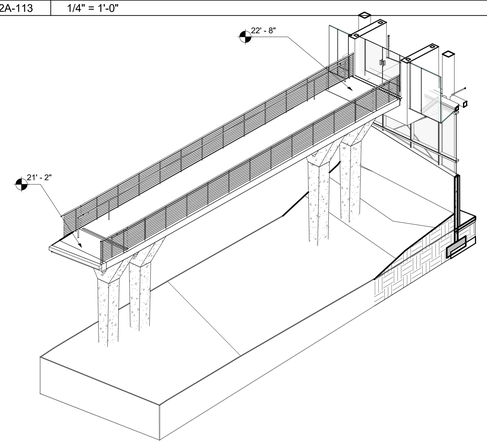
D4 SECTION - COLUMN PROFILE

A4 / 2A-401 | 1 1/2" = 1'-0"

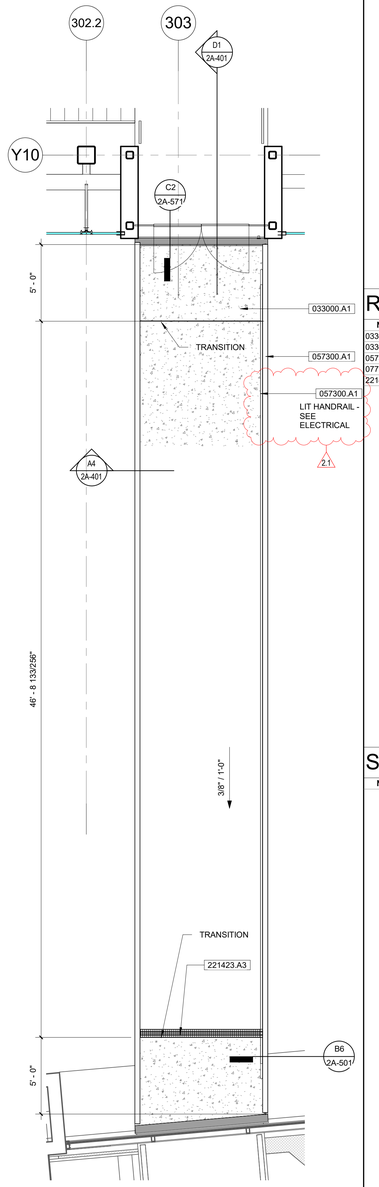


B1 PEDESTRIAN BRIDGE ELEVATION - EAST

A1 / 2A-113 | 1/4" = 1'-0"

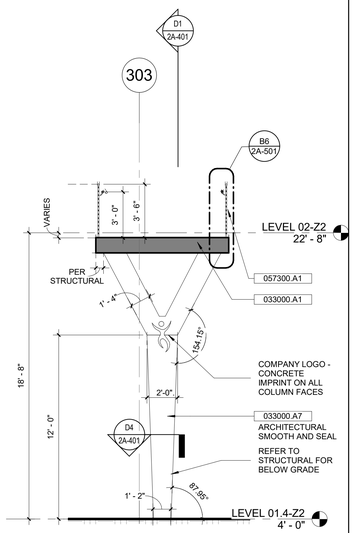


A1 PEDESTRIAN BRIDGE @ ATRIUM



A5 EXTERIOR BRIDGE - CP1 & CP2 BUILDINGS

A1 / 2GS-101 | 1/4" = 1'-0"



A4 ELEVATION - COLUMN TYP.

D1 / 2A-203 | 1/4" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. SEE SPECIFICATIONS FOR FLATNESS/LEVELNESS/FINISH OF CONCRETE FLOORS, CEILINGS, WALLS, AND COLUMNS.
3. ALL WALLS TO BE FULL HEIGHT U.N.O.
4. SEE ENLARGED FLOOR PLANS FOR ROOM NAMES & NUMBERS.
5. TAPERED ROOF SLOPES BE MINIMUM 1/4" = 1'-0"
6. ALL STRUCTURAL STEEL SHALL BE PROTECTED WITH FIRE RESISTIVE MATERIAL PER FIRE RATING SCHEDULE
7. a) GC TO PROVIDE EXPOSED STAINLESS STEEL METAL FLASHING (MIN 4" BELOW GRADE) WHERE WATERPROOFING IS SHOWN ON FOUNDATION WALL.
   b) GC TO PROVIDE UV STABLE COATING SYSTEM OVER CONCRETE AND MIN. 4" BELOW GRADE - LAP VAPOR BARRIER OVER SYSTEM.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A1	CAST-IN-PLACE CONCRETE
033000.A7	CAST-IN-PLACE COLUMN FOR PEDESTRIAN BRIDGE
057300.A1	STAINLESS STEEL CABLE GUARD RAIL
077100.B2	SCUPPER, LEADER HEAD & DOWNPIPE
221423.A3	TRENCH DRAIN

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

Sheet Title

ENLARGED PEDESTRIAN BRIDGE @ ATRIUM

Sheet No.

2A-401

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

4/25/2017 10:59:21 AM
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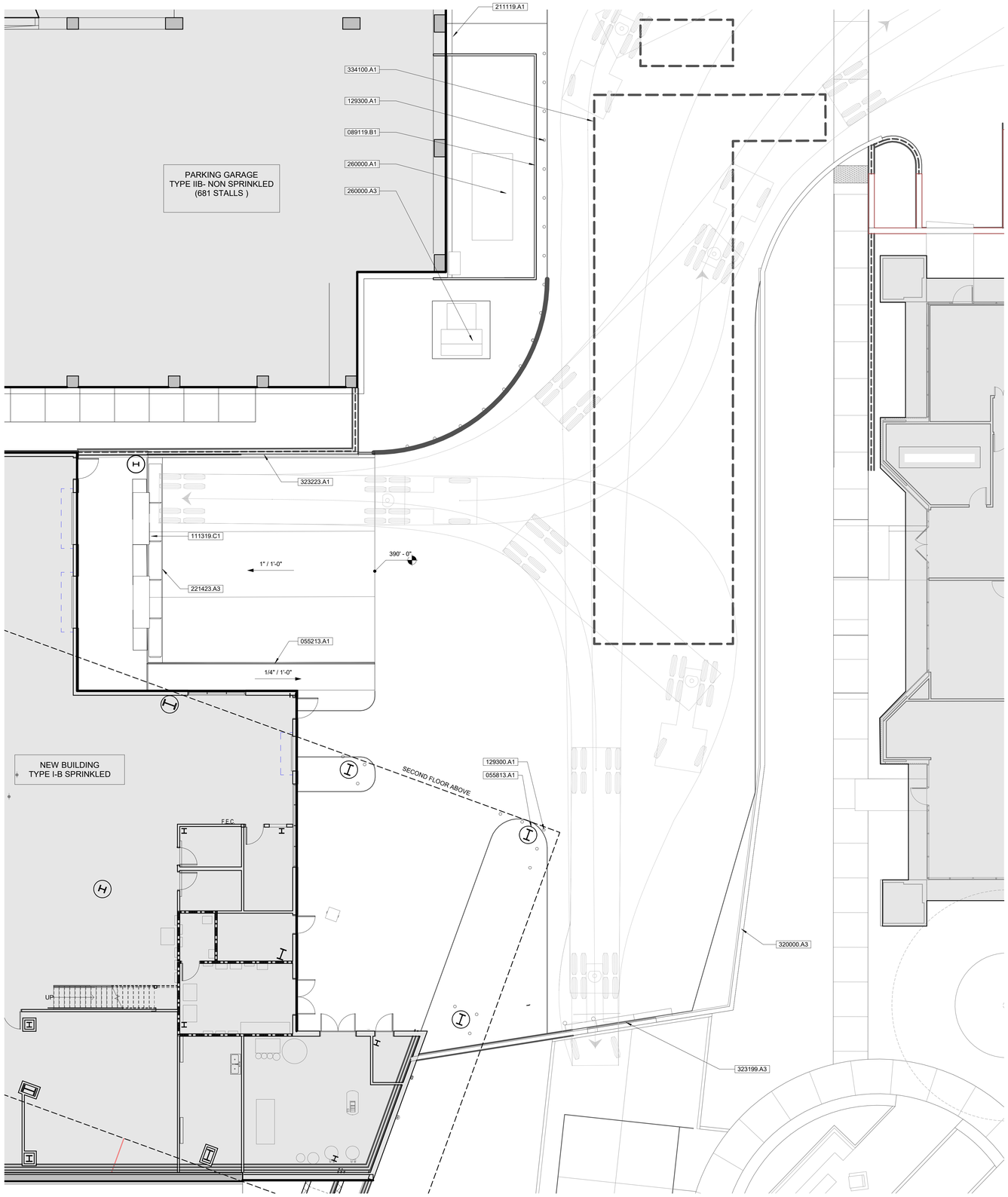

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
055213.A1	TUBE RAILING SYSTEM
055813.A1	ALUMINUM COLUMN COVERS
089119.B1	LOUVER SCREEN
111319.C1	LOADING DOCK BUMBER
129300.A1	BOLLARD
211119.A1	NEW FIRE DEPARTMENT CONNECTION
221423.A3	TRENCH DRAIN
260000.A1	NEW EMERGENCY GENERATOR, SEE ELECTRICAL
260000.A3	NEW TRANSFORMER, SEE ELECTRICAL
320000.A3	WOOD SCREEN WALL, SEE LANDSCAPE
323199.A3	12' WIDE ROLLING FIRE LANE GATE, SEE LANDSCAPE
323223.A1	RETAINING WALL
334100.A1	NEW UNDERGROUND STORMWATER STRUCTURES, SEE CIVIL

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

LEGEND

- PROPERTY LINE
- BUILDING - SEE DESCRIPTIONS
- FIRE LANE, SEE SHEET 2AS-103
- ACCESSIBLE PATH OF TRAVEL TO RIGHT OF WAY

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title

ENLARGED SITE PLAN - LOADING DOCK

Sheet No.

2AS-402

A1 | **SITE PLAN - LOADING DOCK**

A1 / 2AS-101 | 1/8" = 1'-0"

N

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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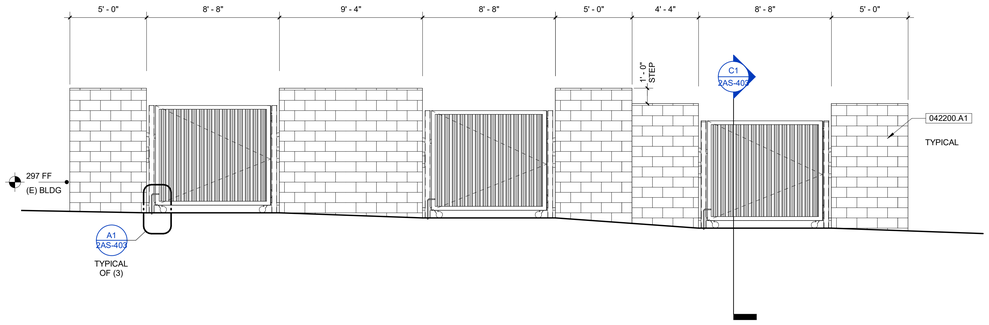
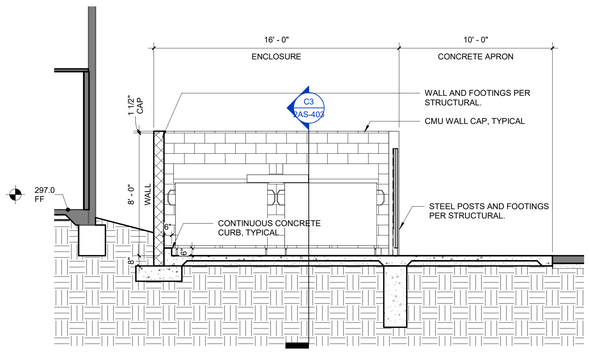


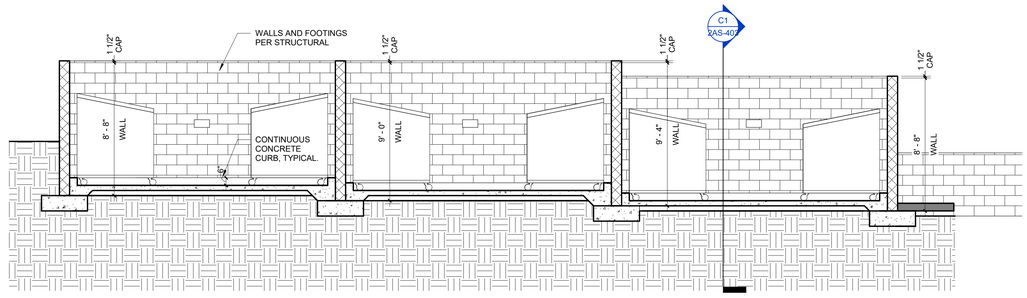
D3 TRASH ENCLOSURE - NORTH ELEVATION

A3 / 2AS-403 | 1/4" = 1'-0"



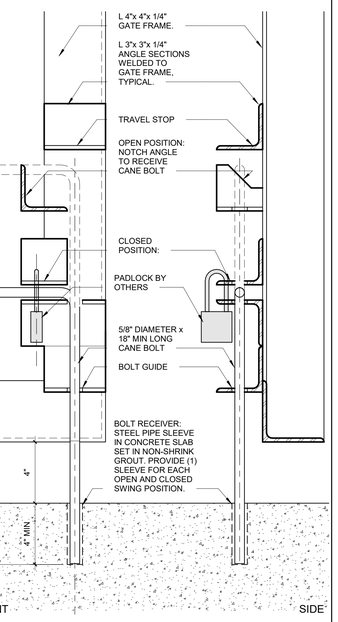
C1 TRASH ENCLOSURE - LATERAL SECTION

A3 / 2AS-403 | 1/4" = 1'-0"



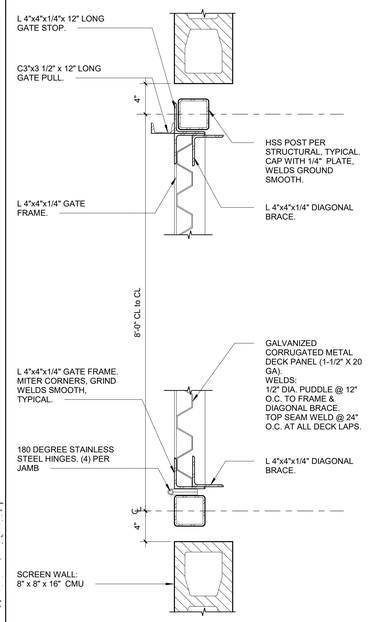
C3 TRASH ENCLOSURE - LONGITUDINAL SECTION

A3 / 2AS-403 | 1/4" = 1'-0"



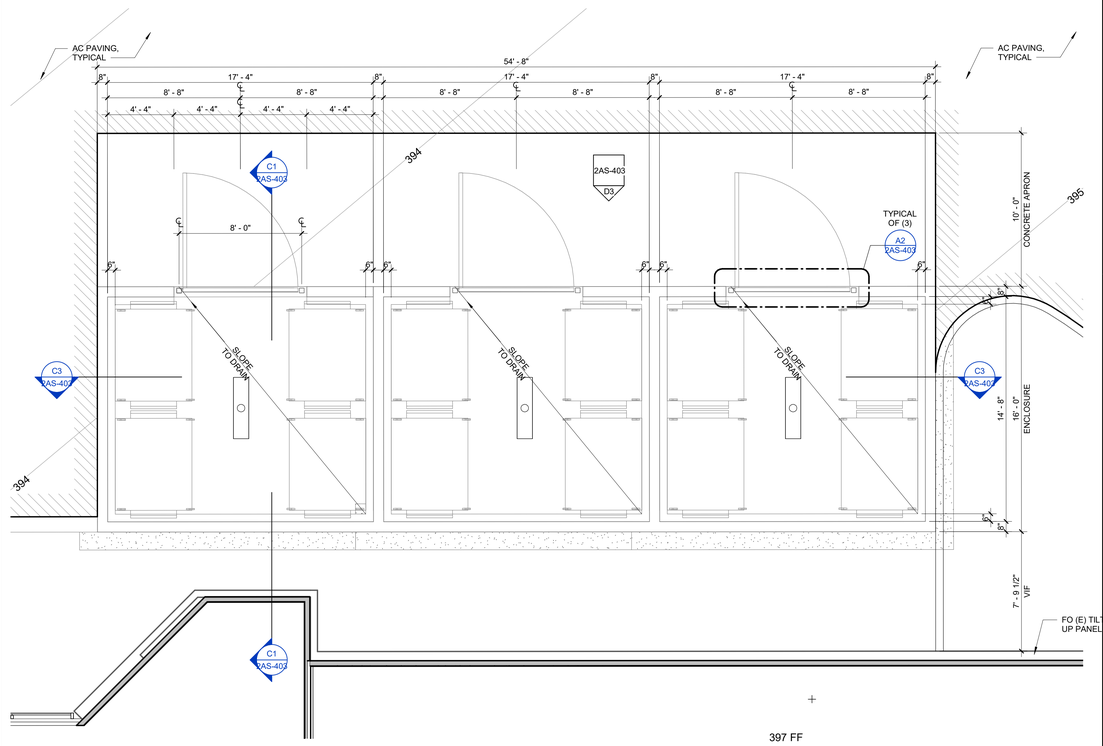
A1 TRASH ENCLOSURE CANE BOLT

D3 / 2AS-403 | 3" = 1'-0"



A2 TRASH ENCLOSURE GATE

A3 / 2AS-403 | 1 1/2" = 1'-0"



A3 TRASH ENCLOSURE PLAN

A1 / 2AS-101 | 1/4" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
042200.A1	CONCRETE UNIT MASONRY

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title

ENLARGED SITE PLAN - TRASH ENCLOSURE

Sheet No.

2AS-403

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002

HVAC GENERAL NOTES

1. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO ENSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.

2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH ALL OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.

3. CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, P.O.C.'s, AND AVAILABILITY OF ALL EXISTING ITEMS (I.E.: OUTSIDE AIR, CWS & CWR, EXHAUST ETC.) PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.

4. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF DUCTWORK AND PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR WHICH WOULD INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE ITEMS CONCERNED.

5. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'s AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURER'S RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.

6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OF CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORM TO MANUFACTURER'S INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.

7. ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTION THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.

8. DUCT SIZES INDICATED ON DRAWINGS ARE INSIDE NET CLEARANCE DIMENSIONS.

9. CONTRACTOR MAY, AT HIS OPTION, REVISE DUCTWORK SIZING AND ROUTING TO ALLOW FOR INSTALLATION IN THE AVAILABLE SPACE. DUCTWORK THAT IS RESIZED MUST MAINTAIN THE SAME CROSS-SECTIONAL AREA.

10. FLEX DUCT IS LIMITED TO A MAXIMUM OF 7' AT EACH REGISTER.

11. ALL NEW SUPPLY, RETURN, AND EXHAUST (AIR DISTRIBUTION) GRILLES, REGISTERS, AND DIFFUSERS SHALL MATCH (IF APPLICABLE) EXISTING, AND BE APPROVED BY ARCHITECT. THE MAXIMUM NOISE NC LEVEL SHALL BE 35.

12. ALL SUPPLY, RETURN, AND EXHAUST REGISTER CONNECTIONS TO DUCTWORK SHALL BE PROVIDED WITH ACCESSIBLE MANUAL VOLUME DAMPERS. ALTERNATIVELY, ACCESSIBLE MANUAL VOLUME DAMPERS MAY BE PROVIDED IN DUCT WORK FEEDER LINES SERVING INDIVIDUAL REGISTERS.

13. SUBSTITUTION OF HVAC EQUIPMENT WITH EFFICIENCIES LOWER THAT THOSE INDICATED ON THE PLANS MAY REQUIRE RECALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE ASSUMES FULL RESPONSIBILITY FOR THE RECALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS.

14. IF THE CONTRACTOR'S USE OF SUBSTITUTE MATERIALS, EQUIPMENT, OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES' WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.

15. SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.

16. WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY.

17. NO RANGE HOODS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.

18. A. CONTRACTOR TO VERIFY LOCATION OF FIRE AND FIRE/SMOKE BARRIER WALLS WITH ARCHITECT PRIOR TO FIRE AND/OR SMOKE DAMPER, DETECTOR AND ACTUATOR INSTALLATION.

    B. ALL CEILING FIRE DAMPERS TO BE ONE (1) HOUR U.L. AND C.S.F.M. APPROVED.

    C. ALL FIRE RATED WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.

    D. ALL SMOKE BARRIER WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.

    E. ALL PENETRATIONS OF ONE (1) HOUR CORRIDOR WALLS AND CEILINGS THAT WOULD REQUIRE THE INSTALLATION OF A FIRE DAMPER SHALL BE APPROVED WITH A U.L. AND C.S.F.M. APPROVED COMBINATION SMOKE/FIRE DAMPER, (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.

    F. PROVIDE ALL FIRE & SMOKE DAMPERS WITH ACCESS DOORS AS NECESSARY.

MECHANICAL

SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
R		ROUND DUCT RISE/DUCT DROP		DTR	DOWN THRU ROOF
R/D		RECTANGULAR DUCT RISE/DUCT DROP		EA	EXHAUST AIR
		DUCT WITH ACCOUSTIC DUCT LINER		ELECT	ELECTRICAL
		DUCT SECTION - POSITIVE PRESSURE		FPM	FEET PER MINUTE
		DUCT SECTION - NEGATIVE PRESSURE		GPM	GALLONS PER MINUTE
		DUCT SECTION - EXHAUST		HP	HORSEPOWER
	DL/UC	DOOR LOUVER OR UNDERCUT		KW	KILOWATT
Tx		ROOM THERMOSTAT & ZONE NUMBER/TEMP. SENSOR		MECH	MECHANICAL
CO		ROOM CARBON DIOXIDE SENSOR.		NO.	NUMBER
TS		REMOTE TEMPERATURE SENSOR.		NTS	NOT TO SCALE
HHWS	HHWS	HEATING HOT WATER SUPPLY		OA	OUTSIDE AIR
HHWR	HHWR	HEATING HOT WATER RETURN		PSI	POUNDS PER SQUARE INCH
RL	RL	REFRIGERANT LIQUID		PSIG	POUNDS PER SQUARE INCH GAUGE
RS	RS	REFRIGERANT SUCTION		PVC	POLYVINYL CHLORIDE
	MOD	MOTOR OPERATED DAMPER		RA	RETURN AIR
	MVD	MANUAL VOLUME DAMPER		SA	SUPPLY AIR
	SFD	COMBINATION SMOKE & FIRE DAMPER		STRUCT	STRUCTURAL
	GV	GATE VALVE		TYP	TYPICAL
	GLV	GLOBE VALVE		UTR	UP THRU ROOF
	CHV	CHECK VALVE		V/PH/HZ	VOLTS/PHASE/HERTZ
	BV	BALL VALVE		VAV	VARIABLE AIR VOLUME
	BFV	BUTTERFLY VALVE		VFD	VARIABLE FREQUENCY DRIVE
	TDV	TRIPLE DUTY VALVE - CHECK/BALANCING/SHUT-OFF		VTR	VENT THRU ROOF
	RED	REDUCER			
	STR	STRAINER			
	U.	UNION			
	PG	PRESSURE GAUGE			
	T.	THERMOMETER			
	AV	AIR VENT			
M	C.V.	CONTROL VALVE - 2-WAY			
M	C.V.	CONTROL VALVE - 3-WAY			
	PRV	PRESSURE REDUCING VALVE			
	P&T	PRESSURE & TEMPURATURE RELIEF VALVE			
M	PGV	PLUG VALVE			
	T.W.	TEST WELL			
SD	SD	DUCT SMOKE DETECTOR			
TP	TP	TEST PORT			
	AHU	AIR HANDLING UNIT			
	AP	ACCESS PANEL			
	ARCH	ARCHITECT OR ARCHITECTURAL			
	BTU	BRITISH THERMAL UNITS			
	BTUH	BRITISH THERMAL UNITS PER HOUR			

EQUIPMENT IDENTIFICATION SYMBOL
- EQUIPMENT TYPE
- EQUIPMENT IDENTIFIER

VRF FC INDENTIFICATION SYMBOL (1.1)
- EQUIPMENT TYPE
- NUMBER
- ASSOCIATED VRF MODULE

VAV IDENTIFICATION SYMBOL (2.1.1)
- EQUIP TYPE
- NUMBER
- FLOOR
- ASSOCIATED AHU/EF

SAV/EAV IDENTIFICATION SYMBOL (1.1)
- EQUIPMENT TYPE
- NUMBER
- ASSOCIATED AHU/EF

DIFFUSER / REGISTER OR GRILLE TYPE
- NECK SIZE (IN)
- AIR QUANTITY (CFM)

- M — FURNISHED & INTALLED BY MECHANICAL
- ME — FURNISHED & MECHANICAL BY ELECTRICAL
- E — FURNISHED & INTALLED BY ELECTRICAL

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL LEGENDS & ABBREVIATIONS

Sheet No.
2M-001

8/7/2017 2:39:09 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

100% OSA PACKAGED DX AIR HANDLER SCHEDULE

MARK	MANUFACTURER & MODEL NO.	AREA SERVED	NOMINAL CAPACITY (TONS)	AIRFLOW CONTROL	LOCATION	SUPPLY FAN DATA						COOLING COIL DIRECT EXPANSION COOLING DATA							HEATING COIL (HEATING HOT WATER)								ELECTRICAL DATA				PRE-FILTER	FINAL FILTER	OPER. WT. (LBS.)	REMARKS
						AIRFLOW (CFM)	E.S.P (IN. WG)	DRIVE	S.F. MOTOR			ENTERING AIR		LEAVING AIR (UNIT)		EER (ARI)	COMPRESSORS		E.A.T. DB (DEG. F)	L.A.T. DB (DEG. F)	E.W.T. (DEG. F)	L.W.T. (DEG. F)	FLOWRATE (GPM)	(7) CONTROL VALVE				VOLT/PH/HZ	MCA	MROPD	EMERGENCY POWER				
									QTY.	HP (BHP)	VFD BYPASS	DB (DEG. F)	WB (DEG. F)	DB (DEG. F)	WB (DEG. F)		TYPE	QTY						MANUFACTURER	MODEL	MIN AUTH.	TYPE							
AHU 1A	DAIKIN DPS015A		15	CAV	ROOF	3,000	2.0	DIRECT	1	8 (4.5)	YES	100	71	53	53	11.1	SCROLL	2	38	67	140	110	6.3	-	-	-	-	460/3/60	31.8	40	YES	65%	95%	2350	(1)(2)(3)(4)(5)(6)(7)
AHU 1B	DAIKIN DPS015A		15	CAV	ROOF	3,000	2.0	DIRECT	1	8 (4.5)	YES	100	71	53	53	11.1	SCROLL	2	38	67	140	110	6.3	-	-	-	-	460/3/60	31.8	40	YES	65%	95%	2350	(1)(2)(3)(4)(5)(6)(7)
AHU 2	DAIKIN RPS071D	BUFFER	65	VAV	ROOF	13,000	2.5	DIRECT	1	20 (15.1)	YES	91	71	53	53	10.2	SCROLL	6										460/3/60	150.6	175	YES	65%	95%	9800	(1)(2)(3)(4)(5)

REMARKS:

(1) PROVIDE SMOKE DETECTOR IN SUPPLY AIR DUCT AND INTERLOCK WITH UNIT CONTROLS AND FIRE ALARM SYSTEM PER CMC 609.

(2) PROVIDE UNIT WITH A COASTAL PROTECTION COATING ON ALL COMPONENTS EXPOSED TO HIGH LEVELS OF OUTSIDE AIR. (INCLUDING BUT NOT LIMITED TO THE AHU INTERIOR AND EXTERIOR HOUSING, EVAPORATOR, AND CONDENSING COIL).

(3) PROVIDE WITH VIBRATION ISOLATION CURB (CURB HEIGHT NOT TO EXCEED 30" TALL)

(4) PROVIDE WITH INVERTER SCROLL COMPRESSORS, HOT GAS REHEAT, FACTORY INSTALLED AND WIRED VARIABLE FREQUENCY DRIVE AND MANUFACTURER CONTROLS

(5) CONTRACTOR TO PROVIDE AND FIELD INSTALL STAINLESS STEEL MOISTURE ELIMINATOR AT OSA INLET.

(6) UNITS SHALL OPERATE IN DUTY-STANDBY CONFIGURATION. REFER TO CONTROLS PLANS FOR OPERATION.

(7) BASIS OF DESIGN FOR SYSTEM HEATING HOT WATER LOOP DESIGNED WITH VICTAULIC COMBINATION BALANCING AND CONTROL VALVES. SYSTEM DESIGNED WITH A COMBINATION OF PRESSURE INDEPENDENT BALANCING VALVES (P.I.B.V.) AND MANUAL/AUTOFLOW BALANCING VALVES (A.B.V) AT THE TERMINALS AS WELL AS PRESSURE INDEPENDENT BALANCING VALVES AT SELECT LOOP BRANCHES TO ACHIEVE MINIMUM VALVE AUTHORITIES NO LESS THAN 0.25 AT EACH TERMINAL. CONTRACTOR AT THEIR OPTION MAY SUBSTITUTE THE PROPOSED MANUFACTURER BUT SHALL SUBMIT ENGINEERED VALVE SYSTEM PLANS INDICATING THE MINIMUM AUTHORITY AT EACH TERMINAL.

DEDICATED OUTSIDE AIR UNIT SCHEDULE

MARK	MANUFACTURER & MODEL NO.	AREA SERVED	NOMINAL CAPACITY (TONS)	AIRFLOW CONTROL	LOCATION	SUPPLY FAN DATA						COOLING COIL DIRECT EXPANSION COOLING DATA						HEATING (NATURAL GAS)					ELECTRICAL DATA				FINAL FILTER	OPER. WT. (LBS.)	REMARKS
						AIRFLOW (CFM)	E.S.P (IN. WG)	DRIVE	S.F. MOTOR			ENTERING AIR		LEAVING AIR (UNIT)	EER (ARI)	COMPRESSORS		E.A.T. DB (DEG. F)	L.A.T. DB (DEG. F)	TYPE	HTG INPUT (BTU)	HTG OUTPUT (BTU)	HTG EFF.	VOLT/PH/HZ	MCA	MROPD	EMERGENCY POWER			
									QTY.	HP (BHP)	VFD BYPASS	DB (DEG. F)	WB (DEG. F)	DB (DEG. F)		TYPE	QTY												
DOAS 1	DAIKIN RPS045D	EAST WING	45	CAV	ROOF	15000	1.0	FIXED	1	10 (7.3)	NO	91	71	65	10.3	SCROLL	3	38	65	NAT. GAS	812500	650000	80%	460/3/60	105.5	125	NO	65%	9150	(1)(2)(3)(4)(5)
DOAS 2	DAIKIN RPS045D	WEST WING	45	CAV	ROOF	15000	1.0	FIXED	1	10 (7.3)	NO	91	71	65	10.3	SCROLL	3	38	65	NAT. GAS	812500	650000	80%	460/3/60	105.5	125	NO	65%	9150	(1)(2)(3)(4)(5)

REMARKS:

(1) PROVIDE SMOKE DETECTOR IN SUPPLY AIR DUCT AND INTERLOCK WITH UNIT CONTROLS AND FIRE ALARM SYSTEM PER CMC 609.

(2) PROVIDE UNIT WITH A COASTAL PROTECTION COATING ON ALL COMPONENTS EXPOSED TO HIGH LEVELS OF COASTAL AIR. (INCLUDING BUT NOT LIMITED TO THE AHU INTERIOR AND EXTERIOR HOUSING, EVAPORATOR, AND CONDENSING COIL).

(3) PROVIDE WITH VIBRATION ISOLATION CURB (CURB HEIGHT NOT TO EXCEED 30" TALL)

(4) PROVIDE WITH INVERTER SCROLL COMPRESSORS, HOT GAS REHEAT, FACTORY INSTALLED AND WIRED VARIABLE FREQUENCY DRIVE AND MANUFACTURER CONTROLS

(5) CONTRACTOR TO PROVIDE AND FIELD INSTALL STAINLESS STEEL MOISTURE ELIMINATOR AT OSA INLET.

PACKAGED DX VAV AIR HANDLER (COOLING ONLY)

MARK	MANUFACTURER & MODEL NO.	AREA SERVED	NOMINAL CAPACITY (TONS)	LOCATION	SUPPLY FAN						MINIMUM OUTSIDE AIR (CFM)	DIRECT EXPANSION COOLING DATA						ELECTRICAL DATA				PRE-FILTER	FINAL FILTER	OPER. WT. (LBS.)	REMARKS
					AIRFLOW (CFM)		E.S.P (IN. WG)	S.F. MOTOR				ENTERING AIR		LEAVING AIR		O.A. TEMPERATURE (DEG. F)	EER (ARI)	VOLT/PH/HZ	MCA	MROPD	EMERGENCY POWER				
					MAX	MIN		QTY.	HP (BHP)	BYPASS		DB (DEG. F)	WB (DEG. F)	DB (DEG. F)	WB (DEG. F)										
AC 1	DAIKIN RDT045D	ATRIUM	45	ROOF	16,000	8,000	1.0	1	10 (9)	NO	-	80	67	56	56	95	10.5	460/3/60	112	125	NO	30%	65%	9775	(1)(2)(3)(4)(5)

REMARKS:

(1) PROVIDE SMOKE DETECTOR IN SUPPLY AIR DUCT AND INTERLOCK WITH UNIT CONTROLS AND FIRE ALARM SYSTEM PER CMC 609.

(2) PROVIDE UNIT WITH A COASTAL PROTECTION COATING ON ALL COMPONENTS EXPOSED TO HIGH LEVELS OF COASTAL AIR. (INCLUDING BUT NOT LIMITED TO THE AHU INTERIOR AND EXTERIOR HOUSING, EVAPORATOR, AND CONDENSING COIL).

(3) PROVIDE WITH VIBRATION ISOLATION CURB (CURB HEIGHT NOT TO EXCEED 30" TALL)

(4) PROVIDE WITH INVERTER SCROLL COMPRESSORS, HOT GAS REHEAT, FACTORY INSTALLED AND WIRED VARIABLE FREQUENCY DRIVE AND MANUFACTURER CONTROLS

(5) CONTRACTOR TO PROVIDE AND FIELD INSTALL STAINLESS STEEL MOISTURE ELIMINATOR AT OSA INLET.

DEHUMIDIFICATION UNIT

MARK	MANUFACTURER & MODEL NO.	SERVICE	AIRFLOW (CFM)	REACT CFM	PROCESS EXTERNAL STATIC	REACT EXTERNAL STATIC	DEHUMIDIFICATION LB/HR	ELECTRICAL DATA			OPER. WT. (LBS)	REMARKS
								V/PH/HZ	FCL	EMERGENCY POWER		
DH 1	BRY-AIR MP-175	DRY ROOM 453	175	60	0.60" WC	0.40" WC	5.9	208/1/60	22.8	YES	175	(1)

REMARKS:

(1) PROVIDE WITH BACNET INTERFACE CARD FOR INTEGRATION INTO BMS

EXPANSION TANK SCHEDULE (HHW)

MARK	MANUFACTURER & MODEL NO. OR EQUAL	SERVICE	VOLUME (GALLONS) TANK/ACCEPTANCE	DIMENSIONS DIA. x LENGTH	CONN. SIZE	OPER. WT. (LBS.)	REMARKS
ET 1	BELL & GOSSETT B-100LA	HHW LOOP	26/11	16x39	1	325	

CHEMICAL POT FEEDER

MARK	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	TYPE	CAPACITY (GAL)	WT (LBS)	REMARKS
CHM 1	GRISWOLD FB-5-SB-CS-Z	ROOF	HHW LOOP	MANUAL BYPASS	5	50	(1)

REMARKS:

(1) FLOOR MOUNTED

BUFFER TANK SCHEDULE (HHW)

MARK	MANUFACTURER & MODEL NUMBER	SERVICE	VOLUME (GALLONS)	INLET SIZES (INCHES)				OPER. WT (LBS.)	REMARKS
				SYS. IN	SYS. OUT	BLR. IN	BLR. OUT		
BT 1	RAYPAK 115V	HHW	115	3	3	3	3	1,300	

REMARKS:

(1) FLOOR MOUNTED. PROVIDE WITH EQUIPMENT INSULATION KIT.

HUMIDIFICATION UNIT SCHEDULE

MARK	MFR & MODEL NO.	AREA SERVED	AIRFLOW (CFM)	ENTERING DB/RH (F/%)	LEAVING DB/RH (F/%)	HUMIDIFICATION LB/HR	HTG SOURCE	WATER QUALITY	ELECTRICAL DATA				OPER. WT. (LBS.)	REMARKS
									HUMIDIFIER		ENCLOSURE VENT FAN			
									V / PH / HZ	EMERGENCY POWER	V / PH / HZ	EMERGENCY POWER		
H 1	PURE AIR ES SERIES	AHU 1A & 1B	3,000	91F 10% RH	-	170	ELECTRIC	R.O.	460/3/60	YES	120/1/60	YES	-	(1)

REMARKS:

(1) OUTDOOR RATED HUMIDIFIER LOCATED ON ROOF. ROUTE TWO POWER CIRCUITS TO HUMIDIFIER AS NOTED ON SCHEDULES.

(2) PROVIDE WITH INDEPENDENT RO WATER SKID ROOF. REFER TO PLUMBING PLANS FOR DETAILS.

(3) PROVIDE WITH DISPERSION NOZZLE AND HUMIDIFIER DRAIN WITH PURE-AIR DRAIN COOLER BOX. REFER TO PLUMBING PLANS FOR DRAIN AND WATER CONNECTION.

(4) PROVIDE WITH ULTRA SHORT STEAM DISPERSION NOZZLES. STEAM DISTRIBUTOR LOCATED ON ROOF IN COMMON SUPPLY DUCT.

(5) REFER TO CONTROLS PLANS FOR OPERATION.

HEATING HOT WATER BOILER SCHEDULE

MARK	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	HEAT SOURCE	INPUT (MBH)	OUTPUT (MBH)	CAPACITY TURNDOWN	EWT (DEG. F)	LWT (DEG. F)	ELECTRICAL				E POWER	OPER. WEIGHT (LBS.)	REMARKS
										BOILER		EXTERNAL BOILER PUMP				
										V / PH / HZ	AMPS	V / PH / HZ	AMPS			
B 1	RAYPAK XTHERM 1005A	ROOF	HHW	NAT GAS	999	959	7 : 1	110	140	120/1/60	12	120/1/60	10	YES	1,100	(1)(2)
B 2	RAYPAK XTHERM 1005A	ROOF	HHW	NAT GAS	999	959	7 : 1	110	140	120/1/60	12	120/1/60	10	YES	1,100	(1)(2)

REMARKS:

(1) CONDENSING BOILER CONFIGURED IN PRIMARY-SECONDARY LOOP CONFIGURATION.

(2) BOILERS DESIGNED FOR DUTY-STANDBY. REFER TO CONTROL PLANS FOR OPERATION.

PUMP SCHEDULE (HHW)

MARK	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	TYPE	MAX FLOW (GPM)	FT. HD.	MIN. EFF %	RPM	ELECTRICAL		E POWER	OPER. WT. (LBS.)	REMARKS
									V / PH / HZ	HP (BHP)			
P 1	BELL & GOSSETT E-90 2AAB	ROOF	HHW (SECONDARY)	CENT. INLINE	100	50	67	3600	460/3/60	3 (2.02)	YES	250	VFD CONTROLLED (1)(2)(3)(4)
P 2	BELL & GOSSETT E-90 2AAB	ROOF	HHW (SECONDARY)	CENT. INLINE	100	50	67	3600	460/3/60	3 (2.02)	YES	250	VFD CONTROLLED (1)(2)(3)(4)

REMARKS:

(1) SYSTEM LOOP CONFIGURED IN PRIMARY-SECONDARY CONFIGURATION. REFER TO HHW PIPING DIAGRAM FOR SYSTEM CONFIGURATION AND COMPONENT REQUIREMENTS.

(2) REFER TO CONTROLS PLANS FOR OPERATION.

(3) PROVIDE WITH VARIABLE FREQUENCY DRIVE (VFD) WITHOUT BYPASS. VFD SHALL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR VFD REQUIREMENTS AND LOCATION ON PLANS. PROVIDE VFD WITH BACNET BMS INTERFACE.

(4) PROVIDE WITH EQUIPMENT INSULATION KIT.

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GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL SCHEDULES

Sheet No.
2M-002

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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SPLIT SYSTEM COOLING ONLY SCHEDULE

MARK	MANUFACTURER & MODEL NO.	SERVICE	NOMINAL TONS	AIRFLOW (CFM)	TOTAL COOLING MBH (ARI)	SENSIBLE COOLING MBH (ARI)	SEER (EER)	ELECTRICAL DATA V/PH/HZ	MCA	MOCP	EMERGENCY POWER	OPER. WT. (LBS)	REMARKS
SSFC 1.1A	DAIKIN FTXS36LVJU	MACHINE ROOM 119	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 1.1A	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 1.1B	DAIKIN FTXS36LVJU	MACHINE ROOM 119	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 1.1B	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 1.2	DAIKIN FTKN24NMVJU	AV ROOM 121	2	720	22.0	16.12	15.0 (9.20)	(2)				75	
SSCU 1.2	DAIKIN RKN24NMVJU							208/1/60	18.3	20.0	YES	150	(1)
SSFC 1.3A	DAIKIN FTKN24NMVJU	IDF ROOM 116	2	720	22.0	16.12	15.0 (9.20)	(2)				75	
SSCU 1.3A	DAIKIN RKN24NMVJU							208/1/60	18.3	20.0	YES	150	(1)
SSFC 1.3B	DAIKIN FTKN24NMVJU	IDF ROOM 116	2	720	22.0	16.12	15.0 (9.20)	(2)				75	
SSCU 1.3B	DAIKIN RKN24NMVJU							208/1/60	18.3	20.0	YES	150	(1)
SSFC 1.4A	DAIKIN FTXS36LVJU	MACHINE ROOM 119	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 1.4A	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 1.4B	DAIKIN FTXS36LVJU	MACHINE ROOM 119	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 1.4B	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 1.5A	DAIKIN FXMQ48PBVJU	MAIN ELEC 126	4	1,375	48.0	35.8	16 (9.4)	208/1/60	3.4	15.0	YES	125	(1)
SSCU 1.5A	DAIKIN RXTQ48TAVJU							208/1/60	29.1	35.0	YES	200	
SSFC 1.5B	DAIKIN FXMQ48PBVJU	MAIN ELEC 126	4	1,375	48.0	35.8	16 (9.4)	208/1/60	3.4	15.0	YES	125	(1)
SSCU 1.5B	DAIKIN RXTQ48TAVJU							208/1/60	29.1	35.0	YES	200	
SSFC 1.6	DAIKIN FTXS36LVJU	MPOE 130	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 1.6	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 2.1A	DAIKIN FTXS36LVJU	ELEC 216	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 2.1A	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 2.1B	DAIKIN FTXS36LVJU	ELEC 216	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 2.1B	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 2.2A	DAIKIN FTKN24NMVJU	I T CLOSET 214A	2	720	22.0	16.12	15.0 (9.20)	(2)				75	
SSCU 2.2A	DAIKIN RKN24NMVJU							208/1/60	18.3	20.0	YES	150	(1)
SSFC 2.2B	DAIKIN FTKN24NMVJU	I T CLOSET 214A	2	720	22.0	16.12	15.0 (9.20)	(2)				75	
SSCU 2.2B	DAIKIN RKN24NMVJU							208/1/60	18.3	20.0	YES	150	(1)
SSFC 3.1A	DAIKIN FTXS36LVJU	MDF 330	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 3.1A	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 3.1B	DAIKIN FTXS36LVJU	MDF 330	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 3.1B	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 3.1C	DAIKIN FTXS36LVJU	MDF 330	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 3.1C	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 3.2A	DAIKIN FTXS36LVJU	ELEC 332	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 3.2A	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 3.2B	DAIKIN FTXS36LVJU	ELEC 332	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 3.2B	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 4.1	DAIKIN FCQ18PAV	DRY ROOM 453	1.5	770	18.0	14.1	18.6 (13.0)	208/1/60	0.4	15	YES	75	(1)
SSCU 4.1	DAIKIN RZQ18PV							208/1/60	16.5	20	YES	150	
SSFC 4.2A	DAIKIN FTXS36LVJU	ELEC ROOM 434	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 4.2A	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 4.2B	DAIKIN FTXS36LVJU	ELEC ROOM 434	3	770	36.0	22.39	17.9 (8.37)	(2)				75	
SSCU 4.2B	DAIKIN RXS36LVJU							208/1/60	19.5	20.0	YES	225	(1)
SSFC 4.3A	DAIKIN FTKN24NMVJU	IDF 432	2	720	22.0	16.12	15.0 (9.20)	(2)				75	
SSCU 4.3A	DAIKIN RKN24NMVJU							208/1/60	18.3	20.0	YES	150	(1)
SSFC 4.3B	DAIKIN FTKN24NMVJU	IDF 432	2	720	22.0	16.12	15.0 (9.20)	(2)				75	
SSCU 4.3B	DAIKIN RKN24NMVJU							208/1/60	18.3	20.0	YES	150	(1)

REMARKS:

(1) DUCTLESS SPLIT SYSTEM FAN COIL. PROVIDE WITH BACNET INTERFACE CARD. REFER TO CONTROLS PLANS FOR REQUIREMENTS. PROVIDE UNIT WITH A COASTAL PROTECTION COATING ON ALL COMPONENTS EXPOSED TO HIGH LEVELS OF COASTAL AIR. (INCLUDING BUT NOT LIMITED TO THE AHU INTERIOR AND EXTERIOR HOUSING, EVAPORATOR, AND CONDENSING COIL).

(2) INDOOR UNIT POWERED BY OUTDOOR UNIT.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	TYPE	AIRFLOW (CFM)	ESP (IN.)	FAN (RPM)	SOUND (DBA)	ELECTRICAL EMER. POWER	VFD BYPASS	V/PH/HZ	HP (BHP)	OPER. WT. (LBS.)	REMARKS
EF 1A	GREENHECK CSW-13-BI	ROOF		UTILITY SET	3,000	1.0	2,385	85	YES	YES	460/3/60	2 (-)	200	(1)(4)(5)(6)
EF 1B	GREENHECK CSW-13-BI	ROOF		UTILITY SET	3,000	1.0	2,385	85	YES	YES	460/3/60	2 (-)	200	(1)(4)(5)(6)
EF 2A	GREENHECK CSW	ROOF	GEN LABS	UTILITY SET	14,000	2.0	1,962	86	NO	NO	460/3/60	15 (-)	700	(3)(4)(5)(6)
EF 2B	GREENHECK CSW	ROOF	GEN LABS	UTILITY SET	14,000	2.0	1,962	86	NO	NO	460/3/60	15 (-)	700	(3)(4)(5)(6)
EF 3A	GREENHECK CSW-22-AF	ROOF	GEN. RELIEF (WEST WING)	UTILITY SET	10,000	2.0	1,962	86	NO	NO	460/3/60	10 (-)	550	(2)(4)(5)(7)(8)
EF 3B	GREENHECK CSW-22-AF	ROOF	GEN. RELIEF (WEST WING)	UTILITY SET	10,000	2.0	1,962	86	NO	NO	460/3/60	10 (-)	550	(2)(4)(5)(7)(8)
EF 4	GREENHECK SQ-99-VG	SDG&E 138	SDG&E 138	CENT. INLINE	700	0.75	1750	65	YES	N/A	120/1/60	3/4 0.28	100	(10)
EF 5A	GREENHECK CSW-16-BI	ROOF	GEN. RELIEF (EAST WING)	UTILITY SET	5,500	2.0	2,477	89	NO	NO	460/3/60	7 1/2 (-)	350	(2)(4)(5)(7)(8)
EF 5B	GREENHECK CSW-16-BI	ROOF	GEN. RELIEF (EAST WING)	UTILITY SET	5,500	2.0	2,477	89	NO	NO	460/3/60	7 1/2 (-)	350	(2)(4)(5)(7)(8)
EF 6	GREENHECK CSW-10-BI	ROOF	1ST FLOOR HAZMAT	UTILITY SET	500	1.0	1770	63	YES	N/A	120/1/60	1 (0.16)	100	(9)(4)(5)(7)
EF 7	GREENHECK SQ-99-VG	MEZZANINE	MAIN ELEC 126	CENT. INLINE	1,080	0.5	1589	60	YES	N/A	120/1/60	1/4 (0.19)	50	(10)
EF 8	GREENHECK SQ-97-VG	MEZZANINE	MPOE	CENT. INLINE	250	0.75	1910	70	YES	N/A	120/1/60	1/2 0.22	75	(10)
EF 9	GREENHECK CSP-A250	FIRE RISER	FIRE RISER 124	CENT. INLINE	150	0.5	900	35	NO	N/A	120/1/60	51.5 WATTS	50	(10)
EF 10	GREENHECK SQ-160HP-VG	MEZZANINE	MAIN UTILITY 122	CENT. INLINE	1,800	0.75	1206	60	YES	N/A	120/1/60	1 (0.43)	200	(10)
EF 11	GREENHECK SQ-100-VG	MEZZANINE	ATS 128	CENT. INLINE	975	0.5	1496	58	YES	N/A	120/1/60	1/4 (0.16)	50	(10)

REMARKS

(1) EXHAUST SYSTEM. SYSTEM DESIGNED IN A "DUTY-STANDBY" CONFIGURATION. PROVIDE WITH MOTOR RATED VARIABLE FREQUENCY DRIVE (VFD) ON EMERGENCY POWER. REFER TO CONTROLS PLANS FOR OPERATION. VFD FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL PLANS FOR VFD LOCATION, REQUIREMENTS, AND SPECIFICATIONS.

(2) BUILDING GENERAL EXHAUST SYSTEM. SYSTEM DESIGNED AS PARALLEL EXHAUST FAN SYSTEM. EXHAUST FANS SHALL OPERATE IN UNISON TO PROVIDE BUILDING VENTILATION. PROVIDE WITH MOTOR RATED VARIABLE FREQUENCY DRIVE (VFD). REFER TO CONTROLS PLANS FOR OPERATION. VFD FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL PLANS FOR VFD LOCATION, REQUIREMENTS, AND SPECIFICATIONS.

(3) BUFFER ROOM (FUME HOOD) EXHAUST SYSTEM. REFER TO CONTROLS PLANS FOR OPERATION. PROVIDE WITH MOTOR RATED VARIABLE FREQUENCY DRIVE (VFD) ON EMERGENCY POWER. REFER TO CONTROLS PLANS FOR OPERATION. VFD FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL PLANS FOR VFD LOCATION, REQUIREMENTS, AND SPECIFICATIONS.

(4) PROVIDE WITH VIBRATION ISOLATION SPRINGS WITH 1" DEFLECTION.

(5) UTILITY SET EXHAUST FAN MOUNTED ON FIELD FABRICATED EQUIPMENT PLATFORM. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

(6) PROVIDE WITH EXHAUST STACK TO MEET REQUIRED DISCHARGE VELOCITY OF 3,000-FPM AND DISCHARGE HEIGHT OF 10'-0" ABOVE THE ROOF.

(7) PROVIDE WITH EXHAUST STACK WITH RAIN SLEEVE. LOCATE EXHAUST DISCHARGE HEIGHT OF 10'-0" ABOVE THE ROOF.

(8) BUILDING GENERAL EXHAUST. PROVIDE WITH MOTOR RATED VARIABLE FREQUENCY DRIVE (VFD). REFER TO CONTROLS PLANS FOR OPERATION. VFD FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL PLANS FOR VFD LOCATION, REQUIREMENTS, AND SPECIFICATIONS.

(9) HAZARDOUS WASTE EXHAUST SYSTEM. FAN SHALL BE SPARK RESISTANT RATED.

(10) INLINE EXHAUST FAN. PROVIDE WITH NEOPRENE VIBRATION ISOLATION HANGER ATTACHMENTS AND LINE VOLTAGE THERMOSTAT. LINE VOLTAGE THERMOSTAT SHALL BE SET TO 80F (ADJ). REFER TO CONTROLS PLANS FOR ADDITIONAL REQUIREMENTS.

SMOKE CONTROL VENTILATOR UNIT SCHEDULE

MARK	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	TYPE	AIRFLOW (CFM)	ESP (IN.)	FAN (RPM)	SOUND (DBA)	ELECTRICAL EMER. POWER	VFD BYPASS	V/PH/HZ	HP (BHP)	OPER. WT. (LBS.)	REMARKS
SM-EF 1	GREENHECK CSW-33-AF	ROOF	ATRIUM EXHAUST	UTILITY SET	25,000	1.0	1,276	89	YES	YES	460/3/60	40 (39)	2,800	(1)(2)(3)(4)(5)(6)(7)
SM-EF 2	GREENHECK CSW-33-AF	ROOF	ATRIUM EXHAUST	UTILITY SET	25,000	1.0	1,276	89	YES	YES	460/3/60	40 (39)	2,800	(1)(2)(3)(4)(5)(6)(7)
SM-EF 3	GREENHECK CSW-33-AF	ROOF	ATRIUM EXHAUST	UTILITY SET	25,000	1.0	1,276	89	YES	YES	460/3/60	40 (39)	2,800	(1)(2)(3)(4)(5)(6)(7)
SM-EF 4	GREENHECK CSW-33-AF	ROOF	ATRIUM EXHAUST	UTILITY SET	25,000	1.0	1,276	89	YES	YES	460/3/60	40 (39)	2,800	(1)(2)(3)(4)(5)(6)(7)

REMARKS

(1) SMOKE CONTROL EXHAUST SYSTEM. SYSTEM DESIGNED TO OPERATE IN UNISON TO PROVIDE REQUIRED VENTILATION RATE. PROVIDE WITH MOTOR RATED VARIABLE FREQUENCY DRIVE (VFD) ON EMERGENCY POWER. REFER TO SMOKE CONTROL PLANS FOR OPERATION. VFD FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL PLANS FOR VFD LOCATION, REQUIREMENTS, AND SPECIFICATIONS.

(2) PROVIDE WITH VIBRATION ISOLATION SPRINGS WITH 1" DEFLECTION.

(3) UTILITY SET EXHAUST FAN MOUNTED ON FIELD FABRICATED EQUIPMENT PLATFORM. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

(4) EXHAUST FANS SHALL BE RATED FOR SMOKE CONTROL - HIGH TEMPERATURE EXHAUST SERVICE. FANS SHALL BE RATED FOR 150 DEG.F CONTINUOUS AIRFLOW AND A SHALL HAVE A MINIMUM MOTOR SERVICE FACTOR OF 1.15.

(5) CONTROLS BY OTHERS.

(6) FANS TO BE PROVIDED WITH 1.5 TIMES THE REQUIRED NUMBER OF BELTS, WITH A MINIMUM NUMBER OF BELTS BEING 2.

(7) DUCTS TO BE LEAK TESTED TO 1.5 TIMES THE MAXIMUM DESIGN PRESSURE.

SOUND ATTENUATOR SCHEDULE

MARK	MANUFACTURER & MODEL NO.	INLET SIZE	LENGTH	SERVICE	AIRFLOW (CFM)	MAX PRESSURE DROP (IN. WG.)	DYNAMIC INSERTION LOSS OCTAVE BAND (HZ) 1 (63)	2 (125)	3 (250)	4 (500)	5 (1K)	6 (2K)	7 (4K)	8 (8K)	APPROX. WEIGHT	REMARKS
ST 1	IAC UG-LFL	(1)	5'-0"	AHU-1A/1B (SUPPLY)	3,000	0.3	5	10	23	32	30	18	15	9	200	(1)
ST 2	IAC UG-LFL	(1)	5'-0"	AHU-2 (BUFFER SUPPLY)	13,000	0.3	5	10	23	32	30	18	15	9	400	(1)
ST 3	IAC UG-LFL	(1)	5'-0"	DOAS-1 (SUPPLY)	15,000	0.3	5	10	23	32	30	18	15	9	400	(1)
ST 4	IAC UG-LFL	(1)	5'-0"	DOAS-3 (SUPPLY)	15,000	0.3	5	10	23	32	30	18	15	9	400	(1)
ST 5	IAC UG-LFL	(1)	5'-0"	AC-1 (SUPPLY)	16,000	0.3	5	10	23	32	30	18	15	9	400	(1)
ST 6	IAC UG-LFL	(1)	5'-0"	AC-1 (RETURN)	16,000	0.3	5	10	23	32	30	18	15	9	400	(1)

REMARKS:

(1) CONTRACTOR SHALL PROVIDE SOUND ATTENUATOR SAME SIZE AS DUCT INLET. DUCT INLET SIZE PER PLANS AND APPROVED SHOP DRAWINGS.

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL SCHEDULES

Sheet No.
2M-003

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

VARIABLE AIR VOLUME TERMINAL SCHEDULE

MARK	MANUFACTURER & MODEL NO.	ROOMS SERVED	AIR HANDLER	INLET SIZE (DIA)	AIRFLOW (CFM)		REHEAT COIL										CONTROL POWER (E-POWER)	REMARKS
					MAX.	MIN.	HTG. CAP. (MBH)	MAX HTG AIRFLOW	FLOWRATE (GPM)	E.A.T. (DEG.F)	E.W.T. (DEG.F)	L.W.T. (DEG.F)	A.P.D. (IN WC)	W.P.D. (FT HD)	CONTROL VALVE MANUFACTURER	CONTROL VALVE MODEL	CONTROL VALVE MIN AUTH.		
VAV 1.1.1	TITUS DESV	ATRIUM UNDERGROUND	AC 1	24x16	2500	500	50	1250	3.6	55	140	110	0.4	1.0	VICTAULIC	TCM	0.25	NO	1 2
VAV 1.1.2	TITUS DESV	ATRIUM 1ST FLOOR	AC 1	24x16	3200	640	90	1600	9.9	55	140	110	0.4	1.0	VICTAULIC	TCM	0.25	NO	1 2
VAV 1.1.3	TITUS DESV	1ST FLOOR RECEPTION	AC 1	10	600	120	5	120	0.9	55	140	110	0.4	1.0	VICTAULIC	TCM	0.25	NO	1 2
VAV 1.2.1	TITUS DESV	ATRIUM 2ND FLOOR	AC 1	24x16	5300	1060	90	2650	9.2	55	140	110	0.4	1.0	VICTAULIC	TCM	0.25	NO	1 2
VAV 1.2.2	TITUS DESV	2ND FLOOR LOBBY	AC 1	10	600	120	10	200	1.3	55	140	110	0.4	1.0	VICTAULIC	7 MP	0.25	NO	1 2
VAV 1.3.1	TITUS DESV	ATRIUM 3RD FLOOR	AC 1	24x16	3200	640	90	1600	9.9	55	140	110	0.4	1.0	VICTAULIC	TCM	0.25	NO	1 2
VAV 1.3.2	TITUS DESV	3RD FLOOR LOBBY	AC 1	10	600	120	10	200	1.3	55	140	110	0.4	1.0	VICTAULIC	7 MP	0.25	NO	1 2

REMARKS:

1. PROVIDE WITH DDC CONTROLLER. REFER TO CONTROLS PLANS FOR OPERATION AND REQUIRED COMPONENTS.
2. BASIS OF DESIGN FOR SYSTEM HEATING HOT WATER LOOP DESIGNED WITH VICTAULIC COMBINATION BALANCING AND CONTROL VALVES. SYSTEM DESIGNED WITH A COMBINATION OF PRESSURE INDEPENDENT BALANCING VALVES (P.I.B.V.) AND MANUAL/AUTOFLOW BALANCING VALVES (A.B.V) AT THE TERMINALS AS WELL AS PRESSURE INDEPENDENT BALANCING VALVES AT SELECT LOOP BRANCHES TO ACHIEVE MINIMUM VALVE AUTHORITIES NO LESS THAN 0.25 AT EACH TERMINAL. CONTRACTOR AT THEIR OPTION MAY SUBSTITUTE THE PROPOSED MANUFACTURER BUT SHALL SUBMIT ENGINEERED VALVE SYSTEM PLANS INDICATING THE MINIMUM AUTHORITY AT EACH TERMINAL.

REHEAT COIL SCHEDULE

MARK	MANUFACTURER AND MODEL	SYSTEM SERVED	SERVICE	AIRFLOW (CFM)	MAX COIL FACE AIRFLOW VELOCITY (FPM)	MAX A.P.D. (IN. WC)	COIL FACE SIZE		E.A.T. (DEG. F)	MINIMUM CAPACITY (MBH)	HEATING HOT WATER							REMARKS
							WIDTH (IN.)	HEIGHT (IN.)			E.W.T. (DEG. F)	L.W.T. (DEG. F)	FLOW (GPM)	MAX COIL WPD (FT. WC)	2 CONTROL VALVE MANUFACTURER	2 CONTROL VALVE TYPE	2 CONTROL VALVE MIN AUTH.	
RH 1.1.1	RAE CORP	AHU 1A/B	WASH AREA 139	440	700	0.1	10	10	38	22.3	140	110	1.3	3.0	VICTAULIC	TCM	0.25	1 2
RH 1.1.2	RAE CORP	AHU 1A/B	133 VESTIBULE 143	980	700	0.1	16	14	38	67.3	140	110	2.8	3.0	VICTAULIC	TCM	0.25	1 2
RH 1.1.3	RAE CORP	AHU 1A/B	PROCEDURE 137	440	700	0.1	10	10	38	22.3	140	110	1.3	3.0	VICTAULIC	TCM	0.25	1 2
RH 1.1.4	RAE CORP	AHU 1A/B	HOLDING 135	400	700	0.1	10	10	38	20.3	140	110	1.2	3.0	VICTAULIC	7 MP	0.25	1 2
RH 1.1.5	RAE CORP	AHU 1A/B	129B	215	700	0.1	8	6	38	10.9	140	110	0.6	3.0	VICTAULIC	TCM	0.25	1 2
RH 1.1.6	RAE CORP	AHU 1A/B	129A	240	700	0.1	8	8	38	12.2	140	110	0.7	3.0	VICTAULIC	TCM	0.25	1 2
RH 1.1.7	RAE CORP	AHU 1A/B	HOLDING 131	285	700	0.1	8	8	38	12.3	140	110	0.8	3.0	VICTAULIC	TCM	0.25	1 2
RH 2.2.1	RAE CORP	AHU 2	BUFFER 206	2000	700	0.1	22	20	38	101.5	140	110	6.8	3.0	VICTAULIC	TCM	0.25	1 2
RH 2.2.2	RAE CORP	AHU 2	BUFFER 206	2000	700	0.1	22	20	38	101.5	140	110	6.8	3.0	VICTAULIC	TCM	0.25	1 2
RH 2.2.3	RAE CORP	AHU 2	BOTTLING EQUIP 252	1050	700	0.1	16	14	38	53.3	140	110	3.6	3.0	VICTAULIC	TCM	0.25	1 2
RH 2.2.4	RAE CORP	AHU 2	BOTTLING EQUIP 252	1050	700	0.1	16	14	38	53.3	140	110	3.6	3.0	VICTAULIC	TCM	0.25	1 2
RH 2.3.1	RAE CORP	AHU 2	BUFFER 359	2100	700	0.1	24	18	38	106.6	140	110	7.1	3.0	VICTAULIC	TCM	0.25	1 2
RH 2.3.2	RAE CORP	AHU 2	CRYO BSL2 367	500	700	0.1	12	10	38	25.4	140	110	1.7	3.0	VICTAULIC	TCM	0.25	1 2
RH 2.3.3	RAE CORP	AHU 2	CRYO BSL1 327	900	700	0.1	14	14	38	45.7	140	110	3.0	3.0	VICTAULIC	7 MP	0.25	1 2
RH 2.4.1	RAE CORP	AHU 2	BUFFER 471	2100	700	0.1	22	20	38	106.6	140	110	7.1	3.0	VICTAULIC	TCM	0.25	1 2
RH 2.4.2	RAE CORP	AHU 2	CRYO ROOM 419	400	700	0.1	10	8	38	20.3	140	110	1.4	3.0	VICTAULIC	TCM	0.25	1 2
RH 2.4.3	RAE CORP	AHU 2	IF/PD-QC 454	1200	700	0.1	16	16	38	60.9	140	110	4.1	3.0	VICTAULIC	TCM	0.25	1 2

REMARKS:

1. BASIS OF DESIGN FOR SYSTEM HEATING HOT WATER LOOP DESIGNED WITH VICTAULIC COMBINATION BALANCING AND CONTROL VALVES. SYSTEM DESIGNED WITH A COMBINATION OF PRESSURE INDEPENDENT BALANCING VALVES (P.I.B.V.) AND MANUAL/AUTOFLOW BALANCING VALVES (A.B.V) AT THE TERMINALS AS WELL AS PRESSURE INDEPENDENT BALANCING VALVES AT SELECT LOOP BRANCHES TO ACHIEVE MINIMUM VALVE AUTHORITIES NO LESS THAN 0.25 AT EACH TERMINAL. CONTRACTOR AT THEIR OPTION MAY SUBSTITUTE THE PROPOSED MANUFACTURER BUT SHALL SUBMIT ENGINEERED VALVE SYSTEM PLANS INDICATING THE MINIMUM AUTHORITY AT EACH TERMINAL.
2. REHEAT COIL MATERIAL. COPPER FIN/ COPPER TUBE

LABORATORY AIR VALVE SCHEDULE (SUPPLY)

MARK	MANUFACTURER AND MODEL	INLET SIZE	SUPPLY SYSTEM	SERVICE	AIRFLOW			TYPE OF CONTROL	CONTROL POWER E-POWER	REMARKS
					MAX. (CFM)	MIN (CFM)	MAX APD (IN WC)			
L-SAV 2.1	ACCUTROL -	12x36	AHU 2	2ND FLOOR BUFFER 219	4,000	0	0.3	CONSTANT	YES	1
L-SAV 2.2	ACCUTROL -	12x24	AHU 2	2ND FLOOR BOTTLING 252	2,100	0	0.3	CONSTANT	YES	1
L-SAV 3.1	ACCUTROL -	12x36	AHU 2	3RD FLOOR LABS	3,500	0	0.3	CONSTANT	YES	1
L-SAV 4.1	ACCUTROL -	12x36	AHU 2	4TH FLOOR LABS	3,700	0	0.3	CONSTANT	YES	1

REMARKS:

1. PROVIDE WITH DDC CONTROLLER. REFER TO CONTROLS PLANS FOR OPERATION AND REQUIRED COMPONENTS.

BUILDING OSA AIR VALVE SCHEDULE

MARK	MANUFACTURER AND MODEL	INLET SIZE	SUPPLY SYSTEM	SERVICE	AIRFLOW			TYPE OF CONTROL	CONTROL POWER E-POWER	REMARKS
					MAX. (CFM)	MIN (CFM)	MAX APD (IN WC)			
B-SAV 1.1	ACCUTROL	12x48	DOAS 1	1ST FLOOR EAST WING OSA	1520	0	0.3	CONSTANT	0.25	1
B-SAV 1.2	ACCUTROL	12x36	DOAS 2	1ST FLOOR WEST WING OSA	3680	0	0.3	CONSTANT	0.25	1
B-SAV 2.1	ACCUTROL	12" 2.2	DOAS 1	2ND FLOOR EAST WING OSA	880	0	0.3	CONSTANT	0.25	1
B-SAV 2.2	ACCUTROL	12" 2.2	DOAS 1	2ND FLOOR EAST WING OSA	1140	0	0.3	CONSTANT	0.25	1
B-SAV 2.3	ACCUTROL	12x18	DOAS 2	2ND FLOOR WEST WING OSA	1780	0	0.3	CONSTANT	0.25	1
B-SAV 3.1	ACCUTROL	12" 2.2	DOAS 1	3RD FLOOR EAST WING OSA	1170	0	0.3	CONSTANT	0.25	1
B-SAV 3.2	ACCUTROL	14"	DOAS 1	3RD FLOOR EAST WING OSA	1445	0	0.3	CONSTANT	0.25	1
B-SAV 3.3	ACCUTROL	10"	DOAS 2	3RD FLOOR WEST WING OSA	700	0	0.3	CONSTANT	0.25	1
B-SAV 3.4	ACCUTROL	10"	DOAS 2	3RD FLOOR WEST WING OSA	775	0	0.3	CONSTANT	0.25	1
B-SAV 4.1	ACCUTROL	10"	DOAS 1	4TH FLOOR EAST WING OSA	915	0	0.3	CONSTANT	0.25	1
B-SAV 4.2	ACCUTROL	12"	DOAS 1	4TH FLOOR EAST WING OSA	1245	0	0.3	CONSTANT	0.25	1
B-SAV 4.3	ACCUTROL	8"	DOAS 2	4TH FLOOR WEST WING OSA	485	0	0.3	CONSTANT	0.25	1
B-SAV 4.4	ACCUTROL	12"	DOAS 2	4TH FLOOR WEST WING OSA	1235	0	0.3	CONSTANT	0.25	1

REMARKS:

1. PROVIDE WITH DDC CONTROLLER. REFER TO CONTROLS PLANS FOR OPERATION AND REQUIRED COMPONENTS.

BUILDING RELIEF AIR VALVE SCHEDULE

MARK	MANUFACTURER AND MODEL	INLET SIZE	SUPPLY SYSTEM	SERVICE	AIRFLOW			TYPE OF CONTROL	CONTROL POWER E-POWER	REMARKS
					MAX. (CFM)	MIN (CFM)	MAX APD (IN WC)			
B-EAV 1.1	ACCUTROL	12x48	DOAS 1	1ST FLOOR EAST WING OSA	1520	0	0.3	CONSTANT	NO	1
B-EAV 1.2	ACCUTROL	12x36	DOAS 2	1ST FLOOR WEST WING OSA	4605	0	0.3	CONSTANT	NO	1
B-EAV 2.1	ACCUTROL	8" 2.2	DOAS 1	2ND FLOOR EAST WING OSA	385	0	0.3	CONSTANT	NO	1
B-EAV 2.2	ACCUTROL	12x18	DOAS 1	2ND FLOOR EAST WING OSA	1860	0	0.3	CONSTANT	NO	1
B-EAV 2.3	ACCUTROL	14" 2.2	DOAS 2	2ND FLOOR WEST WING OSA	1300	0	0.3	CONSTANT	NO	1
B-EAV 3.1	ACCUTROL	10"	DOAS 1	3RD FLOOR EAST WING OSA	675	0	0.3	CONSTANT	NO	1
B-EAV 3.2	ACCUTROL	14"	DOAS 1	3RD FLOOR EAST WING OSA	1340	0	0.3	CONSTANT	NO	1
B-EAV 3.3	ACCUTROL	8"	DOAS 2	3RD FLOOR WEST WING OSA	350	0	0.3	CONSTANT	NO	1
B-EAV 3.4	ACCUTROL	12"	DOAS 2	3RD FLOOR WEST WING OSA	1125	0	0.3	CONSTANT	NO	1
B-EAV 4.1	ACCUTROL	10"	DOAS 1	4TH FLOOR EAST WING OSA	640	0	0.3	CONSTANT	NO	1
B-EAV 4.2	ACCUTROL	12x18	DOAS 1	4TH FLOOR EAST WING OSA	1795	0	0.3	CONSTANT	NO	1
B-EAV 4.3	ACCUTROL	8"	DOAS 2	4TH FLOOR WEST WING OSA	495	0	0.3	CONSTANT	NO	1
B-EAV 4.4	ACCUTROL	10" 2.2	DOAS 2	4TH FLOOR WEST WING OSA	685	0	0.3	CONSTANT	NO	1

REMARKS:

1. PROVIDE WITH DDC CONTROLLER. REFER TO CONTROLS PLANS FOR OPERATION AND REQUIRED COMPONENTS.

LABORATORY AIR VALVE SCHEDULE (EXHUAST)

MARK	MANUFACTURER	INLET SIZE	EXHUAST SYSTEM	SERVICE	AIRFLOW			TYPE OF CONTROL	CONTROL POWER E-POWER	REMARKS
					MAX. (CFM)	MIN (CFM)	MAX APD (IN WC)			
L-EAV 2.1	ACCUTROL	12x36	EF 2	2ND FLOOR BUFFER 219	4,050	0	0.3	CONSTANT	YES	1
L-EAV 2.2	ACCUTROL	12x24	EF 2	2ND FLOOR BOTTLING 252	2,200	0	0.3	CONSTANT	YES	1
L-EAV 3.1	ACCUTROL	12x48	EF 2	3RD FLOOR LABS	4,450	0	0.3	CONSTANT	YES	1
L-EAV 4.1	ACCUTROL	12x36	EF 2	4TH FLOOR LABS	3,850	0	0.3	CONSTANT	YES	1

REMARKS:

1. PROVIDE WITH DDC CONTROLLER. REFER TO CONTROLS PLANS FOR OPERATION AND REQUIRED COMPONENTS.

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VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL SCHEDULES

Sheet No.
2M-004

2.3

FLUE GAS EXTRACTION FAN SCHEDULE

MARK	MANUFACTURER & MODEL NO.	TYPE	EQUIPMENT SERVED	LOCATION	AIRFLOW (CFM)	RPM	MAX TEMP (DEG F)	ELECTRICAL						OPER. WT. (LBS.)	REMARKS
								MOTOR		VFD		V / PH / HZ	EMERGENCY POWER		
								QTY	HP	QTY	HP				
EXF 1	TJERNLUND VSAD8-460A	CENT. UPBLAST	WH 1, WH 2	ROOF	150	2440	500	1	1/3	1	1/2	460/3/60	YES	50	1 2 3 4

REMARKS:

1. PROVIDE A COMPLETE SYSTEM WITH ALL REQUIRED ACCESORIES, TJERNLUND OR EQUAL. PROVIDE WITH MANUFACTURER ROOF MOUNTING KIT, VARIABLE SPEED MOTOR AND DRIVE, PRESSURE SENSOR & CONTROLLER, PRESSURE TRANSDUCER, DRAFT DAMPER, AND BAROMETRIC DAMPER.
2. PROVIDE WITH NEUTRALIZATION KIT.
3. CONTRACTOR SHALL COORDINATE APPROVED BOILER SUBMITTALS WITH FINAL GAS EXTRACTION FAN SELECTION.
4. CONTRACTOR SHALL COORDINATE FINAL VENT ROUTING WITH EXTRACTION FAN MANUFACTURER AND INSTALL PER MANUFACTURER IOM.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	MANUF. & MODEL	SERVICE	NECK SIZE	AIRFLOW (CFM)	FACE SIZE	CEILING TYPE	TYPE	FINISH	REMARKS
A	TITUS MCD	SUPPLY	6x6 8x8 10x10 12x12 14x14	0 - 100 101 - 200 201 - 375 376 - 600 601 - 750	24x24	LAY-IN	MODULAR CORE DIFFUSER	OFF-WHITE	4-WAY THROW UNLESS NOTED OTHERWISE. PROVIDE WITH SQUARE TO ROUND FLEXIBLE DUCT ADAPTER WHEN CONNECTED TO ROUND DUCTWORK.
A1	AJ MFG SSMLCD	SUPPLY	6x6 8x8 10x10 12x12 14x14	0 - 100 101 - 200 201 - 375 376 - 600 601 - 750	24x24	GYP. BD.	STAINLESS STEEL MODULAR CORE DIFFUSER	OFF-WHITE	ONLY. 4-WAY THROW UNLESS NOTED OTHERWISE. PROVIDE WITH SQUARE TO ROUND FLEXIBLE DUCT ADAPTER WHEN CONNECTED TO ROUND DUCTWORK.
B	TITUS PAR	RETURN/ EXHAUST	SEE REMARKS		24x24	LAY-IN T-BAR	PERFORATED FACE CEILING GRILLE	OFF-WHITE	NECK SIZE TO MATCH INLET DUCT SIZE UNLESS NOTED OTHERWISE.
C	TITUS MCD	SUPPLY	6x6 8x8 10x10 12x12 14x14	0 - 100 101 - 200 201 - 375 376 - 600 601 - 750	NECK SIZE PLUS 5"	GYP. BD.	SURFACE MTD. SUPPLY MODULAR CORE DIFFUSER	OFF-WHITE	4-WAY THROW UNLESS NOTED OTHERWISE. PROVIDE WITH SQUARE TO ROUND FLEXIBLE DUCT ADAPTER WHEN CONNECTED TO ROUND DUCTWORK.
D	TITUS 300RL	SUPPLY	MATCH DUCT INLET SIZE	AS NOTED ON PLANS	VARIES	GYP. BD.	SURFACE MTD. SUPPLY REGISTER	OFF-WHITE	LOUVERED FACE, ADJUSTABLE DOUBLE DEFLECTION 3/4" SPACED BLADES.
D1	TITUS 350FLF-2	RETURN/ EXHAUST	MATCH DUCT INLET SIZE	AS NOTED ON PLANS	VARIES	GYP. BD.	SURFACE MTD. RETURN/ EXHAUST REGISTER	OFF-WHITE	ONLY. LOUVERED FACE WITH ALUMINUM BODY AND 3/4" SPACED BLADES. PROVIDE WITH 2" FILTER RACK. WILL HINGED FILTER ACCESS. CONTRACTOR SHALL SUPPLY 35%% FILTERS.
E	TITUS 350RL	RETURN/ EXHAUST	MATCH DUCT INLET SIZE	AS NOTED ON PLANS	VARIES	GYP. BD.	SURFACE MTD. RETURN/ EXHAUST REGISTER	OFF-WHITE	LOUVERED FACE, FIXED 35 DEGREE DEFLECTION 3/4" SPACED BLADE RETURN REGISTER.
F	TITUS FL-20	SUPPLY	MATCH DUCT INLET SIZE	AS NOTED ON PLANS	VARIES	GYP. BD.	LINEAR SLOT DIFFUSER 1-SLOT AT 2" WIDE	OFF-WHITE	PROVIDE WITH CONCEALED FRAME AND LINED PLENUM. PROVIDE JET-THROW FOR SIDEWALL MOUNTED. PROVIDE HIGH-THROW FOR CEILING MOUNTED.
G	TITUS FL-20	RETURN	MATCH DUCT INLET SIZE	AS NOTED ON PLANS	VARIES	GYP. BD.	LINEAR SLOT DIFFUSER 1-SLOT AT 2" WIDE	OFF-WHITE	PROVIDE WITH CONCEALED FRAME AND LINED PLENUM
H	TITUS TMRA	SUPPLY	6" 8" 10" 12" 14"	0 - 149 150 - 199 200 - 324 325 - 425 425 - 550	VARIES	DUCT MTD.	DUCT MTD. SUPPLY ROUND DIFFUSER	OFF-WHITE	ADJUSTABLE HORIZONTAL DISCHARGE. NC LEVELS TO BE 25 AND BELOW.
I	TITUS CT-481	SUPPLY	MATCH DUCT INLET SIZE	AS NOTED ON PLANS	4'x6"	FLOOR	LINEAR BAR DIFFUSER	STEEL	-
J	AIR CONCEPTS ANC-RR-12-1	SUPPLY	12"	400-1000	NECK SIZE PLUS 2"	DUCT. MTD.	DUCT MTD. SUPPLY NOZZLE DIFFUSER	STEEL	-
K	TITUS RADIATEC	SUPPLY	10" / 12"	400-1000	24x48	LAY-IN T-BAR	DOME FACE RADIAL DIFFUSER	OFF-WHITE	-

DIFFERENTIAL PRESSURE CONTROL VALVE

MARK	MANUFACTURER	MODEL NO.	FLOWRATE (GPM)	DP (FT)	LOCATION	REMARKS
DPCV 1.1	VICTAULIC	793	8.7	11.5	LEVEL 1	
DPCV 2.1	VICTAULIC	793	20.8	13.0	LEVEL 2	
DPCV 3.1	VICTAULIC	793	8.8	11.3	LEVEL 3	
DPCV 3.2	VICTAULIC	793	36.1	16.8	LEVEL 3	
DPCV 4.1	VICTAULIC	793	18.9	13.4	LEVEL 4	

FAN POWERED TERMINAL HEPA FILTER SCHEDULE

MARK	MANUFACTURER & MODEL NO.	FILTER TYPE	SIZE	FILTER DEPTH	EFFICIENCY @ 0.3 m PARTICLES	ELECTRICAL			OPER. WT. (LBS.)	REMARKS
						V/PH/HZ	STARTUP AMPS	CONT. AMPS		
HF 1	FLANDERS FM2-LE 3010337-002	HEPA	24"x48"	4"	99.99%	120/1/60	2.4	2.0	75	1

REMARKS:

1. PROVIDE WITH BACNET INTERFACE CARD FOR INTEGRATION INTO BMS

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PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL SCHEDULES

Sheet No.
2M-005

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (1ST FLOOR-EAST)

VRV OUTDOOR UNITS (VRV-2)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP.		SYSTEM HTG CAP.		SYSTEM EFFICIENCY			REFRIG	OUTDOOR MODULE								
		SYSTEM (TONS)	CONNECTED (TONS)	SYSTEM (MBH)	CONNECTED (MBH)	CLG. E.E.R.	CLG. I.E.E.R.	HTG. H.S.P.F.		REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
VRV-2	DAIKIN REYQ312	26	34	312	454	10.3	18.1	3.2	R-410A	77.4	VRV 2A	DAIKIN REYQ144	12	460/3/60	40	31.9	800	1 2 3 5 6 9
											VRV 2B	DAIKIN REYQ168	14	460/3/60	40	36.1	800	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-2)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
BS 2.01	DAIKIN BS6Q54TVJ	6	R410A	208/1/60	15	0.6	75	5
BS 2.02	DAIKIN BS6Q54TVJ	6	R410A	208/1/60	15	0.6	75	5

VRV FAN COIL UNITS (VRV-2)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS			FILTER			ELECTRICAL DATA			OPER. WT. (LBS)	REMARKS
							TOTAL COOLING CAPACITY (MBH)	SENS. COOLING CAPACITY (MBH)	HEATING CAP (MBH)	EFF.	INITIAL RES.	FINAL RES.	V/Ph/Hz	MOCP	MCA		
FC 2.01	DAIKIN FXMQ30PBVJU	FACILITIES SHOP AND OFFICES 151 FAC OFFICE 149	2.5	1100	250	0.40	23.9	20.2	34.0	MERV-8	0.29	0.60	208/1/60	15.00	2.80	125	4 7
FC 2.02	DAIKIN FXMQ36PBVJU	MAIN UTILITY 122	3.0	1150	90	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7
FC 2.03	DAIKIN FXMQ18PBVJU	RECEIVING OFFICE 132 WAREHOUSE 102	1.5	650	50	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7
FC 2.04	DAIKIN FXMQ36PBVJU	WAREHOUSE 102	3.0	1150	220	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7
FC 2.05	DAIKIN FXMQ36PBVJU	WAREHOUSE 102	3.0	1150	365	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7
FC 2.06	DAIKIN FXMQ36PBVJU	WAREHOUSE 102	3.0	1150	420	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 2.07	DAIKIN FXMQ36PBVJU	WAREHOUSE 102	3.0	1150	355	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 2.08	DAIKIN FXMQ36PBVJU	WAREHOUSE 102	3.0	1150	345	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 2.09	DAIKIN FXMQ36PBVJU	WAREHOUSE 102	3.0	1150	120	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 2.11	DAIKIN FXMQ36PBVJU	WAREHOUSE 102	3.0	1150	165	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 2.12	DAIKIN FXMQ36PBVJU	WAREHOUSE 102	3.0	1150	150	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 2.13	DAIKIN FXMQ36PBVJU	MEZZANINE STORAGE 159	3.0	1150	135	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (IST FLOOR- EAST)

VRV OUTDOOR UNITS (VRV-1)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP.		SYSTEM HTG CAP.		SYSTEM EFFICIENCY			REFRIG	OUTDOOR MODULE							
		SYSTEM (TONS)	CONNECTED (TONS)	SYSTEM (MBH)	CONNECTED (MBH)	CLG. E.E.R.	CLG. I.E.E.R.	HTG. C.O.P.		REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
VRV-1	DAIKIN REYQ408	34.0	31.5	415	435	10.5	16.5	3.2	R-410A	51.6	VRV 1A	REYQ168	14	460/3/60	40	36.1	800	1 2 3 5 6 9
											VRV 1B	REYQ144	12	460/3/60	40	31.9	800	1 2 3 5 6 9
											VRV 1C	REYQ96	8	460/3/60	25	21.1	725	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-1)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
BS 1.01	DAIKIN BS6Q54TVJ	6	R410A	208/1/60	15	0.6	75	5
BS 1.02	DAIKIN BS8Q54TVJ	8	R410A	208/1/60	15	0.8	75	5

VRV FAN COIL UNITS (VRV-1)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS			FILTER			ELECTRICAL DATA			OPER. WT. (LBS)	REMARKS
							TOTAL COOLING CAPACITY (MBH)	SENS. COOLING CAPACITY (MBH)	HEATING CAP (MBH)	EFF.	INITIAL RES.	FINAL RES.	V/Ph/Hz	MOCP	MCA		
FC 1.01	DAIKIN FXMQ54PBVJU	MULTIPURPOSE ROOM 110C (INT)	4.5	1,625	1045	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 1.02	DAIKIN FXMQ54PBVJU	MULTIPURPOSE ROOM 110C (EXT)	4.5	1,625	1000	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 1.03	DAIKIN FXMQ30PBVJU	MULTIPURPOSE ROOM 110B (INT)	2.5	1,100	505	0.40	23.9	20.2	34.0	MERV-8	0.29	0.60	208/1/60	15.00	2.80	125	4 7 8
FC 1.04	DAIKIN FXMQ48PBVJU	MULTIPURPOSE ROOM 110B (EXT)	4.0	1,400	505	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 1.05	DAIKIN FXMQ24PBVJU	MULTIPURPOSE ROOM 110A (INT)	2.0	700	400	0.40	19.2	16.1	27.0	MERV-8	0.29	0.60	208/1/60	15.00	1.80	100	4 7 8
FC 1.06	DAIKIN FXMQ36PBVJU	MULTIPURPOSE ROOM 110A (EXT)	3.0	1,150	345	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 1.07	DAIKIN FXMQ54PBVJU	SERVERY 111 DISH DROP OFF 109	4.5	1,625	155	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 1.08	DAIKIN FXMQ24PBVJU	WASH 112	2.0	700	110	0.40	19.2	16.1	27.0	MERV-8	0.29	0.60	208/1/60	15.00	1.80	100	4 7 8
FC 1.09	DAIKIN FXMQ36PBVJU	RESTROOMS 7 CORRIDOR	3.0	1,150	430	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 1.10	DAIKIN FXMQ18PBVJU	STORAGE 115&113	1.5	650	195	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7

VRV NOTES

1. BASIS OF DESIGN VRV SYSTEM IS A DAIKIN HEAT RECOVERY SYSTEM. CONTRACTOR PROPOSED ALTERNATE VRV MANUFACTURERS SHALL BE SUBMITTED EQUIVALENT CAPABILITIES.
2. BASIS OF DESIGN CONTROL SYSTEM IS A DAIKIN SMART SYSTEM WITH A BACNET GATEWAY FOR INTEGRATION INTO THE BUILDING MANAGEMENT SYSTEM. CONTRACTOR PROPOSED ALTERNATE VRV MANUFACTURERS SHALL BE SUBMITTED WITH CONTROLS SYSTEMS WITH EQUIVALENT CAPABILITIES.
3. VRV SYSTEM SEQUENCE OF OPERATION SHALL BE DEFERRED TO THE INSTALLING VRV MANUFACTURER.
4. FANCOIL ROOM CONTROLS SHALL INCLUDE THE DAIKIN "SIMPLE" DIGITAL THERMOSTAT WITH DIGITAL DISPLAYS
5. VRV SYSTEM SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES FOR "SHUT OFF DUTY" AT ALL REFRIGERANT CONNECTION POINTS. INCLUDING BUT NOT LIMITED TO VRV OUTDOOR MODULES, HR MODULE PORTS AND FAN COIL CONNECTIONS.
6. PROVIDE COILS EXPOSED TO HIGH LEVELS OF COASTAL AIR WITH CU/CU COILS WITH NO ADDITIONAL COATINGS OR IF AL/CU COILS ARE INCLUDED PROVIDE WITH A COASTAL PROTECTION COATING (MINIMUM OF 2,000 HR SALT SPRAY TEST). EQUIPMENT INCLUDES BUT IS NOT LIMITED TO OUTDOOR HEAT RECOVERY MODULES AND DOAS UNITS.
7. DUCTLESS SYSTEMS WHICH REQUIRE SMOKE DETECTORS PER CMC 609 SHALL BE INTEGRATED WITH AREA DETECTORS LOCATED WITHIN THE SPACE. REFER TO FIRE PROTECTION PLANS FOR DETAILS.
8. PROVIDE SMOKE DETECTOR IN SUPPLY AIR DUCT AND INTERLOCK WITH UNIT CONTROLS AND FIRE ALARM SYSTEM PER CMC 609.
9. OUTDOOR MODULES TO BE PROVIDED WITH BASE REFRIGERANT CHARGE FROM VRV MANUFACTUTURER. FOR PRICING PURPOSES THE INSTALLING CONTRACTOR SHALL ASSUME 100% OF THE BASE CHARGE SHALL BE REQUIRED TO BE ADDED TO THE SYSTEM. FINAL QUANITIES TO BE DETERMINED DURING SUBMITTAL AND SHOP DRAWING PROCESS.

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL SCHEDULES

Sheet No.
2M-006

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Link to Sheet Index - 2G-001

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VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (2ND FLOOR-WEST)

VRV OUTDOOR UNITS (VRV-4)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP. (TONS)	SYSTEM CLG CAP. CONNECTED (TONS)	SYSTEM HTG CAP. (MBH)	SYSTEM HTG CAP. CONNECTED (MBH)	SYSTEM EFFICIENCY CLG. E.E.R.	SYSTEM EFFICIENCY CLG. I.E.E.R.	SYSTEM EFFICIENCY HTG. C.O.P.	REFRIG	OUTDOOR MODULE REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
VRV-4	DAIKIN REYQ192	16.0	20.5	200	274.5	12.5	21.1	3.67	R-410A	47.6	VRV 4A	REYQ120	10	460/3/60	25	21.1	725	1 2 3 5 6 9
											VRV 4B	REYQ72	6	460/3/60	20	15.2	550	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-4)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
BS 4.01	DAIKIN BS4Q54TVJ	4	R410A	208/1/60	15	0.4	50	5
BS 4.02	DAIKIN BS6Q54TVJ	6	R410A	208/1/60	15	0.6	75	5

VRV FAN COIL UNITS (VRV-4)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS TOTAL COOLING CAPACITY (MBH)	COIL CAPACITIES - AHRI CONDITIONS SENS. COOLING CAPACITY (MBH)	COIL CAPACITIES - AHRI CONDITIONS HEATING CAP (MBH)	FILTER EFF.	FILTER INITIAL RES.	FILTER FINAL RES.	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
FC 4.01	DAIKIN FXMQ48PBVJU	PURIF. LAB 217 N	4.0	1,400	110	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 4.02	DAIKIN FXMQ48PBVJU	PURIF. LAB 217 MID	4.0	1,400	115	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 4.03	DAIKIN FXMQ48PBVJU	PURIF. LAB 217 MID	4.0	1,400	110	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 4.04	DAIKIN FXMQ48PBVJU	PURIF. LAB 217 S	4.0	1,400	115	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 4.05	DAIKIN FXMQ24PBVJU	OPEN OFFICE 211 WELLNESS 208	2.0	700	225	0.40	19.2	16.1	27.0	MERV-8	0.29	0.60	208/1/60	15.00	1.80	100	4 7 8
FC 4.06	DAIKIN FXMQ12PBVJU	TELE 225 FLEX 215	1.0	450	145	0.40	9.6	8.2	13.5	MERV-8	0.29	0.60	208/1/60	15.00	1.40	75	4 7
FC 4.07	DAIKIN FXMQ18PBVJU	COMM 213	1.5	650	30	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7

2.2

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (2ND FLOOR-EAST)

VRV OUTDOOR UNITS (VRV-6)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP. (TONS)	SYSTEM CLG CAP. CONNECTED (TONS)	SYSTEM HTG CAP. (MBH)	SYSTEM HTG CAP. CONNECTED (MBH)	SYSTEM EFFICIENCY CLG. E.E.R.	SYSTEM EFFICIENCY CLG. I.E.E.R.	SYSTEM EFFICIENCY HTG. C.O.P.	REFRIG	OUTDOOR MODULE REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
VRV-6	DAIKIN REYQ192	16	14.5	200	195.5	12.5	21.1	3.67	R-410A	47.6	VRV 6A	REYQ72	6	460/3/60	20	15.2	550	1 2 3 5 6 9
											VRV 6B	REYQ120	10	460/3/60	25	21.1	725	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-6)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
BS 6.01	DAIKIN BS6Q54TVJ	6	R410A	208/1/60	15	0.6	75	5

VRV FAN COIL UNITS (VRV-6)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS TOTAL COOLING CAPACITY (MBH)	COIL CAPACITIES - AHRI CONDITIONS SENS. COOLING CAPACITY (MBH)	COIL CAPACITIES - AHRI CONDITIONS HEATING CAP (MBH)	FILTER EFF.	FILTER INITIAL RES.	FILTER FINAL RES.	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
FC 6.01	DAIKIN FXMQ48PBVJU	PROCESS DEV 254	4.0	1,400	90	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 6.02	DAIKIN FXMQ48PBVJU	PROCESS DEV 254	4.0	1,400	90	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 6.03	DAIKIN FXMQ30PBVJU	OPEN OFFICE 256	2.5	1,100	275	0.40	23.9	20.2	34.0	MERV-8	0.29	0.60	208/1/60	15.00	2.80	125	4 7 8
FC 6.04	DAIKIN FXMQ12PBVJU	COMM ROOM 260	1.0	450	100	0.40	9.6	8.2	13.5	MERV-8	0.29	0.60	208/1/60	15.00	1.40	75	4 7
FC 6.05	DAIKIN FXMQ18PBVJU	FLEX 262 PHONE 264 FLEX 266	1.5	650	45	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7
FC 6.06	DAIKIN FXMQ18PBVJU	CONF ROOM	1.5	650	100	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (2ND FLOOR-WEST)

VRV OUTDOOR UNITS (VRV-3)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP. (TONS)	SYSTEM CLG CAP. CONNECTED (TONS)	SYSTEM HTG CAP. (MBH)	SYSTEM HTG CAP. CONNECTED (MBH)	SYSTEM EFFICIENCY CLG. E.E.R.	SYSTEM EFFICIENCY CLG. I.E.E.R.	SYSTEM EFFICIENCY HTG. C.O.P.	REFRIG	OUTDOOR MODULE REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
VRV-3	DAIKIN REYQ192	16.0	19.0	200	254	12.5	21.1	3.67	R-410A	47.6	VRV 3A	REYQ120	10	460/3/60	25	21.1	725	1 2 3 5 6 9
											VRV 3B	REYQ72	6	460/3/60	20	15.2	550	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-3)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
BS 3.01	DAIKIN BS8Q54TVJ	8	R410A	208/1/60	15	0.8	75	5

VRV FAN COIL UNITS (VRV-3)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS TOTAL COOLING CAPACITY (MBH)	COIL CAPACITIES - AHRI CONDITIONS SENS. COOLING CAPACITY (MBH)	COIL CAPACITIES - AHRI CONDITIONS HEATING CAP (MBH)	FILTER EFF.	FILTER INITIAL RES.	FILTER FINAL RES.	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
FC 3.01	DAIKIN FXMQ36PBVJU	ELEV LOBBY 204	3.0	1,150	225	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 3.02	DAIKIN FXMQ54PBVJU	BOTTLING LAB 212 N	4.5	1,625	145	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 3.03	DAIKIN FXMQ54PBVJU	BOTTLING LAB 212 MID	4.5	1,625	140	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 3.04	DAIKIN FXMQ54PBVJU	BOTTLING LAB 212 S	4.5	1,625	140	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 3.05	DAIKIN FXMQ30PBVJU	BREAK ROOM 210	2.5	1,100	280	0.40	23.9	20.2	34.0	MERV-8	0.29	0.60	208/1/60	15.00	2.80	125	4 7

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (2ND FLOOR-EAST)

VRV OUTDOOR UNITS (VRV-5)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP. (TONS)	SYSTEM CLG CAP. CONNECTED (TONS)	SYSTEM HTG CAP. (MBH)	SYSTEM HTG CAP. CONNECTED (MBH)	SYSTEM EFFICIENCY CLG. E.E.R.	SYSTEM EFFICIENCY CLG. I.E.E.R.	SYSTEM EFFICIENCY HTG. C.O.P.	REFRIG	OUTDOOR MODULE REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
VRV-5	DAIKIN REYQ264	22	26	276	435	10.5	18.6	3.22	R-410A	51.6	VRV 5A	REYQ120	10	460/3/60	25	21.1	725	1 2 3 5 6 9
											VRV 5B	REYQ144	12	460/3/60	40	31.9	800	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-5)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
BS 5.01	DAIKIN BS6Q54TVJ	6	R410A	208/1/60	15	0.6	75	5
BS 5.02	DAIKIN BS6Q54TVJ	6	R410A	208/1/60	15	0.6	75	5

VRV FAN COIL UNITS (VRV-5)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS TOTAL COOLING CAPACITY (MBH)	COIL CAPACITIES - AHRI CONDITIONS SENS. COOLING CAPACITY (MBH)	COIL CAPACITIES - AHRI CONDITIONS HEATING CAP (MBH)	FILTER EFF.	FILTER INITIAL RES.	FILTER FINAL RES.	ELECTRICAL DATA V/Ph/Hz	ELECTRICAL DATA MOCP	ELECTRICAL DATA MCA	OPER. WT. (LBS)	REMARKS
FC 5.01	DAIKIN FXMQ54PBVJU	PC BULK STORAGE 221	4.5	1,625	95	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7
FC 5.02	DAIKIN FXMQ30PBVJU	VESTIBULE 251 STORAGE 265 STOCK ROOM 250 RESTROOMS	2.5	1,100	455	0.40	23.9	20.2	34.0	MERV-8	0.29	0.60	208/1/60	15.00	2.80	125	4 7 8
FC 5.03	DAIKIN FXMQ54PBVJU	CONJ. LAB 261	4.5	1,625	140	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 5.04	DAIKIN FXMQ54PBVJU	CONJ. LAB 261	4.5	1,625	140	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 5.05	DAIKIN FXMQ54PBVJU	CONJ. LAB 261	4.5	1,625	130	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 5.06	DAIKIN FXMQ48PBVJU	BV CONJ. LAB 263	4.0	1,400	120	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 5.07	DAIKIN FXMQ48PBVJU	BV CONJ. LAB 263	4.0	1,400	130	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 5.08	DAIKIN FXMQ54PBVJU	BV CONJ. LAB 263	4.5	1,625	120	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8

VRV NOTES

1. BASIS OF DESIGN VRV SYSTEM IS A DAIKIN HEAT RECOVERY SYSTEM. CONTRACTOR PROPOSED ALTERNATE VRV MANUFACTURERS SHALL BE SUBMITTED EQUIVALENT CAPABILITIES.
2. BASIS OF DESIGN CONTROL SYSTEM IS A DAIKIN SMART SYSTEM WITH A BACNET GATEWAY FOR INTEGRATION INTO THE BUILDING MANAGEMENT SYSTEM. CONTRACTOR PROPOSED ALTERNATE VRV MANUFACTURERS SHALL BE SUBMITTED WITH CONTROLS SYSTEMS WITH EQUIVALENT CAPABILITIES.
3. VRV SYSTEM SEQUENCE OF OPERATION SHALL BE DEFERRED TO THE INSTALLING VRV MANUFACTURER.
4. FANCOIL ROOM CONTROLS SHALL INCLUDE THE DAIKIN "SIMPLE" DIGITAL THERMOSTAT WITH DIGITAL DISPLAYS
5. VRV SYSTEM SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES FOR "SHUT OFF DUTY" AT ALL REFRIGERANT CONNECTION POINTS. INCLUDING BUT NOT LIMITED TO VRV OUTDOOR MODULES, HR MODULE PORTS AND FAN COIL CONNECTIONS.
6. PROVIDE COILS EXPOSED TO HIGH LEVELS OF COASTAL AIR WITH CU/CU COILS WITH NO ADDITIONAL COATINGS OR IF AL/CU COILS ARE INCLUDED PROVIDE WITH A COASTAL PROTECTION COATING (MINIMUM OF 2,000 HR SALT SPRAY TEST). EQUIPMENT INCLUDES BUT IS NOT LIMITED TO OUTDOOR HEAT RECOVERY MODULES AND DOAS UNITS.
7. DUCTLESS SYSTEMS WHICH REQUIRE SMOKE DETECTORS PER CMC 609 SHALL BE INTEGRATED WITH AREA DETECTORS LOCATED WITHIN THE SPACE. REFER TO FIRE PROTECTION PLANS FOR DETAILS.
8. PROVIDE SMOKE DETECTOR IN SUPPLY AIR DUCT AND INTERLOCK WITH UNIT CONTROLS AND FIRE ALARM SYSTEM PER CMC 609.
9. OUTDOOR MODULES TO BE PROVIDED WITH BASE REFRIGERANT CHARGE FROM VRV MANUFACTUTURER. FOR PRICING PURPOSES THE INSTALLING CONTRACTOR SHALL ASSUME 100% OF THE BASE CHARGE SHALL BE REQUIRED TO BE ADDED TO THE SYSTEM. FINAL QUANITIES TO BE DETERMINED DURING SUBMITTAL AND SHOP DRAWING PROCESS.

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL SCHEDULES

Sheet No.
2M-007

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (3RD FLOOR-WEST)

VRV OUTDOOR UNITS (VRV-8)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP.		SYSTEM HTG CAP.		SYSTEM EFFICIENCY			REFRIG	OUTDOOR MODULE								
		SYSTEM (TONS)	CONNECTED (TONS)	SYSTEM (MBH)	CONNECTED (MBH)	CLG. E.E.R.	CLG. I.E.E.R.	HTG. C.O.P.		REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
VRV-8	DAIKIN REYQ312	26	41	312	400	10.3	18.1	3.2	R-410A	51.6	VRV 8A	REYQ144	12	460/3/60	40	31.9	800	1 2 3 5 6 9
											VRV 8B	REYQ168	14	460/3/60	40	36.1	800	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-8)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
BS 8.01	DAIKIN BS6Q54TVJU	6	R410A	208/1/60	15	0.6	75	5
BS 8.02	DAIKIN BS6Q54TVJU	6	R410A	208/1/60	15	0.6	75	5
BS 8.03	DAIKIN BS4Q54TVJU	4	R410A	208/1/60	15	0.4	50	5

VRV FAN COIL UNITS (VRV-8)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS TOTAL COOLING CAPACITY (MBH)	SENS. COOLING CAPACITY (MBH)	HEATING CAP (MBH)	FILTER EFF.	FILTER INITIAL RES.	FILTER FINAL RES.	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
FC 8.01	DAIKIN FXMQ54PBVJU	NEW CLONE TC 325	4.5	1,625	115	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7
FC 8.02	DAIKIN FXMQ36PBVJU	CELL PILOT 321	3.0	1,150	55	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7
FC 8.03	DAIKIN FXMQ54PBVJU	TC PROCESS TESTING 323	4.5	1,625	105	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7
FC 8.04	DAIKIN FXMQ54PBVJU	TC SMALL AND LARGE SCALE 319	4.5	1,625	100	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 8.05A	DAIKIN FXMQ54PBVJU	TC SMALL AND LARGE SCALE 319	4.5	1,625	100	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 8.05B	DAIKIN FXMQ54PBVJU	TC SMALL AND LARGE SCALE 319	4.5	1,625	100	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 8.06A	DAIKIN FXMQ48PBVJU	TC SMALL AND LARGE SCALE 319	4.0	1,400	100	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 8.06B	DAIKIN FXMQ48PBVJU	TC SMALL AND LARGE SCALE 319	4.0	1,400	100	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 8.07	DAIKIN FXMQ54PBVJU	TC SMALL AND LARGE SCALE 319	4.5	1,625	100	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 8.08	DAIKIN FXMQ36PBVJU	ELEV LOBBY 301	3.0	1,150	115	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8

VRV NOTES

1. BASIS OF DESIGN VRV SYSTEM IS A DAIKIN HEAT RECOVERY SYSTEM. CONTRACTOR PROPOSED ALTERNATE VRV MANUFACTURERS SHALL BE SUBMITTED EQUIVALENT CAPABILITIES.
2. BASIS OF DESIGN CONTROL SYSTEM IS A DAIKIN SMART SYSTEM WITH A BACNET GATEWAY FOR INTEGRATION INTO THE BUILDING MANAGEMENT SYSTEM. CONTRACTOR PROPOSED ALTERNATE VRV MANUFACTURERS SHALL BE SUBMITTED WITH CONTROLS SYSTEMS WITH EQUIVALENT CAPABILITIES.
3. VRV SYSTEM SEQUENCE OF OPERATION SHALL BE DEFERRED TO THE INSTALLING VRV MANUFACTURER.
4. FANCOIL ROOM CONTROLS SHALL INCLUDE THE DAIKIN "SIMPLE" DIGITAL THERMOSTAT WITH DIGITAL DISPLAYS
5. VRV SYSTEM SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES FOR "SHUT OFF DUTY" AT ALL REFRIGERANT CONNECTION POINTS. INCLUDING BUT NOT LIMITED TO VRV OUTDOOR MODULES, HR MODULE PORTS AND FAN COIL CONNECTIONS.
6. PROVIDE COILS EXPOSED TO HIGH LEVELS OF COASTAL AIR WITH CU/CU COILS WITH NO ADDITIONAL COATINGS OR IF AL/CU COILS ARE INCLUDED PROVIDE WITH A COASTAL PROTECTION COATING (MINIMUM OF 2,000 HR SALT SPRAY TEST). EQUIPMENT INCLUDES BUT IS NOT LIMITED TO OUTDOOR HEAT RECOVERY MODULES AND DOAS UNITS.
7. DUCTLESS SYSTEMS WHICH REQUIRE SMOKE DETECTORS PER CMC 609 SHALL BE INTEGRATED WITH AREA DETECTORS LOCATED WITHIN THE SPACE. REFER TO FIRE PROTECTION PLANS FOR DETAILS.
8. PROVIDE SMOKE DETECTOR IN SUPPLY AIR DUCT AND INTERLOCK WITH UNIT CONTROLS AND FIRE ALARM SYSTEM PER CMC 609.
9. OUTDOOR MODULES TO BE PROVIDED WITH BASE REFRIGERANT CHARGE FROM VRV MANUFACTUTURER. FOR PRICING PURPOSES THE INSTALLING CONTRACTOR SHALL ASSUME 100% OF THE BASE CHARGE SHALL BE REQUIRED TO BE ADDED TO THE SYSTEM. FINAL QUANITIES TO BE DETERMINED DURING SUBMITTAL AND SHOP DRAWING PROCESS.

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (2ND FLOOR-EAST)

VRV OUTDOOR UNITS (VRV-6)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP.		SYSTEM HTG CAP.		SYSTEM EFFICIENCY			REFRIG	OUTDOOR MODULE								
		SYSTEM (TONS)	CONNECTED (TONS)	SYSTEM (MBH)	CONNECTED (MBH)	CLG. E.E.R.	CLG. I.E.E.R.	HTG. C.O.P.		REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
VRV-6	DAIKIN REYQ192	16	14.5	200	195.5	12.5	21.1	3.67	R-410A	47.6	VRV 6A	REYQ72	6	460/3/60	20	15.2	550	1 2 3 5 6 9
											VRV 6B	REYQ120	10	460/3/60	25	21.1	725	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-6)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
BS 6.01	DAIKIN BS6Q54TVJ	6	R410A	208/1/60	15	0.6	75	5

VRV FAN COIL UNITS (VRV-6)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS TOTAL COOLING CAPACITY (MBH)	SENS. COOLING CAPACITY (MBH)	HEATING CAP (MBH)	FILTER EFF.	FILTER INITIAL RES.	FILTER FINAL RES.	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
FC 6.01	DAIKIN FXMQ48PBVJU	PROCESS DEV 254	4.0	1,400	90	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 6.02	DAIKIN FXMQ48PBVJU	PROCESS DEV 254	4.0	1,400	90	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 6.03	DAIKIN FXMQ30PBVJU	OPEN OFFICE 256	2.5	1,100	275	0.40	23.9	20.2	34.0	MERV-8	0.29	0.60	208/1/60	15.00	2.80	125	4 7 8
FC 6.04	DAIKIN FXMQ12PBVJU	COMM ROOM 260	1.0	450	125	0.40	9.6	8.2	13.5	MERV-8	0.29	0.60	208/1/60	15.00	1.40	75	4 7
FC 6.05	DAIKIN FXMQ18PBVJU	FLEX 262 PHONE 264 FLEX 266	1.5	650	45	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7
FC 6.06	DAIKIN FXMQ18PBVJU	CONF ROOM	1.5	650	35	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (3RD FLOOR-WEST)

VRV OUTDOOR UNITS (VRV-7)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP.		SYSTEM HTG CAP.		SYSTEM EFFICIENCY			REFRIG	OUTDOOR MODULE								
		SYSTEM (TONS)	CONNECTED (TONS)	SYSTEM (MBH)	CONNECTED (MBH)	CLG. E.E.R.	CLG. I.E.E.R.	HTG. C.O.P.		REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
VRV-7	DAIKIN REYQ192	16	16.5	200	221	12.5	21.1	3.67	R-410A	47.6	VRV 7A	REYQ72	8	460/3/60	20	15.2	550	1 2 3 5 6
											VRV 7B	REYQ120	12	460/3/60	25	21.1	725	1 2 3 5 6

VRV HEAT RECOVERY UNITS (VRV-7)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
BS 7.01	DAIKIN BS6Q54TVJ	6	R410A	208/1/60	15	0.6	75	5
BS 7.02	DAIKIN BS4Q54TVJ	4	R410A	208/1/60	15	0.4	50	5

VRV FAN COIL UNITS (VRV-7)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS TOTAL COOLING CAPACITY (MBH)	SENS. COOLING CAPACITY (MBH)	HEATING CAP (MBH)	FILTER EFF.	FILTER INITIAL RES.	FILTER FINAL RES.	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
FC 7.01	DAIKIN FXMQ48PBVJU	TC CLARIFICATION 328	4.0	1,400	135	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7
FC 7.02	DAIKIN FXMQ36PBVJU	TC PROCESS 324	3.0	1,150	90	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7
FC 7.03	DAIKIN FXMQ12PBVJU	FLEX 320 FLEX 322	1.0	450	50	0.40	9.6	8.2	13.5	MERV-8	0.29	0.60	208/1/60	15.00	1.40	75	4 7
FC 7.04	DAIKIN FXMQ18PBVJU	OPEN OFFICE 318 WELLNESS 314 CORRIDOR	1.5	650	190	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7 8
FC 7.05	DAIKIN FXMQ18PBVJU	BREAK ROOM 316 STORAGE 312	1.5	650	65	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7
FC 7.06	DAIKIN FXMQ18PBVJU	CONF. ROOM 310	1.5	650	120	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7
FC 7.07	DAIKIN FXMQ18PBVJU	OPEN OFFICE 311	1.5	650	160	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7
FC 7.08	DAIKIN FXMQ12PBVJU	TELE 315 FLEX 317	1.0	450	30	0.40	9.6	8.2	13.5	MERV-8	0.29	0.60	208/1/60	15.00	1.40	75	4 7
FC 7.09	DAIKIN FXMQ18PBVJU	COMM ROOM 313	1.5	650	95	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7

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GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL SCHEDULES

Sheet No.
2M-008

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (4TH FLOOR-WEST)

VRV OUTDOOR UNITS (VRV-11)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP.		SYSTEM HTG CAP.		SYSTEM EFFICIENCY			REFRIG	OUTDOOR MODULE								
		SYSTEM (TONS)	CONNECTED (TONS)	SYSTEM (MBH)	CONNECTED (MBH)	CLG. E.E.R.	CLG. I.E.E.R.	HTG. C.O.P.		REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
VRV-11	DAIKIN REYQ192	16	17.75	200	237.5	12.5	21.1	3.67	R-410A	47.6	VRV 11A	REYQ72	6	460/3/60	20	15.2	750	1 2 3 5 6 9
											VRV 11B	REYQ120	10	460/3/60	25	21.1	800	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-11)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
BS 11.01	DAIKIN BS8Q54TVJ	8	R410A	208/1/60	15	0.8	75	5

VRV FAN COIL UNITS (VRV-11)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS TOTAL COOLING CAPACITY (MBH)	SENS. COOLING CAPACITY (MBH)	HEATING CAP (MBH)	FILTER EFF.	INITIAL RES.	FINAL RES.	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
FC 11.01	DAIKIN FXMQ36PBVJU	ELEV LOBBY 401	3.0	1,150	220	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 11.02	DAIKIN FXMQ36PBVJU	CST 430	3.0	1,150	90	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 11.03	DAIKIN FXMQ48PBVJU	CST 430	4.0	1,400	90	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 11.04	DAIKIN FXMQ36PBVJU	OPEN OFFICE 418	3.0	1,150	290	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 11.05	DAIKIN FXMQ36PBVJU	TELE ROOM 416 FLEX OFFICE 420 FLEX OFFICE 422 FLEX OFFICE 424	3.0	1,150	60	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 11.06	DAIKIN FXMQ15PBVJU	COMM ROOM 414	1.25	560	95	0.40	12.0	10.4	16.5	MERV-8	0.29	0.60	208/1/60	15.00	1.50	100	4 7
FC 11.07	DAIKIN FXMQ18PBVJU	BREAK ROOM 410	1.5	650	100	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (4TH FLOOR-WEST)

VRV OUTDOOR UNITS (VRV-12)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP.		SYSTEM HTG CAP.		SYSTEM EFFICIENCY			REFRIG	OUTDOOR MODULE								
		SYSTEM (TONS)	CONNECTED (TONS)	SYSTEM (MBH)	CONNECTED (MBH)	CLG. E.E.R.	CLG. I.E.E.R.	HTG. C.O.P.		REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
VRV-12	DAIKIN REYQ312	26	32.75	312	496.5	10.3	18.1	3.2	R-410A	51.6	VRV 12A	REYQ144	12	460/3/60	40	31.9	800	1 2 3 5 6 9
											VRV 12B	REYQ168	14	460/3/60	40	36.1	800	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-12)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
BS 12.01	DAIKIN BS6Q54TVJ	6	R410A	208/1/60	15	0.6	75	5
BS 12.02	DAIKIN BS6Q54TVJ	6	R410A	208/1/60	15	0.6	75	5
BS 12.03	DAIKIN BSQ36TVJ	1	R410A	208/1/60	15	0.1	50	5

VRV FAN COIL UNITS (VRV-12)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS TOTAL COOLING CAPACITY (MBH)	SENS. COOLING CAPACITY (MBH)	HEATING CAP (MBH)	FILTER EFF.	INITIAL RES.	FINAL RES.	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
FC 12.01	DAIKIN FXMQ54PBVJU	FLOW PD 415	4.5	1,625	85	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 12.02	DAIKIN FXMQ54PBVJU	FLOW PD 415	4.5	1,625	85	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 12.03	DAIKIN FXMQ54PBVJU	FLOW PD 413	4.5	1,625	95	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 12.04	DAIKIN FXMQ54PBVJU	FLOW PD 413	4.5	1,625	95	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 12.05	DAIKIN FXMQ54PBVJU	FLOW PD 413	4.5	1,625	95	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 12.06	DAIKIN FXMQ54PBVJU	FLOW PD 413	4.5	1,625	95	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 12.07	DAIKIN FXMQ54PBVJU	FLOW PD 413	4.5	1,625	95	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 12.08	DAIKIN FXMQ54PBVJU	FLOW PD 413	4.5	1,625	95	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 12.09	DAIKIN FXMQ15PBVJU	PHLEBOTOMY 411	1.25	560	35	0.40	12.0	10.4	16.5	MERV-8	0.29	0.60	208/1/60	15.00	1.50	100	4 7 8

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (3RD FLOOR-EAST)

VRV OUTDOOR UNITS (VRV-10)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP.		SYSTEM HTG CAP.		SYSTEM EFFICIENCY			REFRIG	OUTDOOR MODULE								
		SYSTEM (TONS)	CONNECTED (TONS)	SYSTEM (MBH)	CONNECTED (MBH)	CLG. E.E.R.	CLG. I.E.E.R.	HTG. C.O.P.		REFRIG CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
VRV-10	DAIKIN REYQ288	24	31.75	294	481.5	10.5	17.9	3.2	R-410A	51.6	VRV 10A	REYQ144	12	460/3/60	40	31.9	800	1 2 3 5 6 9
											VRV 10B	REYQ144	12	460/3/60	40	31.9	800	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-10)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
BS 10.01	DAIKIN BS4Q54TVJ	4	R410A	208/1/60	15	0.4	50	5
BS 10.02	DAIKIN BS4Q54TVJ	4	R410A	208/1/60	15	0.4	50	5
BS 10.03	DAIKIN BS4Q54TVJ	4	R410A	208/1/60	15	0.4	50	5

VRV FAN COIL UNITS (VRV-10)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS TOTAL COOLING CAPACITY (MBH)	SENS. COOLING CAPACITY (MBH)	HEATING CAP (MBH)	FILTER EFF.	INITIAL RES.	FINAL RES.	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
FC 10.01	DAIKIN FXMQ54PBVJU	STOCK ROOM 311	4.5	1,625	170	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 10.02	DAIKIN FXMQ48PBVJU	STOCK ROOM 311	4.0	1,400	170	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 10.03	DAIKIN FXMQ24PBVJU	RESTROOM 353 & 357	2.0	700	305	0.40	19.2	16.1	27.0	MERV-8	0.29	0.60	208/1/60	15.00	1.80	100	4 7 8
FC 10.04	DAIKIN FXMQ15PBVJU	MICROSCOPE 363	1.25	560	15	0.40	12.0	10.4	16.5	MERV-8	0.29	0.60	208/1/60	15.00	1.50	100	4 7 8
FC 10.05	DAIKIN FXMQ48PBVJU	GMP TC 365	4.0	1,400	30	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 10.06	DAIKIN FXMQ54PBVJU	GMP 361	4.5	1,625	390	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 10.07	DAIKIN FXMQ54PBVJU	GMP 361	4.5	1,625	385	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 10.08	DAIKIN FXMQ54PBVJU	SHELL SPACE 371	4.5	1,625	140	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 10.09	DAIKIN FXMQ54PBVJU	SHELL SPACE 371	4.5	1,625	140	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8

VRV NOTES

1. BASIS OF DESIGN VRV SYSTEM IS A DAIKIN HEAT RECOVERY SYSTEM. CONTRACTOR PROPOSED ALTERNATE VRV MANUFACTURERS SHALL BE SUBMITTED EQUIVALENT CAPABILITIES.
2. BASIS OF DESIGN CONTROL SYSTEM IS A DAIKIN SMART SYSTEM WITH A BACNET GATEWAY FOR INTEGRATION INTO THE BUILDING MANAGEMENT SYSTEM. CONTRACTOR PROPOSED ALTERNATE VRV MANUFACTURERS SHALL BE SUBMITTED WITH CONTROLS SYSTEMS WITH EQUIVALENT CAPABILITIES.
3. VRV SYSTEM SEQUENCE OF OPERATION SHALL BE DEFERRED TO THE INSTALLING VRV MANUFACTURER.
4. FANCOIL ROOM CONTROLS SHALL INCLUDE THE DAIKIN "SIMPLE" DIGITAL THERMOSTAT WITH DIGITAL DISPLAYS
5. VRV SYSTEM SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES FOR "SHUT OFF DUTY" AT ALL REFRIGERANT CONNECTION POINTS. INCLUDING BUT NOT LIMITED TO VRV OUTDOOR MODULES, HR MODULE PORTS AND FAN COIL CONNECTIONS.
6. PROVIDE COILS EXPOSED TO HIGH LEVELS OF COASTAL AIR WITH CU/CU COILS WITH NO ADDITIONAL COATINGS OR IF AL/CU COILS ARE INCLUDED PROVIDE WITH A COASTAL PROTECTION COATING (MINIMUM OF 2,000 HR SALT SPRAY TEST). EQUIPMENT INCLUDES BUT IS NOT LIMITED TO OUTDOOR HEAT RECOVERY MODULES AND DOAS UNITS.
7. DUCTLESS SYSTEMS WHICH REQUIRE SMOKE DETECTORS PER CMC 609 SHALL BE INTEGRATED WITH AREA DETECTORS LOCATED WITHIN THE SPACE. REFER TO FIRE PROTECTION PLANS FOR DETAILS.
8. PROVIDE SMOKE DETECTOR IN SUPPLY AIR DUCT AND INTERLOCK WITH UNIT CONTROLS AND FIRE ALARM SYSTEM PER CMC 609.
9. OUTDOOR MODULES TO BE PROVIDED WITH BASE REFRIGERANT CHARGE FROM VRV MANUFACTUTURER. FOR PRICING PURPOSES THE INSTALLING CONTRACTOR SHALL ASSUME 100% OF THE BASE CHARGE SHALL BE REQUIRED TO BE ADDED TO THE SYSTEM. FINAL QUANITIES TO BE DETERMINED DURING SUBMITTAL AND SHOP DRAWING PROCESS.

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GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL SCHEDULES

Sheet No.
2M-009

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (4TH FLOOR-EAST)

VRV OUTDOOR UNITS (VRV-14)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP.		SYSTEM HTG CAP.		SYSTEM EFFICIENCY			REFRIG	OUTDOOR MODULE									
		SYSTEM (TONS)	CONNECTED (TONS)	SYSTEM (MBH)	CONNECTED (MBH)	CLG. E.E.R.	CLG. I.E.E.R.	HTG. C.O.P.		REFRIG CHARGE (LBS)	ADD'L CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
VRV-14	DAIKIN REYQ432	36	47.2	398	696	9.7	17.3	3.2	R-410A	77.4	109.8	VRV 14A	REYQ144	12	460/3/60	40	31.9	800	1 2 3 5 6 9
												VRV 14B	REYQ144	12	460/3/60	40	31.9	800	1 2 3 5 6 9
												VRV 14B	REYQ144	12	460/3/60	40	31.9	800	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-14)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
BS 14.01	DAIKIN BS4Q54TVJ	4	R410A	208/1/60	15	0.4	50	5
BS 14.02	DAIKIN BS8Q54TVJ	8	R410A	208/1/60	15	0.8	75	5
BS 14.03	DAIKIN BS4Q54TVJ	4	R410A	208/1/60	15	0.4	50	5
BS 14.04	DAIKIN BS8Q54TVJ	8	R410A	208/1/60	15	0.8	75	5

VRV FAN COIL UNITS (VRV-14)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS			FILTER			ELECTRICAL DATA			OPER. WT. (LBS)	REMARKS
							TOTAL COOLING CAPACITY (MBH)	SENS. COOLING CAPACITY (MBH)	HEATING CAP (MBH)	EFF.	INITIAL RES.	FINAL RES.	V/Ph/Hz	MOCP	MCA		
FC 14.01	DAIKIN FXMQ48PBVJU	FLOW CORE 421	4.0	1,400	95	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 14.02	DAIKIN FXMQ48PBVJU	FLOW CORE 421	4.0	1,400	95	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 14.03	DAIKIN FXMQ48PBVJU	FLOW CORE 421	4.0	1,400	95	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 14.04A	DAIKIN FXAQ24PVJU	LYO 451	2.0	650	15	0.40	24.0	18.0	26.5	MERV-8	0.29	0.60	208/1/60	15.00	0.6	125	4 7
FC 14.04B	DAIKIN FXAQ24PVJU	LYO 451	2.0	650	15	0.40	24.0	18.0	26.5	MERV-8	0.29	0.60	208/1/60	15.00	0.6	125	4 7
FC 14.04C	DAIKIN FXAQ24PVJU	LYO 451	2.0	650	15	0.40	24.0	18.0	26.5	MERV-8	0.29	0.60	208/1/60	15.00	0.6	125	4 7
FC 14.04D	DAIKIN FXAQ24PVJU	LYO 451	2.0	650	15	0.40	24.0	18.0	26.5	MERV-8	0.29	0.60	208/1/60	15.00	0.6	125	4 7
FC 14.04E	DAIKIN FXAQ24PVJU	LYO 451	2.0	650	15	0.40	24.0	18.0	26.5	MERV-8	0.29	0.60	208/1/60	15.00	0.6	125	4 7
FC 14.04F	DAIKIN FXAQ24PVJU	LYO 451	2.0	650	15	0.40	24.0	18.0	26.5	MERV-8	0.29	0.60	208/1/60	15.00	0.6	125	4 7
FC 14.05	DAIKIN FXMQ30PBVJU	FLOW QC TC 473	2.5	1,100	40	0.40	23.9	20.2	34.0	MERV-8	0.29	0.60	208/1/60	15.00	2.80	125	4 7
FC 14.06	DAIKIN FXMQ48PBVJU	FLOW QC MOUSE LAB 475	4.0	1,400	100	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 14.07	DAIKIN FXMQ48PBVJU	FLOW QC MOUSE LAB 475	4.0	1,400	100	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 14.08	DAIKIN FXMQ48PBVJU	FLOW QC MOUSE LAB 475	4.0	1,400	100	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 14.09	DAIKIN FXMQ48PBVJU	FLOW QC MOUSE LAB 475	4.0	1,400	100	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 14.10	DAIKIN FXMQ48PBVJU	FLOW QC MOUSE LAB 475	4.0	1,400	100	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 14.11	DAIKIN FXMQ30PBVJU	OPEN OFFICE 481	2.5	1,100	120	0.40	23.9	20.2	34.0	MERV-8	0.29	0.60	208/1/60	15.00	2.80	125	4 7
FC 14.12	DAIKIN FXMQ18PBVJU	COMM ROOM 483	1.5	650	100	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7
FC 14.13	DAIKIN FXMQ07PBVJU	FLEX 487	0.6	320	20	0.40	6.0	5.6	8.5	MERV-8	0.29	0.60	208/1/60	15.00	0.60	75	4 7
FC 14.14	DAIKIN FXMQ07PBVJU	TELE 489	0.6	320	15	0.40	6.0	5.6	8.5	MERV-8	0.29	0.60	208/1/60	15.00	0.60	75	4 7

2.3

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM - (4TH FLOOR- EAST)

VRV OUTDOOR UNITS (VRV-13)

SYSTEM	MANUFACTURER & MODEL NO.	SYSTEM CLG CAP.		SYSTEM HTG CAP.		SYSTEM EFFICIENCY			REFRIG	OUTDOOR MODULE									
		SYSTEM (TONS)	CONNECTED (TONS)	SYSTEM (MBH)	CONNECTED (MBH)	CLG. E.E.R.	CLG. I.E.E.R.	HTG. C.O.P.		REFRIG CHARGE (LBS)	ADD'L CHARGE (LBS)	MARK	MODEL	TOTAL COOLING CAPACITY (TONS)	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
VRV-13	DAIKIN REYQ192	16	23.5	200	316	12.5	21.1	3.67	R-410A	47.6	40.1	VRV 13A	REYQ72	6	460/3/60	20	15.2	800	1 2 3 5 6 9
												VRV 13B	REYQ120	12	460/3/60	25	21.1	800	1 2 3 5 6 9

VRV HEAT RECOVERY UNITS (VRV-13)

MARK	MODEL NO.	NUMBER OF PORTS	REFRIG	ELECTRICAL DATA V/Ph/Hz	MOCP	MCA	OPER. WT. (LBS)	REMARKS
BS 13.01	DAIKIN BS10Q54TVJ	10	R410A	208/1/60	15	1.0	125	5

VRV FAN COIL UNITS (VRV-13)

MARK	MODEL NO.	SERVICE	NOMINAL CAPACITY (TONS)	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WG)	COIL CAPACITIES - AHRI CONDITIONS			FILTER			ELECTRICAL DATA			OPER. WT. (LBS)	REMARKS
							TOTAL COOLING CAPACITY (MBH)	SENS. COOLING CAPACITY (MBH)	HEATING CAP (MBH)	EFF.	INITIAL RES.	FINAL RES.	V/Ph/Hz	MOCP	MCA		
FC 13.01	DAIKIN FXMQ12PBVJU	DARK ROOM 450	1.0	450	0	0.40	9.6	8.2	13.5	MERV-8	0.29	0.60	208/1/60	15.00	1.40	75	4 7
FC 13.02	DAIKIN FXMQ48PBVJU	HYB TC 1 470	4.0	1,400	90	0.40	38.2	30.5	54.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 13.03	DAIKIN FXMQ36PBVJU	HYB LAB 472	3.0	1,150	90	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 13.04	DAIKIN FXMQ36PBVJU	HYB LAB 472	3.0	1,150	90	0.40	28.7	24.3	40.0	MERV-8	0.29	0.60	208/1/60	15.00	2.90	125	4 7 8
FC 13.05	DAIKIN FXMQ54PBVJU	HYB TC 2 474	4.5	1,625	90	0.40	43.0	34.3	60.0	MERV-8	0.29	0.60	208/1/60	15.00	3.40	125	4 7 8
FC 13.06	DAIKIN FXMQ12PBVJU	DARK ROOM 472A	1.0	450	15	0.40	9.6	8.2	13.5	MERV-8	0.29	0.60	208/1/60	15.00	1.40	75	4 7
FC 13.07	DAIKIN FXMQ18PBVJU	OPEN OFFICE 480	1.5	650	135	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7 8
FC 13.08	DAIKIN FXMQ18PBVJU	OFFICE 482 OFFICE 484 OFFICE 486	1.5	650	45	0.40	14.3	13.5	20.0	MERV-8	0.29	0.60	208/1/60	15.00	1.60	100	4 7
FC 13.09	DAIKIN FXMQ24PBVJU	COMM ROOM 488	2.0	700	90	0.40	19.2	16.1	27.0	MERV-8	0.29	0.60	208/1/60	15.00	1.80	100	4 7
FC 13.10	DAIKIN FXMQ30PBVJU	RESTROOMS 457 & 461	2.5	1,100	400	0.40	23.9	20.2	34.0	MERV-8	0.29	0.60	208/1/60	15.00	2.80	125	4 7 8

VRV NOTES

1. BASIS OF DESIGN VRV SYSTEM IS A DAIKIN HEAT RECOVERY SYSTEM. CONTRACTOR PROPOSED ALTERNATE VRV MANUFACTURERS SHALL BE SUBMITTED EQUIVALENT CAPABILITIES.
2. BASIS OF DESIGN CONTROL SYSTEM IS A DAIKIN SMART SYSTEM WITH A BACNET GATEWAY FOR INTEGRATION INTO THE BUILDING MANAGEMENT SYSTEM. CONTRACTOR PROPOSED ALTERNATE VRV MANUFACTURERS SHALL BE SUBMITTED WITH CONTROLS SYSTEMS WITH EQUIVALENT CAPABILITIES.
3. VRV SYSTEM SEQUENCE OF OPERATION SHALL BE DEFERRED TO THE INSTALLING VRV MANUFACTURER.
4. FANCOIL ROOM CONTROLS SHALL INCLUDE THE DAIKIN "SIMPLE" DIGITAL THERMOSTAT WITH DIGITAL DISPLAYS
5. VRV SYSTEM SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES FOR "SHUT OFF DUTY" AT ALL REFRIGERANT CONNECTION POINTS. INCLUDING BUT NOT LIMITED TO VRV OUTDOOR MODULES, HR MODULE PORTS AND FAN COIL CONNECTIONS.
6. PROVIDE COILS EXPOSED TO HIGH LEVELS OF COASTAL AIR WITH CU/CU COILS WITH NO ADDITIONAL COATINGS OR IF AL/CU COILS ARE INCLUDED PROVIDE WITH A COASTAL PROTECTION COATING (MINIMUM OF 2,000 HR SALT SPRAY TEST). EQUIPMENT INCLUDES BUT
7. IS NOT LIMITED TO OUTDOOR HEAT RECOVERY MODULES AND DOAS UNITS.

   DUCTLESS SYSTEMS WHICH REQUIRE SMOKE DETECTORS PER CMC 609 SHALL BE INTEGRATED WITH AREA DETECTORS LOCATED WITHIN THE SPACE. REFER TO FIRE PROTECTION PLANS FOR DETAILS.
8. PROVIDE SMOKE DETECTOR IN SUPPLY AIR DUCT AND INTERLOCK WITH UNIT CONTROLS AND FIRE ALARM SYSTEM PER CMC 609.
9. OUTDOOR MODULES TO BE PROVIDED WITH BASE REFRIGERANT CHARGE FROM VRV MANUFACTUTURER. FOR PRICING PURPOSES THE INSTALLING CONTRACTOR SHALL ASSUME 100% OF THE BASE CHARGE SHALL BE REQUIRED TO BE ADDED TO THE SYSTEM. FINAL QUANITIES TO BE DETERMINED DURING SUBMITTAL AND SHOP DRAWING PROCESS.

11/7/2017 9:16:50 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL SCHEDULES

Sheet No.

2M-010

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) – Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed Pass	Confirmed Fail
1.	Total Conditioned Floor Area	123,571 ft²	5.	Number of Floors Above Grade	4		
2.	Total Unconditioned Floor Area	2,337 ft²	6.	Number of Floors Below Grade	0		
3.	Addition Conditioned Floor Area	0 ft²					
4.	Addition Unconditioned Floor Area	0 ft²					

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	19,127 ft²	6,487 ft²	33.9%	☐	☐
East Wall	15,779 ft²	6,268 ft²	39.7%	☐	☐
South Wall	9,482 ft²	2,480 ft²	26.2%	☐	☐
West Wall	17,177 ft²	5,233 ft²	30.5%	☐	☐
Total:	**61,565 ft²**	**20,468 ft²**	**33.2%**	☐	☐
Roof	34,599 ft²	0 ft²	00.0%	☐	☐

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.0	27.1	--	602.5	305.8	296.7
Space Cooling	225.5	201.0	24.5	--	--	--
Indoor Fans	122.8	121.1	1.7	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	6.6	20.0	-13.4	--	--	--
Domestic Hot Water	--	--	--	193.5	193.5	0.0
Indoor Lighting	294.5	213.0	81.5	--	--	--
COMPLIANCE TOTAL	**649.4**	**582.2**	**67.2**	**796.0**	**499.3**	**296.7**
Receptacle	467.0	467.0	0.0	--	--	--
Process	150.3	150.3	0.0	--	--	--
Other Ltg	--	--	--	--	--	--
TOTAL	**1,266.7**	**1,199.5**	**67.2**	**796.0**	**499.3**	**296.7**

A. OPAQUE SURFACE ASSEMBLY DETAILS

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Confirmed Pass	Confirmed Fail
8 Concrete w/ r11210	ExteriorWall	Stucco - 7/8 in. Concrete - Solid Grout - 105 lb/ft3 - 8 in. Metal framed wall, 24in. OC, 3.5in., R-11 Gypsum Board - 5/8 in.		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

1. Fenestration Tag/ID	2. Fenestration Orientation	3. Overhang Dimensions: Horizontal Projection	3. Overhang Dimensions: Distance Above Window	4. Side fin: Vertical Projection	Confirmed Pass	Confirmed Fail
Window 19x6179	East	1.0 ft.	0.1 ft.	Left: 0 ft., Right: 100.0 ft.	☐	☐
Window 7x6402	East	None	None	Left: 140.0 ft., Right: 0 ft.	☐	☐
Window 36x15.5211	South	4.0 ft.	0.1 ft.	Left: 0 ft., Right: 100.0 ft.	☐	☐
Window 30x5.5218	East	4.0 ft.	0.1 ft.	Left: 0 ft., Right: 100.0 ft.	☐	☐
Window 11x5727	West	1.0 ft.	0.1 ft.	Left: 2.0 ft., Right: 2.0 ft.	☐	☐

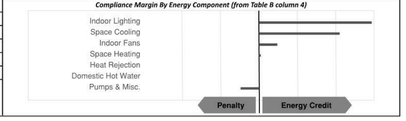
C. OPAQUE DOOR SUMMARY

1. Opaque Door Assembly Name / Tag or I.D.	2. Door Type	3. Certification Method	4. Operation	5. Area	6. Overall U-factor	7. Status[1]	Confirmed Pass	Confirmed Fail
Metal Door156	MetalUninsulatedDoubleLayerDoor	DefaultPerformance	Swinging	578	0.700	N	☐	☐

[1] *Status: N - New, A – Altered, E – Existing*

C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Indoor Lighting: Check lighting	*Compliance Margin By Energy Component (from Table B column 4)*
2nd	Space Cooling: Check envelope and mechanical	
3rd	Indoor Fans: Check envelope and mechanical	
4th	Space Heating: Check envelope and mechanical	
5th	Heat Rejection: Check envelope and mechanical	
6th	Domestic Hot Water: Check mechanical	
7th	Pumps & Misc.: Check mechanical	



D. EXCEPTIONAL CONDITIONS

The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

L. ROOFING PRODUCT SUMMARY § 140.3

1. Product Type	2. Product Density (lb/ft³)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Confirmed Pass	Confirmed Fail
R-25 Roof (w/cool roof)141	23.6235	0.65	0.86	Not Provided	Yes	CRRC Prod. ID: R-25 Roof (w/cool roof)	☐	☐
Green Roof207	36.491	0.08	0.75	NA	No	NA	☐	☐

M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) § 110.1 / § 110.2

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1. Equip Name	2. Equip Type	3. System Type (Simple [2] or Complex [3])	4. Qty	5. Total Heating Output (kBtu/h)	6. Supp Heat Source (Y/N)	7. Supp Heat Output (kBtuh)	8. Total Cooling Output (kBtu/h)	9. Efficiency: Cooling	9. Efficiency: Heating	10. Acceptance Testing Required? (Y/N) [4]	11. Status[5]	Confirmed Pass	Confirmed Fail
AC-1 (Atrium)	PVAV (Packaged3Phase)	Complex	1	125	No	0	489	EER-10.3	NA	Yes	N	☐	☐
AHU-1A & 1B (Vivarium)	PVAV (Packaged3Phase)	Complex	1	184	No	0	115	EER-11.1	NA	Yes	N	☐	☐
AHU-2 (Buffer Rooms)	PVAV (Packaged3Phase)	Complex	1	355	No	0	173	EER-11.1	NA	Yes	N	☐	☐
SSFC 1.1	SZVAVHP (Packaged1Phase)	Complex	1	40	No	0	35	SEER-15.0 / EER-12.5	HSPF-7.7	Yes	N	☐	☐
SSFC 1.1A/1.1B	SZVAVHP (Packaged3Phase)	Complex	1	27	No	0	23	SEER-15.0 / EER-12.5	HSPF-7.7	Yes	N	☐	☐
SSFC 1.2A/1.2B	SZVAVHP (Packaged1Phase)	Complex	1	40	No	0	35	SEER-15.0 / EER-12.5	HSPF-7.7	Yes	N	☐	☐
SSFC 1.3A/1.3B	SZVAVHP (Packaged1Phase)	Complex	1	34	No	0	29	SEER-15.0 / EER-12.5	HSPF-7.7	Yes	N	☐	☐
SSFC 2.1A/2.1B	SZVAVHP (Packaged1Phase)	Complex	1	40	No	0	35	SEER-15.0 / EER-12.5	HSPF-7.7	Yes	N	☐	☐
SSFC 2.2A/2.2B	SZVAVHP (Packaged1Phase)	Complex	1	40	No	0	35	SEER-15.0 / EER-12.5	HSPF-7.7	Yes	N	☐	☐

NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Confirmed Pass	Confirmed Fail
Slab On Grade6	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0		☐	☐
Interior Wall8	InteriorWall	Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-11 Gypsum Board - 1/2 in.		☐	☐
Metal Wall R19 w/R-815	ExteriorWall	Fiber cement board - 88 lb/ft3 - 1/3 in. Vapor permeable felt - 1/8 in. Compliance Insulation R8.00 Metal framed wall, 16in. OC, 7.25in., R-19 Gypsum Board - 5/8 in.		☐	☐
Concrete Raised22	InteriorFloor	Concrete - 140 lb/ft3 - 4 in. Compliance Insulation R28.63		☐	☐
Stucco Wall R13 Batt70	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Compliance Insulation R9.94 Metal framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.		☐	☐
Spandrel Wall R13127	ExteriorWall	Aluminum w/out Thrml Break - Triple or low e glass - No Ins. Glass fiber batt - 3 1/2 in. R13 (CEC Default)		☐	☐
R-25 Roof (w/cool roof)141	Roof	Light Roof - 2/5 in. Hardboard - HDF - 50 lb/ft3 - 1/2 in. Compliance Insulation R24.86 Concrete - 100 lb/ft3 - 2 in. Metal Deck - 1/16 in.		☐	☐
Green Roof207	Roof	Compliance Insulation R20.05 Compliance Insulation R3.70 Compliance Insulation R22.48 Concrete - 100 lb/ft3 - 4 in. Metal Deck - 1/16 in.		☐	☐

A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	San Diego	8.	Standards Version	Compliance2016
2.	CA Zip Code	92121	9.	Compliance Software (version)	EnergyPro 7.1
3.	Climate Zone	7	10.	Weather File	SAN-DIEGO-MONTGOMER_722903_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	123,571 ft²	11.	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	2,337 ft²	12.	Permitted Scope of Work	NewComplete
6.	Total # of Stories (Habitable Above Grade)	4	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr) § 140.1

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	7.70	7.53	0.17	2.2%
Space Cooling	67.14	55.32	11.82	17.6%
Indoor Fans	25.02	22.41	2.61	10.4%
Heat Rejection	--	--	--	--
Pumps & Misc.	0.97	3.62	-2.65	-273.2%
Domestic Hot Water	2.27	2.27	--	0.0%
Indoor Lighting	59.75	43.19	16.56	27.7%
COMPLIANCE TOTAL	**162.85**	**134.34**	**28.51**	**17.5%**
Receptacle	96.37	96.37	0.0	0.0%
Process	26.85	26.85	0.0	0.0%
Other Ltg	--	--	--	--
TOTAL	**286.07**	**257.56**	**28.5**	**10.0%**

J. FENESTRATION ASSEMBLY SUMMARY § 110.6

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]	Confirmed Pass	Confirmed Fail
WTB-58 #2	VerticalFenestration FixedWindow N/A	NFRC Rated	SiteBuilt	7873	0.27	0.24	0.52	N	☐	☐
Door Solarban 90 clear+clear	VerticalFenestration GlazedDoor N/A	NFRC Rated	SiteBuilt	1848	0.49	0.25	0.54	N	☐	☐
Solarban-90 clear+clear (BioLegend)	VerticalFenestration FixedWindow N/A	NFRC Rated	SiteBuilt	10747	0.49	0.25	0.54	N	☐	☐

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A – Altered, E – Existing*

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information) No

K. OPAQUE SURFACE ASSEMBLY SUMMARY § 120.7/ § 140.3

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	8. Status[1]	Confirmed Pass	Confirmed Fail
Slab On Grade6	UndergroundFloor	40551	NA	0	NA	F-Factor: 0.730	N	☐	☐
Interior Wall8	InteriorWall	70980	Metal	11	NA	U-Factor: 0.193	N	☐	☐
Metal Wall R19 w/R-815	ExteriorWall	45220	Metal	19	8	U-Factor: 0.070	N	☐	☐
Concrete Raised22	InteriorFloor	87971	NA	0	29	U-Factor: 0.033	N	☐	☐
Stucco Wall R13 Batt70	ExteriorWall	9444	Metal	19	10	U-Factor: 0.065	N	☐	☐
Spandrel Wall R13127	ExteriorWall	5116	NA	0	13	U-Factor: 0.060	N	☐	☐
R-25 Roof (w/cool roof)141	Roof	28674	NA	0	25	U-Factor: 0.037	N	☐	☐
Green Roof207	Roof	6395	NA	0	46	U-Factor: 0.021	N	☐	☐
8 Concrete w/ r11210	ExteriorWall	1920	Metal	11	NA	U-Factor: 0.173	N	☐	☐

[1] *Status: N - New, A – Altered, E – Existing*

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT § 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Alex Gines	Signature:
Company: DEC Engineers, Inc.	
Address: 7360 Carroll Road, Ste.100	Signature Date:
City/State/Zip: San Diego CA 92121	CEA Identification (If applicable): M35573
Phone: 858-578-3270	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: Delawie	**Signature:**	
Company: Delawie		
Address: 1515 Morena Blvd	Date Signed:	
City/State/Zip: San Diego CA 92110	Declaration Statement Type:	
Phone: 619-299-6690	Title:	License #:
Responsible Lighting Designer Name: Elen Consulting	**Signature:**	
Company: Elen Consulting		
Address: 9150 Chesapeake Dr., Ste. 220	Date Signed:	
City/State/Zip: San Diego CA 92123	Declaration Statement Type:	
Phone: 619-550-1085	Title:	License #:
Responsible Mechanical Designer Name: Chris Deck	**Signature:**	
Company: DEC Engineers		
Address: 7360 Carroll Road	Date Signed:	
City/State/Zip: San Diego CA 92121	Declaration Statement Type:	
Phone: 858-578-3270	Title:	License #: M30087

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

TITLE 24

Sheet No.

2M-011

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

Project Name:	Biolegend CP-2	NRCC-PRF-01-E	Page 90 of 127
Project Address:	Terman Court San Diego 92121	Calculation Date/Time:	09:44, Sat, Aug 05, 2017
Compliance Scope:	NewComplete	Input File Name:	BioLegend CP-2 (Lighting) - Fixed Copy.cibd16x

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* **§ RA4**

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECM5	Pass	Fail
FC 1.07 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 1.08 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 1.09 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.01 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.02 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.03 -2.5T (2.07)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.04 -2T (2.03)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.05 -2.5T (2.04)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.06 -2.5T (2.05)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.08 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.09 -1.5T (2.13)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐

Project Name:	Biolegend CP-2	NRCC-PRF-01-E	Page 89 of 127
Project Address:	Terman Court San Diego 92121	Calculation Date/Time:	09:44, Sat, Aug 05, 2017
Compliance Scope:	NewComplete	Input File Name:	BioLegend CP-2 (Lighting) - Fixed Copy.cibd16x

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Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECM5	Pass	Fail
SSFC 2.2A/2.2B	1	X	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
SSFC 3.1A/3.1B	1	X	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
SSFC 3.2A/3.2B	1	X	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
MUA-2 (VRF-14-13-10-9-6-5	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
SSFC 4.2A/4.2B	1	X	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
MUA-1 & 2	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 1.01 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 1.02 - 4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 1.03 -2.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 1.04 -2.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 1.05 -2T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 1.06 -2T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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Compliance Scope:	NewComplete	Input File Name:	BioLegend CP-2 (Lighting) - Fixed Copy.cibd16x

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* **§ RA4**

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Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECM5	Pass	Fail
Z21 - HotWater	1	--	--	--	--	--	--	X	X	X	--	--	--	--	--	--	--	--	☐	☐
NonResBase SHWSystem	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
AC-1 (Atrium)	1	X	--	X	X	X	X	--	--	--	X	X	--	--	--	X	--	--	☐	☐
AHU-1A & 1B (Vivarium)	1	X	--	--	--	--	X	--	--	--	X	--	--	--	--	X	--	--	☐	☐
AHU-2 (Buffer Rooms)	1	X	--	--	--	--	X	--	--	--	X	--	--	--	--	X	--	--	☐	☐
SSFC 1.1	1	X	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
SSFC 1.1A/1.1B	1	X	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
SSFC 1.2A/1.2B	1	X	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
SSFC 1.3A/1.3B	1	X	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
SSFC 2.1A/2.1B	1	X	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐

Project Name:	Biolegend CP-2	NRCC-PRF-01-E	Page 93 of 127
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FC 5.06 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 5.07 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 5.08 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 6.01 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 6.02 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 6.03 -2.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 6.04 -1T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 6.05 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 6.06 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 7.01 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 7.02 -2.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
MUA-1 (VRF-12118743	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 7.04 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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FC 3.03 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 3.04 -4T (& 3.05)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 3.05 -2T (3.06 & 3.07)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 4.01 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 4.02 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 4.03 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 4.04 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 4.05 -2T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 4.06 -1T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 4.07 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 5.01 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 5.02 -2T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 5.03 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 5.04 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 5.05 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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FC 2.10 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.11 -2.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.12 -2.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.13 -4T (& 2.14)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.14 -1.5T (???)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.15 -1.5T (???)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.16 -1T (???)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.17 -1T (???)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 2.18 -1.5T (???)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 3.01 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 3.02 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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FC 11.04 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 11.05 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 11.06 -2T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 11.07 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 12.01 & 12.02 -3T	2	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 12.03 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 12.04 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 12.05 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 12.06 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 12.07 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 12.08 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 13.01 -1T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 13.02 -3T (13.03)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 13.03 -3T (13.04)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐

Project Name:	Biolegend CP-2	NRCC-PRF-01-E	Page 95 of 127
Project Address:	Terman Court San Diego 92121	Calculation Date/Time:	09:44, Sat, Aug 05, 2017
Compliance Scope:	NewComplete	Input File Name:	BioLegend CP-2 (Lighting) - Fixed Copy.cibd16x

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* **§ RA4**

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECM5	Pass	Fail
FC 9.03 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 9.04 -2.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 9.05 -1T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 9.06 -1T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 10.01 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 10.02 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 10.03 -2T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 10.05 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 10.06 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 10.07 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 10.08 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 10.09 -2.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 11.01 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 11.02 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 11.03 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐

Project Name:	Biolegend CP-2	NRCC-PRF-01-E	Page 94 of 127
Project Address:	Terman Court San Diego 92121	Calculation Date/Time:	09:44, Sat, Aug 05, 2017
Compliance Scope:	NewComplete	Input File Name:	BioLegend CP-2 (Lighting) - Fixed Copy.cibd16x

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* **§ RA4**

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Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECM5	Pass	Fail
FC 7.05 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 7.06 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 7.07 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 7.08 -1T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 7.09 -1.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 8.01 -2T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 8.02 -2.5T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 8.03 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 8.04 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 8.05 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 8.06 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 8.07 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 9.01 -3T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 9.02 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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GENE THEORY

CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT

Project Name:	Biolegend CP-2	NRCC-PRF-01-E	Page 99 of 127
Project Address:	Terman Court San Diego 92121	Calculation Date/Time:	09:44, Sat, Aug 05, 2017
Compliance Scope:	NewComplete	Input File Name:	BioLegend CP-2 (Lighting) - Fixed Copy.cibd16x

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* **§ RA4**

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Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECAM	Pass	Fail
SSFC 4.3A/4.3B	1	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 7.03 -0.75T	1	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 8.08 -3/4T	1	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 10.04 -0.75T	1	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.12 -0.75T (14.13)	1	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.13 -0.75T (14.14)	1	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

Project Name:	Biolegend CP-2	NRCC-PRF-01-E	Page 98 of 127
Project Address:	Terman Court San Diego 92121	Calculation Date/Time:	09:44, Sat, Aug 05, 2017
Compliance Scope:	NewComplete	Input File Name:	BioLegend CP-2 (Lighting) - Fixed Copy.cibd16x

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* **§ RA4**

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Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECAM	Pass	Fail
FC 14.04ABCD -2T	4	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.05 -2T (14.06)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.06 -3T (14.07)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.07 -3T (14.08)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.08 -3T (14.09)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.09 -3T (14.10)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.10 -2.5T (14.11)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.11 -1.5T (14.12)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
SSFC 4.1	1	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

Project Name:	Biolegend CP-2	NRCC-PRF-01-E	Page 97 of 127
Project Address:	Terman Court San Diego 92121	Calculation Date/Time:	09:44, Sat, Aug 05, 2017
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Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECAM	Pass	Fail
FC 13.04 -2T (13.05)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 13.05 -4T (13.06)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 13.06 -1.5T (13.07)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 13.07 -1.5T (13.08)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 13.08 -1.5T (13.09)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 13.09 -1.5T (13.10)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 13.10 -2T (14.05)	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.01 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.02 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐
FC 14.03 -4T	1	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL ENV-MM

Project Name: *BioLegend CP-2* Date: *8/5/2017*

DESCRIPTION

Building Envelope Measures:

§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.
§110.8(g):	Heated slab floors shall be insulated according to the requirements in Table 110.8-A.
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.^{2} of window area, 0.3 cfm/ft.^{2} of door area for residential doors, 0.3 cfm/ft.^{2} of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft.^{2} for nonresidential double doors (swinging).
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§110.6(a) :	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).
§120.7(a):	The opaque portions of the roof/ceiling that separates conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows: **Metal Building-** The weighted average U-factor of the roof assembly shall not exceed 0.098. **Wood Framed and Others-** The weighted average U-factor of the roof assembly shall not exceed 0.075.
§120.7(b):	The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor as follows: **Metal Building-** The weighted average U-factor of the wall assembly shall not exceed 0.113. **Metal Framed-** The weighted average U-factor of the wall assembly shall not exceed 0.151. **Light Mass Walls-** A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440. **Heavy Mass Walls-** An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690. **Wood Framed and Others-** The weighted average U-factor of the wall assembly shall not exceed 0.110. **Spandrel Panels and Opaque Curtain Wall-** The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280. **Demising Walls-** The opaque portions of framed demising walls shall meet the requirements of Item A or B below: A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099. B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.
§120.7(c):	The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows: **Raised Mass Floors-** Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.269. **Other Floors-**The weighted average U-factor of the floor assembly shall not exceed 0.071.

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GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

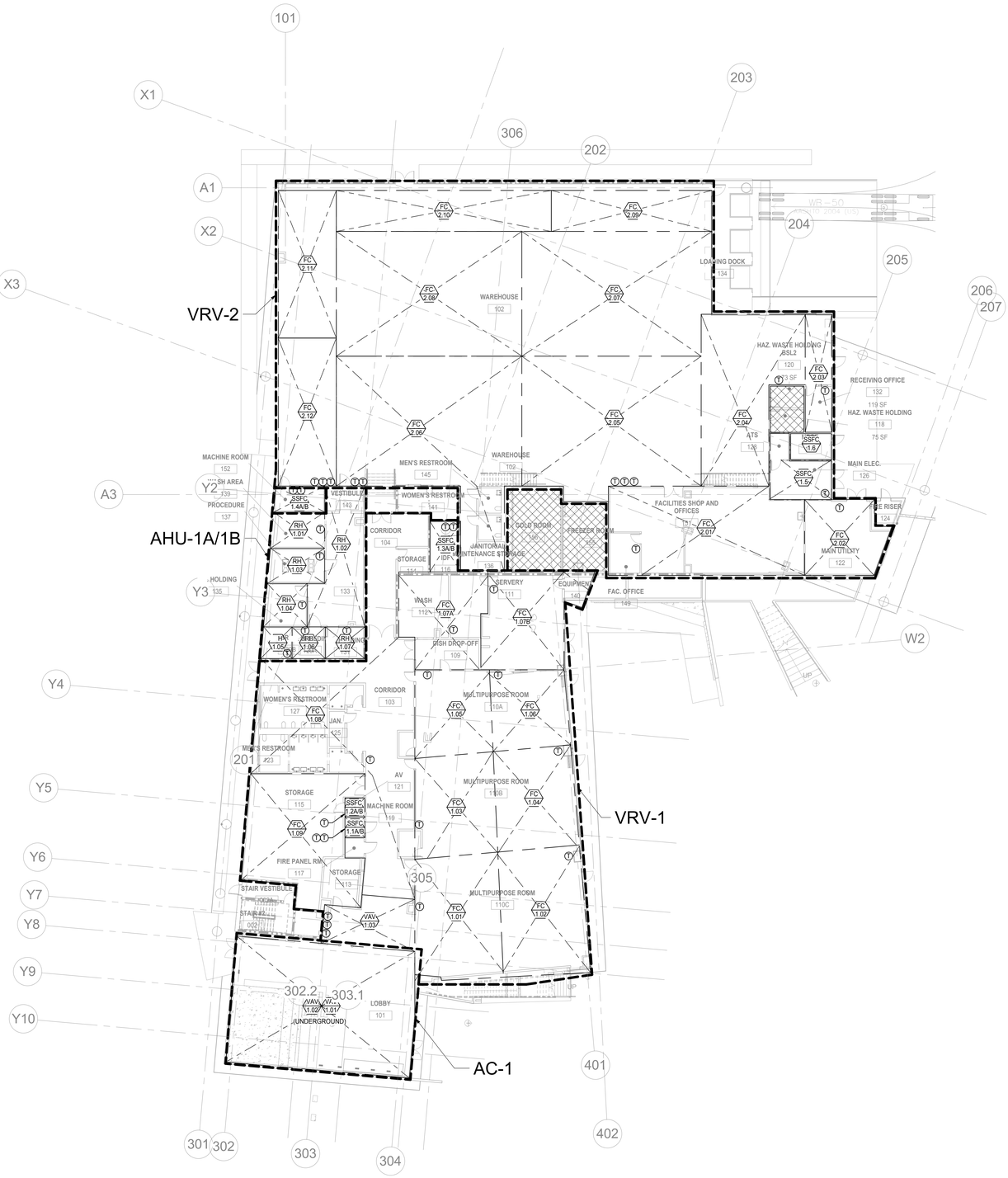
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
TITLE 24

Sheet No.
2M-013

8/7/2017 2:38:15 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THESE DRAWINGS SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT.



SHEET NOTES

1. xxx

GENERAL NOTES

1. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS ARE SHOWN FOR GENERAL PLACEMENT. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. FOR THERMOSTAT GENERAL PLACEMENT REFER TO 1/2M-501.

1 **MECHANICAL ZONING PLAN - LEVEL 01-Z2**

1/16" = 1'-0"

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL ZONING PLAN - LEVEL 01

Sheet No.
2M-101

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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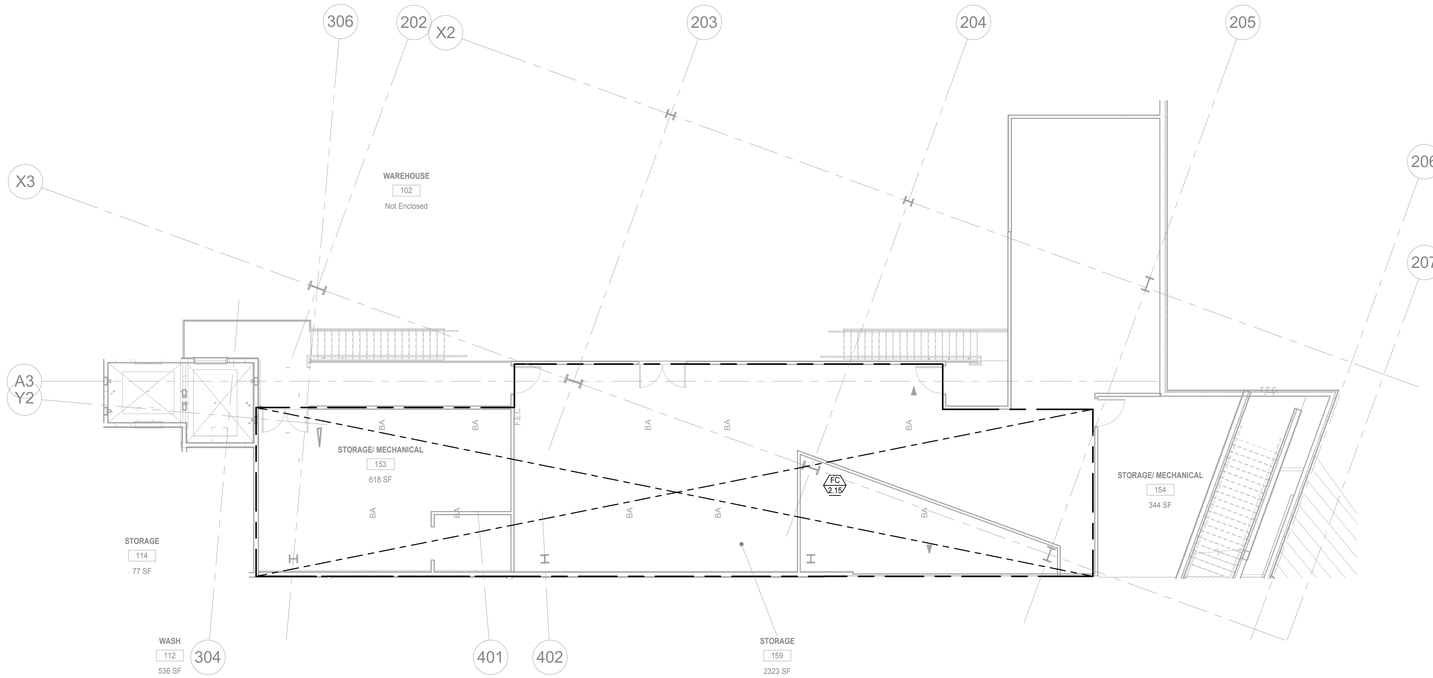


SHEET NOTES

1. xxx

GENERAL NOTES

1. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS ARE SHOWN FOR GENERAL PLACEMENT. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. FOR THERMOSTAT GENERAL PLACEMENT REFER TO 1/2M-501.

1 **MECHANICAL ZONING PLAN - MEZZANINE**

1/8" = 1'-0"

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

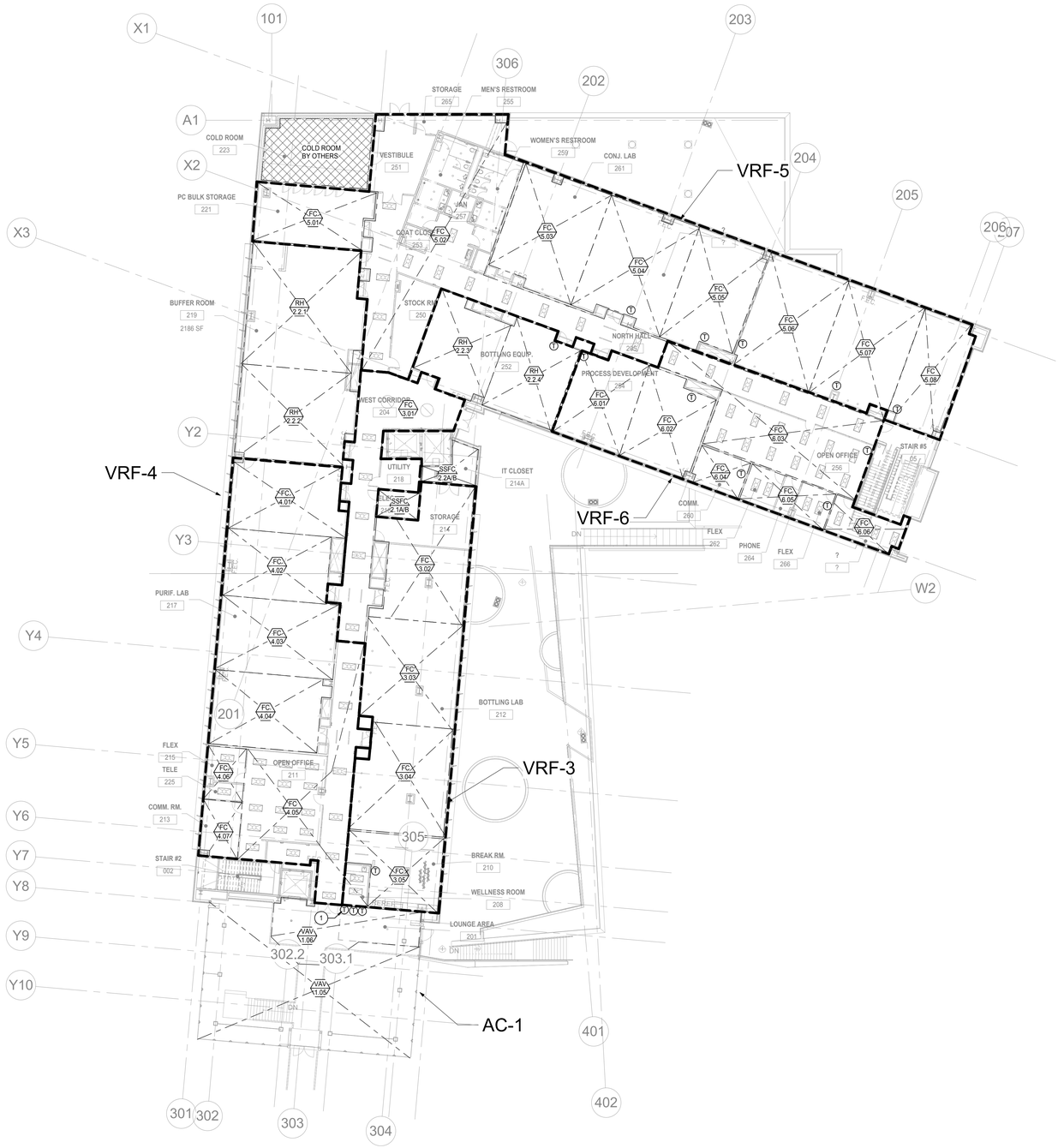
Sheet Title

MECHANICAL ZONING PLAN - MEZZANINE LEVEL

Sheet No.

2M-102

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



SHEET NOTES

1. VAV 1.07 T-STAT LOCATED ON SECOND FLOOR. REFER TO 2M-104 FOR VAV ZONING BOUNDARIES.

GENERAL NOTES

1. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS ARE SHOWN FOR GENERAL PLACEMENT. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. FOR THERMOSTAT GENERAL PLACEMENT REFER TO 1/2M-501.

1 **MECHANICAL ZONING PLAN - LEVEL 02-Z2**

/ 1/16" = 1'-0"

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GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

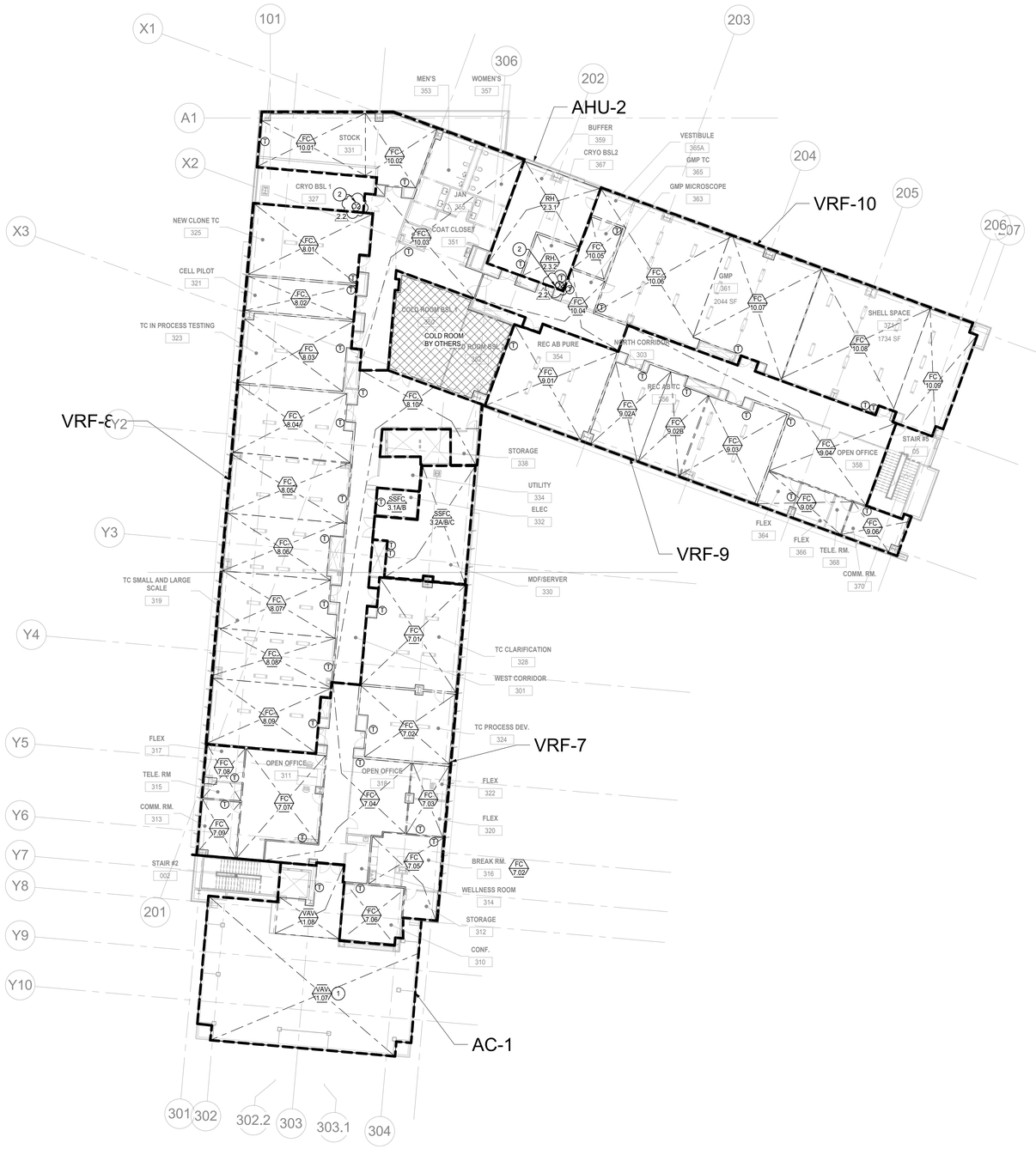
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL ZONING PLAN - LEVEL 02

Sheet No.
2M-103

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



SHEET NOTES

1. VAV 1.07 T-STAT LOCATED ON SECOND FLOOR. REFER TO 2M-103 FOR LOCATION.
2. PROVIDE WITH O2 SENSOR. REFER TO 2/2M-408 FOR CONTROLS SCHEMATIC.

2.2

GENERAL NOTES

1. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS ARE SHOWN FOR GENERAL PLACEMENT. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. FOR THERMOSTAT GENERAL PLACEMENT REFER TO 1/2M-501.

1 **MECHANICAL ZONING PLAN - LEVEL 03-Z2**

1/16" = 1'-0"

N

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL ZONING PLAN - LEVEL 03

Sheet No.

2M-104

10/2/2017 3:02:17 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT



SHEET NOTES

1. xxx

GENERAL NOTES

1. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS ARE SHOWN FOR GENERAL PLACEMENT. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. FOR THERMOSTAT GENERAL PLACEMENT REFER TO 1/2M-501.

1 **MECHANICAL ZONING PLAN - LEVEL 04-Z2**

/ 1/16" = 1'-0"

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL ZONING PLAN - LEVEL 04

Sheet No.
2M-105

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

8/7/2017 2:38:30 PM
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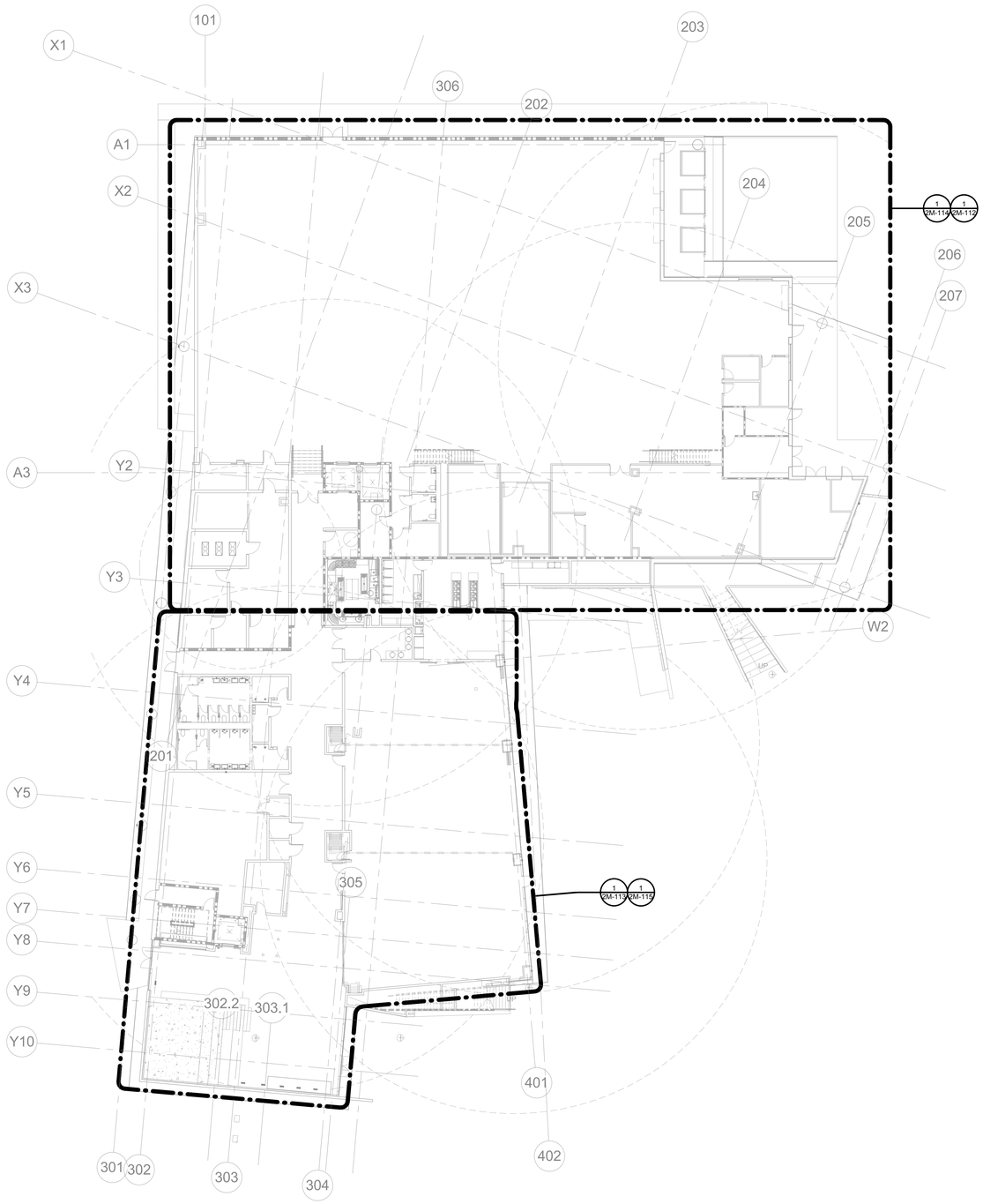

SHEET NOTES

1. xxx

GENERAL NOTES

1. XXX

1 **MECHANICAL OVERALL FLOOR PLAN - LEVEL 01-Z2**

1/16" = 1'-0"

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL OVERALL FLOOR PLAN - LEVEL 01

Sheet No.

2M-111

8/7/2017 2:38:31 PM
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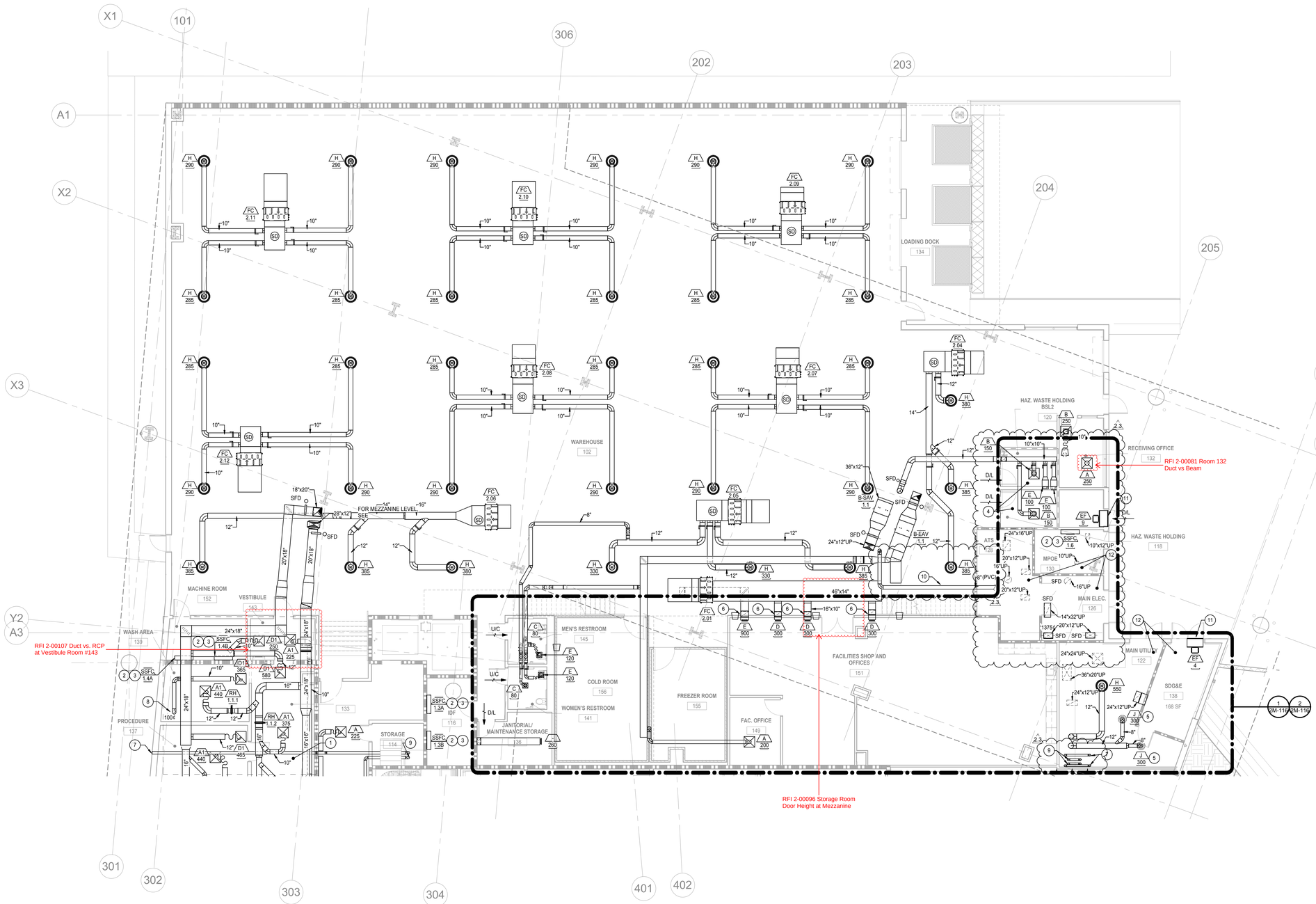

1 MECHANICAL FLOOR PLAN - LEVEL 01-Z2 - PART A - DUCTWORK

1/2M-111 1/8" = 1'-0"

N

SHEET NOTES

1. HEATING COILS, DAMPERS, AND DUCTWROK LOCATED ON ACCESS PLATFORM ABOVE SPACE.
2. EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE COORDINATED WITH FINAL EQUIPMENT LAYOUT.
3. PIPING (REFRIGERANT, PLUMBING, AND HYDRONIC) AND CONDENSING EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE PROVIDED WITH GALVANIZED STEEL DRAIN PANS. DRAIN PANS SHALL BE INSTALLED WITH WATER DETECTION SENSORS CONNECTED TO THE BUILDING MANAGEMENT SYSTEM.
4. HAZMAT STORAGE. PROVIDE HIGH AND LOW EXHAUST INTAKES. LOW EXHAUST INTAKES TO BE ROUTED THRU THE WALL AND LOCATED 12-INCHES ABOVE FINISHED FLOOR.
5. TURBO NOZZLE SUPPLY DIFFUSER LOCATED IN UTILITY ROOM. AIRFLOW STREAM TO BE DIRECTED AT AIR COMPRESSOR MOTOR AND VACUUM PUMP HEAT EXCHANGER (INLET)
6. FC-2.01 SUPPLY AND RETURN DIFFUSERS ROUTED DOWN WALL TO FIRST FLOOR SPACE BELOW MEZZANINE
7. PLUMBING WATER HEATER 6" PVC AIR INTAKE DUCT. ROUTE THRU SIDE WALL TERMINATE WITH VENT CAP.
8. 8" EXHAUST DUCT DOWN. PROVIDE CAGE RACK THIMBLED CONNECTION AT CEILING. ALLENTOWN 6-4 INCH THIMBLE OR EQUAL.
9. PLUMBING WATER HEATER 4" PVC DIRECT VENT. PROVIDE WITH SEPARATE ENCLOSURE OR FIRE WRAP.
10. PLUMBING WATER HEATER 8" PVC DIRECT VENT. ROUTE FLUE VENT UP THRU ROOF TO EXF-1. PROVIDE WITH SEPARATE ENCLOSURE OR FIRE WRAP.
11. EXTERIOR LOUVER. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
12. PROVIDE 1/4" STEEL MESH SCREEN FOR ALL DUCT TERMINATIONS WHERE AIR DISTRIBUTION DEVICES ARE NOT SPECIFIED.

GENERAL NOTES

1. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
2. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
3. PROVIDE INSULATED DUCTWORK WHEN LOCATED ABOVE ARCHITECTURAL CEILINGS, DUCTWORK LOCATED IN OPEN CEILING AREAS SHALL NOT BE INSULATED.
4. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL PLACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
5. CONTRACTOR SHALL PROVIDE REMOTE BALANCING DAMPERS FOR ALL BALANCING DAMPERS LOCATED OVER HARD LID CEILINGS OR WHERE THE DAMPER IS INACCESSIBLE.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.
9. MANUAL VOLUME DAMPERS SHALL BE PROVIDED AT ALL BRACH DUCT LOCATIONS AND DUCT INLET/OUTLET LOCATIONS WHERE MEASURED AIRFLOW IS REQUIRED. REFER TO SPECIFICATION FOR REQUIREMENTS.

DUCT MATERIAL SCHEDULE

APPLICATION	MATERIAL	NOTES
GENERAL SUPPLY (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL RETURN (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL BUILDING EXHAUST/RELIEF (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
FUME HOOD EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
SNORKEL/POINT OF USE EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
STEAM CAPTURE DUCT/HOOD	WELDED STAINLESS STEEL 304 (SS-304)	1 2
SUPPLY UNDERGROUND DUCT	HIGH-DENSITY POLYETHYLENE (HDPE)	1

NOTES:

1. REFER TO SPECIFICATIONS FOR COMPLETE DUCT MATERIAL REQUIREMENTS.
2. WET EXHAUST SYSTEMS SHALL BE SLOPED TOWARD INTAKE HOOD/GRILLE/OPENING. WHERE LOW POINTS ARE CREATED IN DUCTWORK DRAINS SHALL BE ADDED AND ROUTED TO AN APPROVED RECEPTOR.
3. WET EXHAUST DUCT SYSTEMS SHALL BE PROVIDED WITH BOTTOM JUSTIFIED ECCENTRIC DUCT FITTINGS AND SLOPED PER NOTE-2 ABOVE.

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 01 - PART A - DUCTWORK

2M-112

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/7/2017 9:16:56 AM
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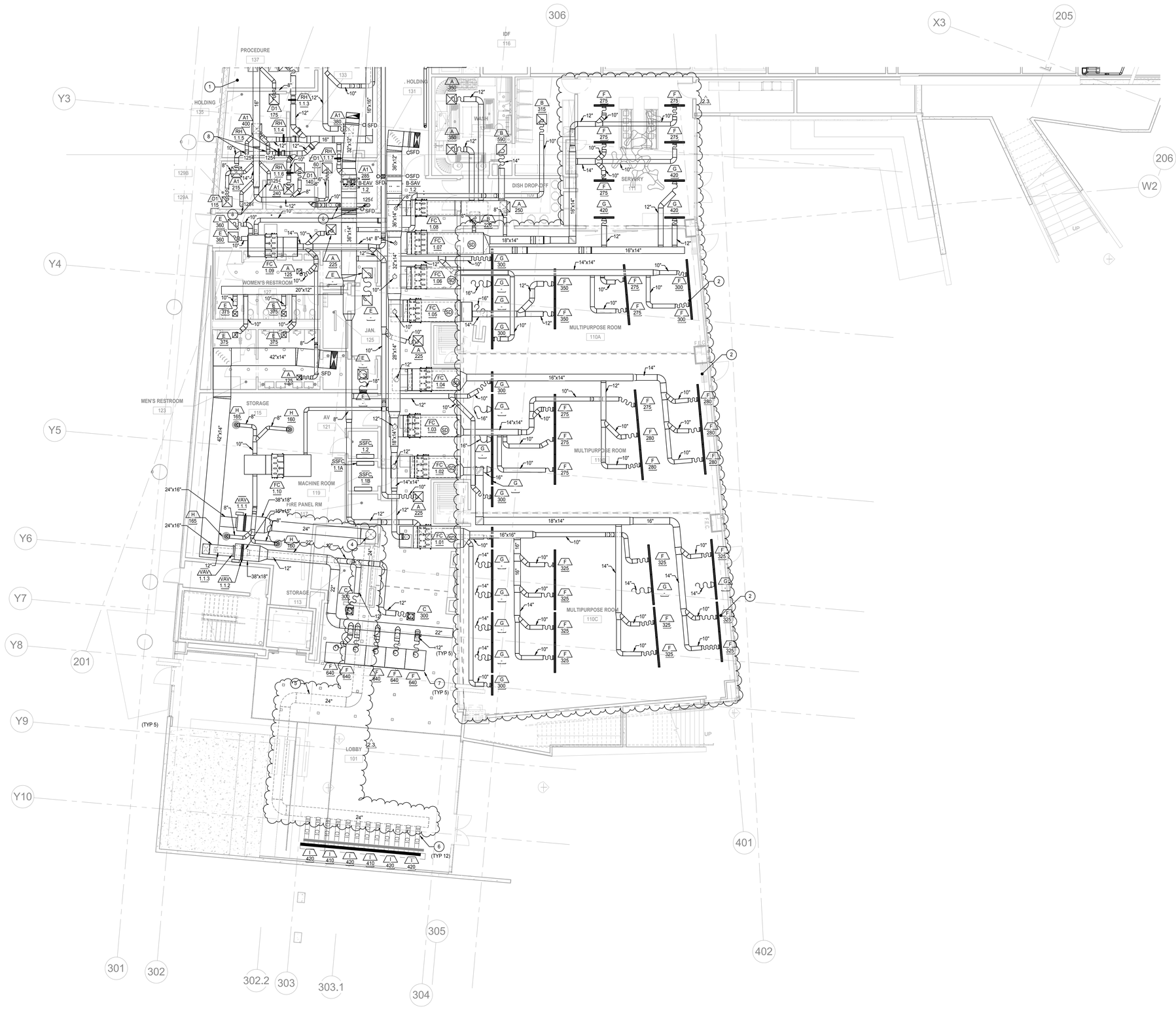

1 MECHANICAL FLOOR PLAN - LEVEL 01-Z2 - PART B - DUCTWORK

1/2M-111 | 1/8" = 1'-0"

N

SHEET NOTES

1. HEATING COILS, DAMPERS, AND DUCTWORK LOCATED ON ACCESS PLATFORM ABOVE SPACE.
2. MULTIPURPOSE ROOM CEILING DIFFUSERS AND GRILLES TO BE DETERMINED. CONTRACTOR SHALL PROVIDE PRICING FOR CUSTOM SPECIALIZED AIR DISTRIBUTION DEVICES.
3. HVAC "DISABLE COOLING" SWITCH LOCATED IN THE MULTIPURPOSE ROOM EXTERIOR DOOR AND OPERABLE WINDOWS. PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY WINDOW CONTRACTOR. REFER TO CONTROLS PLANS FOR DETAILS.
4. 22" SUPPLY AIR DUCTS DOWN THRU GRADE TO SERVE ATRIUM SPACE.
5. 22" PRE-MANUFACTURED UNDERGROUND SUPPLY AIR DUCTS. REFER TO 8/2M-502 FOR DETAILS.
6. 10" PRE-MANUFACTURED UNDERGROUND SUPPLY AIR DUCTS TO SERVE FLOOR GRILLES. REFER TO 9/2M-502 FOR DETAILS.
7. LINEAR DIFFUSER MOUNTED ON VERTICAL FACE OF WALL.
8. 8" EXHAUST DUCT DOWN. PROVIDE CAGE RACK THIMBLED CONNECTION AT CEILING. ALLENTOWN 6-4 INCH THIMBLE OR EQUAL.

DUCT MATERIAL SCHEDULE

APPLICATION	MATERIAL	NOTES
GENERAL SUPPLY (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL RETURN (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL BUILDING EXHAUST/RELIEF (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
FUME HOOD EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
SNORKEL/POINT OF USE EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
STEAM CAPTURE DUCT/HOOD	WELDED STAINLESS STEEL 304 (SS-304)	1 2
SUPPLY UNDERGROUND DUCT	HIGH-DENSITY POLYETHYLENE (HDPE)	1

NOTES:

1. REFER TO SPECIFICATIONS FOR COMPLETE DUCT MATERIAL REQUIREMENTS.
2. WET EXHAUST SYSTEMS SHALL BE SLOPED TOWARD INTAKE HOOD/GRILLE/OPENING. WHERE LOW POINTS ARE CREATED IN DUCTWORK DRAINS SHALL BE ADDED AND ROUTED TO AN APPROVED RECEPTOR.
3. WET EXHAUST DUCT SYSTEMS SHALL BE PROVIDED WITH BOTTOM JUSTIFIED ECCENTRIC DUCT FITTINGS AND SLOPED PER NOTE-2 ABOVE.

GENERAL NOTES

1. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
2. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
3. PROVIDE INSULATED DUCTWORK WHEN LOCATED ABOVE ARCHITECTURAL CEILINGS. DUCTWORK LOCATED IN OPEN CEILING AREAS SHALL NOT BE INSULATED.
4. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL PLACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
5. CONTRACTOR SHALL PROVIDE REMOTE BALANCING DAMPERS FOR ALL BALANCING DAMPERS LOCATED OVER HARD LID CEILINGS OR WHERE THE DAMPER IS INACCESSIBLE.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHWON ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.
9. MANUAL VOLUME DAMPERS SHALL BE PROVIDED AT ALL BRACH DUCT LOCATIONS AND DUCT INLET/OUTLET LOCATIONS WHERE MEASURED AIRFLOW IS REQUIRED. REFER TO SPECIFICATION FOR REQUIREMENTS.

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 01 - PART B - DUCTWORK

2M-113

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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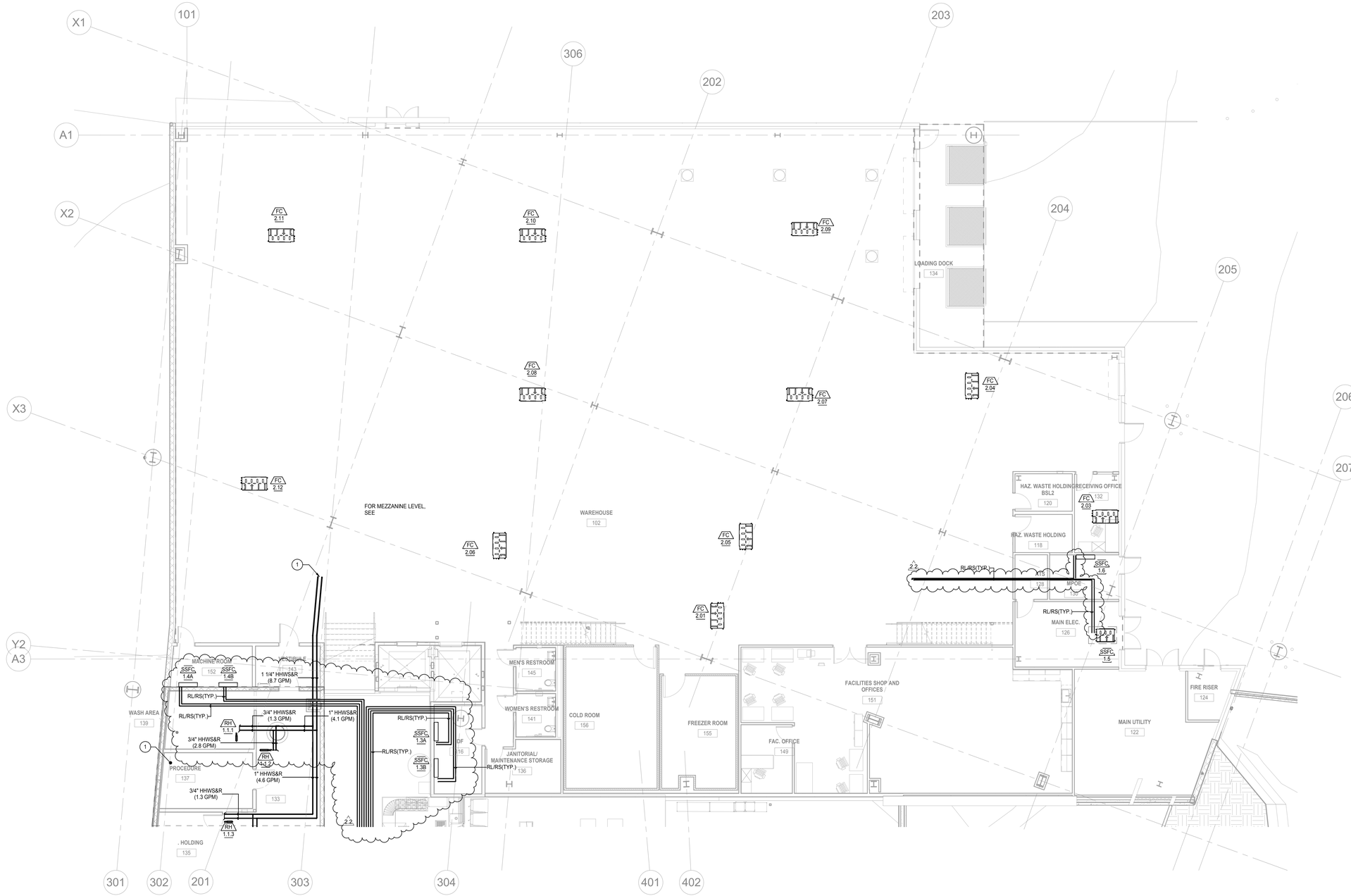

1 MECHANICAL FLOOR PLAN - LEVEL 01-Z2 - PART A - PIPING

1/2M-111 | 1/8" = 1'-0"

N

SHEET NOTES

1. ACCESS PLATFORM ABOVE SPACE.

GENERAL NOTES

1. REFRIGERANT PIPE SIZING AND ROUTING SHWON FOR PRICING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE PROPOSED PIPING SHOP DRAWING WITH VRF MANUFACTURER TO DETERMINE PIPE SIZES AND ACCESSORES REQUIRED FOR PROPER REFRIGERANT SYSTEM OPERATION.
2. CONTRACTOR TO PROVIDE ALL NECESSARY PIPING ACCESSORIES (INCLUDING EXPANSION JOINTS, TESTING PORTS, AIR VENTS, ETC) PER PROJECT SPECIFICATIONS.
3. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
4. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
5. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL PLACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 01 - PART A - PIPING

2M-114

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



SHEET NOTES

1. HEATING COILS, DAMPERS, AND DUCTWORK LOCATED ON ACCESS PLATFORM ABOVE SPACE.
2. VRV HEAT RECOVERY BOXES SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES AT INLET AND OUTLET CONNECTIONS. (TYP)
3. REFER TO VRV DIAGRAMS FOR PRELIMINARY REFRIGERANT PIPE SIZING. FINAL PIPE SIZING TO BE DETERMINED FROM CONTRACTOR DEVELOPED SHOP DRAWINGS. (TYP)

GENERAL NOTES

1. REFRIGERANT PIPE SIZING AND ROUTING SHOWN FOR PRICING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE PROPOSED PIPING SHOP DRAWING WITH VRF MANUFACTURER TO DETERMINE PIPE SIZES AND ACCESSORES REQUIRED FOR PROPER REFRIGERANT SYSTEM OPERATION.
2. CONTRACTOR TO PROVIDE ALL NECESSARY PIPING ACCESSORIES (INCLUDING EXPANSION JOINTS, TESTING PORTS, AIR VENTS, ETC) PER PROJECT SPECIFICATIONS.
3. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
4. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
5. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL PLACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.

LEGEND

DP STABILIZING VALVE. REFER TO MECHANICAL SCHEDULES.

PRESSURE INDEPENDENT BALANCING AND CONTROL VALVE (MODULATION).

1 **MECHANICAL FLOOR PLAN - LEVEL 01-Z2 - PART B - PIPING**

1/2M-111 | 1/8" = 1'-0"

N

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 01 - PART B - PIPING

2M-115

10/2/2017 11:58:47 AM
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DPR Issued Sheet 2017-10-03
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11/17/2017 9:17:01 AM
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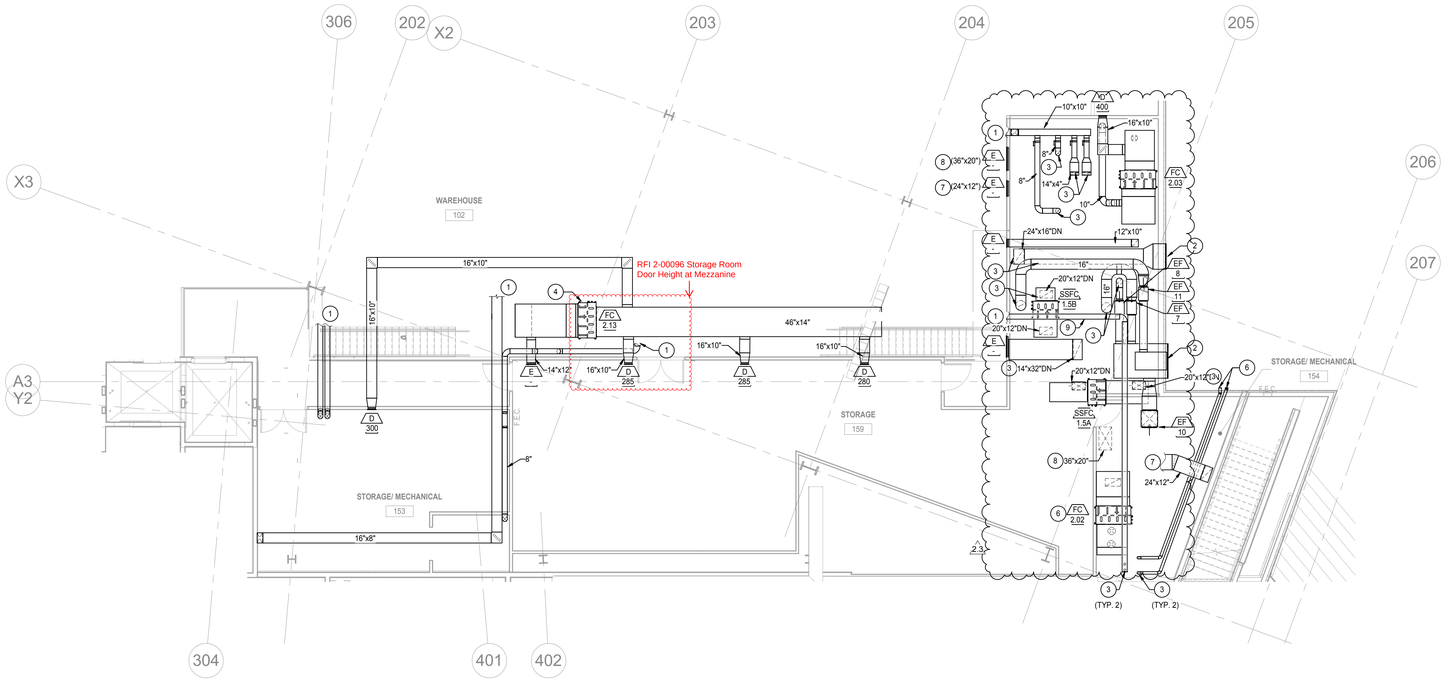
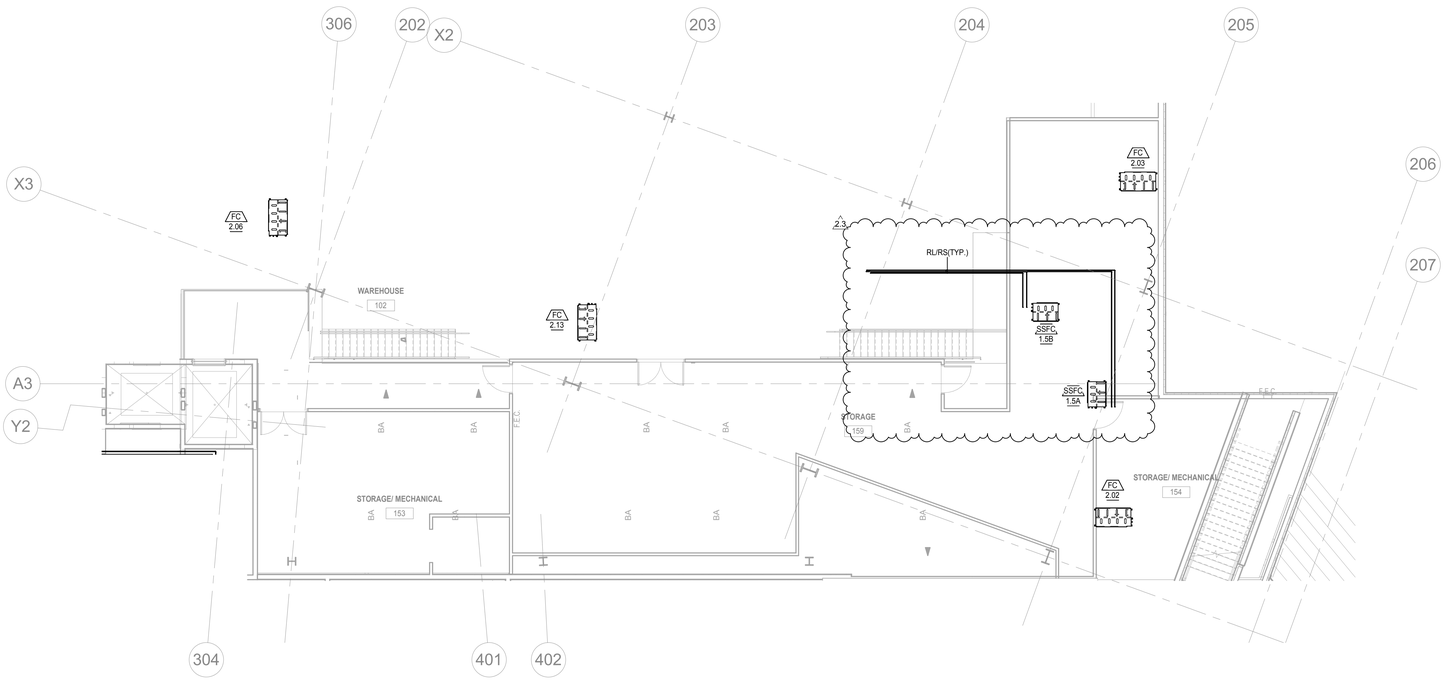


1 MECHANICAL FLOOR PLAN - MEZZANINE - PART A - DUCTWORK

1/2M-112 | 1/8" = 1'-0"

N



2 MECHANICAL FLOOR PLAN - MEZZANINE - PART A - PIPING

1/2M-112 | 1/8" = 1'-0"

N

SHEET NOTES

1. REFER TO SHEET 2M-112 FOR CONTINUATION.
2. EXTERIOR LOUVER. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
3. DUCTWORK DOWN TO SPACES BELOW MEZZANINE SPACE.
4. FANCOIL FC-2.01 LOCATED BELOW.
5. PLUMBING WATER HEATER 8" PVC DIRECT VENT. ROUTE FLUE VENT UP THRU ROOF AND TO EXF-1. PROVIDE WITH SEPARATE ENCLOSURE OR FIRE WRAP.
6. PLUMBING WATER HEATER 4" PVC AIR INTAKE DUCT. ROUTE THRU SIDE WALL TERMINATE WITH VENT CAP.
7. ROUTE 24"x12" MAKE-UP AIR DUCT UP TO MECHANICAL ROOM ON THE MEZZANINE LEVEL. ROUTE MUA DUCT TIGHT TO THE UNDERSIDE OF STRUCTURAL BEAMS. ROUTE DUCTWORK TO 24"x12" SIDEWALL GRILLE IN WAREHOUSE SPACE WALL. COMPLETE ROUTING NOT SHOWN FOR DRAWING CLARITY.
8. ROUTE 36x20" MAKE-UP AIR DUCT UP TO MECHANICAL ROOM ON THE MEZZANINE LEVEL. ROUTE MUA DUCT TIGHT TO THE UNDERSIDE OF STRUCTURAL BEAMS. ROUTE DUCTWORK TO 36x20" SIDEWALL GRILLE IN WAREHOUSE SPACE WALL. COMPLETE ROUTING NOT SHOWN FOR DRAWING CLARITY.

SHEET NOTES

1. MEZZANINE FAN COIL UNIT 2.15 SERVED BY VRV-2 ON ROOF. REFER TO 2/2M-302 FOR DETAILS.

GENERAL NOTES

1. REFRIGERANT PIPE SIZING AND ROUTING SHOWN FOR PRICING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE PROPOSED PIPING SHOP DRAWING WITH VRF MANUFACTURER TO DETERMINE PIPE SIZES AND ACCESSORES REQUIRED FOR PROPER REFRIGERANT SYSTEM OPERATION.
2. CONTRACTOR TO PROVIDE ALL NECESSARY PIPING ACCESSORIES (INCLUDING EXPANSION JOINTS, TESTING PORTS, AIR VENTS, ETC) PER PROJECT SPECIFICATIONS.
3. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
4. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
5. PROVIDE INSULATED DUCTWORK WHEN LOCATED ABOVE ARCHITECTURAL CEILINGS. DUCTWORK LOCATED IN OPEN CEILING AREAS SHALL NOT BE INSULATED.
6. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL PLACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
7. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
8. CONTRACTOR SHALL PROVIDE REMOTE BALANCING DAMPERS FOR ALL BALANCING DAMPERS LOCATED OVER HARD LID CEILINGS OR WHERE THE DAMPER IS INACCESSIBLE.
9. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
10. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

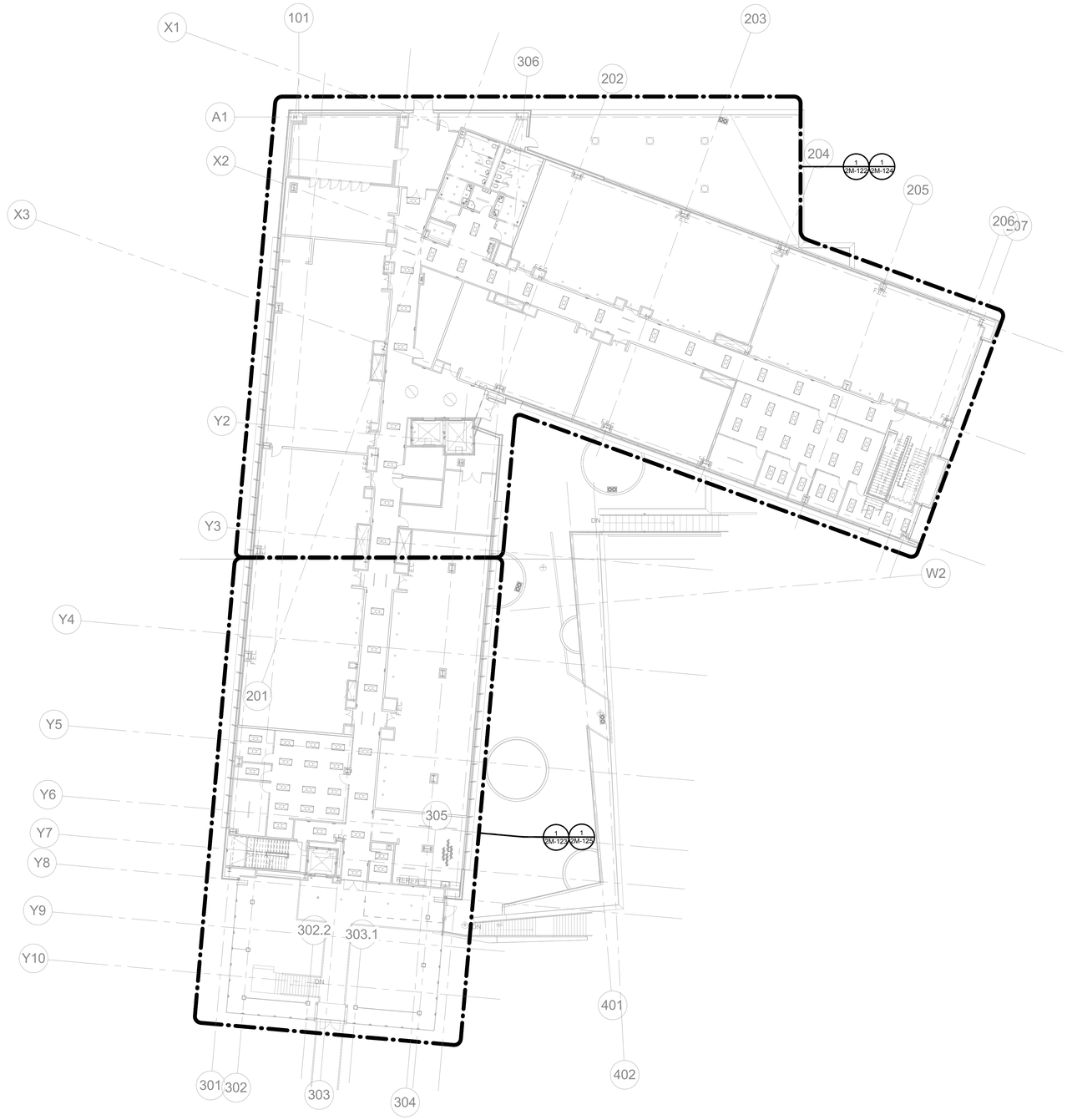
MECHANICAL FLOOR PLAN - MEZZANINE LEVEL

Sheet No.

2M-116

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

8/7/2017 2:38:55 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE, WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



SHEET NOTES

1. xxx

GENERAL NOTES

1. XXX

1 **MECHANICAL OVERALL FLOOR PLAN - LEVEL 02-Z2**

1/16" = 1'-0"

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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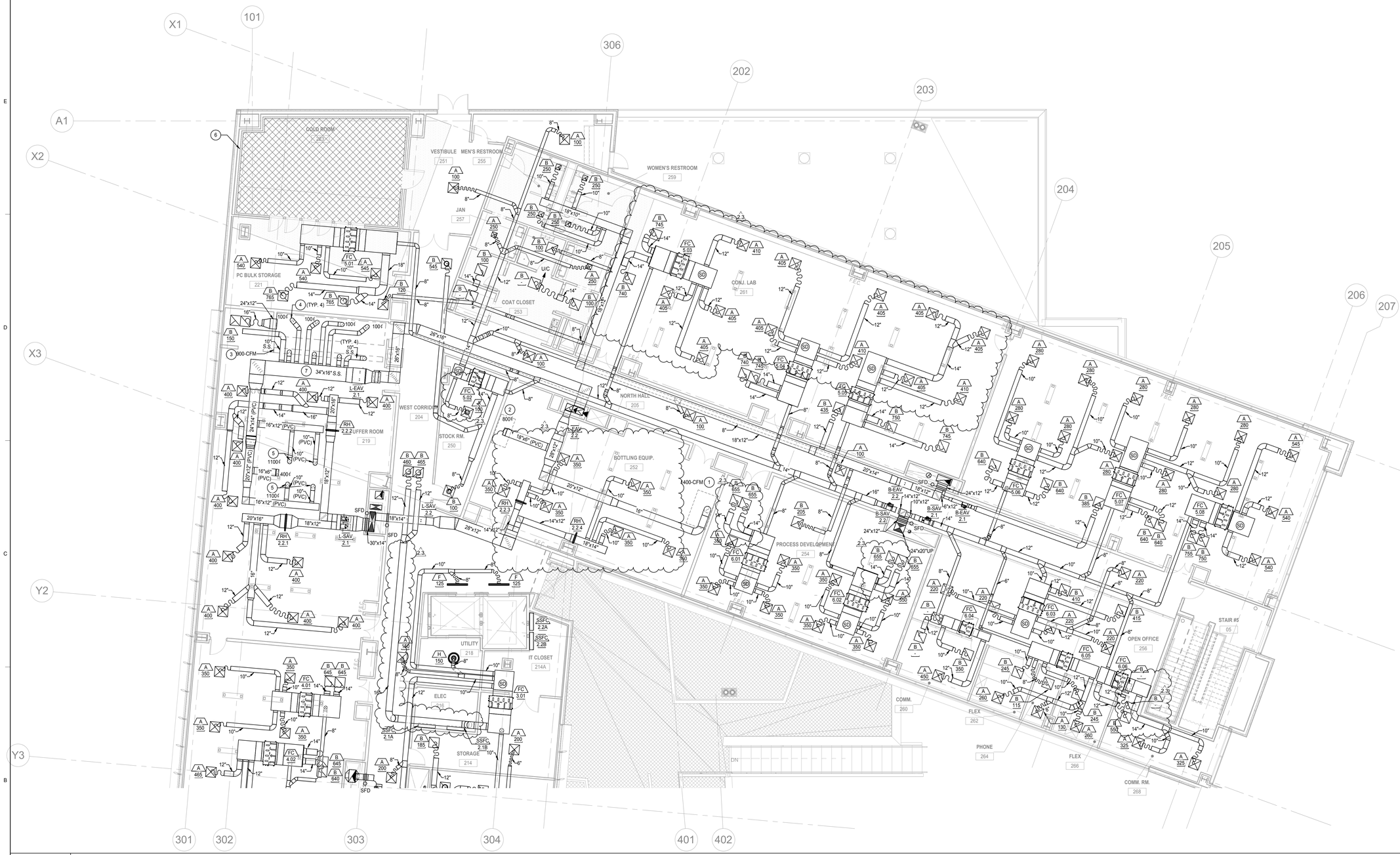
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL OVERALL FLOOR PLAN - LEVEL 02

Sheet No.
2M-121

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



1 MECHANICAL FLOOR PLAN - LEVEL 02-Z2 - PART A - DUCTWORK

1/2M-121 | 1/8" = 1'-0"

N

SHEET NOTES

1. PROVIDE GALVANIZED STEEL CAPTURE HOOD.
2. PROVIDE 6'-0" FUME HOOD WITH 12" PVC-COATED EXHAUST AIR DUCT DOWN TO FUME HOOD CONNECTION.
3. PROVIDE 304 STAINLESS STEEL WELDED STEAM EXHAUST CANOPY FOR AUTOCLAVES. SLOPE 1/4" PER LINEAR FOOT.
4. PROVIDE ENCLOSED STEAM EQUIPMENT WITH FIXED FIELD FABRICATED EXHAUST AIR DUCTS DOWN TO SNORKEL CONNECTIONS. (TYP 3)
5. PROVIDE 8'-0" FUME HOOD WITH 12" PVC-COATED EXHAUST AIR DUCT DOWN TO FUME HOOD CONNECTION. (TYP 2)
6. COLD ROOM BY OTHERS.
7. ALL DUCTWORK CONNECTED TO AUTOCLAVE EXHAUST SYSTEM TO BE 304 STAINLESS STEEL WELDED. SLOPE 1/4" PER LINEAR FOOT.

GENERAL NOTES

1. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
2. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
3. PROVIDE INSULATED DUCTWORK WHEN LOCATED ABOVE ARCHITECTURAL CEILINGS, DUCTWORK LOCATED IN OPEN CEILING AREAS SHALL NOT BE INSULATED.
4. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL PLACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
5. CONTRACTOR SHALL PROVIDE REMOTE BALANCING DAMPERS FOR ALL BALANCING DAMPERS LOCATED OVER HARD LID CEILINGS OR WHERE THE DAMPER IS INACCESSIBLE.
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7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.
9. MANUAL VOLUME DAMPERS SHALL BE PROVIDED AT ALL BRACH DUCT LOCATIONS AND DUCT INLET/OUTLET LOCATIONS WHERE MEASURED AIRFLOW IS REQUIRED. REFER TO SPECIFICATION FOR REQUIREMENTS.

EXHAUST SYSTEM NOTES

1. PRODUCT-CONVEYING HOOD AND DUCT MATERIALS SHALL BE SUITABLE FOR THE INTENDED USE AS PER SECTIONS 505.1 AND 506.1 CMC 2016.
2. PRODUCT-CONVEYING DUCTS THAT ARE SERVED BY A COMMON EXHAUST SYSTEM SHALL HANDLE COPMATIBLE MATERIALS AND SEPARATE AND DISTINCT SYSTEMS SHALL BE PROVIDED FOR INCOMPATIBLE MATERIALS. (CMC 2016 SECTION 505.0).
3. DUCTS CONVEYING EXPLOSIVE OR FLAMMABLE VAPORS, FUMES, OR DUSTS SHALL EXTEND DIRECTLY TO THE EXTERIOR OF THE BUILDING WITHOUT ENTERING OTHER SPACES AND SHALL NOT EXTEND INTO OR THROUGH DUCTS AND PLENUMS.

DUCT MATERIAL SCHEDULE

APPLICATION	MATERIAL	NOTES
GENERAL SUPPLY (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL RETURN (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL BUILDING EXHAUST/RELIEF (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
FUME HOOD EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
SNORKEL/POINT OF USE EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
STEAM CAPTURE DUCT/HOOD	WELDED STAINLESS STEEL 304 (SS-304)	1 2
SUPPLY UNDERGROUND DUCT	HIGH-DENSITY POLYETHYLENE (HDPE)	1

NOTES:

1. REFER TO SPECIFICATIONS FOR COMPLETE DUCT MATERIAL REQUIREMENTS.
2. WET EXHAUST SYSTEMS SHALL BE SLOPED TOWARD INTAKE HOOD/GRILLE/OPENING. WHERE LOW POINTS ARE CREATED IN DUCTWORK DRAINS SHALL BE ADDED AND ROUTED TO AN APPROVED RECEPTOR.
3. WET EXHAUST DUCT SYSTEMS SHALL BE PROVIDED WITH BOTTOM JUSTIFIED ECCENTRIC DUCT FITTINGS AND SLOPED PER NOTE-2 ABOVE.

11/17/2017 9:17:09 AM
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GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
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2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

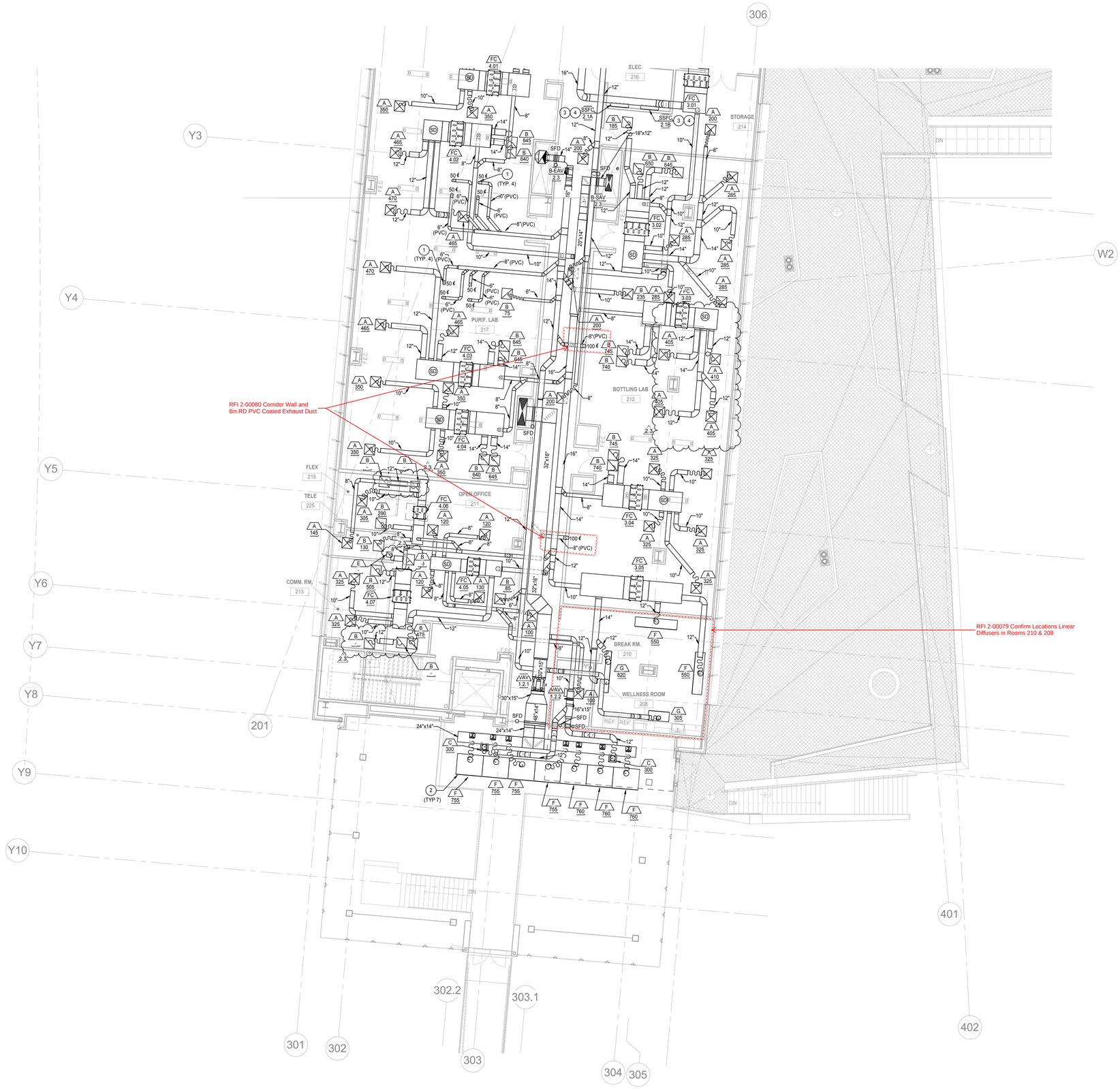
Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 02 - PART A - DUCTWORK

2M-122

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 9:17:16 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



SHEET NOTES

1. PROVIDE 6" PVC-COATED EXHAUST AIR DUCT DOWN FOR FUTURE SNORKEL CONNECTION. (TYP 4)
2. LINEAR DIFFUSER MOUNTED ON VERTICAL FACE OF WALL.
3. EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE COORDINATED WITH FINAL EQUIPMENT LAYOUT.
4. PIPING (REFRIGERANT, PLUMBING, AND HYDRONIC) AND CONDENSING EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE PROVIDED WITH GALVANIZED STEEL DRAIN PANS. DRAIN PANS SHALL BE INSTALLED WITH WATER DETECTION SENSORS CONNECTED TO THE BUILDING MANAGEMENT SYSTEM.

DUCT MATERIAL SCHEDULE

APPLICATION	MATERIAL	NOTES
GENERAL SUPPLY (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
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GENERAL BUILDING EXHAUST/RELIEF (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
FUME HOOD EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
SNORKEL/POINT OF USE EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
STEAM CAPTURE DUCT/HOOD	WELDED STAINLESS STEEL 304 (SS-304)	1 2
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GENERAL NOTES

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GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 02 - PART B - DUCTWORK

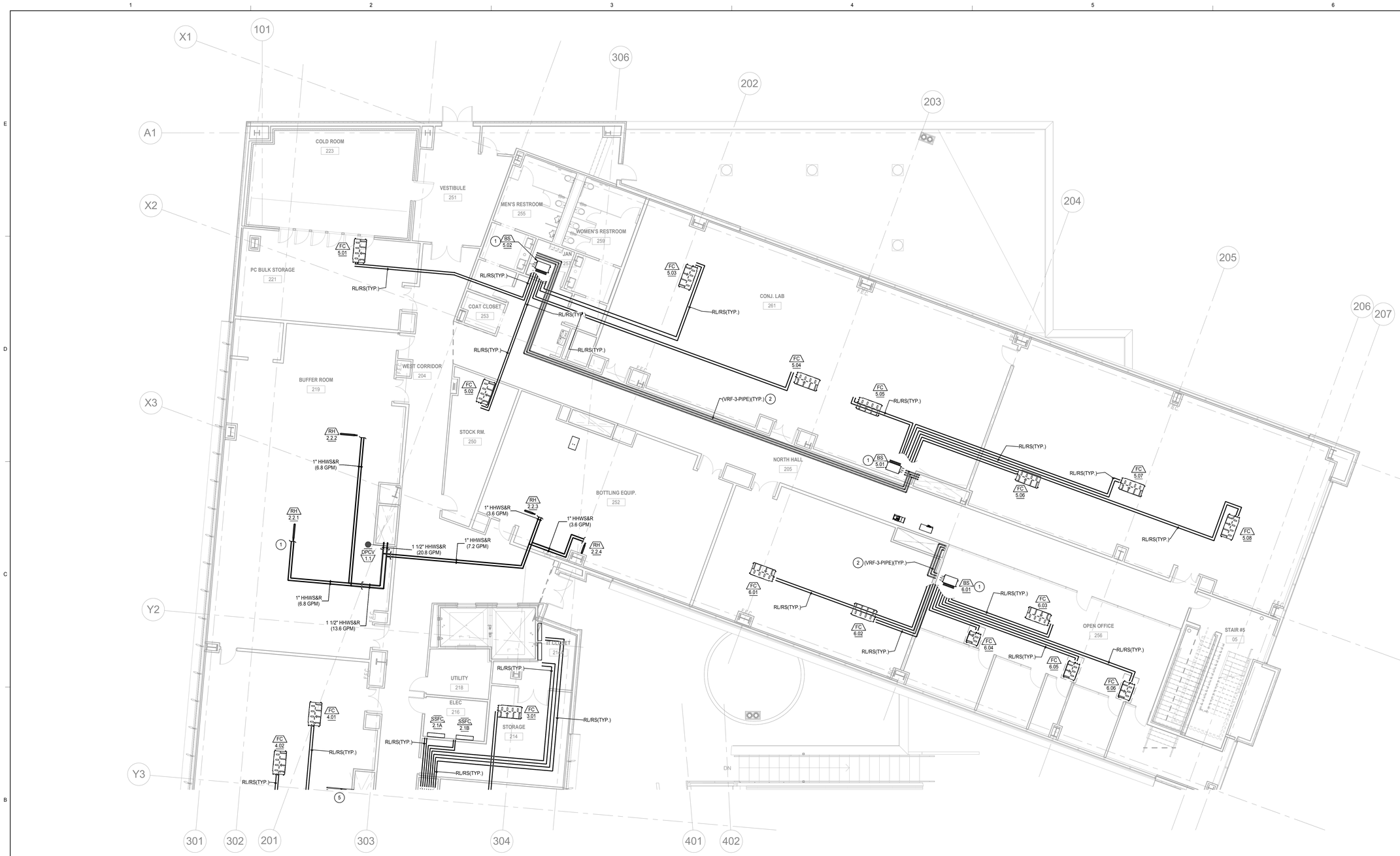
2M-123

1 **MECHANICAL FLOOR PLAN - LEVEL 02-Z2 - PART B - DUCTWORK**

1/2M-121 | 1/8" = 1'-0"

N

8/7/2017 2:39:15 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 MECHANICAL FLOOR PLAN - LEVEL 02-Z2 - PART A - PIPING

1/2M-121 | 1/8" = 1'-0"

SHEET NOTES

1. VRV HEAT RECOVERY BOXES SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES AT INLET AND OUTLET CONNECTIONS. (TYP)
2. REFER TO VRV DIAGRAMS FOR PRELIMINARY REFRIGERANT PIPE SIZING. FINAL PIPE SIZING TO BE DETERMINED FROM CONTRACTOR DEVELOPED SHOP DRAWINGS. (TYP)

GENERAL NOTES

1. REFRIGERANT PIPE SIZING AND ROUTING SHOWN FOR PRICING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE PROPOSED PIPING SHOP DRAWING WITH VRF MANUFACTURER TO DETERMINE PIPE SIZES AND ACCESSORES REQUIRED FOR PROPER REFRIGERANT SYSTEM OPERATION.
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LEGEND

- DP STABILIZING VALVE. REFER TO MECHANICAL SCHEDULES.
- PRESSURE INDEPENDENT BALANCING AND CONTROL VALVE (MODULATION).

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 02 - PART A - PIPING

2M-124

8/7/2017 2:39:22 PM
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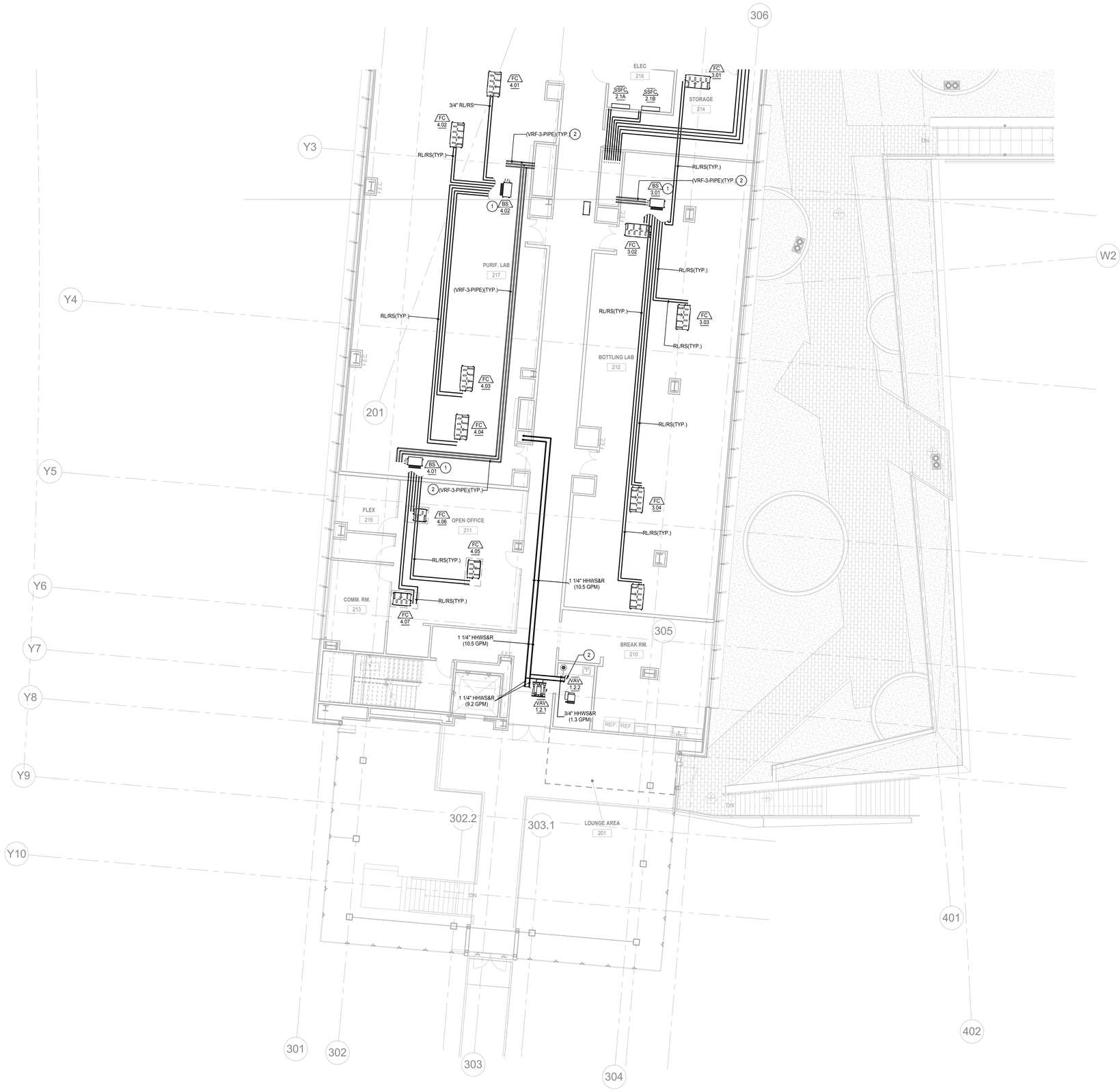

SHEET NOTES

1. VRV HEAT RECOVERY BOXES SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES AT INLET AND OUTLET CONNECTIONS. (TYP)
2. REFER TO VRV DIAGRAMS FOR PRELIMINARY REFRIGERANT PIPE SIZING. FINAL PIPE SIZING TO BE DETERMINED FROM CONTRACTOR DEVELOPED SHOP DRAWINGS. (TYP)

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LEGEND

- DP STABILIZING VALVE. REFER TO MECHANICAL SCHEDULES.
- PRESSURE INDEPENDENT BALANCING AND CONTROL VALVE (MODULATION).

1 **MECHANICAL FLOOR PLAN - LEVEL 02-Z2 - PART B - PIPING**

1/2M-121 | 1/8" = 1'-0"

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET

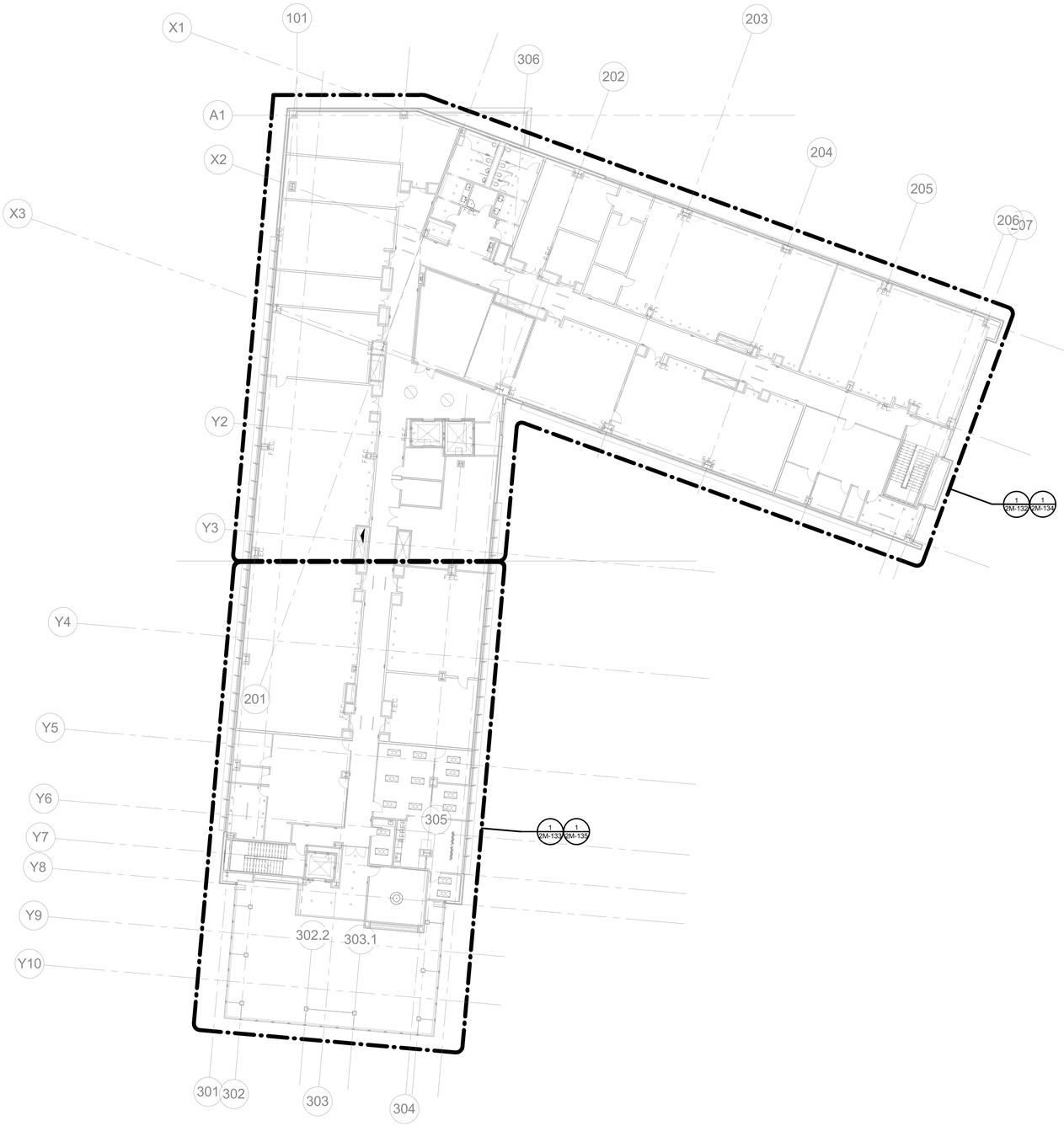
CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 02 - PART B - PIPING

2M-125

8/7/2017 2:39:28 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



SHEET NOTES

1. xxx

GENERAL NOTES

1. XXX

1 **MECHANICAL OVERALL FLOOR PLAN - LEVEL 03-Z2**

/ 1/16" = 1'-0"

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL OVERALL FLOOR PLAN - LEVEL 03

Sheet No.
2M-131

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

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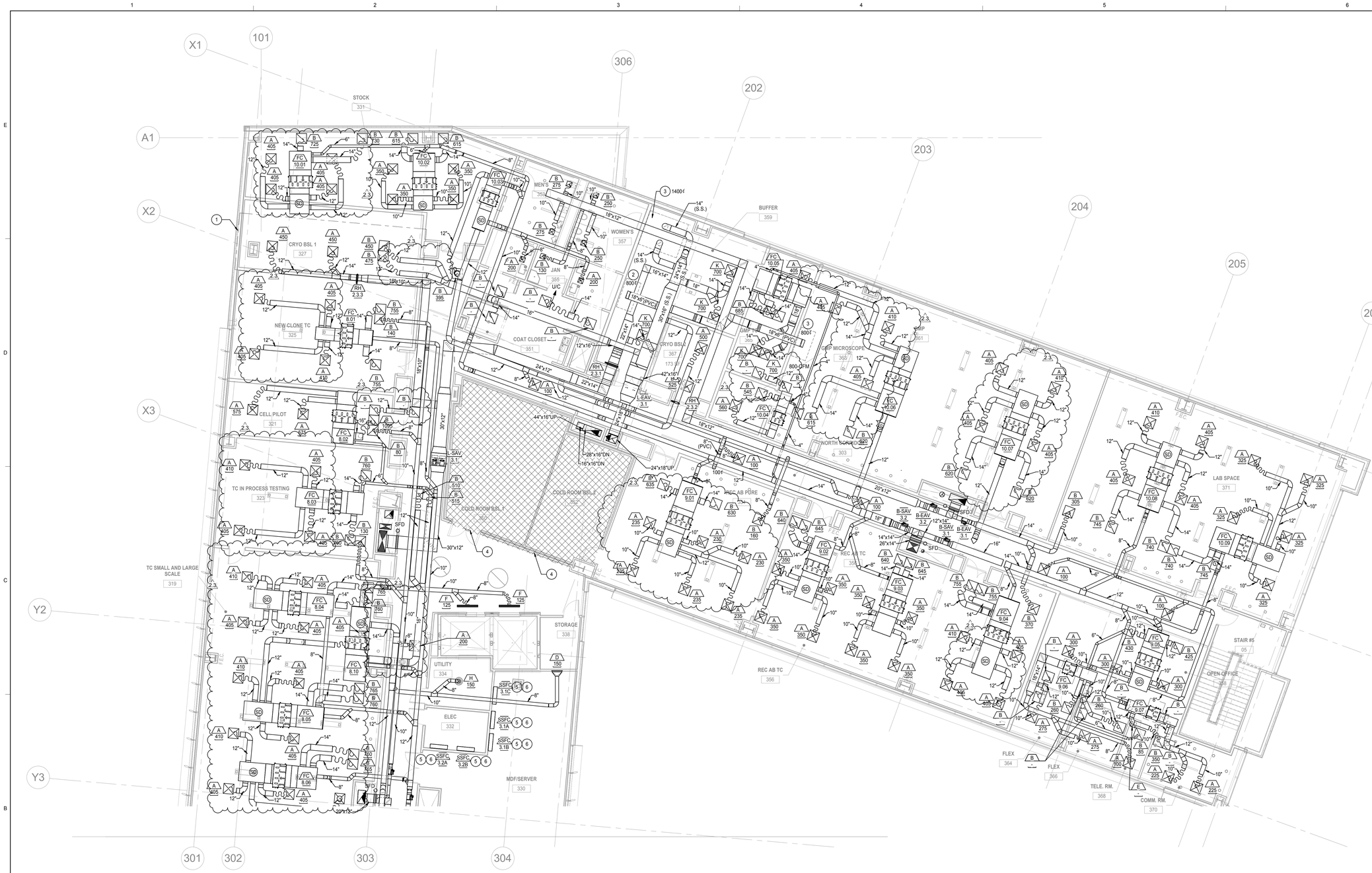

1 MECHANICAL FLOOR PLAN - LEVEL 03-Z2 - PART A - DUCTWORK

1/2M-131 | 1/8" = 1'-0"

N

SHEET NOTES

1. PROVIDE CRYO ROOM WITH O2 MONITORING.
2. PROVIDE 6'-0" FUME HOOD WITH 12" PVC-COATED EXHAUST AIR DUCT DOWN TO FUME HOOD CONNECTION.
3. PROVIDE 304 STAINLESS STEEL STEAM EXHAUST CANOPY FOR AUTOCLAVE.
4. COLD ROOM BY OTHERS.
5. EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE COORDINATED WITH FINAL EQUIPMENT LAYOUT.
6. PIPING (REFRIGERANT, PLUMBING, AND HYDRONIC) AND CONDENSING EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE PROVIDED WITH GALVANIZED STEEL DRAIN PANS. DRAIN PANS SHALL BE INSTALLED WITH WATER DETECTION SENSORS CONNECTED TO THE BUILDING MANAGEMENT SYSTEM.

GENERAL NOTES

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2. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
3. PROVIDE INSULATED DUCTWORK WHEN LOCATED ABOVE ARCHITECTURAL CEILINGS, DUCTWORK LOCATED IN OPEN CEILING AREAS SHALL NOT BE INSULATED.
4. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL PLACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
5. CONTRACTOR SHALL PROVIDE REMOTE BALANCING DAMPERS FOR ALL BALANCING DAMPERS LOCATED OVER HARD LID CEILINGS OR WHERE THE DAMPER IS INACCESSIBLE.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.
9. MANUAL VOLUME DAMPERS SHALL BE PROVIDED AT ALL BRACH DUCT LOCATIONS AND DUCT INLET/OUTLET LOCATIONS WHERE MEASURED AIRFLOW IS REQUIRED. REFER TO SPECIFICATION FOR REQUIREMENTS.

DUCT MATERIAL SCHEDULE

APPLICATION	MATERIAL	NOTES
GENERAL SUPPLY (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL RETURN (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL BUILDING EXHAUST/RELIEF (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
FUME HOOD EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
SNORKEL/POINT OF USE EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
STEAM CAPTURE DUCT/HOOD	WELDED STAINLESS STEEL 304 (SS-304)	1 2
SUPPLY UNDERGROUND DUCT	HIGH-DENSITY POLYETHYLENE (HDPE)	1

NOTES:

1. REFER TO SPECIFICATIONS FOR COMPLETE DUCT MATERIAL REQUIREMENTS.
2. WET EXHAUST SYSTEMS SHALL BE SLOPED TOWARD INTAKE HOOD/GRILLE/OPENING. WHERE LOW POINTS ARE CREATED IN DUCTWORK DRAINS SHALL BE ADDED AND ROUTED TO AN APPROVED RECEPTOR.
3. WET EXHAUST DUCT SYSTEMS SHALL BE PROVIDED WITH BOTTOM JUSTIFIED ECCENTRIC DUCT FITTINGS AND SLOPED PER NOTE-2 ABOVE.

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
	Date 4	TODO TO REVIEW
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 03 - PART A - DUCTWORK

2M-132

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



SHEET NOTES

1. LINEAR DIFFUSER MOUNTED ON VERTICAL FACE OF WALL.
2. CONFERENCE ROOM SUPPLY AND RETURN AIR GRILLES TO BE PROVIDED WITH ACOUSTICAL DUCT LINER.
3. EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE COORDINATED WITH FINAL EQUIPMENT LAYOUT.
4. PIPING (REFRIGERANT, PLUMBING, AND HYDRONIC) AND CONDENSING EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE PROVIDED WITH GALVANIZED STEEL DRAIN PANS. DRAIN PANS SHALL BE INSTALLED WITH WATER DETECTION SENSORS CONNECTED TO THE BUILDING MANAGEMENT SYSTEM.

DUCT MATERIAL SCHEDULE

APPLICATION	MATERIAL	NOTES
GENERAL SUPPLY (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL RETURN (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL BUILDING EXHAUST/RELIEF (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
FUME HOOD EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
SNORKEL/POINT OF USE EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
STEAM CAPTURE DUCT/HOOD	WELDED STAINLESS STEEL 304 (SS-304)	1 2
SUPPLY UNDERGROUND DUCT	HIGH-DENSITY POLYETHYLENE (HDPE)	1

NOTES:

1. REFER TO SPECIFICATIONS FOR COMPLETE DUCT MATERIAL REQUIREMENTS.
2. WET EXHAUST SYSTEMS SHALL BE SLOPED TOWARD INTAKE HOOD/GRILLE/OPENING. WHERE LOW POINTS ARE CREATED IN DUCTWORK DRAINS SHALL BE ADDED AND ROUTED TO AN APPROVED RECEPTOR.
3. WET EXHAUST DUCT SYSTEMS SHALL BE PROVIDED WITH BOTTOM JUSTIFIED ECCENTRIC DUCT FITTINGS AND SLOPED PER NOTE-2 ABOVE.

GENERAL NOTES

1. REFRIGERANT PIPE SIZING AND ROUTING SHOWN FOR PRICING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE PROPOSED PIPING SHOP DRAWING WITH VRF MANUFACTURER TO DETERMINE PIPE SIZES AND ACCESSORES REQUIRED FOR PROPER REFRIGERANT SYSTEM OPERATION.
2. CONTRACTOR TO PROVIDE ALL NECESSARY PIPING ACCESSORIES (INCLUDING EXPANSION JOINTS, TESTING PORTS, AIR VENTS, ETC) PER PROJECT SPECIFICATIONS.
3. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
4. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
5. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL P LACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.
9. MANUAL VOLUME DAMPERS SHALL BE PROVIDED AT ALL BRACH DUCT LOCATIONS AND DUCT INLET/OUTLET LOCATIONS WHERE MEASURED AIRFLOW IS REQUIRED. REFER TO SPECIFICATION FOR REQUIREMENTS.

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 03 - PART B - DUCTWORK

2M-133

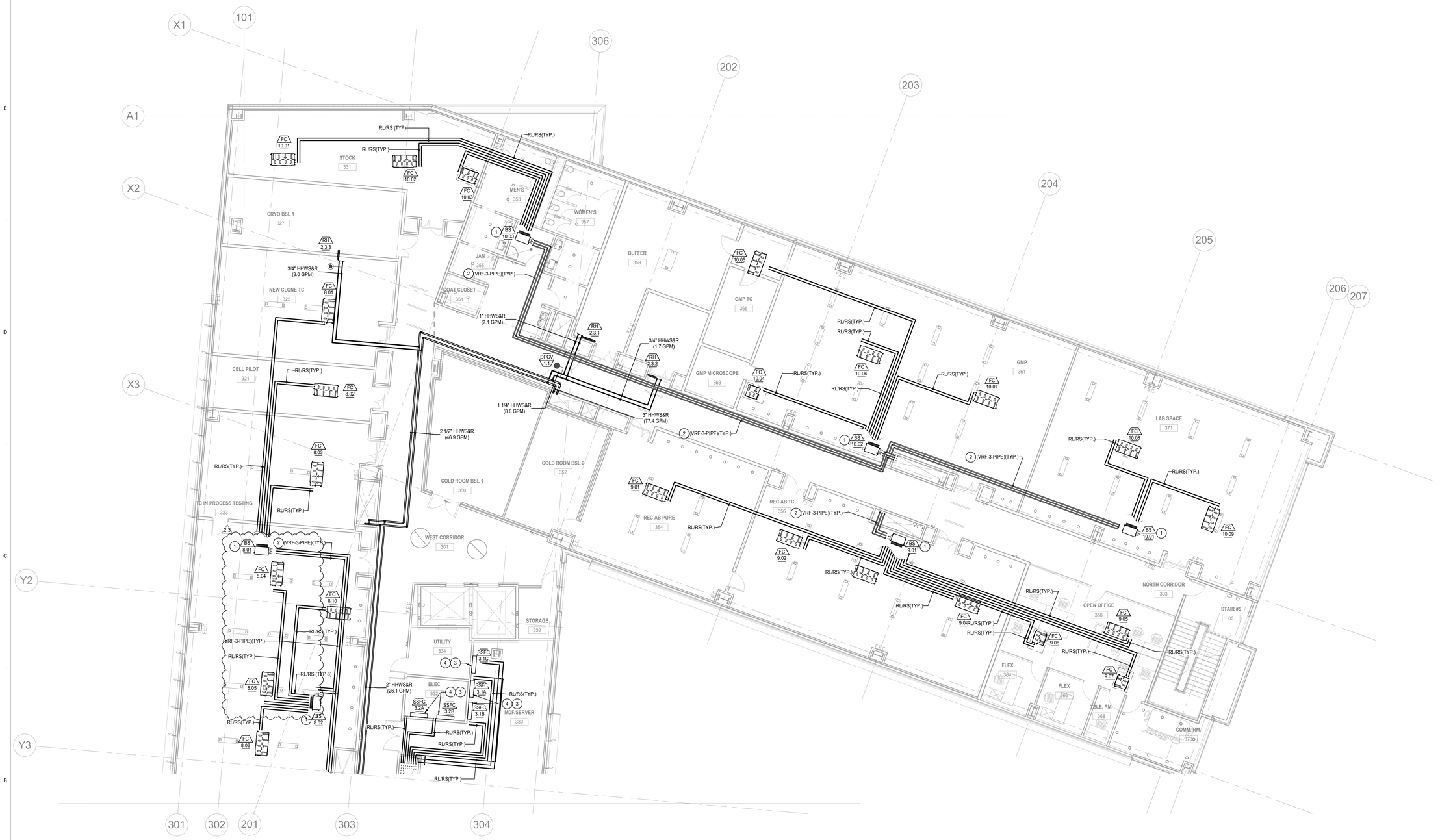
1 **MECHANICAL FLOOR PLAN - LEVEL 03-Z2 - PART B - DUCTWORK**

1/2M-131 | 1/8" = 1'-0"

N

11/7/2017 9:17:28 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

11/17/2017 9:17:36 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 MECHANICAL FLOOR PLAN - LEVEL 03-Z2 - PART A - PIPING

1/2M-131 | 1/8" = 1'-0"

N

SHEET NOTES

1. VRV HEAT RECOVERY BOXES SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES AT INLET AND OUTLET CONNECTIONS. (TYP)
2. REFER TO VRV DIAGRAMS FOR PRELIMINARY REFRIGERANT PIPE SIZING. FINAL PIPE SIZING TO BE DETERMINED FROM CONTRACTOR DEVELOPED SHOP DRAWINGS. (TYP)
3. EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE COORDINATED WITH FINAL EQUIPMENT LAYOUT.
4. PIPING (REFRIGERANT, PLUMBING, AND HYDRONIC) AND CONDENSING EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE PROVIDED WITH GALVANIZED STEEL DRAIN PANS. DRAIN PANS SHALL BE INSTALLED WITH WATER DETECTION SENSORS CONNECTED TO THE BUILDING MANAGEMENT SYSTEM.

GENERAL NOTES

1. REFRIGERANT PIPE SIZING AND ROUTING SHOWN FOR PRICING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE PROPOSED PIPING SHOP DRAWING WITH VRF MANUFACTURER TO DETERMINE PIPE SIZES AND ACCESSORES REQUIRED FOR PROPER REFRIGERANT SYSTEM OPERATION.
2. CONTRACTOR TO PROVIDE ALL NECESSARY PIPING ACCESSORIES (INCLUDING EXPANSION JOINTS, TESTING PORTS, AIR VENTS, ETC) PER PROJECT SPECIFICATIONS.
3. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
4. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
5. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL P LACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.

LEGEND

- DP STABILIZING VALVE. REFER TO MECHANICAL SCHEDULES.
- PRESSURE INDEPENDENT BALANCING AND CONTROL VALVE (MODULATION).

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 03 - PART A - PIPING

2M-134

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

8/7/2017 2:39:47 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



SHEET NOTES

1. VRV HEAT RECOVERY BOXES SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES AT INLET AND OUTLET CONNECTIONS. (TYP)
2. REFER TO VRV DIAGRAMS FOR PRELIMINARY REFRIGERANT PIPE SIZING. FINAL PIPE SIZING TO BE DETERMINED FROM CONTRACTOR DEVELOPED SHOP DRAWINGS. (TYP)
3. EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE COORDINATED WITH FINAL EQUIPMENT LAYOUT.
4. PIPING (REFRIGERANT, PLUMBING, AND HYDRONIC) AND CONDENSING EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE PROVIDED WITH GALVANIZED STEEL DRAIN PANS. DRAIN PANS SHALL BE INSTALLED WITH WATER DETECTION SENSORS CONNECTED TO THE BUILDING MANAGEMENT SYSTEM.
5. DIFFERENTIAL PRESSURE SENSOR.

GENERAL NOTES

1. REFRIGERANT PIPE SIZING AND ROUTING SHOWN FOR PRICING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE PROPOSED PIPING SHOP DRAWING WITH VRF MANUFACTURER TO DETERMINE PIPE SIZES AND ACCESSORES REQUIRED FOR PROPER REFRIGERANT SYSTEM OPERATION.
2. CONTRACTOR TO PROVIDE ALL NECESSARY PIPING ACCESSORIES (INCLUDING EXPANSION JOINTS, TESTING PORTS, AIR VENTS, ETC) PER PROJECT SPECIFICATIONS.
3. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
4. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
5. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL PLACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.

LEGEND

- DP STABILIZING VALVE. REFER TO MECHANICAL SCHEDULES.
- PRESSURE INDEPENDENT BALANCING AND CONTROL VALVE (MODULATION).

1 **MECHANICAL FLOOR PLAN - LEVEL 03-Z2 - PART B - PIPING**

1/2M-131 | 1/8" = 1'-0"

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

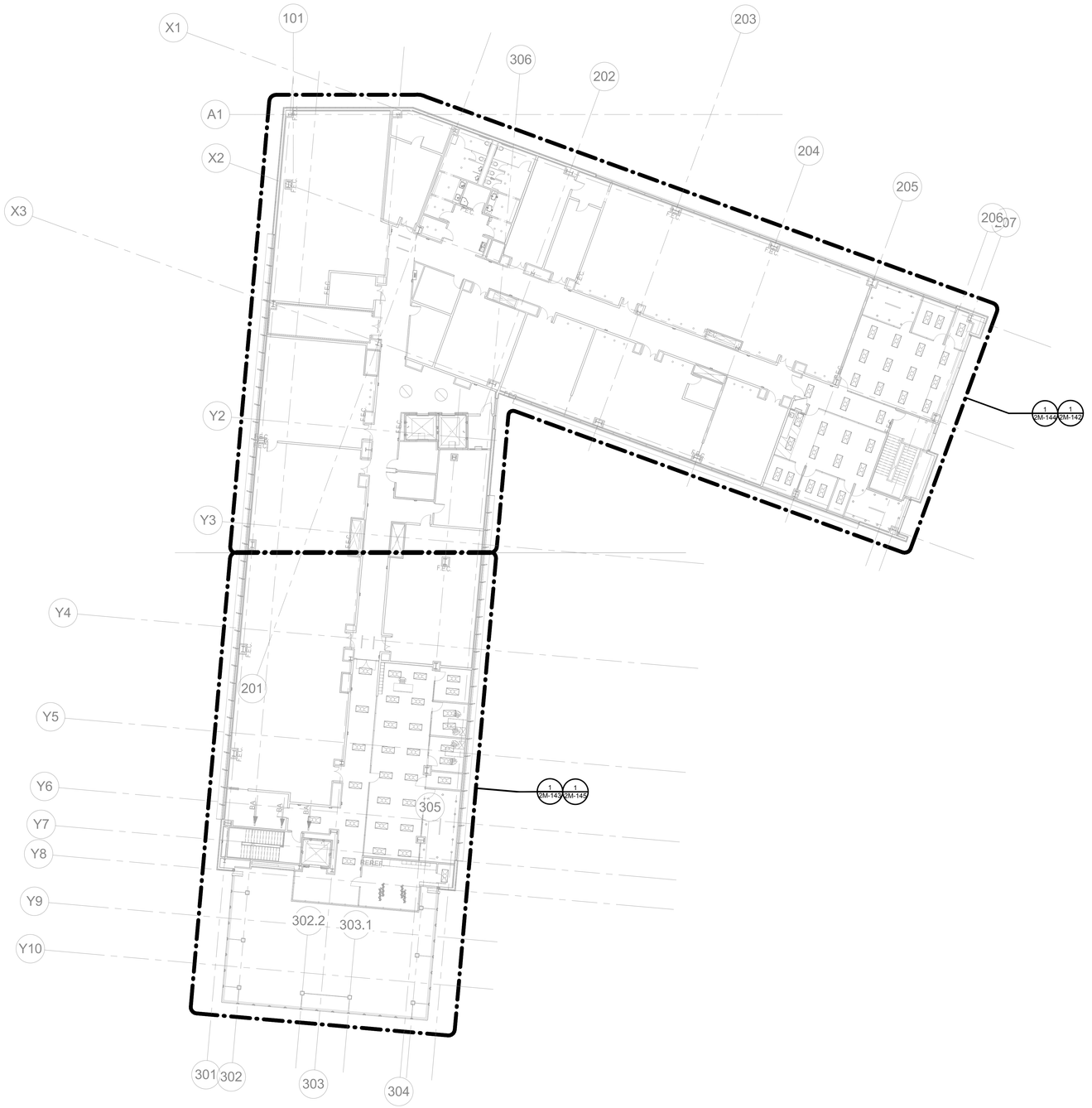
Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 03 - PART B - PIPING

2M-135

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

8/7/2017 2:39:54 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



SHEET NOTES

1. xxx

GENERAL NOTES

1. XXX

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL OVERALL FLOOR PLAN - LEVEL 04

Sheet No.

2M-141

1 **MECHANICAL OVERALL FLOOR PLAN - LEVEL 04-Z2**

1/16" = 1'-0"

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

11/17/2017 9:17:44 AM



1 MECHANICAL FLOOR PLAN - LEVEL 04-Z2 - PART A - DUCTWORK

1/2M-141 | 1/8" = 1'-0"

N

SHEET NOTES

1. CASETTE STYLE SPLIT SYSTE FAN COIL TO BE PROVIDED IN DRY ROOM 453.
2. PROVIDE 304 STAINLESS STEEL STEAM EXHAUST CANOPY FOR AUTOCLAVE.
3. PROVIDE 6'-0" FUME HOOD WITH 12" PVC-COATED EXHAUST AIR DUCT DOWN TO FUME HOOD CONNECTION.
4. PROVIDE DIFFUSERS WITH HEPA FILTRATION FOR DARK ROOM 450.
5. EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE COORDINATED WITH FINAL EQUIPMENT LAYOUT.
6. PIPING (REFRIGERANT, PLUMBING, AND HYDRONIC) AND CONDENSING EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE PROVIDED WITH GALVANIZED STEEL DRAIN PANS. DRAIN PANS SHALL BE INSTALLED WITH WATER DETECTION SENSORS CONNECTED TO THE BUILDING MANAGEMENT SYSTEM.
7. COLD ROOM BY OTHERS.

GENERAL NOTES

1. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
2. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
3. PROVIDE INSULATED DUCTWORK WHEN LOCATED ABOVE ARCHITECTURAL CEILINGS, DUCTWORK LOCATED IN OPEN CEILING AREAS SHALL NOT BE INSULATED.
4. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL PLACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
5. CONTRACTOR SHALL PROVIDE REMOTE BALANCING DAMPERS FOR ALL BALANCING DAMPERS LOCATED OVER HARD LID CEILINGS OR WHERE THE DAMPER IS INACCESSIBLE.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.
9. MANUAL VOLUME DAMPERS SHALL BE PROVIDED AT ALL BRACH DUCT LOCATIONS AND DUCT INLET/OUTLET LOCATIONS WHERE MEASURED AIRFLOW IS REQUIRED. REFER TO SPECIFICATION FOR REQUIREMENTS.

DUCT MATERIAL SCHEDULE

APPLICATION	MATERIAL	NOTES
GENERAL SUPPLY (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL RETURN (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL BUILDING EXHAUST/RELIEF (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
FUME HOOD EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
SNORKEL/POINT OF USE EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
STEAM CAPTURE DUCT/HOOD	WELDED STAINLESS STEEL 304 (SS-304)	1 2
SUPPLY UNDERGROUND DUCT	HIGH-DENSITY POLYETHYLENE (HDPE)	1

NOTES:

1. REFER TO SPECIFICATIONS FOR COMPLETE DUCT MATERIAL REQUIREMENTS.
2. WET EXHAUST SYSTEMS SHALL BE SLOPED TOWARD INTAKE HOOD/GRILLE/OPENING. WHERE LOW POINTS ARE CREATED IN DUCTWORK DRAINS SHALL BE ADDED AND ROUTED TO AN APPROVED RECEPTOR.
3. WET EXHAUST DUCT SYSTEMS SHALL BE PROVIDED WITH BOTTOM JUSTIFIED ECCENTRIC DUCT FITTINGS AND SLOPED PER NOTE-2 ABOVE.

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.3	11.20.17	ASI 2.1/IFC

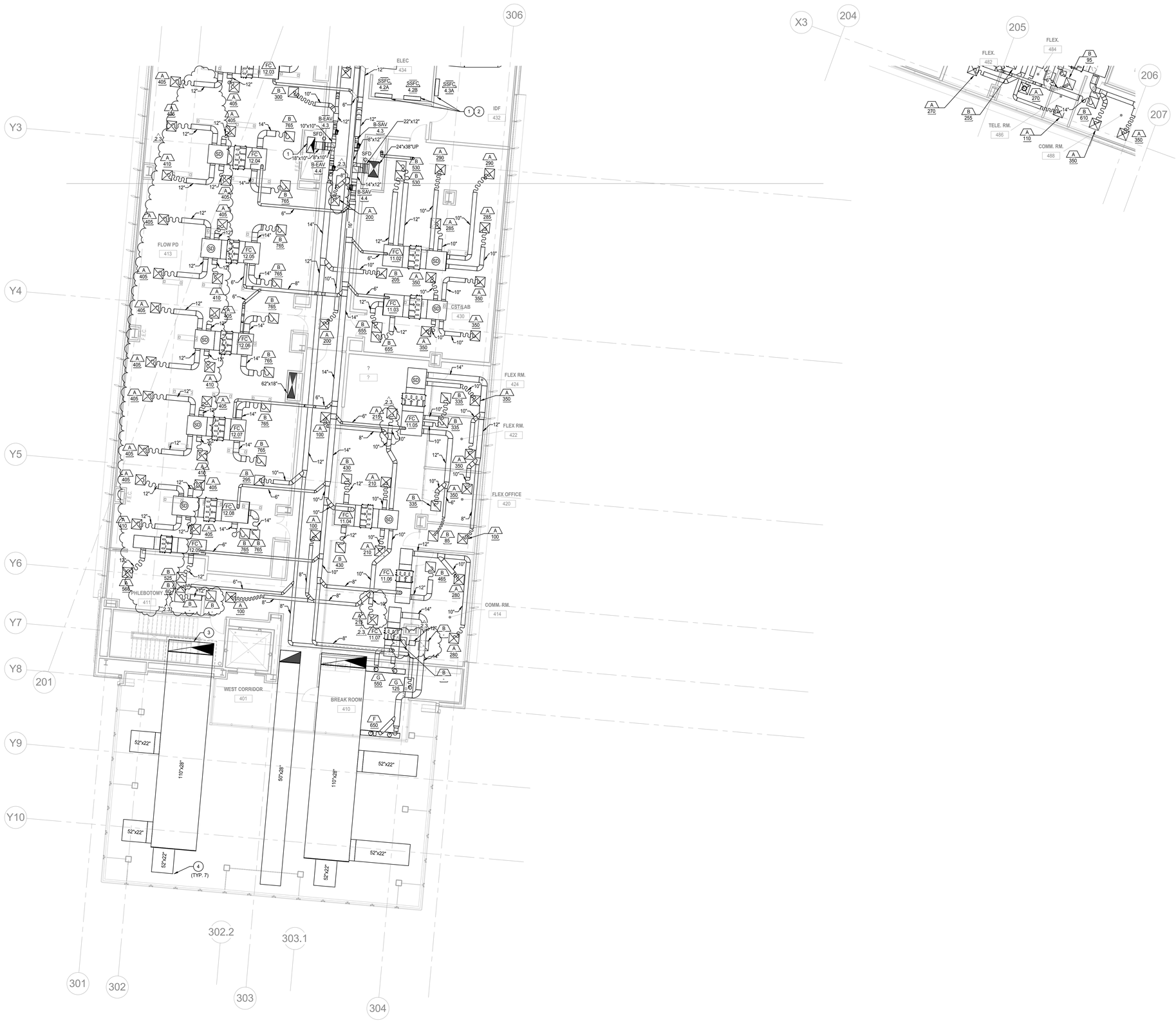
CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 04 - PART A - DUCTWORK

2M-142

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



SHEET NOTES

1. EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE COORDINATED WITH FINAL EQUIPMENT LAYOUT.
2. PIPING (REFRIGERANT, PLUMBING, AND HYDRONIC) AND CONDENSING EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE PROVIDED WITH GALVANIZED STEEL DRAIN PANS. DRAIN PANS SHALL BE INSTALLED WITH WATER DETECTION SENSORS CONNECTED TO THE BUILDING MANAGEMENT SYSTEM.
3. ATRIUM SMOKE CONTROL EXHAUST DUCT ROUTED THRU STAIRWELL IN HORIZONTAL SHAFT. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
4. ATRIUM EXHAUST AND RETURN AIR INLETS LOCATED IN VERTICAL FACE OF ATRIUM CEILING. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

DUCT MATERIAL SCHEDULE

APPLICATION	MATERIAL	NOTES
GENERAL SUPPLY (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL RETURN (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
GENERAL BUILDING EXHAUST/RELIEF (LOW AND MEDIUM PRESSURE)	GALVANIZED (G90) SHEET METAL	1
FUME HOOD EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
SNORKEL/POINT OF USE EXHAUST (LOW AND MEDIUM PRESSURE)	PVC COATED GALVANIZED (G90) SHEET METAL	1
STEAM CAPTURE DUCT/HOOD	WELDED STAINLESS STEEL 304 (SS-304)	1 2
SUPPLY UNDERGROUND DUCT	HIGH-DENSITY POLYETHYLENE (HDPE)	1

NOTES:

1. REFER TO SPECIFICATIONS FOR COMPLETE DUCT MATERIAL REQUIREMENTS.
2. WET EXHAUST SYSTEMS SHALL BE SLOPED TOWARD INTAKE HOOD/GRILLE/OPENING. WHERE LOW POINTS ARE CREATED IN DUCTWORK DRAINS SHALL BE ADDED AND ROUTED TO AN APPROVED RECEPTOR.
3. WET EXHAUST DUCT SYSTEMS SHALL BE PROVIDED WITH BOTTOM JUSTIFIED ECCENTRIC DUCT FITTINGS AND SLOPED PER NOTE-2 ABOVE.

GENERAL NOTES

1. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
2. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
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5. CONTRACTOR SHALL PROVIDE REMOTE BALANCING DAMPERS FOR ALL BALANCING DAMPERS LOCATED OVER HARD LID CEILINGS OR WHERE THE DAMPER IS INACCESSIBLE.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.
9. MANUAL VOLUME DAMPERS SHALL BE PROVIDED AT ALL BRACH DUCT LOCATIONS AND DUCT INLET/OUTLET LOCATIONS WHERE MEASURED AIRFLOW IS REQUIRED. REFER TO SPECIFICATION FOR REQUIREMENTS.

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 04 - PART B - DUCTWORK

2M-143

1 **MECHANICAL FLOOR PLAN - LEVEL 04-Z2 - PART B - DUCTWORK**

1/2M-141 | 1/8" = 1'-0"

N

11/17/2017 9:17:50 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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1 MECHANICAL FLOOR PLAN - LEVEL 04-Z2 - PART A - PIPING

1/2M-141 1/8" = 1'-0"

N

SHEET NOTES

1. VRV HEAT RECOVERY BOXES SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES AT INLET AND OUTLET CONNECTIONS. (TYP)
2. REFER TO VRV DIAGRAMS FOR PRELIMINARY REFRIGERANT PIPE SIZING. FINAL PIPE SIZING TO BE DETERMINED FROM CONTRACTOR DEVELOPED SHOP DRAWINGS. (TYP)
3. VRF AND SPILT SYSTEM REFRIGERANT PIPING UP THRU ROOF TO AHU-1A AND AHU-1B.
4. 1" HHWS&R PIPING UP THRU ROOF TO AHU-1A AND AHU-1B.
5. EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE COORDINATED WITH FINAL EQUIPMENT LAYOUT.
6. PIPING (REFRIGERANT, PLUMBING, AND HYDRONIC) AND CONDENSING EQUIPMENT LOCATED IN IT/ELEC/MPOE/MACHINE ROOMS SHALL BE PROVIDED WITH GALVANIZED STEEL DRAIN PANS. DRAIN PANS SHALL BE INSTALLED WITH WATER DETECTION SENSORS CONNECTED TO THE BUILDING MANAGEMENT SYSTEM.

GENERAL NOTES

1. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
2. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
3. PROVIDE INSULATED DUCTWORK WHEN LOCATED ABOVE ARCHITECTURAL CEILINGS. DUCTWORK LOCATED IN OPEN CEILING AREAS SHALL NOT BE INSULATED.
4. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL PLACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
5. CONTRACTOR SHALL PROVIDE REMOTE BALANCING DAMPERS FOR ALL BALANCING DAMPERS LOCATED OVER HARD LID CEILINGS OR WHERE THE DAMPER IS INACCESSIBLE.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.

LEGEND

- DP STABILIZING VALVE. REFER TO MECHANICAL SCHEDULES.
- PRESSURE INDEPENDENT BALANCING AND CONTROL VALVE (MODULATION).

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 04 - PART A - PIPING

2M-144

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



SHEET NOTES

1. VRV HEAT RECOVERY BOXES SHALL BE PROVIDED WITH FULL PORT ISOLATION VALVES AT INLET AND OUTLET CONNECTIONS. (TYP)
2. REFER TO VRV DIAGRAMS FOR PRELIMINARY REFRIGERANT PIPE SIZING. FINAL PIPE SIZING TO BE DETERMINED FROM CONTRACTOR DEVELOPED SHOP DRAWINGS. (TYP)
3. VRF AND SPILT SYSTEM REFRIGERANT PIPING UP THRU ROOF THRU PIPING DOGHOUSE.
4. VRV 3-PIPE STACKED FOR VRV-11 AND VRV-12.

GENERAL NOTES

1. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND AS SUCH DOES NOT DETAIL ALL REQUIRED OFFSETS AND TRANSITIONS NEEDED. CONTRACTOR SHALL DEVELOP FULLY COORDINATED SHOP DRAWINGS WITH ALL TRADES.
2. REFER TO ARCHITECTURAL PLANS FOR HVAC PAINTING REQUIREMENTS.
3. PROVIDE INSULATED DUCTWORK WHEN LOCATED ABOVE ARCHITECTURAL CEILINGS. DUCTWORK LOCATED IN OPEN CEILING AREAS SHALL NOT BE INSULATED.
4. THERMOSTAT LOCATIONS SHOWN ON MECHANICAL ZONING PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING PLACEMENT. THERMOSTAT GENERAL PLACEMENT DETAIL SHOWN ON ARCHITECTURAL SHEETS.
5. CONTRACTOR SHALL PROVIDE REMOTE BALANCING DAMPERS FOR ALL BALANCING DAMPERS LOCATED OVER HARD LID CEILINGS OR WHERE THE DAMPER IS INACCESSIBLE.
6. EQUIPMENT ACCESS AND CONNECTION LOCATIONS AS SHOWN ON PLANS ARE DIAGRAMMATICAL. CONTRACTOR SHALL REVIEW COORDINATED SHOP DRAWINGS AND PROVIDE EQUIPMENT WITH ACCESS AND CONNECTIONS AS NECESSARY.
7. MEHCANICAL CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH GENERAL AND FIRE-LIFE SAFETY CONTRACTOR FOR ALL REQUIRED SPRINKLER MAIN MODIFICATIONS NEEDED FOR DUCT AND PIPE ROUTING.
8. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND PIPING SIESMIC PACKAGE FROM MASON INDUSTRIES (OR EQUAL). SEISMIC PACKAGE SHALL BE STAMPED AND SIGNED BY STRUCTURAL ENGINEER.

1 **MECHANICAL FLOOR PLAN - LEVEL 04-Z2 - PART B - PIPING**

1/2M-141 | 1/8" = 1'-0"

N

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 04 - PART B - PIPING

2M-145

10/2/2017 12:00:49 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
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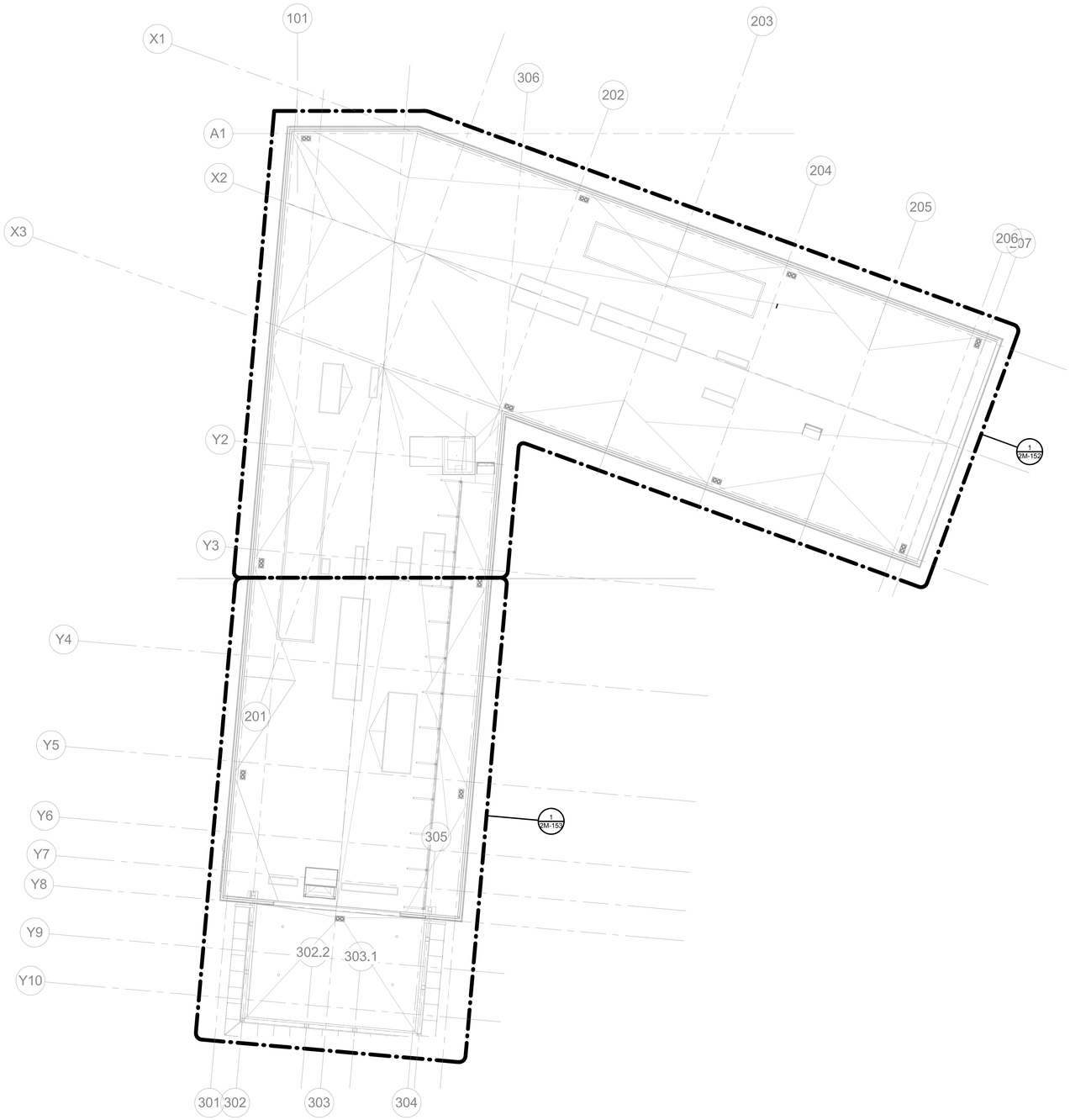

SHEET NOTES

1. xxx

GENERAL NOTES

1. XXX

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL OVERALL ROOF PLAN - ROOF LEVEL

Sheet No.
2M-151

1 **MECHANICAL OVERALL ROOF PLAN - ROOF LEVEL - Z2**

/ 1/16" = 1'-0"

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

11/17/2017 9:18:04 AM
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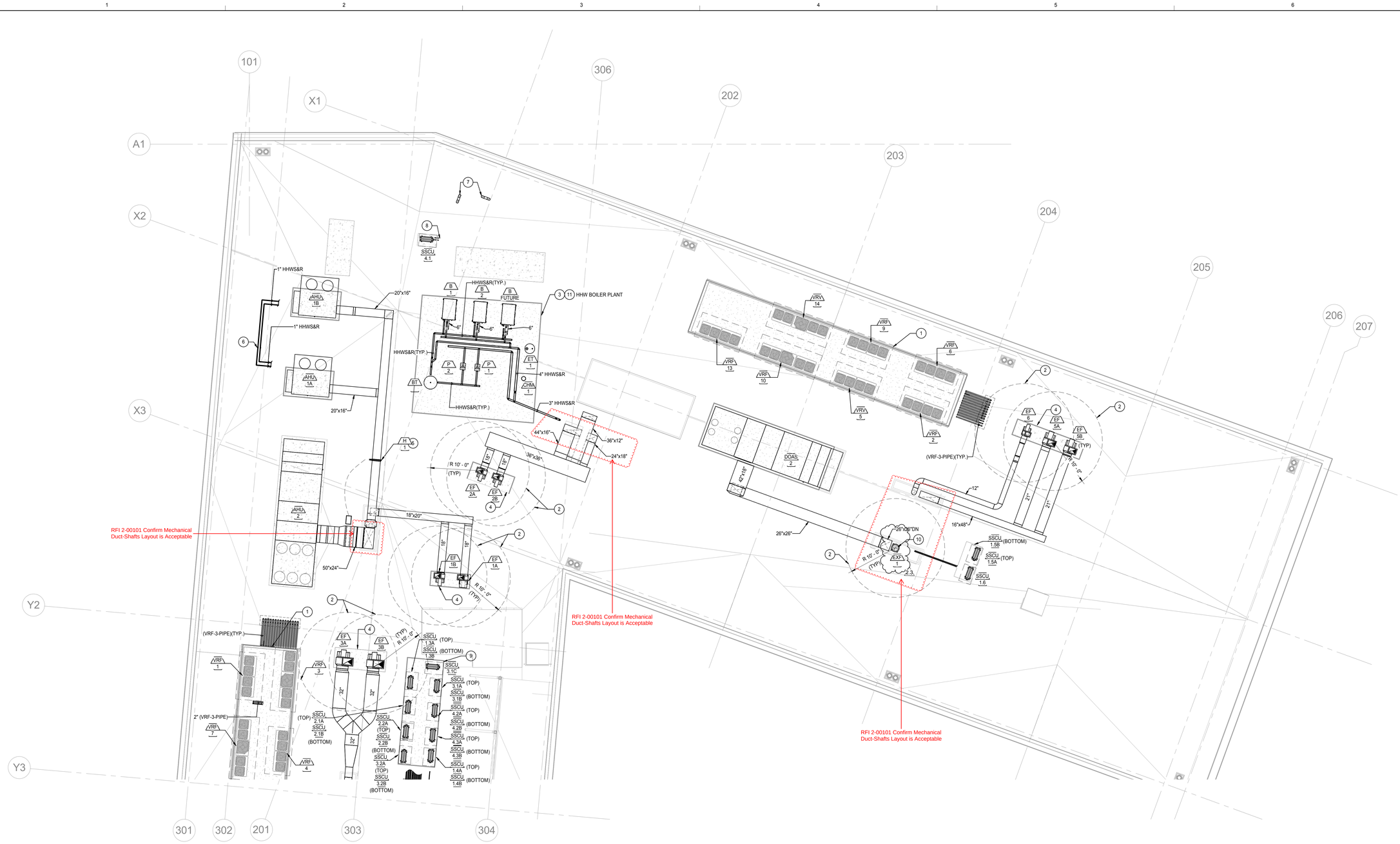

1 MECHANICAL ROOF PLAN - ROOF LEVEL - Z2 - PART A

1/2M-151 | 1/8" = 1'-0"

N

SHEET NOTES

1. VRF OUTDOOR MODULES MOUNTED ON STEEL EQUIPMENT PLATFORM. REFER TO ARCHITECTURAL AND STRUCTUAL PLANS FOR DETAILS.
2. EXHAUST DISCHARGE STACK CLEARANCE. MAINTAIN 10'-0" FROM BUILDING OPENINGS AND HVAC OSA INTAKES.
3. HEATING HOT WATER PLANT LOCATED ON EQUIPMENT PLATFORM. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
4. EXHAUST FANS LOCATED ON EQUIPMENT PLATFORM. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
5. HUMIDIFIER LOCATED ON EQUIPMENT PLATFORM. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
6. 1" HHWS&R DOWN THRU ROOF.
7. 4" PROCESS AIR INLET/OUTLET FROM DH-1. GOOSENECK DUCT AT ROOF AND PROVIDE 1/4" STEEL MESH SCREEN AT INLET.
8. REFRIGERANT LINESET DOWN THRU ROOF. REFER TO 9/2M-501 FOR DETAILS.
9. SPLIT SYSTEM CONDENSING UNITS LOCATED ON EQUIPMENT PLATFORM. REFER TO ARCHITECTURAL PLANS FOR DETAILS. CONDENSING UNITS TO BE MOUNTED PER DETAIL 3/2M-503.
10. 8" PVC DIRECT VENT. PROVIDE WITH SEPARATE ENCLOSURE OR FIRE WRAP. ROUTE FLUE VENT TO EXF-1. PROVIDE WITH MANUFACTURER ROOF MOUNTING KIT AND NEUTRALIZATION KIT.
11. REFER TO 1/2M-304 FOR HEATING HOT WATER FLOW DIAGRAM, PIPE SIZES AND COMPONENTS.

GENERAL NOTES

1. REFER TO 3/2M-503 FOR MOUNTING DETAILS.

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL ROOF PLAN - ROOF LEVEL - PART A

Sheet No.

2M-152

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 12:01:00 PM
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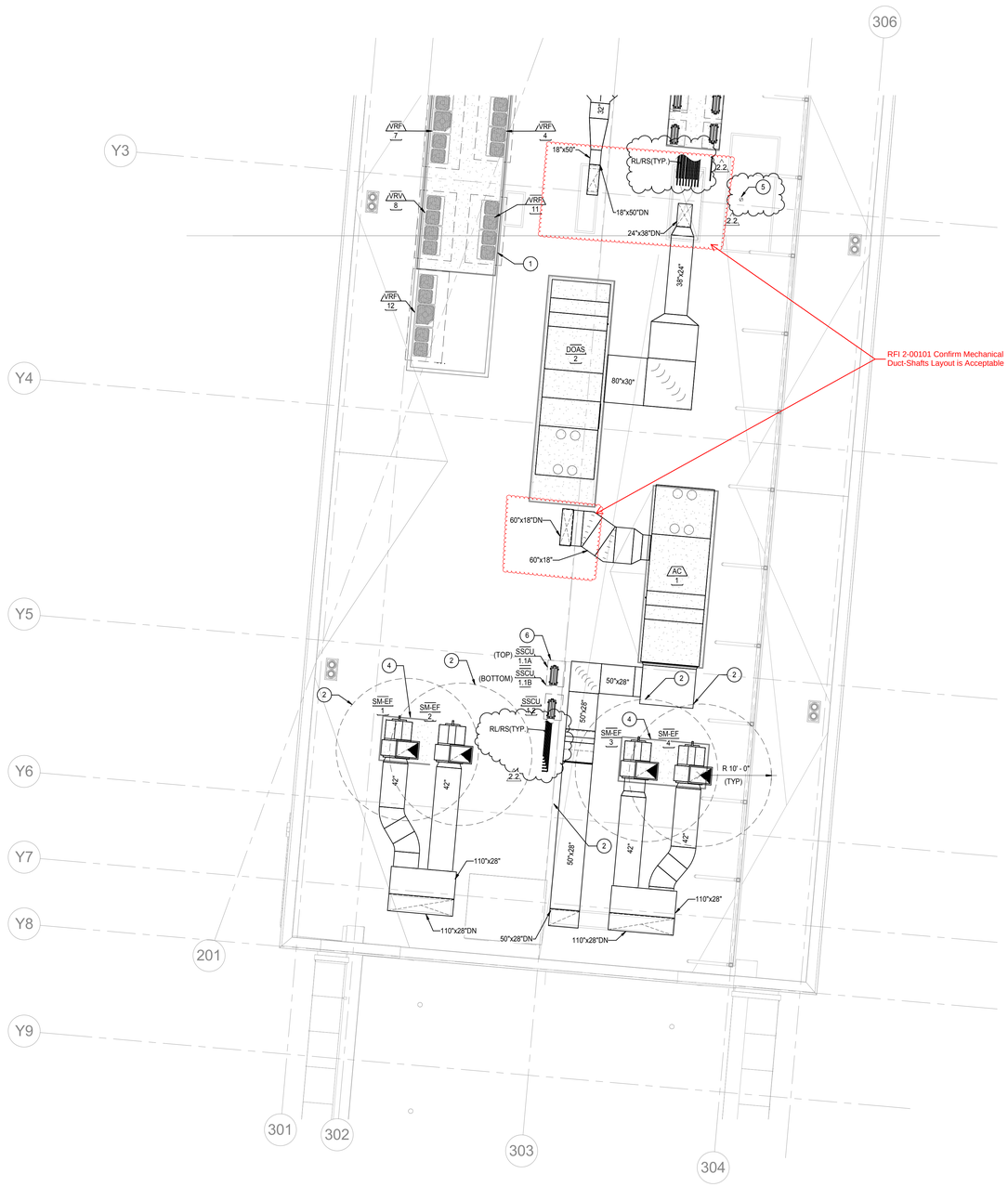

1 MECHANICAL ROOF PLAN - ROOF LEVEL - Z2 - PART B

N

1/2M-151 1/8" = 1'-0"

SHEET NOTES

1. VRF OUTDOOR MODULES MOUNTED ON STEEL EQUIPMENT PLATFORM. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETIALS.
2. EXHAUST DISCHARGE STACK CLEARANCE. MAINTAIN 10'-0" FROM BUILDING OPENINGS AND HVAC OSA INTAKES.
3. VRF-12 TO BE LOCTED ON EQUIPMENT PLATFORM. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
4. EXHAUST FANS LOCATED ON EQUIPMENT PLATFORM. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
5. 6" PVC DIRECT VENT. ROUTE FLUE AND COMBUSTION AIR INTAKE VENT UP TO ROOF TO CONCENTRIC VENT.
6. SPLIT SYSTEM CONDENSING UNITS MOUNTED ON EQUIPMENT PLATFORM. REFER TO ARCHITECURAL PLANS FOR DETAILS. STACKED CONDENSING UNITS TO BE MOUNTED PER DETAIL 3/2M-503.

2.2

GENERAL NOTES

1. XXX

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL ROOF PLAN - ROOF LEVEL - PART B

Sheet No.

2M-153

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

10/3/2017 7:19:43 AM
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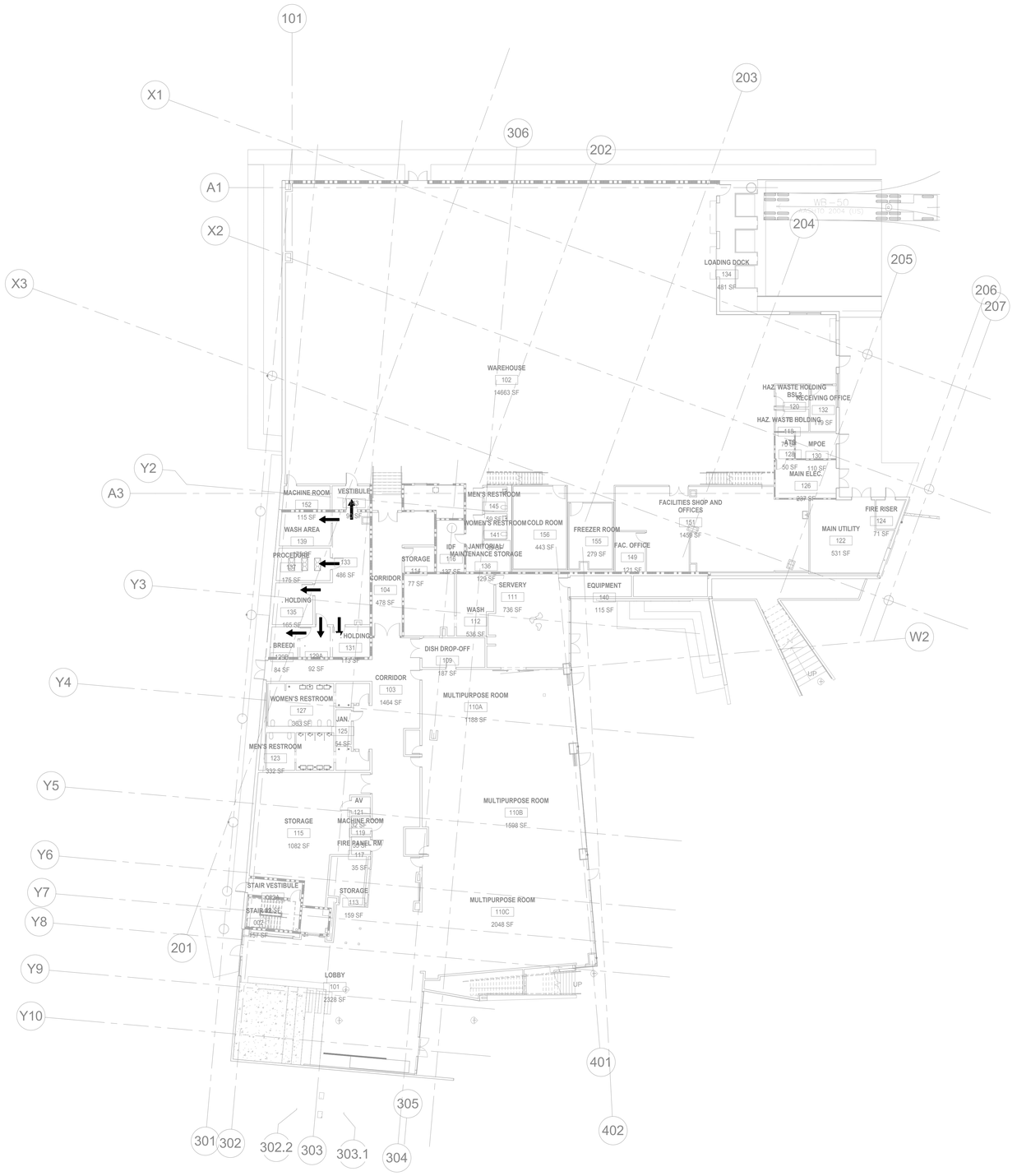

1	**MECHANICAL PRESSURIZATION PLAN - LEVEL 01-Z2**
/	1/16" = 1'-0"

N

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL PRESSURIZATION PLAN - LEVEL 01

Z-22

Sheet No.
2M-201

10/2/2017 7:19:46 AM
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1	**MECHANICAL PRESSURIZATION PLAN - LEVEL 02-Z2**	N
/	1/16" = 1'-0"	

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

2.2

Sheet Title

MECHANICAL PRESSURIZATION PLAN - LEVEL 02

Sheet No.

2M-202

10/3/2017 7:18:48 AM
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1	MECHANICAL PRESSURIZATION PLAN - LEVEL 03-Z2
/	1/16" = 1'-0"

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL PRESSURIZATION PLAN - LEVEL 03

Sheet No.
2M-203

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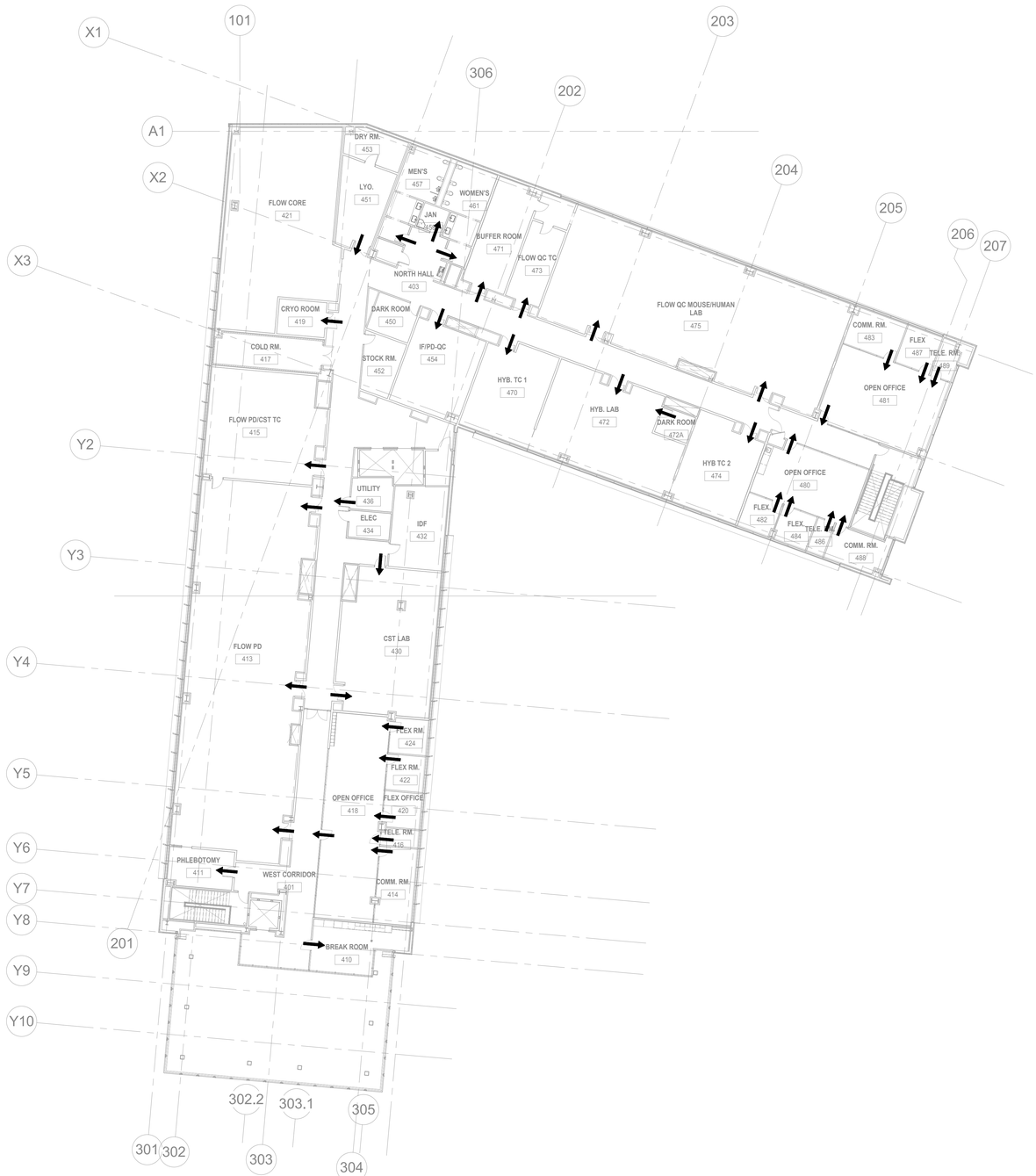

1	**MECHANICAL PRESSURIZATIONPLAN - LEVEL 04-Z2**
/	1/16" = 1'-0"

N

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

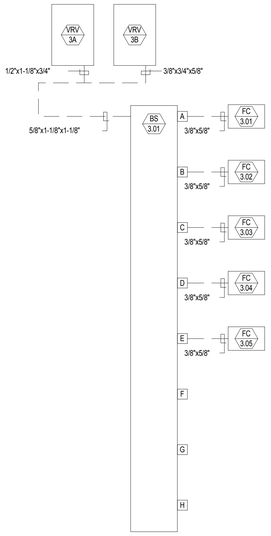
Sheet Title

MECHANICAL PRESSURIZATION PLAN - LEVEL 04

Sheet No.

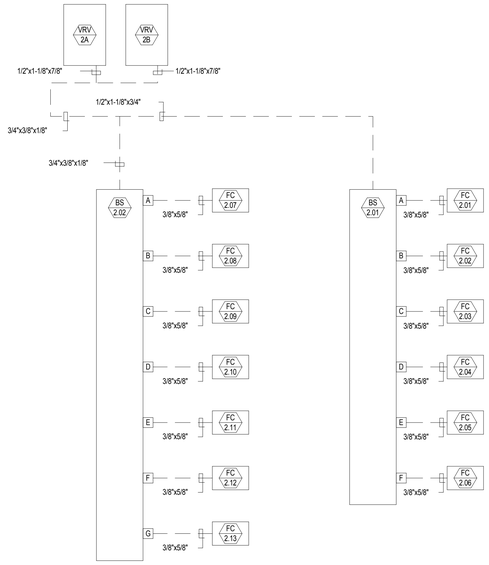
2M-204

8/7/2017 2:40:25 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



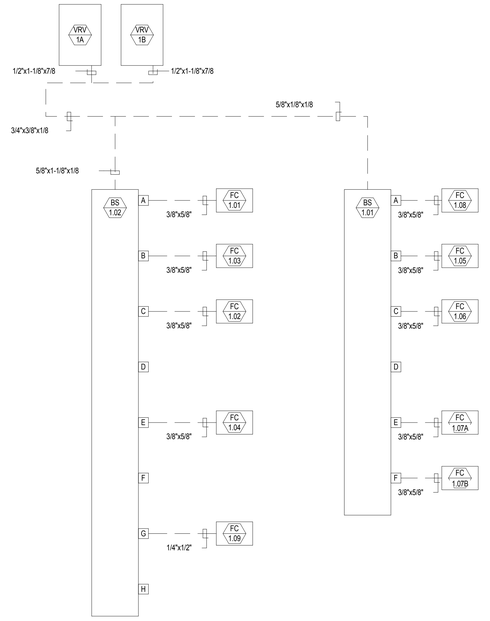
VRV-3 PIPING DIAGRAM

SCALE	
NONE	3



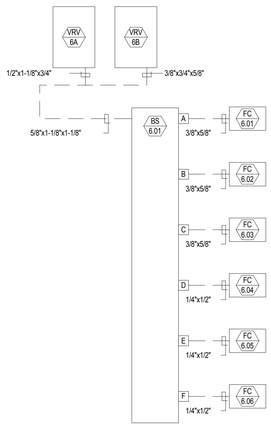
VRV-2 PIPING DIAGRAM

SCALE	
NONE	2



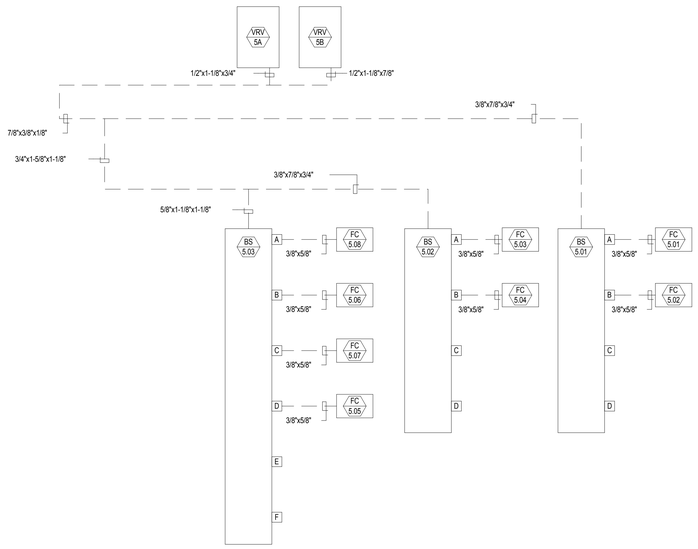
VRV-1 PIPING DIAGRAM

SCALE	
NONE	1



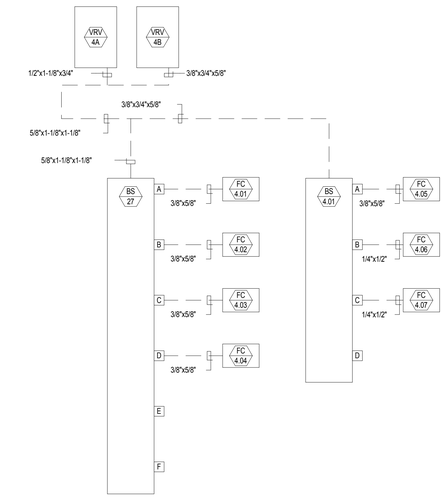
VRV-6 PIPING DIAGRAM

SCALE	
NONE	6



VRV-5 PIPING DIAGRAM

SCALE	
NONE	5



VRV-4 PIPING DIAGRAM

SCALE	
NONE	4

GENE THEORY

CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL DIAGRAMS

Sheet No.

2M-301

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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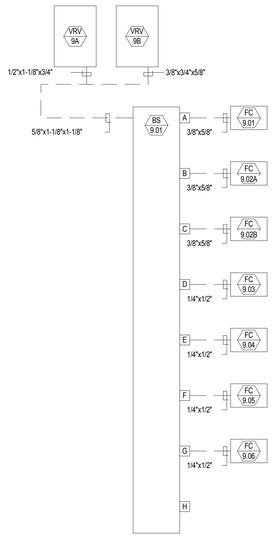
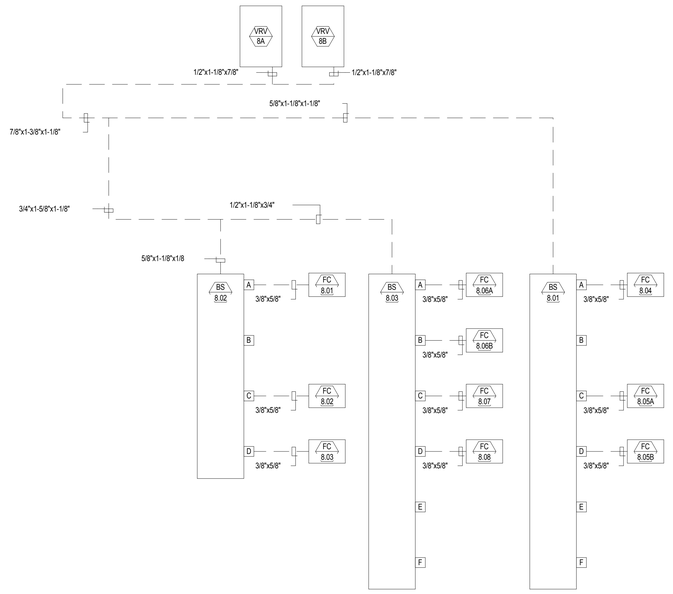


VRV-9 PIPING DIAGRAM

SCALE NONE | 3



VRV-8 PIPING DIAGRAM

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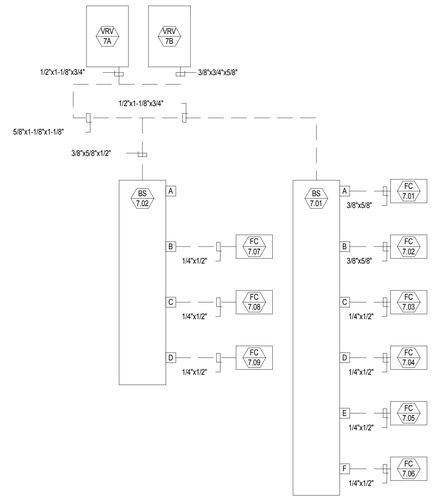

VRV-7 PIPING DIAGRAM

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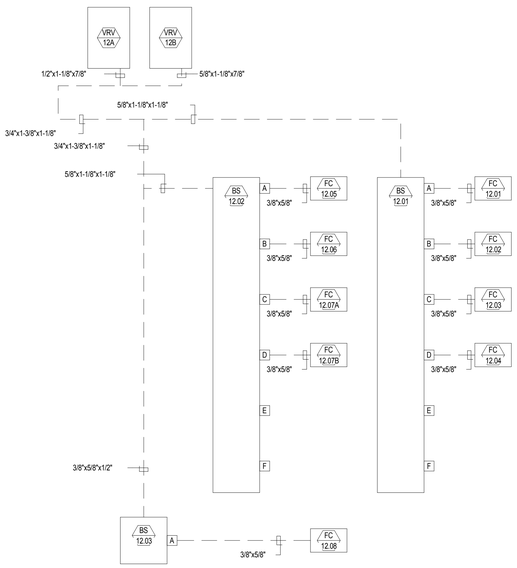
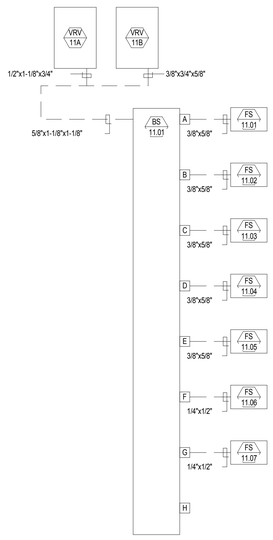


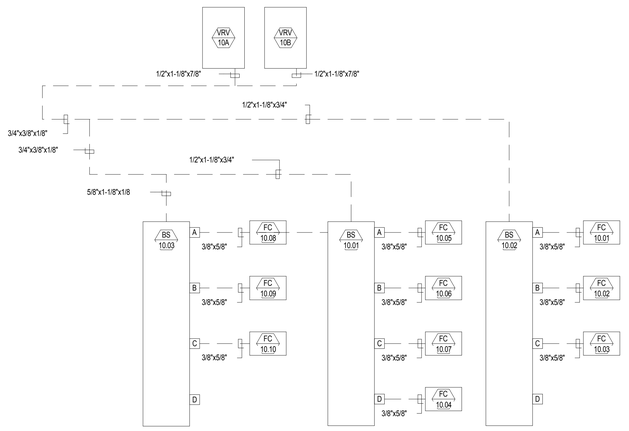
VRV-12 PIPING DIAGRAM

SCALE NONE | 6



VRV-11 PIPING DIAGRAM

SCALE NONE | 5



VRV-10 PIPING DIAGRAM

SCALE NONE | 4

GENE THEORY

CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL DIAGRAMS

Sheet No.

2M-302

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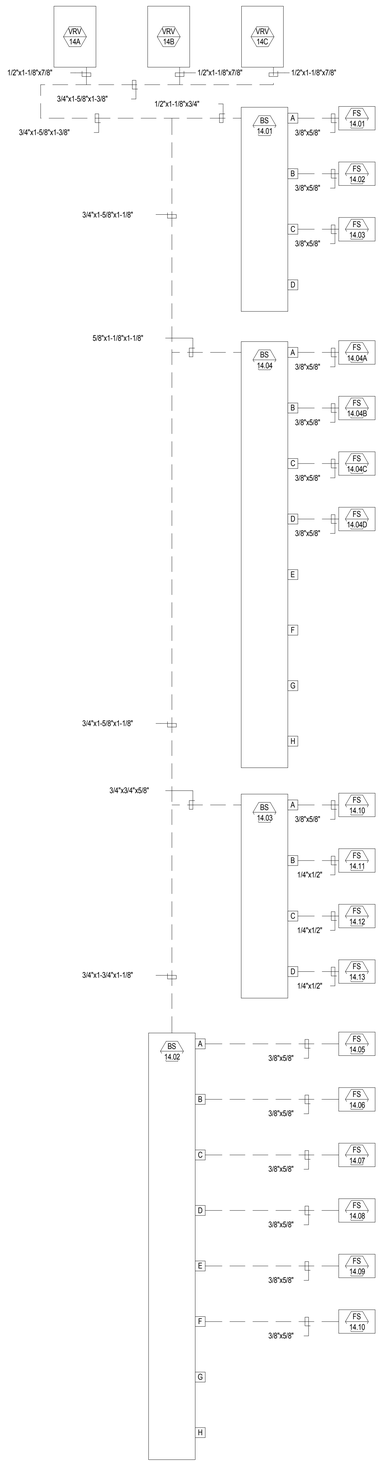
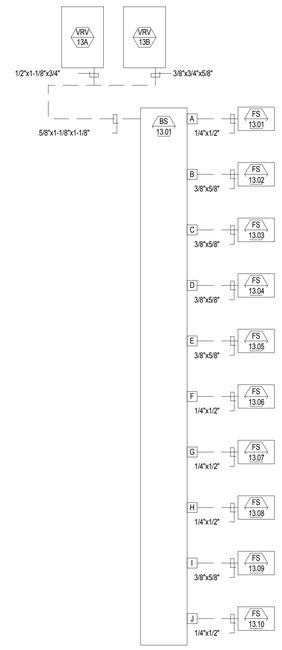


VRV-14 PIPING DIAGRAM

SCALE	
NONE	2



VRV-13 PIPING DIAGRAM

SCALE	
NONE	1

GENE THEORY

CP 2

VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL DIAGRAMS

Sheet No.

2M-303

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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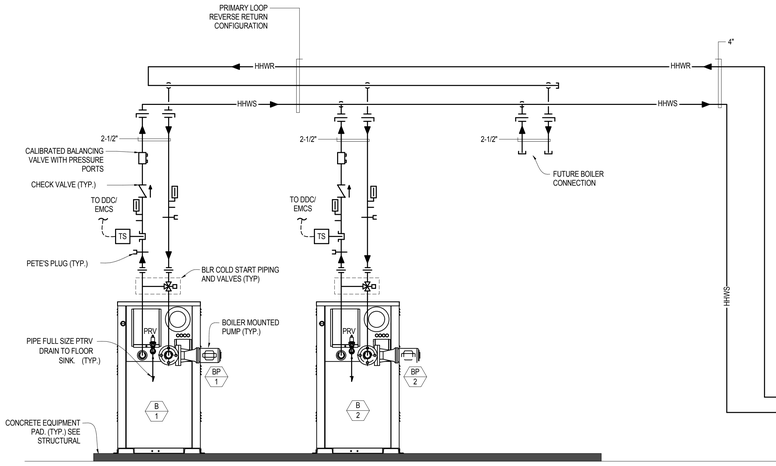

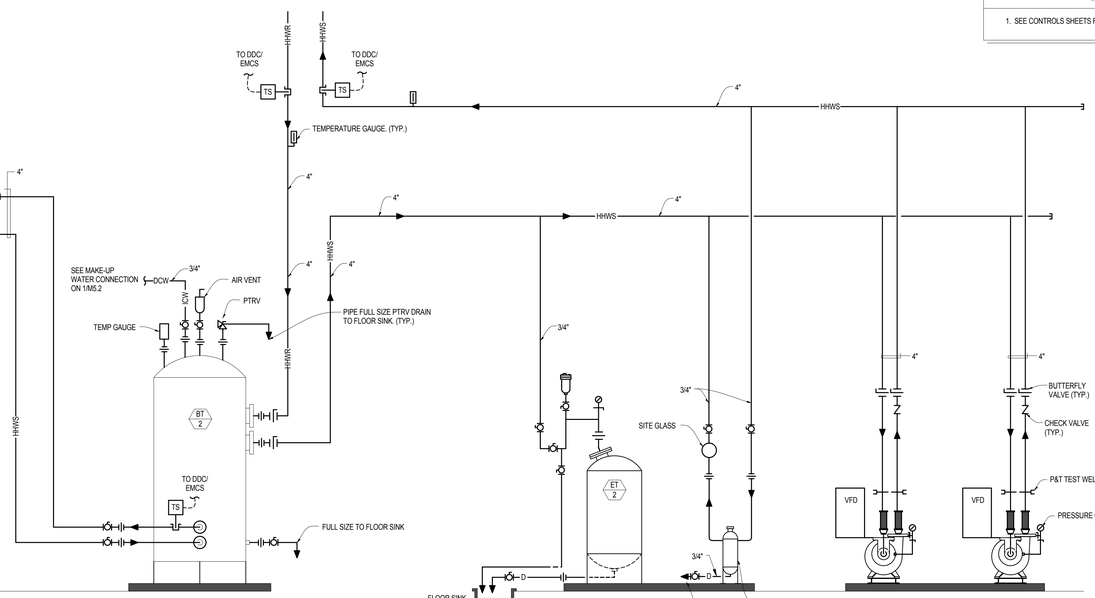

GENERAL NOTE

1. SEE CONTROLS SHEETS FOR REQUIRED DDC SENSORS TO BE INSTALLED IN SYSTEM.

HEATING HOT WATER FLOW DIAGRAM

SCALE NONE 1

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL
DIAGRAMS

Sheet No.
2M-304

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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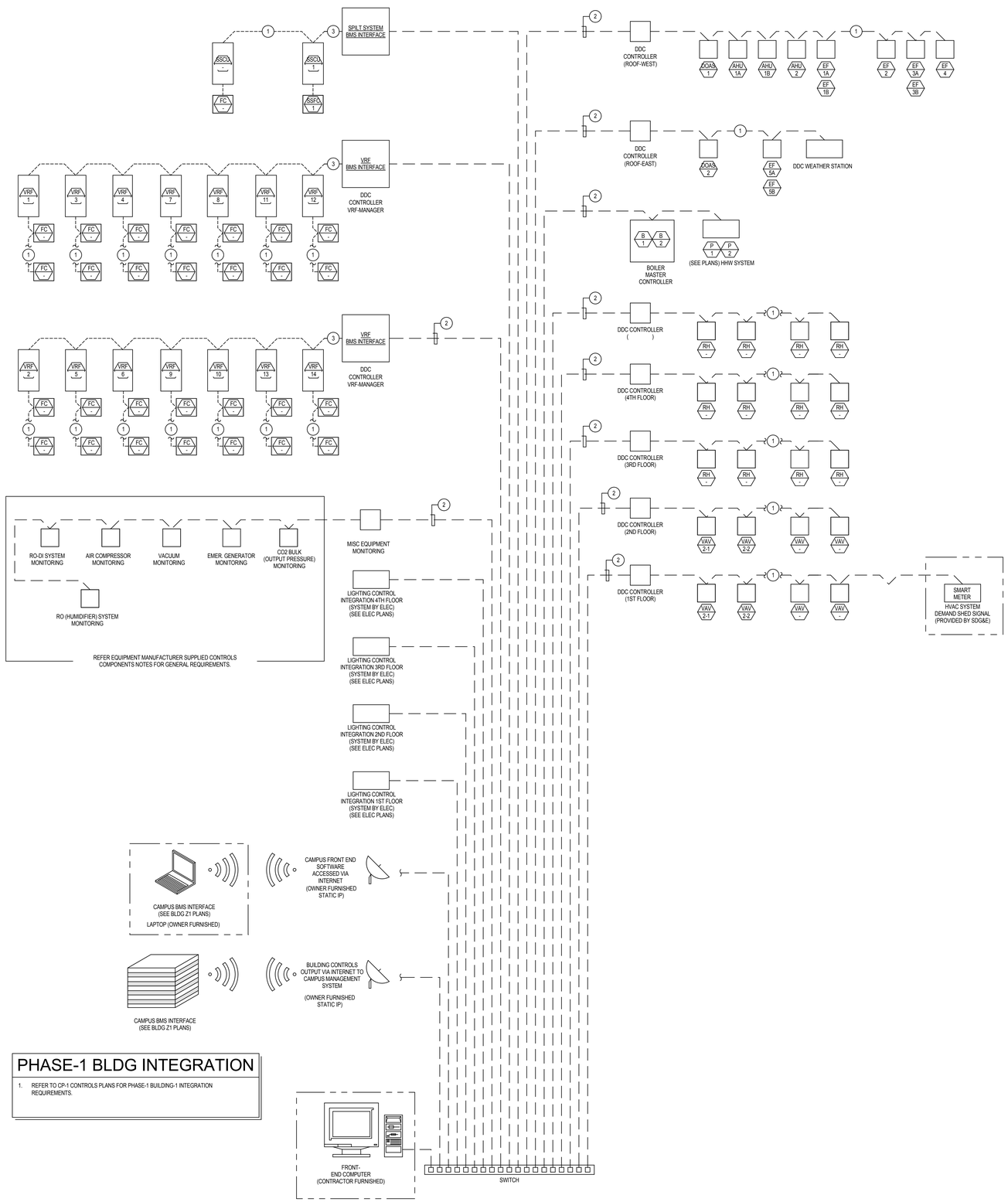

PHASE-1 BLDG INTEGRATION

1. REFER TO CP-1 CONTROLS PLANS FOR PHASE-1 BUILDING-1 INTEGRATION REQUIREMENTS.

EQUIPMENT MANUFACTURER SUPPLIED CONTROLS COMPONENTS

1. DDC COMPONENTS, SENSORS, CONTROLLERS MAY BE SUPPLIED BY EQUIPMENT MANUFACTURERS BUT IT IS THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR THAT ALL APPROVED EQUIPMENT AND COMPONENTS ARE COMPATIBLE AND FULLY INTEGRATED INTO THE BUILDING MANAGEMENT SYSTEM PLANS AND SPECIFICATIONS.
2. OFCI EQUIPMENT. THE CONTROLS CONTRACTOR SHALL SETUP A PRELIMINARY MEETING PRIOR TO CONTROLS SYSTEMS ARE SUBMITTED, WITH THE ENGINEER OF RECORD AND OWNER/OWNER REPRESENTATIVE TO DISCUSS INTEGRATION OF OWNER SUPPLIED EQUIPMENT INTO THE BMS SYSTEM FOR MONITORING OR CONTROL.

BMS NOTIFICATIONS

1. BUILDING MANAGEMENT SYSTEM SHALL FORWARD ALARMS, ALERTS, AND NOTIFICATIONS BY TEXT MESSAGES AND EMAILS TO THE FACILITIES MANAGEMENT STAFF.
2. THE CONTROLS CONTRACTOR SHALL SETUP A PRELIMINARY MEETING PRIOR TO CONTROLS SYSTEMS ARE SUBMITTED, WITH THE ENGINEER OF RECORD AND OWNER/OWNER REPRESENTATIVE TO DISCUSS NOTIFICATION AND ALERTS TO FACILITY STAFF.

NOTIFICATION FOR ALARMS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING SYSTEMS.
- RO SYSTEM (HUMIDIFER)
- ELECTRICAL GROUND FAULT
- HUMIDIFIER
- RO-DI SYSTEM (LABORATORY HOUSE SYSTEM)
- AIR COMPRESSOR (LABORATORY HOUSE SYSTEM)
- EMERGENCY DIESEL GENERATOR
- CO2 BULK TANK (OUTLET PRESSURE)
- DRY ROOM HUMIDITY
- DESICCANT DEHUMIDIFIER
- HVAC SYSTEM ALARMS AND NOTIFICATIONS

DATA TRENDING

THE CONTROLS SYSTEMS SHALL HAVE THE CAPACITY TO RECORD AND STORE BMS TRENDS AND POINTS FOR A PERIOD OF 3-MONTHS IN THE GENERAL LABORATORY AND OFFICE AREAS AND FOR A PERIOD OF 6-MONTHS IN THE .

GENERAL NOTE

1. BASIS OF DESIGN CONTROL SYSTEM IS DELTA CONTROLS (INSTALLING CONTRACTOR:AUTOMATED CONTROLS). SYSTEM SHALL BE A NATIVE BACNET SYSTEM WITH A CUSTOM GRAPHICAL INTERFACE. REFER TO CONTROL SCHEMATICS AND MECHANICAL SPECIFICATIONS FOR DETAILS AND REQUIREMENTS.
2. AS SHOWN THE DDC SYSTEM ARCHITECTURE SCHEMATIC IS FOR REFERENCE ONLY AND ESSENTIALLY DIAGRAMMATIC. COMPLETE SYSTEM LAYOUT, DESIGN, AND QUANTITIES OF THE REQUIRED BUILDING/UNIT/APPLICATION SPECIFIC CONTROLLERS IS DEFERRED TO THE INSTALLING MANUFACTURER AND CONTRACTOR. REFER TO PROJECT SPECIFICATIONS FOR CONTROL SYSTEM REQUIREMENTS. SHOP DRAWINGS AND WIRING DIAGRAMS SHALL BE SUBMITTED TO THE DESIGN TEAM FOR REVIEW.
3. APPLICATION AND ZONE LEVEL DDC CONTROLLERS SHALL HAVE THE CAPACITY TO SUPPORT EQUIPMENT AS SHOWN ON THE PLANS PLUS AN ADDITIONAL 5% CAPACITY FOR FUTURE EQUIPMENT CONNECTIONS.
4. CONTROLS POWER SHALL BE PROVIDED BY TRANSFORMERS FURNISHED BY THE CONTROLS CONTRACTOR. LINE VOLTAGE (120V/1PH) SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS SHOWN ON THE ELECTRICAL PLANS. ADDITIONAL ELECTRICAL POWER JUNCTION BOX LOCATIONS NEEDED BY THE CONTROLS CONTRACTOR SHALL BE COORDINATED DURING THE SUBMITTAL PROCESS WITH THE DESIGN TEAM.
5. THE CONTROLS TRANSFORMER SHALL BE FURNISHED BY CONTROLS CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTROLS TRANSFORMER SHALL PROVIDE LOW VOLTAGE POWER TO A MAXIMUM (5) FIVE DDC CONTROLLERS.

NOTES

1. REFER TO MECHANICAL SCHEDULES FOR EQUIPMENT QUANTITIES AND LOCATIONS. (TYP)
2. DEDICATED COMMUNICATIONS CABLING SHALL BE ROUTED DIRECTLY FROM THE CENTRAL SWITCH TO THE DDC CONTROLLERS LOCATED ON THE ROOF AND .
3. PROPRIETARY COMMUNICATIONS CABLING. CONTROLS CONTRACTOR FURNISHED AND INSTALLED. CONTROLS CONTRACTOR SHALL COORDINATE REQUIREMENTS AND LIMITATIONS, AND CONTROLS WIRING SHOP DRAWINGS WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING.

AUTOMATIC DEMAND SHED

DDC SYSTEM SHALL BE COMPLIANT WITH BUILDING ENERGY CODE REQUIREMENTS FOR AUTOMATIC DEMAND SHED

DEMAND SHED COMPLIANCE IS APPLICABLE TO AIR HANDLING UNITS AC 1, 2

1. THE CONTROLS SHALL HAVE A CAPABILITY TO REMOTELY SETUP THE OPERATING COOLING TEMPERATURE SET POINTS BY 4 DEGREES OR MORE IN ALL NON-CRITICAL ZONES ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS).
2. THE CONTROLS SHALL HAVE A CAPABILITY TO REMOTELY SETDOWN THE OPERATING HEATING TEMPERATURE SET POINTS BY 4 DEGREES OR MORE IN ALL NON-CRITICAL ZONES ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS.
3. THE CONTROLS SHALL HAVE CAPABILITIES TO REMOTELY RESET THE TEMPERATURES IN ALL NON-CRITICAL ZONES TO ORIGINAL OPERATING LEVELS ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS.
4. THE CONTROLS SHALL BE PROGRAMMED TO PROVIDE AN ADJUSTABLE RATE OF CHANGE FOR THE TEMPERATURE SETUP AND RESET.
5. 5. THE CONTROLS SHALL HAVE THE FOLLOWING FEATURES:
   - A. DISABLED. DISABLED BY AUTHORIZED FACILITY OPERATORS; AND
   - B. MANUAL CONTROL. MANUAL CONTROL BY AUTHORIZED FACILITY OPERATORS TO ALLOW ADJUSTMENT OF HEATING AND COOLING SET POINTS GLOBALLY FROM A SINGLE POINT IN THE EMCS
   - C. AUTOMATIC DEMAND SHED CONTROL. UPON RECEIPT OF A DEMAND RESPONSE SIGNAL, THE SPACE-CONDITIONING SYSTEMS SHALL CONDUCT A CENTRALIZED DEMAND SHED, AS SPECIFIED IN SECTIONS 120.2(H)1 AND 120.2(H)2 OF THE CALIFORNIA ENERGY CODE, FOR NON-CRITICAL ZONES DURING THE DEMAND RESPONSE PERIOD.

CAMPUS FRONT-END COMPUTER (CONTRACTOR FURNISHED)

GENE THEORY CAMPUS CONTROLS INTERFACE

1. BASIS OF DESIGN CAMPUS BMS SYSTEM IS A DELTA CONTROLS SYSTEM (INSTALLING CONTRACTOR: AUTOMATED CONTROLS). SYSTEM SHALL BE A NATIVE BACNET SYSTEM WITH A CUSTOM GRAPHICAL INTERFACE. REFER TO BUILDING CONTROL SCHEMATICS AND MECHANICAL SPECIFICATIONS FOR DETAILS AND REQUIREMENTS.
2. AS SHOWN THE CAMPUS SYSTEM ARCHITECTURE SCHEMATIC IS FOR REFERENCE ONLY AND ESSENTIALLY DIAGRAMMATIC. COMPLETE SYSTEM LAYOUT, DESIGN, AND QUANTITIES OF THE REQUIRED BUILDING INTEGRATION CONTROLLERS IS DEFERRED TO THE INSTALLING MANUFACTURER AND CONTRACTOR. REFER TO PROJECT SPECIFICATIONS FOR CONTROL SYSTEM REQUIREMENTS. SHOP DRAWINGS AND WIRING DIAGRAMS SHALL BE SUBMITTED TO THE DESIGN TEAM FOR REVIEW.
3. CAMPUS CONTROLS INTERFACE SHALL CONSOLIDATE THE BUILDING CONTROLS FOR THE THREE INDEPENDENT BUILDINGS INTO A SINGLE COMMON INTERFACE. ALL CONTROL POINTS (NEW AND EXISTING) SHALL BE MAPPED INTO MASTER CAMPUS INTERFACE FOR MULTI-BUILDING MANAGEMENT.

3.1. THE CAMPUS CONTROLS GRAPHICAL FRONT-END SHALL BE ACCESSIBLE FROM THE INTERNET.

GENE THEORY
CP 2

1450 VETERANS BLVD
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PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL CONTROLS

Sheet No.
2M-401

RFI 1-00023 Miscellaneous BAS Controls RFIs

DPR Issued Sheet 2017-08
Link to Sheet Index - 2G-002

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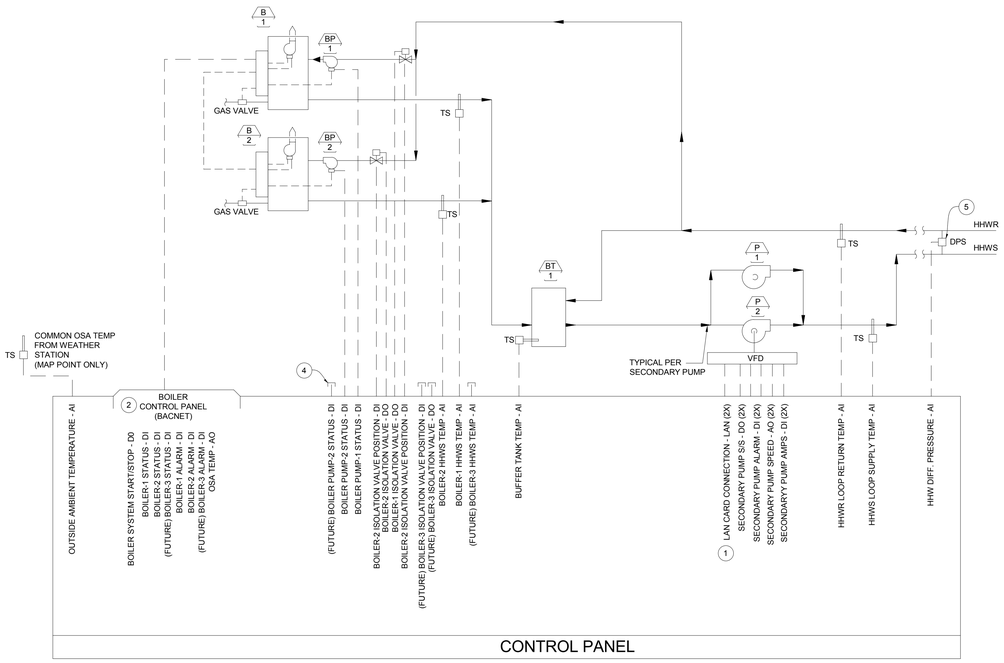


NOTES

1. CONTROLS CONTRACTOR SHALL CONNECT VFD TO LAN AND MAP OVER 15 DATA POINTS. SUBMIT LIST OF AVAILABLE POINTS FOR SELECTION. PROVIDE ALL GRAPHICS AND PROGRAMMING.
2. CONTROLS CONTRACTOR SHALL CONNECT THE BOILER VIA MANUFACTURER PROVIDED MODBUS PORT AND MAP OVER 15 DATA POINTS PER BOILER. SUBMIT LIST OF AVAILABLE POINTS FOR SELECTION. PROVIDE ALL GRAPHICS AND PROGRAMMING.
3. MANUFACTURER PROVIDED AND PRE-WIRED BOILER CONTROL SYSTEM (RAYPAK VERSA IC OR EQUAL)
4. DDC CONTROLLER SHALL HAVE THE CAPACITY FOR A FUTURE BOILER AND HHW PUMP.
5. REFER TO 2M-135 FOR RECOMMENDED LOCATION OF BUILDING DP SENSOR. FINAL LOCATION SHALL BE BASED ON CONTRACTOR SHOP DRAWINGS AND BALANCING SYSTEM MANUFACTURER (BOD-VICTAULIC).

SEQUENCE OF OPERATION - HHW

THE HEATING HOT WATER SYSTEM CONSIST OF THREE BOILERS, THREE BOILER PUMPS AND TWO SYSTEM PUMPS AND WILL OPERATE IN A PRIMARY/SECONDARY PUMPING ARRANGEMENT.

HEATING HOT WATER LOOP PUMPS

SYSTEM PUMP OPERATION SHALL BE INDEPENDENT FROM THE NUMBER OF BOILERS IN OPERATION. THE BUILDING AUTOMATION SYSTEM SHALL FIRST START THE LEAD PUMP AND MODULATE ITS PUMP SPEED TO MAINTAIN THE DIFFERENTIAL PRESSURE SETPOINT.

DIFFERENTIAL PRESSURE SETPOINT

THE PUMP SPEED SHALL MODULATE FROM THE SIGNAL OF A DIFFERENTIAL PRESSURE SENSOR AND TRANSMITTER LOCATED ACROSS THE MOST REMOTE REHEAT COIL VALVE.

BOILER STAGING AND MODULATION

BOILER STAGING SHALL BE DETERMINED BY THE FACTORY INSTALLED AND WIRED CONTROLS. LOGIC FOR THE STAGING AND MODULATION OF THE BOILER, BOILER PUMPS AND BOILER FANS SHALL BE DEFERRED TO THE FACTORY INSTALLED CONTROLS. FACTORY SETUP OF THE BOILERS SHALL SET THE DESIGN HEATING SETPOINT FOR LOOP TEMPERATURE TO 140 DEGREES LEAVING WATER TEMPERATURE AND STAGE THE BOILERS FOR LEAD-LAG OPERATION AND EQUAL WEAR.

PRIOR TO A BOILER START FUNCTION IS SENT THE BMS SHALL OPEN THE PRIMARY LOOP ISOLATION VALVE. SYSTEM VERIFICATION FROM THE ISOLATION VALVE SHALL BE RECEIVED PRIOR TO ENABLING THE BOILER.

HEATING HOT WATER LOOP TEMPERATURE SETPOINT

THE INITIAL HOT WATER LOOP TEMPERATURE SHALL BE 140F AND SHALL BE RESET BASED ON A LINEAR SCHEDULE BASED ON THE OUTSIDE AIR TEMPERATURE.

HOT WATER SUPPLY TEMPERATURE	OUTSIDE AIR TEMPERATURE
140F	32F AND BELOW
110F	60F AND ABOVE

BOILER SHUT OFF AND ISOLATION

WHEN A BOILER IS COMMANDED OFF THE BOILER ISOLATION VALVE SHALL BE COMMANDED CLOSED BY THE BMS. A DELAY OF 5 MINUTES (ADJ) FROM BOILER SHUT DOWN TO CLOSING OF THE ISOLATION VALVE SHALL BE MAINTAINED TO SHED RESIDUAL BOILER HEAT.

ALARMS AND STATUS

BOILER ALARMS AND STATUS INFORMATION FROM THE BOILER CONTROL SYSTEM SHALL BE MAPPED TO THE BUILDING MANAGEMENT SYSTEM. A MINIMUM OF 15 POINTS SHALL BE MAPPED INTO THE BMS. POINTS SHALL INCLUDE:

- -BOILER "ON/OFF" STATUS
- -BOILER OUTPUT CAPACITY
- -BOILER MODULATION STATUS
- -BOILER ALARM
- -DISCHARGE TEMPERATURE
- -INLET TEMPERATURE
- -BOILER FAN STATUS
- -PRIMARY PUMP STATUS
- -PRIMARY PUMP ALARM
- ** CONTRACTOR TO PROVIDE LIST OF AVAILABLE POINTS

SECONDARY PUMP ALARMS AND STATUS INFORMATION FROM THE VARIABLE FREQUENCY DRIVE SHALL BE MAPPED TO THE BUILDING MANAGEMENT SYSTEM. A MINIMUM OF 15 POINTS SHALL BE MAPPED INTO THE BMS. POINTS SHALL INCLUDE:

- -PUMP "ON/OFF" STATUS
- -PUMP SPEED
- -PUMP ALARM
- -VFD OUTPUT FREQUENCY
- -VFD INTERNAL ENCLOSURE TEMPERATURE
- ** CONTRACTOR TO PROVIDE LIST OF AVAILABLE POINTS

HEATING HOT WATER SYSTEM CONTROLS SCHEMATIC

SCALE	
NONE	1

SEQUENCE OF OPERATION

VARIABLE AIR VOLUME - TERMINAL UNIT

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO AN INPUT FROM A ZONE OCCUPANCY SENSOR:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
  - A 72°F (ADJ.) COOLING SETPOINT.
  - A 70°F (ADJ.) HEATING SETPOINT.
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN BE SET TO THE ZONE MINIMUM AIRFLOW. NO HEATING

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

REVERSING VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:
THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING:

OCCUPIED:

- WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
- WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION (ADJ.).
- WHEN ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

UNOCCUPIED:

- WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL CONTROL TO ITS MINIMUM AIRFLOW (ADJ.).
- REHEATING COIL VALVE:
  THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE REHEATING COIL VALVE OPEN ON DROPPING TEMPERATURE TO MAINTAIN ITS HEATING SETPOINT.

REHEATING - HIGH DISCHARGE AIR TEMPERATURE LIMIT:
THE CONTROLLER SHALL MEASURE THE DISCHARGE AIR TEMPERATURE AND LIMIT REHEATING IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 110°F (ADJ.)

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

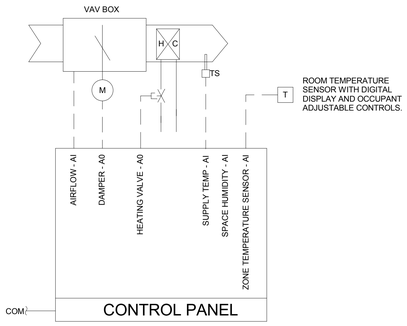
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).

BUILDING ENERGY CODE COMPLIANCE
CONTROLS SHALL BE CAPABLE OF SETTING TEMPERATURES TO 55°F FOR HEATING AND 85°F FOR COOLING AND PROVIDE A TEMPERATURE DEAD-BAND OF AT LEAST 5°F IF CONTROLLING BOTH HEATING AND COOLING.

ATRIUM VAV 1.1.1

VARIABLE AIR VOLUME - TERMINAL UNIT

MINIMUM DISCHARGE AIR TEMPERATURE SHALL BE LIMITED TO A MINIMUM 60F (ADJ)



VAV TERMINAL CONTROLS SCHEMATIC

SCALE	
NONE	3

NOTES

1. REFER TO PLUMBING PLANS FOR QUANTITY OF WATER HEATERS AND CIRCULATION PUMP(S) REQUIRED FOR INTEGRATION.

SEQUENCE OF OPERATION - DHW

THE DOMESTIC HOT WATER SYSTEM CONSIST OF STORAGE TYPE WATER HEATERS AND CIRCULATION LOOPS AND PUMPS

DHW LOOP TEMPERATURE

SYSTEM LOOP TEMPERATURE SHALL BE MAINTAINED BY SETPOINTS MANUALLY SET ON THE CIRCULATION PUMP AQUA STATS.

PER PLUMBING PLANS, THE AQUA STAT MINIMUM LOOP TEMPERATURE SETPOINT IS 110F.

SCHEDULING.

INITIAL SCHEDULE FOR THE SERVICE HOT WATER SYSTEMS SHALL BE SET FOR 24/7 (ADJ). BUILDING OPERATION. (CONTROLS START/STOP RELAY SHALL BE INSTALLED PER BUILDING ENERGY CODE REQUIREMENTS)

STATUS AND ALARMS

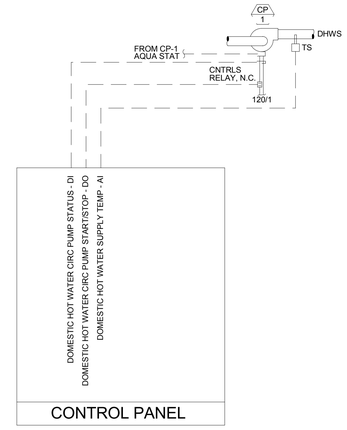
BMS SHALL ONLY MONITOR CIRCULATION PUMP STATUS AND LOOP TEMPERATURE.

ALARM - CIRCULATION PUMP: SHALL BE GENERATED IF DURING AN OCCUPIED PERIOD IF THE LOOP TEMPERATURE IS BELOW 100F (ADJ). AND THE PUMP STATUS IS "OFF".

ALARM - CIRCULATION PUMP: SHALL BE GENERATED IF DURING AN OCCUPIED PERIOD IF THE LOOP TEMPERATURE IS ABOVE 130F (ADJ). AND THE PUMP STATUS IS "ON".

ALARM - WATER HEATER: SHALL BE GENERATED IF DURING AN OCCUPIED PERIOD IF THE LOOP TEMPERATURE IS BELOW 100F (ADJ).

ALARM - WATER HEATER: ALARM SHALL BE GENERATED IF DURING AN OCCUPIED PERIOD IF THE LOOP TEMPERATURE IS ABOVE 130F (ADJ).



INDUSTRIAL AND DOMESTIC HOT WATER SYSTEMS.

SCALE	
NONE	2

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL CONTROLS

Sheet No.
2M-402

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

SEQUENCE OF OPERATION (AHU-1A & 1B)

OCCUPIED, UNOCCUPIED AND VENTILATION DELAY MODES OF OPERATIONS

OCCUPIED AND UNOCCUPIED MODES SHALL BE BASED ON SCHEDULED OCCUPANCY.

SUPPLY FAN CONTROL

OCCUPIED MODE - THE SUPPLY FANS SHALL START AND OPERATE CONTINUOUSLY. A CURRENT SENSING RELAY SHALL MONITOR FAN OPERATING STATUS AND SHALL SIGNAL AN ALARM IN THE EVENT OF A FAN FAILURE AND THE FAN ISOLATION DAMPER SHALL CLOSE.

UNOCCUPIED MODE - NONE.

SUPPLY DUCT CONTROL

THE VARIABLE FREQUENCY DRIVES SHALL MODULATE THE SUPPLY FAN MOTOR SPEEDS TO MAINTAIN A CONSTANT AIRFLOW TO THE .

PRIOR TO ENABLING THE SUPPLY FAN THE BMS SHALL VERIFY THE POSITION OF THE ISOLATION DAMPER.

AIR HANDLING UNIT PRESSURIZATION

A DIFFERENTIAL PRESSURE SENSOR AND TRANSMITTER WILL MEASURE FAN DISCHARGE AIR PRESSURE WITHIN THE AIR HANDLING UNIT AND WILL SIGNAL AN SHUTOFF ALARM ALL FANS IN THE EVENT OF A HIGH PRESSURE CONDITION.

SUPPLY AIR TEMPERATURE CONTROL

THE COOLING COIL AND HEATING COIL SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT TO MEET LABORATORY HUMIDIFICATION, AND DEHUMIDICATION REQUIREMENTS.

HUMIDIFICATION

OUTDOOR AND INDOOR HUMIDITY LEVELS SHALL BE MONITORED. THE STEAM HUMIDIFICATION SYSTEM SHALL BE ENABLED WHENEVER OUTDOOR HUMIDITY LEVELS DROP BELOW 50 % RH OR WHEN ROOM LEVELS DROP BELOW 50 % RH. WHEN HUMIDIFICATION IS ENABLED A MINIMUM AHU SUPPLY AIR TEMPERATURE OF 65 DEG.F SHALL BE MAINTAINED.

DEHUMIDIFICATION

OUTDOOR AND INDOOR HUMIDITY LEVELS SHALL BE MONITORED. WHENEVER OUTDOOR HUMIDITY LEVELS RISE ABOVE 60 % RH OR WHEN ROOM LEVELS DROP BELOW 60% RH (ADJ) THE AIR HANDLER SHALL OVERRIDE THE OUTSIDE AIR RESET VALUE AND ENABLE COOLING TO DEHUMIDIFY THE AIRFLOW.

FILTERS

A DIFFERENTIAL PRESSURE TRANSMITTER LOCATED ACROSS THE FILTERS SHALL SIGNAL AN ALARM WHEN THE PRESSURE DROP ACROSS THE FILTER REACHES SETPOINT AS SHOWN.

SYSTEM REDUNDANCY (AHU-1A & 1B)

AIR HANDLERS TO BE CONFIGURED IN DUTY-STANDBY OPERATION. AIR HANDLERS SHALL ROTATE DUTY FOR EQUAL WEAR.

WHEN IN A UNIT IS IN STANDBY MODE THE DUCT ISOLATION AND AIR HANDLER INTAKE DAMPERS SHALL BE CLOSED. SCHEDULED TIMES FOR AHU ROTATION SHALL BE COORDINATED AND CONDUCTED WITH USERS.

SYSTEM FAILURE. WHEN THE OPERATING AIR HANDLER RECEIVES AN ALARM AND/OR IS DISABLED THE BACKUP AIR HANDLER SHALL BE ENABLED.

ALARMS

THE CONTROLS CONTRACTOR SHALL ADJUST CURRENT TRANSDUCER SETTING SO THAT IN THE EVENT A BELT BREAKS OR FALLS OFF OF ITS PULLEY A MOTOR SPINNING WITH NO LOAD WILL GENERATE AN ALARM.

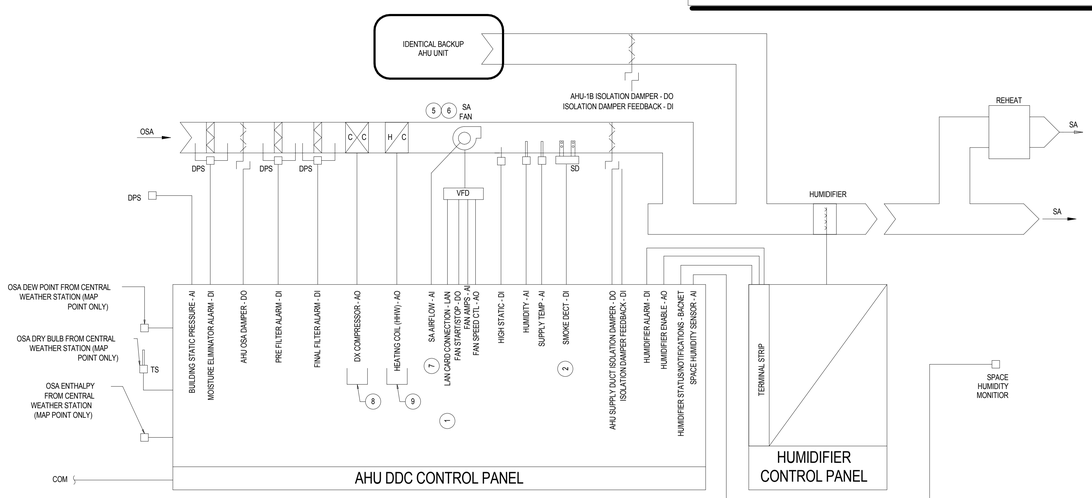
GENERAL ALARMS SHALL INCLUDE

-FAN FAILURE
-COMPRESSOR FAILURE
-FILTER-1
-FILTER-2
-MOISTURE ELIMINATOR
-HIGH STATIC
-HIGH LAT
-LOW LAT
-SMOKE DECTOR
-HUMIDIFIER ALARM
-HIGH HUMIDITY
-ISOLATION DAMPER FAILURE

ALARMS AND STATUS

FAN ALARMS AND STATUS INFORMATION FROM THE FAN VFD SHALL BE MAPPED TO THE BUILDING MANAGEMENT SYSTEM. A MINIMUM OF 15 POINTS SHALL BE MAPPED INTO THE BMS. POINTS SHALL INCLUDE:

-FAN "ON/OFF" STATUS
-FAN SPEED
-FAN ALARM
-VFD OUTPUT FREQUENCY
-VFD INTERNAL ENCLOSURE TEMPERATURE
** CONTRACTOR TO PROVIDE LIST OF AVAILABLE POINTS



EQUIPMENT MANUFACTURER SUPPLIED CONTROLS COMPONENTS

1. DDC COMPONENTS, SENSORS, CONTROLLERS MAY BE SUPPLIED BY EQUIPMENT MANUFACTURERS BUT IT IS THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR THAT ALL APPROVED EQUIPMENT AND COMPONENTS ARE COMPATIBLE AND FULLY INTEGRATED INTO THE BUILDING MANAGEMENT SYSTEM PLANS AND SPECIFICATIONS.

SHEET NOTES

1. CONTROLS POWER SHALL BE PROVIDED BY TRANSFORMERS FURNISHED BY THE CONTROLS CONTRACTOR. LINE VOLTAGE (120V/1PH) SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS SHOWN ON THE ELECTRICAL PLANS. ADDITIONAL ELECTRICAL POWER JUNCTION BOX LOCATIONS NEEDED BY THE CONTROLS CONTRACTOR SHALL BE COORDINATED DURING THE SUBMITTAL PROCESS WITH THE DESIGN TEAM.
2. THE CONTROLS TRANSFORMER SHALL BE FURNISHED BY CONTROLS CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTROLS TRANSFORMER SHALL PROVIDE LOW VOLTAGE POWER TO A MAXIMUM (5) FIVE DDC CONTROLLERS.

NOTES

1. CONTROLS CONTRACTOR SHALL CONNECT VFD TO LAN AND MAP OVER 15 DATA POINTS. SUBMIT LIST OF AVAILABLE POINTS FOR SELECTION. PROVIDE ALL GRAPHICS AND PROGRAMMING.
2. SMOKE DETECTOR WITH ADDRESSABLE RELAY. HARD WIRE SHUTDOWN TO FAN VFD.
3. PROVIDE AND INSTALL A STATIC PRESSURE SENSOR IN DUCTWORK HARD WIRE BACK TO AHU CONTROL ASSOCIATED WITH THE STATIC PRESSURE SENSOR.
4. SEE GENERAL ARRANGEMENT DRAWINGS FOR NUMBER OF DAMPERS AND ACTUATORS PROVIDE IN AIR HANDLING UNITS.
5. SEE SCHEDULES / GENERAL ARRANGEMENT DRAWINGS FOR NUMBER OF FANS/DAMPER ACTUATORS PROVIDED.
6. VFD IS PROVIDED BY AHU MANUFACTURER. SEE SCHEDULES / GENERAL ARRANGEMENT DRAWINGS FOR NUMBER OF FANS/VFDs.
7. FAN AIRFLOW MONITOR BY AHU MANUFACTURER. SEE GENERAL ARRANGEMENT DRAWINGS FOR NUMBER OF FANS.
8. SEE MECHANICAL SCHEDULES FOR MINIMUM NUMBER OF STAGES OF COOLING. REFER TO APPROVED MECH SUBMITTAL FOR COORDINATION WITH CONTROLS SUBMITTAL.
9. HEATING HOT WATER COIL.

100% AIR HANDLING UNIT CONTROLS SCHEMATIC (AHU-1A & AHU-1B) -

SCALE	1
NONE	

SEQUENCE OF OPERATION (AHU-2)

OCCUPIED, UNOCCUPIED AND VENTILATION DELAY MODES OF OPERATIONS

OCCUPIED AND UNOCCUPIED MODES SHALL BE BASED ON SCHEDULED OCCUPANCY.

SUPPLY FAN CONTROL

OCCUPIED MODE - THE SUPPLY FANS SHALL START AND OPERATE CONTINUOUSLY. A CURRENT SENSING RELAY SHALL MONITOR FAN OPERATING STATUS AND SHALL SIGNAL AN ALARM IN THE EVENT OF A FAN FAILURE AND THE FAN ISOLATION DAMPER SHALL CLOSE AND THE STANDBY AIR HANDLER SHALL BE ENABLED.

UNOCCUPIED MODE - THE SUPPLY FANS SHALL BE ON AND SHALL OPERATE ACCORDING TO OCCUPIED MODE TO MAINTAIN PROPER SPACE PRESSURIZATION AS WELL AS TO MAINTIAN MAKEUP AIR FOR FUME HOODS.

SUPPLY DUCT PRESSURIZATION CONTROL

THE VARIABLE FREQUENCY DRIVES SHALL MODULATE THE SUPPLY FAN MOTOR SPEEDS TO MAINTAIN THE STATIC PRESSURE SETPOINT AS DETERMINED BY A STATIC PRESSURE SENSOR AND TRANSMITTER LOCATED IN THE SUPPLY DUCT AS INDICATED. THE SENSOR MUST BE MOUNTED IN A NON-TURBULENT LOCATION. LOCATION TO BE DETERMINED ON CONTRACTOR SHOP DRAWINGS AND RECOMMENDATIONS BY CONTROLS CONTRACTOR.

AIR HANDLING UNIT PRESSURIZATION

A DIFFERENTIAL PRESSURE SENSOR AND TRANSMITTER WILL MEASURE FAN DISCHARGE AIR PRESSURE WITHIN THE AIR HANDLING UNIT AND WILL SIGNAL AN ALARM AN SHUTOFF ALL FANS IN THE EVENT OF A HIGH PRESSURE CONDITION.

SUPPLY AIR TEMPERATURE CONTROL

OCCUPIED MODE - THE DX COMPRESSOR SHALL BE ENABLED AND MODULATED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.

TEMPERATURE RESET: - THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET THROUGH A RANGE OF 53 DEG F TO 60 DEG F BASED ON SPACE TEMPERATURE AND AND REHEAT VALVE POSITION INFORMATION AS TRANSMITTED TO THE AHU CONTROL PANEL BY THE ZONE CONTROLLER.

FILTERS

A DIFFERENTIAL PRESSURE TRANSMITTER LOCATED ACROSS THE FILTERS SHALL SIGNAL AN ALARM WHEN THE PRESSURE DROP ACROSS THE FILTER REACHES SETPOINT AS SHOWN.

ALARMS

THE CONTROLS CONTRACTOR SHALL ADJUST CURRENT TRANSDUCER SETTING SO THAT IN THE EVENT A BELT BREAKS OR FALLS OFF OF ITS PULLEY A MOTOR SPINNING WITH NO LOAD WILL GENERATE AN ALARM.

GENERAL ALARMS SHALL INCLUDE

-FAN FAILURE
-COMPRESSOR FAILURE
-FILTER-1
-FILTER-2
-MOISTURE ELIMINATOR
-HIGH STATIC
-HIGH LAT
-LOW LAT
-SMOKE DECTOR

ALARMS AND STATUS

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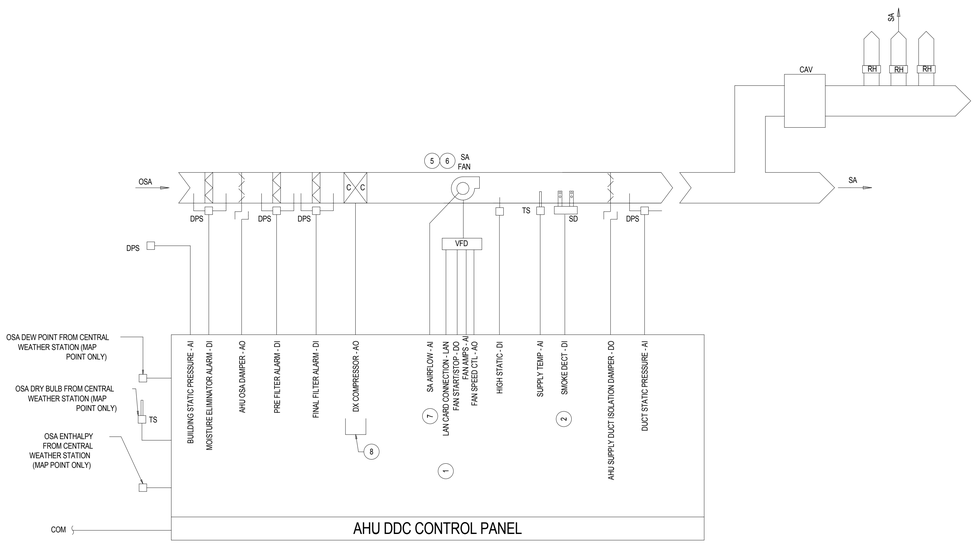
-FAN "ON/OFF" STATUS
-FAN SPEED
-FAN ALARM
-VFD OUTPUT FREQUENCY
-VFD INTERNAL ENCLOSURE TEMPERATURE
** CONTRACTOR TO PROVIDE LIST OF AVAILABLE POINTS



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SHEET NOTES

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2. THE CONTROLS TRANSFORMER SHALL BE FURNISHED BY CONTROLS CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTROLS TRANSFORMER SHALL PROVIDE LOW VOLTAGE POWER TO A MAXIMUM (5) FIVE DDC CONTROLLERS.

NOTES

1. CONTROLS CONTRACTOR SHALL CONNECT VFD TO LAN AND MAP OVER 15 DATA POINTS. SUBMIT LIST OF AVAILABLE POINTS FOR SELECTION. PROVIDE ALL GRAPHICS AND PROGRAMMING.
2. SMOKE DETECTOR WITH ADDRESSABLE RELAY. HARD WIRE SHUTDOWN TO FAN VFD.
3. PROVIDE AND INSTALL A STATIC PRESSURE SENSOR IN DUCTWORK HARD WIRE BACK TO AHU CONTROL ASSOCIATED WITH THE STATIC PRESSURE SENSOR.
4. SEE GENERAL ARRANGEMENT DRAWINGS FOR NUMBER OF DAMPERS AND ACTUATORS PROVIDE IN AIR HANDLING UNITS.
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8. SEE MECHANICAL SCHEDULES FOR MINIMUM NUMBER OF STAGES OF COOLING. REFER TO APPROVED MECH SUBMITTAL FOR COORDINATION WITH CONTROLS SUBMITTAL.

100% AIR HANDLING UNIT CONTROLS SCHEMATIC (AHU-2) - GENERAL LABS

SCALE	2
NONE	

2.2

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL CONTROLS

Sheet No.

2M-403

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

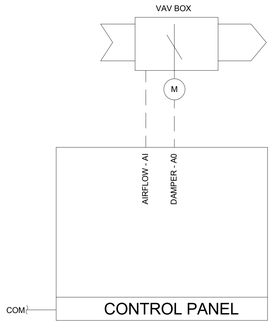
SEQUENCE OF OPERATION

BUILDING LABORATORY AIR EXHAUST AIR VALVE

BUILDING EXHAUST AIR VALVES EXHAUST BUILDING AIR TO CONSTANT VOLUME LABS LOCATED THROUGHOUT THE BUILDING.

WHENEVER LABORATORIES ARE SCHEDULED AS OCCUPIED THE AIR VALVES SHALL BE MODULATED OPEN AND SHALL MAINTAIN A CONSTANT SUPPLY AIRFLOW AS SCHEDULED.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- LOW OR NO AIRFLOW WHEN COMMANDED OPEN.
- AIRFLOW WHEN COMMANDED CLOSED.



BUILDING EXHAUST AIR VALVE CONTROLS (LABORATORIES)

SCALE NONE | 3

SEQUENCE OF OPERATION

CONSTANT VOLUME LABORATORY // REHEAT COIL

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
- A 72°F (ADJ.) COOLING SETPOINT.
- A 70°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO MAKE MINOR ADJUSTMENTS TO THE ZONE TEMPERATURE HEATING, HUMIDITY (ONLY), AND COOLING SETPOINTS AT THE ZONE SENSOR.

OCCUPIED:
- WHEN ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

REHEATING - HIGH DISCHARGE AIR TEMPERATURE LIMIT:
THE CONTROLLER SHALL MEASURE THE DISCHARGE AIR TEMPERATURE AND LIMIT REHEATING IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 120°F (ADJ.)

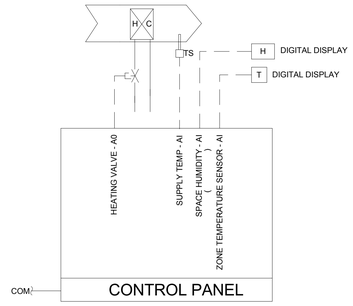
DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).

HOLDING ROOM OCCUPIED MODE SETPOINT.

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
- A 80°F (ADJ.) COOLING SETPOINT.
- A 80°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).



REHEAT COIL CONTROLS SCHEMATIC

SCALE NONE | 1

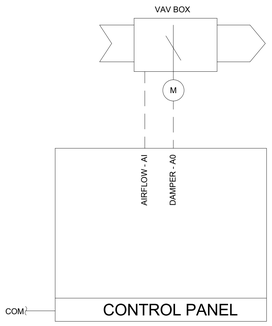
SEQUENCE OF OPERATION

BUILDING LABORATORY AIR SUPPLY AIR VALVE

BUILDING SUPPLY AIR VALVES SUPPLY BUILDING AIR TO CONSTANT VOLUME LABS LOCATED THROUGHOUT THE BUILDING.

WHENEVER LABORATORIES ARE SCHEDULED AS OCCUPIED THE AIR VALVES SHALL BE MODULATED OPEN AND SHALL MAINTAIN A CONSTANT SUPPLY AIRFLOW AS SCHEDULED.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- LOW OR NO AIRFLOW WHEN COMMANDED OPEN.
- AIRFLOW WHEN COMMANDED CLOSED.



BUILDING OSA AIR VALVE CONTROLS (LABORATORIES)

SCALE NONE | 2

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

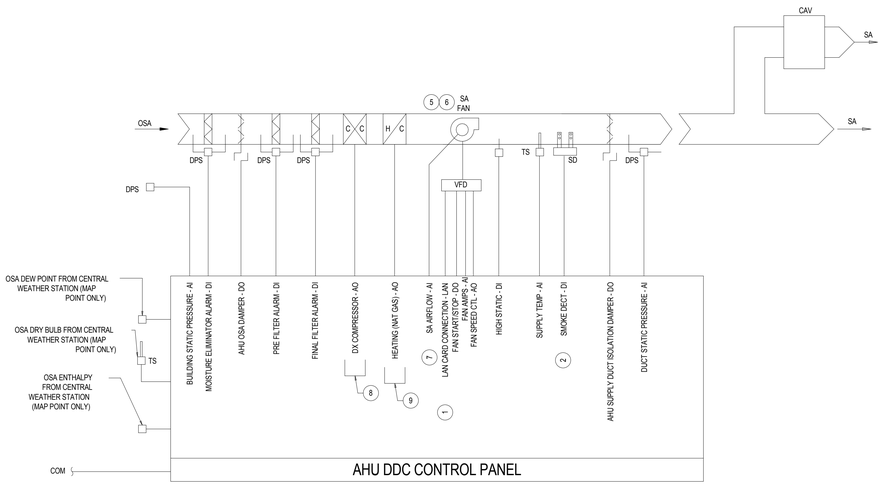
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL CONTROLS

Sheet No.
2M-404

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



SEQUENCE OF OPERATION (DOAS-1&2)

OCCUPIED, UNOCCUPIED AND VENTILATION DELAY MODES OF OPERATIONS

OCCUPIED AND UNOCCUPIED MODES SHALL BE BASED ON SCHEDULED OCCUPANCY.

SUPPLY FAN CONTROL

OCCUPIED MODE - THE SUPPLY FANS SHALL START AND OPERATE CONTINUOUSLY. A CURRENT SENSING RELAY SHALL MONITOR FAN OPERATING STATUS AND SHALL SIGNAL AN ALARM IN THE EVENT OF A FAN FAILURE AND THE FAN ISOLATION DAMPER SHALL CLOSE.

UNOCCUPIED MODE - THE SUPPLY FANS SHALL BE ON AND SHALL OPERATE ACCORDING TO OCCUPIED MODE TO MAINTAIN PROPER SPACE PRESSURIZATION AS WELL AS TO MAINTIAN MAKEUP AIR FOR FUME HOODS.

SUPPLY DUCT PRESSURIZATION CONTROL

THE VARIABLE FREQUENCY DRIVES SHALL MODULATE THE SUPPLY FAN MOTOR SPEEDS TO MAINTAIN THE STATIC PRESSURE SETPOINT AS DETERMINED BY A STATIC PRESSURE SENSOR AND TRANSMITTER LOCATED IN THE SUPPLY DUCT AS INDICATED. THE SENSOR MUST BE MOUNTED IN A NON-TURBULENT LOCATION. LOCATION TO BE DETERMINED ON CONTRACTOR SHOP DRAWINGS AND RECOMMENDATIONS BY CONTROLS CONTRACTOR.

AIR HANDLING UNIT PRESSURIZATION

A DIFFERENTIAL PRESSURE SENSOR AND TRANSMITTER WILL MEASURE FAN DISCHARGE AIR PRESSURE WITHIN THE AIR HANDLING UNIT AND WILL SIGNAL AN ALARM AN SHUTOFF ALL FANS IN THE EVENT OF A HIGH PRESSURE CONDITION.

SUPPLY AIR TEMPERATURE CONTROL

OCCUPIED MODE - THE COOLING COIL VALVE AND HEATING COIL VALVE SHALL MODULATE WITHOUT OVERLAP TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.

UNOCCUPIED MODE - THE COOLING COIL VALVE AND HEATING COIL VALVES SHALL BE CLOSED,

TEMPERATURE RESET: - THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET THROUGH A RANGE OF 53 DEG F TO 60 DEG F BASED ON SPACE TEMPERATURE AND AND REHEAT VALVE POSITION INFORMATION AS TRANSMITTED TO THE AHU CONTROL PANEL BY THE ZONE CONTROLLER.

FILTERS

A DIFFERENTIAL PRESSURE TRANSMITTER LOCATED ACROSS THE FILTERS SHALL SIGNAL AN ALARM WHEN THE PRESSURE DROP ACROSS THE FILTER REACHES SETPOINT AS SHOWN.

ALARMS

THE CONTROLS CONTRACTOR SHALL ADJUST CURRENT TRANSDUCER SETTING SO THAT IN THE EVENT A BELT BREAKS OR FALLS OFF OF ITS PULLEY A MOTOR SPINNING WITH NO LOAD WILL GENERATE AN ALARM.

GENERAL ALARMS SHALL INCLUDE

-FAN FAILURE
-COMPRESSOR FAILURE
-FILTER-1
-FILTER-2
-MOISTURE ELIMINATOR
-HIGH STATIC
-HIGH LAT
-LOW LAT
-SMOKE DECTOR

ALARMS AND STATUS

FAN ALARMS AND STATUS INFORMATION FROM THE FAN VFD SHALL BE MAPPED TO THE BUILDING MANAGEMENT SYSTEM. A MINIMUM OF 15 POINTS SHALL BE MAPPED INTO THE BMS. POINTS SHALL INCLUDE:

-FAN "ON/OFF" STATUS
-FAN SPEED
-FAN ALARM
-VFD OUTPUT FREQUENCY
-VFD INTERNAL ENCLOSURE TEMPERATURE
** CONTRACTOR TO PROVIDE LIST OF AVAILABLE POINTS

SHEET NOTES

1. CONTROLS POWER SHALL BE PROVIDED BY TRANSFORMERS FURNISHED BY THE CONTROLS CONTRACTOR. LINE VOLTAGE (120V1PH) SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS SHOWN ON THE ELECTRICAL PLANS. ADDITIONAL ELECTRICAL POWER JUNCTION BOX LOCATIONS NEEDED BY THE CONTROLS CONTRACTOR SHALL BE COORDINATED DURING THE SUBMITTAL PROCESS WITH THE DESIGN TEAM.
2. THE CONTROLS TRANSFORMER SHALL BE FURNISHED BY CONTROLS CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTROLS TRANSFORMER SHALL PROVIDE LOW VOLTAGE POWER TO A MAXIMUM (5) FIVE DDC CONTROLLERS.

NOTES

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8. SEE MECHANICAL SCHEDULES FOR MINIMUM NUMBER OF STAGES OF COOLING. REFER TO APPROVED MECH SUBMITTAL FOR COORDINATION WITH CONTROLS SUBMITTAL.
9. NAT GAS FURNACE.

2.2

DEDICATED OUTSIDE AIR UNIT CONTROLS SCHEMATIC (DOAS-1 & 2)

SCALE: NONE | 1

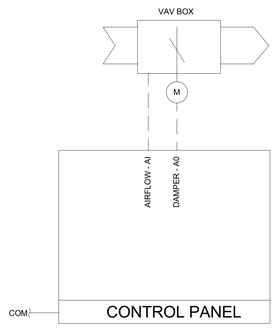
SEQUENCE OF OPERATION

BUILDING EXHAUST AIR SUPPLY AIR VALVE

BUILDING EXHAUST AIR VALVES RELIEVE THE BUILDING OUTSIDE AIR SUPPLIED TO FANCOILS LOCATED THROUGHOUT THE BUILDING.

WHENEVER AN ASSOCIATED/TRACKED AIR VALVE IS COMMANDED OPEN THE EXHAUST AIR VALVE SHALL BE OPEN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- LOW OR NO AIRFLOW WHEN COMMANDED OPEN.
- AIRFLOW WHEN COMMANDED CLOSED.



BUILDING EXHAUST AIR VALVE CONTROLS (DOAS SYSTEMS)

SCALE: NONE | 3

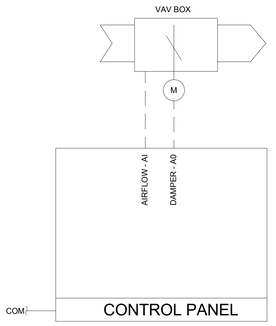
SEQUENCE OF OPERATION

BUILDING OUTSIDE AIR SUPPLY AIR VALVE

BUILDING SUPPLY AIR VALVES SUPPLY BUILDING OUTSIDE AIR TO VRF FANCOILS LOCATED THROUGHOUT THE BUILDING.

WHENEVER ASSOCIATED FANCOILS ARE IN OCCUPIED MODE THE BUILDING O.A. AIR VALVES SHALL OPEN AND PROVIDE THE SCHEDULED AIRFLOW QUANTITY.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- LOW OR NO AIRFLOW WHEN COMMANDED OPEN.
- AIRFLOW WHEN COMMANDED CLOSED.



BUILDING OSA AIR VALVE CONTROLS (DOAS SYSTEMS)

SCALE: NONE | 2

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL CONTROLS

Sheet No.
2M-405

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DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

SEQUENCE OF OPERATION

VARIABLE AIR VOLUME - AC 1

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN BASED UPON AN OPERATOR ADJUSTABLE SCHEDULE.

HIGH STATIC SHUTDOWN:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN HIGH STATIC SHUTDOWN SIGNAL.

SUPPLY AIR SMOKE DETECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SUPPLY AIR SMOKE DETECTOR STATUS.

AHU OPTIMAL START:
THE UNIT SHALL START PRIOR TO SCHEDULED OCCUPANCY BASED ON THE TIME NECESSARY FOR THE ZONES TO REACH THEIR OCCUPIED SETPOINTS. THE START TIME SHALL AUTOMATICALLY ADJUST BASED ON CHANGES IN OUTSIDE AIR TEMPERATURE AND ZONE TEMPERATURES.

SUPPLY FAN:
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

SUPPLY AIR DUCT STATIC PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND SHALL MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE THE SPEED SHALL NOT DROP BELOW 30% (ADJ). THE STATIC PRESSURE SETPOINT SHALL BE RESET BASED ON VAV TERMINAL REQUIREMENTS.
- INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE 1.5 IN (ADJ)
- AS ZONE AIRFLOW REQUIREMENTS INCREASE THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 1.8 IN (ADJ)
- AS ZONE AIRFLOW REQUIREMENTS DECREASE THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 1.3 IN (ADJ)

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
- LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.
- SUPPLY FAN VFD FAULT.

RETURN FAN:
THE RETURN FAN SHALL RUN WHENEVER THE SUPPLY FAN RUNS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
RETURN FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
RETURN FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
RETURN FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

BUILDING STATIC PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE BUILDING STATIC PRESSURE AND MODULATE THE RETURN FAN SPEED TO MAINTAIN A BUILDING STATIC PRESSURE SETPOINT OF 0.05 IN H2O (ADJ.).
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
- LOW BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.

SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT RESET BASED ON ZONE COOLING AND HEATING REQUIREMENTS
THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR COOLING BASED ON ZONE COOLING REQUIREMENTS AS FOLLOWS:
- THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 55°F (ADJ.).
- AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 53°F (ADJ.).
- AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 72°F (ADJ.).

SUPPLY AIR TEMPERATURE SETPOINT - HIGH HUMIDITY CONTROL:
THE CONTROLLER SHALL MONITOR THE RETURN AIR HUMIDITY LEVELS.
- AS HUMIDITY LEVELS INCREASE AND APPROACH 60% RH THE CONTROLLER SHALL OVERRIDE THE OPTIMIZED SETPOINT AND THE SUPPLY AIR DISCHARGE SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 53°F (ADJ.) UNTIL HUMIDITY STABILIZE AT AN RETURN AIR HUMIDITY OF 55% R.H.

COOLING STAGES:
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE COOLING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE ECONOMIZER (IF PRESENT) IS DISABLED OR FULLY OPEN.
- AND THE SUPPLY FAN STATUS IS ON.
-

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.

LOW SUPPLY AIR TEMPERATURE ALARM:
THE CONTROLLER SHALL ALARM IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

ECONOMIZER:
THE CONTROLLER SHALL MEASURE THE MIXED AIR TEMPERATURE AND MODULATE THE ECONOMIZER DAMPERS IN SEQUENCE TO MAINTAIN A SETPOINT 2°F (ADJ.) LESS THAN THE SUPPLY AIR TEMPERATURE SETPOINT. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION OF 20% (ADJ.) OPEN WHENEVER OCCUPIED.

THE ECONOMIZER SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE OUTSIDE AIR ENTHALPY IS LESS THAN 22BTU/LB (ADJ.)
- AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE.
- AND THE OUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY.
- AND THE SUPPLY FAN STATUS IS ON.

THE ECONOMIZER SHALL CLOSE WHENEVER:
- MIXED AIR TEMPERATURE DROPS BELOW 40°F (ADJ.)
- OR ON LOSS OF SUPPLY FAN STATUS.

THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN WHEN THE UNIT IS OFF. DURING OPTIMAL START UP THE MIXED AIR DAMPER SHALL OPERATE AS DESCRIBED IN THE OCCUPIED MODE EXCEPT THAT THE OUTSIDE AIR DAMPER SHALL MODULATE TO FULLY CLOSED.

MINIMUM OUTSIDE AIR VENTILATION:
WHEN IN THE OCCUPIED MODE, THE CONTROLLER SHALL MEASURE THE OUTSIDE AIRFLOW AND MODULATE THE OUTSIDE AIR DAMPERS TO MAINTAIN THE PROPER MINIMUM OUTSIDE AIR VENTILATION.

PRE-FILTER DIFFERENTIAL PRESSURE MONITOR:
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE PREFILTER.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- PREFILTER CHANGE REQUIRED: PREFILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

FINAL FILTER DIFFERENTIAL PRESSURE MONITOR:
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FINAL FILTER.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FINAL FILTER CHANGE REQUIRED: FINAL FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

MIXED AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE AND USE AS REQUIRED FOR ECONOMIZER CONTROL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
- LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

RETURN AIR TEMPERATURE (HUMIDITY):
THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND HUMIDITY AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH RETURN AIR TEMP: IF THE TEMPERATURE IS GREATER THAN 90°F (ADJ.).
- HIGH RETURN AIR HUMIDITY: IF THE HUMIDITY IS GREATER THAN 65% R.H. (ADJ.)
- LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

SUPPLY AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 75°F (ADJ.).
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN45°F (ADJ.).

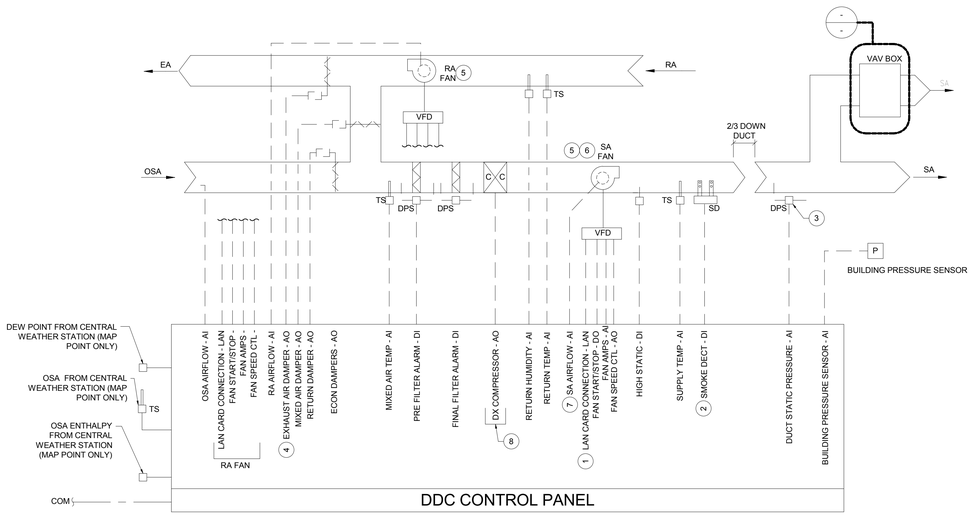
ECONOMIZER FAULT DETECTION:
THE DDC SHALL MEET ALL ENERGY CODE REQUIREMENTS FOR SYSTEM ECONOMIZER FAULT DETECTION PER SECTION 120.2(i)

THE CONTROLLER SHALL PROVIDE SYSTEM STATUS BY INDICATING THE FOLLOWING CONDITIONS:
A. FREE COOLING AVAILABLE
B. ECONOMIZER ENABLED
C. COMPRESSOR ENABLED
D. HEATING ENABLED
E. MIXED AIR LOW LIMIT CYCLE ACTIVE

6. THE UNIT CONTROLLER SHALL MANUALLY INITIATE EACH OPERATING MODE SO THAT THE OPERATION OF COMPRESSORS, ECONOMIZERS, FANS, AND HEATING SYSTEM CAN BE INDEPENDENTLY TESTED AND VERIFIED.

7. FAULTS SHALL BE REPORTED TO A FAULT MANAGEMENT APPLICATION ACCESSIBLE BY DAY-TO-DAY OPERATING OR SERVICE PERSONNEL, OR ANNUNCIATED LOCALLY ON ZONE THERMOSTATS

8. THE FDD SYSTEM SHALL DETECT THE FOLLOWING FAULTS:
A. AIR TEMPERATURE SENSOR FAILURE/FAULT
B. NOT ECONOMIZING WHEN IT SHOULD
C. ECONOMIZING WHEN IT SHOULD NOT
D. DAMPER NOT MODULATING
E. EXCESS OUTDOOR AIR



DETAIL NOTES

1. CONTROLS POWER SHALL BE PROVIDED BY TRANSFORMERS FURNISHED BY THE CONTROLS CONTRACTOR. LINE VOLTAGE (120V/1PH) SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS SHOWN ON THE ELECTRICAL PLANS. ADDITIONAL ELECTRICAL POWER JUNCTION BOX LOCATIONS NEEDED BY THE CONTROLS CONTRACTOR SHALL BE COORDINATED DURING THE SUBMITTAL PROCESS WITH THE DESIGN TEAM.
2. THE CONTROLS TRANSFORMER SHALL BE FURNISHED BY CONTROLS CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTROLS TRANSFORMER SHALL PROVIDE LOW VOLTAGE POWER TO A MAXIMUM (5) FIVE DDC CONTROLLERS.

NOTES

1. CONTROLS CONTRACTOR SHALL CONNECT VFD TO LAN AND MAP OVER 15 DATA POINTS. SUBMIT LIST OF AVAILABLE POINTS FOR SELECTION. PROVIDE ALL GRAPHICS AND PROGRAMMING.
2. SMOKE DETECTOR WITH ADDRESSABLE RELAY. HARD WIRE SHUTDOWN TO FAN VFD.
3. PROVIDE AND INSTALL A STATIC PRESSURE SENSOR IN DUCTWORK HARD WIRE BACK TO AHU CONTROL ASSOCIATED WITH THE STATIC PRESSURE SENSOR.
4. SEE GENERAL ARRANGEMENT DRAWINGS FOR NUMBER OF DAMPERS AND ACTUATORS PROVIDE IN AIR HANDLING UNITS.
5. SEE SCHEDULES / GENERAL ARRANGEMENT DRAWINGS FOR NUMBER OF FANS/DAMPER ACTUATORS PROVIDED.
6. VFD IS PROVIDED BY AHU MANUFACTURER. SEE SCHEDULES / GENERAL ARRANGEMENT DRAWINGS FOR NUMBER OF FANS/VFDs.
7. FAN AIRFLOW MONITOR BY AHU MANUFACTURER. SEE GENERAL ARRANGEMENT DRAWINGS FOR NUMBER OF FANS.
8. SEE MECHANICAL SCHEDULES FOR MINIMUM NUMBER OF STAGES OF COOLING. REFER TO APPROVED MECH SUBMITTAL FOR COORDINATION WITH CONTROLS SUBMITTAL.

RECIRCULATING AC UNIT CONTROLS SCHEMATIC (AC-1)

SCALE NONE

1

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GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET
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2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL CONTROLS

Sheet No.
2M-406

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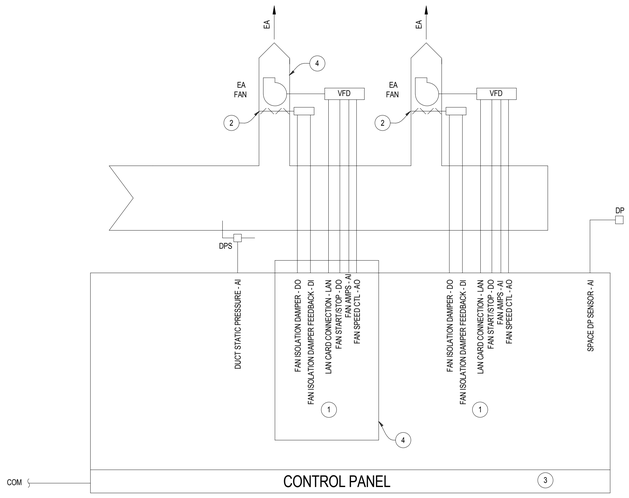


EXHAUST FANS CONTROLS SCHEMATIC

SCALE: NONE

1

NOTES

1. CONTROLS CONTRACTOR SHALL CONNECT VFD TO LAN AND MAP OVER 15 DATA POINTS. SUBMIT LIST OF AVAILABLE POINTS FOR SELECTION. PROVIDE ALL GRAPHICS AND PROGRAMMING.
2. FAN MANUFACTURER PROVIDE EXHAUST PLENUM AND DAMPERS.
3. CONTROL PANEL FOR LABORATORY EXHAUST FANS AND EQUIPMENT ON EMERGENCY POWER SHALL BE POWERED FROM AN EMERGENCY POWER CIRCUIT.
4. SEE MECHANICAL SCHEDULE AND FLOOR PLANS FOR FAN QUANTITY AND LAYOUT.

SEQUENCE OF OPERATION

EXHAUST FANS WILL RUN CONTINUOUSLY. IN THE EVENT OF A FAILURE OF BOTH SUPPLY AIR HANDLERS, THE BMS SHALL SEND A HIGH LEVEL ALARM AND THE EXHAUST FAN SHALL TEMPORARILY RAMP DOWN TO RELIEVE ROOM PRESSURIZATION TO MAINTAIN EXITING REQUIREMENTS. EXHAUST FAN SPEED DURING A FAILURE EVENT SHALL BE DETERMINED BY THE TEST AND BALANCE CONTRACTOR.

AHU 1A / AHU 1B / EF 1A / EF 1B

SYSTEM REDUNDANCY

EXHAUST FANS CONFIGURED FOR STANDBY-DUTY OPERATION.

ONCE A START COMMAND IS GENERATED, THE DUTY EXHAUST FAN SHALL RAMP UP TO THE SPEED SETPOINT IN THE VFD CONTROL PANEL. ISOLATION DAMPER ON THE STAND-BY FAN SHALL BE CLOSED.

FANS SHALL ROTATE DUTY FOR EQUAL WEAR.

IF THE FAN STATUS DOES NOT MATCH THE COMMANDED VALUE, AN ALARM WILL BE GENERATED AND THE STANDBY FAN SHALL BE ENABLED.

THE CONTROLS CONTRACTOR SHALL ADJUST CURRENT TRANSDUCER SETTING SO THAT IN THE EVENT A BELT BREAKS OR FALLS OFF OF ITS PULLEY A MOTOR SPINNING WITH NO LOAD WILL GENERATE AN ALARM.

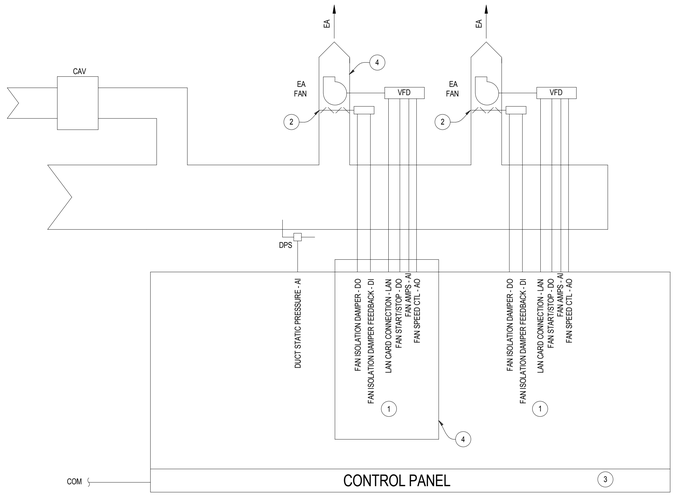
ALARMS

THE CONTROLS CONTRACTOR SHALL ADJUST CURRENT TRANSDUCER SETTING SO THAT IN THE EVENT A BELT BREAKS OR FALLS OFF OF ITS PULLEY A MOTOR SPINNING WITH NO LOAD WILL GENERATE AN ALARM.

ALARMS AND STATUS

FAN ALARMS AND STATUS INFORMATION FROM THE VFD SHALL BE MAPPED TO THE BUILDING MANAGEMENT SYSTEM. A MINIMUM OF 15 POINTS SHALL BE MAPPED INTO THE BMS. POINTS SHALL INCLUDE:

-FAN "ON/OFF" STATUS
-FAN SPEED
-FAN ALARM
-VFD OUTPUT FREQUENCY
-VFD INTERNAL ENCLOSURE TEMPERATURE
** CONTRACTOR TO PROVIDE LIST OF AVAILABLE POINTS



(MULTIPLE) BUILDING GENERAL EXHAUST FANS CONTROLS SCHEMATIC

SCALE: NONE

2

NOTES

1. CONTROLS CONTRACTOR SHALL CONNECT VFD TO LAN AND MAP OVER 15 DATA POINTS. SUBMIT LIST OF AVAILABLE POINTS FOR SELECTION. PROVIDE ALL GRAPHICS AND PROGRAMMING.
2. FAN MANUFACTURER PROVIDE EXHAUST PLENUM AND DAMPERS.
3. CONTROL PANEL FOR LABORATORY EXHAUST FANS AND EQUIPMENT ON EMERGENCY POWER SHALL BE POWERED FROM AN EMERGENCY POWER CIRCUIT.
4. SEE MECHANICAL SCHEDULE AND FLOOR PLANS FOR FAN QUANTITY AND LAYOUT.

SEQUENCE OF OPERATION

BUILDING EXHAUST FAN OPERATION SHALL BE INTERLOCKED WITH BUILDING DOAS OPERATION.

DOAS 1 / EF 3A / EF 3B

DOAS 2 / EF 5A / EF 5B

SYSTEM REDUNDANCY

EXHAUST FANS CONFIGURED FOR PARALLEL OPERATION.

ONCE A START COMMAND IS GENERATED, THE EXHAUST FANS SHALL BE ENABLED AND RAMPED UP TO THE SPEED BY THE VFD.

EXHAUST AIRFLOW REQUIREMENTS SHALL VARY AND SHALL BE PROVIDED AS REQUIRED BY THE EXHAUST AIR VALVES LOCATED ON EACH FLOOR.

EXHAUST FAN CONTROL

THE VARIABLE FREQUENCY DRIVES SHALL MODULATE THE EXHAUST FAN MOTOR SPEEDS TO MAINTAIN THE STATIC PRESSURE SETPOINT AND AIRFLOW REQUIREMENTS TO THE CONSTANT VOLUME AIR VALVES LOCATED THROUGHOUT THE BUILDING. THE SENSOR MUST BE MOUNTED IN A NON-TURBULENT LOCATION. LOCATION TO BE DETERMINED ON CONTRACTOR SHOP DRAWINGS AND RECOMMENDATIONS BY CONTROLS CONTRACTOR.

FLOOR EXHAUST VALVES.

EXHAUST VALVES SHALL BE LOCATED ON EACH FLOOR. AIRFLOW TO EACH FLOOR SHALL BE MONITORED AND TRACKED WITH SUPPLY AND EXHAUST AIR VALVES TO PROVIDE A SLIGHT POSITIVE BUILDING PRESSURE

FAN FAILURE

IF THE FAN STATUS DOES NOT MATCH THE COMMANDED VALUE, AN ALARM WILL BE GENERATED. AND THE ISOLATION DAMPER ON THE FAILED FAN SHALL BE CLOSED. THE REMAINING FAN SHALL BE RAMPED UP TO PROVIDE BUILDING EXHAUST.

THE BUILDING SUPPLY AIR TO BE TEMPORARILY REDUCED IN NON CRITICAL OFFICE AREAS TO MAIN SAFE BUILDING PRESSURE LEVELS.

ALARMS

THE CONTROLS CONTRACTOR SHALL ADJUST CURRENT TRANSDUCER SETTING SO THAT IN THE EVENT A BELT BREAKS OR FALLS OFF OF ITS PULLEY A MOTOR SPINNING WITH NO LOAD WILL GENERATE AN ALARM.

2.2.

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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CITY SUBMITTAL SET
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Sheet Title
MECHANICAL CONTROLS

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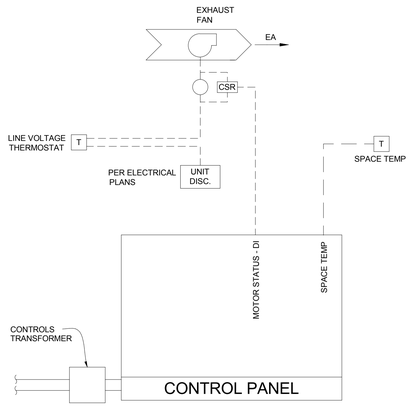
SEQUENCE OF OPERATION

RUN CONDITIONS - SCHEDULED:
THE FAN SHALL RUN ACCORDING TO A WALL MOUNTED LINE VOLTAGE THERMOSTAT

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- AN ALARM SHALL BE GENERATED IF THE SPACE TEMPERATURE REACHES 105F
- AN ALARM SHALL BE GENERATED IF THE SPACE TEMPERATURE REACHES 85F AND THE TRANSFER FAN HAS NOT STARTED.



EXHAUST FAN WITH LINE VOLTAGE T-STAT CONTROLS SCHEMATIC — SCALE NONE — 1

SEQUENCE OF OPERATION

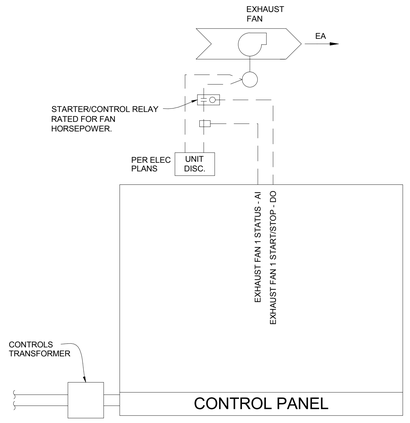
RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN BASED UPON AN OPERATOR ADJUSTABLE SCHEDULE.

MOTOR FAILURE
ALARMS SHALL BE PROVIDED AS FOLLOWS:

- AN ALARM SHALL BE GENERATED IF THE FAN IS COMMANDED "ON" AND THE FAN STATUS IS "OFF"

BELT FAILURE
(EXHAUST FANS WITH BELT DRIVES)

- AN ALARM SHALL BE GENERATED IF THE FAN IS COMMANDED "ON" AND THE FAN STATUS EXCEEDS THE ELECTRICAL AMPERAGE SETPOINT AS SET DURING TEST & BALANCE



GENERAL EXHAUST FAN CONTROLS SCHEMATIC — SCALE NONE — 1

GENERAL NOTES

1. SMOKE CONTROL EXHAUST SYSTEM CONTROLS BY OTHERS.

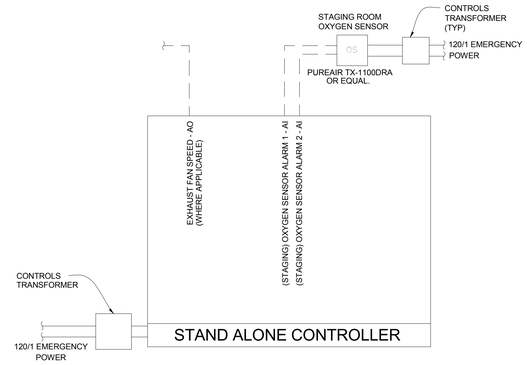
SMOKE CONTROL EXHAUST FANS CONTROLS SCHEMATIC — SCALE NONE — 2

O2 MONITORING

CYROGEN ROOM(S) AND PLUMBING UTILITY ROOMS HOUSING OXYGEN DISPLACING GASES OR EQUIPMENT SHALL BE SUPPLIED WITH OXYGEN SENSORS AND MONITORS

PER CFC 2704.3 THE STORAGE AREAS HAVE BEEN PROVIDED WITH AN EXHAUST FAN WITH A MINIMUM 1 CFM PER SQ. FT. FOR EMERGENCY EXHAUST VENTILATION.

THE STAGING AREA IS DESIGNED WITH AN OXYGEN SENSOR/MONITOR AND A SINGLE EXHAUST FAN. THE OXYGEN SENSOR SHALL ALARM WITH A 90 DECIBEL AUDIO ALARM AND SHALL SEND AN ALARM SIGNAL TO ACTIVATE AN ALARMS AND OVERRIDE EXHAUST FAN SPEEDS (WHERE APPLICABLE). ALL ASSOCIATED SYSTEMS REQUIRING OXYGEN MONITORING SYSTEMS SHALL BE CONNECTED TO EMERGENCY POWER.



SEQUENCE OF OPERATION

EMERGENCY VENTILATION PURGE SYSTEM SHALL BE ACTIVATED WHEN AN ALARM CONDITION FROM ROOM OXYGEN SENSOR IS RECEIVED.

ROOM OXYGEN MONITOR WITH DIGITAL DISPLAY, HIGH DECIBLE AUDIO ALARM, AND ALARM RELAYS FOR VENTILATION CONTROLS INTEGRATION. PUREAIR TX-1100DRA OR EQUAL. IS RECEIVED.

ONCE A START COMMAND IS GENERATED, THE EXHAUST FANS SHALL RAMP UP TO THE AIRFLOW AS INDICATED IN THE MECHANICAL SCHEDULES. THE FAN SHALL CONTINUE TO RUN UNTIL THE ALARM SIGNAL HAS BEEN SATISFIED. AFTER THE ALARM SIGNAL HAS BEEN SATISFIED THE FAN SHALL BE COMMANDED OFF.

THE STAND ALONE DDC CONTROLLER SHALL BE PROVIDED WITH A BUILT-IN VISUAL AND AUDIBLE INDICATOR WHEN THE EXHAUST FAN IS IN AN ALARM CONDITION.

MAINTENANCE OPERATION. THE EXHAUST FAN SHALL BE SCHEDULED TO RUN ONCE PER MONTH FOR A MINIMUM 30 MINUTES (ADJ). THE CONTROLS CONTRACTOR SHALL COORDINATE A SCHEDULED TIME WITH THE OWNER FOR WHEN THE FAN IS TO OPERATE IN "MAINTENANCE MODE".

PROVIDE DRY CONTACTS TO TIE INTO DDC SYSTEM.

ROOM WITH O2 SENSOR CONTROLS SCHEMATIC — SCALE NONE — 2

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
MECHANICAL CONTROLS

Sheet No.
2M-408

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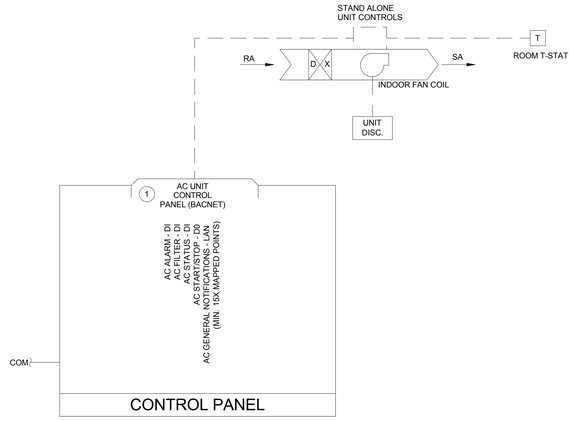
EQUIPMENT MANUFACTURER SUPPLIED CONTROLS COMPONENTS

1. DDC COMPONENTS, SENSORS, CONTROLLERS MAY BE SUPPLIED BY EQUIPMENT MANUFACTURERS BUT IT IS THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR THAT ALL APPROVED EQUIPMENT AND COMPONENTS ARE COMPATIBLE AND FULLY INTEGRATED INTO THE BUILDING MANAGEMENT SYSTEM PLANS AND SPECIFICATIONS.



SEQUENCE OF OPERATION

SPILT SYSTEM DX UNITS

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING USER INPUT SCHEDULE:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
A 72°F (ADJ.) COOLING SETPOINT
A 68°F (ADJ.) HEATING SETPOINT

- UNOCCUPIED MODE (NIGHT SETBACK): NONE. DURING INITIAL SETUP THE SYSTEM SHALL BE SET TO RUN IN OCCUPIED MODE 24/7 FOR 365-DAYS.

NOTES

1. CONTROLS CONTRACTOR SHALL CONNECT BMS AND MAP OVER 15 DATA POINTS. SUBMIT LIST OF AVAILABLE POINTS FOR SELECTION. PROVIDE ALL GRAPHICS AND PROGRAMMING.

-	SCALE NONE	3	STAND-ALONE DX SYSTEM CONTROLS SCHEMATIC (PACKAGE AND SPILT SYSTEMS)
			SCALE NONE 1

CONTROL POINTS MAPPED TO BLDG BMS

1. SYSTEM STATUS
2. OUTDOOR MODULE STATUS
3. OUTDOOR MODULE ALARM
4. ROOM SETPOINT
5. ROOM TEMPERATURE
6. FANCOIL AIRFLOW
7. FANCOIL ALARM
8. FANCOIL STATUS
9. FANCOIL FILTER STATUS (TIMED)

* THE VRF SYSTEM MANUFACTURER SHALL SUBMIT ALL AVAILABLE MAPPABLE POINTS. THE CONTROLS CONTRACTOR SHALL MAP A MINIMUM OF 30 POINTS FOR EACH OUTDOOR VRF MODULE. A MINIMUM 15 POINTS PER FANCOIL SHALL BE MAPPED-

FANCOIL CONDENSATE PUMP CONTROLS INTEGRATION

SELECT FAN COIL UNITS ARE PROVIDED WITH CONDENSATE PUMPS PER PLUMBING PLANS. PER PLUMBING PLANS THE CONDENSATE PUMPS ARE PROVIDED WITH OUTPUT SIGNAL FOR BMS INTEGRATION TO NOTIFY THE BMS WHEN CONDENSATE SYSTEMS ARE DISABLED.

UPON RECIEVING AN ALARM SYSTEM FROM A CONDENSATE PUMP, COOLING TO ASSOCIATED FANCOIL SYSTEMS SHALL BE DISABLED.

FANCOIL DOOR WINDOW SWITCH

THE FIRST FLOOR MULTIPURPOSE ROOM EXTERIOR DOORS AND WINDOWS SHALL BE PROVIDED WITH DOOR SWITCHES TO ENABLE AND DISABLE COOLING PER ENERGY CODE REQUIREMENTS.

UPON RECEIVING AN SIGNAL FOR 5-MINUTES (ADJ) OR GREATER, COOLING TO ASSOCIATED FANCOIL SYSTEMS SHALL BE DISABLED.

SEQUENCE OF OPERATION

VARIABLE REFRIGERANT VOLUME/FLOW SPILT SYSTEM

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING USER INPUT SCHEDULE:

OCCUPIED MODE: THE UNIT SHALL MAINTAIN
A 72°F (ADJ.) COOLING SETPOINT

UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
A 80°F (ADJ.) COOLING SETPOINT

SYSTEM ALARMS SHALL BE PROVIDED AS FOLLOWS:

- CONDENSER FAN STATUS. (MAPPED)
- COMPRESSOR STATUS. (MAPPED)
- REFRIGERANT TEMPERATURE.
- REFRIGERANT LOW FLOW.
- ROOM TEMPERATURE. (MAPPED)

ZONE SETPOINT ADJUST: THE OCCUPANT SHALL NOT BE ABLE TO ADJUST THE ZONE TEMPERATURE COOLING SETPOINTS AT THE ZONE SENSOR. MODIFICATIONS SHALL BE DONE AT THE BLDG CONTROLLER.

OCCUPIED MODE

- WHEN A ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE MULTIPLE FAN COILS SERVING A SINGLE ZONE SHALL ACT IN UNISON AND SLOWLY MODUATE OPEN THE DX EXPANSION VALVE(S). THE INDOOR FANCOIL FAN SHALL BE CONTROLLED BY THE VRV MANUFACTURER TO PREVENT COIL FREEZE UP. THE VRV VALVE SHALL CONTINUE TO OPEN UNTIL ZONE TEMPERATURE IS SATISFIED.

- WHEN THE ZONE TEMPERATURE IS BELOW THE COOLING SETPOINT, THE MODULATING DX EXPANSION VALVE SHALL BE SLOWLY CLOSED UNTIL ZONE TEMPERATURE IS STABILIZED.

SYSTEM OVERRIDE (VRF EMERGENCY SYSTEM ACTIVATION)
IF AN ALARM SIGNAL IS RECIEVED FROM BUILDING BMS THAT THE MECHANICAL SYSTEM SERVICING THE BMIA EQUIPMENT, MCI EQUIPMENT, OR LYOPHILIZER ROOM IS SHUT DOWN. THE VRF CONTROL SYSTEM SHALL OVERRIDE THE AFFECTED SPACES TO OCCUPIED MODE.

SYSTEM FAILURE ALARM.
IF THE VRF SYSTEM FAILS AN ALARM SHALL BE SENT TO THE MAIN BUILDING DDC CONTROLLER TO ACTIVATE THE ASSOCIATED AHU TO MAINTAIN SPACE TEMPERATURE IN THE BMIA EQUIPMENT, MCI EQUIPMENT, OR LYOPHILIZER ROOMS.

-	SCALE NONE	4	VRF SYSTEM SEQUENCE OF OPERATION AND BMS MAPPING POINT REQUIREMENTS
			SCALE NONE 2

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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CONTROL POINTS MAPPED TO BLDG BMS

1. SYSTEM STATUS
2. OUTDOOR MODULE STATUS
3. OUTDOOR MODULE ALARM
4. -
5. -
6. -
7. -
8. -
9. -
10. -
11. -
12. -
13. -
14. -

SEQUENCE OF OPERATION

VARIABLE REFRIGERANT VOLUME/FLOW SPILT SYSTEM

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING USER INPUT SCHEDULE:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
  - A 72°F (ADJ.) COOLING SETPOINT
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
  - A 80°F (ADJ.) COOLING SETPOINT

SYSTEM ALARMS SHALL BE PROVIDED AS FOLLOWS:

- CONDENSER FAN STATUS. (MAPPED)
- COMPRESSOR STATUS. (MAPPED)
- REFRIGERANT TEMPERATURE.
- REFRIGERANT LOW FLOW.
- ROOM TEMPERATURE. (MAPPED)

ZONE SETPOINT ADJUST: THE OCCUPANT SHALL NOT BE ABLE TO ADJUST THE ZONE TEMPERATURE COOLING SETPOINTS AT THE ZONE SENSOR. MODIFICATIONS SHALL BE DONE AT THE BLDG CONTROLLER.

OCCUPIED MODE:
- WHEN A ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE MULTIPLE FAN COILS SERVING A SINGLE ZONE SHALL ACT IN UNISON AND SLOWLY MODUATE OPEN THE DX EXPANSION VALVE(S). THE INDOOR FANCOIL FAN SHALL BE CONTROLLED BY THE VRV MANUFACTURER TO PREVENT COIL FREEZE UP. THE VRV VALVE SHALL CONTINUE TO OPEN UNTIL ZONE TEMPERATURE IS SATISFIED.

- WHEN THE ZONE TEMPERATURE IS BELOW THE COOLING SETPOINT, THE MODULATING DX EXPANSION VALVE SHALL BE SLOWLY CLOSED UNTIL ZONE TEMPERATURE IS STABILIZED.

SYSTEM OVERRIDE (VRF EMERGENCY SYSTEM ACTIVATION):
IF AN ALARM SIGNAL IS RECIEVED FROM BUILDING BMS THAT THE MECHANICAL SYSTEM SERVICING THE BMIA EQUIPMENT, MCI EQUIPMENT, OR LYOPHILIZER ROOM IS SHUT DOWN. THE VRF CONTROL SYSTEM SHALL OVERRIDE THE AFFECTED SPACES TO OCCUPIED MODE.

SYSTEM FAILURE ALARM.
IF THE VRF SYSTEM FAILS AN ALARM SHALL BE SENT TO THE MAIN BUILDING DDC CONTROLLER TO ACTIVATE THE ASSOCIATED AHU TO MAINTAIN SPACE TEMPERATURE IN THE BMIA EQUIPMENT, MCI EQUIPMENT, OR LYOPHILIZER ROOMS.

VRF SYSTEM SEQUENCE OF OPERATION AND BMS MAPPING POINT REQUIREMENTS

SCALE NONE 1

SEQUENCE OF OPERATION - DHW 1&2

THE DOMESTIC AND INDUSTRIAL HOT WATER SYSTEMS CONSIST OF TWO INDEPENDENT STORAGE TYPE WATER HEATERS AND TWO INDEPENDENT CIRCULATION LOOPS AND PUMPS

DHW LOOP TEMPERATURE

SYSTEM LOOP TEMPERATURE SHALL BE MAINTAINED BY SETPOINTS MANUALLY SET ON THE CIRCULATION PUMP AQUA STATS.

PER PLUMBING PLANS, THE AQUA STAT MINIMUM LOOP TEMPERATURE SETPOINT IS 110F.

SCHEDULING.

INITIAL SCHEDULE FOR THE SERVICE HOT WATER SYSTEMS SHALL BE SET FOR 24/7 (ADJ) BUILDING OPERATION. (CONTROLS START/STOP RELAY SHALL BE INSTALLED PER BUILDING ENERGY CODE REQUIREMENTS)

STATUS AND ALARMS

BMS SHALL ONLY MONITOR CIRCULATION PUMP STATUS AND LOOP TEMPERATURE.

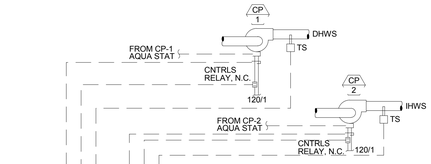
ALARM - CIRCULATION PUMP: SHALL BE GENERATED IF DURING AN OCCUPIED PERIOD IF THE LOOP TEMPERATURE IS BELOW 100F (ADJ). AND THE PUMP STATUS IS "OFF".

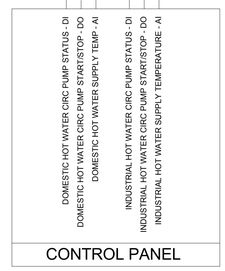
ALARM - CIRCULATION PUMP: SHALL BE GENERATED IF DURING AN OCCUPIED PERIOD IF THE LOOP TEMPERATURE IS ABOVE 130F (ADJ). AND THE PUMP STATUS IS "ON".

ALARM - WATER HEATER: SHALL BE GENERATED IF DURING AN OCCUPIED PERIOD IF THE LOOP TEMPERATURE IS BELOW 100F (ADJ).

ALARM - WATER HEATER: ALARM SHALL BE GENERATED IF DURING AN OCCUPIED PERIOD IF THE LOOP TEMPERATURE IS ABOVE 130F (ADJ).

POINTS LIST





CONTROL PANEL

DOMESTIC AND INDUSTRIAL HOT WATER SYSTEM

SCALE NONE 2

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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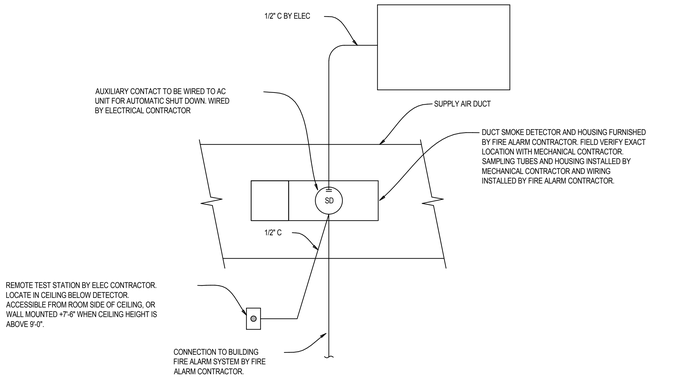
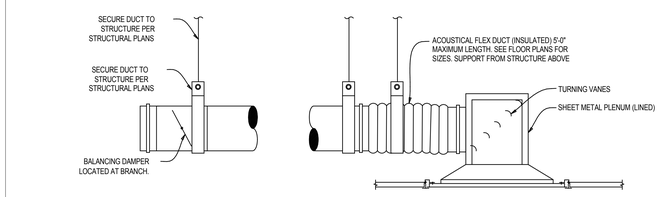


NOTE

REFER TO FIRE ALARM AND ELECTRICAL DRAWINGS FOR COMPLETE INFORMATION.

TYPICAL DUCT MOUNTED SMOKE DETECTOR

SCALE	
NONE	7



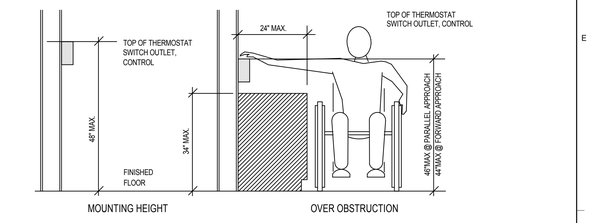
CONFERENCE ROOMS / LOW PROFILE/RECT. NECK DIFFUSERS AND GRILLES

NOTE

1. INSTALLATION SHALL BE USED WHERE CEILING SPACE IS LIMITED AND BEND RADIUS = 1.5 CONNECT BE ACHIEVED
2. FLEX DUCT MAXIMUM LENGTH SHALL BE 5'.
3. USE THIS TYPE OF CONNECTION IN THOSE PLACES WHERE CONNECTION FROM TOP IS IMPRACTICAL.
4. SEE SCHEDULE AND SPECIFICATIONS FOR AIR DISTRIBUTION TYPE.
5. WHERE FACTORY INSTALLED SHEET METAL FITTING ENDS ARE PROVIDED, ATTACH TO BRANCH DUCT WITH SHEET METAL SCREWS AND DUCT SEALER.
6. PROVIDE YOUNG REGULATOR CABLE OPERATED DAMPER (OR EQUAL). FOR AREAS WITH NO ACCESS TO DAMPERS.

TYP. CEILING DIFFUSER (LOW PROFILE)

SCALE	
NONE	4



THERMOSTAT MOUNTING HEIGHT

SCALE	
NONE	1

NOTES:
1. PROVIDE SLEEVE MOUNTED DUCT SMOKE DETECTOR WHEN LOCAL SMOKE DETECTION SYSTEMS ARE NOT AVAILABLE OR INSTALLED.
2. INSTALLATION : - INSTALL SMOKE/FIRE DAMPERS IN STRICT ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS AND THE PRODUCT LISTING. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO INSPECTING AUTHORITY. PROVIDE ACCESS LABELING AT CEILING TO IDENTIFY DAMPER LOCATION.
3. SEQUENCE OF OPERATIONS : - ACTIVATION OF DUCT TYPE SMOKE FIRE DAMPER SHALL CLOSE FIRE DAMPER. SHUT DOWN ASSOCIATED HVAC SYSTEM AND SEND A SIGNAL TO GENERAL BUILDING ALARM.

COMBINATION SMOKE FIRE DAMPER

SCALE	
NONE	8

SECTION A-A

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   a. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 IN. BY 4 IN. (51 MM BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE SPACED MAX 24 IN. (610 MM) OC.
   b. GYPSUM BOARD* - NOM 5/8 IN. (16 MM) THICK, 4 FT (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 10-1/2 IN. (267 MM).
2. THE HOURLY F AND T RATINGS FOR THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PENETRANTS TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBINGS MAY BE USED:
   a. STEEL PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   b. IRON PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   c. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT, OR NOM 4 IN. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
   d. COPPER TUBING - NOM 2 IN. (51 MM) DIAM (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBE.
   e. COPPER PIPE - NOM 2 IN. (51 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. PIPE COVERING* - NOM 1 IN. OR 1-1/2 IN. (25 MM OR 38 MM) THICK HOLLOW CYLINDRICAL HEAVY DENSITY GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SSL TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE ANNULAR SPACE BETWEEN THE INSULATED PIPE AND THE EDGE OF THE THROUGH OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-1/2 IN. (0 MM TO MAX 38 MM). SEE PIPE AND EQUIPMENT COVERING - MATERIALS (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED
4. FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/2 IN. (13 MM) DIAM BEAD OF CAULK APPLIED TO THE PIPE COVERING/GYPSUM BOARD INTERFACE AT THE POINT CONTACT LOCATION ON BOTH SIDES OF WALL. 3M COMPANY - FIREDAM 150+, IC 15W/8+ CAULK OR FB-3000 WT SEALANT.

*BEARING THE UL CLASSIFICATION MARK

FIRE RATED PIPE PENETRATION DETAIL

SCALE	
NONE	5

ROUND BRANCH DUCT CONNECTION

LINED DUCT CONNECTION
(NO EXPOSED LINING EDGES)

ROUND TOP TAKE-OFF FROM RECTANGULAR DUCT

CONICAL BRANCH DUCT CONNECTION

TYP. BRANCH DUCTWORK CONNECTIONS

SCALE	
NONE	2

REFRIGERANT PIPING THRU ROOF

SCALE	
NONE	9

GENERAL VAV TERMINAL DETAIL

SCALE	
NONE	6

NOTES

1. ROUND NECK CEILING DIFFUSER SHOWN. PROVIDE MANUFACTURERS STANDARD SQUARE TO ROUND ADAPTER FOR SQUARE NECK DIFFUSERS.
2. RETURN AND EXHAUST REGISTERS INSTALLED SIMILARLY. FLEX DUCT FOR RETURN AIR REGISTERS TO BE MINIMUM 60" LONG WITH MVD AND OPEN END DISCHARGE TO RETURN AIR CEILING PLENUM.
3. FOR HARD LID CEILINGS PROVIDE REFGISTER BOX AND SURFACE MOUNTED TYPE CEILING DIFFUSERS WITH OPPOSED BLADE DAMPERS.
4. SEE SCHEDULE AND SPECIFICATIONS FOR AIR DISTRIBUTION TYPE.
5. WHERE FACTORY INSTALLED SHEET METAL FITTING ENDS ARE PROVIDED, ATTACH TO BRANCH DUCT WITH SHEET METAL SCREWS AND DUCT SEALER.
6. PROVIDE YOUNG REGULATOR CABLE OPERATED DAMPER (OR EQUAL). FOR AREAS WITH NO ACCESS TO DAMPERS.

TYP. CEILING DIFFUSER

SCALE	
NONE	3

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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08.08.17

Sheet Title
MECHANICAL DETAILS

Sheet No.
2M-501

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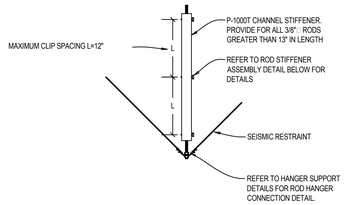
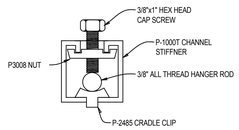


ELEVATION



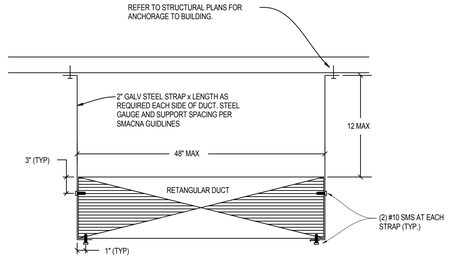
CHANNEL STIFFNER SECTION VIEW

NOTE

CHANNEL STIFFENERS REQUIRED AS DETERMINED BY SEISMIC EVALUATION REPORT (DEFERRED SUBMITTAL)

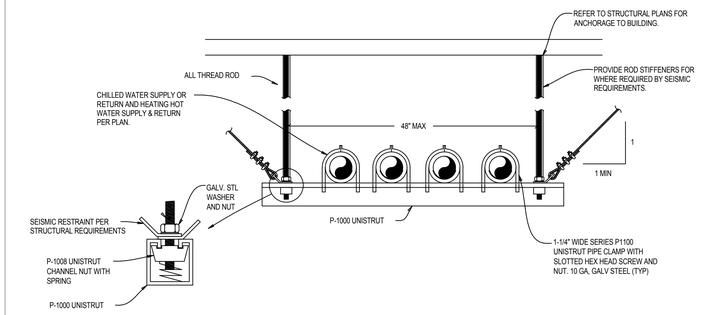
CHANNEL STIFFENER

SCALE	
NONE	7



RECTANGULAR DUCT STRAP SUPPORTS

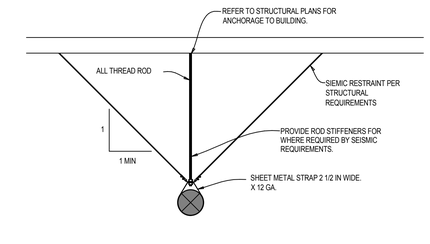
SCALE	
NONE	4



UNISTRUT SECTION VIEW

TRAPEZE PIPE SUPPORT HANGER

SCALE	
NONE	1

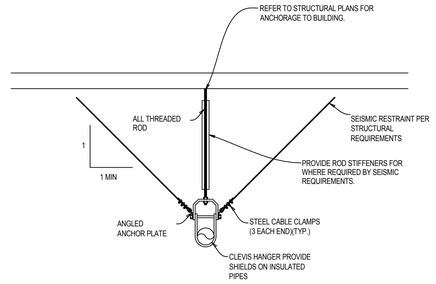


EXHAUST FAN MOUNTING DETAIL

SCALE	
NONE	8

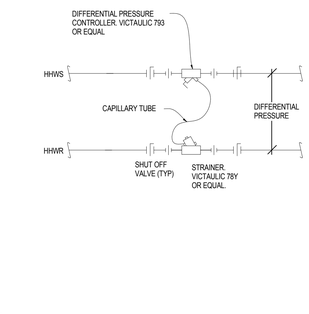
ROUND DUCT HANGING SUPPORT (STEEL ROD)

SCALE	
NONE	5



HORIZONTAL PIPE SUPPORT

SCALE	
NONE	2

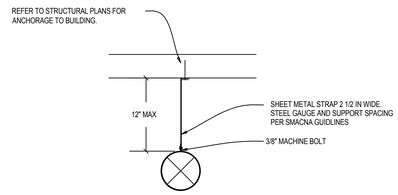


NOTES:

1. BASIS OF DESIGN FOR SYSTEM HEATING HOT WATER LOOP DESIGNED WITH VICTAULIC COMBINATION BALANCING AND CONTROL VALVES. SYSTEM DESIGNED WITH A COMBINATION OF PRESSURE INDEPENDENT BALANCING VALVES (P.I.B.V.) AND MANUAL/AUTOFLOW BALANCING VALVES (A.B.V) AT THE TERMINALS AS WELL AS PRESSURE INDEPENDENT BALANCING VALVES AT SELECT LOOP BRANCHES TO ACHIEVE MINIMUM VALVE AUTHORITIES NO LESS THAN 0.25 AT EACH TERMINAL. CONTRACTOR AT THEIR OPTION MAY SUBSTITUTE THE PROPOSED MANUFACTURER BUT SHALL SUBMIT ENGINEERED VALVE SYSTEM PLANS INDICATING THE MINIMUM AUTHORITY AT EACH TERMINAL.

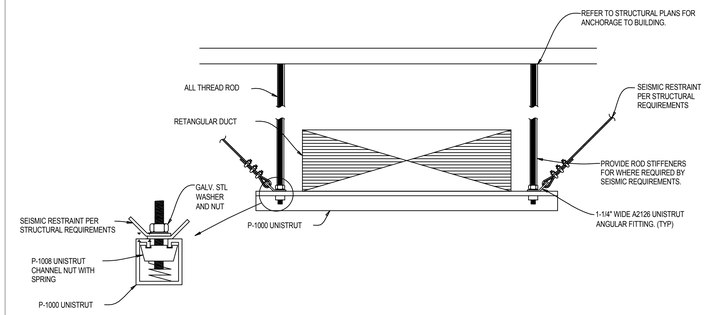
DIFFERENTIAL PRESSURE CONTROLLER

SCALE	
NONE	9



ROUND DUCT HANGING SUPPORT (STEEL STRAP)

SCALE	
NONE	6



UNISTRUT SECTION VIEW

NOTE

ATTACHMENT DETAIL IS FOR A TRAPEZE DUCT HANGER WHEN SEISMIC RESTRAINTS ARE REQUIRED AND WHERE DUCTS ARE WIDER THAN 48-INCHES IN WIDTH.

RECTANGULAR DUCT SUPPORT

SCALE	
NONE	3

GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL DETAILS

Sheet No.

2M-502

8/7/2017 2:40:32 PM
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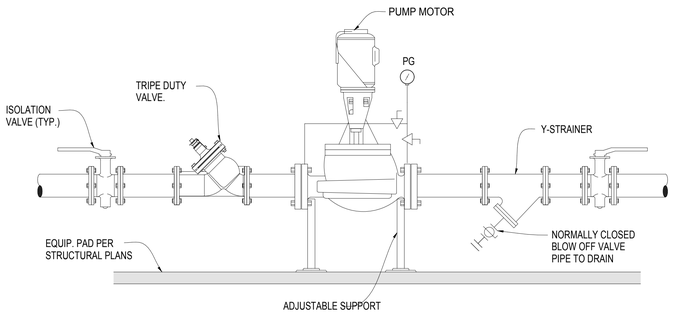
INLINE PUMP

SCALE: NONE | 7

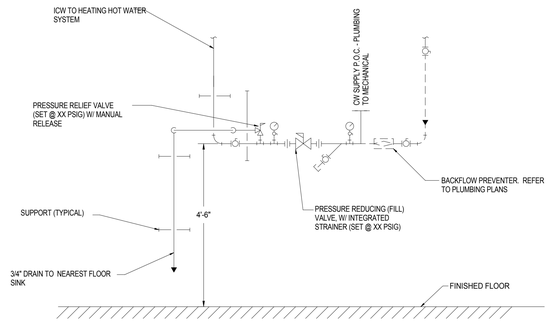


NOTES:

1. INSULATION NOT SHOWN FOR CLARITY. ALL COMPONENTS INCLUDING PUMP HOUSING SHALL BE INSULATED. VALVE STEM EXTENSIONS SHALL BE PROVIDED AS NOTED IN SPECIFICATIONS.

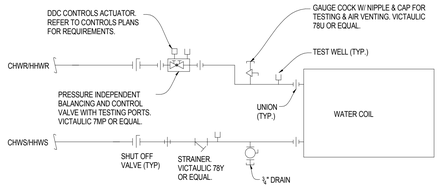
MAKE-UP WATER STATION

SCALE: NONE | 4



HHW COIL PIPING - PICV

SCALE: NONE | 1



NOTES:

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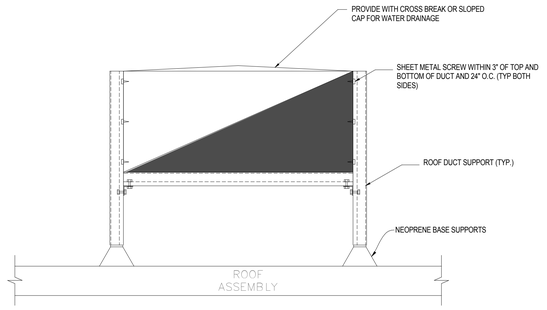
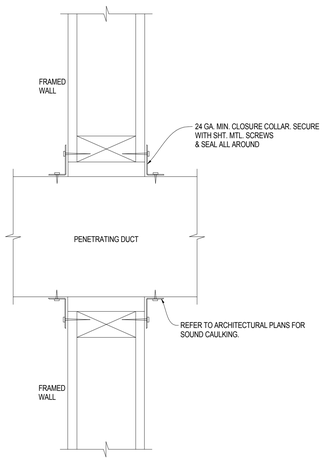
ROOF MOUNTED DUCTWORK - RECTANGULAR

SCALE: NONE | 8



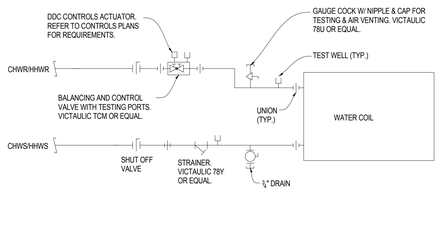
DUCT THRU NON-RATED WALL DETAIL

SCALE: NONE | 5



HHW COIL PIPING - ABV

SCALE: NONE | 2



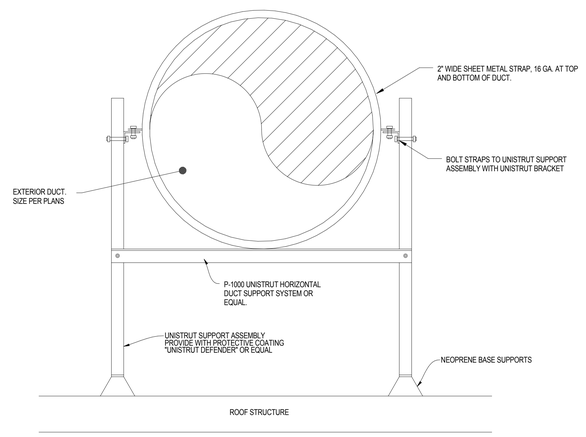
NOTES:

1. ADJUST BALANCING VALVE TO PROVIDE EQUAL PRESSURE DROP THROUGH PIPING SYSTEM.

2. BASIS OF DESIGN FOR SYSTEM HEATING HOT WATER LOOP DESIGNED WITH VICTAULIC COMBINATION BALANCING AND CONTROL VALVES. SYSTEM DESIGNED WITH A COMBINATION OF PRESSURE INDEPENDENT BALANCING VALVES (P.I.B.V.) AND MANUAL/AUTOFLOW BALANCING VALVES (A.B.V) AT THE TERMINALS AS WELL AS PRESSURE INDEPENDENT BALANCING VALVES AT SELECT LOOP BRANCHES TO ACHIEVE MINIMUM VALVE AUTHORITIES NO LESS THAN 0.25 AT EACH TERMINAL. CONTRACTOR AT THEIR OPTION MAY SUBSTITUTE THE PROPOSED MANUFACTURER BUT SHALL SUBMIT ENGINEERED VALVE SYSTEM PLANS INDICATING THE MINIMUM AUTHORITY AT EACH TERMINAL.

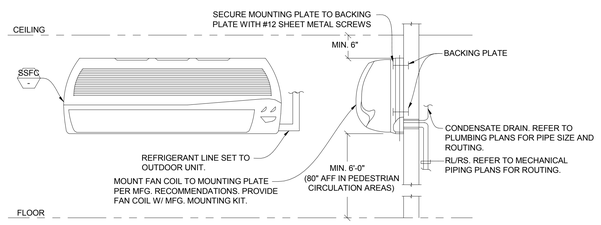
ROOF MOUNTED DUCTWORK - ROUND

SCALE: NONE | 9



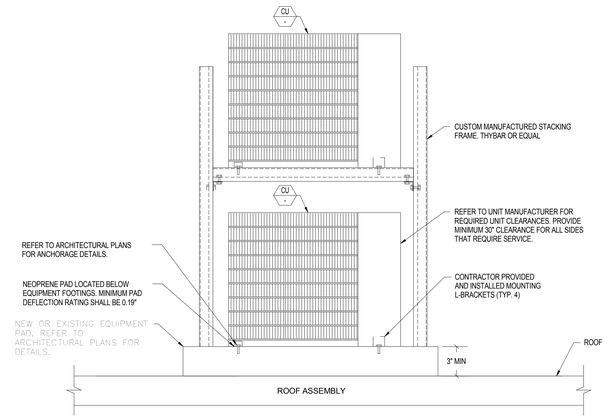
WALL MOUNTED FAN COIL DETAIL

SCALE: NONE | 6



CONDENSING UNIT MOUNTING

SCALE: NONE | 3



GENE THEORY
CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL DETAILS

Sheet No.

2M-503

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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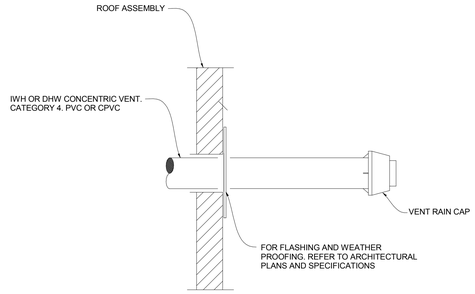
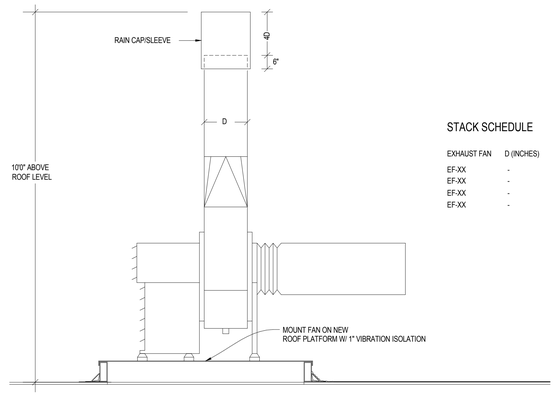


CAT IV FLUE THRU WALL (DWH & IWH)

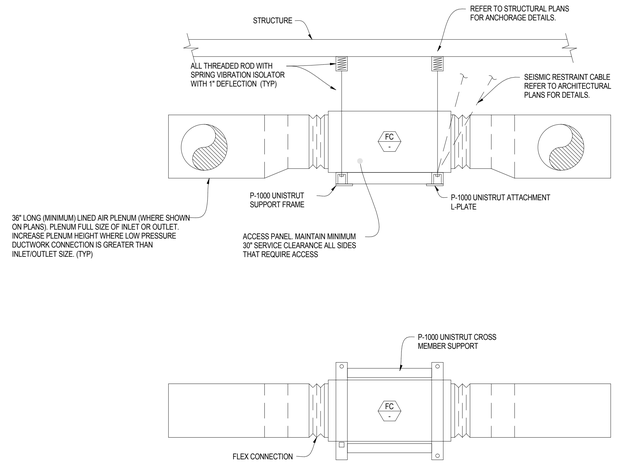
SCALE: NONE — 5



STACK SCHEDULE

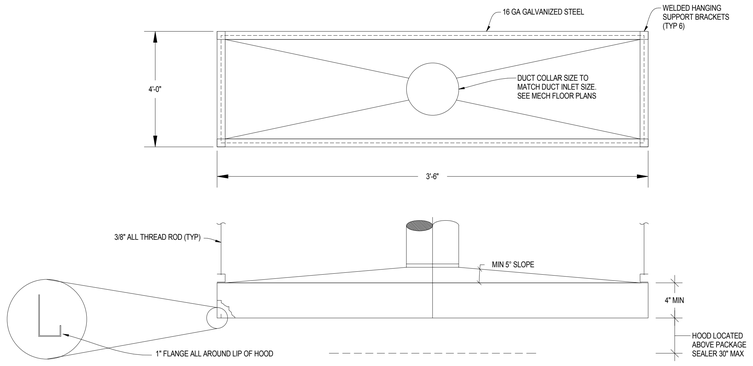
EXHAUST FAN	D (INCHES)
EF-XX	-
EF-XX	-
EF-XX	-
EF-XX	-

SCALE: NONE — 4



FANCOIL UNIT MOUNTING DETAIL

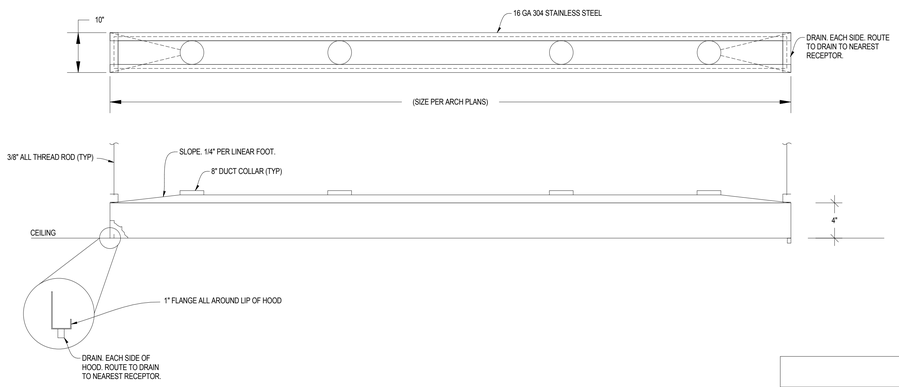
SCALE: NONE — 1



PACKAGE SEALER EXHAUST HOOD

NON CORROSIVE/GENERAL CAPTURE EXHAUST HOOD

SCALE: NONE — 5

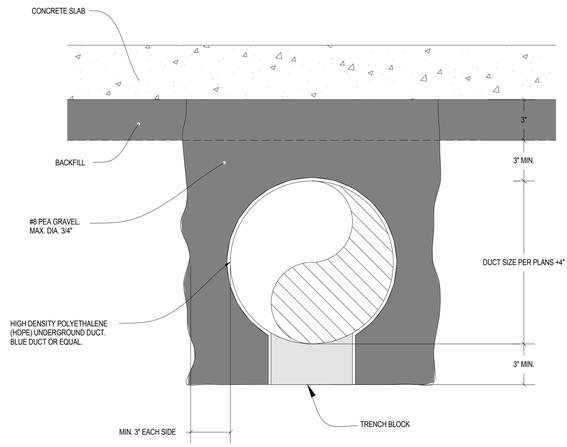


NOTES

1. CAPTURE HOOD SHALL BE FIELD FABRCATED PER REQUIREMENTS AS NOTED ON DETAIL. CONSTRUCTION SHALL BE 16 GA 304 STAINLESS STEEL WITH WELDED JOINTS.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT SIZING REQUIREMENTS AND PLACEMENT.

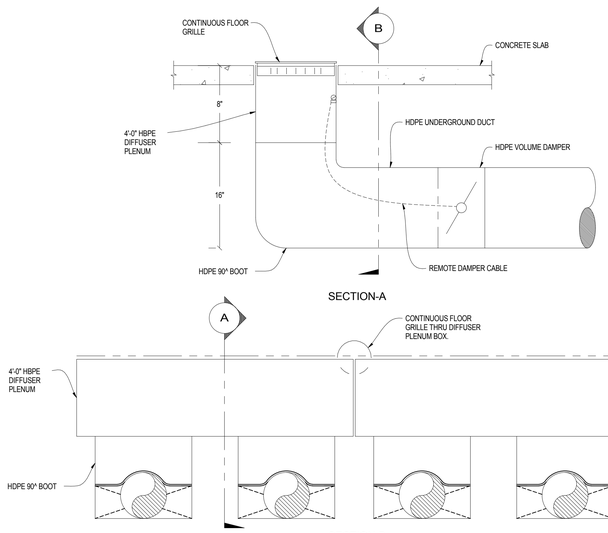
AUTOCLAVE EXHAUST HOOD

SCALE: NONE — 6



UNDERGROUND DUCT DETAIL

SCALE: NONE — 2



UNDERGROUND DUCT GRILLE DETAIL

SCALE: NONE — 3

GENE THEORY

CP 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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CITY SUBMITTAL SET
08.08.17

Sheet Title

MECHANICAL DETAILS

Sheet No.

2M-504

8/7/2017 2:40:32 PM
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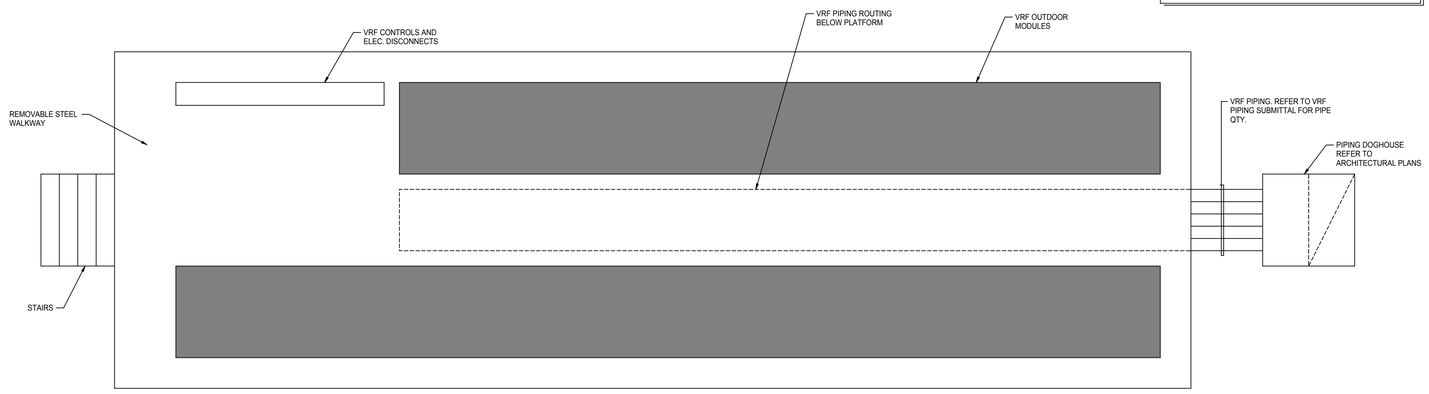
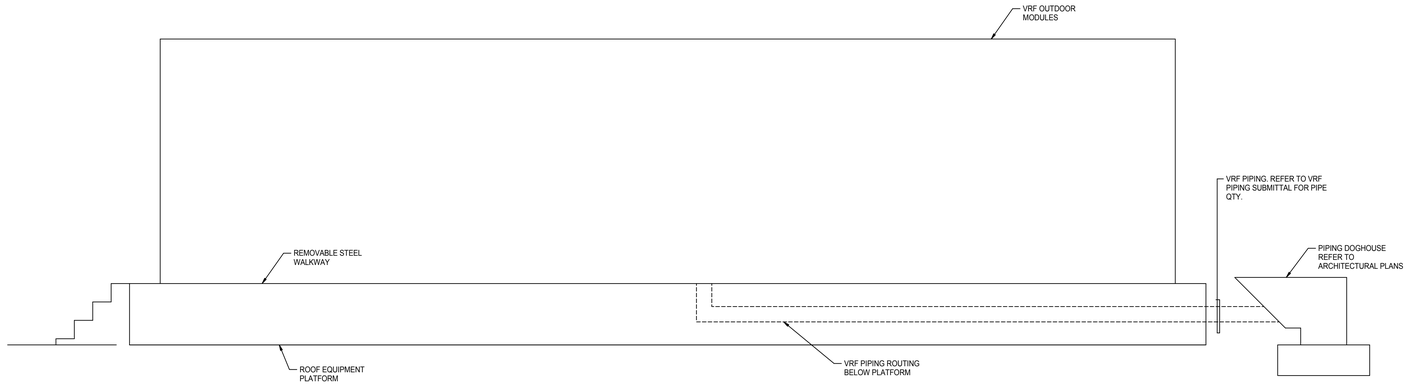
NOTES

1. CUSTOM FABRICATED VRV EQUIPMENT PLATFORM. PLATFORM TO BE CONSTRUCTED OF STEEL AND BE RATED/COATED FOR COASTAL OUTDOOR ENVIRONMENTS. PLATFORM TO CONSIST OF A REMOVABLE STEEL GRATING WITH PIPING AND CONDUITS ROUTED BELOW. BASIS OF DESIGN MANUFACTURER SHALL BE THYBAR.



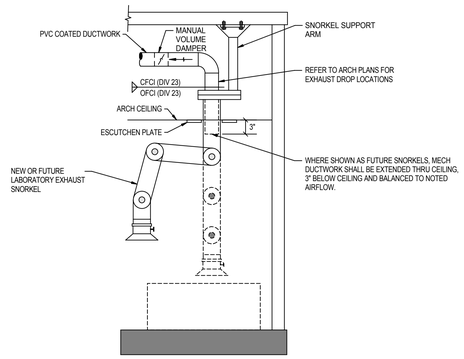
PLAN VIEW



ELEVATION VIEW

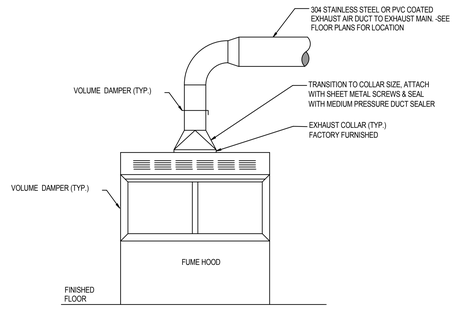
VRF MOUNTING PLATFORM

SCALE	
NONE	5



SNORKEL MOUNTING DETAIL

SCALE	
NONE	1

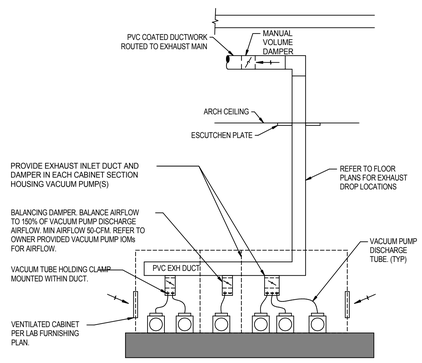


NOTES

1. 8' HOOD CONNECTION SHOWN. SIMILAR FOR SMALLER HOODS - SEE LABORATORY PLANS FOR SIZE OF HOOD CONNECTIONS.
2. EXHAUST DUCTWORK FROM FUME HOODS & ALL ACCESSORIES (DAMPERS ETC.) SHALL BE PVC COATED GALVANIZED STEEL

GENERAL FUME HOOD DETAIL

SCALE	
NONE	2



VACUUM PUMP CABINET EXHAUST DUCT

SCALE	
NONE	3

-

SCALE	
NONE	9

-

SCALE	
NONE	6

GENE THEORY
CP 2

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2M-505

10/3/2017 7:19:48 AM
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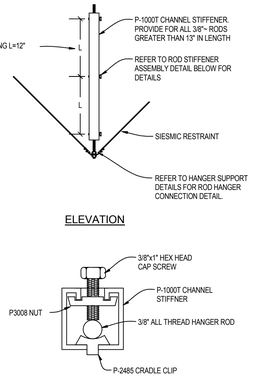
-

SCALE NONE 7

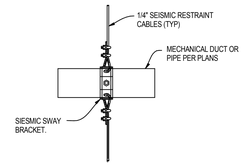


ELEVATION

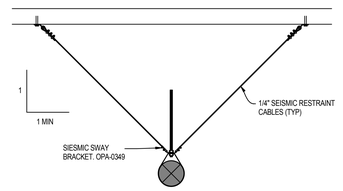
CHANNEL STIFFNER SECTION VIEW

CHANNEL STIFFENER

SCALE NONE 4



PLAN VIEW



ELEVATION

TYPICAL SEISMIC CABLE RESTRAINT (SINGLE DUCT/PIPE)

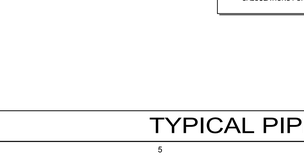
SCALE NONE 1

-

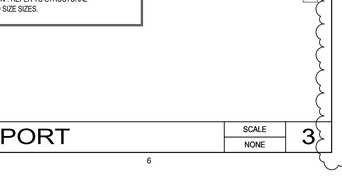
SCALE NONE 8

-

SCALE NONE 5



PLAN VIEW



ELEVATION

TYPICAL UNISTRUT SEISMIC RESTRAINT (SINGLE DUCT/PIPE)

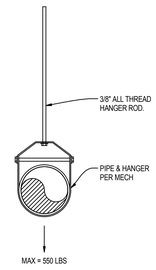
SCALE NONE 2

-

SCALE NONE 9

-

SCALE NONE 6



NOTE

1. HANGER DETAIL COMPLIES WITH CALIFORNIA PLUMBING CODE CPC 301.3 "ALTERNATIVE METHODS OF CONSTRUCTION". REFER TO STRUCTURAL CALCULATIONS FOR THE CALCULATED ROD SIZE SIZES.

TYPICAL PIPE SUPPORT

SCALE NONE 3

GENE THEORY
CP 2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

2.2

Sheet Title
MECHANICAL DETAILS

Sheet No.
2M-506

ELECTRICAL ABBREVIATIONS

A	AMPERES
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFL	COMPACT FLUORESCENT LAMP
CKT.	CIRCUIT
C.O.	CONDUIT ONLY
CONC.	CONCRETE
CU	COPPER
DIST.	DISTRIBUTION
DWG.	DRAWING
EM	EMERGENCY SERVICE
ETC	EXEDRA
EG	EQUIPMENT GROUND
EXIST.	EXISTING
FA	FIRE ALARM
FLA	FULL LOAD AMPS
GFI	GROUND FAULT INTERRUPTER
HORIZ.	HORIZONTALLY MOUNTED
HP	HORSEPOWER
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
JB	JUNCTION BOX
L	LOCKABLE
LTG.	LIGHTING
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MOP	MAXIMUM OVERCURRENT PROTECTION
MTD.	MOUNTED
MTG. HT.	MOUNTING HEIGHT
NIC	NOT IN CONTRACT
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
P	POLE
PB	PULL BOX
PH	PHASE
PNL	PANEL
POC	POINT OF CONNECTION
RCP	REFLECTED CEILING PLAN
RECEPT	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
SEC	SECURITY
S.N.	SOLID NEUTRAL
SWGR.	SWITCHGEAR
TC	TERMINAL CABINET
TEL.	TELEPHONE
T.I.	TENANT IMPROVEMENT
TR	TAMPER RESISTANT
TYP	TYPICAL
U.C.	UNDER COUNTER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
WH	WATER HEATER
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER
X	EXISTING TO REMAIN
XD	EXISTING TO BE DEMOLISHED
XR	EXISTING TO BE RELOCATED
XL	NEW LOCATION OF EXISTING ITEM

LIGHTING LEGEND

(COORDINATE THE EXACT MOUNTING AND LOCATION OF ALL LIGHTING, SUPPORTS AND ALL CONDUITS WITH OTHER TRADES PRIOR TO ROUGH-IN. SEE ARCH PLANS FOR EXACT GRID, FLUSH AND SURFACE MOUNTING LOCATIONS.)

LIGHTING FIXTURES. SEE FIXTURE SCHEDULE FOR MODEL/PART NUMBERS AND ADDITIONAL DETAILS.

2.2

EMERGENCY LIGHTING FIXTURES. EMERGENCY LIGHTING TO AUTOMATICALLY ILLUMINATE THE MEANS OF EGRESS FOR A DURATION OF NOT LESS THAN 90 MINUTES. SEE FIXTURE SCHEDULE FOR MODEL/PART NUMBERS AND ADDITIONAL DETAILS.

LUMINAIRE(S) POLE MOUNTED WITH ARM. TYPE AS NOTED.

LUMINAIRE(S) POLE MOUNTED ON TOP. TYPE AS NOTED.

SUBSCRIPT ADJACENT TO LIGHTING FIXTURE INDICATES:

1,2,3 etc. = BRANCH CIRCUIT NUMBERS
a,b,c etc. = SWITCH-LEG REFERENCE
NL = NIGHT/SECURITY LIGHTING FIXTURE

EMERGENCY BUGEYE FIXTURE.

LIGHTED EXIT SIGN. TOP MOUNTED ON CEILING OR STEM MOUNTED. SHADED SIDE INDICATES FACE. PROVIDE ARROWS WHERE SHOWN TO INDICATE DIRECTION OF TRAVEL.

DOUBLE SIDED EXIT SIGN. PROVIDE ARROWS WHERE SHOWN TO INDICATE DIRECTION OF TRAVEL.

$ TOGGLE SWITCH. SEE BELOW FOR NOTATION.
2 - DOUBLE POLE
3 - THREE WAY
4 - FOUR WAY
D - DIMMER
K - KEY SWITCH
M - MOTION SENSOR
a,b,c - INDICATES MULTIPLE SWITCHES IN GANGED BOX WITH COMMON COVERPLATE.

LV — LOW VOLTAGE OVERRIDE SWITCH

M — MOTION SENSOR - CEILING MOUNTED.

PC — PHOTOCELL - CEILING MOUNTED.

DS — DAYLIGHT SENSOR - CEILING MOUNTED.

D/M — COMBINATION DAYLIGHT/MOTION SENSOR - CEILING MOUNTED.

SITE SYMBOLS LEGEND

OHP —— OHP —— NEW CONDUIT AND/OR CONDUCTOR LINE. SEE BELOW FOR TYPICAL DESIGNATIONS

X— OHP —X— OHP —X— EXISTING TO BE DEMOLISHED CONDUIT AND/OR CONDUCTOR. SEE BELOW FOR TYPICAL DESIGNATIONS

— — OHP — — OHP — — EXISTING CONDUIT AND/OR CONDUCTOR LINE TO REMAIN. SEE BELOW FOR TYPICAL DESIGNATIONS

TYPICAL DESIGNATIONS TO BE USED IN CONJUNCTION WITH CONDUIT SYMBOLS

- UP - UNDERGROUND PRIMARY
- US - UNDERGROUND SECONDARY
- UC - UNDERGROUND COMMUNICATIONS
- USL - UNDERGROUND STREET LIGHTING
- OHP - OVERHEAD PRIMARY
- OHS - OVERHEAD SECONDARY
- OHC - OVERHEAD COMMUNICATIONS

NEW MANHOLE	EXISTING MANHOLE
NEW HANDHOLE	EXISTING HANDHOLE
T — NEW TRANSFORMER	T — EXISTING TRANSFORMER
SW — NEW MV SWITCH	SW — EXISTING MV SWITCH
NEW OH POLE	EXISTING OH POLE
NEW GUY	EXISTING GUY
NEW OH XFMR	EXISTING OH XFMR

GENERAL SYMBOLS LEGEND

1 — SHEET NOTE REFERENCE

3 / E1 — DETAIL NUMBER DESIGNATION; SHEET ON WHICH DETAIL IS FOUND

CONDUIT STUBOUT

CONDUIT RISING UP

CONDUIT CONCEALED IN WALLS OR CEILING.

CONDUIT DROP DOWN

CONDUIT CONCEALED IN FLOOR, UNDERFLOOR, OR BELOW GRADE

CONDUIT RUN EXPOSED

FLEXIBLE CONDUIT

#8 — CROSSMARKS DENOTE QUANTITY OF NEUTRAL (LONG), PHASE (SHORT), AND GROUND (DOT) CONDUCTORS IN BRANCH CIRCUIT CONDUIT. NO CROSSMARKS DENOTES PHASE, NEUTRAL, AND GROUND WIRES. NUMBER ADJACENT TO CROSSMARKS DENOTES WIRE SIZE OTHER THAN #12 FOR ALL CONDUCTORS UNO.

A-1 — HOMERUN TO PANEL AND CIRCUITS INDICATED.

COMMUNICATION LEGEND

COMBINATION VOICE/DATA OUTLET MOUNTED AT 18" UNO.

WALL MOUNTED VOICE OUTLET AT +18" UNO.

WALL MOUNTED DATA OUTLET AT +18" UNO.

CEILING MOUNTED DATA OR VOICE/DATA OUTLET.

FLOOR DATA OR VOICE/DATA OUTLET.

M — WALL OR FLOOR VOICE/DATA CONNECTION TO MODULAR FURNITURE. VERIFY EXACT LOCATION WITH FURNITURE SUPPLIER.

TV — WALL MOUNTED TELEVISION OUTLET.

AV — WALL MOUNTED AUDIO/VISUAL OUTLET.

S — SPEAKER - CEILING MOUNTED.

12" WIDE MONO-TRAY, 4" DEEP (NOMINAL), 6" RUNG SPACING. TYPICAL UNO

12" WIDE CABLE TRAY, 4" DEEP (NOMINAL) TYPICAL UNO.

COORDINATE THE EXACT MOUNTING OF ALL CABLE TRAY SUPPORTS AND ALL CONDUITS WITH OTHER TRADES PRIOR TO ROUGH-IN.

SECURITY SYSTEM LEGEND

(VERIFY EXACT LOCATION AND MOUNTING OF ALL SYSTEM DEVICES WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.)

CR	CARD READER ROUGH-IN WITH TOP OF BOX AT +48" AFF AND 12" FROM DOOR EDGE, UNO PROVIDE 1" C.O. INTO ACCESSIBLE CEILING SPACE UNO NOTE: THE ROUGH-IN BOX SHALL HAVE A BLANK METAL PLATE UNDER THE DRYWALL. DRILL HOLES FOR CABLE AND MOUNTING THE DEVICE PER MANUFACTURER.
DR	DOOR LOCK/STRIKE ROUGH-IN. PROVIDE 3/4" C., INTO ACCESSIBLE CEILING SPACE UNO
CM	SECURITY CAMERA ROUGH-IN. PROVIDE 3/4" C., INTO ACCESSIBLE CEILING SPACE UNO
DC	DOOR CONTACT ROUGH-IN. PROVIDE 3/4" C. INTO ACCESSIBLE CEILING SPACE UNO
SR	STRIKE RELEASE ROUGH-IN. PROVIDE 3/4" C. INTO ACCESSIBLE CEILING SPACE UNO
IR	INFRARED DETECTOR (REQUEST TO EXIT) PROVIDE 3/4" C.O. INTO ACCESSIBLE CEILING SPACE UNO
I	ROUGH-IN FOR INTERCOM STATION (VERIFY).
ID	INTRUSION DETECTOR (GLASS BREAK).
M	CCTV MONITOR
DVR	CCTV DIGITAL VIDEO RECORDER
	BALANCED MAGNETIC SWITCH (BMS)
F	CCTV FIXED CAMERA

SUBSCRIPT ADJACENT TO CCTV INDICATES:

F = FIXED
PTZ = PAN TILT ZOOM
WP = WEATHERPROOF

POWER LEGEND

DUPLEX RECEPTACLE, NON-LOCKING TYPE, GROUNDING, 120V - 20A. MOUNTED AT +18 AFF UNO. SHADED REPRESENTS ABOVE COUNTER OR +42" AFF.

QUAD RECEPTACLE, NON-LOCKING TYPE, GROUNDING, 120V - 20A. MOUNTED AT +18 AFF UNO. SHADED REPRESENTS ABOVE COUNTER OR +42" AFF.

DUPLEX RECEPTACLE WITH GFCI, NON-LOCKING TYPE, GROUNDING, 120V - 20A. MOUNTED AT +18 AFF UNO. SHADED REPRESENTS ABOVE COUNTER OR +42" AFF.

SPECIAL RECEPTACLE, TYPE AS NOTED. MOUNTED AT +18 AFF UNO.

SPECIAL RECEPTACLE, TYPE AS NOTED. CEILING MOUNTED.

TYPE DESIGNATORS
NONE = L6-20R: 1/2"C, 2#12, #12N, #12G
A = L6-30R: 1/2"C, 2#10, #10N, #10G
B = L6-50R: 3/4"C, 2#6, #6N, #10G
C = L15-30R: 3/4"C, 3#8, #10G
D = L15-60R: 1"C, 3#4, #8G

CEILING MOUNTED DUPLEX OR QUAD RECEPTACLE, NON-LOCKING TYPE, GROUNDING.

POWER FLOOR BOX.

CONTROLLED RECEPTACLE NON-LOCKING TYPE 120V-20A. TO BE LOCATED WITHIN 6' OF AN UNCONTROLLED RECEPTACLE. CONNECT SWITCH LEG BETWEEN RELAY POWER PACK AND OCCUPANCY CONTROLS FOR AUTOMATIC SHUT OFF. CONTROLLED RECEPTACLES SHALL HAVE PERMANENT MARKING TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES. QUAD RECEPTACLES TO HAVE ONE CONTROLLED DUPLEX AND ONE NON-CONTROLLED DUPLEX. (CEC TITLE 24 SECTION 130.5(D)). PROVIDE FACEPLATE PER NEC 406.3(E).

M — WALL OR FLOOR POWER CONNECTION TO MODULAR FURNITURE. VERIFY EXACT LOCATION WITH FURNITURE SUPPLIER.

J — JUNCTION BOX

T — TRANSFORMER

SWITCHBOARD OR MCC

PANEL BOARD (SURFACE)

PANEL BOARD (FLUSH)

LOW VOLTAGE PANEL

LCP — LIGHTING CONTROL PANEL

TELEPHONE BACKBOARD. 3/4" PLYWOOD, LENGTH AND WIDTH AS NOTED.

SINGLE LINE LEGEND

GROUND

CIRCUIT BREAKER

CURRENT TRANSFORMERS

TRANSFORMER DELTA PRIMARY, WYE SECONDARY WITH kVA RATING

SPD — SURGE PROTECTION DEVICE

GFP — GROUND FAULT PROTECTION

CB — ENCLOSED CIRCUIT BREAKER

TC — TIME CLOCK

M — KILOWATT-HOUR METER

FUSED SWITCH

NON-FUSIBLE DISCONNECT SWITCH (RATINGS AS NOTED)

FUSIBLE DISCONNECT SWITCH (RATINGS AS NOTED)

2 — MOTOR STARTER (NEMA SIZE AS NOTED)

2 — COMBINATION FUSIBLE DISCONNECT SWITCH AND MOTOR STARTER, (NEMA SIZE AS NOTED), 3P, 600 VAC MAXIMUM RATING.

$T — TOGGLE TYPE FRACTIONAL HP MANUAL MOTOR STARTER WITH THERMAL OVERLOADS (DELETED IF FOR DISCONNECT USE ONLY) AND HANDLE GUARD/LOCK-OFF, 2 POLES (VERIFY WITH BRANCH CIRCUIT).

EPO - EMERGENCY POWER OFF BUTTON

MOTOR

AUTOMATIC TRANSFER SWITCH

PANEL BOARD

CIRCUIT BREAKER CALLOUT
225 -TRIP SIZE
3 -POLE

FUSE CALLOUT
150 -FUSE SIZE
3 -POLE

GENERAL NOTES

1. ALL ELECTRICAL SYSTEMS PER NEC.
2. ALL ELECTRICAL SYSTEMS PER CEC 2016.
3. ELECTRICAL CONTRACTOR TO VERIFY EXACT LOCATION OF RECEPTACLES IN TELECOM ROOMS PRIOR TO ROUGH-IN.
4. ALL EXTERIOR LIGHTING INSTALLATIONS AND LAMP TYPE SHALL COMPLY WITH REDWOOD CITY OUTDOOR LIGHTING REGULATIONS 142.0740. (2.2)
5. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER DOCUMENTATION. COORDINATE WITH ALL OTHER TRADES FOR EQUIPMENT LOCATIONS.
6. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL RECEPTACLES AND DEVICES.
7. COORDINATE WITH EQUIPMENT MANUFACTURER FOR LOCATIONS AND CONNECTIONS.
8. VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
9. EACH BRANCH CIRCUIT THAT SUPPLIES NON-LINEAR LOADS INCLUDING COMPUTERS, COMMUNICATION RACKS, ETC. MUST HAVE A DEDICATED NEUTRAL.
10. MULTI-WIRE BRANCH CIRCUITS FOR GENERAL LOADS CAN INCLUDE UP TO THREE PHASE CONDUCTORS WITH A SHARED NEUTRAL IN A RACEWAY IF A MULTI-POLE BREAKER IS PROVIDED TO SIMULTANEOUSLY DISCONNECT ALL SINGLE POLE CIRCUIT BREAKERS THAT SUPPLY INDIVIDUAL PHASE CONDUCTORS OF THE MULTI-WIRE CIRCUIT.

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title
LEGEND NOTES AND ABBREVIATIONS

Sheet No.
2E-001

10/2/2017 10:38:03 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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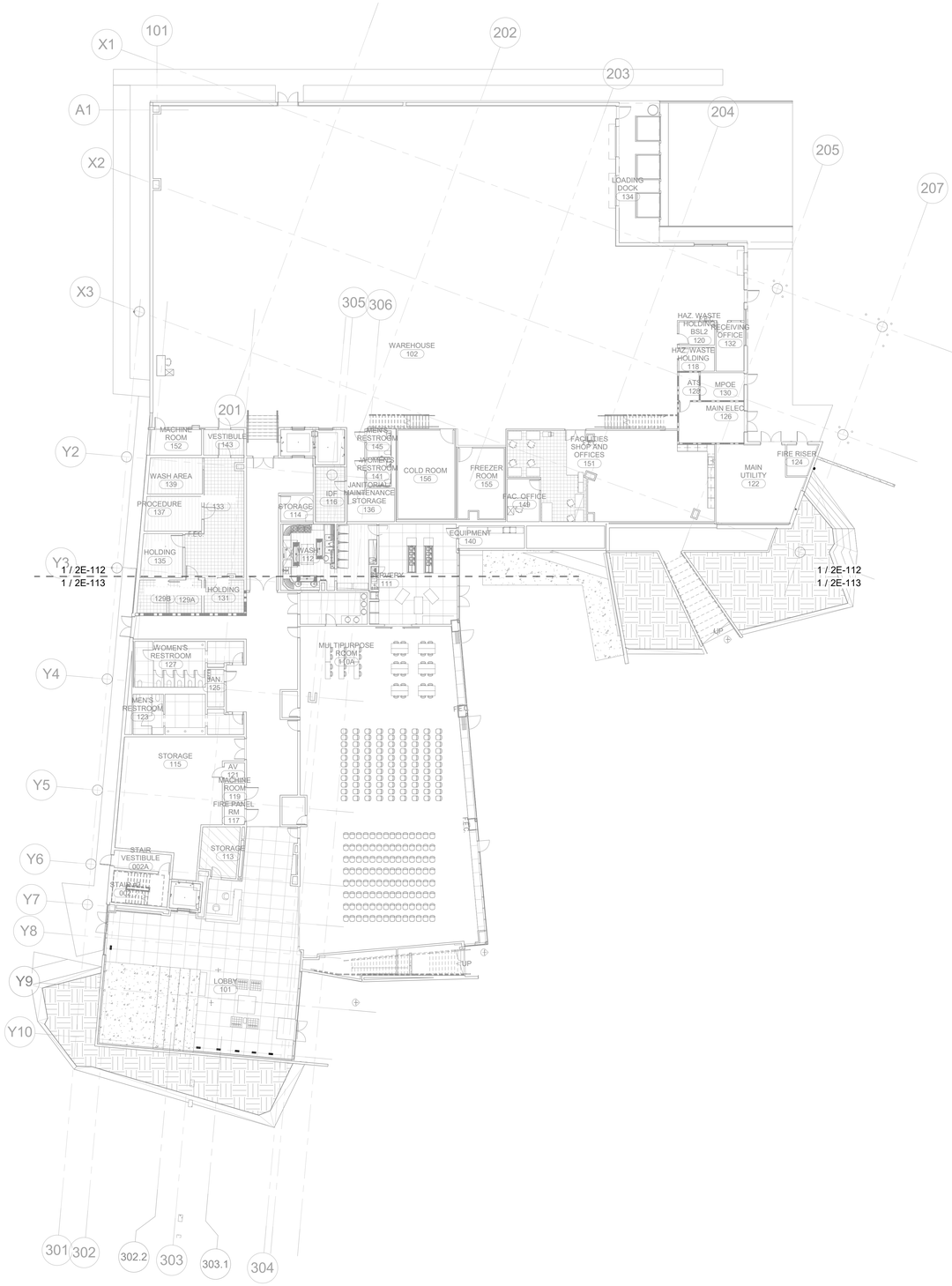

1 / LEVEL 01 - OVERALL

1/16" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. .

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL FIRST LEVEL FLOOR PLAN

Sheet No.

2E-111

1/19/2018 9:27:13 AM
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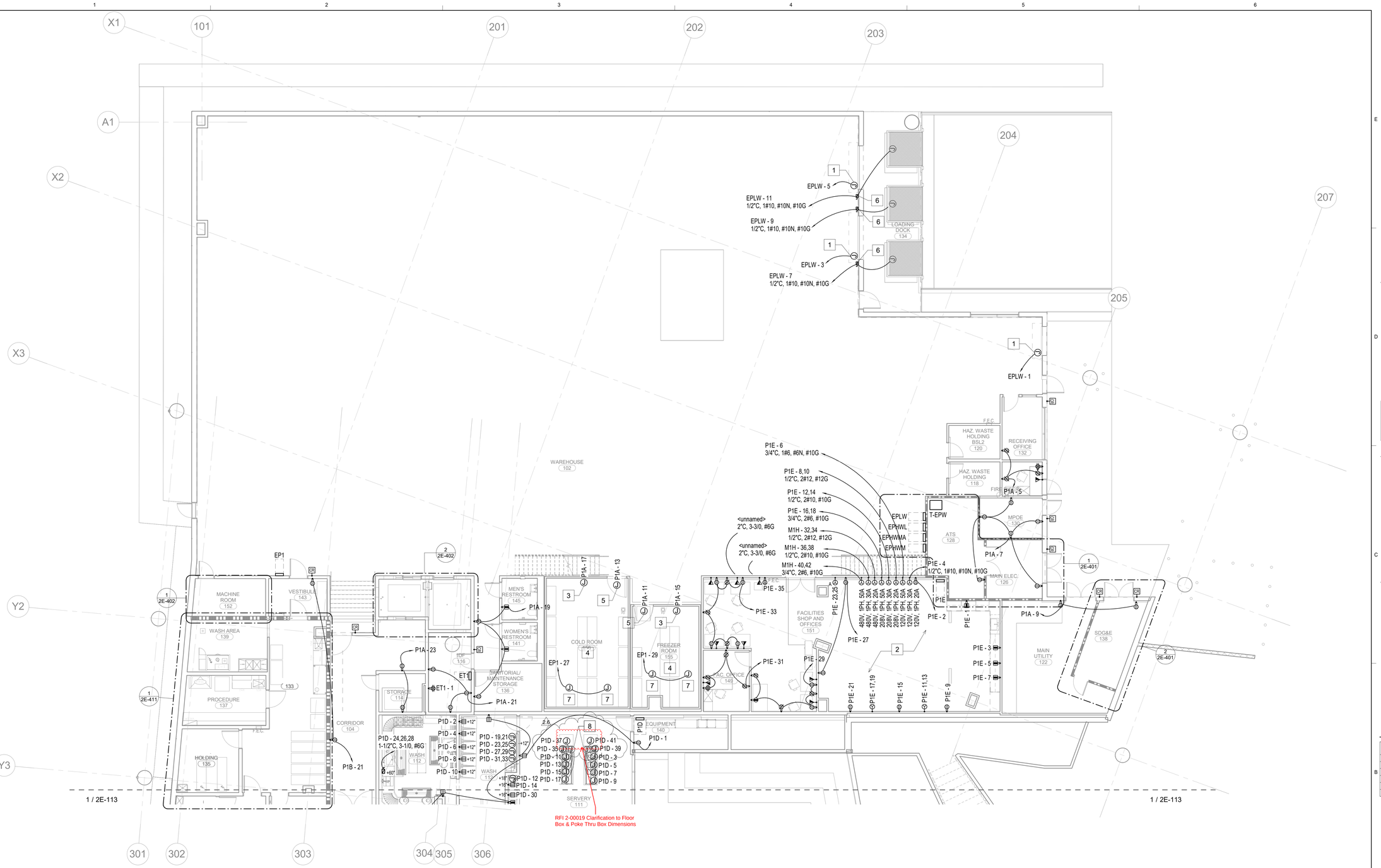


1 LEVEL 01 - PART A - POWER

1/8" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. CIRCUIT EXTERIOR LIGHTING VIA ASTRONOMICAL TIME CLOCK.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V, 1PH POWER FOR MOTORIZED DOOR CONNECTION. COORDINATE LOCATION AND REQUIREMENTS WITH MOTORIZED DOOR CONTRACTOR PRIOR TO ROUGH-IN.
2	ALL OUTLETS IN THE FACILITY SHOP SPACE TO BE AT 42" AFF.
3	PROVIDE 120V POWER FOR COLD ROOM. COORDINATE LOCATION AND REQUIREMENTS WITH COLD ROOM MANUFACTURER PRIOR TO ROUGH-IN.
4	RECEPTACLES TO BE PROVIDED BY COLD ROOM MANUFACTURER.
5	PROVIDE 120V POWER FOR DOOR FRAME AND WINDOW HEATERS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
6	PROVIDE 120V, 30A, 1PH POWER FOR LOADING DOCK LEVELER AND CONTROL PANEL. COORDINATE LOCATION AND REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
7	PROVIDE 120V, 1PH POWER FOR COLD ROOM EVAPORATOR. COORDINATE LOCATION AND REQUIREMENTS WITH COLD ROOM MANUFACTURER PRIOR TO ROUGH-IN.
8	PROVIDE WATERPROOF STUB UP THROUGH FLOOR FOR ENTREE COUNTER. COORDINATE LOCATION AND REQUIREMENTS WITH FOOD SERVICE CONTRACTOR OR CONSULTANT PRIOR TO ROUGH-IN.

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

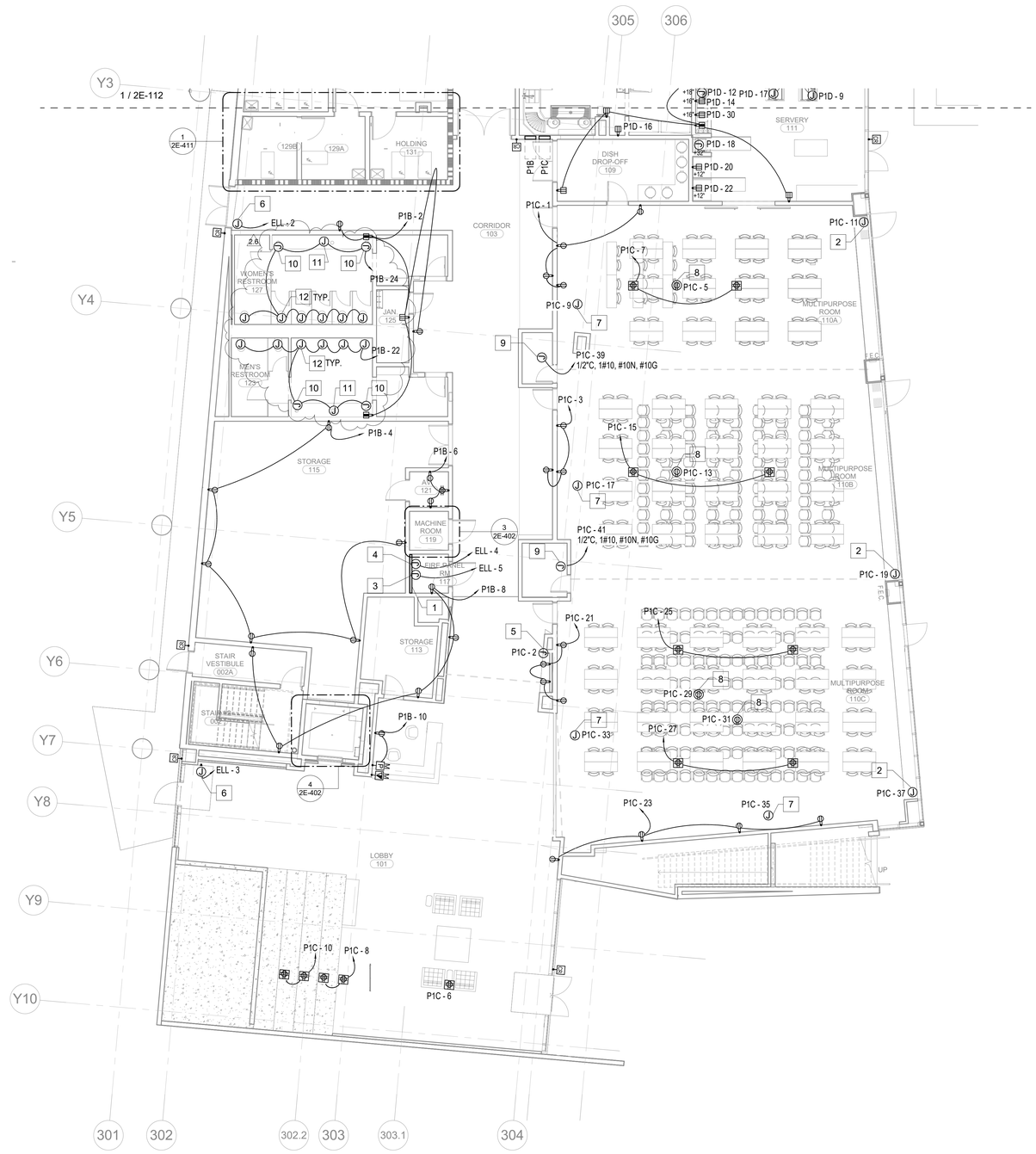
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
FIRST LEVEL - PART A - POWER

Sheet No.
2E-112

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002



RFI 2-00019 Clarification to Floor Box & Poke Thru Box Dimensions

RFI 2-00018 Clarification to Floor Box & Poke Thru Box Dimensions

1 **LEVEL 01 - PART B - POWER**

1/8" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. ~~ELECTRICAL CONTRACTOR TO PROVIDE~~ ELECTRICAL CONTRACTOR TO PROVIDE ~~STAINLESS STEEL~~ WHITE FINISH DECORATIVE OUTLET COVERS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 3/4" PAINTED PLYWOOD BACKBOARD.
2	PROVIDE POWER FOR MOTORIZED SHADES. COORDINATE LOCATION AND REQUIREMENTS WITH SHADE MANUFACTURER.
3	PROVIDE 120V POWER FOR FIRE EVACUATION CONTROL PANEL.
4	PROVIDE 120V POWER FOR FIRE ALARM CONTROL PANEL.
5	PROVIDE 120V POWER FOR DISPLAY CASE. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
6	PROVIDE 120V, 1PH POWER FOR AUTOMATIC DOOR.
7	PROVIDE 120V POWER FOR MOTORIZED PROJECTOR SCREEN. COORDINATE LOCATION AND REQUIREMENTS WITH AV DRAWINGS.
8	PROVIDE POWER FOR CEILING PROJECTOR. COORDINATE LOCATION WITH AV DRAWINGS.
9	PROVIDE 120V, 1PH POWER FOR FOLDING WALL PARTITION. COORDINATE LOCATION AND REQUIREMENTS WITH FOLDING WALL MANUFACTURER PRIOR TO ROUGH-IN.
10	PROVIDE 120V POWER FOR PAPER TOWEL DISPENSER. COORDINATE LOCATION AND REQUIREMENTS WITH INTERIORS CONSULTANT PRIOR TO ROUGH-IN.
11	PROVIDE 120V POWER FOR SOAP DISPENSERS AND SINK FAUCETS. COORDINATE LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
12	PROVIDE 120V POWER FOR FLUSH VALVES. COORDINATE LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

2.6

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title

FIRST LEVEL PART B - POWER

Sheet No.

2E-113

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

1/19/2018 9:27:16 AM
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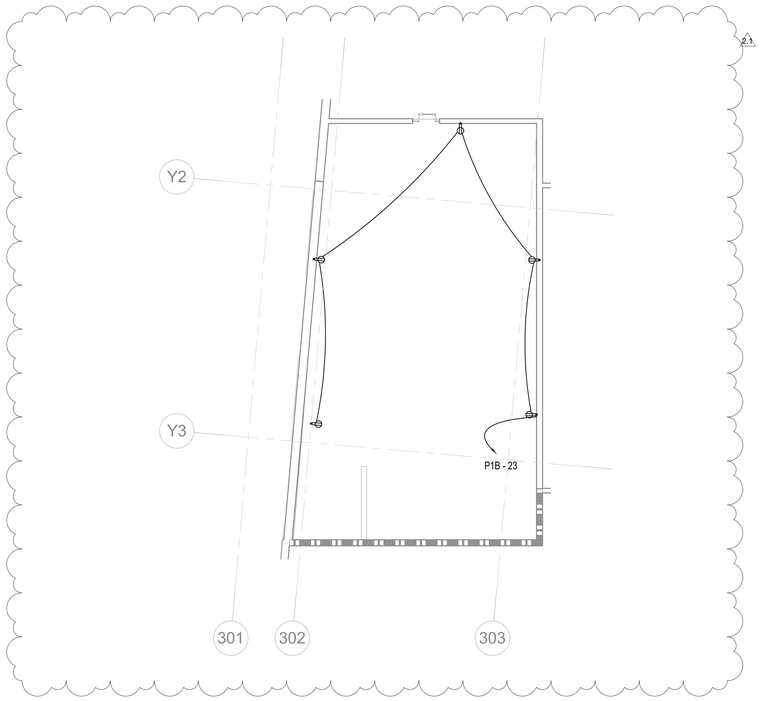
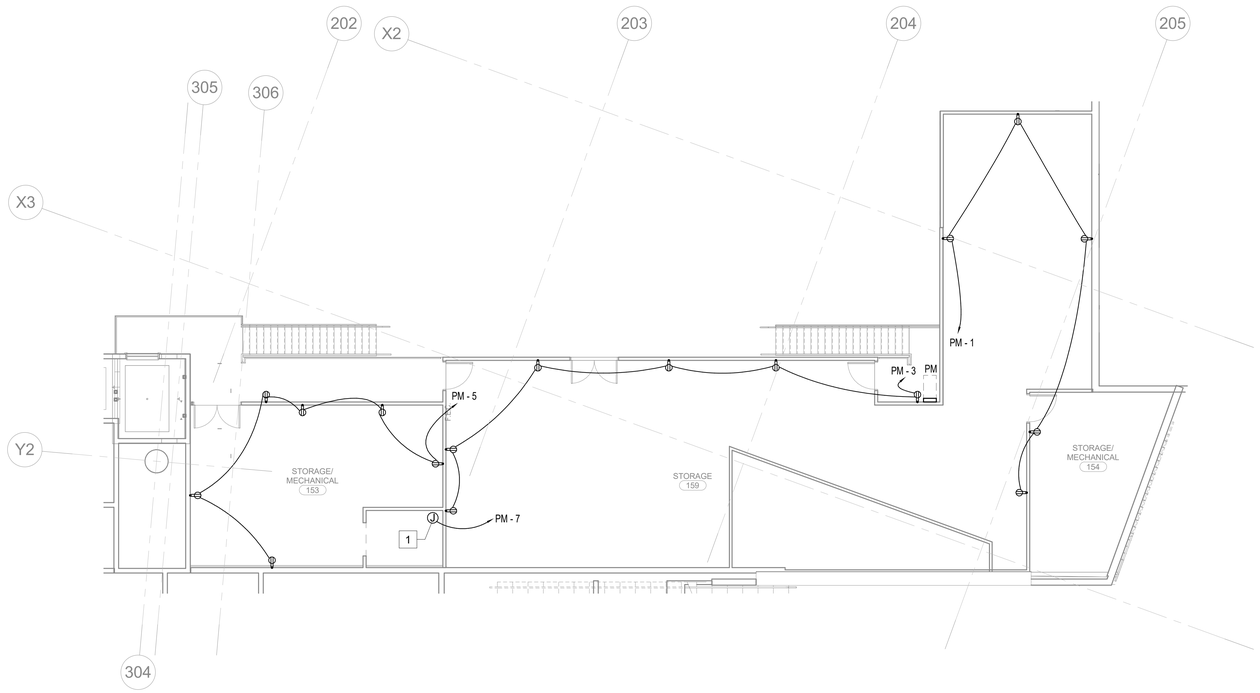


2 MECHANICAL ATTIC - POWER

/ 1/8" = 1'-0"



1 MEZZANINE - POWER

/ 1/8" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V POWER FOR IRRIGATION CONTROLLER. COORDINATE LOCATION AND REQUIREMENTS WITH IRRIGATION CONTRACTOR PRIOR TO ROUGH-IN.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUMDUM #2.1

ADDENDUM #2.1
08.29.17

Sheet Title

MEZZANINE LEVEL - POWER

Sheet No.

2E-114

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

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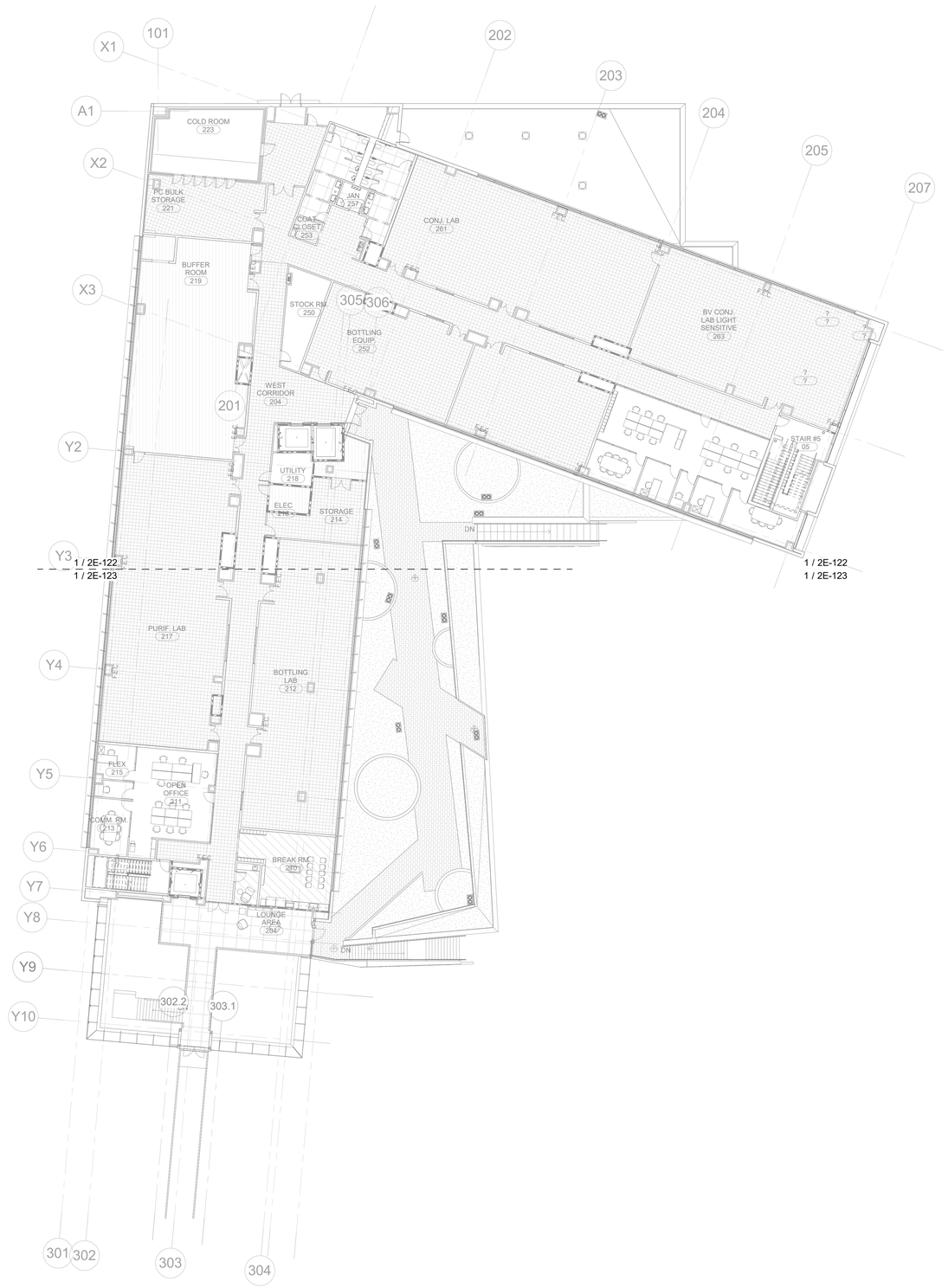

1 LEVEL 02 - OVERALL

1/16" = 1'-0"

NORTH

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL SECOND LEVEL FLOOR PLAN

Sheet No.

2E-121

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

1/19/2018 9:27:20 AM
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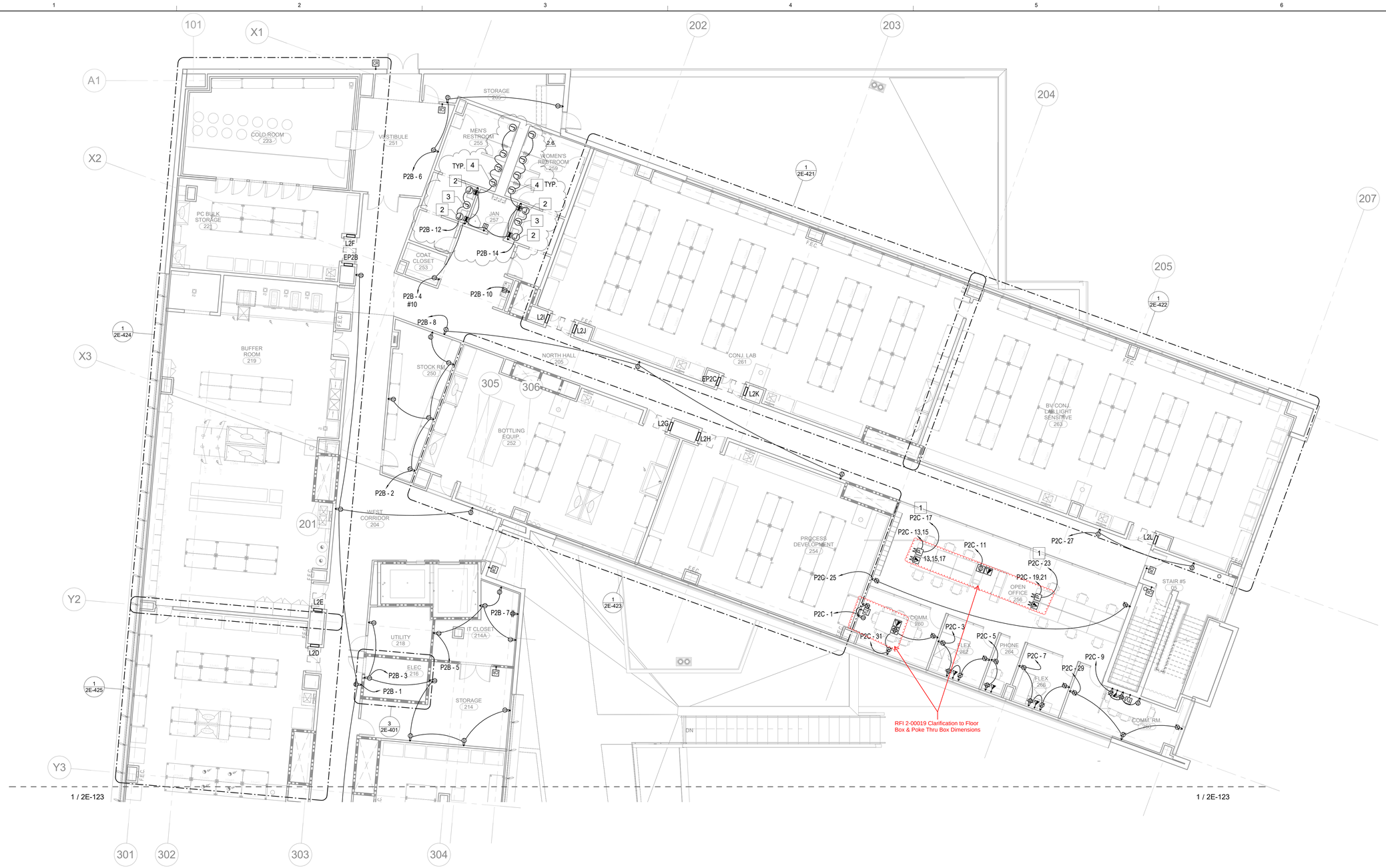


1 LEVEL 02 - PART A - POWER

1/8" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. CIRCUIT EXTERIOR LIGHTING VIA ASTRONOMICAL TIME CLOCK.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE CONTROLLED CIRCUIT FOR FURNITURE RECEPTACLES.
2	PROVIDE 120V POWER FOR PAPER TOWEL DISPENSER. COORDINATE LOCATION AND REQUIREMENTS WITH INTERIORS CONSULTANT PRIOR TO ROUGH-IN.
3	PROVIDE 120V POWER FOR SOAP DISPENSERS AND SINK FAUCETS. COORDINATE LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
4	PROVIDE 120V POWER FOR FLUSH VALVES. COORDINATE LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
SECOND LEVEL - PART A - POWER

Sheet No.
2E-122

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002



SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. CIRCUIT EXTERIO LIGHTING VIA ASTRONOMICAL TIME CLOCK.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V, 20A, 1PH POWER FOR ELEVATOR SMOKE CURTAIN. COORDINATE LOCATION AND REQUIREMENTS WITH SMOKE CURTAIN MANUFACTURER PRIOR TO ROUGH-IN.
2	PROVIDE 120V, 1PH POWER FOR AUTOMATIC DOOR.

1 **LEVEL 02 - PART B - POWER**

1/8" = 1'-0"

NORTH

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title

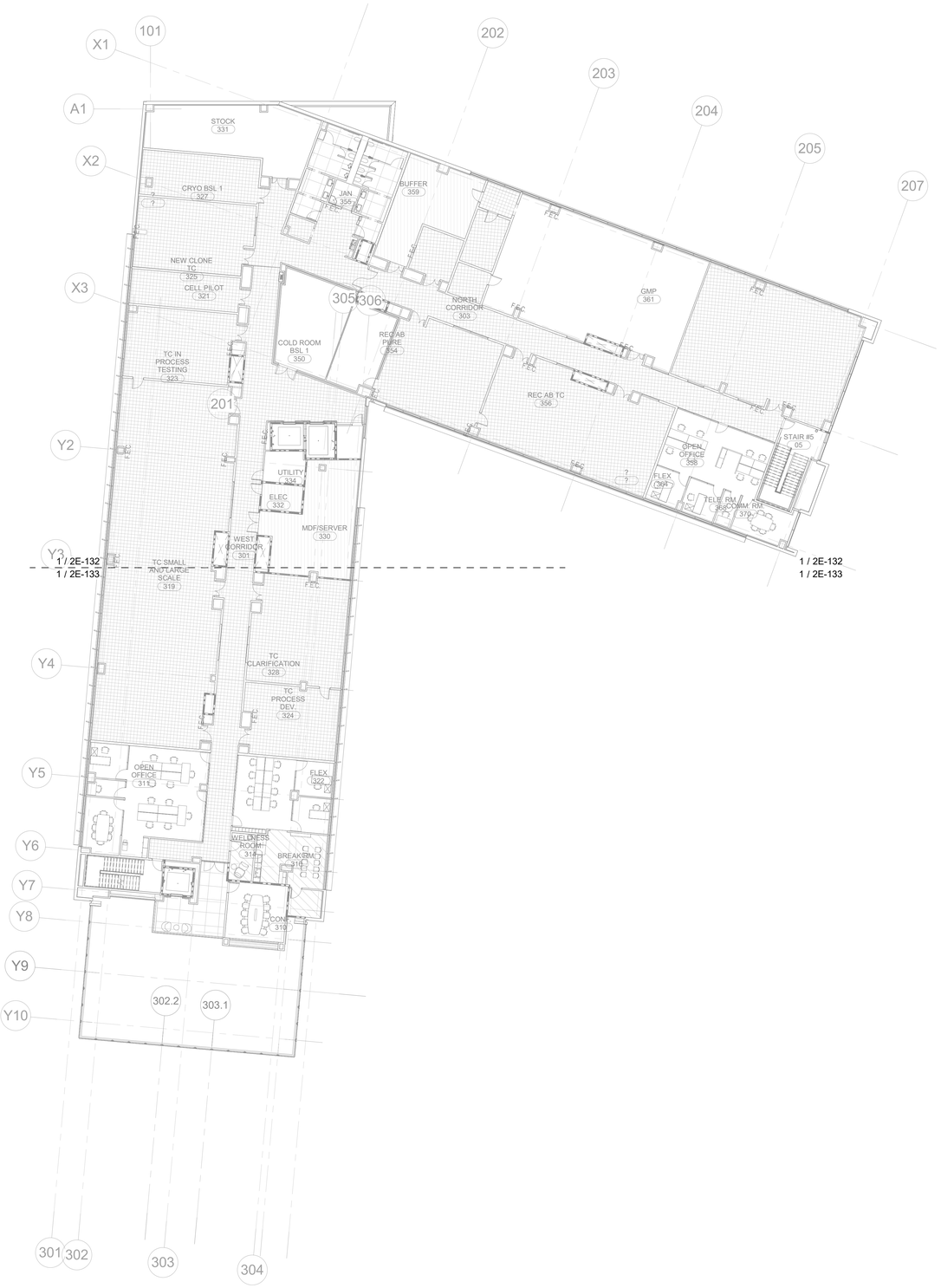
SECOND LEVEL - PART B - POWER

Sheet No.

2E-123

10/2/2017 10:38:26 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



1	LEVEL 03 - OVERALL
/	1/16" = 1'-0"

NORTH

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL THIRD LEVEL FLOOR PLAN

Sheet No.

2E-131

8/7/2017 3:56:14 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

1/19/2018 9:27:25 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
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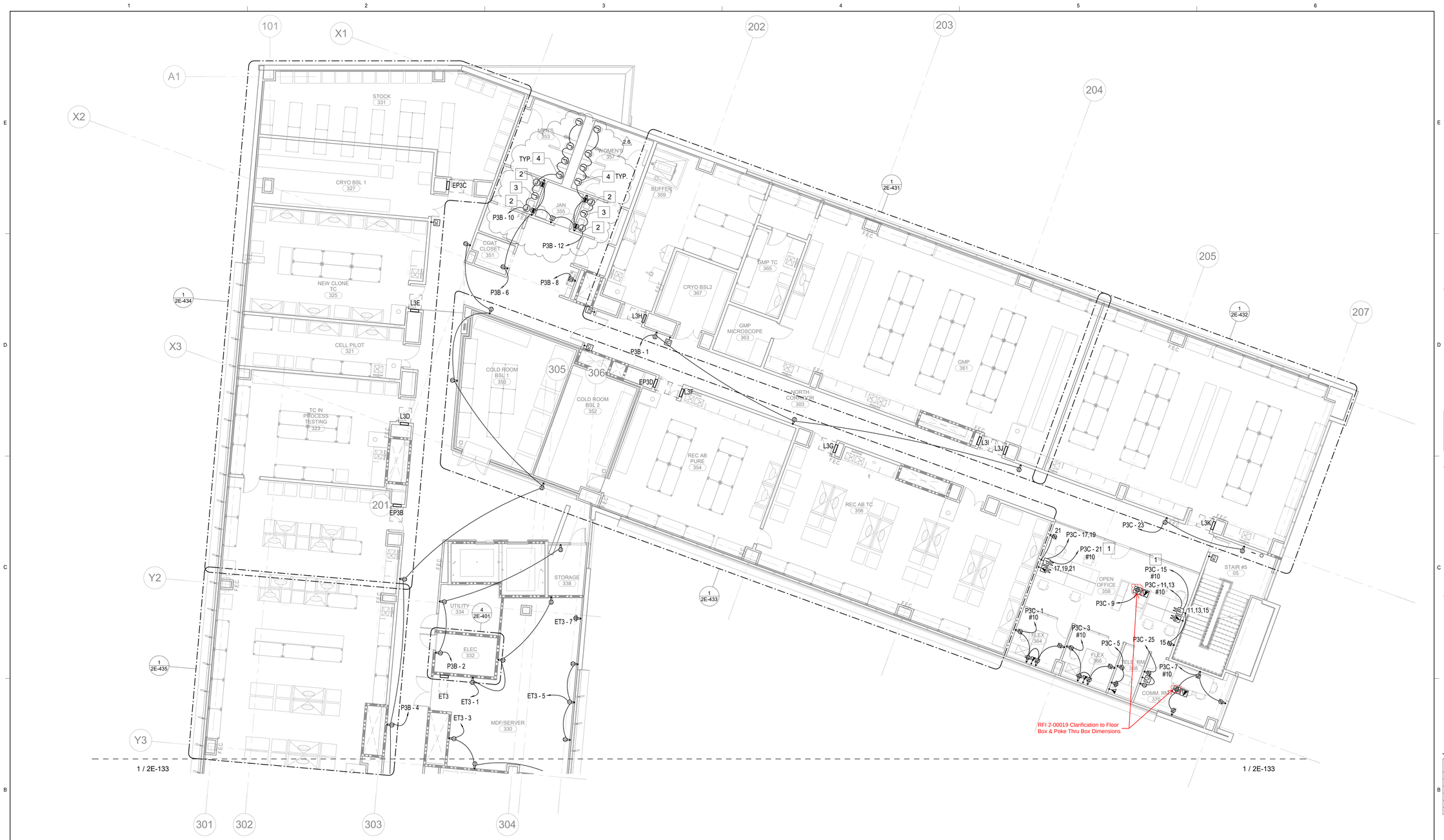


1 LEVEL 03 - PART A - POWER

1/8" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. CIRCUIT EXTERIOR LIGHTING VIA ASTRONOMICAL TIME CLOCK.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE CONTROLLED CIRCUIT FOR FURNITURE RECEPTACLES.
2	PROVIDE 120V POWER FOR PAPER TOWEL DISPENSER. COORDINATE LOCATION AND REQUIREMENTS WITH INTERIORS CONSULTANT PRIOR TO ROUGH-IN. 2.6
3	PROVIDE 120V POWER FOR SOAP DISPENSERS AND SINK FAUCETS. COORDINATE LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
4	PROVIDE 120V POWER FOR FLUSH VALVES. COORDINATE LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

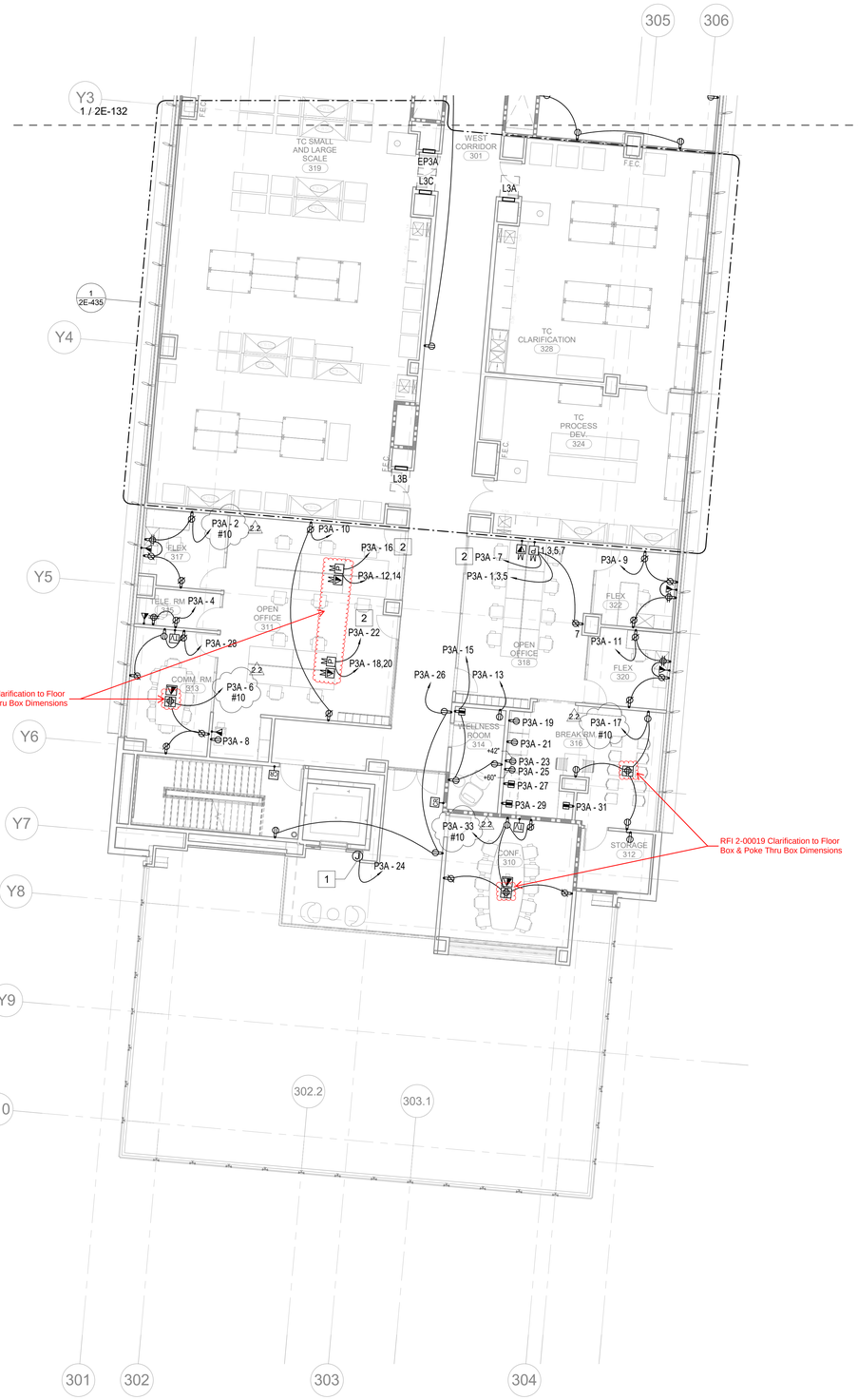
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
THIRD LEVEL - PART A - POWER

Sheet No.
2E-132

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002



SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. CIRCUIT EXTERIO LIGHTING VIA ASTRONOMICAL TIME CLOCK.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V, 20A, 1PH POWER FOR ELEVATOR SMOKE CURTAIN. COORDINATE LOCATION AND REQUIREMENTS WITH SMOKE CURTAIN MANUFACTURER PRIOR TO ROUGH-IN.
2	PROVIDE CONTROLLED CIRCUIT FOR FURNITURE RECEPTACLES.

1 LEVEL 03 - PART B - POWER

1/8" = 1'-0"

NORTH

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title
THIRD LEVEL - PART B - POWER

Sheet No.
2E-133

10/2/2017 10:38:39 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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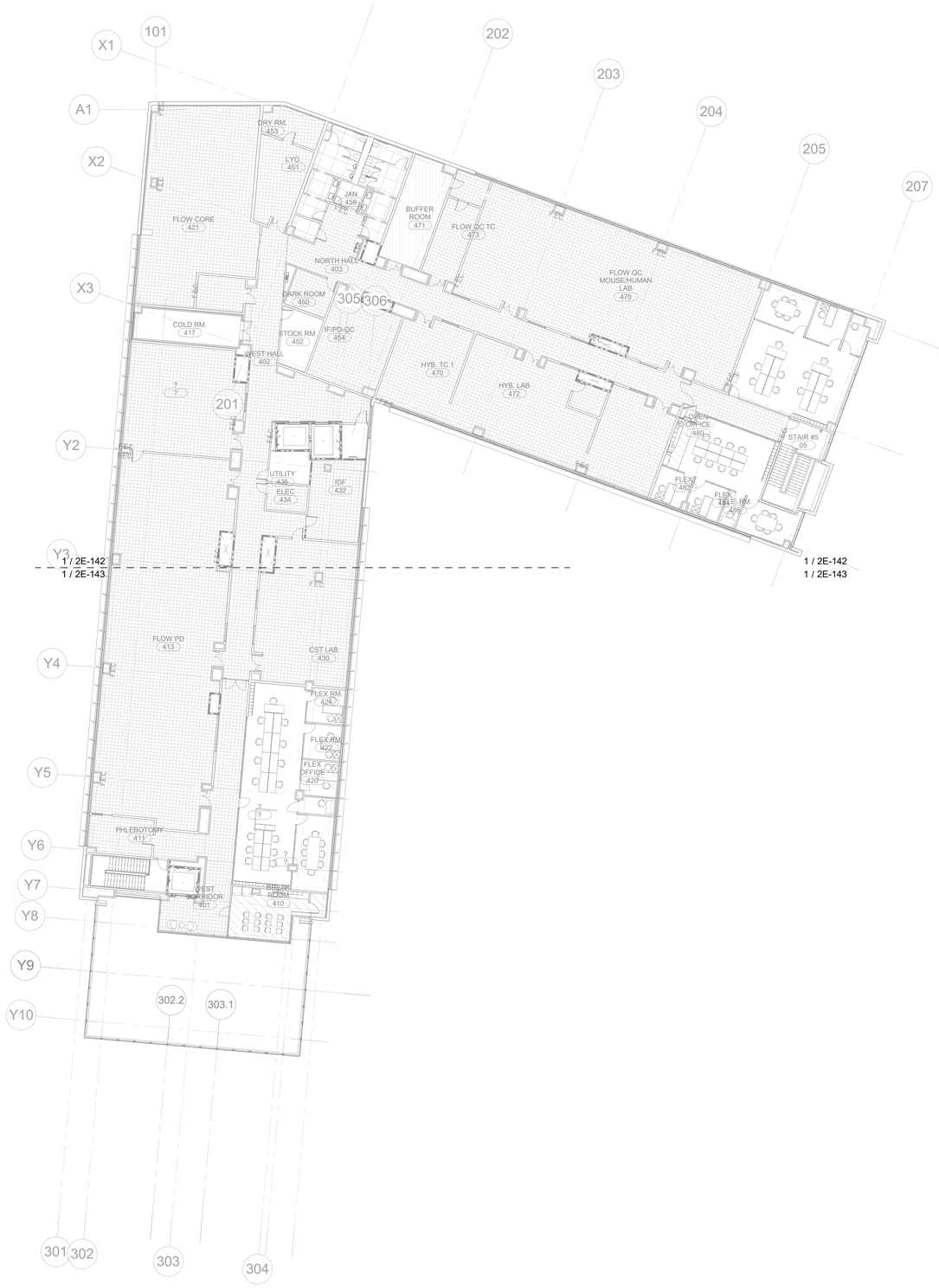
Link to the Sheet - 2G-002

8/7/2017 3:56:26 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

NORTH

1 **LEVEL 04 - OVERALL**

1/16" = 1'-0"

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

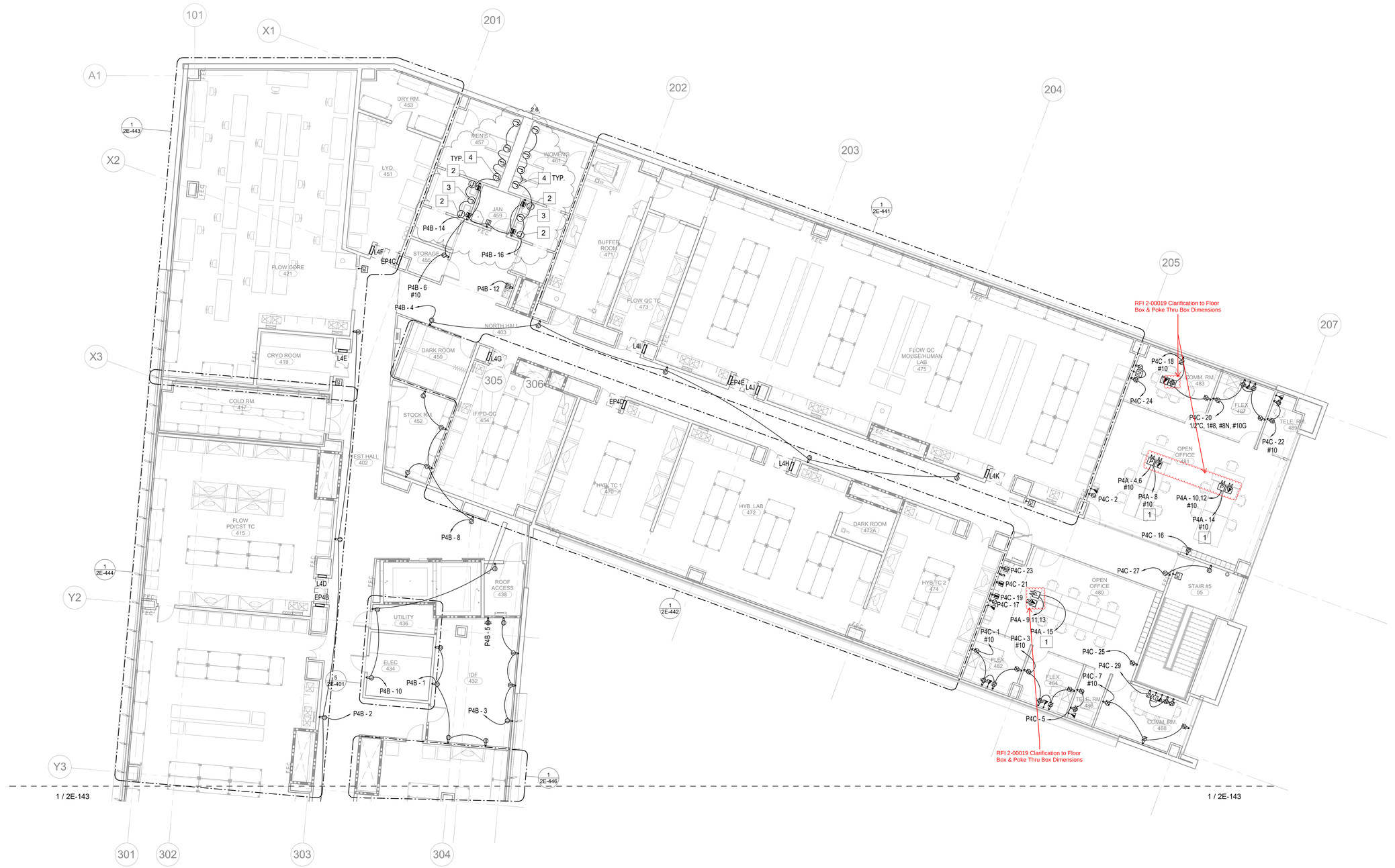
OVERALL FOURTH LEVEL FLOOR PLAN

Sheet No.

2E-141

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

1/19/2018 9:27:29 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



1 LEVEL 04 - PART A - POWER

1/8" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. CIRCUIT EXTERIOR LIGHTING VIA ASTRONOMICAL TIME CLOCK.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE CONTROLLED CIRCUIT FOR FURNITURE RECEPTACLES.
2	PROVIDE 120V POWER FOR PAPER TOWEL DISPENSER. COORDINATE LOCATION AND REQUIREMENTS WITH INTERIORS CONSULTANT PRIOR TO ROUGH-IN.
3	PROVIDE 120V POWER FOR SOAP DISPENSERS AND SINK FAUCETS. COORDINATE LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
4	PROVIDE 120V POWER FOR FLUSH VALVES. COORDINATE LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

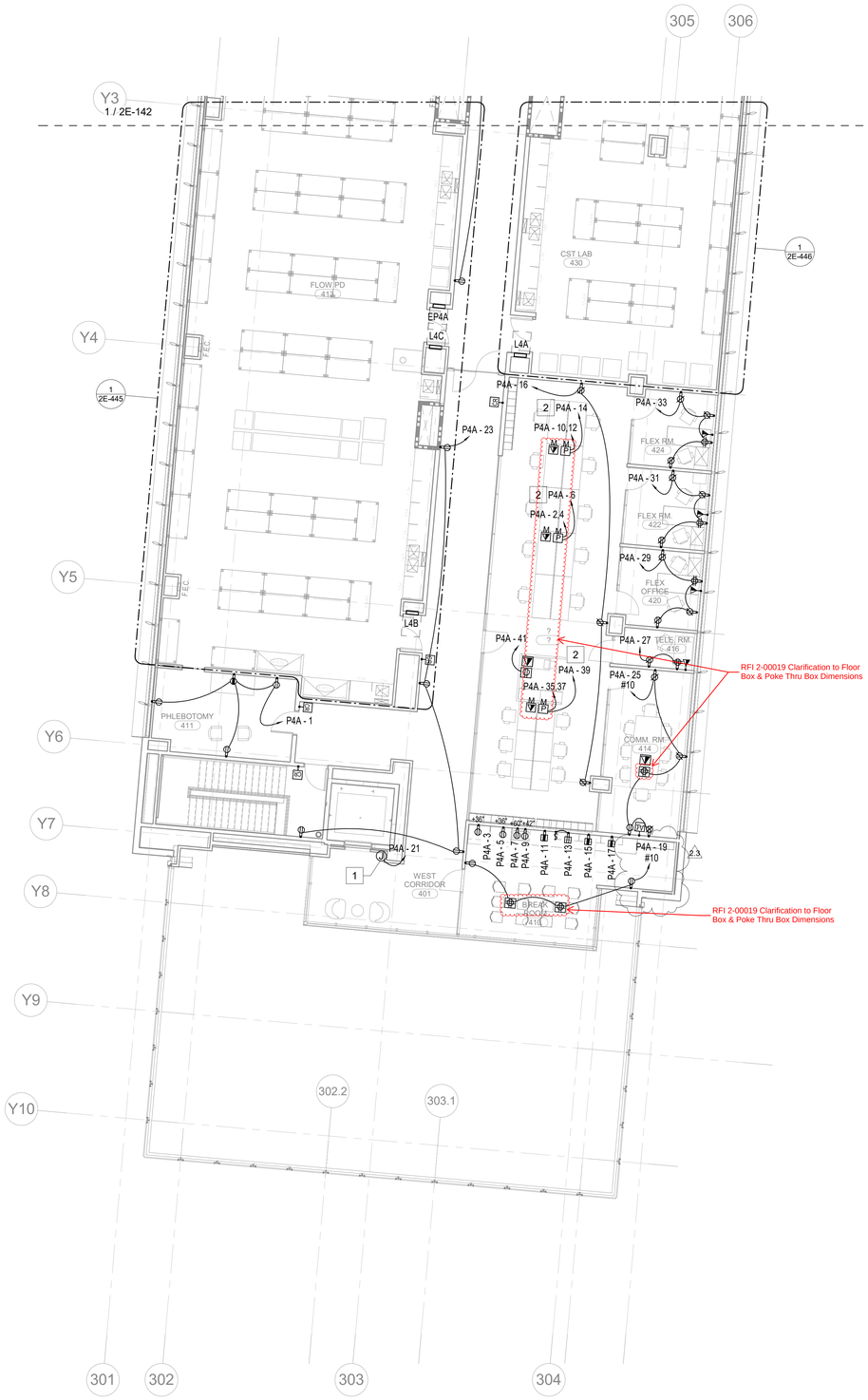
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
FOURTH LEVEL - PART A - POWER

Sheet No.
2E-142

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002



SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. CIRCUIT EXTERIO LIGHTING VIA ASTRONOMICAL TIME CLOCK.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V, 20A, 1PH POWER FOR ELEVATOR SMOKE CURTAIN. COORDINATE LOCATION AND REQUIREMENTS WITH SMOKE CURTAIN MANUFACTURER PRIOR TO ROUGH-IN.
2	PROVIDE CONTROLLED CIRCUIT FOR FURNITURE RECEPTACLES.

NORTH

1 **LEVEL 04 - PART B - POWER**

1/8" = 1'-0"

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

FOURTH LEVEL - PART B - POWER

Sheet No.

2E-143

11/17/2017 4:29:16 PM
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DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

4/21/2017 12:19:16 PM
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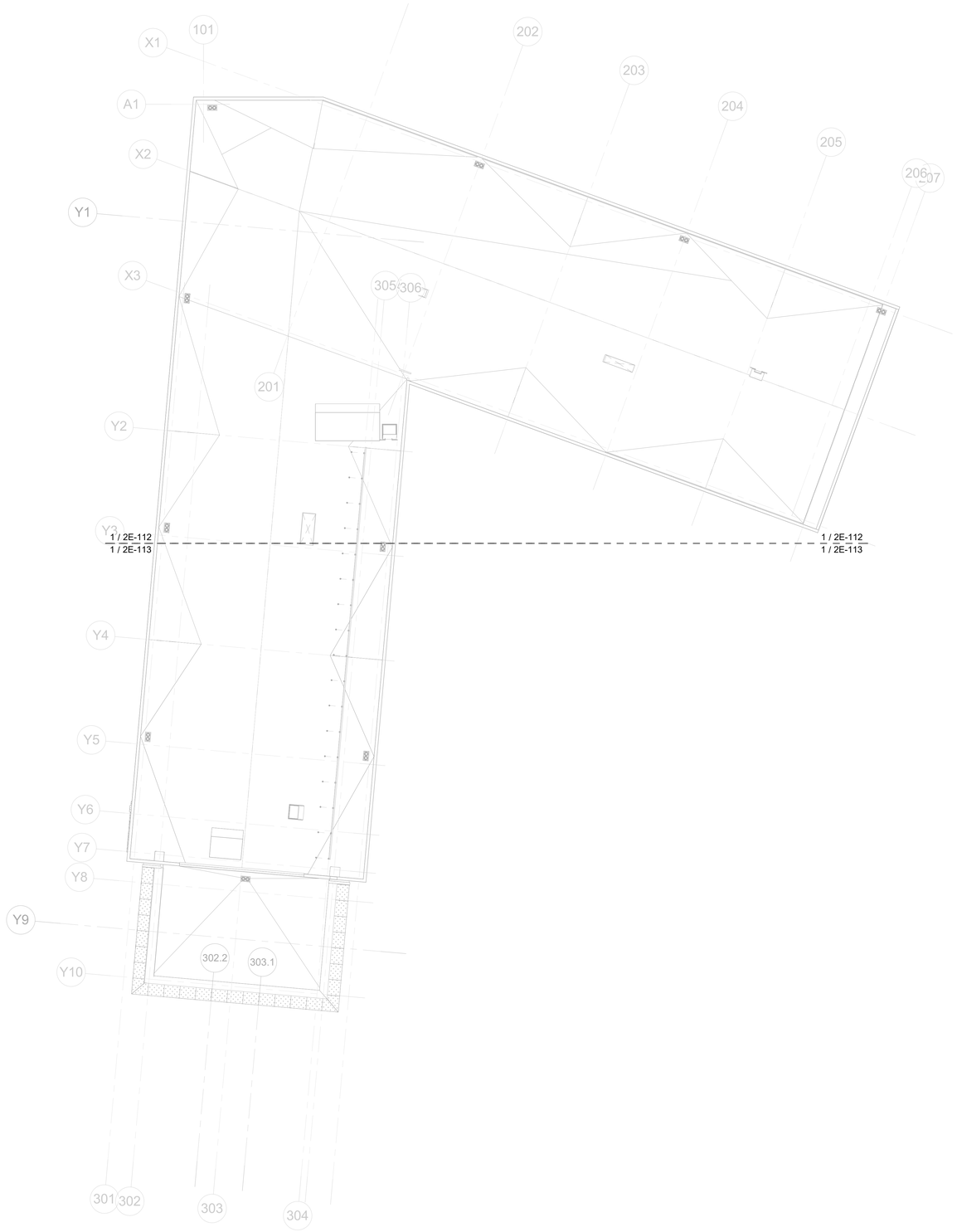

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

1 **ROOF LEVEL - OVERALL**

/ 1/16" = 1'-0"

NORTH

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title

OVERALL ROOF LEVEL FLOOR PLAN

Sheet No.

2E-151

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002

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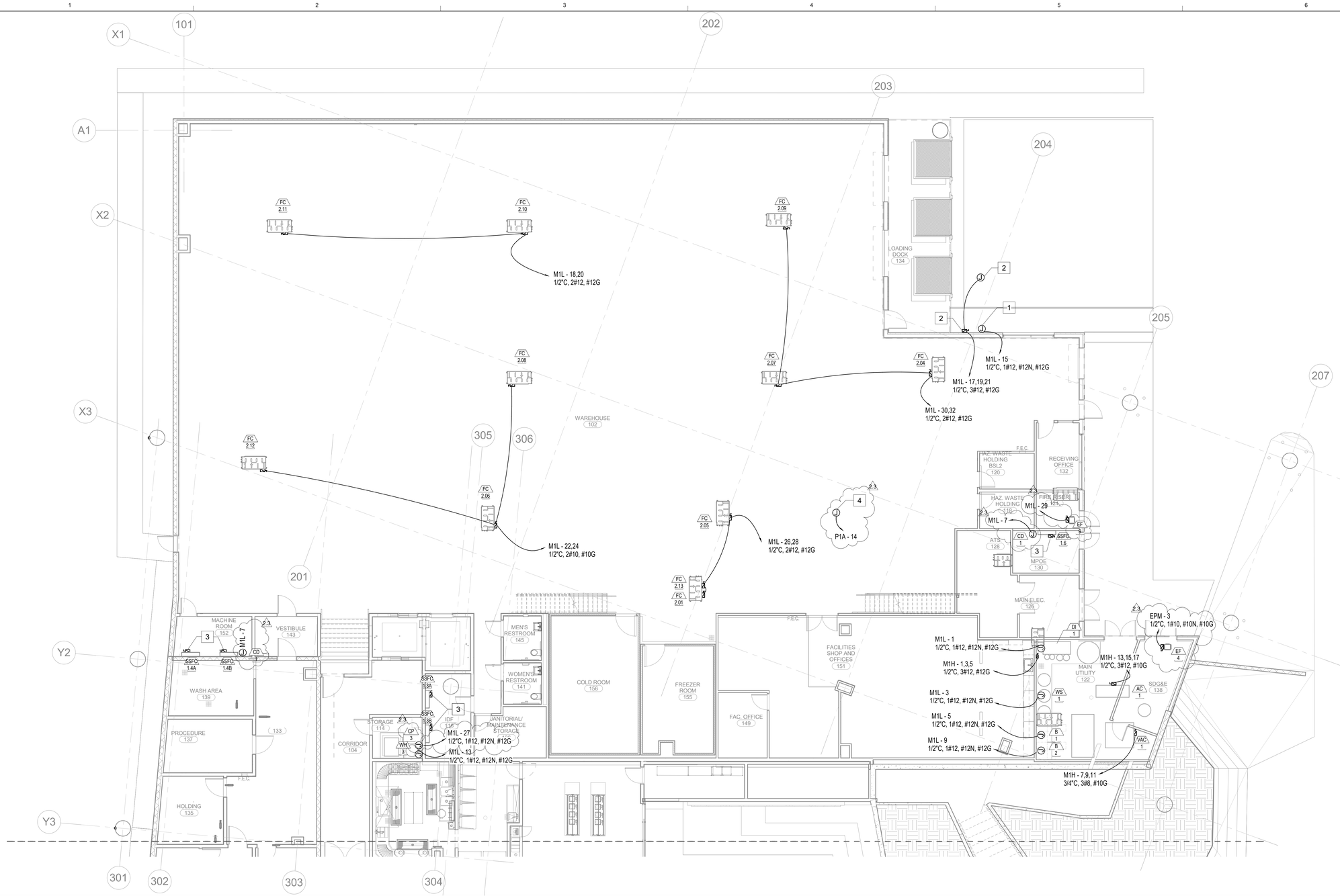

1 LEVEL 01 - PART A - MECH POWER

1/8" = 1'-0"

NORTH

GENERAL NOTES

2.3

1. PROVIDE 120V POWER WITH MOTOR RATED SWITCH FOR SMOKE FIRE DAMPERS. CIRCUIT VIA "P1A-16" AND "P1A-18" WITH A MAX OF (6) SMOKE FIRE DAMPERS PER CIRCUIT. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V, 1PH POWER FOR SUMP PUMP CONTROL PANEL. COORDINATE LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
2	PROVIDE 208V, 3PH POWER FOR SUMP PUMP FROM DISCONNECT. COORDINATE LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
3	INDOOR UNIT POWERED BY OUTDOOR UNIT.
4	PROVIDE 120V POWER FOR BUILDING RELIEF AND BUILDING OSA AIR VALVES IN THIS AREA. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

11/17/2017 4:29:18 PM

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GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

FIRST LEVEL - PART A - MECHANICAL POWER

Sheet No.

2E-212

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 4:29:20 PM
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GENERAL NOTES

2.3

1. PROVIDE 120V POWER WITH MOTOR RATED SWITCH FOR SMOKE FIRE DAMPERS. CIRCUIT VIA "P1B-31" AND "P1B-33" WITH A MAX OF (6) SMOKE FIRE DAMPERS PER CIRCUIT. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	INDOOR UNIT POWERED BY OUTDOOR UNIT.
2	PROVIDE 120V POWER FOR VAVs IN THIS AREA. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
3	PROVIDE 120V POWER FOR BUILDING RELIEF AND BUILDING OSA AIR VALVES IN THIS AREA. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

1 **LEVEL 01 - PART B - MECH POWER**

1/8" = 1'-0"

NORTH

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

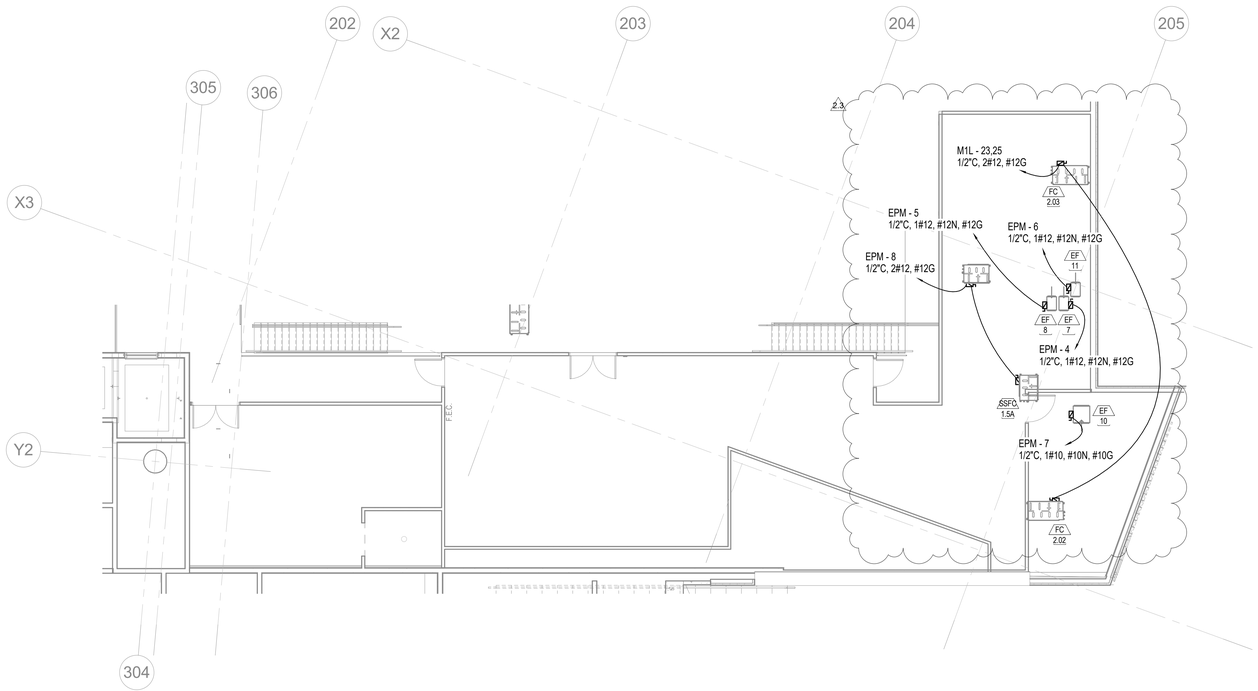
FIRST LEVEL - PART B - MECHANICAL POWER

Sheet No.

2E-213

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 4:29:21 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 MEZZANINE - POWER
1/8" = 1'-0"

GENERAL NOTES

1. -

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

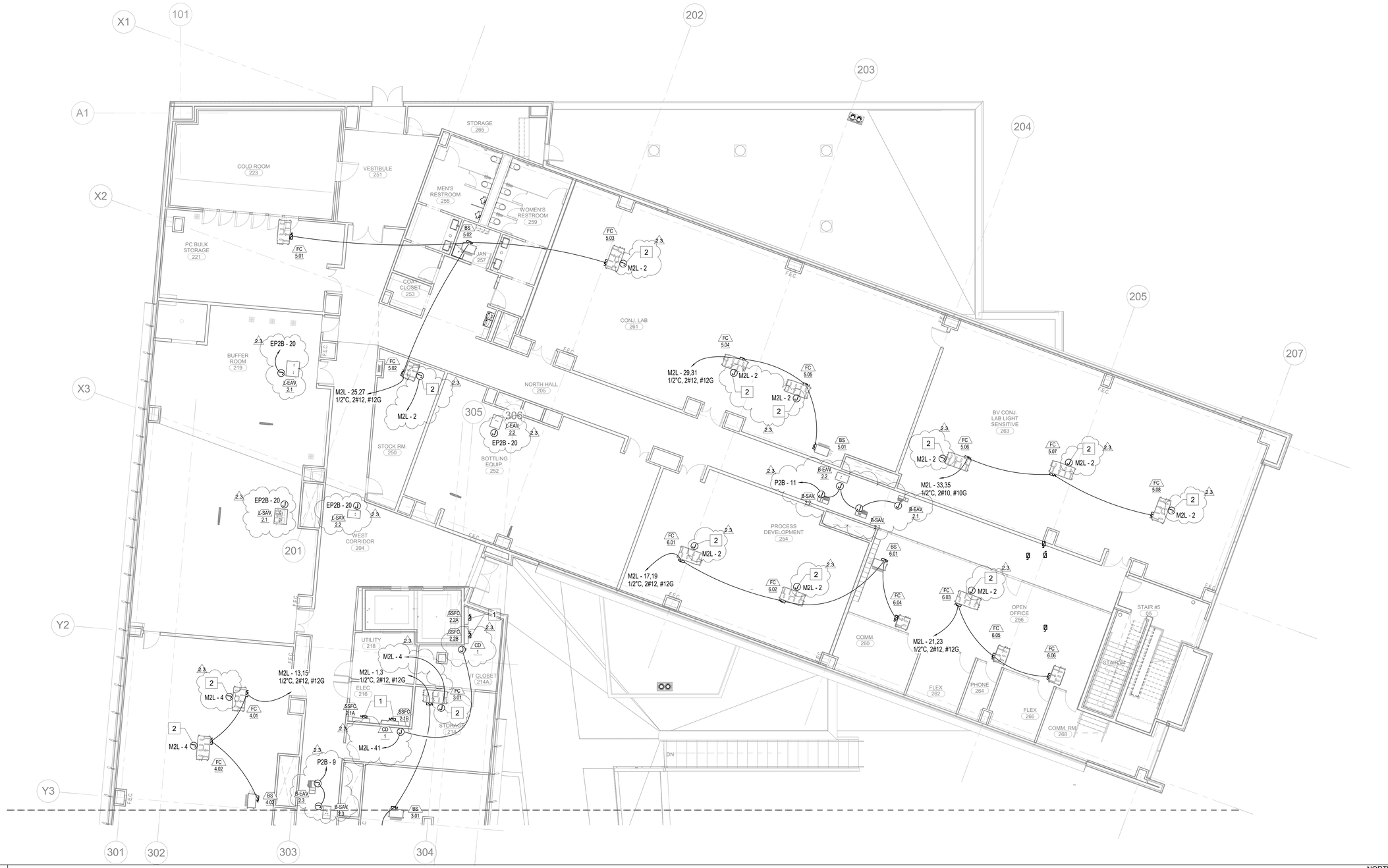
Sheet Title
MEZZANINE LEVEL - MECHANICAL POWER

Sheet No. 2.3
2E-214

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

11/17/2017 4:29:25 PM



1 LEVEL 02 - PART A - MECH POWER

1/8" = 1'-0"

NORTH

GENERAL NOTES

1. PROVIDE 120V POWER WITH MOTOR RATED SWITCH FOR SMOKE FIRE DAMPERS. CIRCUIT VIA "P2B-13" WITH A MAX OF (6) SMOKE FIRE DAMPERS PER CIRCUIT. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	INDOOR UNIT POWERED BY OUTDOOR UNIT.
2	PROVIDE 120V POWER FOR SMOKE DETECTOR IN SUPPLY AIR DUCT. COORDINATE LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1IFC

ADDENDUM #2.2
10.03.17

Sheet Title

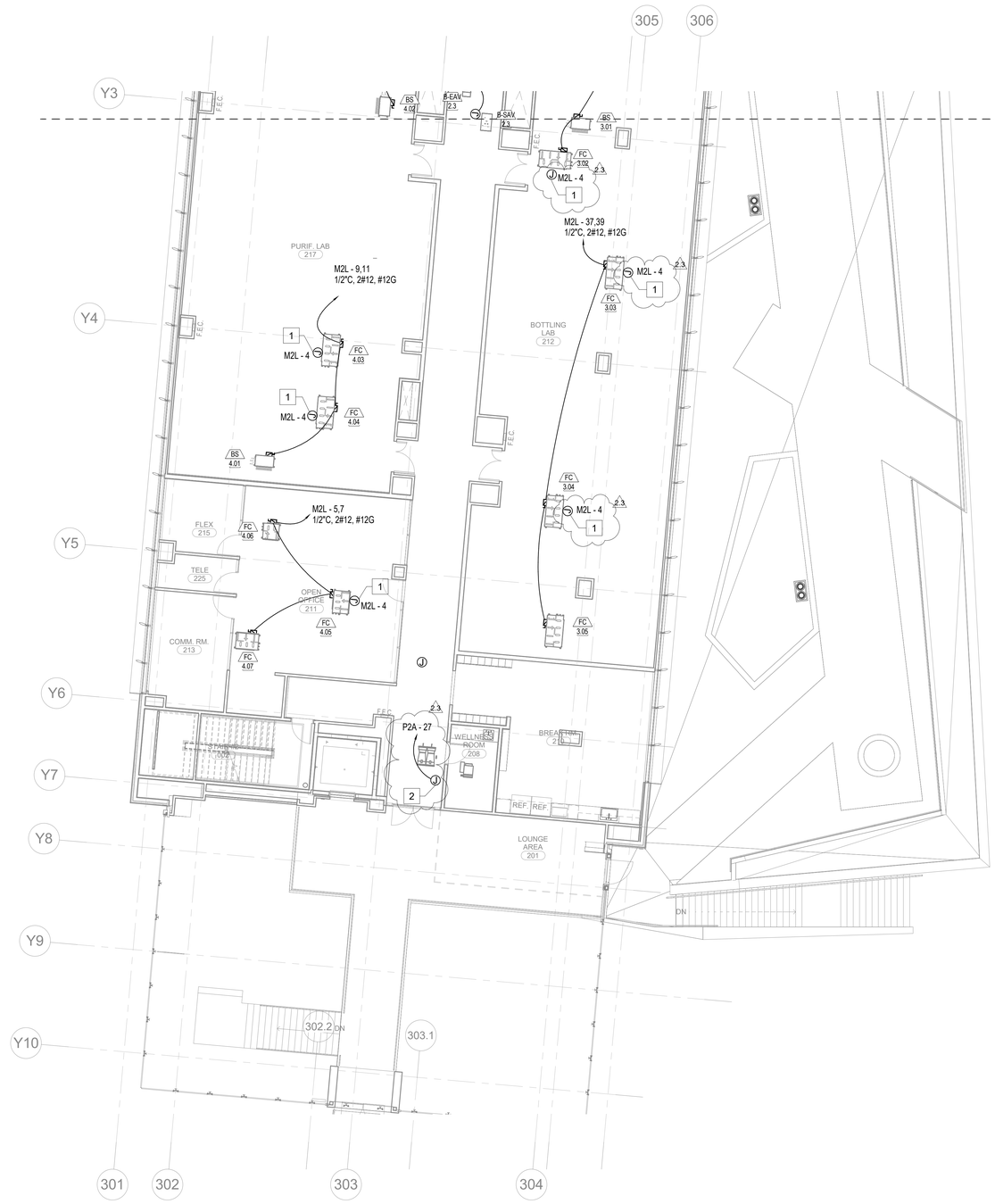
SECOND LEVEL - PART A - MECHANICAL POWER

Sheet No.

2E-222

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 4:29:28 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



GENERAL NOTES

1. PROVIDE 120V POWER WITH MOTOR RATED SWITCH FOR SMOKE FIRE DAMPERS. CIRCUIT VIA "P2B-15" WITH A MAX OF (6) SMOKE FIRE DAMPERS PER CIRCUIT. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V POWER FOR SMOKE DETECTOR IN SUPPLY AIR DUCT. COORDINATE LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.
2	PROVIDE 120V POWER FOR VAVs IN THIS AREA. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

1 **LEVEL 02 - PART B - MECH POWER**

1/8" = 1'-0"

NORTH

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

SECOND LEVEL - PART B - MECHANICAL POWER

Sheet No.

2E-223

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

11/17/2017 4:29:32 PM
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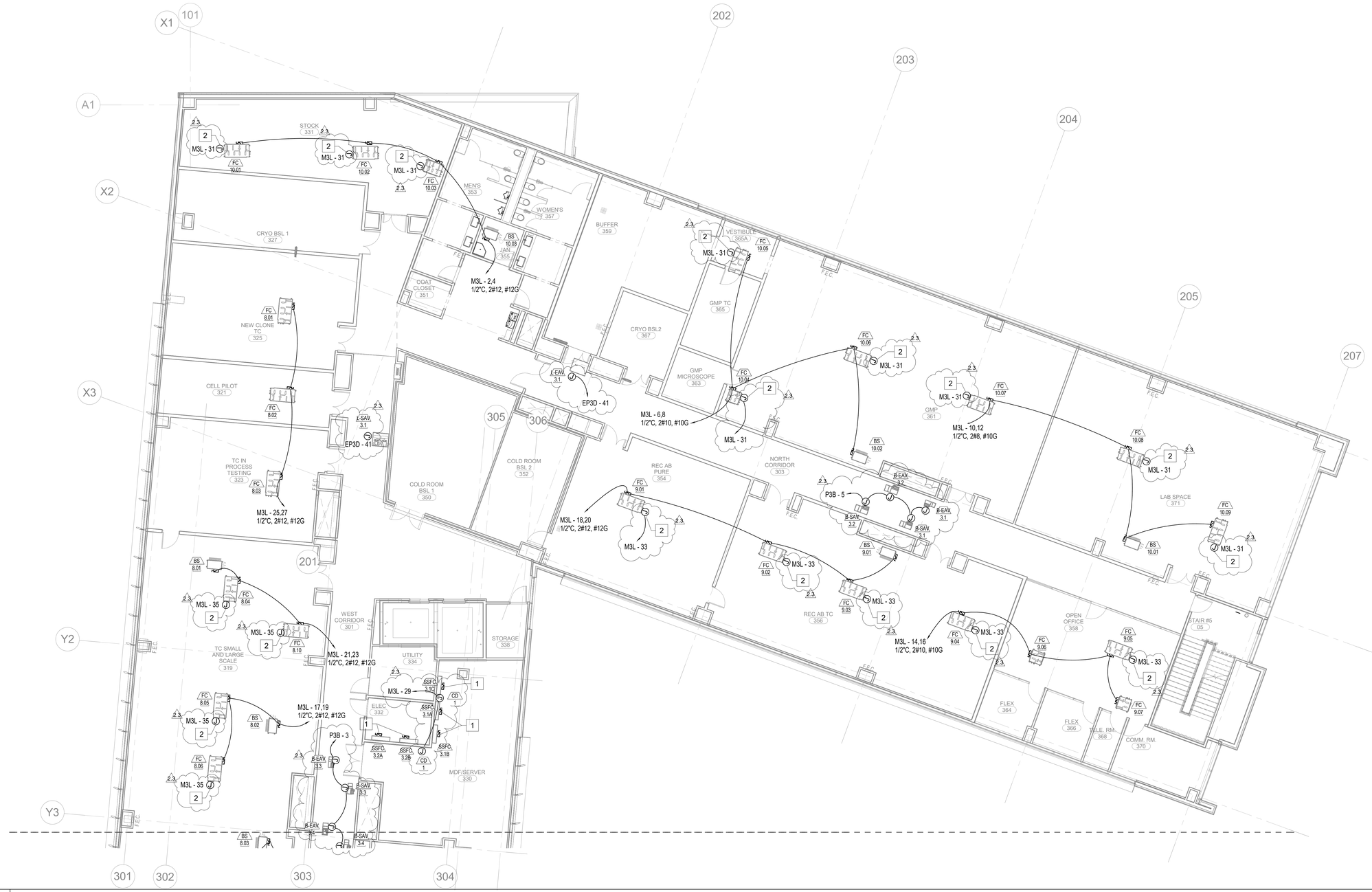

1 LEVEL 03 - PART A - MECH POWER

1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE 120V POWER WITH MOTOR RATED SWITCH FOR SMOKE FIRE DAMPERS. CIRCUIT VIA "P3B-7" WITH A MAX OF (6) SMOKE FIRE DAMPERS PER CIRCUIT. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	INDOOR UNIT POWERED BY OUTDOOR UNIT.
2	PROVIDE 120V POWER FOR SMOKE DETECTOR IN SUPPLY AIR DUCT. COORDINATE LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1IFC

ADDENDUM #2.2
10.03.17

Sheet Title
THIRD LEVEL - PART A - MECHANICAL POWER

Sheet No.
2E-232

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



GENERAL NOTES

2.3

1. PROVIDE 120V POWER WITH MOTOR RATED SWITCH FOR SMOKE FIRE DAMPERS. CIRCUIT VIA "P3B-9" AND "P3B-11" WITH A MAX OF (6) SMOKE FIRE DAMPERS PER CIRCUIT. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V POWER FOR SMOKE DETECTOR IN SUPPLY AIR DUCT. COORDINATE LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.
2	PROVIDE 120V POWER FOR VAVs IN THIS AREA. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

1 / **LEVEL 03 - PART B - MECH POWER**

1/8" = 1'-0"

NORTH

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

THIRD LEVEL - PART B - MECHANICAL POWER

Sheet No.

2E-233

11/17/2017 4:29:35 PM
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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

11/17/2017 4:29:40 PM



1 LEVEL 04 - PART A - MECH POWER

1/8" = 1'-0"

NORTH

GENERAL NOTES

1. PROVIDE 120V POWER WITH MOTOR RATED SWITCH FOR SMOKE FIRE DAMPERS. CIRCUIT VIA "P4B-11" WITH A MAX OF (6) SMOKE FIRE DAMPERS PER CIRCUIT. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	INDOOR UNIT POWERED BY OUTDOOR UNIT.
2	PROVIDE 120V POWER FOR SMOKE DETECTOR IN SUPPLY AIR DUCT. COORDINATE LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

FOURTH LEVEL - PART A - MECHANICAL POWER

Sheet No.

2E-242

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 4:28:43 PM
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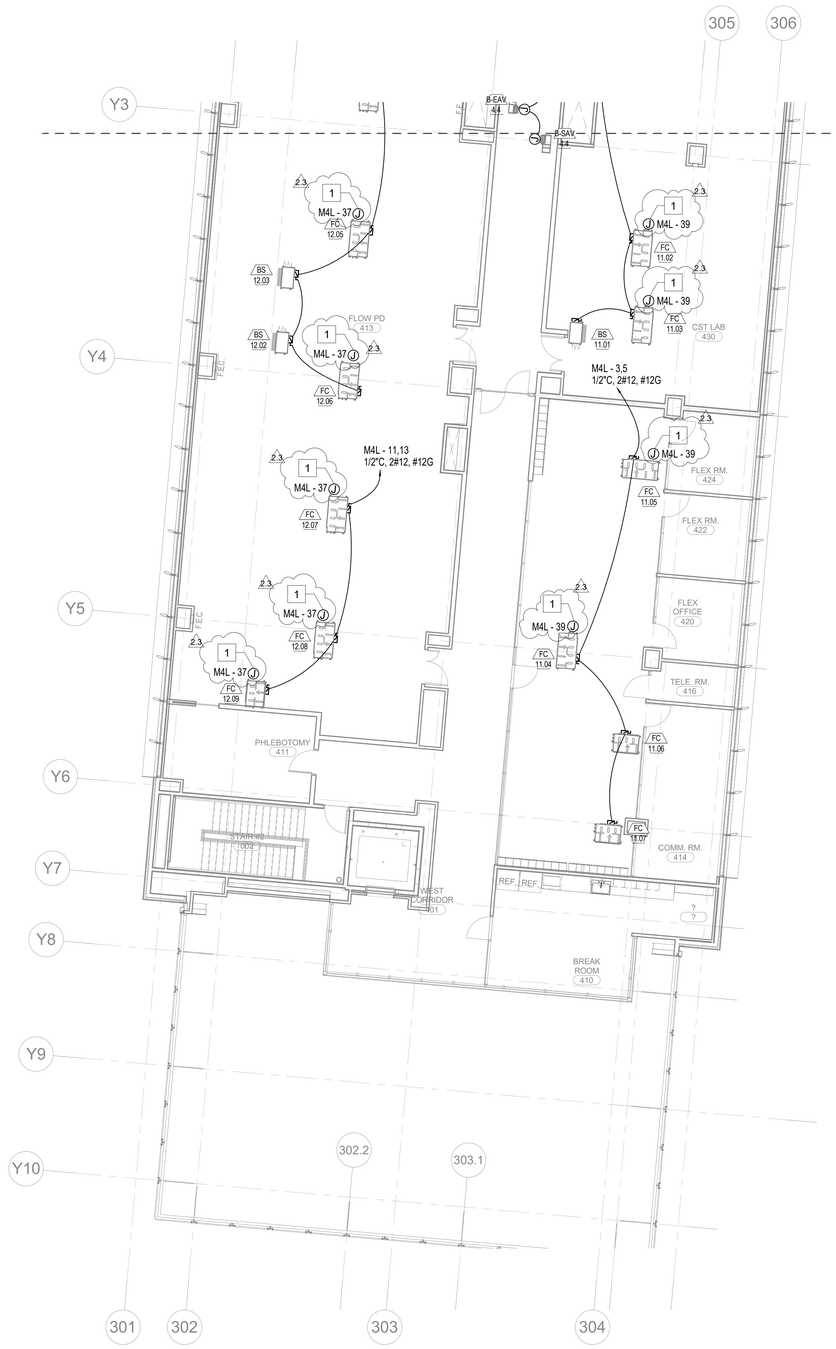


GENERAL NOTES

2.3

1. PROVIDE 120V POWER WITH MOTOR RATED SWITCH FOR SMOKE FIRE DAMPERS. CIRCUIT VIA "P4B-13" WITH A MAX OF (6) SMOKE FIRE DAMPERS PER CIRCUIT. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V POWER FOR SMOKE DETECTOR IN SUPPLY AIR DUCT. COORDINATE LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.

1 / **LEVEL 04 - PART B - MECH POWER**

1/8" = 1'-0"

NORTH

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

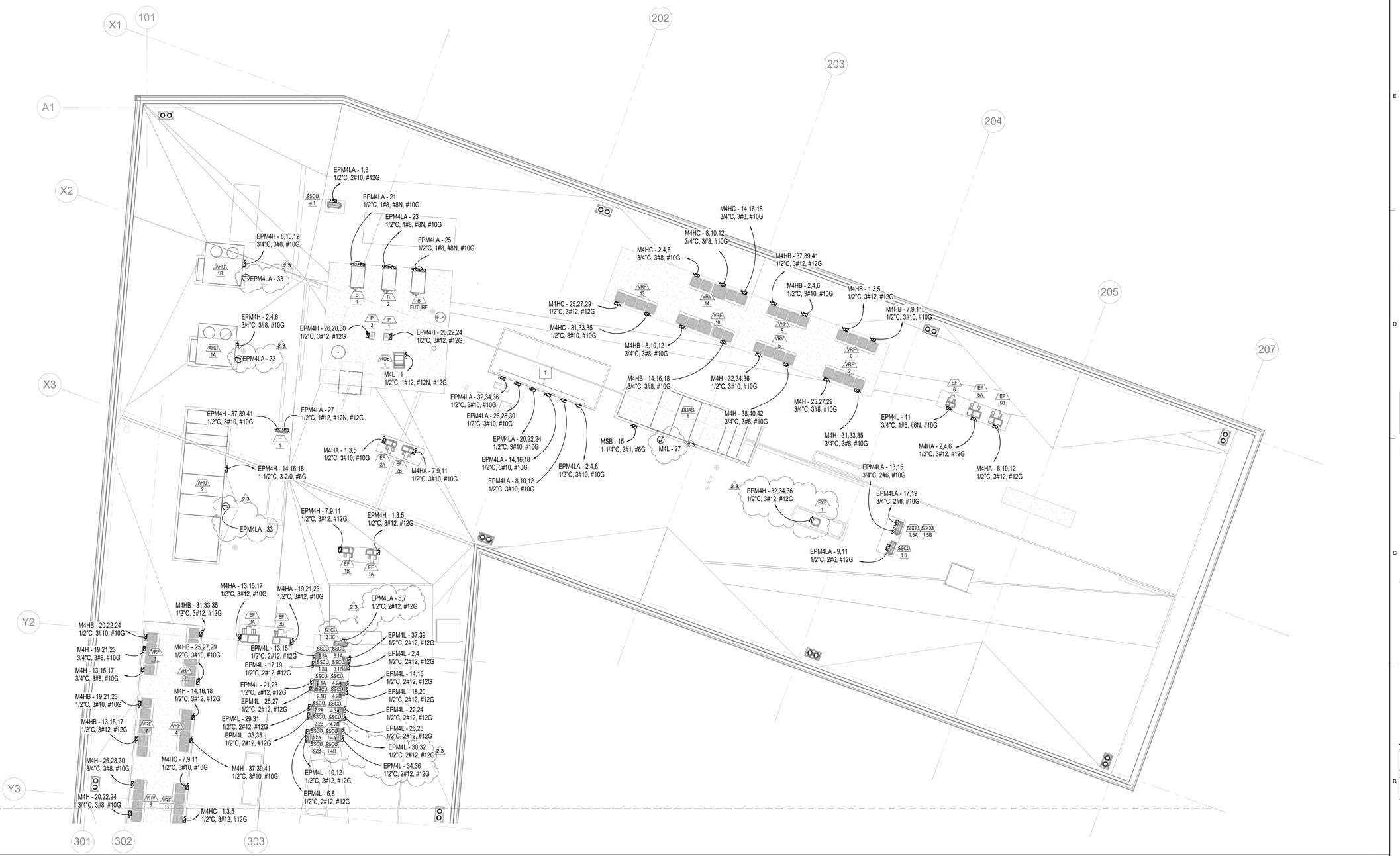
Sheet Title

FOURTH LEVEL - PART B - MECHANICAL POWER

Sheet No.

2E-243

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



1 LEVEL 04 - PART A - MECHANICAL POWER

1/8" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. WEATHERPROOF, GFCI, RECEPTACLES TO BE PROVIDED WITHIN 25' OF ANY OUTDOOR MECHANICAL EQUIPMENT.
2. ALL ELECTRICAL EQUIPMENT LOCATED OUTSIDE TO BE WEATHERPROOF RATED.
3. REFER TO PLUMBING AND MECHANICAL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT. VERIFY FUSE SIZES WITH MANUFACTURER RECOMMENDATIONS PRIOR TO ROUGH-IN.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	COORDINATE REQUIREMENTS AND LOCATION OF COLD ROOM REFRIGERATION RACKS WITH MECHANICAL AND COLD ROOM MANUFACTURER PRIOR TO ROUGH-IN.

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GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title
ROOF LEVEL - PART A - MECHANICAL POWER

Sheet No.
2E-252

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 4:29:47 PM
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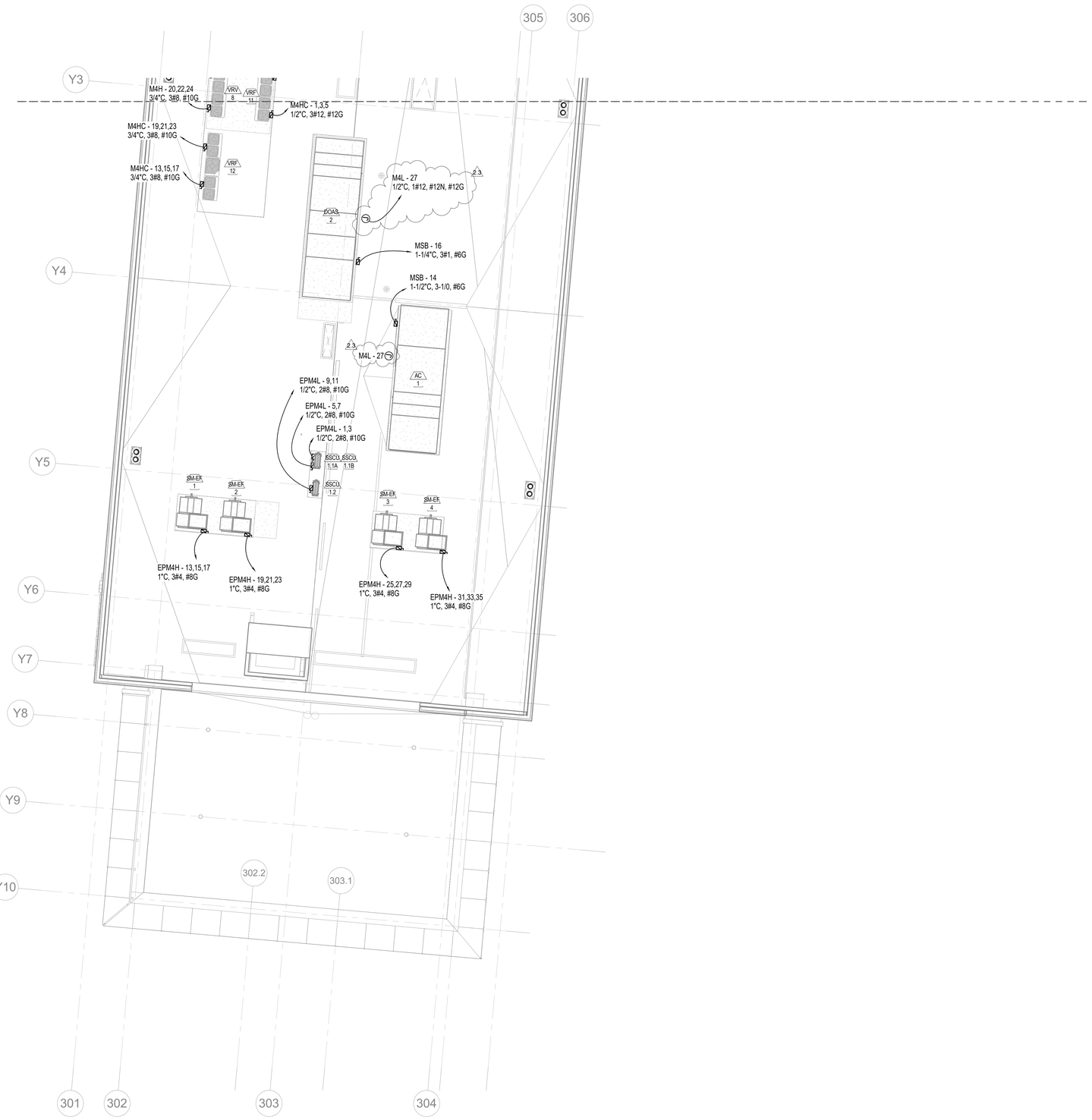

SHEET GENERAL NOTES

1. WEATHERPROOF, GFCI, RECEPTACLES TO BE PROVIDED WITHIN 25' OF ANY OUTDOOR MECHANICAL EQUIPMENT.
2. ALL ELECTRICAL EQUIPMENT LOCATED OUTSIDE TO BE WEATHERPROOF RATED.
3. REFER TO PLUMBING AND MECHANICAL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT. VERIFY FUSE SIZES WITH MANUFACTURER RECOMMENDATIONS PRIOR TO ROUGH-IN.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

1 / **LEVEL 04 - PART B - MECHANICAL POWER**

1/8" = 1'-0"

NORTH

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

ROOF LEVEL - PART B - MECHANICAL POWER

Sheet No.

2E-253

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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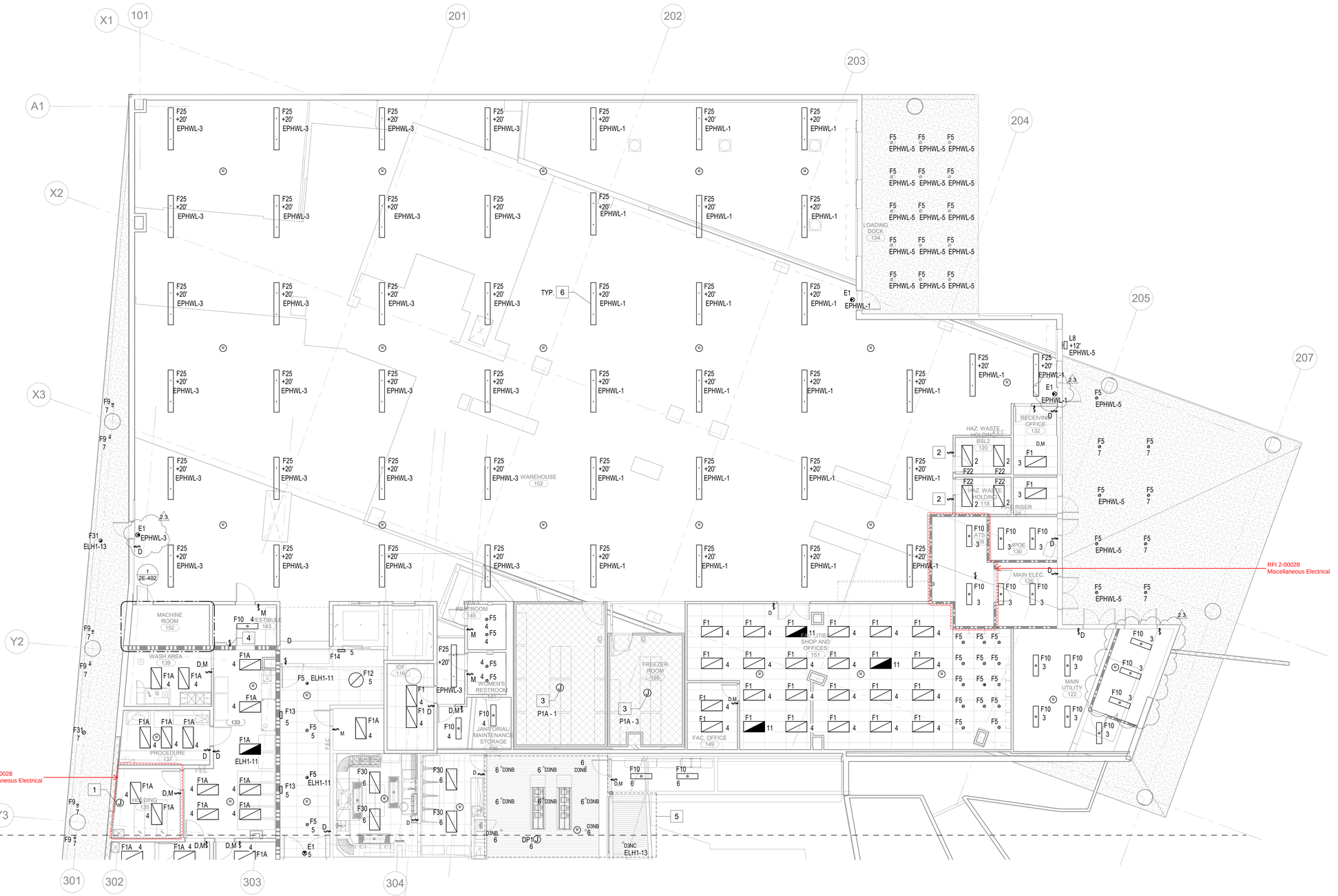

1 LEVEL 01 - PART A - LIGHTING

1/8" = 1'-0"

GENERAL NOTES:

1. ALL LIGHTING TO FIXTURES TO BE CIRCUITED TO PANEL LT1, U.O.N.
2. CIRCUIT EXTERIOR LIGHTING VIA ASTRONOMICAL TIME CLOCK.
3. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	CONTRACTOR TO PROVIDE POWER FOR INCANDESCENT FIXTURES FOR DIURNAL CYCLE LIGHTING NEAR ANIMAL CAGES.
2	PROVIDE LIGHT SWITCH WITH PILOT LIGHT TO INDICATE ON/OFF STATUS.
3	PROVIDE JUNCTION BOX IN CEILING FOR LIGHTING FIXTURES FOR COLD ROOM.
4	LIGHT SWITCH OPERATES LIGHTING IN MECHANICAL ATTIC ACCESSBLE BY LADDER.
5	LIGHTING FIXTURES WITHIN DASHED LINE SHOWN FOR CIRCUTING INFORMATION ONLY. SEE LIGHTING DESIGNER "LT" SERIES SHEETS FOR LIGHTNING NOTES, SCHEDULES AND OTHER INFORMATION UNO.
6	ALL LIGHTING IN WAREHOUSE IS CIRCUITED VIA PANEL "EPHWL" TO EMERGENCY GENERATOR POWER.

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

FIRST LEVEL - PART A - LIGHTING

Sheet No.

2E-312

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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GENERAL NOTES:

1. ALL LIGHTING TO FIXTURES TO BE CIRCUITED TO PANEL LT1, U.O.N.
2. CIRCUIT EXTERIOR LIGHTING VIA ASTRONOMICAL TIME CLOCK.
3. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	CONTRACTOR TO PROVIDE POWER FOR INCANDESCENT FIXTURES FOR DIURNAL CYCLE LIGHTING NEAR ANIMAL CAGES.
2	LIGHTING FIXTURES WITHIN DASHED LINE SHOWN FOR CIRCUITING INFORMATION ONLY. SEE LIGHTING DESIGNER "LT" SERIES SHEETS FOR LIGHTNING NOTES, SCHEDULES AND OTHER INFORMATION UNO.

1 **LEVEL 01 - PART B - LIGHTING**

1/8" = 1'-0"

NORTH

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

FIRST LEVEL - PART B - LIGHTING

Sheet No.

2E-313

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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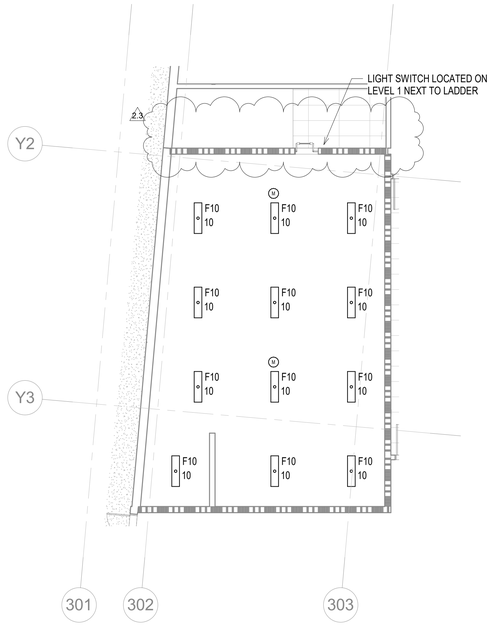
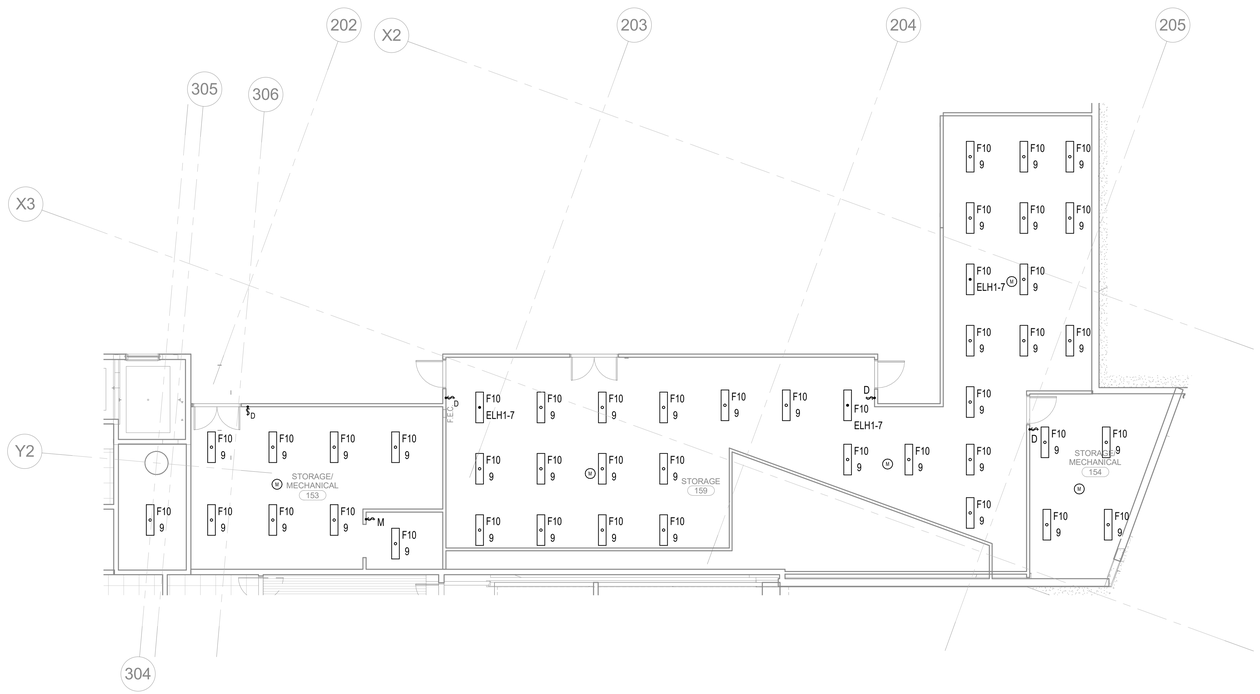
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



2 MECHANICAL ATTIC - LIGHTING

1/8" = 1'-0"



1 MEZZANINE - LIGHTING

1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. ALL LIGHTING TO FIXTURES TO BE CIRCUITED TO PANEL LT1, U.O.N.
2. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC

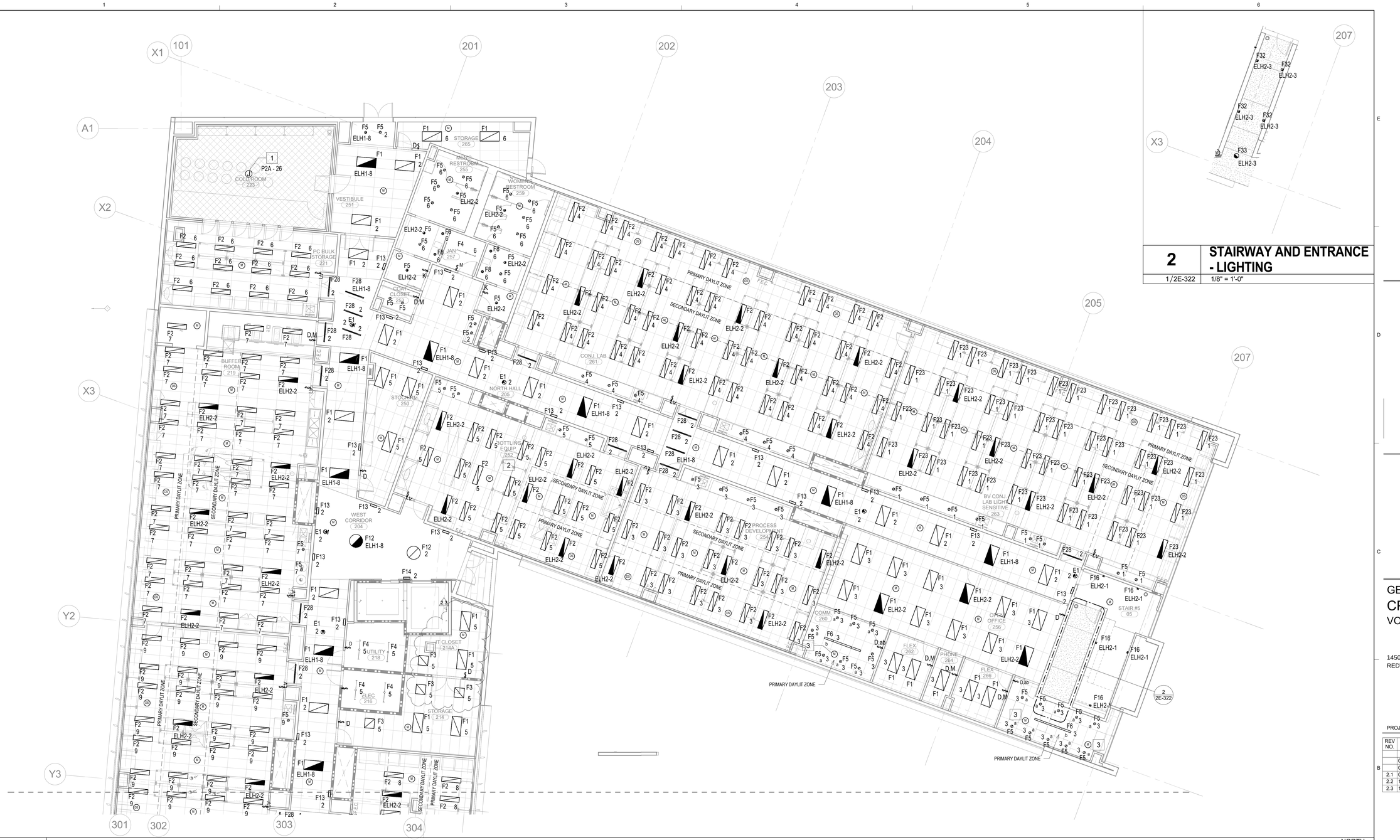
ADDENDUM #2.2
10.03.17

Sheet Title
MEZZANINE LEVEL - LIGHTING

Sheet No.
2E-314

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/7/2017 4:30:00 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



2 STAIRWAY AND ENTRANCE - LIGHTING

1/2E-322 | 1/8" = 1'-0"

1 LEVEL 02 - PART A - LIGHTING

/ | 1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. ALL LIGHTING TO FIXTURES TO BE CIRCUITED TO PANEL LT2, U.O.N.
2. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE JUNCTION BOX IN CEILING FOR LIGHTING FIXTURES FOR COLD ROOM.
2	PROVIDE TASK LIGHTING LOCATED UNDER SHELF AT WORK BENCHES IN ROOM "252 BOTTLING EQUIP". COORDINATE LOCATION WITH END USER.
3	PROVIDE COMBINATION MOTION/DAYLIGHT SENSOR.

RFI 2-00029
Miscellaneous Electrical

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

SECOND LEVEL - PART A - LIGHTING

Sheet No.

2E-322

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



GENERAL NOTES:

1. ALL LIGHTING AND FIXTURES TO BE CIRCUITED TO PANEL LT2, U.O.N.
2. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V, 1PH POWER FOR THEATRICAL LIGHTING. COORDINATE LOCATION AND REQUIREMENTS WITH LIGHTING DESIGNER DRAWINGS PRIOR TO ROUGH-IN.
2	PROVIDE COMBINATION MOTION/DAYLIGHT SENSOR.
3	LIGHTING FIXTURES WITHIN DASHED LINE SHOWN FOR CIRCUITING INFORMATION ONLY. SEE LIGHTING DESIGNER "LT" SERIES SHEETS FOR LIGHTNING NOTES, SCHEDULES AND OTHER INFORMATION UNO.

1 **LEVEL 02 - PART B - LIGHTING**

1/8" = 1'-0"

NORTH

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

SECOND LEVEL - PART B - LIGHTING

Sheet No.

2E-323

11/7/2017 4:30:04 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 LEVEL 03 - PART A - LIGHTING

1/8" = 1'-0"

NORTH

GENERAL NOTES:

A. ALL LIGHTING TO FIXTURES TO BE CIRCUITED TO PANEL LT3, U.O.N.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE JUNCTION BOX IN CEILING FOR LIGHTING FIXTURES FOR COLD ROOM.
2	PROVIDE COMBINATION MOTION/DAYLIGHT SENSOR.

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title

THIRD LEVEL - PART A - LIGHTING

Sheet No.

2E-332

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

11/17/2017 4:30:12 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



GENERAL NOTES:

1. ALL LIGHTING TO FIXTURES TO BE CIRCUITED TO PANEL LT3, U.O.N.
2. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE COMBINATION MOTION/DAYLIGHT SENSOR.

1 LEVEL 03 - PART B - LIGHTING

1/8" = 1'-0"

NORTH

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

THIRD LEVEL - PART B - LIGHTING

Sheet No.

2E-333

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 4:30:17 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 LEVEL 04 - PART A - LIGHTING

1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. ALL LIGHTING TO FIXTURES TO BE CIRCUITED TO PANEL LT4, U.O.N.
2. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE JUNCTION BOX IN CEILING FOR LIGHTING FIXTURES FOR COLD ROOM.
2	PROVIDE COMBINATION MOTION/DAYLIGHT SENSOR.

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title
FOURTH LEVEL - PART A - LIGHTING

Sheet No.
2E-342

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 4:30:20 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



GENERAL NOTES:

1. ALL LIGHTING TO FIXTURES TO BE CIRCUITED TO PANEL LT4, U.O.N.
2. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 277V, 1PH POWER FOR BACK-LIT ROOF PARAPET SIGN. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
2	LIGHTING FIXTURES WITHIN DASHED LINE SHOWN FOR CIRCUITING INFORMATION ONLY. SEE LIGHTING DESIGNER "LT" SERIES SHEETS FOR LIGHTNING NOTES, SCHEDULES AND OTHER INFORMATION UNO.

NORTH

1 **LEVEL 04 - PART B - LIGHTING**

1/8" = 1'-0"

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

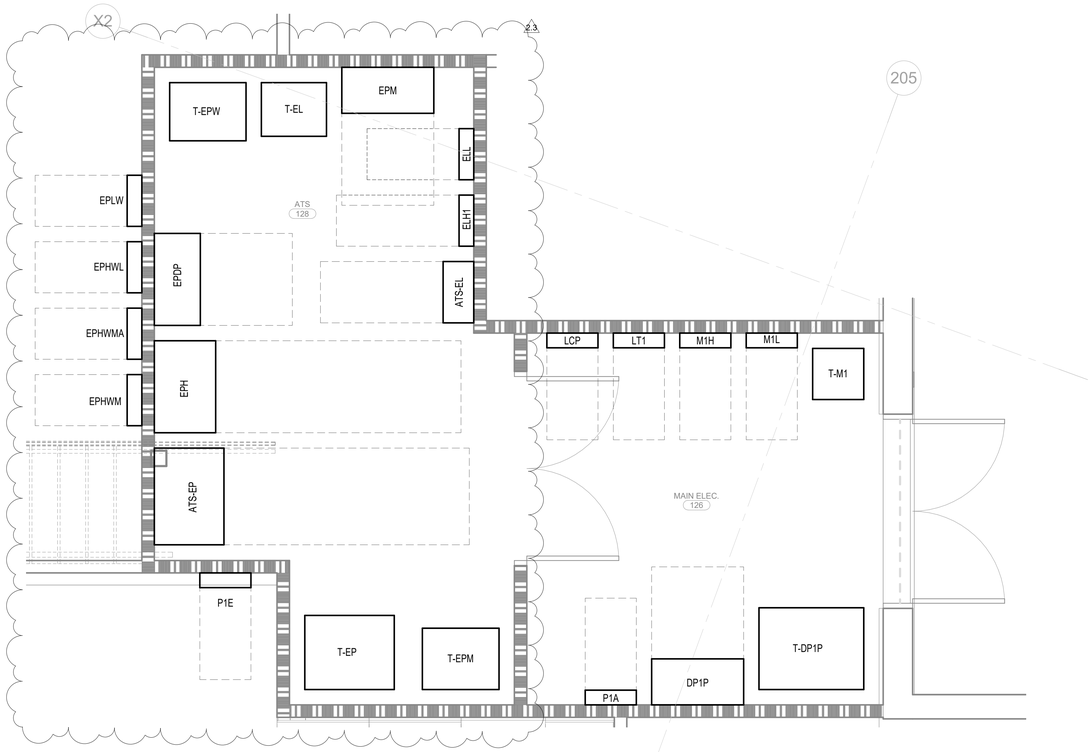
FOURTH LEVEL - PART B - LIGHTING

Sheet No.

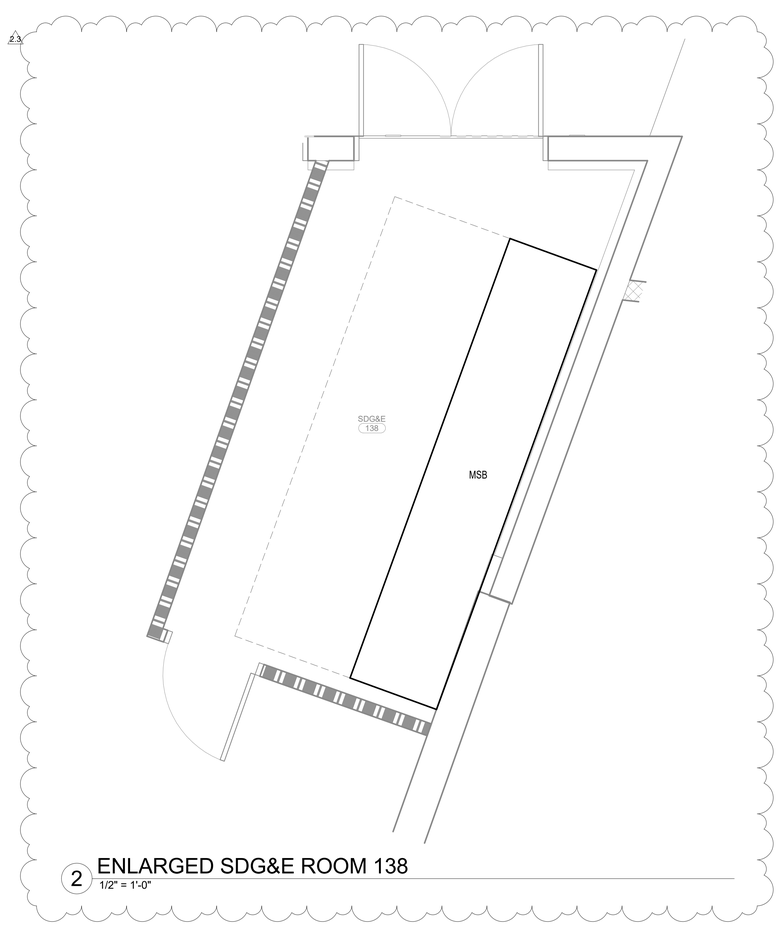
2E-343

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

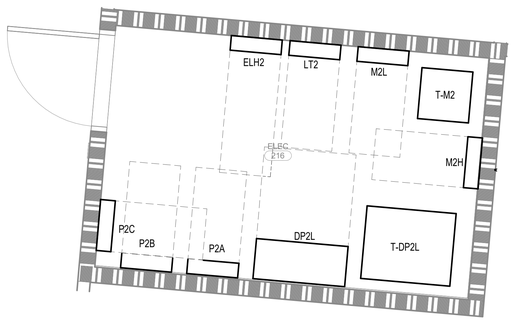
11/17/2017 4:30:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



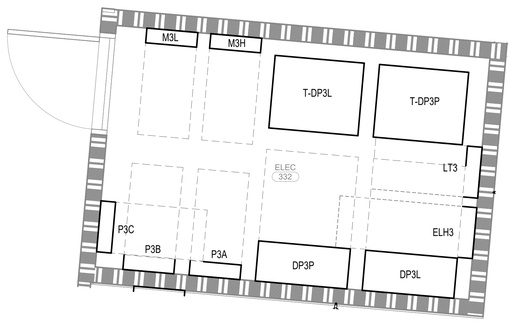
1 ENLARGED ELECTRICAL ROOM 126 & ATS ROOM 128
1/2" = 1'-0"



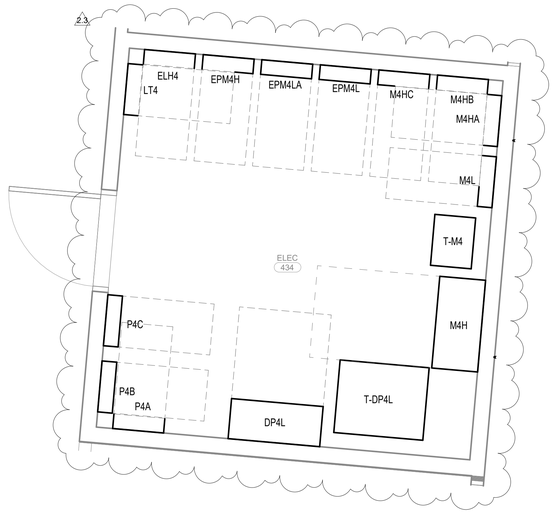
2 ENLARGED SDG&E ROOM 138
1/2" = 1'-0"



3 ENLARGED ELECTRICAL ROOM 216
1/2" = 1'-0"



4 ENLARGED ELECTRICAL ROOM 332
1/2" = 1'-0"



5 ENLARGED ELECTRICAL ROOM 434
1/2" = 1'-0"

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title
ENLARGED ELECTRICAL PLANS

Sheet No.
2E-401

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

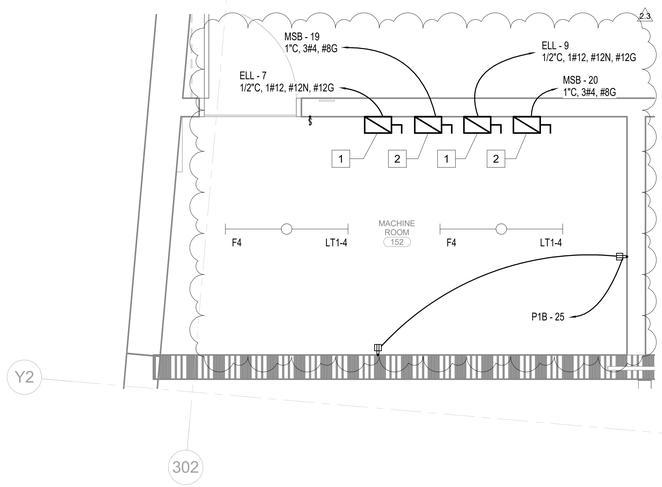
11/17/2017 4:30:25 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

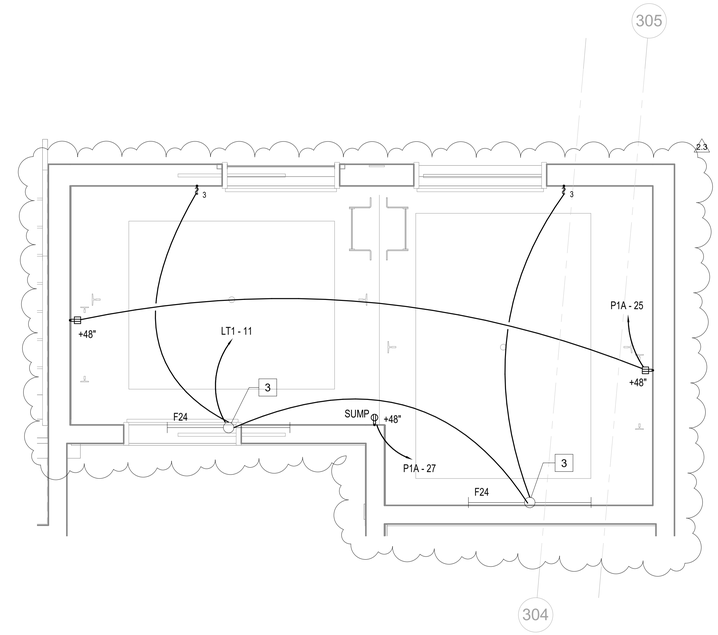
SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V, 1PH, 20A DISCONNECT FOR ELEVATOR CAB POWER.
2	PROVIDE 480V, 100A, 3PH, DISCONNECT FOR ELEVATOR CONTROLLER. VERIFY FUSE SIZE WITH MANUFACTURER RECOMMENDATION PRIOR TO ROUGH-IN.
3	PROVIDE A FIXTURE EVER 10FT VERTICALLY UP THE HOISTWAY. MOUNT AN ADDITIONAL FIXTURE ON CEILING ON TOP OF THE HOISTWAY. LOWEST FIXTURE TO BE AT 24" AFF.

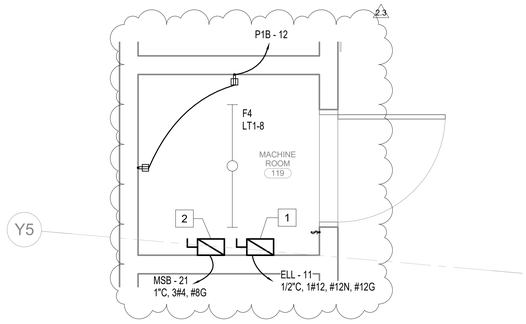
RFI 2-00030
Miscellaneous Electrical



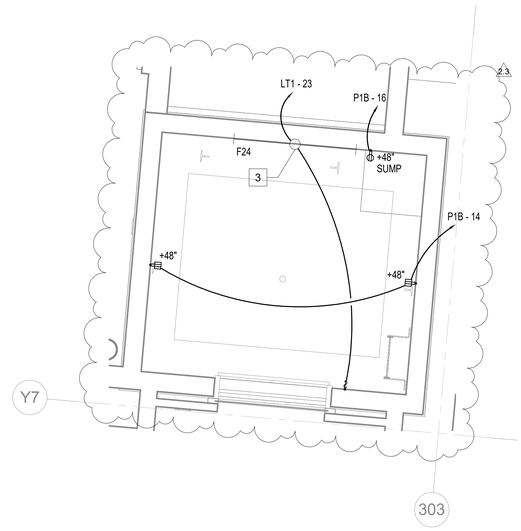
1 ENLARGED MACHINE ROOM 152
1/2" = 1'-0"



2 ENLARGED DOUBLE ELEVATOR PIT
1/2" = 1'-0"



3 ENLARGED MACHINE ROOM 119
1/2" = 1'-0"



4 ENLARGED SINGLE ELEVATOR PIT
1/2" = 1'-0"

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

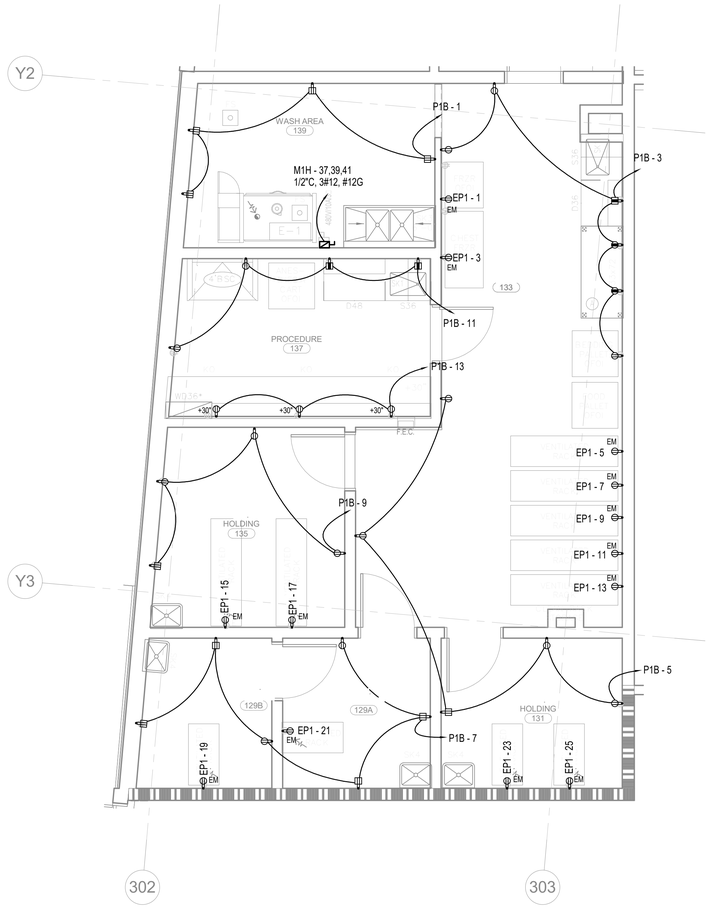
Sheet Title
ENLARGED ELECTRICAL PLANS

Sheet No.
2E-402

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

8/7/2017 3:57:54 PM



1 LEVEL 01 - ENLARGED LAB PLAN

1/2E-112 | 1/4" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

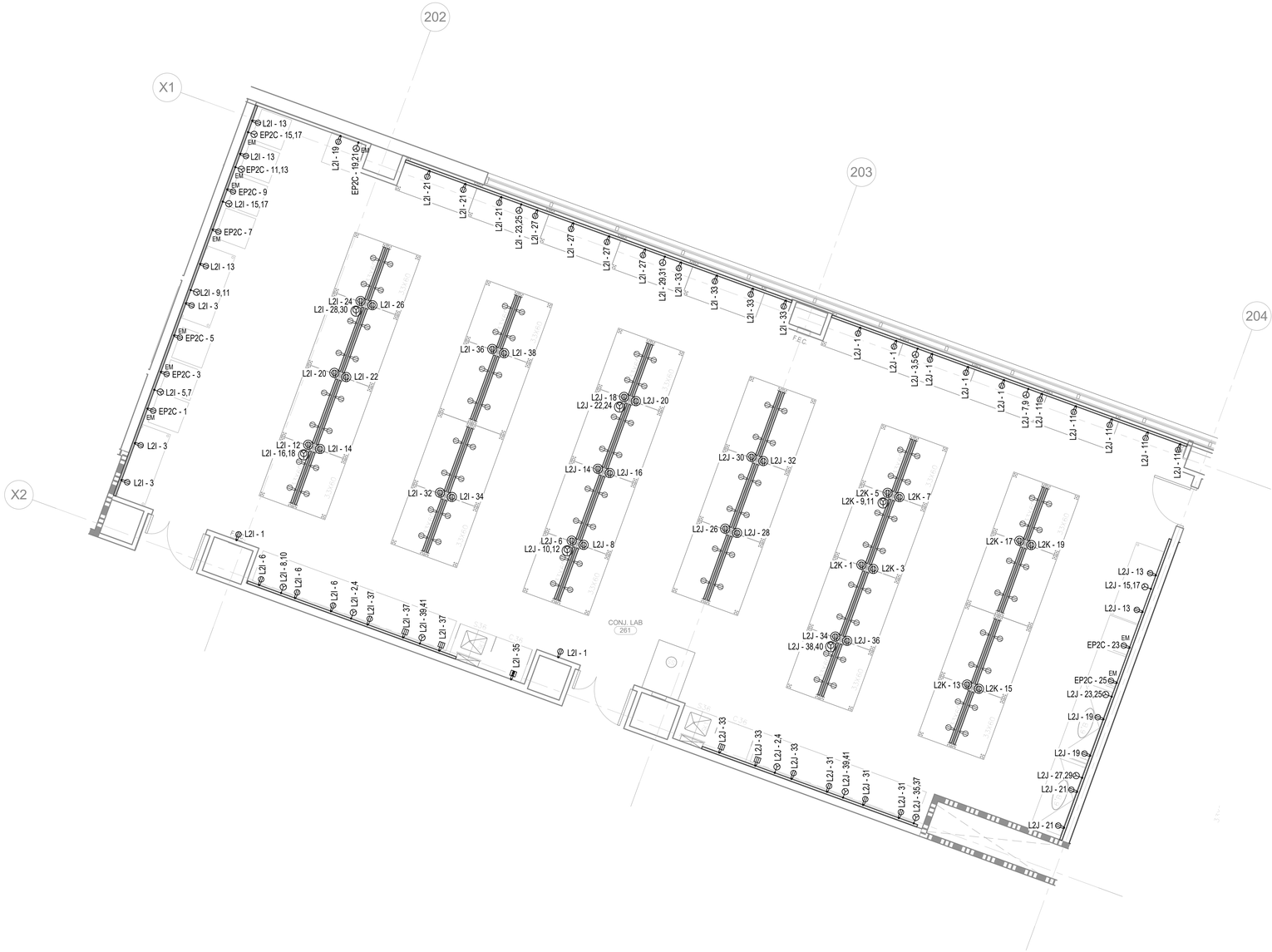
Sheet Title

FIRST LEVEL - ENLARGED LAB PLAN

Sheet No.

2E-411

8/7/2017 3:57:55 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



1 LEVEL 02 - ENLARGED LAB PLAN A

1/2E-122 | 1/4" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. WALL MOUNTED RACEWAY TO BE DUAL CHANNEL LEGRAND AL4400 OR EQUAL, MOUNTED AT 48" AFF, TO TOP OF RACEWAY UNO. PROVIDE SPARE 1" CONDUIT AT MIDDLE OF RACEWAY LOCATED ON WALL, BACK TO ELECTRICAL PANEL FEEDING RACEWAY.
5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

SECOND LEVEL - ENLARGED LAB PLAN A

Sheet No.

2E-421

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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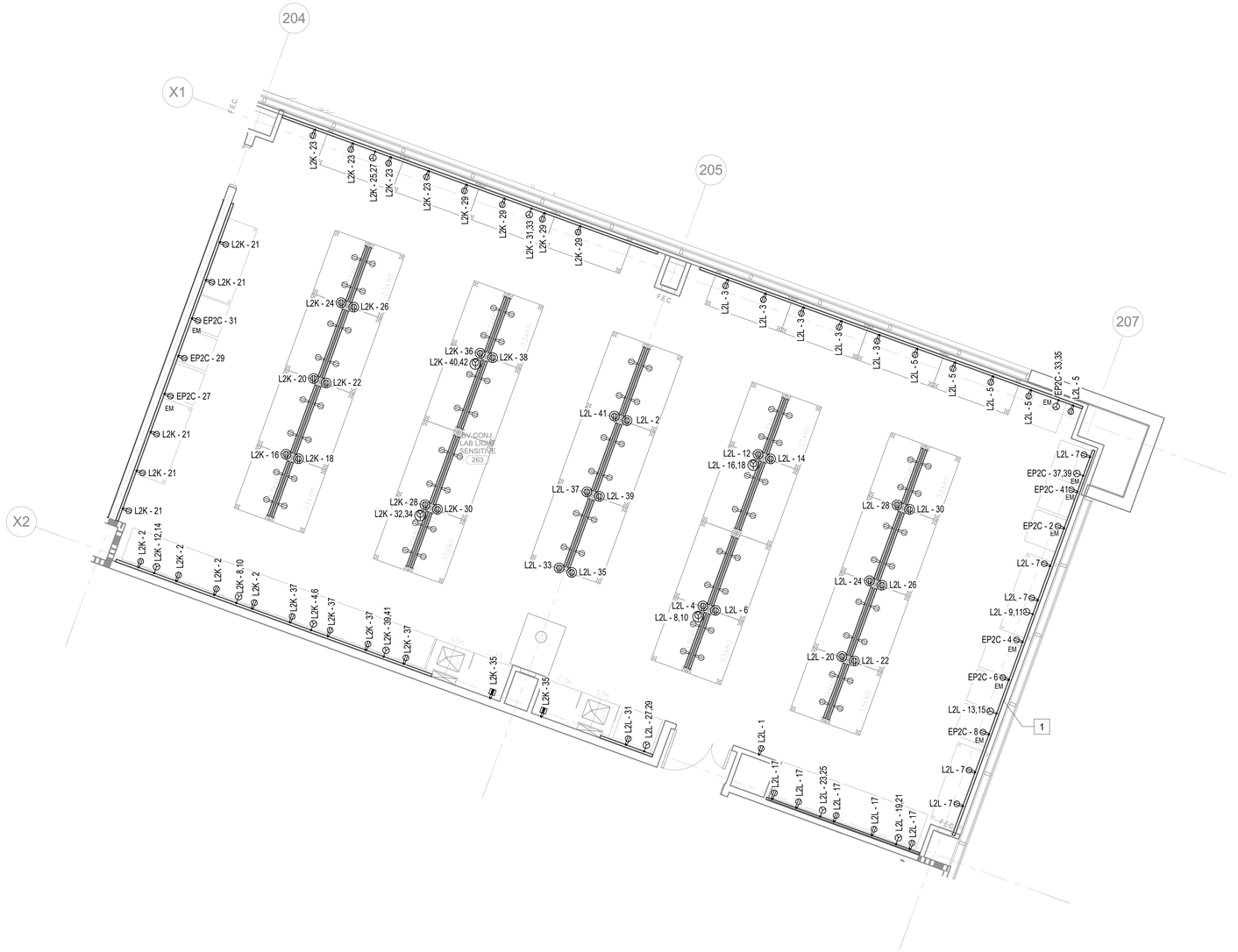


1 LEVEL 02 - ENLARGED LAB PLAN B

1/2E-122 | 1/4" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. WALL MOUNTED RACEWAY TO BE DUAL CHANNEL LEGRAND AL4400 OR EQUAL, MOUNTED AT 48" AFF, TO TOP OF RACEWAY UNO. PROVIDE SPARE 1" CONDUIT AT MIDDLE OF RACEWAY LOCATED ON WALL, BACK TO ELECTRICAL PANEL FEEDING RACEWAY.
5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	RACEWAY TO BE MOUNTED +18" AFF.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

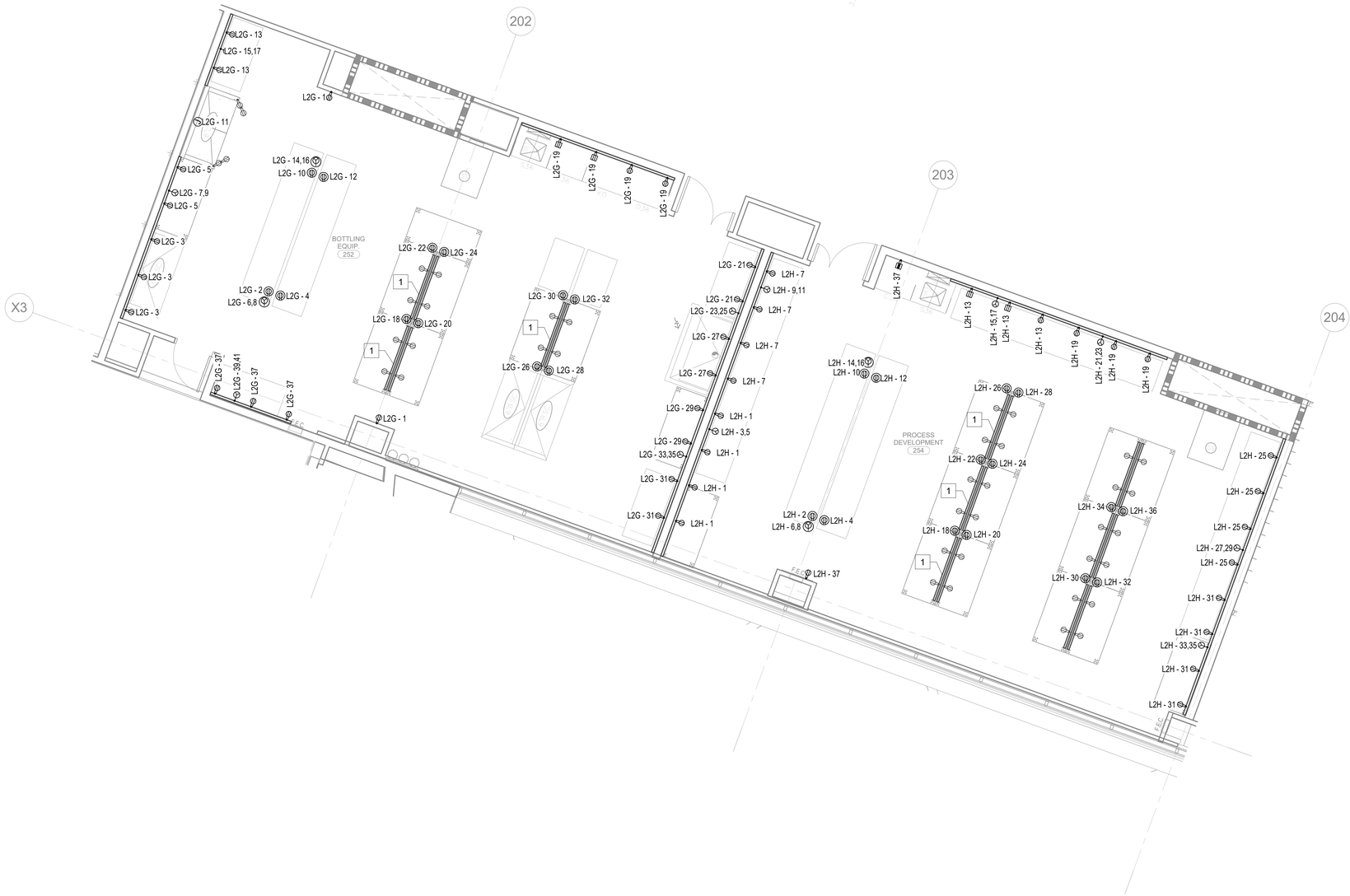
SECOND LEVEL - ENLARGED LAB PLAN B

Sheet No.

2E-422

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

8/7/2017 3:57:58 PM


202
203
204
X3
BOTTLING EQUIP. 252
PROCESS DEVELOPMENT 254
L2G - 13
L2G - 15,17
L2G - 13
L2G - 10
L2G - 11
L2G - 5
L2G - 7,9
L2G - 5
L2G - 3
L2G - 3
L2G - 3
L2G - 14,16
L2G - 10
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L2G - 37
L2G - 39,41
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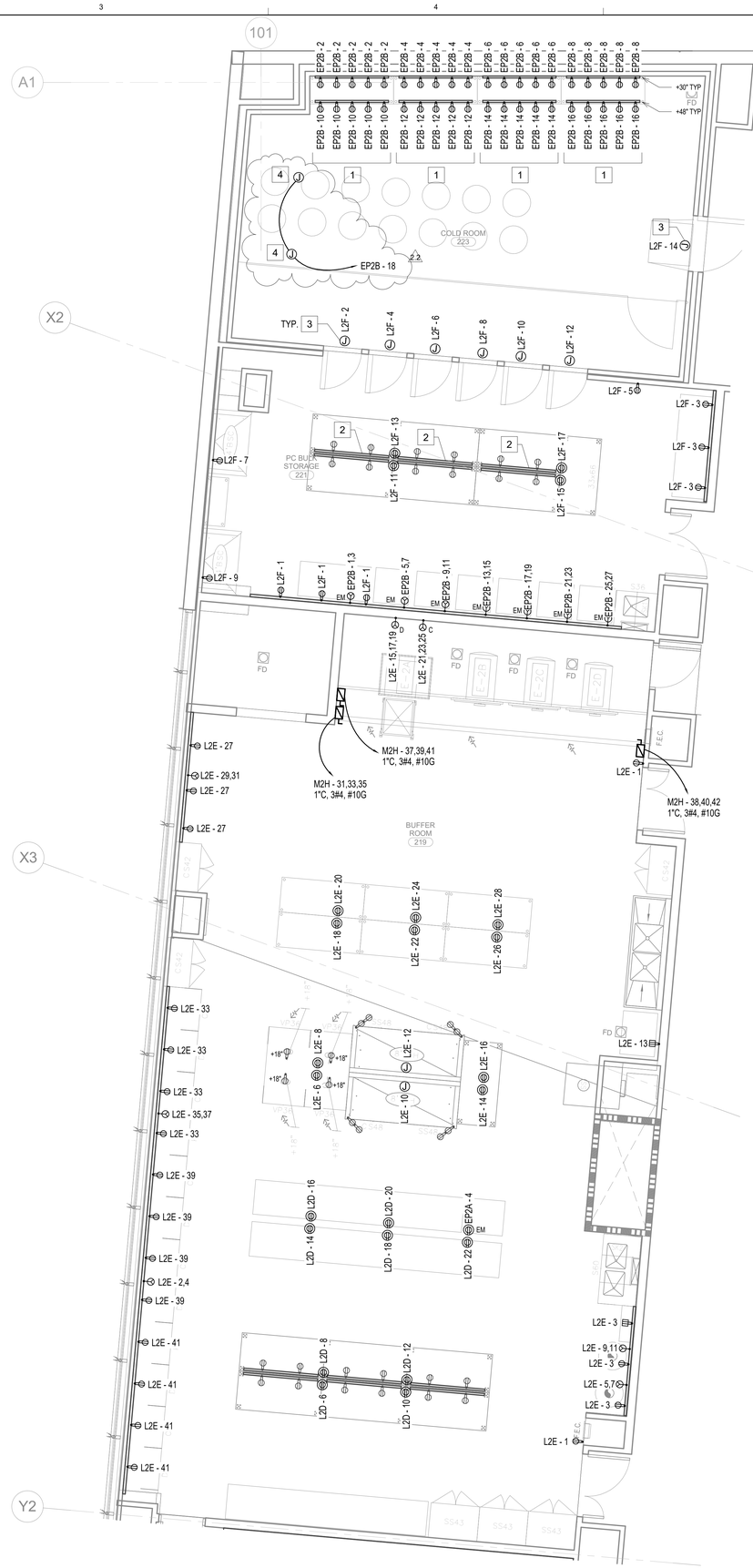


SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. WALL MOUNTED RACEWAY TO BE DUAL CHANNEL LEGRAND AL4400 OR EQUAL, MOUNTED AT 48" AFF, TO TOP OF RACEWAY UNO. PROVIDE SPARE 1" CONDUIT AT MIDDLE OF RACEWAY LOCATED ON WALL, BACK TO ELECTRICAL PANEL FEEDING RACEWAY.
5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.
6. SEE SHEET 2E-001 FOR SPECIAL RECEPTACLE TYPE DESIGNATIONS AND WIRE CALLOUTS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE (2) SINGLE CHANNEL PREASSEMBLED RACEWAYS PER RACK.
2	PROVIDE DEDICATED 120V CIRCUIT TO EACH SINGLE CHANNEL RACEWAY MOUNTED ON BENCH.
3	PROVIDE 120V POWER FOR DOOR FRAME AND WINDOW HEATERS.
4	PROVIDE 120V, 1PH POWER FOR COLD ROOM EVAPORATOR. COORDINATE LOCATION AND REQUIREMENTS WITH COLD ROOM MANUFACTURER PRIOR TO ROUGH-IN.

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title
SECOND LEVEL - ENLARGED LAB PLAN D

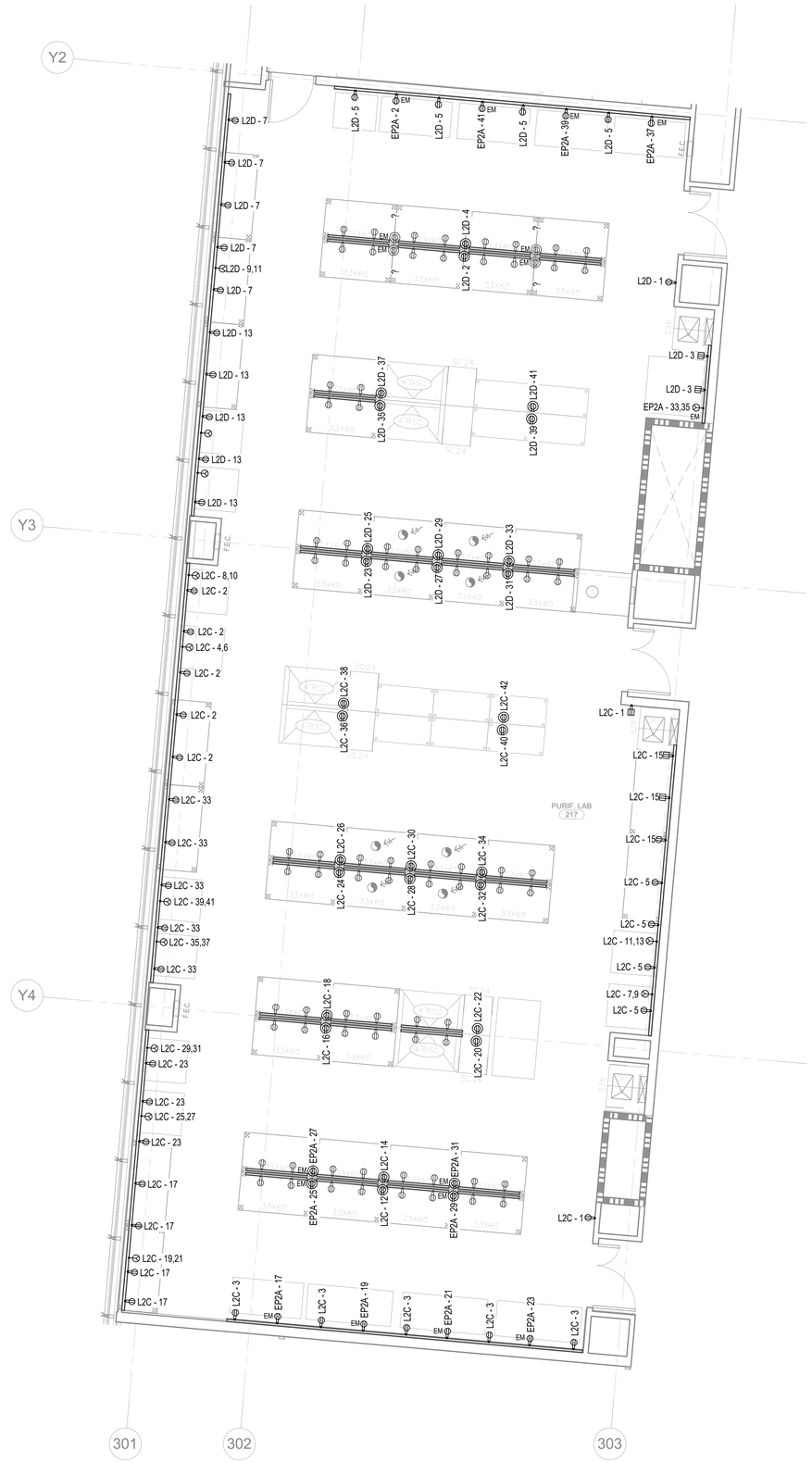
Sheet No.
2E-424

1	LEVEL 02 - ENLARGED LAB PLAN D
1/2E-122	1/4" = 1'-0"

NORTH

10/2/2017 10:40:33 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. WALL MOUNTED RACEWAY TO BE DUAL CHANNEL LEGRAND AL4400 OR EQUAL, MOUNTED AT 48" AFF, TO TOP OF RACEWAY UNO. PROVIDE SPARE 1" CONDUIT AT MIDDLE OF RACEWAY LOCATED ON WALL, BACK TO ELECTRICAL PANEL FEEDING RACEWAY.
5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

NORTH

1 **LEVEL 02 - ENLARGED LAB PLAN E**

1/2E-122 | 1/4" = 1'-0"

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

SECOND LEVEL - ENLARGED LAB PLAN E

Sheet No.

2E-425

8/7/2017 3:58:04 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
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5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE DEDICATED 120V CIRCUIT TO EACH SINGLE CHANNEL RACEWAY MOUNTED ON BENCH.

1 **LEVEL 02 - ENLARGED LAB PLAN F**

1/2E-122 | 1/4" = 1'-0"

NORTH

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

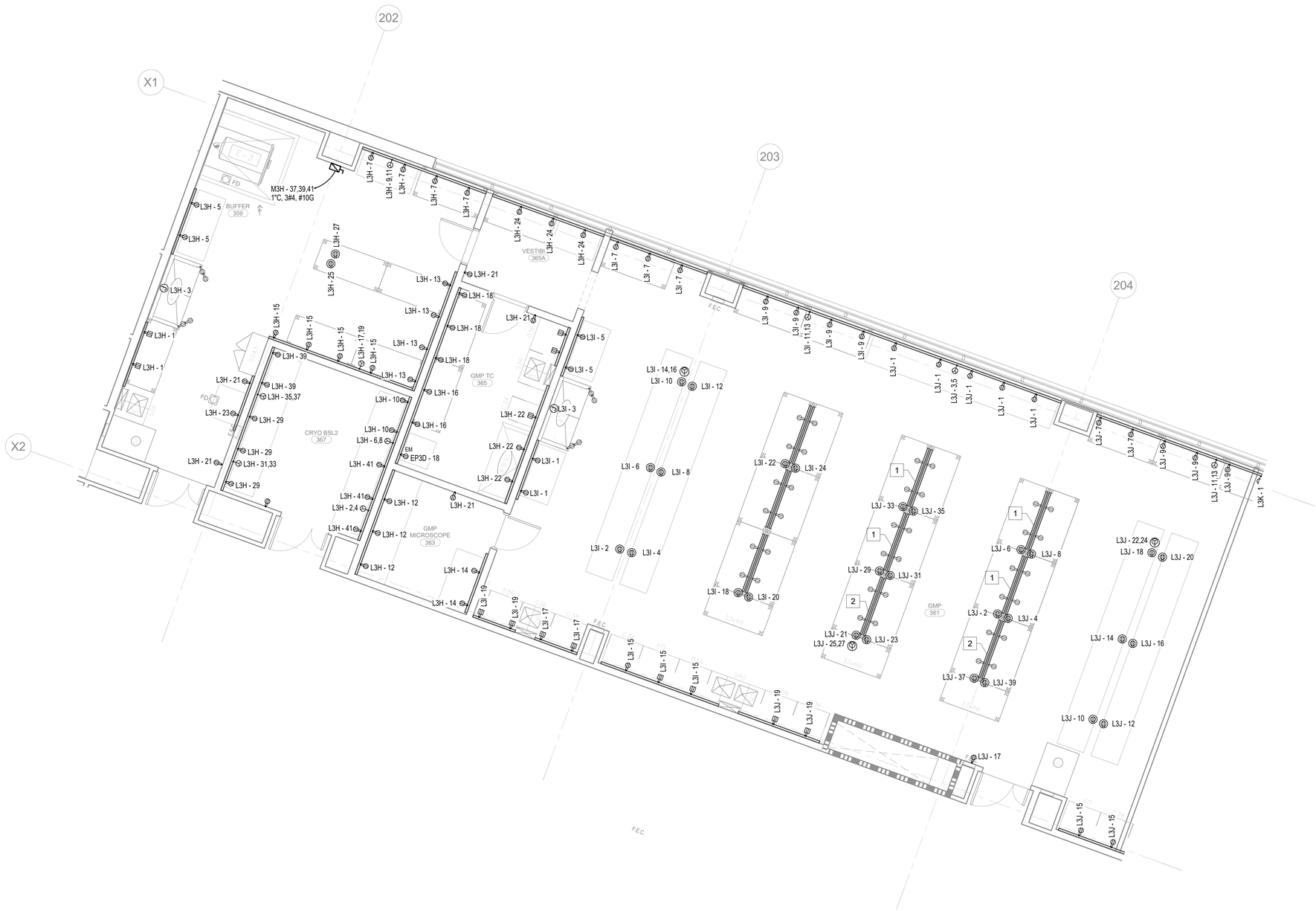
SECOND LEVEL - ENLARGED LAB PLAN F

Sheet No.

2E-426

8/7/2017 3:56:06 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

8/7/2017 3:58:08 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 LEVEL 03 - ENLARGED LAB PLAN A

1/2E-132 1/4" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. WALL MOUNTED RACEWAY TO BE DUAL CHANNEL LEGRAND AL4400 OR EQUAL, MOUNTED AT 48" AFF, TO TOP OF RACEWAY UNO. PROVIDE SPARE 1" CONDUIT AT MIDDLE OF RACEWAY LOCATED ON WALL, BACK TO ELECTRICAL PANEL FEEDING RACEWAY.
5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	
2	PROVIDE DEDICATED 120V CIRCUIT TO EACH SINGLE CHANNEL RACEWAY MOUNTED ON BENCH.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

THRID LEVEL - ENLARGED LAB PLAN A

Sheet No.

2E-431

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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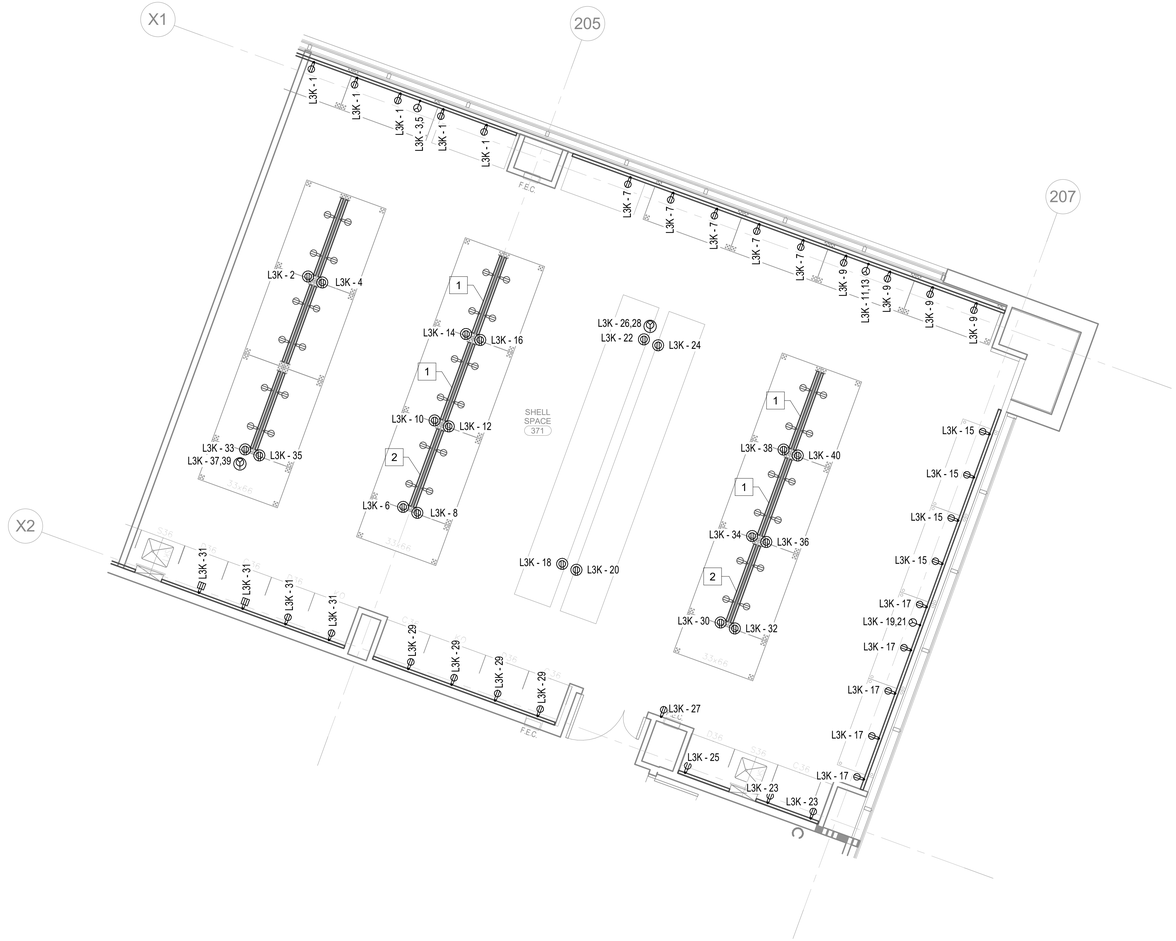


1 LEVEL 03 - ENLARGED LAB PLAN B

1/2E-132 | 1/4" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. WALL MOUNTED RACEWAY TO BE DUAL CHANNEL LEGRAND AL4400 OR EQUAL, MOUNTED AT 48" AFF, TO TOP OF RACEWAY UNO. PROVIDE SPARE 1" CONDUIT AT MIDDLE OF RACEWAY LOCATED ON WALL, BACK TO ELECTRICAL PANEL FEEDING RACEWAY.
5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	
2	PROVIDE DEDICATED 120V CIRCUIT TO EACH SINGLE CHANNEL RACEWAY MOUNTED ON BENCH.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

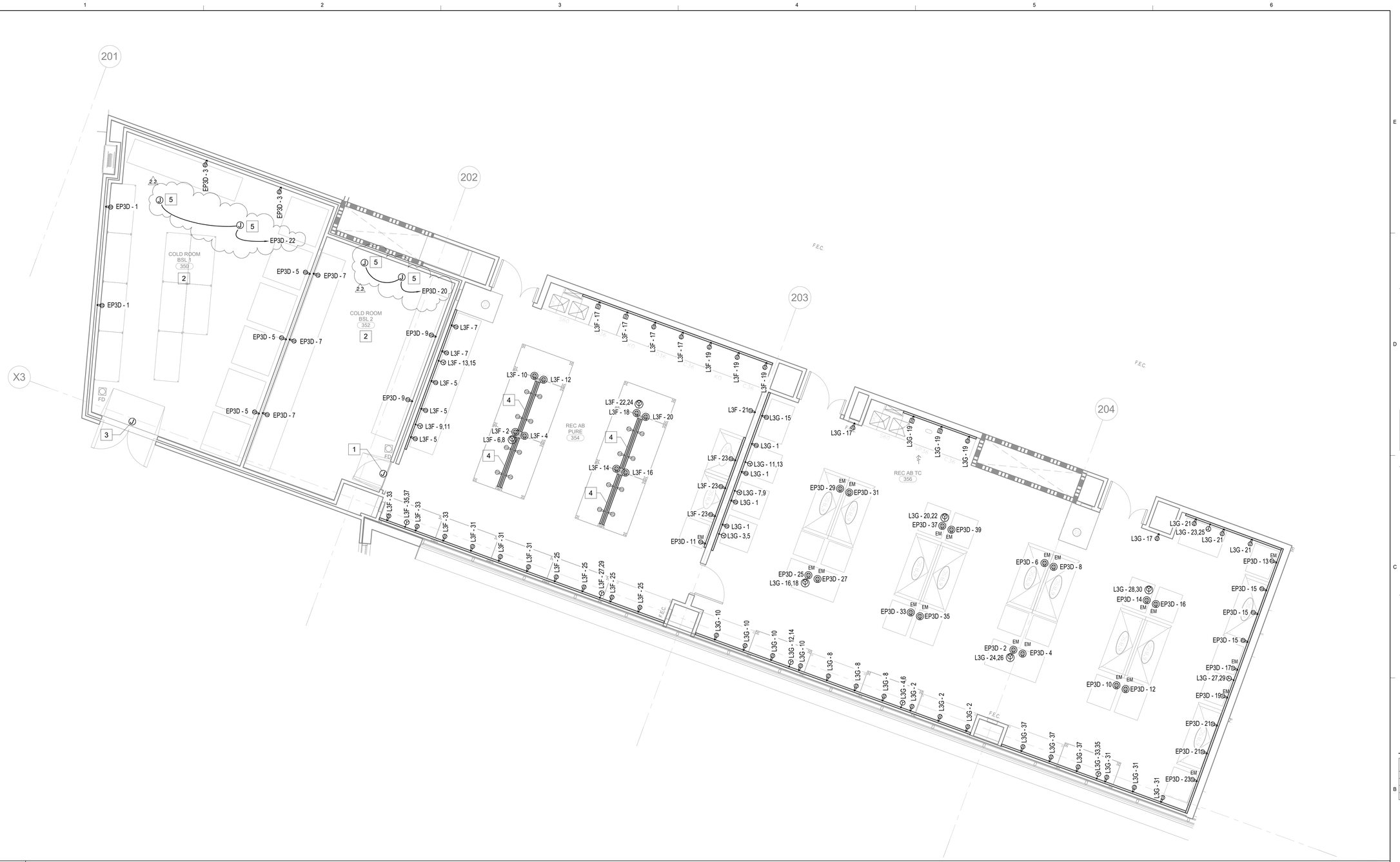
Sheet Title

THRID LEVEL - ENLARGED LAB PLAN B

Sheet No.

2E-432

10/2/2017 10:40:45 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 LEVEL 03 - ENLARGED LAB PLAN C

1/2E-132 | 1/4" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. WALL MOUNTED RACEWAY TO BE DUAL CHANNEL LEGRAND AL4400 OR EQUAL, MOUNTED AT 48" AFF, TO TOP OF RACEWAY UNO. PROVIDE SPARE 1" CONDUIT AT MIDDLE OF RACEWAY LOCATED ON WALL, BACK TO ELECTRICAL PANEL FEEDING RACEWAY.
5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.
6. SEE SHEET 2E-001 FOR SPECIAL RECEPTACLE TYPE DESIGNATIONS AND WIRE CALLOUTS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V POWER FOR COLD ROOM. COORDINATE LOCATION AND REQUIREMENTS WITH COLD ROOM MANUFACTURER PRIOR TO ROUGH-IN.
2	RECEPTACLES TO BE PROVIDED BY COLD ROOM MANUFACTURER.
3	PROVIDE 120V POWER FOR DOOR FRAME AND WINDOW HEATERS.
4	
5	PROVIDE 120V, 1PH POWER FOR COLD ROOM EVAPORATOR. COORDINATE LOCATION AND REQUIREMENTS WITH COLD ROOM MANUFACTURER PRIOR TO ROUGH-IN.

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title

THRID LEVEL - ENLARGED LAB PLAN C

Sheet No.

2E-433

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
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5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE DEDICATED 120V CIRCUIT TO EACH SINGLE CHANNEL RACEWAY MOUNTED ON BENCH.

1 **LEVEL 03 - ENLARGED LAB PLAN D**

1/2E-132 | 1/4" = 1'-0"

NORTH

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

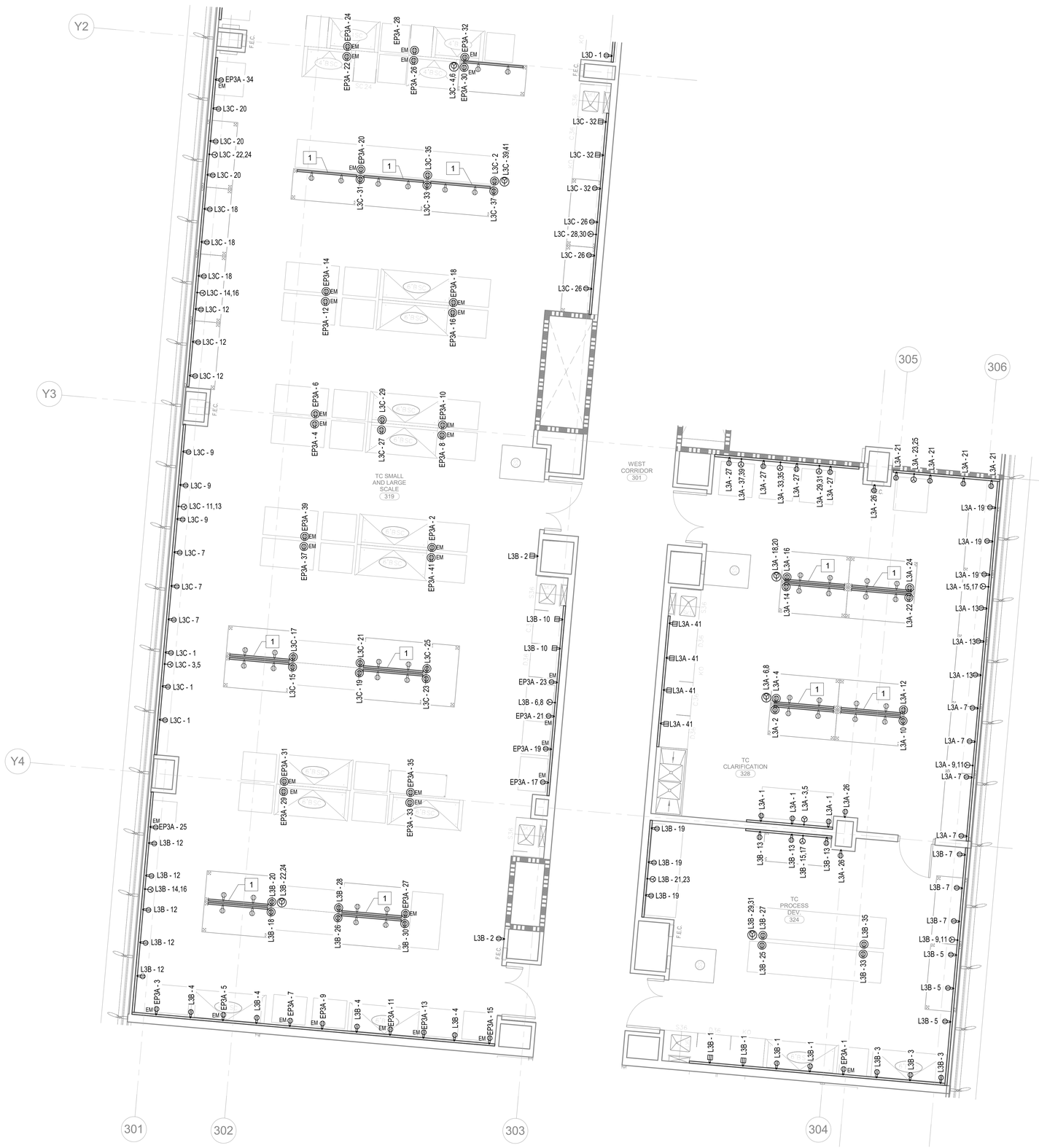
Sheet Title

THRID LEVEL - ENLARGED LAB PLAN D

Sheet No.

2E-434

8/7/2017 3:58:14 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



SHEET GENERAL NOTES

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5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE DEDICATED 120V CIRCUIT TO EACH SINGLE CHANNEL RACEWAY MOUNTED ON BENCH.

NORTH

1 **LEVEL 03 - ENLARGED LAB PLAN E**

1/2E-132 | 1/4" = 1'-0"

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

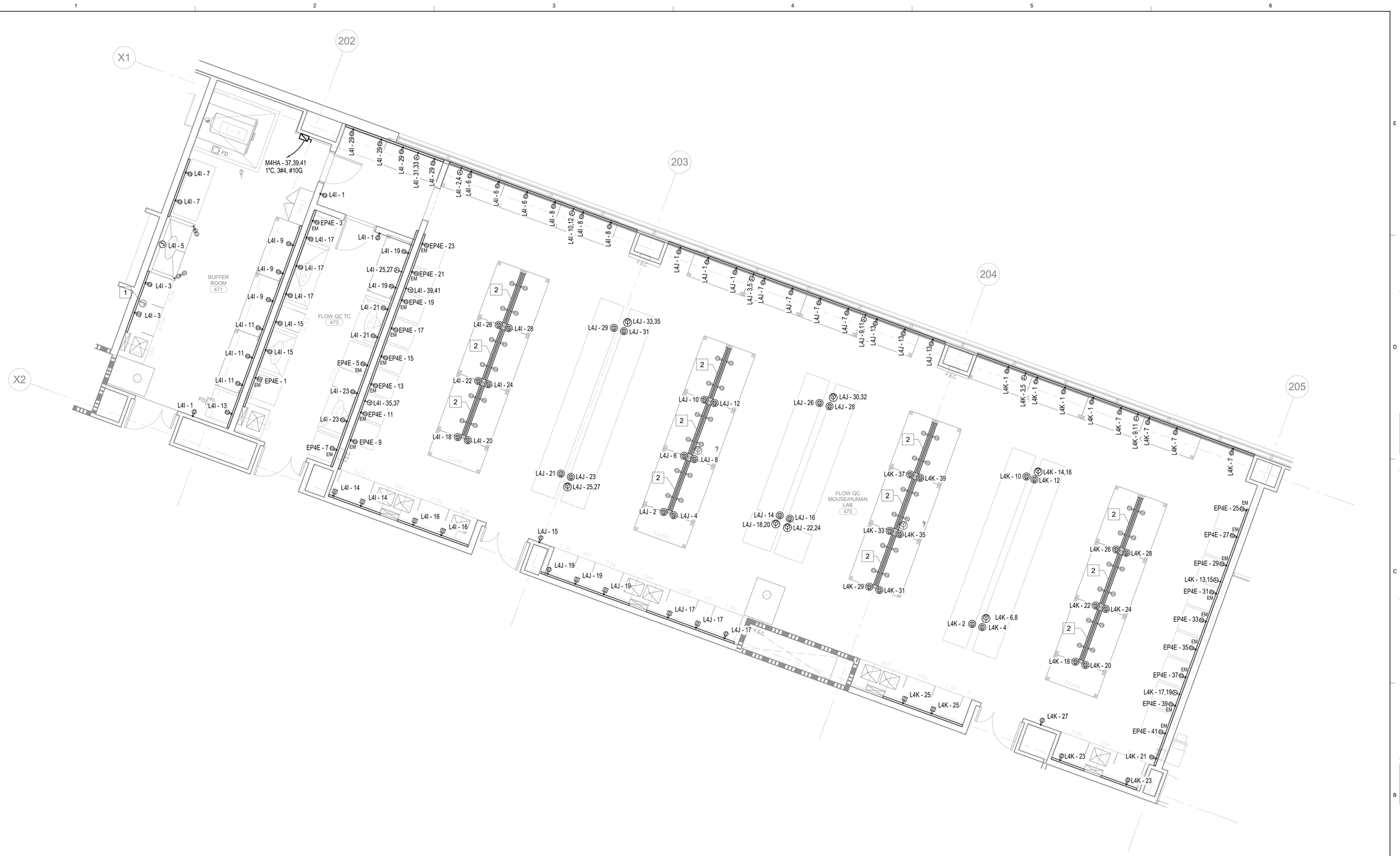
Sheet Title

THRID LEVEL - ENLARGED LAB PLAN E

Sheet No.

2E-435

8/7/2017 3:58:18 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



1 LEVEL 04 - ENLARGED LAB PLAN A

1/2E-142 1/4" = 1'-0"

NORTH

SHEET GENERAL NOTES

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5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE SPARE 1/2" CONDUIT WITH PULL STRING TO PANEL "L4I" FOR FUTURE GLASSWARE WASHER.
2	PROVIDE DEDICATED 120V CIRCUIT TO EACH SINGLE CHANNEL RACEWAY MOUNTED ON BENCH.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

FOURTH LEVEL - ENLARGED LAB PLAN A

Sheet No.

2E-441

8/7/2017 3:56:20 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

8/7/2017 3:58:22 PM
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1 LEVEL 04 - ENLARGED LAB PLAN B

1/2E-142 | 1/4" = 1'-0"

SHEET GENERAL NOTES

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3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
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5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE DEDICATED 120V CIRCUIT TO EACH SINGLE CHANNEL RACEWAY MOUNTED ON BENCH.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

FOURTH LEVEL - ENLARGED LAB PLAN B

Sheet No.

2E-442

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

8/7/2017 3:58:24 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 LEVEL 04 - ENLARGED LAB PLAN C

1/2E-142 1/4" = 1'-0"

NORTH

SHEET GENERAL NOTES

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2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
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5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V, 20A, 1PH POWER FOR AUTOMATIC SLIDING DOOR. COORDINATE LOCATION AND REQUIREMENTS WITH SLIDING DOOR MANUFACTURER PRIOR TO ROUGH-IN.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

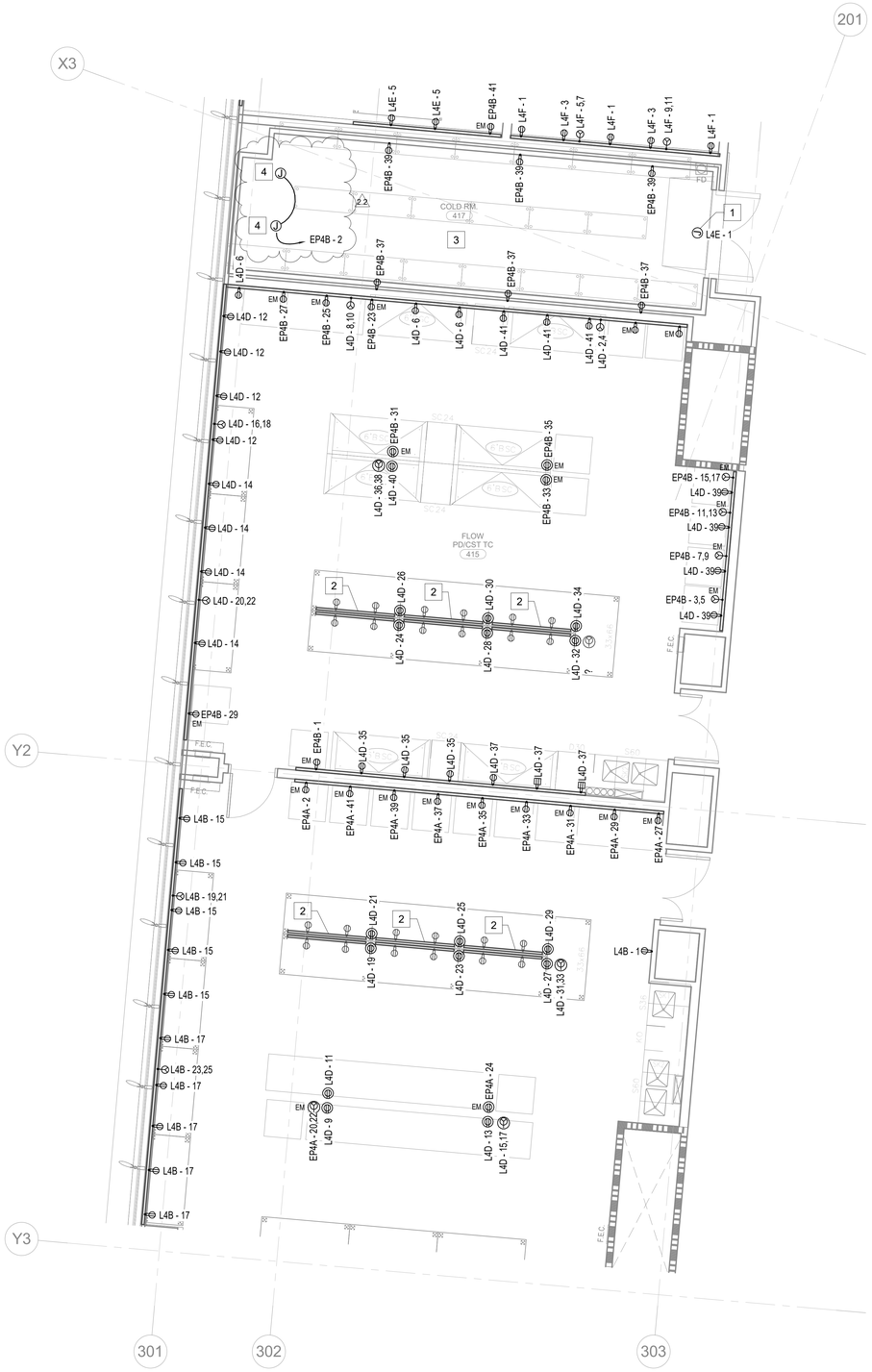
Sheet Title

FOURTH LEVEL - ENLARGED LAB PLAN C

Sheet No.

2E-443

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



SHEET GENERAL NOTES

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5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.
6. SEE SHEET 2E-001 FOR SPECIAL RECEPTACLE TYPE DESIGNATIONS AND WIRE CALLOUTS.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 120V POWER FOR DOOR FRAME AND WINDOW HEATERS.
2	PROVIDE DEDICATED 120V CIRCUIT TO EACH SINGLE CHANNEL RACEWAY MOUNTED ON BENCH.
3	RECEPTACLES TO BE PROVIDED BY COLD ROOM MANUFACTURER.
4	PROVIDE 120V, 1PH POWER FOR COLD ROOM EVAPORATOR. COORDINATE LOCATION AND REQUIREMENTS WITH COLD ROOM MANUFACTURER PRIOR TO ROUGH-IN.

1 **LEVEL 04 - ENLARGED LAB PLAN D**

1/2E-142 | 1/4" = 1'-0"

NORTH

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

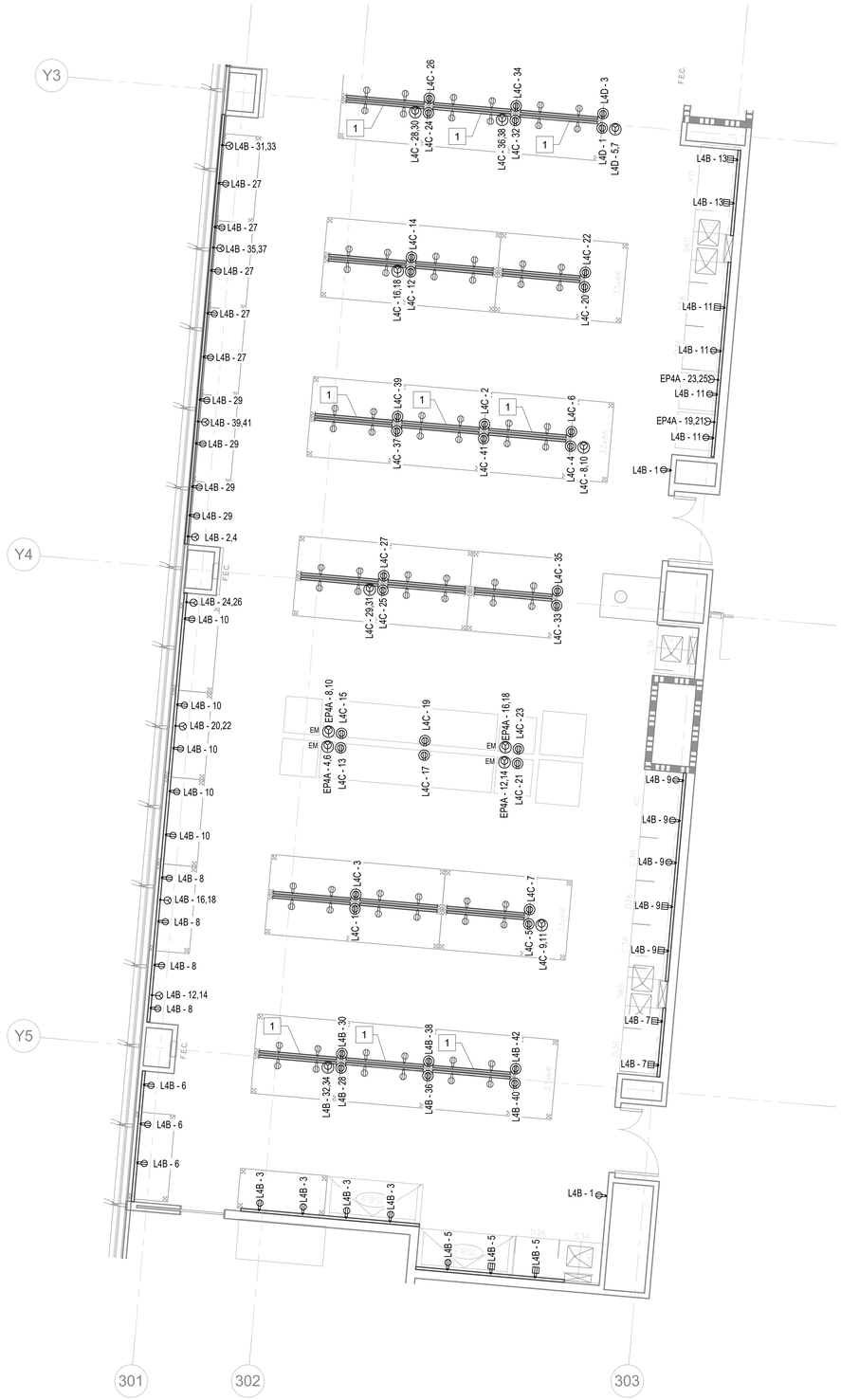
Sheet Title

FOURTH LEVEL - ENLARGED LAB PLAN D

Sheet No.

2E-444

10/2/2017 10:41:04 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



SHEET GENERAL NOTES

1. CONTRACTOR TO PROVIDE A WIRELESS DISTRIBUTED ANTENNA SYSTEM THROUGHT THE BUILDING. REFER TO SPECIFICATION SECTION 275319 FOR SYSTEM DESCRIPTION.
2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. WALL MOUNTED RACEWAY TO BE DUAL CHANNEL LEGRAND AL4400 OR EQUAL, MOUNTED AT 48" AFF, TO TOP OF RACEWAY UNO. PROVIDE SPARE 1" CONDUIT AT MIDDLE OF RACEWAY LOCATED ON WALL, BACK TO ELECTRICAL PANEL FEEDING RACEWAY.
5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE DEDICATED 120V CIRCUIT TO EACH SINGLE CHANNEL RACEWAY MOUNTED ON BENCH.

NORTH

1 **LEVEL 04 - ENLARGED LAB PLAN E**

1/2E-142 | 1/4" = 1'-0"

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

FOURTH LEVEL - ENLARGED LAB PLAN E

Sheet No.

2E-445

8/7/2017 3:58:29 PM
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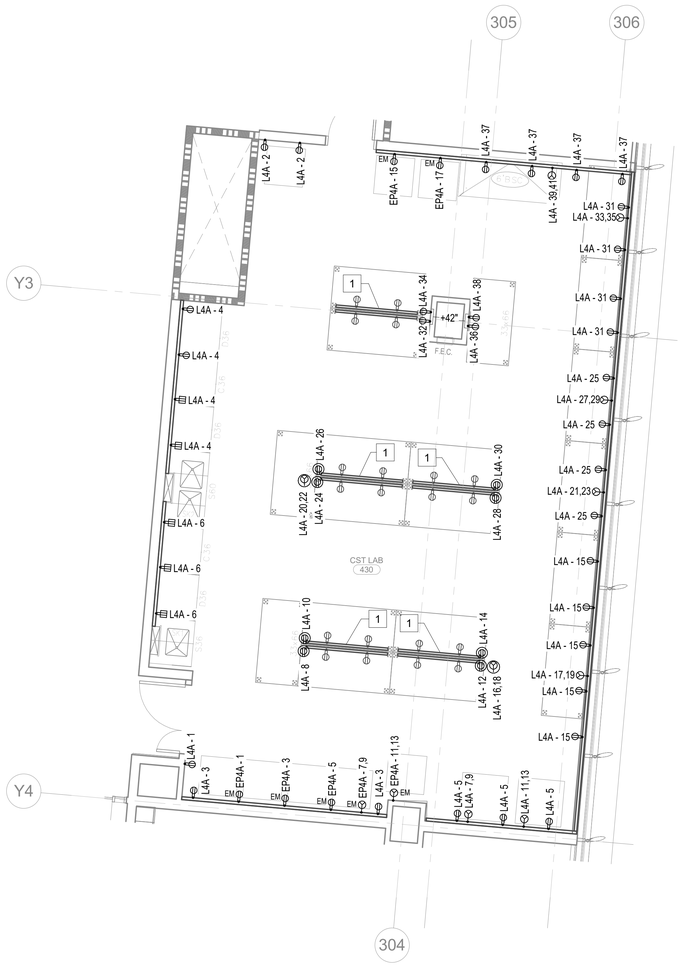

SHEET GENERAL NOTES

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2. PRIOR TO ROUGH-IN, COORDINATE CONDUIT AND PULL BOX LOCATIONS WITH MECHANICAL CONTRACTOR TO AVOID ANY PIPING, DUCTING, CONDUIT CONFLICT.
3. NO PULL BOX SHALL BE LOCATED IN CORRIDORS.
4. WALL MOUNTED RACEWAY TO BE DUAL CHANNEL LEGRAND AL4400 OR EQUAL, MOUNTED AT 48" AFF, TO TOP OF RACEWAY UNO. PROVIDE SPARE 1" CONDUIT AT MIDDLE OF RACEWAY LOCATED ON WALL, BACK TO ELECTRICAL PANEL FEEDING RACEWAY.
5. BENCH MOUNTED RACEWAY TO BE SINGLE CHANNEL LEGRAND AL3000 OR EQUAL, MOUNTED AT 43" AFF TO TOP OF RACEWAY.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE DEDICATED 120V CIRCUIT TO EACH SINGLE CHANNEL RACEWAY MOUNTED ON BENCH.

1 **LEVEL 04 - ENLARGED LAB PLAN F**

1/2E-142 | 1/4" = 1'-0"

NORTH

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

FOURTH LEVEL - ENLARGED LAB PLAN F

Sheet No.

2E-446

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

11/17/2017 4:31:10 PM
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ROOF LEVEL 4 — LEVEL 4 LEVEL 3 — LEVEL 3 LEVEL 2 — LEVEL 2 LEVEL 1

PANEL LT4 — PANEL M4L — T-M4 45kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #6 TO BLD STEEL — PANEL M4HC — PANEL M4HB — PANEL M4HA — PANEL M4H

T-DP4L 225kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #3/0 TO BLD STEEL — PANEL DP4L — PANEL L4A — PANEL L4B — PANEL L4C — PANEL L4D — PANEL L4E — PANEL L4F — PANEL L4G — PANEL L4H — PANEL L4I — PANEL L4J — PANEL L4K

PANEL P4A — PANEL P4B — PANEL P4C

PANEL EPM4L — PANEL EPM4LA — PANEL EPM4H

PANEL EP4A — PANEL EP4B — PANEL EP4C — PANEL EP4D — PANEL EP4E

PANEL ELH4 — DL — PANEL ELH3 — DL — PANEL ELH2

DL — PANEL LT3

T-DP3L 225kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #3/0 TO BLD STEEL — PANEL DP3L — PANEL L3A — PANEL L3B — PANEL L3C — PANEL L3D — PANEL L3E — PANEL L3F — PANEL L3G — PANEL L3H — PANEL L3I — PANEL L3J — PANEL L3K

T-DP3P 225kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #3/0 TO BLD STEEL — PANEL DP3P — PANEL P3A — PANEL P3B — PANEL P3C

PANEL ET3 — PANEL EP3A — PANEL EP3B — PANEL EP3C — PANEL EP3D

PANEL M3L — PANEL M3H

DL — PANEL LT2

T-M2 75kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #2 TO BLD STEEL — PANEL M2L — PANEL M2H

T-DP2L 225kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #3/0 TO BLD STEEL — PANEL DP2L — PANEL L2A — PANEL L2B — PANEL L2C — PANEL L2D — PANEL L2E — PANEL L2F — PANEL L2G — PANEL L2H — PANEL L2I — PANEL L2J — PANEL L2K — PANEL L2L

PANEL P2A — PANEL P2B — PANEL P2C

PANEL EP2A — PANEL EP2B — PANEL EP2C

MEZZANINE

T-DP1P 300kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #3/0 TO BLD STEEL — PANEL DP1P — PANEL P1A — PANEL P1B — PANEL P1C — PANEL P1D — PANEL P1E — PANEL PM

PANEL EP1 — PANEL ET1 — PANEL EPDP

T-EP 225kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #3/0 TO BLD STEEL — PANEL EPM — PANEL EPH

T-EPM 112.5kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #1/0 TO BLD STEEL — 2,3

ATS-EP 1600A 480/277V 3PH, 4W

T-EPW 75kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #2 TO BLD STEEL — PANEL EPLW

PANEL EPHWM — PANEL EPHWMA — PANEL EPHWL — WAREHOUSE

LIFE SAFETY LOAD

T-EL 30kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #6 TO BLD STEEL — PANEL ELL — PANEL ELH1

ATS-EL 60A 480/277V 3PH, 4W

PANEL LT1 — LCP

T-M1 75kVA 480-208/120V 3PH, 4W MIN %Z=3.5% — #2 TO BLD STEEL — PANEL M1L — PANEL M1H

LOCATED ON ROOF — AC-1 — DOAS-1 — DOAS-2 — ELEV — ELEV — ELEV — 2,3

TO PARKING STRUCTURE — TO BUILDING 8928 — 1 TO BUILDING 8959 — TO PARKING STRUCTURE

SWITCH BOARD "MSB" — SPD — M — 4000 3 GFP — 4000A, 480/277V, 3PH, 4W, BRACED FOR 100kA

100 3 — 150 3 — 400 3 — 400 3 — 200 3 — 800 3 — 350 3 — 350 3 — 350 3 — 350 3 — 450 3 — 60 3 — 125 3 — 125 3 — 125 3 — 3 ST 100 3 — 3 ST 100 3 — 3 ST 100 3 — 1600 3 — 800 3 — 400 3

SDG&E TRANSFORMER — TO UTILITY

1600 3 — 60 3 — 350 3 — 60 3 — 350 3 — 60 3 — 60 3 — 2,3 — 2000A, 480/277V, 3PH, 4W, BRACED FOR 65kA — 2,3 — GENERATOR SWITCHBOARD "GSB"

G1 — 2 — 2,3 — 2000 3 GFP

SHEET KEYED NOTES

1. BACKFEED EXISTING ATS'S AT BUILDING 8959 AND REMOVE EXISTING GENERATOR.
2. PROVIDE 1250kW / 1563kVA, 480Y/277V, 3PH,4W GENERATOR WITH 36 HOUR FULL LOAD CAPACITY FUEL TANK.
3. INTERFACE ELEVATOR SHUNT TRIP WITH FIRE SPRINKLER SYSTEM.

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title
SINGLE LINE DIAGRAM

Sheet No.
2E-501

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

VOLTAGE DROP SCHEDULE

DEVICE	FEEDER VOLTAGE DROP	FEEDER WIRE SIZE	BRANCH CIRCUIT MAX VOLTAGE DROP	BRANCH CIRCUIT CIRCUIT	BRANCH CIRCUIT LENGTH	BRANCH CIRCUIT WIRE SIZE
G2	0.00%	(3)600kcmil				
GSB	0.00%	(5)600kcmil				
MSB	0.18%	(10)600kcmil	1.38%	21	269'	#4
ATS-EL	0.31%	#4				
ELH1	0.32%	#1	1.27%	10	304'	#12
ELH2	0.54%	#4	1.45%	2	118'	#12
ELH3	0.57%	#4	1.04%	2	116'	#12
ELH4	0.59%	#4	1.09%	2	111'	#12
T-EL	0.33%	#6				
ELL	0.02%	#1	5.22%	11	261'	#12
ATS-EP	0.35%	(4)600kcmil				
EPH	0.38%	(4)600kcmil				
EPHWL	0.39%	#1	1.94%	3	173'	#10
EPHWM	0.39%	(2)350kcmil	0.20%	1,3,5	45'	3/0
EPHWMA	0.40%	3/0				
EPM4H	0.96%	(2)350kcmil	0.94%	13,15,17	161'	#4
T-EP	0.43%	500kcmil				
EPDP	0.15%	(3)300kcmil				
EP1	0.50%	3/0	2.90%	36,38	160'	#12
EP2A	0.53%	3/0	0.99%	4	71'	#12
EP2B	0.85%	3/0	1.53%	2	61'	#12
EP2C	0.43%	3/0	1.93%	37,39	120'	#10
EP3A	1.07%	3/0	1.66%	29	60'	#12
EP3B	0.80%	3/0	2.19%	34,36	82'	#12
EP3C	0.93%	3/0	0.88%	29,31	33'	#12
EP3D	0.61%	3/0	2.34%	35	84'	#12
EP4A	1.21%	3/0	1.90%	20,22	63'	#12
EP4B	0.65%	3/0	1.39%	2	70'	#12
EP4C	1.74%	3/0	0.95%	29,31	33'	#6
EP4D	0.51%	3/0	1.89%	12,14	105'	#10
EP4E	0.36%	3/0	0.99%	41	89'	#12
ET1	0.17%	#1	0.13%	1	13'	#12
ET3	0.29%	#1	0.54%	5	36'	#12
T-EPM	0.54%	2/0				
EPM	0.22%	600kcmil	1.88%	7	61'	#10
EPM4L	2.14%	4/0	2.73%	5,7	134'	#8
EPM4LA	1.92%	250kcmil	3.04%	25	106'	#8
T-EPW	0.38%	1/0				
EPLW	0.00%	4/0	1.17%	5	84'	#12
LT1	0.44%	1/0	1.97%	8	274'	#12
LT2	1.32%	#1	2.66%	1	193'	#12
LT3	1.43%	#1	2.86%	1	175'	#12
LT4	1.50%	#1	2.45%	2	160'	#12
M1H	0.22%	600kcmil	1.36%	19,21,23	189'	#12
T-M1	0.24%	1/0				
M1L	0.06%	3/0	3.14%	14,16	258'	#8
M2H	0.45%	600kcmil	0.56%	37,39,41	113'	#4
T-M2	0.49%	1/0				
M2L	0.09%	4/0	3.06%	25,27	102'	#12
M3L	0.31%	#1	3.00%	18,20	102'	#12
M3H	0.43%	3/0	0.71%	37,39,41	144'	#4
M4H	1.09%	(3)300kcmil	1.40%	31,33,35	172'	#8
M4HA	1.13%	3/0	1.47%	8,10,12	185'	#12
M4HB	1.19%	3/0	1.52%	1,3,5	173'	#12
M4HC	1.20%	3/0	1.19%	25,27,29	136'	#12
T-M4	1.15%	#4				
M4L	0.12%	1/0	2.60%	14,16	159'	#10
T-DP1P	0.24%	(2)4/0				
DP1P	0.04%	(3)400kcmil				

VOLTAGE DROP SCHEDULE

DEVICE	FEEDER VOLTAGE DROP	FEEDER WIRE SIZE	BRANCH CIRCUIT MAX VOLTAGE DROP	BRANCH CIRCUIT CIRCUIT	BRANCH CIRCUIT LENGTH	BRANCH CIRCUIT WIRE SIZE
P1A	0.08%	#1	2.88%	12	240'	#10
P1B	0.66%	1/0	3.01%	10	120'	#12
P1C	0.72%	1/0	2.60%	23	130'	#12
P1D	1.00%	3/0	2.48%	22	57'	#12
P1E	0.21%	#1	1.90%	33	54'	#12
P2A	0.78%	1/0	2.75%	12	124'	#12
P2B	0.37%	1/0	2.09%	4	116'	#10
P2C	0.55%	1/0	3.08%	21	154'	#12
PM	0.08%	#1	2.69%	5	90'	#12
T-DP2L	0.65%	500kcmil				
DP2L	0.09%	(3)300kcmil				
L2A	0.21%	3/0	2.08%	37	83'	#12
L2B	0.37%	3/0	1.09%	4,6	28'	#12
L2C	0.61%	3/0	2.97%	8,10	77'	#12
L2D	0.18%	3/0	2.16%	19,21	56'	#12
L2E	0.36%	3/0	1.29%	21,23,25	80'	#8
L2F	0.21%	3/0	0.59%	9	42'	#12
L2G	0.41%	3/0	0.81%	37	54'	#12
L2H	0.40%	3/0	1.27%	31	64'	#12
L2I	0.38%	3/0	1.32%	33	66'	#12
L2J	0.40%	3/0	2.04%	11	82'	#12
L2K	0.49%	3/0	1.55%	29	78'	#12
L2L	0.57%	3/0	1.22%	5	49'	#12
T-DP3L	0.49%	500kcmil				
DP3L	0.08%	(3)300kcmil				
L3A	0.24%	3/0	1.03%	23,25	27'	#12
L3B	0.30%	3/0	0.98%	12	39'	#12
L3C	0.26%	3/0	3.00%	8,10	67'	#12
L3D	0.26%	3/0	0.97%	24	49'	#12
L3E	0.33%	3/0	0.91%	32	60'	#12
L3F	0.30%	3/0	0.73%	25	37'	#12
L3G	0.49%	3/0	1.02%	31	68'	#12
L3H	0.37%	3/0	0.98%	7	49'	#12
L3I	0.33%	3/0	1.13%	7	75'	#12
L3J	0.44%	3/0	1.09%	1	44'	#12
L3K	0.66%	3/0	1.45%	1	58'	#12
T-DP3P	0.29%	500kcmil				
DP3P	0.03%	(3)300kcmil				
P3A	0.08%	1/0	2.73%	11	109'	#12
P3B	0.04%	1/0	2.90%	6	116'	#12
P3C	0.07%	1/0	2.93%	17	147'	#12
P4A	0.18%	1/0	2.90%	1	145'	#12
P4B	0.08%	1/0	2.98%	4	119'	#12
P4C	0.17%	1/0	3.01%	9	150'	#12
T-DP4L	0.55%	500kcmil				
DP4L	0.06%	(3)300kcmil				
L4A	0.28%	3/0	1.41%	2	51'	#12
L4B	0.42%	3/0	1.79%	15	119'	#10
L4C	0.25%	3/0	0.62%	26	56'	#12
L4D	0.18%	3/0	1.08%	12	54'	#12
L4E	0.31%	3/0	1.88%	29	75'	#12
L4F	0.17%	3/0	1.08%	10	43'	#12
L4G	0.27%	3/0	0.90%	37	60'	#12
L4H	0.50%	3/0	2.46%	32,34	55'	#12
L4I	0.44%	3/0	1.69%	31,33	44'	#12
L4J	0.49%	3/0	1.56%	22,24	35'	#12
L4K	0.43%	3/0	0.99%	7	49'	#12

FAULT CURRENT SCHEDULE

DEVICE	FAULT AT DEVICE	AIC RATING	VOLTAGE	FEEDER SIZE	FEEDER LENGTH	TRANSFORMER KVA	TRANSFORMER Z%	TRANSFORMER FAULT AT PRIMARY
G2	45,000	65,000	480V	(3)600kcmil				
GSB	42,582	65,000	480V	(5)600kcmil	41'			
MSB	65,000	100,000	480V	(10)600kcmil	55'			
ATS-EL	13,198	30,000	480V	#4	60'			
ELH1	12,418	30,000	480V	#1	8'-5"			
ELH2	3,461	10,000	480V	#4	185'			
ELH3	2,998	10,000	480V	#4	39'			
ELH4	2,585	10,000	480V	#4	47'			
T-EL	4,260	22,000	480V	#6	15'	30	1.75	9,427
ELL	4,052	10,000	208V	#1	14'			
ATS-EP	56,018	65,000	480V	(4)600kcmil	63'			
EPH	54,377	65,000	480V	(4)600kcmil	14'			
EPHWL	45,017	65,000	480V	#1	10'-4"			
EPHWM	53,533	65,000	480V	(2)350kcmil	3'-3"			
EPHWMA	50,846	65,000	480V	3/0	4'-3"			
EPM4H	26,725	42,000	480V	(2)350kcmil	201'			
T-EP	30,617	42,000	480V	500kcmil	18'	225	2	49,536
EPDP	27,674	42,000	208V	(3)300kcmil	26'			
EP1	7,481	10,000	208V	3/0	145'			
EP2A	5,427	10,000	208V	3/0	215'			
EP2B	5,824	10,000	208V	3/0	197'			
EP2C	9,208	14,000	208V	3/0	109'			
EP3A	5,101	10,000	208V	3/0	231'			
EP3B	6,536	10,000	208V	3/0	171'			
EP3C	5,138	10,000	208V	3/0	229'			
EP3D	7,383	10,000	208V	3/0	147'			
EP4A	4,455	10,000	208V	3/0	270'			
EP4B	5,643	10,000	208V	3/0	205'			
EP4C	5,157	10,000	208V	3/0	228'			
EP4D	7,036	10,000	208V	3/0	156'			
EP4E	7,677	10,000	208V	3/0	140'			
ET1	5,174	10,000	208V	#1	131'			
ET3	3,591	10,000	208V	#1	197'			
T-EPM	!!! 13,376 !!!	22,000	480V	2/0	28'	112.5	2	37,328
EPM	11,633	22,000	208V	600kcmil	31'			
EPM4L	4,398	14,000	208V	4/0	216'			
EPM4LA	4,375	14,000	208V	250kcmil	218'			
T-EPW	10,744	22,000	480V	1/0	10'-8"	75	1.75	46,059
EPLW	10,344	22,000	208V	4/0	7'-11"			
LT1	27,417	65,000	480V	1/0	55'			
LT2	7,198	10,000	480V	#1	185'			
LT3	6,290	10,000	480V	#1	36'			
LT4	5,415	10,000	480V	#1	46'			
M1H	41,939	65,000	480V	600kcmil	53'			
T-M1	10,385	14,000	480V	1/0	19'	75	1.75	33,122
M1L	9,529	14,000	208V	3/0	17'			
M2H	22,316	30,000	480V	600kcmil	183'			
T-M2	9,522	14,000	480V	1/0	18'	75	1.75	19,579
M2L	8,845	10,000	208V	4/0	17'			
M3L	6,980	10,000	208V	#1	34'			
M3H	13,265	22,000	480V	3/0	202'			
M4H	33,141	42,000	480V	(3)300kcmil	222'			
M4HA	30,514	42,000	480V	3/0	9'-5"			
M4HB	28,237	42,000	480V	3/0	19'			
M4HC	27,771	30,000	480V	3/0	21'			
T-M4	6,425	10,000	480V	#4	17'	45	1.75	22,242
M4L	5,999	10,000	208V	1/0	17'			

FAULT CURRENT SCHEDULE

DEVICE	FAULT AT DEVICE	AIC RATING	VOLTAGE	FEEDER SIZE	FEEDER LENGTH	TRANSFORMER KVA	TRANSFORMER Z%	TRANSFORMER FAULT AT PRIMARY
T-DP1P	30,830	42,000	480V	(2)4/0	42'	300	2	50,233
DP1P	29,148	30,000	208V	(3)400kcmil	14'			
P1A	23,616	25,000	208V	#1	9'-5"			
P1B	4,678	10,000	208V	1/0	180'			
P1C	4,729	10,000	208V	1/0	178'			
P1D	9,454	10,000	208V	3/0	108'			
P1E	14,458	22,000	208V	#1	34'			
P2A	4,636	10,000	208V	1/0	182'			
P2B	4,592	10,000	208V	1/0	184'			
P2C	4,589	10,000	208V	1/0	184'			
PM	14,408	22,000	208V	#1	34'			
T-DP2L	19,495	30,000	480V	500kcmil	181'	225	2	21,860
DP2L	18,873	22,000	208V	(3)300kcmil	12'			
L2A	12,957	18,000	208V	3/0	40'			
L2B	9,563	14,000	208V	3/0	81'			
L2C	8,885	14,000	208V	3/0	93'			
L2D	13,796	22,000	208V	3/0	33'			
L2E	13,060	18,000	208V	3/0	39'			
L2F	8,212	14,000	208V	3/0	106'			
L2G	7,571	14,000	208V	3/0	121'			
L2H	7,422	14,000	208V	3/0	124'			
L2I	7,682	14,000	208V	3/0	118'			
L2J	7,559	14,000	208V	3/0	121'			
L2K	6,788	10,000	208V	3/0	142'			
L2L	5,441	10,000	208V	3/0	193'			
T-DP3L	19,106	30,000	480V	500kcmil	196'	225	2	20,726
DP3L	18,213	22,000	208V	(3)300kcmil	17'			
L3A	12,171	14,000	208V	3/0	45'			
L3B	8,537	14,000	208V	3/0	96'			
L3C	11,231	14,000	208V	3/0	55'			
L3D	9,852	14,000	208V	3/0	74'			
L3E	8,634	14,000	208V	3/0	94'			
L3F	8,185	14,000	208V	3/0	104'			
L3G	7,074	10,000	208V	3/0	131'			
L3H	7,538	14,000	208V	3/0	119'			
L3I	6,124	10,000	208V	3/0	162'			
L3J	6,042	10,000	208V	3/0	165'			
L3K	5,416	10,000	208V	3/0	192'			
T-DP3P	19,187	30,000	480V	500kcmil	193'	225	2	20,955
DP3P	18,266	22,000	208V	(3)300kcmil	18'			
P3A	16,186	22,000	208V	1/0	9'-7"			
P3B	15,715	22,000	208V	1/0	12'			
P3C	15,211	22,000	208V	1/0	15'			
P4A	12,891	22,000	208V	1/0	28'			
P4B	12,568	22,000	208V	1/0	31'			
P4C	12,292	22,000	208V	1/0	33'			
T-DP4L	18,650	30,000	480V	500kcmil	214'	225	2	19,488
DP4L	18,088	22,000	208V	(3)300kcmil	11'			
L4A	10,510	14,000	208V	3/0	64'			
L4B	7,708	14,000	208V	3/0	114'			
L4C	9,777	14,000	208V	3/0	74'			
L4D	12,175	18,000	208V	3/0	44'			
L4E	9,183	14,000	208V	3/0	84'			
L4F	8,437	14,000	208V	3/0	98'			
L4G	8,394	14,000	208V	3/0	99'			
L4H	6,890	10,000	208V	3/0	136'			
L4I	7,090	10,000	208V	3/0	130'			
L4J	6,625	10,000	208V	3/0	144'			
L4K	5,837	10,000	208V	3/0	173'			

FEEDER SCHEDULE

DEVICE	CALLOUT
50	
T-EL	3/4"C, 3#6, #10G
60	
ATS-EL	1-1/4"C, 3#4, #4N, #10G
ELH2	1-1/4"C, 3#4, #4N, #10G
ELH3	1-1/4"C, 3#4, #4N, #10G
ELH4	1-1/4"C, 3#4, #4N, #10G
70	
T-M4	1-1/4"C, 3#4, #4N, #8G
100	
ELH1	1-1/2"C, 3#1, #1N, #8G
ELL	1-1/2"C, 3#1, #1N, #6G
EPHWL	1-1/2"C, 3#1, #1N, #8G
ET1	1-1/2"C, 3#1, #1N, #8G
ET3	1-1/2"C, 3#1, #1N, #8G
LT2	1-1/2"C, 3#1, #1N, #8G
LT3	1-1/2"C, 3#1, #1N, #8G
LT4	1-1/2"C, 3#1, #1N, #8G
M3L	1-1/2"C, 3#1, #1N, #8G
P1A	1-1/2"C, 3#1, #1N, #8G
P1E	1-1/2"C, 3#1, #1N, #8G
PM	1-1/2"C, 3#1, #1N, #8G
125	
P1B	1-1/2"C, 3-1/0, 1/0N, #6G
P1C	1-1/2"C, 3-1/0, 1/0N, #6G
P2A	1-1/2"C, 3-1/0, 1/0N, #6G
P2B	1-1/2"C, 3-1/0, 1/0N, #6G
P2C	1-1/2"C, 3-1/0, 1/0N, #6G
T-EPW	1-1/2"C, 3-1/0, #6G
T-M1	1-1/2"C, 3-1/0, 1/0N, #6G
T-M2	1-1/2"C, 3-1/0, #6G

FEEDER SCHEDULE

DEVICE	CALLOUT
150	
LT1	1-1/2"C, 3-1/0, 1/0N, #6G
M4L	1-1/2"C, 3-1/0, 1/0N, #6G
P3A	1-1/2"C, 3-1/0, 1/0N, #6G
P3B	1-1/2"C, 3-1/0, 1/0N, #6G
P3C	1-1/2"C, 3-1/0, 1/0N, #6G
P4A	1-1/2"C, 3-1/0, 1/0N, #6G
P4B	1-1/2"C, 3-1/0, 1/0N, #6G
P4C	1-1/2"C, 3-1/0, 1/0N, #6G
175	
T-EPM	1-1/2"C, 3-2/0, #6G
200	
EP1	2"C, 3-3/0, 3/0N, #6G
EP2A	2"C, 3-3/0, 3/0N, #6G
EP2B	2"C, 3-3/0, 3/0N, #6G
EP2C	2"C, 3-3/0, 3/0N, #6G
EP3A	2"C, 3-3/0, 3/0N, #6G
EP3B	2"C, 3-3/0, 3/0N, #6G
EP3C	2"C, 3-3/0, 3/0N, #6G
EP3D	2"C, 3-3/0, 3/0N, #6G
EP4A	2"C, 3-3/0, 3/0N, #6G
EP4B	2"C, 3-3/0, 3/0N, #6G
EP4C	2"C, 3-3/0, 3/0N, #6G
EP4D	2"C, 3-3/0, 3/0N, #6G
EP4E	2"C, 3-3/0, 3/0N, #6G
EPHWMA	2"C, 3-3/0, 3/0N, #6G
L2A	2"C, 3-3/0, 3/0N, #6G
L2B	2"C, 3-3/0, 3/0N, #6G
L2C	2"C, 3-3/0, 3/0N, #6G
L2D	2"C, 3-3/0, 3/0N, #6G
L2E	2"C, 3-3/0, 3/0N, #6G
L2F	2"C, 3-3/0, 3/0N, #6G
L2G	2"C, 3-3/0, 3/0N, #6G
L2H	2"C, 3-3/0, 3/0N, #6G

FEEDER SCHEDULE

DEVICE	CALLOUT
L2I	2"C, 3-3/0, 3/0N, #6G
L2J	2"C, 3-3/0, 3/0N, #6G
L2K	2"C, 3-3/0, 3/0N, #6G
L2L	2"C, 3-3/0, 3/0N, #6G
L3A	2"C, 3-3/0, 3/0N, #6G
L3B	2"C, 3-3/0, 3/0N, #6G
L3C	2"C, 3-3/0, 3/0N, #6G
L3D	2"C, 3-3/0, 3/0N, #6G
L3E	2"C, 3-3/0, 3/0N, #6G
L3F	2"C, 3-3/0, 3/0N, #6G
L3G	2"C, 3-3/0, 3/0N, #6G
L3H	2"C, 3-3/0, 3/0N, #6G
L3I	2"C, 3-3/0, 3/0N, #6G
L3J	2"C, 3-3/0, 3/0N, #6G
L3K	2"C, 3-3/0, 3/0N, #6G
L4A	2"C, 3-3/0, 3/0N, #6G
L4B	2"C, 3-3/0, 3/0N, #6G
L4C	2"C, 3-3/0, 3/0N, #6G
L4D	2"C, 3-3/0, 3/0N, #6G
L4E	2"C, 3-3/0, 3/0N, #6G
L4F	2"C, 3-3/0, 3/0N, #6G
L4G	2"C, 3-3/0, 3/0N, #6G
L4H	2"C, 3-3/0, 3/0N, #6G
L4I	2"C, 3-3/0, 3/0N, #6G
L4J	2"C, 3-3/0, 3/0N, #6G
L4K	2"C, 3-3/0, 3/0N, #4G
M1L	2"C, 3-3/0, 3/0N, #4G
M3H	2"C, 3-3/0, 3/0N, #6G
M4HA	2"C, 3-3/0, 3/0N, #6G
M4HB	2"C, 3-3/0, 3/0N, #6G
M4HC	2"C, 3-3/0, 3/0N, #6G
P1D	2"C, 3-3/0, 3/0N, #6G
225	
EPLW	2-1/2"C, 3-4/0, 4/0N, #2G

FEEDER SCHEDULE

DEVICE	CALLOUT
EPM4L	2-1/2"C, 3-4/0, 4/0N, #6G (2,3)
M2L	2-1/2"C, 3-4/0, 4/0N, #2G
250	
EPM4LA	2-1/2"C, 3-250kcmil, 250kcmil N, #6G (2,3)
350	
T-DP2L	3"C, 3-500kcmil, #2G
T-DP3L	3"C, 3-500kcmil, #2G
T-DP3P	3"C, 3-500kcmil, #2G
T-DP4L	3"C, 3-500kcmil, #2G
T-EP	3"C, 3-500kcmil, #2G
400	
EPM	3-1/2"C, 3-600kcmil, 600kcmil N, 1/0G (2,3)
M1H	3-1/2"C, 3-600kcmil, 600kcmil N, #2G
M2H	3-1/2"C, 3-600kcmil, 600kcmil N, #2G
450	
T-DP1P	(2)2"C, 3-4/0, #2G
600	
EPHWM	(2)3"C, 3-350kcmil, 350kcmil N, #1G
EPM4H	(2)3"C, 3-350kcmil, 350kcmil N, #1G
800	
DP2L	(3)3"C, 3-300kcmil, 300kcmil N, 2/0G
DP3L	(3)3"C, 3-300kcmil, 300kcmil N, 2/0G
DP3P	(3)3"C, 3-300kcmil, 300kcmil N, 2/0G
DP4L	(3)3"C, 3-300kcmil, 300kcmil N, 2/0G
EPDP	(3)3"C, 3-300kcmil, 300kcmil N, 2/0G
M4H	(3)3"C, 3-300kcmil, 300kcmil N, 1/0G
1000	
DP1P	(3)3"C, 3-400kcmil, 400kcmil N, 3/0G
1200	
G2	(3)3-1/2"C, 3-600kcmil, 600kcmil N, 3/0G
1600	
ATS-EP	(4)3-1/2"C, 3-600kcmil, 600kcmil N, 4/0G
EPH	(4)3-1/2"C, 3-600kcmil, 600kcmil N, 4/0G
2000	
GSB	(5)3-1/2"C, 3-600kcmil, 600kcmil N, 250kcmil G
4000	
MSB	(10)3-1/2"C, 3-600kcmil, 600kcmil N

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GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

ELECTRICAL SCHEDULES

Sheet No.

2E-502

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

LUMINAIRE SCHEDULE

WTWT	Lamp	Description	Manufacturer	Model	Electrical Data
					277 V/1-180 VA
AA1		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-13 VA
AA3		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-24 VA
BB1		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-32 VA
DP1		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-180 VA
E1	LED	LED SINGLE FACE EXIT SIGN WITH 90min. BATTERY BACK UP	LITHONIA LIGHTING	EXR LED M6-784231874806	277 V/1-5 VA
F1	LED	2X4 LED RECESSED TROFFER	LITHONIA LIGHTING	2VTL4-48L-ADP-EZ1-LP835	277 V/1-46 VA
F1A	LED	2X4 LED RECESSED TROFFER WITH DRYWALL CEILING ADAPTER TRIM KIT	LITHONIA LIGHTING	2VTL4-48L-ADP-EZ1-LP835-DGA24FS/VT	277 V/1-46 VA
F2	LED	1X4 LED RECESSED TROFFER	LITHONIA LIGHTING	VTL4-40L-ADP-EZ1-LP835	277 V/1-40 VA
F3	LED	2X2 LED RECESSED TROFFER	LITHONIA LIGHTING	2VTL2-20L-ADP-EZ1-LP835	277 V/1-20 VA
F4	LED	4' LED STRIP LIGHT	LITHONIA LIGHTING	ZL2N-L48-3000LM-MDD-MVOLT-35K	277 V/1-32 VA
F5	LED	4" LED RECESSED DOWNLIGHT	GOTHAM LIGHTING	EVO-35/20-4AR-MD-LSS-MVOLT-EZ1	277 V/1-24 VA
F6	LED	8' LINEAR PENDANT	ZANEEN LIGHTING	L3UT-SUS-SYS-DR-OP-8FT-277-L356-DV-1C3-2M	277 V/1-128 VA
F7	LED	5' LINEAR PENDANT	ZANEEN LIGHTING	L3UT-SUS-SYS-DR-OP-5FT-277-L356-DV-1C3-2M	277 V/1-128 VA
F8	LED	LED PENDANT	LBL LIGHTING	LPWHSCLED827	277 V/1-10 VA
F9	LED	4" LED RECESSED DOWNLIGHT WALLWASH	GOTHAM LIGHTING	EVO-LW-35/20-4AR-LSS-MVOLT	277 V/1-22 VA
F10	LED	4' LED STRIP LIGHT	LITHONIA LIGHTING	ZL2N-L48-3000LM-MDD-MVOLT-35K	277 V/1-41 VA
F12	LED	2'-9" LED SURFACE	VIBIA	PLUS 0605-03	277 V/1-102 VA
F13	LED	CORRIDOR WALL SCONCE	EUREKA LIGHTING	3414BLED.6.30-DV-SC-FRO	277 V/1-6 VA
F14	LED	DECORATIVE LOBBY PENDANT	LUCE PLAN	GARBI 1D900AW00018	277 V/1-30 VA
F16	LED	STAIRWAY SCONCE WITH 90-MINUTE BATTERY BACK UP	EUREKA LIGHTING	DUSK 3132-24 2XLED.11.30277V-DV-EM-WH-CHR	277 V/1-11 VA
F17	LED	DECORATIVE PENDANT	ARTEMIDE 125	LED NET LINE SUSPENSION 1578058A-WHITE	277 V/1-180 VA
F18	LED	10' COVE LIGHT	PHILIPS	EW COVE EC POWERHOUSE	277 V/1-48 VA
F19	LED	8' COVE LIGHT	PHILIPS	EW COVE EC POWERHOUSE	277 V/1-44 VA
F21	LED	2x2 DARK ROOM RECESSED	COLE LIGHTING	PH810-PB-2-IC	277 V/1-75 VA
F22	LED	2X4 LED HAZARDOUS LOCATION RECESSED TROFFER	KURZTON LIGHTING	HL-G-3-2X4-2/LEDR-UNV	277 V/1-76 VA
F23	LED	1X4 LED RECESSED TROFFER RED LIGHT ONLY	KURZTON LIGHTING	EL-R-5-1X4-2/LEDR-35K-UNV	277 V/1-64 VA
F24	LED	WRAPAROUND FIXTURE WITH ONE PIECE, MOLDED, HIGH IMPACT DIFFUSER SEALED AGAINST DUST AND MOISTURE	TBD	CONTRACTOR SELECT	277 V/1-59 VA
F25	LED	8' LED LOWBAY	LITHONIA LIGHTING	TMSL 16000LM L/LV MVOLT GZ10 40K 80CRI WH	277 V/1-149 VA
F27	LED	DECORATIVE PENDANT	ARTEMIDE 66	LED NET LINE SUSPENSION 1589050A	277 V/1-180 VA
F28	LED	2"X4' RECESSED LED FIXTURE WITH HARD-LID MOUNTING KIT.	PINNACLE EDGE 2	E2A-35-4'-FL-U-OL1-1-0-W	277 V/1-5 VA
F30	LED	2X4 LED RECESSED TROFFER	KURZTON LIGHTING	FP-F/EZ-1-2X4-2/LEDR40-277	277 V/1-35 VA
F31	LED	8" WET LOCATION DOWNLIGHT	PRESCOLITE	LC8ML-DM1-277-8LCML-30L-30K-8-WH-WT-SCA8D	277 V/1-40 VA
F32	LED	EXTERIOR STAIRWAY SCONCE	BEGA LIGHTING	33 592	277 V/1-26 VA
F33	LED	SURFACE MOUNTED 12" CIRCULAR FIXTURE	BEGA LIGHTING	33 681	277 V/1-26 VA
F34	LED	LED UNDERCABINET LIGHTING WITH MULTI-VOLT TRANSFORMER AND STEP DIMMER	LITHONIA LIGHTING	RAZ-24IN-30K-90CRI	277 V/1-18 VA
L2	LED	RECESSED 2.5" WIDE LINEAR LIGHTING	AMERLUX	GRUV2.5-FLG-A16-PL-5-30-HW-120/277-LENGTH-CONFIGURATION-0-10V-92 CRI	277 V/1-3 VA
L5	LED	1.5" LED ILLUMINATED HAND RAIL. HANDRAIL AND JACKET ONLY. POST AND GUARDRAIL BY OTHERS	INTENSE LIGHTING	IVR15-RPS-ST-W-HO-27-30AS	277 V/1-304 VA
L8	LED	LED WALL PACK	LITHONIA LIGHTING	OLWX1-LED-40W-40K	277 V/1-39 VA
L9	LED	4' SURFACE MOUNTED VANDAL RESISTANT FIXTURE	PHILIPS DAY-BRITE	DWPE35L-840-4-UNV-MD360W	277 V/1-32 VA
LL1		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-3 VA
LL2		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-5 VA
LL4		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-40 VA
LL5		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-27 VA
PP1		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-24 VA
PP2		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-24 VA
SL1		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-6 VA
TL1		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			120 V/1-340 VA
UU1		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-54 VA
WW1		REFER TO LIGHTING DESIGNER SCHEDULE ON SHEETS 2LT-0.03 AND 2LT-0.04 FOR FIXTURE DESCRIPTION, MANUFACTURER AND MODEL			277 V/1-24 VA

2.2

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GENE THEORY -
CP-2
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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENUMDUM #2.1
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title
LUMINAIRE SCHEDULE

Sheet No.
2E-503

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

10/2/2017 10:41:14 AM
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Switchboard: MSB

Location:
Supply From: UT-2
Mounting: Floor
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 100,000
Mains Type: MCB
Mains Rating: 4000 A
MCB Rating: 4000 A

Notes:

REFER TO SINGLE LINE DIAGRAM FOR CIRCUIT BREAKER QUANTITIES AND SIZES

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment - Non-Dwelling Unit	81875 VA	65.00%	53219 VA		
Lighting - Exterior	3327 VA	125.00%	4158 VA	**Total Conn. Load:**	3250974 VA
Other	3895 VA	100.00%	3895 VA	**Total Est. Demand:**	3166556 VA
Receptacle	263960 VA	51.89%	136980 VA	**Total Conn.:**	3910 A
Spare	77908 VA	100.00%	77908 VA	**Total Est. Demand:**	3809 A
SYSTEM FURNITURE	35280 VA	64.17%	22640 VA		
Lighting	80434 VA	125.00%	100542 VA		
Power	1929647 VA	100.00%	1929647 VA		
Non-Continuous	523100 VA	100.00%	523100 VA		
Continuous	255000 VA	125.00%	318750 VA		

Switchboard: GSB

Location:
Supply From: G2
Mounting: Pad Mounted
Enclosure:

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 1600 A
MCB Rating: 1600 A

Notes:

REFER TO SINGLE LINE DIAGRAM FOR CIRCUIT BREAKER QUANTITIES AND SIZES

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Switchboard: DP1P

Location:
Supply From: T-DP1P
Mounting: Floor
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MCB
Mains Rating: 1000 A
MCB Rating: 1000 A

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	P1A	3	100 A	9280 VA	
2	P1B	3	125 A	11820 VA	
3	P1C	3	125 A	13740 VA	
4	P1D	3	200 A	75935 VA	
5	P1E	3	100 A	18480 VA	
6	PM	3	100 A	3360 VA	
7	P2A	3	125 A	15239 VA	
8	P2B	3	125 A	6480 VA	
9	P2C	3	125 A	10020 VA	
10	Bussed Space	--	--	0 VA	--
11	Bussed Space	--	--	0 VA	--
12	Bussed Space	--	--	0 VA	--
13	Bussed Space	--	--	0 VA	--
14	Bussed Space	--	--	0 VA	--
15	Bussed Space	--	--	0 VA	--
16	Bussed Space	--	--	0 VA	--
17	Bussed Space	--	--	0 VA	--
18	Bussed Space	--	--	0 VA	--
19	Bussed Space	--	--	0 VA	--
20	Bussed Space	--	--	0 VA	--
				164354 VA	
				456 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment - Non-Dwelling Unit	77475 VA	65.00%	50359 VA		
Receptacle	68400 VA	57.31%	39200 VA	**Total Conn. Load:**	164354 VA
SYSTEM FURNITURE	9360 VA	100.00%	9360 VA	**Total Est. Demand:**	108553 VA
Lighting	2059 VA	125.00%	2574 VA	**Total Conn.:**	456 A
Power	7060 VA	100.00%	7060 VA	**Total Est. Demand:**	301 A

Switchboard: DP3P

Location:
Supply From: T-DP3P
Mounting: Floor
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 800 A

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	P3A	3	150 A	19720 VA	
2	P3B	3	150 A	3420 VA	
3	P3C	3	150 A	9000 VA	
4	P4A	3	150 A	18900 VA	
5	P4B	3	150 A	6120 VA	
6	P4C	3	150 A	15060 VA	
7	Bussed Space	--	--	0 VA	--
8	Bussed Space	--	--	0 VA	--
9	Bussed Space	--	--	0 VA	--
10	Bussed Space	--	--	0 VA	--
11	Bussed Space	--	--	0 VA	--
12	Bussed Space	--	--	0 VA	--
13	Bussed Space	--	--	0 VA	--
14	Bussed Space	--	--	0 VA	--
15	Bussed Space	--	--	0 VA	--
16	Bussed Space	--	--	0 VA	--
17	Bussed Space	--	--	0 VA	--
18	Bussed Space	--	--	0 VA	--
19	Bussed Space	--	--	0 VA	--
20	Bussed Space	--	--	0 VA	--
				72220 VA	
				200 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment - Non-Dwelling Unit	4400 VA	65.00%	2860 VA		
Receptacle	39600 VA	62.63%	24800 VA	**Total Conn. Load:**	72220 VA
SYSTEM FURNITURE	25920 VA	69.29%	17960 VA	**Total Est. Demand:**	48295 VA
Lighting	1500 VA	125.00%	1875 VA	**Total Conn.:**	200 A
Power	800 VA	100.00%	800 VA	**Total Est. Demand:**	134 A

Switchboard: DP2L

Location:
Supply From: T-DP2L
Mounting: Floor
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 800 A

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	L2A	3	200 A	17160 VA	
2	L2B	3	200 A	19860 VA	
3	L2C	3	200 A	31680 VA	
4	L2D	3	200 A	16760 VA	
5	L2E	3	200 A	39289 VA	
6	L2F	3	200 A	6660 VA	
7	L2G	3	200 A	15120 VA	
8	L2H	3	200 A	14120 VA	
9	L2I	3	200 A	14060 VA	
10	L2J	3	200 A	14560 VA	
11	L2K	3	200 A	16140 VA	
12	L2L	3	200 A	14060 VA	
13	Bussed Space	--	--	0 VA	--
14	Bussed Space	--	--	0 VA	--
15	Bussed Space	--	--	0 VA	--
16	Bussed Space	--	--	0 VA	--
17	Bussed Space	--	--	0 VA	--
18	Bussed Space	--	--	0 VA	--
19	Bussed Space	--	--	0 VA	--
20	Bussed Space	--	--	0 VA	--
				219469 VA	
				609 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	9180 VA	100.00%	9180 VA		
Power	68029 VA	100.00%	68029 VA	**Total Conn. Load:**	219469 VA
Non-Continuous	142260 VA	100.00%	142260 VA	**Total Est. Demand:**	219469 VA
				Total Conn.:	609 A
				Total Est. Demand:	609 A

Switchboard: DP3L

Location:
Supply From: T-DP3L
Mounting: Floor
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 800 A

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	L3A	3	200 A	20540 VA	
2	L3B	3	200 A	13060 VA	
3	L3C	3	200 A	18220 VA	
4	L3D	3	200 A	13780 VA	
5	L3E	3	200 A	14980 VA	
6	L3F	3	200 A	11880 VA	
7	L3G	3	200 A	17540 VA	
8	L3H	3	200 A	13560 VA	
9	L3I	3	200 A	8740 VA	
10	L3J	3	200 A	12100 VA	
11	L3K	3	200 A	17000 VA	
12	Bussed Space	--	--	0 VA	--
13	Bussed Space	--	--	0 VA	--
14	Bussed Space	--	--	0 VA	--
15	Bussed Space	--	--	0 VA	--
16	Bussed Space	--	--	0 VA	--
17	Bussed Space	--	--	0 VA	--
18	Bussed Space	--	--	0 VA	--
19	Bussed Space	--	--	0 VA	--
20	Bussed Space	--	--	0 VA	--
				161400 VA	
				448 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	63540 VA	57.87%	36770 VA		
Power	18400 VA	100.00%	18400 VA	**Total Conn. Load:**	161400 VA
Non-Continuous	79460 VA	100.00%	79460 VA	**Total Est. Demand:**	134630 VA
				Total Conn.:	448 A
				Total Est. Demand:	374 A

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title

PANEL SCHEDULES

Sheet No.

2E-504

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

11/17/2017 4:31:16 PM
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Switchboard: DP4L

Location:
Supply From: T-DP4L
Mounting: Floor
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 800 A

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	L4A	3	200 A	20100 VA	
2	L4B	3	200 A	17720 VA	
3	L4C	3	200 A	14800 VA	
4	L4D	3	200 A	15920 VA	
5	L4E	3	200 A	17040 VA	
6	L4F	3	200 A	6500 VA	
7	L4G	3	200 A	12000 VA	
8	L4H	3	200 A	18460 VA	
9	L4I	3	200 A	16760 VA	
10	L4J	3	200 A	17060 VA	
11	L4K	3	200 A	12120 VA	
12	Bussed Space	--	--	0 VA	--
13	Bussed Space	--	--	0 VA	--
14	Bussed Space	--	--	0 VA	--
15	Bussed Space	--	--	0 VA	--
16	Bussed Space	--	--	0 VA	--
17	Bussed Space	--	--	0 VA	--
18	Bussed Space	--	--	0 VA	--
19	Bussed Space	--	--	0 VA	--
20	Bussed Space	--	--	0 VA	--
				168480 VA	
				468 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	55800 VA	58.96%	32900 VA		
Power	13520 VA	100.00%	13520 VA	**Total Conn. Load:**	168480 VA
Non-Continuous	99160 VA	100.00%	99160 VA	**Total Est. Demand:**	145580 VA
				Total Conn.:	468 A
				Total Est. Demand:	404 A

Switchboard: EPDP

Location:
Supply From: T-EP
Mounting: Floor
Enclosure: Type 2

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42,000
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 800 A
2.3

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	ET1	3	100 A	360 VA	
2	EP1	3	200 A	6452 VA	
3	EP2A	3	200 A	9920 VA	
4	EP2B	3	200 A	20368 VA	
5	EP2C	3	200 A	14320 VA	
6	ET3	3	100 A	1980 VA	
7	EP3A	3	200 A	22160 VA	
8	EP3B	3	200 A	21120 VA	
9	EP3C	3	200 A	18912 VA	
10	EP3D	3	200 A	17620 VA	
11	EP4A	3	200 A	22016 VA	
12	EP4B	3	200 A	13456 VA	
13	EP4C	3	200 A	39460 VA	
14	EP4D	3	200 A	12808 VA	
15	EP4E	3	200 A	8400 VA	
16	Bussed Space	--	--	0 VA	--
17	Bussed Space	--	--	0 VA	--
18	Bussed Space	--	--	0 VA	--
19	Bussed Space	--	--	0 VA	--
20	Bussed Space	--	--	0 VA	--
				229352 VA	
				637 A	

2.3

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	22320 VA	72.40%	16160 VA		
Spare	252 VA	100.00%	252 VA	**Total Conn. Load:**	229352 VA
Power	9760 VA	100.00%	9760 VA	**Total Est. Demand:**	223192 VA
Non-Continuous	197020 VA	100.00%	197020 VA	**Total Conn.:**	637 A
				Total Est. Demand:	620 A

Branch Panel: L2A

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	540 VA	900 VA					1	20 A	Receptacle	2
3	Receptacle	20 A	1			720 VA	250 VA			2	20 A	Receptacle	4
5	Receptacle	20 A	2					250 VA	250 VA	--	--	--	6
7	--	--	--	250 VA	540 VA					1	20 A	Receptacle	8
9	Receptacle	20 A	1			900 VA	250 VA			2	20 A	Receptacle	10
11	Receptacle	20 A	2					250 VA	250 VA	--	--	--	12
13	--	--	--	250 VA	250 VA					2	20 A	Receptacle	14
15		20 A	1			900 VA	250 VA			--	--	--	16
17	Receptacle	20 A	1					900 VA	180 VA	1	20 A	Receptacle	18
19	Receptacle	20 A	2	250 VA	540 VA					1	20 A	Receptacle	20
21	--	--	--			250 VA	250 VA			2	20 A	Receptacle	22
23	Receptacle	20 A	1					900 VA	250 VA	--	--	--	24
25	Receptacle	20 A	2	250 VA	360 VA					1	20 A	Receptacle	26
27	--	--	--			250 VA	540 VA			1	20 A	Receptacle	28
29	Receptacle	20 A	1					900 VA	180 VA	1	20 A	Receptacle	30
31	Receptacle	20 A	2	250 VA	250 VA					2	20 A	Non-Continuous	32
33	--	--	--			250 VA	250 VA			--	--	--	34
35	Receptacle	20 A	1					720 VA	540 VA	1	20 A	Non-Continuous	36
37	Receptacle	20 A	1	900 VA	250 VA					2	20 A	Non-Continuous	38
39	Receptacle	20 A	2			250 VA	250 VA			--	--	--	40
41	--	--	--					250 VA	0 VA	--	--	Bussed Space	42
			Total Load:	5780 VA		5560 VA		5820 VA					
			Total Amps:	48 A		46 A		49 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1980 VA	100.00%	1980 VA		
Non-Continuous	15180 VA	100.00%	15180 VA	**Total Conn. Load:**	17160 VA
				Total Est. Demand:	17160 VA
				Total Conn.:	48 A
				Total Est. Demand:	48 A

Branch Panel: L2B

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	180 VA	360 VA					1	20 A	Receptacle	2
3	Receptacle	20 A	2			250 VA	1200...			2	20 A	Centrifuge	4
5	--	--	--					250 VA	1200...	--	--	--	6
7	Receptacle	20 A	1	180 VA	1200...					2	20 A	Centrifuge	8
9	Receptacle	20 A	1			180 VA	1200...			--	--	--	10
11	Receptacle	20 A	1					180 VA	360 VA	1	20 A	Receptacle	12
13	Ceiling Receptacle	20 A	1	400 VA	400 VA					1	20 A	Ceiling Receptacle	14
15	Ceiling Receptacle	20 A	1			400 VA	400 VA			1	20 A	Ceiling Receptacle	16
17	Ceiling Receptacle	20 A	1					400 VA	400 VA	1	20 A	Ceiling Receptacle	18
19	Ceiling Receptacle	20 A	1	400 VA	400 VA					1	20 A	Ceiling Receptacle	20
21	Ceiling Receptacle	20 A	1			400 VA	400 VA			1	20 A	Ceiling Receptacle	22
23	Ceiling Receptacle	20 A	1					400 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	Ceiling Receptacle	20 A	1	400 VA	300 VA					2	20 A	Ceiling Receptacle	26
27	Ceiling Receptacle	20 A	1			400 VA	300 VA			--	--	--	28
29	Receptacle	20 A	2					300 VA	400 VA	1	20 A	Ceiling Receptacle	30
31	--	--	--	300 VA	400 VA					1	20 A	Ceiling Receptacle	32
33	Receptacle	20 A	1			360 VA	180 VA			1	20 A	Receptacle	34
35	Centrifuge	20 A	2					1200...	180 VA	1	20 A	Receptacle	36
37	--	--	--	1200...	0 VA					--	--	Bussed Space	38
39	Centrifuge	20 A	2			1200...	0 VA			--	--	Bussed Space	40
41	--	--	--					1200...	0 VA	--	--	Bussed Space	42
			Total Load:	6120 VA		6870 VA		6870 VA					
			Total Amps:	51 A		58 A		58 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1440 VA	100.00%	1440 VA		
Power	9600 VA	100.00%	9600 VA	**Total Conn. Load:**	19860 VA
Non-Continuous	8820 VA	100.00%	8820 VA	**Total Est. Demand:**	19860 VA
				Total Conn.:	55 A
				Total Est. Demand:	55 A

Branch Panel: L2C

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	360 VA	900 VA					1	20 A	Receptacle	2
3	Receptacle	20 A	1			900 VA	1200...			2	20 A	Centrifuge	4
5	Receptacle	20 A	1					720 VA	1200...	--	--	--	6
7	Centrifuge	20 A	2	1200...	1200...					2	20 A	Centrifuge	8
9	--	--	--			1200...	1200...			--	--	--	10
11	Centrifuge	20 A	2					1200...	400 VA	1	20 A	Ceiling Receptacle	12
13	--	--	--	1200...	400 VA					1	20 A	Ceiling Receptacle	14
15	Receptacle	20 A	1			540 VA	400 VA			1	20 A	Ceiling Receptacle	16
17	Receptacle	20 A	1					720 VA	400 VA	1	20 A	Ceiling Receptacle	18
19	Receptacle	20 A	2	250 VA	400 VA					1	20 A	Ceiling Receptacle	20
21	--	--	--			250 VA	400 VA			1	20 A	Ceiling Receptacle	22
23	Receptacle	20 A	1					540 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	Centrifuge	20 A	2	1200...	400 VA					1	20 A	Ceiling Receptacle	26
27	--	--	--			1200...	400 VA			1	20 A	Ceiling Receptacle	28
29	Centrifuge	20 A	2					1200...	400 VA	1	20 A	Ceiling Receptacle	30
31	--	--	--	1200...	400 VA					1	20 A	Ceiling Receptacle	32
33	Receptacle	20 A	1			900 VA	400 VA			1	20 A	Ceiling Receptacle	34
35	Centrifuge	20 A	2					1200...	400 VA	1	20 A	Ceiling Receptacle	36
37	--	--	--	1200...	400 VA					1	20 A	Ceiling Receptacle	38
39	Centrifuge	20 A	2			1200...	400 VA			1	20 A	Ceiling Receptacle	40
41	--	--	--					1200...	400 VA	1	20 A	Ceiling Receptacle	42
			Total Load:	10710 VA		10590 VA		10380 VA					
			Total Amps:	90 A		89 A		87 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	720 VA	100.00%	720 VA		
Power	19200 VA	100.00%	19200 VA	**Total Conn. Load:**	31680 VA
Non-Continuous	11760 VA	100.00%	11760 VA	**Total Est. Demand:**	31680 VA
				Total Conn.:	88 A
				Total Est. Demand:	88 A

Branch Panel: L2D

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	180 VA	400 VA					1	20 A	Ceiling Receptacle	2
3	Receptacle	20 A	1			360 VA	400 VA			1	20 A	Ceiling Receptacle	4
5	Receptacle	20 A	1					720 VA	400 VA	1	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	1	900 VA	400 VA					1	20 A	Ceiling Receptacle	8
9	Receptacle	20 A	2			250 VA	400 VA			1	20 A	Ceiling Receptacle	10
11	--	--	--					250 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	Receptacle	20 A	1	900 VA	400 VA					1	20 A	Ceiling Receptacle	14
15	Centrifuge	20 A	2			1200...	400 VA			1	20 A	Ceiling Receptacle	16
17	--	--	--					1200...	400 VA	1	20 A	Ceiling Receptacle	18
19	Centrifuge	20 A	2	1200...	400 VA					1	20 A	Ceiling Receptacle	20
21	--	--	--			1200...	400 VA			1	20 A	Ceiling Receptacle	22
23	Ceiling Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	24
25	Ceiling Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	26
27	Ceiling Receptacle	20 A	1			400 VA	0 VA			--	--	Bussed Space	28
29	Ceiling Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	30
31	Ceiling Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	32
33	Ceiling Receptacle	20 A	1			400 VA	0 VA			--	--	Bussed Space	34
35	Ceiling Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	36
37	Ceiling Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	38
39	Ceiling Receptacle	20 A	1			400 VA	0 VA			--	--	Bussed Space	40
41	Ceiling Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	42
			Total Load:	5980 VA		5810 VA		4970 VA					
			Total Amps:	51 A		49 A		41 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	540 VA	100.00%	540 VA		
Power	4800 VA	100.00%	4800 VA	**Total Conn. Load:**	16760 VA
Non-Continuous	11420 VA	100.00%	11420 VA	**Total Est. Demand:**	16760 VA
				Total Conn.:	47 A
				Total Est. Demand:	47 A

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title
PANEL SCHEDULES

Sheet No.
2E-505

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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Branch Panel: L2E

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	360 VA	300 VA					2	20 A	Receptacle	2
3	Receptacle	20 A	1			540 VA	300 VA			--	--	--	4
5	Mixer	20 A	2					300 VA	400 VA	1	20 A	Ceiling Receptacle	6
7	--	--	--	300 VA	400 VA					1	20 A	Ceiling Receptacle	8
9	Mixer	20 A	2			300 VA	400 VA			1	20 A	Fume Hood	10
11	--	--	--					300 VA	400 VA	1	20 A	Fume Hood	12
13	Ice Machine	20 A	1	360 VA	400 VA					1	20 A	Ceiling Receptacle	14
15	Glassware Washer	70 A	3			6365...	400 VA			1	20 A	Ceiling Receptacle	16
17	--	--	--					6365...	400 VA	1	20 A	Ceiling Receptacle	18
19	--	--	--	6365...	400 VA					1	20 A	Ceiling Receptacle	20
21	Glassware Steam	40 A	3			2978...	400 VA			1	20 A	Ceiling Receptacle	22
23	--	--	--					2978...	400 VA	1	20 A	Ceiling Receptacle	24
25	--	--	--	2978...	400 VA					1	20 A	Ceiling Receptacle	26
27	Receptacle	20 A	1			540 VA	400 VA			1	20 A	Ceiling Receptacle	28
29	Receptacle	20 A	2					300 VA	0 VA	--	--	Bussed Space	30
31	--	--	--	300 VA	0 VA					--	--	Bussed Space	32
33	Receptacle	20 A	1			720 VA	0 VA			--	--	Bussed Space	34
35	Receptacle	20 A	2					300 VA	0 VA	--	--	Bussed Space	36
37	--	--	--	300 VA	0 VA					--	--	Bussed Space	38
39	Receptacle	20 A	1			720 VA	0 VA			--	--	Bussed Space	40
41	Receptacle	20 A	1					720 VA	0 VA	--	--	Bussed Space	42
			Total Load:	12863 VA		14063 VA		12863 VA					
			Total Amps:	107 A		117 A		107 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	360 VA	100.00%	360 VA		
Power	28829 VA	100.00%	28829 VA	Total Conn. Load:	39789 VA
Non-Continuous	10600 VA	100.00%	10600 VA	Total Est. Demand:	39789 VA
				Total Conn.:	110 A
				Total Est. Demand:	110 A

Branch Panel: L2F

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	540 VA	400 VA					1	20 A	Cold Room Door/Window Heater	2
3	Receptacle	20 A	1			540 VA	400 VA			1	20 A	Cold Room Door/Window Heater	4
5	Receptacle	20 A	1					180 VA	400 VA	1	20 A	Cold Room Door/Window Heater	6
7	Bio Safety Cab.	20 A	1	500 VA	400 VA					1	20 A	Cold Room Door/Window Heater	8
9	Bio Safety Cab.	20 A	1			500 VA	400 VA			1	20 A	Cold Room Door/Window Heater	10
11	Ceiling Receptacle	20 A	1					400 VA	400 VA	1	20 A	Cold Room Door/Window Heater	12
13	Ceiling Receptacle	20 A	1	400 VA	400 VA					1	20 A	Cold Room Door/Window Heater	14
15	Ceiling Receptacle	20 A	1			400 VA	0 VA			--	--	Bussed Space	16
17	Ceiling Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	2640 VA		2240 VA		1780 VA					
			Total Amps:	23 A		19 A		15 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	180 VA	100.00%	180 VA		
Power	2800 VA	100.00%	2800 VA	Total Conn. Load:	6660 VA
Non-Continuous	3680 VA	100.00%	3680 VA	Total Est. Demand:	6660 VA
				Total Conn.:	18 A
				Total Est. Demand:	18 A

Branch Panel: L2G

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	360 VA	400 VA					1	20 A	Ceiling Receptacle	2
3	Receptacle	20 A	1			540 VA	400 VA			1	20 A	Ceiling Receptacle	4
5	Receptacle	20 A	1					360 VA	300 VA	2	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	2	300 VA	300 VA					--	--	--	8
9	--	--	--			300 VA	400 VA			1	20 A	Ceiling Receptacle	10
11	Fume Hood	20 A	1					400 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	Receptacle	20 A	1	360 VA	300 VA					2	20 A	Ceiling Receptacle	14
15	Receptacle	20 A	2			300 VA	300 VA			--	--	--	16
17	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	18
19	Receptacle	20 A	1	720 VA	400 VA					1	20 A	Ceiling Receptacle	20
21	Receptacle	20 A	1			360 VA	400 VA			1	20 A	Ceiling Receptacle	22
23	Receptacle	20 A	2					1200...	400 VA	1	20 A	Ceiling Receptacle	24
25	--	--	--	1200...	400 VA					1	20 A	Ceiling Receptacle	26
27	Receptacle	20 A	1			720 VA	400 VA			1	20 A	Ceiling Receptacle	28
29	Receptacle	20 A	1					360 VA	400 VA	1	20 A	Ceiling Receptacle	30
31	Receptacle	20 A	1	360 VA	400 VA					1	20 A	Ceiling Receptacle	32
33	Receptacle	20 A	2			300 VA	0 VA			--	--	Bussed Space	34
35	--	--	--					300 VA	0 VA	--	--	Bussed Space	36
37	Receptacle	20 A	1	540 VA	0 VA					--	--	Bussed Space	38
39	Receptacle	20 A	2			300 VA	0 VA			--	--	Bussed Space	40
41	--	--	--					300 VA	0 VA	--	--	Bussed Space	42
			Total Load:	6040 VA		4720 VA		5120 VA					
			Total Amps:	51 A		39 A		43 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	360 VA	100.00%	360 VA		
Power	2800 VA	100.00%	2800 VA	Total Conn. Load:	15880 VA
Non-Continuous	12720 VA	100.00%	12720 VA	Total Est. Demand:	15880 VA
				Total Conn.:	44 A
				Total Est. Demand:	44 A

Branch Panel: L2H

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	720 VA	400 VA					1	20 A	Ceiling Receptacle	2
3	Receptacle	20 A	2			300 VA	400 VA			1	20 A	Ceiling Receptacle	4
5	--	--	--					300 VA	300 VA	2	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	1	720 VA	300 VA					--	--	--	8
9	Receptacle	20 A	2			300 VA	400 VA			1	20 A	Ceiling Receptacle	10
11	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	Receptacle	20 A	1	540 VA	300 VA					2	20 A	Ceiling Receptacle	14
15	Receptacle	20 A	2			300 VA	300 VA			--	--	--	16
17	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	18
19	Receptacle	20 A	1	540 VA	400 VA					1	20 A	Ceiling Receptacle	20
21	Receptacle	20 A	2			300 VA	400 VA			1	20 A	Ceiling Receptacle	22
23	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	Receptacle	20 A	1	720 VA	400 VA					1	20 A	Ceiling Receptacle	26
27	Receptacle	20 A	2			300 VA	400 VA			1	20 A	Ceiling Receptacle	28
29	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	30
31	Receptacle	20 A	1	720 VA	400 VA					1	20 A	Ceiling Receptacle	32
33	Receptacle	20 A	2			300 VA	400 VA			1	20 A	Ceiling Receptacle	34
35	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	36
37	Receptacle	20 A	1	360 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	6520 VA		4100 VA		4100 VA					
			Total Amps:	54 A		34 A		34 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	360 VA	100.00%	360 VA		
Non-Continuous	14360 VA	100.00%	14360 VA	Total Conn. Load:	14720 VA
				Total Est. Demand:	14720 VA
				Total Conn.:	41 A
				Total Est. Demand:	41 A

Branch Panel: L2I

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	360 VA	300 VA					2	20 A	Receptacle	2
3	Receptacle	20 A	1			540 VA	300 VA			--	--	--	4
5	Receptacle	20 A	2					300 VA	540 VA	1	20 A	Receptacle	6
7	--	--	--	300 VA	300 VA					2	20 A	Receptacle	8
9	Receptacle	20 A	2			300 VA	300 VA			--	--	--	10
11	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	Receptacle	20 A	1	540 VA	400 VA					1	20 A	Ceiling Receptacle	14
15	Receptacle	20 A	2			300 VA	300 VA			2	20 A	Ceiling Receptacle	16
17	--	--	--					300 VA	300 VA	--	--	--	18
19	Receptacle	20 A	1	180 VA	400 VA					1	20 A	Ceiling Receptacle	20
21	Receptacle	20 A	1			540 VA	400 VA			1	20 A	Ceiling Receptacle	22
23	Receptacle	20 A	2					300 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	--	--	--	300 VA	400 VA					1	20 A	Ceiling Receptacle	26
27	Receptacle	20 A	1			720 VA	300 VA			2	20 A	Ceiling Receptacle	28
29	Receptacle	20 A	2					300 VA	300 VA	--	--	--	30
31	--	--	--	300 VA	400 VA					1	20 A	Ceiling Receptacle	32
33	Receptacle	20 A	1			720 VA	400 VA			1	20 A	Ceiling Receptacle	34
35	Receptacle	20 A	1					180 VA	400 VA	1	20 A	Ceiling Receptacle	36
37	Receptacle	20 A	1	540 VA	400 VA					1	20 A	Ceiling Receptacle	38
39	Receptacle	20 A	2			300 VA	0 VA			--	--	Bussed Space	40
41	--	--	--					300 VA	0 VA	--	--	Bussed Space	42
			Total Load:	5120 VA		5420 VA		4320 VA					
			Total Amps:	44 A		46 A		36 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	720 VA	100.00%	720 VA		
Non-Continuous	14140 VA	100.00%	14140 VA	Total Conn. Load:	14860 VA
				Total Est. Demand:	14860 VA
				Total Conn.:	41 A
				Total Est. Demand:	41 A

Branch Panel: L2J

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	900 VA	300 VA					2	20 A	Receptacle	2
3	Receptacle	20 A	2			300 VA	300 VA			--	--	--	4
5	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	2	300 VA	400 VA					1	20 A	Ceiling Receptacle	8
9	--	--	--			300 VA	300 VA			2	20 A	Ceiling Receptacle	10
11	Receptacle	20 A	1					900 VA	300 VA	--	--	--	12
13	Receptacle	20 A	1	360 VA	400 VA					1	20 A	Ceiling Receptacle	14
15	Receptacle	20 A	2			300 VA	400 VA			1	20 A	Ceiling Receptacle	16
17	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	18
19	Receptacle	20 A	1	360 VA	400 VA					1	20 A	Ceiling Receptacle	20
21	Receptacle	20 A	1			360 VA	300 VA			2	20 A	Ceiling Receptacle	22
23	Receptacle	20 A	2					300 VA	300 VA	--	--	--	24
25	--	--	--	300 VA	400 VA					1	20 A	Ceiling Receptacle	26
27	Receptacle	20 A	2			300 VA	400 VA			1	20 A	Ceiling Receptacle	28
29	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	30
31	Receptacle	20 A	1	540 VA	400 VA					1	20 A	Ceiling Receptacle	32
33	Receptacle	20 A	1			540 VA	400 VA			1	20 A	Ceiling Receptacle	34
35	Receptacle	20 A	2					300 VA	400 VA	1	20 A	Ceiling Receptacle	36
37	--	--	--	300 VA	300 VA					2	20 A	Ceiling Receptacle	38
39	Receptacle	20 A	2			300 VA	300 VA			--	--	--	40
41	--	--	--					300 VA	0 VA	--	--	Bussed Space	42
			Total Load:	5660 VA		4800 VA		4900 VA					
			Total Amps:	47 A		40 A		41 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Non-Continuous	15360 VA	100.00%	15360 VA		
				Total Conn. Load:	15360 VA
				Total Est. Demand:	15360 VA
				Total Conn.:	43 A
				Total Est. Demand:	43 A



GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title
PANEL SCHEDULES

Sheet No.
2E-506

8/7/2017 3:58:39 PM
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Branch Panel: L2K

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Ceiling Receptacle	20 A	1	400 VA	720 VA		1	20 A	Receptacle	2
3	Ceiling Receptacle	20 A	1		400 VA	300 VA	2	20 A	Receptacle	4
5	Ceiling Receptacle	20 A	1			400 VA	300 VA	--	--	6
7	Ceiling Receptacle	20 A	1	400 VA	300 VA		2	20 A	Receptacle	8
9	Ceiling Receptacle	20 A	2		300 VA	300 VA	--	--	--	10
11	--	--	--			300 VA	300 VA	2	20 A	Receptacle	12
13	Ceiling Receptacle	20 A	1	400 VA	300 VA		--	--	--	14
15	Ceiling Receptacle	20 A	1		400 VA	400 VA	1	20 A	Ceiling Receptacle	16
17	Ceiling Receptacle	20 A	1			400 VA	400 VA	1	20 A	Ceiling Receptacle	18
19	Ceiling Receptacle	20 A	1	400 VA	400 VA		1	20 A	Ceiling Receptacle	20
21	Receptacle	20 A	1		900 VA	400 VA	1	20 A	Ceiling Receptacle	22
23	Receptacle	20 A	1			720 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	Receptacle	20 A	2	300 VA	400 VA		1	20 A	Ceiling Receptacle	26
27	--	--	--		300 VA	400 VA	1	20 A	Ceiling Receptacle	28
29	Receptacle	20 A	1			720 VA	400 VA	1	20 A	Ceiling Receptacle	30
31	Receptacle	20 A	2	300 VA	300 VA		2	20 A	Ceiling Receptacle	32
33	--	--	--		300 VA	300 VA	--	--	--	34
35	Receptacle	20 A	1			360 VA	400 VA	1	20 A	Ceiling Receptacle	36
37	Receptacle	20 A	1	720 VA	400 VA		1	20 A	Ceiling Receptacle	38
39	Receptacle	20 A	2		300 VA	300 VA	2	20 A	Ceiling Receptacle	40
41	--	--	--			300 VA	300 VA	--	--	--	42
			Total Load:	5740 VA	5300 VA	5700 VA				
			Total Amps:	48 A	44 A	48 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	360 VA	100.00%	360 VA		
Non-Continuous	16380 VA	100.00%	16380 VA	**Total Conn. Load:**	16740 VA
				Total Est. Demand:	16740 VA
				Total Conn.:	46 A
				Total Est. Demand:	46 A

Branch Panel: L2L

Location:
Supply From: DP2L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	180 VA	400 VA		1	20 A	Ceiling Receptacle	2
3	Receptacle	20 A	1		900 VA	400 VA	1	20 A	Ceiling Receptacle	4
5	Receptacle	20 A	1			900 VA	400 VA	1	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	1	900 VA	300 VA		2	20 A	Ceiling Receptacle	8
9	Receptacle	20 A	2		300 VA	300 VA	--	--	--	10
11	--	--	--			300 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	Receptacle	20 A	2	300 VA	400 VA		1	20 A	Ceiling Receptacle	14
15	--	--	--		300 VA	300 VA	2	20 A	Ceiling Receptacle	16
17	Receptacle	20 A	1			900 VA	300 VA	--	--	--	18
19	Receptacle	20 A	2	300 VA	400 VA		1	20 A	Ceiling Receptacle	20
21	--	--	--			300 VA	400 VA	1	20 A	Ceiling Receptacle	22
23	Receptacle	20 A	2			300 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	--	--	--	300 VA	400 VA		1	20 A	Ceiling Receptacle	26
27	Receptacle	20 A	2		300 VA	400 VA	1	20 A	Ceiling Receptacle	28
29	--	--	--			300 VA	400 VA	1	20 A	Ceiling Receptacle	30
31	Receptacle	20 A	1	180 VA	0 VA		--	--	Bussed Space	32
33	Ceiling Receptacle	20 A	1			400 VA	0 VA	--	--	Bussed Space	34
35	Ceiling Receptacle	20 A	1				400 VA	0 VA	--	--	Bussed Space	36
37	Ceiling Receptacle	20 A	1	400 VA	0 VA		--	--	Bussed Space	38
39	Ceiling Receptacle	20 A	1			400 VA	0 VA	--	--	Bussed Space	40
41	Ceiling Receptacle	20 A	1				400 VA	0 VA	--	--	Bussed Space	42
			Total Load:	4460 VA	4700 VA	5400 VA				
			Total Amps:	37 A	39 A	45 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	180 VA	100.00%	180 VA		
Non-Continuous	14380 VA	100.00%	14380 VA	**Total Conn. Load:**	14560 VA
				Total Est. Demand:	14560 VA
				Total Conn.:	40 A
				Total Est. Demand:	40 A

Branch Panel: L3A

Location:
Supply From: DP3L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	1080...	400 VA		1	20 A	Ceiling Receptacle	2
3	Receptacle	20 A	2		300 VA	400 VA	1	20 A	Ceiling Receptacle	4
5	--	--	--			300 VA	300 VA	2	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	1	1440...	300 VA		--	--	--	8
9	Receptacle	20 A	2		300 VA	400 VA	1	20 A	Ceiling Receptacle	10
11	--	--	--			300 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	Receptacle	20 A	1	1080...	400 VA		1	20 A	Ceiling Receptacle	14
15	Receptacle	20 A	2		300 VA	400 VA	1	20 A	Ceiling Receptacle	16
17	--	--	--			300 VA	300 VA	2	20 A	Ceiling Receptacle	18
19	Receptacle	20 A	1	1080...	300 VA		--	--	--	20
21	Receptacle	20 A	1		1440...	400 VA	1	20 A	Ceiling Receptacle	22
23	Centrifuge	20 A	2			1200...	400 VA	1	20 A	Ceiling Receptacle	24
25	--	--	--	1200...	540 VA		1	20 A	Receptacle	26
27	Receptacle	20 A	1		1440...	0 VA	--	--	Bussed Space	28
29	Centrifuge	20 A	2			1200...	0 VA	--	--	Bussed Space	30
31	--	--	--	1200...	0 VA		--	--	Bussed Space	32
33	Centrifuge	20 A	2		1200...	0 VA	--	--	Bussed Space	34
35	--	--	--			1200...	0 VA	--	--	Bussed Space	36
37	Centrifuge	20 A	2	1200...	0 VA		--	--	Bussed Space	38
39	--	--	--		1200...	0 VA	--	--	Bussed Space	40
41	Receptacle	20 A	1			720 VA	0 VA	--	--	Bussed Space	42
			Total Load:	10220 VA	7780 VA	6620 VA				
			Total Amps:	87 A	66 A	55 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	540 VA	100.00%	540 VA		
Power	9600 VA	100.00%	9600 VA	**Total Conn. Load:**	24620 VA
Non-Continuous	14480 VA	100.00%	14480 VA	**Total Est. Demand:**	24620 VA
				Total Conn.:	68 A
				Total Est. Demand:	68 A

Branch Panel: L3B

Location:
Supply From: DP3L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	1080...	360 VA		1	20 A	Receptacle	2
3	Receptacle	20 A	1		1080...	1440...	1	20 A	Receptacle	4
5	Receptacle	20 A	1			1080...	300 VA	2	20 A	Receptacle	6
7	Receptacle	20 A	1	1080...	300 VA		--	--	--	8
9	Receptacle	20 A	2			300 VA	360 VA	1	20 A	Receptacle	10
11	--	--	--			300 VA	1800...	1	20 A	Receptacle	12
13	Receptacle	20 A	1	1080...	300 VA		2	20 A	Receptacle	14
15	Receptacle	20 A	2			300 VA	300 VA	--	--	--	16
17	--	--	--			300 VA	400 VA	1	20 A	Receptacle	18
19	Receptacle	20 A	1	1080...	400 VA				1	20 A	Receptacle	20
21	Receptacle	20 A	2			300 VA	300 VA		1	20 A	Receptacle	22
23	--	--	--				300 VA	400 VA	--	--	--	24
25	Ceiling Receptacle	20 A	1	400 VA	400 VA		1	20 A	Receptacle	26
27	Ceiling Receptacle	20 A	1			400 VA	400 VA	1	20 A	Receptacle	28
29	Ceiling Receptacle	20 A	2				300 VA	400 VA	1	20 A	Receptacle	30
31	--	--	--	300 VA	0 VA				--	--	Bussed Space	32
33	Ceiling Receptacle	20 A	1			400 VA	0 VA		--	--	Bussed Space	34
35	Ceiling Receptacle	20 A	1				400 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA				--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA		--	--	Bussed Space	40
41	Bussed Space	--	--				0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	6780 VA	5580 VA	5880 VA				
			Total Amps:	57 A	47 A	49 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	360 VA	100.00%	360 VA		
Non-Continuous	17880 VA	100.00%	17880 VA	**Total Conn. Load:**	18240 VA
				Total Est. Demand:	18240 VA
				Total Conn.:	51 A
				Total Est. Demand:	51 A

Branch Panel: L3C

Location:
Supply From: DP3L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	1080...	400 VA		1	20 A	Receptacle	2
3	Receptacle	20 A	2		300 VA	1400...	2	20 A	Centrifuge	4
5	--	--	--			300 VA	1400...	--	--	6
7	Receptacle	20 A	1	1080...	1400...		2	20 A	Centrifuge	8
9	Receptacle	20 A	1		1080...	1400...	--	--	--	10
11	Receptacle	20 A	2			300 VA	1080...	1	20 A	Receptacle	12
13	--	--	--	300 VA	300 VA		2	20 A	Receptacle	14
15	Receptacle	20 A	1		400 VA	300 VA	--	--	--	16
17	Receptacle	20 A	1			400 VA	1080...	1	20 A	Receptacle	18
19	Receptacle	20 A	1	400 VA	1080...		1	20 A	Receptacle	20
21	Receptacle	20 A	1		400 VA	300 VA	2	20 A	Receptacle	22
23	Receptacle	20 A	1			400 VA	300 VA	--	--	24
25	Receptacle	20 A	1	400 VA	1080...		1	20 A	Receptacle	26
27	Receptacle	20 A	1		400 VA	300 VA	2	20 A	Receptacle	28
29	Receptacle	20 A	1			400 VA	300 VA	--	--	30
31	Receptacle	20 A	1	400 VA	720 VA		1	20 A	Receptacle	32
33	Receptacle	20 A	1		400 VA	0 VA	--	--	Bussed Space	34
35	Receptacle	20 A	1			400 VA	0 VA	--	--	Bussed Space	36
37	Receptacle	20 A	1	400 VA	0 VA		--	--	Bussed Space	38
39	Receptacle	20 A	2		300 VA	0 VA	--	--	Bussed Space	40
41	--	--	--			300 VA	0 VA	--	--	Bussed Space	42
			Total Load:	9040 VA	6980 VA	6660 VA				
			Total Amps:	76 A	59 A	56 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Non-Continuous	22680 VA	100.00%	22680 VA		
				Total Conn. Load:	22680 VA
				Total Est. Demand:	22680 VA
				Total Conn.:	63 A
				Total Est. Demand:	63 A

Branch Panel: L3D

Location:
Supply From: DP3L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	720 VA	1080...		1	20 A	Receptacle	2
3	Receptacle	20 A	1		1080...	400 VA	1	20 A	Receptacle	4
5	Receptacle	20 A	1			1080...	400 VA	1	20 A	Receptacle	6
7	Receptacle	20 A	2	300 VA	400 VA		1	20 A	Receptacle	8
9	--	--	--		300 VA	400 VA	1	20 A	Receptacle	10
11	Receptacle	20 A	1			1440...	1080...	1	20 A	Receptacle	12
13	Receptacle	20 A	1	900 VA	300 VA		2	20 A	Receptacle	14
15	Receptacle	20 A	2		300 VA	300 VA	--	--	--	16
17	--	--	--			300 VA	720 VA	1	20 A	Receptacle	18
19	Receptacle	20 A	2	300 VA	720 VA		1	20 A	Receptacle	20
21	--	--	--		300 VA	720 VA	1	20 A	Receptacle	22
23	Receptacle	20 A	1			360 VA	1440...	1	20 A	Receptacle	24
25	Receptacle	20 A	1	540 VA	0 VA		--	--	Bussed Space	26
27	Receptacle	20 A	1		1080...	0 VA	--	--	Bussed Space	28
29	Receptacle	20 A	1			1080...	0 VA	--	--	Bussed Space	30
31	Receptacle	20 A	1	1080...	0 VA		--	--	Bussed Space	32
33	Receptacle	20 A	2		300 VA	0 VA	--	--	Bussed Space	34
35	--	--	--			300 VA	0 VA	--	--	Bussed Space	36
37	Receptacle	20 A	1	1440...	0 VA		--	--	Bussed Space	38
39	Receptacle	20 A	2			300 VA	0 VA	--	--	Bussed Space	40
41	--	--	--			300 VA	0 VA	--	--	Bussed Space	42
			Total Load:	7780 VA	5480 VA	8500 VA				
			Total Amps:	68 A	46 A	74 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	540 VA	100.00%	540 VA		
Non-Continuous	21220 VA	100.00%	21220 VA	**Total Conn. Load:**	21760 VA
				Total Est. Demand:	21760 VA
				Total Conn.:	60 A
				Total Est. Demand:	60 A

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

PANEL SCHEDULES

Sheet No.

2E-507

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

10/2/2017 10:41:19 AM
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Branch Panel: L3E

Location:
Supply From: DP3L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	360 VA	250 VA		2	20 A	Receptacle	2
3	Receptacle	20 A	1		360 VA	250 VA	--	--	--	4
5	Receptacle	20 A	2			250 VA	540 VA	1	20 A	Receptacle	6
7	--	--	--	250 VA	250 VA		2	20 A	Receptacle	8
9	Receptacle	20 A	1		540 VA	250 VA	--	--	--	10
11	Receptacle	20 A	1			720 VA	720 VA	1	20 A	Receptacle	12
13	Receptacle	20 A	1	540 VA	500 VA		2	20 A	Receptacle	14
15	Receptacle	20 A	1		540 VA	500 VA	--	--	--	16
17	Receptacle	20 A	2			250 VA	360 VA	1	20 A	Receptacle	18
19	--	--	--	250 VA	540 VA			1	20 A	Receptacle	20
21	Receptacle	20 A	1		360 VA	250 VA		2	20 A	Receptacle	22
23	Receptacle	20 A	1			360 VA	250 VA	--	--	--	24
25	Ceiling Receptacle	20 A	1	400 VA	540 VA			1	20 A	Receptacle	26
27	Ceiling Receptacle	20 A	1		400 VA	250 VA		2	20 A	Receptacle	28
29	Ceiling Receptacle	20 A	2			300 VA	250 VA	--	--	--	30
31	--	--	--	300 VA	540 VA			1	20 A	Receptacle	32
33	Ceiling Receptacle	20 A	1		400 VA	250 VA		2	20 A	Receptacle	34
35	Ceiling Receptacle	20 A	1			400 VA	250 VA	--	--	--	36
37	Receptacle	20 A	1	180 VA	0 VA			--	--	Bussed Space	38
39	Receptacle	20 A	1		540 VA	0 VA		--	--	Bussed Space	40
41	Non-Continuous	20 A	1			540 VA	0 VA	--	--	Bussed Space	42
			Total Load:	4900 VA	4890 VA	5190 VA				
			Total Amps:	41 A	41 A	43 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	8280 VA	100.00%	8280 VA	
Non-Continuous	6700 VA	100.00%	6700 VA	**Total Conn. Load:** 14980 VA
				Total Est. Demand: 14980 VA
				Total Conn.: 42 A
				Total Est. Demand: 42 A

Branch Panel: L3F

Location:
Supply From: DP3L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	COLD ROOM DOOR/WINDOW HEATER	20 A	1	400 VA	400 VA		1	20 A	Ceiling Receptacle	2
3	COLD ROOM DOOR/WINDOW HEATER	20 A	1		400 VA	400 VA	1	20 A	Ceiling Receptacle	4
5	Receptacle	20 A	1			540 VA	300 VA	2	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	1	360 VA	300 VA		--	--	--	8
9	Receptacle	20 A	2		250 VA	400 VA		1	20 A	Ceiling Receptacle	10
11	--	--	--			250 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	Receptacle	20 A	2	250 VA	400 VA			1	20 A	Ceiling Receptacle	14
15	--	--	--		250 VA	400 VA		1	20 A	Ceiling Receptacle	16
17	Receptacle	20 A	1			720 VA	400 VA	1	20 A	Ceiling Receptacle	18
19	Receptacle	20 A	1	540 VA	400 VA			1	20 A	Ceiling Receptacle	20
21	Receptacle	20 A	1		180 VA	300 VA		2	20 A	Ceiling Receptacle	22
23	Receptacle	20 A	1			540 VA	300 VA	--	--	--	24
25	Receptacle	20 A	1	720 VA	0 VA			--	--	Bussed Space	26
27	Receptacle	20 A	2		250 VA	0 VA		--	--	Bussed Space	28
29	--	--	--			250 VA	0 VA	--	--	Bussed Space	30
31	Receptacle	20 A	1	540 VA	0 VA			--	--	Bussed Space	32
33	Receptacle	20 A	1		540 VA	0 VA		--	--	Bussed Space	34
35	Receptacle	20 A	2			250 VA	0 VA	--	--	Bussed Space	36
37	--	--	--	250 VA	0 VA			--	--	Bussed Space	38
39	Bussed Space	--	--		0 VA	0 VA		--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	4560 VA	3370 VA	3950 VA				
			Total Amps:	39 A	28 A	34 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	4680 VA	100.00%	4680 VA	
Power	800 VA	100.00%	800 VA	**Total Conn. Load:** 11880 VA
Non-Continuous	6400 VA	100.00%	6400 VA	**Total Est. Demand:** 11880 VA
				Total Conn.: 33 A
				Total Est. Demand: 33 A

Branch Panel: L3G

Location:
Supply From: DP3L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB 2.2
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	720 VA	540 VA		1	20 A	Receptacle	2
3	Centrifuge	20 A	2		1200...	250 VA	2	20 A	Receptacle	4
5	--	--	--			1200...	250 VA	--	--	--	6
7	Centrifuge	20 A	2	1200...	540 VA		1	20 A	Receptacle	8
9	--	--	--		1200...	720 VA	1	20 A	Receptacle	10
11	Centrifuge	20 A	2			1200...	250 VA	2	20 A	Receptacle	12
13	--	--	--	1200...	250 VA		--	--	--	14
15	Refrigerator	20 A	1		400 VA	300 VA	2	20 A	Receptacle	16
17	Receptacle	20 A	1			360 VA	300 VA	--	--	--	18
19	Receptacle	20 A	1	540 VA	300 VA		2	20 A	Receptacle	20
21	Receptacle	20 A	1		540 VA	300 VA	--	--	--	22
23	Receptacle	20 A	2			250 VA	300 VA	2	20 A	Receptacle	24
25	--	--	--	250 VA	300 VA		--	--	--	26
27	Receptacle	20 A	2		250 VA	300 VA	2	20 A	Receptacle	28
29	--	--	--			250 VA	300 VA	--	--	--	30
31	Receptacle	20 A	1	540 VA	0 VA		--	--	Bussed Space	32
33	Receptacle	20 A	2		250 VA	0 VA	--	--	Bussed Space	34
35	--	--	--			250 VA	0 VA	--	--	Bussed Space	36
37	Receptacle	20 A	1	540 VA	0 VA		--	--	Bussed Space	38
39	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	6920 VA	5710 VA	4910 VA				
			Total Amps:	59 A	49 A	41 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	5040 VA	100.00%	5040 VA	
Power	7200 VA	100.00%	7200 VA	**Total Conn. Load:** 17540 VA
Non-Continuous	5300 VA	100.00%	5300 VA	**Total Est. Demand:** 17540 VA
				Total Conn.: 49 A
				Total Est. Demand: 49 A

Branch Panel: L3H

Location:
Supply From: DP3L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB 2.2
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	360 VA	250 VA		2	20 A	Receptacle	2
3	Fume Hood	20 A	1		400 VA	250 VA	--	--	--	4
5	Receptacle	20 A	1			360 VA	250 VA	2	20 A	Receptacle	6
7	Receptacle	20 A	1	720 VA	250 VA		--	--	--	8
9	Receptacle	20 A	2		250 VA	360 VA		1	20 A	Receptacle	10
11	--	--	--			250 VA	540 VA	1	20 A	Receptacle	12
13	Receptacle	20 A	1	720 VA	360 VA			1	20 A	Receptacle	14
15	Receptacle	20 A	1		720 VA	360 VA		1	20 A	Receptacle	16
17	Receptacle	20 A	2			250 VA	540 VA	1	20 A	Receptacle	18
19	--	--	--	250 VA	360 VA			1	20 A	Receptacle	20
21	Receptacle	20 A	1		1080...	540 VA		1	20 A	Receptacle	22
23	Ice Machine	20 A	1			360 VA	540 VA	1	20 A	Receptacle	24
25	Ceiling Receptacle	20 A	1	400 VA	0 VA			--	--	Bussed Space	26
27	Ceiling Receptacle	20 A	1		400 VA	0 VA		--	--	Bussed Space	28
29	Receptacle	20 A	1			540 VA	0 VA	--	--	Bussed Space	30
31	Receptacle	20 A	2	250 VA	0 VA			--	--	Bussed Space	32
33	--	--	--		250 VA	0 VA		--	--	Bussed Space	34
35	Receptacle	20 A	2			250 VA	0 VA	--	--	Bussed Space	36
37	--	--	--	250 VA	0 VA			--	--	Bussed Space	38
39	Receptacle	20 A	1		360 VA	0 VA		--	--	Bussed Space	40
41	Receptacle	20 A	1			540 VA	0 VA	--	--	Bussed Space	42
			Total Load:	4170 VA	4970 VA	4420 VA				
			Total Amps:	35 A	42 A	37 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	9000 VA	100.00%	9000 VA	
Power	400 VA	100.00%	400 VA	**Total Conn. Load:** 13560 VA
Non-Continuous	4160 VA	100.00%	4160 VA	**Total Est. Demand:** 13560 VA
				Total Conn.: 38 A
				Total Est. Demand: 38 A

Branch Panel: L3I

Location:
Supply From: DP3L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB 2.2
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	360 VA	400 VA		1	20 A	Ceiling Receptacle	2
3	Fume Hood	20 A	1		400 VA	400 VA	1	20 A	Ceiling Receptacle	4
5	Receptacle	20 A	1			360 VA	400 VA	1	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	1	540 VA	400 VA		1	20 A	Ceiling Receptacle	8
9	Receptacle	20 A	1		720 VA	400 VA	1	20 A	Ceiling Receptacle	10
11	Receptacle	20 A	2			250 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	--	--	--	250 VA	300 VA		2	20 A	Ceiling Receptacle	14
15	Receptacle	20 A	1		540 VA	300 VA	--	--	--	16
17	Receptacle	20 A	1			360 VA	400 VA	1	20 A	Ceiling Receptacle	18
19	Receptacle	20 A	1	360 VA	400 VA		1	20 A	Ceiling Receptacle	20
21	Bussed Space	--	--		0 VA	400 VA	1	20 A	Ceiling Receptacle	22
23	Bussed Space	--	--			0 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	26
27	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	28
29	Bussed Space	--	--			0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	32
33	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	34
35	Bussed Space	--	--			0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	38
39	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	3010 VA	3160 VA	2570 VA				
			Total Amps:	26 A	27 A	21 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	3240 VA	100.00%	3240 VA	
Power	400 VA	100.00%	400 VA	**Total Conn. Load:** 8740 VA
Non-Continuous	5100 VA	100.00%	5100 VA	**Total Est. Demand:** 8740 VA
				Total Conn.: 24 A
				Total Est. Demand: 24 A

Branch Panel: L3J

Location:
Supply From: DP3L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB 2.2
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	900 VA	400 VA		1	20 A	Ceiling Receptacle	2
3	Receptacle	20 A	1		250 VA	400 VA	1	20 A	Ceiling Receptacle	4
5	--	--	--			250 VA	400 VA	1	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	1	360 VA	400 VA		1	20 A	Ceiling Receptacle	8
9	Receptacle	20 A	1		540 VA	400 VA	1	20 A	Ceiling Receptacle	10
11	Receptacle	20 A	2			250 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	--	--	--	250 VA	400 VA		1	20 A	Ceiling Receptacle	14
15	Receptacle	20 A	1		360 VA	400 VA	1	20 A	Ceiling Receptacle	16
17	Receptacle	20 A	1			180 VA	400 VA	1	20 A	Ceiling Receptacle	18
19	Receptacle	20 A	1	360 VA	400 VA		1	20 A	Ceiling Receptacle	20
21	Ceiling Receptacle	20 A	1		400 VA	300 VA	2	20 A	Ceiling Receptacle	22
23	Ceiling Receptacle	20 A	1			400 VA	300 VA	--	--	--	24
25	Ceiling Receptacle	20 A	2	300 VA	0 VA			--	--	Bussed Space	26
27	--	--	--		300 VA	0 VA		--	--	Bussed Space	28
29	Ceiling Receptacle	20 A	1			400 VA	0 VA	--	--	Bussed Space	30
31	Ceiling Receptacle	20 A	1	400 VA	0 VA			--	--	Bussed Space	32
33	Ceiling Receptacle	20 A	1		400 VA	0 VA		--	--	Bussed Space	34
35	Ceiling Receptacle	20 A	1			400 VA	0 VA	--	--	Bussed Space	36
37	Ceiling Receptacle	20 A	1	400 VA	0 VA			--	--	Bussed Space	38
39	Ceiling Receptacle	20 A	1		400 VA	0 VA		--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	4570 VA	4150 VA	3380 VA				
			Total Amps:	39 A	36 A	28 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	2700 VA	100.00%	2700 VA	
Non-Continuous	9400 VA	100.00%	9400 VA	**Total Conn. Load:** 12100 VA
				Total Est. Demand: 12100 VA
				Total Conn.: 34 A
				Total Est. Demand: 34 A

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title
PANEL
SCHEDULES

Sheet No.
2E-508

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

10/2/2017 10:41:21 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

Branch Panel: L3K

Location:
Supply From: DP3L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	900 VA	400 VA		1	20 A	Ceiling Receptacle	2
3	Receptacle	20 A	2		250 VA	400 VA	1	20 A	Ceiling Receptacle	4
5	--	--	--			250 VA	400 VA	1	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	1	900 VA	400 VA		1	20 A	Ceiling Receptacle	8
9	Receptacle	20 A	1		720 VA	400 VA	1	20 A	Ceiling Receptacle	10
11	Receptacle	20 A	2			250 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	--	--	--	250 VA	400 VA		1	20 A	Ceiling Receptacle	14
15	Receptacle	20 A	1		720 VA	400 VA	1	20 A	Ceiling Receptacle	16
17	Receptacle	20 A	1			900 VA	400 VA	1	20 A	Ceiling Receptacle	18
19	Receptacle	20 A	2	250 VA	400 VA		1	20 A	Ceiling Receptacle	20
21	--	--	--		250 VA	400 VA	1	20 A	Ceiling Receptacle	22
23	Receptacle	20 A	1			360 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	Receptacle	20 A	1	180 VA	300 VA		2	20 A	Ceiling Receptacle	26
27	Receptacle	20 A	1		180 VA	300 VA	--	--	--	28
29	Receptacle	20 A	1			720 VA	400 VA	1	20 A	Ceiling Receptacle	30
31	Receptacle	20 A	1	720 VA	400 VA		1	20 A	Ceiling Receptacle	32
33	Ceiling Receptacle	20 A	1		400 VA	400 VA	1	20 A	Ceiling Receptacle	34
35	Ceiling Receptacle	20 A	1			400 VA	400 VA	1	20 A	Ceiling Receptacle	36
37	Ceiling Receptacle	20 A	2	300 VA	400 VA		1	20 A	Ceiling Receptacle	38
39	--	--	--		300 VA	400 VA	1	20 A	Ceiling Receptacle	40
41	Bussed Space	--	--			0 VA	0 VA	--	--	Bussed Space	42
		Total Load:		6200 VA	5520 VA	5280 VA				
		Total Amps:		52 A	46 A	44 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	6300 VA	100.00%	6300 VA		
Non-Continuous	10700 VA	100.00%	10700 VA	**Total Conn. Load:**	17000 VA
				Total Est. Demand:	17000 VA
				Total Conn.:	47 A
				Total Est. Demand:	47 A

Branch Panel: L4A

Location:
Supply From: DP4L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Convenience Receptacle	20 A	1	180 VA	1000...		1	20 A	Receptacle	2
3	Receptacle	20 A	1			360 VA	720 VA	1	20 A	Receptacle	4
5	Receptacle	20 A	1				540 VA	540 VA	1	20 A	Receptacle	6
7	CENTRIFUGE	20 A	2	1200...	400 VA		1	20 A	Ceiling Receptacle	8
9	--	--	--		1200...	400 VA	1	20 A	Ceiling Receptacle	10
11	CENTRIFUGE	20 A	2			1200...	400 VA	1	20 A	Ceiling Receptacle	12
13	--	--	--	1200...	400 VA		1	20 A	Ceiling Receptacle	14
15	Receptacle	20 A	1		900 VA	300 VA	2	20 A	Ceiling Receptacle	16
17	Receptacle	20 A	2			250 VA	300 VA	--	--	--	18
19	--	--	--	250 VA	300 VA		2	20 A	Ceiling Receptacle	20
21	Receptacle	20 A	2		250 VA	300 VA	--	--	--	22
23	--	--	--			250 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	Receptacle	20 A	1	720 VA	400 VA					
27	Receptacle	20 A	2		250 VA	400 VA				
29	--	--	--			250 VA	400 VA			
31	Receptacle	20 A	1	720 VA	500 VA					
33	Receptacle	20 A	2		250 VA	500 VA				
35	--	--	--			250 VA	500 VA			
37	Receptacle	20 A	1	720 VA	500 VA					
39	Receptacle	20 A	2		250 VA	0 VA				
41	--	--	--			250 VA	0 VA			
		Total Load:		8490 VA	6080 VA	5530 VA				
		Total Amps:		71 A	51 A	46 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	5400 VA	100.00%	5400 VA		
Power	4800 VA	100.00%	4800 VA	**Total Conn. Load:**	20100 VA
Non-Continuous	9900 VA	100.00%	9900 VA	**Total Est. Demand:**	20100 VA
				Total Conn.:	56 A
				Total Est. Demand:	56 A

Branch Panel: L4B

Location:
Supply From: DP4L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Convenience Receptacle	20 A	1	540 VA	250 VA		2	20 A	Receptacle	2
3	Receptacle	20 A	1		720 VA	250 VA	--	--	--	4
5	Receptacle	20 A	1			540 VA	540 VA	1	20 A	Receptacle	6
7	Receptacle	20 A	1	360 VA	720 VA		1	20 A	Receptacle	8
9	Receptacle	20 A	1		900 VA	900 VA	1	20 A	Receptacle	10
11	Receptacle	20 A	1			720 VA	250 VA	2	20 A	Receptacle	12
13	Receptacle	20 A	1	360 VA	250 VA		--	--	--	14
15	Receptacle	20 A	1		900 VA	250 VA	2	20 A	Receptacle	16
17	Receptacle	20 A	1			900 VA	250 VA	--	--	--	18
19	Receptacle	20 A	2	250 VA	250 VA		2	20 A	Receptacle	20
21	--	--	--		250 VA	250 VA	--	--	--	22
23	Receptacle	20 A	2			250 VA	250 VA	2	20 A	Receptacle	24
25	--	--	--	250 VA	250 VA		--	--	--	26
27	Receptacle	20 A	1		900 VA	400 VA	1	20 A	Ceiling Receptacle	28
29	Receptacle	20 A	1			720 VA	400 VA	1	20 A	Ceiling Receptacle	30
31	Receptacle	20 A	2	250 VA	300 VA		2	20 A	Ceiling Receptacle	32
33	--	--	--		250 VA	300 VA	--	--	--	34
35	Receptacle	20 A	2			250 VA	400 VA	1	20 A	Ceiling Receptacle	36
37	--	--	--	250 VA	400 VA		1	20 A	Ceiling Receptacle	38
39	Receptacle	20 A	2		250 VA	400 VA	1	20 A	Ceiling Receptacle	40
41	--	--	--			250 VA	400 VA	1	20 A	Ceiling Receptacle	42
		Total Load:		4680 VA	6920 VA	6120 VA				
		Total Amps:		39 A	60 A	53 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	9720 VA	100.00%	9720 VA		
Non-Continuous	8000 VA	100.00%	8000 VA	**Total Conn. Load:**	17720 VA
				Total Est. Demand:	17720 VA
				Total Conn.:	49 A
				Total Est. Demand:	49 A

Branch Panel: L4C

Location:
Supply From: DP4L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Ceiling Receptacle	20 A	1	400 VA	400 VA		1	20 A	Ceiling Receptacle	2
3	Ceiling Receptacle	20 A	1			400 VA	400 VA	1	20 A	Ceiling Receptacle	4
5	Ceiling Receptacle	20 A	1				400 VA	400 VA	1	20 A	Ceiling Receptacle	6
7	Ceiling Receptacle	20 A	1	400 VA	300 VA					2	20 A	Ceiling Receptacle	8
9	Ceiling Receptacle	20 A	2			300 VA	300 VA	--	--	--	10
11	--	--	--		300 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	Ceiling Receptacle	20 A	1	400 VA	400 VA					1	20 A	Ceiling Receptacle	14
15	Ceiling Receptacle	20 A	1			400 VA	300 VA	2	20 A	Ceiling Receptacle	16
17	Ceiling Receptacle	20 A	1				400 VA	300 VA	--	--	--	18
19	Ceiling Receptacle	20 A	1	400 VA	400 VA					1	20 A	Ceiling Receptacle	20
21	Ceiling Receptacle	20 A	1			400 VA	400 VA	1	20 A	Ceiling Receptacle	22
23	Ceiling Receptacle	20 A	1				400 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	Ceiling Receptacle	20 A	1	400 VA	400 VA					1	20 A	Ceiling Receptacle	26
27	Ceiling Receptacle	20 A	1			400 VA	300 VA	2	20 A	Ceiling Receptacle	28
29	Ceiling Receptacle	20 A	2			300 VA	300 VA	--	--	--	30
31	--	--	--	300 VA	400 VA					1	20 A	Ceiling Receptacle	32
33	Ceiling Receptacle	20 A	1			400 VA	400 VA	1	20 A	Ceiling Receptacle	34
35	Ceiling Receptacle	20 A	1				400 VA	300 VA	2	20 A	Ceiling Receptacle	36
37	Ceiling Receptacle	20 A	1	400 VA	300 VA					--	--	--	38
39	Ceiling Receptacle	20 A	1			400 VA	0 VA	1	20 A	Spare	40
41	Ceiling Receptacle	20 A	1				400 VA	0 VA	1	20 A	Spare	42
		Total Load:		5300 VA	4800 VA	4700 VA				
		Total Amps:		44 A	40 A	39 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Non-Continuous	14800 VA	100.00%	14800 VA		
				Total Conn. Load:	14800 VA
				Total Est. Demand:	14800 VA
				Total Conn.:	41 A
				Total Est. Demand:	41 A

Branch Panel: L4D

Location:
Supply From: DP4L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Ceiling Receptacle	20 A	1	400 VA	250 VA		2	20 A	Receptacle	2
3	Ceiling Receptacle	20 A	1		400 VA	250 VA	--	--	--	4
5	Ceiling Receptacle	20 A	2			300 VA	540 VA	1	20 A	Receptacle	6
7	--	--	--	300 VA	250 VA		2	20 A	Receptacle	8
9	Ceiling Receptacle	20 A	1		400 VA	250 VA	--	--	--	10
11	Ceiling Receptacle	20 A	1			400 VA	720 VA	1	20 A	Receptacle	12
13	Ceiling Receptacle	20 A	1	400 VA	720 VA		1	20 A	Receptacle	14
15	Ceiling Receptacle	20 A	2		300 VA	250 VA	2	20 A	Receptacle	16
17	--	--	--			300 VA	250 VA	--	--	--	18
19	Ceiling Receptacle	20 A	1	400 VA	250 VA		2	20 A	Receptacle	20
21	Ceiling Receptacle	20 A	1		400 VA	250 VA	--	--	--	22
23	Ceiling Receptacle	20 A	1			400 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	Ceiling Receptacle	20 A	1	400 VA	400 VA		1	20 A	Ceiling Receptacle	26
27	Ceiling Receptacle	20 A	1		400 VA	400 VA	1	20 A	Ceiling Receptacle	28
29	Ceiling Receptacle	20 A	1			400 VA	400 VA	1	20 A	Ceiling Receptacle	30
31	Ceiling Receptacle	20 A	2	300 VA	400 VA		1	20 A	Ceiling Receptacle	32
33	--	--	--		300 VA	400 VA	--	--	--	34
35	Receptacle	20 A	1			540 VA	300 VA	2	20 A	Ceiling Receptacle	36
37	Receptacle	20 A	1	540 VA	300 VA		--	--	--	38
39	Receptacle	20 A	1		720 VA	400 VA	1	20 A	Ceiling Receptacle	40
41	Receptacle	20 A	1			540 VA	0 VA	1	20 A	Spare	42
		Total Load:		5310 VA	5120 VA	5490 VA				
		Total Amps:		44 A	43 A	46 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	4320 VA	100.00%	4320 VA		
Non-Continuous	11600 VA	100.00%	11600 VA	**Total Conn. Load:**	15920 VA
				Total Est. Demand:	15920 VA
				Total Conn.:	44 A
				Total Est. Demand:	44 A

Branch Panel: L4E

Location:
Supply From: DP4L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	COLD ROOM DOOR/WINDOW HEATER	20 A	1	400 VA	400 VA		1	20 A	FLOW CYTOMETER	2
3	Receptacle	20 A	1		360 VA	500 VA	1	20 A	FLOW CYTOMETER	4
5	Receptacle	20 A	1			360 VA	400 VA	1	20 A	FLOW CYTOMETER	6
7	Receptacle	20 A	1	540 VA	400 VA		1	20 A	FLOW CYTOMETER	8
9	AUTOMATIC SLIDING DOOR	20 A	1		400 VA	400 VA	1	20 A	FLOW CYTOMETER	10
11	Receptacle	20 A	1			720 VA	400 VA	1	20 A	FLOW CYTOMETER	12
13	Receptacle	20 A	1	720 VA	500 VA		1	20 A	FLOW CYTOMETER	14
15	FLOW CYTOMETER	20 A	1		500 VA	400 VA	1	20 A	FLOW CYTOMETER	16
17	FLOW CYTOMETER	20 A	1			500 VA	400 VA	1	20 A	FLOW CYTOMETER	18
19	FLOW CYTOMETER	20 A	1	500 VA	400 VA		1	20 A	FLOW CYTOMETER	20
21	FLOW CYTOMETER	20 A	1		500 VA	400 VA	1	20 A	FLOW CYTOMETER	22
23	Receptacle	20 A	1			720 VA	400 VA	1	20 A	FLOW CYTOMETER	24
25	Receptacle	20 A	1	720 VA	400 VA		1	20 A	FLOW CYTOMETER	26
27	FLOW CYTOMETER	20 A	1		500 VA	0 VA	--	--	Bussed Space	28
29	Receptacle	20 A	1			900 VA	0 VA	--	--	Bussed Space	30
31	FLOW CYTOMETER	20 A	1	500 VA	0 VA		--	--	Bussed Space	32
33	FLOW CYTOMETER	20 A	1		500 VA	0 VA	--	--	Bussed Space	34
35	Receptacle	20 A	1			540 VA	0 VA	--	--	Bussed Space	36
37	FLOW CYTOMETER	20 A	1	500 VA	0 VA		--	--	Bussed Space	38
39	Receptacle	20 A	1		540 VA	0 VA	--	--	Bussed Space	40
41	Receptacle	20 A	1			720 VA	0 VA	--	--	Bussed Space	42
		Total Load:		5980 VA	5000 VA	6060 VA				
		Total Amps:		51 A	42 A	52 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	6840 VA	100.00%	6840 VA		
Power	800 VA	100.00%	800 VA	**Total Conn. Load:**	17040 VA
Non-Continuous	9400 VA	100.00%	9400 VA	**Total Est. Demand:**	17040 VA
				Total Conn.:	47 A
				Total Est. Demand:	47 A

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title

PANEL SCHEDULES

Sheet No.

2E-509

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

Branch Panel: L4F

Location:
Supply From: DP4L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	1080...	180 VA					1	20 A	Receptacle	2
3	Receptacle	20 A	1			720 VA	720 VA			1	20 A	Receptacle	4
5	Receptacle	20 A	2					300 VA	720 VA	1	20 A	Receptacle	6
7	--	--	--	300 VA	1080...					1	20 A	Non-Continuous	8
9	Receptacle	20 A	2			300 VA	1800...			1	20 A	Non-Continuous	10
11	--	--	--					300 VA	180 VA	1	20 A	Receptacle	12
13	Receptacle	20 A	1	1080...	0 VA					--	--	Bussed Space	14
15	Receptacle	20 A	1			720 VA	0 VA			--	--	Bussed Space	16
17	Receptacle	20 A	2					300 VA	0 VA	--	--	Bussed Space	18
19	--	--	--	300 VA	0 VA					--	--	Bussed Space	20
21	Receptacle	20 A	2			300 VA	0 VA			--	--	Bussed Space	22
23	--	--	--					300 VA	0 VA	--	--	Bussed Space	24
25	Receptacle	20 A	1	180 VA	0 VA					--	--	Bussed Space	26
27	Spare	20 A	1			0 VA	0 VA			--	--	Bussed Space	28
29	Spare	20 A	1					0 VA	0 VA	--	--	Bussed Space	30
31	Spare	20 A	1	0 VA	0 VA					--	--	Bussed Space	32
33	Spare	20 A	1			0 VA	0 VA			--	--	Bussed Space	34
35	Spare	20 A	1					0 VA	0 VA	--	--	Bussed Space	36
37	Spare	20 A	1	0 VA	0 VA					--	--	Bussed Space	38
39	Spare	20 A	1			0 VA	0 VA			--	--	Bussed Space	40
41	Spare	20 A	1					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	4200 VA		4560 VA		2100 VA					
			Total Amps:	38 A		41 A		18 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	540 VA	100.00%	540 VA		
Non-Continuous	10320 VA	100.00%	10320 VA	**Total Conn. Load:**	10860 VA
				Total Est. Demand:	10860 VA
				Total Conn.:	30 A
				Total Est. Demand:	30 A

Branch Panel: L4G

Location:
Supply From: DP4L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	1080...	400 VA					1	20 A	Ceiling Receptacle	2
3	Receptacle	20 A	1			1440...	400 VA			1	20 A	Ceiling Receptacle	4
5	Receptacle	20 A	1					1440...	400 VA	1	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	1	360 VA	300 VA					2	20 A	Ceiling Receptacle	8
9	Receptacle	20 A	1			1260...	300 VA			--	--	--	10
11	Receptacle	20 A	1					1440...	0 VA	--	--	Bussed Space	12
13	FUME HOOD	20 A	1	360 VA	0 VA					--	--	Bussed Space	14
15	Receptacle	20 A	1			720 VA	0 VA			--	--	Bussed Space	16
17	Ceiling Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	18
19	Ceiling Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	20
21	Ceiling Receptacle	20 A	2			300 VA	0 VA			--	--	Bussed Space	22
23	--	--	--					300 VA	0 VA	--	--	Bussed Space	24
25	Ceiling Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	26
27	Ceiling Receptacle	20 A	1			400 VA	0 VA			--	--	Bussed Space	28
29	Ceiling Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	30
31	Ceiling Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	32
33	Receptacle	20 A	1			1080...	0 VA			--	--	Bussed Space	34
35	Receptacle	20 A	1					1080...	0 VA	--	--	Bussed Space	36
37	Receptacle	20 A	1	1080...	0 VA					--	--	Bussed Space	38
39	Receptacle	20 A	1			720 VA	0 VA			--	--	Bussed Space	40
41	Receptacle	20 A	1					1080...	0 VA	--	--	Bussed Space	42
			Total Load:	4780 VA		6620 VA		6540 VA					
			Total Amps:	40 A		57 A		57 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	360 VA	100.00%	360 VA		
Non-Continuous	17580 VA	100.00%	17580 VA	**Total Conn. Load:**	17940 VA
				Total Est. Demand:	17940 VA
				Total Conn.:	50 A
				Total Est. Demand:	50 A

Branch Panel: L4H

Location:
Supply From: DP4L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	1080...	300 VA					2	20 A	Ceiling Receptacle	2
3	Receptacle	20 A	1			1440...	300 VA			--	--	--	4
5	Receptacle	20 A	1					720 VA	1080...	1	20 A	Receptacle	6
7	Receptacle	20 A	1	360 VA	720 VA					1	20 A	Receptacle	8
9	Receptacle	20 A	1			1440...	720 VA			1	20 A	Receptacle	10
11	Receptacle	20 A	2					300 VA	720 VA	1	20 A	Receptacle	12
13	--	--	--	300 VA	1200...					2	20 A	CENTRIFUGE	14
15	Ceiling Receptacle	20 A	1			400 VA	1200...			--	--	--	16
17	Ceiling Receptacle	20 A	1					400 VA	360 VA	1	20 A	Receptacle	18
19	Ceiling Receptacle	20 A	1	400 VA	720 VA					1	20 A	Receptacle	20
21	Ceiling Receptacle	20 A	1			400 VA	720 VA			1	20 A	Receptacle	22
23	Ceiling Receptacle	20 A	2					300 VA	360 VA	1	20 A	Receptacle	24
25	--	--	--	300 VA	400 VA					1	20 A	Ceiling Receptacle	26
27	Ceiling Receptacle	20 A	1			400 VA	400 VA			1	20 A	Ceiling Receptacle	28
29	Ceiling Receptacle	20 A	1					400 VA	400 VA	1	20 A	Ceiling Receptacle	30
31	Ceiling Receptacle	20 A	2	300 VA	1400...					2	20 A	CENTRIFUGE	32
33	--	--	--			300 VA	1400...			--	--	--	34
35	Ceiling Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	36
37	Ceiling Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	38
39	Ceiling Receptacle	20 A	1			400 VA	0 VA			--	--	Bussed Space	40
41	Ceiling Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	42
			Total Load:	7880 VA		9520 VA		5840 VA					
			Total Amps:	68 A		82 A		49 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	2400 VA	100.00%	2400 VA		
Non-Continuous	20840 VA	100.00%	20840 VA	**Total Conn. Load:**	23240 VA
				Total Est. Demand:	23240 VA
				Total Conn.:	65 A
				Total Est. Demand:	65 A

Branch Panel: L4I

Location:
Supply From: DP4L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	1080...	300 VA					2	20 A	Receptacle	2
3	Receptacle	20 A	1			540 VA	300 VA			--	--	--	4
5	FUME HOOD	20 A	1					360 VA	1080...	1	20 A	Receptacle	6
7	Receptacle	20 A	1	720 VA	1080...					1	20 A	Receptacle	8
9	Receptacle	20 A	1			1080...	300 VA			2	20 A	Receptacle	10
11	Receptacle	20 A	1					1080...	300 VA	--	--	--	12
13	ICE MACHINE	20 A	1	360 VA	360 VA					1	20 A	Receptacle	14
15	Receptacle	20 A	1			720 VA	360 VA			1	20 A	Receptacle	16
17	Receptacle	20 A	1					1080...	400 VA	1	20 A	Ceiling Receptacle	18
19	Receptacle	20 A	1	720 VA	400 VA					1	20 A	Ceiling Receptacle	20
21	Receptacle	20 A	1			720 VA	400 VA			1	20 A	Ceiling Receptacle	22
23	Receptacle	20 A	1					720 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	CENTRIFUGE	20 A	2	1200...	400 VA					1	20 A	Ceiling Receptacle	26
27	--	--	--			1200...	400 VA			1	20 A	Ceiling Receptacle	28
29	Receptacle	20 A	1					1440...	0 VA	--	--	Bussed Space	30
31	CENTRIFUGE	20 A	2	1200...	0 VA					--	--	Bussed Space	32
33	--	--	--			1200...	0 VA			--	--	Bussed Space	34
35	Receptacle	20 A	2					300 VA	0 VA	--	--	Bussed Space	36
37	--	--	--	300 VA	0 VA					--	--	Bussed Space	38
39	Receptacle	20 A	2			300 VA	0 VA			--	--	Bussed Space	40
41	--	--	--					300 VA	0 VA	--	--	Bussed Space	42
			Total Load:	8120 VA		7520 VA		7460 VA					
			Total Amps:	68 A		63 A		62 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	5160 VA	100.00%	5160 VA		
Non-Continuous	17940 VA	100.00%	17940 VA	**Total Conn. Load:**	23100 VA
				Total Est. Demand:	23100 VA
				Total Conn.:	64 A
				Total Est. Demand:	64 A

Branch Panel: L4J

Location:
Supply From: DP4L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	1080...	400 VA					1	20 A	Ceiling Receptacle	2
3	Receptacle	20 A	2			300 VA	400 VA			1	20 A	Ceiling Receptacle	4
5	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	1	1440...	400 VA					1	20 A	Ceiling Receptacle	8
9	Receptacle	20 A	2			300 VA	400 VA			1	20 A	Ceiling Receptacle	10
11	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	Receptacle	20 A	1	1080...	400 VA					1	20 A	Ceiling Receptacle	14
15	Receptacle	20 A	1			360 VA	400 VA			1	20 A	Ceiling Receptacle	16
17	Receptacle	20 A	1					720 VA	1400...	2	20 A	Centrifuge	18
19	Receptacle	20 A	1	720 VA	1400...					--	--	--	20
21	Ceiling Receptacle	20 A	1			400 VA	1400...			2	20 A	Centrifuge	22
23	Ceiling Receptacle	20 A	1					400 VA	1400...	--	--	--	24
25	Ceiling Receptacle	20 A	2	300 VA	400 VA					1	20 A	Ceiling Receptacle	26
27	--	--	--			300 VA	400 VA			1	20 A	Ceiling Receptacle	28
29	Ceiling Receptacle	20 A	1					400 VA	300 VA	2	20 A	Ceiling Receptacle	30
31	Ceiling Receptacle	20 A	1	400 VA	300 VA					--	--	--	32
33	Ceiling Receptacle	20 A	2			300 VA	0 VA			--	--	Bussed Space	34
35	--	--	--					300 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	8320 VA		4960 VA		6320 VA					
			Total Amps:	71 A		41 A		54 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Non-Continuous	19600 VA	100.00%	19600 VA		
				Total Conn. Load:	19600 VA
				Total Est. Demand:	19600 VA
				Total Conn.:	54 A
				Total Est. Demand:	54 A

Branch Panel: L4K

Location:
Supply From: DP4L
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	1440...	400 VA					1	20 A	Ceiling Receptacle	2
3	Receptacle	20 A	2			300 VA	400 VA			1	20 A	Ceiling Receptacle	4
5	--	--	--					300 VA	300 VA	2	20 A	Ceiling Receptacle	6
7	Receptacle	20 A	1	1440...	300 VA					--	--	--	8
9	Receptacle	20 A	2			300 VA	400 VA			1	20 A	Ceiling Receptacle	10
11	--	--	--					300 VA	400 VA	1	20 A	Ceiling Receptacle	12
13	Receptacle	20 A	2	300 VA	300 VA					2	20 A	Ceiling Receptacle	14
15	--	--	--			300 VA	300 VA			--	--	--	16
17	Receptacle	20 A	2					300 VA	400 VA	1	20 A	Ceiling Receptacle	18
19	--	--	--	300 VA	400 VA					1	20 A	Ceiling Receptacle	20
21	Receptacle	20 A	1			360 VA	400 VA			1	20 A	Ceiling Receptacle	22
23	Receptacle	20 A	1					720 VA	400 VA	1	20 A	Ceiling Receptacle	24
25	Receptacle	20 A	1	360 VA	400 VA					1	20 A	Ceiling Receptacle	26
27	Receptacle	20 A	1			360 VA	400 VA			1	20 A	Ceiling Receptacle	28
29	Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	30
31	Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	32
33	Receptacle	20 A	1			400 VA	0 VA			--	--	Bussed Space	34
35	Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	36
37	Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	38
39	Receptacle	20 A	1			400 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	6440 VA		4320 VA		3920 VA					
			Total Amps:	54 A		37 A		33 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Non-Continuous	14680 VA	100.00%	14680 VA		
				Total Conn. Load:	14680 VA
				Total Est. Demand:	14680 VA
				Total Conn.:	41 A
				Total Est. Demand:	41 A

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GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title

PANEL SCHEDULES

Sheet No.

2E-510

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

SHEET KEYED NOTES:

1 PROVIDE PROVISIONS FOR SPLIT BUS PANEL PER CEC TITLE 24 REQUIREMENTS.

Branch Panel: P1A

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 25,000
Supply From: DP1P | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	COLD RM	20 A	1	500 VA	180 VA		1	20 A	GEN. BATTERY CHARGER	2
3	COLD RM	20 A	1		500 VA	500 VA	2	20 A	GEN. JACKET HEATER	4
5	Receptacle	20 A	1			900 VA	500 VA	--	--	6
7	Receptacle	20 A	1	1080...	720 VA		1	20 A	OUTDOOR GROUND BOX	8
9	Receptacle	20 A	1		360 VA	720 VA	1	20 A	OUTDOOR GROUND BOX	10
11	FREEZER ROOM DOOR HEATER	20 A	1			400 VA	720 VA	1	20 A	OUTDOOR GROUND BOX	12
13	COLD ROOM DOOR HEATER	20 A	1	400 VA	360 VA		1	20 A	B-EAV-1.1, B-SAV-1.1	14
15	Receptacle	20 A	1			720 VA	720 VA	1	20 A	SFD	16
17	Receptacle	20 A	1				720 VA	720 VA	1	20 A	SFD	18
19	Receptacle	20 A	1	720 VA	600 VA		1	20 A	FACP	20
21	Receptacle	20 A	1			540 VA	360 VA	1	20 A	WAREHOUSE ROOF RECEPTACLE	22
23	Receptacle	20 A	1				360 VA	0 VA	1	20 A	Spare	24
25	Receptacle	20 A	1	360 VA	0 VA		1	20 A	Spare	26
27	SUMP PUMP	20 A	1			400 VA	0 VA	1	20 A	Spare	28
29	Bussed Space	--	--				0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA		1		--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA		--	--	Bussed Space	34
35	Bussed Space	--	--				0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA				--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA		--	--	Bussed Space	40
41	Bussed Space	--	--				0 VA	0 VA	--	--	Bussed Space	42
		Total Load:		4920 VA		4820 VA		4320 VA				
		Total Amps:		42 A		41 A		36 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	9240 VA	100.00%	9240 VA		
Spare	1440 VA	100.00%	1440 VA	**Total Conn. Load:**	14060 VA
Lighting	1000 VA	125.00%	1250 VA	**Total Est. Demand:**	14310 VA
Power	2380 VA	100.00%	2380 VA	**Total Conn.:**	39 A
				Total Est. Demand:	40 A

Branch Panel: P1B

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: DP1P | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 125 A
Enclosure: Type 1 | **MCB Rating:** 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	720 VA	900 VA		1	20 A	Receptacle	2
3	Receptacle	20 A	1			1080...	1080...	1	20 A	Receptacle	4
5	Receptacle	20 A	1				900 VA	720 VA	1	20 A	Receptacle	6
7	Receptacle	20 A	1	1080...	900 VA				1	20 A	Receptacle	8
9	Receptacle	20 A	1			720 VA	900 VA		1	20 A	Receptacle	10
11	Receptacle	20 A	1				720 VA	360 VA	1	20 A	Receptacle	12
13	Receptacle	20 A	1	540 VA	360 VA				1	20 A	Receptacle	14
15	LTG	20 A	1			100 VA	400 VA		1	20 A	SUMP PUMP	16
17	LTG	20 A	1					100 VA	720 VA	1	20 A	SFD	18
19	HOLDING LTG	20 A	1	100 VA	720 VA				1	20 A	SFD	20
21	Receptacle	20 A	1			360 VA	810 VA		1	20 A	RESTROOM FIXTURES	22
23	Receptacle	20 A	1					900 VA	810 VA	1	20 A	RESTROOM FIXTURES	24
25	Receptacle	20 A	1	360 VA	0 VA				1	20 A	Spare	26
27	VAV	20 A	1			540 VA	0 VA		1	20 A	Spare	28
29	B-EAV-1.2, B-SAV-1.2	20 A	1					360 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA				--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA		--	--	Bussed Space	34
35	Bussed Space	--	--				0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA				--	--	Bussed Space	38
39	ATRIUM/CORRIDOR LTG	20 A	1			898 VA	0 VA		--	--	Bussed Space	40
41	Bussed Space	--	--				0 VA	0 VA	--	--	Bussed Space	42
		Total Load:		5680 VA		6888 VA		5590 VA				
		Total Amps:		47 A		58 A		47 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	12780 VA	89.12%	11390 VA		
Spare	2338 VA	100.00%	2338 VA	**Total Conn. Load:**	18158 VA
SYSTEM FURNITURE	720 VA	100.00%	720 VA	**Total Est. Demand:**	16843 VA
Lighting	300 VA	125.00%	375 VA	**Total Conn.:**	50 A
Power	2020 VA	100.00%	2020 VA	**Total Est. Demand:**	47 A

Branch Panel: P1C

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: DP1P | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 125 A
Enclosure: Type 1 | **MCB Rating:** 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	720 VA	180 VA		1	20 A	DISPLAY CASE	2
3	Receptacle	20 A	1		540 VA	180 VA	1	20 A	LOBBY TELEVISION	4
5	CEILING PROJECTOR	20 A	1			180 VA	360 VA	1	20 A	Receptacle	6
7	Receptacle	20 A	1	720 VA	720 VA		1	20 A	Receptacle	8
9	PROJECTOR SCREEN	20 A	1		180 VA	720 VA	1	20 A	Receptacle	10
11	MOTORIZED SHADE	20 A	1			400 VA	0 VA	1	20 A	Spare	12
13	CEILING PROJECTOR	20 A	1	180 VA	0 VA		1	20 A	Spare	14
15	Receptacle	20 A	1		720 VA	0 VA	1	20 A	Spare	16
17	PROJECTOR SCREEN	20 A	1			180 VA	0 VA	1	20 A	Spare	18
19	MOTORIZED SHADE	20 A	1	400 VA	0 VA		1	20 A	Spare	20
21	Receptacle	20 A	1		720 VA	0 VA	1	20 A	Spare	22
23	Receptacle	20 A	1			720 VA	0 VA	--	--	Bussed Space	24
25	Receptacle	20 A	1	720 VA	0 VA				--	--	Bussed Space	26
27	Receptacle	20 A	1		720 VA	0 VA			--	--	Bussed Space	28
29	CEILING PROJECTOR	20 A	1			180 VA	0 VA		--	--	Bussed Space	30
31	CEILING PROJECTOR	20 A	1	180 VA	0 VA				--	--	Bussed Space	32
33	PROJECTOR SCREEN	20 A	1		180 VA	0 VA			--	--	Bussed Space	34
35	PROJECTOR SCREEN	20 A	1			180 VA	0 VA		--	--	Bussed Space	36
37	MOTORIZED SHADE	20 A	1	400 VA	0 VA				--	--	Bussed Space	38
39	FOLDING PARTITION WALL	30 A	1		1680...	0 VA			--	--	Bussed Space	40
41	FOLDING PARTITION WALL	30 A	1			1680...	0 VA		--	--	Bussed Space	42
		Total Load:		4220 VA		5640 VA		3880 VA				
		Total Amps:		36 A		47 A		32 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	9180 VA	100.00%	9180 VA		
Power	4560 VA	100.00%	4560 VA	**Total Conn. Load:**	13740 VA
				Total Est. Demand:	13740 VA
				Total Conn.:	38 A
				Total Est. Demand:	38 A

Branch Panel: P1D

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: DP1P | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 200 A
Enclosure: Type 1 | **MCB Rating:** 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	1260...	1092...		1	20 A	C13 HOT COLD TRANSPORT CART	2
3	CO3 INDUCTION UNIT	20 A	1			1800...	1092...	1	20 A	C13 HOT COLD TRANSPORT CART	4
5	CO3 INDUCTION UNIT	20 A	1				1800...	1092...	1	20 A	C13 HOT COLD TRANSPORT CART	6
7	CO3 INDUCTION UNIT	20 A	1	1800...	1092...				1	20 A	C13 HOT COLD TRANSPORT CART	8
9	CO3 INDUCTION UNIT	20 A	1			1800...	1092...		1	20 A	C13 HOT COLD TRANSPORT CART	10
11	CO3 INDUCTION UNIT	20 A	1					1800...	1152...	1	20 A	C05 DISPENSER	12
13	CO3 INDUCTION UNIT	20 A	1	1800...	300 VA				1	20 A	C06 UNDERCOUNTER REFRIGERATOR	14
15	CO3 INDUCTION UNIT	20 A	1			1800...	400 VA		1	20 A	FREEZER	16
17	CO3 INDUCTION UNIT	20 A	1					1800...	2400...	1	30 A	C08 SODA DISPENSER	18
19	C07 COFFEE BREWER SYSTEM	20 A	2	1352...	1560...				1	20 A	C09 AIR CURTAIN DISPLAY CASE	20
21	--	--	--			1352...	1560...		1	20 A	C09 AIR CURTAIN DISPLAY CASE	22
23	C07 COFFEE BREWER SYSTEM	20 A	2					1352...	1200...	3	150 A	E02 WARE WASHER	24
25	--	--	--	1352...	1200...				--	--	--	--	26
27	C07 COFFEE BREWER SYSTEM	20 A	2			1352...	1200...		--	--	--	--	28
29	--	--	--					1352...	600 VA	1	20 A	C18 FREEZER	30
31	C07 COFFEE BREWER SYSTEM	20 A	2	1352...	0 VA				1	20 A	Spare	32
33	--	--	--			1352...	0 VA		1	20 A	Spare	34
35	C01 ENTREE COUNTER	30 A	1					2200...	0 VA	1	20 A	Spare	36
37	C04 COUNTER	20 A	1	400 VA	0 VA				--	--	Bussed Space	38
39	C01 ENTREE COUNTER	30 A	1			2200...	0 VA		--	--	Bussed Space	40
41	C04 COUNTER	20 A	1					400 VA	0 VA	--	--	Bussed Space	42
		Total Load:		25369 VA		27809 VA		27957 VA				
		Total Amps:		211 A		235 A		236 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment - Non-Dwelling Unit	79875 VA	65.00%	51919 VA		
Receptacle	1260 VA	100.00%	1260 VA	**Total Conn. Load:**	81135 VA
				Total Est. Demand:	53179 VA
				Total Conn.:	225 A
				Total Est. Demand:	148 A

Branch Panel: P1E

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: DP1P | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	540 VA	180 VA		1	20 A	Receptacle	2
3	Receptacle	20 A	1		540 VA	1200...	1	30 A	Receptacle	4
5	Receptacle	20 A	1			540 VA	2400...	1	50 A	Receptacle	6
7	Receptacle	20 A	1	540 VA	400 VA		2	20 A	Receptacle	8
9	Receptacle	20 A	1		180 VA	400 VA	--	--	--	10
11	Receptacle	20 A	2			450 VA	750 VA	2	30 A	Receptacle	12
13	--	--	--	450 VA	750 VA		--	--	--	14
15	Receptacle	20 A	1		180 VA	1250...	2	50 A	Receptacle	16
17	Receptacle	20 A	2			450 VA	1250...	--	--	--	18
19	--	--	--	450 VA	0 VA		1	20 A	Spare	20
21	Receptacle	20 A	1		180 VA	0 VA	1	20 A	Spare	22
23	Receptacle	30 A	2			750 VA	0 VA	1	20 A	Spare	24
25	--	--	--	750 VA	0 VA		1	20 A	Spare	26
27	Receptacle	20 A	1		360 VA	0 VA	1	20 A	Spare	28
29	Receptacle	20 A	1			1080...	0 VA	1	20 A	Spare	30
31	Receptacle	20 A	1	900 VA	0 VA				--	--	Bussed Space	32
33	Receptacle	20 A	1		1260...	0 VA			--	--	Bussed Space	34
35	Receptacle	20 A	1			300 VA	0 VA		--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA				--	--	Bussed Space	38
39	Bussed Space	--	--		0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA	0 VA		--	--	Bussed Space	42
		Total Load:		4960 VA		5550 VA		7970 VA				
		Total Amps:		41 A		47 A		67 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	18480 VA	77.06%	14240 VA		
				Total Conn. Load:	18480 VA
				Total Est. Demand:	14240 VA
				Total Conn.:	51 A
				Total Est. Demand:	40 A

Branch Panel: PM

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: DP1P | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	900 VA	0 VA		1	20 A	Spare	2
3	Receptacle	20 A	1			1080...	0 VA	1	20 A	Spare	4
5	Receptacle	20 A	1				1080...	0 VA	1	20 A	Spare	6
7	IRRIGATION CONTROLLER	20 A	1	300 VA	0 VA				1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Bussed Space	--	--	0 VA	0 VA				--	--	Bussed Space	14
15	Bussed Space	--	--			0 VA	0 VA		--	--	Bussed Space	16
17	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA				--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA		--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA				--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA		--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA				--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA		--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA				--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA		--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
		Total Load:		1200 VA		1080 VA		1080 VA				
		Total Amps:		10 A		9 A		9 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	3060 VA	100.00%	3060 VA		
Power	300 VA	100.00%	300 VA	**Total Conn. Load:**	3360 VA
				Total Est. Demand:	3360 VA
				Total Conn.:	9 A
				Total Est. Demand:	9 A

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GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
PANEL SCHEDULES

Sheet No.
2E-511

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

SHEET KEYED NOTES:

1 PROVIDE PROVISIONS FOR SPLIT BUS PANEL PER CEC TITLE 24 REQUIREMENTS.

Branch Panel: P2A

Location:
Supply From: DP1P
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 125 A
MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	900 VA	540 VA		1	20 A	Receptacle	2
3	Receptacle	20 A	1		540 VA	540 VA	1	20 A	Receptacle	4
5	Receptacle	20 A	1			1080... 400 VA	1	20 A	REFRIGERATOR	6
7	PRINTER	20 A	1	300 VA	400 VA		1	20 A	REFRIGERATOR	8
9	Receptacle	20 A	1		720 VA	800 VA	1	20 A	MICROWAVE	10
11	SYSTEM FURNITURE	20 A	1			720 VA 800 VA	1	20 A	MICROWAVE	12
13	SYSTEM FURNITURE	20 A	1	720 VA	180 VA		1	20 A	Receptacle	14
15	SYSTEM FURNITURE	20 A	1		720 VA	180 VA	1	20 A	GARBAGE DISPOSAL	16
17	SYSTEM FURNITURE	20 A	1			720 VA 180 VA	1	20 A	Receptacle	18
19	SYSTEM FURNITURE	20 A	1	720 VA	720 VA		1	20 A	Receptacle	20
21	SYSTEM FURNITURE	20 A	1		720 VA	400 VA	1	20 A	REFRIGERATOR	22
23	Receptacle	20 A	1			540 VA 360 VA	1	20 A	Receptacle	24
25	ELEV SMOKE CURTAIN	20 A	1	400 VA	180 VA		1	20 A	COLD ROOM	26
27	VAV	20 A	1		360 VA	0 VA	1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	32
33	Spare	20 A	1		0 VA	0 VA	--	--	Bussed Space	34
35	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	38
39	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	42
			Total Load:	5060 VA	4980 VA	4800 VA				
			Total Amps:	42 A	42 A	40 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment - Non-Dwelling Unit	2800 VA	70.00%	1960 VA		
Receptacle	7320 VA	100.00%	7320 VA	**Total Conn. Load:**	14840 VA
SYSTEM FURNITURE	4320 VA	100.00%	4320 VA	**Total Est. Demand:**	14000 VA
Power	400 VA	100.00%	400 VA	**Total Conn.:**	41 A
				Total Est. Demand:	39 A

Branch Panel: P2B

Location:
Supply From: DP1P
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 125 A
MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	1080...	900 VA		1	20 A	Receptacle	2
3	Receptacle	20 A	1		1080...	1080...	1	20 A	Receptacle	4
5	Receptacle	20 A	1			720 VA 540 VA	1	20 A	Receptacle	6
7	Receptacle	20 A	1	360 VA	540 VA		1	20 A	Receptacle	8
9	B-EAV-2.3, B-SAV-2.3	20 A	1		360 VA	180 VA	1	20 A	WATER FOUNTAIN	10
11	B-EAV-2.1,B-EAV-2.2,B-SAV-2.1,B-SAV-2.2	20 A	1			720 VA 630 VA	1	20 A	RESTROOM FIXTURES	12
13	SFD	20 A	1	720 VA	630 VA		1	20 A	RESTROOM FIXTURES	14
15	SFD	20 A	1		720 VA	0 VA	1	20 A	Spare	16
17	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	20
21	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	22
23	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	26
27	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	28
29	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	32
33	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	34
35	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	38
39	ATRIUM LTG	20 A	1		126 VA	0 VA	--	--	Bussed Space	40
41	THEATRICAL LIGHTING	20 A	1			759 VA 0 VA	--	--	Bussed Space	42
			Total Load:	4230 VA	3546 VA	3369 VA				
			Total Amps:	35 A	30 A	28 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	7560 VA	100.00%	7560 VA		
Spare	1566 VA	100.00%	1566 VA	**Total Conn. Load:**	11145 VA
Lighting	759 VA	125.00%	949 VA	**Total Est. Demand:**	11335 VA
Power	1260 VA	100.00%	1260 VA	**Total Conn.:**	31 A
				Total Est. Demand:	31 A

Branch Panel: P2C

Location:
Supply From: DP1P
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 125 A
MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	360 VA	0 VA		1	20 A	Spare	2
3	Receptacle	20 A	1		900 VA	0 VA	1	20 A	Spare	4
5	Receptacle	20 A	1			540 VA 0 VA	1	20 A	Spare	6
7	Receptacle	20 A	1	900 VA	0 VA		1	20 A	Spare	8
9	Receptacle	20 A	1		720 VA	0 VA	1	20 A	Spare	10
11	PRINTER	20 A	1			300 VA 0 VA	1	20 A	Spare	12
13	SYSTEM FURNITURE	20 A	1	720 VA	0 VA		--	--	Bussed Space	14
15	SYSTEM FURNITURE	20 A	1		720 VA	0 VA	--	--	Bussed Space	16
17	SYSTEM FURNITURE	20 A	1			720 VA 0 VA	--	--	Bussed Space	18
19	SYSTEM FURNITURE	20 A	1	720 VA	0 VA		--	--	Bussed Space	20
21	SYSTEM FURNITURE	20 A	1		720 VA	0 VA	--	--	Bussed Space	22
23	SYSTEM FURNITURE	20 A	1			720 VA 0 VA	--	--	Bussed Space	24
25	Receptacle	20 A	1	360 VA	0 VA		--	--	Bussed Space	26
27	Receptacle	20 A	1		360 VA	0 VA	--	--	Bussed Space	28
29	Receptacle	20 A	1			540 VA 0 VA	--	--	Bussed Space	30
31	Receptacle	20 A	1	720 VA	0 VA		--	--	Bussed Space	32
33	Spare	20 A	1		0 VA	0 VA	--	--	Bussed Space	34
35	Spare	20 A	1			0 VA 0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	38
39	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	42
			Total Load:	3780 VA	3420 VA	2820 VA				
			Total Amps:	32 A	29 A	24 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	5700 VA	100.00%	5700 VA		
SYSTEM FURNITURE	4320 VA	100.00%	4320 VA	**Total Conn. Load:**	10020 VA
				Total Est. Demand:	10020 VA
				Total Conn.:	28 A
				Total Est. Demand:	28 A

Branch Panel: P3A

Location:
Supply From: DP3P
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	SYSTEM FURNITURE	20 A	1	720 VA	900 VA		1	20 A	Receptacle	2
3	SYSTEM FURNITURE	20 A	1		900 VA	540 VA	1	20 A	Receptacle	4
5	SYSTEM FURNITURE	20 A	1			720 VA 720 VA	1	20 A	Receptacle	6
7	SYSTEM FURNITURE	20 A	1	720 VA	300 VA		1	20 A	Receptacle	8
9	Receptacle	20 A	1		900 VA	360 VA	1	20 A	Receptacle	10
11	Receptacle	20 A	1			900 VA 720 VA	1	20 A	SYSTEM FURNITURE	12
13	UNDER COUNTER REFRIGERATOR	20 A	1	400 VA	720 VA		1	20 A	SYSTEM FURNITURE	14
15	Receptacle	20 A	1		540 VA	720 VA	1	20 A	SYSTEM FURNITURE	16
17	Receptacle	20 A	1			1080... 720 VA	1	20 A	SYSTEM FURNITURE	18
19	Kitchen Equipment - Non-Dwelling Unit	20 A	1	400 VA	720 VA		1	20 A	SYSTEM FURNITURE	20
21	Kitchen Equipment - Non-Dwelling Unit	20 A	1		400 VA	720 VA	1	20 A	SYSTEM FURNITURE	22
23	Kitchen Equipment - Non-Dwelling Unit	20 A	1			400 VA 400 VA	1	20 A	ELEV SMOKE CURTAIN	24
25	Kitchen Equipment - Non-Dwelling Unit	20 A	1	400 VA	540 VA		1	20 A	Receptacle	26
27	Receptacle	20 A	1		180 VA	540 VA	1	20 A	Receptacle	28
29	GARBAGE DISPOSAL	20 A	1			180 VA 500 VA	1	20 A	COLD ROOM	30
31	Receptacle	20 A	1	180 VA	500 VA		1	20 A	COLD ROOM	32
33	Receptacle	20 A	1		1080...	0 VA	1	20 A	Spare	34
35	VAV	20 A	1			180 VA 0 VA	1	20 A	Spare	36
37	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	38
39	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	42
			Total Load:	6500 VA	6880 VA	6520 VA				
			Total Amps:	54 A	57 A	54 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment - Non-Dwelling Unit	2000 VA	70.00%	1400 VA		
Receptacle	9300 VA	100.00%	9300 VA	**Total Conn. Load:**	19900 VA
SYSTEM FURNITURE	7200 VA	100.00%	7200 VA	**Total Est. Demand:**	19550 VA
Lighting	1000 VA	125.00%	1250 VA	**Total Conn.:**	55 A
Power	400 VA	100.00%	400 VA	**Total Est. Demand:**	54 A

Branch Panel: P3B

Location:
Supply From: DP3P
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	540 VA	540 VA		1	20 A	Receptacle	2
3	B-EAV-3.3,B-EAV-3.4,B-SAV-3.3,B-SAV-3.4	20 A	1		720 VA	1260....	1	20 A	Receptacle	4
5	B-EAV-3.1,B-EAV-3.2,B-SAV-3.1,B-SAV-3.2	20 A	1			720 VA 1080...	1	20 A	Receptacle	6
7	SFD	20 A	1	720 VA	180 VA		1	20 A	WATER FOUNTAIN	8
9	SFD	20 A	1		720 VA	630 VA	1	20 A	RESTROOM FIXTURES	10
11	SFD	20 A	1			720 VA 630 VA	1	20 A	RESTROOM FIXTURES	12
13	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	14
15	Bussed Space	--	--		0 VA	0 VA	1	20 A	Spare	16
17	Bussed Space	--	--			0 VA 0 VA	1	20 A	Spare	18
19	Bussed Space	--	--	0 VA	0 VA		1	20 A	Spare	20
21	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	22
23	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	26
27	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	28
29	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	32
33	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	34
35	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	38
39	ATRIUM LTG	20 A	1	300 VA	0 VA		--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	42
			Total Load:	1980 VA	3630 VA	3150 VA				
			Total Amps:	17 A	32 A	28 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	5040 VA	100.00%	5040 VA		
Spare	2460 VA	100.00%	2460 VA	**Total Conn. Load:**	8760 VA
Power	1260 VA	100.00%	1260 VA	**Total Est. Demand:**	8760 VA
				Total Conn.:	24 A
				Total Est. Demand:	24 A

Branch Panel: P3C

Location:
Supply From: DP3P
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	900 VA	0 VA		1	20 A	Spare	2
3	Receptacle	20 A	1		900 VA	0 VA	1	20 A	Spare	4
5	Receptacle	20 A	1			540 VA 0 VA	1	20 A	Spare	6
7	Receptacle	20 A	1	900 VA	0 VA		1	20 A	Spare	8
9	Receptacle	20 A	1		360 VA	0 VA	1	20 A	Spare	10
11	SYSTEM FURNITURE	20 A	1			720 VA 0 VA	1	20 A	Spare	12
13	SYSTEM FURNITURE	20 A	1	720 VA	0 VA		1	20 A	Spare	14
15	SYSTEM FURNITURE	20 A	1		900 VA	0 VA	1	20 A	Spare	16
17	SYSTEM FURNITURE	20 A	1			720 VA 0 VA	1	20 A	Spare	18
19	SYSTEM FURNITURE	20 A	1	720 VA	0 VA		--	--	Bussed Space	20
21	SYSTEM FURNITURE	20 A	1		900 VA	0 VA	--	--	Bussed Space	22
23	Receptacle	20 A	1			360 VA 0 VA	--	--	Bussed Space	24
25	Receptacle	20 A	1	360 VA	0 VA		--	--	Bussed Space	26
27	Spare	20 A	1		0 VA	0 VA	--	--	Bussed Space	28
29	Spare	20 A	1			0 VA 0 VA	--	--	Bussed Space	30
31	Spare	20 A	1	0 VA	0 VA		--	--	Bussed Space	32
33	Spare	20 A	1		0 VA	0 VA	--	--	Bussed Space	34
35	Spare	20 A	1			0 VA 0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	38
39	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	42
			Total Load:	3600 VA	3060 VA	2340 VA				
			Total Amps:	31 A	26 A	20 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	4680 VA	100.00%	4680 VA		
SYSTEM FURNITURE	4320 VA	100.00%	4320 VA	**Total Conn. Load:**	9000 VA
				Total Est. Demand:	9000 VA
				Total Conn.:	25 A
				Total Est. Demand:	25 A

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GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
PANEL SCHEDULES

Sheet No.
2E-512

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

SHEET KEYED NOTES:

1 PROVIDE PROVISIONS FOR SPLIT BUS PANEL PER CEC TITLE 24 REQUIREMENTS.

Branch Panel: P4A

Location:
Supply From: DP3P
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	720 VA	720 VA					1	20 A	SYSTEM FURNITURE	2
3	REFRIGERATOR	20 A	1			400 VA	720 VA			1	20 A	SYSTEM FURNITURE	4
5	REFRIGERATOR	20 A	1					400 VA	720 VA	1	20 A	SYSTEM FURNITURE	6
7	MICROWAVE	20 A	1	800 VA	720 VA					1	20 A	SYSTEM FURNITURE	8
9	MICROWAVE	20 A	1			800 VA	720 VA			1	20 A	SYSTEM FURNITURE	10
11	Receptacle	20 A	1					180 VA	720 VA	1	20 A	SYSTEM FURNITURE	12
13	GARBAGE DISPOSAL	20 A	1	180 VA	720 VA					1	20 A	SYSTEM FURNITURE	14
15	Receptacle	20 A	1			180 VA	540 VA			1	20 A	Receptacle	16
17	Receptacle	20 A	1					180 VA	500 VA	1	20 A	COLD ROOM	18
19	Receptacle	20 A	1	1080...	0 VA					1	20 A	Spare	20
21	ELEV. SMOKE CURTAIN	20 A	1			400 VA	0 VA			1	20 A	Spare	22
23	Receptacle	20 A	1					720 VA	0 VA	1	20 A	Spare	24
25	Receptacle	20 A	1	1080...	0 VA					1	20 A	Spare	26
27	Receptacle	20 A	1			540 VA	0 VA			1	20 A	Spare	28
29	Receptacle	20 A	1					900 VA	0 VA	1	20 A	Spare	30
31	Receptacle	20 A	1	900 VA	0 VA					--	--	Bussed Space	32
33	Receptacle	20 A	1			900 VA	0 VA			--	--	Bussed Space	34
35	SYSTEM FURNITURE	20 A	1					720 VA	0 VA	--	--	Bussed Space	36
37	SYSTEM FURNITURE	20 A	1	720 VA	0 VA					--	--	Bussed Space	38
39	SYSTEM FURNITURE	20 A	1			720 VA	0 VA			--	--	Bussed Space	40
41	Receptacle	20 A	1					300 VA	0 VA	--	--	Bussed Space	42
		Total Load:		7640 VA		5920 VA		5340 VA					
		Total Amps:		64 A		50 A		45 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment - Non-Dwelling Unit	2400 VA	80.00%	1920 VA		
Receptacle	8400 VA	100.00%	8400 VA	**Total Conn. Load:**	18900 VA
SYSTEM FURNITURE	7200 VA	100.00%	7200 VA	**Total Est. Demand:**	18545 VA
Lighting	500 VA	125.00%	625 VA	**Total Conn.:**	52 A
Power	400 VA	100.00%	400 VA	**Total Est. Demand:**	51 A

Branch Panel: P4B

Location:
Supply From: DP3P
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	720 VA	720 VA					1	20 A	Receptacle	2
3	Receptacle	20 A	1			720 VA	900 VA			1	20 A	Receptacle	4
5	Receptacle	20 A	1					360 VA	1080...	1	20 A	Receptacle	6
7	B-EAV-4.3,B-EAV-4.4,B-SAV-4.3,B-SAV-4.4	20 A	1	720 VA	900 VA					1	20 A	Receptacle	8
9	B-EAV-4.1,B-EAV-4.2,B-SAV-4.1,B-SAV-4.2	20 A	1			720 VA	540 VA			1	20 A	Receptacle	10
11	SFD	20 A	1					720 VA	180 VA	1	20 A	Receptacle	12
13	SFD	20 A	1	720 VA	630 VA					1	20 A	RESTROOM FIXTURES	14
15	Spare	20 A	1			0 VA	630 VA			1	20 A	RESTROOM FIXTURES	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	ATRIUM LTG	20 A	1			400 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
		Total Load:		4410 VA		3910 VA		2340 VA					
		Total Amps:		39 A		35 A		20 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	7560 VA	100.00%	7560 VA		
Spare	1840 VA	100.00%	1840 VA	**Total Conn. Load:**	10660 VA
Power	1260 VA	100.00%	1260 VA	**Total Est. Demand:**	10660 VA
				Total Conn.:	30 A
				Total Est. Demand:	30 A

Branch Panel: P4C

Location:
Supply From: DP3P
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	900 VA	180 VA					1	20 A	PRINTER	2
3	Receptacle	20 A	1			900 VA	720 VA			1	20 A	SYSTEM FURNITURE	4
5	Receptacle	20 A	1					540 VA	720 VA	1	20 A	SYSTEM FURNITURE	6
7	Receptacle	20 A	1	540 VA	720 VA					1	20 A	SYSTEM FURNITURE	8
9	SYSTEM FURNITURE	20 A	1			720 VA	720 VA			1	20 A	SYSTEM FURNITURE	10
11	SYSTEM FURNITURE	20 A	1					720 VA	720 VA	1	20 A	SYSTEM FURNITURE	12
13	SYSTEM FURNITURE	20 A	1	720 VA	720 VA					1	20 A	SYSTEM FURNITURE	14
15	SYSTEM FURNITURE	20 A	1			720 VA	180 VA			1	20 A	Receptacle	16
17	PRINTER	20 A	1					300 VA	720 VA	1	20 A	Receptacle	18
19	Receptacle	20 A	1	180 VA	900 VA					1	20 A	Receptacle	20
21	Receptacle	20 A	1			180 VA	540 VA			1	20 A	Receptacle	22
23	GARBAGE DISPOSAL	20 A	1					180 VA	360 VA	1	20 A	Receptacle	24
25	Receptacle	20 A	1	180 VA	0 VA					1	20 A	Spare	26
27	Receptacle	20 A	1			360 VA	0 VA			1	20 A	Spare	28
29	Receptacle	20 A	1					720 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
		Total Load:		5040 VA		5040 VA		4980 VA					
		Total Amps:		42 A		42 A		42 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	7860 VA	100.00%	7860 VA		
SYSTEM FURNITURE	7200 VA	100.00%	7200 VA	**Total Conn. Load:**	15060 VA
				Total Est. Demand:	15060 VA
				Total Conn.:	42 A
				Total Est. Demand:	42 A

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GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
PANEL SCHEDULES

Sheet No.
2E-513

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

SHEET KEYED NOTES:

1 PROVIDE PROVISIONS FOR SPLIT BUS PANEL PER CEC TITLE 24 REQUIREMENTS.

Branch Panel: EP1

Location:
Supply From: EPDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Freezer	20 A	1	180 VA	0 VA					1	20 A	Spare	2
3	Chest Freezer	20 A	1			180 VA	0 VA			1	20 A	Spare	4
5	Ventilated Rack	20 A	1					400 VA	0 VA	1	20 A	Spare	6
7	Ventilated Rack	20 A	1	400 VA	0 VA					1	20 A	Spare	8
9	Ventilated Rack	20 A	1			400 VA	0 VA			1	20 A	Spare	10
11	Ventilated Rack	20 A	1					400 VA	0 VA	1	20 A	Spare	12
13	Ventilated Rack	20 A	1	400 VA	0 VA					--	--	Bussed Space	14
15	Ventilated Rack	20 A	1			400 VA	0 VA			--	--	Bussed Space	16
17	Ventilated Rack	20 A	1					400 VA	0 VA	--	--	Bussed Space	18
19	Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	20
21	Receptacle	20 A	1			400 VA	0 VA			--	--	Bussed Space	22
23	Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	24
25	Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	26
27	Receptacle	20 A	1			720 VA	0 VA			--	--	Bussed Space	28
29	Receptacle	20 A	1					720 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	ATRIUM/CORRIDOR LTG	20 A	1			252 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	1780 VA		2352 VA		2320 VA					
			Total Amps:	15 A		20 A		20 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1800 VA	100.00%	1800 VA		
Spare	252 VA	100.00%	252 VA	**Total Conn. Load:**	6452 VA
Power	4400 VA	100.00%	4400 VA	**Total Est. Demand:**	6452 VA
				Total Conn.:	18 A
				Total Est. Demand:	18 A

Branch Panel: ET1

Location:
Supply From: EPDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	360 VA	0 VA					1	20 A	Spare	2
3	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	4
5	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	6
7	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	8
9	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	10
11	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	12
13	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	14
15	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	16
17	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	360 VA		0 VA		0 VA					
			Total Amps:	3 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	360 VA	100.00%	360 VA		
				Total Conn. Load:	360 VA
				Total Est. Demand:	360 VA
				Total Conn.:	1 A
				Total Est. Demand:	1 A

Branch Panel: EP2A

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Refrigerator	20 A	1	400 VA	400 VA					1	20 A	Refrigerator	2
3	Refrigerator	20 A	1			400 VA	500 VA			1	20 A	-20 Freezer	4
5	Refrigerator	20 A	1					400 VA	0 VA	--	--	Bussed Space	6
7	Refrigerator	20 A	1	400 VA	0 VA					--	--	Bussed Space	8
9	-80 Freezer	20 A	2			250 VA	0 VA			--	--	Bussed Space	10
11	--	--	--					250 VA	0 VA	--	--	Bussed Space	12
13	-20 Freezer	20 A	1	500 VA	0 VA					--	--	Bussed Space	14
15	-20 Freezer	20 A	1			500 VA	0 VA			--	--	Bussed Space	16
17	Refrigerator	20 A	1					180 VA	0 VA	--	--	Bussed Space	18
19	Refrigerator	20 A	1	180 VA	0 VA					--	--	Bussed Space	20
21	Refrigerator	20 A	1			180 VA	0 VA			--	--	Bussed Space	22
23	Refrigerator	20 A	1					180 VA	0 VA	--	--	Bussed Space	24
25	Ceiling Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	26
27	Ceiling Receptacle	20 A	1			400 VA	0 VA			--	--	Bussed Space	28
29	Ceiling Receptacle	20 A	1					400 VA	0 VA	--	--	Bussed Space	30
31	Ceiling Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	32
33	Centrifuge	20 A	2			1200...	0 VA			--	--	Bussed Space	34
35	--	--	--					1200...	0 VA	--	--	Bussed Space	36
37	Refrigerator	20 A	1	400 VA	0 VA					--	--	Bussed Space	38
39	Refrigerator	20 A	1			400 VA	0 VA			--	--	Bussed Space	40
41	Refrigerator	20 A	1					400 VA	0 VA	--	--	Bussed Space	42
			Total Load:	3080 VA		3830 VA		3010 VA					
			Total Amps:	26 A		32 A		25 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	2400 VA	100.00%	2400 VA		
Non-Continuous	7520 VA	100.00%	7520 VA	**Total Conn. Load:**	9920 VA
				Total Est. Demand:	9920 VA
				Total Conn.:	28 A
				Total Est. Demand:	28 A

Branch Panel: EP2B

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	2	832 VA	900 VA					1	20 A	Receptacle	2
3	--	--	--			832 VA	900 VA			1	20 A	Receptacle	4
5	-80 Freezer	20 A	2					832 VA	900 VA	1	20 A	Receptacle	6
7	--	--	--	832 VA	900 VA					1	20 A	Receptacle	8
9	-80 Freezer	20 A	2			832 VA	900 VA			1	20 A	Receptacle	10
11	--	--	--					832 VA	900 VA	1	20 A	Receptacle	12
13	-20 Freezer	20 A	2	832 VA	900 VA					1	20 A	Receptacle	14
15	--	--	--			832 VA	900 VA			1	20 A	Receptacle	16
17	-20 Freezer	20 A	2					832 VA	800 VA	1	20 A	COLD ROOM EVAPORATOR	18
19	--	--	--	832 VA	720 VA					1	20 A	L-EAV-2.1,L-EAV-2.2, L-SAV-2.1,L-SAV-2.2	20
21	-20 Freezer	20 A	2			832 VA	0 VA			--	--	Bussed Space	22
23	--	--	--					832 VA	0 VA	--	--	Bussed Space	24
25	-20 Freezer	20 A	2	832 VA	0 VA					--	--	Bussed Space	26
27	--	--	--			832 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	7580 VA		6860 VA		5928 VA					
			Total Amps:	64 A		58 A		49 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	7920 VA	100.00%	7920 VA		
Power	800 VA	100.00%	800 VA	**Total Conn. Load:**	20368 VA
Non-Continuous	11648 VA	100.00%	11648 VA	**Total Est. Demand:**	20368 VA
				Total Conn.:	57 A
				Total Est. Demand:	57 A

Branch Panel: EP2C

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Refrigerator	20 A	1	400 VA	400 VA					1	20 A	Refrigerator	2
3	Refrigerator	20 A	1			400 VA	400 VA			1	20 A	Refrigerator	4
5	Refrigerator	20 A	1					400 VA	400 VA	1	20 A	Refrigerator	6
7	Refrigerator	20 A	1	400 VA	400 VA					1	20 A	Refrigerator	8
9	Refrigerator	20 A	1			400 VA	0 VA			--	--	Bussed Space	10
11	-20 Freezer	20 A	2					832 VA	0 VA	--	--	Bussed Space	12
13	--	--	--	832 VA	0 VA					--	--	Bussed Space	14
15	-20 Freezer	20 A	2			832 VA	0 VA			--	--	Bussed Space	16
17	--	--	--					832 VA	0 VA	--	--	Bussed Space	18
19	-20 Freezer	20 A	2	832 VA	0 VA					--	--	Bussed Space	20
21	--	--	--			832 VA	0 VA			--	--	Bussed Space	22
23	Refrigerator	20 A	1					400 VA	0 VA	--	--	Bussed Space	24
25	Refrigerator	20 A	1	400 VA	0 VA					--	--	Bussed Space	26
27	Refrigerator	20 A	1			400 VA	0 VA			--	--	Bussed Space	28
29	Refrigerator	20 A	1					400 VA	0 VA	--	--	Bussed Space	30
31	Refrigerator	20 A	1	400 VA	0 VA					--	--	Bussed Space	32
33	-20 Freezer	20 A	2			832 VA	0 VA			--	--	Bussed Space	34
35	--	--	--					832 VA	0 VA	--	--	Bussed Space	36
37	-20 Freezer	20 A	2	832 VA	0 VA					--	--	Bussed Space	38
39	--	--	--			832 VA	0 VA			--	--	Bussed Space	40
41	Refrigerator	20 A	1					400 VA	0 VA	--	--	Bussed Space	42
			Total Load:	4896 VA		4928 VA		4496 VA					
			Total Amps:	41 A		42 A		37 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Non-Continuous	14320 VA	100.00%	14320 VA		
				Total Conn. Load:	14320 VA
				Total Est. Demand:	14320 VA
				Total Conn.:	40 A
				Total Est. Demand:	40 A

Branch Panel: EP3A

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Stacked Inc.	20 A	1	400 VA	1000...					1	20 A	Bio Wave/Safety Cab.	2
3	Bio Wave Cab.	20 A	1			500 VA	500 VA			1	20 A	Bio Wave Cab.	4
5	Bio Safety Cab.	20 A	1					400 VA	500 VA	1	20 A	Bio Wave Cab.	6
7	Bio Wave Cab.	20 A	1	500 VA	1000...					1	20 A	Bio Wave/Safety Cab.	8
9	Bio Wave Cab.	20 A	1			500 VA	1000...			1	20 A	Bio Wave/Safety Cab.	10
11	Bio Safety Cab.	20 A	1					180 VA	500 VA	1	20 A	Bio Wave Cab.	12
13	Bio Wave Cab.	20 A	1	500 VA	500 VA					1	20 A	Bio Wave Cab.	14
15	Refrigerator	20 A	1			400 VA	1000...			1	20 A	Bio Wave/Safety Cab.	16
17	Roller Bottle Inc.	20 A	1					500 VA	1000...	1	20 A	Bio Wave/Safety Cab.	18
19	Roller Bottle Inc.	20 A	1	180 VA	400 VA					1	20 A	Receptacle	20
21	Roller Bottle Inc.	20 A	1			180 VA	500 VA			1	20 A	Bio Safety Cab.	22
23	Roller Bottle Inc.	20 A	1					180 VA	500 VA	1	20 A	Bio Safety Cab.	24
25	Stacked Inc.	20 A	1	180 VA	700 VA					1	20 A	Stacked Inc.	26
27	Bio Wave Cab.	20 A	1			500 VA	700 VA			1	20 A	Stacked Inc.	28
29	Bio Wave/Safety Cab.	20 A	1					1000...	400 VA	1	20 A	Bio Safety Cab.	30
31	Bio Wave/Safety Cab.	20 A	1	1000...	1000...					1	20 A	Bio Safety Cab.	32
33	Bio Wave/Safety Cab.	20 A	1			1000...	180 VA			1	20 A	Roller Bottle Inc.	34
35	Bio Wave Cab.	20 A	1					500 VA	180 VA	1	20 A	Roller Bottle Inc.	36
37	Bio Wave Cab.	20 A	1	500 VA	0 VA					--	--	Bussed Space	38
39	Bio Wave Cab.	20 A	1			500 VA	0 VA			--	--	Bussed Space	40
41	Bio Wave/Safety Cab.	20 A	1					1000...	0 VA	--	--	Bussed Space	42
			Total Load:	7860 VA		7460 VA		6840 VA					
			Total Amps:	66 A		63 A		57 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1260 VA	100.00%	1260 VA		
Non-Continuous	20900 VA	100.00%	20900 VA	**Total Conn. Load:**	22160 VA
				Total Est. Demand:	22160 VA
				Total Conn.:	62 A
				Total Est. Demand:	62 A

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GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

PANEL SCHEDULES

Sheet No.

2E-514

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Branch Panel: EP3B

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Bio Safety Cab.	20 A	1	500 VA	500 VA					1	20 A	Roller Bottle Inc.	2
3	Bio Safety Cab.	20 A	1			500 VA	500 VA			1	20 A	Roller Bottle Inc.	4
5	Stacked Inc.	20 A	1					500 VA	400 VA	1	20 A	Stacked Inc.	6
7	Stacked Inc.	20 A	1	500 VA	400 VA					1	20 A	Stacked Inc.	8
9	Bio Safety Cab.	20 A	1			500 VA	400 VA			1	20 A	Refrigerator	10
11	Bio Safety Cab.	20 A	1					1000...	832 VA	2	20 A	-80 Freezer	12
13	Roller Bottle Inc.	20 A	1	500 VA	832 VA					--	--	--	14
15	Refrigerator	20 A	1			400 VA	400 VA			1	20 A	Stacked Inc.	16
17	Refrigerator	20 A	1					400 VA	500 VA	1	20 A	Roller Bottle Inc.	18
19	Refrigerator	20 A	1	400 VA	832 VA					2	20 A	-80 Freezer	20
21	Refrigerator	20 A	1			400 VA	832 VA			--	--	--	22
23	Refrigerator	20 A	1					400 VA	400 VA	1	20 A	Stacked Inc.	24
25	Refrigerator	20 A	1	400 VA	400 VA					1	20 A	Stacked Inc.	26
27	Roller Bottle Inc.	20 A	1			500 VA	400 VA			1	20 A	Stacked Inc.	28
29	Refrigerator	20 A	1					400 VA	400 VA	1	20 A	Refrigerator	30
31	-20 Freezer	20 A	2	832 VA	400 VA					1	20 A	-20 Freezer	32
33	--	--	--			832 VA	832 VA			2	20 A	Receptacle	34
35	-20 Freezer	20 A	2					832 VA	832 VA	--	--	--	36
37	--	--	--	832 VA	0 VA					--	--	Bussed Space	38
39	Refrigerator	20 A	1			400 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
				Total Load:	7328 VA		6896 VA		6896 VA				
				Total Amps:	61 A		57 A		57 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Non-Continuous	21120 VA	100.00%	21120 VA		
				Total Conn. Load:	21120 VA
				Total Est. Demand:	21120 VA
				Total Conn.:	59 A
				Total Est. Demand:	59 A

Branch Panel: EP3C

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	-80 Freezer	20 A	2	832 VA	400 VA					1	20 A	Refrigerator	2
3	--	--	--			832 VA	400 VA			1	20 A	Refrigerator	4
5	-80 Freezer	20 A	2					832 VA	400 VA	1	20 A	Refrigerator	6
7	--	--	--	832 VA	400 VA					1	20 A	Refrigerator	8
9	Freezer	20 A	2			832 VA	400 VA			1	20 A	Refrigerator	10
11	--	--	--					832 VA	400 VA	1	20 A	Refrigerator	12
13	Freezer	20 A	2	832 VA	400 VA					1	20 A	Refrigerator	14
15	--	--	--			832 VA	400 VA			1	20 A	Refrigerator	16
17	Freezer	20 A	2					832 VA	400 VA	1	20 A	Refrigerator	18
19	--	--	--	832 VA	400 VA					1	20 A	Refrigerator	20
21	Freezer	20 A	2			832 VA	400 VA			1	20 A	Refrigerator	22
23	--	--	--					832 VA	400 VA	1	20 A	Refrigerator	24
25	Freezer	20 A	2	832 VA	400 VA					1	20 A	Refrigerator	26
27	--	--	--			832 VA	400 VA			1	20 A	Refrigerator	28
29	Freezer	20 A	2					832 VA	0 VA	--	--	Bussed Space	30
31	--	--	--	832 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
				Total Load:	6992 VA		6160 VA		5760 VA				
				Total Amps:	59 A		52 A		48 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Non-Continuous	18912 VA	100.00%	18912 VA		
				Total Conn. Load:	18912 VA
				Total Est. Demand:	18912 VA
				Total Conn.:	52 A
				Total Est. Demand:	52 A

Branch Panel: EP3D

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	360 VA	700 VA					1	20 A	Stacked Inc.	2
3	Receptacle	20 A	1			360 VA	700 VA			1	20 A	Stacked Inc.	4
5	Receptacle	20 A	1					540 VA	500 VA	1	20 A	Bio Safety Cab.	6
7	Receptacle	20 A	1	540 VA	500 VA					1	20 A	Bio Safety Cab.	8
9	Receptacle	20 A	1			360 VA	1000...			1	20 A	Bio Wave/Safety Cab.	10
11	Refrigerator	20 A	1					400 VA	1000...	1	20 A	Bio Wave/Safety Cab.	12
13	Bio Wave Cab.	20 A	1	500 VA	400 VA					1	20 A	Bio Wave Cab.	14
15	Bio Safety Cab.	20 A	1			540 VA	400 VA			1	20 A	Bio Wave Cab.	16
17	Bio Wave Cab.	20 A	1					500 VA	400 VA	1	20 A	Stacked Inc.	18
19	Bio Wave Cab.	20 A	1	180 VA	720 VA					1	20 A	COLD ROOM EVAPORATOR	20
21	Bio Safety Cab.	20 A	1			360 VA	720 VA			1	20 A	COLD ROOM EVAPORATOR	22
23	Bio Wave Cab.	20 A	1					180 VA	0 VA	--	--	Bussed Space	24
25	Stacked Inc.	20 A	1	700 VA	0 VA					--	--	Bussed Space	26
27	Stacked Inc.	20 A	1			700 VA	0 VA			--	--	Bussed Space	28
29	Bio Safety Cab.	20 A	1					500 VA	0 VA	--	--	Bussed Space	30
31	Bio Safety Cab.	20 A	1	500 VA	0 VA					--	--	Bussed Space	32
33	Bio Wave/Safety Cab.	20 A	1			1000...	0 VA			--	--	Bussed Space	34
35	Bio Wave/Safety Cab.	20 A	1					1000...	0 VA	--	--	Bussed Space	36
37	Bio Wave Cab.	20 A	1	500 VA	0 VA					--	--	Bussed Space	38
39	Bio Wave Cab.	20 A	1			500 VA	0 VA			--	--	Bussed Space	40
41	L-EAV-3.1, L-SAV-3.1	20 A	1					360 VA	0 VA	--	--	Bussed Space	42
				Total Load:	5600 VA		6640 VA		5380 VA				
				Total Amps:	47 A		56 A		45 A				

2.3

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	3780 VA	100.00%	3780 VA		
Power	1440 VA	100.00%	1440 VA	**Total Conn. Load:**	17620 VA
Non-Continuous	12400 VA	100.00%	12400 VA	**Total Est. Demand:**	17620 VA
				Total Conn.:	49 A
				Total Est. Demand:	49 A

Branch Panel: ET3

Location:
Supply From: EPDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	540 VA	0 VA					--	--	Bussed Space	2
3	Receptacle	20 A	1			540 VA	0 VA			--	--	Bussed Space	4
5	Receptacle	20 A	1					540 VA	0 VA	--	--	Bussed Space	6
7	Receptacle	20 A	1	360 VA	0 VA					--	--	Bussed Space	8
9	Spare	20 A	1			0 VA	0 VA			--	--	Bussed Space	10
11	Spare	20 A	1					0 VA	0 VA	--	--	Bussed Space	12
13	Spare	20 A	1	0 VA	0 VA					--	--	Bussed Space	14
15	Spare	20 A	1			0 VA	0 VA			--	--	Bussed Space	16
17	Spare	20 A	1					0 VA	0 VA	--	--	Bussed Space	18
19	Spare	20 A	1	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
				Total Load:	900 VA		540 VA		540 VA				
				Total Amps:	8 A		5 A		5 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1980 VA	100.00%	1980 VA		
				Total Conn. Load:	1980 VA
				Total Est. Demand:	1980 VA
				Total Conn.:	5 A
				Total Est. Demand:	5 A

Branch Panel: EP4A

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	REFRIGERATOR	20 A	1	400 VA	400 VA					1	20 A	REFRIGERATOR	2
3	REFRIGERATOR	20 A	1			400 VA	936 VA			2	20 A	-20 FREEZER	4
5	REFRIGERATOR	20 A	1					400 VA	936 VA	--	--	--	6
7	-20 FREEZER	20 A	2	832 VA	936 VA					2	20 A	-20 FREEZER	8
9	--	--	--			832 VA	936 VA			--	--	--	10
11	-80 FREEZER	20 A	2					832 VA	936 VA	2	20 A	-20 FREEZER	12
13	--	--	--	832 VA	936 VA					--	--	--	14
15	REFRIGERATOR	20 A	1			400 VA	936 VA			2	20 A	-20 FREEZER	16
17	REFRIGERATOR	20 A	1					400 VA	936 VA	--	--	--	18
19	-80 FREEZER	20 A	2	832 VA	936 VA					2	20 A	-20 FREEZER	20
21	--	--	--			832 VA	936 VA			--	--	--	22
23	-20 FREEZER	20 A	2					832 VA	400 VA	1	20 A	REFRIGERATOR	24
25	--	--	--	832 VA	0 VA					--	--	Bussed Space	26
27	REFRIGERATOR	20 A	1			400 VA	0 VA			--	--	Bussed Space	28
29	REFRIGERATOR	20 A	1					400 VA	0 VA	--	--	Bussed Space	30
31	REFRIGERATOR	20 A	1	400 VA	0 VA					--	--	Bussed Space	32
33	REFRIGERATOR	20 A	1			400 VA	0 VA			--	--	Bussed Space	34
35	REFRIGERATOR	20 A	1					400 VA	0 VA	--	--	Bussed Space	36
37	REFRIGERATOR	20 A	1	400 VA	0 VA					--	--	Bussed Space	38
39	REFRIGERATOR	20 A	1			400 VA	0 VA			--	--	Bussed Space	40
41	REFRIGERATOR	20 A	1					400 VA	0 VA	--	--	Bussed Space	42
				Total Load:	7736 VA		7408 VA		6872 VA				
				Total Amps:	65 A		62 A		57 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Non-Continuous	22016 VA	100.00%	22016 VA		
				Total Conn. Load:	22016 VA
				Total Est. Demand:	22016 VA
				Total Conn.:	61 A
				Total Est. Demand:	61 A

Branch Panel: EP4B

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	STACKED INC.	20 A	1	400 VA	720 VA					1	20 A	COLD ROOM EVAPORATOR	2
3	-20 FREEZER	20 A	2			832 VA	0 VA			--	--	Bussed Space	4
5	--	--	--					832 VA	0 VA	--	--	Bussed Space	6
7	-4 FREEZER	20 A	2	832 VA	0 VA					--	--	Bussed Space	8
9	--	--	--			832 VA	0 VA			--	--	Bussed Space	10
11	-4 FREEZER	20 A	2					832 VA	0 VA	--	--	Bussed Space	12
13	--	--	--	832 VA	0 VA					--	--	Bussed Space	14
15	-4 FREEZER	20 A	2			832 VA	0 VA			--	--	Bussed Space	16
17	--	--	--					832 VA	0 VA	--	--	Bussed Space	18
19	STACKED INC.	20 A	1	400 VA	0 VA					--	--	Bussed Space	20
21	STACKED INC.	20 A	1			400 VA	0 VA			--	--	Bussed Space	22
23	REFRIGERATOR	20 A	1					400 VA	0 VA	--	--	Bussed Space	24
25	REFRIGERATOR	20 A	1	400 VA	0 VA					--	--	Bussed Space	26
27	REFRIGERATOR	20 A	1			400 VA	0 VA			--	--	Bussed Space	28
29	REFRIGERATOR	20 A	1					400 VA	0 VA	--	--	Bussed Space	30
31	Ceiling Receptacle	20 A	1	400 VA	0 VA					--	--	Bussed Space	32
33	STACKED INC.	20 A	1			700 VA	0 VA			--	--	Bussed Space	34
35	STACKED INC.	20 A	1					700 VA	0 VA	--	--	Bussed Space	36
37	COLD ROOM RECEPTACLE	20 A	1	540 VA	0 VA					--	--	Bussed Space	38
39	COLD ROOM RECEPTACLE	20 A	1			540 VA	0 VA			--	--	Bussed Space	40
41	REFRIGERATOR	20 A	1					400 VA	0 VA	--	--	Bussed Space	42
				Total Load:	4524 VA		4536 VA		4396 VA				
				Total Amps:	38 A		38 A		37 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1080 VA	100.00%	1080 VA		
Power	720 VA	100.00%	720 VA	**Total Conn. Load:**	13456 VA
Non-Continuous	11656 VA	100.00%	11656 VA	**Total Est. Demand:**	13456 VA
				Total Conn.:	37 A
				Total Est. Demand:	37 A

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1IIFC

ADDENDUM #2.2
10.03.17

Sheet Title

PANEL
SCHEDULES

Sheet No.

2E-515

Branch Panel: EP4C

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	540 VA	360 VA		1	20 A	Receptacle	2
3	Receptacle	20 A	1		360 VA	360 VA	1	20 A	Receptacle	4
5	Receptacle	30 A	2			0 VA 0 VA	2	30 A	Receptacle	6
7	--	--	--	0 VA	0 VA		--	--	--	8
9	LYPHOLIZER	50 A	2		3640...	3640...	2	50 A	LYPHOLIZER	10
11	--	--	--			3640... 3640...	--	--	--	12
13	Receptacle	20 A	1	360 VA	360 VA		1	20 A	Receptacle	14
15	Receptacle	30 A	2		0 VA	0 VA	2	30 A	Receptacle	16
17	--	--	--			0 VA 0 VA	--	--	--	18
19	LYPHOLIZER	50 A	2	3640...	3640...		2	50 A	LYPHOLIZER	20
21	--	--	--		3640...	3640...	--	--	--	22
23	Receptacle	20 A	1			360 VA 0 VA	--	--	Bussed Space	24
25	Receptacle	30 A	2	0 VA	0 VA		--	--	Bussed Space	26
27	--	--	--		0 VA	0 VA	--	--	Bussed Space	28
29	LYPHOLIZER	50 A	2			3640... 0 VA	--	--	Bussed Space	30
31	--	--	--	3640...	0 VA		--	--	Bussed Space	32
33	L-SAV-4.1, L-EAV-4.1	20 A	1		360 VA	0 VA	--	--	Bussed Space	34
35	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	38
39	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	42
				Total Load: 12540 VA	15640 VA	11280 VA				
				Total Amps: 106 A	132 A	94 A				

2.3

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	3060 VA	100.00%	3060 VA		
Non-Continuous	36400 VA	100.00%	36400 VA	**Total Conn. Load:**	39460 VA
				Total Est. Demand:	39460 VA
				Total Conn.:	110 A
				Total Est. Demand:	110 A

Branch Panel: EP4D

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	-20 Freezer	20 A	2	832 VA	180 VA		1	20 A	Stacked Inc.	2
3	--	--	--		832 VA	180 VA	1	20 A	Stacked Inc.	4
5	Refrigerator	20 A	1			400 VA 180 VA	1	20 A	Stacked Inc.	6
7	Stacked Inc.	20 A	1	400 VA	180 VA		1	20 A	Stacked Inc.	8
9	Stacked Inc.	20 A	1		400 VA	400 VA	1	20 A	Refrigerator	10
11	Stacked Inc.	20 A	1			400 VA 936 VA	2	20 A	Freezer	12
13	Stacked Inc.	20 A	1	400 VA	936 VA		--	--	--	14
15	Stacked Inc.	20 A	1		180 VA	0 VA	--	--	Bussed Space	16
17	Stacked Inc.	20 A	1			180 VA 0 VA	--	--	Bussed Space	18
19	Refrigerator	20 A	1	400 VA	0 VA		--	--	Bussed Space	20
21	-80 Freezer	20 A	2		832 VA	0 VA	--	--	Bussed Space	22
23	--	--	--			832 VA 0 VA	--	--	Bussed Space	24
25	-20 Freezer	20 A	2	832 VA	0 VA		--	--	Bussed Space	26
27	--	--	--		832 VA	0 VA	--	--	Bussed Space	28
29	-20 Freezer	20 A	2			832 VA 0 VA	--	--	Bussed Space	30
31	--	--	--	832 VA	0 VA		--	--	Bussed Space	32
33	Deli Refrigerator	20 A	1		400 VA	0 VA	--	--	Bussed Space	34
35	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA		--	--	Bussed Space	38
39	Bussed Space	--	--		0 VA	0 VA	--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	42
				Total Load: 4992 VA	4056 VA	3760 VA				
				Total Amps: 42 A	34 A	31 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1080 VA	100.00%	1080 VA		
Non-Continuous	11728 VA	100.00%	11728 VA	**Total Conn. Load:**	12808 VA
				Total Est. Demand:	12808 VA
				Total Conn.:	36 A
				Total Est. Demand:	36 A

Branch Panel: EP4E

Location:
Supply From: EPDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Stacked Inc.	20 A	1	400 VA	0 VA		--	--	Bussed Space	2
3	Stacked Inc.	20 A	1		400 VA	0 VA	--	--	Bussed Space	4
5	Stacked Inc.	20 A	1			400 VA 0 VA	--	--	Bussed Space	6
7	Stacked Inc.	20 A	1	400 VA	0 VA		--	--	Bussed Space	8
9	Refrigerator	20 A	1		400 VA	0 VA	--	--	Bussed Space	10
11	Refrigerator	20 A	1			400 VA 0 VA	--	--	Bussed Space	12
13	Refrigerator	20 A	1	400 VA	0 VA		--	--	Bussed Space	14
15	Refrigerator	20 A	1		400 VA	0 VA	--	--	Bussed Space	16
17	Refrigerator	20 A	1			400 VA 0 VA	--	--	Bussed Space	18
19	Refrigerator	20 A	1	400 VA	0 VA		--	--	Bussed Space	20
21	Refrigerator	20 A	1		400 VA	0 VA	--	--	Bussed Space	22
23	Refrigerator	20 A	1			400 VA 0 VA	--	--	Bussed Space	24
25	Refrigerator	20 A	1	400 VA	0 VA		--	--	Bussed Space	26
27	Refrigerator	20 A	1		400 VA	0 VA	--	--	Bussed Space	28
29	Refrigerator	20 A	1			400 VA 0 VA	--	--	Bussed Space	30
31	Refrigerator	20 A	1	400 VA	0 VA		--	--	Bussed Space	32
33	Refrigerator	20 A	1		400 VA	0 VA	--	--	Bussed Space	34
35	Refrigerator	20 A	1			400 VA 0 VA	--	--	Bussed Space	36
37	Refrigerator	20 A	1	400 VA	0 VA		--	--	Bussed Space	38
39	Refrigerator	20 A	1		400 VA	0 VA	--	--	Bussed Space	40
41	Refrigerator	20 A	1			400 VA 0 VA	--	--	Bussed Space	42
				Total Load: 2800 VA	2800 VA	2800 VA				
				Total Amps: 23 A	23 A	23 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Non-Continuous	8400 VA	100.00%	8400 VA		
				Total Conn. Load:	8400 VA
				Total Est. Demand:	8400 VA
				Total Conn.:	23 A
				Total Est. Demand:	23 A

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GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title
PANEL SCHEDULES

Sheet No.
2E-516

Switchboard: EPH

Location:
Supply From: ATS-EP
Mounting: Floor
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 1600 A
MCB Rating: 1600 A

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	EPHWM	3	600 A	340848 VA	
2	EPHWL	3	100 A	7652 VA	
3	T-EPW	3	125 A	1500 VA	
4	EPM4H	3	600 A	346140 VA	
5	T-EP	3	350 A	229352 VA	
6	T-EPM	3	175 A	134313 VA	
7	Bussed Space	--	--	0 VA	--
8	Bussed Space	--	--	0 VA	--
9	Bussed Space	--	--	0 VA	--
10	Bussed Space	--	--	0 VA	--
11	Bussed Space	--	--	0 VA	--
12	Bussed Space	--	--	0 VA	--
13	Bussed Space	--	--	0 VA	--
14	Bussed Space	--	--	0 VA	--
15	Bussed Space	--	--	0 VA	--
16	Bussed Space	--	--	0 VA	--
17	Bussed Space	--	--	0 VA	--
18	Bussed Space	--	--	0 VA	--
19	Bussed Space	--	--	0 VA	--
20	Bussed Space	--	--	0 VA	--
				1059426 VA	
				1274 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Exterior	39 VA	125.00%	49 VA		
Receptacle	22500 VA	72.22%	16250 VA	**Total Conn. Load:**	1059426 VA
Spare	75060 VA	100.00%	75060 VA	**Total Est. Demand:**	1054995 VA
Lighting	7613 VA	125.00%	9516 VA	**Total Conn.:**	1274 A
Power	757572 VA	100.00%	757572 VA	**Total Est. Demand:**	1269 A
Non-Continuous	197020 VA	100.00%	197020 VA		

Branch Panel: EPHWM

Location:
Supply From: EPH
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 600 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	COLD ROOM	200 A	3	4434...	0 VA					3	200 A	COLD ROOM	2
3	--	--	--			4434...	0 VA			--	--	--	4
5	--	--	--					4434...	0 VA	--	--	--	6
7	COLD ROOM	200 A	3	4434...	0 VA					3	200 A	COLD ROOM	8
9	--	--	--			4434...	0 VA			--	--	--	10
11	--	--	--					4434...	0 VA	--	--	--	12
13	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	14
15	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	16
17	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	2493...			--	--	--	40
41	Bussed Space	--	--	0 VA	2493...					3	200 A	EPHWMA	38
										--	--	--	42
			Total Load:	113616 VA		113616 VA		113616 VA					
			Total Amps:	410 A		410 A		410 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Spare	74808 VA	100.00%	74808 VA		
Power	266040 VA	100.00%	266040 VA	**Total Conn. Load:**	340848 VA
				Total Est. Demand:	340848 VA
				Total Conn.:	410 A
				Total Est. Demand:	410 A

Branch Panel: EPHWMA

Location:
Supply From: EPHWM
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MLO
Mains Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	COLD ROOM	20 A	3	4156...	0 VA					3	20 A	COLD ROOM	2
3	--	--	--			4156...	0 VA			--	--	--	4
5	--	--	--					4156...	0 VA	--	--	--	6
7	COLD ROOM	20 A	3	4156...	0 VA					3	20 A	COLD ROOM	8
9	--	--	--			4156...	0 VA			--	--	--	10
11	--	--	--					4156...	0 VA	--	--	--	12
13	COLD ROOM	20 A	3	4156...	0 VA					3	20 A	COLD ROOM	14
15	--	--	--			4156...	0 VA			--	--	--	16
17	--	--	--					4156...	0 VA	--	--	--	18
19	COLD ROOM	20 A	3	4156...	0 VA					3	20 A	COLD ROOM	20
21	--	--	--			4156...	0 VA			--	--	--	22
23	--	--	--					4156...	0 VA	--	--	--	24
25	COLD ROOM	20 A	3	4156...	0 VA					3	20 A	COLD ROOM	26
27	--	--	--			4156...	0 VA			--	--	--	28
29	--	--	--					4156...	0 VA	--	--	--	30
31	COLD ROOM	20 A	3	4156...	0 VA					3	20 A	COLD ROOM	32
33	--	--	--			4156...	0 VA			--	--	--	34
35	--	--	--					4156...	0 VA	--	--	--	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	24936 VA		24936 VA		24936 VA					
			Total Amps:	90 A		90 A		90 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Spare	74808 VA	100.00%	74808 VA		
				Total Conn. Load:	74808 VA
				Total Est. Demand:	74808 VA
				Total Conn.:	90 A
				Total Est. Demand:	90 A

Branch Panel: EPHWL

Location:
Supply From: EPH
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	WAREHOUSE LTG	20 A	1	3437...	0 VA					--	--	Bussed Space	2
3	WAREHOUSE LTG	20 A	1			3730...	0 VA			--	--	Bussed Space	4
5	WAREHOUSE EXTERIOR LTG	20 A	1					486 VA	0 VA	--	--	Bussed Space	6
7	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	8
9	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	10
11	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	12
13	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	14
15	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	16
17	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	3437 VA		3730 VA		486 VA					
			Total Amps:	14 A		15 A		2 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Exterior	39 VA	125.00%	49 VA		
Lighting	7613 VA	125.00%	9516 VA	**Total Conn. Load:**	7652 VA
				Total Est. Demand:	9565 VA
				Total Conn.:	9 A
				Total Est. Demand:	12 A

Branch Panel: EPLW

Location:
Supply From: T-EPW
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	MOTORIZED DOOR	20 A	1	500 VA	0 VA					--	--	Bussed Space	2
3	MOTORIZED DOOR	20 A	1			500 VA	0 VA			--	--	Bussed Space	4
5	MOTORIZED DOOR	20 A	1					500 VA	0 VA	--	--	Bussed Space	6
7	DOCK LEVELER	30 A	1	0 VA	0 VA					--	--	Bussed Space	8
9	DOCK LEVELER	30 A	1			0 VA	0 VA			--	--	Bussed Space	10
11	DOCK LEVELER	30 A	1					0 VA	0 VA	--	--	Bussed Space	12
13	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	14
15	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	16
17	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	42
			Total Load:	500 VA		500 VA		500 VA					
			Total Amps:	4 A		4 A		4 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	1500 VA	100.00%	1500 VA		
				Total Conn. Load:	1500 VA
				Total Est. Demand:	1500 VA
				Total Conn.:	4 A
				Total Est. Demand:	4 A

Switchboard: EPM

Location:
Supply From: T-EPM
Mounting: Floor
Enclosure: Type 2

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	EPM4L	3	200 A	62160 VA	
2	EPM4LA	3	200 A	65064 VA	
3	EF-4	1	30 A	1656 VA	
4	EF-7	1	20 A	667 VA	
5	EF-8	1	20 A	1127 VA	
6	EF-11	1	20 A	667 VA	
7	EF-10	1	30 A	1840 VA	
8	SSFC-1.5A, SSFC-1.5B	2	20 A	1132 VA	
9	Bussed Space	--	--	0 VA	--
10	Bussed Space	--	--	0 VA	--
11	Bussed Space	--	--	0 VA	--
12	Bussed Space	--	--	0 VA	--
13	Bussed Space	--	--	0 VA	--
14	Bussed Space	--	--	0 VA	--
15	Bussed Space	--	--	0 VA	--
16	Bussed Space	--	--	0 VA	--
17	Bussed Space	--	--	0 VA	--
18	Bussed Space	--	--	0 VA	--
19	Bussed Space	--	--	0 VA	--
20	Bussed Space	--	--	0 VA	--
				134313 VA	
				373 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	180 VA	100.00%	180 VA		
Power	134133 VA	100.00%	134133 VA	**Total Conn. Load:**	134313 VA
				Total Est. Demand:	134313 VA
				Total Conn.:	373 A
				Total Est. Demand:	373 A

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GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1IIFC

ADDENDUM #2.2
10.03.17

Sheet Title
PANEL SCHEDULES

Sheet No.
2E-517

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Branch Panel: ELH1

Location:
Supply From: ATS-EL
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	T-EL	50 A	3	1320...	7080...		3	60 A	ELH2	2
3	--	--	--		1200... 130 VA		--	--	--	4
5	--	--	--			900 VA 0 VA	--	--	--	6
7	MEZZANINE LTG	20 A	1	123 VA 693 VA			1	20 A	CORRIDOR LTG	8
9	STAIR LIGHTING	20 A	1		176 VA 802 VA		1	20 A	SITE LTG	10
11	FACILTITIES & LAB LTG	20 A	1			421 VA				12
13	EXTERIOR LTG	20 A	1	160 VA						14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
	Total Load:			9318 VA	2296 VA	1306 VA				
	Total Amps:			34 A	9 A	5 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	123 VA	100.00%	123 VA		
Receptacle	360 VA	100.00%	360 VA	**Total Conn. Load:**	12877 VA
Lighting	9442 VA	125.00%	11803 VA	**Total Est. Demand:**	15231 VA
Power	3060 VA	100.00%	3060 VA	**Total Conn.:**	15 A
				Total Est. Demand:	18 A

Branch Panel: ELH2

Location:
Supply From: ELH1
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: DOUBLE LUG
Mains Rating: 60 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	STAIR LIGHTING	20 A	1	143 VA 2461...			1	20 A	LAB LIGHTING	2
3	STAIR LIGHTING	20 A	1		130 VA					4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
	Total Load:			7080 VA	130 VA	0 VA				
	Total Amps:			26 A	1 A	0 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	7210 VA	125.00%	9013 VA		
				Total Conn. Load:	7210 VA
				Total Est. Demand:	9013 VA
				Total Conn.:	9 A
				Total Est. Demand:	11 A

Branch Panel: ELH3

Location:
Supply From: ELH2
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: DOUBLE LUG
Mains Rating: 60 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	CORRIDOR LTG	20 A	1	711 VA 1800...			1	20 A	LAB LIGHTING	2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
	Total Load:			4476 VA	0 VA	0 VA				
	Total Amps:			16 A	0 A	0 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	4476 VA	125.00%	5595 VA		
				Total Conn. Load:	4476 VA
				Total Est. Demand:	5595 VA
				Total Conn.:	5 A
				Total Est. Demand:	7 A

Branch Panel: ELH4

Location:
Supply From: ELH3
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 60 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				1965...			1	20 A	LAB LIGHTING	2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
	Total Load:			1965 VA	0 VA	0 VA				
	Total Amps:			7 A	0 A	0 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1965 VA	125.00%	2457 VA		
				Total Conn. Load:	1965 VA
				Total Est. Demand:	2457 VA
				Total Conn.:	2 A
				Total Est. Demand:	3 A

Branch Panel: ELL

Location:
Supply From: T-EL
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	AUTOMATIC DOOR - BRIDGE	20 A	1	300 VA 300 VA			1	20 A	Power	2
3	Power	20 A	1		300 VA 180 VA		1	20 A	Receptacle	4
5	Receptacle	20 A	1			180 VA 0 VA	--	--	Bussed Space	6
2.3 7	Power	20 A	1	720 VA 0 VA			--	--	Bussed Space	8
9	Power	20 A	1		720 VA 0 VA		--	--	Bussed Space	10
11	Power	20 A	1			720 VA 0 VA	--	--	Bussed Space	12
13	Bussed Space	--	--	0 VA 0 VA			--	--	Bussed Space	14
15	Bussed Space	--	--		0 VA 0 VA		--	--	Bussed Space	16
17	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA 0 VA			--	--	Bussed Space	20
21	Bussed Space	--	--		0 VA 0 VA		--	--	Bussed Space	22
23	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA 0 VA			--	--	Bussed Space	26
27	Bussed Space	--	--		0 VA 0 VA		--	--	Bussed Space	28
29	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA 0 VA			--	--	Bussed Space	32
33	Bussed Space	--	--		0 VA 0 VA		--	--	Bussed Space	34
35	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA 0 VA			--	--	Bussed Space	38
39	Bussed Space	--	--		0 VA 0 VA		--	--	Bussed Space	40
41	Bussed Space	--	--			0 VA 0 VA	--	--	Bussed Space	42
	Total Load:			1320 VA	1200 VA	900 VA				
	Total Amps:			11 A	10 A	8 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	360 VA	100.00%	360 VA		
Power	3060 VA	100.00%	3060 VA	**Total Conn. Load:**	3420 VA
				Total Est. Demand:	3420 VA
				Total Conn.:	9 A
				Total Est. Demand:	9 A

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

PANEL SCHEDULES

Sheet No.

2E-518

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

11/17/2017 4:31:33 PM

Branch Panel: LT1

Location:
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: DOUBLE LUG
Mains Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	GREEN ROOF LIGHTING	20 A	1	625 VA	304 VA					1	20 A	HAZ WASTE HODLING LTG	2
3	SUPPORT LTG	20 A	1			663 VA	2601...			1	20 A	FACILTITIES & LAB LTG	4
5	ATRIUM & CORRIDOR LTG	20 A	1					194 VA	489 VA	1	20 A	SERVING LTG	6
7	EXTERIOR LTG	20 A	1	521 VA	1385...					1	20 A	RESTROOM & STORAGE LTG	8
9	STORAGE & MEZZANINE LTG	20 A	1			1681...	492 VA			1	20 A	MECHANICAL ATTIC LTG	10
11	ELEVATOR HOISTWAY LTG	20 A	1					118 VA	0 VA	--	--	Bussed Space	12
13	MULTI-PURPOSE LTG	20 A	1	3750...	0 VA					--	--	Bussed Space	14
15	SITE LIGHTING	20 A	1			809 VA	0 VA			--	--	Bussed Space	16
17	SITE LIGHTING	20 A	1					1088...	0 VA	--	--	Bussed Space	18
19	SITE LIGHTING	20 A	1	192 VA	0 VA					--	--	Bussed Space	20
21	SITE LIGHTING	20 A	1			1049...	0 VA			--	--	Bussed Space	22
23	ELEVATOR HOISTWAY LTG	20 A	1					59 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
				Total Load:		37501 VA		22299 VA		11069 VA			
				Total Amps:		142 A		87 A		40 A			

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Exterior	3288 VA	125.00%	4109 VA		
Other	3690 VA	100.00%	3690 VA	**Total Conn. Load:**	70865 VA
Spare	3950 VA	100.00%	3950 VA	**Total Est. Demand:**	86743 VA
Lighting	60253 VA	125.00%	75316 VA	**Total Conn.:**	85 A
				Total Est. Demand:	104 A

Branch Panel: LT2

Location:
Supply From: LT1
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: DOUBLE LUGS
Mains Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LAB LIGHTING	20 A	1	2748...	1502...					1	20 A	CORRIDOR LTG	2
3	LAB LIGHTING	20 A	1			2183...	1941...			1	20 A	LAB LIGHTING	4
5	LAB LIGHTING	20 A	1					1309...	970 VA	1	20 A	RESTROOM & STORAGE LTG	6
7	LAB LIGHTING	20 A	1	1687...	1668...					1	20 A	LAB LIGHTING	8
9	LAB LIGHTING	20 A	1			2358...	2177...			1	20 A	OFFICE LIGHTING	10
11	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	12
13	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	14
15	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	16
17	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
				Total Load:		30903 VA		15106 VA		9130 VA			
				Total Amps:		115 A		58 A		33 A			

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Spare	200 VA	100.00%	200 VA		
Lighting	54944 VA	125.00%	68681 VA	**Total Conn. Load:**	55135 VA
				Total Est. Demand:	68871 VA
				Total Conn.:	66 A
				Total Est. Demand:	83 A

Branch Panel: LT3

Location:
Supply From: LT2
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: DOUBLE LUGS
Mains Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LAB LIGHTING	20 A	1	3270...	2906...					1	20 A	OFFICE & LAB LIGHTING	2
3	LAB LIGHTING	20 A	1			847 VA	1337...			1	20 A	CORRIDOR LTG	4
5	RESTROOM & STORAGE LTG	20 A	1					1750...	1369...	1	20 A	LAB LIGHTING	6
7	LAB LIGHTING	20 A	1	3482...	3041...					1	20 A	LAB LIGHTING	8
9	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	10
11	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	12
13	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	14
15	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	16
17	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
				Total Load:		23298 VA		6468 VA		6851 VA			
				Total Amps:		84 A		23 A		25 A			

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Spare	200 VA	100.00%	200 VA		
Lighting	36426 VA	125.00%	45533 VA	**Total Conn. Load:**	36617 VA
				Total Est. Demand:	45723 VA
				Total Conn.:	44 A
				Total Est. Demand:	55 A

Branch Panel: LT4

Location:
Supply From: LT3
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	OFFICE LIGHTING	20 A	1	1863...	3068...					1	20 A	LAB LIGHTING	2
3	LAB LIGHTING	20 A	1			2553...	350 VA			1	20 A	RESTROOM & STORAGE LTG	4
5	CORRIDOR LTG	20 A	1					1418...	623 VA	1	20 A	CORRIDOR LTG	6
7	LAB LIGHTING	20 A	1	1742...	3929...					1	20 A	LAB LIGHTING	8
9	STORAGE LIGHTING	20 A	1			424 VA	958 VA			1	20 A	LAB LIGHTING	10
11	OFFICE LTG	20 A	1					1501...	200 VA	1	20 A	ATRIUM LIGHTING	12
13	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	14
15	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	16
17	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
				Total Load:		10602 VA		4285 VA		3733 VA			
				Total Amps:		39 A		16 A		13 A			

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Spare	200 VA	100.00%	200 VA		
Lighting	18427 VA	125.00%	23034 VA	**Total Conn. Load:**	18617 VA
				Total Est. Demand:	23224 VA
				Total Conn.:	22 A
				Total Est. Demand:	28 A

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title

PANEL SCHEDULES

Sheet No.

2E-519

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

SHEET KEYED NOTES:

1 PROVIDE PROVISIONS FOR SPLIT BUS PANEL PER CEC TITLE 24 REQUIREMENTS.

Branch Panel: M1H

Location:
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MLO
Mains Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	DI-1	20 A	3	2495...	6133...					3	125 A	T-M1	2
3	--	--	--			2495...	4974...			--	--	--	4
5	--	--	--					2495...	4768...	--	--	--	6
7	VAC-1	60 A	3	7649...	0 VA					--	--	Bussed Space	8
9	--	--	--			7649...	0 VA			--	--	Bussed Space	10
11	--	--	--					7649...	0 VA	--	--	Bussed Space	12
13	AC-1	35 A	3	3575...	0 VA					--	--	Bussed Space	14
15	--	--	--			3575...	0 VA			--	--	Bussed Space	16
17	--	--	--					3575...	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	600 VA					2	20 A	Receptacle	32
33	Bussed Space	--	--			0 VA	600 VA			--	--	--	34
35	Bussed Space	--	--					0 VA	1000...	2	30 A	Receptacle	36
37	CAGE & BOTTLE WASHER	20 A	3	2772...	1000...					--	--	--	38
39	--	--	--			2772...	1500...			2	50 A	Receptacle	40
41	--	--	--					2772...	1500...	--	--	--	42
			Total Load:	24224 VA		23565 VA		23759 VA					
			Total Amps:	88 A		85 A		86 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	6200 VA	100.00%	6200 VA		
Power	65348 VA	100.00%	65348 VA	**Total Conn. Load:**	71548 VA
				Total Est. Demand:	71548 VA
				Total Conn.:	86 A
				Total Est. Demand:	86 A

Branch Panel: M1L

Location:
Supply From: T-M1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	DI-1 BOOSTER PUMP	20 A	1	840 VA	441 VA					2	20 A	BS-1.01, FC-1.08, FC-1.09	2
3	WS-1	20 A	1			300 VA	441 VA			--	--	--	4
5	B-1	20 A	1					180 VA	674 VA	2	20 A	FC-1.05, FC-1.06, FC-1.07	6
7	CD-1	20 A	1	360 VA	674 VA					--	--	--	8
9	B-2	20 A	1			180 VA	483 VA			2	20 A	BS-1.02, FC-1.04, FC-1.10	10
11	CD-1	20 A	1					540 VA	483 VA	--	--	--	12
13	WH-3	20 A	1	180 VA	799 VA					2	20 A	FC-1.01, FC-1.02, FC-1.03	14
15	SP-1 CONTROL PANEL	20 A	1			180 VA	799 VA			--	--	--	16
17	SP-1	20 A	3					577 VA	466 VA	2	20 A	FC-2.10, FC-2.11	18
19	--	--	--	577 VA	466 VA					--	--	--	20
21	--	--	--			577 VA	707 VA			2	20 A	FC-2.06, FC-2.08, FC-2.12	22
23	FC-2.02, FC-2.03	20 A	2					374 VA	707 VA	--	--	--	24
25	--	--	--	374 VA	707 VA					2	20 A	FC-2.01, FC-2.05, FC-2.13	26
27	CP-3	20 A	1			600 VA	707 VA			--	--	--	28
29	EF-9	20 A	1					52 VA	715 VA	2	20 A	FC-2.04, FC-2.07, FC-2.09	30
31	Bussed Space	--	--	0 VA	715 VA					--	--	--	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	6133 VA		4974 VA		4768 VA					
			Total Amps:	51 A		42 A		40 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	15875 VA	100.00%	15875 VA		
				Total Conn. Load:	15875 VA
				Total Est. Demand:	15875 VA
				Total Conn.:	44 A
				Total Est. Demand:	44 A

Branch Panel: M2H

Location:
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	T-M2	125 A	3	1229...	0 VA					--	--	Bussed Space	2
3	--	--	--			1171...	0 VA			--	--	Bussed Space	4
5	--	--	--					9598...	0 VA	--	--	Bussed Space	6
7	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	8
9	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	10
11	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	12
13	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	14
15	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	16
17	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	AUTOCLAVE	60 A	3	1219...	0 VA					--	--	Bussed Space	32
33	--	--	--			1219...	0 VA			--	--	Bussed Space	34
35	--	--	--					1219...	0 VA	--	--	Bussed Space	36
37	AUTOCLAVE	60 A	3	1219...	1219...					3	60 A	AUTOCLAVE	38
39	--	--	--			1219...	1219...			--	--	--	40
41	--	--	--					1218...	1219...	--	--	--	42
			Total Load:	48876 VA		48296 VA		46180 VA					
			Total Amps:	178 A		176 A		167 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	3300 VA	100.00%	3300 VA		
Power	140052 VA	100.00%	140052 VA	**Total Conn. Load:**	143352 VA
				Total Est. Demand:	143352 VA
				Total Conn.:	172 A
				Total Est. Demand:	172 A

Branch Panel: M3H

Location:
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	2
3	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	4
5	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	6
7	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	8
9	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	10
11	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	12
13	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	14
15	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	16
17	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	18
19	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	20
21	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	22
23	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	AUTOCLAVE	60 A	3	1219...	0 VA					--	--	Bussed Space	38
39	--	--	--			1219...	0 VA			--	--	Bussed Space	40
41	--	--	--					1219...	0 VA	--	--	Bussed Space	42
			Total Load:	12194 VA		12194 VA		12194 VA					
			Total Amps:	44 A		44 A		44 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	36582 VA	100.00%	36582 VA		
				Total Conn. Load:	36582 VA
				Total Est. Demand:	36582 VA
				Total Conn.:	44 A
				Total Est. Demand:	44 A

Branch Panel: M4HA

Location:
Supply From: M4H
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EF-2A	45 A	3	5820...	3049...					3	20 A	EF-5A	2
3	--	--	--			5820...	3049...			--	--	--	4
5	--	--	--					5820...	3049...	--	--	--	6
7	EF-2B	45 A	3	5820...	3049...					3	20 A	EF-5B	8
9	--	--	--			5820...	3049...			--	--	--	10
11	--	--	--					5820...	3049...	--	--	--	12
13	EF-3A	35 A	3	3880...	0 VA					--	--	Bussed Space	14
15	--	--	--			3880...	0 VA			--	--	Bussed Space	16
17	--	--	--					3880...	0 VA	--	--	Bussed Space	18
19	EF-3B	35 A	3	3880...	0 VA					--	--	Bussed Space	20
21	--	--	--			3880...	0 VA			--	--	Bussed Space	22
23	--	--	--					3880...	0 VA	--	--	Bussed Space	24
25	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	26
27	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	28
29	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	30
31	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	32
33	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	34
35	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	36
37	AUTOCLAVE	60 A	3	1219...	0 VA					--	--	Bussed Space	38
39	--	--	--			1219...	0 VA			--	--	Bussed Space	40
41	--	--	--					1219...	0 VA	--	--	Bussed Space	42
			Total Load:	37692 VA		37692 VA		37692 VA					
			Total Amps:	136 A		136 A		136 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	113076 VA	100.00%	113076 VA		
				Total Conn. Load:	113076 VA
				Total Est. Demand:	113076 VA
				Total Conn.:	136 A
				Total Est. Demand:	136 A

Branch Panel: M4L

Location:
Supply From: T-M4
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ROS-1	20 A	1	840 VA	882 VA					2	20 A	BS-14.1, FC-14.01, FC-14.02, FC-14.03	2
3	FC-11.04, FC-11.05, FC-11.06, FC-11.07	20 A	2			740 VA	882 VA			--	--	--	4
5	--	--	--					740 VA	600 VA	2	20 A	FC-14.04A to FC-14.04F, BS-14.04, FC-13.10	6
7	BS-11.1, FC-11.01, FC-11.02, FC-11.03	20 A	2	832 VA	600 VA					--	--	--	8
9	--	--	--			832 VA	866 VA			2	20 A	BS-14.2, FC-14.05, FC-14.06, FC-14.07	10
11	FC-12.07,FC-12.08,FC-12.09	20 A	2					691 VA	866 VA	--	--	--	12
13	--	--	--	691 VA	849 VA					2	20 A	FC-14.08, FC-14.09, FC-14.10	14
15	BS-12.2,BS-12.3,FC-12.04,FC-12.05,FC-12.06	20 A	2			908 VA	849 VA			--	--	--	16
17	--	--	--					908 VA	499 VA	2	20 A	BS-14.3,FC-14.11,FC-14.12,FC-14.13,FC-14.14	18
19	FC-12.01, FC-12.02, FC-12.03, BS-12.01	20 A	2	899 VA	499 VA					--	--	--	20
21	--	--	--			899 VA	641 VA			2	20 A	FC-13.01, FC-13.02, FC-13.03	22
23	CD-1	20 A	1					720 VA	641 VA	--	--	--	24
25	CD-1	20 A	1	720 VA	724 VA					2	20 A	BS-13.1, FC-13.04, FC-13.05, FC-13.06	26
27	SMOKE DETECTORS	20 A	1			180 VA	724 VA			--	--	--	28
29	HF-1	20 A	1					240 VA	416 VA	2	20 A	FC-13.07, FC-13.08, FC-13.09	30
31	SMOKE DETECTORS	20 A	1	360 VA	416 VA					--	--	--	32
33	SMOKE DETECTORS	20 A	1			300 VA	0 VA			--	--	Bussed Space	34
35	SMOKE DETECTORS	20 A	1					180 VA	0 VA	--	--	Bussed Space	36
37	SMOKE DETECTORS	20 A	1	540 VA	0 VA					--	--	Bussed Space	38
39	SMOKE DETECTORS	20 A	1			300 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
			Total Load:	8852 VA		8120 VA		6500 VA					
			Total Amps:	76 A		70 A		54 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1860 VA	100.00%	1860 VA		
Power	21612 VA	100.00%	21612 VA	**Total Conn. Load:**	23472 VA
				Total Est. Demand:	23472 VA
				Total Conn.:	65 A
				Total Est. Demand:	65 A

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GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1IIFC

ADDENDUM #2.2
10.03.17

Sheet Title

PANEL SCHEDULES

Sheet No.

2E-520

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

Branch Panel: M3L

Location:
Supply From: M2L
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FC-7.03, FC-7.04, FC-7.05, FC-7.06	20 A	2	516 VA	749 VA					2	20 A	BS-10.3, FC-10.01, FC-10.02, FC-10.03	2
3	--	--	--			516 VA	749 VA			--	--	--	4
5	BS-7.1, FC-7.01, FC-7.02	20 A	2					574 VA	724 VA	2	20 A	BS-10.2, FC-10.04, FC-10.05, FC-10.06	6
7	--	--	--	574 VA	724 VA					--	--	--	8
9	BS-7.2, FC-7.07, FC-7.08, FC-7.09	20 A	2			416 VA	882 VA			2	20 A	BS10.3, FC-10.07, FC-10.08, FC-10.09	10
11	--	--	--					416 VA	882 VA	--	--	--	12
13	BS-8.3, FC-8.07, FC-8.08, FC-8.09	20 A	2	882 VA	766 VA					2	20 A	FC-9.04, FC-9.05, FC-9.06, FC-9.07	14
15	--	--	--			882 VA	766 VA			--	--	--	16
17	BS-8.2, FC-8.05, FC-8.06	20 A	2					616 VA	916 VA	2	20 A	BS-9.1, FC-9.01, FC-9.02, FC-9.03	18
19	--	--	--	616 VA	916 VA					--	--	--	20
21	BS-8.1, FC-8.04, FC-8.10	20 A	2			574 VA	0 VA			--	--	Bussed Space	22
23	--	--	--					574 VA	0 VA	--	--	Bussed Space	24
25	FC-8.01, FC-8.02, FC-8.03	20 A	2	807 VA	0 VA					--	--	Bussed Space	26
27	--	--	--			807 VA	0 VA			--	--	Bussed Space	28
29	CD-1	20 A	1					360 VA	0 VA	--	--	Bussed Space	30
31	SMOKE DETECTORS	20 A	1	540 VA	0 VA					--	--	Bussed Space	32
33	SMOKE DETECTORS	20 A	1			300 VA	0 VA			--	--	Bussed Space	34
35	SMOKE DETECTORS	20 A	1					480 VA	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
		Total Load:		7090 VA		5892 VA		5542 VA					
		Total Amps:		60 A		50 A		46 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1320 VA	100.00%	1320 VA		
Power	17204 VA	100.00%	17204 VA	**Total Conn. Load:**	18524 VA
				Total Est. Demand:	18524 VA
				Total Conn.:	51 A
				Total Est. Demand:	51 A

Branch Panel: M2L

Location:
Supply From: T-M2
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FC-3.01, FC-3.02, BS-3.1	20 A	2	591 VA	600 VA					1	20 A	SMOKE DETECTORS	2
3	--	--	--			591 VA	1020...			1	20 A	SMOKE DETECTORS	4
5	FC-4.05, FC-4.06, FC-4.07	20 A	2					400 VA	0 VA	--	--	Bussed Space	6
7	--	--	--	400 VA	0 VA					--	--	Bussed Space	8
9	FC-4.03, FC-4.04, BS-4.1	20 A	2			599 VA	0 VA			--	--	Bussed Space	10
11	--	--	--					599 VA	0 VA	--	--	Bussed Space	12
13	FC-4.01, FC4.02C BS-4.2	20 A	2	616 VA	0 VA					--	--	Bussed Space	14
15	--	--	--			616 VA	0 VA			--	--	Bussed Space	16
17	BS-6.1, FC-6.01 FC-6.02, FC-6.04	20 A	2					733 VA	0 VA	--	--	Bussed Space	18
19	--	--	--	733 VA	0 VA					--	--	Bussed Space	20
21	FC-6.03, FC-6.05, FC-6.06	20 A	2			499 VA	0 VA			--	--	Bussed Space	22
23	--	--	--					499 VA	0 VA	--	--	Bussed Space	24
25	FC-5.01, FC-5.02, FC-5.03, BS-5.2	20 A	2	849 VA	0 VA					--	--	Bussed Space	26
27	--	--	--			849 VA	0 VA			--	--	Bussed Space	28
29	BS-5.1, FC-5.03, F-5.04, FC-5.05	20 A	2					616 VA	0 VA	--	--	Bussed Space	30
31	--	--	--	616 VA	0 VA					--	--	Bussed Space	32
33	FC-5.06, FC-5.07, FC-5.08	20 A	2			849 VA	0 VA			--	--	Bussed Space	34
35	--	--	--					849 VA	0 VA	--	--	Bussed Space	36
37	FC-3.03, FC-3.04, FC-3.05	20 A	2	799 VA	7090...					3	100 A	M3L	38
39	--	--	--			799 VA	5892...			--	--	--	40
41	CD-1	20 A	1					360 VA	5542...	--	--	--	42
		Total Load:		12294 VA		11714 VA		9598 VA					
		Total Amps:		105 A		100 A		80 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	3300 VA	100.00%	3300 VA		
Power	30306 VA	100.00%	30306 VA	**Total Conn. Load:**	33606 VA
				Total Est. Demand:	33606 VA
				Total Conn.:	93 A
				Total Est. Demand:	93 A

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GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title
PANEL SCHEDULES

Sheet No.
2E-521

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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Branch Panel: M4H

Location:
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42,000
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 800 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	M4HA	200 A	3	3769...	5101...					3	200 A	M4HB	2
3	--	--	--			3769...	5101...			--	--	--	4
5	--	--	--					3769...	5101...	--	--	--	6
7	M4HC	200 A	3	5238...	8852...					3	70 A	T-M4	8
9	--	--	--			5238...	8120...			--	--	--	10
11	--	--	--					5238...	6500...	--	--	--	12
13	VRV-1A	40 A	3	8003...	3370...					3	20 A	VRV-4B	14
15	--	--	--			8003...	3370...			--	--	--	16
17	--	--	--					8003...	3370...	--	--	--	18
19	VRF-1B	40 A	3	7072...	7072...					3	40 A	VRV-8A	20
21	--	--	--			7072...	7072...			--	--	--	22
23	--	--	--					7072...	7072...	--	--	--	24
25	VRV-2A	40 A	3	7072...	8003...					3	40 A	VRV-8B	26
27	--	--	--			7072...	8003...			--	--	--	28
29	--	--	--					7072...	8003...	--	--	--	30
31	VRV-2B	40 A	3	8003...	4678...					3	25 A	VRV-5A	32
33	--	--	--			8003...	4678...			--	--	--	34
35	--	--	--					8003...	4678...	--	--	--	36
37	VRV-4A	25 A	3	4678...	7072...					3	40 A	VRV-5B	38
39	--	--	--			4678...	7072...			--	--	--	40
41	--	--	--					4678...	7072...	--	--	--	42
		Total Load:		214968 VA		214236 VA		212616 VA					
		Total Amps:		777 A		774 A		768 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1860 VA	100.00%	1860 VA		
Power	639960 VA	100.00%	639960 VA	**Total Conn. Load:**	641820 VA
				Total Est. Demand:	641820 VA
				Total Conn.:	772 A
				Total Est. Demand:	772 A

Branch Panel: M4HB

Location:
Supply From: M4H
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	VRV-6A	20 A	3	3370...	4678...					3	25 A	VRV-9B	2
3	--	--	--			3370...	4678...			--	--	--	4
5	--	--	--					3370...	4678...	--	--	--	6
7	VRV-6B	25 A	3	4678...	7072...					3	40 A	VRV-10A	8
9	--	--	--			4678...	7072...			--	--	--	10
11	--	--	--					4678...	7072...	--	--	--	12
13	VRV-7A	20 A	3	3370...	7072...					3	40 A	VRV-10B	14
15	--	--	--			3370...	7072...			--	--	--	16
17	--	--	--					3370...	7072...	--	--	--	18
19	VRV-7B	25 A	3	4678...	4678...					3	25 A	VRF-1C	20
21	--	--	--			4678...	4678...			--	--	--	22
23	--	--	--					4678...	4678...	--	--	--	24
25	VRV-3A	25 A	3	4678...	0 VA					--	--	Bussed Space	26
27	--	--	--			4678...	0 VA			--	--	Bussed Space	28
29	--	--	--					4678...	0 VA	--	--	Bussed Space	30
31	VRV-3B	20 A	3	3370...	0 VA					--	--	Bussed Space	32
33	--	--	--			3370...	0 VA			--	--	Bussed Space	34
35	--	--	--					3370...	0 VA	--	--	Bussed Space	36
37	VRV-9A	20 A	3	3370...	0 VA					--	--	Bussed Space	38
39	--	--	--			3370...	0 VA			--	--	Bussed Space	40
41	--	--	--					3370...	0 VA	--	--	Bussed Space	42
		Total Load:		51014 VA		51014 VA		51014 VA					
		Total Amps:		184 A		184 A		184 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	153042 VA	100.00%	153042 VA		
				Total Conn. Load:	153042 VA
				Total Est. Demand:	153042 VA
				Total Conn.:	184 A
				Total Est. Demand:	184 A

Branch Panel: M4HC

Location:
Supply From: M4H
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	VRV-11A	20 A	3	3370...	7072...					3	40 A	VRV-14A	2
3	--	--	--			3370...	7072...			--	--	--	4
5	--	--	--					3370...	7072...	--	--	--	6
7	VRV-11B	25 A	3	4678...	7072...					3	40 A	VRV-14B	8
9	--	--	--			4678...	7072...			--	--	--	10
11	--	--	--					4678...	7072...	--	--	--	12
13	VRV-12-A	40 A	3	7072...	7072...					3	40 A	VRV-14C	14
15	--	--	--			7072...	7072...			--	--	--	16
17	--	--	--					7072...	7072...	--	--	--	18
19	VRV-12B	40 A	3	8003...	0 VA					--	--	Bussed Space	20
21	--	--	--			8003...	0 VA			--	--	Bussed Space	22
23	--	--	--					8003...	0 VA	--	--	Bussed Space	24
25	VRV-13A	20 A	3	3370...	0 VA					--	--	Bussed Space	26
27	--	--	--			3370...	0 VA			--	--	Bussed Space	28
29	--	--	--					3370...	0 VA	--	--	Bussed Space	30
31	VRV-13B	25 A	3	4678...	0 VA					--	--	Bussed Space	32
33	--	--	--			4678...	0 VA			--	--	Bussed Space	34
35	--	--	--					4678...	0 VA	--	--	Bussed Space	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
		Total Load:		52387 VA		52387 VA		52387 VA					
		Total Amps:		189 A		189 A		189 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	157161 VA	100.00%	157161 VA		
				Total Conn. Load:	157161 VA
				Total Est. Demand:	157161 VA
				Total Conn.:	189 A
				Total Est. Demand:	189 A

Branch Panel: EPM4H

Location:
Supply From: EPH
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42,000
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 600 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EF-1A	20 A	3	942 VA	7050...					3	40 A	AHU-1A	2
3	--	--	--			942 VA	7050...			--	--	--	4
5	--	--	--					942 VA	7050...	--	--	--	6
7	EF-1B	20 A	3	942 VA	7050...					3	40 A	AHU-1B	8
9	--	--	--			942 VA	7050...			--	--	--	10
11	--	--	--					942 VA	7050...	--	--	--	12
13	SM-EF-1	100 A	3	1441...	3338...					3	175 A	AHU-2	14
15	--	--	--			1441...	3338...			--	--	--	16
17	--	--	--					1441...	3338...	--	--	--	18
19	SM-EF-2	100 A	3	1441...	1330...					3	20 A	P-1	20
21	--	--	--			1441...	1330...			--	--	--	22
23	--	--	--					1441...	1330...	--	--	--	24
25	SM-EF-3	100 A	3	1441...	1330...					3	20 A	P-2	26
27	--	--	--			1441...	1330...			--	--	--	28
29	--	--	--					1441...	1330...	--	--	--	30
31	SM-EF-4	100 A	3	1441...	305 VA					3	20 A	EXF-1	32
33	--	--	--			1441...	305 VA			--	--	--	34
35	--	--	--					1441...	305 VA	--	--	--	36
37	H-1	30 A	3	5400...	0 VA					--	--	Bussed Space	38
39	--	--	--			5400...	0 VA			--	--	Bussed Space	40
41	--	--	--					5400...	0 VA	--	--	Bussed Space	42
		Total Load:		115380 VA		115380 VA		115380 VA					
		Total Amps:		417 A		417 A		417 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	346140 VA	100.00%	346140 VA		
				Total Conn. Load:	346140 VA
				Total Est. Demand:	346140 VA
				Total Conn.:	416 A
				Total Est. Demand:	416 A

Branch Panel: EPM4L

Location:
Supply From: EPM
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SSCU-1.1A	20 A	2	1622...	1622...					2	20 A	SSCU-3.2B	2
3	--	--	--			1622...	1622...			--	--	--	4
5	SSCU-1.1B	20 A	2					1622...	1622...	2	20 A	SSCU-3.2A	6
7	--	--	--	1622...	1622...					--	--	--	8
9	SSCU-1.2	20 A	2			1523...	1622...			2	20 A	SSCU-3.1B	10
11	--	--	--					1523...	1622...	--	--	--	12
13	SSCU-1.3A	20 A	2	1522...	1622...					2	20 A	SSCU-4.2A	14
15	--	--	--			1522...	1622...			--	--	--	16
17	SSCU-1.3B	20 A	2					1522...	1622...	2	20 A	SSCU-4.2B	18
19	--	--	--	1522...	1622...					--	--	--	20
21	SSCU-2.1A	20 A	2			1622...	1522...			2	20 A	SSCU-4.3A	22
23	--	--	--					1622...	1522...	--	--	--	24
25	SSCU-2.1B	20 A	2	1622...	1522...					2	20 A	SSCU-4.3B	26
27	--	--	--			1622...	1522...			--	--	--	28
29	SSCU-2.2A	20 A	2					1522...	1622...	2	20 A	SSCU-1.4A	30
31	--	--	--	1522...	1622...					--	--	--	32
33	SSCU-2.2B	20 A	2			1522...	1622...			2	20 A	SSCU-1.4B	34
35	--	--	--					1522...	1622...	--	--	--	36
37	SSCU-3.1A	20 A	2	1622...	0 VA					--	--	Bussed Space	38
39	--	--	--			1622...	0 VA			--	--	Bussed Space	40
41	EF-6	30 A	1					1920...	0 VA	--	--	Bussed Space	42
		Total Load:		20687 VA		20587 VA		20885 VA					
		Total Amps:		173 A		172 A		174 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	62160 VA	100.00%	62160 VA		
				Total Conn. Load:	62160 VA
				Total Est. Demand:	62160 VA
				Total Conn.:	173 A
				Total Est. Demand:	173 A

Branch Panel: EPM4LA

Location:
Supply From: EPM
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SSCU-4.1	20 A	2	1372...	1800...					3	30 A	COLD ROOM REFRIGERATION RACK	2
3	--	--	--			1372...	1800...			--	--	--	4
5	SSCU-3.1C	20 A	2					1622...	1800...	--	--	--	6
7	--	--	--	1622...	1800...					3	30 A	COLD ROOM REFRIGERATION RACK	8
9	SSCU-1.6	20 A	2			1622...	1800...			--	--	--	10
11	--	--	--					1622...	1800...	--	--	--	12
13	SSCU-1.5A	35 A	2	2421...	1800...					3	30 A	COLD ROOM REFRIGERATION RACK	14
15	--	--	--			2421...	1800...			--	--	--	16
17	SSCU-1.5B	35 A	2					2421...	1800...	--	--	--	18
19	--	--	--	2421...	1800...					3	30 A	COLD ROOM REFRIGERATION RACK	20
21	B-1 BOILER/PUMP	40 A	1			2640...	1800...			--	--	--	22
23	B-2 BOILER/PUMP	40 A	1					2640...	1800...	--	--	--	24
25	B-3 BOILER/PUMP	40 A	1	2640...	1800...					3	30 A	COLD ROOM REFRIGERATION RACK	26
27	H-1 ENCLOSURE VENT FAN	20 A	1			840 VA	1800...			--	--	--	28
29	DH-1, SSFC-4.1	60 A	2					2404...	1800...	--	--	--	30
31	--	--	--	2404...	1800...					3	30 A	COLD ROOM REFRIGERATION RACK	32
33	SMOKE DETECTORS	20 A	1			180 VA	1800...			--	--	--	34
35								1800...	--	--	--	--	36
37	Bussed Space	--	--	0 VA	0 VA					--	--	Bussed Space	38
39	Bussed Space	--	--			0 VA	0 VA			--	--	Bussed Space	40
41	Bussed Space	--	--					0 VA	0 VA	--	--	Bussed Space	42
		Total Load:		23680 VA		19875 VA		21509 VA					
		Total Amps:		199 A		166 A		181 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	180 VA	100.00%	180 VA		
Power	64884 VA	100.00%	64884 VA	**Total Conn. Load:**	65064 VA
				Total Est. Demand:	65064 VA
				Total Conn.:	181 A
				Total Est. Demand:	181 A

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title
PANEL SCHEDULES

Sheet No.
2E-522

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A. General Information

Climate Zone: 7	Conditioned Floor Area: 123,571						
	Unconditioned Floor Area: 2,337						
Building Type:	☑	Nonresidential	☐	High-Rise Residential	☐	Hotel/Motel
☐ Schools	☐	Relocatable Public Schools	☑	Conditioned Spaces	☑	Unconditioned Spaces
Phase of Construction:	☑	New Construction	☐	Addition	☐	Alteration
Method of Compliance:	☐	Complete Building	☑	Area Category	☐	Tailored
Project Address: Terman Court						

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
☑	☐	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
☑	☐	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
☑	☐	NRCC-LTI-03-E	Indoor Lighting Power Allowance
☐	☑	NRCC-LTI-04-E	Tailored Method Worksheets
☐	☑	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
☐	☐	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	79,676	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	1,106
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+				
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	79,676	Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	1,106
	Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)			Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)		
05	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		122,882	**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		1,397

D. Declaration of Required Certificates of Installation

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Compliance Document/Title	
☑	☐	NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
☐	☑	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
☐	☑	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
☐	☑	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
☐	☑	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
☐	☑	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

E. Declaration of Required Certificates of Acceptance

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Compliance Document/Title	
☐	☑	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
☐	☑	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
☐	☑	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
☐	☑	NRCA-LTI-05-A – Must be submitted for institutional tuning power adjustment factor (PAF).	☐ Field Inspector

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☐ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- ☐ This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
- ☐ This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- ☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule			Office Installed Portable Luminaire W/ft²					Office Location	Field Inspector	
1	2	3	4	5	6	7	8	9	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; if G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
									☐	☐
									☐	☐
									☐	☐
									☐	☐
									☐	☐
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 1		

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Indoor Lighting	(Page 5 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NAB	How wattage was determined: According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
	Designed Allowance: 800 sqft at 0.600 watt/sf		☐	☐		480	Office > 250 sqft	☐	☐
E1	E1 LED 5W	5.0	☑	☐	2	10	Electrical, Mechanical Room	☐	☐
E1	E1 LED 5W	5.0	☑	☐	2	10	Laboratory, Scientific	☐	☐
E1	E1 LED 5W	5.0	☑	☐	14	70	Corridor/Restroom/Support	☐	☐
E1	E1 LED 5W	5.0	☑	☐	12	60	Office > 250 sqft	☐	☐
F1	F1 LED 5W	5.0	☑	☐	4	20	All Others	☐	☐
F1	F1 LED 5W	5.0	☑	☐	68	340	Corridor/Restroom/Support	☐	☐
F1	F1 LED 5W	5.0	☑	☐	142	710	Office > 250 sqft	☐	☐
F1	F1 LED 5W	5.0	☑	☐	35	175	Office <= 250 sqft	☐	☐
				INSTALLED WATTS PAGE TOTAL:		1,875	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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Indoor Lighting	(Page 5 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NAB	How wattage was determined: According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
F1	F1 LED 5W	5.0	☑	☐	98	490	Laboratory, Scientific	☐	☐
F1	F1 LED 5W	5.0	☑	☐	24	120	Electrical, Mechanical Room	☐	☐
F10	F10 LED 41W	41.0	☑	☐	47	1,927	Office > 250 sqft	☐	☐
F10	F10 LED 41W	41.0	☑	☐	16	656	Corridor/Restroom/Support	☐	☐
F10	F10 LED 41W	41.0	☑	☐	2	82	Office <= 250 sqft	☐	☐
F10	F10 LED 41W	41.0	☑	☐	11	451	Electrical, Mechanical Room	☐	☐
F10	F10 LED 41W	41.0	☑	☐	8	328	Industrial Work, High Bay	☐	☐
F12	F12 LED 102W	102.0	☑	☐	5	510	Corridor/Restroom/Support	☐	☐
F12	F12 LED 102W	102.0	☑	☐	2	204	Electrical, Mechanical Room	☐	☐
				INSTALLED WATTS PAGE TOTAL:		4,768	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NAB	How wattage was determined: According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
F13	F13 LED 6W	6.0	☑	☐	33	198	Office > 250 sqft	☐	☐
F13	F13 LED 6W	6.0	☑	☐	8	48	Electrical, Mechanical Room	☐	☐
F13	F13 LED 6W	6.0	☑	☐	6	36	Laboratory, Scientific	☐	☐
F13	F13 LED 6W	6.0	☑	☐	54	324	Corridor/Restroom/Support	☐	☐
F14	F14 LED 30W	30.0	☑	☐	1	30	Office > 250 sqft	☐	☐
F14	F14 LED 30W	30.0	☑	☐	4	120	Corridor/Restroom/Support	☐	☐
F14	F14 LED 30W	30.0	☑	☐	1	30	Electrical, Mechanical Room	☐	☐
F15	F15 LED 180W	180.0	☑	☐	1	180	All Others	☐	☐
F17	F17 LED 180W	180.0	☑	☐	4	720	Office > 250 sqft	☐	☐
				INSTALLED WATTS PAGE TOTAL:		1,686	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
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A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NAB	How wattage was determined: According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
F18	F18 LED 48W	48.0	☑	☐	1	48	Corridor/Restroom/Support	☐	☐
F19	F19 LED 44W	44.0	☑	☐	1	44	Corridor/Restroom/Support	☐	☐
F1A	F1A LED 46W	46.0	☑	☐	20	920	Laboratory, Scientific	☐	☐
F2	F2 LED 64W	64.0	☑	☐	4	256	Industrial Work, Precision	☐	☐
F2	F2 LED 64W	64.0	☑	☐	792	50,688	Laboratory, Scientific	☐	☐
F21	F21 LED 75W	75.0	☑	☐	2	150	Laboratory, Scientific	☐	☐
F22	F22 LED 76W	76.0	☑	☐	4	304	Industrial Work, High Bay	☐	☐
F25	F25 LED 149W	149.0	☑	☐	2	298	Office <= 250 sqft	☐	☐
F25	F25 LED 149W	149.0	☑	☐	39	5,811	Industrial Work, High Bay	☐	☐
				INSTALLED WATTS PAGE TOTAL:		58,519	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NAB	How wattage was determined: According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
F27	F27 LED 180W	180.0	☑	☐	3	540	All Others	☐	☐
F28	F28 LED 5W	5.0	☑	☐	4	20	Electrical, Mechanical Room	☐	☐
F28	F28 LED 5W	5.0	☑	☐	32	160	Corridor/Restroom/Support	☐	☐
F28	F28 LED 5W	5.0	☑	☐	6	30	All Others	☐	☐
F28	F28 LED 5W	5.0	☑	☐	13	65	Office > 250 sqft	☐	☐
F28	F28 LED 5W	5.0	☑	☐	8	40	Laboratory, Scientific	☐	☐
F3	F3 LED 20W	20.0	☑	☐	2	40	Laboratory, Scientific	☐	☐
F30	F30 LED 35W	35.0	☑	☐	4	140	All Others	☐	☐
F4	F4 LED 32W	32.0	☑	☐	8	256	Corridor/Restroom/Support	☐	☐
				INSTALLED WATTS PAGE TOTAL:		1,291	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title
TITLE 24

Sheet No.
2E-701

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §150.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
F4	F4 LED 32W	32.0	☑	☐	12	384	Electrical, Mechanical Room	☐	☐
F5	F5 LED 24W	24.0	☑	☐	14	336	Office <= 250 sqft	☐	☐
F5	F5 LED 24W	24.0	☑	☐	200	4,800	Laboratory, Scientific	☐	☐
F5	F5 LED 24W	24.0	☑	☐	37	888	All Others	☐	☐
F5	F5 LED 24W	24.0	☑	☐	32	768	Office > 250 sqft	☐	☐
F5	F5 LED 24W	24.0	☑	☐	88	2,112	Corridor/Restroom/Support	☐	☐
F6	F6 LED 128W	128.0	☑	☐	1	128	Office > 250 sqft	☐	☐
F6	F6 LED 128W	128.0	☑	☐	3	384	All Others	☐	☐
F7	F7 LED 128W	128.0	☑	☐	1	128	Office > 250 sqft	☐	☐
				INSTALLED WATTS PAGE TOTAL:		9,928	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §150.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
F7	F7 LED 128W	128.0	☑	☐	1	128	Office <= 250 sqft	☐	☐
F7	F7 LED 128W	128.0	☑	☐	2	256	All Others	☐	☐
F8	F8 LED 10W	10.0	☑	☐	21	210	Corridor/Restroom/Support	☐	☐
	Standard Allowance: 1015 sqft at 1.000 watt/s		☐	☐		1,015	Industrial Work, High Bay	☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
				INSTALLED WATTS PAGE TOTAL:		1,609	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
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H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §150.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
F16	F16 LED 11W	11.0	☑	☐	12	132	Corridor/Restroom/Support	☐	☐
	Standard Allowance: 108 sqft at 0.550 watt/sf		☐	☐		59	Electrical, Mechanical Room	☐	☐
	Standard Allowance: 124 sqft at 0.600 watt/sf		☐	☐		74	Corridor/Restroom/Support	☐	☐
	Standard Allowance: 700 sqft at 0.600 watt/sf		☐	☐		420	Corridor/Restroom/Support	☐	☐
	Standard Allowance: 700 sqft at 0.600 watt/sf		☐	☐		420	Corridor/Restroom/Support	☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
				INSTALLED WATTS PAGE TOTAL:		1,106	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Stephane Beauvais	Documentation Author Signature: Stéphane N'Beauvais
Company: ELEN Consulting Inc	Signature Date: 8/3/2017
Address: 9150 Chesapeake Drive, STE 220	CEA Certification Identification (if applicable):
City/State/Zip: San Diego, CA 92123	Phone: 619-550-1085

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Elen Consulting	Responsible Designer Signature: Stéphane N'Beauvais
Company: Elen Consulting	Date Signed: 8/3/2017
Address: 9150 Chesapeake Dr., Ste. 220	License: E19108
City/State/Zip: San Diego, CA 92123	Phone: 619-550-1085

8/7/2017 3:58:56 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title
TITLE 24

Sheet No.
2E-702

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

STATE OF CALIFORNIA
INDOOR LIGHTING LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
☐	☑	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
☐	☑	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
☐	☑	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
☐	☑	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
☑	☐	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
☐	☑	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
☑	☐	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
☐	☑	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
☐	☑	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
☐	☑	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
☐	☑	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
☑	☐	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]				Field Inspector	
										Watts of Controlled Lighting	PAF	Control Credit (K x L)	✓ if Acceptance Test Required		
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
												Control Credit PAGE TOTAL (Sum of Column 13):		0	
												IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):		0	
														Enter Control Credit total into NRCC-LTI-01-E; Page 1.	

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☐ CONDITIONED SPACES ☑ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]				Field Inspector	
										Watts of Controlled Lighting	PAF	Control Credit (K x L)	✓ if Acceptance Test Required		
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
												Control Credit PAGE TOTAL (Sum of Column 13):		0	
												IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):		0	
														Enter Control Credit total into NRCC-LTI-01-E; Page 1.	

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Stephane Beauvais	Documentation Author Signature:	Stephane N Beauvais
Company:	ELEN Consulting Inc	Signature Date:	8/3/2017
Address:	9150 Chesapeake Drive, STE 220	CEA Certification Identification (if applicable):	
City/State/Zip:	San Diego, CA 92123	Phone:	619-550-1085

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Elen Consulting	Responsible Designer Signature:	Stephane N Beauvais
Company :	Elen Consulting	Date Signed:	8/3/2017
Address:	9150 Chesapeake Dr., Ste. 220	License:	E19108
City/State/Zip:	San Diego, CA 92123	Phone:	619-550-1085

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)		(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)			
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)			122,882
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E			0
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1			122,882

☑ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES — **Watts**

Total from section C-2.	122,882
Total from section C-3.	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	122,882
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
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A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)		(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)			
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)			1,397
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E			0
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1			1,397

☑ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES — **Watts**

Total from section C-2.	1,397
Total from section C-3.	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	1,397
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft²	X	AREA (ft²)	=	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
VAV-9 (3rd Level - Lobby)	Corridor/Restroom/Support	0.60		500		300
VAV-8 (3rd &4th Level - Atrium)	Corridor/Restroom/Support	0.60		2,741		1,645
VAV-7 (2nd Level - Lobby)	Corridor/Restroom/Support	0.60		500		300
VAV-6 (2nd Level - Atrium (West))	Corridor/Restroom/Support	0.60		2,741		1,645
VAV-5 (2nd Level - Atrium (East))	Corridor/Restroom/Support	0.60		2,741		1,645
VAV-1.01 (1st Level * Reception)	Office <= 250 sqft	1.00		500		500
VAV-1.02 (1st Level - Lobby)	Corridor/Restroom/Support	0.60		2,151		1,291
VAV-1.03 (Underground)	Corridor/Restroom/Support	0.60		1,180		708
RH-1.1.1 (1.02)	Laboratory, Scientific	1.40		426		596
RH-1.1.2 (1.03)	Laboratory, Scientific	1.40		240		336
RH-1.1.3 (1.04)	Laboratory, Scientific	1.40		175		245
RH-1.1.4 (1.07)	Laboratory, Scientific	1.40		165		231
RH-1.1.5 (1.05 & 1.06)	Laboratory, Scientific	1.40		170		238
RH-1.1.6 (1.01)	Laboratory, Scientific	1.40		105		147
RH-2.2.1	Laboratory, Scientific	1.40		1,275		1,785
RH-2.2.2	Laboratory, Scientific	1.40		1,000		1,400
				TOTALS		16,610
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						13,011
						WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

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C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
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☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft²	X	AREA (ft²)	=	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
RH-2.2.3	Laboratory, Scientific	1.40		625		875
RH-2.2.4	Laboratory, Scientific	1.40		600		840
RH-2.3.1	Laboratory, Scientific	1.40		600		840
RH-2.3.2	Laboratory, Scientific	1.40		175		245
RH-2.3.3	Laboratory, Scientific	1.40		360		504
RH-2.4.1	Laboratory, Scientific	1.40		420		588
RH-2.4.2	Laboratory, Scientific	1.40		139		195
RH 2.4.3	Laboratory, Scientific	1.40		560		784
Main Elec 112	Electrical, Mechanical Room	0.55		232		128
Machine Room 22	Electrical, Mechanical Room	0.55		95		52
Machine Room 246	Electrical, Mechanical Room	0.55		35		19
IDF 116	Electrical, Mechanical Room	0.55		140		77
Elec 216	Electrical, Mechanical Room	0.55		100		55
IT 214	Electrical, Mechanical Room	0.55		140		77
Elec 332	Electrical, Mechanical Room	0.55		100		55
MDF/Server 330	Electrical, Mechanical Room	0.55		740		407
				TOTALS		5,061
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						5,741
						WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
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Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

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C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft²	X	AREA (ft²)	=	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
Dry room 453	Laboratory, Scientific	1.40		167		234
Elec 434	Electrical, Mechanical Room	0.55		100		55
IDF 432	Electrical, Mechanical Room	0.55		400		220
Multipurpose Room 110C (Int)	All Others	0.50		1,045		523
Multipurpose Room 110C (Ext)	All Others	0.50		1,000		500
Multipurpose Room 110B (Int)	All Others	0.50		840		420
Multipurpose Room 110B (Ext)	All Others	0.50		840		420
Multipurpose Room 110A (Int)	All Others	0.50		660		330
Multipurpose Room 110A (Ext)	All Others	0.50		570		285
Servery 111-Wash 112-Dish Drop Off 109	All Others	0.50		1,440		720
Restrooms & Corridor	Corridor/Restroom/Support	0.60		2,840		1,704
Storage	Corridor/Restroom/Support	0.60		1,300		780
Fac Office 149	Office > 250 sqft	0.75		105		79
Facilites Shop 151	Office > 250 sqft	0.75		865		649
Warehouse 140 (W Int)	Industrial Work, High Bay	1.00		3,135		3,135
Main Utility 110	Electrical, Mechanical Room	0.55		560		308
				TOTALS		15,867
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						10,361
						WATTS

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED IN WHOLE OR IN PART BY ANY PERSON OR ENTITY FOR ANY OTHER PROJECT WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED
8/7/2017 3:58:57 PM

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL

CITY SUBMITTAL SET
08.08.17

Sheet Title
TITLE 24

Sheet No.
2E-703

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: BioLegend CP-2	Date Prepared: 8/3/2017

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C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
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☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft²	X	AREA (ft²)	=	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
Comm 414	All Others	0.50		251		126
Breakroom 410	Office > 250 sqft	0.75		360		270
Flow PD/CST TC 415	Laboratory, Scientific	1.40		1,085		1,519
Flow PD 413 (n)	Laboratory, Scientific	1.40		800		1,120
Flow PD 413 (mid-n)	Laboratory, Scientific	1.40		750		1,050
Flow PD 413 (mid)	Laboratory, Scientific	1.40		700		980
Flow PD 413 (mid-s)	Laboratory, Scientific	1.40		750		1,050
Flow PD 413 (s)	Laboratory, Scientific	1.40		750		1,050
Phlebotomy 411	Laboratory, Scientific	1.40		217		304
Dark Room 450 (HEPA)	Laboratory, Scientific	1.40		148		207
HYB TC 1 470	Laboratory, Scientific	1.40		594		832
IF/PD-QC 454	Laboratory, Scientific	1.40		594		832
HYB Lab 472	Laboratory, Scientific	1.40		600		840
HYB Lab 472	Laboratory, Scientific	1.40		540		756
HYB TC 2 474	Laboratory, Scientific	1.40		581		813
Darkroom 472A + Hall	Laboratory, Scientific	1.40		900		1,260
			TOTALS	9,620		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						13,008
						WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance (Page 2 of 4)
Project Name: BioLegend CP-2 Date Prepared: 8/3/2017
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C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
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01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft²	X	AREA (ft²)	=	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
Open Office 480 + Hall	Office > 250 sqft	0.75		800		600
Flex 482 & 484, tele 486	Office <= 250 sqft	1.00		283		283
Comm Room 488	All Others	0.50		177		89
Restrooms & North Hall 402	Corridor/Restroom/Support	0.60		1,765		1,059
Flow Core 421	Laboratory, Scientific	1.40		770		1,078
Flow Core 421	Laboratory, Scientific	1.40		545		763
Flow Core 421	Laboratory, Scientific	1.40		545		763
Lyo 451	Laboratory, Scientific	1.40		337		472
Flow QC TC - 473	Laboratory, Scientific	1.40		249		349
Flow QC Mouse/Human Lab 475	Laboratory, Scientific	1.40		900		1,260
Flow QC Mouse/Human Lab 475	Laboratory, Scientific	1.40		760		1,064
Flow QC Mouse/Human Lab 475	Laboratory, Scientific	1.40		760		1,064
Flow QC Mouse/Human Lab 475	Laboratory, Scientific	1.40		760		1,064
Open Office 481	Office > 250 sqft	0.75		800		600
Comm 483	Office > 250 sqft	0.75		185		139
Flex 487	Office > 250 sqft	0.75		128		96
			TOTALS	9,764		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						10,742
						WATTS

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
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CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance (Page 2 of 4)
Project Name: BioLegend CP-2 Date Prepared: 8/3/2017
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C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
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☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft²	X	AREA (ft²)	=	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
Tele 489	Office <= 250 sqft	1.00		67		67
			TOTALS	67		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						67
						WATTS

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance (Page 2 of 4)
Project Name: BioLegend CP-2 Date Prepared: 8/3/2017
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C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
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☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft²	X	AREA (ft²)	=	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
Unconditioned	Electrical, Mechanical Room	0.55		108		59
Unconditioned	Corridor/Restroom/Support	0.60		700		420
Unconditioned	Corridor/Restroom/Support	0.60		700		420
Unconditioned	Corridor/Restroom/Support	0.60		124		74
Unconditioned	Corridor/Restroom/Support	0.60		235		141
Unconditioned	Corridor/Restroom/Support	0.60		235		141
Unconditioned	Corridor/Restroom/Support	0.60		235		141
			TOTALS	2,337		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						1,397
						WATTS

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance (Page 3 of 4)
Project Name: BioLegend CP-2 Date Prepared: 8/3/2017
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C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

01	02	03 [2]	04	05	06	07
Primary Function	Sq Ft or Linear ft [1]	Additional Watts Allowed	Wattage Allowance (02 x 03)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [3]	ALLOWED WATTS Smaller of 04 or 06

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 02/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (3 x 5)	Primary Function area in which the luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
BB1	BB1 LED 26W	26.0	☑	☐	49	1,274	Pedestrian Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
PP1	PP1 LED 28W	28.0	☑	☐	20	560	Pedestrian Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
SL1	SL1 LED 7.5W	7.5	☑	☐	49	368	Pedestrian Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
					INSTALLED WATTS PAGE TOTAL:	2,202	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E, page 1.		7,622	

STATE OF CALIFORNIA
OUTDOOR LIGHTING
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CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (3 x 5)	Primary Function area in which the luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
L9	L9 LED 32W	32.0	☑	☐	3	96	Pedestrian Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
LL1	LL1 LED 4WFT	4.0	☑	☐	380	1,520	Pedestrian Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
LL2	LL2 LED 4.5WFT	4.5	☑	☐	194	873	Pedestrian Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
					INSTALLED WATTS PAGE TOTAL:	2,489	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E, page 1.		7,622	

STATE OF CALIFORNIA
OUTDOOR LIGHTING
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CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
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Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (3 x 5)	Primary Function area in which the luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
LL4	LL4 LED 60W	60.0	☑	☐	8	480	Pedestrian Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
WW1	WW1 LED 7W	7.0	☑	☐	5	35	Pedestrian Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
L8	L8 LED 39W	39.0	☑	☐	5	195	Automotive Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
					INSTALLED WATTS PAGE TOTAL:	710	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E, page 1.		7,622	

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 02/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (3 x 5)	Primary Function area in which the luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
PP1	PP1 LED 28W	28.0	☑	☐	5	140	Automotive Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
PP2	PP2 LED 28W	28.0	☑	☐	19	532	Automotive Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
AA1	AA1 LED 15W	15.0	☑	☐	51	765	Landscaping	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
					INSTALLED WATTS PAGE TOTAL:	1,437	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E, page 1.		7,622	

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 02/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
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Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (3 x 5)	Primary Function area in which the luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
AA3	AA3 LED 10W	10.0	☑	☐	4	40	Landscaping	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
UU1	UU1 LED 54W	54.0	☑	☐	6	324	Landscaping	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
LL4	LL4 LED 60W	60.0	☑	☐	7	420	Landscaping	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
					INSTALLED WATTS PAGE TOTAL:	784	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E, page 1.		7,622	

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 02/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Stephane Beauvais	Documentation Author Signature:	Stephane N Beauvais
Company:	ELEN Consulting Inc	Signature Date:	9/30/2017
Address:	9150 Chesapeake Dr Ste 220	CEA Certification Identification (if applicable):	E 19108
City/State/Zip:	San Diego, CA 92123	Phone:	(619) 550 - 1085

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Stephane Beauvais	Responsible Designer Signature:	Stephane N Beauvais
Company:	Elen Consulting	Date Signed:	9/30/2017
Address:	9150 Chesapeake St. STE 220	License:	E 19108
City/State/Zip:	San Diego, CA 92123	Phone:	619-550-1085

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 02/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

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Company:	Elen Consulting	Date Signed:	9/30/2017
Address:	9150 Chesapeake St. STE 220	License:	E 19108
City/State/Zip:	San Diego, CA 92123	Phone:	619-550-1085

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

A. Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:

- ☐ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☐ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b).
- ☑ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(c)1.
- ☑ All installed outdoor lighting shall be independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- ☐ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
- ☐ For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4.
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5.
- ☑ Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting, the outdoor lighting controls shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 2 of 3)
Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule			Standards Complying With (✓ all that apply, or enter 'E' if Exempted)						✓ if Acceptance Test Required	Field Inspector	
01	02	03	04	05	06	07	08	09	10	11	
Location and Application of Luminaires Being Controlled	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	§130.2(c) 1	§130.2(c) 2	§130.2(c) 3	§130.2(c) 4	§130.2(c) 5			Pass	Fail
Main Electric Room	Astronomical Time Switch	1		✓					☑	☐	☐
									☐	☐	☐
									☐	☐	☐
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STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)
Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E)	1.	4,286
2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.		
PER APPLICATION from Section C-1: 0 + PER UNIT LENGTH (SALES FRONTAGE) from Section C-2: 0 + PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3: 0 + PER SPECIFIC AREA from Section C-4.: 0 =	2.	0
3. **Sum Total ALLOWED** Outdoor Lighting Wattage (add rows 1 and 2)	3.	4,286

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
01	02	03	04	05	06	07	08	09
Name of Area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (802 x 803)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (805 x 806)	IWA (Watts)	804 + 807 + 808
Pedestrian Hardscape	34,882	0.040	1,395	0	0.350	0	520	1,915
Automotive Hardscape	59,267	0.040	2,371	0	0.350	0	0	2,371
							TOTAL	4,286

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 2 of 4)
Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS

- ☐ The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.
- ☐ Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION – Table 140.7-B

- ☐ Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispenser, ATM Machine Lighting
- ☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS				DESIGN WATTS				
Name of Location for Which Allowance is Claimed	Number of Qualifying Locations	Wattage Allowance per Qualifying Location	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
						Sum total allowance per application on this site:			0

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B

- ☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS				DESIGN WATTS				
Name of Location for Which Allowance is Claimed	Linear Feet of Sales Frontage	Wattage Allowance per Linear Foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
						Sum total allowance for sales frontage on the site::			0

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 3 of 4)
Project Name: BioLegend CP-2	Date Prepared: 9/30/2017

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) – Table 140.7-B

- ☐ Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.
- ☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS				DESIGN WATTS				
Name of area for which ornamental allowance is claimed	Square Feet of Hardscape	Wattage Allowance per Square Foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
						Sum total allowance for ornamental lighting on the site::			0

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B

- ☐ Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardscape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Tunnels; Guard Stations; Student Pick-up/Drop-off zone: Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.
- ☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS				DESIGN WATTS				
Name of Location for Which Allowance is Claimed	Illuminated Area of Application	Wattage Allowance per square Foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
						Sum total allowance for specific area on the site:			0

10/2/2017 11:27:47 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title
TITLE 24

2.2
Sheet No.
2E-705

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

4/21/2017 12:19:54 PM



1 ELECTRICAL SITE PLAN

1" = 30'-0"

NORTH

SHEET GENERAL NOTES

1. -

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	TRANSFORMER TO BE PROVIDED BY SDG&E.
2	NEW GENERATOR. SEE SINGLE LINE DIAGRAM ON SHEET 2E-601 FOR INFORMATION.
3	PROVIDE 277V, 1PH POWER FOR LIGHTING UNDER BRIDGE.
4	PROVIDE 277V, 1PH POWER FOR BRIDGE RAIL LIGHTING.
5	PROVIDE 120V, 20A, 1PH POWER FOR LEGRAND OUTDOOR GROUND BOX MODEL #XB814 WITH 2-GANG, 20A DUPLEX RECEPTACLE COVER ASSEMBLY MODEL #XB814C520.
6	PROVIDE 277V, 1PH POWER FOR SIGN LIGHTING.
7	PROVIDE 277V, 1PH POWER HANDRAIL LIGHTING.
8	PROVIDE 277V, 1PH POWER FOR LED TAPE LIGHTING LOCATED WITHIN A GROVE THE LENGTH OF THE STAIR CHEEK WALL.
9	PROVIDE 277V, 1PH POWER FOR LED TAPE LIGHTING LOCATED UNDERNEATH BENCH.
10	PROVIDE 277V, 1PH POWER FOR STAIR STEP LIGHTS.
11	PROVIDE 4" EMPTY CONDUIT TO RUN CABLE FROM HANDHOLE LOCATED BEHIND STEPS TO HANDHOLE LOCATED BY STAGE.
12	PROVIDE HANDHOLE TO RUN CABLE FOR EVENT AUDIO AND POWER.
13	PROVIDE 120V, GFCI, WEATHERPROOF RECEPTACLE FOR PATIO.
14	PROVIDE 277V, 1PH POWER FOR PATIO LIGHTING.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT

DESIGN DEVELOPMENT SET
04.25.17

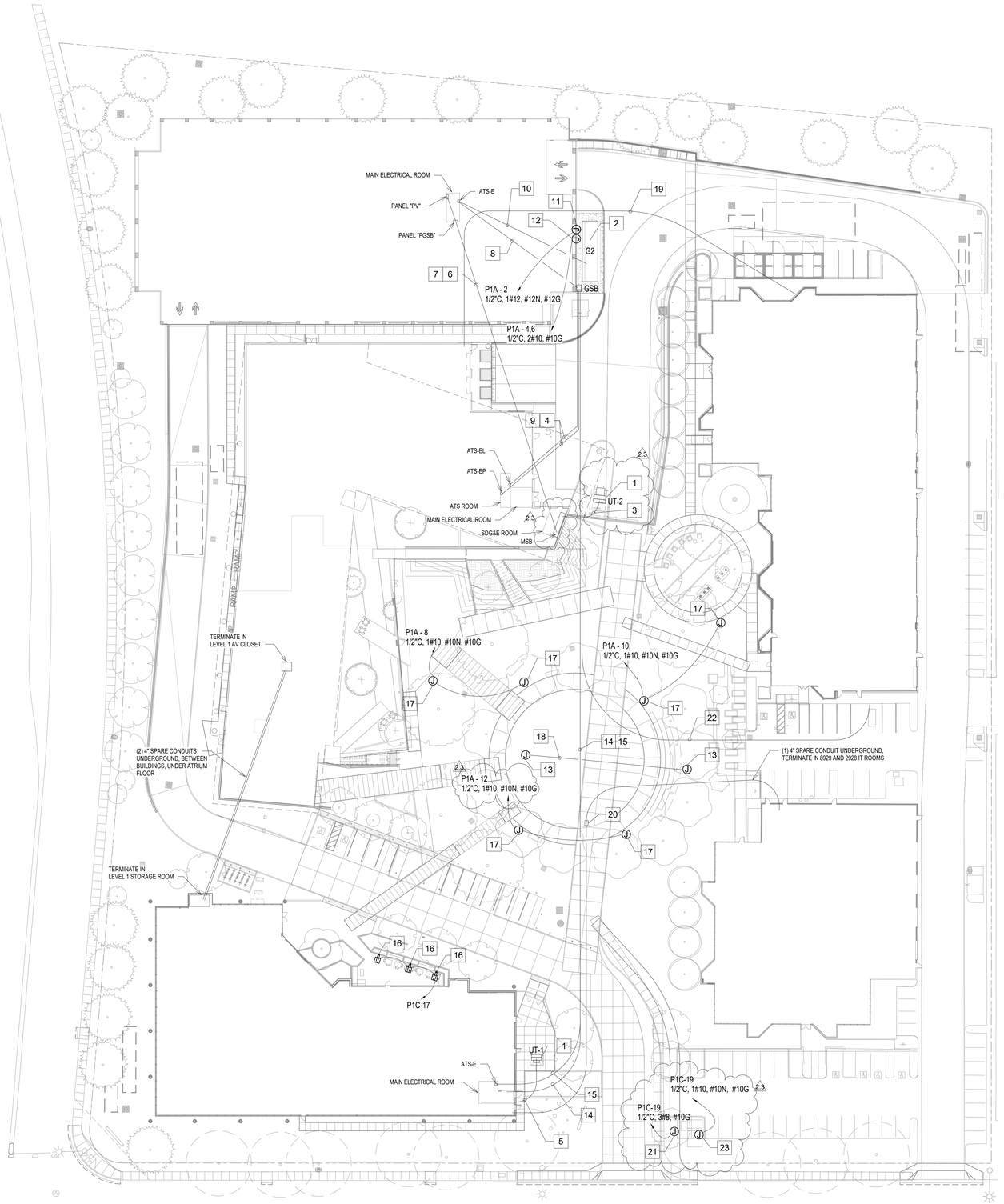
Sheet Title

ELECTRICAL SITE PLAN

Sheet No.

ES-101

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002



1 ELECTRICAL SITE PLAN

1" = 30'-0"

NORTH

SHEET GENERAL NOTES

1. ALL EXTERIOR DEVICES TO BE WEATHER PROOF.
2. PANEL "P1A" LOCATED IN NEW BUILDING MAIN ELECTRICAL ROOM.
3. PANEL "P1C" LOCATED IN BLDG 8928 MAIN ELECTRICAL ROOM.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	TRANSFORMER TO BE PROVIDED BY SDG&E.
2	GENERATOR. SEE SINGLE LINE DIAGRAM ON SHEET 2E-501 FOR INFORMATION.
3	SERVICE CONDUITS AND CONDUCTORS. SEE FEEDER SCHEDULE ON SHEET 2E-502 FOR SIZES.
4	SEE FEEDER SCHEDULE ON SHEET 2E-502 FOR ATS FEEDER CONDUIT AND CONDUTOR SIZES.
5	SERVICE CONDUITS AND CONDUTORS. PROVIDE (3)3-1/2C, 3-600kcmil, 600kcmil N. SEE BLDG 8928 CP-1 ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
6	PROVIDE 3-1/2"C, 3-600kcmil, 600kcmil N, #2G, FOR PARKING GARAGE PANEL "PV". SEE PARKING GARAGE CP-3 ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
7	PROVIDE (2)3"C, 3-350kcmil, 350kcmil N, #1G, FOR PARKING GARAGE SWITCHBOARD "PGSB". SEE PARKING GARAGE CP-3 ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
8	PROVIDE 1-1/4"C, 3#4, #4N, #10G, FOR PARKING GARAGE ATS "ATS-E". SEE PARKING GARAGE CP-3 ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
9	PROVIDE ADDITIONAL 1-1/2"C FROM GENERATOR TO ATS'S TO ACCOMODATE CONTROL WIRING.
10	PROVIDE 1-1/2C" FROM GENERATOR TO ATS TO ACCOMODATE CONTROL WIRING.
11	PROVIDE 120V POWER FOR BATTERY CHARGER.
12	PROVIDE 208V 1PH POWER FOR JACKET HEATER.
13	PROVIDE 12"x24" HANDHOLE TO RUN CABLE FOR EVENT AUDIO AND POWER.
14	PROVIDE (1) 3-1/2" CONDUIT WITH PULLSTRING FROM GENERATOR SWITCHBOARD FOR FUTURE ATS POWER AND (1) 1-1/2" CONDUIT WITH PULLSTRING FROM GENERATOR FOR FUTURE ATS CONTROL WIRING. SEE BLDG 8928 TI CP-1 ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
15	PROVIDE 1-1/2"C, 3#1, #1N, #8G, FOR BLDG 8928 ATS "ATS-E" AND (1) 1-1/2" CONDUIT FROM GENERATOR TO "ATS-E" TO ACCOMDATE CONTROL WIRING. SEE BLDG 8928 TI CP-1 ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
16	PROVIDE 120V, GFCI, WEATHERPROOF RECEPTACLE FOR PATIO. CIRCUIT FROM PANEL "P1C" LOCATED IN BLDG 8928 ELECTRICAL ROOM 123.
17	PROVIDE 120V, 20A, 1PH POWER FOR LEGRAND OUTDOOR GROUND BOX MODEL #XB814 WITH 2-GANG, 20A DUPLEX RECEPTACLE COVER ASSEMBLY MODEL #XB814C520.
18	PROVIDE 4" EMPTY CONDUIT TO RUN CABLE FROM HANDHOLE LOCATED BEHIND STEPS TO HANDHOLE LOCATED BY STAGE.
19	PROVIDE (1) 4" SPARE CONDUIT UNDERGROUND. TIE INTO EXISTING PULL BOX ON NORTH SIDE OF AND TERMINATE ON INSIDE OF WAREHOUSE WALL OF NEW BUILDING.
20	PROVIDE TRAFFIC RATED COMMUNICATION HAND HOLE AT GRADE IN FIRE LANE.
21	PROVIDE 208V, 3PH POWER FOR IRRIGATION BOOSTER PUMP. CIRCUIT FROM PANEL "P1C" LOCATED IN BLDG 8928 ELECTRICAL ROOM 123. COORDINATE LOCATION AND REQUIREMENTS WITH LANDSCAPE DRAWINGS PRIOR TO ROUGH-IN.
22	PROVIDE (1) 4" CONDUIT WITH PULLSTRING FROM GENERATOR SWITCHBOARD TO BUILDING 8959 FOR FUTURE POWER AND (1) 1-1/2" CONDUIT WITH PULLSTRING FROM GENERATOR FOR FUTURE CONTROL WIRING.
23	PROVIDE 120V POWER FOR IRRIGATION CONTROLLER. CIRCUIT FROM PANEL "P1C" LOCATED IN BLDG 8928 ELECTRICAL ROOM 123. COORDINATE LOCATION AND REQUIREMENTS WITH LANDSCAPE DRAWINGS PRIOR TO ROUGH-IN.

GENE THEORY -
CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM #2.2
10.03.17

Sheet Title
SITE ELECTRICAL PLAN

Sheet No.
ES-101

11/17/2017 4:31:39 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



SHEET GENERAL NOTES

1. THIS SHEET TO BE USED FOR CIRCUITING INFORMATION ONLY. REFER TO LIGHTING DESIGNER "LT" SERIES SHEETS FOR SITE LIGHTING NOTES, SCHEDULES AND INFORMATION UNO.
2. PANEL "LT1" LOCATED IN NEW BUILDING MAIN ELECTRICAL ROOM.
3. PANEL "LTG1" LOCATED IN BLDG 8928 MAIN ELECTRICAL ROOM.
4. CIRCUIT SITE LIGHTING VIA ASTRONOMICAL TIME CLOCK.

RFI 2-00002 Clarification of Site Lighting & Light Fixtures

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
1	PROVIDE 277V, 1PH POWER FOR LED TAPE LIGHTING LOCATED UNDERNEATH BENCH.
2	PROVIDE 277V, 1PH POWER FOR TAPE LIGHTING LOCATED ON THE SIDE OF BRIDGE.
3	PROVIDE 277V, 1PH POWER FOR RECESSED LIGHTING UNDER BRIDGE. LOCATE JUNCTION BOX ON BACKSIDE OF BRIDGE COLUMN.
4	PROVIDE 277V, 1PH POWER FOR ILLUMINATED HANDRAILS. LOCATE JUNCTION BOX ON BACKSIDE OF BRIDGE COLUMN.
5	PROVIDE 120V POWER FOR (2) TYPE TL-1 FIXTURES. PROVIDE CIRCUIT FROM PANEL "P1A" IN BUILDING 8928 ELECTRICAL ROOM. PROVIDE ADDITIONAL 1" CONDUIT FOR DATA. SEE LIGHTING DESIGNER "LT" SERIES SHEETS FOR MORE INFORMATION.
6	SEE LUMINAIRE SCHEDULE ON SHEET 2E-503 FOR INFORMATION ON TYPE "L1" AND TYPE "L3" FIXTURES.
7	LIGHT FIXTURES TO BE CIRCUITED TO EMERGENCY POWER.

RFI 2-00002 Clarification of Site Lighting & Light Fixtures

NORTH

1 **SITE LIGHTING PLAN**

/ 1" = 30'-0"

GENE THEORY - CP-2
VOLUME: 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL
2.1	08.29.17	ADDENUMDUM #2.1
2.2	10.03.17	ADDENUMDUM #2.2

ADDENDUM #2.2
10.03.17

Sheet Title
SITE LIGHTING PLAN

Sheet No.
ES-102

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

10/2/2017 10:42:06 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

PIPE MATERIALS SCHEDULE

DOMESTIC WATER PIPING ABOVE & BELOW GRADE, INSIDE BUILDING:

1. TYPE "L" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS CONFORMING TO ASTM B 16.22.
2. ANY WATER PIPING LOCATED BELOW GRADE SHALL BE TYPE "K" COPPER TUBING ANNEALED, WITH BRAZED JOINTS WRAPPED IN PE FILM.

CONDENSATE PIPING:

1. FOR COOLING COILS: TYPE "M" COPPER CONFORMING TO ASTM B 88M, TYPE C WITH WROUGHT COPPER FITTINGS CONFORMING TO ASTM B 16.22M. PROVIDE INSULATION ON ALL CONDENSATE PIPING WITHIN AND ON EXTERIOR OF BUILDING.
2. FOR CONDENSING FLUES: CPVC PIPE AND FITTINGS CONFORMING TO ASTM F 2618. ALL PIPE FITTINGS AND CEMENT SHALL BE LISTED BY NSF INTERNATIONAL FOR CHEMICAL WASTE SERVICE AND BEAR THE MARK "NSF-CW".

SEWER WASTE & STORM DRAIN PIPING BELOW GRADE:

1. SOLID-WALL PVC PIPE, ASTM D 2665, DRAIN, WASTE AND VENT PIPING. PVC SOCKET FITTINGS CONFORMING TO ASTM D 2665, SOCKET TYPE, MADE TO ASTM D 3311 DRAIN, WASTE, AND VENT PATTERNS. INSTALL BELOW SLAB/GRADE PVC PIPING PER ASTM D 2321.

SEWER WASTE & STORM DRAIN PIPING ABOVE GRADE:

1. CAST IRON "NO-HUB" CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND 300 SERIES STAINLESS STEEL CLAMPING DEVICE CONFORMING TO CISPI 310.

   A. DRAIN PIPING: HEAVY DUTY, SHIELDED. STAINLESS-STEEL COUPLINGS: WITH STAINLESS-STEEL SHIELD, STAINLESS-STEEL BANDS AND TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE.

   B. VENT PIPING: STANDARD, SHIELDED. CISPI 310 STAINLESS-STEEL COUPLINGS: WITH STAINLESS-STEEL SHIELD, STAINLESS-STEEL BANDS AND TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE.

2. COPPER DWV TUBE: ASTM B 306, DRAINAGE TUBE, DRAWN TEMPER. WITH ASME B16.23,CAST COPPER OR ASME B16.29, WROUGHT COPPER, SOLDER JOINT FITTINGS.

NATURAL GAS PIPING:

1. SCHEDULE 40 BLACK STEEL, CONFORMING TO ASTM A53 WITH 150 PSIG MALLEABLE IRON THREADED FITTINGS CONFORMING TO ANSI/ASME B16.3
2. BELOW GRADE/SLAB : PE PIPE CONFORMING TO ASTM D 2513, SDR 11, AND PE FITTINGS CONFORMING TO ASTM D-2683, SOCKET-FUSION TYPE OR ASTM D-3261, WITH DIMENSIONS MATCHING PE PIPE. PE TRANSITION FITTINGS, FACTORY-FABRICATED FITTINGS WITH PE COMPLYING WITH ASTM D 2513, SDR 11. PROTECTIVE COATING FOR UNDERGROUND PIPING, FACTORY APPLIED, THREE-LAYER COATING OF EPOXY, ADHESIVE, AND PE.

LAB PIPE MATERIALS SCHEDULE

INDUSTRIAL WATER PIPING INSIDE BUILDING:

1. TYPE "L" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS CONFORMING TO ASTM B 16.22.

DEIONIZED WATER PIPING INSIDE BUILDING:

1. POLYPROPYLENE (PP) SHALL BE TYPE I, GRADE I, PP NATURAL OR WHITE MANUFACTURED CONFORMING TO ASTM D792 TO SDR RATIO CONFORMING TO ASTM F714. BUTT FUSION WELDS AND PURITY REQUIREMENTS PER THE MFG. RECOMMENDATIONS.

INDUSTRIAL WASTE PIPING INSIDE BUILDING:

1. POLYPROPYLENE DRAINAGE PIPE AND FITTINGS CONFORMING TO ASTM F 1412 WITH FIRE RETARDANT ADDITIVE COMPLYING WITH ASTM D 44101. PIPE AND EXTRUDED FITTINGS CONFORMING TO ASTM 23447 AND ASTM D331. BUTT FUSION JOINT ENDS.

   EXCEPTION: PIPE AND FITTINGS MADE FROM PP RESIN WITHOUT FIRE-RETARDANT ADDITIVE MAY BE USED FOR UNDERGROUND INSTALLATION.

COMPRESSED DRY AIR PIPING:

1. TYPE "L" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER BRAZED JOINTS UNDER CONTINUOUS NITROGEN PURGE CONFORMING TO AWS A5.8 & MSS SP-73.

LABORATORY VACUUM AIR PIPING:

1. TYPE "L" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER BRAZED JOINTS UNDER CONTINUOUS NITROGEN PURGE CONFORMING TO AWS A5.8 & MSS SP-73.

CO2 PIPING:

1. TYPE "L" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER BRAZED JOINTS UNDER CONTINUOUS NITROGEN PURGE CONFORMING TO AWS A5.8 & MSS SP-73.

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO INSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, POC'S, INVERT ELEVATIONS, AND AVAILABILITY OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
4. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS.
5. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD EFFECT THE SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED.
6. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, POC'S AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURERS RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN ON THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATIONS OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS.
8. THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT THE INSTALLATIONS AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
9. SUBSTITUTION OF PLUMBING EQUIPMENT WITH EFFICIENCIES LOWER THAN THOSE INDICATED ON THE PLANS MAY REQUIRE RE-CALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE ASSUMES FULL RESPONSIBILITY FOR THE RE-CALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS.
10. IF THE CONTRACTORS' USE OF SUBSTITUTE MATERIALS, EQUIPMENT OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES' WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES' WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
11. SUBMITTALS: APPROVAL OF THE SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO FULLY COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
12. ALL PLUMBING EQUIPMENT, MATERIAL, AND ALL CONNECTIONS THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURERS INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
13. PLUMBING EQUIPMENT SHALL BE CERTIFIED BY AND COMPLY WITH THE STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS (E.E.S.) SECTION 113. COMPLIANCE CERTIFICATES SHALL BE PROVIDED WITH EQUIPMENT SUBMITTALS.
14. WHERE NON-METALLIC PIPING PENETRATES AREA SEPARATION, 1 HOUR, OR 2 HOUR WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND EXTENDING A DISTANCE OF 5 FEET ON EITHER SIDE THERE-OF SHALL BE OF METAL ONLY.
15. CONDENSATE DRAIN PIPING FROM EQUIPMENT WITHIN BUILDING SHALL BE INSULATED A MINIMUM DISTANCE OF 2O (TWENTY) FEET FROM SAID EQUIPMENT.
16. ALL INSULATING MATERIALS INSTALLED MUST BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION TO MEET C.E.C. ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 118, 123 AND 124.
17. PILOTLESS IGNITION OF GAS APPLIANCES SHALL COMPLY WITH BUILDING ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 115.
18. WATER HEATERS FOR DOMESTIC HOT WATER SHALL COMPLY WITH THE STATE OF CALIFORNIA ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 113, AND 114.
19. ALL NATURAL GAS PIPING LOCATED EXPOSED ABOVE GRADE, SHALL BE INSTALLED SO THAT THE INVERT ELEVATION OF SUCH PIPING SHALL BE KEPT AT LEAST 6" ABOVE GRADE OR STRUCTURE.
20. ALL HOSE BIBBS INSTALLED SHALL BE EQUIPPED WITH VACUUM BREAKERS.
21. LAVATORY FAUCETS IN ALL TOILET ROOMS SHALL BE THE SELF CLOSING TYPE.
22. SOIL, SEWER AND WASTE PIPING SHALL SLOPE AT 1/4" PER FOOT MINIMUM.
23. ALL PLUMBING SOLDER SHALL BE LEAD FREE.
24. ALL COMPONENTS OF POTABLE WATER SYSTEM, INCLUDING SHUT OFF VALVES, ANGLE STOPS, AND PLUMBING FIXTURE SHALL COMPLY WITH CALIFORNIA LAW AB 1953 AND SECTION 116875 OF THE CALIFORNIA HEALTH AND SAFETY CODE.
25. PROVIDE CLEANOUTS EVERY 100' AND AT ANY CHANGE OF DIRECTION EXCEEDING 135 DEGREES.
26. BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.
27. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
28. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAT SIX (6) INCHES ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.
29. PLUMBING FIXTURES AND FITTINGS SHALL COMPLY WITH ALL THE REQUIREMENTS IN SECTION 5.303 IN THE 2016 CALIFORNIA GREEN BUILDING CODE.
30. WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 507.6 CPC. 2.2
31. WALL CLEANOUTS SHALL BE PROVIDED AT ALL URINALS & SINKS (I.E. LAB SINKS, BREAKROOM SINKS AND WELLNESS ROOM SINKS)

LEGEND

SYMBOL	ABBR.	DESCRIPTION
		SITE UTILITY CONNECTION
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECTION
— (E) —	(E)	EXISTING PIPING - SEE PLANS FOR TYPE
		REMOVE EXIST. EQUIP. OR PIPES SHOWN HATCHED
— — — —	S OR W	SEWER OR WASTE BELOW FLOOR OR GRADE
———	S OR W	SEWER OR WASTE ABOVE FLOOR OR GRADE
— IW —	IW	INDUSTRIAL WASTE
— IV —	IV	INDUSTRIAL VENT
— CD —	CD	CONDENSATE DRAIN
— — — —	V	SANITARY VENT
— · —	CW	COLD WATER (DOMESTIC)
— - - —	HW	HOT WATER (DOMESTIC)
— - - - —	HWR	HOT WATER RETURN
— CO2 —	CO2	CARBON DIOXIDE
— LV —	LV	LABORATORY VACUUM
— LA —	LA	LAB AIR
— LN2 —	LN2	LIQUID NITROGEN
— DI —	DI	DIONIZED WATER
— DIR —	DIR	DIONIZED WATER RETURN
— G —	G	LOW PRESSURE NATURAL GAS
— MPG —	MPG	MEDIUM PRESSURE NATURAL GAS (5 PSI)
— SD —	SD	STORM DRAIN
— OD —	OD	OVERFLOW STORM DRAIN
	BP	BACKFLOW PREVENTER (REDUCED PRESS. TYPE)
	GV	GATE VALVE
	BV	BALL VALVE
	CV	CHECK VALVE
	GC	GAS COCK
	PRV	PRESSURE REDUCING VALVE
	T& PV	TEMPERATURE & PRESSURE RELIEF VALVE
	STR.	STRAINER
	COTG	CLEAN-OUT TO GRADE
	FCO	FLOOR CLEAN OUT
	WCO	WALL CLEAN-OUT OR CLEAN-OUT BELOW FLOOR
	CL	CAPPED LINE
		DOWN OR DROP
		UP OR RISE
	FC	FLEXIBLE CONNECTION (PIPE)
	HB	HOSE BIBB
	PG	PRESSURE GAUGE WITH GAUGE COCK
		"TEE" BRANCH
		VALVE ON RISE OR DROP
	TP	TRAP PRIMER
	TH	THERMOMETER
	U	UNION
	WHA	WATER HAMMER ARRESTOR (P.D.I. SIZE)
		DIRECTION OF FLOW
		REDUCER
	FS	FLOOR SINK
	FD	FLOOR DRAIN
	RD/OD	ROOF DRAIN / OVERFLOW DRAIN
	AD/DD	AREA DRAIN / DECK DRAIN

SYMBOL	ABBR.	DESCRIPTION
	A/C	ABOVE CEILING
	AT/C	AT CEILING OR STRUCTURE
	AB	ANCHOR BOLT
	AD	AREA DRAIN
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AP	ACCESS PANEL
	ABV	ABOVE
	ARCH	ARCHITECT OR ARCHITECTURAL
	B/G	BELOW GRADE
	B/F	BELOW FLOOR
	B/S	BELOW SLAB
	BEL	BELOW
	CI	CAST-IRON
	CLG	CEILING
	CLR	CLEAR
	CONC	CONCRETE
	CONN	CONNECT OR CONNECTION
	CONT	CONTINUATION
	CONTR	CONTRACTOR
~	DIA	DIAMETER
	DN	DOWN
	DWGS	DRAWINGS
	ELECT	ELECTRICAL
	ELEV	ELEVATION
	EXIST	EXISTING
	°F	DEGREES FAHRENHEIT
	FFE	FINISH FLOOR ELEVATION
	FPM	FEET PER MINUTE
	FIN	FINISH OR FINISHED
	FLR	FLOOR
	FT	FEET OR FOOT
	GPM	GALLONS PER MINUTE
	HDR	HEADER
	HP	HORSEPOWER
	HVAC	HEATING, VENTILATION, & AIR CONDITIONING
	I.E.	INVERT ELEVATION
	INV	INVERT
	IVTR	INDUSTRIAL VENT THROUGH ROOF
	I/W	IN WALL
	MAX	MAXIMUM
	MECH	MECHANICAL
	MFR	MANUFACTURER
	MIN	MINIMUM
	MTD	MOUNTED
	N.C.	NORMALLY CLOSED
	N.I.C.	NOT IN CONTRACT
	NTS	NOT TO SCALE
	NO	NUMBER
	N.O.	NORMALLY OPEN
	OPER	OPERATING
	PD	PRESSURE DROP
	PSI	POUNDS PER SQUARE INCH
	PSIG	POUNDS PER SQUARE INCH GAUGE
	PLBG	PLUMBING
	QTY	QUANTITY
	SHT	SHEET
	SOV	SHUT- OFF VALVE
	ST STL	STAINLESS STEEL
	SPEC	SPECIFICATION
⌀	SQ FT	SQUARE FEET OR SQUARE FOOT
	STRUCT	STRUCTURAL
	TEMP	TEMPERATURE
	TYP	TYPICAL
	UNO	UNLESS NOTED OTHERWISE
	VTR	VENT THROUGH ROOF
	W.C.	INCHES WATER COLUMN

PLUMBING PLAN CHECK NOTES

1. WHERE PLUMBING PENETRATES THE FIRE RESISTIVE WALLS (AREA SEPARATION AND OCCUPANCY SEPARATION), THE SECTION PASSING THROUGH THE WALL SURFACE, AND THE FIXTURE CONNECTIONS ATTACHED THERETO, SHALL MEET CBC, FIRE AND TEMPERATURE RATING.
2. ALL WATER HEATERS SHALL BE LISTED IN THE CEC LIST OF APPROVED WATER HEATERS.
3. ALL PLUMBING FIXTURES, FAUCETS AND SHOWER HEADS SHALL COMPLY WITH CALIFORNIA GREEN BUILDING CODE MAXIMUM FLOW REQUIREMENTS PER MINUTE.
4. SOIL, SEWER, AND WASTE PIPING SHALL SLOPE AT 1/4" PER FOOT MINIMUM UNLESS NOTED OTHERWISE.
5. ALL SERVICE HOT WATER PIPING SHALL BE INSULATED IN ACCORDANCE WITH CEC T-24, LATEST VERSION
6. STATE HEALTH & SAFETY CODE SEC. 17921.9 BANS THE USE OF CHLORINATED POLYVINYL CHLORIDE (CPVC) FOR INTERIOR WATER SUPPLY PIPING.
7. VALVES, FIXTURES AND ALL OTHER APPERTUNANCES SHALL CONFORM TO THE REQUIREMENTS OF CALIFORNIA ASSEMBLY BILL AB1953, LOW LEAD CONTENT AS APPLICABLE.
8. PLUMBING FIXTURES AND FITTINGS SHALL MEET THE STANDARDS REFERENCED IN TABLE 5.503.6 OF DIVISION 5.3 OF THE 2016 GREEN CODE.
9. EACH KITCHEN FAUCET SHALL NOT EXCEED A WATER FLOW OF 1.8 GPM.
10. PROVIDE EXPANSION TANK OR OTHER APPROVED METHOD OF RELIEVING PRESSURE PER SECTION 608.3 CPC. 2.2
12. INSTALLATION OF SOIL OR DRAIN PIPES IN FOOD HANDLING ESTABLISHMENTS WILL COMPLY WITH SECTION 317.0 CPC.
13. BACKWATER VALVE SHALL BE INSTALLED ON THE DOWNSTREAM OF PLUMBING FIXTURES THAT ARE LOCATED ON A FLOOR LEVEL THAT IS LOWER THAN THE NEXT UPSTREAM MANHOLE COVER OF THE PUBLIC OR PRIVATE SEWER SYSTEM PER SECTION 701.1 CPC AND SUBJECT TO FIELD INSPECTION APPROVAL.
14. LABEL MEDIUM PRESSURE GAS EVERY FIVE FEET.

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING LEGEND AND NOTES

Sheet No.

2P-101

10/2/2017 12:46:25 PM
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LABORATORY FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	MINIMUM PIPE CONNECTION (INCHES)									MANUFACTURER / MODEL NUMBER
		DI	ICW	IHW	CW	HW	WASTE	VENT	IW	IV	
SK-1	SINGLE COMP - DROP IN	-	3/4"	3/4"	-	-	-	-	2"	2"	REFER TO ARCHITECT LAB DRAWINGS FOR SPECIFICATIONS.
SK-2	DOUBLE COMP - DROP IN	-	3/4"	3/4"	-	-	-	-	2"	2"	REFER TO ARCHITECT LAB DRAWINGS FOR SPECIFICATIONS.
SK-3	SINGLE COMP - DROP IN (ADA)	-	3/4"	3/4"	-	-	-	-	2"	2"	REFER TO ARCHITECT LAB DRAWINGS FOR SPECIFICATIONS.
SK-4	WALL HUNG	-	3/4"	3/4"	-	-	-	-	2"	2"	REFER TO ARCHITECT LAB DRAWINGS FOR SPECIFICATIONS.
SK-5	STAINLESS STEEL SCULLERY	-	3/4"	3/4"	-	-	-	-	2"	2"	REFER TO ARCHITECT LAB DRAWINGS FOR SPECIFICATIONS.
DI-1	RECIRCULATING FAUCET DECK MOUNTED	1/2"	-	-	-	-	-	-	-	-	REFER TO ARCHITECT LAB DRAWINGS FOR SPECIFICATIONS.
EW-1	EYE WASH SWING DOWN	-	-	-	3/4"	3/4"	-	-	-	-	REFER TO ARCHITECT LAB DRAWINGS FOR SPECIFICATIONS.
ES-1	EMERGENCY SAFETY SHOWER	-	-	-	1-1/4"	1-1/4"	-	-	-	-	REFER TO ARCHITECT LAB DRAWINGS FOR SPECIFICATIONS.

FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	MINIMUM PIPE CONNECTION (INCHES)									MANUFACTURER / MODEL NUMBER
		DI	ICW	IHW	CW	HW	WASTE	VENT	IW	IV	
WC-1	WATER CLOSET	-	-	-	1"	-	4"	2"	-	-	ZURN #Z5615.213.02.12.H4 WATER CLOSET SYSTEM. WALL MOUNTED, ELONGATED, TOP SPUD, HARDWIRED SENSOR FLUSHOMETER VALVE 1.28 GPF, OPEN FRONT SEAT WITH NO LID.
WC-2	WATER CLOSET ADA	-	-	-	1"	-	4"	2"	-	-	ZURN #Z5615.213.02.12.H4 WATER CLOSET SYSTEM. WALL MOUNTED, ELONGATED, TOP SPUD, HARDWIRED SENSOR FLUSHOMETER VALVE 1.28 GPF, OPEN FRONT SEAT WITH NO LID. MOUNT PER ADA REQUIREMENTS.
U-1	URINAL	-	-	-	3/4"	-	2"	2"	-	-	ZURN #5758.205.00 URINAL SYSTEM. WALL MOUNTED,TOP SPUD, HARDWIRED SENSOR FLUSHOMETER VALVE 0.125 GPF. MOUNT PER ADA REQUIREMENTS.
L-1	LAVATORY UNDERMOUNT	-	-	-	3/4"	3/4"	2"	2"	-	-	KOHLER #K-2882, 17-1/4" X 13" UNDER-MOUNT LAVATORY, WITH SLOAN EFX 200 INFRARED SENSOR ACTIVATED FAUCET, 0.5 GPM AND SLOAN ESD-400 SOAP DISPENSER.
L-2	LAVATORY WALL MOUNT	-	-	-	3/4"	3/4"	2"	2"	-	-	KOHLER #K-2084, 20"X18", VITREOUS CHINA, WALL MOUNT LAVATORY, WITH SLOAN EFX 200 INFRARED SENSOR ACTIVATED FAUCET, 0.5 GPM
S-1	BREAKROOM SINK	-	-	-	3/4"	3/4"	2"	2"	-	-	ELKAY # ELUHAD282655PD, SINGLE BOWL, TYPE 304 SS, UNDERMOUNT SINK. KOHLER # K-596, KITCHEN FAUCET WITH PULLOUT SPRAY. 1.8 GPM FLOW WITH P-TRAP, STAINLESS STEEL SUPPLY HOSE AND LOOSE KEY STOPS. MOUNT PER ADA REQUIREMENTS.
S-2	SINK	-	-	-	3/4"	3/4"	2"	2"	-	-	ELKAY # ELUHAD161655PD, SINGLE BOWL, TYPE 304 SS, UNDERMOUNT SINK. PFISTER # GT72-ALSS, KITCHEN FAUCET WITH PULLOUT SPRAY. 1.8 GPM FLOW WITH P-TRAP, STAINLESS STEEL SUPPLY HOSE AND LOOSE KEY STOPS. MOUNT PER ADA REQUIREMENTS.
S-3	SINK	-	-	-	3/4"	3/4"	2"	2"	-	-	ELKAY # DPC1252210, SINGLE BOWL, TYPE 304 SS, TOP MOUNT SINK. SYMMONS # SPR-3510-PD-1.5, PULL DOWN KITCHEN FAUCET. 1.5 GPM FLOW WITH P-TRAP, STAINLESS STEEL SUPPLY HOSE AND LOOSE KEY STOPS.
MS-1	MOP SINK	-	-	-	3/4"	3/4"	3"	2"	-	-	ZURN # 1996-24, 24"x24" MOP SERVICE BASIN. ZURN # Z843M1, WALL MOUNT FAUCET WITH VACUUM BREAKER AND THREADED SPOUT.
DF-1	DRINKING FOUNTAIN W/BOTTLE FILLER	-	-	-	3/4"	-	2"	2"	-	-	ELKAY MODEL #LZWS-LRPBM28K, BOTTLE FILLING STATION AND HI-LO DRINKING FOUNTAIN
DF-2	DRINKING FOUNTAIN	-	-	-	3/4"	-	2"	2"	-	-	ELKAY MODEL #LRPBM28K, HI-LO DRINKING FOUNTAIN
FD-1	FLOOR DRAIN	-	-	-	-	-	SEE PLANS FOR SIZES		-	-	ZURN #Z415B, PROVIDE TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN	-	-	-	-	-	SEE PLANS FOR SIZES		-	-	ZURN # Z1726, STAINLESS STEEL FLOOR DRAIN, ADJUSTABLE WITH ANCHOR FLANGE, MEDIUM DUTY, SATIN FINISH TOP.
FS-1	FLOOR SINK	-	-	-	-	-	SEE PLANS FOR SIZES		-	-	ZURN #Z1900, PROVIDE TRAP PRIMER CONNECTION.
RR-1	ROOF RECEPTOR	-	-	-	-	-	SEE PLANS FOR SIZES		-	-	ZURN #Z108, CAST IRON BODY, MEMBRANE FLASHING CLAMP, INTERNAL BOTTOM DOME STRAINER.
RD-1 & OD-1	ROOF DRAIN OVERFLOW DRAIN COMBO	-	-	-	-	-	SEE PLANS FOR SIZES		-	-	ZURN #Z165, ROOF & OVERFLOW DRAIN, DURA COATED CAST IRON BODY, WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, DOUBLE TOP-SET DECK PLATE AND LOW SILHOUTTE CAST IRON DOMES
AD-1	AREA DRAIN	-	-	-	-	-	SEE PLANS FOR SIZES		-	-	THE ZURN #Z504 12" AREA DRAIN DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN, COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR HEAVY-DUTY SLOTTED GRATE.
PD-1	PLANTER DRAIN	-	-	-	-	-	SEE PLANS FOR SIZES		-	-	THE ZURN #Z348 DOME TYPE PLANTING AREA DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET COMPLETE WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, LOW SILHOUETTE DOME AND STAINLESS STEEL MESH SCREEN OVER DOME.
HB-1	HOSE BIBB ROOF	-	-	-	3/4"	-	-	-	-	-	WOODFORD MODEL #RHY2-MS ROOF HYDRANT
HB-2	HOSE BIBB WASH ROOM	-	-	-	3/4"	-	-	-	-	-	WOODFORD MODEL #24CP ANTI-SIPHON VACUUM BREAKER WALL FAUCET.
HB-3	HOSE BIBB EXTERIOR	-	-	-	3/4"	-	-	-	-	-	ACORN #8151 HOSE BIBB WITH INTEGRAL VACUUM BREAKER AND REMOVABLE KEY. LOCATED WITH LATCHING, STAINLESS STEEL WALL BOX
IMB-1	ICE MAKER BOX	-	-	-	1/2"	-	-	-	-	-	GUY GRAY # SSIB1, STAINLESS STEEL, ICE MAKER BOX.
ES/EW-1	EMERGENCY SHOWER/ EYEWASH	-	-	-	1-1/4"	1-1/4"	-	-	-	-	GUARDIAN #G8F2170, RECESSED SAFETY STATION WITH DRAIN PAN, WALL MOUNTED EXPOSED SHOWER HEAD.

PIPE SIZE SCHEDULE 8' PER SEC

PIPE SIZE	GPM (MAX)	VELOCITY FT./SEC	FIXTURE UNITS	
			FLUSH TANK	FLUSH VALVE
1/2"	2	2.7	1	-
3/4"	5.1	3.6	6	-
1"	12	4.3	16	-
1-1/4"	19	5	28	-
1-1/2"	30	5.8	54	13
2"	62	7	185	82
2-1/2"	110	8	431	295
3"	170	8	748	700
3-1/2"	210	8	1018	1009
4"	270	8	1500	1500

PIPE SIZE SCHEDULE 5' PER SEC

PIPE SIZE	GPM (MAX)	VELOCITY FT./SEC	FIXTURE UNITS	
			FLUSH TANK	FLUSH VALVE
1/2"	2	2.7	1	-
3/4"	5.1	3.6	6	-
1"	12	4.3	16	-
1-1/4"	19	5	28	-
1-1/2"	27	5	46	-
2"	48	5	119	-
2-1/2"	72	5	236	-
3"	108	5	431	-

PLUMBING FIXTURE SUMMARY

FIXTURE	TYPE	QTY.	COLD WATER		HOT WATER		SEWER	
			F.U.	TOTAL	F.U.	TOTAL	F.U.	TOTAL
TOILET (FLUSH VALVE)	PUBLIC	28	5	140	-	-	4.0	112
URINALS (FLUSH VALVE)	PUBLIC	10	4	40	-	-	2.0	20
LAVATORY	PUBLIC	22	1.0	22	1.0	22	1.0	22
MOP SINK	PUBLIC	5	3.0	15	3.0	15	3.0	15
KITCHEN SINKS	PUBLIC	3	1.5	4.5	1.5	4.5	2.0	6
WELLNESS SINK (WASH UP)	PUBLIC	3	2.0	6	2.0	6	2.0	6
FACILITY SINK (WASH UP)	PUBLIC	1	2.0	2	2.0	2	2.0	2
HAND SINK (WASH UP)	PUBLIC	1	2.0	2	2.0	2	2.0	2
PREP SINK (WASH UP)	PUBLIC	1	2.0	2	2.0	2	2.0	2
PRE RINSE SINK (WASH UP)	PUBLIC	1	2.0	2	2.0	2	3.0	3
3 COMP SINK (WASH UP)	PUBLIC	1	2.0	2	2.0	2	3.0	3
LAB SINKS (WASH UP)	PUBLIC	73	2.0	146	2.0	146	2.0	146
DISHWASHER	PUBLIC	1	1.5	1.5	1.5	1.5	2.0	2
DRINKING FOUNTAIN	PUBLIC	3	0.5	1.5	-	-	0.5	1.5
HOSE BIBB	PUBLIC	8	2.5/+1 EA.	9.5	-	-	-	-
DOMESTIC F.U. TOTAL				396 F.U.		205 F.U.		342.5 F.U.
GPM CONVERSION				125 GPM		66 GPM		
DI SKID				3 GPM		-		
CAGE WASHER				5 GPM		-		
GLASS WASHER				8 GPM		-		
(5) AUTOCLAVES				48 GPM		-		
WARE WASHER				2 GPM		-		
TOTAL GPM				191 GPM		66 GPM		

WATER CALCULATION

TOTAL FIXTURE UNITS:	396	FU
TOTAL DEMAND FLOW RATE	191	GPM
AVAILABLE WATER PRESSURE (FLOW TEST 11-16-16)	126	PSI
		PSI
PRESSURE LOSS THRU EXISTING BACKFLOW PREVENTER (EXISTING)	- 12	PSI
PRESSURE LOSS THRU EXISTING WATER METER (EXISTING)	- 5	PSI
AVAILABLE PRESSURE	109	PSI
PRESSURE AVAILABLE AT BUILDING	109	PSI
PRESSURE REGULATOR SETTING (REQUIRED)	80	PSI
ELEVATION LOSS (30 FT x 0.433) =	-13	PSI
MINIMUM OPERATING PRESSURE REQUIRED AT FIXTURE	- 25	PSI
TOTAL AVAILABLE SYSTEM PRESSURE	42	PSI
LONGEST PIPE RUN	910	FT
TOTAL DEVELOPED LENGTH	1115	FT
ALLOWABLE PRESSURE DROP FORMULA		
100 FT x AVAILABLE PRESSURE ⇑ TOTAL DEVELOPED LENGTH		
100 FT x 42 PSI / 1115 FT	3.77	PSI

2

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GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING SCHEDULES

Sheet No.
2P-102

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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DI SKID

UNIT NO.	MANUFACTURER & MODEL NO.	DESCRIPTION	SERVICE	LOCATION	MAKE-UP WATER (GPM)	ELECTRICAL (V/PH/HZ)	OVERALL SKID DIMENSIONS (LxWxH)	REMARKS
DI 1	WATER WORKS	RO/DI SKID	DI WATER	UTILITY	5	460V/3PH/60HZ	132"X46"X92"	SKID TO BE PROVIDED BY WATER WORKS, WITH (3) 1-1/2" DI LOOPS SUPPLYING BUILDING. (SUPPLY 115 VOLTS TO RO BOOSTER PUMP)

RO SKID

UNIT NO.	MANUFACTURER & MODEL NO.	DESCRIPTION	SERVICE	LOCATION	MAKE-UP WATER (GPM)	ELECTRICAL (V/PH/HZ)	OVERALL SKID DIMENSIONS (LxWxH)	REMARKS
ROS 1	WATER WORKS DEXCOM 6350	RO SKID	RO WATER	ROOF	5	115V/1PH/60HZ	24"X36"X72-1/4"	SKID TO BE PROVIDED BY WATER WORKS

WATER SOFTENER SYSTEM

UNIT NO.	MANUFACTURER & MODEL NO.	DESCRIPTION	SERVICE	LOCATION	GPM	ELECTRICAL (V/PH/HZ)	DIMENSIONS (LxWxH)	REMARKS
WS 1	WATER WORKS	TWIN ALTERNATING SOFTENERS W/BRINE TANK	SOFT WATER	UTILITY	250	115V/1PH/60HZ	-	CONTROL VALVE, SOFTENERS & BRINE TANK BY WATER WORKS

REVERSE OSMOSIS FILTRATION

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	LOCATION	OPER. WT. (LBS)	REMARKS
RO 1	REVERSE OSMOSIS	PRO SERIES 5 STAGE 100 GPD REVERSE OSMOSIS SYSTEM	BRREAKROOM SINK	-	5 STAGE PURIFICATION PROCESS, 100 GALLONS PER DAY CAPACITY WITH 3.2 GALLON TANK AND DECK MOUNT CHROME FAUCET.

GREASE INTERCEPTOR

UNIT NO.	LOCATION	MANUFACTURER, MODEL NUMBER & RATING	REMARKS
GI 1	STORAGE	ZURN #Z1172 LARGE CAPACITY GREASE INTERCEPTOR, MAX GREASE CAPACITY 200LBS., FLOW RATING OF 100 GPM.	INSTALL GREASE INTERCEPTOR UNDER FLOOR. PROVIDE FLOW CONTROL VALVE AT INLET OF GREASE INTERCEPTOR.

2.2

WATER HAMMER ARRESTOR

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	LOCATION	OPER. WT. (LBS)	REMARKS
WHA 1	WATER HAMMER ARRESTER	PRECISION PLUMBING PRODUCTS #SC	-	-	SIZE PER PDI STANDARDS.

SUMP PUMP

UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	TYPE	DESIGN CAPACITY			SKID MOUNTED (Y/N)	VFD (Y.N)	ELECTRICAL REQUIREMENTS						OPR. WT. (LBS)	REMARKS
										PUMP-1				CONTROL PANEL			
					FLOW (GPM)	PUMP HEAD (FT)	TRAFFIC RATING			MOTOR HP	MOTOR RPM	V/PH/HZ	E.POWER Y/N	V/PH/HZ	E.POWER Y/N		
SP 1	ZOELLER J661	STORM	LOADING DOCK	SIMPLEX SUBMERSIBLE	110	15	H20	N	N	1	1750	208/3/60	N	120/1/60	N	245	1 2 3

REMARKS

1. PROVIDE WITH SIMPLEX CONTROL PANEL (ALARM PACKAGE), MODEL#10-1183.
2. SUMP PUMP SYSTEM PROVIDE 17-PAHS 36"X48" BASIN AND TRAFFIC RATED LID WITH FLOAT CONTROLS, RAIL LIFTING AND QUICK DISCONNECT SYSTEM.
3. SIMPLEX PUMPING SYSTEM. PROVIDE 208/3/60 POWER TO PUMP MOTOR.

CONDENSATE PUMP

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	ELECTRICAL	OPER. WT. (LBS)	REMARKS
CD 1	CONDENSATE PUMP	LITTLE GIANT VCMX-20ULS	230/1PH/50HZ	5.5 LBS	PERFORMANCE (GPH @ HEAD) - 5FT OF HEAD, 75 GPH

HOT WATER DISPENSER

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	ELECTRICAL	OPER. WT. (LBS)	REMARKS
HWD 1	HOT WATER DISPENSER	INSINKERATOR H-VIEW-SS	115V/1PH/60HZ	8.5 LBS	2/3 - GALLON HOT WATER TANK, DISPENSES 60 CUPS OF 200 DEGREE F WATER PER HOUR.

PRESSURE REDUCING VALVE (PRV) STATION

2.2

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	INTERMITTENT FLOW (GPM)	CONTINUOUS FLOW (GPM)	INLET PIPE SIZE	OUTLET PIPE SIZE	REMARKS
PRV 1	PRV STATION	VICTAULIC SERIES 386C	229	153	2-1/2"	2-1/2"	SINGLE STAGE FACTORY ASSEMBLED PRESSURE REDUCING VALVE (PRV) STATION CONSISTING OF A VICTAULIC STYLE 972S-H WATCHDOG VALVE COMBO

CO2 - (PERMA-CYL TANK)

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	SERVICE	DIAMETER (INCHES)	HEIGHT (INCHES)	REMARKS
CO2 1	BULK STORAGE TANK	WESTAIR GASES 450L	CO2	30	68	PROVIDE WITH O2 MONITOR AND EXTERIOR FILL BOX CONNECTION. COORDINATE FILL BOX LOCATION WITH OWNER.

DOMESTIC WATER BOILER & HEATER

2.2

UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	TYPE	UNIT CAPACITY		SYSTEM OUTLET TEMP. (°F)	ELEC. DATA		FUEL			OVERALL DIMENSIONS (DxH)	SHIP WT. (LBS)	REMARKS
					RECOVERY GPH	DEGREE RISE °F		V/PH/HZ	EMERGENCY POWER	NAT. GAS/LPG/OIL	MBH INPUT	EFF.			
WH 1	LOCHINVAR #AW-400PM	DOMESTIC	UTILITY	GAS	465	100	120	120/1/60	NO	NATURAL GAS	399	96%	15-1/2"X27"X42-1/2"	306	PROVIDE ACID NEUTRALIZATION DRAIN KIT & CONCENTRIC VENT KIT
WH 2	LOCHINVAR #AW-400PM	DOMESTIC	UTILITY	GAS	465	100	120	120/1/60	NO	NATURAL GAS	399	96%	15-1/2"X27"X42-1/2"	306	PROVIDE ACID NEUTRALIZATION DRAIN KIT & CONCENTRIC VENT KIT
WH 3	BRADFORD WHITE #EF-60T-125E-3N(A)	DOMESTIC	STORAGE	GAS	241	80	120	120/1/60	NO	NATURAL GAS	125	96%	-		PROVIDE ACID NEUTRALIZATION DRAIN KIT & CONCENTRIC VENT KIT

STORAGE TANK

UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	CAPACITY (GALLONS)	HORIZONTAL OR VERTICAL	MATERIAL	LINING	PRESSURE RATING (PSIG)	ASME RATED (Y/N)	MANWAY REQUIRED (Y/N)	OVERALL DIMENSION (□xH)	OPER. WT. (LBS)	REMARKS
ST 1	LOCHINVAR	DOMESTIC	UTILITY RM	700	HORIZONTAL	STEEL	GLASS	125	Y	Y	59"" x 100"	2,399	ASME RATED, ANGLE IRON LEGS, 3" INLET AND OUTLET, T&P RELIEF VALVE, PRIMER FINISH, INSULATED.

EXPANSION TANK

2.2

UNIT NO.	MANUFACTURER & MODEL NO.	DESCRIPTION	SERVICE	LOCATION	VOLUME (GALLONS)	ACCEPTANCE FACTOR	OVERALL DIMENSIONS (DxH)	REMARKS
ET 1	AMTROL #ST-120V-C	EXPANSION TANK DOMESTIC	DOMESTIC	UTILITY	66	.61	24"X47-3/4"	STEEL SHLL, HEAVY DUTY BUTY DIAPHRAGM, ASME RATED, FACTORY PRE-CHARGED, 125 PSI WORKING PRESSURE.
ET 2	AMTROL #12-C	EXPANSION TANK DOMESTIC	DOMESTIC	STORAGE	8.4	.59	12"X18"	STEEL SHLL, HEAVY DUTY BUTY DIAPHRAGM, ASME RATED, FACTORY PRE-CHARGED, 125 PSI WORKING PRESSURE.

CIRCULATION PUMP

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	LOCATION	OPER. WT. (LBS)	REMARKS
CP 1	CIRCULATION PUMP	BELL & GOSSETT # PL-36 OR EQUAL 115V/1PH/60HZ	UTILITY	13	PROVIDE AQUASTAT CONTROLLER TO ACTIVATE PUMP WHEN HOT WATER RETURN REACHES 110°F AND DEACTIVATE PUMP AT 120°F
CP 2	CIRCULATION PUMP	BELL & GOSSETT # NBF-9U OR EQUAL 115V/1PH/60HZ	STORAGE	13	PROVIDE AQUASTAT CONTROLLER TO ACTIVATE PUMP WHEN HOT WATER RETURN REACHES 110°F AND DEACTIVATE PUMP AT 120°F

THERMOSTATIC MIXING VALVE

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	LOCATION	OPER. WT. (LBS)	REMARKS
TMV 1	THERMOSTATIC MIXING VALVE (DOMESTIC WATER)	LEONARD #2020B-LF-DT	UTILITY	-	LEAD FREE THERMOSTATIC MIXING VALVE, SET AT 120°F, 113 GPM AT 10 PSI DROP, 1 GPM MINIMUM FLOW CAPACITY.
TMV 2	THERMOSTATIC MIXING VALVE (DOMESTIC WATER)	LEONARD #LV-981-LF	STORAGE	-	LEAD FREE THERMOSTATIC MIXING VALVE, SET AT 120°F, 20 GPM AT 10 PSI DROP, 2.5 GPM MINIMUM FLOW CAPACITY.

LABORATORY VACUUM PUMPS

UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	TYPE	RECIEVER CAPACITY (GALLONS)	PUMP DATA		ELEC. DATA				OVERALL DIMEN. (LxWxH)	OPER. WT. (LBS)	REMARKS
						PRESS (IN. Hg)	CAPACITY (SCFM)	MOTOR QTY	MOTOR HP (EACH)	V/PH/HZ	FLA	EMER POWER			
VAC 1	POWEREX #LVPD1005	LABORATORY VACUUM	UTILITY ROOM	ROTARY VANE	200	19	154	2	10	460/3/60	27.6	NO	66"X59"X83"	2600	DUPLEX LABORATORY, LUBRICATED VANE VACUUM PUMP, ASME RATED # 200 GALLON AIR RECEIVER, AUTO PURGE, BMS READY, PBMI CONTROLLER

LABORATORY AIR COMPRESSOR

UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	TYPE	RECIEVER CAPACITY (GALLONS)	PUMP DATA		ELEC. DATA					OVERALL DIMEN. (LxWxH)	OPER. WT. (LBS)	REMARKS
						PRESS (PSI)	CAPACITY (CFM)	MOTOR QTY	MOTOR HP (EACH)	V/PH/HZ	FLA	EMER POWER Y/N			
AC 1	POWEREX #STD0504	LABORATORY DRY AIR	UTILITY ROOM	OILLESS SCROLL	120	116	30.4	2	5	460/3/60	12.9	NO	78"X28"X45"	615	SCROLL DUPLEX AIR COMPRESSOR WITH ASME 200 PSI RECEIVER, NFPA CONTROL PANEL WITH LEAD/LAG CONTROLS, DESICCANT DRYER, 115V, 1PH, 60HZ.

BACKFLOW PREVENTER

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	LOCATION	OPER. WT. (LBS)	REMARKS
BFP 1	BACKFLOW PREVENTER	WILKINS # 975XL	UTILITY	-	3/4" INLET, LEAD FREE, TYPE Y STRAINER, FULL SIZE PORT VALVES.
BFP 2	BACKFLOW PREVENTER	WILKINS # 975XL	ROOF	-	3/4" INLET, LEAD FREE, TYPE Y STRAINER, FULL SIZE PORT VALVES.
BFP 3	BACKFLOW PREVENTER	WILKINS # 975XL	-	-	1" INLET, LEAD FREE, TYPE Y STRAINER, FULL SIZE PORT VALVES.
BFP 4	BACKFLOW PREVENTER	WILKINS # 975XL	-	-	1-1/4" INLET, LEAD FREE, TYPE Y STRAINER, FULL SIZE PORT VALVES.
BFP 5	BACKFLOW PREVENTER	WILKINS # 975XL	-	-	1-1/2" INLET, LEAD FREE, TYPE Y STRAINER, FULL SIZE PORT VALVES.

GARBAGE DISPOSER

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	LOCATION	OPER. WT. (LBS)	REMARKS
GD 1	GARBAGE DISPOSER	IN-SINK-ERATOR BADGER 5 120V/1PH/60HZ	BREAKROOM SINK	-	PLUG IN TYPE TO SWITCH OPERATED RECEPTACLE, SEE ELECTRICAL.

TRAP PRIMER

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	LOCATION	OPER. WT. (LBS)	REMARKS
TP 1	TRAP PRIMER	PRECISION PLUMBING PRODUCTS #TP-500	-	-	PROVIDE SHUT-OFF VALVE AND WITH MULTIPLE OUTLET BOX.

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

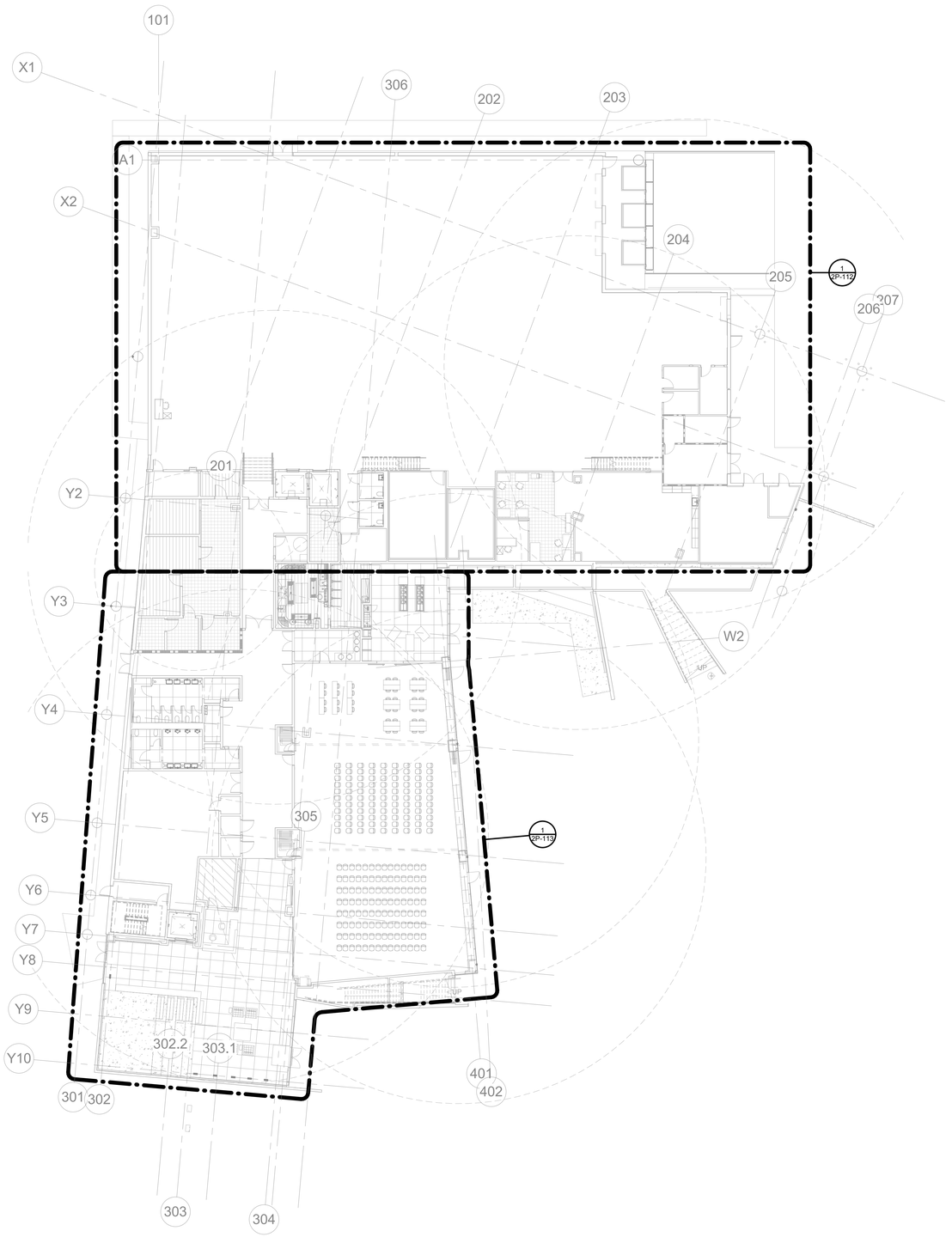
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING SCHEDULES

Sheet No.
2P-103

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



SHEET NOTES

1. xxx

GENERAL NOTES

1. XXX

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
1	04.25.17	DESIGN DEVELOPMENT
2	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING OVERALL PLAN - LEVEL 01

Sheet No.

2P-111

1 **PLUMBING OVERALL PLAN - LEVEL 01**

1/16" = 1'-0"

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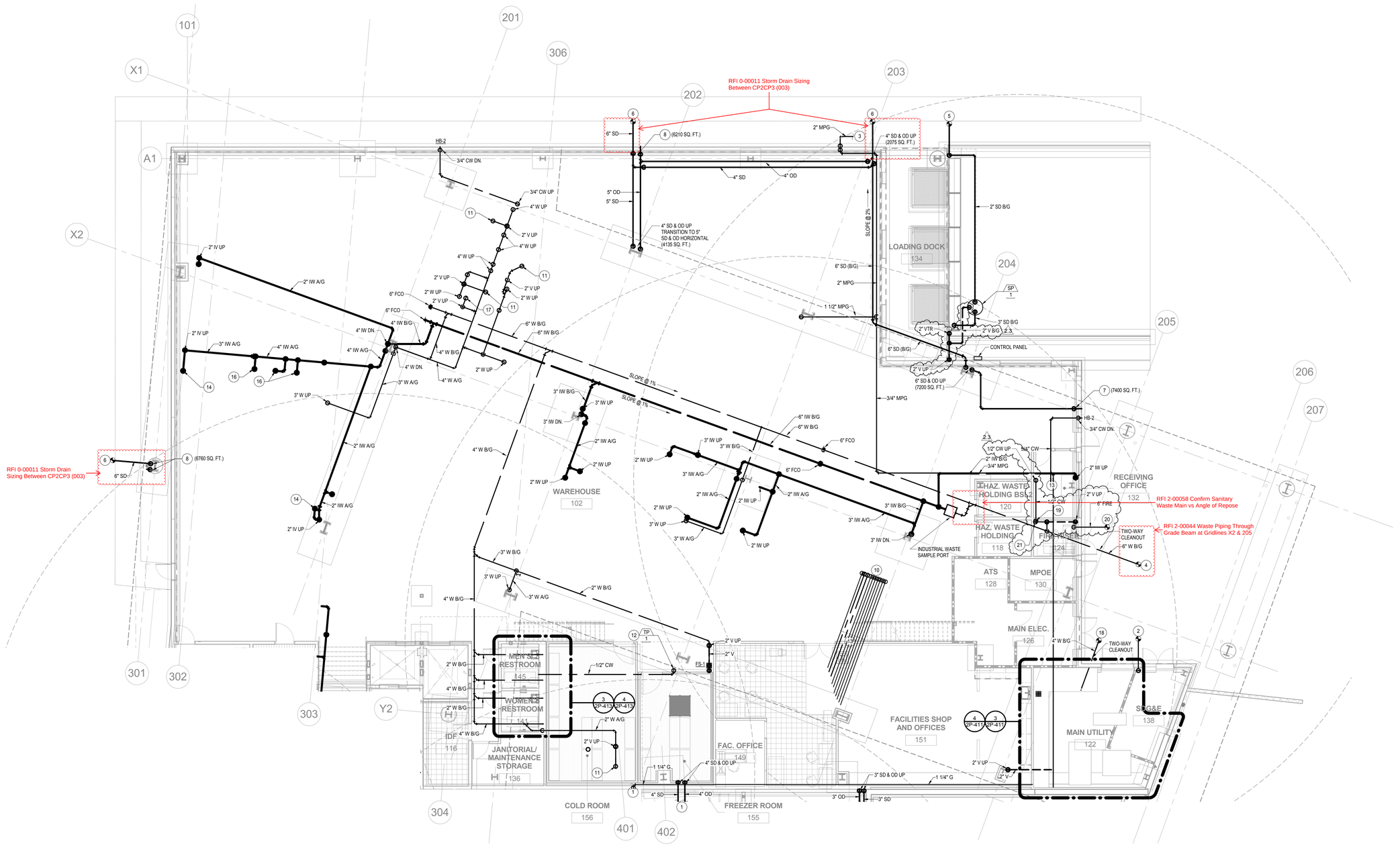


1 PLUMBING FLOOR PLAN - LEVEL 01 - PART A

RFI 2-00034 Order Fulfillment- Clarification to Cold Room Floor Drain Locations & Depressed Slabs

RFI 2-00034.1 Revision to RFI 2-00034 to Provide Final Direction on Floor Sinks-Drains Locations

1/2P-111 1/8" = 1'-0"

N

SHEET NOTES

1. FOR CONTINUATION SEE SHEET 2P-113.
2. 4" COLD WATER. FOR CONTINUATION SEE SHEET PS-101.
3. MEDIUM PRESSURE GAS. FOR CONTINUATION SEE SHEET PS-101.
4. 6" WASTE DRAIN. FOR CONTINUATION SEE SHEET PS-101.
5. 2" PUMPED STORM DRAIN, FOR CONTINUATION SEE 2PS-101.
6. 6" SD POC. FOR CONTINUATION SEE 2PS-101..
7. 6" SD AND OD DOWN. ROUTE SD BELOW GRADE TO STORM DRAIN SYSTEM AND DISCHARGE OD 12" ABOVE FINISHED FLOOR.
8. 5" SD AND OD DOWN. TRANSITION TO 6" SD & OD HORIZONTAL. ROUTE SD BELOW GRADE TO STORM DRAIN SYSTEM AND DISCHARGE OD 12" ABOVE FINISHED GRADE.
9. 2"CW, 2" HW, 1-1/2" HWR 3" VAC
10. 4" CW, 3" HW, 3" VAC, 1" LA 1" CO2 & (3) 1-1/2" DI AND DIR.
11. 2" WASTE UP TO FLOOR DRAIN.
12. 1/2" CW DOWN IN WALL TO TRAP PRIMER. PROVIDE ACCESS PANEL. FOR DETAIL SEE 9/2P-501.
13. FOR CONTINUATION SEE SHEET 2P-114.
14. 2" IW UP TO FLOOR SINK.
15. 3" IW UP TO FLOOR DRAIN.
16. 4" IW UP TO FLOOR SINK.
17. 3" WASTE UP TO MOP SINK.
18. 4" WASTE DRAIN. FOR CONTINUATION SEE 2PS-101.
19. 1/2" CW DOWN TO TRAP PRIMER FOR HUB DRAIN. SEE DETAIL 9/2P-501.
20. 6" FIRE SERVICE. SEE CONTINUATION SEE SHEET PS-101.
21. 4" HUB DRAIN. FOR DETAIL SEE 4/2P-504.

GENERAL NOTES

1. XXX

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

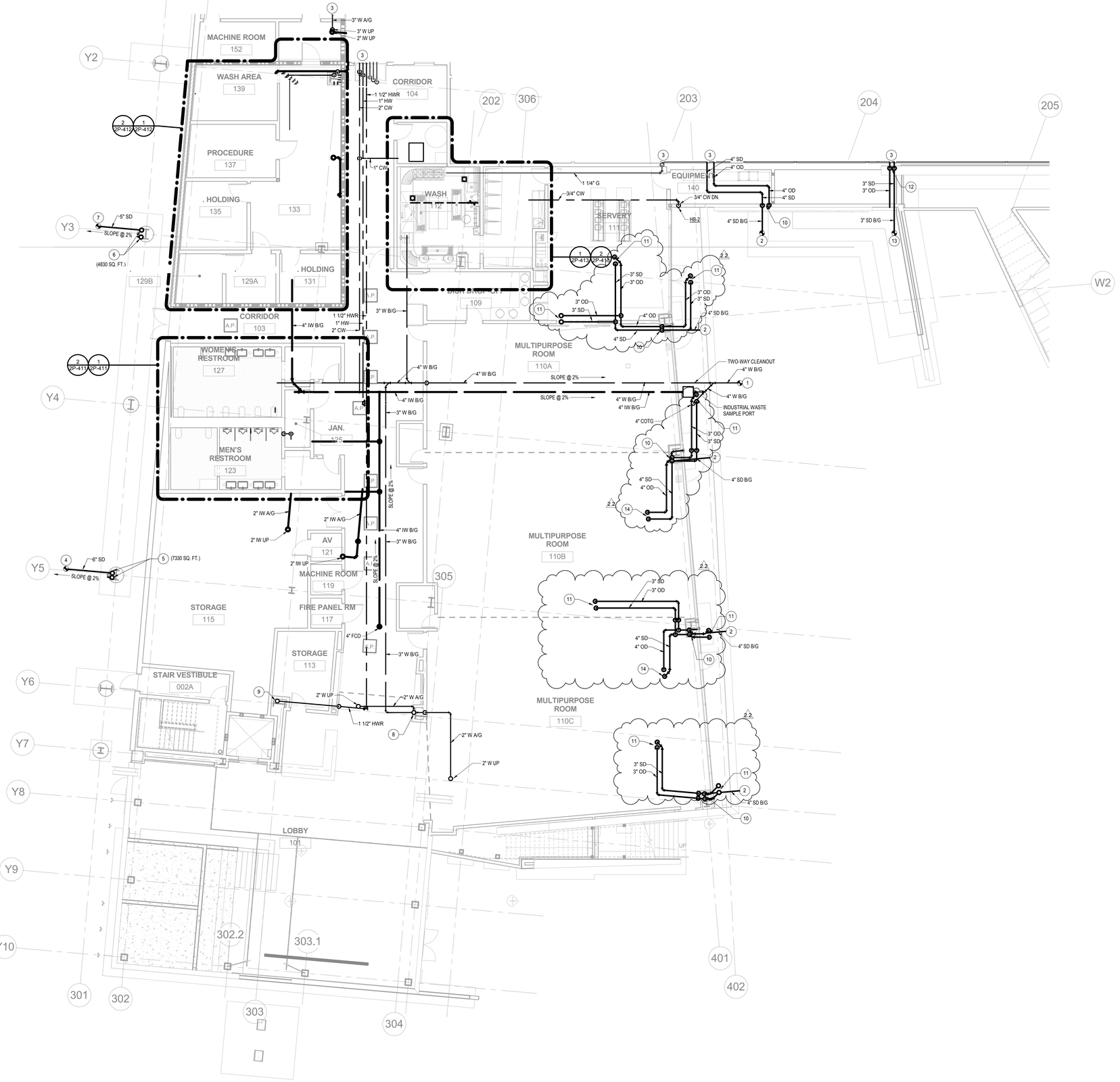
Sheet Title

PLUMBING FLOOR PLAN - LEVEL 01 - PART A

Sheet No.

2P-112

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



SHEET NOTES

1. 4" WASTE DRAIN. FOR CONTINUATION SEE SHEET PS-101.
2. 4" SD POC. FOR CONTINUATION SEE 2PS-101.
3. FOR CONTINUATION SEE SHEET 2P-112.
4. 6" SD POC. FOR CONTINUATION SEE 2PS-101.
5. 6" SD AND OD DOWN COLUMN. ROUTE SD BELOW GROUND TO STORM DRAIN SYSTEM AND DISCHARGE ORD 12" ABOVE FINISHED FLOOR.
6. 5" SD AND OD DOWN COLUMN. ROUTE SD BELOW GROUND TO STORM DRAIN SYSTEM AND DISCHARGE ORD 12" ABOVE FINISHED FLOOR.
7. 5" SD POC. FOR CONTINUATION SEE 2PS-101.
8. 3" WASTE UP; 3" WASTE DOWN TO BELOW SLAB.
9. 1-1/2" HWR UP TO FLOOR ABOVE.
10. 4" SD AND OD DOWN IN WALL. ROUTE SD BELOW GROUND TO STORM DRAIN SYSTEM AND DISCHARGE ORD 12" ABOVE FINISHED FLOOR.
11. 3" SD AND OD UP TO ROOF DRAINS.
12. 3" SD AND OD DOWN IN WALL. ROUTE SD BELOW GROUND TO STORM DRAIN SYSTEM AND DISCHARGE ORD 12" ABOVE FINISHED FLOOR.
13. 3" SD POC. FOR CONTINUATION SEE 2PS-101.
14. 4" SD AND OD UP TO ROOF DRAINS. 2.2

GENERAL NOTES

1. XXX

1 **PLUMBING FLOOR PLAN - LEVEL 01 - PART B**

1/2P-111 | 1/8" = 1'-0"

N

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING FLOOR PLAN - LEVEL 01 - PART B

Sheet No.
2P-113

10/2/2017 12:45:43 PM
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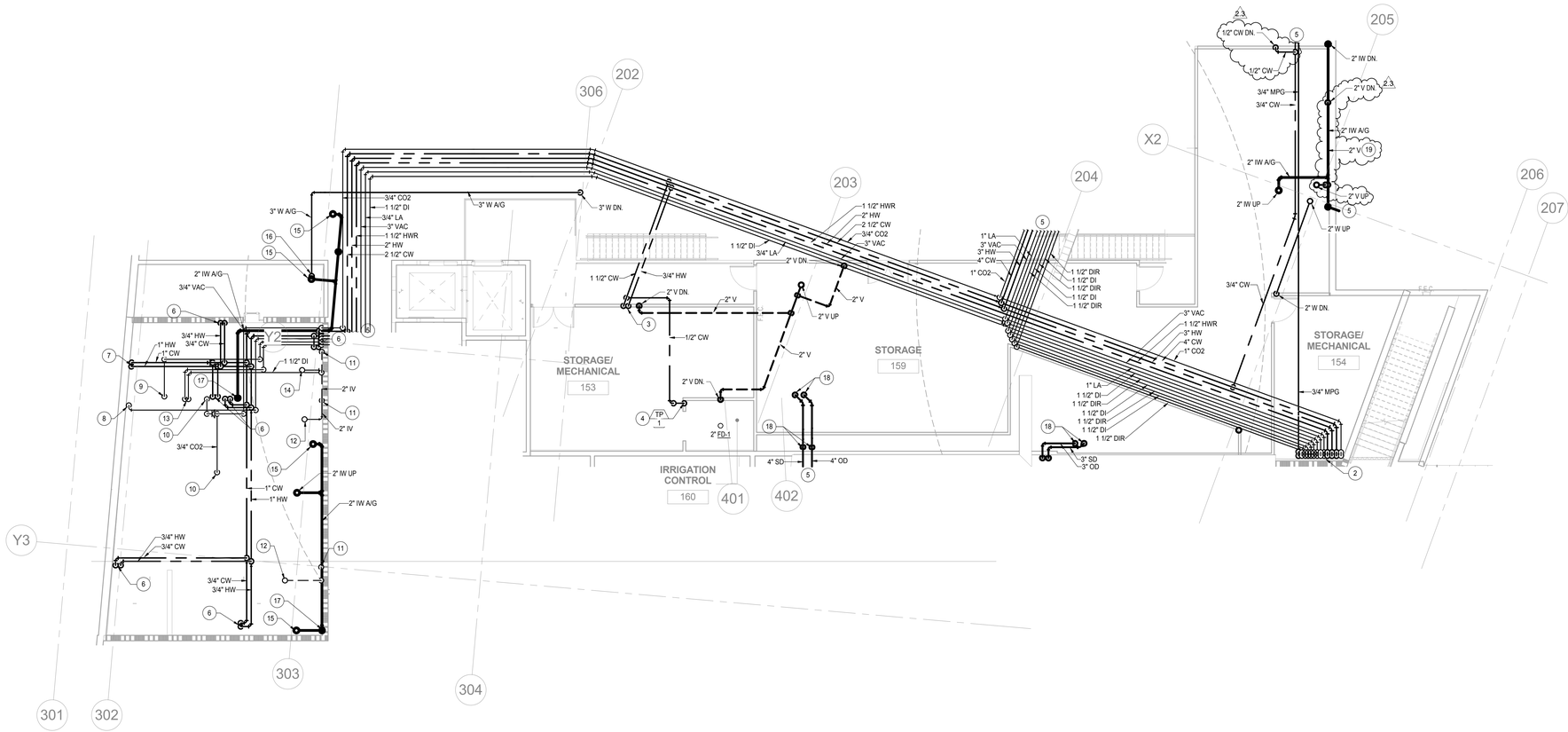
DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



1 PLUMBING FLOOR PLAN - MEZZANINE LEVEL

1/8" = 1'-0"

N

SHEET NOTES

1. 4" CW, 3" HW, 3" VAC, 1" LA, 1" CO2 AND (3) 1-1/2" DI AND DIR. FOR CONTINUATION SEE SHEET 2P-112.
2. 4" CW, 3" HW, 1-1/2" HWR, 3" VAC, 1" LA, 3/4" MPG, 1" CO2, (3) 1-1/2" DI AND DIR DOWN TO MAIN UTILITY ROOM.
3. 1-1/2" CW AND 3/4" HW DOWN IN WALL TO SERVE RESTROOMS BELOW.
4. PROVIDE TRAP PRIMER WITH ACCESS PANEL.
5. FOR CONTINUATION SEE SHEET 2P-112.
6. 3/4" CW AND HW DOWN TO FLOOR BELOW.
7. 1" CW AND HW DOWN TO FLOOR BELOW.
8. 3/4" VAC DOWN TO FLOOR BELOW.
9. 1/2" LA DOWN TO FLOOR BELOW.
10. 1/2" CO2 DOWN TO FLOOR BELOW.
11. 2" IV DOWN TO FLOOR BELOW.
12. 2" IV UP TO FLOOR ABOVE.
13. 1-1/2" DI DOWN TO FLOOR BELOW.
14. 1-1/2" DI UP TO FLOOR ABOVE.
15. 2" IW FROM FLOOR ABOVE.
16. 3" WASTE FROM FLOOR ABOVE.
17. 2" IW DOWN TO FLOOR BELOW.
18. 3" SD & OD UP TO ROOF DRAINS.
19. RUN 2" VENT TIGHT TO WALL. 2.3

GENERAL NOTES

1. XXX

11/17/2017 9:32:59 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

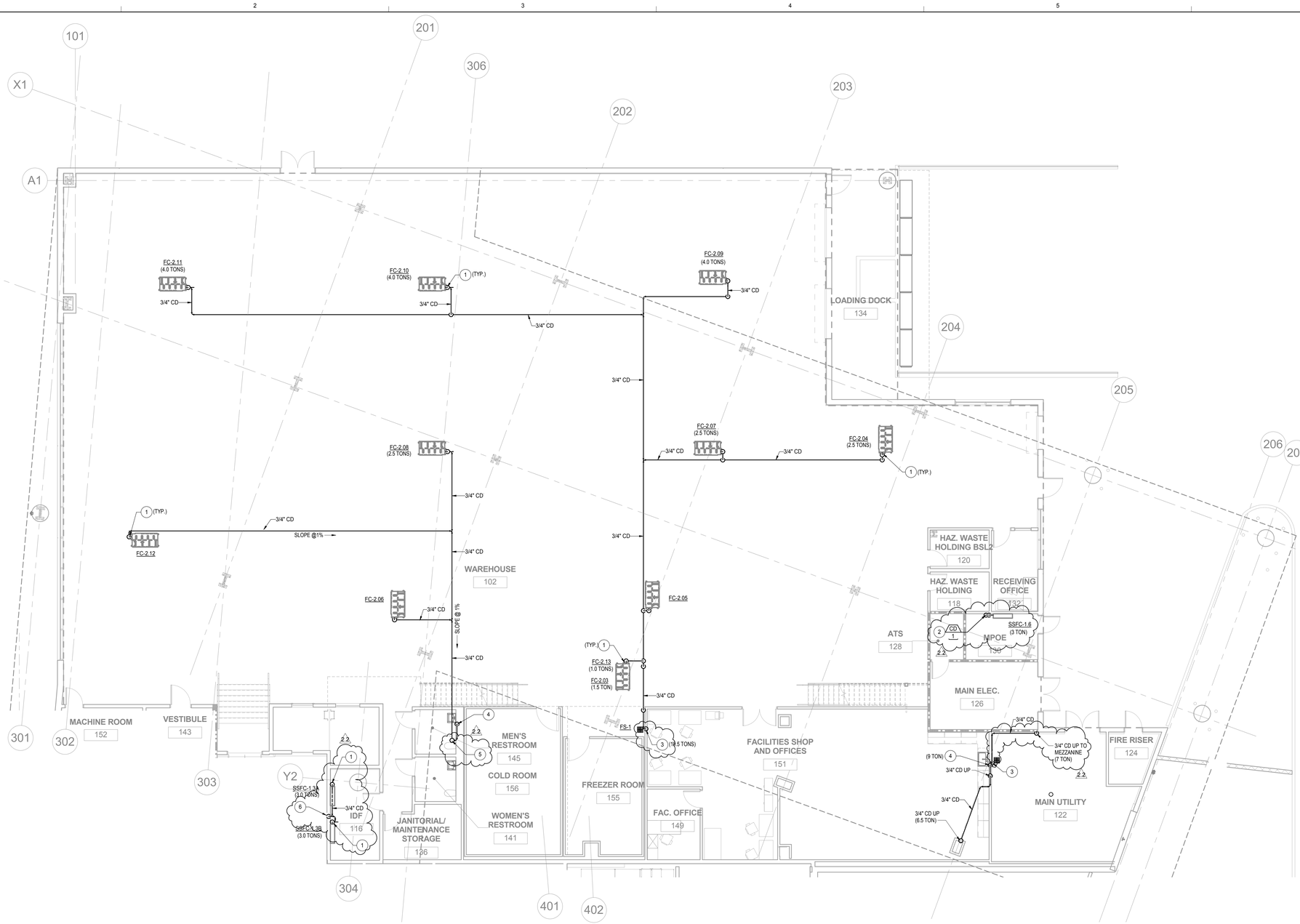
CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING FLOOR PLAN - MEZZANINE LEVEL

Sheet No.
2P-114

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 12:45:49 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



1 PLUMBING CONDENSATE FLOOR PLAN - LEVEL 01 - PART A

1/8" = 1'-0"

N

SHEET NOTES

1. PROVIDE TRAP & VENT AT FAN COIL CONDENSATE DRAIN CONNECTION.
2. PUMP CONDENSATE TO HIGHEST POINT. 2 2
3. 3/4" CD DOWN TIGHT TO WALL & TERMINATE INTO FLOOR SINK WITH 2" AIRGAP.
4. 3/4" CONDENSATE DOWN IN WALL. DISCHARGE TO LAVATORY TAILPIECEPER PER CPC 804.3. FOR DETAIL SEE 2/2P-501.
5. DROP 3/4" CD DOWN WALL IN MEZZANINE LEVEL.
6. 3/4" CD DOWN IN WALL. DISCHARGE TO MOP SINK WITH 2" AIR GAP.

GENERAL NOTES

1. XXX

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

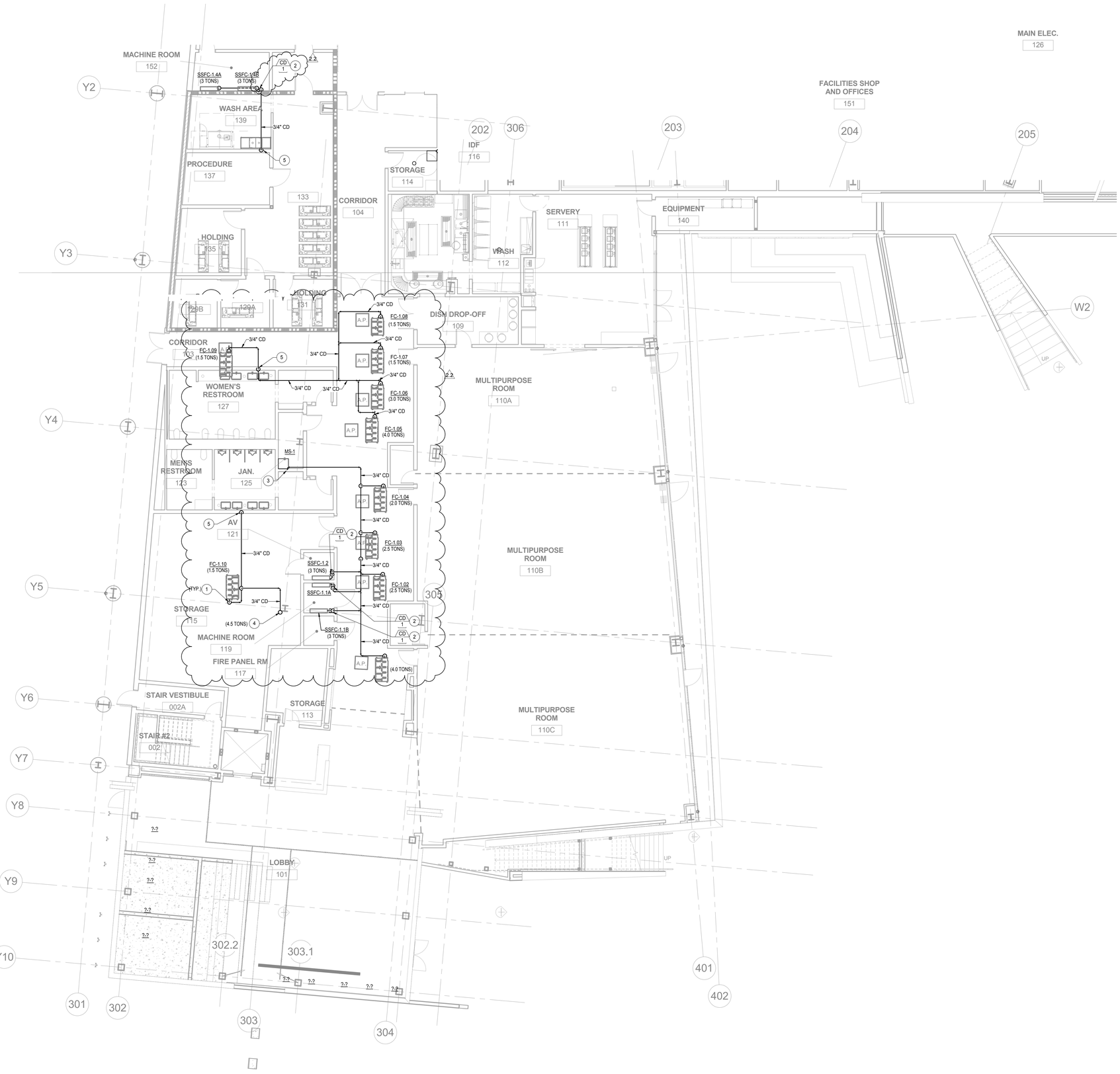
CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING CONDENSATE FLOOR PLAN - LEVEL 01 - PART A

2P-115

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



SHEET NOTES

1. PROVIDE TRAP AND VENT AT FAN COIL CONDENSATE DRAIN CONNECTION.
2. PUMP CONDENSATE TO HIGHEST POINT.
3. CONDENSATE DOWN IN WALL AND DISCHARGE INTO MOPSINK. PROVIDE AIR GAP AT TERMINATION.
4. 3/4" CONDENSATE UP TO FLOOR ABOVE. 2.2
5. ROUTE 3/4" CD DOWN IN WALL TO LAVATORY/SINK TAILPIECE PER CPC 804.3. FOR DETAIL SEE 2/2P-501.

GENERAL NOTES

1. XXX

1 **PLUMBING CONDENSATE FLOOR PLAN - LEVEL 01 - PART B**

/ 1/8" = 1'-0"

N

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING CONDENSATE FLOOR PLAN - LEVEL 01 - PART B

2P-116

10/2/2017 12:45:59 PM
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DPR Issued Sheet 2017-10-03
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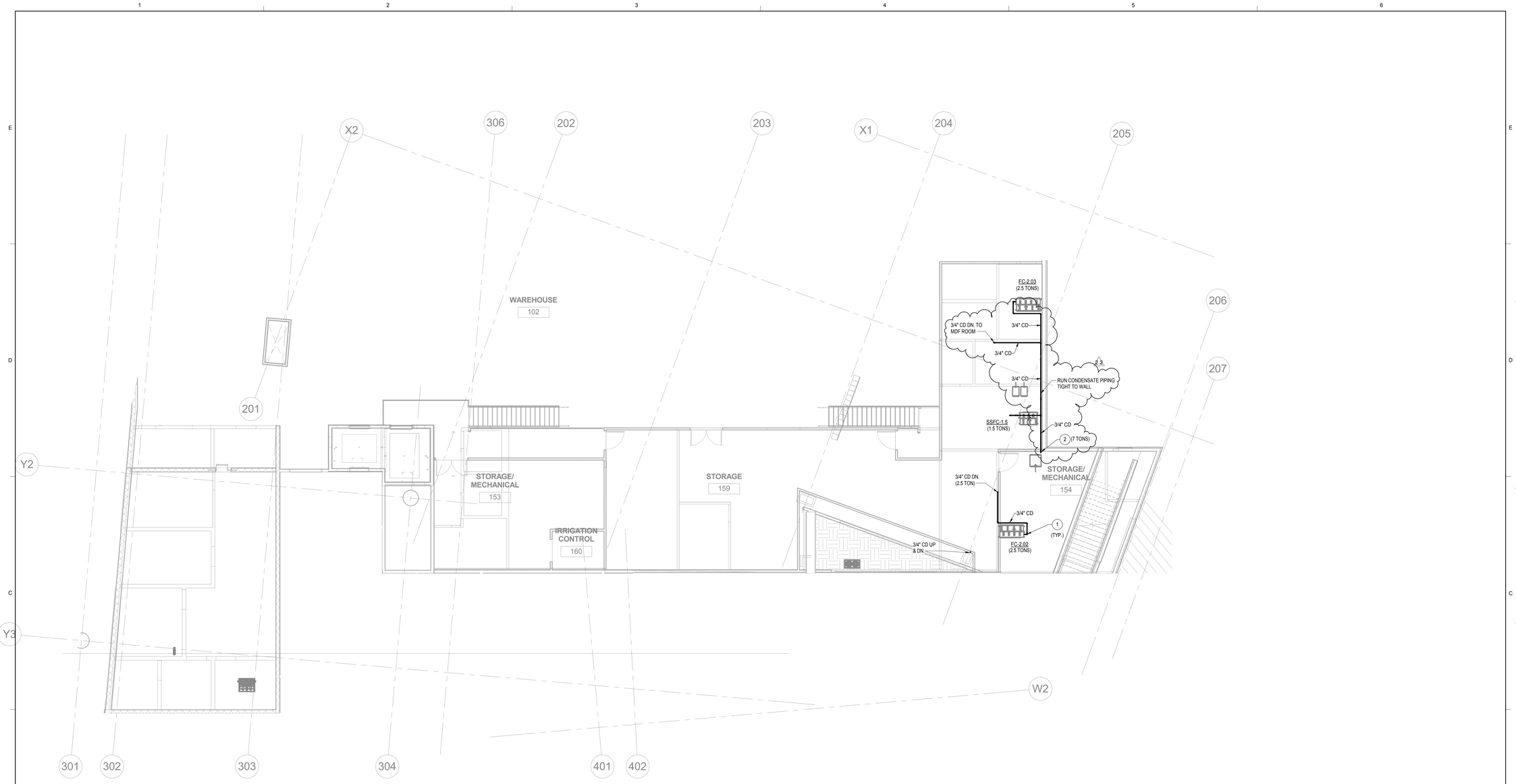
10/2/2017 12:46:01 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 PLUMBING CONDENSATE FLOOR PLAN - MEZZANINE LEVEL

1/8" = 1'-0"

N

SHEET NOTES

1. PROVIDE TRAP & VENT AT FAN COIL CONDENSATE DRAIN CONNECTION.
2. 3/4" CONDENSATE DOWN IN WALL TO FLOOR BELOW.

GENERAL NOTES

1. XXX

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING CONDENSATE FLOOR PLAN - MEZZANINE LEVEL

2P-117

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

8/7/2017 1:26:47 PM
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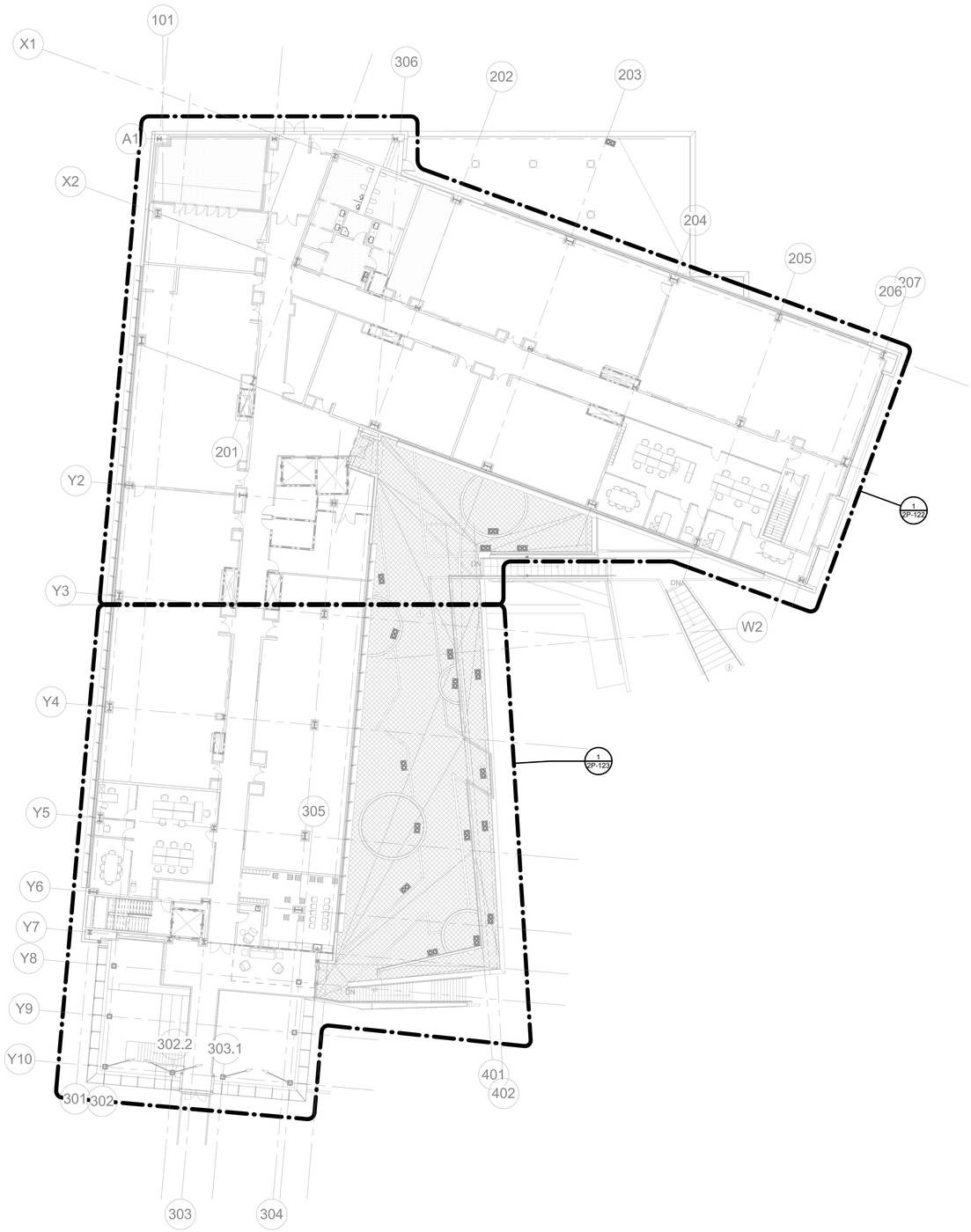

SHEET NOTES

1. xxx

GENERAL NOTES

1. XXX

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
1	04.25.17	DESIGN DEVELOPMENT
2	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING OVERALL PLAN - LEVEL 02

Sheet No.

2P-121

1 **PLUMBING OVERALL PLAN - LEVEL 02**

1/16" = 1'-0"

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

11/17/2017 9:33:14 AM
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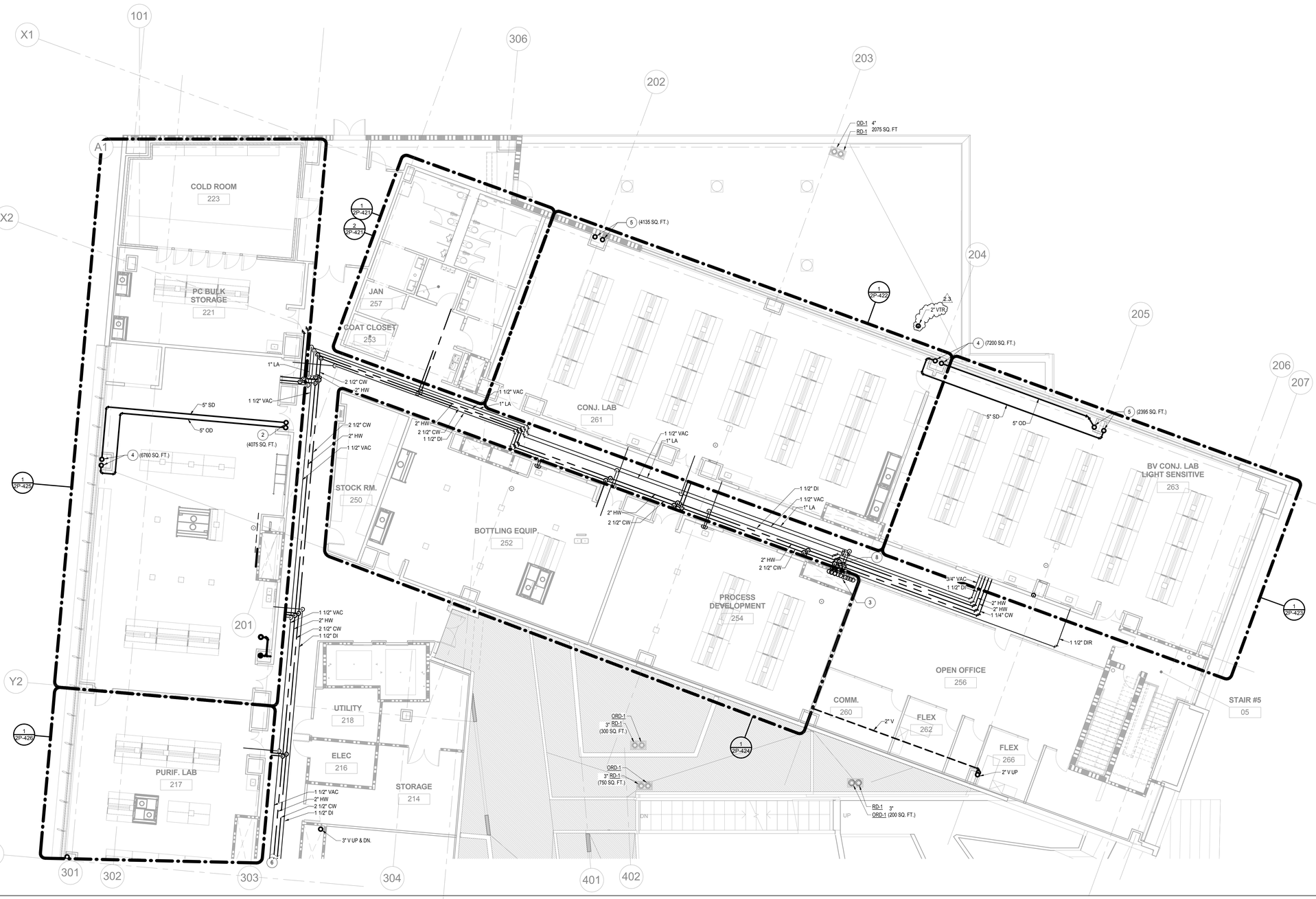
ALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



1 PLUMBING FLOOR PLAN - LEVEL 02 - PART A

1/2P-121 | 1/8" = 1'-0"

N

SHEET NOTES

1. 4" INDUSTRIAL WASTE DOWN TO FLOOR BELOW.
2. 5" SD AND OD UP.
3. 4" CW, 3" HW, 1-1/2" DI, 1-1/2" DIR, 3" LV & 1" LA PIPING RISERS.
4. 5" SD AND OD UP & DOWN.
5. 4" SD AND OD UP.
6. FOR CONTINUATION SEE SHEET 2P-123.
7. 2" INDUSTRIAL WASTE UP TO FLOOR ABOVE.
8. 2" CW, 2" HW, 3" LV, 3/4" LA, 3/4" CO2 CAPPED AT SHAFT & 1-1/2" DIS & DIR.

GENERAL NOTES

1. XXX

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING FLOOR PLAN - LEVEL 02 - PART A

Sheet No.
2P-122

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

8/29/2017 11:42:56 AM
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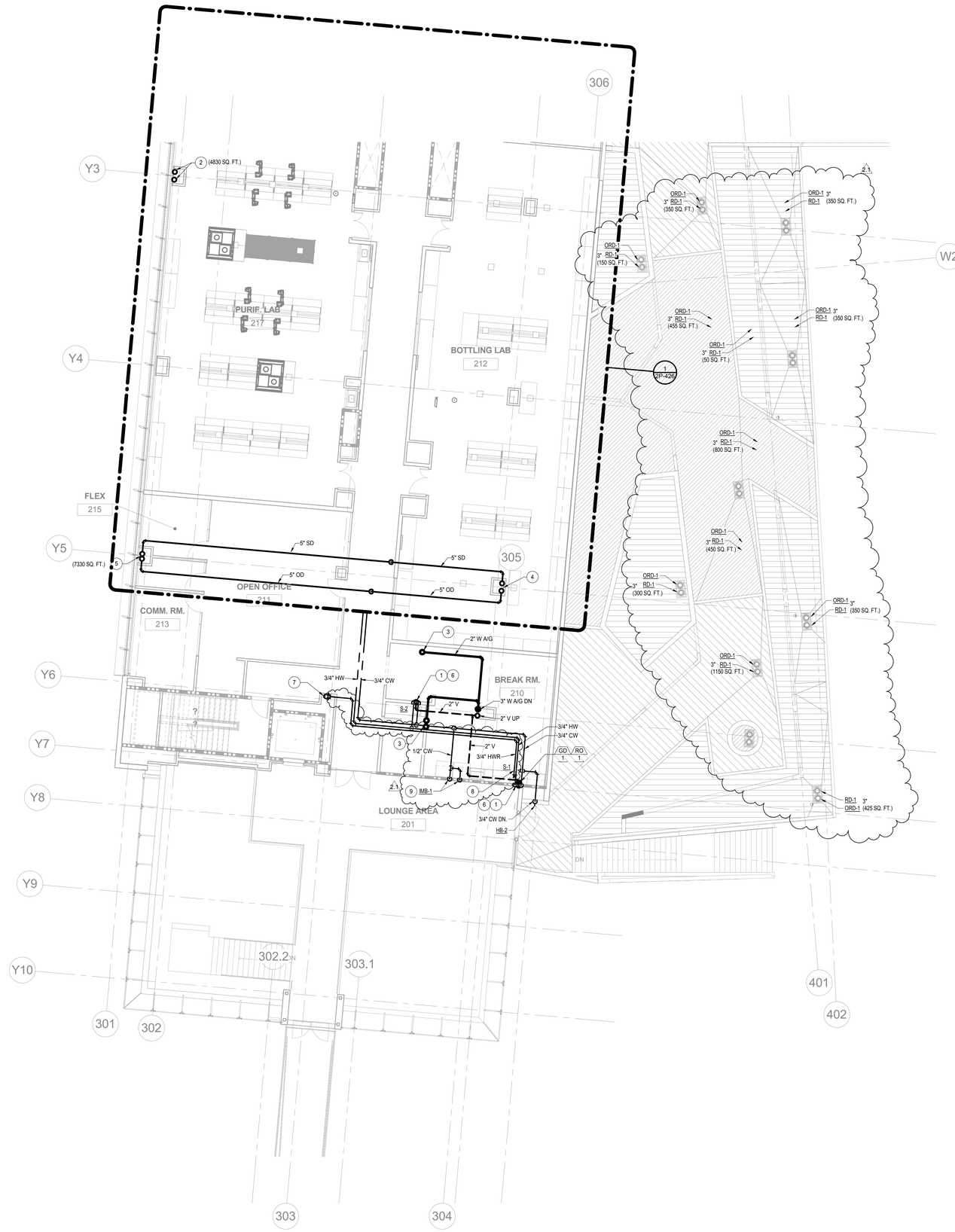

SHEET NOTES

1. 2" WASTE DOWN, 2" V UP..
2. 4" SD AND OD UP TO FLOOR ABOVE.
3. 2" W UP TO FLOOR ABOVE.
4. 5" SD AND OD UP.
5. 5" SD & OD UP AND DOWN.
6. 3/4" CW & HW DOWN IN WALL TO SUPPLY SINK.
7. 1-1/4" HWR RISER.
8. PROVIDE BALANCING VALVE WITH ACCESS PANEL. CONTRACTOR TO SET TO MINIMUM FLOW REQUIREMENTS. (2.1)
9. 1/2" CW DOWN IN WALL TO ICE MAKER BOX.

GENERAL NOTES

1. XXX

1 **PLUMBING FLOOR PLAN - LEVEL 02 - PART B**

1/2P-121 1/8" = 1'-0"

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING FLOOR PLAN - LEVEL 02 - PART B

Sheet No.
2P-123

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

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8/7/2017 1:27:26 PM



1 PLUMBING CONDENSATE FLOOR PLAN - LEVEL 02 - PART A

1/8" = 1'-0"

SHEET NOTES

1. PROVIDE TRAP & VENT AT FAN COIL CONDENSATE DRAIN CONNECTION.
2. PUMP CONDENSATE TO HIGHEST POINT.
3. 3/4" CONDENSATE DOWN IN WALL & DISCHARGE INTO FLOOR SINK. PROVIDE AIR GAP AT TERMINATION.
4. CONDENSATE DOWN IN WALL & DISCHARGE INTO MOP SINK. PROVIDE AIR GAP AT TERMINATION.
5. CONDENSATE DOWN IN UMBILICAL AND CONNECT TO LAB SINK TAIL PIECE.
6. CONDENSATE DOWN TIGHT TO COLUMN TO FLOOR BELOW.

GENERAL NOTES

1. XXX

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
1	04.25.17	DESIGN DEVELOPMENT
2	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING CONDENSATE FLOOR PLAN - LEVEL 02 - PART A

2P-124

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

8/7/2017 1:27:39 PM
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SHEET NOTES

1. PROVIDE TRAP & VENT AT FAN COIL CONDENSATE DRAIN CONNECTION.
2. CONDENSATE DOWN IN UMBILICAL AND CONNECT TO LAB SINK TAILPIECE.
3. CONDENSATE DOWN IN WALL & CONNECT TO SINK TAILPIECE.
4. CONDENSATE DOWN TIGHT TO COLUMN TO FLOOR BELOW.

GENERAL NOTES

1. XXX

1	PLUMBING CONDENSATE FLOOR PLAN - LEVEL 02 - PART B
/	1/8" = 1'-0"

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
1	04.25.17	DESIGN DEVELOPMENT
2	08.08.17	CITY SUBMITTAL SET

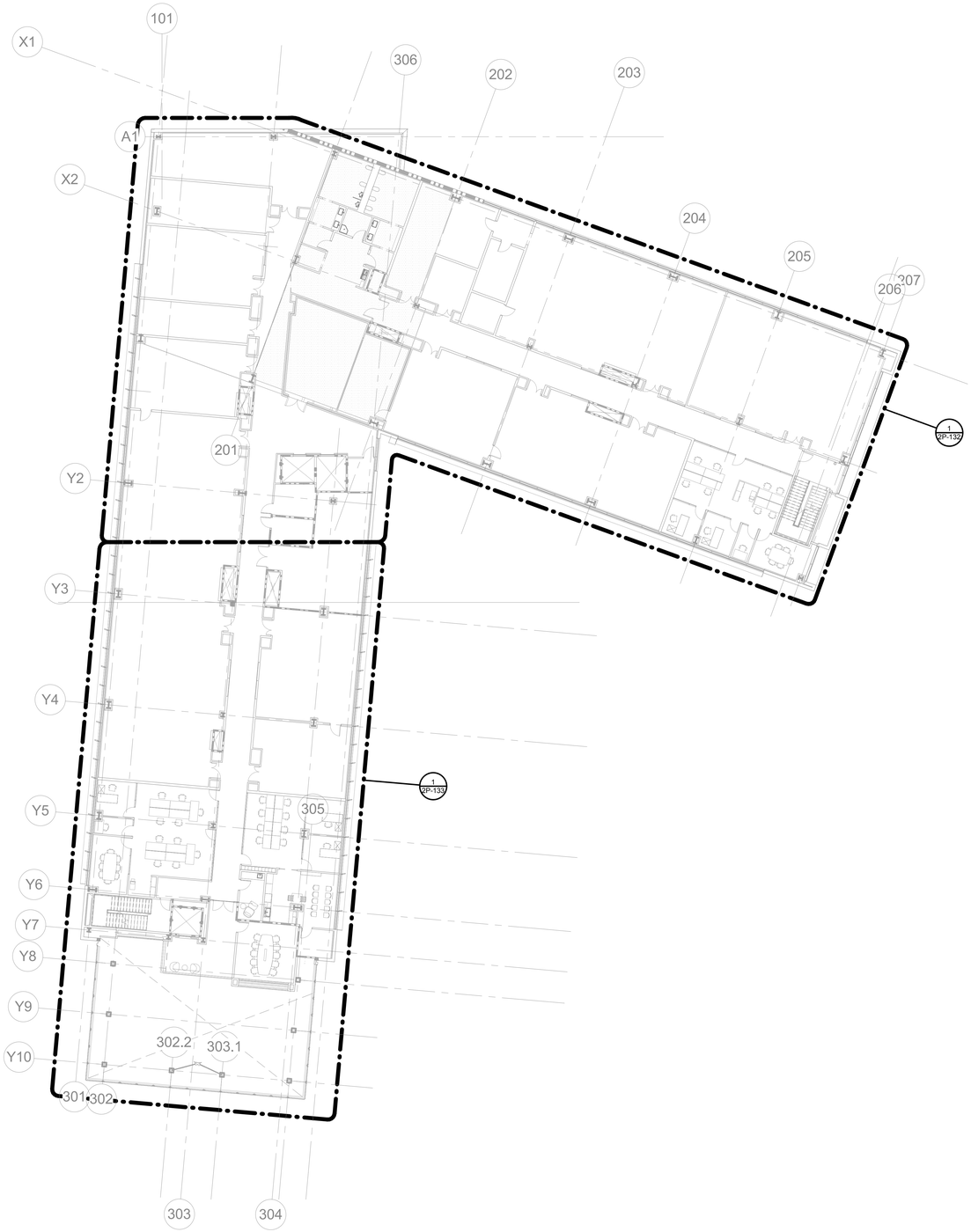
CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING CONDENSATE FLOOR PLAN - LEVEL 02 - PART B

2P-125

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



SHEET NOTES

1. xxx

GENERAL NOTES

1. xxx

8/7/2017 1:27:44 PM
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1 **PLUMBING OVERALL PLAN - LEVEL 03**

1/16" = 1'-0"

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
1	04.25.17	DESIGN DEVELOPMENT
2	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

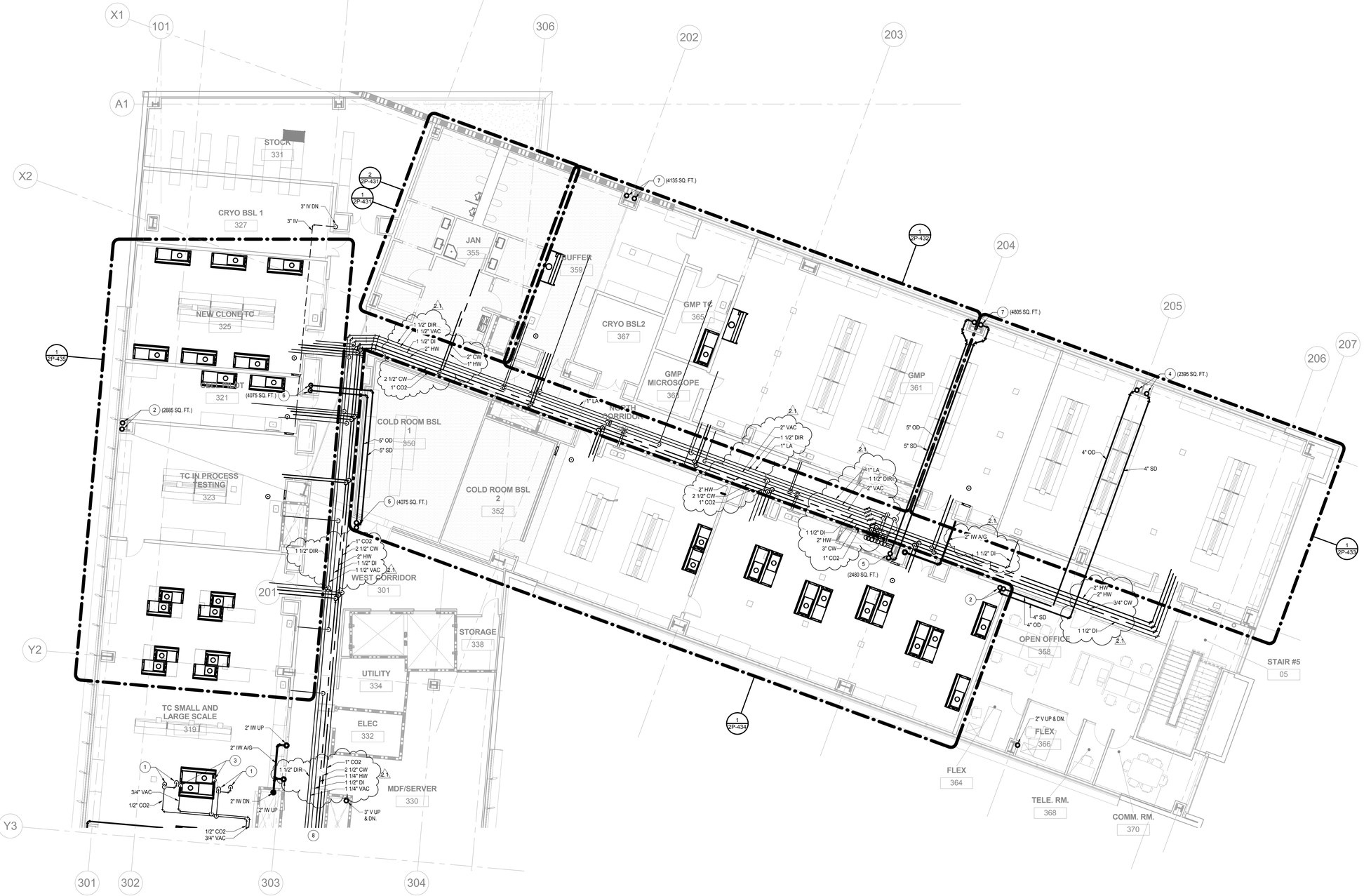
PLUMBING OVERALL PLAN - LEVEL 03

Sheet No.

2P-131

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

8/29/2017 11:43:04 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



1 PLUMBING FLOOR PLAN - LEVEL 03 - PART A

1/2P-131 1/8" = 1'-0"

SHEET NOTES

1. 1/2" CO2 DOWN TO INCUBATOR UTILITY CONNECTION.
2. 4" SD AND OD UP TO FLOOR ABOVE.
3. 3/4" VAC DOWN TO BIO-SAFETY CABINET UTILITY CONNECTION.
4. 4" SD AND OD UP & DOWN.
5. 5" SD AND OD UP TO FLOOR ABOVE.
6. 5" SD AND OD DOWN.
7. 5" SD AND OD UP AND DOWN.
8. FOR CONTINUATION SEE SHEET 2P-133.

GENERAL NOTES

1. XXX

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

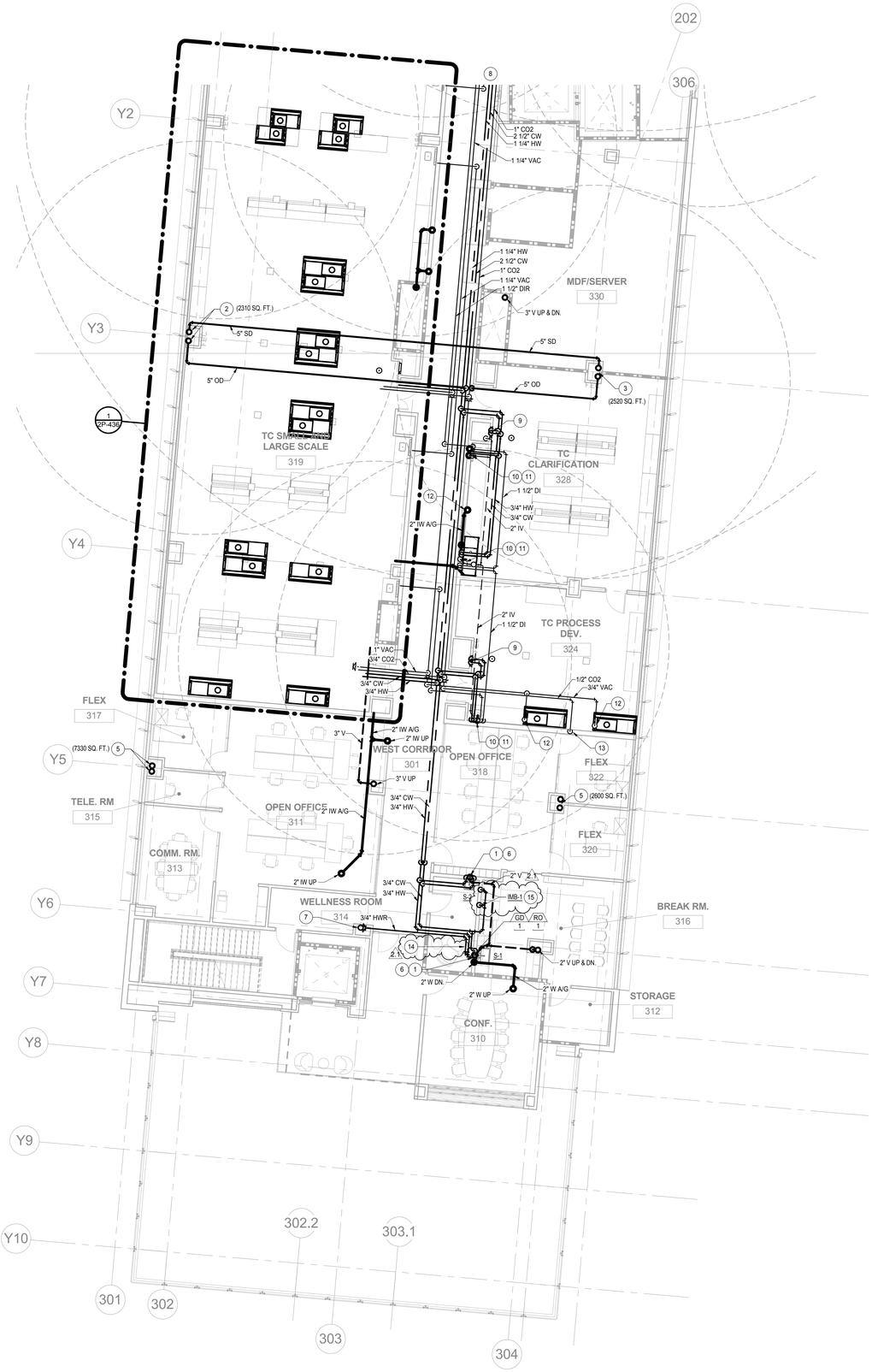
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING FLOOR PLAN - LEVEL 03 - PART A

Sheet No.
2P-132

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001



SHEET NOTES

1. 2" WASTE DOWN, 2" V UP.
2. 4" SD & OD UP AND DOWN.
3. 5" SD & OD UP TO FLOOR ABOVE.
4. 5" SD & OD DOWN.
5. 5" SD & OD UP AND DOWN.
6. 3/4" CW & HW DOWN IN WALL TO SUPPLY SINK.
7. 1-1/4" HWR RISER.
8. FOR CONTINUATION SEE SHEET 2P-132.
9. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE & SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
10. 2" IW DOWN, 2" IV UP.
11. 3/4" CW, HW, 1-1/2" DI AND 1-1/2" DIR DOWN UMBILICAL TO LAB FIXTURES.
12. 3/4" VAC DOWN TO BIO-SAFETY CABINET UTILITY CONNECTION.
13. 1/2" CO2 DOWN TO INCUBATOR UTILITY CONNECTION. 2.1
14. PROVIDE BALANCING VALVE WITH ACCESS. CONTRACTOR TO SET TO MINIMUM FLOW REQUIREMENTS.
15. 1/2" CW DOWN IN WALL TO ICE MAKER BOX.

GENERAL NOTES

1. XXX

1 **PLUMBING FLOOR PLAN - LEVEL 03 - PART B**

1/2P-131 1/8" = 1'-0"

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING FLOOR PLAN - LEVEL 03 - PART B

Sheet No.
2P-133

8/29/2017 11:43:10 AM
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1 PLUMBING CONDENSATE FLOOR PLAN - LEVEL 03 - PART A

1/8" = 1'-0"

N

SHEET NOTES

1. PROVIDE TRAP & VENT AT FAN COIL CONDENSATE DRAIN CONNECTION.
2. PUMP CONDENSATE TO HIGHEST POINT.
3. CONDENSATE DOWN IN WALL & DISCHARGE INTO MOP SINK. PROVIDE AIR GAP AT TERMINATION.
4. CONDENSATE DOWN IN UMBILICAL AND CONNECT TO LAB SINK TAIL PIECE.
5. ROUTE 3/4" CD DOWN IN WALL TO FLOOR SINK. PROVIDE 2" AIR GAP AT TERMINATION.

2.2

GENERAL NOTES

1. XXX

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING CONDENSATE FLOOR PLAN - LEVEL 03 - PART A

2P-134

10/2/2017 12:47:34 PM
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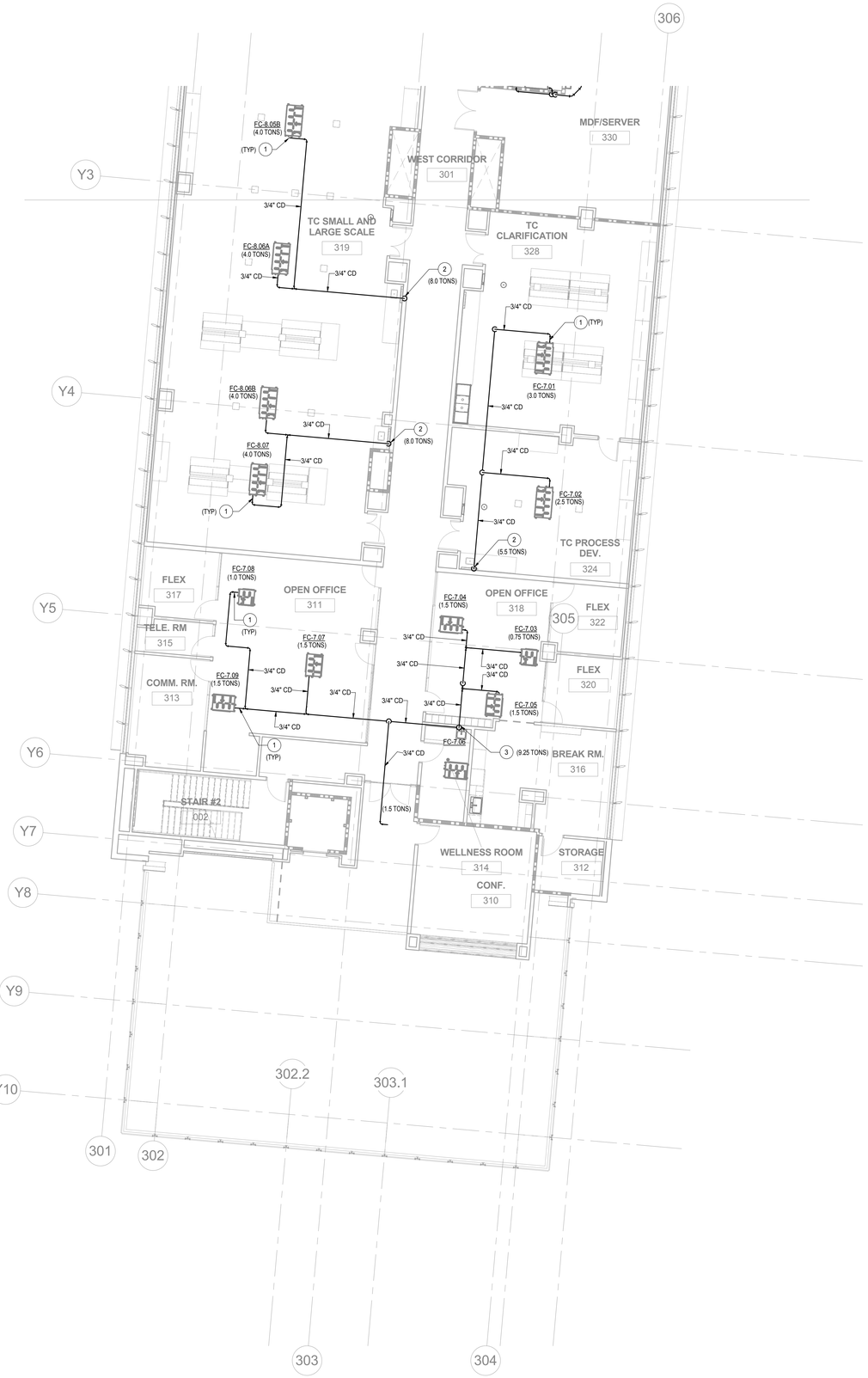

SHEET NOTES

1. PROVIDE TRAP AND VENT AT FAN COIL CONDENSATE DRAIN CONNECTION.
2. CONDENSATE DOWN IN UMBILICAL AND CONNECT TO LAB SINK TAILPIECE.
3. CONDENSATE DOWN IN WALL AND CONNECT TO SINK TAILPIECE.

GENERAL NOTES

1. XXX

1 **PLUMBING CONDENSATE FLOOR PLAN - LEVEL 03 - PART B**

1/8" = 1'-0"

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
1	04.25.17	DESIGN DEVELOPMENT
2	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING CONDENSATE FLOOR PLAN - LEVEL 03 - PART B

2P-135

8/7/2017 1:28:11 PM
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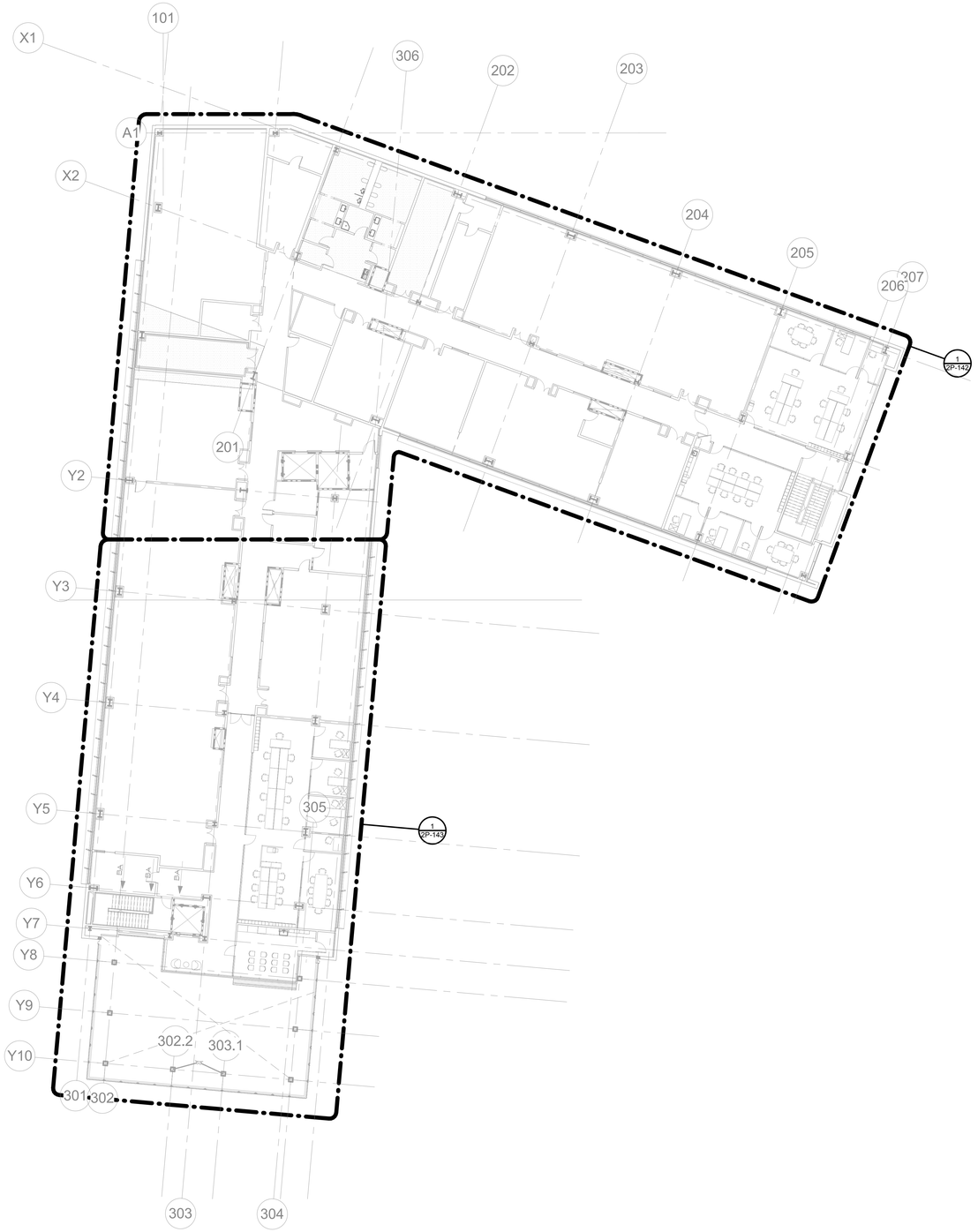

SHEET NOTES

1. xxx

GENERAL NOTES

1. XXX

GENE THEORY

CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
1	04.25.17	DESIGN DEVELOPMENT
2	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING OVERALL PLAN - LEVEL 04

Sheet No.

2P-141

1 **PLUMBING OVERALL PLAN - LEVEL 04**

/ 1/16" = 1'-0"

8/7/2017 1:28:16 PM
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DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

11/17/2017 9:33:32 AM
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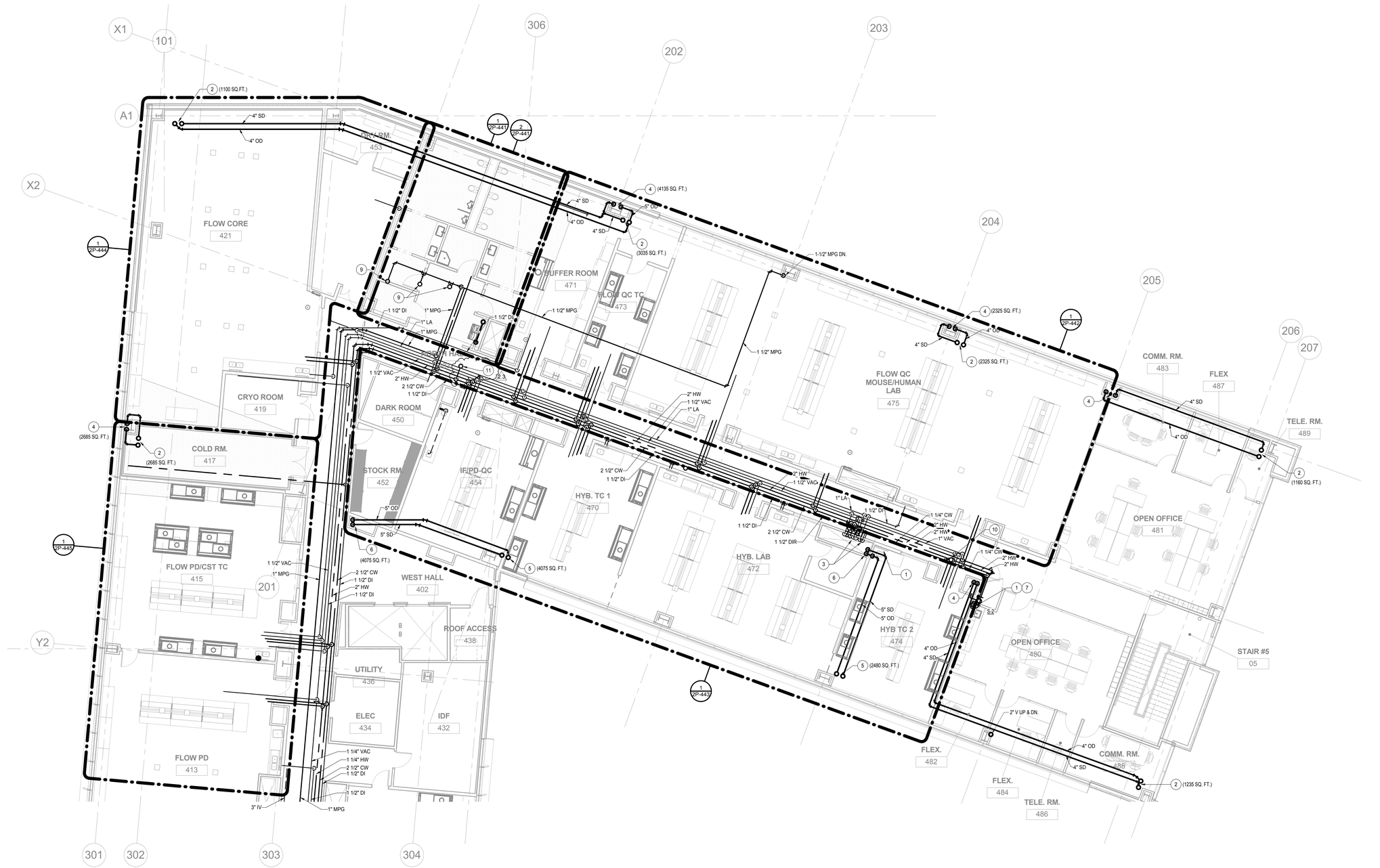


1 PLUMBING FLOOR PLAN - LEVEL 04 - PART A

1/2P-141 1/8" = 1'-0"

N

SHEET NOTES

1. 2 WASTE DOWN, 2" VENT UP.
2. 4" SD AND OD UP TO ROOF DRAINS.
3. CW, HW, HWR, DIR, VAC AND LA PIPING RISERS.
4. 4" SD AND OD DOWN.
5. 5" SD AND OD UP TO ROOF DRAINS.
6. 5" SD AND OD DOWN.
7. 3/4" CW & HW DOWN IN WALL TO SUPPLY SINK.
8. FOR CONTINUATION SEE SHEET 2P-143.
9. 3/4" MPG UP TO ROOF.
10. 3/4" CW UP THRU ROOF.
11. 1" CW UP THRU ROOF. 2.3

GENERAL NOTES

1. XXX

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

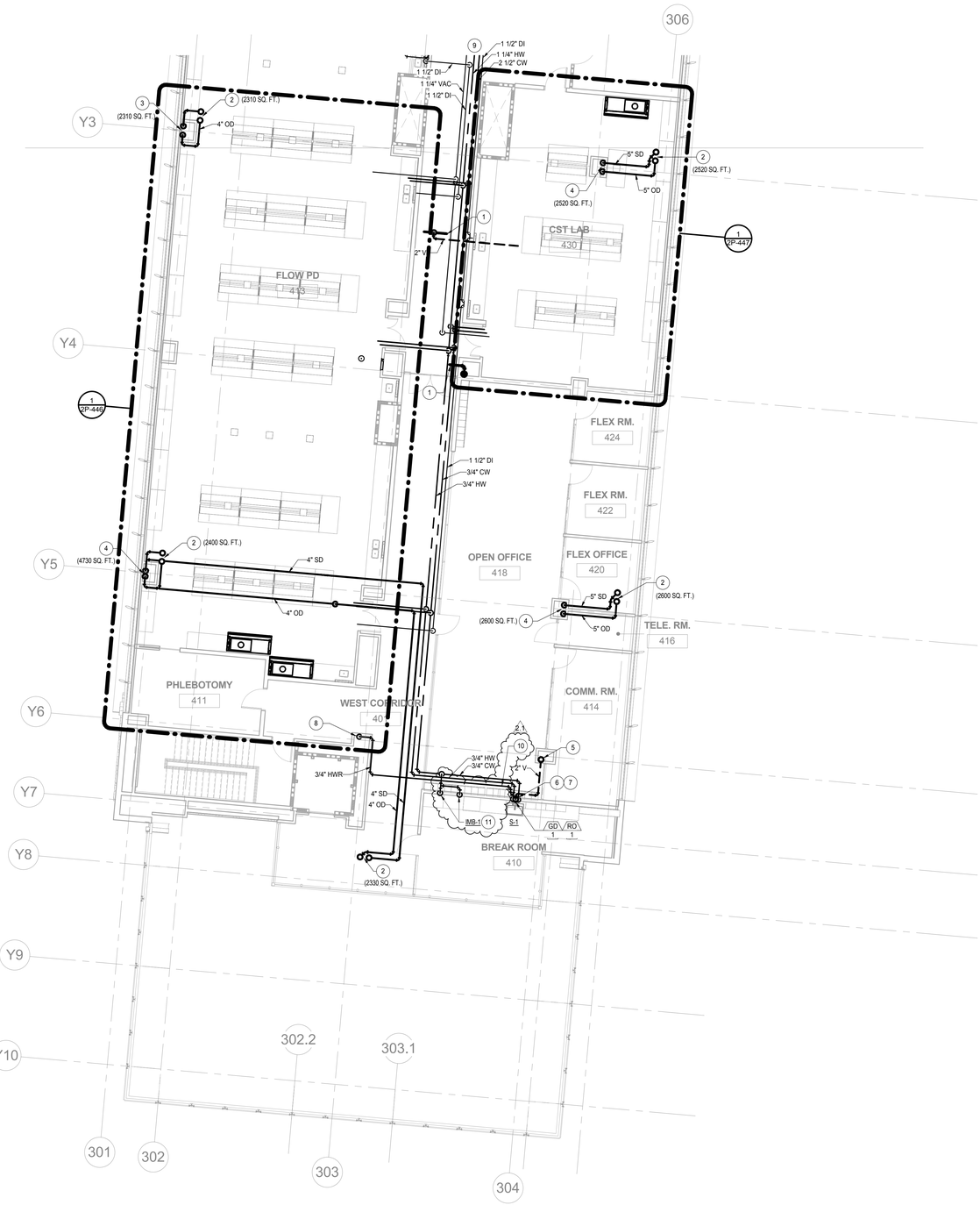
PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING FLOOR PLAN - LEVEL 04 - PART A

Sheet No.
2P-142



SHEET NOTES

1. 3" WASTE UP TO ROOF RECEPTOR.
2. 4" SD AND OD UP TO ROOF DRAINS.
3. 4" SD AND OD DOWN.
4. 5" SD AND OD DOWN.
5. 2" VENT DOWN; 2" VENT THRU ROOF.
6. 2" WASTE DOWN, 2" VENT UP.
7. 3/4" CW & HW DOWN IN WALL TO SUPPLY SINK.
8. 1-1/4" HWR DOWN TO FLOOR BELOW.
9. FOR CONTINUATION SEE SHEET 2P-142
10. PROVIDE BALANCING VALVE WITH ACCESS. CONTRACTOR TO SET TO MINIMUM FLOW REQUIREMENT.
11. 1/2" CW DOWN IN WALL TO ICE MAKER BOX.

2.1

GENERAL NOTES

1. XXX

1 **PLUMBING FLOOR PLAN - LEVEL 04 - PART B**

1/2P-141 1/8" = 1'-0"

8/29/2017 11:43:27 AM
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GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING FLOOR PLAN - LEVEL 04 - PART B

Sheet No.
2P-143

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001



1 PLUMBING CONDENSATE FLOOR PLAN - LEVEL 04 - PART A

1/8" = 1'-0"

SHEET NOTES

1. PROVIDE TRAP AND VENT AT FAN COIL CONDENSATE DRAIN CONNECTION.
2. PUMP CONDENSATE TO HIGHEST POINT.
3. CONDENSATE DOWN IN WALL AND DISCHARGE INTO MOP SINK. PROVIDE AIR GAP AT TERMINATION.
4. CONDENSATE DOWN IN UMBILICAL AND CONNECT TO LAB SINK TAIL PIECE.
5. CONDENSATE DOWN IN UMBILICAL AND CONNECT TO SINK TAIL PIECE.

GENERAL NOTES

1. XXX

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
1	04.25.17	DESIGN DEVELOPMENT
2	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING CONDENSATE FLOOR PLAN - LEVEL 04 - PART A

2P-144

8/7/2017 1:28:48 PM
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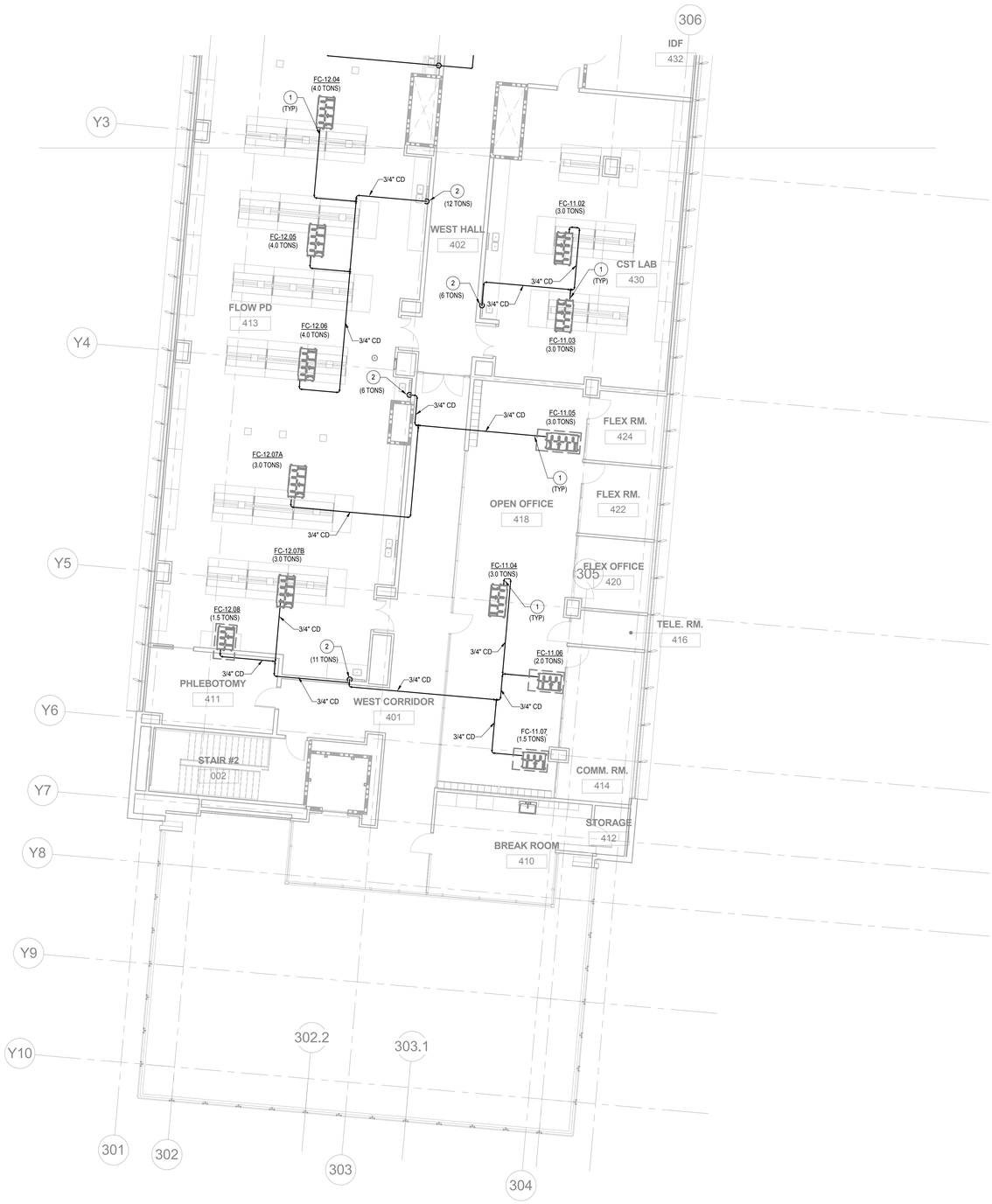

SHEET NOTES

1. PROVIDE TRAP AND VENT AT FAN COIL CONDENSATE DRAIN CONNECTION.
2. CONDENSATE DOWN IN UMBILICAL AND CONNECT TO LAB SINK TAIL PIECE.

GENERAL NOTES

1. XXX

1 **PLUMBING CONDENSATE FLOOR PLAN - LEVEL 04 - PART B**

1/8" = 1'-0"

8/7/2017 1:28:54 PM
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GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
1	04.25.17	DESIGN DEVELOPMENT
2	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING CONDENSATE FLOOR PLAN - LEVEL 04 - PART B

2P-145

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

8/7/2017 1:29:01 PM
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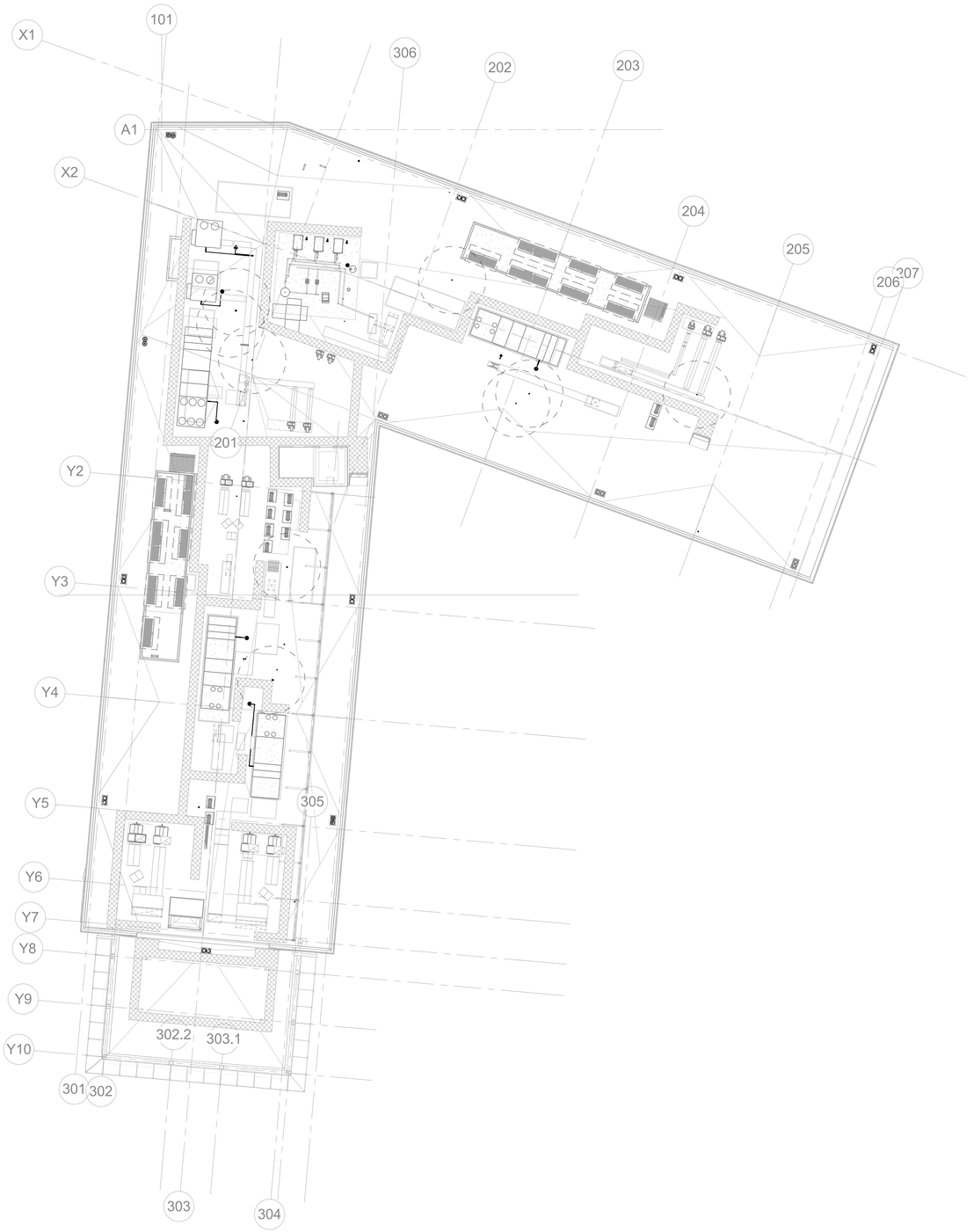

SHEET NOTES

1. xxx

GENERAL NOTES

1. XXX

1 **PLUMBING OVERALL PLAN - ROOF LEVEL**

1/16" = 1'-0"

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
1	04.25.17	DESIGN DEVELOPMENT
2	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING OVERALL PLAN - ROOF LEVEL

Sheet No.
2P-151

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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11/17/2017 9:33:36 AM



1 PLUMBING FLOOR PLAN - ROOF LEVEL - PART A

1/8" = 1'-0"

N

SHEET NOTES

1. FOR CONDENSATE TRAP DETAIL, SEE 1/2P-501.
2. ROUTE 1-1/4" CD DOWN TO ROOF RECEPTOR. DISCHARGE CD INTO ROOF RECEPTOR WITH A 2" AIR GAP.
3. ROUTE 1" CD DOWN TO ROOF RECEPTOR. DISCHARGE CD INTO ROOF RECEPTOR WITH A 2" AIR GAP.
4. ROUTE 3/4" CD DOWN TO ROOF RECEPTOR. DISCHARGE CD INTO ROOF RECEPTOR WITH A 2" AIR GAP.
5. 3/4" MPG DOWN THRU ROOF.
6. GAS PRV SHALL BE RATED @ 5 PSI TO 7" W.C. FOR 500 CFH, FOR PRV DETAIL SEE 8/2P-502.
7. 1" CW DOWN THRU ROOF.
8. 1" ICW SUPPLY TO RO SKID.
9. 3/4" RO WATER SUPPLY TO HUMIDIFIERS.
11. ROUTE TEMPERATURE PRESSURE RELEIF VALVE FROM BOLERS TO ROOF RECEPTOR, PROVIDE AIR GAP AT TERMINATION.
12. 1" MPG DOWN THRU ROOF.
13. GAS PRV SHALL BE RATED @ 5 PSI TO 7" W.C. FOR 813 CFH, FOR PRV DETAIL SEE 8/2P-502. 2, 3
14. PROVIDE 3/4" CONDENSATE TRAP CONNECTION TO FAN DRAIN OUTLET. ROUTE CONDENSATE DOWN SHAFT TO CONDENSATE PIPING BELOW.

GENERAL NOTES

1. PLUMBING VENTS SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM AIR INTAKE.

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING FLOOR PLAN - ROOF LEVEL - PART A

Sheet No.

2P-152

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 12:48:46 PM
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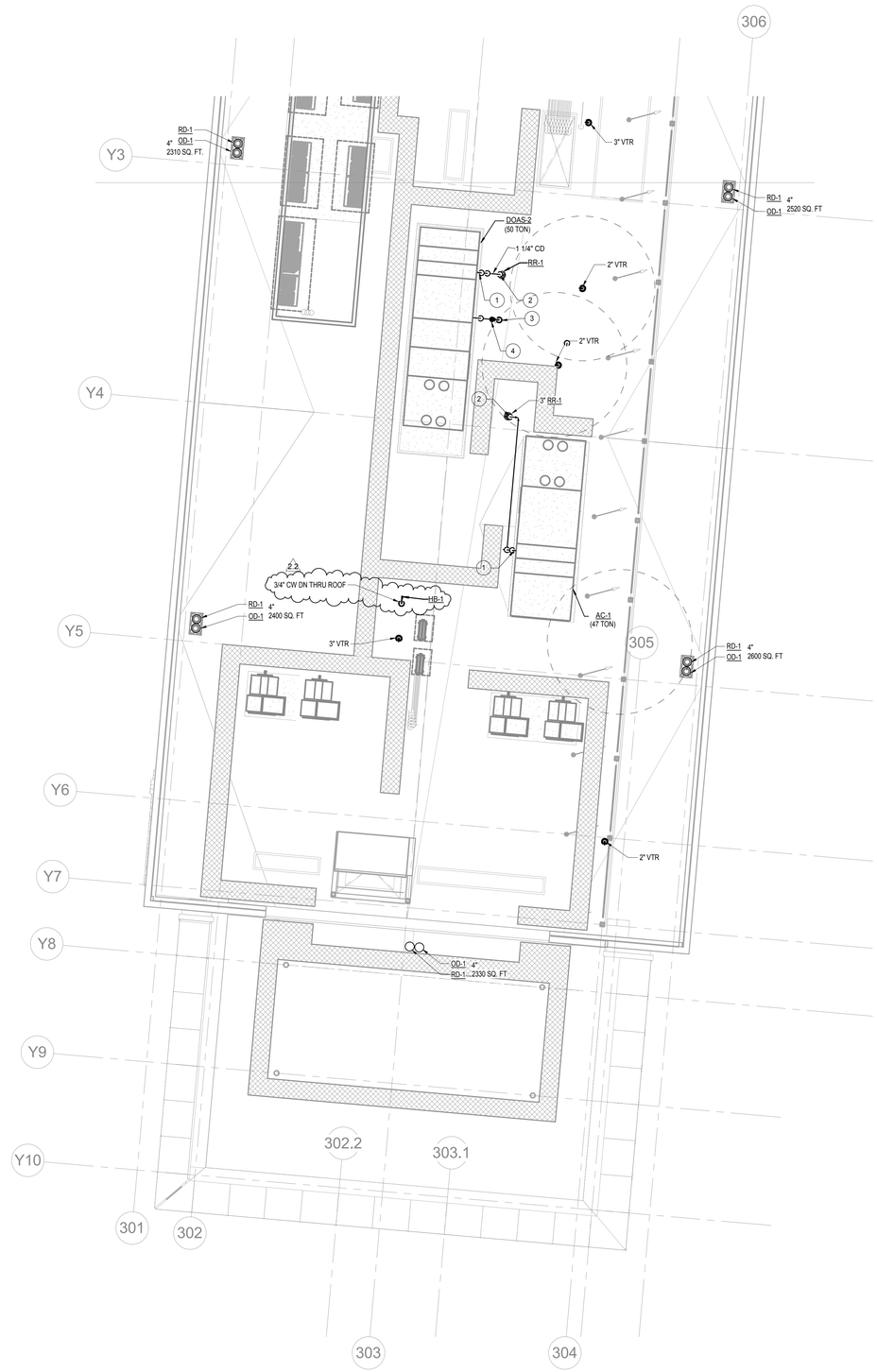

SHEET NOTES

1. FOR CONDENSATE TRAP DETAIL, SEE 1/2P-501.
2. ROUTE 1-1/4" CD DOWN TO ROOF RECEPTOR. DISCHARGE CD TO ROOF RECEPTOR WITH A 2" AIR GAP.
3. 1" MPG DOWN THRU ROOF.
4. GAS PRV SHALL BE RATED @ 5 PSI TO 7" W.C.
5. 3/4" CW DOWN THRU ROOF.

GENERAL NOTES

1. PLUMBING VENTS SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM AIR INTAKE.

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING FLOOR PLAN - ROOF LEVEL - PART B

Sheet No.

2P-153

1 PLUMBING FLOOR PLAN - ROOF LEVEL - PART B

1/8" = 1'-0"

N

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

10/2/2017 12:48:48 PM
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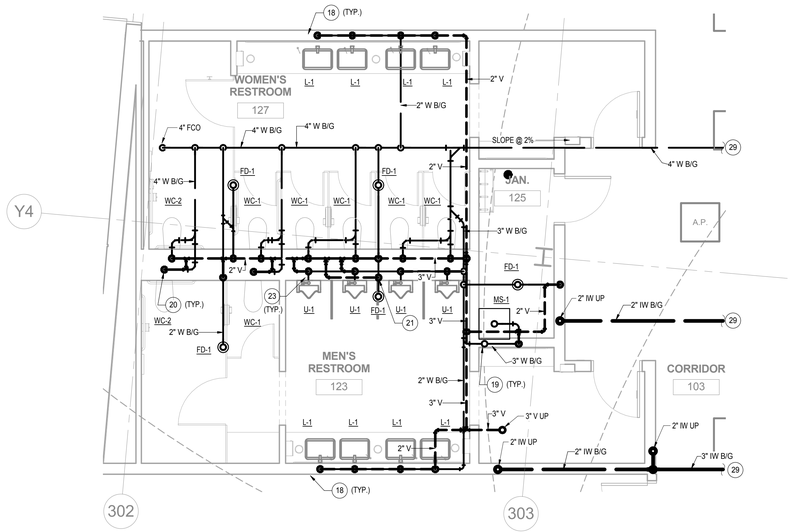

1	**PLUMBING ENLARGED FLOOR PLAN - LEVEL 01 - RESTROOMS 107 & 109 - SOUTH - DWV**	N
1/2P-113	1/4" = 1'-0"	

2	**PLUMBING ENLARGED FLOOR PLAN - LEVEL 01 - RESTROOMS 107 & 109 - SOUTH - WATER**	N
1/2P-113	1/4" = 1'-0"	

3	**PLUMBING ENLARGED FLOOR PLAN - LEVEL 01- MAIN UTILITY 122 - DWV**	N
1/2P-112	1/4" = 1'-0"	

4	**PLUMBING ENLARGED FLOOR PLAN - LEVEL 01 - MAIN UTILITY 122 - WATER**	N
1/2P-112	1/4" = 1'-0"	

SHEET NOTES

1. 3" HW AND CW DOWN TO WATER HEATERS.
2. 1-1/2" G SUPPLY TO WATER HEATERS. FOR GAS CONNECTION DETAIL, SEE 2P-501.
3. FOR ROUTING OF THE VENT, SEE MECHANICAL PLANS.
4. 3/4" CW DOWN TO BACKFLOW PREVENTOR.
5. 2" WASTE UP TO MEZZANINE.
6. 2" WASTE DOWN, 2" VENT UP.
7. FOR WATER HEATER DETAIL, SEE 3/2P-502 AND 6/2P-502.
8. 3/4" MAKE-UP WATER SUPPLY TO DI SKID.
9. 1-1/2" DI, 1-1/2"DIR, (3) 1" DI AND (3) DIR PIPING TO DI SKID.
10. 1/2" CW DOWN TO TRAP PRIMER VALVE.
11. 3" VAC DOWN TO VACUUM PUMP SYSTEM.
12. 1" LA DOWN TO AIR COMPRESSOR SYSTEM.
13. 1" CO2 DOWN TO CO2 SYSTEM.
14. 3" VACUUM EXHAUST DOWN TO VACUUM SYSTEM.
15. 3" VACUUM EXHAUST THRU WALL.
16. PROVIDE TEMPERATURE AND RELIEF VALVE.
17. ROUTE TEMPERATURE AND RELIEF VALVE PIPING TO FLOOR SINK WITH 2" AIR GAP.
18. 2" WASTE DOWN, 2" VENT UP.
19. 3" WASTE DOWN, 2" VENT UP.
20. 4" WASTE DOWN, 2" VENT UP.
21. 2" VENT UP IN WALL.
22. 2" CW DOWN IN WALL TO 2" HEADER IN WALL.
23. PROVIDE 2" WALL CLEANOUT AT URINAL.
24. PROVIDE 1/2" CW DOWN IN WALL TO TRAP PRIMER.
25. PROVIDE TRAP PRIMER WITH ACCESS, SEE DETAIL 9/2P-501.
26. PROVIDE WATER HAMMER ARRESTOR WITH ACCESS, SEE DETAIL 7/2P-501.
27. 3/4" CW & HW DOWN IN WALL TO LAVATORY SINK.
28. 3/4" CW & HW DOWN IN WALL TO MOP SINK.
29. FOR CONTINUATION SEE SHEET 2P-113.
30. PROVIDE BALANCING VALVE WITH ACCESS. CONTRACTOR TO SET TO MINIMUM FLOW REQUIREMENTS.
31. PROVIDE SHUT-OFF VALVES WITH ACCESS.
32. 4" CW, 3" HW, 1-1/2" HWR, 3" VAC, 1" LA , 1" CO2, (3) 1-1/2" DI, (3) 1-1/2" DIR AND 3/4" MPG UP TO MEZZANINE LEVEL ABOVE.
33. GAS PRV SHALL BE RATED @ 5 PSI TO 7" W.C. FOR 925 CFH, FOR PRV DETAIL SEE 8/2P-502. ROUTE FULL SIZE GAS VENT OUT TO EXTERIOR BUILDING SIDE WALL.
34. FOR PRESSURE REGULATOR ASEMBLY SEE DETAIL 2/2P-503.
35. 3/4" CW AND HW DOWN WALL TO SINK.

GENERAL NOTES

1. XXX

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLANS - LEVEL 01

Sheet No.
2P-411

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

11/7/2017 9:33:46 AM
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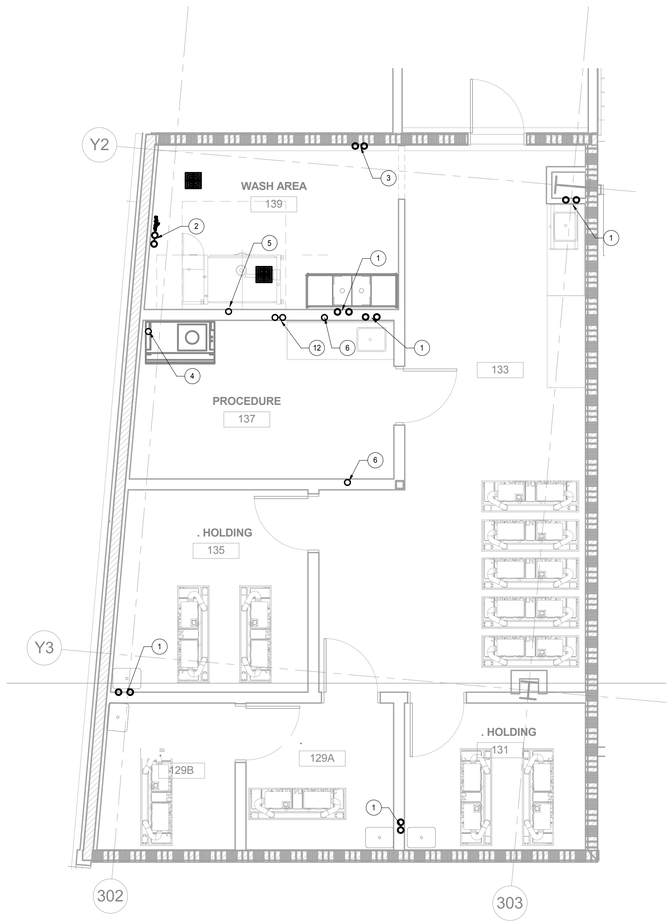
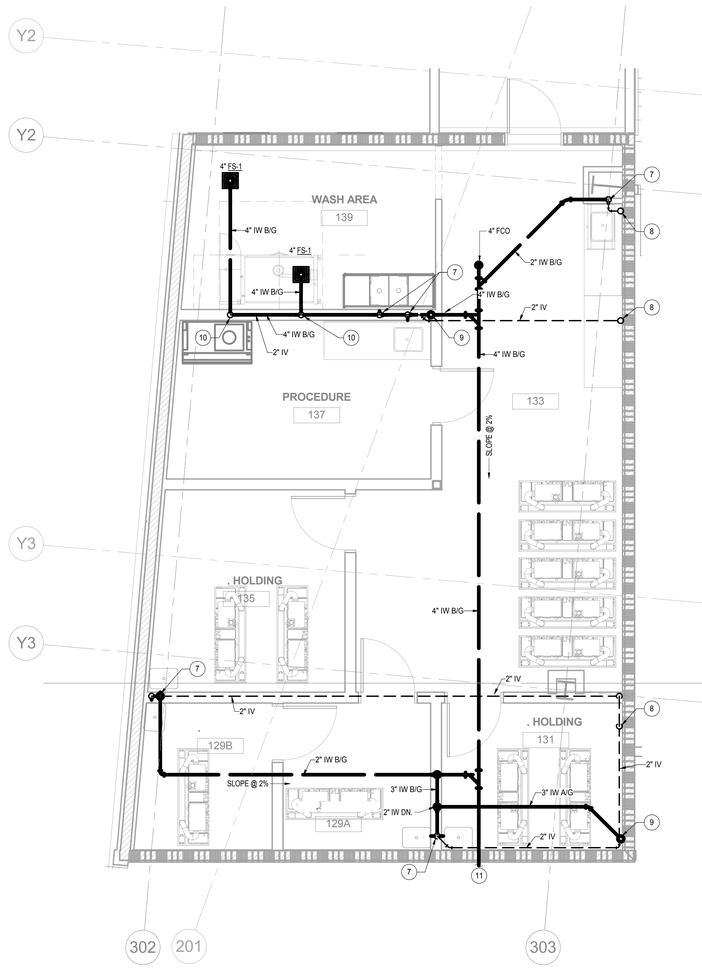


2 PLUMBING ENLARGED FLOOR PLAN - LEVEL 01 - - WATER

1/2P-113 1/4" = 1'-0"

SHEET NOTES

1. 3/4" CW AND HW UP TO MEZZANINE LEVEL. ROUTE DOWN WALL TO LAB FIXTURE. 2.3
2. 1" CW AND HW FROM MEZZANINE LEVEL. ROUTE PIPING DOWN WALL TO BACKFLOW PREVENTORS AND ROUTE TO GLASS WASHER UTILITY CONNECTION. PROVIDE WATER HAMMER ARRESTORS AT INLET SUPPLIES.
3. 3/4" CW AND HW FROM MEZZANINE LEVEL. RUN PIPING DOWN TIGHT TO WALL AND CONNECT TO HOSE BIBB.
4. 3/4" VAC FROM MEZZANINE LEVEL. ROUTE TO BIO-SAFETY CABINET UTILITY CONNECTION.
5. 1/2" LA FROM MEZZANINE LEVEL. ROUTE TO LAB EQUIPMENT. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
6. 1/2" CO2 FROM MEZZANINE LEVEL. ROUTE TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
7. 2" IW DOWN, 2" IV UP.
8. 2" IV UP TO FLOOR ABOVE.
9. 2" IW UP TO FLOOR ABOVE.
10. 4" IW DOWN, 2" IV UP.
11. FOR CONTINUATION SEE SHEET 2P-113.
12. 1-1/2" DI UP AND DOWN TO LAB EQUIPMENT.



1 PLUMBING ENLARGED FLOOR PLAN - LEVEL 01 - - DWV

1/2P-113 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO LAB FURNISHING PLANS FOR ALL LAB FIXTURES AND EQUIPMENT UTILITY CONNECTIONS.

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLAN - LEVEL 01

Sheet No.
2P-412

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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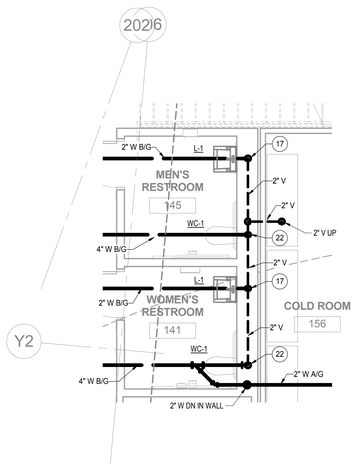
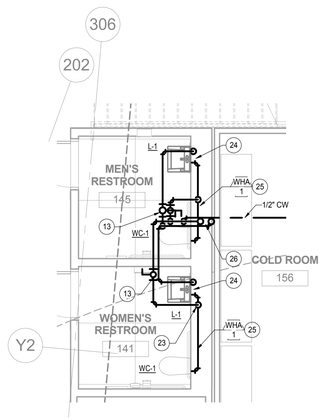


3 PLUMBING ENLARGED FLOOR PLAN - LEVEL 01 - RESTROOMS - DWV

N

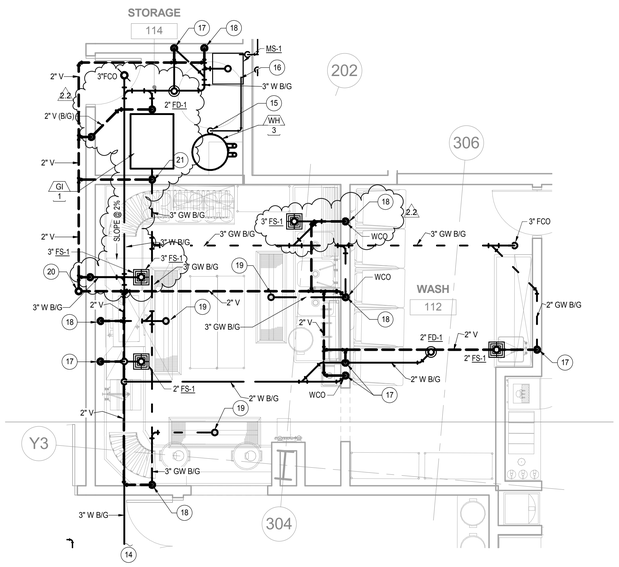
1/2P-112 | 1/4" = 1'-0"



4 PLUMBING ENLARGED FLOOR PLAN - LEVEL 01 - RESTROOMS - WATER

N

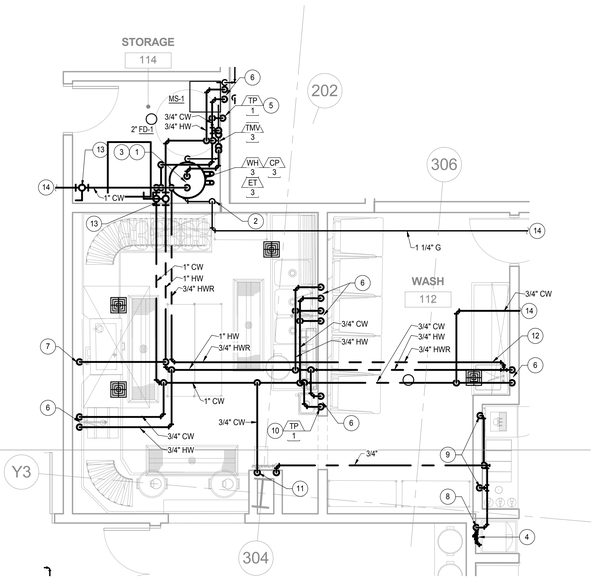
1/2P-112 | 1/4" = 1'-0"



1 PLUMBING ENLARGED FLOOR PLAN - LEVEL 01- WASH 112 & STORAGE 114 - DMV

N

1/2P-113 | 1/4" = 1'-0"



2 PLUMBING ENLARGED FLOOR PLAN - LEVEL 01 - WASH 112 & STORAGE 114 - WATER

N

1/2P-113 | 1/4" = 1'-0"

SHEET NOTES

1. 1" HW AND CW DOWN TO WATER HEATERS.
2. 1-1/4" G SUPPLY TO WATER HEATERS. FOR GAS CONNECTION DETAIL, SEE 2P-501.
3. FOR ROUTING OF THE VENT, SEE MECHANICAL PLANS.
4. 1/2" CW DOWN TO BACKFLOW PREVENTOR.
5. 1/2" CW DOWN TO TRAP PRIMER VALVE.
6. 3/4" HW AND CW DOWN WALL TO FIXTURE.
7. 3/4" HW DOWN IN WALL. PROVIDE WATER HAMMER ARRESTOR @ HW SUPPLY CONNECTION.
8. 1/2" FILTERED WATER DOWN TO BACKFLOW PREVENTOR.
9. 1/2" FILTERED WATER DOWN WALL.
10. PROVIDE TRAP PRIMER WITH ACCESS PANEL. SEE DETAIL 9/2P-501.
11. 3/4" CW DOWN TO WATER FILTER SYSTEM.
12. PROVIDE BALANCING VALVE WITH ACCESS PANEL. CONTRACTOR TO SET TO MINIMUM FLOW REQUIREMENTS.
13. PROVIDE SHUT-OFF VALVE WITH ACCESS.
14. FOR CONTINUATION SEE SHEET 2P-113.
15. PROVIDE TEMPERATURE AND RELIEF VALVE.
16. ROUTE TEMPERATURE AND RELIEF VALVE PIPING DOWN TO MOP SINK WITH 2" AIR GAP.
17. 2" WASTE DOWN, 2" VENT UP.
18. 3" WASTE DOWN, 2" VENT UP.
19. 3" WASTE UP TO FLOOR TROUGH.
20. 3" VENT UP TO FLOOR ABOVE.
21. 2" VENT UP FROM BELOW SLAB.
22. 4" WASTE DOWN, 2" VENT UP.
23. 1-1/2" CW DOWN TO 1-1/2" HEADER.
24. 3/4" CW AND HW TO LAVATORY SINK.
25. PROVIDE WATER HAMMER ARRESTOR WITH ACCESS. SEE DETAIL 7/2P-501.
26. 1-1/2" CW AND 3/4" HW UP.

GENERAL NOTES

1. COORDINATE WITH KITCHEN DRAWINGS FOR:
   - A. WATER CONNECTION SIZES.
   - B. ROUTING OF INDIRECT WASTE PIPING.
   - C. NATURAL GAS PIPE CONNECTION SIZES.
   - D. SPECIALTY EQUIPMENT CONNECTIONS.
   - E. WATER FILTER LOCATIONS

   TO AND FROM KITCHEN SUPPLIED FIXTURES AND EQUIPMENT.

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING ENLARGED FLOOR PLAN - LEVEL 01

Sheet No.

2P-413

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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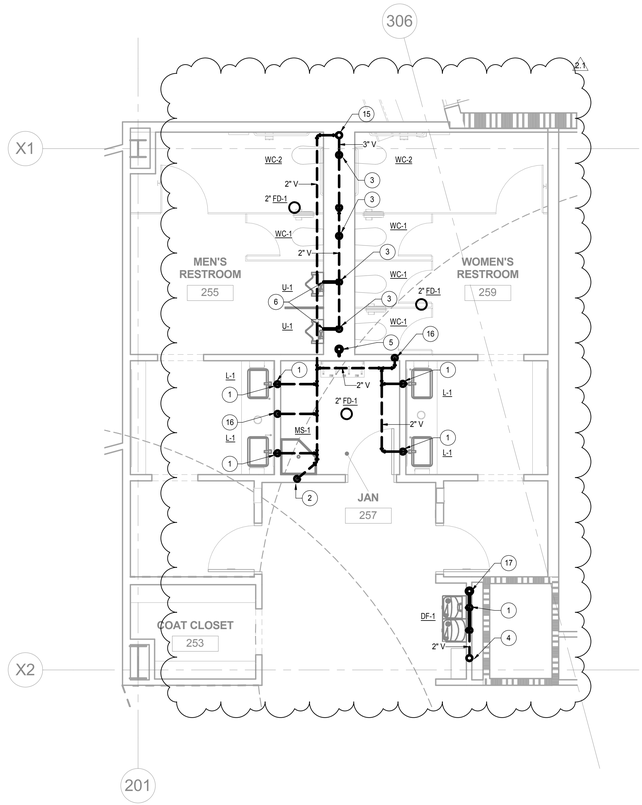
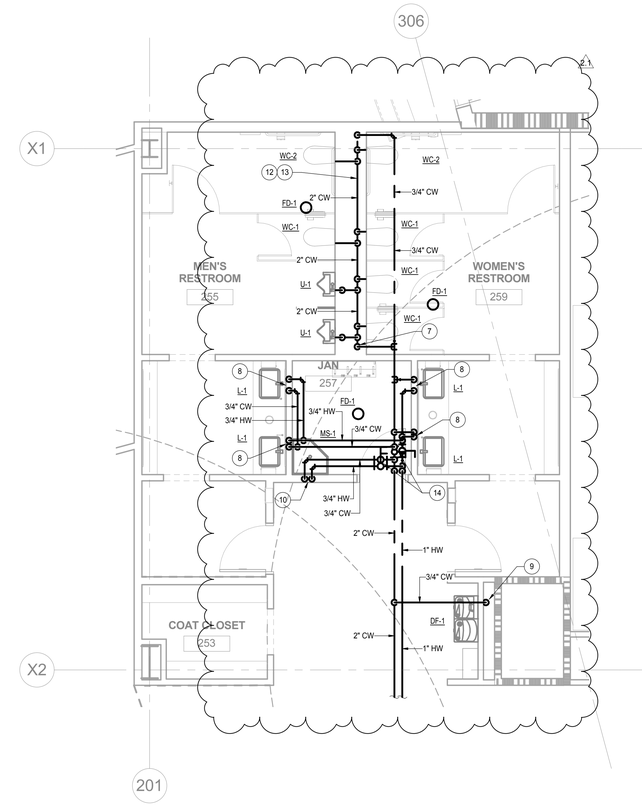


1 PLUMBING ENLARGED FLOOR PLAN - LEVEL 02 - RESTROOMS & NORTH - DWV

1/2P-122 | 1/4" = 1'-0"



2 PLUMBING ENLARGED FLOOR PLAN - LEVEL 02 - RESTROOMS & NORTH - WATER

1/2P-122 | 1/4" = 1'-0"

SHEET NOTES

1. 2" WASTE DOWN, 2" VENT UP.
2. 3" WASTE DOWN, 2" VENT UP.
3. 4" WASTE DOWN, 2" VENT UP.
4. 2" VENT UP IN WALL.
5. 4" WASTE UP & DOWN.
6. PROVIDE 2" WALL CLEANOUT AT URINAL.
7. 2" CW DOWN IN WALL TO 2" HEADER IN WALL.
8. 3/4" CW & HW DOWN IN WALL TO LAVATORY SINK.
9. 3/4" CW & HW DOWN IN WALL TO MOP SINK.
10. 3/4" CW DOWN IN WALL TO DRINKING FOUNTAIN.
11. PROVIDE 1/2" CW DOWN IN WALL TO TRAP PRIMER.
12. PROVIDE TRAP PRIMER WITH ACCESS, SEE DETAIL 9/2P-501.
13. PROVIDE WATER HAMMER ARRESTOR WITH ACCESS, SEE DETAIL 7/2P-501.
14. PROVIDE SHUT-OFF VALVES WITH ACCESS.
15. 3" VENT UP TO FLOOR ABOVE.
16. 2" VENT DOWN IN WALL.
17. 2" WASTE UP AND DOWN.

GENERAL NOTES

1. XXX

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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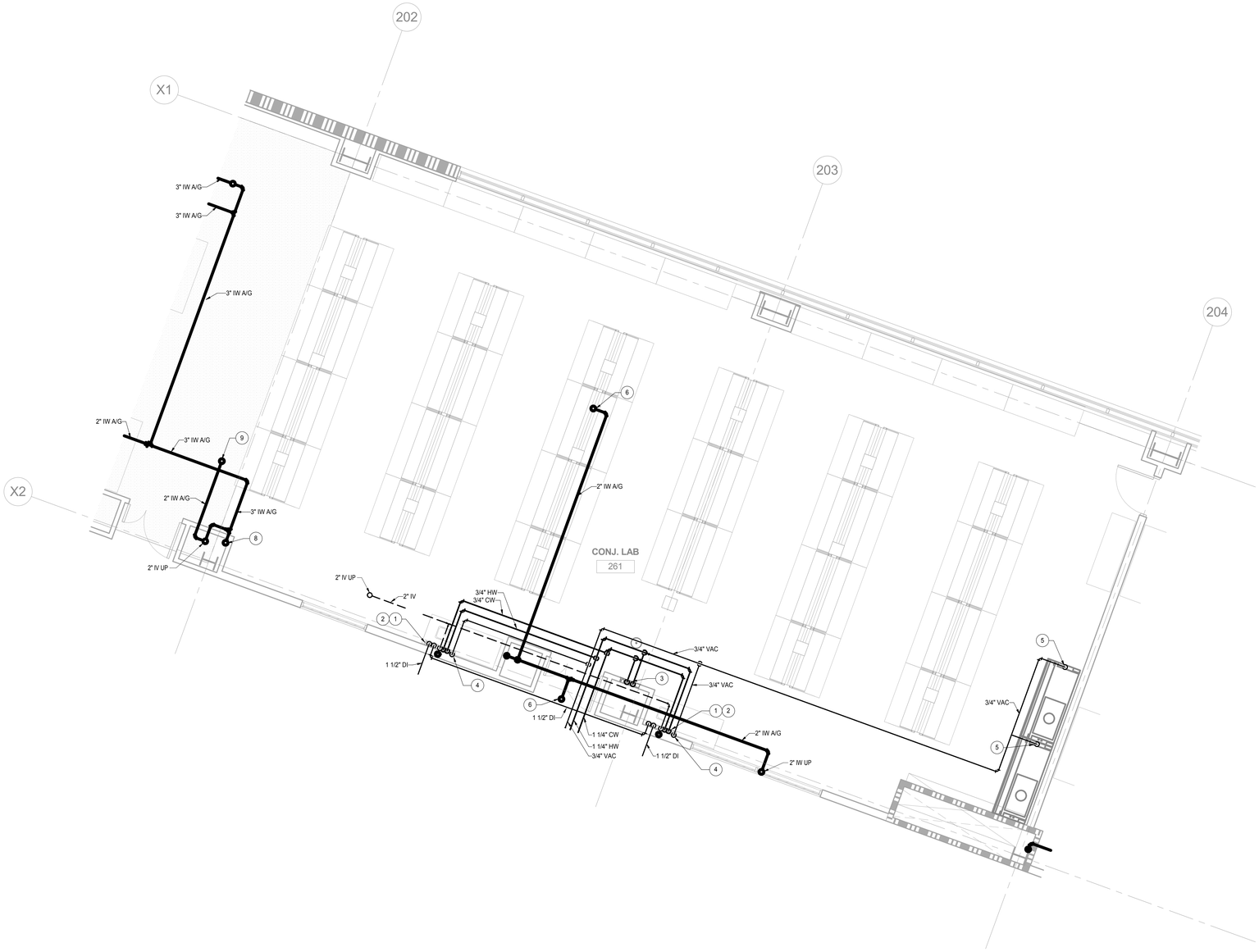
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLANS - LEVEL 02

Sheet No.
2P-421

10/2/2017 12:49:09 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 3/4" VAC DOWN IN UMBILICAL TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT. 2.2
5. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.
6. 2" IW UP TO LAB SINK.
7. 3" IW DOWN TO FLOOR BELOW.
8. 2" IW UP AND 3" IW DOWN TO FLOOR BELOW.

GENERAL NOTES

1. REFER TO LAB FURNISHING PLANS FOR ALL LAB FIXTURES & EQUIPMENT UTILITY CONNECTIONS.

1 **PLUMBING ENLARGED FLOOR PLAN - LAB 261 - LEVEL 02**

1/2P-122 | 1/4" = 1'-0"

N

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

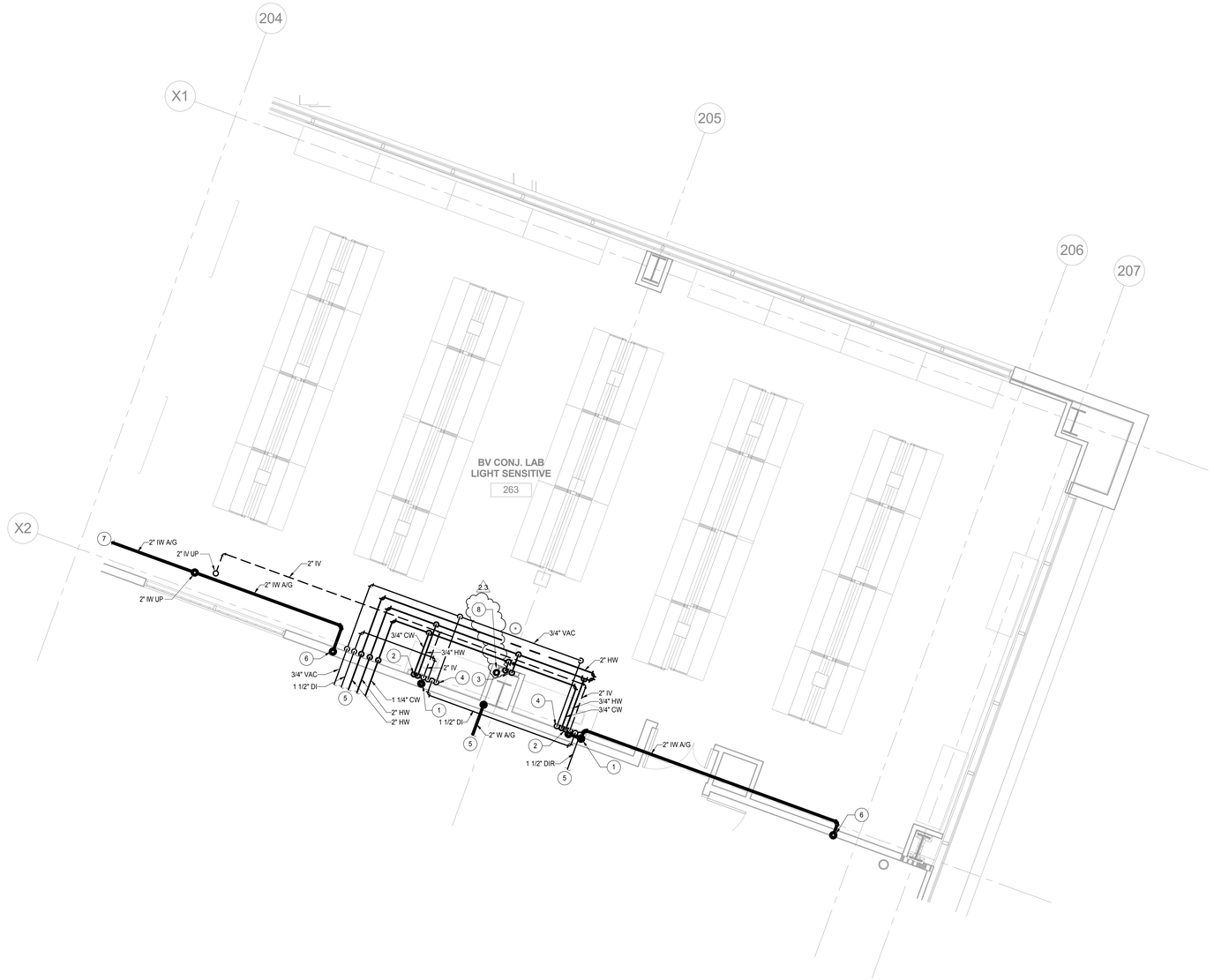
CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLAN - LEVEL 02

Sheet No.
2P-422

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

11/17/2017 8:33:49 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 3/4" VAC DOWN IN UMBILICAL TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
5. FOR CONTINUATION SEE SHEET 2P-122.
6. 2" IW UP TO LAB SINK.
7. FOR CONTINUATION SEE SHEET 2P-422.
8. 2" VENT UP AND DOWN. 2.3

GENERAL NOTES

1. REFER TO LAB FURNISHING PLANS FOR ALL LAB FIXTURES & EQUIPMENT UTILITY CONNECTIONS.

1 **PLUMBING ENLARGED FLOOR PLAN - LAB 263 - LEVEL 02**

1/2P-122 | 1/4" = 1'-0"

N

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING ENLARGED FLOOR PLAN - LEVEL 02

Sheet No.

2P-423

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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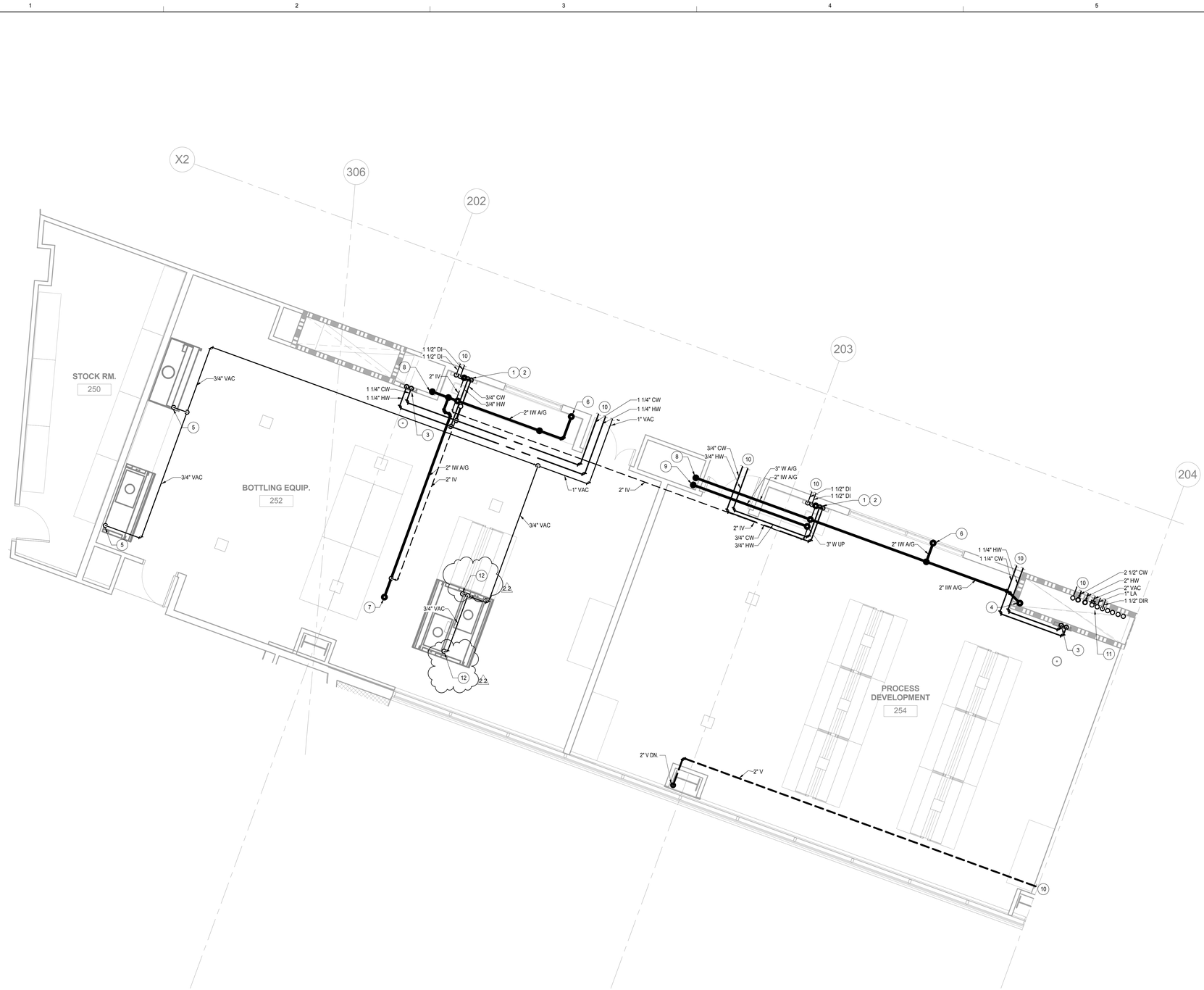

SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 2" IW UP TO FLOOR ABOVE. 2.2
5. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.
6. 2" IW UP TO LAB SINK.
7. 2" IW UP TO FLOOR SINK ABOVE.
8. 2" IW DOWN TO FLOOR BELOW.
9. 3" WASTE DOWN TO FLOOR BELOW.
10. FOR CONTINUATION SEE SHEET 2P-122.
11. 3" CW, 3" HW, 3" VAC, 1" CO2, 1" LA, 1-1/2" DI AND DIR RISERS. 2.2
12. 3/4" VAC DOWN TO CEILING PANEL UTILITY CONNECTION W/ SHUT-OFF VALVE. PROVIDE SUPPLY HOSE W/ QUICK DISCONNECT FOR EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.

GENERAL NOTES

1. REFER TO LAB FURNISHING PLANS FOR ALL LAB FIXTURES & EQUIPMENT UTILITY CONNECTIONS.

1 **PLUMBING ENLARGED FLOOR PLAN - RM 250, 252 & 254 - LEVEL 02**

1/2P-122 | 1/4" = 1'-0"

N

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLAN - LEVEL 02

Sheet No.
2P-424

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

11/17/2017 9:33:53 AM
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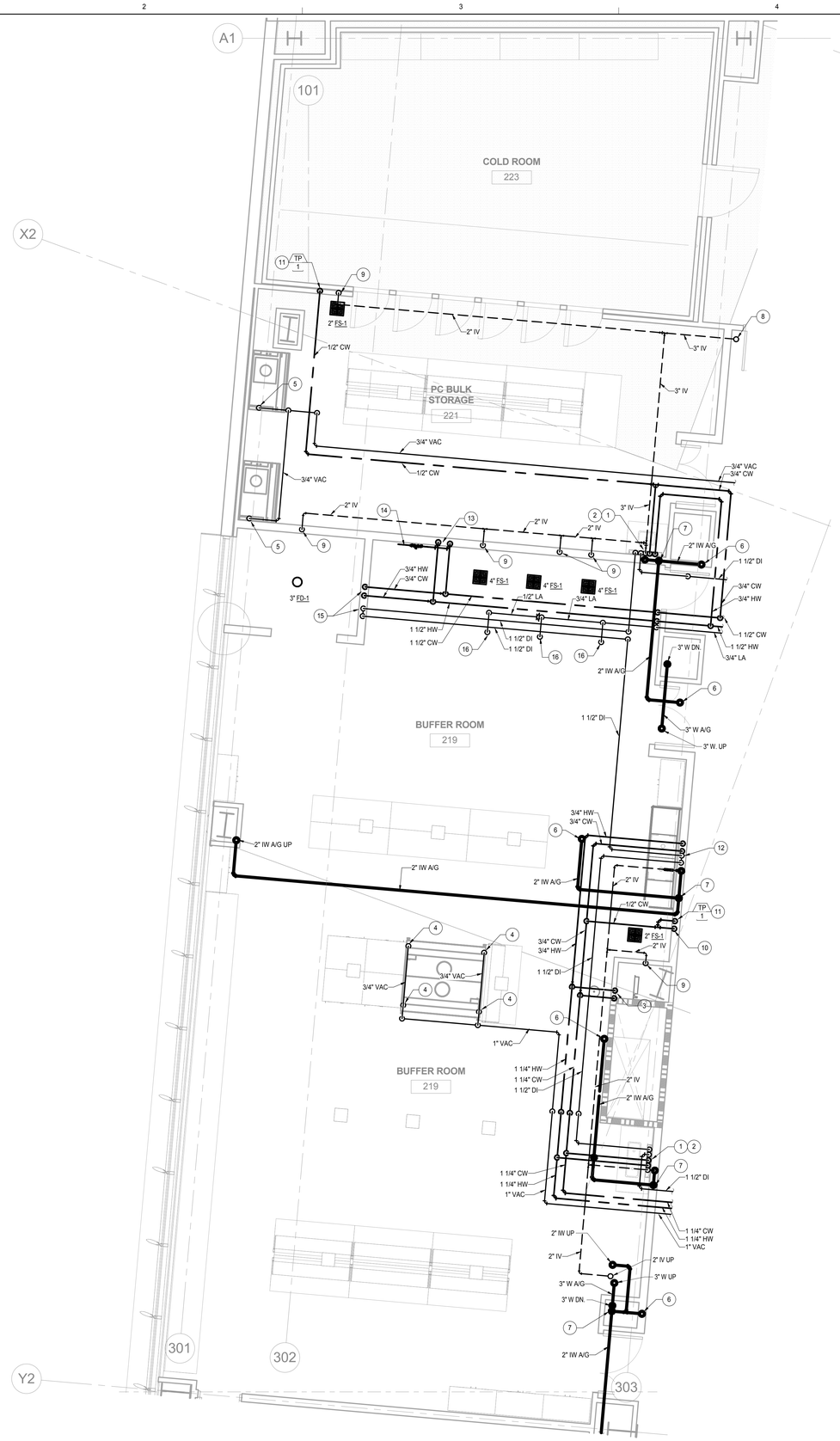

SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 3/4" VAC DOWN TO FUME HOOD UTILITY CONNECTION.
5. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.
6. 2" IW UP TO LAB SINK.
7. 2" IW DOWN TO FLOOR BELOW.
8. 3" IV UP TO FLOOR ABOVE.
9. 2" IV DOWN.
10. 1/2" CW DOWN TO ICE MAKER BOX.
11. 1/2" CW DOWN IN WALL TO TRAP PRIMER. PROVIDE ACCESS PANEL. SEE DETAIL 9/2P-501.
12. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN WALL TO LAB FIXTURE.
13. 1-1/2" CW & 1-1/2" HW DOWN TO BACKFLOW PREVENTOR.
14. 1-1/2" CW AND 1-1/2" HW SUPPLY TO AUTOCLAVE. PROVIDE WATER HAMMER ARRESTORS AT INLET SUPPLIES FOR GLASSWARE WASHER AND AUTOCLAVES. (2.3)
15. 3/4" CW, HW, 1-1/2" DI 1ND 1-1/2" DIR DOWN IN WALL TO CAN WASH SUPPLY. PROVIDE LECHLER SERIES 5MI "MINI SPINNER" ROTATING CLEANING NOZZLE.
16. 1/2" LA DOWN TO AUTOCLAVE CONNECTION.

GENERAL NOTES

1. REFER TO LAB FURNISHING PLANS FOR ALL LAB FIXTURES & EQUIPMENT UTILITY CONNECTIONS.

1 **PLUMBING ENLARGED FLOOR PLAN - RM 219, 221 & 223 - LEVEL 02**

1/2P-122 | 1/4" = 1'-0"

N

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLAN - LEVEL 02

Sheet No.
2P-425

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 12:48:46 PM
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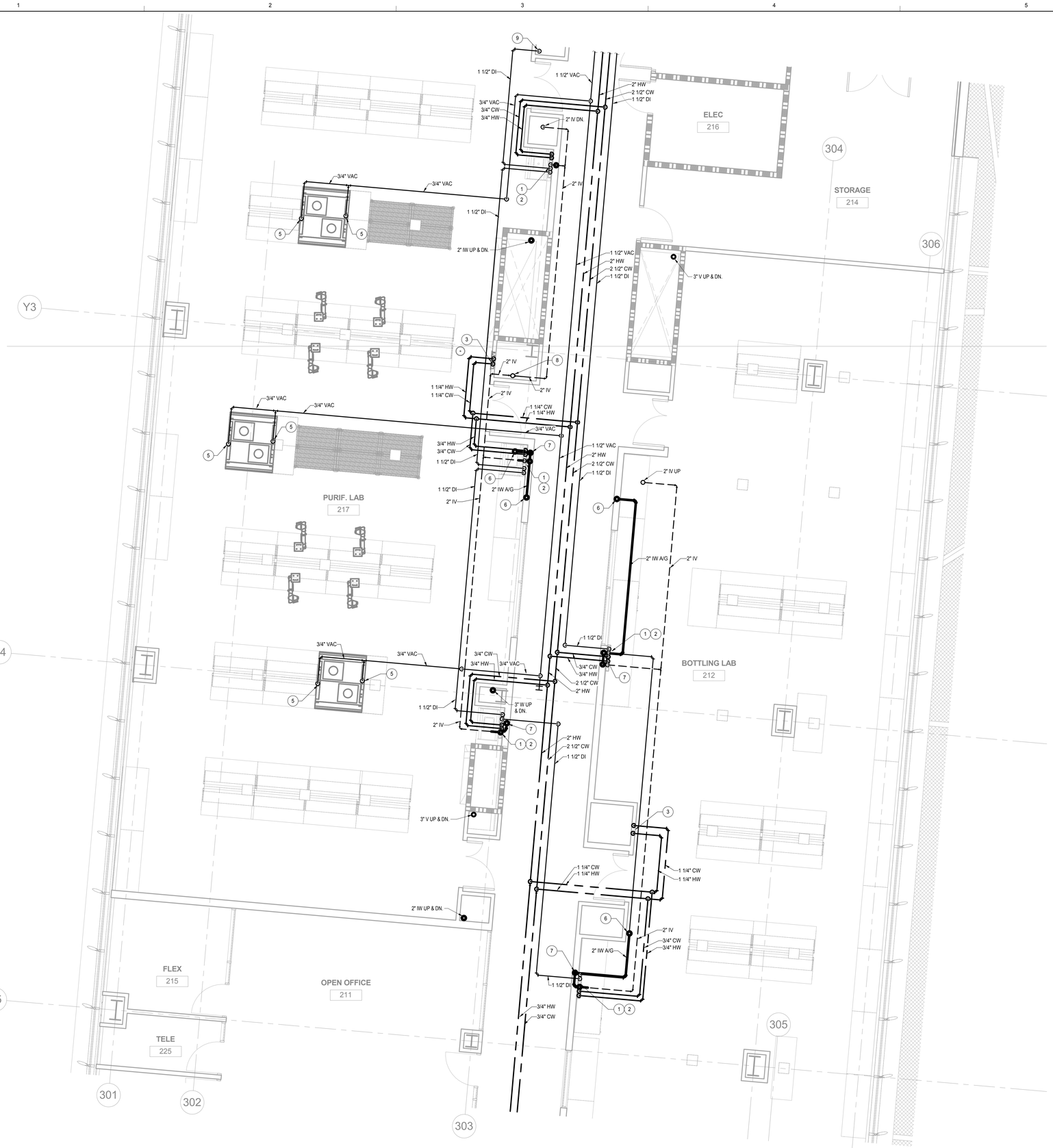

SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 3/4" VAC DOWN IN UMBILICAL TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
5. 3/4" VAC DOWN TO CEILING PANEL UTILITY CONNECTION W/ SHUT-OFF VALVE. PROVIDE SUPPLY HOSE W/ QUICK DISCONNECT FOR EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN. 2.2
6. 2" IW UP TO LAB SINK.
7. 2" IW DOWN TO FLOOR BELOW.
8. 3" IV UP TO FLOOR ABOVE.
9. 1-1/2" DI DOWN TO FLOOR BELOW.

GENERAL NOTES

1. REFER TO LAB FURNISHING PLANS FOR ALL LAB FIXTURES & EQUIPMENT UTILITY CONNECTIONS.

1 **PLUMBING ENLARGED FLOOR PLAN - LAB 212 & 217 - LEVEL 02**

1/2P-122 | 1/4" = 1'-0"

N

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLAN - LEVEL 02

Sheet No.
2P-426

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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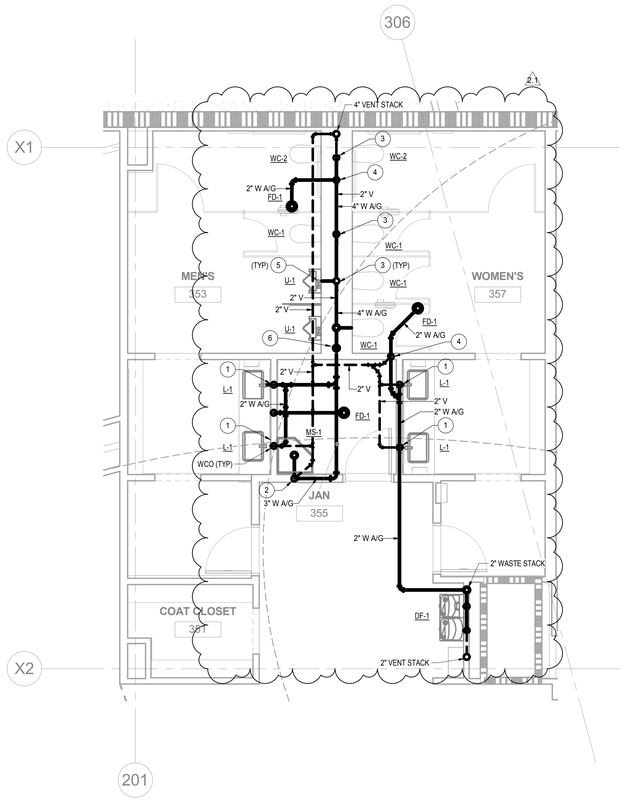
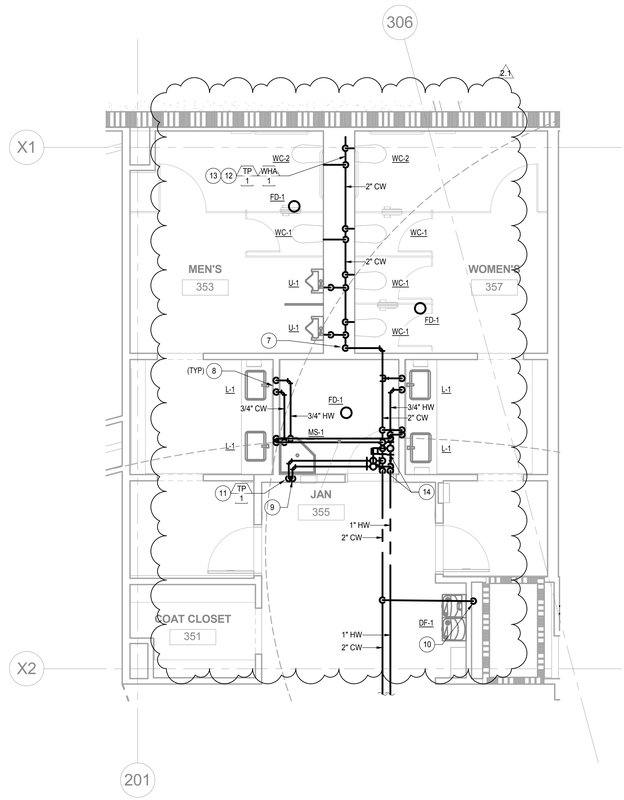
8/29/2017 11:44:06 AM



1 PLUMBING ENLARGED FLOOR PLAN - LEVEL 03 - RESTROOMS & NORTH - DWV

1/2P-132 1/4" = 1'-0"



2 PLUMBING ENLARGED FLOOR PLAN - LEVEL 03 - RESTROOMS & NORTH - WATER

1/2P-132 1/4" = 1'-0"

SHEET NOTES

1. 2" WASTE DOWN, 2" VENT UP.
2. 3" WASTE DOWN, 2" VENT UP.
3. 4" WASTE DOWN, 2" VENT UP.
4. 2" VENT UP IN WALL.
5. PROVIDE 2" WALL CLEANOUT AT URINAL.
6. 4" WASTE DOWN TO FLOOR BELOW.
7. 2" CW DOWN IN WALL TO 2" HEADER IN WALL.
8. 3/4" CW & HW DOWN IN WALL TO LAVATORY SINK.
9. 3/4" CW & HW DOWN IN WALL TO MOP SINK.
10. 3/4" CW DOWN IN WALL TO DRINKING FOUNTAIN.
11. PROVIDE 1/2" CW DOWN IN WALL TO TRAP PRIMER.
12. PROVIDE TRAP PRIMER WITH ACCESS, SEE DETAIL 9/2P-501.
13. PROVIDE WATER HAMMER ARRESTOR WITH ACCESS, SEE DETAIL 7/2P-501.
14. PROVIDE SHUT-OFF VALVES WITH ACCESS.

GENERAL NOTES

1. XXX

GENE THEORY

CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title

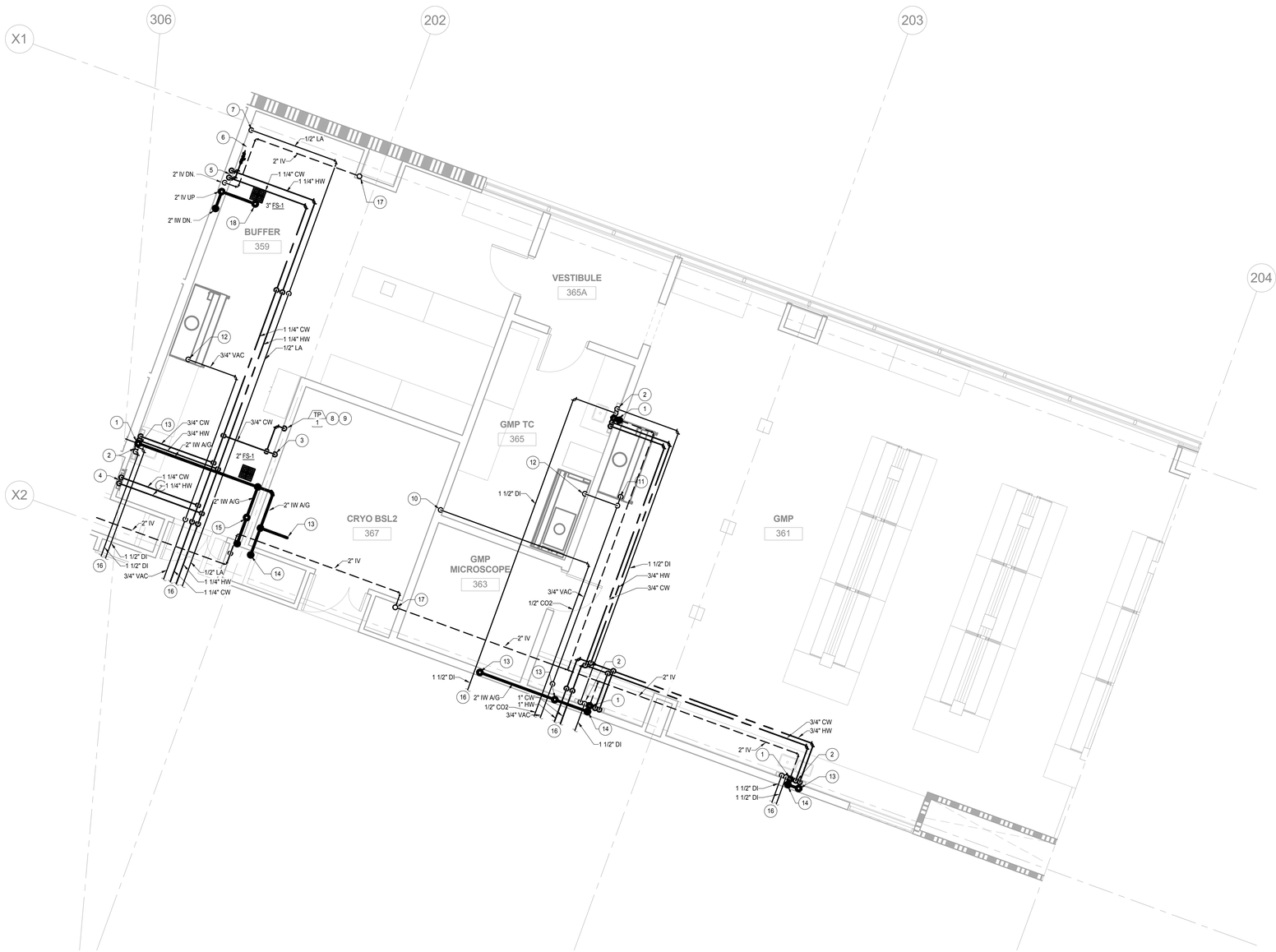
PLUMBING ENLARGED FLOOR PLAN - LEVEL 03

Sheet No.

2P-431

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

11/17/2017 9:33:55 AM
ALL IDEAS, DESIGNS, AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 3/4" CW DOWN IN WALL TO ICE MAKER BOX.
4. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
5. 1-1/4" CW & 1-1/4" HW DOWN TO BACKFLOW PREVENTORS. 2.3
6. 1-1/4" CW AND 1-1/4" HW TO SUPPLY AUTOCLAVE. PROVIDE WATER HAMMER ARRESTOR AT INLET SUPPLIES.
7. 1/2"LA TO SUPPLY AUTOCLAVE.
8. 1/2" CW DOWN IN WALL TO TRAP PRIMER.
9. PROVIDE TRAP PRIMER WITH ACCESS PANEL. SEE DETAIL 9/2P-501.
10. 1/2" CO2 DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 48" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF INCUBATOR W/ LAB FURNISHING PLAN.
11. 3/4" VAC DOWN TO FUME HOOD UTILITY CONNECTION.
12. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.
13. 2" IW UP TO LAB SINK.
14. 2" IW DOWN TO FLOOR BELOW.
15. 2" IW UP TO FLOOR SINK ABOVE.
16. FOR CONTINUATION SEE SHEET 2P-132.
17. 2" IV UP TO FLOOR ABOVE.
18. 2" IW UP TO FLOOR SINK ABOVE.

GENERAL NOTES

1. REFER TO LAB FURNISHING PLANS FOR ALL LAB FIXTURES & EQUIPMENT UTILITY CONNECTIONS.

1 **PLUMBING ENLARGED FLOOR PLAN - RM 359, 361, 363, 365, 365A, & 367 - LEVEL 03**

1/2P-132 1/4" = 1'-0"

N

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

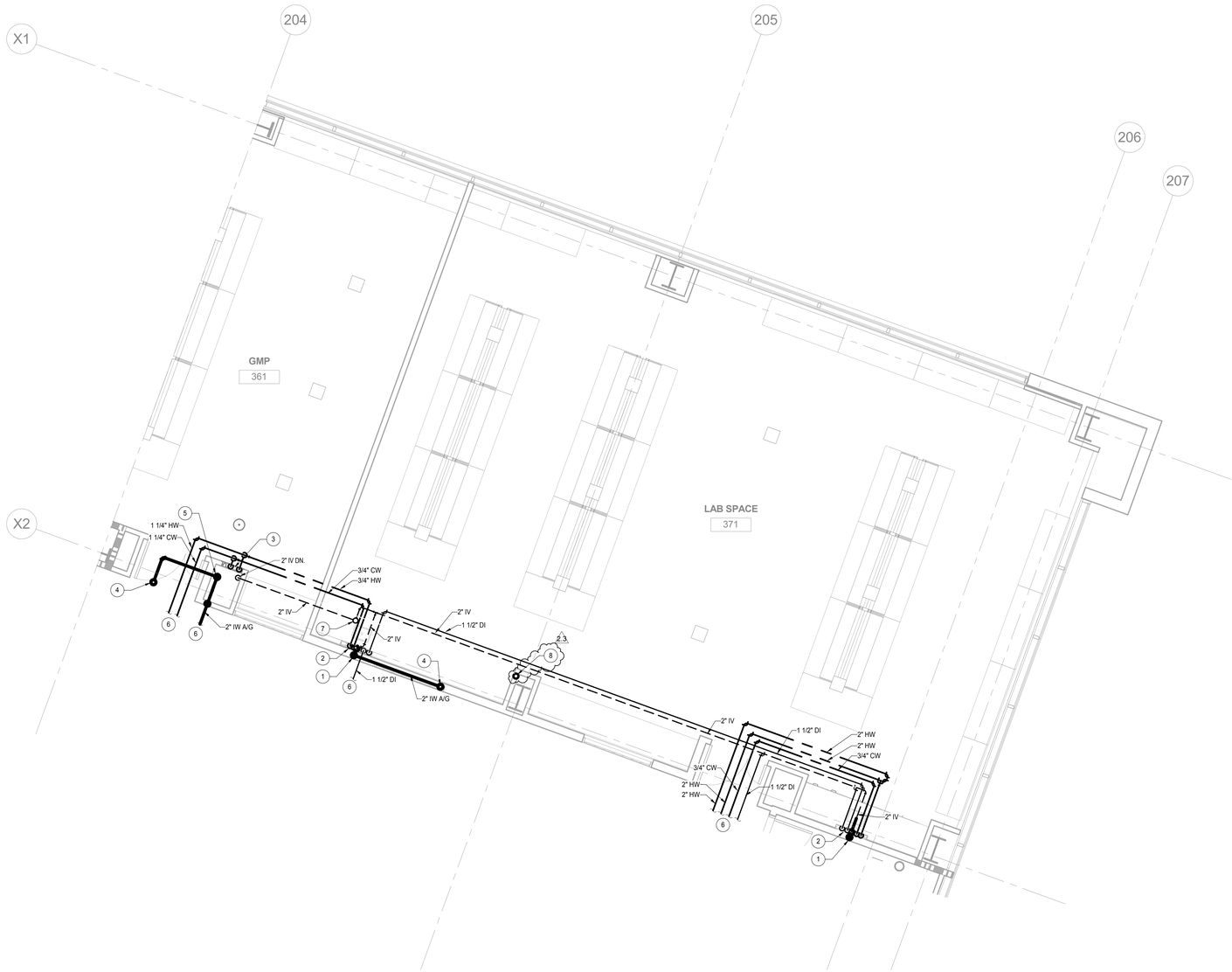
CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLAN - LEVEL 03

Sheet No.
2P-432

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 9:33:58 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 2" IW UP TO LAB SINK.
5. 2" IW DOWN TO FLOOR BELOW.
6. FOR CONTINUATION SEE SHEET 2P-132.
7. 2" IV UP TO FLOOR ABOVE.
8. 2" VENT UP AND DOWN. 2.3

GENERAL NOTES

1. REFER TO LAB FURNISHING PLANS FOR ALL LAB FIXTURES & EQUIPMENT UTILITY CONNECTIONS.

1 **PLUMBING ENLARGED FLOOR PLAN - RM 361 - LEVEL 03**

1/2P-132 | 1/4" = 1'-0"

N

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

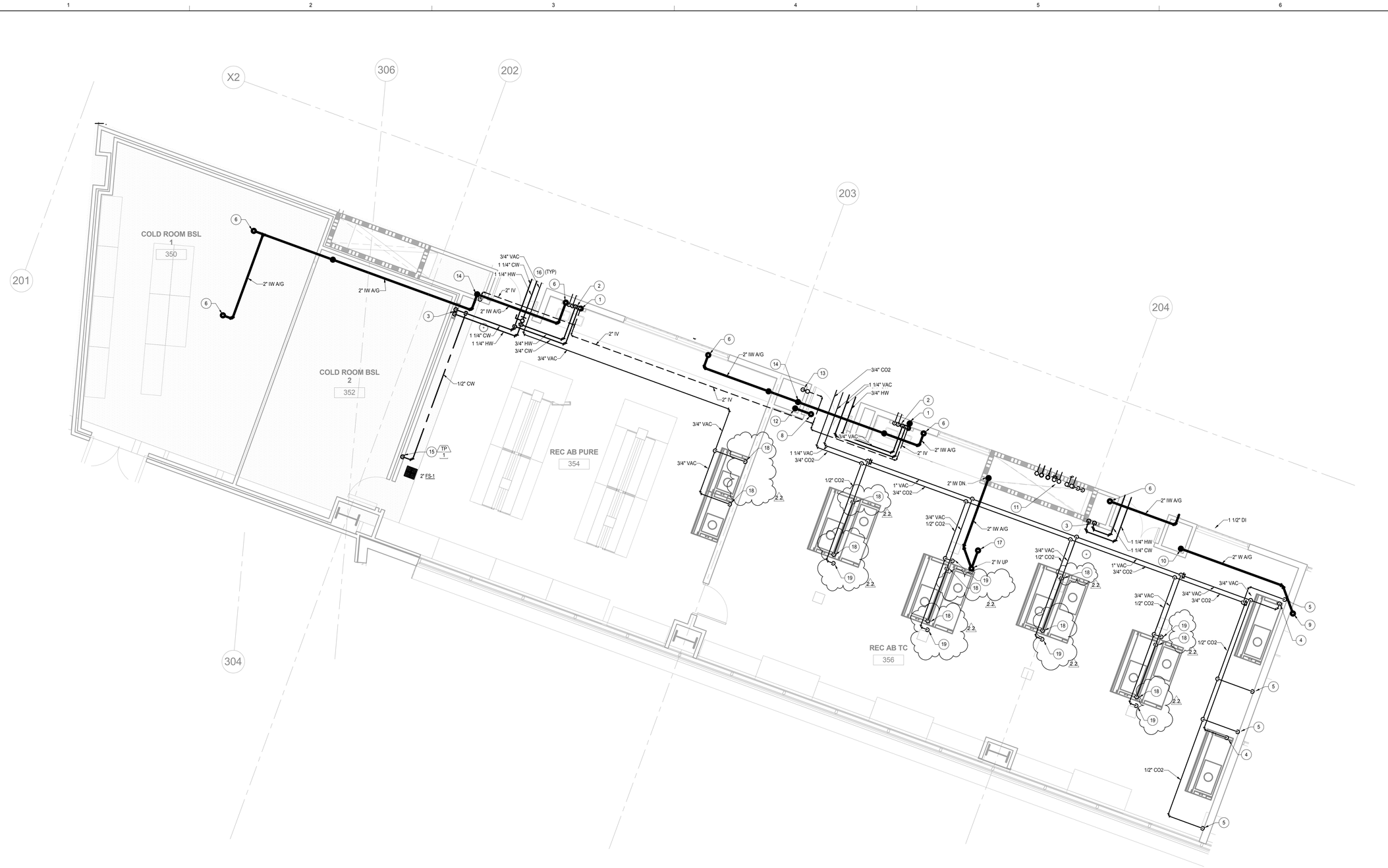
PLUMBING ENLARGED FLOOR PLAN - LEVEL 03

Sheet No.

2P-433

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 12:49:58 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



1 PLUMBING ENLARGED FLOOR PLAN - RM 350, 352, 354 & 356 - LEVEL 03

1/2P-132 | 1/4" = 1'-0"

N

SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI AND 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.
5. 1/2" CO2 DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 48" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF INCUBATOR W/ LAB FURNISHING PLAN. 2.2
6. 2" IW UP TO LAB SINK.
7. 2" IW DOWN TO FLOOR BELOW.
8. 3" WASTE UP TO FLOOR ABOVE.
9. 2" WASTE UP TO FLOOR ABOVE.
10. 2" WASTE DOWN TO FLOOR BELOW.
11. RISERS
12. 3" WASTE DOWN TO FLOOR BELOW.
13. 3" IV UP TO FLOOR ABOVE.
14. 2" IW DOWN TO FLOOR BELOW.
15. PROVIDE TRAP PRIMER WITH ACCESS PANEL. FOR DETAIL SEE 9/2P-501.
16. FOR CONTINUATION SEE SHEET 2P-132.
17. 2" IW UP TO FLOOR SINK.
18. 3/4" VAC DOWN TO CEILING PANEL UTILITY CONNECTION W/ SHUT-OFF VALVE, PROVIDE SUPPLY HOSE W/ QUICK DISCONNECT FOR EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN. 2.2
19. 1/2" CO2 DOWN TO CEILING PANEL UTILITY CONNECTION W/ SHUT-OFF VALVE, PROVIDE SUPPLY HOSE W/ QUICK DISCONNECT FOR EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION OF INCUBATOR W/ LAB FURNISHING PLAN. 2.2

GENERAL NOTES

1. REFER TO LAB FURNISHING PLANS FOR ALL LAB FIXTURES & EQUIPMENT UTILITY CONNECTIONS.

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

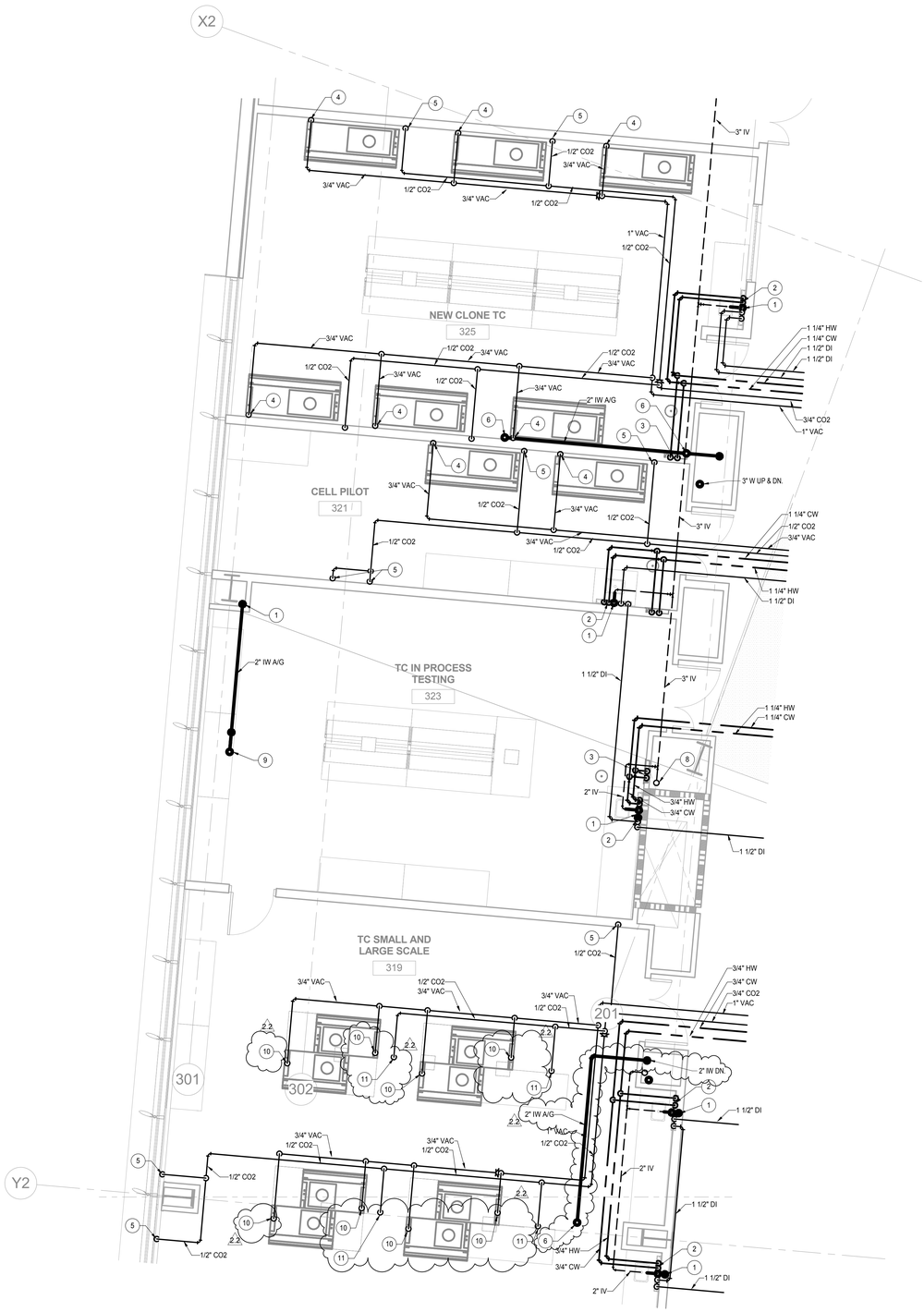
CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING ENLARGED FLOOR PLAN - LEVEL 03

Sheet No.

2P-434



SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 1-1/4 CW AND 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN. 2.2
5. 1/2" CO2 DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 48" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF INCUBATOR W/ LAB FURNISHING PLAN. 2.2
6. 2" IW UP TO LAB SINK.
7. 3" IW DOWN TO FLOOR BELOW.
8. 3" IV UP TO FLOOR ABOVE
9. 2" IW UP TO FLOOR SINK.
9. 3/4" VAC DOWN TO CEILING PANEL UTILITY CONNECTION W/ SHUT-OFF VALVE. PROVIDE SUPPLY HOSE W/ QUICK DISCONNECT FOR EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.
10. 1/2" CO2 DOWN TO CEILING PANEL UTILITY CONNECTION W/ SHUT-OFF VALVE. PROVIDE SUPPLY HOSE W/ QUICK DISCONNECT FOR EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION OF INCUBATOR W/ LAB FURNISHING PLAN. 2.2

GENERAL NOTES

1. REFER TO LAB FURNISHING PLANS FOR ALL LAB FIXTURES & EQUIPMENT UTILITY CONNECTIONS.

1 **PLUMBING ENLARGED FLOOR PLAN - RM 321, 323, 325, 327 & 331 - LEVEL 03**

1/2P-132 | 1/4" = 1'-0"

N

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

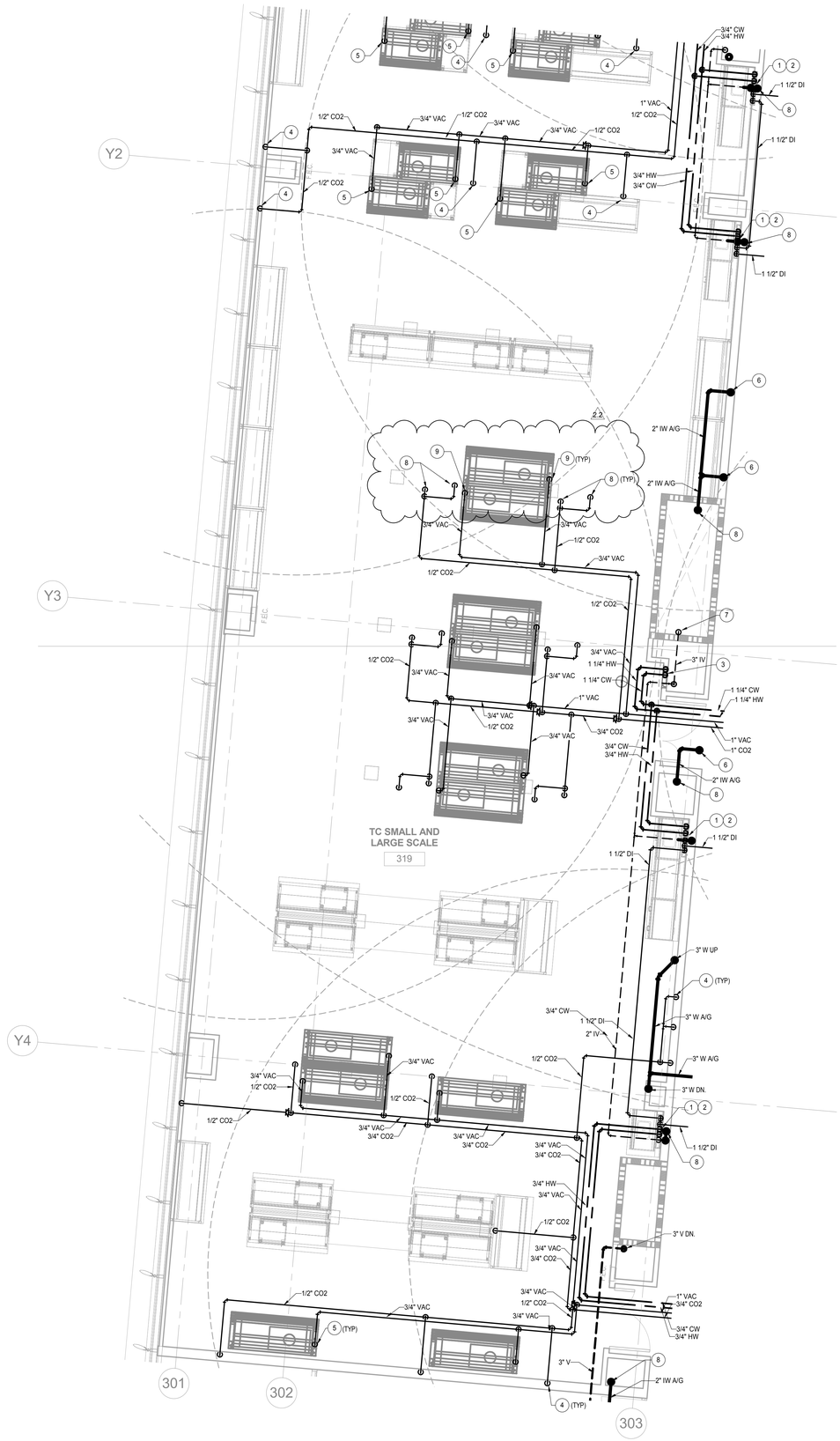
Sheet Title
PLUMBING ENLARGED FLOOR PLAN - LEVEL 03

Sheet No.
2P-435

10/2/2017 12:50:02 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

10/2/2017 12:50:03 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



1 PLUMBING ENLARGED FLOOR PLAN - RM 319 - LEVEL 03

1/2P-133 | 1/4" = 1'-0"

N

SHEET NOTES

1. 2" LW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 1/2" CO2 DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 48" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF INCUBATOR W/ LAB FURNISHING PLAN. 2.2
5. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.
6. 2" IW UP TO LAB SINK.
7. 3" IV UP TO FLOOR ABOVE. 2.2
8. 1/2" CO2 DOWN TO CEILING PANEL UTILITY CONNECTION W/ SHUT-OFF VALVE, PROVIDE SUPPLY HOSE W/ QUICK DISCONNECT FOR EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION OF INCUBATOR W/ LAB FURNISHING PLAN.
9. 3/4" VAC DOWN TO CEILING PANEL UTILITY CONNECTION W/ SHUT-OFF VALVE, PROVIDE SUPPLY HOSE W/ QUICK DISCONNECT FOR EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.

GENERAL NOTES

1. REFER TO LAB FURNISHING PLANS FOR ALL LAB FIXTURES & EQUIPMENT UTILITY CONNECTIONS.

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

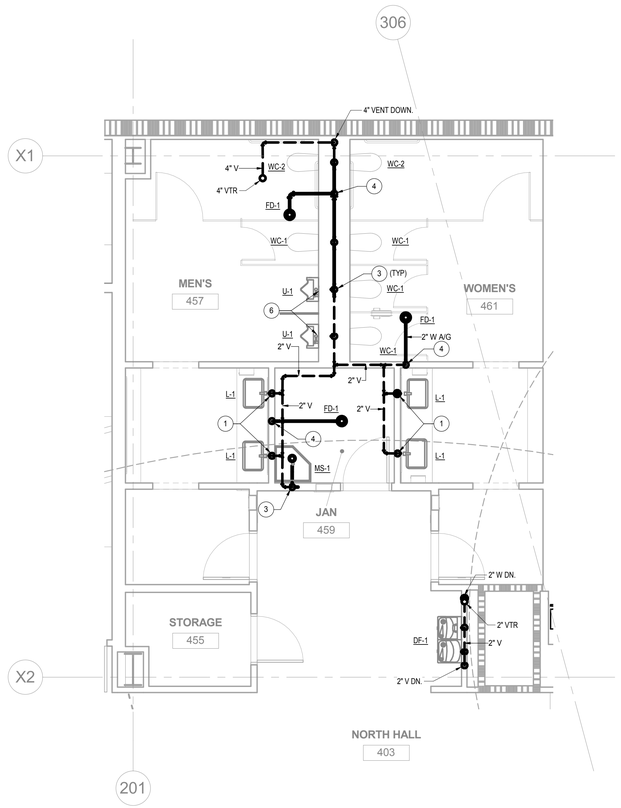
CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLAN - LEVEL 03

Sheet No.
2P-436

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

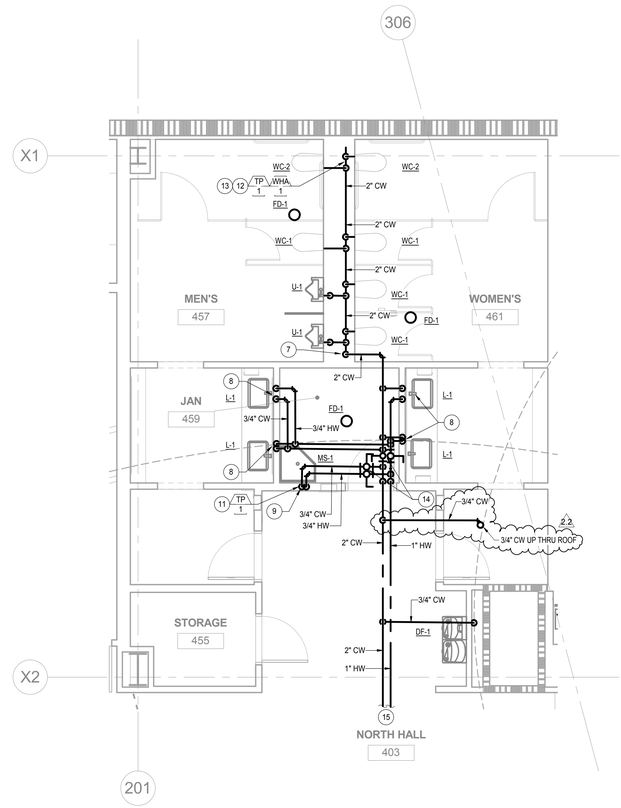
10/2/2017 12:50:06 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



1 PLUMBING ENLARGED FLOOR PLAN - LEVEL 04 - RESTROOMS 457 & 461 NORTH - DWV

N

1/2P-142 | 1/4" = 1'-0"



2 PLUMBING ENLARGED FLOOR PLAN - LEVEL 04 - RESTROOMS 457 & 461 NORTH - WATER

N

1/2P-142 | 1/4" = 1'-0"

SHEET NOTES

1. 2" WASTE DOWN, 2" VENT UP.
2. 3" WASTE DOWN, 2" VENT UP.
3. 4" WASTE DOWN, 2" VENT UP.
4. 2" VENT UP IN WALL.
5. 4" WASTE DOWN TO FLOOR BELOW.
6. PROVIDE 2" WALL CLEANOUT AT URINAL.
7. 2" CW DOWN IN WALL TO 2" HEADER IN WALL.
8. 3/4" CW & HW DOWN IN WALL TO LAVATORY SINK.
9. 3/4" CW & HW DOWN IN WALL TO MOP SINK.
10. 3/4" CW DOWN IN WALL TO DRINKING FOUNTAIN.
11. PROVIDE 1/2" CW DOWN IN WALL TO TRAP PRIMER.
12. PROVIDE TRAP PRIMER WITH ACCESS, SEE DETAIL 9/2P-501.
13. PROVIDE WATER HAMMER ARRESTOR WITH ACCESS, SEE DETAIL 7/2P-501.
14. PROVIDE SHUT-OFF VALVES WITH ACCESS.
15. FOR CONTINUATION SEE SHEET 2P-142.

GENERAL NOTES

1. XXX

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING ENLARGED FLOOR PLANS - LEVEL 04

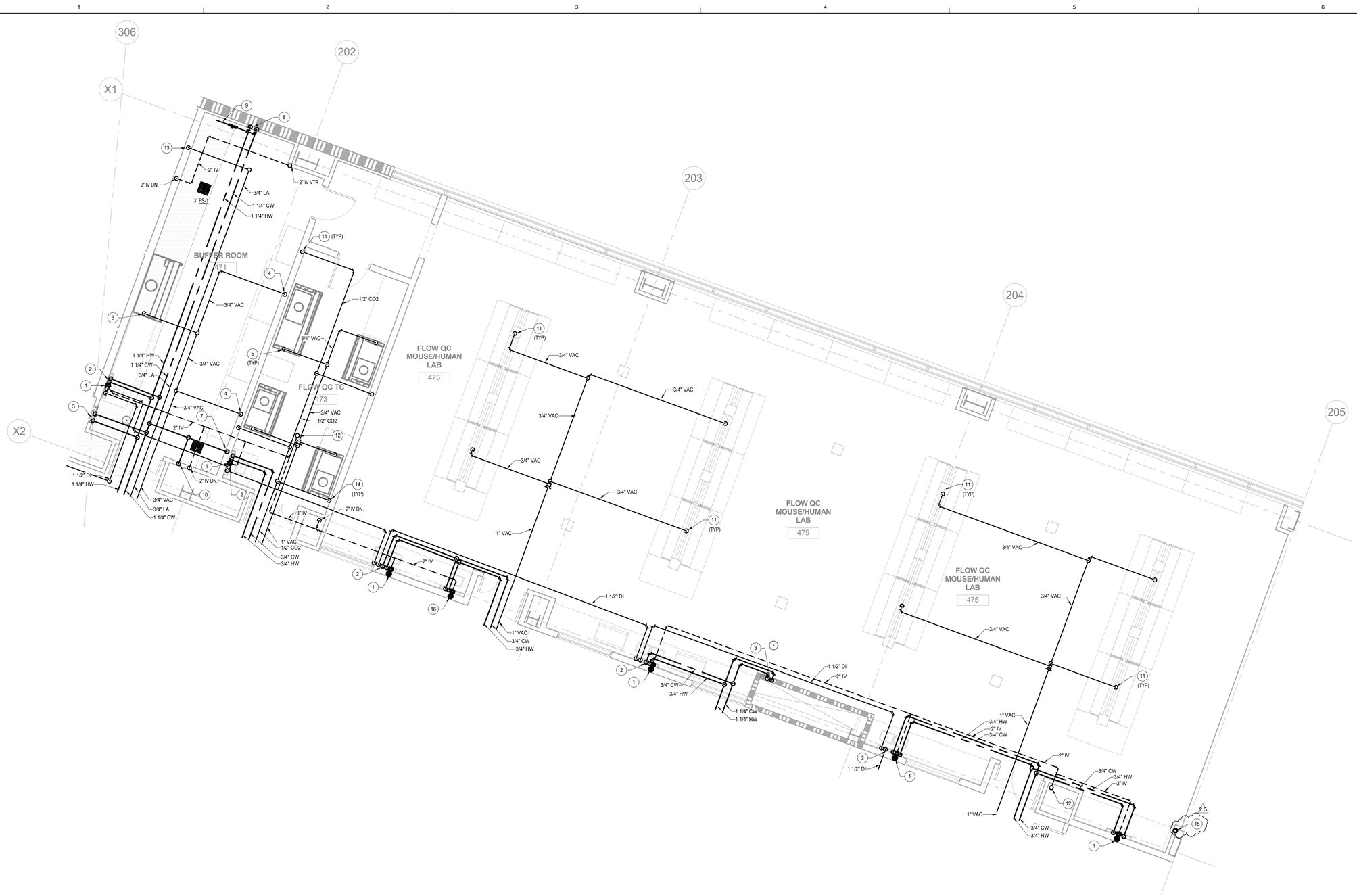
Sheet No.

2P-441

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

11/17/2017 9:34:00 AM



1 PLUMBING ENLARGED FLOOR PLAN - RM 471, 473 & 475 - LEVEL 04

1/2P-142 1/4" = 1'-0"

N

SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI AND 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 1-1/4" CW AND 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 3/4" VAC DOWN IN WALL TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
5. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.
6. 3/4" VAC DOWN TO FUME HOOD UTILITY CONNECTION.
7. 3/4" CW DOWN IN WALL TO ICE MAKER BOX.
8. 1-1/4" CW AND 1-1/4" HW DOWN TO BACKFLOW PREVENTORS. 2.3
9. 1-1/4" CW AND 1-1/4" HW TO SUPPLY AUTOCLAVE. PROVIDE WATER HAMMER ARRESTORS AT INLET SUPPLIES.
10. 1/2" CW DOWN IN WALL TO TRAP PRIMER. PROVIDE TRAP PRIMER WITH ACCESS, SEE DETAIL 9/2P-501.
11. 3/4" VAC DOWN TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
12. 3" IV UP THRU ROOF.
13. 3/4" LA DOWN TO AUTOCLOAVE.
14. 1/2" CO2 DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 48" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF INCUBATOR W/ LAB FURNISHING PLAN.
15. 2" VENT DOWN AND VENT THRU ROOF. 2.3
16. 1 1/2" DI

GENERAL NOTES

1. XXX

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

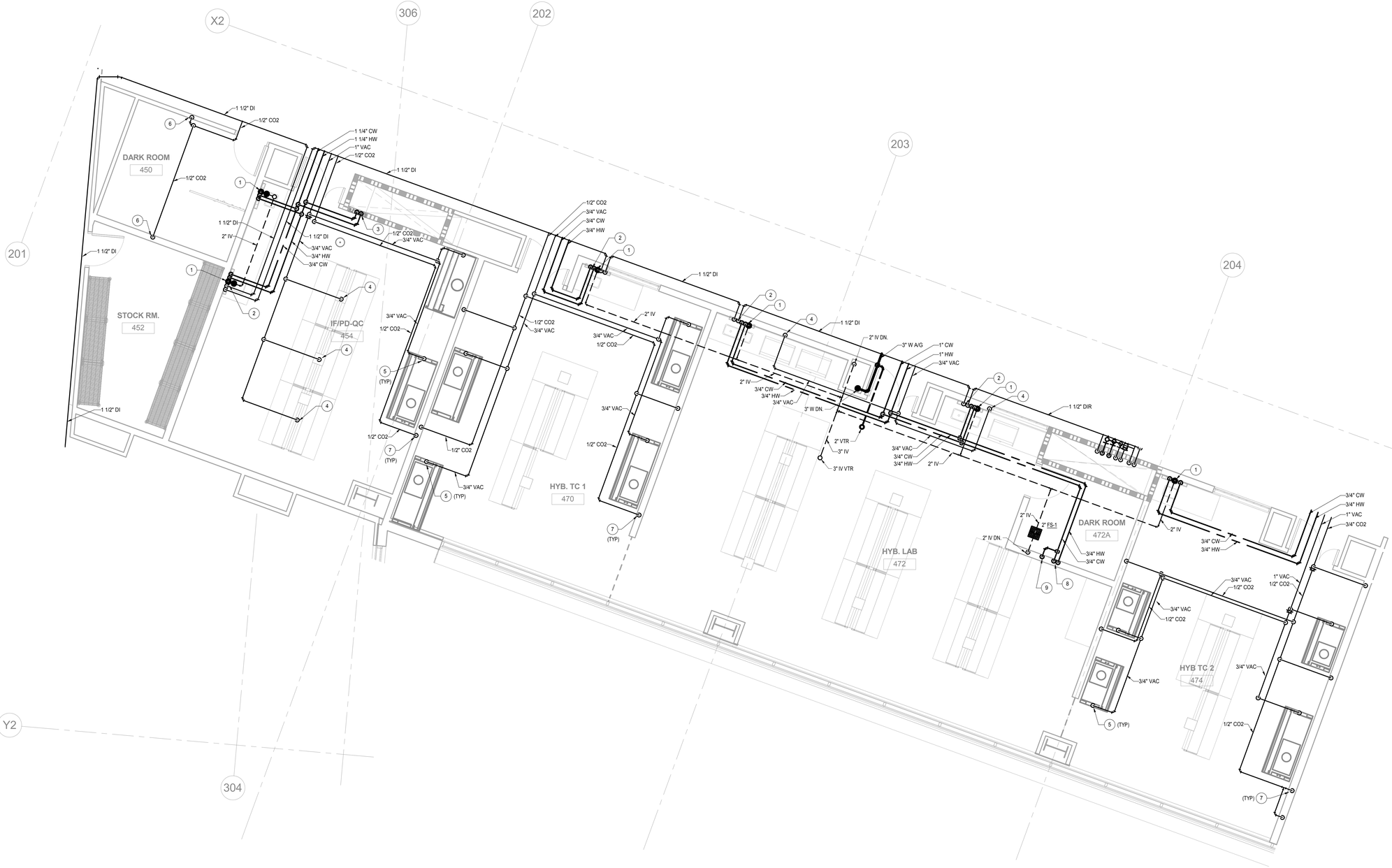
PLUMBING ENLARGED FLOOR PLAN - LEVEL 04

Sheet No.

2P-442

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 12:50:25 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



1 PLUMBING ENLARGED FLOOR PLAN - RM 454, 470, 472 & 474 - LEVEL 04

1/2P-142 | 1/4" = 1'-0"

N

SHEET NOTES

1. 2" IW DN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURES.
3. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 3/4" VAC DOWN TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
5. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN. 2.2
6. 1/2" CO2 DOWN TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
7. 1/2" CO2 DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 48" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF INCUBATOR W/ LAB FURNISHING PLAN. 2.2
8. 1/2" CW AND HW DOWN IN WALL TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
9. 1/2" CW DOWN IN WALL TO TRAP PRIMER. PROVIDE TRAP PRIMER WITH ACCESS, SEE DETAIL 9/2P-501.

GENERAL NOTES

1. XXX

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

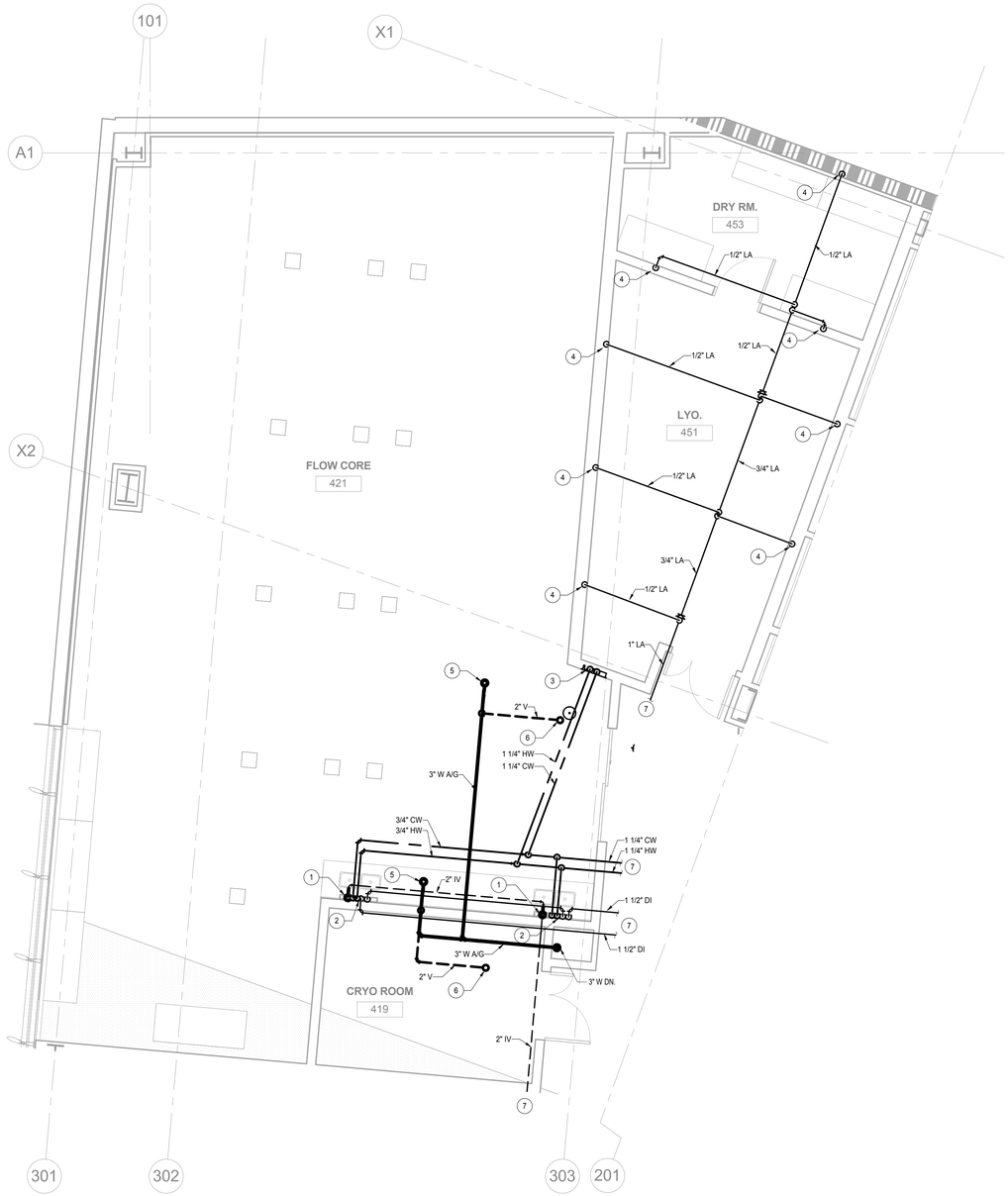
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLAN - LEVEL 04

Sheet No.
2P-443

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
4. 1/2" LA. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
5. 3" WASTE UP TO ROOF RECPTOR.
6. 2" VENT THRU ROOF.
7. FOR CONTINUATION SEE SHEET 2P-142.

GENERAL NOTES

1. XXX

1 **PLUMBING ENLARGED FLOOR PLAN - RM 419, 421, 451 & 453 - LEVEL 04**

1/2P-142 1/4" = 1'-0"

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
1	04.25.17	DESIGN DEVELOPMENT
2	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLAN - LEVEL 04

Sheet No.
2P-444

8/7/2017 1:30:24 PM
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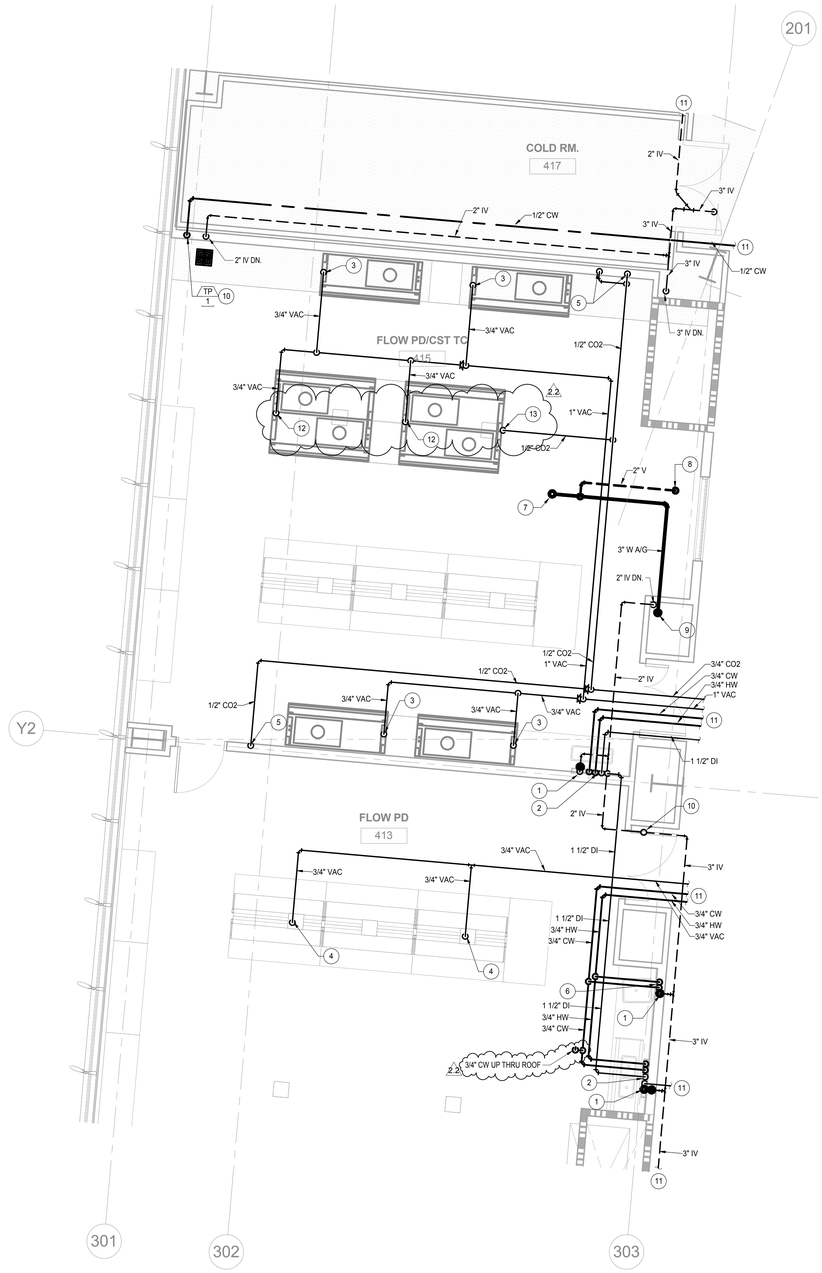

SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN. (2.2)
4. 3/4" VAC DOWN TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
5. 1/2" CO2 DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 48" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF INCUBATOR W/ LAB FURNISHING PLAN. (2.2)
6. 3/4" CW AND HW DOWN IN WALL TO LAB FIXTURE.
7. 3" WASTE UP TO ROOF RECEPTOR.
8. 2" VENT THRU ROOF.
9. 3" WASTE DOWN TO FLOOR BELOW.
10. 1/2" CW DOWN TO TRAP PRIMER. PROVIDE TRP PRIMER WITH ACCESS. SEE DETAIL 9/2P-501.
11. FOR CONTINUATION SEE SHEET 2P-143. (2.2)
12. 3/4" VAC DOWN TO CEILING PANEL UTILITY CONNECTION W/ SHUT-OFF VALVE. PROVIDE SUPPLY HOSE W/ QUICK DISCONNECT FOR EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.
13. 1/2" CO2 DOWN TO CEILING PANEL UTILITY CONNECTION W/ SHUT-OFF VALVE. PROVIDE SUPPLY HOSE W/ QUICK DISCONNECT FOR EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION OF INCUBATOR W/ LAB FURNISHING PLAN.

GENERAL NOTES

1. XXX

1 **PLUMBING ENLARGED FLOOR PLAN - RM 413, 415 & 417 - LEVEL 04**

1/2P-142 | 1/4" = 1'-0"

N

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ENLARGED FLOOR PLAN - LEVEL 04

Sheet No.
2P-445

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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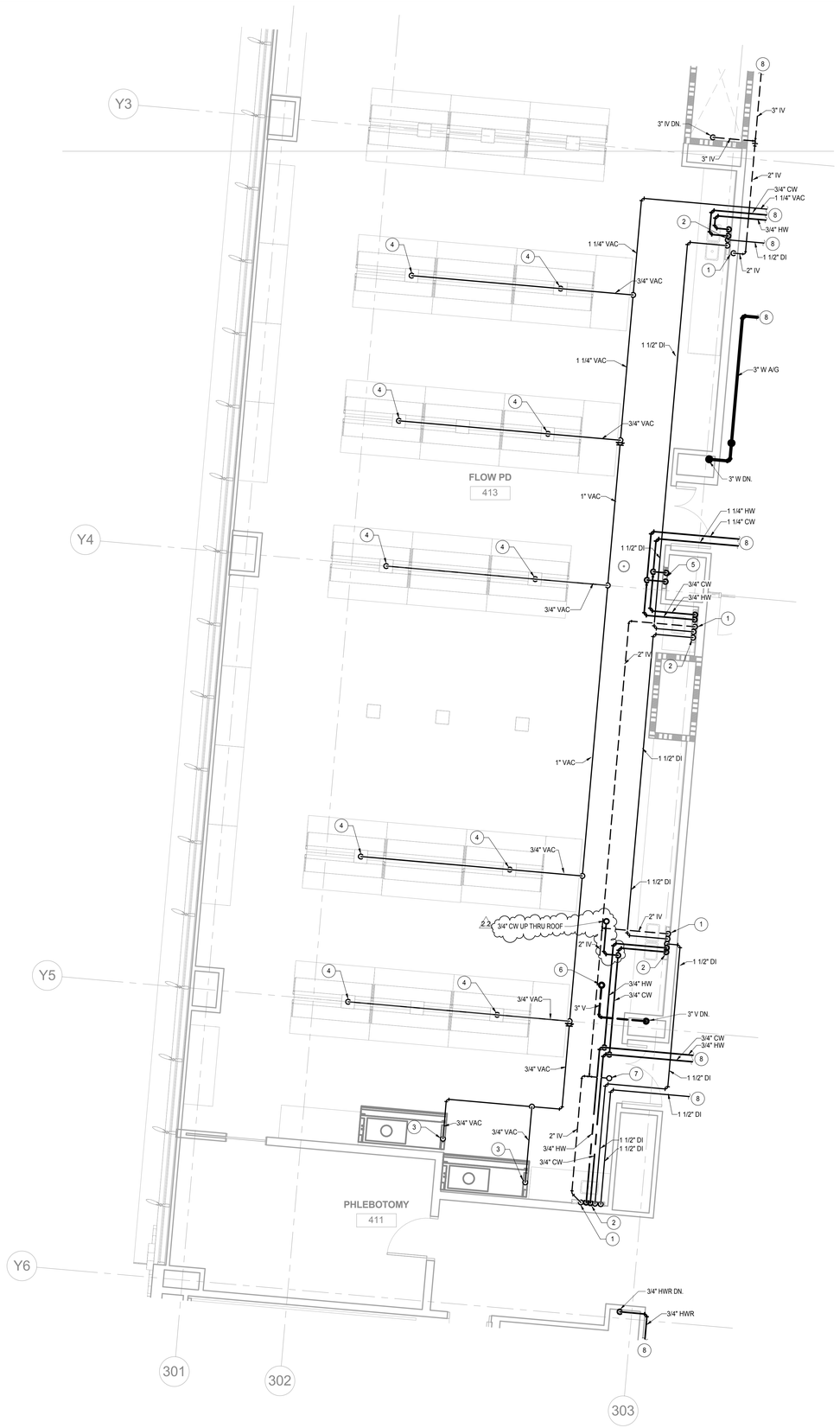

SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2" DIR DOWN IN UMBILICAL TO LAB FIXTURE. 2.2
3. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN.
4. 3/4" VAC DOWN TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
5. 1-1/4" CW & 1-1/4" HW DOWN TO EMERGENCY SHOWER COMBO. MIXING VALVE AND SHUT-OFF VALVES TO BE LOCATED ABOVE CEILING.
6. 3" VENT THRU ROOF.
7. 2" IV VENT THRU ROOF.
8. FOR CONTINUATION SEE SHEET 2P-143.

GENERAL NOTES

1. XXX

1 **PLUMBING ENLARGED FLOOR PLAN - RM 411 & 413 - LEVEL 04**

1/2P-143 | 1/4" = 1'-0"

N

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING ENLARGED FLOOR PLAN - LEVEL 04

Sheet No.

2P-446

DPR Issued Sheet 2017-10-03
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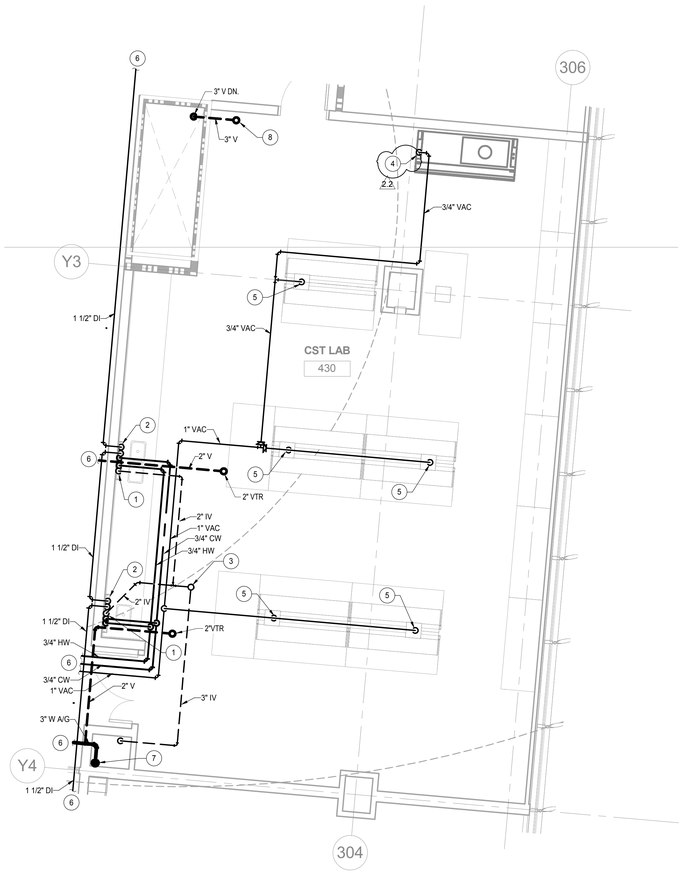

SHEET NOTES

1. 2" IW DOWN, 2" IV UP.
2. 3/4" CW, HW, 1-1/2" DI & 1-1/2 DIR DOWN IN UMBILICAL TO LAB FIXTURE.
3. 3" IV VENT THRU ROOF.
4. 3/4" VAC DOWN IN WALL AND STUB-OUT W/ SHUT-OFF VALVE AT 20" ABOVE FINISH FLOOR. COORDINATE EXACT LOCATION OF BIO SAFETY CABINET W/ LAB FURNISHING PLAN. (2.2)
5. 3/4" VAC DOWN TO LAB OUTLET. REFER TO LAB FURNISHING PLAN FOR TERMINATION POINT.
6. FOR CONITNUATION SEE SHEET 2P-143.
7. 3" WASTE DOWN TO FLOOR BELOW.
8. 3" VENT THRU ROOF.

GENERAL NOTES

1. XXX

1 **PLUMBING ENLARGED FLOOR PLAN - LAB 430 - LEVEL 04**

1/2P-143 1/4" = 1'-0"

N

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING ENLARGED FLOOR PLAN - LEVEL 04

Sheet No.

2P-447

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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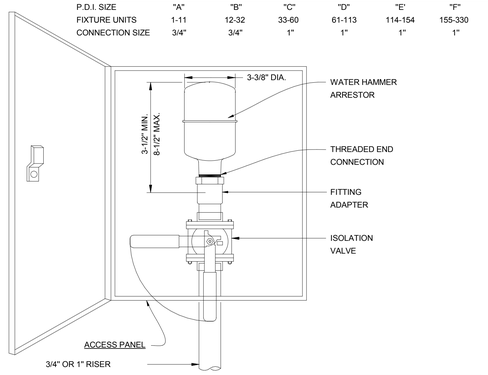
WATER HAMMER ARRESTOR SCHEDULE

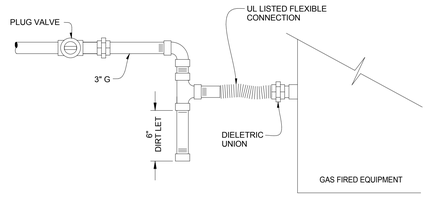
P.D.I. SIZE	"A"	"B"	"C"	"D"	"E"	"F"
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330
CONNECTION SIZE	3/4"	3/4"	1"	1"	1"	1"



NOTE:INSTALLATION SHALL COMPLY W/P.D.I. STANDARD WH201. UNITS NOT SIZED ON PLAN SHALL BE SIZED PER SCHEDULE ABOVE

WATER HAMMER ARRESTER DETAIL

SCALE NONE | 7



GAS CONNECTION

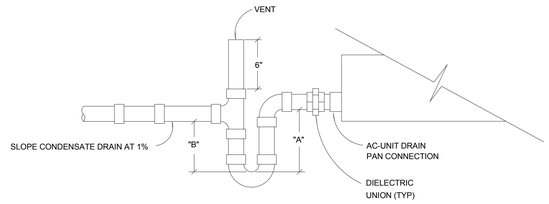
SCALE NONE | 4

DRAIN LINE SIZES

0-20	TONS	=3/4"
21-40	TONS	=1"
41-90	TONS	=1-1/4"
91-125	TONS	=1 1/2"
126-250	TONS	=2"

KEY

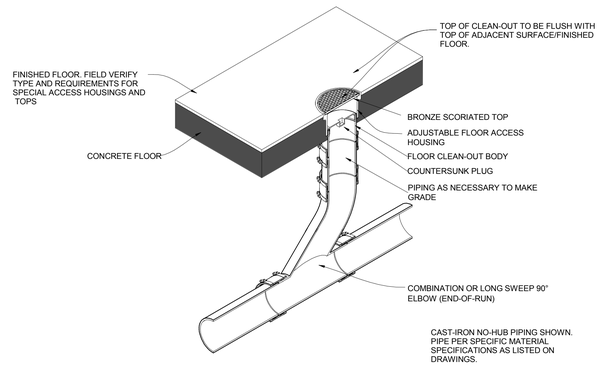
"A" = S.P. X 1.5 + 2"
"B" = S.P. X 0.5 + 1"



* INSULATE CONDENSATE PIPING MINIMUM OF 20' FROM MECHANICAL CONNECTION

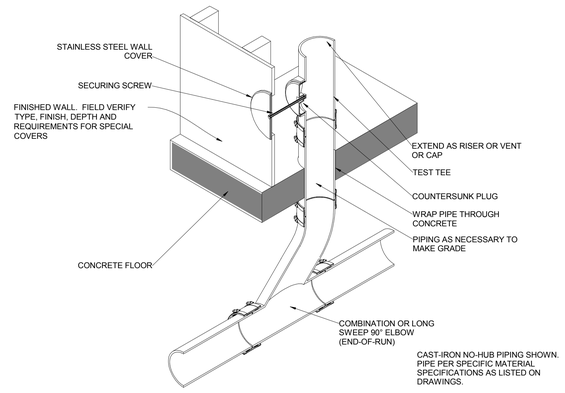
CONDENSATE TRAP

SCALE NONE | 1



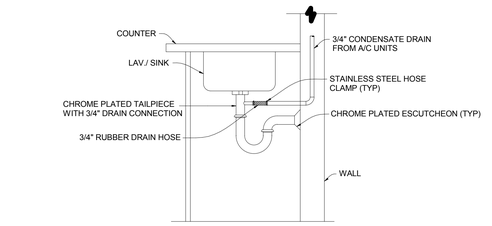
FLOOR CLEANOUT / CLEANOUT TO GRADE

SCALE NONE | 8



WALL CLEANOUT

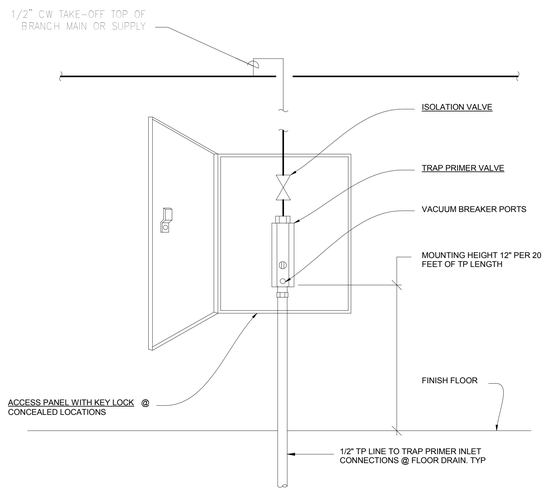
SCALE NONE | 5



*PROVIDE POLYPROPYLENE TAIL PIECE WITH 3/4" DRAIN CONNECTION WHERE CONDENSATE IS CONNECTED TO LAB SINK.

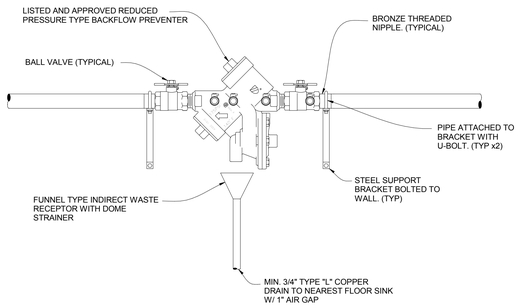
CONDENSATE TO LAV P-TRAP

SCALE NONE | 2



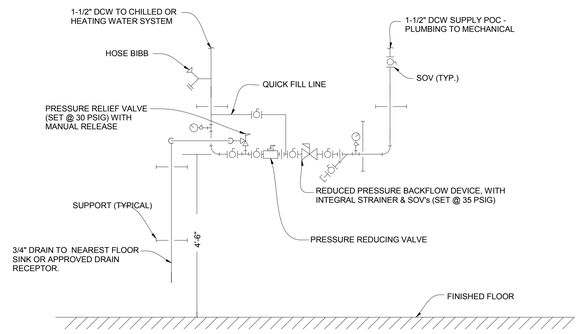
TRAP PRIMER DETAIL

SCALE NONE | 9



BACKFLOW PREVENTER

SCALE NONE | 6



MAKE-UP WATER ASSEMBLY

SCALE NONE | 3

GENE THEORY
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING DETAILS

Sheet No.
2P-501

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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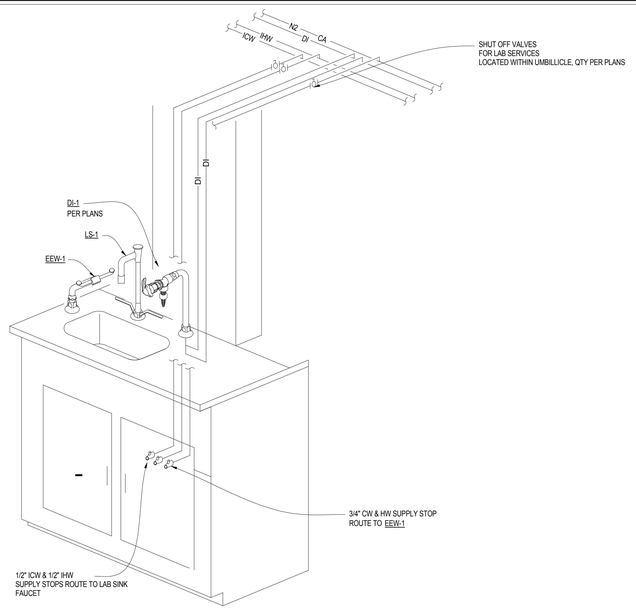
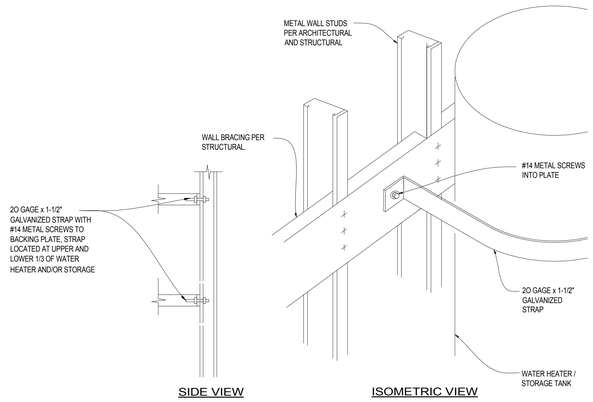


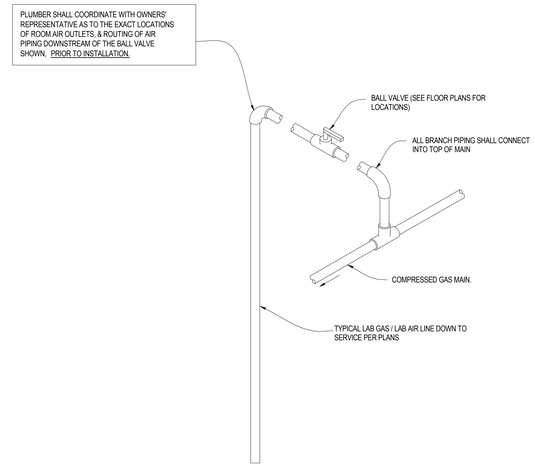
LAB SINK PIPING

SCALE: NONE | 7



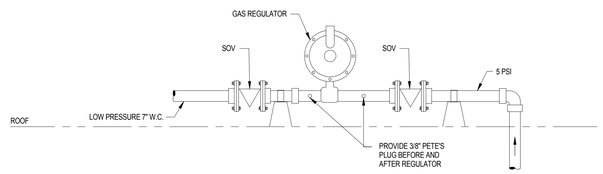
WATER HEATER ANCHORAGE

SCALE: NONE | 4



LAB GAS / AIR BRANCH

SCALE: NONE | 1



GAS REGULATOR ON ROOF

SCALE: NONE | 8

NOTES:

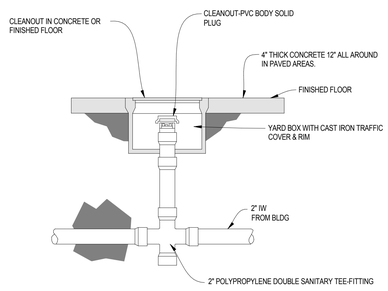
1. HOODS ARE PRE-PIPED AND INCLUDE REMOTE CONTROL VALVES.
2. THIS DETAIL REPRESENTS A TYPICAL FUME HOOD INSTALLATION. VERIFY EXACT HOOD CONFIGURATION PRIOR TO RUNNING SERVICE LINES. SERVICES & FIXTURES MAY VARY. SEE PLANS FOR UTILITIES REQUIRED AT EACH HOOD.
3. LOCATION OF SERVICE DROPS VARY PER PLANS.

FUME HOOD CONNECTIONS

SCALE: NONE | 5

STORAGE TANK (ST-1)

SCALE: NONE | 2



INDUSTRIAL WASTE SAMPLE PORT

SCALE: NONE | 9

WATER HEATER SYSTEM PIPING DIAGRAM

SCALE: NONE | 6

GAS WATER HEATER (WH-1 & WH-2)

SCALE: NONE | 3

GENE THEORY

CP-2

VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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CITY SUBMITTAL SET
08.08.17

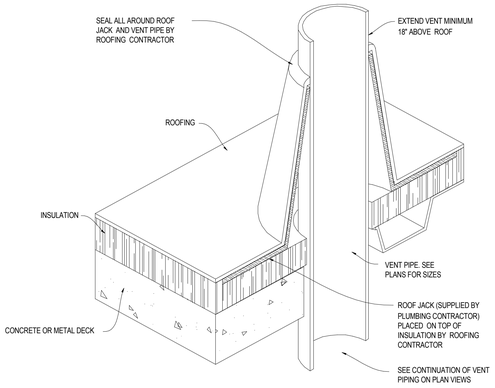
Sheet Title

PLUMBING
DETAILS

Sheet No.

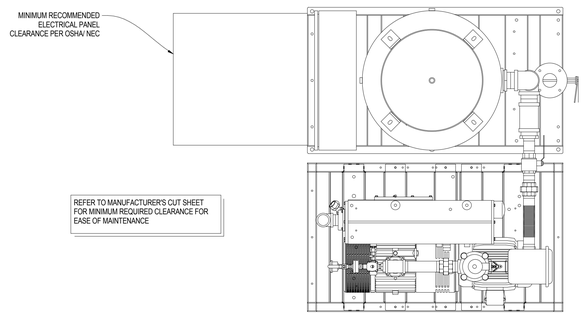
2P-502

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



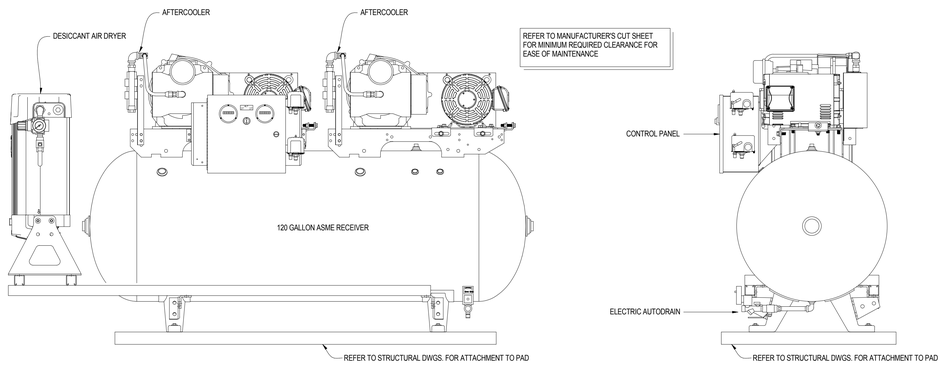
VENT THRU ROOF

SCALE: NONE — 3



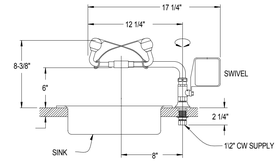
LABORATORY VACUUM PUMP DETAIL

SCALE: NONE — 4

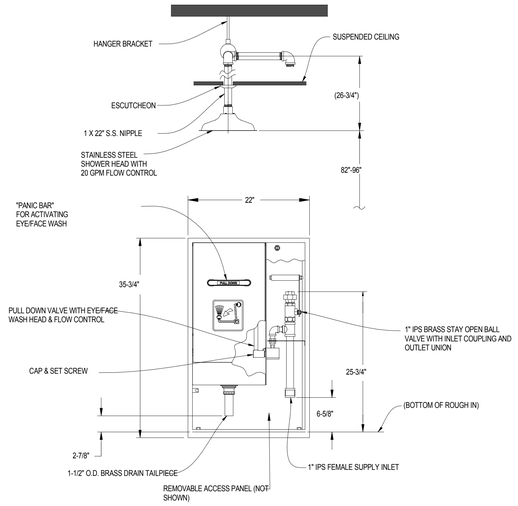


LABORATORY AIR COMPRESSOR DETAIL

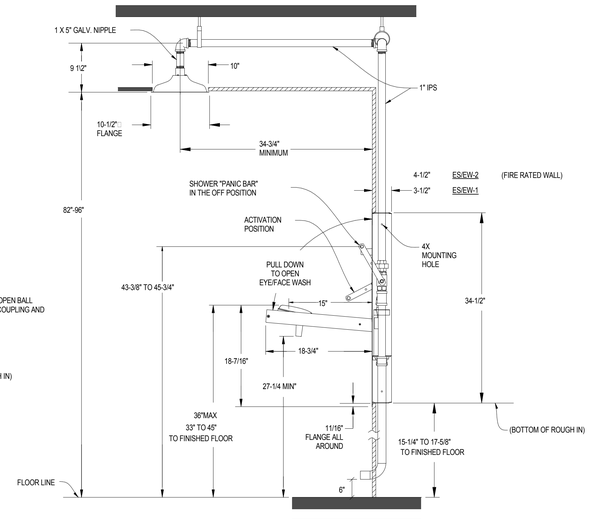
SCALE: NONE — 5



EEW-1



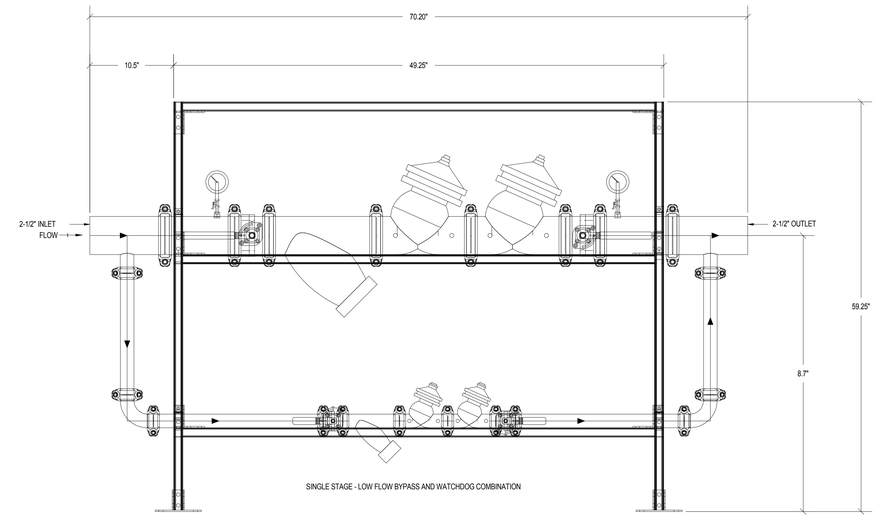
ES/EW-1



ES/EW-2

EMERGENCY EYEWASH / EYEWASH SHOWER COMBO STATIONS

SCALE: NONE — 1



WATER SERVICE ENTRANCE - PRESSURE REGULATOR ASSEMBLY

SCALE: NONE — 2

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING DETAILS

Sheet No.
2P-503

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Link to the Sheet - 2G-002

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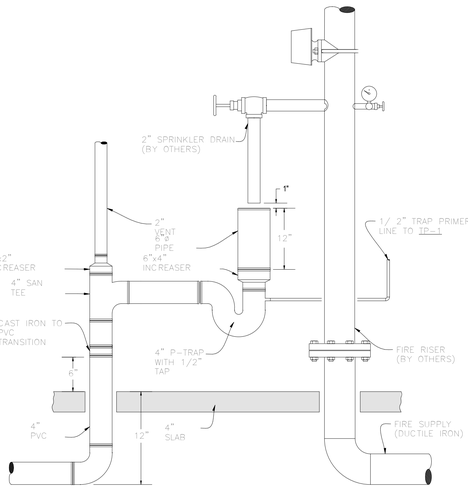
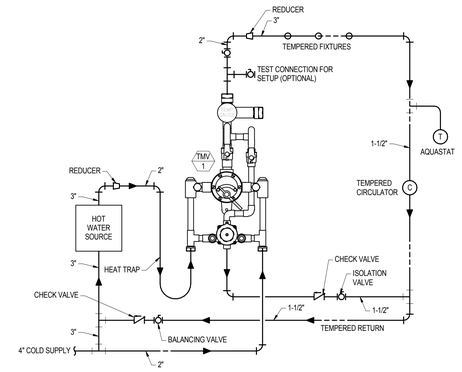


HUB DRAIN DETAIL

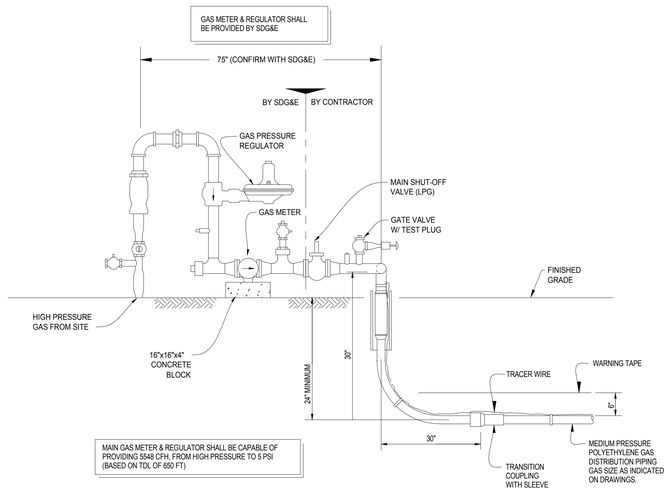
SCALE	4
NONE	



THERMOSTATIC MIXING VALVE (TMV-1)

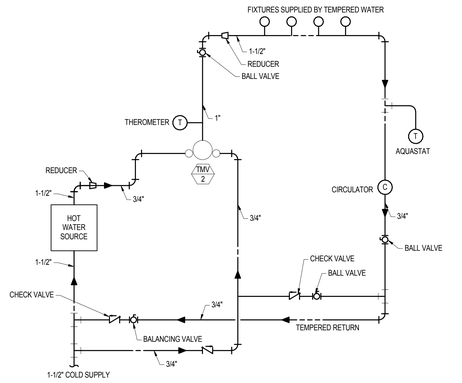
SCALE	1
NONE	

-	SCALE	7
	NONE	



GAS METER

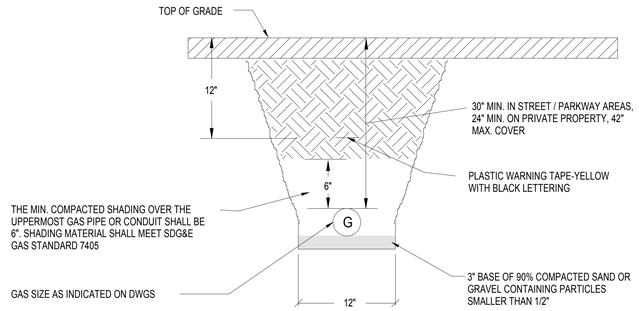
SCALE	5
NONE	



THERMOSTATIC MIXING VALVE (TMV-2)

SCALE	2
NONE	

-	SCALE	8
	NONE	



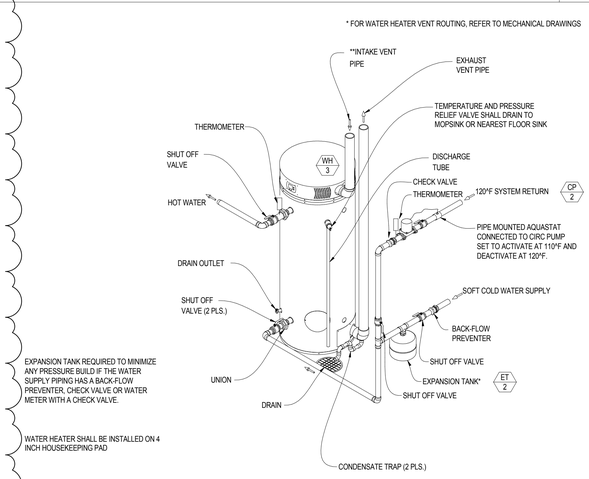
NOTES:

1. NO WET UTILITIES ALLOWED IN THE SAME TRENCH AS NATURAL GAS PIPING.
2. A MIN OF 12" HORIZONTAL SEPERATION OF UNDISTURBED SOIL REQUIRED BETWEEN GAS TRENCH AND ANY WATER, SEWER, OR DRAIN PIPE, MIN 6" VERTICAL SEPERATION IS REQUIRED FOR CROSSINGS.

GAS TRENCH

SCALE	6
NONE	

-	SCALE	9
	NONE	



GAS WATER HEATER

SCALE	3
NONE	

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING DETAILS

Sheet No.
2P-504

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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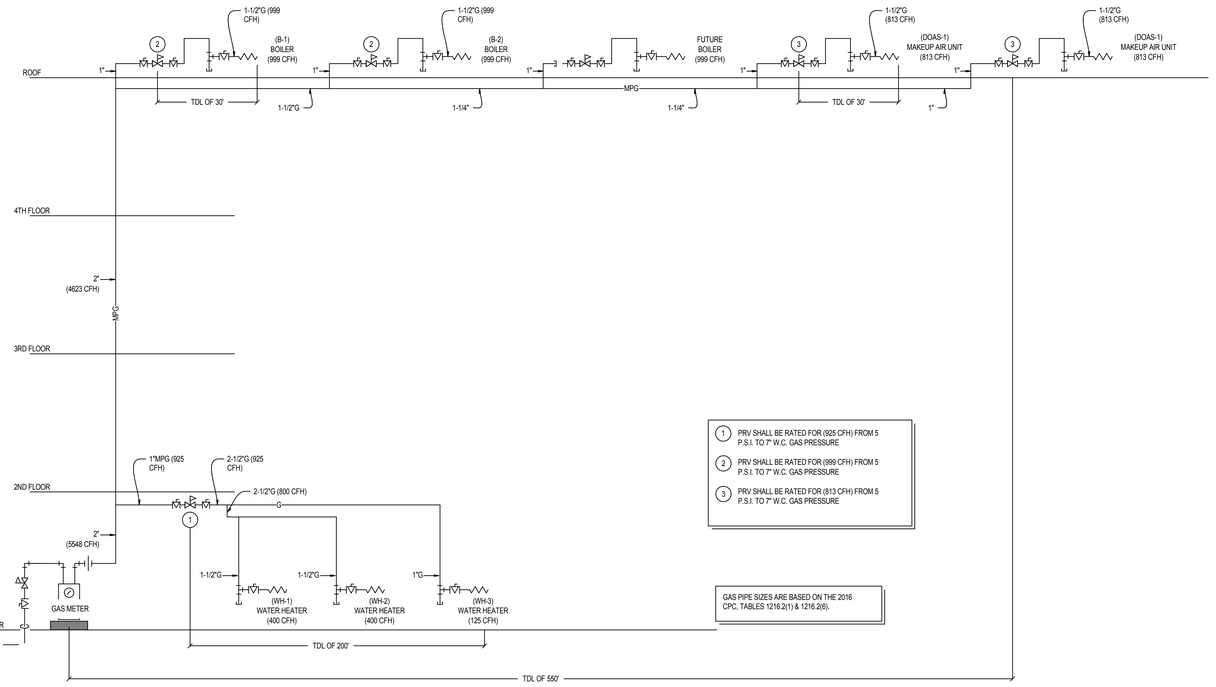

GAS METER & REGULATOR SHALL BE PROVIDED BY SDG&E

MAIN GAS METER & REGULATOR SHALL BE CAPABLE OF PROVIDING 5548 CFH, FROM HIGH PRESSURE TO 7" W.C. (BASED ON TDL OF 550 FT')

1. PRV SHALL BE RATED FOR (925 CFH) FROM 5 P.S.I. TO 7" W.C. GAS PRESSURE
2. PRV SHALL BE RATED FOR (999 CFH) FROM 5 P.S.I. TO 7" W.C. GAS PRESSURE
3. PRV SHALL BE RATED FOR (813 CFH) FROM 5 P.S.I. TO 7" W.C. GAS PRESSURE

GAS PIPE SIZES ARE BASED ON THE 2016 CPC, TABLES 1216.2(1) & 1216.2(6).

PLUMBING DIAGRAM - GAS

SCALE: NONE

1

GENE THEORY
CP-2
VOLUME: 2

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CITY SUBMITTAL SET
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Sheet Title
PLUMBING DIAGRAMS

Sheet No.
2P-505

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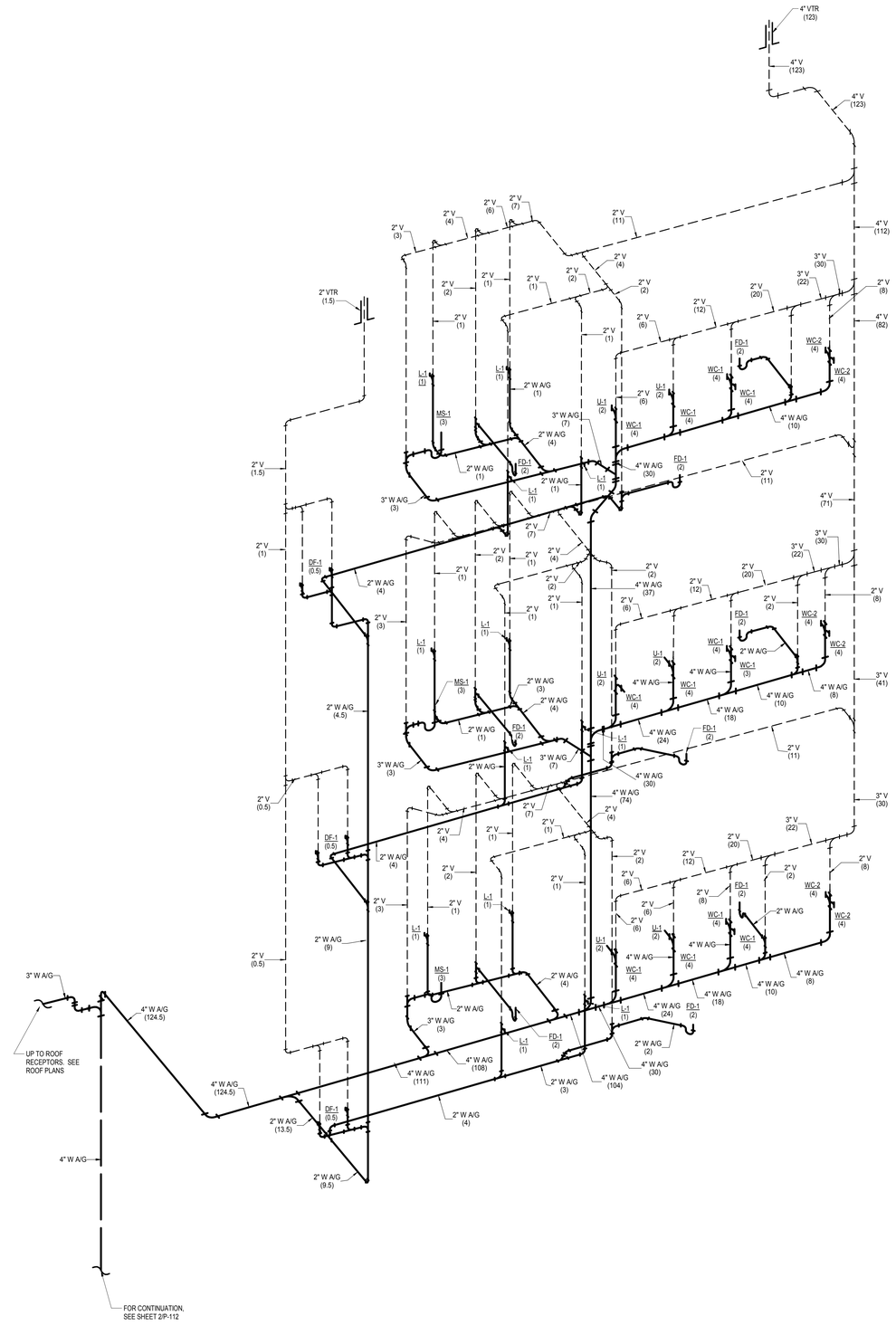

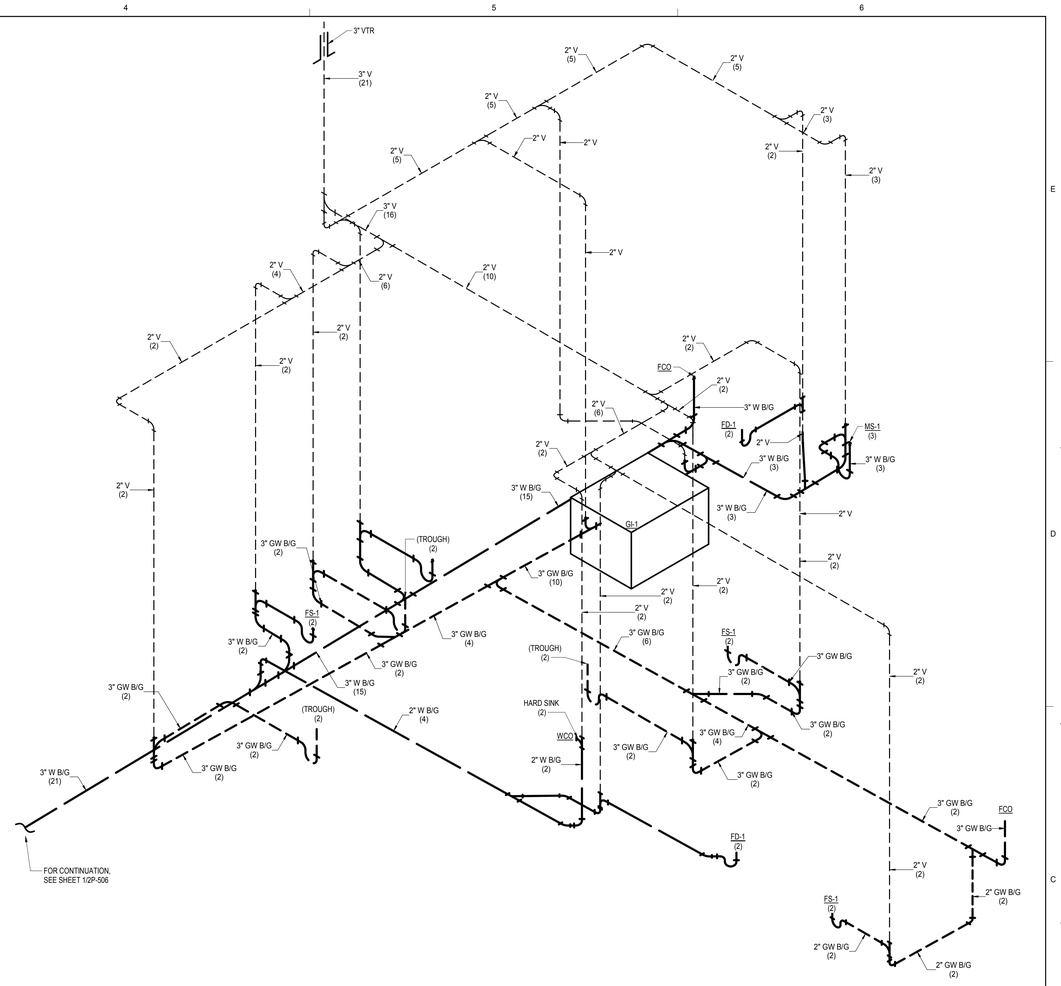

THE CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT WASTEWATER
FOOD ESTABLISHMENT WASTEWATER DISCHARGE PERMIT PROGRAM
9150 TOPAZ WAY, SAN DIEGO, CA 92123-1119 (858) 654-4188 FAX: (858) 614-4519

PUBLIC UTILITIES

PLAN CHECK LIST

Plan Review Date: **09/27/2017** Inspection Due Date: 12/27/2017 Extended Due Dates: _____ _____

Plan Type: NEW _____ _____

Estab Name: BIOLEGEND Estab#: **18390**

Owner: 8957 TERMAN CT SAN DIEGO, 92121

Plan Contact: COREY DE LA CRUZ, DEC ENGINEERS (858) 578-3270

BIOLEGEND

Fixt #	Fixture Name	Fixture Description/Use	GRE REQ	GRE Size	GRE ID	Fixture Comment
E08	3-COMP. SINK	(POT SINK)	Y	100 gallon	# 1	28X20X14 - GWS1
E03	PRE-RINSE	SCULLERY	Y	100 gallon	# 1	GWS2
	FLOOR TROUGH		Y	100 gallon	# 1	GWT1
	FLOOR TROUGH		Y	100 gallon	# 1	GWT2
MS1	MOP SINK	FLOOR MOUNT	N			
E14	1-COMP. SINK	HAND	N			
E02	DISHWASHER	SCULLERY	N			
C14	1-COMP. SINK	VEG PREP	N			
	FLOOR DRAIN		N			BY MS
	FLOOR DRAIN		N			BY VP SINK

CONNECT FIXTURES INDICATED ABOVE (Y) TO A GREASE INTERCEPTOR MINIMUM SIZE 100GPM/200LBS.
***HAND DRAWN CORRECTIONS MADE AT PLAN CHECK. A FLOOR SINK WAS ADDED TO THE PLANS FOR THE DISHWASHER. THIS FLOOR SINK IS CONNECTED TO THE SANITARY SEWER LINE. ALSO THE SINK BASIN DIMENSIONS FOR THE 3-COMPARTMENT POT SINK WERE ADDED TO THE PLANS AND THE SIZE OF THE GREASE INTERCEPTOR WAS CHANGED FROM 35GPM/70LBS TO 100GPM/200LBS.

CITY OF SAN DIEGO
FEWD PERMIT PROGRAM
GREASE REMOVAL EQUIPMENT
APPROVED
REVIEWED BY
DATE 9/27/17

*****IMPORTANT*****

*** This plan check identifies fixtures requiring Grease Removal Equipment (GRE) and the required minimum size of GRE ONLY.**
*** All installation/plumbing must be inspected/approved by the Development Services Department (619-446-5156). This fixture list, or a copy, must be available on site during the plumbing inspection.**
*** You must re-submit your plans to the FEWD Permit Program if any plumbing changes are made to the plans after the plan review date.**
*** DISHWASHERS MAY NOT BE CONNECTED TO A GREASE INTERCEPTOR PER 2016 CALIFORNIA PLUMBING CODE.**
*** A sample box is required on all Gravity Grease Interceptors (GGI) or substitute model (SCHIER GB-75 or GB-250).**
*** 3 manholes are required on Gravity Grease Interceptors 1500 gallons and over, 4 total with the sample box.**
*** Location of Grease Removal Equipment to be determined by DEPARTMENT OF ENVIRONMENTAL HEALTH (858-505-6659).**
*** NO suspended grease interceptors requiring a ladder to access will be allowed.**
*** Size of GRE installed should match or exceed size on Plan Check List.**
*** Approved grease interceptors must have PDI or IAPMO Certification or must meet ASME A112 Standards per the California Plumbing Code.**

OWNER/AGENT PRINT NAME Corey De la Cruz

OWNER/AGENT SIGN NAME Corey De la Cruz

CITY OF SAN DIEGO
FEWD PERMIT PROGRAM
GREASE REMOVAL EQUIPMENT
APPROVED
REVIEWED BY
DATE 9/27/17

GENE THEORY
CP-2
VOLUME: 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ISOMETRICS - DWV

2.2

Sheet No.
2P-506

1 PLUMBING ISOMETRICS - DWV - LEVELS 2, 3 AND 4 - NORTH

2 PLUMBING ISOMETRIC - DWV - LEVEL 1 - WASH AND STORAGE ROOM

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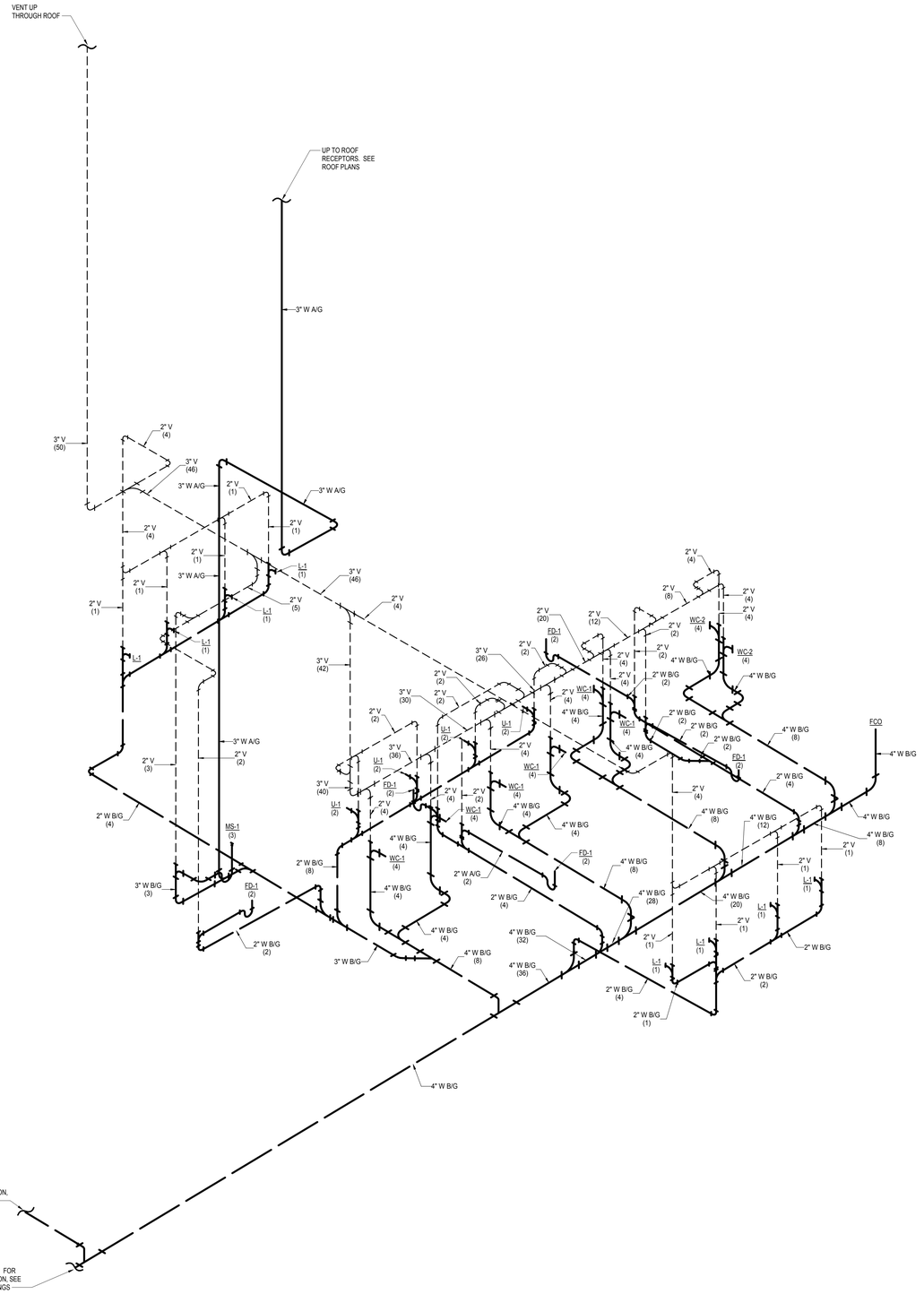

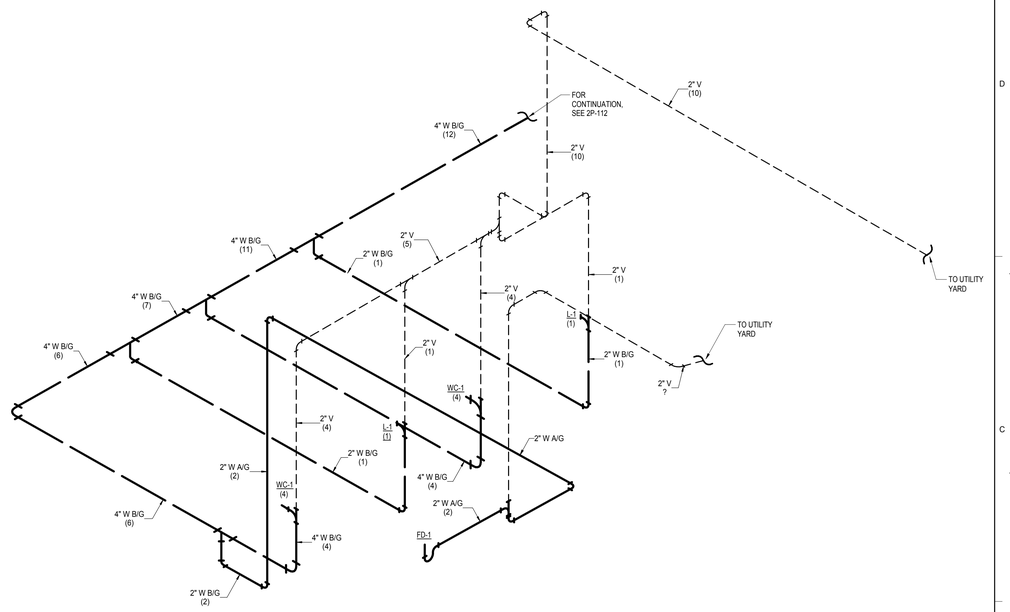

1	PLUMBING ISOMETRIC - DWV - LEVEL 1 - PART B
/	

2	PLUMBING ISOMETRIC - DWV - LEVEL 1 - PART B - RESTROOMS
/	

GENE THEORY

CP-2

VOLUME: 2

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Sheet Title

PLUMBING ISOMETRICS - DWV

2.2

Sheet No.

2P-507

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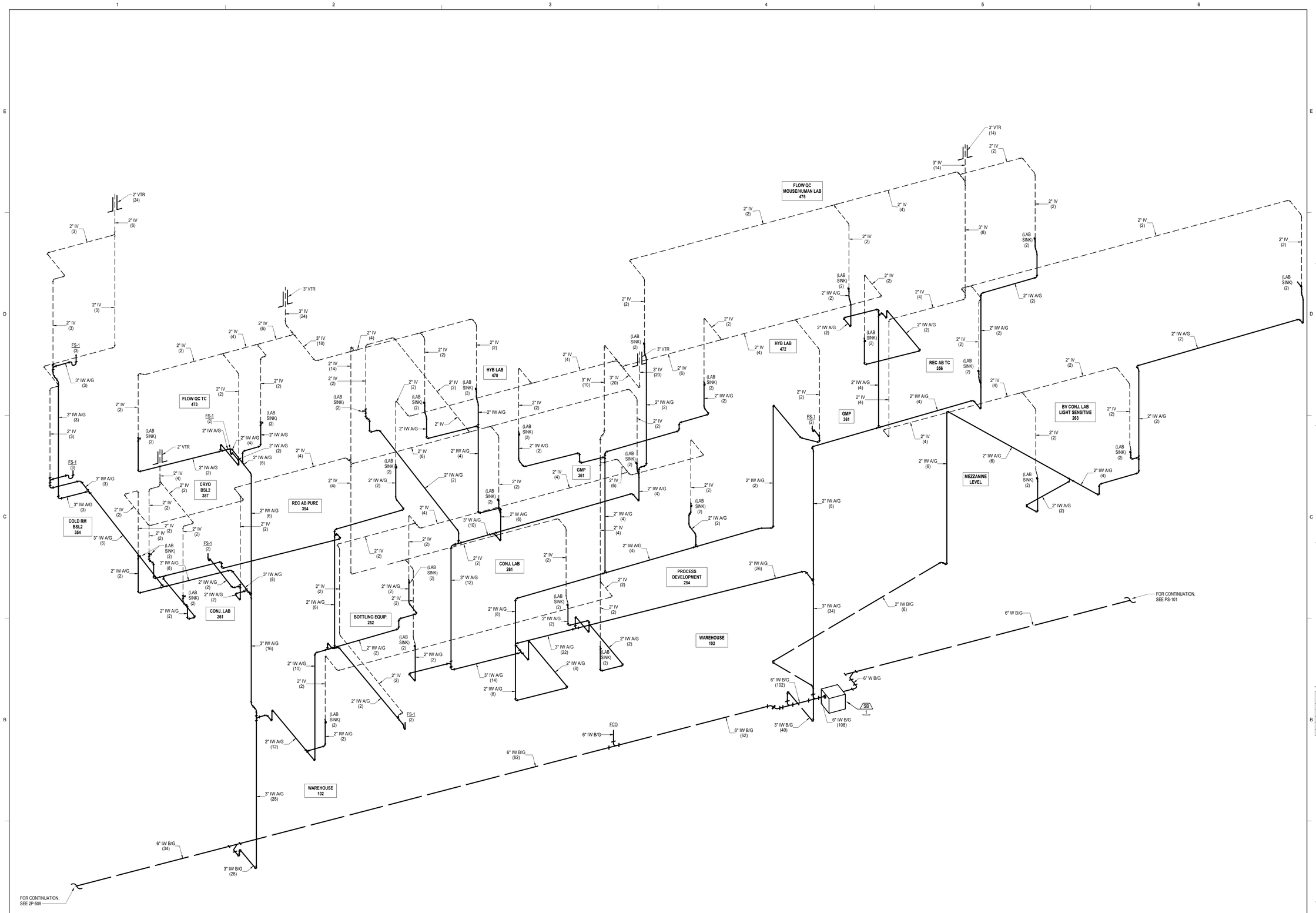

1 PLUMBING ISOMETRIC - IDWV - LABS - PART A

GENE THEORY
CP-2
VOLUME: 2

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08.08.17

Sheet Title
PLUMBING ISOMETRICS - LABS - IDWV

Sheet No.
2P-508

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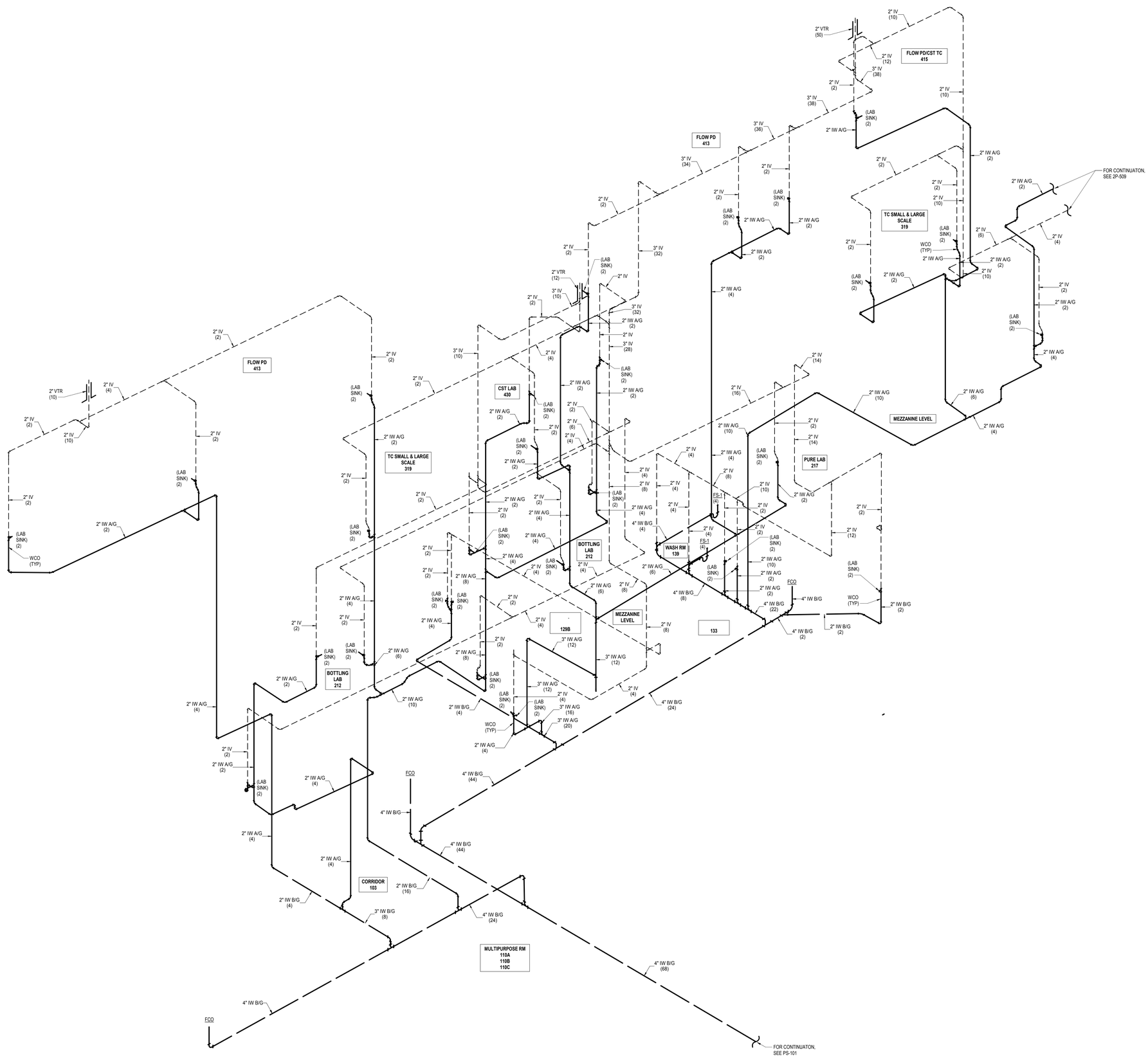

1 / PLUMBING ISOMETRIC - IDWV - LABS - PART B1

GENE THEORY

CP-2

VOLUME: 2

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REDWOOD CITY, CA 94063

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CITY SUBMITTAL SET
08.08.17

Sheet Title

PLUMBING ISOMETRICS - LABS - IDWV

2.2

Sheet No.

2P-509

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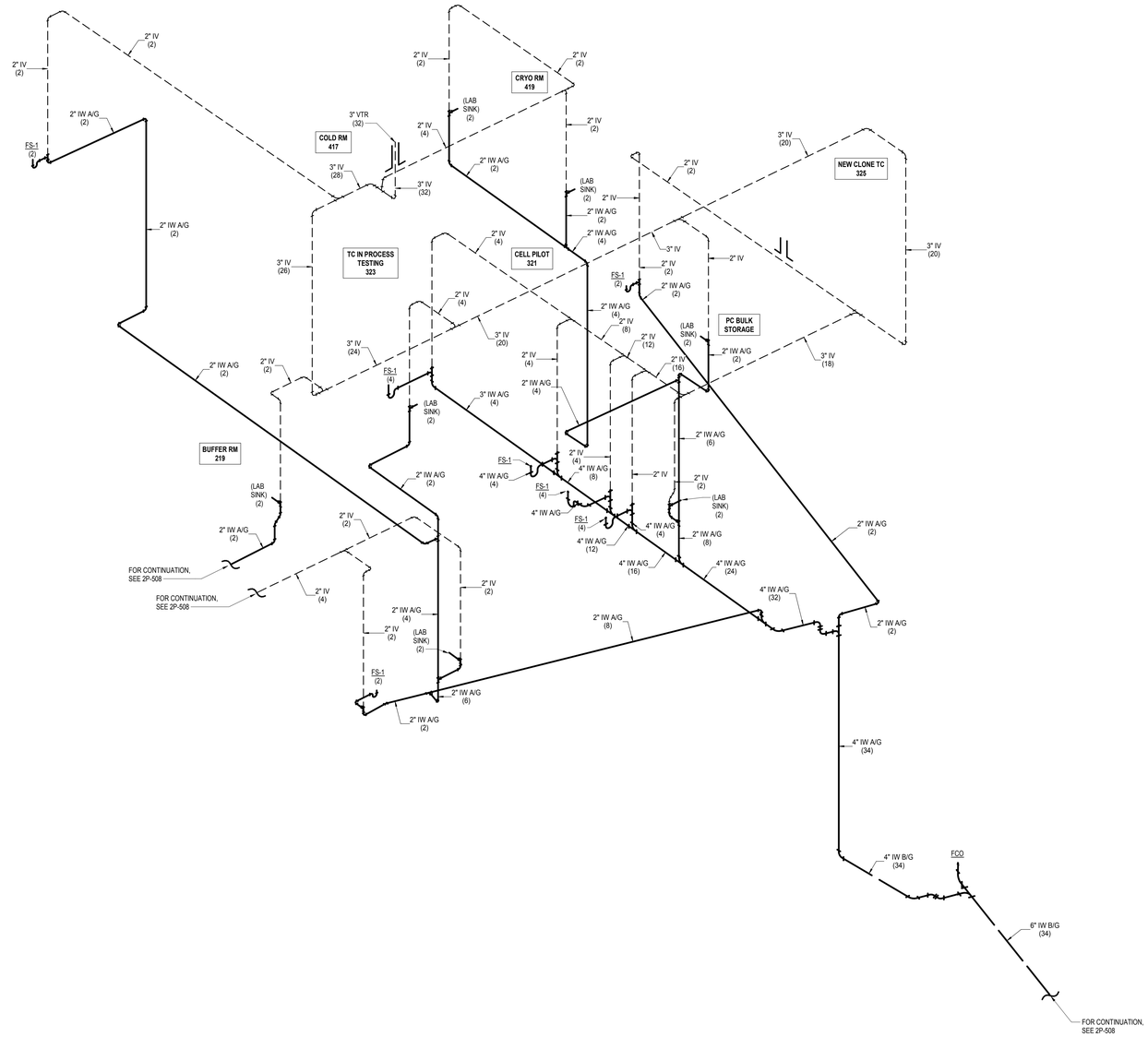

1	PLUMBING ISOMETRIC - IDWV - LABS - PART B2	

GENE THEORY
CP-2
VOLUME: 2

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CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING ISOMETRICS - LABS - IDWV

2.2

Sheet No.
2P-510

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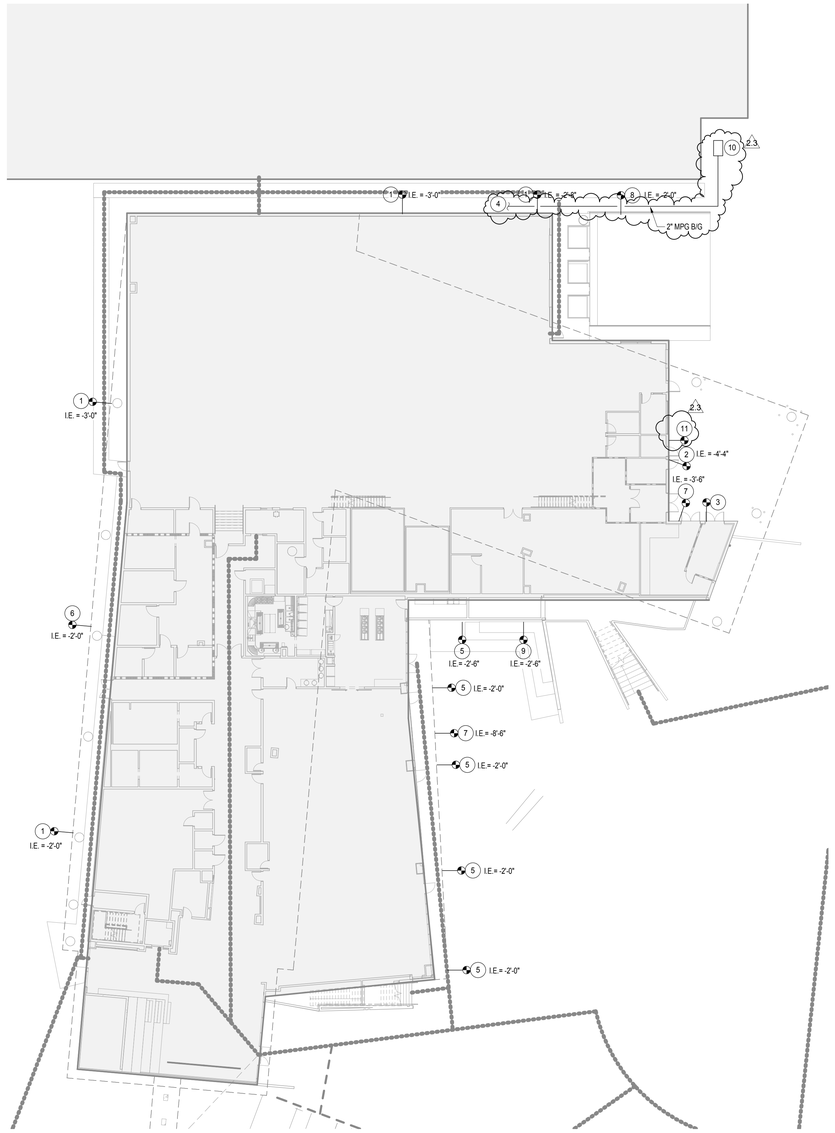

SHEET NOTES

1. 6" SD POC TO STORM DRAIN SYSTEM. FOR CONTINUATION REFER TO CIVIL DRAWINGS.
2. 6" WASTE TO SEWER LATERAL. PROVIDE TWO-WAY CLEAN OUT. FOR CONTINUATION REFER TO CIVIL DRAWINGS.
3. 4" CW POC TO POTABLE WATER LATERAL. FOR CONTINUATION REFER TO CIVIL DRAWINGS.
4. MEDIUM PRESSURE GAS TO BUILDING. SEE SHEET 2P-112 FOR CONTINUATION.
5. 4" SD POC TO STORM DRAIN SYSTEM. FOR CONTINUATION REFER TO CIVIL DRAWINGS.
6. 5" SD POC TO STORM DRAIN SYSTEM. FOR CONTINUATION REFER TO CIVIL DRAWINGS.
7. 4" WASTE TO SEWER LATERAL. PROVIDE TWO-WAY CLEANOUT. FOR CONTINUATION REFER TO CIVIL DRAWINGS.
8. 2" SD POC TO STORM DRAIN LATERAL. FOR CONTINUATION REFER TO CIVIL DRAWINGS.
9. 3" SD POC TO STORM DRAIN SYSTEM. FOR CONTINUATION REFER TO CIVIL DRAWINGS.
10. PROPOSED LOCATION FOR NEW GAS METER.
11. 6" FIRE SERVICE POC. FOR CONTINUATION REFER TO CIVIL DRAINGS. 2.3

GENERAL NOTES

1. XXX

1 PLUMBING OVERALL SITE PLAN

1" = 20'-0"

GENE THEORY
CP-2
VOLUME: 2

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CITY SUBMITTAL SET
08.08.17

Sheet Title
PLUMBING OVERALL SITE PLAN

Sheet No.
2PS-101

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

STRUCTURAL NOTES

O. STRUCTURAL STEEL:

1. STRUCTURAL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 22 OF THE BUILDING CODE, AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
2. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
3. FOR SPECIAL MOMENT FRAME STEEL REQUIREMENTS, SEE SHEET 2S-202.
4. STRUCTURAL STEEL STRENGTHS AND GRADES SHALL BE AS FOLLOWS, U.O.N.

DESCRIPTION	YIELD Fy,ksi	ASTM GRADE
WF AND WT SHAPES	50 ksi	A992, GR 50
OTHER ROLLED SHAPES	36 ksi	A36
RECTANGULAR HSS SECTIONS	46 ksi	A500, GR B/C
ROUND HSS SECTIONS	42 ksi	A500, GR B
STRUCTURAL PIPE SECTIONS	35 ksi	A53, GR B
PLATES IN FRAMES	50 ksi	A572, GR 50
BASE PLATES IN FRAMES GREATER THAN 4 INCHES	42 ksi	A521, GR 42
OTHER PLATES	36 ksi	A36

5. HOLLOW STRUCTURAL STEEL (HSS) MEMBERS SHALL BE SEAL WELDED IN DRY CONDITION IN THE SHOP. PROVIDE WEEP HOLES AT THE LOW END OF ALL HOLLOW MEMBERS IN EXTERIOR CONDITIONS, AND SEAL WELD AROUND ALL MATING SURFACES IN EXTERIOR CONDITIONS WHETHER COVERED OR OPEN. CONCEAL WELD SEAM FROM VIEW WHERE PRACTICAL.
6. ANCHOR RODS SHALL CONFORM TO ASTM F 1554, GRADE 36, UNLESS OTHERWISE NOTED. NUTS FOR ANCHOR RODS SHALL CONFORM TO ASTM A 563, GRADE A HEX (HEAVY HEX WHERE ANCHOR ROD DIAMETER IS GREATER THAN 1 1/2"].
7. MAIN MEMBERS SHALL HAVE HIGH STRENGTH BOLTS CONFORMING TO AISC SPECS FOR ASTM A 325N BOLTS, U.O.N. OTHER BOLTS SHALL CONFORM TO ASTM A 307. NUTS FOR HIGH STRENGTH BOLTS SHALL BE HEAVY HEX GRADE C CONFORMING TO ASTM A 563.
8. TIGHTEN ASTM A 325N BOLTS TO "SNUG-TIGHT" CONDITION PER AISC SPECIFICATION FOR STRUCTURAL JOINTS. TEST ASTM A 325SC BOLTS WITH A CALIBRATED WRENCH UNLESS LOAD INDICATOR BOLTS ARE USED.
9. EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 123, G60 U.O.N. GALVANIZED SURFACES DAMAGED BY SUBSEQUENT WELDING AND OTHER WORK SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A 780.
10. FIRE PROTECTION FOR STRUCTURAL STEEL SHALL BE AS REQUIRED BY CHAPTER 6 OF THE BUILDING CODE. SPRAY-APPLIED FIRE PROTECTION ON STRUCTURAL STEEL SHALL BE MONOKOTE MK6/HY AS MANUFACTURED BY SCP APPLIED TECHNOLOGIES, INC. (UL #ER 4994-02).
11. STEEL INDICATED AS "AESS" SHALL MEET THE REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL IN THE AISC CODE OF STANDARD PRACTICE.

P. STEEL STAIRS:

1. STEEL COMPONENTS SHALL COMPLY WITH THE APPLICABLE NOTES UNDER "STRUCTURAL STEEL."
2. WELDING SHALL COMPLY WITH THE APPLICABLE NOTES UNDER "WELDING."
3. POST-INSTALLED ANCHORS SHALL COMPLY WITH THE APPLICABLE NOTES UNDER "POST-INSTALLED MECHANICAL ANCHORS" OR "POST-INSTALLED ADHESIVE ANCHORS."
4. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
5. MEMBER SIZES INDICATED ARE THE MINIMUM SIZES THAT SHALL BE USED FOR CONSTRUCTION. MEMBER SIZES USED SHALL BE OF THE SAME NOMINAL SHAPE AND DIMENSION INDICATED.
6. VERTICAL AND HORIZONTAL DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS PRIOR TO FABRICATION. THE ARCHITECT SHALL BE NOTIFIED OF ANY FIELD CONDITIONS NOT COVERED BY THE CONTRACT DOCUMENTS PRIOR TO FABRICATION.
7. CONNECTIONS TO THE STRUCTURE SHALL INCLUDE STABILIZING ELEMENTS SUCH AS BRACES, STIFFENER PLATES, ETC., SO AS TO NOT IMPOSE ECCENTRIC LOADING, TWISTING, OR WARPING TO STRUCTURAL MEMBERS. PROVIDE MATERIAL AND INSTALL STABILIZING ELEMENTS. NECESSARY STABILIZING ELEMENTS SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER.

Q. STEEL STAIRS, (DEFERRED APPROVAL):

1. STEEL STAIRS SHALL BE DEFERRED APPROVAL EXCEPT WHERE SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. DEFERRED APPROVAL STEEL STAIRS SHALL COMPLY WITH ANY DETAILS PROVIDED. NOTES BELOW APPLY TO DEFERRED APPROVAL STEEL STAIRS ONLY.
2. DESIGN OF STAIRS, INCLUDING FRAMING MEMBERS, CONNECTIONS (INCLUDING THOSE TO BUILDING STRUCTURE), CHECKERED PLATES, STEPS, HANDRAILS, ETC., SHALL PROVIDE FOR LATERAL RESTRAINT AND COMPLY WITH THE CONTRACT DOCUMENTS AND THE BUILDING CODE.
3. CALCULATIONS SHALL CLEARLY IDENTIFY LOADS IMPOSED ON THE BUILDING STRUCTURE.
4. STEEL COMPONENTS SHALL COMPLY WITH THE APPLICABLE NOTES UNDER "STRUCTURAL STEEL."
5. WELDING SHALL COMPLY WITH THE APPLICABLE NOTES UNDER "WELDING."
6. POST-INSTALLED ANCHORS SHALL COMPLY WITH THE APPLICABLE NOTES UNDER "POST-INSTALLED MECHANICAL ANCHORS" OR "POST-INSTALLED ADHESIVE ANCHORS."
7. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
8. VERTICAL AND HORIZONTAL DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS PRIOR TO FABRICATION. THE ARCHITECT SHALL BE NOTIFIED OF ANY FIELD CONDITIONS NOT COVERED BY THE CONTRACT DOCUMENTS PRIOR TO FABRICATION.
9. CONNECTIONS TO THE STRUCTURE SHALL INCLUDE STABILIZING ELEMENTS SUCH AS BRACES, STIFFENER PLATES, ETC., SO AS TO NOT IMPOSE ECCENTRIC LOADING, TWISTING, OR WARPING TO STRUCTURAL MEMBERS. PROVIDE MATERIAL AND INSTALL STABILIZING ELEMENTS. NECESSARY STABILIZING ELEMENTS SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER.
15. CONCRETE FOR ELEVATED SLABS EXPOSED TO DIRECT RAINFALL SHALL CONTAIN FIBROUS FIBRILLATED POLYPROPYLENE REINFORCEMENT. FIBROUS FIBRILLATED POLYPROPYLENE CONCRETE REINFORCEMENT SHALL BE MANUFACTURED BY W.R. GRACE OR FIBERMESH COMPANY. ALTERNATE PRODUCTS SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO SUBMISSION OF THE MIX DESIGN. THE VOLUME PER CUBIC YARD SHALL BE A MINIMUM OF 0.1% (1.5 POUNDS). FIBERS SHALL BE DISPERSED UNIFORMLY THROUGHOUT THE CONCRETE IN ACCORDANCE WITH ASTM C1116.

L. CONCRETE SLAB-ON-GRADE:

1. CONSTRUCTION OR CONTROL JOINTS IN SLABS-ON-GRADE SHALL BE PROVIDED AS INDICATED. THE LOCATIONS OF JOINTS NOT SPECIFICALLY INDICATED SHALL BE REVIEWED BY THE ENGINEER AND APPROVED BY THE ARCHITECT. JOINTS SHALL ALIGN WITH RE-ENTRANT CORNERS OF THE SLAB.
2. THE CONCRETE SLAB-ON-GRADE THICKNESS SHOWN IS THE MINIMUM REQUIRED THICKNESS. FLOORS SHALL BE MONITORED BY TRANSIT LEVEL OR LASER DURING PLACEMENT TO MAINTAIN LEVEL FLOOR.

M. CONCRETE FILL OVER COLD-FORMED STEEL DECK:

1. CONDUIT, PIPES OR DUCTS SHALL NOT BE PLACED IN CONCRETE TOPPING FILL UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
2. THE CONCRETE TOPPING FILL THICKNESS SHOWN IS THE MINIMUM REQUIRED THICKNESS. FLOORS SHALL BE MONITORED BY TRANSIT LEVEL OR LASER DURING PLACEMENT TO MAINTAIN LEVEL FLOOR.
3. THE CONCRETE TOPPING SURFACE SHALL BE FINISHED SUCH THAT A GAP AT ANY POINT BETWEEN THE SURFACE AND AN UNLEVELED, FREESTANDING 10-FOOT LONG STRAIGHT EDGE DOES NOT EXCEED ¼ INCH WHEN THE STRAIGHT EDGE IS RESTING ON TWO HIGH POINTS.
4. IN FLOOR AREAS WHERE OCCUPANT PERCEPTION OR THE APPLICATION OF FINISHES DICTATES MORE STRINGENT PROFILES, A FLOOR-LEVELING AGENT MAY BE APPLIED (AVERAGE ALLOWABLE THICKNESS = ⅜ INCH; MAXIMUM ALLOWABLE LOCAL THICKNESS = 1½ INCHES).

N. REINFORCED CONCRETE MASONRY (CMU):

1. MASONRY CONSTRUCTION SHALL CONFORM TO CHAPTER 21 OF THE BUILDING CODE AND ACI 530.1.
2. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
3. CONCRETE MASONRY CONSTRUCTION SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF f'm= 2,000 psi, U.O.N.
4. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90, MEDIUM WEIGHT, SINGLE OPEN-END UNITS, U.O.N.
5. MORTAR SHALL CONFORM TO ASTM C 270, TYPE "S".
6. GROUT SHALL CONFORM TO ASTM C 476. GROUT MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE ENGINEER.
7. ADMIXTURES IN GROUT SHALL BE APPROVED IN ADVANCE. ADMIXTURES CONTAINING CHLORIDE OR CHLORIDE SALTS SHALL NOT BE USED EXCEPT WHERE APPROVED IN WRITING BY THE ENGINEER.
8. STRENGTH VERIFICATION OF MASONRY SHALL BE BY THE UNIT STRENGTH METHOD IN ACCORDANCE WITH ACI 530.1, SECTION 1.4B.2.b. WHERE THE UNIT STRENGTH METHOD IS USED, MASONRY COMPONENTS SHALL HAVE THE FOLLOWING STRENGTHS:

MINIMUM COMPRESSIVE STRENGTH	f'm = 2,000 psi	f'm = 3,000 psi
MASONRY UNITS	2,000 psi	4,500 psi
GROUT	2,000 psi	3,000 psi

9. ALTERNATIVELY, STRENGTH VERIFICATION OF MASONRY PRIOR TO AND DURING CONSTRUCTION MAY BE BY THE PRISM TEST METHOD IN ACCORDANCE WITH ACI 530.1, SECTION 1.4B.3. WHERE THE PRISM TEST METHOD IS USED, MASONRY COMPONENTS SHALL BE OF SUFFICIENT STRENGTH SUCH THAT THE COMPLETED MASONRY NOW MEETS THE SPECIFIED MINIMUM COMPRESSIVE STRENGTH.
10. VERTICAL BARS IN WALLS SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS OTHERWISE INDICATED. VERTICAL BARS SHALL BE TIED OR OTHERWISE FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERVALS OF NOT MORE THAN 200 BAR DIAMETERS.
11. HORIZONTAL BARS SHALL BE PLACED IN BOND BEAM UNITS.
12. CONDUITS OR PIPES SHALL NOT OCCUR IN SAME CELL AS REINFORCING BARS.
13. MASONRY UNITS SHALL BE PLACED IN A RUNNING BOND PATTERN, U.O.N.
14. CONSTRUCTION OR CONTROL JOINTS IN CONCRETE MASONRY SHALL BE PROVIDED AS INDICATED. THE LOCATIONS OF JOINTS NOT SPECIFICALLY INDICATED SHALL BE REVIEWED BY THE ENGINEER AND APPROVED BY THE ARCHITECT.
15. MASONRY CELLS SHALL BE SOLID GROUTED, U.O.N.
16. A GROUT POUR SHALL BE THE TOTAL HEIGHT OF MASONRY THAT IS GROUTED PRIOR TO THE ERECTION OF ADDITIONAL MASONRY. A GROUT POUR SHALL NOT EXCEED THE HEIGHT LIMITS GIVEN IN ACI 530.1, TABLE 7 AND MAY CONSIST OF ONE OR MORE GROUT LIFTS.
17. A GROUT LIFT SHALL BE THE HEIGHT OF GROUT THAT IS PLACED IN A SINGLE, CONTINUOUS OPERATION BEFORE CONSOLIDATION OF GROUT. GROUT LIFTS SHALL NOT EXCEED 5'-4" IN HEIGHT UNLESS THE FOLLOWING CONDITIONS ARE MET:
    A. MASONRY IS ALLOWED TO CURE FOR A MINIMUM OF 4 HOURS PRIOR TO GROUTING
    B. GROUT SLUMP IS MAINTAINED BETWEEN 10 AND 11 INCHES AS VERIFIED BY TESTING
    C. LIFTS ARE LIMITED TO A HEIGHT BETWEEN HORIZONTAL BOND BEAMS, OR A MAXIMUM OF 12'-8".
18. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION. WHERE LIFTS EXCEED 12 INCHES, GROUT SHALL BE RE-CONSOLIDATED BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT.
19. INSPECTION AND CLEAN OUT HOLES SHALL BE PROVIDED AT THE BASE OF GROUTED CELLS WHERE A GROUT POUR EXCEEDS 5'-4" IN HEIGHT. HOLE SPACING SHALL NOT EXCEED 32 INCHES ON CENTER.
20. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT FOUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
11. #9 SPACER TIES SHALL BE INSTALLED AT 30" ON CENTER IN BEAMS AND FOOTINGS TO SECURE REINFORCING BARS IN PLACE, U.O.N.
12. REINFORCEMENT SUPPORTS SHALL BE MANUFACTURED OF NONCORROSIVE MATERIAL

J. REINFORCED CONCRETE - GENERAL:

1. CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE BUILDING CODE AND TO THE PROVISIONS OF ACI 318.
2. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
3. WATER MAY BE ADDED TO CONCRETE ON-SITE TO OBTAIN SPECIFIED SLUMPS PROVIDED THAT IT IS ADDED WITHIN ONE HOUR OF BATCHING AND SITE-ADDED WATER IS SPECIFIED ON THE BATCH REPORT. SITE-ADDED WATER SHALL NOT COMPROMISE THE STRENGTH OR SLUMP OF THE CONCRETE.
4. CONCRETE SHALL NOT BE PLACED BEYOND 1-1/2 HOURS FOLLOWING BATCHING.
5. PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER U.O.N.
6. CONSTRUCTION JOINTS IN STRUCTURAL MEMBERS THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. LONGITUDINAL REINFORCEMENT SHALL CONTINUE UNINTERRUPTED THROUGH CONSTRUCTION JOINTS. KEYWAYS SHALL BE PROVIDED PERPENDICULAR TO THE DIRECTION OF LOAD IN CONSTRUCTION JOINTS.
7. WHERE CONCRETE IS PLACED AGAINST EXISTING CONCRETE SURFACES, THE EXISTING CONCRETE SURFACES SHALL BE THOROUGHLY CLEANED AND ROUGHENED TO A MINIMUM AMPLITUDE OF ¼-INCH. A CONCRETE BONDING AGENT SHALL BE APPLIED TO THE EXISTING CONCRETE SURFACE.
8. CONDUIT, PIPES OR DUCTS SHALL NOT BE PLACED IN CONCRETE COLUMNS, WALLS OR SLABS OR UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER. SLEEVES FOR OPENINGS IN CONCRETE SHALL BE INSTALLED BEFORE PLACING. REINFORCING WHICH MAY CONFLICT SHALL NOT BE CUT UNLESS APPROVED IN WRITING BY THE ENGINEER.
9. FORMWORK FOR COLUMNS SHALL NOT BE REMOVED UNTIL THE COLUMN CONCRETE HAS REACHED A MINIMUM STRENGTH OF 1500 PSI.
10. FORMWORK FOR SLABS SHALL NOT BE REMOVED UNTIL SLAB CONCRETE HAS REACHED A MINIMUM OF 75% OF THE SPECIFIED STRENGTH. SLABS SHALL BE RESHORED IMMEDIATELY AFTER FORMWORK REMOVAL UNTIL CONCRETE HAS REACHED DESIGN STRENGTH AND RE-SHORES ARE NO LONGER REQUIRED TO CARRY CONSTRUCTION LOADS ABOVE. THE SHORING REMOVAL AND RESHORING PROCEDURE SHALL BE DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS OF ACI 347.2R. ALTERNATE DESIGN PROCEDURES SHALL DEMONSTRATE A MINIMUM HISTORY OF 10 YEARS OF SUCCESSFUL USE AND SHALL BE APPROVED FOR USE BY THE ENGINEER IN WRITING PRIOR TO SUBMITTAL.
11. CONCRETE COLUMNS SHALL ACHIEVE A MINIMUM OF 75 PERCENT OF THE DESIGN STRENGTH INDICATED PRIOR TO POURING ELEVATED CONCRETE SLABS.
12. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER ITS PLACEMENT. APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING.

K. CONCRETE MIX REQUIREMENTS:

RFI 2-00065 Concrete Mix Design for Walls

1. READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C 94.
2. CEMENT SHALL CONFORM TO ASTM C 150 TYPE I OR II, LOW ALKALI.
3. FLYASH SHALL CONFORM TO ASTM C 618, CLASS F. FLYASH SHALL BE LIMITED TO NO MORE THAN THE FOLLOWING PERCENTAGES OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS IN THE CONCRETE, U.O.N.

SUSPENDED SLABS, BEAMS AND GIRDERS	15%
COLUMNS AND WALLS	20%
FOUNDATIONS	20%
SLABS ON GRADE	20%

4. CEMENT FOR SHRINKAGE-COMPENSATING CONCRETE SHALL CONFORM TO ASTM C 845. ALTERNATIVELY, WHEN APPROVED IN WRITING BY THE ENGINEER, SHRINKAGE COMPENSATING CONCRETE MAY BE ACHIEVED BY USE OF A SHRINKAGE-REDUCING CHEMICAL ADMIXTURE.
5. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C 33.
6. NORMAL WEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY DENSITY OF 150 pcf.
7. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL BE EXPANDED SHALE TYPE AND CONFORM TO ASTM C 330.
8. LIGHT-WEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY DENSITY OF 115 pcf.
9. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE ENGINEER. MIX DESIGN IN ACCORDANCE WITH ACI 301, ARTICLE 4.2.3 SHALL BE USED TO PROPORTION CONCRETE.
10. MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS, MAXIMUM SLUMPS, AND MAXIMUM WATER/CEMENT RATIOS SHALL BE AS FOLLOWS:

DESCRIPTION	MIN 28 DAY F'c	SLUMP	MAX W/C RATIO
2.3 SHALLOW FOUNDATIONS, CAST-IN-PLACE DEEP FOUNDATIONS	4.0 KSI	4" +/- 1"	0.52
SLAB ON GRADE	3.5 KSI	4" +/- 1"	0.45
CONC. COLUMNS	5.0 KSI	4" +/- 1"	0.45
ELEVATED SLABS	5.0 KSI	4" +/- 1"	0.45
LIGHT WEIGHT FILL ON COLD-FORMED STEEL DECK	4.0 KSI	4" +/- 1"	0.48
NORMAL WEIGHT FILL ON COLD-FORMED STEEL DECK	4.0 KSI	4" +/- 1"	0.48
OTHER CONCRETE	3.5 KSI	4" +/- 1"	0.50

11. ADMIXTURES SHALL BE APPROVED IN ADVANCE. ADMIXTURES CONTAINING CHLORIDE OR CHLORIDE SALTS SHALL NOT BE USED EXCEPT WHERE APPROVED IN WRITING BY THE ENGINEER.
12. SLUMPS INDICATED ARE PRIOR TO PLASTICIZER ADDITIVES.
13. DRYING SHRINKAGE OF CONCRETE IN ELEVATED SLABS, AND COLUMNS SHALL BE LIMITED TO 0.05 PERCENT AS VERIFIED BY TEST IN ACCORDANCE WITH ASTM C 157. THE PROCEDURES OF ASTM C 157 SHALL BE MODIFIED AS FOLLOWS (BASED ON SEAOC SUPPLEMENTARY RECOMMENDATIONS):
    A. THE CURING PERIOD SHALL BE 7 DAYS.
    B. FOLLOWING CURING, SPECIMENS SHALL BE AIR-STORED.
    C. COMPARATIVE MEASUREMENTS OF SPECIMENS SHALL BE MADE AFTER 4, 7, 14, 21 AND 28 DAYS OF AIR-STORAGE.
14. CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.

G. FOUNDATION:

1. THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL INVESTIGATION REPORT SHALL BE FOLLOWED:

BY:	CONSTRUCTION TESTING & ENGINEERING, INC
DATED:	DECEMBER 8, 2016
PROJECT NO:	10-139416

2. DEVIATIONS IN GEOTECHNICAL CONDITIONS FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE STRUCTURAL AND GEOTECHNICAL ENGINEERS IN A TIMELY MANNER.
3. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
4. RAMMED AGGREGATE PIER SYSTEM IS TO BE INSTALLED AT THE BUILDING FOUNDATIONS WHERE REQUIRED IN ACCORDANCE TO THE GEOTECHNICAL RECOMMENDATIONS.
5. THE MAXIMUM ALLOWABLE SOIL BEARING PRESSURE SHALL BE 7000 psf ON FORMATIONAL MATERIAL OR WHERE RAMMED AGGREGATE PIER SYSTEM HAS BEEN INSTALLED. AT OTHER LOCATIONS, THE MAXIMUM SOIL BEARING PRESSURE SHALL BE 3,000 psf. THE RESULTING ALLOWABLE BEARING VALUE MAY BE INCREASED BY 1/3 FOR WIND AND SEISMIC LOAD CASES.
6. THE EXPANSION INDEX HAS BEEN DETERMINED TO BE 50 OR LESS AND NO SPECIAL DESIGN RECOMMENDATIONS ARE REQUIRED.
7. FOOTING AND UTILITY TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED IN LAYERS SUBJECT TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED.
8. LOOSE SOIL AND FILL MATERIAL SHALL BE COMPACTED ACCORDING TO THE REQUIREMENTS OF THE SOILS REPORT.
9. COMPACTION TEST REPORTS FOR FILL BY A QUALIFIED TESTING LAB SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER, GEOTECHNICAL ENGINEER AND BUILDING OFFICIAL PRIOR TO REQUESTING FOUNDATION INSPECTION.
10. FOOTING DEPTHS INDICATED ON THE STRUCTURAL DRAWINGS ARE BELIEVED TO BE IN SUITABLE BEARING MATERIALS AND ARE INDICATED FOR COST ESTIMATING PURPOSES ONLY. THE GEOTECHNICAL ENGINEER MAY REQUIRE FOUNDATION DEPTHS TO BE INCREASED. THE RESPONSIBILITY FOR CONFORMING TO THE GEOTECHNICAL REPORT RECOMMENDATIONS REGARDING DEPTH OF FOOTINGS SHALL BEAR ON THE CONTRACTOR.
11. FOOTING ELEVATIONS SHALL BE LOCATED SUCH THAT THEIR BEARING IS A MINIMUM HORIZONTAL DISTANCE OF 12 FEET FROM THE DAYLIGHT OF AN ADJACENT SLOPE OR AS RECOMMENDED WITHIN THE GEOTECHNICAL REPORT.
12. ANCHOR BOLTS, DOWELS AND HOLD-DOWN ANCHORS SHALL BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION.
13. WALLS RETAINING EARTH SHALL BE DRAINED AND BACKFILLED ACCORDING TO THE RECOMMENDATIONS WITHIN THE GEOTECHNICAL REPORT.
14. BACKFILLING BEHIND RETAINING WALLS SHALL NOT BEGIN UNTIL WALLS HAVE BEEN CURED FOR A MINIMUM OF 14 DAYS.
15. SLABS ON GRADE THAT RESTRAIN THE BOTTOM OF RETAINING WALLS SHALL BE IN PLACE PRIOR TO BACKFILLING OF THE WALLS.

H. WELDING:

1. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY (AWS) D1.1. ELECTRODE FILLER MATERIAL SHALL BE A MINIMUM OF E70XX U.O.N
2. WELDING OF COLD-FORMED STEEL DECK AND COLD-FORMED FRAMING SHALL BE PERFORMED BY WELDERS CERTIFIED FOR SHEET STEEL IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY (AWS) D1.3. E60XX ELECTRODES SHALL BE USED FOR WELDING OF COLD-FORMED STEEL DECK AND COLD-FORMED FRAMING.
3. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
4. WELDING ELECTRODES FOR THE SHIELDED METAL-ARC WELDING (S.M.A.W.) PROCESS AND WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 "SPECIFICATION FOR CARBON STEEL ELECTRODES FOR SHIELDED METAL ARC WELDING."
5. WELDING ELECTRODES FOR THE FLUX CORED ARC WELDING (F.C.A.W.) PROCESS AND WELDING ELECTRODES SHALL CONFORM TO AWS A5.20 "SPECIFICATION FOR CARBON STEEL ELECTRODES FOR FLUX CORED ARC WELDING."
6. WELDS SHALL HAVE A WELD CONTROLLED SEQUENCE AND TECHNIQUE IN ORDER TO MINIMIZE SHRINKAGE STRESSES AND DISTORTION.
7. FOR SPECIAL STEEL MOMENT RESISTING FRAME WELDING REQUIREMENTS, SEE SHEET 2S-202.

I. REINFORCING STEEL:

1. DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS SHALL BE PREFORMED IN ACCORDANCE WITH ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
2. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
3. REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 60, U.O.N.
4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185. MINIMUM LAP OF WWF SHALL BE ONE FULL MESH + 2".
5. REINFORCING BAR LAP SPLICES SHALL BE: CLASS B. (18" MIN.) FOR CONCRETE, U.O.N. 65 BAR DIA. (24" MIN.) FOR MASONRY, U.O.N.
6. DETAILS OF REINFORCEMENT SHALL COMPLY WITH ACI 318, CHAPTER 7.
7. WHERE HOOKS ARE ILLUSTRATED AS 90-DEGREE HOOKS, 180-DEGREE HOOKS MAY BE USED IN LIEU OF 90-DEGREE HOOKS.
8. REINFORCING BARS FOR CONCRETE SHALL BE PROVIDED WITH THE FOLLOWING MINIMUM COVER:

CONC. CAST AGAINST EARTH	3"
FORMED CONC. EXPOSED TO EARTH/ WEATHER	
#5 OR SMALLER	1-1/2"
#6 OR LARGER	2"
SLABS (#11 AND SMALLER)	3/4"
COLUMN TIES	1-1/2"

9. VERTICAL WALL BARS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL, U.O.N., AND SHALL BE TIED IN PLACE AT THE TOP AND BOTTOM.
10. WHERE CONVENTIONAL STIRRUPS, TIES, HOOPS OR CROSS-TIES ARE ILLUSTRATED, MACHINE-PRESSEMBLED, RESISTANCE-WELDED TRANSVERSE REINFORCEMENT MAY BE SUBSTITUTED, PROVIDED THAT:
    A. THE RESULTING CONFIGURATION PROVIDES FOR PROPER CONSOLIDATION OF CONCRETE.
    B. ASTM A 706 REINFORCING IS USED FOR TRANSVERSE REINFORCING, AND
    C. ¼ INCH ASSEMBLY WIRES ARE USED, CONFORMING TO ASTM A98.

D. SUBMITTALS:

1. THE CONTRACTOR SHALL MAKE SUBMITTALS PRIOR TO FABRICATION AS REQUIRED BY THE WRITTEN SPECIFICATIONS AND SHALL INCLUDE AS A MINIMUM THE FOLLOWING SUBMITTALS:
    A. CONCRETE MIX DESIGNS.
    B. REINFORCING STEEL DRAWINGS.
    C. CONTROL JOINT/CONSTRUCTION JOINT LOCATIONS.
    D. PENETRATIONS THOUGH STRUCTURAL MEMBERS, INCLUDING SIZES AND LOCATIONS OF SLEEVES, FOR THE FIRE SUPPRESSION SYSTEM (AND OTHER UTILITY SYSTEMS).
    E. MASONRY GROUT MIX DESIGNS
    F. MASONRY UNIT CERTIFICATES
    G. STRUCTURAL STEEL DRAWINGS
    H. STEEL STAIRS DRAWINGS.
    I. DEFERRED APPROVAL STEEL STAIRS DRAWINGS AND CALCULATIONS (SIGNED BY A CALIFORNIA-REGISTERED CIVIL ENGINEER).
    J. COLD-FORMED STEEL DECK DRAWINGS.
    K. DEFERRED APPROVAL COLD-FORMED STEEL FRAMING DRAWINGS AND CALCULATIONS (SIGNED BY A CALIFORNIA-REGISTERED CIVIL ENGINEER).
    L. WELDING PROCEDURES (SHOP AND FIELD WELDING).
    M. GLAZED CURTAIN WALL DRAWINGS AND CALCULATIONS (SIGNED BY A CALIFORNIA-REGISTERED CIVIL ENGINEER).
    N. MANUFACTURER'S CERTIFICATES OF COMPLIANCE FOR DESIGNATED SEISMIC EQUIPMENT SYSTEMS IN ACCORDANCE WITH SECTION 1708.5 OF THE BUILDING CODE, PRIOR TO INSTALLATION.
2. THE FOLLOWING SUBMITTALS ARE NOT REQUIRED FOR STRUCTURAL REVIEW:
    A. SHORING AND BRACING.
    B. PICK-UP INSERTS.
    C. WINDOW WALL LOADS.
    D. UNSPLICED REBAR AT SLAB-ON-GRADE AND FOOTINGS
    E. FORMWORK.
    F. STRUCTURAL STEEL MILL REPORTS.
    G. WELDER CERTIFICATIONS
    H. WWF FOR CONCRETE OVER STEEL DECK.
3. STEEL REINFORCING LISTS AND QUANTITIES AND LENGTHS OF ALL MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE COMPLIANCE WITH THE PLANS. ENGINEER WILL NOT REVIEW.
4. SUBMITTALS MADE TO THE ENGINEER FOR REVIEW SHALL BE STAMPED AND SIGNED BY THE CONTRACTOR INDICATING

POST-INSTALLED ANCHORS			
INSTALLATION OF MECHANICAL ANCHORS		X	FOOTNOTE 10
INSTALLATION OF SCREW ANCHORS		X	FOOTNOTE 10
JOBSITE STORAGE OF ADHESIVE PRIOR TO INSTALLATION FOR CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS		X	FOOTNOTE 10
INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTALLY OR UPWARDLY-INCLINED ORIENTATIONS	X		FOOTNOTE 10
INSTALLATION OF ADHESIVE ANCHORS IN DOWNWARD VERTICAL ORIENTATIONS		X	FOOTNOTE 10

PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS			
THE FOLLOWING SYSTEMS ARE DESIGNATED SEISMIC SYSTEMS AS DEFINED IN SECTION 202 OF THE BUILDING CODE. REQUIRED CERTIFICATION AND INSPECTIONS APPLY TO EACH OF THESE SYSTEMS:			
A. FIRE SUPPRESSION SYSTEMS		X	
B. EMERGENCY OR STANDBY POWER SYSTEMS		X	
B. OTHER ELECTRICAL SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY E OR F		X	
C. PIPING SYSTEMS INTENDED TO CARRY FLAMMABLE, COMBUSTIBLE OR HIGHLY TOXIC CONTENTS		X	
D. EQUIPMENT AND DUCTWORK CONTAINING HAZARDOUS MATERIALS		X	
E. VIBRATION ISOLATION SYSTEMS WHERE THE REQUIRED CLEARANCE BETWEEN EQUIPMENT SUPPORT FRAME AND RESTRAINT IS ¼ INCH OR LESS		X	
MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR TESTING, ANALYSIS OR EXPERIENCE OF COMPONENTS, MOUNTING SYSTEMS OR ANCHORAGE		X	
INSTALLED EQUIPMENT LABEL AND ANCHORAGE (OR MOUNTING) CONFORMS TO MANUFACTURER'S CERTIFICATE OF COMPLIANCE		X	

OTHER NON-STRUCTURAL COMPONENTS			
WELDING AT THE BASE OF CANTILEVERED STEEL RAILING SYSTEMS AS SPECIFIED ABOVE FOR "WELDING OF STRUCTURAL STEEL" REQUIRED FOR REMAINDER OF RAIL SYSTEM (WELDS)			FOOTNOTE 7
ANCHORAGE OF STORAGE RACKS, 8 FEET IN HEIGHT OR TALLER		X	FOOTNOTE 11
ERECTION AND FASTENING OF EXTERIOR CURTAINWALL SYSTEMS EXCEEDING 30 FT ABOVE ADJACENT GRADE		X	FOOTNOTE 11
ERECTION AND FASTENING OF EXTERIOR CLADDING OR VENEER WEIGHING MORE THAN 5 PSF AND EXCEEDING 30 FT ABOVE ADJACENT GRADE		X	FOOTNOTE 11
ERECTION AND FASTENING OF INTERIOR PARTITION SYSTEMS WEIGHING MORE THAN 15 PSF AND EXCEEDING 30 FEET IN HEIGHT		X	FOOTNOTE 11
ATTACHMENT OF ROOF COVERING (WHERE WIND EXPOSURE CATEGORY IS C OR D)		X	
ATTACHMENT OF EXTERIOR WALL COVERING (WHERE WIND EXPOSURE CATEGORY IS C OR D)		X	
ACOUSTICAL CEILING SUSPENSION ASSEMBLIES			IGG EDR-1905

FIRE RESISTANCE			
SPRAY-APPLIED FIRE PROTECTION MATERIALS IN ACCORDANCE WITH SECTION 1705.16 OF THE BUILDING CODE AND UL HER 4839-02		X	
FIRE-RESISTANT MASTIC AND INTUMESCENT COATINGS IN ACCORDANCE WITH SECTION 1705.15 OF THE BUILDING CODE		X	
FIRE-RESISTANT PENETRATION FIRESTOPS IN ACCORDANCE WITH SECTION 1705.17 OF THE BUILDING CODE		X	
FIRE-RESISTANT JOINT SYSTEMS IN ACCORDANCE WITH SECTION 1705.17 OF THE BUILDING CODE		X	

2.3

FOOTNOTES FOR STATEMENT OF SPECIAL INSPECTIONS:

1. AT TIME OF ELEMENT DRILLING, RECORD THE FOLLOWING:
   A. ELEMENT DIAMETER
   B. BELL DIAMETER (IF APPLICABLE)
   C. ELEMENT LENGTH AND EMBEDMENT INTO FORMATIONAL MATERIAL (IF APPLICABLE)
   D. DETERMINE ADEQUATE END BEARING STRATA TO ACHIEVE DESIGN CAPACITY
2. AT TIME OF CONCRETE SAMPLING:
   A. FABRICATE SPECIMENS FOR STRENGTH TESTS
   B. FABRICATE SPECIMENS FOR DRYING SHRINKAGE TESTS WHERE REQUIRED
   C. PERFORM SLUMP AND AIR CONTENT TESTS
   D. DETERMINE CONCRETE TEMPERATURE
3. TEST SPECIMENS SHALL BE MADE FOR EACH SEPARATE CONCRETE MIX USED. AS A MINIMUM SPECIMENS SHALL BE TAKEN FOR EACH 150 CUBIC YARDS, OR PORTION THEREOF AND SHALL BE TAKEN AT LEAST ONCE PER DAY.
4. AT THE BEGINNING OF MASONRY CONSTRUCTION, INSPECT THE FOLLOWING:
   A. TYPE AND GRADE OF MASONRY UNITS
   B. PROPORTIONS OF SITE-PREPARED MORTAR
   C. CONSTRUCTION OF MORTAR JOINTS
   D. SIZE, GRADE, TYPE AND LOCATION OF REINFORCING STEEL, CONNECTIONS AND ANCHORAGES
5. DURING THE COURSE OF MASONRY CONSTRUCTION, INSPECT THE FOLLOWING:
   A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS
   B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS AND OTHER CONSTRUCTION
   C. SIZE, GRADE, TYPE AND LOCATION OF REINFORCING STEEL
   D. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (BELOW 40° F) OR HOT WEATHER (ABOVE 90° F)
6. PRIOR TO GROUTING, INSPECT THE FOLLOWING:
   A. GROUT SPACE IS CLEAN
   B. PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHORAGES
   C. PROPORTIONS OF SITE-PREPARED GROUT
   D. CONSTRUCTION OF MORTAR JOINTS
7. SEE REFERENCED SECTION AND / OR TABLE IN AISC 360 FOR INSPECTION PROCEDURES NOTED AS OBSERVE (O), OR PERFORM (P).
8. SEE REFERENCED SECTION AND / OR TABLE IN AISC 341 FOR INSPECTION PROCEDURES NOTED AS OBSERVE (O), PERFORM (P) OR DOCUMENT (D).
9. SEE REFERENCED TABLE IN THE SDI QA/QC STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK FOR INSPECTION PROCEDURES NOTED AS OBSERVE (O), OR PERFORM (P).
10. SPECIAL INSPECTION FOR POST-INSTALLED ANCHORS SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED IN THE EVALUATION APPROVAL FOR THE SPECIFIC PRODUCT.
11. VERIFICATION OF OTHER NON-STRUCTURAL COMPONENTS SHALL BE SATISFIED BY ONE OF THE FOLLOWING METHODS:
    A. SPECIAL INSPECTION AND TESTING OF COMPONENTS AND CONNECTIONS AS SPECIFIED WITHIN THIS STATEMENT OF SPECIAL INSPECTIONS AND TESTING.
    B. FOR PROPRIETARY COMPONENTS OR SYSTEMS, SUBMITTAL OF THE MANUFACTURER'S CERTIFICATION THAT THE COMPONENT OR SYSTEM IS SEISMICALLY QUALIFIED BY (A) ANALYSIS, (B) TESTING, OR (C) EXPERIENCE DATA IN ACCORDANCE WITH ASCE 7 SECTION 13.2.1.

CONCRETE			
SHAPE, LOCATION AND DIMENSION OF CONCRETE FORMWORK PRIOR TO PLACEMENT OF REINFORCING		X	
REINFORCING STEEL MATERIAL		X	
PLACEMENT OF REINFORCING STEEL PRIOR TO CLOSING OF FORMS OR DELIVERY OF CONCRETE		X	
PLACEMENT OF CAST-IN ANCHORS PRIOR TO CLOSING OF FORMS OR DELIVERY OF CONCRETE		X	
PLACEMENT OF CAST-IN STEEL ASSEMBLIES FOR STRUCTURAL CONNECTIONS PRIOR TO CLOSING OF FORMS OR DELIVERY OF CONCRETE		X	
CONCRETE MIX VERIFICATION AT TIME OF DELIVERY		X	
SAMPLING OF FRESH CONCRETE	X		FOOTNOTES 2 & 3
TESTING OF CONCRETE STRENGTH FOR CONFORMANCE WITH THE CONSTRUCTION DRAWING REQUIREMENTS		X	FOOTNOTES 2 & 3
TESTING OF CONCRETE DRYING SHRINKAGE FOR CONFORMANCE WITH THE CONSTRUCTION DRAWING REQUIREMENTS		X	FOOTNOTES 2 & 3
APPLICATION TECHNIQUES OF CONCRETE PLACEMENT	X		
MAINTENANCE OF REQUIRED CURING TEMPERATURE AND TECHNIQUES		X	
MEASUREMENT OF CONCRETE SURFACE PROFILE (FLATNESS AND LEVELNESS) IN ACCORDANCE WITH ASTM E 1155		X	

MASONRY (ACI 530 LEVEL B QUALITY ASSURANCE)			
CERTIFICATES OF MATERIALS COMPLIANCE PRIOR TO THE START OF WORK		X	
MASONRY CONSTRUCTION AT THE START OF WORK		X	FOOTNOTE 4
REINFORCING STEEL MATERIAL		X	
PLACEMENT OF REINFORCING STEEL PRIOR TO DELIVERY OF GROUT		X	
PLACEMENT OF CAST-IN ANCHORS PRIOR TO DELIVERY OF GROUT		X	
PLACEMENT OF CAST-IN STEEL ASSEMBLIES FOR STRUCTURAL CONNECTIONS PRIOR TO DELIVERY OF GROUT		X	
MASONRY CONSTRUCTION DURING COURSE OF WORK		X	FOOTNOTE 5
MASONRY CONSTRUCTION PRIOR TO GROUTING		X	FOOTNOTE 6
GROUT PLACEMENT	X		
GROUT SLUMP DURING GROUT PLACEMENT (IF LIFTS GREATER THAN 5'-0" ARE USED)	X		
PREPARATION OF GROUT SPECIMENS DURING CONSTRUCTION (IF USING UNIT STRENGTH METHOD)		X	
TESTING OF GROUT STRENGTH DURING CONSTRUCTION (IF USING UNIT STRENGTH METHOD)		X	

STRUCTURAL STEEL			
STRUCTURAL STEEL MATERIAL		X	
ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL IN ACCORDANCE WITH AISC 360, SECTION N5.7		X	
STRUCTURAL STEEL FRAMING, BRACING AND CONNECTIONS CONFIGURATION IN ACCORDANCE WITH AISC 360, SECTION N5.1		X	
REDUCED BEAM SECTIONS OF SPECIAL MOMENT FRAMES IN ACCORDANCE WITH AISC 341, SECTION J3 AND TABLE J3-1		X	
PROTECTED ZONES IN ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM IN ACCORDANCE WITH AISC 341, SECTION J3 AND TABLE J3-1		X	
STRUCTURAL STEEL CONNECTIONS AT SPECIAL MOMENT RESISTING FRAMES			SHEET 2S-202

WELDING OF STRUCTURAL STEEL			
QUALITY ASSURANCE INSPECTIONS PRIOR TO WELDING IN ACCORDANCE WITH AISC 360, SECTION N5.4 AND TABLE N5.4-1			FOOTNOTE 7
QUALITY ASSURANCE INSPECTIONS DURING WELDING IN ACCORDANCE WITH AISC 360, SECTION N5.4 AND TABLE N5.4-2			FOOTNOTE 7
QUALITY ASSURANCE INSPECTIONS AFTER WELDING IN ACCORDANCE WITH AISC 360, SECTION N5.4 AND TABLE N5.4-3			FOOTNOTE 7
NONDESTRUCTIVE TESTING AFTER WELDING IN ACCORDANCE WITH AISC 360, SECTION N5.5			FOOTNOTE 7
QUALITY ASSURANCE INSPECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM PRIOR TO WELDING IN ACCORDANCE WITH AISC 341, SECTION J6.1 AND TABLE J6-1			FOOTNOTE 8
QUALITY ASSURANCE INSPECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM DURING WELDING IN ACCORDANCE WITH AISC 341, SECTION J6.1 AND TABLE J6-2			FOOTNOTE 8
QUALITY ASSURANCE INSPECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM AFTER WELDING IN ACCORDANCE WITH AISC 341, SECTION J6.1 AND TABLE J6-3			FOOTNOTE 8
NONDESTRUCTIVE TESTING OF THE SEISMIC FORCE RESISTING SYSTEM AFTER WELDING IN ACCORDANCE WITH AISC 341, SECTION J6.2			FOOTNOTE 8

HIGH-STRENGTH BOLTING			
QUALITY ASSURANCE INSPECTIONS PRIOR TO BOLTING IN ACCORDANCE WITH AISC 360, SECTION N5.6 AND TABLE N5.6-1			FOOTNOTE 7
QUALITY ASSURANCE INSPECTIONS DURING BOLTING IN ACCORDANCE WITH AISC 360, SECTION N5.6 AND TABLE N5.6-2			FOOTNOTE 7
QUALITY ASSURANCE INSPECTIONS AFTER BOLTING IN ACCORDANCE WITH AISC 360, SECTION N5.6 AND TABLE N5.6-3			FOOTNOTE 7
QUALITY ASSURANCE INSPECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM PRIOR TO BOLTING IN ACCORDANCE WITH AISC 341, SECTION J7 AND TABLE J7-1			FOOTNOTE 8
QUALITY ASSURANCE INSPECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM DURING BOLTING IN ACCORDANCE WITH AISC 341, SECTION J7 AND TABLE J7-2			FOOTNOTE 8
QUALITY ASSURANCE INSPECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM AFTER BOLTING IN ACCORDANCE WITH AISC 341, SECTION J7 AND TABLE J7-3			FOOTNOTE 8

COLD-FORMED STEEL DECK			
QUALITY ASSURANCE INSPECTIONS PRIOR TO DECK PLACEMENT IN ACCORDANCE WITH SDI QA/QC STANDARD TABLE 1.1			FOOTNOTE 9
QUALITY ASSURANCE INSPECTIONS AFTER DECK PLACEMENT IN ACCORDANCE WITH SDI QA/QC STANDARD TABLE 1.2			FOOTNOTE 9
QUALITY ASSURANCE INSPECTIONS PRIOR TO DECK WELDING IN ACCORDANCE WITH SDI QA/QC STANDARD TABLE 1.3			FOOTNOTE 9
QUALITY ASSURANCE INSPECTIONS DURING DECK WELDING IN ACCORDANCE WITH SDI QA/QC STANDARD TABLE 1.4			FOOTNOTE 9
QUALITY ASSURANCE INSPECTIONS AFTER DECK WELDING IN ACCORDANCE WITH SDI QA/QC STANDARD TABLE 1.5			FOOTNOTE 9
QUALITY ASSURANCE INSPECTIONS PRIOR TO DECK MECHANICAL FASTENING IN ACCORDANCE WITH SDI QA/QC STANDARD TABLE 1.6			FOOTNOTE 9
QUALITY ASSURANCE INSPECTIONS DURING DECK MECHANICAL FASTENING IN ACCORDANCE WITH SDI QA/QC STANDARD TABLE 1.7			FOOTNOTE 9
QUALITY ASSURANCE INSPECTIONS AFTER DECK MECHANICAL FASTENING IN ACCORDANCE WITH SDI QA/QC STANDARD TABLE 1.8			FOOTNOTE 9

B. REQUIRED REPORTS:

1. A SOILS INSPECTION REPORT, SIGNED, STAMPED AND DATED BY THE GEOTECHNICAL ENGINEER OF RECORD, SHALL BE SUBMITTED TO AND APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION OR THE PLACEMENT OF FOUNDATION CONCRETE. THE REPORT SHALL STATE THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.
2. THE SPECIAL INSPECTION AGENCY SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
3. SPECIAL INSPECTION REPORTS SHALL INDICATE WHETHER THE WORK INSPECTED WAS, OR WAS NOT PERFORMED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. THE CONSTRUCTION MATERIALS TESTING AGENCY SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
5. MATERIAL TESTING REPORTS SHALL INDICATE WHETHER THE TESTED MATERIALS CONFORM, OR DO NOT CONFORM, TO THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS.
6. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
7. IF DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK.
8. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS, MATERIAL TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON, PRIOR TO THE START OF WORK, BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL.

C. CONTINUOUS AND PERIODIC SPECIAL INSPECTIONS:

1. WHERE CONTINUOUS SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR SHALL CONTINUOUSLY PROVIDE FULL-TIME INSPECTION OF THE WORK.
2. WHERE PERIODIC SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING THE WORK WHERE PERIODIC INSPECTION IS INDICATED, AS A MINIMUM, PERIODIC SPECIAL INSPECTION SHALL OCCUR DAILY.

D. OFF-SITE FABRICATION:

1. SPECIAL INSPECTION AND TESTING IS REQUIRED FOR THE OFF-SITE FABRICATION OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS, REINFORCING AND ASSEMBLIES, UNLESS THE FABRICATION IS PERFORMED BY AN APPROVED FABRICATOR.
2. AN APPLICATION FOR OFF-SITE FABRICATION MUST BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO COMMENCING ANY FABRICATION WORK REQUIRING SPECIAL INSPECTION OR TESTING.
3. A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION MUST BE SUBMITTED BY THE FABRICATOR TO THE SPECIAL INSPECTION OR TESTING AGENCY PRIOR TO FABRICATION, AND SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO ERECTION OF PREFABRICATED COMPONENTS.
4. SPECIAL INSPECTION SHALL INCLUDE VERIFICATION THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
5. SPECIAL INSPECTION SHALL INCLUDE REVIEW OF THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE REQUIREMENTS OF THE BUILDING CODE.

E. STRUCTURAL OBSERVATIONS:

1. STRUCTURAL OBSERVATIONS ARE REQUIRED IN ACCORDANCE WITH SECTION 1704.5 OF THE BUILDING CODE.
2. THE OWNER SHALL EMPLOY THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN TO PERFORM VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.
3. PRIOR TO COMMENCEMENT OF OBSERVATIONS, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT IDENTIFYING THE FREQUENCY AND EXTENT OF STRUCTURAL OBSERVATIONS.
4. CONTRACTOR SHALL NOTIFY THE STRUCTURAL OBSERVER AT LEAST 2 WORKING DAYS AHEAD OF THE CONSTRUCTION STAGES INDICATED AND AHEAD OF COMPLETION OF THE STRUCTURAL SYSTEM.
5. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR SPECIAL INSPECTION NOR INSPECTION BY THE BUILDING OFFICIAL.
6. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER, SPECIAL INSPECTION AGENCY, CONTRACTOR AND BUILDING OFFICIAL.
7. AT THE CONCLUSION OF WORK, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE STRUCTURAL OBSERVATIONS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES, WHICH, TO THE BEST OF THE OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
8. THE FOLLOWING STRUCTURAL OBSERVATIONS ARE REQUIRED BY THE ENGINEER OF RECORD:
   A. VISUALLY OBSERVE MOMENT FRAME CONNECTIONS PRIOR TO PLACEMENT OF CONCRETE OR ANY FINISHES THAT WOULD HINDER VISIBILITY.
   B. CONFINEMENT OF BOUNDARY ELEMENTS OF THE PAVER PEDESTAL SYSTEM AT THE GREEN ROOF

2.3

STATEMENT OF SPECIAL INSPECTIONS AND TESTING

DESCRIPTION OF TYPE OF INSPECTION REQUIRED, REFERENCE DETAIL	CONTINUOUS	PERIODIC	REFERENCE
SOIL			
SOIL MATERIAL BELOW FOUNDATIONS FOR ADEQUACY TO ACHIEVE DESIGN BEARING CAPACITY		X	
EXCAVATIONS EXTEND TO PROPER DEPTH AND BEARING STRATA		X	
CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIAL		X	
SUBGRADE AND SITE PREPARATION PRIOR TO PLACEMENT OF CONTROLLED FILL		X	
PLACEMENT AND COMPACTION OF CONTROLLED FILL INCLUDING RELATIVE DENSITY TESTS	X		
SOIL EXPANSION TEST RESULTS INCLUDING EXPANSION INDEX, RECOMMENDATIONS FOR FOUNDATION AND FLOOR SLAB DESIGN.		X	

CAST-IN-PLACE DEEP FOUNDATIONS			
DRILLING OPERATION AND RECORD-KEEPING FOR EACH ELEMENT	X		FOOTNOTE 1
ELEMENT PLACEMENT LOCATION AND PLUMBNESS	X		

6. ADHESIVE ANCHORS SHALL NOT BE USED FOR OVERHEAD INSTALLATION THRU COLD-FORMED STEEL DECK, INTO CONCRETE FILL.
7. ADHESIVE ANCHORS FOR INSTALLATION IN CONCRETE MASONRY SHALL BE HILTI HIT HY70 (ICC #ESR-2682) OR DEWALT AC100+GOLD (ICC #ESR-3200). ALTERNATE PRODUCTS SHALL CARRY AN EVALUATION APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH EVALUATION ACCEPTANCE CRITERIA AC58 AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO DELIVERY TO THE JOBSITE.
8. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMBEDMENT, SPACING AND EDGE DISTANCE) AS INDICATED ON THE DRAWINGS.
9. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURER'S PUBLISHED EVALUATION REPORT. HOLES SHALL BE CLEANED IN CONFORMANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS.
10. WHEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE OR MASONRY, AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.

Z. GLAZED CURTAIN WALLS, DEFERRED APPROVAL:

1. GLAZED CURTAIN WALLS SHALL BE DEFERRED APPROVAL EXCEPT WHERE SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. DEFERRED APPROVAL GLAZED CURTAIN WALLS SHALL COMPLY WITH ANY DETAILS PROVIDED.
2. DESIGN OF GLAZED CURTAIN WALLS, INCLUDING FRAMING MEMBERS AND CONNECTIONS (INCLUDING THOSE TO BUILDING STRUCTURE), SHALL PROVIDE FOR LATERAL RESTRAINT AND COMPLY WITH THE CONTRACT DOCUMENTS AND THE BUILDING CODE.
3. CALCULATIONS SHALL CLEARLY IDENTIFY LOADS IMPOSED ON THE BUILDING STRUCTURE.
4. GLAZED CURTAIN WALL AND CLADDING SYSTEM DESIGN SHALL ALLOW FOR 1/2 INCH LIVE LOAD DEFLECTION OF FLOOR OR ROOF BEAMS WITHOUT ADVERSELY IMPACTING CURTAIN WALL, CLADDING ELEMENTS OR CONNECTIONS.
5. GLAZED CURTAIN WALL WEIGHT SHALL NOT EXCEED 20 PSF.
6. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
7. VERTICAL AND HORIZONTAL DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS PRIOR TO FABRICATION. THE ARCHITECT SHALL BE NOTIFIED OF ANY FIELD CONDITIONS NOT COVERED BY THE CONTRACT DOCUMENTS PRIOR TO FABRICATION.
8. CONNECTIONS TO THE STRUCTURE SHALL INCLUDE STABILIZING ELEMENTS SUCH AS BRACES, STIFFENER PLATES, ETC., SO AS TO NOT IMPOSE ECCENTRIC LOADING, TWISTING, OR WARPING TO STRUCTURAL MEMBERS. PROVIDE MATERIAL AND INSTALL STABILIZING ELEMENTS. NECESSARY STABILIZING ELEMENTS SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER.

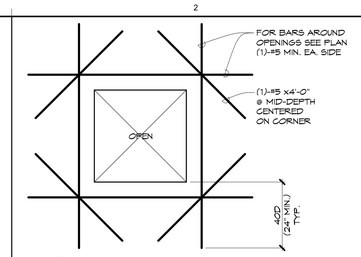
SPECIAL INSPECTION AND TESTING PROGRAM

A. GENERAL:

1. NOTICE TO THE APPLICANT, OWNER, OWNER'S AGENT, ARCHITECT OR ENGINEER OF RECORD:
   BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION OR INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE BUILDING OFFICIAL FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY CALIFORNIA CONSTRUCTION CODES.
2. NOTICE TO THE CONTRACTOR, BUILDER, INSTALLER, SUBCONTRACTOR OR OWNER-BUILDER:
   BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION OR INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE THAT YOU ARE AWARE OF THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE BUILDING OFFICIAL FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY CALIFORNIA CONSTRUCTION CODES.
3. THE OWNER OR OWNER'S AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY SPECIAL INSPECTION AND TESTING AGENCIES TO PROVIDE INSPECTIONS DURING CONSTRUCTION OF THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.
4. SPECIAL INSPECTION SHALL BE PERFORMED IN ADDITION TO INSPECTION BY THE BUILDING OFFICIAL AS REQUIRED IN SECTION 110 OF THE BUILDING CODE. SPECIAL INSPECTION SHALL NOT BE A SUBSTITUTE FOR INSPECTION BY THE BUILDING OFFICIAL.
5. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION OR TESTING IS TO BE PERFORMED SIMULTANEOUSLY, OR IN A GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE OBSERVED IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS AND SECTION 1704 OF THE BUILDING CODE, IT SHALL BE THE SPECIAL INSPECTION AGENCY'S RESPONSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF INSPECTORS TO ASSURE THAT THE REQUIRED WORK IS INSPECTED.
6. THE SPECIAL INSPECTION AGENCY SHALL BE APPROVED BY THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
   EXCEPTIONS:
   A. SOILS INSPECTIONS SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD.
   B. SMOKE CONTROL SYSTEM INSPECTIONS SHALL BE PERFORMED BY THE MECHANICAL ENGINEER OF RECORD.
   C. WHEN THIS REQUIREMENT FOR AGENCY APPROVAL IS WAIVED BY THE BUILDING OFFICIAL.
7. THE CONSTRUCTION MATERIALS TESTING AGENCY SHALL BE APPROVED BY THE BUILDING OFFICIAL FOR THE TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND EQUIPMENT.
8. PRIOR TO THE START OF CONSTRUCTION, THE SPECIAL INSPECTION AND TESTING AGENCIES SHALL SUBMIT DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING THE COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION.
9. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A STATEMENT OF RESPONSIBILITY TO THE OWNER (OR OWNER'S DESIGNATED AGENT) AND BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTING.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SPECIAL INSPECTION OR TESTING AGENCIES AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
11. WORK REQUIRING SPECIAL INSPECTION OR TESTING THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL IS SUBJECT TO REMOVAL OR EXPOSURE AT THE CONTRACTOR'S EXPENSE.
10. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
11. VERTICAL AND HORIZONTAL DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS PRIOR TO FABRICATION. THE ARCHITECT SHALL BE NOTIFIED OF ANY FIELD CONDITIONS NOT COVERED BY THE CONTRACT DOCUMENTS PRIOR TO FABRICATION.
12. COLD-FORMED FRAMING DESIGN SHALL ALLOW FOR 1/2 INCH LIVE LOAD DEFLECTION OF FLOOR OR ROOF BEAMS WITHOUT ADVERSELY IMPACTING COLD-FORMED FRAMING., CLADDING ELEM

11/17/2017 11:42:22 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

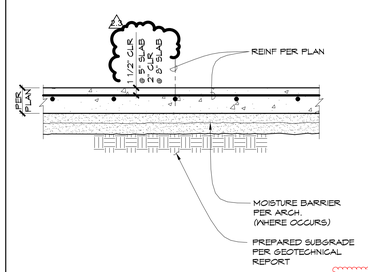
NOT USED (26)



NOTES:
1. THIS DETAIL IS APPLICABLE AT OPENINGS WHERE ANY SIDE IS GREATER THAN 1'-0".
2. FOR OPENINGS SMALLER THAN 1'-0" BEND ALL REINFORCEMENT AROUND OPENINGS.

TYP. REINF. AT OPENINGS IN CONC. SLAB ON GRADE ON GRADE (21)

NOT USED (16)



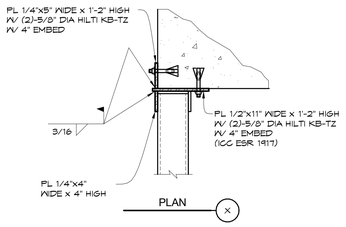
TYPICAL SLAB ON GRADE (11)

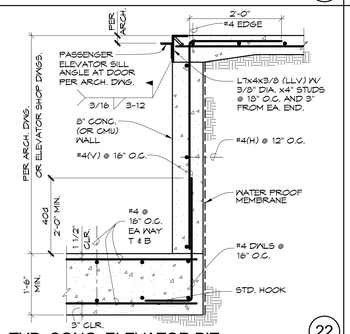
RFI 2-00106 Drill and Epoxy Slab Dowels

CONC. f'c=3000 PSI						CONC. f'c=4000 PSI						CONC. f'c=5000 PSI						CONC. f'c=6000 PSI					
BAR SIZE	SPLICE		DEVELOPMENT			BAR SIZE	SPLICE		DEVELOPMENT			BAR SIZE	SPLICE		DEVELOPMENT			BAR SIZE	SPLICE		DEVELOPMENT		
	TOP	OTHER	TOP	OTHER	HOOKED		TOP	OTHER	TOP	OTHER	HOOKED		TOP	OTHER	TOP	OTHER	HOOKED		TOP	OTHER	TOP	OTHER	HOOKED
3	24	22	22	17	8	3	25	20	19	15	6	3	22	17	17	13	6	3	21	16	16	12	6
4	36	28	28	22	11	4	33	25	25	19	8	4	30	23	23	17	8	4	27	21	21	16	8
5	47	36	36	28	14	5	40	31	31	24	12	5	36	28	28	22	11	5	34	26	26	20	10
6	56	43	43	33	16	6	48	38	37	29	14	6	44	34	34	26	13	6	40	31	31	24	12
7	82	62	63	48	19	7	70	55	54	42	17	7	64	49	49	38	15	7	58	44	45	34	14
8	94	72	72	55	22	8	81	62	62	48	19	8	73	56	56	43	17	8	66	51	51	39	15
9	105	81	81	62	25	9	91	70	70	54	21	9	82	62	63	48	19	9	74	57	57	44	17
10	118	91	91	70	28	10	103	79	79	61	24	10	92	70	71	54	22	10	83	65	64	50	20
11	131	101	101	78	31	11	115	87	87	67	27	11	101	78	78	60	24	11	92	72	71	55	22

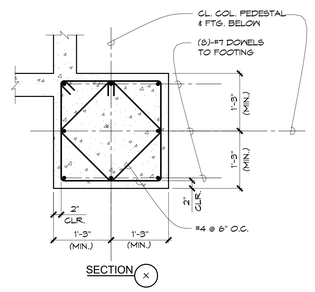
NOTES:
1. SCHEDULE VALUES FOR DEVELOPMENT ARE BASED ON ACI 318, SECTION 12.2.2 AND 12.5 FOR GRADE 60 BARS.
2. SCHEDULE VALUES FOR SPLICES ARE BASED ON ACI 318, SECTION 12.15 FOR CLASS B SPLICES.
3. CLEAR SPACING BETWEEN BARS BEING SPLICED OR DEVELOPED SHALL BE 2 BAR DIAMETERS (MIN.)
4. CONCRETE CLEAR COVER OVER BARS BEING DEVELOPED SHALL BE 1 BAR DIAMETER (MIN.)
5. DEVELOPMENT AND SPLICE LENGTHS ARE GIVEN IN INCHES.
6. TOP BARS ARE STRAIGHT HORIZONTAL BARS LOCATED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW.
7. OTHER BARS ARE STRAIGHT HORIZONTAL BARS LOCATED SUCH THAT 12 INCHES OR LESS OF FRESH CONCRETE IS PLACED BELOW OR STRAIGHT VERTICAL BARS.
8. HOOKED BARS ARE VERTICAL OR HORIZONTAL BARS TERMINATING WITH STANDARD HOOKS THAT COMPLY WITH DETAIL 5/-

REBAR SPLICE AND DEVELOPMENT IN NORMAL WEIGHT CONCRETE, U.O.N. (1)

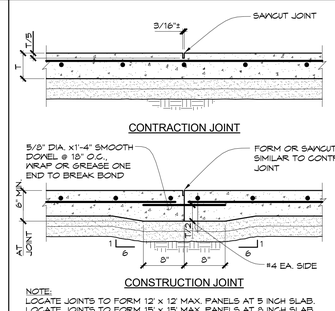




TYP. CONC. ELEVATOR PIT (22)

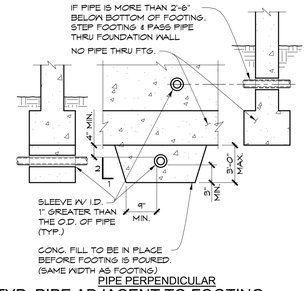


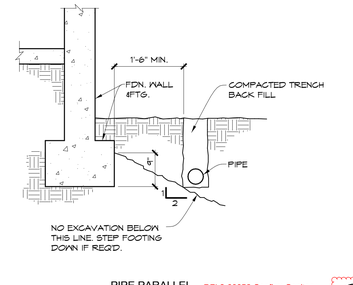
SECTION (X)



NOTE:
LOCATE JOINTS TO FORM 12' x 12' MAX. PANELS AT 5 INCH SLAB.
LOCATE JOINTS TO FORM 15' x 15' MAX. PANELS AT 8 INCH SLAB.

TYPICAL SLAB ON GRADE JOINTS (12)





RFI 2-00058 Confirm Sanitary Waste Main vs Angle of Repose

TYP. PIPE ADJACENT TO FOOTING (2)

TYP. SEPARATOR BEAM CONN. AT ELEVATOR PIT (28)

TYP. SEPARATOR BEAM CONN. AT ELEVATOR PIT (23)

TYPICAL COLUMN PEDESTAL (18)

NOTE:
1. CONTRACTORS OPTION TO USE MECHANICAL BAR SPLICER IN LIEU OF LAP SPLICE. MECHANICAL SPLICE SHALL DEVELOP 125% OF THE SPECIFIED REBAR YIELD STRENGTH.

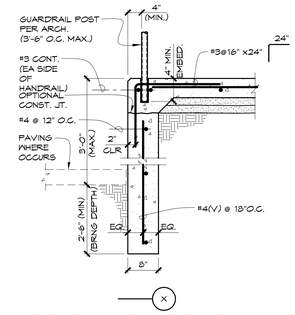
TYP. FOOTING CONSTRUCTION JOINT (13)

RFI 2-00056 Step Ftg at A4 - 105 Wall

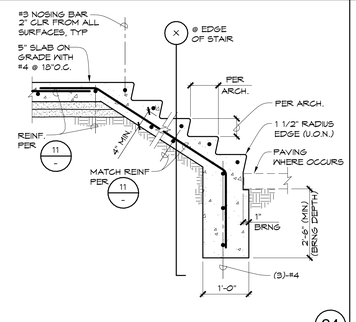
TYP. STEPPED FOOTING (8)

NOTE:
1. WHERE SINGLE LAYER OF REINF. OCCURS, BEND REINF. AS SHOWN FOR OUTSIDE BARS.
2. DETAIL APPLIES TO FOOTINGS, BEAMS AND CONCRETE WALLS
3. d = BAR DIAMETER

TYP. REINF. AT INTERSECTION (3)



TYP. CONCRETE STEPS ON GRADE (24)

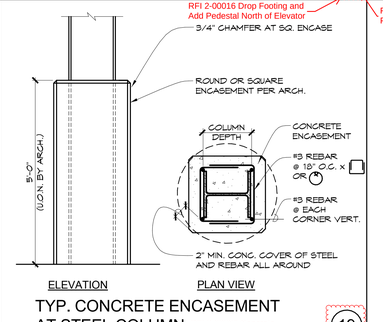


TYP. CONCRETE ENCASEMENT AT STEEL COLUMN (19)

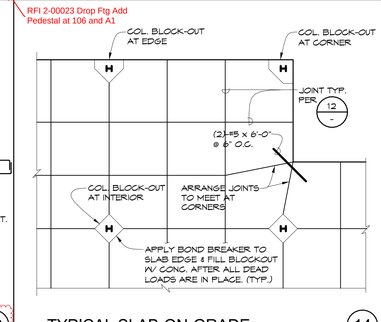
RFI 2-00016 Drop Footing and Add Pedestal North of Elevator

RFI 2-00023 Drop Ftg Add Pedestal at 106 and A1

RFI 2-00087 Concrete Encasement at Steel Columns



TYPICAL SLAB-ON-GRADE (14)

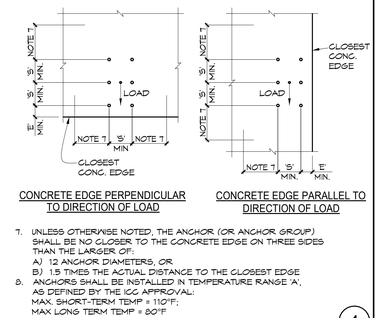


TYPICAL SLAB-ON-GRADE (14)

ANCHOR SIZE	REBAR SIZE	EMBED DEPTH (UON)	MINIMUM CONC THICK, 'T' (UON)	MINIMUM EDGE DIST, 'E' (UON)	MINIMUM SPACING, 'S' (UON)
3/8" DIA.	#3	3"	4 1/4"	2 1/4"	4 1/2"
1/2" DIA.	#4	4"	5 1/4"	3"	6"
5/8" DIA.	#5	5"	6 1/4"	3 3/4"	7 1/2"
3/4" DIA.	#6	6"	7 1/2"	4 1/2"	9"
7/8" DIA.	#7	7"	8 3/4"	5 1/4"	10 1/2"
1" DIA.	#8	8"	10"	6"	12"
N/A	#9	9"	11 1/4"	6 3/4"	13 1/2"
1 1/4" DIA.	#10	10"	12 1/2"	7 1/2"	15"

NOTES:
1. SPECIAL INSPECTION IS REQ'D FOR INSTALLATION OF ANCHORS, U.O.N.
2. ADHESIVE SHALL BE HILTI HIT-RE-500-V3 (ICC #ESR-3814), OR APPROVED EQUAL.
3. THREADED ROD ANCHORS SHALL BE ISO 898-1 CLASS 5.8, ASTM A193 B7 OR ASTM F593, CW STAINLESS
4. REINF. STEEL ANCHORS SHALL BE ASTM A615 OR ASTM A706 GRADE 60.
5. HOLES SHALL BE DRILLED INTO DRY CONCRETE WITH A HAMMER DRILL AND CARBIDE BIT
6. CONCRETE SHALL BE NORMAL WEIGHT, f'c SHALL BE 3000 PSI, MIN.
7. UNLESS OTHERWISE NOTED, THE ANCHOR (OR ANCHOR GROUP) SHALL BE NO CLOSER TO THE CONCRETE EDGE ON THREE SIDES THAN THE LARGER OF:
   A) 12 ANCHOR DIAMETERS, OR
   B) 1.5 TIMES THE ACTUAL DISTANCE TO THE CLOSEST EDGE
8. ANCHORS SHALL BE INSTALLED IN TEMPERATURE RANGE 'A', AS DEFINED BY THE ICC APPROVAL:
   MAX. SHORT-TERM TEMP = 110°F;
   MAX LONG TERM TEMP = 80°F

ADHESIVE ANCHOR SCHEDULE (4)



HORIZONTAL OR VERTICAL PIPE PENETRATION THROUGH GRADE BM. (25)

RFI 2-00022 Water Piping through Grade Beam - 2017.12.06

RFI 2-00044 Waste Piping Through Grade Beam at Gridlines X2 & 205

TYPICAL TRENCH DRAIN (20)

TYPICAL SLAB ON GRADE DEPRESSION (15A) (15)

TYPICAL STIRRUP TIE, HOOP OR CROSS-TIE (10)

NOTES:
1. FOR #3 & SMALLER STD. HOOK, 'D' SHALL BE 6 x db
2. FOR #4, #10 & #11: STD. HOOK, 'D' SHALL BE 8 x db
3. FOR #14 & #18: STD. HOOK, 'D' SHALL BE 10 x db

STANDARD HOOKS AND BENDS

TYPICAL REINF. BAR BENDS AND HOOKS (5)

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
TYPICAL DETAILS

Sheet No.
2S-012

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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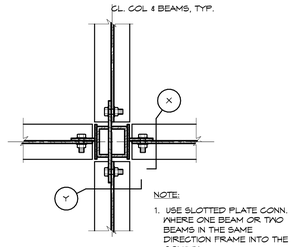
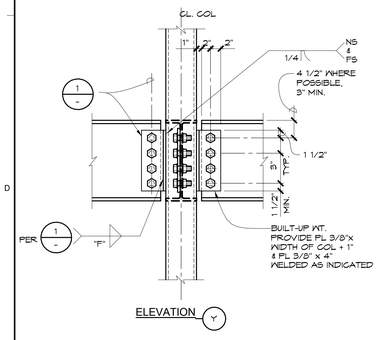
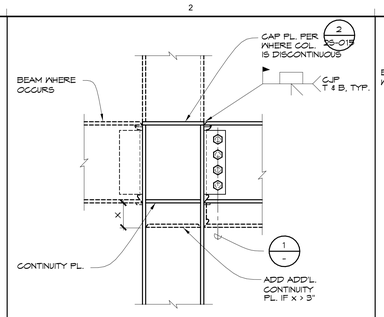


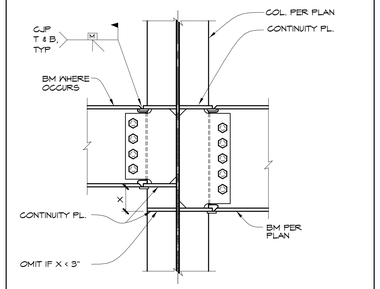
PLAN VIEW



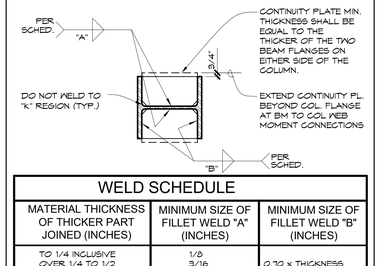
ELEVATION Y



BEAM TO COLUMN FLANGE



BEAM TO COLUMN WEB

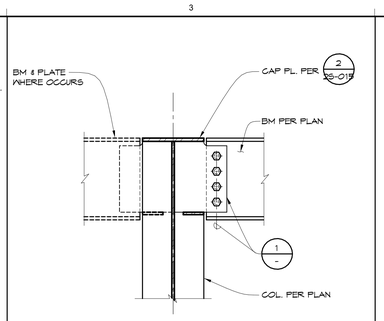


CONTINUITY PLATE

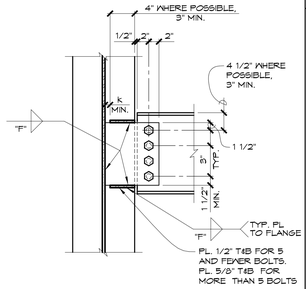
WELD SCHEDULE

MATERIAL THICKNESS OF THICKER PART JOINED (INCHES)	MINIMUM SIZE OF FILLET WELD "A" (INCHES)	MINIMUM SIZE OF FILLET WELD "B" (INCHES)
TO 1/4 INCLUSIVE OVER 1/4 TO 1/2 OVER 1/2 TO 3/4 OVER 3/4	1/8 3/16 1/4 5/16	0.70 X THICKNESS OF CONTINUITY PL.

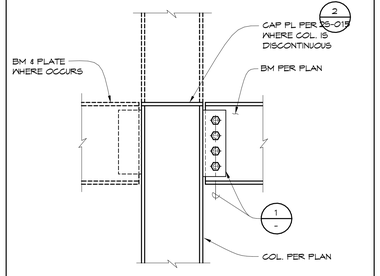
TYP. NON-FRAME BEAM TO COLUMN MOMENT CONNECTION 23



TYP. BEAM TO COL. WEB CONNECTION

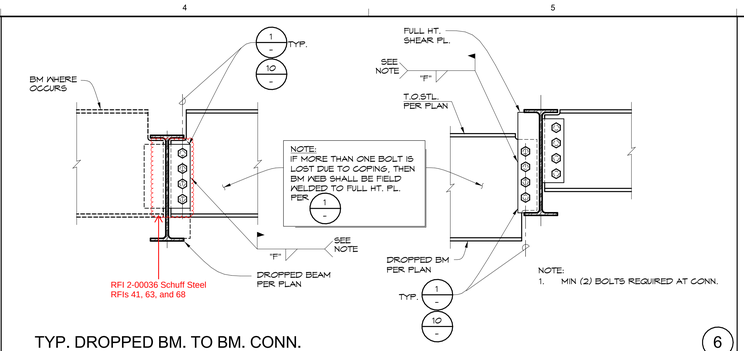


TYP. BM. TO COL. WEB CONNECTION



TYP. BEAM TO COL. FLANGE CONN.

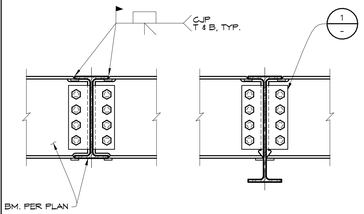
TYP. BEAM TO W COLUMN CONN. 18



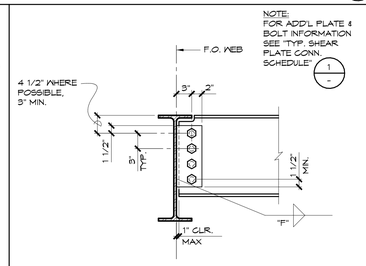
TYP. DROPPED BM. TO BM. CONN. 6

BEAM SIZE	SHEAR PLATE		# OF 1" DIA A325N BOLTS	# OF ROWS
	THICK.	WELD 'F'		
W8, W10	3/8	5/16	2	1
W12, W14	3/8	5/16	3	1
W16	3/8	5/16	4	1
W18, W21	3/8	5/16	5	1
W24	3/8	5/16	6	1
W27	3/8	5/16	7	1
W30	3/8	5/16	8	1
W33,W36	3/8	5/16	9	1

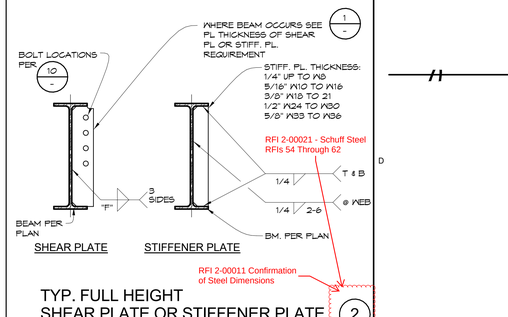
TYP. SHEAR PLATE CONN. SCHEDULE 1



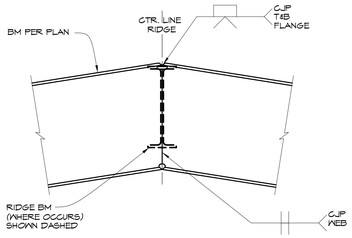
TYP. BEAM TO BEAM MOMENT CONN. 12



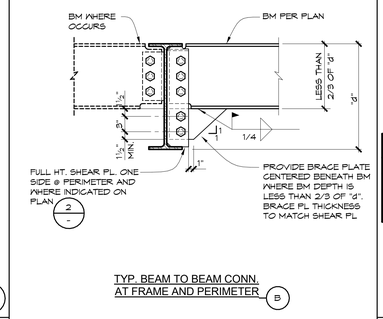
TYP. BEAM TO BEAM CONT. A



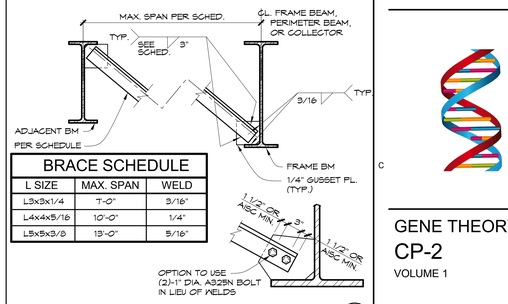
TYP. FULL HEIGHT SHEAR PLATE OR STIFFENER PLATE 2



TYP. BEAM SPLICE 13

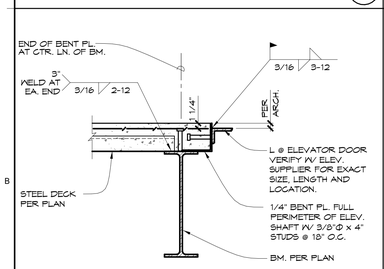


TYP. BEAM TO BEAM CONN. AT FRAME AND PERIMETER B

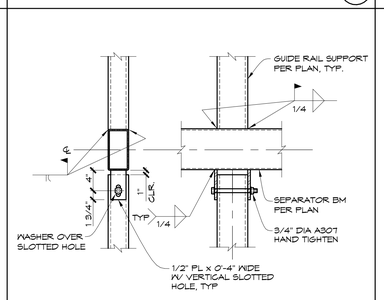


BRACE SCHEDULE		
L SIZE	MAX. SPAN	WELD
L3x3x1/4	7'-0"	3/16"
L4x4x5/16	10'-0"	1/4"
L5x5x3/8	13'-0"	5/16"

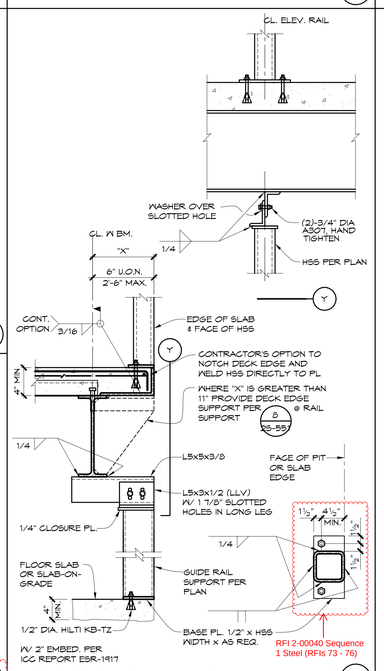
TYP. COMPRESSION FLANGE BRACE 3



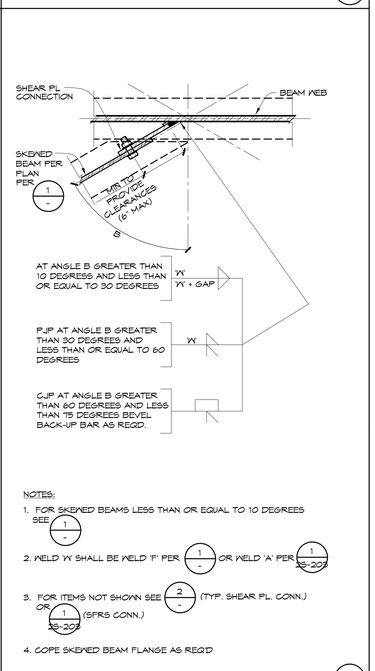
TYP. ELEV. SILL SUPPORT AT FLOOR 29



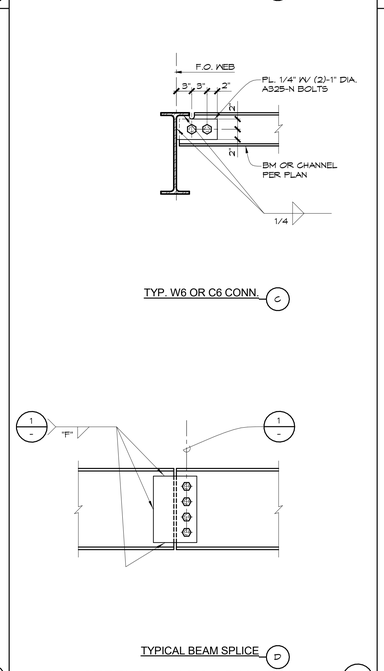
TYP. GUIDE RAIL SUPPORT TO SEPARATOR BEAM CONNECTION 24



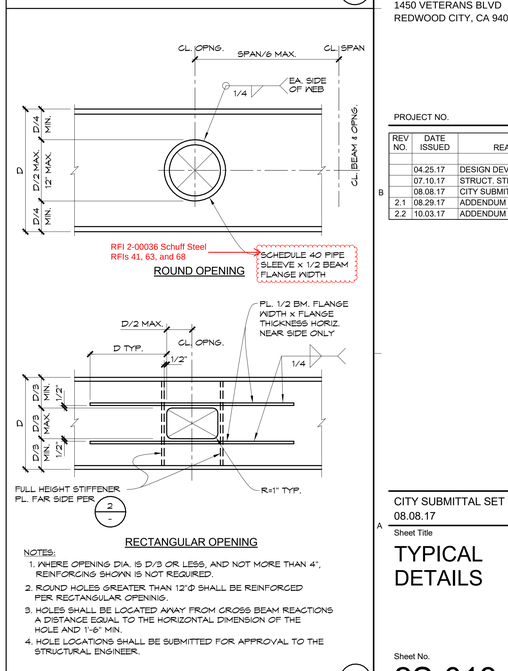
TYP. ELEVATOR GUIDE RAIL SUPPORT 20



TYPICAL SKEWED BM. CONNECTION 15



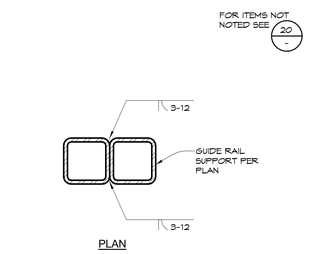
TYP. STEEL BEAM TO BEAM CONN. 10



RECTANGULAR OPENING

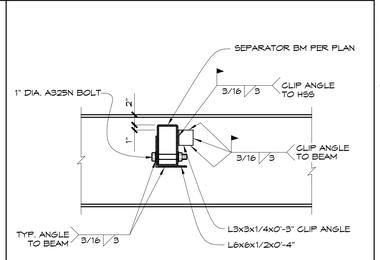
NOTES:
1. WHERE OPENING DIA. IS D/3 OR LESS, AND NOT MORE THAN 4", REINFORCING SHOWN IS NOT REQUIRED.
2. ROUND HOLES GREATER THAN 12"Ø SHALL BE REINFORCED PER RECTANGULAR OPENING.
3. HOLES SHALL BE LOCATED AWAY FROM CROSS BEAM REACTIONS A DISTANCE EQUAL TO THE HORIZONTAL DIMENSION OF THE HOLE AND 1'-6" MIN.
4. HOLE LOCATIONS SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER.

TYPICAL OPENING IN BEAM WEB 5



PLAN

30



RFI 2-00021 - Schuff Steel
RFIs 54 Through 62

TYP. SEPARATOR BEAM SUPPORT 25

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
-	04.25.17	DESIGN DEVELOPMENT
-	07.10.17	STRUCT. STEEL BID SET
-	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
TYPICAL DETAILS

Sheet No.
2S-013

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

8/29/2017 11:30:12 AM
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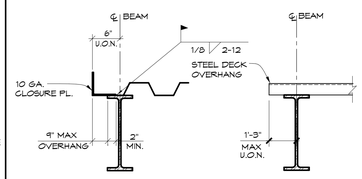
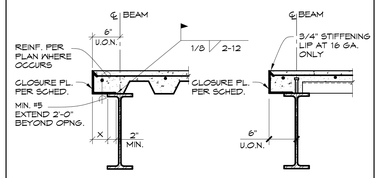
TYP. EDGE AT NON-COMPOSITE INTERIOR OPENINGS (26)

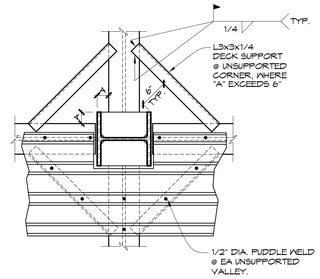


TYP. EDGE AT COMPOSITE INTERIOR OPENINGS (21)

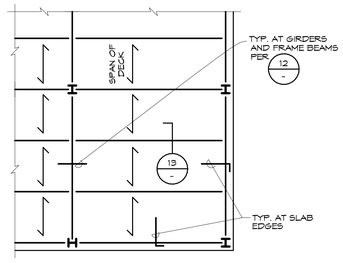


CLOSURE PLATE SCHEDULE	
OVERHANG "X"	BENT PLATE
LESS THAN 4"	16 GA
LESS THAN 7"	12 GA
LESS THAN 10"	10 GA
10" OR LARGER	PER S/2S-551

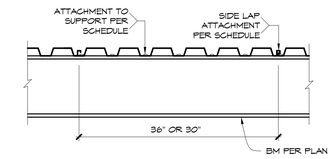
TYP. ANGLE SUPPORT AT COLUMN (16)



TYP. COMPOSITE STEEL DECK REINF. AT PURLINS AND GIRDERS (11)

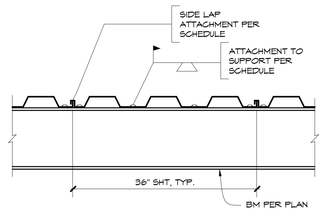


ATTACHMENT TO SUPPORT		SIDE LAP ATTACH.	NOTES
PERP. TO DECK	PARALLEL TO DECK		
(4)-1/2" DIA. PUDDLE WELD	1/2" DIA. PUDDLE WELD @ 12" O.C.	PUNCHLOK II @ 24" O.C.	AT COMPOSITE FLOOR DECK TYP.
(1)-1/2" DIA. PUDDLE WELD	1/2" DIA. PUDDLE WELD @ 12" O.C.	PUNCHLOK II @ 12" O.C.	AT ELEV. POP UP ROOFS



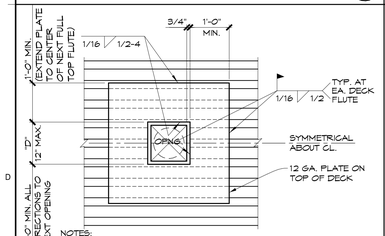
DECK PERPENDICULAR TO BEAM

ATTACHMENT TO SUPPORT		SIDE LAP ATTACH.	NOTES
PERP. TO DECK	PARALLEL TO DECK		
(4)-1/2" DIA. PUDDLE WELD	1/2" DIA. PUDDLE WELD @ 12" O.C.	PUNCHLOK II @ 24" O.C.	-



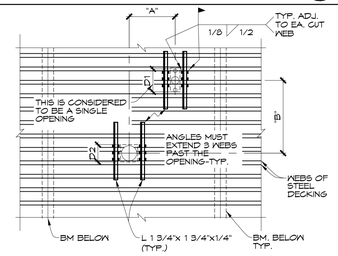
DECK PERPENDICULAR TO BEAM

TYP. REINF. FOR SMALL OPNGS. IN NON-COMPOSITE STEEL DECK (27)



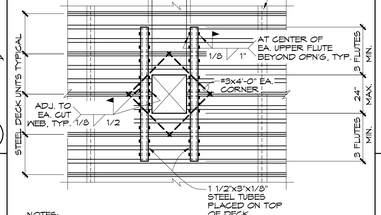
NOTES:
1. REINFORCING NOT REQUIRED IF OPENING IS LESS THAN 6" SQ. IN 3" STEEL DECK OR OPENING IS LESS THAN 3" SQ. IN 1 1/2" STEEL DECK.
2. CUT OPENING IN STEEL DECK AFTER REINFORCING PLATE IS WELDED TO STEEL DECK. 3. FOR OPENINGS CLOSER THAN MINIMUM SPACING SHOWN, REINF. AS SHOWN FOR LARGER OPENING.

TYP. REINF. FOR SMALL OPNGS IN COMPOSITE STEEL DECK (24)



NOTES:
1. TWO ADJACENT WEB OPENINGS IS DEFINED AS A 6" MAX. HOLE AT 1 1/2" DECK AND 12" MAX. HOLE AT 2" & 3" DECK. TYP.
2. ANGLES SHALL BE PLACED ON TOP OF DECK. IF ANGLES ARE LOCATED BELOW DECK, WELD ANGLE AS SHOWN ABOVE TO EACH BOTTOM FLUTE.
3. IF DIMENSION "A" IS GREATER THAN 4xD1, 4xD2, OR 32", WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "B"
4. IF DIMENSION "B" IS GREATER THAN 4xD1, 4xD2, OR 32" WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "A"
5. IF DIMENSION "A" AND "B" ARE LESS THAN 4xD1, 4xD2, OR 32", WHICHEVER IS LARGER, THE OPENING GROUP WILL BE CONSIDERED AS A SINGLE HOLE, AND MUST BE REINFORCED AS REQUIRED FOR THE LARGER COMBINED OPENING.

HOLES CUTTING NO MORE THAN TWO ADJACENT WEBS (A)

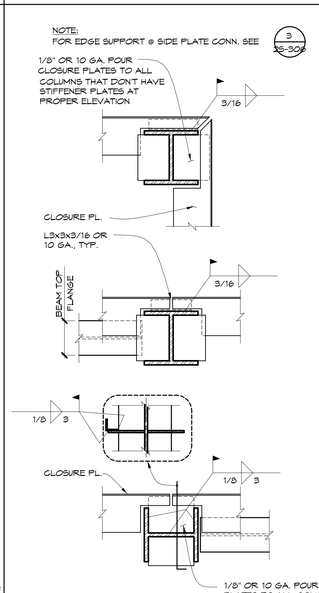


NOTES:
1. IF THE OPENING OR GROUP OF OPENINGS OCCURS IN ONE DECKING UNIT, THE OPENING OR OPENING GROUP MAY BE CUT PRIOR TO POURING OF CONCRETE.
2. IF, AS SHOWN ON DETAIL ABOVE, THE OPENING OR OPENING GROUP CUTS THROUGH TWO DECKING UNITS, THE DECKING SHALL NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND CURED. AT THE TIME OF POURING, SUITABLE SLEEVES OR POUR-STOPS SHALL BE PLACED AROUND THE OPENING.
3. ADD REBAR AT CORNERS OF OPENING AS SHOWN.
4. WHEN THE MAXIMUM DIMENSION OF AN OPENING OR OPENING GROUP EXCEEDS 24", PLACE HEADER BEAM AROUND OPENING PER (25)

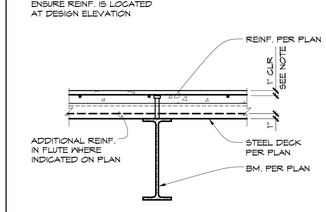
LARGER HOLES CUTTING MORE THAN TWO ADJACENT WEBS, RECTANGULAR OR SQUARE (B)

NOTE:
PRIOR TO CONCRETE POUR, SMALL OPENINGS SHOULD BE BLOCKED OUT AND STEEL DECK LEFT INTACT. HOLES LESS THAN 6" IN DIAMETER AND CUTTING NO MORE THAN 1 WEB NEED NO REINFORCING AFTER THE CONC. HAS CURED, THE BLOCKOUT CAN BE REMOVED AND THE STEEL DECK IN THE AREA OF THE HOLE REMOVED.

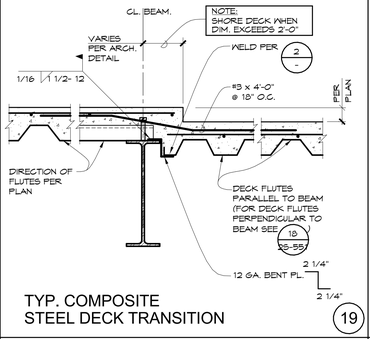
TYP. SUPPORT FOR CLOSURE PLATE AT COLUMN (18)



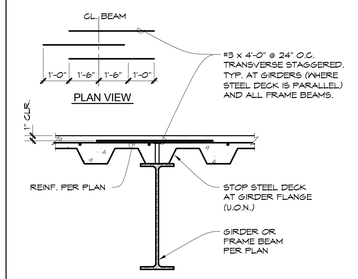
TYPICAL DETAIL AT PURLINS (13)



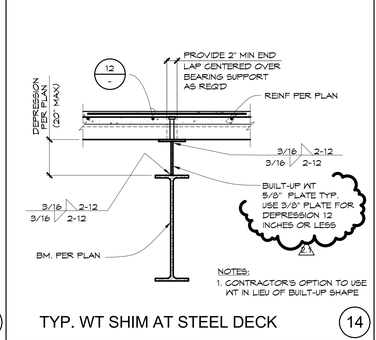
TYP. COMPOSITE STEEL DECK TRANSITION (19)



TYP. REINFORCING AT GIRDERS AND FRAME BEAMS (12)

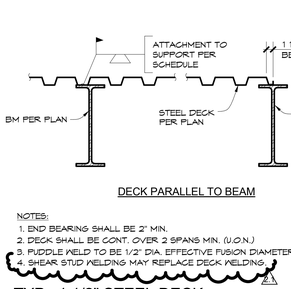


TYP. WT SHIM AT STEEL DECK (14)



NOTES:
1. CONTRACTOR'S OPTION TO USE WT IN LIEU OF BUILT-UP SHAPE

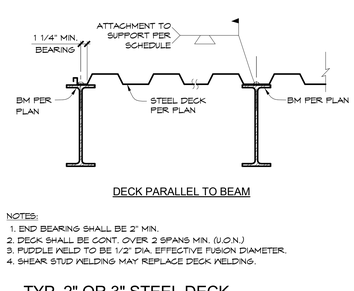
TYP. 1 1/2" STEEL DECK WELDING PATTERN (7)



DECK PARALLEL TO BEAM

NOTES:
1. END BEARING SHALL BE 2" MIN.
2. DECK SHALL BE CONT. OVER 2 SPANS MIN. (U.O.N.)
3. PUDDLE WELD TO BE 1/2" DIA. EFFECTIVE FUSION DIAMETER.
4. SHEAR STUD WELDING MAY REPLACE DECK WELDING.

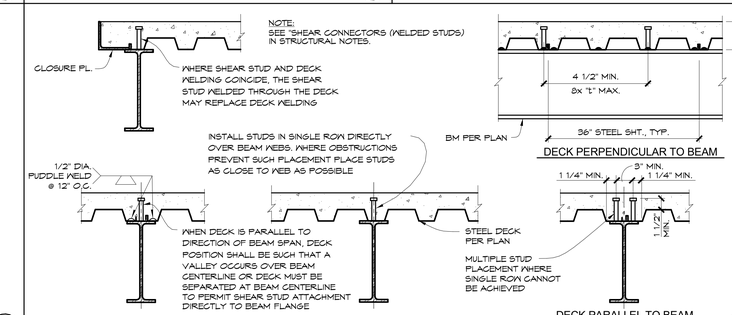
TYP. 2" OR 3" STEEL DECK WELDING PATTERN (2)



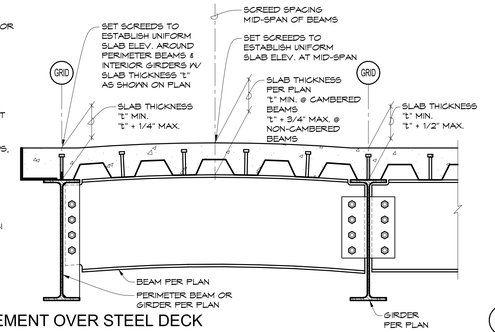
DECK PARALLEL TO BEAM

NOTES:
1. END BEARING SHALL BE 2" MIN.
2. DECK SHALL BE CONT. OVER 2 SPANS MIN. (U.O.N.)
3. PUDDLE WELD TO BE 1/2" DIA. EFFECTIVE FUSION DIAMETER.
4. SHEAR STUD WELDING MAY REPLACE DECK WELDING.

TYP. COMPOSITE STEEL DECK ATTACHMENT WITH SHEAR STUDS (3)



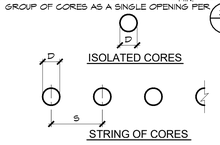
CONCRETE FILL PLACEMENT OVER STEEL DECK (4)



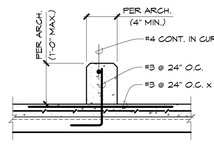
TYP. CORED OPENINGS IN COMPOSITE STEEL DECK (29)

DECK HEIGHT	$D_{MAX.}$ W/O REINF.	$S_{MIN.}$ W/O REINF.
1 1/2"	3"	18"
2"	6"	36"
3"	6"	36"

NOTES:
1. WHERE D_{MAX} IS EXCEEDED, REINFORCE METAL DECK FOR OPENING PER (24), WELD SUPPORT TO UNDERSIDE OF STEEL DECK.
2. WHERE CORE SPACING IS LESS THAN $S_{MIN.}$, REINFORCE GROUP OF CORES AS A SINGLE OPENING PER (24) OR (25)

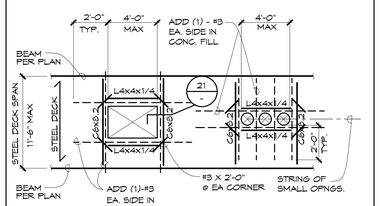


TYP. CONCRETE CURB AT COMPOSITE STEEL DECK (30)



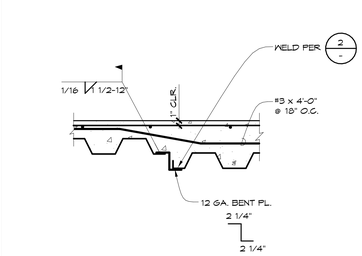
NOTE:
CONTRACTOR'S OPTION TO PROVIDE ADHESIVE REBAR W/ 2" MIN EFFECTIVE EMBED PER 4 2S-012

FRAMING FOR LARGE OPENINGS IN COMPOSITE STEEL DECK (25)

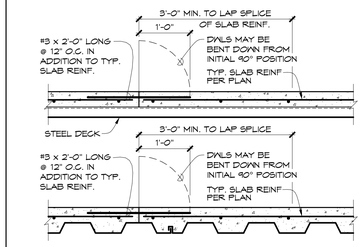


NOTES:
1. FOR SMALL OPENINGS (LESS THAN 2'-0") SEE (24)
2. FOR CHANNEL AND ANGLE END CONN. SEE (29)

TYP. COMPOSITE STEEL DECK TRANSITION (20)



TYP. CONSTRUCTION JOINT AT STEEL DECK CONCRETE FILL (15)



CONCRETE SLAB ON STEEL DECK

NOTE:
JOINTS MUST BE LOCATED MIN. OF 3'-0" FROM PURLIN AND MIN. OF 6'-0" FROM GIRDER.

TYPICAL SHEAR STUD LENGTHS (5)

NOTES:
1. FOR WELDING OF STEEL DECK SEE (2) (7)
2. FOR ATTACHMENT OF SHEAR STUDS SEE (3)
3. SHEAR STUDS ARE 3/4" DIAMETER U.O.N.
4. SHEAR STUD LENGTH INDICATED IS IN-PLACE FINISHED LENGTH
5. SHEAR STUDS SHALL NOT HAVE LESS THAN 3/4" OF CONCRETE COVER.
6. WHERE USED W/ 3" OR 3" STEEL DECK, SHEAR CONNECTORS SHALL NOT BE LESS THAN 4 1/2" IN LENGTH IN PLACE
7. USE SHORTER SHEAR STUDS WHERE CONCRETE SURFACE IS REDUCED IN THICKNESS DUE TO FLOOR DEPRESSIONS. STUD LENGTH SHALL BE EQUAL TO THE STRUCTURAL FLOOR THICKNESS, MINUS 3/4" FOR COVER.

RECOMMENDED STUD LENGTHS			
DECK TYPE	CONC THICKNESS & TYPE	SHEAR STUD LENGTH	COMMENTS
3",W3	2 1/2" LT. WT.	4 1/2"	
3",W3	3 1/4" LT. WT.	5"	
3",W3	4 1/2" N. Wt.	6 1/2"	
1 1/2",B	3 1/4" LT. WT.	4"	

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title
TYPICAL DETAILS

Sheet No.
2S-014

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

8/29/2017 11:30:20 AM
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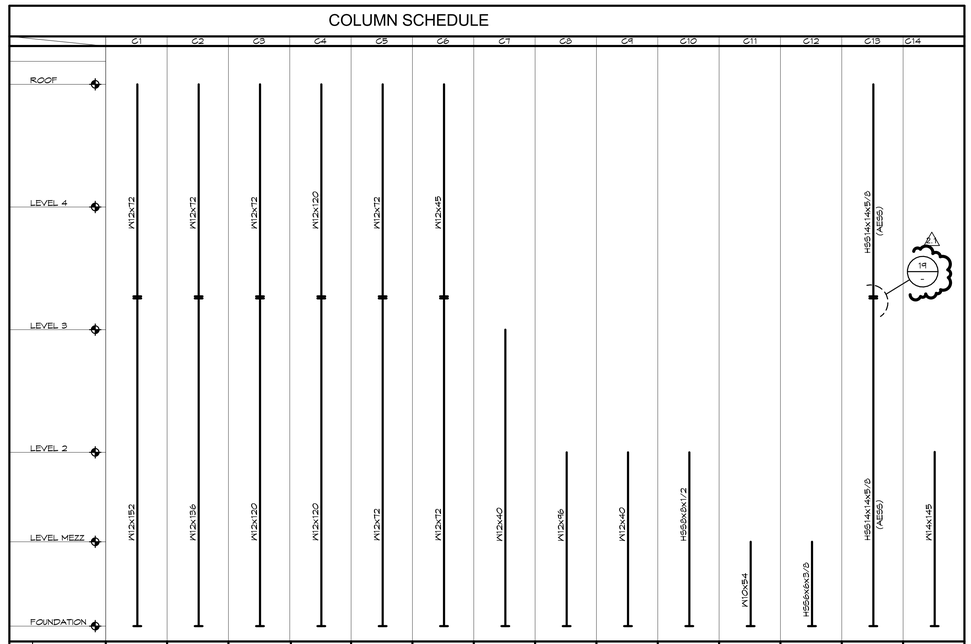
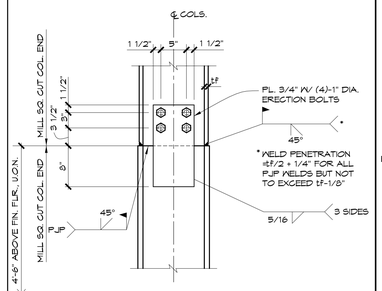
COLUMN SCHEDULE



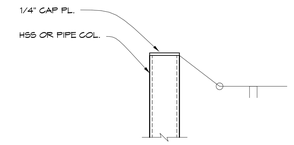
		C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14
BASE PLATE	DIMENSION 'A'	18"	18"	18"	18"	18"	18"	18"	18"	18"	14"	16"	12"	20"	22"
	DIMENSION 'B'	18"	18"	18"	18"	18"	18"	18"	18"	18"	14"	16"	12"	20"	22"
	THICKNESS	1 1/2"	1 1/2"	1 1/4"	1 1/4"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
	DETAIL	5/-	5/-	5/-	5/-	5/-	5/-	5/-	5/-	5/-	10/-	5/-	10/-	10/-	5/-
	NOTES	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANCHOR RODS (F1554, GR 55-51) (LOW)	NO.	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	DIAM.	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"

NOT USED (6)

TYP. NON-FRAME COLUMN SPLICE (1)



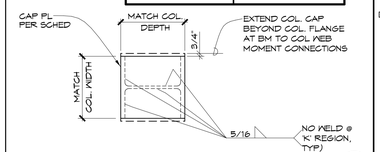
TYP. HSS COL. CAP PLATE (7)



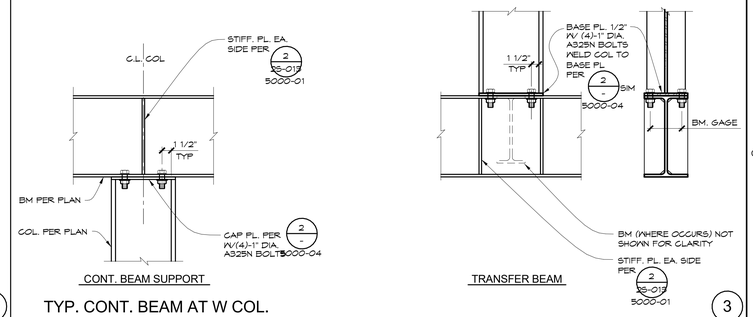
CAP PL THICKNESS SCHEDULE

CONDITION	tpl (MIN)
TYP	1/2"
MOMENT CONN	tf,bm + 1/2"
DAVIT CONN	1"
FRAME COL	SEE DETAIL 4/2S-306
HSS POST ABOVE	1"

TYP. W COL. CAP PLATE (2)

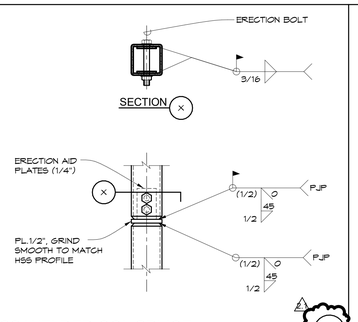


TYP. CONT. BEAM AT W COL. (3)

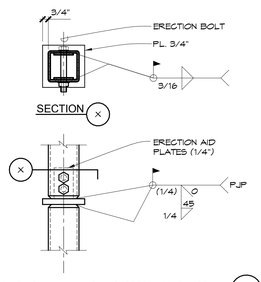


COLUMN SCHEDULE (13)

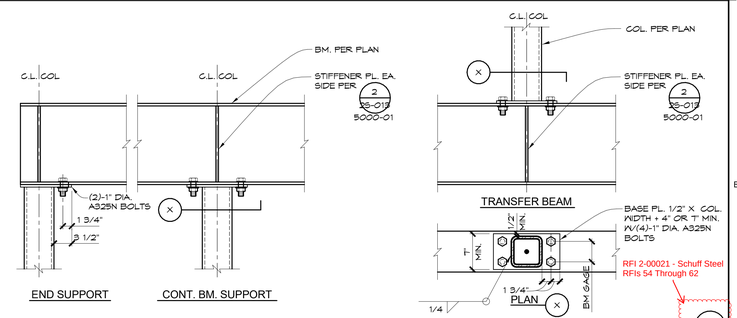
HSS WELDED COL SPLICE (19)



TYP. HSS OR PIPE WELDED COL SPLICE (14)

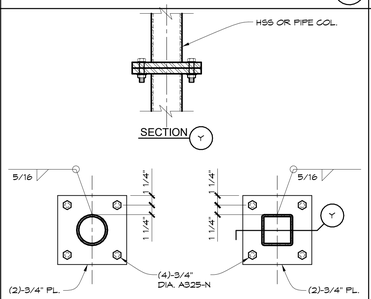


TYP. CONT. BM AT HSS OR PIPE COL. (4)

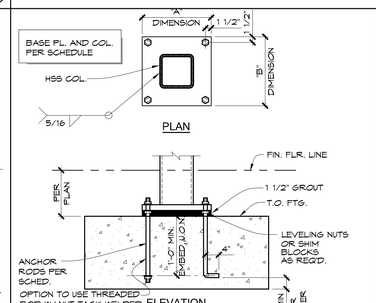


NOT USED (20)

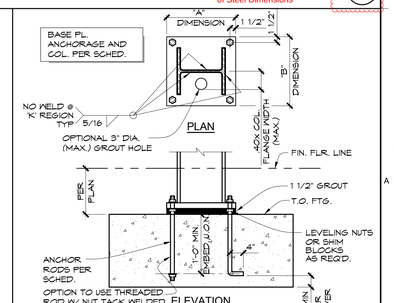
TYP. HSS OR PIPE BOLTED COL SPLICE (15)



TYP. HSS COL. BASE PLATE (10)



TYP. W COL. BASE PLATE (5)



GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

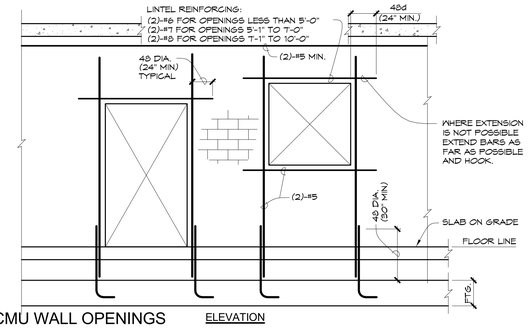
Sheet Title
TYPICAL DETAILS

Sheet No.
2S-015

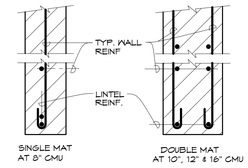
DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

8/4/2017 2:56:51 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



ELEVATION

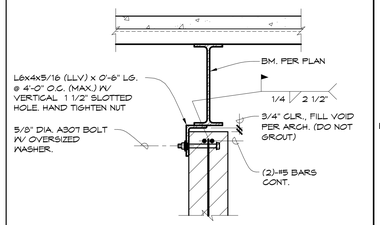


SECTION AT LINTEL

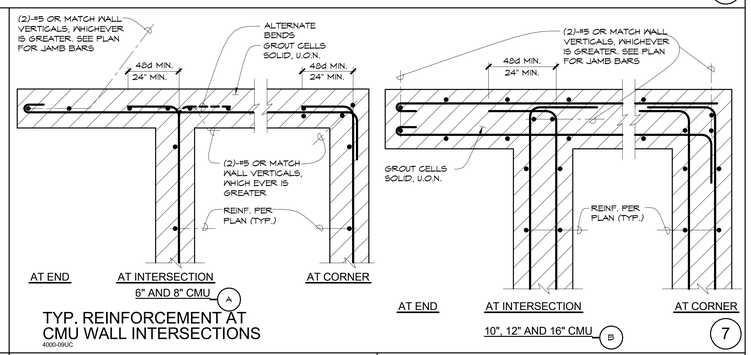
NOTES:
1. EXTEND JAMB BARS FLR. TO FLR., OR FLR. TO ROOF WHERE OPENING EXCEEDS 4'-0" IN WIDTH, OTHERWISE EXTEND 48 DIA. (2'-0" MIN.) PAST FACE OF OPENING.
2. PROVIDE THE FOLLOWING MINIMUM REINFORCING IN CMU WALLS UNLESS NOTED OTHERWISE.
   8" CMU - #4 @ 24" O.C. EA. WAY
   8" CMU - #5 @ 16" O.C. EA. WAY
   10" & 12" CMU - #5 @ 16" O.C. EA. WAY, EA. FACE

TYP. REINFORCEMENT AT CMU WALL OPENINGS
4000-10A

6

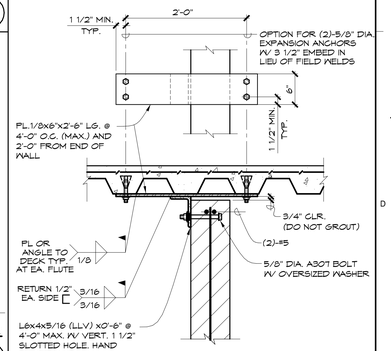


CMU WALL UNDER BEAM

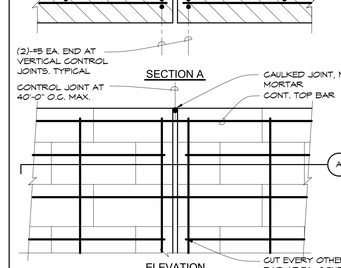


TYP. REINFORCEMENT AT CMU WALL INTERSECTIONS
4000-09OC

7



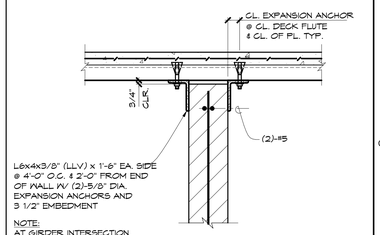
CMU WALL PARALLEL TO DECK



ELEVATION

TYP. CMU WALL CONTROL JOINT
4000-06UC

8

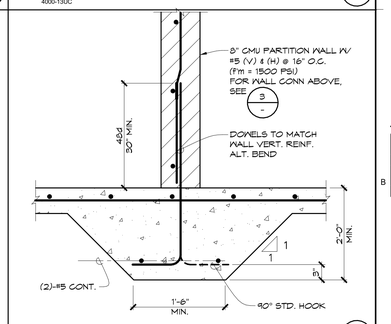


NOTE:
AT GIRDER INTERSECTION, PROVIDE 1" CLR. AROUND ALL SURFACES OF GIRDER.

CMU WALL PERPENDICULAR TO DECK

CMU PARTITION WALL TOP SUPPORT AT METAL DECK
4000-13UC

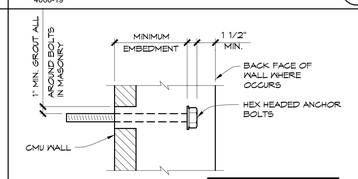
3



CMU WALL SHOVEL FOOTING

4

4000-19



NOTE:
MINIMUM BOLT SPACING SHALL BE 12 BOLT DIA. WITH A MINIMUM EDGE DISTANCE OF 6 DIA. AND A MIN. 6" TO END OF WALL.

BOLT SIZE	MINIMUM EMBEDMENT
1/2"	4"
5/8"	4"
3/4"	5"
7/8"	6"
1"	7"

BOLT EMBEDMENT SCHDULE
4000-20

5

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

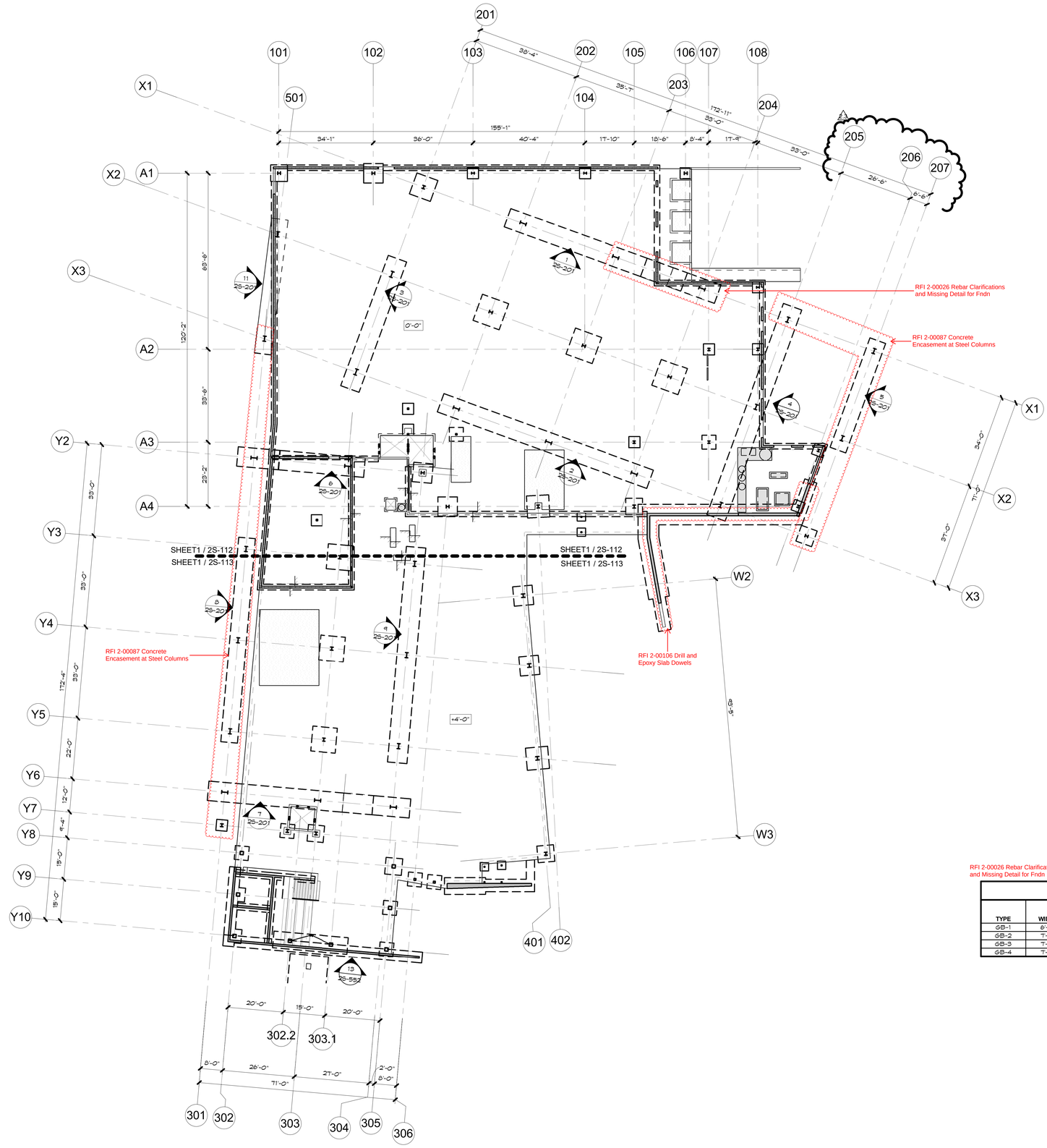
REV NO.	DATE ISSUED	REASON
	07.10.17	STRUCTURAL STEEL BID SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
TYPICAL DETAILS

Sheet No.
2S-016

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



FOUNDATION NOTES:

1. TOP OF CONCRETE SLAB ELEVATION = 0'-0" U.O.N. (DATUM = 391.00 VERIFY WITH CIVIL DRAWINGS.)
2. PRIOR TO THE CONTRACTOR REQUESTING BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.
3. VERIFY ALL DIMENSIONS WITH ARCH'L DRAWINGS. SEE ARCH FOR DIMENSIONS NOT SHOWN.
4. CONFIRM ALL SLAB ELEVATIONS, STEPS, SLOPES AND OPENINGS WITH ARCHITECT AND MEP DRAWINGS. REPORT DISCREPANCIES TO STRUCTURAL ENGINEER.
5. FOR NON FRAME COLUMN SIZES SEE COLUMN SCHEDULE ON SHEET 2S-015 FOR MOMENT FRAME COLUMN SIZES SEE FRAME ELEVATIONS ON SHEET 2S-201.
6. REFER TO SHEETS HB-1 THRU HB-5 FOR NOTES, DETAILS, AND PLAN LOCATIONS OF RAMMED AGGREGATE PIERS.
7. FOOTINGS TO HAVE A MINIMUM 24" EMBEDMENT UNLESS OTHERWISE NOTED.
8. ANCHORAGE OF NON-STRUCTURAL COMPONENTS SHALL BE BOLTED, WELDED OR OTHERWISE POSITIVELY FASTENED WITHOUT THE CONSIDERATION OF THE FRICTIONAL RESISTANCE PRODUCED BY THE EFFECT OF GRAVITY.

FOUNDATION LEGEND:

G2 / F5.0	FOOTING AND COLUMN MARK. SEE SCHEDULE ON THIS SHEET AND 13 / 2S-015 FOR COLUMN SCHEDULE
T.O. FTG. -2'-0"	TOP OF FOOTING ELEVATION, AS INDICATED
T.O.GB. -2'-0"	TOP OF GRADE BEAM ELEVATION, AS INDICATED
CF	INDICATES COLUMN PER FRAME ELEVATIONS PER SHEET 2S-201
GB-1	GRADE BEAM PER SCHEDULE ON THIS SHEET
3" MAX	INDICATES STEP IN SLAB SURFACE PER 15 / 2S-012. VERIFY HEIGHT, LOCATION & DIMENSIONS WITH ARCHITECTURAL DRAWINGS
	ELEVATION OR SECTION DRAWING (ILLUSTRATING MORE THAN ONE LEVEL)
	INDICATES SLAB DEPRESSION PER 15 / 2S-012. COORDINATE WITH ARCH DWGS. FOR DEPTH AND EXTENTS.

FOOTING SCHEDULE

TYPE	SIZE W	SIZE L	SIZE D	REINFORCEMENT	DETAIL
F3.0	3'-0"	3'-0"	1'-6"	(4)-#5	1 & 2/2S-541
F4.0	4'-0"	4'-0"	1'-6"	(5)-#5	
F5.0	5'-0"	5'-0"	1'-6"	(7)-#5	1 & 2/2S-541
F6.0	6'-0"	6'-0"	1'-6"	(8)-#5	1 & 2/2S-541
F7.0	7'-0"	7'-0"	1'-6"	(8)-#6	1 & 2/2S-541
F8.0	8'-0"	8'-0"	2'-0"	(10)-#6	1 & 2/2S-541
F9.0	9'-0"	9'-0"	2'-0"	(11)-#7	1 & 2/2S-541
F10.0	10'-0"	10'-0"	2'-6"	(12)-#7	1 & 2/2S-541

GRADE BEAM SCHEDULE

TYPE	WIDTH	DEPTH	TOP REINF. CONT.	BOTT. REINF. CONT	TIE REINFORCEMENT SIZE AND SPACING	TIE REINFORCEMENT # OF LEGS	DETAIL	COMMENTS
GB-1	6'-0"	3'-0"	(8)-#8	(8)-#8	#4 @ 12"	(6)	7/2S-541	
GB-2	7'-0"	3'-0"	(11)-#8	(11)-#10	#4 @ 12"	(6)	7/2S-541	
GB-3	7'-0"	4'-0"	(11)-#8	(11)-#8		(6)		
GB-4	7'-0"	4'-0"	(10)-#10	(10)-#10	#4 @ 12"	(6)	7/2S-541	

RFI 2-00026 Rebar Clarifications and Missing Detail for Fndn

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
OVERALL FOUNDATION PLAN

Sheet No.
2S-111

1 OVERALL FOUNDATION PLAN
1/16" = 1'-0"

SCALE: 1/16" = 1'

11/17/2017 11:38:43 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

1/18/2018 4:53:14 PM
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RFI 2-00023 Drop Ftg Add Pedestal at 106 and A1

RFI 2-00015 Approval to Omit Specified Vibro-Piers

RFI 2-00057 Anchor Bolt Blockout Conflict

RFI 2-00048 Elevator Steel Clarification

RFI 2-00047 Conduits Running Vertical Inside CIP

RFI 2-00054 Elevator Pit Wall Bust - 2017.12.07

RFI 2-00016 Drop Footing and Add Pedestal North of Elevator

RFI 2-00090 Stair 8 Steel Framing Clarifications

RFI 2-00056 Step Ftg at A4 - 105 Wall

RFI 2-00058 Confirm Sanitary Waste Main vs Angle of Repose

RFI 2-00057 Anchor Bolt Blockout Conflict

RFI 2-00044 Waste Piping Through Grade Beam at Gridlines X2 & 205

RFI 2-00022 Water Piping through Grade Beam - 2017.12.06

RFI 2-00045 Geopier Reqt at New Column Locations

RFI 2-00039.2 Update and Additional Information to RFI 2-00039.1

RFI 2-00024 Confirm 2' Minimum Bearing Depth

RFI 2-00069 Slab on Grade Dimensions

RFI 2-00039 Foundation Dimensions Verification

8" THICK SLAB ON GRADE WITH #4 AT 12" O.C. EACH WAY AT LOADING DOCK, WAREHOUSE & HIGH PILE STORAGE AREA PER 11 / 25-012

TOP OF SLAB ELEV. = 0'-0", U.O.N

(10)-#5 @ 12" O.C. x 10'-0" EA WAY BOT. CENTERED UNDER MEZZ. COLUMN. (TYP. 9 LOCATIONS)

12" THICK x 10' SQ. SLAB W/ #6 @ 9" EA WAY BOT. CENTER UNDER MEZZ. COLUMN (TYP. 7 LOCATIONS)

SHEET1 / 2S-113

SHEET1 / 2S-113

FOUNDATION NOTES:

1. FOR FOUNDATION NOTES & LEGEND SEE SHEET 2S-111.

1 **FOUNDATION PLAN - PART A**

1/8" = 1'-0"

SCALE: 1/8" = 1'

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
FOUNDATION PLAN - PART A

Sheet No.
2S-112

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

10/2/2017 11:42:49 AM
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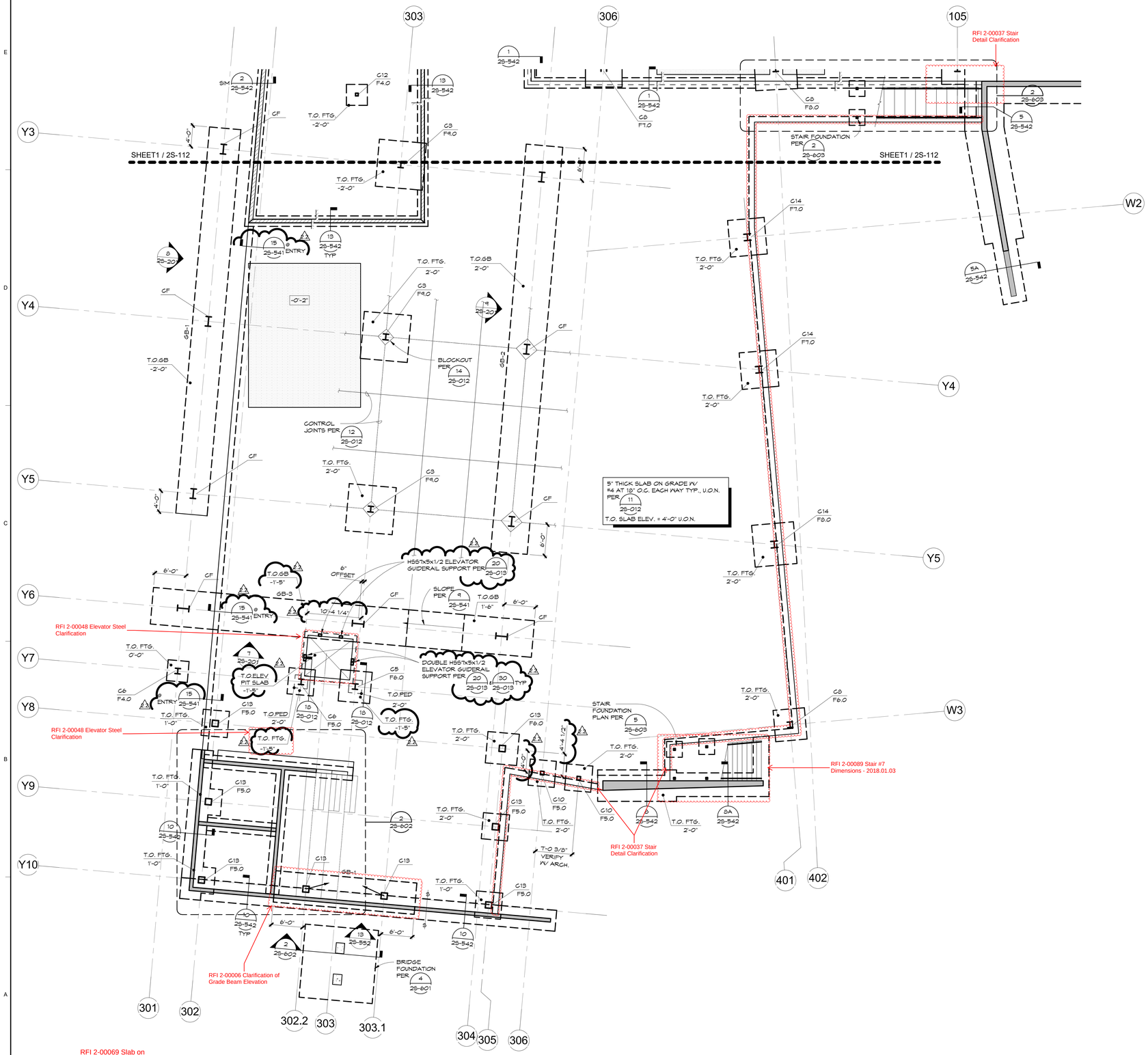

FOUNDATION NOTES:

1. FOR FOUNDATION NOTES & LEGEND SEE SHEET 2S-111.

1 **FOUNDATION PLAN - PART B**

1/8" = 1'-0"

SCALE: 1/8" = 1'

RFI 2-00039 Foundation Dimensions Verification

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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2.2	10.03.17	ADDENDUM #2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
FOUNDATION PLAN - PART B

Sheet No.
2S-113

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

11/17/2017 11:39:45 AM
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WALKABLE CEILING LEGEND:

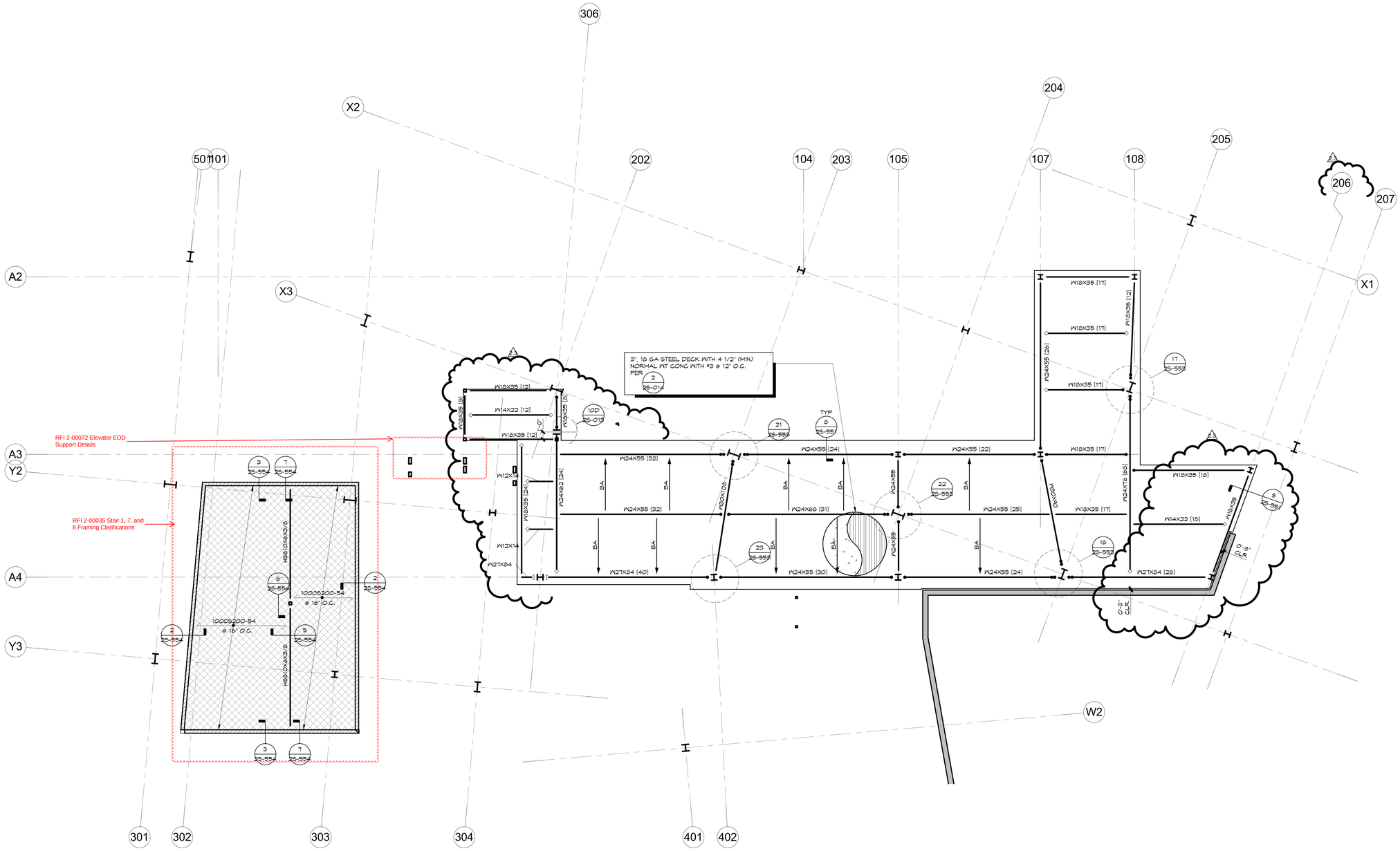
- DIRECTION OF JOIST SPAN
- WALKABLE CEILING AREA
- CMU PARTITION WALL PER 4/25-016

WALKABLE CEILING NOTES:

1. VERIFY A.F.F ELEVATION, WALL LOCATION, WALL LENGTH, AND WALL HEIGHT WITH ARCHITECTURAL.
2. PROVIDE SHEET METAL WALKABLE SURFACE PER 1/25-554
3. PROVIDE BRIDGING PER 4/25-554 EVERY OTHER SET OF JOISTS
4. ALL CEILING JOISTS SHALL BE 10000S200-54 (10", 16 GA) @ 16" O.C. (U.O.N.)

MEZZANINE FRAMING NOTES:

1. TOP OF STEEL ELEVATION = 10'-4 1/2"
2. TOP OF CONCRETE ELEVATION = 11'-0"
3. FOR ADDITIONAL NOTES AND LEGEND SEE SHEET 2S-121



1	**MEZZANINE AND WALKABLE CEILING FRAMING PLAN** RFI 2-00066 Clarification to EOS Locations & Dimensions
	1/8" = 1'-0"

GENE THEORY -
CP-2
VOLUME 1

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REDWOOD CITY, CA 94063

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2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
MEZZANINE & WALKABLE CEILING FRAMING PLAN

Sheet No.
2S-114

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 11:39:52 AM
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FLOOR FRAMING NOTES:

1. TOP OF STEEL ELEVATION = 22'-1 3/4" U.O.N.
2. TOP OF CONCRETE ELEVATION = 22'-0" U.O.N.
3. WHERE SPACING OF BEAMS NOT INDICATED, PROVIDE EQUAL SPACING WITHIN EACH BAY.
4. WHERE 3" STEEL FLOOR DECK WITH CONCRETE FILL IS INDICATED, STEEL DECK SHALL BE 20 GA. VERCO PLN3 FORMLOCK VENTED AND GALVANIZED (IAPMO UES ER-0217)OR APPROVED EQUAL. U.O.N., MAX. SPAN = 11'-6" (MIN. 2 SPAN) OR 10'-6" (SINGLE SPAN).
5. WHERE 1 1/2" STEEL FLOOR DECK WITH CONCRETE FILL IS INDICATED, STEEL DECK SHALL BE 18 GA. VERCO PLB FORMLOK VENTED AND GALVANIZED (IAPMO UES ER-0217) OR APPROVED EQUAL, U.O.N. MAX. SPAN = 9'-6" (MIN. 2 SPAN) OR 8'-6" (SINGLE SPAN).
6. THE CONCRETE FLOOR THICKNESS SHALL BE PLACED AND MONITORED PER 4 / 2S-014
7. FOR SIZE AND LOCATIONS OF CURBS AND SLAB OPENINGS, REFER TO ARCH. DWGS.
8. WHERE FLOOR FINISHES HAVE MORE STRINGENT REQUIREMENTS FOR LEVELNESS, FLATNESS OR MOISTURE BARRIER MAY BE APPLIED. THE DESIGN OF THE FLOOR ACCOUNTS FOR AN AVERAGE THICKNESS OF 3/8" AND A MAXIMUM OF 3/4" OF LEVELING AGENT.
9. SEE GENERAL NOTES AND TYP. DETAILS FOR INFO NOT REFERENCED. TYPICAL DETAILS SHALL BE FOLLOWED WHERE APPLICABLE WHETHER OR NOT THEY ARE REFERENCED ON PLAN.
10. SEE ARCHITECTURAL DRAWINGS FOR
    A) SLAB EDGE DIMENSION
    B) OPENING SIZES AND LOCATIONS
    C) SLOPES AND DEPRESSION SIZES AND LOCATIONS
    D) SLAB ELEVATIONS
    E) CURB LOCATIONS

    COLUMNS ARE CENTERED ON GRID LINES UNLESS DIMENSIONED OTHERWISE.
11. ANCHORAGE OF NON-STRUCTURAL COMPONENTS SHALL BE BOLTED, WELDED OR OTHERWISE POSITIVELY FASTENED WITHOUT THE CONSIDERATION OF THE FRICTIONAL RESISTANCE PRODUCED BY THE EFFECT OF GRAVITY.

FLOOR FRAMING LEGEND:

- MOMENT FRAME CONNECTION PER FRAME ELEVATIONS.
- W18x50 [30] — BEAM SIZE AND STUD COUNT. U.O.N., STUDS ARE TO BE DISTRIBUTED UNIFORMLY OVER ENTIRE LENGTH OF BEAM. IF DECK CELL LAYOUT IS SUCH THAT UNIFORM DISTRIBUTION IS NOT POSSIBLE. PLACE EXTRA CONNECTORS TOWARD EACH END OF BEAM STUD LENGTH PER 5 / 2S-014
- (c=1") — UPWARD CAMBER AT MIDSPAN
- (-6") — TOP OF STEEL (RELATIVE TO TYPICAL STEEL ELEVATION)
- BA — BRACE ANGLE PER 3 / 2S-013; BOTT. FLANGE CONNECTION
- MOMENT JOINT BRACE ANGLE PER 3 / 2S-013; SPACING PER 24 / 2S-202
- FULL HEIGHT STIFFENER PLATE PER 2 / 2S-013
- USE OF A325SC (SLIP CRITICAL) BOLTS AT BEAM CONNECTION, PER 1 / 2S-202
- INDICATES SLAB DEPRESSION PER 13 / 2S-551; COORDINATE WITH ARCH DWGS.
- INDICATES STEP IN CONCRETE/STEEL DECK PER 10 / 2S-551
- W — WELDED DRAG CONNECTION PER 2 / 2S-202

RFI 2-00040 Sequence 1 Steel (RFIs 73 - 76)

1 OVERALL SECOND LEVEL FRAMING PLAN
1/16" = 1'-0"

0 8' 16' 32'
SCALE: 1/16" = 1'

N

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
OVERALL SECOND LEVEL FRAMING PLAN

Sheet No.
2S-121

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 11:40:01 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

SHADED AREA DENOTES 1 1/2", 18 GA. STEEL DECK W/ 3 1/4" (MIN) TO 4 3/4" (MAX) LT.WT. CONC. W/ #3@18" O.C. PER 7/2S-014. EXACT LOCATION OF SLAB DEPRESSION PER ARCH.

3", 20 GA. STEEL DECK W/ 3 1/4" (MIN) LT.WT. CONC. W/ #3@18" O.C. PER 2/2S-014

RFI 2-00040 Sequence 1 Steel (RFIs 73 - 76)

RFI 2-00052 Openings Modified by ASI 2.1 Sequence 1 Steel

RFI 2-00021 - Schuff Steel RFIs 54 Through 62

RFI 2-00036 Schuff Steel RFIs 41, 63, and 68

RFI 2-00040 Sequence 1 Steel (RFIs 73 - 76)

RFI 2-00034 Order Fulfillment- Clarification to Cold Room Floor Drain Locations & Depressed Slabs

RFI 2-00034.1 Revision to RFI 2-00034 to Provide Final Direction on Floor Sinks-Drains Locations

RFI 2-00102 Confirm Current Conduit Bank Conditions & Updates to Freezer Room Slab are Acceptable

RFI 2-00040 Sequence 1 Steel (RFIs 73 - 76)

RFI 2-00052 Openings Modified by ASI 2.1 Sequence 1 Steel

AT GREEN ROOF 3", 18 GA. STEEL DECK W/ 4 1/2" (MIN) NORMAL WT. CONC. W/ #3@12" O.C. PER 2/2S-014

TOP OF STEEL AT GREEN ROOF ALONG GRIDLINE 6 = 20'-6"

TOP OF STEEL AT GREEN ROOF ALONG GRIDLINE 6 = 20'-6"

FLOOR FRAMING NOTES:

1. FOR FRAMING NOTES AND LEGENDS, SEE SHEET 2S-121.
2. DETAILS 8/2S-553 AND 13/2S-553 CONFORM TO THE CONFINEMENT DETAIL AS REQUIRED BY CONDITION #2 ON CITY OF LOS ANGELES REPORT #RR-25746 (TILE TECH PAVERS PEDESTAL SYSTEM) AND PROVIDES SEISMIC STABILITY AS REQUIRED THEREON.

NOTE: TOP OF STEEL AT STEPPED GREEN ROOF = 17'-2 1/2" U.O.N.

2 FRAMING PLAN AT STEPPED GREEN ROOF
1/8" = 1'-0"

1 SECOND LEVEL FRAMING PLAN - PART A
1/8" = 1'-0"

RFI 2-00007 Clarification for Missing Tie-in Dimensions

RFI 2-00007.1 Clarification for Missing Tie-in Dimensions Revision

RFI 2-00059 Sequence 1 Steel Missing Dimensions

RFI 2-00066 Clarification to EOS Locations & Dimensions

SCALE: 1/8" = 1'

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

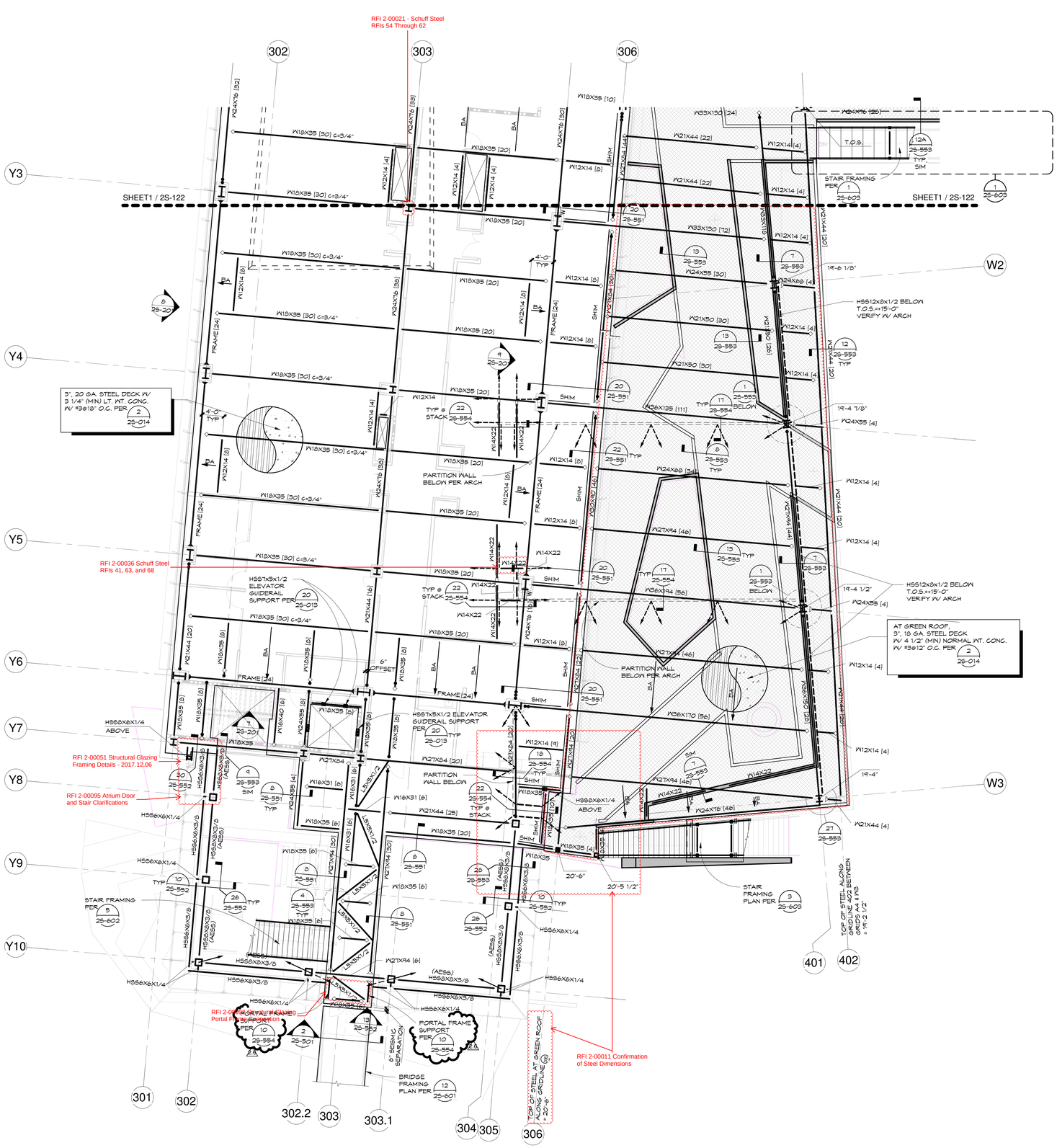
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
SECOND LEVEL FRAMING PLAN - PART A

Sheet No.
2S-122

1/18/2018 4:56:09 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



FLOOR FRAMING NOTES:

1. FOR FRAMING NOTES AND LEGENDS, SEE SHEET 2S-121.
2. DETAILS 8/2S-553 AND 13/2S-553 CONFORM TO THE CONFINEMENT DETAIL AS REQUIRED BY CONDITION #2 ON CITY OF LOS ANGELES REPORT RR-25746 (TILE TECH PAVERS PEDESTAL SYSTEM) AND PROVIDES SEISMIC STABILITY AS REQUIRED THEREON.

1	SECOND LEVEL FRAMING PLAN - PART B	RFI 2-00007 Clarification for Missing Tie-in Dimensions	RFI 2-00007.1 Clarification for Missing Tie-in Dimensions Revision	RFI 2-00059 Sequence 1 Steel Missing Dimensions
	1/8" = 1'-0"	RFI 2-00066 Clarification to EOS Locations & Dimensions		

0 4' 8' 16'
SCALE: 1/8" = 1'

N

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

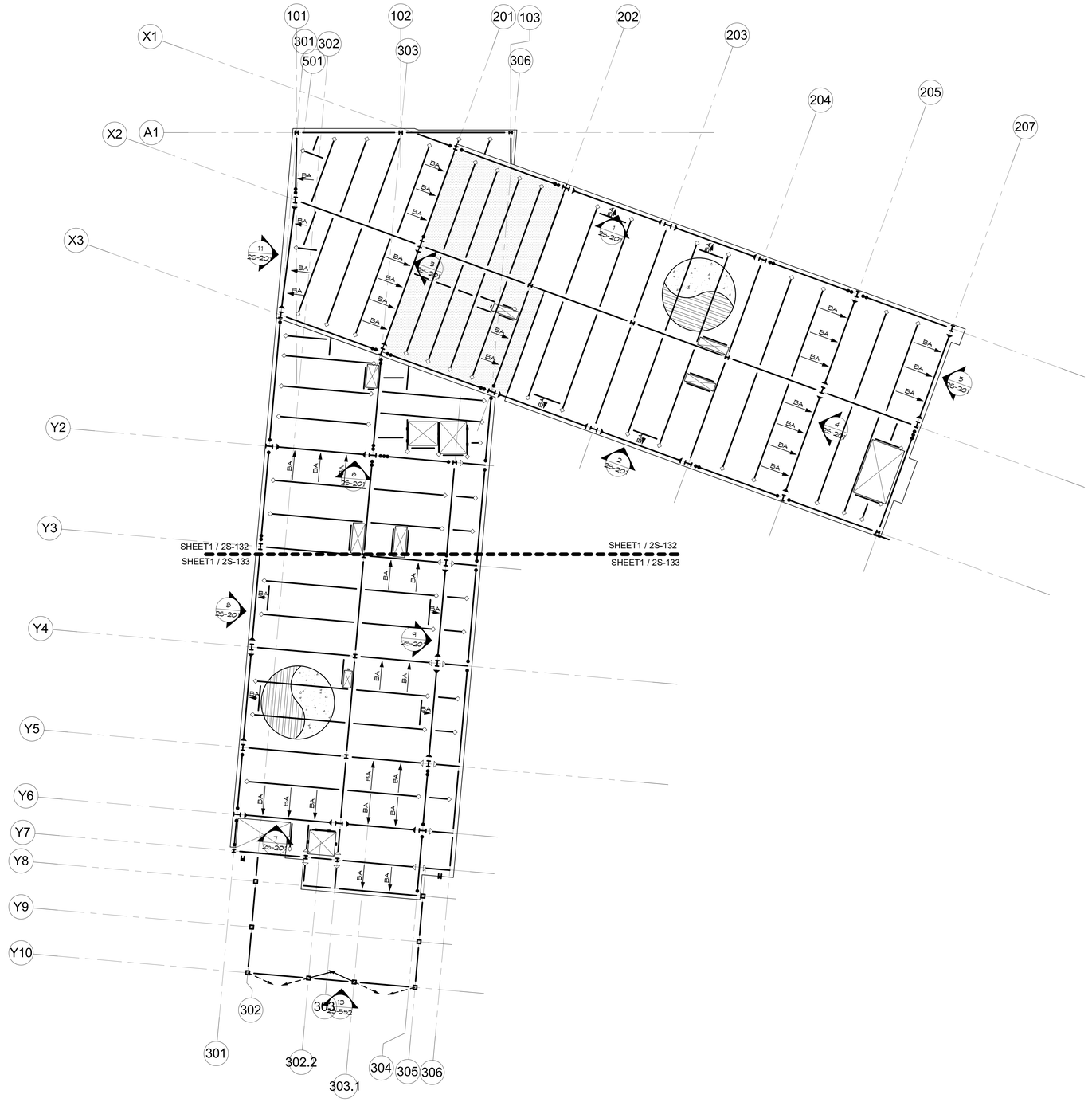
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
SECOND LEVEL FRAMING PLAN - PART B

Sheet No.
2S-123

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002



FLOOR FRAMING NOTES:

1. TOP OF STEEL ELEVATION = 38'-1 3/4"
2. TOP OF CONCRETE ELEVATION = 38'-0"
3. FOR ADDITIONAL NOTES AND LEGEND, SEE SHEET 2S-121

1 **OVERALL THIRD LEVEL FRAMING PLAN**

1/16" = 1'-0"

0 8' 16' 32'

SCALE: 1/16" = 1'

N

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL
THIRD LEVEL
FRAMING PLAN

Sheet No.

2S-131

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

8/29/2017 11:28:06 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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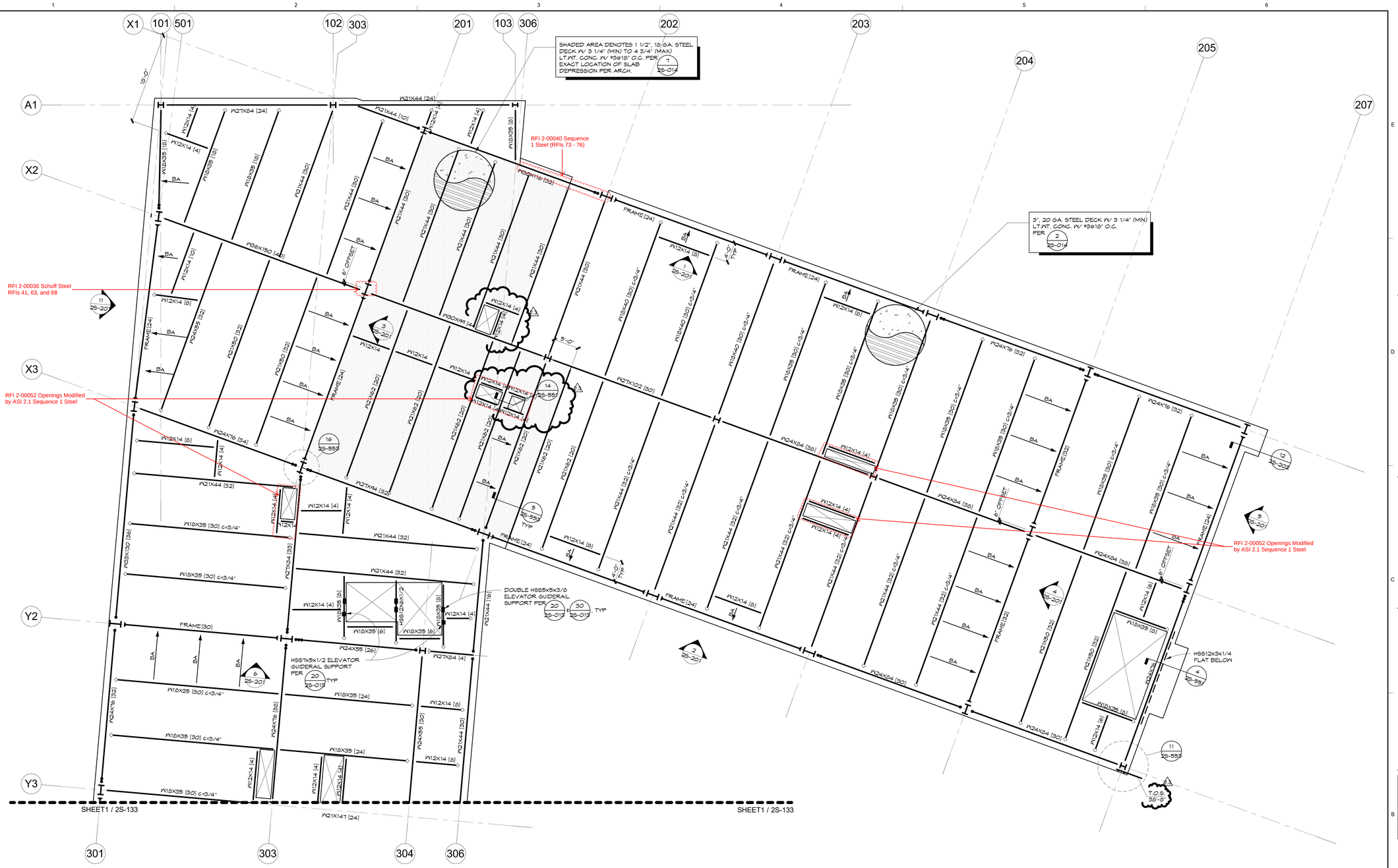
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



FLOOR FRAMING NOTES:

1. FOR FRAMING NOTES AND LEGENDS, SEE SHEET 2S-131.

1 **THIRD LEVEL FRAMING PLAN - PART A**

1/8" = 1'-0"

RFI 2-00007 Clarification for Missing Tie-in Dimensions

RFI 2-00007.1 Clarification for Missing Tie-in Dimensions Revision

RFI 2-00066 Clarification to EOS Locations & Dimensions

SCALE: 1/8" = 1'

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

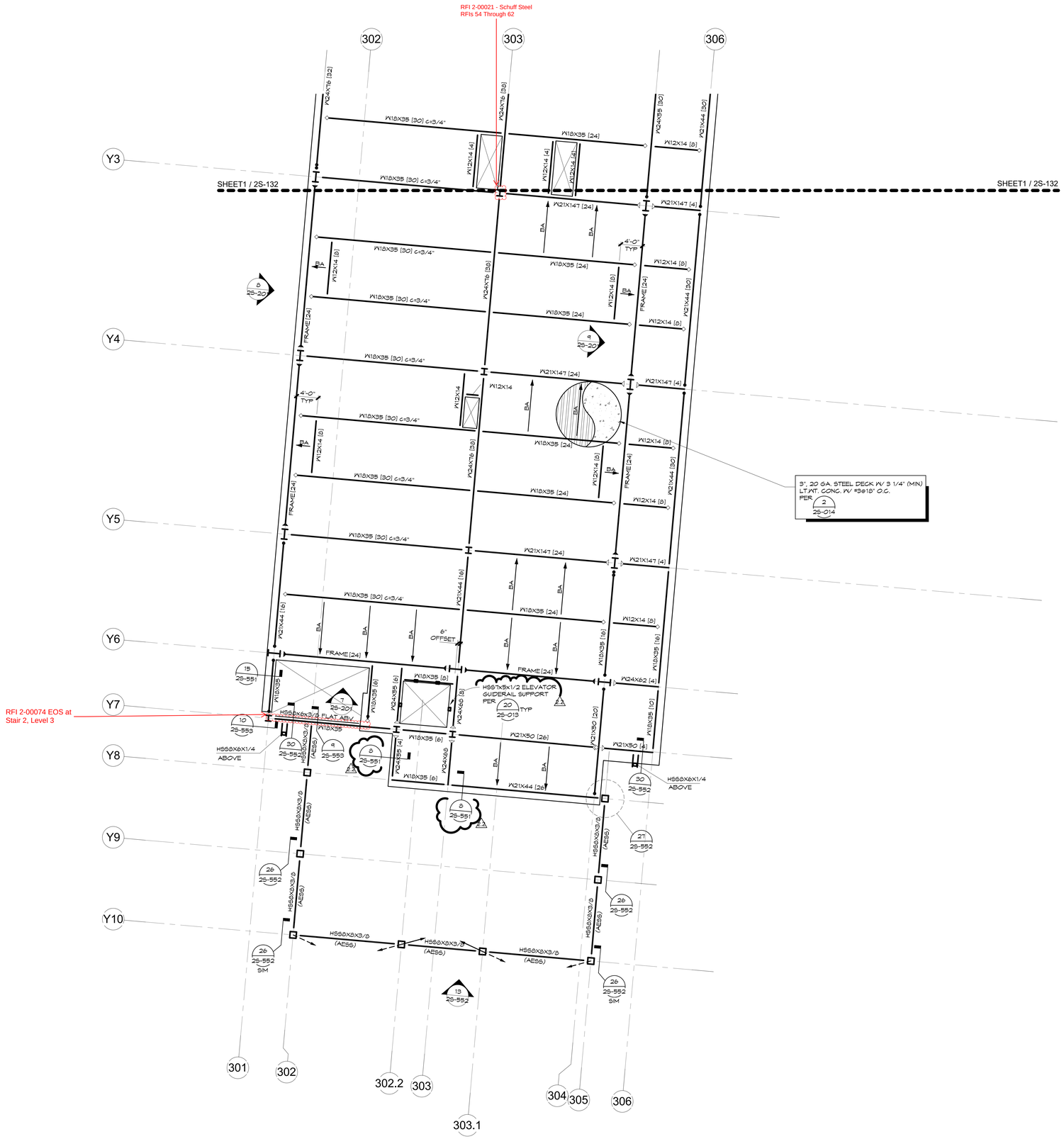
Sheet Title
THIRD LEVEL FRAMING PLAN - PART A

Sheet No.
2S-132

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 11:43:38 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

RFI 2-00021 - Schuff Steel
RFIs 54 Through 62



FLOOR FRAMING NOTES:

1. FOR FRAMING NOTES AND LEGENDS, SEE SHEET 2S-131.

1	THIRD LEVEL FRAMING PLAN - PART B	RFI 2-00007 Clarification for Missing Tie-in Dimensions	RFI 2-00007.1 Clarification for Missing Tie-in Dimensions Revision	RFI 2-00066 Clarification to EOS Locations & Dimensions
	1/8" = 1'-0"			

0 4' 8' 16'
SCALE: 1/8" = 1'

N

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2

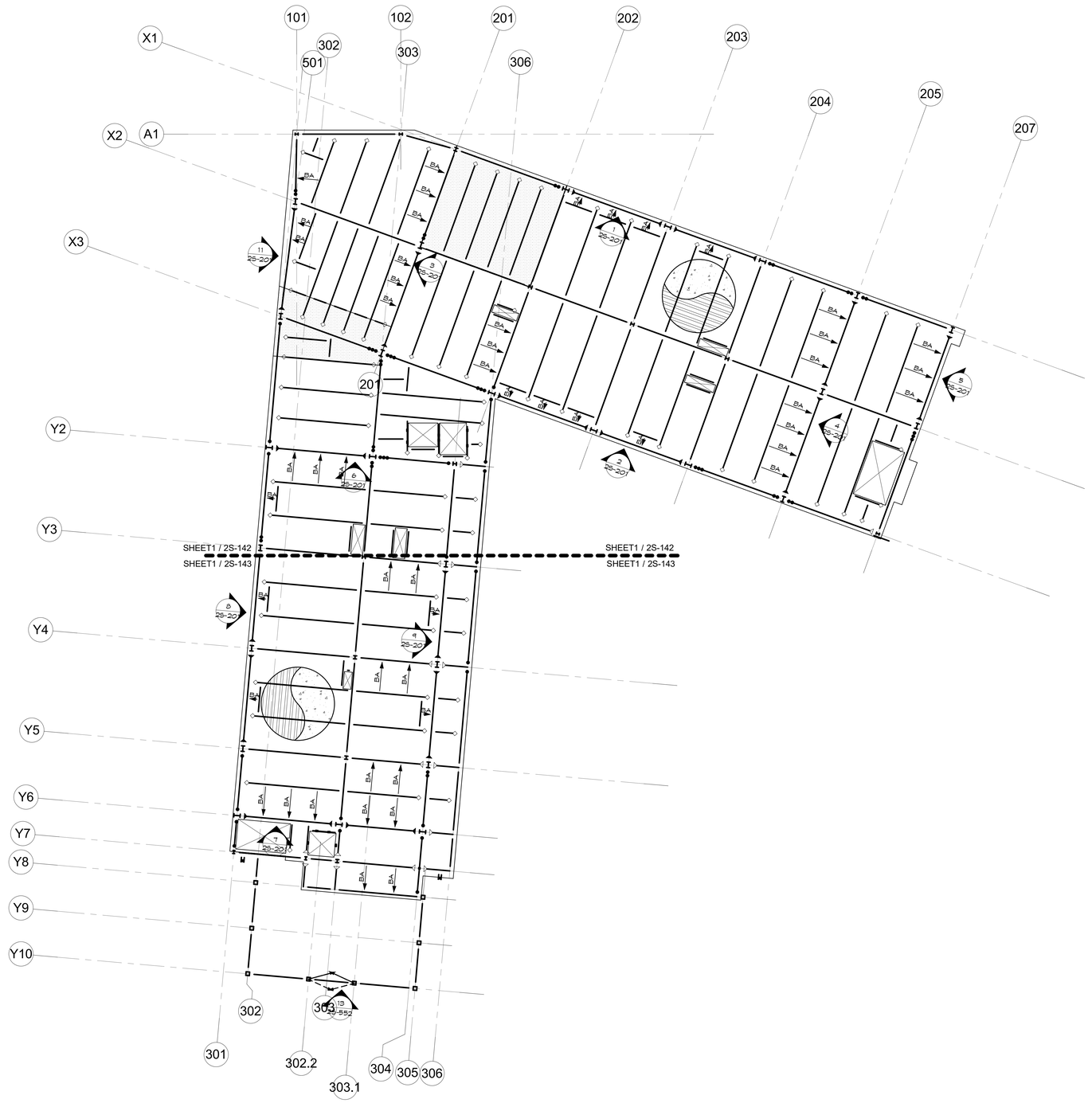
CITY SUBMITTAL SET
08.08.17

Sheet Title
THIRD LEVEL FRAMING PLAN - PART B

Sheet No.
2S-133

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

8/29/2017 11:28:31 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



FLOOR FRAMING NOTES:

1. TOP OF STEEL ELEVATION = 54'-1 3/4"
2. TOP OF CONCRETE ELEVATION = 54'-0"
3. FOR ADDITIONAL NOTES AND LEGEND, SEE SHEET 2S-121

1 **OVERALL FOURTH LEVEL FRAMING PLAN A**

1/16" = 1'-0"

0 8' 16' 32'
SCALE: 1/16" = 1'

N

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
OVERALL FOURTH LEVEL FRAMING PLAN

Sheet No.
2S-141

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

11/17/2017 11:40:58 AM
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SHADED AREA DENOTES 1 1/2", 18 GA. STEEL DECK W/ 3 1/4" (MIN) TO 4 3/4" (MAX) LT.WT. CONC. W/ #3@18" O.C. PER EXACT LOCATION OF SLAB DEPRESSION PER ARCH. (7 / 2S-014)

3", 20 GA. STEEL DECK W/ 3 1/4" (MIN) LT.WT. CONC. W/ #3@18" O.C. PER (2 / 2S-014)

SHADED AREA DENOTES 1 1/2", 18 GA. STEEL DECK W/ 3 1/4" (MIN) TO 4 3/4" (MAX) LT.WT. CONC. W/ #3@18" O.C. PER EXACT LOCATION OF SLAB DEPRESSION PER ARCH. (7 / 2S-014)

RFI 2-00040 Sequence 1 Steel (RFIs 73 - 76)

RFI 2-00091 Level 3 Steel Framing Protected Zone Infraction

RFI 2-00063 Locations of Beams Near Cold Rooms

RFI 2-00093 Beam Location at Cold Room L3

DOUBLE HSS5x5x3/8 ELEVATOR GUIDERAIL SUPPORT PER (20 / 2S-013) & (30 / 2S-013), TYP

HSS7x5x1/2 ELEVATOR GUIDERAIL SUPPORT PER (20 / 2S-013) TYP

HSS12x3x1/4 FLAT BELOW (4 / 2S-55)

SHEET1 / 2S-143

SHEET1 / 2S-143

FLOOR FRAMING NOTES:

1. FOR FRAMING NOTES AND LEGENDS, SEE SHEET 2S-141.

1 **FOURTH LEVEL FRAMING PLAN - PART A**

RFI 2-00008 Clarification for Missing Tie-in Dimensions

RFI 2-00008.1 Clarification for Missing Tie-in Dimensions Revision

1/8" = 1'-0"

0 4' 8' 16'

SCALE: 1/8" = 1'

N

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

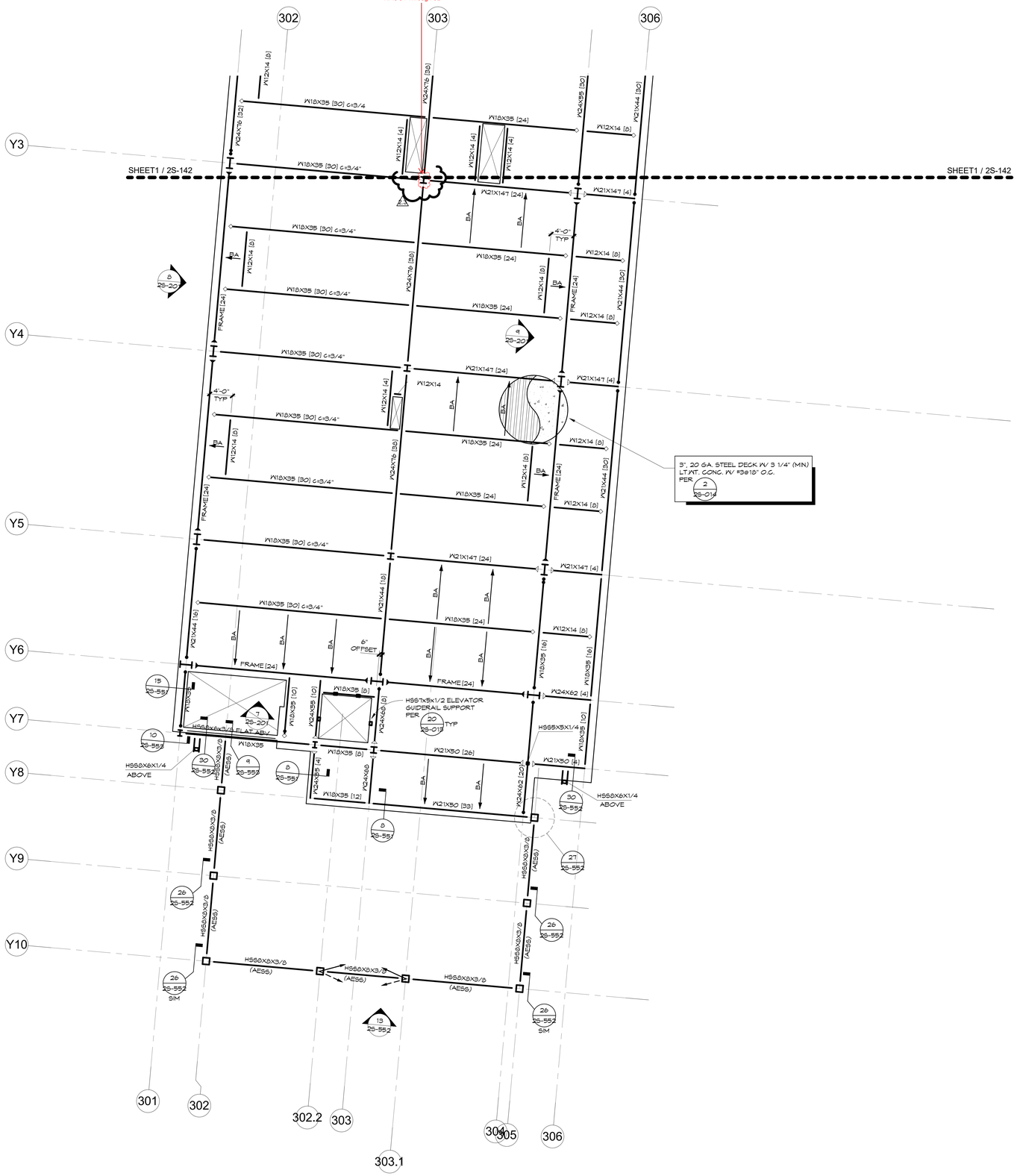
Sheet Title
FOURTH LEVEL FRAMING PLAN - PART A

Sheet No.
2S-142

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/7/2017 11:41:06 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

RFI 2-00021 - Schuff Steel
RFIs 54 Through 62



FLOOR FRAMING NOTES:

1. FOR FRAMING NOTES AND LEGENDS, SEE SHEET 2S-141.

1	FOURTH LEVEL FRAMING PLAN - PART B	RFI 2-00008 Clarification for Missing Tie-in Dimensions	RFI 2-00008.1 Clarification for Missing Tie-in Dimensions Revision
	1/8" = 1'-0"		

0 4' 8' 16'
SCALE: 1/8" = 1'

N

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
FOURTH LEVEL FRAMING PLAN - PART B

Sheet No.
2S-143

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



ROOF FRAMING NOTES:

1. TOP OF STEEL ELEVATION PER PLAN.
2. WHERE SPACING OF BEAMS NOT INDICATED, PROVIDE EQUAL SPACING WITHIN EACH BAY.
3. COORDINATE W/ MECHANICAL DRAWINGS FOR LOCATION AND SIZES OF MECHANICAL EQUIPMENTAND OPENINGS.
4. FOR SIZE AND LOCATIONS OF CURBS AND SLAB OPENINGS, REFER TO ARCHITECTURAL OR MECHANICAL DRAWINGS.
5. STEEL DECK SHALL BE 20 GA. VERCO W3 FORMLOCK VENTED AND GALVANIZED (IAPMO UES ER-0217)OR APPROVED EQUAL. U.O.N. MAX. SPAN = 11'-6" (MIN. 2 SPAN) OR 10'-6" (SINGLE SPAN)

ROOF FRAMING LEGEND:

- MOMENT FRAME CONNECTION PER FRAME ELEVATIONS.
- W18x50 [30] — BEAM SIZE AND STUD COUNT. U.O.N., STUDS ARE TO BE DISTRIBUTED UNIFORMLY OVER ENTIRE LENGTH OF BEAM. IF DECK CELL LAYOUT IS SUCH THAT UNIFORM DISTRIBUTION IS NOT POSSIBLE, PLACE EXTRA CONNECTORS TOWARD EACH END OF BEAM STUD LENGTH PER 5/2S-014
- (c=1") — UPWARD CAMBER AT MIDSPAN
- BA — BRACE ANGLE PER 3/2S-013; BOTT. FLANGE CONNECTION
- MOMENT JOINT BRACE ANGLE PER 3/2S-013; SPACING PER 2A/2S-202
- FULL HEIGHT STIFFENER PLATE PER 2/2S-013
- USE OF A325SC (SLIP CRITICAL) BOLTS AT BEAM CONNECTION, PER 1/2S-202

1 OVERALL ROOF FRAMING PLAN

1/16" = 1'-0"

0 8' 16' 32'

SCALE: 1/16" = 1'

N

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL
ROOF
FRAMING PLAN

Sheet No.

2S-151

8/29/2017 11:28:56 AM
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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

11/17/2017 11:38:34 AM

RFI 2-00094 Steel Roof Opening Clarifications

RFI 2-00021 - Schuff Steel RFIs 54 Through 62

3", 20 GA. STEEL DECK W/ 2 1/2" (MIN) LT.WT. CONC. W/ #3@18" O.C. PER 2/2S-014

DOUBLE HSS5x5x3/8 ELEVATOR GUIDERAIL SUPPORT PER 20/2S-013 & 30/2S-013 TYP

HSS6x6x1/4 POSTS ABV (5 TOTAL)

HSS7x5x1/2 ELEVATOR GUIDERAIL SUPPORT PER 20/2S-013 TYP

TOP OF STEEL AT GRIDLINE (1) = 10'-1 1/2"

TOP OF STEEL AT GRIDLINE (2) = 11'-1 1/2"

TOP OF STEEL AT GRIDLINE (3) = 10'-4 5/8"

TOP OF STEEL AT GRIDLINE (4) = 10'-1 1/2"

TOP OF STEEL AT GRIDLINE (5) = 10'-1 1/2"

TOP OF STEEL AT GRIDLINE (6) (EAST OF GRID 201) = 11'-1 1/2"

TOP OF STEEL AT GRIDLINE (6) = 10'-1 1/2"

T.O.S. 64'-1 1/2"

8'-3 3/4"

SHEET1 / 2S-153

SHEET1 / 2S-153

ROOF FRAMING NOTES:

1. FOR FRAMING NOTES AND LEGENDS, SEE SHEET 2S-151.

1	ROOF FRAMING PLAN - PART A	RFI 2-00008 Clarification for Missing Tie-in Dimensions RFI 2-00008.1 Clarification for Missing Tie-in Dimensions Revision	SCALE: 1/8" = 1'
	1/8" = 1'-0"		

0 4' 8' 16'

N

GENE THEORY - CP-2

VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

ROOF FRAMING PLAN - PART A

Sheet No.

2S-152

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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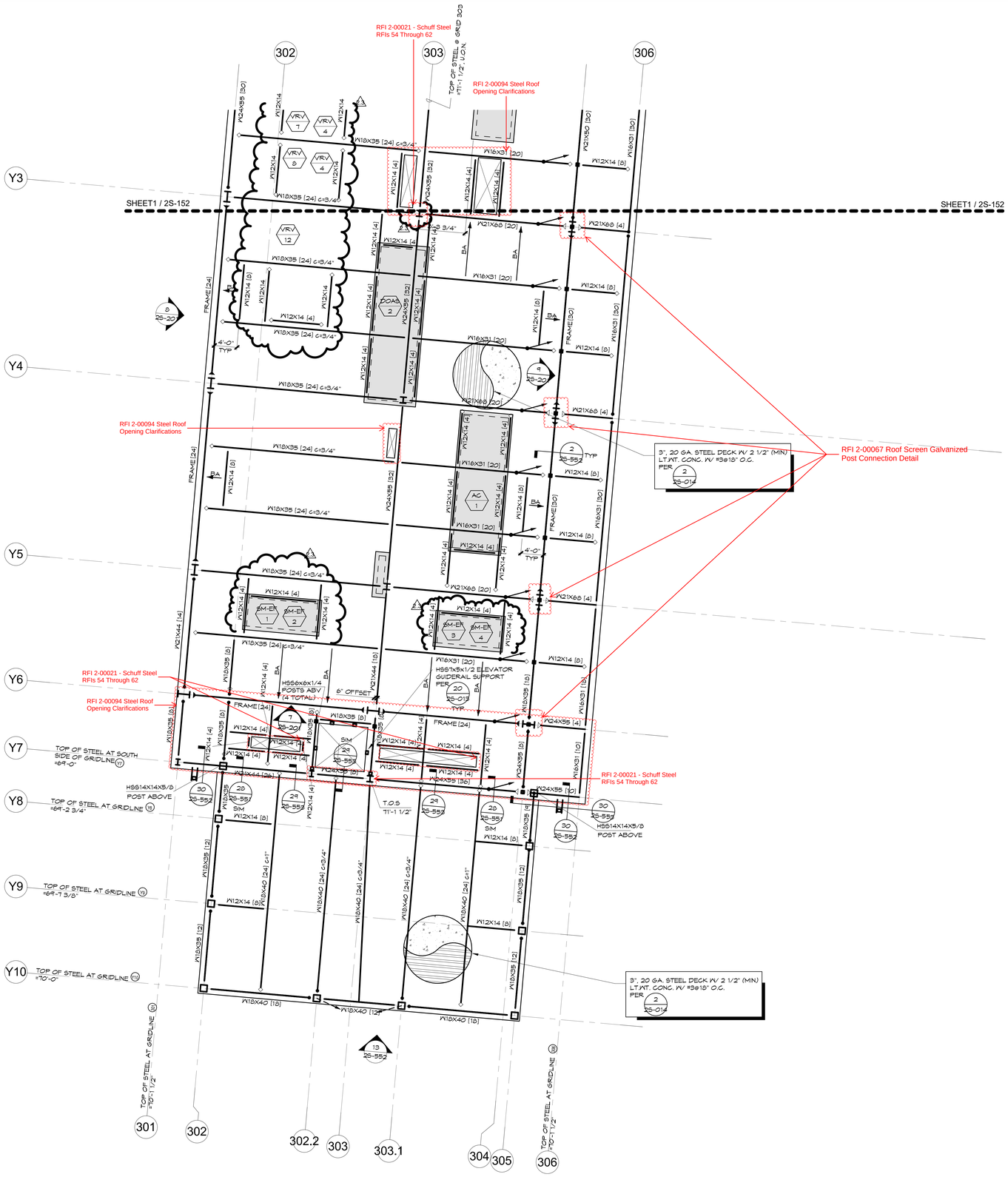


ROOF FRAMING NOTES:

1. FOR FRAMING NOTES AND LEGENDS, SEE SHEET 2S-151.

1	**ROOF FRAMING PLAN - PART B**	RFI 2-00008 Clarification for Missing Tie-in Dimensions; RFI 2-00008.1 Clarification for Missing Tie-in Dimensions Revision
	1/8" = 1'-0"	SCALE: 1/8" = 1'

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

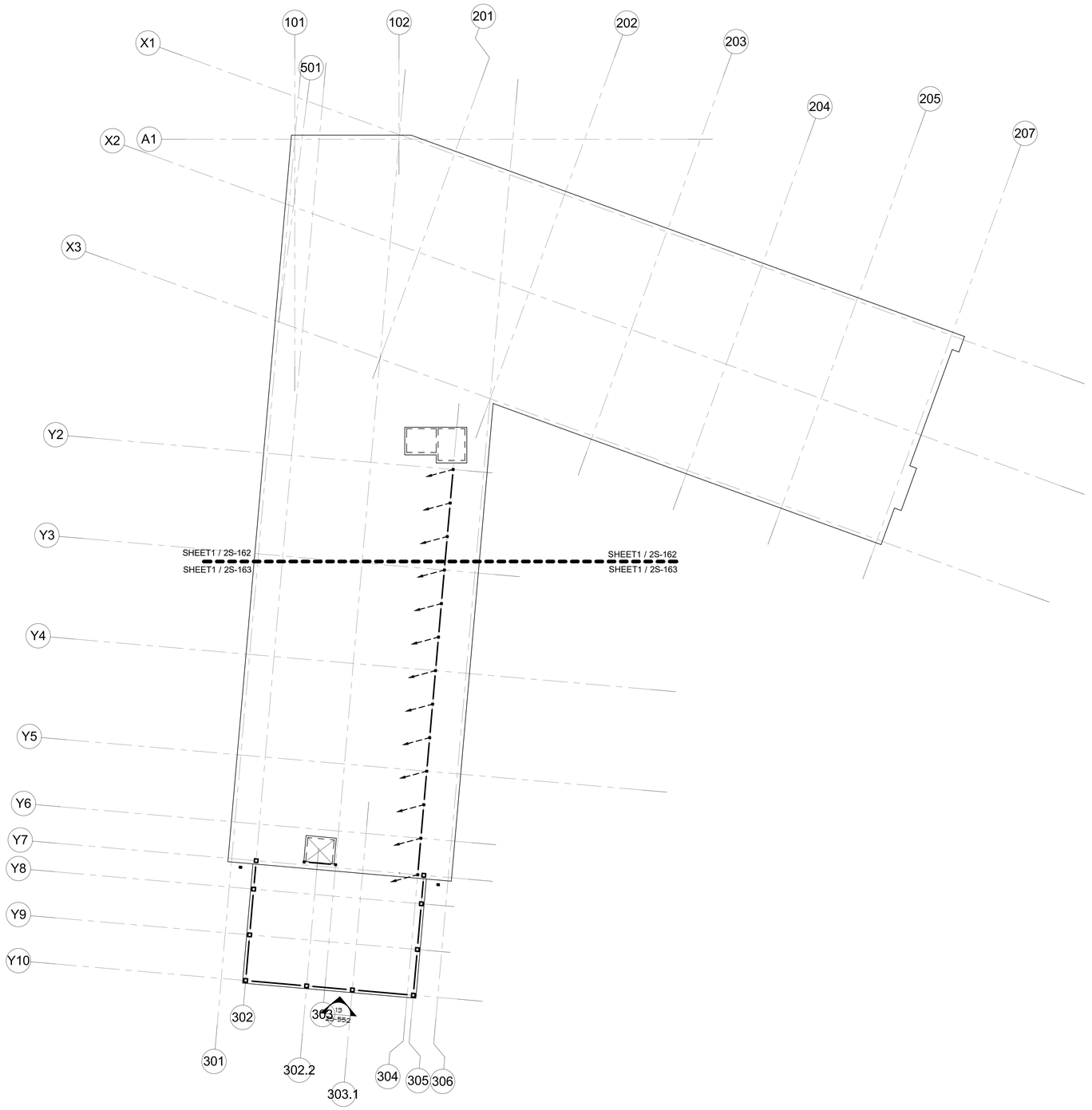
Sheet Title
ROOF FRAMING PLAN - PART B

Sheet No.
2S-153

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE, WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

8/29/2017 12:51:40 PM



1 **OVERALL UPPER ROOF FRAMING PLAN**

1/16" = 1'-0"

0 8' 16' 32'

SCALE: 1/16" = 1'

N

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

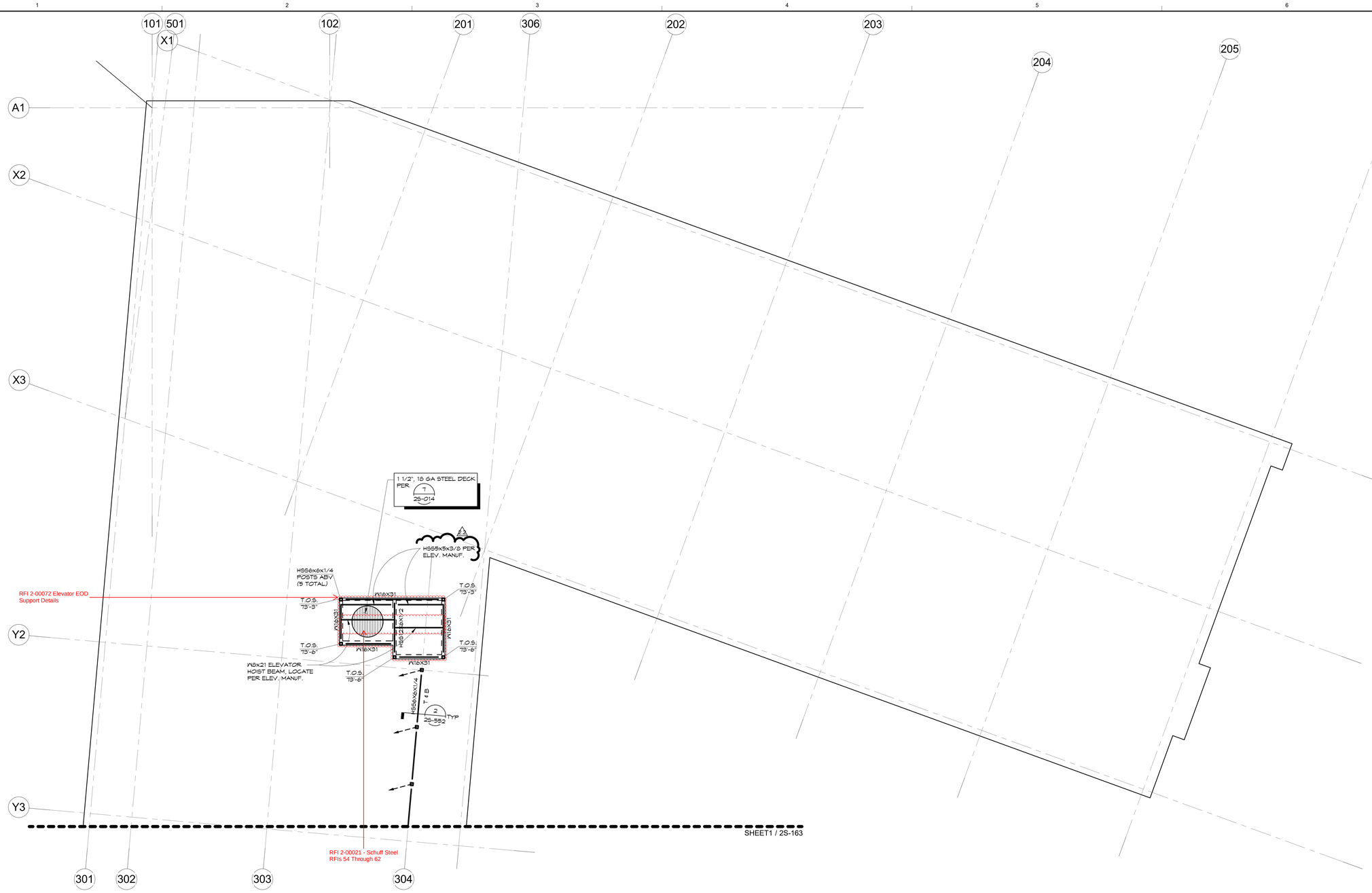
OVERALL
UPPER ROOF
FRAMING PLAN

Sheet No.

2S-161

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

10/2/2017 11:44:20 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 UPPER ROOF FRAMING PLAN - PART A

1/8" = 1'-0"

SCALE: 1/8" = 1'

N

GENE THEORY -
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VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
UPPER ROOF FRAMING PLAN - PART A

Sheet No.
2S-162

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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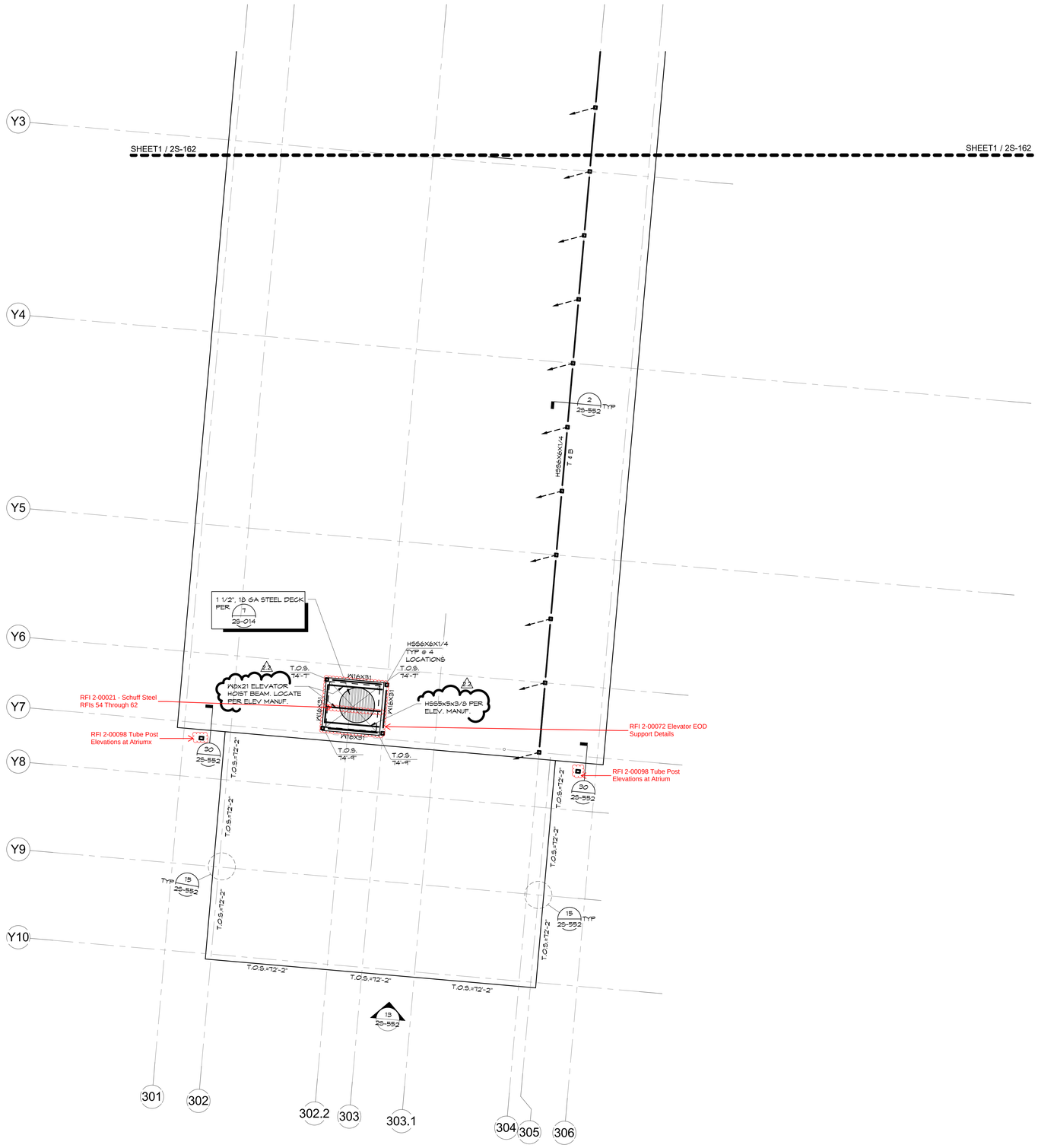
10/2/2017 11:44:28 AM



1	UPPER ROOF FRAMING PLAN - PART B
	1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8" = 1'

N

GENE THEORY -
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PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2

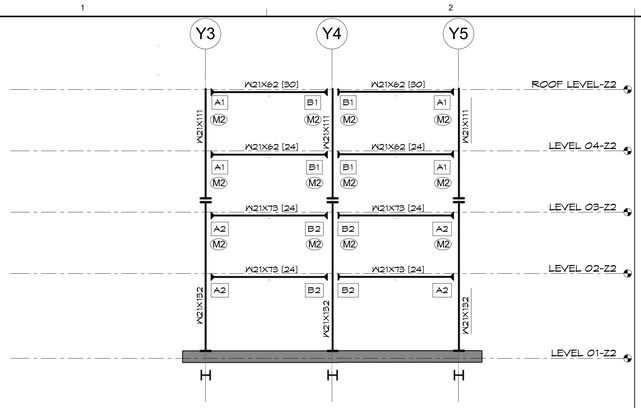
CITY SUBMITTAL SET
08.08.17

Sheet Title
UPPER ROOF FRAMING PLAN - PART B

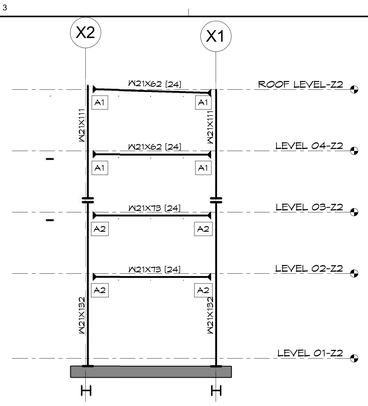
Sheet No.
2S-163

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

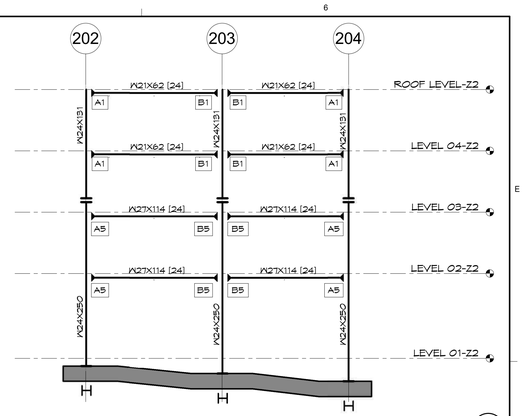
8/29/2017 11:29:16 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



MOMENT FRAME ELEVATON AT GRIDLINE 304 (9)
SCALE: 1/16" = 1'-0"

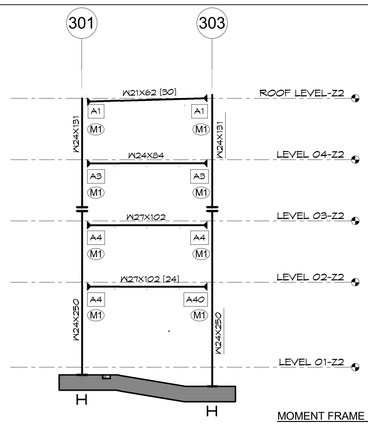


MOMENT FRAME ELEVATION AT GRIDLINE 207 (5)
SCALE: 1/16" = 1'-0"

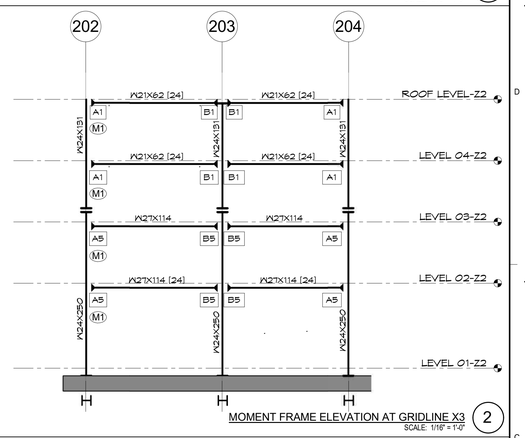


MOMENT FRAME ELEVATION AT GRIDLINE X1 (1)
SCALE: 1/16" = 1'-0"

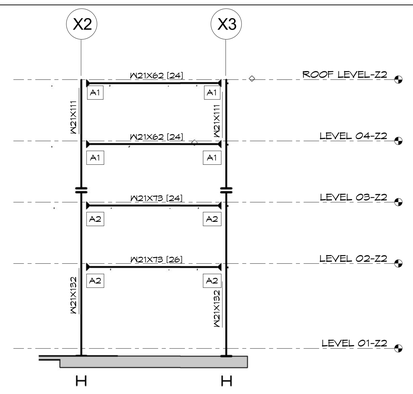
NOT USED (10)



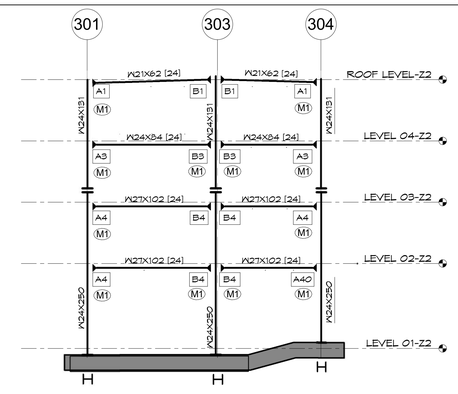
MOMENT FRAME ELEVATION AT GRIDLINE Y2 (6)
SCALE: 1/16" = 1'-0"



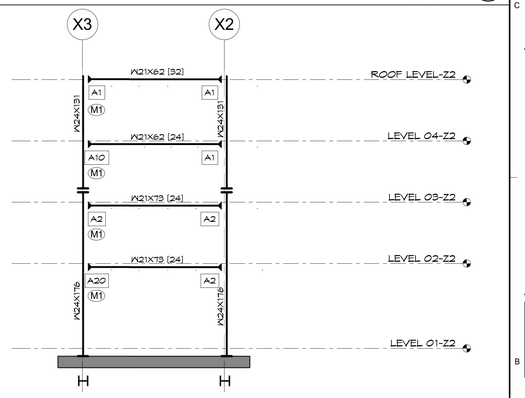
MOMENT FRAME ELEVATION AT GRIDLINE X3 (2)
SCALE: 1/16" = 1'-0"



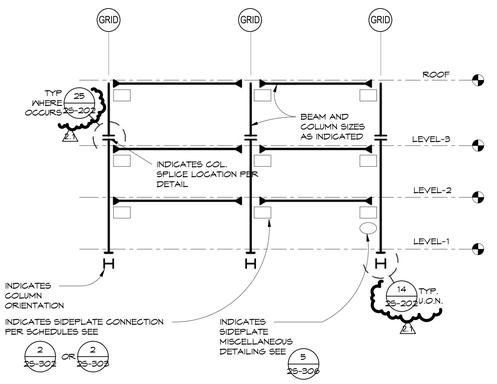
MOMENT FRAME ELEVATON NEAR GRIDLINE 301 (11)
SCALE: 1/16" = 1'-0"



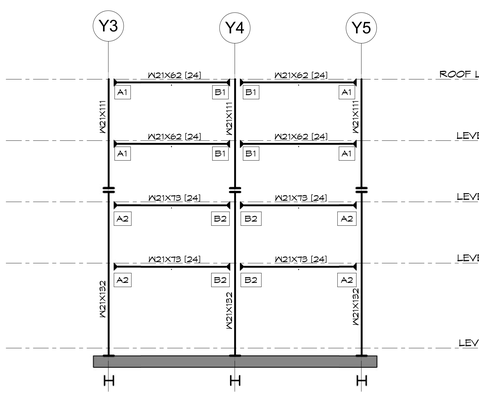
MOMENT FRAME ELEVATION AT GRIDLINE Y6 (7)
SCALE: 1/16" = 1'-0"



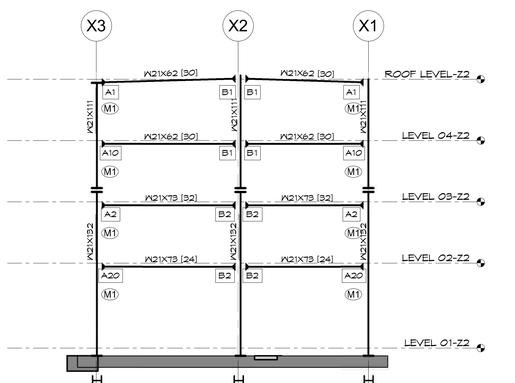
MOMENT FRAME ELEVATION AT GRIDLINE 201 (3)
SCALE: 1/16" = 1'-0"



MOMENT FRAME ELEVATION LEGEND (SIDE PLATE) (12)
SCALE: AS INDICATED



MOMENT FRAME ELEVATION AT GRIDLINE 301 (8)
SCALE: 1/16" = 1'-0"



MOMENT FRAME ELEVATION AT GRIDLINE 205 (4)
SCALE: 1/16" = 1'-0"

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	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title
FRAME ELEVATIONS

Sheet No.
2S-201

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

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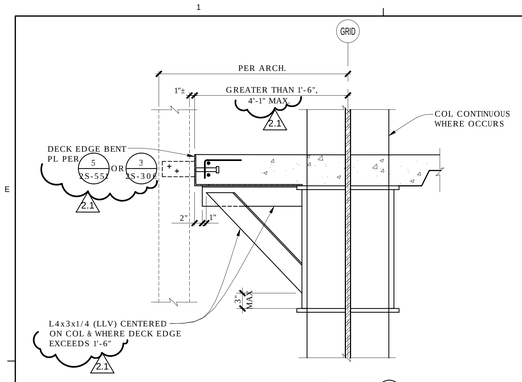
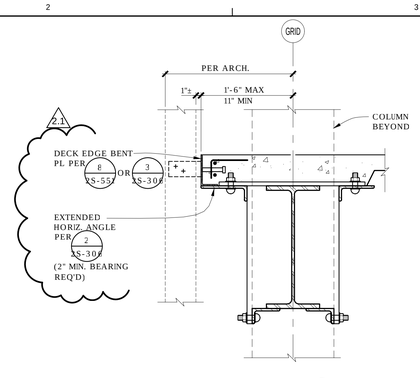
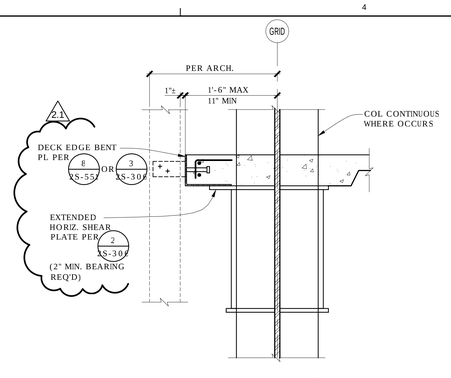
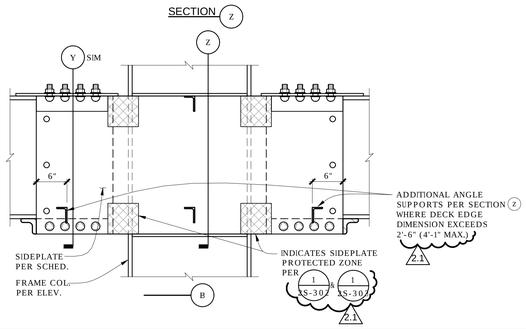
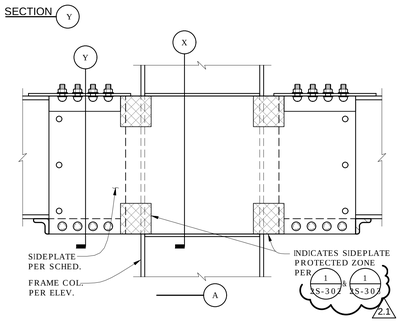
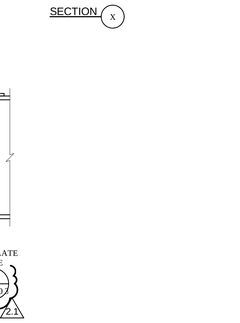












12

STEEL SPECIAL MOMENT FRAME NOTES / QUALITY ASSURANCE (SIDEPLATE)

9. QUALITY ASSURANCE AGENCY SUBMITTALS: THE AGENCY RESPONSIBLE FOR QUALITY ASSURANCE (QA) SHALL SUBMIT THE FOLLOWING DOCUMENTS TO THE CITY OF SAN DIEGO DEVELOPMENT SERVICES DEPARTMENT, THE ENGINEER OF RECORD AND SIDEPLATE SYSTEMS, AND THE OWNER:
   A. QA AGENCY'S WRITTEN PRACTICES FOR THE MONITORING AND CONTROL OF THE AGENCY'S OPERATIONS, INCLUDING THE PROCEDURES LISTED IN AISC 341. THE WRITTEN PRACTICE SHALL INCLUDE:
      (1) THE AGENCY'S PROCDURES FOR THE SELECTION AND ADMINISTARTION OF INSPECTION PERSONNEL, DESCRIBING THE TRAINING, EXPERIENCE AND EXAMINATION REQUIREMENTS FOR QUALIFICATION AND CERTIFICATION OF INSPECTION PERSONNEL, AND
      (2) THE AGENCY'S INSPECTION PROCEDURES, INCLUDING GENERAL INSPECTION, MATERIAL CONTROLS, AND VISUAL WELDING INSPECTION
   B. QUALIFICATION OF MANAGEMENT AND QA PERSONNEL DESIGNATED FOR THE PROJECT
   C. QUALIFICATION RECORDS FOR INSPECTIORS AND NDT TECHNICIANS DESIGNATED FOR THE PROJECT
   D. NDT PROCEDURES AND EQUIPMENT CALIBRATION RECORDS FOR NDT TO BE PERFORMED AND EQUIPMENT TO BE USED FOR THE PROJECT
   E. DAILY INSPECTION REPORTS
   F. NONCONFORMANCE REPORTS

C. MATERIALS:

1. BASE PLATES AND STIFFENER PLATES TO BE OF ASTM A572 GRADE 50 STEEL, COMPATIBLE WITH THE BEAMS AND COLUMNS. PLATES GREATER THAN 4" TO BE ASTM A572 GR42.
2. FILLER METAL FOR DEMAND CRITICAL WELDS DESIGNATED AS PART OF THE SLRS SHALL COMPLY WITH THE FOLLOWING:
   A. CHARPY V NOTCH (CVN) TOUGHNESS OF 20 FOOT-POUNDS AT ZERO DEGREES FAHRENHEIT, AS DETERMINED BY THE APPROPRIATE AWS AS CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION.
   B. CHARPY V NOTCH (CVN) TOUGHNESS OF 40 FOOT-POUNDS AT 70 DEGREES FAHRENHEIT, AS DETERMINED BY THE APPROPRIATE AWS AS CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION.
   C. 58 KSI MINIMUM YIELD STRENGTH.
   D. 70 KSI MINIMUM TENSILE STRENGTH.
   E. 22 PERCENT MINIMUM ELONGATION.
3. ROLLED SHAPES WITH FLANGES 1-1/2 INCH THICK OR THICKER SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FOOT-POUNDS AT 70 DEGREES FAHRENHEIT, TESTED IN THE ALTERNATE CORE LOCATION AS DESCRIBED IN ASTM A6 SUPPLEMENTARY REQUIREMENT S30.
4. PLATES 2 INCHES THICK OR THICKER SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FOOT-POUNDS AT 70 DEGREES FAHRENHEIT, MEASURED AT ANY LOCATION PERMITTED BY ASTM A673, FREQUENCY P, WHERE THE PLATE IS USED FOR THE FOLLOWING:
   (1) MEMBERS BUILT-UP BY PLATE
   (2) CONNECTION PLATES WHERE INELASTIC STRAIN UNDER SEISMIC LOADING IS EXPECTED
5. FILLER METAL SHALL MEET THE REQUIREMENTS FOR H16 (16 ML MAXIMUM DIFFUSIBLE HYDROGEN PER 100 GRAMS DEPOSITED WELD METAL) AS TESTED IN ACCORDANCE WITH AWS D1.8 SECTION 6.3.2.
6. ALL OTHER MATERIAL REQUIREMENTS SHALL BE PER STRUCTURAL NOTES ELSEWHERE ON THESE DRAWINGS.

D. FABRICATION:

1. IN THE PROTECTED ZONE, NO WELDED OR BOLTED CONNECTIONS, HOLES, OR OTHER ATTACHMENTS WILL BE PERMITTED EXCEPT AS SPECIFICALLY SHOWN ON THE STRUCTURAL DETAILS.

E. WELDING PROCEDURES:

1. WELDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF AWS D1.1, AS SUPPLEMENTED BY AISC 341, SECTION J6.
2. EACH WELDER WORKING ON THE PROJECT SHALL BE ASSIGNED AN IDENTIFICATION SYMBOL OR MARK. EACH WELDER SHALL MARK THIS IDENTIFICATION SYMBOL AT EACH WELDMENT COMPLETED.
3. FOR ALL COMPLETE JOINT PREPARATION (CJP) AND PARTIAL JOINT PENETRATION (PJP) GROOVE WELDS SUBJECT TO ULTRASONIC TESTING, A VISIBLE MARK "FOR UT" SHALL BE ACCURATELY PLACED ON THE STEEL A DISTANCE OF FOUR INCHES AWAY FROM THE ROOT OF THE EDGE PREPARATION.
4. ADDITIONAL WELD PROCEDURES FOR DEMAND CRITICAL WELDS SHALL BE AS SPECIFIED IN AISC 341, SECTION E6.

F. WELDING PROCEDURE SPECIFICATION (WPS):

1. THE WPS SHOULD BE WRITTEN BY A COMPETENT WELDING ENGINEER.
2. EACH WPS SHALL SPECIFY ALL APPLICABLE ESSENTIAL VARIABLES OF AWS D1.1. WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER METAL MANUFACTURER.
3. WELDERS AND SPECIAL INSPECTORS SHALL BE INSTRUCTED IN THE PROPER USE OF THE WPS AND SHALL BE INSTRUCTED TO RETAIN A COPY OF THE WPS FOR PRESENTATION TO THE DEVELOPMENT SERVICES STRUCTURAL INSPECTOR UPON REQUEST.
4. THE SPECIAL INSPECTOR MUST VERIFY THAT WELDING IS BEING PERFORMED ACCORDING TO THE WPS.

G. INSPECTION & TESTING:

1. THE REQUIREMENTS LISTED BELOW FOR ELEMENTS OF THE SEISMIC LOAD RESISTING SYSTEM (SLRS), ARE IN ADDITION TO THE GENERAL SPECIAL INSPECTION AND STRUCTURAL OBSERVATION REQUIREMENTS. IN THE CASE OF CONFLICT, THE NOTES ON THIS SHEET ARE TO BE FOLLOWED FOR INSPECTION & TESTING OF ELEMENTS OF THE SLRS.
2. QC WELDING INSPECTORS, QA WELDING INSPECTORS, AND NDT TECHNICIANS SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 341, SECTION J4.
3. NONDESTRUCTIVE TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH AWS D1.8 AND AISC 341, SECTION J6.
4. WELD ACCEPTANCE CRITERIA SHALL BE PER AWS D1.1 AND AS AMENDED BY AWS D1.8.
5. INSPECTION POINTS AND FREQUENCIES OF QC AND QA TASKS AND REQUIRED DOCUMENTATION SHALL BE AS SPECIFIED IN AISC 341, SECTION J6.
6. WHERE JUSTIFIED BY DOCUMENTION OF TEST RESULTS, THE PERCENTAGES OF ULTRASONIC TESTING AND MAGNETIC PARTICLE TESTING FOR AN INDIVIDUAL WELDER MAY BE REDUCED IN ACCORDANCE WITH THE PROVISIONS OF AISC 341, SECTION J6.2.

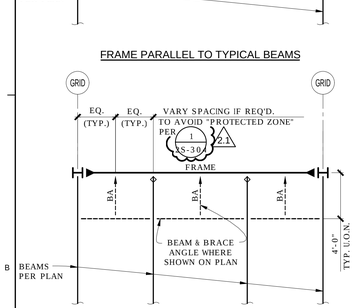
A. GENERAL NOTES:

2.1

1. REFER TO SIDEPLATE SHEETS 2S-301 THRU 2S-307 FOR ADDITIONAL SIDEPLATE CONNECTION SPECIFIC MOMENT FRAME NOTES.
2. SPECIAL MOMENT RESISTING FRAME CONNECTIONS HAVE BEEN DESIGNED AND DETAILED IN ACCORDANCE WITH AISC 358, "PREQUALIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT FRAMES FOR SEISMIC APPLICATIONS," AND AISC 341, "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS."
3. THE SEISMIC LOAD RESISTING SYSTEM (SLRS) ELEMENTS SUBJECT TO THE REQUIREMENTS OF AISC 358 AND AISC 341 INCLUDE:
   A. BEAMS AND COLUMNS IN SPECIAL MOMENT RESISTING FRAMES.
   B. CONNECTION PLATES, CONTINUITY PLATES, DOUBLER PLATES, AND BASE PLATES WHICH ARE PART OF FRAME BEAM AND COLUMN ASSEMBLIES.
   C. WELDING AND HIGH-STRENGTH BOLTING AT COLLECTOR (DRAG) CONNECTIONS ARE SUBJECT TO THESE REQUIREMENTS.
4. PLATES FOR CONNECTION OF NON-FRAME BEAMS TO FRAME BEAMS ARE NOT SUBJECT TO THE REQUIREMENTS OF AISC 358 AND AISC 341.
5. ANGLE BRACES AND THEIR CONNECTIONS TO FRAME BEAMS ARE NOT SUBJECT TO THE REQUIREMENTS THE REQUIREMENTS OF AISC 358 AND AISC 341
6. IN ADDITION TO THE PROVISIONS CONTAINED WITHIN THE STRUCTURAL DRAWINGS, QUALITY CONTROL AND QUALITY ASSURANCE PROCEDURES SHALL BE IN ACCORDANCE WITH AISC 341, CHAPTER J.
7. IN ADDITION TO THE PROVISIONS CONTAINED WITHIN THE STRUCTURAL DRAWINGS, WELDING PROVISIONS SHALL BE IN ACCORDANCE WITH AISC 341, SECTION J6.
8. IN ADDITION TO THE PROVISIONS CONTAINED IN THE STRUCTURAL DRAWINGS, HIGH STRENGTH BOLTING PROVISIONS SHALL BE IN ACCORDANCE WITH AISC 341, CHAPTER J, SECTION 7
9. A PRE-CONSTRUCTION MEETING INCLUDING THE ENGINEER OF RECORD, SIDEPLATE SYSTEMS, FABRICATOR, ERECTOR, CONTRACTOR, TESTING AGENCY, THE CITY'S STRUCTURAL INSPECTOR AND THE SPECIAL INSPECTOR SHALL TAKE PLACE PRIOR TO THE COMMENCEMENT OF FABRICATION AND ERECTION TO DISCUSS THE FABRICATION AND WELDING PROCEDURES AND THE QUALITY CONTROL AND QUALITY ASSURANCE REQUIREMENTS.
10. ANY PROPOSED MODIFICATIONS DUE TO FABRICATION ERRORS OR UNFORSEEN FIELD CONDITIONS SHALL BE REVIEWED BY THE ENGINEER OF RECORN AND SIDEPLATE SYSTEMS PRIOR TO SUCH MODIFICATION BEING MADE.
11. THE FOLLOWING WELDS HAVE BEEN DESIGNATED AS "DEMAND CRITICAL WELDS" IN ACCORDANCE WITH AISC 341 AND AISC 358:
    A. GROOVE WELDS AT COLUMN SPLICES.
    B. WELDS AT COLUMN-TO-BASE PLATE CONNECTIONS
12. WHERE A "PROTECTED ZONE" IS IDENTIFIED ON THE CONNECTION DETAILS, THE FOLLOWING PROVISIONS SHALL APPLY:
    A. WITHIN THE PROTECTED ZONE, DISCONTINUITIES CREATED BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR-ARC GOUGING AND THERMAL CUTTING SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER.
    B. WELDED SHEAR STUDS AND DECKING ATTACHMENTS THAT PENETRATE THE BEAM FLANGE SHALL NOT BE PLACED ON BEAM FLANGES WITHIN THE PROTECTED ZONE. DECKING ARC SPOT WELDS AS REQUIRED TO SECURE DECKING SHALL BE PERMITTED.
    C. WELDED, BOLTED, SCREWED OR SHOT-IN ATTACHMENTS FOR PERIMETER EDGE ANGLES, EXTERIOR FACADES, PARTITIONS, DUCT WORK, PIPING OR OTHER CONSTRUCTION SHALL NOT BE PLACED WITHIN THE PROTECTED ZONE.

B. SUBMITTALS:

1. CONTRACTOR SUBMITTALS: THE FOLLOWING DOCUMENTS SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER OF RECORD AND SIDEPLATE SYSTEMS PRIOR TO FABRICATION OR ERECTION, AS APPLICABLE:
   A. SHOP DRAWINGS, TO INCLUDE AS A MINIMUM THE FOLLOWING:
      (1) WELD ACCESS HOLE DIMENSIONS, SURFACE PROFILE AND FINISH REQUIREMENTS
      (2) LOCATIONS AND DIMENSIONS OF PROTECTED ZONES
      (3) NDT TO BE PERFORMED BY THE FABRICATOR, IF ANY
      (4) IDENTIFICATION OF DEMAND-CRITICAL WELDS
      (5) IDENTIFICATION OF THE WELDING PROCEDURE SPECIFICATION (WPS) APPLICABLE TO EACH SHOP WELD.
      (6) LOCATIONS OF PRETENSIONED BOLTS
      (7) LOCATIONS OF CLASS A, OR HIGHER, FAYING SURFACES
   B. ERECTION DRAWINGS, TO INCLUDE AS A MINIMUM THE FOLLOWING:
      (1) DESIGNATION OF MEMBERS AND CONNECTIONS THAT ARE PART OF THE SEISMIC LOAD RESISTING SYSTEM.
      (2) LOCATIONS AND DIMENSIONS OF PROTECTED ZONES
      (3) LOCATIONS OF PRETENSIONED BOLTS
      (4) THOSE JOINTS OR GROUPS OF JOINTS IN WHICH A SPECIFIC ASSEMBLY ORDER, WELDING SEQUENCE, WELDING TECHNIQUE OR OTHER SPECIAL PRECAUTIONS ARE REQUIRED.
      (5) IDENTIFICATION OF DEMAND CRITICAL WELDS
      (6) IDENTIFICATION OF THE WELDING PROCEDURE SPECIFICATION (WPS) APPLICABLE TO EACH FIELD WELD.
      (7) IDENTIFICATION OF FIELD INSTALLED HIGH-STRENGTH BOLTED CONNECTIONS AS PRETENSIONED, OR SLIP-CRITICAL, AS REQUIRED BY THE CONTRACT DOCUMENTS
   C. WELDING PROCEDURE SPECIFICATIONS (WPS), WHICH SHALL SPECIFY ALL APPLICABLE ESSENTIAL VARIABLES OF AWS D1.1 AND THE FOLLOWING, AS APPLICABLE:
      (1) POWER SOURCE (CONSTANT CURRENT OR CONSTANT VOLTAGE)
      (2) FOR DEMAND CRITICAL WELDS, ELECTRODE MANUFACTURER AND TRADE NAME
   D. COPIES OF THE MANUFACTURER'S TYPICAL CERTIFICATE OF CONFORMANCE FOR ALL ELECTRODES, FLUXES AND SHIELDING GASSES TO BE USED. CERTIFICATES OF CONFORMANCE SHALL SATISFY THE APPLICABLE AWS AS REQUIREMENTS.
   E. FOR DEMAND CRITICAL WELDS, APPLICABLE MANUFACTURER'S CERTIFICATIONS OR TEST RESULTS THAT THE FILLER METAL MEETS THE SPECIFIED NOTCH TOUGHNESS REQUIREMENTS.
   F. MANUFACTURER'S PRODUCT DATA SHEETS OR CATALOG DATA FOR SMAW, FCAW, AND SMAW COMPOSITE (CORED) FILLER METALS TO BE USED. THE DATA SHEETS SHALL DESCRIBE THE PRODUCT, LIMITATIONS OF USE, RECOMMENDED OR TYPICAL WELDING PARAMETERS, AND STORAGE AND EXPOSURE REQUIREMENTS, INCLUDING BAKING, IF APPLICABLE.
   G. BOLT INSTALLATION PROCEDURES
   H. SPECIFIC ASSEMBLY ORDER, WELDING SEQUENCE, WELDING TECHNIQUE, OR OTHER SPECIAL PRECAUTIONS FOR JOINTS OR GROUPS OF JOINTS WHERE SUCH ITEMS ARE DESIGNATED TO BE SUBMITTED TO THE ENGINEER OF RECORD
2. CONTRACTOR DOCUMENTS: THE FOLLOWING DOCUMENTS NEED NOT BE SUBMITTED, BUT SHALL BE AVAILABLE FOR REVIEW BY THE ENGINEER OF RECORD AND SIDEPLATE SYSTEMS PRIOR TO FABRICATION OR ERECTION, AS APPLICABLE:
   A. MATERIAL TEST REPORTS FOR STRUCTURAL STEEL, BOLTS, SHEAR CONNECTORS, AND WELDING MATERIALS
   B. INSPECTION PROCEDURES
   C. NONCONFORMANCE PROCEDURES.
   D. MATERIAL CONTROL PROCEDURES
   E. WELDER PERFORMANCE QUALIFICATION RECORDS (WPQR), INCLUDING ANY SUPPLEMENTAL TESTING REQUIREMENTS
   F. QUALITY CONTROL (QC) INSPECTOR QUALIFICATIONS

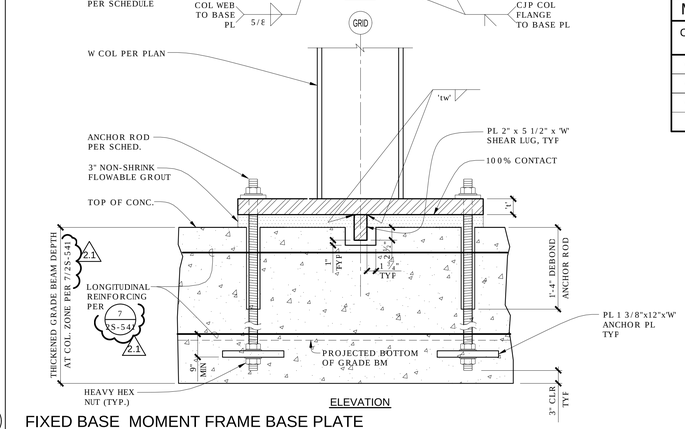


FRAME PARALLEL TO TYPICAL BEAMS

FRAME PERPENDICULAR TO TYPICAL BEAMS

TYP. MOMENT FRAME BRACING
5101-07UC

29

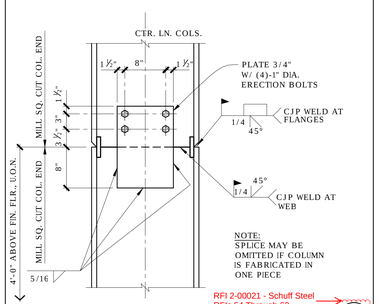


MOMENT FRAME BASE SCHEDULE					
COLUMN SIZE	'L'	'W'	PLATE 't'	ANCHOR RODS	'tw'
W21x132	36"	30"	4"	(5)-2" DIA	5/8"
W24x176	40"	32"	4"	(5)-2" DIA	5/8"
W24x250	46"	38"	5"	(5)-2" DIA	5/8"

FIXED BASE MOMENT FRAME BASE PLATE

RFI 2-00053 Rebar to Shear Key Clearance

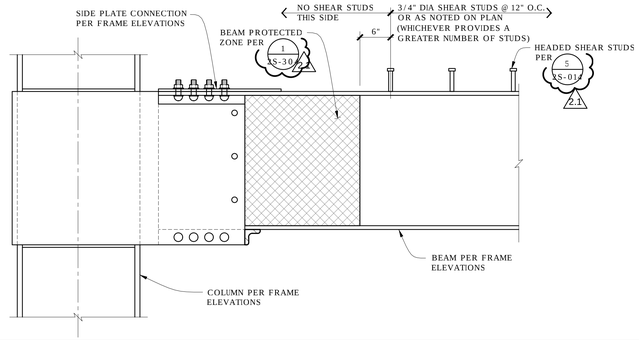
14



RFI 2-00021 - Schuff Steel
RFIs 54 Through 62

TYP. FRAME COLUMN SPLICE

25



15

NOT USED

10

NOT USED

5

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	04.25.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

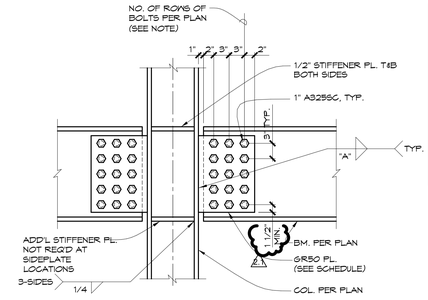
CITY SUBMITTAL SET
08.08.17

Sheet Title
MOMENT FRAME NOTES AND DETAILS

Sheet No.
2S-202

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

8/29/2017 11:30:45 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



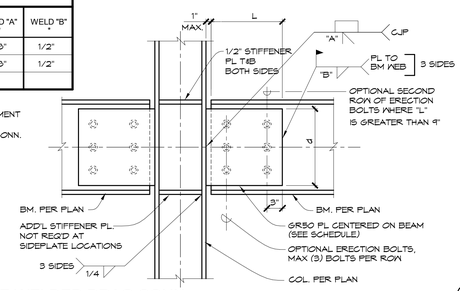
DRAG CONNECTION SCHEDULE			
BEAM SIZE	NO. OF BOLTS PER ROW	PL t	WELD "A"
W12,W14	3	3/8"	5/16"
W16	4	1/2	3/8"
W18,W21	5	5/8"	1/2"
W24	6	7/8"	5/8"
W27	7	7/8"	5/8"
W30, W33	8	7/8"	5/8"
W36	10	7/8"	5/8"

NOTE:
1. # OF DOTS ON PLAN IS # OF ROWS OF BOLTS (⟶ ⟷ IS 2 ROWS)
2. FOR BM TO BM DRAG CONN. SEE 5/-
3. FOR BEAM TO COL. WEB DRAG CONN. SEE 3/-
4. CONTRACTORS OPTION TO PROVIDE CJP WELD IN LIEU OF SPECIFIED FILLET WELD "A".
5. FOR CONNECTION AT SIDEPLATE SEE 6/2S-301

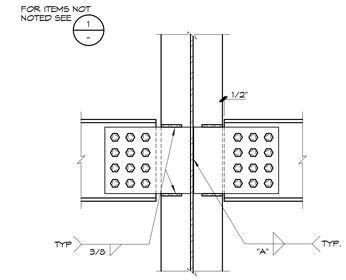
TYP. BEAM TO COL. FLANGE BOLTED DRAG CONN. 1

WELDED DRAG CONNECTION SCHEDULE					
BEAM SIZE	t of PL	L	d	WELD "A"	WELD "B"
W24xT6	7/8"	6"	20"	5/8"	1/2"
W27xB4	7/8"	6"	23"	5/8"	1/2"

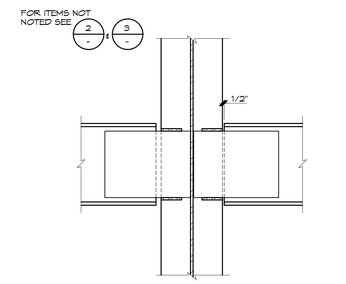
NOTES:
1. WELDING IS SUBJECT TO "STEEL SPECIAL MOMENT FRAME NOTES" ON SHEET 2S-202.
2. FOR BEAM TO COLUMN WEB WELDED DRAG CONN. SEE 4/-



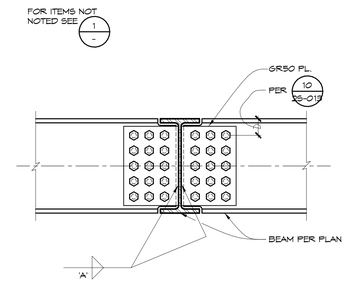
TYP. BEAM TO COL. FLANGE WELDED DRAG CONN. 2



TYP. BEAM TO COL. WEB DRAG CONN. 3



TYP. BEAM TO COL.
WEB WELDED DRAG CONN. 4



TYPICAL BM. TO BM. DRAG CONN. 5

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title
COLLECTOR CONNECTION DETAILS

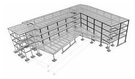
Sheet No.
2S-203

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

INSTRUCTIONS TO STEEL FABRICATOR

1. LICENSE REQUIREMENTS FOR THE USE OF THE SIDEPLATE CONNECTION TECHNOLOGY ON:

PROJECT:	GENE THEORY
LOCATION:	REDWOOD CITY, CA
TRACKING NUMBER:	17020-S-03
CONNECTION TYPE:	SPECIAL MOMENT FRAME - FIELD BOLTED
NUMBER OF BUILDINGS:	1
APPROX. TOTAL GROSS SQUARE FOOTAGE:	130,000
NUMBER OF STORIES:	4
TRANSMITTAL NUMBER:	20170801193830



2. SIDEPLATE LICENSE FEE:
   a. THE STEEL FABRICATOR'S BID PRICE FOR PROCUREMENT, FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL INCLUDE THE SIDEPLATE LICENSE FEE FOR THE PROJECT. EACH PROSPECTIVE STEEL FABRICATOR WHO BIDS THE PROJECT SHALL FORMALLY REQUEST THE SIDEPLATE LICENSE FEE BY ACCESSING THE SIDEPLATE WEBSITE (http://www.sideplate.com/fee).
   b. UPON THE SUCCESSFUL STEEL FABRICATOR SIGNING A CONTRACT TO FABRICATE STRUCTURAL STEEL FOR THIS PROJECT, THE STEEL FABRICATOR SHALL SUBMIT A PURCHASE ORDER (PO) TO SIDEPLATE SYSTEMS, INC. FOR THE TOTAL AMOUNT OF THE SIDEPLATE LICENSE FEE AND SHALL INCLUDE SAID FEE IN ITS FIRST CONSTRUCTION DRAW. THE CONTENT OF THE PO SHALL INCLUDE THE LIST OF ITEMS PROVIDED BY SIDEPLATE SYSTEMS, INC. WHICH IS AVAILABLE FOR DOWNLOADING FROM http://www.sideplate.com/po. THE SIDEPLATE LICENSE FEE SHALL BE PAID WITHIN 75 CALENDAR DAYS OF THE DATE THE INVOICE IS ISSUED. WITHOUT LIMITATION OF REMEDIES, LATE PAYMENTS SHALL BEAR INTEREST AT THE RATE OF 10% PER ANNUM.
   c. THE STEEL FABRICATOR SHALL MAKE PAYMENT OF THE SIDEPLATE LICENSE FEE DIRECTLY TO:

      SIDEPLATE SYSTEMS, INC.
      25909 PALA, SUITE 200
      MISSION VIEJO, CA 92691
      TEL: 949-238-8900

SUBMITTALS

1. IN ADDITION TO THE REQUIRED SUBMITTALS SPECIFIED BY THE BALANCE OF THE CONTRACT DOCUMENTS, THE FOLLOWING SUBMITTALS SHALL BE SENT TO SIDEPLATE SYSTEMS, INC. AT 25909 PALA, SUITE 200, MISSION VIEJO, CA 92691 OR ELECTRONICALLY, PRIOR TO THE START OF THE ACTIVITIES CITED BELOW:
   a. DETAILING OF SHOP DRAWINGS:
      PRIOR TO THE START OF THIS ACTIVITY, THE FABRICATION SUBCONTRACTOR SHALL FORMALLY REQUEST THE FOLLOWING FROM SIDEPLATE SYSTEMS, INC.:
      - THE NOTICE OF INTELLECTUAL PROPERTY (AUTOCAD OR WORD FORMAT)
      - THE PATENT LABELS
   b. SHOP FABRICATION AND FIELD ERECTION:
      PRIOR TO THE START OF THIS ACTIVITY, THE CONTRACTOR SHALL SUBMIT TO SIDEPLATE SYSTEMS, INC. VIA THE STRUCTURAL ENGINEER OF RECORD FOR ITS REVIEW AND DISPOSITION:
      - QUALITY CONTROL PROGRAM (REQUIRED IF NOT AISC CERTIFIED)
      - WELDING PROCEDURE SPECIFICATIONS (WPS) AND CURRENT CERTIFICATE OF CONFORMANCE BY THE WIRE MANUFACTURER
      - ONE ELECTRONIC COPY OF ALL STRUCTURAL STEEL DRAWINGS THAT EITHER DIRECTLY PERTAINS TO AND/OR AFFECTS THE SHOP FABRICATION OR FIELD ERECTION OF THE SIDEPLATE STEEL FRAME CONNECTION SYSTEM, INCLUDING THE INITIAL SUBMITTAL AND ALL CORRECTED RE-SUBMITTALS OF AFFECTED DRAWINGS. SIDEPLATE SYSTEMS, INC. SHALL BE GIVEN, AS A MINIMUM, THE SAME SPECIFIED REVIEW TIME (NOT LESS THAN 7 BUSINESS DAYS) AS THE ENGINEER OF RECORD.

GENERAL

1. THE GOVERNING CODES SHALL CONSIST OF ANSI/AWS D1.1-2010 (AWS D1.1), ANSI/AWS D1.8-2009, ANSI/AISC 358-10 (INCLUDING SUPPLEMENT NO. 2), AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (APRIL 14, 2010), 2009 RCSC SPECIFICATIONS FOSTRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, AND ALL APPLICABLE BUILDING AND JURISDICTIONAL CODES AND PROJECT STANDARDS SPECIFIED IN THE PROJECT SPECIFICATION STRUCTURAL STEEL SECTION. WHERE THE REQUIREMENTS DIFFER BETWEEN SIDEPLATE CONNECTION NOTES, THE GENERAL STRUCTURAL NOTES, AND THE GOVERNING CODES, THE MORE STRINGENT SECTION CRITERIA SHALL CONTROL.
2. ALPHA AND NUMERIC DESIGNATORS (X) & (#) USED HEREIN TO SIMPLIFY THE IDENTIFICATION OF PLATES, ANGLES, AND WELDS ARE DEFINED BELOW:

   {A} SIDE PLATE FOR UNIAXIAL CONNECTIONS, PARALLEL TO WEB OF COLUMN

   {B} BEAM FLANGE COVER PLATE, AS REQUIRED

   {C} VERTICAL SHEAR PLATE OR FLAT BAR, AS REQUIRED

   {D} HORIZONTAL SHEAR PLATE OR FLAT BAR, AS REQUIRED

   {E} VERTICAL ANGLE WELDED TO THE VERTICAL SHEAR PLATE {C}, AS REQUIRED

   {F} VERTICAL SHEAR ELEMENT (VSE) WHICH CONSISTS OF PLATE {C} AND/OR ANGLE {E} MATERIAL, AS REQUIRED

   {G} LONGITUDINAL ANGLE WELDED TO THE OUTSIDE FACE OF SIDE PLATE {A}, AS REQUIRED

   {H} LONGITUDINAL ANGLE WELDED TO THE BOTTOM BEAM FLANGE (OR TOP BEAM FLANGE AS REQUIRED)

   {T} HORIZONTAL PLATE WELDED TO THE OUTSIDE FACE OF SIDE PLATE {A}, AS REQUIRED

   {1} FILLET WELD CONNECTING SIDE PLATE {A} TO HORIZONTAL SHEAR PLATE {D} OR COLUMN

   {2} FILLET WELD CONNECTING INSIDE FACE OF SIDE PLATE {A} TO COLUMN [DEMAND CRITICAL]

   {3} FILLET WELD CONNECTING HORIZONTAL SHEAR PLATE {D} TO COLUMN, AS REQUIRED

   {4} FILLET WELD TO CONSTRUCT VSE {F} AND TO CONNECT IT TO THE WEB OF THE BEAM, AS REQUIRED

   {5} FILLET WELD CONNECTING BEAM FLANGE TIPS TO COVER PLATE {B} AND/OR LONGITUDINAL ANGLE {H}, AS REQUIRED [DEMAND CRITICAL]

   {5a} FILLET WELD CONNECTING OUTSIDE FACE OF BEAM FLANGE TO COVER PLATE {B} AND/OR LONGITUDINAL ANGLE {H}, AS REQUIRED [DEMAND CRITICAL]

   {8} FILLET WELD CONNECTING LONGITUDINAL ANGLE {G} TO SIDE PLATE {A}, AS REQUIRED [DEMAND CRITICAL]

3. ALPHA DESIGNATORS, USED HEREIN TO SIMPLIFY THE IDENTIFICATION OF DIMENSIONS OF THE SIDEPLATE CONNECTIONS, ARE DEFINED BELOW:

   GAP PHYSICAL SEPARATION BETWEEN THE END OF THE MOMENT FRAME BEAM AND THE ADJOINING FACE OF THE COLUMN FLANGE

   A EXTENSION OF SIDE PLATE {A} FROM THE FACE OF THE COLUMN FLANGE

   B DEPTH OF SIDE PLATE {A}

   C LENGTH OF COVER PLATE {B} AND/OR LONGITUDINAL ANGLE {H}

   D LENGTH OF SLOT FROM THE TOE OF THE RADIUS IN THE COVER PLATE {B}, AS REQUIRED

   E EDGE DISTANCE OF BOLT HOLES IN COVER PLATE {B}, AS REQUIRED

   G GAGE DISTANCE TO CENTERLINE OF BOLT HOLES IN ANGLES {G} AND {H}, AS REQUIRED,

   K CUT DIMENSION ON ANGLE {H}

   H ADDED DIMENSION TO COLUMN FLANGE WIDTH TO DEFINE TOTAL COVER PLATE {B} WIDTH

   J DISTANCE FROM END OF THE BEAM TO CENTERLINE OF VERTICAL BOLT HOLES IN VSE {F}, AS REQUIRED

   R RADIUS OF SLOT DIMENSION IN COVER PLATE {B}

   S HORIZONTAL SPACING BETWEEN BOLT HOLES

   Y ADDED DIMENSION TO COLUMN FLANGE WIDTH FOR ALLOWABLE SPREAD OF SIDE PLATES {A}

MATERIAL

1. PLATE, FLAT BAR, AND ANGLE MATERIAL:
   a. ALL PLATE MATERIAL SHALL BE ASTM A572, GRADE 50.
   b. ANGLE AND BAR MATERIAL SHALL HAVE A HIGH STRENGTH STEEL SPECIFICATION AND SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 50KSI.
   c. ALL PLATE MATERIAL 2 INCHES (51 MM) THICK AND GREATER SHALL MEET THE FOLLOWING ADDITIONAL REQUIREMENTS:
      - A MINIMUM CVN TOUGHNESS OF 20 FT-LB AT A TEMPERATURE OF 70°F IN ACCORDANCE WITH ASTM A6, SUPPLEMENTARY REQUIREMENT S5, AND THE PROVISIONS OF ASTM A673, FREQUENCY P-PIECE TESTING.
2. WELD FILLER METAL:
   a. THE WELD FILLER METAL AND ASSOCIATED WELDING PROCESS FOR ALL FILLET WELDS SHALL MEET THE REQUIREMENTS OF AWS D1.1 AND SHALL BE ANY OF THE FOLLOWING:
      - E70T-6, E71T-8, OR E70TG-K2 FOR FCAW
      - E7XT-X FOR FLUX CORED ARC WELDING (FCAW) WITH GAS SHIELDING
      - F7A2-EXXX FOR SUBMERGED ARC WELDING (SAW)
      - E7018 STICK ELECTRODE FOR SHIELDED METAL ARC WELDING (SMAW)
      - ER70S-X, E70C-XM, OR E70C-XC FOR GMAW (EXCEPT SHORT CIRCUIT TRANSFER)
   b. THE WELD FILLER METAL USED FOR FILLET WELDS TO CONSTRUCT THE SIDEPLATE CONNECTION SYSTEM PRESENTED HEREIN SHALL DEMONSTRATE AN ENERGY EQUIVALENT TO A MINIMUM CVN TOUGHNESS OF 20 FT-LB IMPACT STRENGTH AT A TEMPERATURE OF -20°F AND 40 FT-LB IMPACT STRENGTH AT 70°F AS DETERMINED BY AWS CLASSIFICATION TEST METHODS OR MANUFACTURER CERTIFICATION.
   c. ALL WELD FILLER METAL SHALL SATISFY A MAXIMUM DIFFUSIBLE HYDROGEN CONTENT REQUIREMENT PER AWS AND D1.8 SECTION 6.3, OF 16 MILLILITERS OF HYDROGEN PER 100 GRAMS OF WELD METAL (H16) OR LESS.
   d. REFER TO AWS D1.8 ANNEX B FOR REQUIREMENTS WHEN MIXING FCAW-S WITH OTHER WELD PROCESSES.
3. HIGH STRENGTH BOLTS/FASTENERS:
   a. BOLTS SHALL BE TYPE 1 OR TYPE 3 AND SHALL BE EITHER A490 HEAVY HEX OR F2280 TWIST-OFF-TYPE TENSION-CONTROL BOLT. THE BOLT HEAD SHALL BE DISTINCTIVELY MARKED WITH A MINIMUM MARKING OF A490. AN ALTERNATIVE-DESIGN THAT MEETS THE REQUIREMENTS OF RCSC SECTION 2.8 MAY BE USED, WITH THE WRITTEN APPROVAL FROM SIDEPLATE SYSTEMS, INC.
   b. WASHERS SHALL BE ORDINARY THICKNESS AND ASTM F436 OR F959.
   c. NUT SHALL BE ASTM A563.
   d. THE BOLT ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL.
   e. THE MILL TEST REPORT (MTR) MUST HAVE DOCUMENTED LOT TRACEABILITY, DIMENSIONAL RESULTS, FULL CHEMICAL TEST RESULTS AND FULL MECHANICAL TEST RESULTS TO THE SPECIFICATIONS ABOVE.
   f. THE USE OF FINGER SHIMS ARE ACCEPTABLE PER BOLTING SECTION 8.
4. ROLLED SHAPES:
   a. ALL ROLLED SHAPES USED FOR COLUMNS AND BEAMS IN CONSTRUCTING SIDEPLATE MOMENT FRAMES SHALL BE ASTM A992 GRADE 50 UNO.
   b. FABRICATOR SHALL USE ROLLED ANGLE SHAPES WITH THE SMALLEST RADIUS (R) AT APEX AVAILABLE, SEE ANGLE {G} AND ANGLE {H} DETAILS.
   c. FOR EACH DIFFERENT SIZE OF STEEL FRAME COLUMNS AND BEAMS IDENTIFIED IN THE CONTRACT DOCUMENTS AS PART OF THE SFRS INVOLVING ASTM A6 HOT-ROLLED SHAPES WITH FLANGES 1 1/2 INCHES THICK OR THICKER, CHARPY V-NOTCH (CVN) TOUGHNESS SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF ASTM A673, FREQUENCY H. A MINIMUM CVN TOUGHNESS OF 20 FT-LB AT A TEMPERATURE OF 70°F, IN ACCORDANCE WITH ASTM A6, SUPPLEMENTARY REQUIREMENT S30, SHALL BE DOCUMENTED IN THE CERTIFIED MILL TEST REPORT (CMTR). IF THE CMTR DOES NOT DOCUMENT THE MINIMUM CVN VALUES, A COUPON SHALL BE REMOVED FROM THE END OF EACH MEMBER SHAPE SAMPLED. THE LENGTH OF COUPON SHALL BE ORIENTED PARALLEL TO THE LONGITUDINAL AXIS OF THE MEMBER. A TEST SPECIMEN SHALL BE MACHINED FROM EACH COUPON, IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, SECTION A3-1c, ROLLED HEAVY SHAPES. THE LONGITUDINAL AXIS OF THE TEST SPECIMEN SHALL BE LOCATED AS NEAR AS PRACTICABLE TO A POINT MIDWAY BETWEEN THE INNER FLANGE SURFACE AND THE CENTER OF FLANGE THICKNESS, AT THE INTERSECTION OF THE WEB MID-THICKNESS.
5. WELDED BUILT-UP SHAPES:
   a. FOR EACH DIFFERENT SIZE OF STEEL FRAME COLUMNS AND BEAMS IDENTIFIED IN THE CONTRACT DOCUMENTS AS PART OF THE SFRS INVOLVING PLATE 2 INCHES THICK OR THICKER USED TO CONSTRUCT WELDED BUILT-UP SECTIONS, CHARPY V-NOTCH (CVN) TOUGHNESS SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF ASTM A673, FREQUENCY P. A MINIMUM CVN TOUGHNESS OF 20 FT-LB AT A TEMPERATURE OF 70°F, IN ACCORDANCE WITH ASTM A6, SUPPLEMENTARY REQUIREMENT S5, SHALL BE DOCUMENTED IN THE CERTIFIED MILL TEST REPORT (CMTR). IF THE CMTR DOES NOT DOCUMENT THE MINIMUM CVN VALUES, A COUPON SHALL BE REMOVED FROM THE END OF EACH PIECE OF PLATE TO BE TESTED. THE LENGTH OF COUPON SHALL BE ORIENTED PARALLEL TO THE LONGITUDINAL AXIS OF THE MEMBER. A TEST SPECIMEN SHALL BE MACHINED FROM EACH COUPON IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, SECTION A3-1d, BUILT-UP HEAVY SHAPES.

PREPARATION

1. THE CONTRACTOR'S FABRICATION AND ERECTION SUBCONTRACTOR SHALL EMPLOY A DISTORTION CONTROL PROGRAM PRIOR TO THE START OF SIDEPLATE MOMENT FRAME FABRICATION. THE DISTORTION CONTROL PROGRAM SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF AWS D1.1 SECTION 5.21 AND 5.22 TO ENSURE THAT THE FOLLOWING ARE MAINTAINED:
   - DIMENSIONAL ACCURACY
   - FRAMING AND ALIGNMENT TOLERANCES
   - COMPLIANCE WITH AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, SECTION 7.0, ERECTION PROVISIONS
   - CONTROL OF DISTORTION AND WELD SHRINKAGE
2. BASE METAL SURFACE PREPARATION: SURFACES ON WHICH WELD METAL IS TO BE DEPOSITED, INCLUDING BUT NOT LIMITED TO COLUMN FLANGE TIPS (I.E., COLUMN FLANGE-TO-SIDE PLATE {A} ATTACHMENT), BEAM FLANGE TIPS (I.E., BEAM FLANGE-TO-COVER PLATE {B} ATTACHMENT), AND THERMAL CUT EDGES (E.G., LONGITUDINAL EDGES OF COVER PLATE {B}), SHALL BE SMOOTH, UNIFORM, AND FREE FROM LOOSE OR THICK SCALE; SLAG, RUST, MOISTURE, GREASE AND OTHER FOREIGN MATERIAL THAT WOULD PREVENT PROPER WELDING.
3. THERMAL CUTTING:
   a. THE ROUGHNESS OF ALL THERMAL-CUT SURFACES SHALL BE NO GREATER THAN AN ANSI SURFACE ROUGHNESS VALUE OF 1000 MICRO-INCHES. ROUGHNESS EXCEEDING THIS VALUE AND NOTCHES OR GOUGES NOT MORE THAN 3/16 INCH DEEP SHALL BE REMOVED BY MACHINING OR GRINDING. NOTCHES OR GOUGES DEEPER THAN 3/16 INCH SHALL BE REPAIRED PER AWS.
   b. FLAME CUT SURFACES SHALL BE FREE OF GLOBULES AND LOOSE SLAG. THE THERMAL CUTTING EQUIPMENT SHALL BE ADJUSTED AND MANIPULATED SO AS TO AVOID CUTTING BEYOND (INSIDE) THE PRESCRIBED LINES.
   c. THERMAL CUTTING PROCESSES SHALL BE LIMITED TO PLASMA ARC-CUTTING OR OXYFUEL GAS PROCESSES.
4. WEB/FLANGE FILLET AREA:
   a. UNLESS NOTED OTHERWISE, VERTICAL SHEAR PLATES {C} (AS REQUIRED) AND HORIZONTAL SHEAR PLATES {D} (AS REQUIRED) SHALL HAVE THEIR INSIDE CORNERS CLIPPED PER AWS D1.8 CLAUSE 4 TO PREVENT WELDING IN THE K-AREA BETWEEN WEB AND FLANGE WHEN THE COLUMN IS DEEPER THAN W16x, THESE CLIPS SHALL START AND STOP A DISTANCE OF 1 1/2 INCHES FROM THE TANGENT OF THE FLANGE TO THE WEB FILLET (I.E., THE AISC 'k' DIMENSION). THE DIMENSIONS OF THE CLIPPED CORNER SHALL BE DETAILED ON THE SHOP DRAWINGS.
   b. WELD {3} RETURNS ON THE INSIDE FACE OF THE COLUMN FLANGES (AS OCCURS): IN NO CASE SHALL A WELD TIE-IN OF WELD {3} BE ALLOWED ACROSS THE CLIPPED CORNER OF THE HORIZONTAL SHEAR PLATES {D} AT THE K-AREA BETWEEN WEB AND FLANGE.
5. BOLT HOLES MAY BE PRODUCED BY MECHANICALLY GUIDED MEANS OR BY FREE HAND METHODS: HOLES SHALL BE MADE BY DRILLING, THERMAL CUTTING WITH GRINDING, OR BY SUB-PUNCHING AND REAMING. PUNCHED HOLES ARE NOT PERMITTED IN SIDE PLATES {A}, COVER PLATES {B}, AND LONGITUDINAL ANGLE MATERIAL 3/4 INCHES THICK OR THICKER. PUNCHED HOLES ARE PERMITTED IN VSE {F} MATERIAL THAT IS 5/8 INCHES THICK OR LESS. FINAL SURFACE SHALL HAVE MINIMUM 1000 MICRO INCH ROUGHNESS OR BETTER.

WELDING

1. WELDER QUALIFICATION: THE PERFORMANCE OF ALL WELDERS, WELDING OPERATORS AND TACK WELDERS SHALL BE QUALIFIED IN CONFORMANCE WITH AWS D1.1, SECTION 4, PART C TO DEMONSTRATE ABILITY TO PRODUCE SOUND WELDS.
2. WELDING PROCEDURE SPECIFICATIONS (WPS):
   a. THE CONTRACTOR SHALL PREPARE A SPECIFIC WRITTEN WPS FOR EVERY DIFFERENT WELDING APPLICATION. DIFFERENT WELDING APPLICATIONS INCLUDE, BUT ARE NOT LIMITED TO, THE JOINT DETAILS AND TOLERANCES, PREHEAT AND INTERPASS TEMPERATURE; SINGLE OR MULTIPLE STRINGER PASSES, WELDING CURRENT, POLARITY,ALLOWABLE AMPERAGE RANGES, ALLOWABLE VOLTAGE RANGES, ALLOWABLE TRAVEL SPEED RANGES, ELECTRODE EXTENSION, ROOT TREATMENT, WELDING POSITION, WELDING PROCESS, ELECTRODE MANUFACTURER, FILLER METAL TRADE NAME FOR THE ELECTRODE TYPE SELECTED, AND OTHER ESSENTIAL VARIABLES AS DEFINED IN AWS D1.1 REQUIRED TO COMPLETE THE FABRICATION AND ERECTION OF THE SPECIFIED SIDEPLATE CONNECTIONS. AMPERAGE, VOLTAGE, TRAVEL SPEED AND ELECTRODE EXTENSION SHALL BE WITHIN THE FILLER METAL MANUFACTURER'S RECOMMENDATIONS.
   b. EACH WPS PREPARED SHALL BE BASED ON THE CERTIFICATE OF CONFORMANCE PROVIDED BY THE WIRE MANUFACTURER AND SHALL BE USED AS A SUPPORTING PQR PROVIDED FULL COMPLIANCE WITH EVERY SINGLE CONDITION OF PREQUALIFICATION FOUND IN AWS D1.1 SECTION 3 AND AWS D1.8 HIGH AND LOW HEAT INPUT FOR PREQUALIFIED FILLET AND CJP WELDS. THE SELECTION OF THIS OPTION BY THE CONTRACTOR'S FABRICATION/ERECTION SUBCONTRACTOR IS PREDICATED ON ITS ACKNOWLEDGEMENT THAT ITS CERTIFIED WELDERS ARE EXPERIENCED AND CONFIDENT IN THE USE AND SETTINGS SPECIFIED IN THE CERTIFICATE OF CONFORMANCE WITH THE ALLOWANCES FOR TOLERANCES FOR ESSENTIAL VARIABLES FOUND IN TABLE 3.8 OF AWS D1.1. PREVIOUS WPS QUALIFICATION PERFORMED BY THE CONTRACTOR'SFABRICATION/ERECTION SUBCONTRACTOR THAT COMPLIES WITH THE PROVISIONS HEREIN MAY SATISFY THIS REQUIREMENT. EACH WPS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD, AND TO SIDEPLATE SYSTEMS, INC. FOR REVIEW AND DISPOSITION PRIOR TO START OF WELDING.
   c. THE APPROVED WPS FOR EACH APPLICABLE PRODUCTION WELD SHALL BE CLEARLY DISPLAYED TO PROVIDE READY ACCESS BY THE ASSIGNED WELDERS, WELDING SUPERVISORS AND INSPECTORS.
   d. IN LIEU OF THE ABOVE PROCEDURE, THE STEEL FABRICATOR MAY CHOOSE TO QUALIFY A WPS BASED ON A PROCEDURE QUALIFICATION RECORD (PQR), WHICH SHALL BEPROVIDED WITH THE WPS SUBMITTAL. THE PQR SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1, SECTION 4.1 AND EMPLOY THE PROPER ACCEPTANCE CRITERIA.
3. TACK WELDS:
   a. TACK WELDS SHALL BE PLACED WHERE THEY WILL BE INCORPORATED INTO A FINAL WELD AND SHALL BE SUBJECT TO THE SAME QUALITY REQUIREMENTS AS THE FINAL WELDS, INCLUDING POSITION, PREHEAT AND UNDERCUT, IN ACCORDANCE WITH AWS D1.1. THESE QUALITY REQUIREMENTS SHALL APPLY EQUALLY TO TACK WELDING OF ANY OTHER CONSTRUCTION AIDS.
4. PREHEAT AND INTERPASS TEMPERATURE REQUIREMENTS:
   a. THE MINIMUM PREHEAT AND INTERPASS TEMPERATURES FOR A GIVEN THICKNESS OF BASE METAL TO BE WELDED SHALL BE IN ACCORDANCE WITH AWS D1.1 TABLE 3.2.
   b. IN NO CASE, REGARDLESS OF THE WELDING PROCESS, SHALL THE PREHEAT TEMPERATURE BE LESS THAN THAT REQUIRED TO DRIVE OFF ANY MOISTURE ON THE BASE METAL SURFACE.
   c. MAXIMUM INTERPASS TEMPERATURE SHALL NOT EXCEED 550°F, MEASURED AT A DISTANCE NOT EXCEEDING THREE INCHES FROM THE START OF THE WELD PASS. WELDING OPERATORS AND INSPECTORS SHALL UTILIZE TEMPERATURE MEASURING DEVICES.
5. ALL SLAG SHALL BE REMOVED FROM EACH PASS AND THE ADJACENT BASE METAL SHALL BE CLEANED BEFORE WELDING OVER PREVIOUSLY DEPOSITED WELD METAL. THIS REQUIREMENT SHALL APPLY NOT ONLY TO SUCCESSIVE LAYERS BUT ALSO TO SUCCESSIVE BEADS AND TO THE CRATER AREA WHEN WELDING IS RESUMED AFTER ANY INTERRUPTION, IN ACCORDANCE WITH AWS D1.1 SECTION 5.30.1.
6. PEENING SHALL NOT BE ALLOWED.
7. WELD RUN-OFF TABS SHALL NOT BE USED FOR FILLET WELDS.
8. WELD END TERMINATIONS FOR RECESSED PLATE {D} OPTION ONLY WHERE WELD {3} IS REQUIRED ON BOTH WEB AND FLANGES:
   a. IN ORDER TO PREVENT THE WELD BETWEEN THE ENDS OF WELD {3} CLOSEST TO THE INSIDE FACE OF SIDE PLATE {A} AND WELD {1} THE ENDS OF WELD {1} SHALL BE HELD BACK FROM THE FLANGE TIP OF COLUMN BY A DISTANCE EQUAL TO WELD {3} PLUS 1/8 INCH. IN NO CASE SHALL A WELD TIE-IN BETWEEN THE ENDS OF WELD {1} AND THE ENDS OF WELD {3} CLOSEST TO THE INSIDE FACE OF SIDE PLATE {A} BE ALLOWED. FABRICATION PRIORITY IS GIVEN HEREIN TO WELDING FILLET WELD {3} ALONG ITS FULL DISTANCE.
9. ARC STRIKES WITHIN THE SIDEPLATE PROTECTED ZONE ON BOTH THE INTERIOR AND EXTERIOR FACES OF SIDE PLATES {A}, WITHIN THE TOP AND BOTTOM 6 INCHES OF PLATE HEIGHT SHALL BE AVOIDED. IF THEY DO OCCUR, THEY SHALL BE REMOVED BY GRINDING AND SHALL HAVE BASE METAL REPAIRED PER AWS D1.8 SECTION 6.15, WITH NON-DESTRUCTIVE TESTING AS NECESSARY.

BOLTING

1. BOLTS/FASTENERS SHALL BE INSTALLED TO PRETENSIONED CONDITION USING ONE OF THE FOUR METHODS PRESCRIBED BY THE RCSC SPECIFICATION: TURN-OF-NUT, CALIBRATED WRENCH, TWIST-OFF-TYPE TENSION-CONTROL BOLT (ASTM F2280), OR DIRECT-TENSION-INDICATOR (DTI) (ASTM F959).
2. FOR ALL FOUR PRETENSIONING METHODOLOGIES, ALL FASTENER ASSEMBLIES WITHIN THE JOINT SHALL FIRST BE BROUGHT TO A SNUG TIGHT CONDITION, FOLLOWED BY A SYSTEMATIC PRETENSIONING PROCESS. PRETENSIONING SHALL BEGIN AT THE MOST RIGID PART OF THE JOINT AND CONTINUE IN A MANNER THAT WILL MINIMIZE THE RELAXATION OF PREVIOUSLY PRETENSIONED FASTENERS, UNTIL THE CONNECTED PLIES ARE IN FIRM CONTACT. IN ADDITION:
   a. FOR TURN-OF-NUT METHOD, THE NUT AND PROTRUDING END OF THE BOLT SHALL BE MATCH-MARKED SUCH THAT THE REQUIRED POST ROTATION CAN BE INSPECTED PROPERLY. FOR BOLT LENGTHS MORE THAN 4db BUT NOT MORE THAN 8db, THE NUT SHALL BE ROTATED 1/2 TURN. FOR BOLT LENGTHS MORE THAN 8db BUT LESS THAN 12db, THE NUT SHALL BE ROTATED 2/3 TURN. FOR BOLT LENGTHS MORE THAN 12db, THE REQUIRED ROTATION SHALL BE DETERMINED BY A TENSION CALIBRATOR.
   b. FOR CALIBRATED WRENCH METHOD, THE INSTALLATION WRENCH SHALL BE TESTED DAILY FOR PROPER CALIBRATION PRIOR TO USE. THE APPLICATION OF INSTALLATION TORQUE NEED NOT PRODUCE A RELATIVE ROTATION GREATER THAN THAT SPECIFIED BY THE TURN-OF-NUT METHOD.
   c. FOR TWIST-OFF-TYPE TENSION-CONTROL BOLT METHOD, IF A SPLINED END IS SEVERED DURING THE SNUG TIGHTENING PROCESS, THE FASTENER ASSEMBLY SHALL BE REMOVED AND REPLACED.
   d. FOR DIRECT-TENSION-INDICATOR METHOD, THE SNUG TIGHTENING PROCESS SHALL NOT COMPRESS THE DTI PROTRUSIONS TO A GAP THAT IS LESS THAN THE JOB INSPECTION GAP. IF THIS OCCURS, THE DTI SHALL BE REMOVED AND REPLACED. ASTM F436 WASHERS SHALL BE PLACED BETWEEN THE FASTENER AND THE DTI.
3. REUSE OF A490 AND F2280 BOLT ASSEMBLIES SHALL NOT BE ALLOWED. TOUCHING UP OR RE-TIGHTENING BOLTS THAT MAY HAVE BEEN LOOSENED BY THE INSTALLATION OF ADJACENT BOLTS SHALL NOT BE CONSIDERED TO BE A REUSE.
4. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS.
5. THE BOLT LENGTH USED SHALL BE SUCH THAT THE END OF THE BOLT EXTENDS BEYOND OR IS AT LEAST FLUSH WITH THE OUTER FACE OF THE NUT WHEN PROPERLY INSTALLED.
6. FASTENER COMPONENTS SHALL BE PROTECTED FROM DIRT AND MOISTURE IN CLOSED CONTAINERS AT THE SITE OF INSTALLATION.
7. F2280 ASSEMBLIES AND ALTERNATIVE-DESIGN FASTENERS THAT MEET THE SPECIFIED REQUIREMENTS PREVIOUSLY MENTIONED SHALL NOT BE RE-LUBRICATED, EXCEPT BY THE MANUFACTURER.
8. FINGER SHIMS MAY BE USED UP TO 1/4 INCH WITHOUT RESTRICTION, SHIM REQUIREMENTS GREATER THAN 1/4 INCH SHALL BE SUBMITTED TO SIDEPLATE SYSTEMS INC FOR APPROVAL PRIOR TO USE.
9. WASHERS SHALL BE ASTM F436 ORDINARY THICKNESS AND SHALL BE USED UNDER THE NUT OF THE FASTENER ASSEMBLY SO AS TO PROVIDE A HARDENED NON-GALLING SURFACE OF THE TURNED ELEMENT.

QUALITY CONTROL

1. THE FABRICATOR AND ERECTOR SHALL BE RESPONSIBLE FOR QUALITY CONTROL BY PROVIDING, AS A MINIMUM, IN-PROCESS VISUAL INSPECTION OF ALL FABRICATION AND ERECTION ACTIVITIES TO ENSURE THAT MATERIALS AND WORKMANSHIP MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND WORK INCLUDE WORK PERFORMED PRIOR TO ASSEMBLY. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THAT EFFECTIVE PROCEDURES AND METHODS HAVE BEEN EMPLOYED IN THE FORM OF A DISTORTION CONTROL PROGRAM TO ACCOUNT FOR AND COUNTERACT THE EFFECTS OF WELD SHRINKAGE, EXISTING BEAM SWEEP AND CAMBER, AND CHANGES IN MOMENT FRAME GEOMETRY DUE TO SKEWED AND CURVED DESIGN CONFIGURATIONS (AS OCCURS), TO ENSURE COMPLIANCE WITH SPECIFIED ERECTION AND ALIGNMENT TOLERANCES. QC INSPECTION SHALL INCLUDE **HOLD POINTS** FOR THE FOLLOWING:
   a. COLUMN TREE ASSEMBLY
      i VERIFICATION THAT ACTUAL COLUMN FLANGE WIDTH IS AT LEAST NOMINAL COLUMN FLANGE WIDTH WHERE THE SIDE PLATES {A} ARE TO BE INSTALLED. IN THE UNLIKELY EVENT ACTUAL COLUMN FLANGE WIDTH IS LESS THAN NOMINAL, BUT WITHIN AISC STANDARD MILL TOLERANCES (-3/16 INCH MAX), CONTACT SIDEPLATE SYSTEMS, INC FOR APPROPRIATE RECOMMENDATIONS.
      ii MINIMUM CLEAR DIMENSION VERIFICATION: AFTER PLACEMENT OF WELD {2}, COOLING OF WELD {2} AND REMOVAL OF TEMPORARY SHOP CONSTRUCTION AID(S) TO VERIFY THAT A MINIMUM ACTUAL COLUMN FLANGE WIDTH DIMENSION OCCURS ANYWHERE IN BETWEEN THE SIDE PLATES {A} FROM TOP TO BOTTOM (THE SIDE PLATES SHALL BE PARALLEL TO ONE ANOTHER. IN NO CASE SHALL THEY EXCEED THE ACTUAL COLUMN FLANGE WIDTH).
      iii MAXIMUM SPREAD DIMENSION OF SIDE PLATE {A} SHALL NOT EXCEED ACTUAL COLUMN FLANGE WIDTH PLUS THE SCHEDULED SPREAD DIMENSION Y. THE FIELD CONSTRUCTION AID SHALL BE PLACED AND HOLD THE SIDE PLATES IN THIS FLARED CONDITION UNTIL THE BEAM HAS BEEN SAFELY ERECTED. IN NO CASE SHALL THE SPREAD CAUSE PERMANENT DEFORMATION IN THE SIDE PLATES.
      iv VERIFICATION OF BOLT HOLE ELEVATION AND SPACING FOR POSITION OF SIDE PLATE {A} AND PROPER POSITION AND ELEVATION OF ANGLES {G}.
   b. BOLTED BEAM ASSEMBLY
      i VERIFICATION OF PERPENDICULAR ALIGNMENT BETWEEN THE TOP COVER PLATE {B} AND BOTTOM ANGLES {H} TO THE WEB OF THE BEAM, TO MINIMIZE, IF NOT ELIMINATE, ANY MISALIGNMENT OF BOLT HOLES DUE TO BEAM FLANGE TILT WHEN THE BEAM HAS BEEN LOWERED INTO PLACE.
      ii VERIFICATION OF BOLT HOLE SPACING AND POS

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Other U.S. and foreign applications pending.

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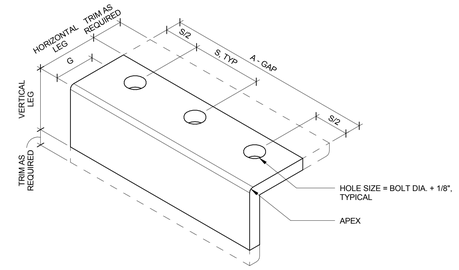

NOTE(S):
1. THE LENGTH OF THE HORIZONTAL LEG OF ANGLE {G} MAY BE INCREASED TO PROVIDE DECK SUPPORT WHERE APPLICABLE. SEE 2 / 2S-306
2. IF THE ANGLE SECTION WITH THE GIVEN DIMENSIONS CANNOT BE OBTAINED, THE PIECE SHALL BE FABRICATED BY TRIMMING ONE OR BOTH LEGS OF A LARGER AVAILABLE ANGLE SECTION.
3. ANY ANGLE OF THE REQUIRED THICKNESS THAT IS CAPABLE OF MEETING THE PROPER MATERIAL SPECIFICATIONS AND THE LEG DIMENSION REQUIREMENTS GIVEN IN THE SCHEDULE MAY BE USED FOR ANGLE {G}.

4 ANGLE {G} DETAIL
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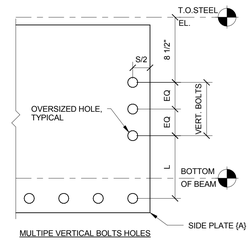
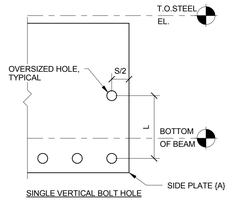


MULTIPE VERTICAL BOLTS HOLES

NOTE(S):
1. SEE COLUMN SCHEDULE FOR BOLT QUANTITY.
2. TOP ANGLE {G} NOT SHOWN FOR CLARITY.



SINGLE VERTICAL BOLT HOLE

3 SIDE PLATE {A} VSE BOLT HOLE DETAIL
N.T.S.

ID	COLUMN PANEL ZONE DESIGN							SIDEPLATE {A} EXTENSION DESIGN												
	MEMBER SIZE	PLATE THICKNESS		WELD			WELD HOLDBACK	MEMBER SIZE		DIMENSION								WELD	MISCELLANEOUS		
	COLUMN SERIES USED	{A}	{D}	{1}	{2}	{3}	{2} HB	BEAM	SUGGESTED ANGLE {G}	REQUIRED HORIZONTAL ANGLE {G} LEG	REQUIRED VERTICAL ANGLE {G} LEG	GAP	A	B	G	L	S	Y	{8}	BOLT DIAMETER	HORIZONTAL BOLTS	VERTICAL BOLTS
A1	W24X, W21X	7/8	3/8	5/16	3/8	5/16	1 1/2	W21X62	L4x4x3/4	4 to 6	4 to 6	2	15 1/2	24 1/2	2 5/8	8	4 1/2	1 1/4	1/2	1 1/8	3	2
A2	W24X, W21X	1	3/8	5/16	3/8	5/16	1 1/2	W21X73	L4x4x3/4	4 to 6	4 to 6	2 1/4	20 1/4	24 3/4	2 5/8	8	4 1/2	1 7/8	7/16	1 1/8	4	2
A3	W24X	1 1/8	3/8	5/16	3/8	5/16	1 1/2	W24X84	L4x4x3/4	4 to 6	4 to 6	2 1/2	20 1/2	27 5/8	2 5/8	8	4 1/2	1 3/4	1/2	1 1/8	4	2
A4	W24X	1 1/4	3/8	5/16	3/8	5/16	2	W27X102	L4x4x3/4	4 to 6	4 to 6	2 3/4	25 1/4	30 5/8	2 5/8	8	4 1/2	2 3/8	7/16	1 1/8	5	3
A5	W24X	1 3/8	3/8	5/16	7/16	5/16	2	W27X114	L4x4x3/4	4 to 6	4 to 6	3	25 1/2	30 3/4	2 5/8	8	4 1/2	2 1/4	7/16	1 1/8	5	3
A10	W24X, W21X	1 1/4	3/8	5/16	3/8	5/16	2	W21X62	L4x4x3/4	4 to 6	4 to 6	2 3/4	16 1/4	24 1/2	2 5/8	8	4 1/2	1	1/2	1 1/8	3	2
A20	W24X, W21X	1 3/8	3/8	5/16	3/8	5/16	2	W21X73	L4x4x3/4	4 to 6	4 to 6	3	21	24 3/4	2 5/8	8	4 1/2	1 5/8	7/16	1 1/8	4	2
A40	W24X	1 5/8	3/8	5/16	3/8	5/16	2	W27X102	L4x4x3/4	4 to 6	4 to 6	3 1/2	26	30 5/8	2 5/8	8	4 1/2	2 1/8	7/16	1 1/8	5	3

2 A TYPE COLUMN SCHEDULE
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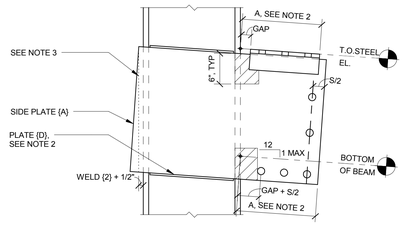
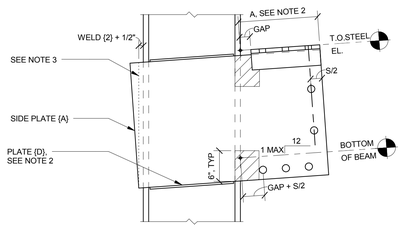


FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. AT CONTRACTOR'S DISCRETION, SIDE PLATE {A} MAY BE CUT AS SHOWN

6 SLOPED DOWN CONNECTION
N.T.S.



FRONT ELEVATION

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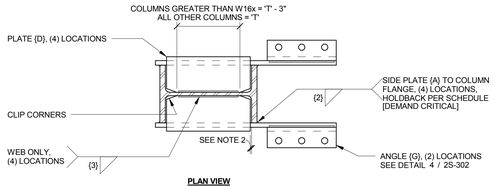
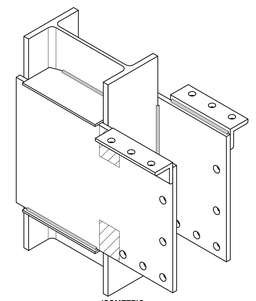
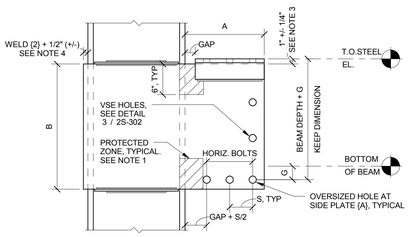
5 SLOPED UP CONNECTION
N.T.S.



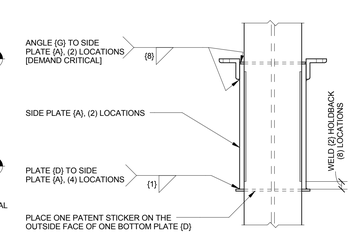
PLAN VIEW



ISOMETRIC



FRONT ELEVATION



SIDE ELEVATION

NOTE(S):
1. PROTECTED ZONE ON SIDE PLATE EXTENDS FROM INSIDE FACE OF COLUMN FLANGE TO EDGE OF BOLT HOLE.
2. DIMENSION BETWEEN PLATE {D} AND INSIDE FACE OF COLUMN FLANGE SHALL NOT EXCEED 1/4 INCH. THIS DIMENSION MAY VARY DEPENDING ON THE DETAILER'S PREFERENCE TO ACCOMMODATE MILL TOLERANCE AND/OR THE UNIFORMITY OF PIECE MARKS.
3. THE +/- 1/4 INCH TOLERANCE FOR PLACEMENT OF ANGLES {G} IS TO ENSURE CORRECT TOP OF STEEL PLACEMENT RELATIVE TO THE CENTERLINE OF THE BOTTOM HORIZONTAL ROW OF BOLT HOLES. THE PLACEMENT OF ANGLES {G} SHALL NEVER BE MEASURED FROM THE BOTTOM EDGE OF SIDE PLATE {A} TO ESTABLISH THE CORRECT TOP OF STEEL.
4. THE 1/2 INCH OVERHANG ON THE SIDE PLATE {A} IS TO ENSURE SUFFICIENT ROOM FOR WELD {2}. THE +/- TOLERANCE IS APPLIED SO THAT IF DESIRED THE DETAILER CAN MAKE THE SIDE PLATES {A} THE SAME LENGTH WITH SLIGHTLY VARYING COLUMN DEPTHS WITHIN A GROUP OF THE SAME CONNECTION ID'S.

1 A TYPE BOLTED CONNECTION
N.T.S.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	07.10.17	STRUCTURAL STEEL BID STEEL
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

SP COLUMN DETAILS, A TYPE

Sheet No.

2S-302

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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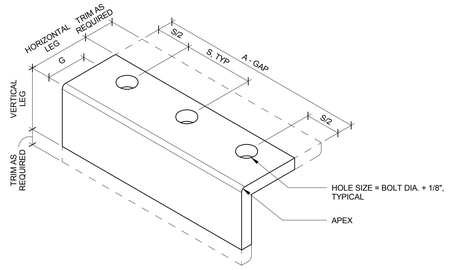
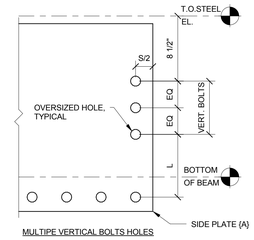
DMF REVISED

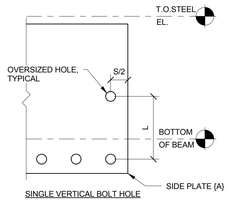


NOTE(S):
1. THE LENGTH OF THE HORIZONTAL LEG OF ANGLE {G} MAY BE INCREASED TO PROVIDE DECK SUPPORT WHERE APPLICABLE. SEE 2 / 2S-306
2. IF THE ANGLE SECTION WITH THE GIVEN DIMENSIONS CANNOT BE OBTAINED, THE PIECE SHALL BE FABRICATED BY TRIMMING ONE OR BOTH LEGS OF A LARGER AVAILABLE ANGLE SECTION.
3. ANY ANGLE OF THE REQUIRED THICKNESS THAT IS CAPABLE OF MEETING THE PROPER MATERIAL SPECIFICATIONS AND THE LEG DIMENSION REQUIREMENTS GIVEN IN THE SCHEDULE MAY BE USED FOR ANGLE {G}.

4 ANGLE {G} DETAIL
N.T.S.



MULTIPE VERTICAL BOLTS HOLES



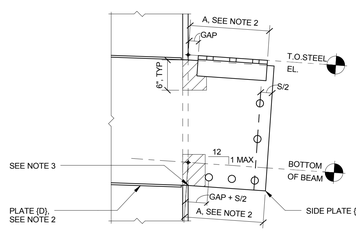
SINGLE VERTICAL BOLT HOLE

NOTE(S):
1. SEE COLUMN SCHEDULE FOR BOLT QUANTITY.
2. TOP ANGLE {G} NOT SHOWN FOR CLARITY.

3 SIDE PLATE {A} VSE BOLT HOLE DETAIL
N.T.S.

ID	COLUMN PANEL ZONE DESIGN							SIDEPLATE {A} EXTENSION DESIGN													
	MEMBER SIZE	PLATE THICKNESS		WELD			WELD HOLDBACK	MEMBER SIZE		DIMENSION									WELD	MISCELLANEOUS		
	COLUMN SERIES USED	{A}	{D}	{1}	{2}	{3}	{2} HB	BEAM	SUGGESTED ANGLE {G}	REQUIRED HORIZONTAL ANGLE {G} LEG	REQUIRED VERTICAL ANGLE {G} LEG	GAP	A	B	G	L	S	Y	{8}	BOLT DIAMETER	HORIZONTAL BOLTS	VERTICAL BOLTS
B1	W24X, W21X	7/8	3/8	5/16	7/16	5/16	1 1/2	W21X62	L4x4x3/4	4 to 6	4 to 6	2	15 1/2	24 1/2	2 5/8	8	4 1/2	1 1/4	1/2	1 1/8	3	2
B2	W21X	1	3/8	5/16	9/16	5/16	1 1/2	W21X73	L4x4x3/4	4 to 6	4 to 6	2 1/4	20 1/4	24 3/4	2 5/8	8	4 1/2	1 7/8	7/16	1 1/8	4	2
B3	W24X	1 1/8	3/8	5/16	9/16	5/16	1 1/2	W24X84	L4x4x3/4	4 to 6	4 to 6	2 1/2	20 1/2	27 5/8	2 5/8	8	4 1/2	1 3/4	1/2	1 1/8	4	2
B4	W24X	1 1/4	3/8	3/8	11/16	3/8	2	W27X102	L4x4x3/4	4 to 6	4 to 6	2 3/4	25 1/4	30 5/8	2 5/8	8	4 1/2	2 3/8	7/16	1 1/8	5	3
B5	W24X	1 3/8	1/2	1/2	13/16	1/2	2	W27X114	L4x4x3/4	4 to 6	4 to 6	3	25 1/2	30 3/4	2 5/8	8	4 1/2	2 1/4	7/16	1 1/8	5	3

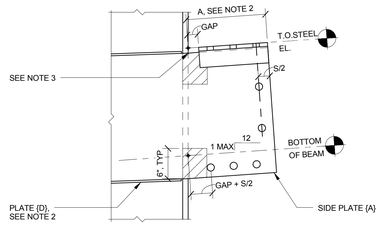
2 B TYPE COLUMN SCHEDULE
N.T.S.



FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

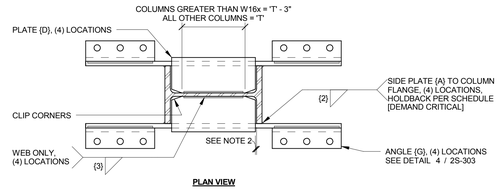
6 SLOPED DOWN CONNECTION
N.T.S.



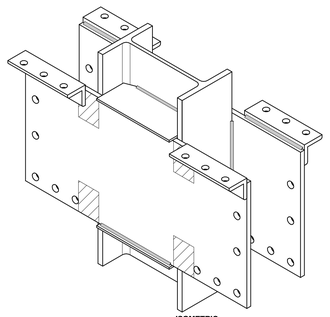
FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

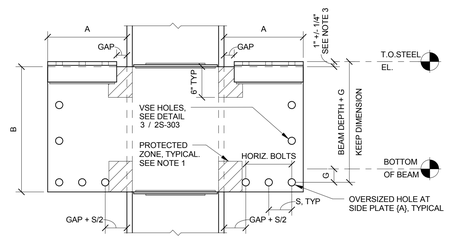
5 SLOPED UP CONNECTION
N.T.S.



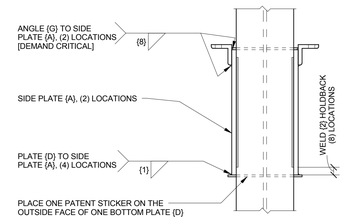
PLAN VIEW



ISOMETRIC



FRONT ELEVATION



SIDE ELEVATION

NOTE(S):
1. PROTECTED ZONE ON SIDE PLATE EXTENDS FROM INSIDE FACE OF COLUMN FLANGE TO EDGE OF BOLT HOLE.
2. DIMENSION BETWEEN PLATE {D} AND INSIDE FACE OF COLUMN FLANGE SHALL NOT EXCEED 1/4 INCH. THIS DIMENSION MAY VARY DEPENDING ON THE DETAILER'S PREFERENCE TO ACCOMMODATE MILL TOLERANCE AND/OR THE UNIFORMITY OF PIECE MARKS.
3. THE +/- 1/4 INCH TOLERANCE FOR PLACEMENT OF ANGLES {G} IS TO ENSURE CORRECT TOP OF STEEL PLACEMENT RELATIVE TO THE CENTERLINE OF THE BOTTOM HORIZONTAL ROW OF BOLT HOLES. THE PLACEMENT OF ANGLES {G} SHALL NEVER BE MEASURED FROM THE BOTTOM EDGE OF SIDE PLATE {A} TO ESTABLISH THE CORRECT TOP OF STEEL.

1 B TYPE BOLTED CONNECTION
N.T.S.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	07.10.17	STRUCTURAL STEEL BID STEEL
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

SP COLUMN DETAILS, B TYPE

Sheet No.

2S-303

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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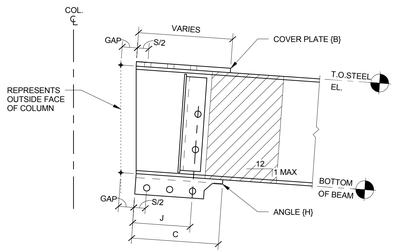
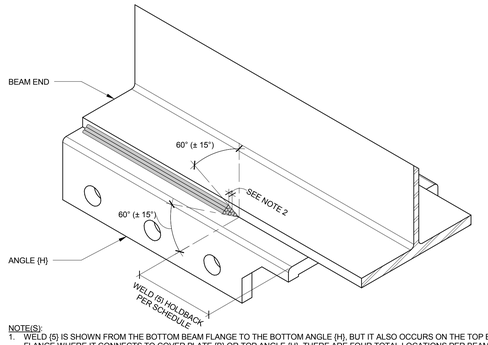


ELEVATION VIEW

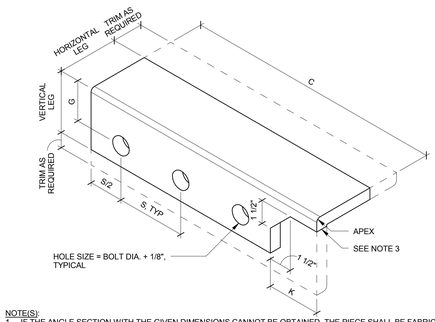
NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

8 SLOPED DOWN BEAM END
N.T.S.



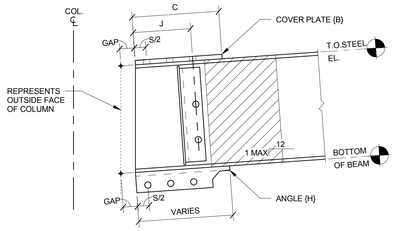
NOTE(S):
1. WELD {5} IS SHOWN FROM THE BOTTOM BEAM FLANGE TO THE BOTTOM ANGLE {H}. BUT IT ALSO OCCURS ON THE TOP BEAM FLANGE WHERE IT CONNECTS TO COVER PLATE {B} OR TOP ANGLE {H}. THERE ARE FOUR TOTAL LOCATIONS PER BEAM END.
2. USING APPROXIMATELY A 1/4 INCH STEP BETWEEN ALL WELD PASSES WILL PROVIDE THE REQUIRED TRANSITION AS DEMONSTRATED THROUGH PHYSICAL TESTING. END PROFILE SHALL BE APPROXIMATELY 60 DEGREES +/- 15 DEGREES.

4 WELD {5} HOLDBACK AND END PROFILE
N.T.S.



NOTE(S):
1. IF THE ANGLE SECTION WITH THE GIVEN DIMENSIONS CANNOT BE OBTAINED, THE PIECE SHALL BE FABRICATED BY TRIMMING ONE OR BOTH LEGS OF A LARGER ROLLED ANGLE SECTION.
2. ANY ANGLE OF THE REQUIRED THICKNESS THAT IS CAPABLE OF MEETING THE PROPER MATERIAL SPECIFICATIONS AND LEG DIMENSION REQUIREMENTS GIVEN IN THE SCHEDULE MAY BE USED FOR ANGLE {H}.
3. MITER CUT NEED NOT BE FLUSH WITH HORIZONTAL LEG. DIMENSION MITER CUT TO UNDERSIDE OF HORIZONTAL LEG SHALL NOT EXCEED 1/2 INCH.

3 ANGLE {H} DETAIL
N.T.S.



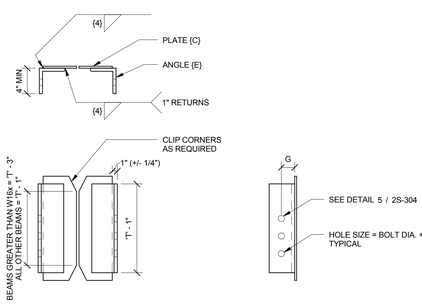
ELEVATION VIEW

NOTE(S):
1. FOR BEAM SLOPES > 1" PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

7 SLOPED UP BEAM END
N.T.S.

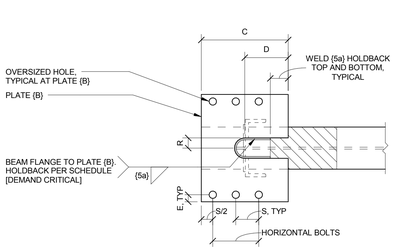
ID	BEAM DESIGN																									
	MEMBER SIZE			PLATE THICKNESS		DIMENSION												WELD				WELD HOLDBACK		MISCELLANEOUS		
	BEAM	SUGGESTED ANGLE {H}	ANGLE {E}	{B}	{C}	REQUIRED HORIZONTAL ANGLE {H} LEG	REQUIRED VERTICAL ANGLE {H} LEG	GAP	C	D	E	G	H	J	K	L	R	S	{4}	{5}	{5} REQUIRED FULL THROAT	{5a}	{5} HB	{5a} HB	BOLT DIAMETER	HORIZONTAL BOLTS	VERTICAL BOLTS
A1, B1	W21X62	L4x4x3/4	L4x4x5/8	7/8	3/8	4	4	2	17	8 1/2	1 3/8	2 5/8	9 3/4	11 1/4	3 1/2	8	2	4 1/2	1/4	1/2	-	1/2	5 1/2	3 1/2	1 1/8	3	2
A2, B2	W21X73	L4x4x3/4	L4x4x5/8	7/8	3/8	4	4	2 1/4	21 1/2	11	1 3/8	2 5/8	10	15 3/4	3 1/2	8	2	4 1/2	1/4	7/16	-	7/16	5 1/2	3 1/2	1 1/8	4	2
A3, B3	W24X84	L4x4x3/4	L4x4x5/8	7/8	3/8	4	4	2 1/2	22	11	1 3/8	2 5/8	10 1/4	15 3/4	4	8	2	4 1/2	1/4	1/2	-	1/2	6	4	1 1/8	4	2
A4, B4	W27X102	L4x4x3/4	L4x4x5/8	7/8	3/8	4	4	2 3/4	27	15	1 3/8	2 5/8	10 1/2	20 1/4	4 1/2	8	2	4 1/2	1/4	7/16	-	7/16	6 1/2	4 1/2	1 1/8	5	3
A5, B5	W27X114	L4x4x3/4	L4x4x5/8	7/8	3/8	4	4	3	27	15	1 3/8	2 5/8	10 3/4	20 1/4	4 1/2	8	2	4 1/2	1/4	7/16	-	7/16	6 1/2	4 1/2	1 1/8	5	3
A10	W21X62	L4x4x3/4	L4x4x5/8	7/8	3/8	4	4	2 3/4	17	8 1/2	1 3/8	2 5/8	10 1/2	11 1/4	3 1/2	8	2	4 1/2	1/4	1/2	-	1/2	5 1/2	3 1/2	1 1/8	3	2
A20	W21X73	L4x4x3/4	L4x4x5/8	7/8	3/8	4	4	3	21 1/2	11	1 3/8	2 5/8	10 3/4	15 3/4	3 1/2	8	2	4 1/2	1/4	7/16	-	7/16	5 1/2	3 1/2	1 1/8	4	2
A40	W27X102	L4x4x3/4	L4x4x5/8	7/8	3/8	4	4	3 1/2	27	15	1 3/8	2 5/8	11 1/4	20 1/4	4 1/2	8	2	4 1/2	1/4	7/16	-	7/16	6 1/2	4 1/2	1 1/8	5	3

2 BEAM END SCHEDULE
N.T.S.

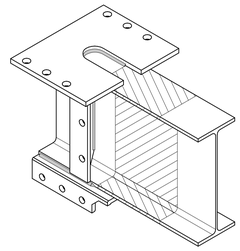


NOTE(S):
1. SEE SIDEPLATE SCHEDULE FOR BOLT QUANTITY

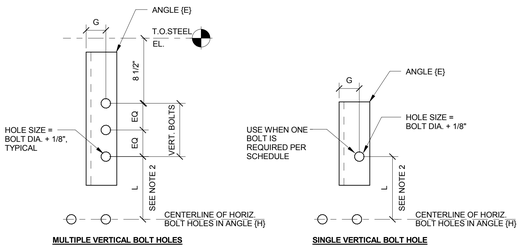
6 VSE {F} DETAIL
N.T.S.



PLAN VIEW



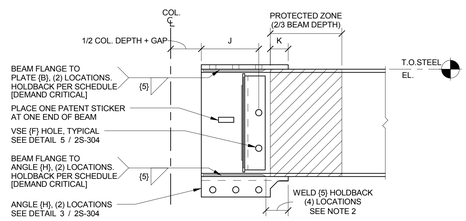
ISOMETRIC VIEW



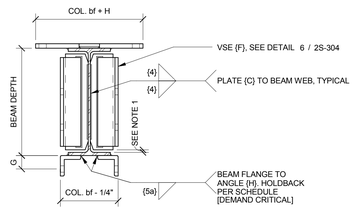
MULTIPLE VERTICAL BOLT HOLES **SINGLE VERTICAL BOLT HOLE**

NOTE(S):
1. SEE BEAM END SCHEDULE FOR BOLT QUANTITY.
2. EFFECTS OF MILL AND FABRICATION TOLERANCES ARE ACCOUNTED FOR BY MEASURING FROM THE CENTERLINE OF THE HORIZONTAL ROW OF BOLTS IN THE BOTTOM ANGLES {H}.

5 VSE {F} HOLES AND PLACEMENT
N.T.S.



FRONT ELEVATION



SECTION VIEW

NOTE(S):
1. DIMENSION BETWEEN PLATE {C} AND INSIDE FACE OF BEAM FLANGE SHALL NOT EXCEED 1/4 INCH, AND MAY VARY DEPENDING ON BEAM MILL TOLERANCES. PLATE {C} SHALL BE CENTERED ON THE DEPTH OF THE BEAM.
2. THIS HOLDBACK AND WELD END PROFILE ARE CRITICAL TO THE PERFORMANCE OF THE CONNECTION. SEE DETAIL 4 / 2S-304

1 BEAM END DETAIL
N.T.S.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	07.10.17	STRUCTURAL STEEL BID STEEL
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
SP BEAM DETAILS

Sheet No.
2S-304

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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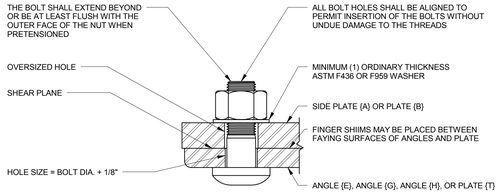
SMF BOLTED

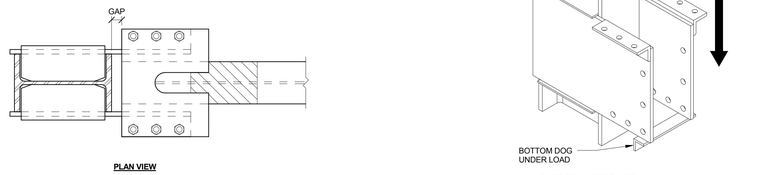


NOTE(S):
1. BOLTS SHALL BE INSTALLED AS SHOWN TO KEEP THREADS OUTSIDE OF SHEAR PLANE.
2. BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS. FIRST TO A SNUG TIGHT CONDITION, AND THEN PRETENSIONED.
3. THE USE OF FINGER SHIMS ARE ALLOWED FOR GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH. CONTACT SIDEPLATE SYSTEMS, INC. IF GAPS ARE GREATER THAN 1/4 INCH.
4. NUT SHALL BE ASTM A563.
5. THE BOLT/FASTENER ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL.
6. FOLLOW QUALITY CONTROL SECTION FOR EXPOSURE LIMITATION ON BOLTS/FASTENERS.

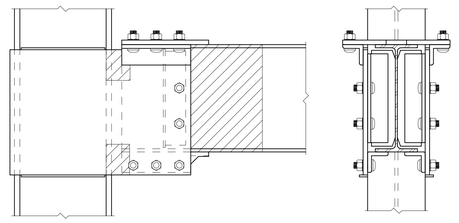
3 FIELD BOLTING DETAIL
N.T.S.

ID	ERECTION DESIGN				
	MEMBER SIZE	MISCELLANEOUS			
	BEAM	BOLT DIAMETER	HORIZONTAL BOLTS	VERTICAL BOLTS	TOTAL BOLTS PER BEAM END
A1, A10, B1	W21X62	1 1/8	3	2	16
A2, A20, B2	W21X73	1 1/8	4	2	20
A3, B3	W24X84	1 1/8	4	2	20
A4, A40, B4	W27X102	1 1/8	5	3	26
A5, B5	W27X114	1 1/8	5	3	26

2 BEAM ERECTION SCHEDULE
N.T.S.



PLAN VIEW

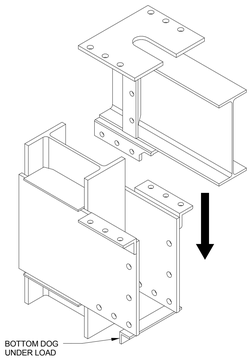


FRONT ELEVATION

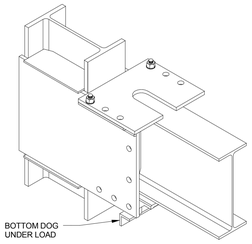
SECTION VIEW

TYPICAL SEQUENCE OF ERECTION:
1. LOWER THE BEAM INTO PLACE FROM ABOVE.
2. STUFF A FEW BOLTS TO SECURE ASSEMBLY.
3. **BOTTOM DOG SHALL BE REMOVED** AND BOLTS SHALL BE STUFFED INTO HOLES IN THE BEAM COVER PLATE {B} AND THE SIDE PLATES {A}.
4. SYSTEMATICALLY TIGHTEN BOLTS PER RCSC SPECIFICATIONS.

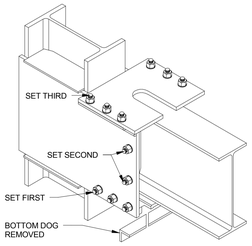
1 BEAM ERECTION DETAIL
N.T.S.



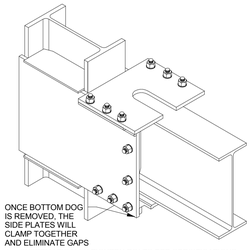
1. LOWER BEAM INTO PLACE



2. STUFF A FEW BOLTS TO SECURE ASSEMBLY



3. CAREFULLY REMOVE BOTTOM DOG AS IT IS UNDER LOAD. THEN STUFF ALL REMAINING BOLTS STARTING WITH THE BOTTOM ROW, THEN THE VERTICAL ROW, AND LAST THE TOP ROW.



4. SYSTEMATICALLY TIGHTEN BOLTS PER SPECIFICATIONS.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	07.10.17	STRUCTURAL STEEL BID STEEL
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

SP BEAM ERECTION DETAILS

Sheet No.

2S-305

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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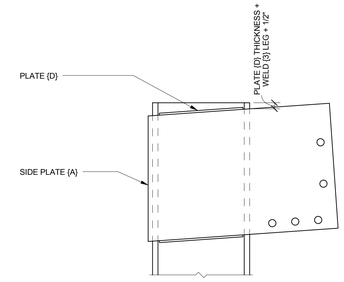
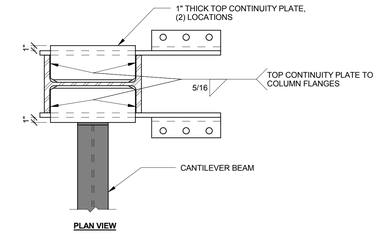
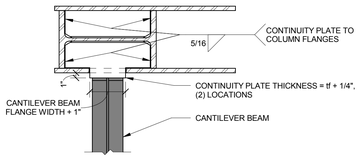


NOTE(S):
1. SLOPED CONDITION SHOWN, CONNECTION MAY BE FLAT.
2. LONGITUDINAL ANGLES {G} NOT SHOWN FOR CLARITY.

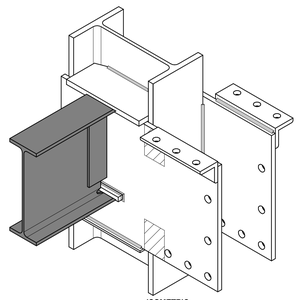
4 DISCONTINUOUS COLUMN DETAIL
N.T.S.



PLAN VIEW



SECTION VIEW LOOKING DOWN



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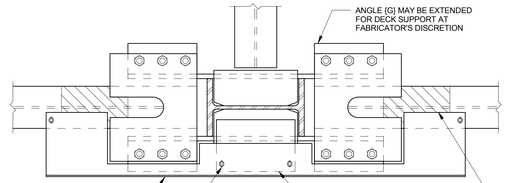
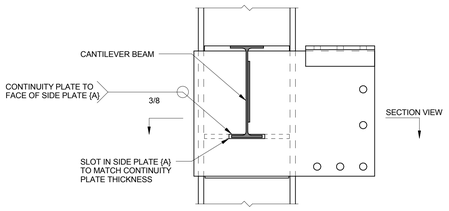
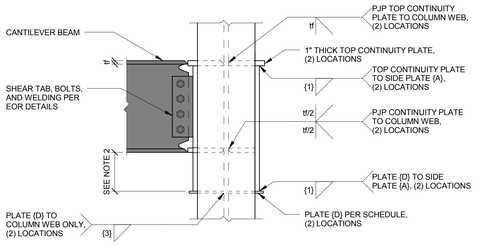


PLAN VIEW

3 SLAB EDGE DETAIL
N.T.S.



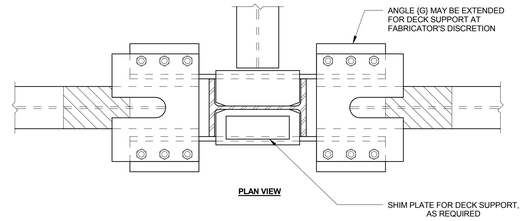
FRONT ELEVATION



SIDE ELEVATION

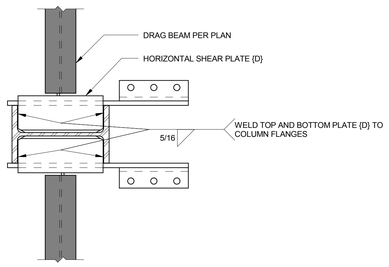
NOTE(S):
1. ATTACHMENT SHOWN ON ONE SIDE OF SIDEPLATE CONNECTION FOR ILLUSTRATION. ATTACHMENT CAN OCCUR ON LEFT SIDE, RIGHT SIDE, OR BOTH SIDES OF CONNECTION AS APPLICABLE.
2. IF THE BOTTOM FLANGE OF THE CANTILEVER BEAM FALLS WITHIN 3 INCHES OF THE BOTTOM OF SIDE PLATE {A}, BOTTOM PLATE {D} SHALL BE OMITTED.

7 CANTILEVER TO SIDEPLATE CONNECTION
N.T.S.



PLAN VIEW

2 DECK SUPPORT DETAIL
N.T.S.

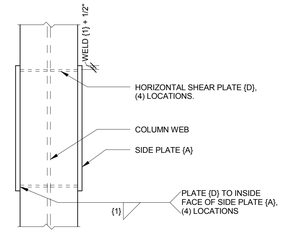


PLAN VIEW

MISCELLANEOUS DETAIL COORDINATION	
DETAIL ID	DETAIL NUMBER
M1	6/2S-306
M2	7/2S-306

6 FLANGE WELD DETAIL AT DRAG LOCATIONS
N.T.S.

5 MISCELLANEOUS DETAILS SCHEDULE
N.T.S.



NOTE(S):
1. LONGITUDINAL ANGLES {G} NOT SHOWN FOR CLARITY.

1 PLATE {D} ALTERNATE DETAIL
N.T.S.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	07.10.17	STRUCTURAL STEEL BID STEEL
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

SP
MISCELLANEOUS
DETAILS

Sheet No.

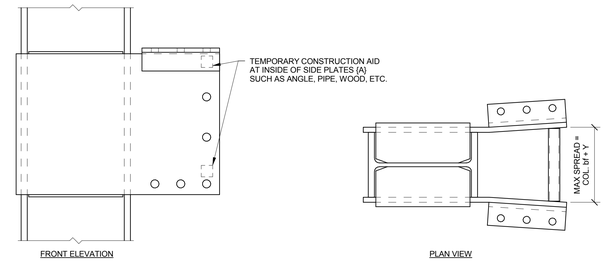
2S-306

CONSTRUCTION GUIDELINES

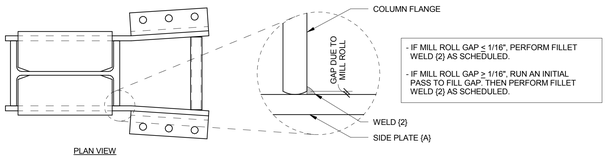
1. THE CONTRACTOR SHALL ASSUME FULL AND COMPLETE RESPONSIBILITY FOR THE MEANS AND METHODS OF CONSTRUCTING THE STEEL FRAME USING THE BOLTED SIDEPLATE CONNECTION SYSTEM. CONSTRUCTION MEANS AND METHODS SHALL BE COMPLIANT WITH THE CURRENT PROVISIONS OF AWS D1.1, AWS D1.8, THE AISC 360 CODE OF STANDARD PRACTICE, THE RCSC HIGH-STRENGTH BOLTING SPECIFICATIONS, AND THE CONSTRUCTION GUIDELINES PROVIDED HEREIN AND SHALL INCLUDE, BUT ARE NOT LIMITED TO:
   a. DIMENSIONAL VERIFICATION AND CONTROL
   b. FILLET WELD END PROFILE AND HOLD BACK DISTANCES FROM EDGE OF PLATE, SEE GRAPHIC NO. 7 AND 8
   c. STEEL DETAILING AND ERECTION DRAWINGS
   d. FABRICATION AND ERECTION PROCEDURES (INCLUDING METHODS FOR CONTROLLING DISTORTION DUE TO WELD SHRINKAGE, AND FOR CONTROLLING COMBINED MILL, FABRICATION AND ERECTION TOLERANCES)
   e. WELDING PROCEDURES
   f. WELDING SEQUENCE OF FABRICATED AND ERECTED ELEMENTS
   g. QUALITY CONTROL MEASURES
   h. CONSTRUCTION AIDS SUCH AS ERECTION RIGGING AND SHORING
   i. PROPER BOLT HOLE ALIGNMENT
   j. PROPER PRETENSIONING OF BOLTS
2. THE SEQUENCE OF CONSTRUCTION OPTIONS PROVIDED BELOW IN THESE CONSTRUCTION GUIDELINES HAVE PROVEN TO BE SUCCESSFUL BY STEEL FABRICATORS AND ERECTORS TO COST EFFICIENTLY CONSTRUCT THE BOLTED SIDEPLATE CONNECTION SYSTEM. VARIATIONS TO THESE CONSTRUCTION SEQUENCE OPTIONS PROVIDED BELOW SHALL BE SUBMITTED FOR REVIEW AND DISPOSITION TO SIDEPLATE SYSTEMS, INC.
3. A PRE-FABRICATION KICK-OFF MEETING WITH A SIDEPLATE SYSTEMS, INC REPRESENTATIVE IS REQUIRED FOR ALL PROJECTS. THE KICK-OFF MEETING IS INTENDED TO SHARE BEST PRACTICES, COMMON MISTAKES TO AVOID, AND TO OFF A FORUM, EARLY IN THE CONSTRUCTION PROCESS, FOR THE CONSTRUCTION TEAM TO ASK QUESTIONS.
4. COLUMN/BEAM SEPARATION (GAP) CLOSURE
   a. PROVIDE A FOLDED STRIP OF LIGHT GAGE METAL, OR SIMILAR, SECURED TO STEEL SURFACES BY DUCT TAPE OR A TACK WELD LOCATED AS CLOSE AS PRACTICABLE TO THE MID SECTION OF THE BEAM FLANGES OR TOP COVER PLATE (B) ACROSS THE PHYSICAL COLUMN/BEAM SEPARATION (GAP) BETWEEN THE BEAM FLANGES OR TOP COVER PLATE (B) AND THE FACE OF COLUMN FLANGE. THIS SHALL PREVENT CONCRETE FILL FROM ENTERING THROUGH THE SEPARATION (GAP).
   b. IN NO CASE SHALL THE FOLDED STRIP OF LIGHT GAGE MATERIAL BE WELDED TO THE EDGE OF SIDE PLATE (A), OR TO THE FACE OF COLUMN FLANGE TO ACHIEVE CLOSURE OF THE PHYSICAL COLUMN/BEAM SEPARATIONS.

SHOP FABRICATION OF THE SIDEPLATE BOLTED SYSTEM

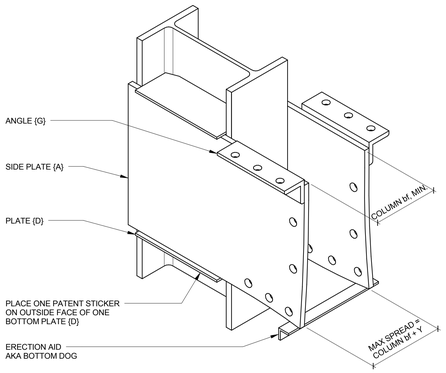
1. COLUMN TREE ASSEMBLY
   a. TACK SIDE PLATES (A) AND HORIZONTAL SHEAR PLATES (D) TO THE COLUMN.
      - QC INSPECTION SHALL PROVIDE VERIFICATION THAT ACTUAL COLUMN FLANGE WIDTH IS AT LEAST NOMINAL COLUMN FLANGE WIDTH WHERE THE SIDE PLATES (A) ARE TO BE INSTALLED. IN THE UNLIKELY EVENT ACTUAL COLUMN FLANGE WIDTH IS LESS THAN NOMINAL, BUT WITHIN AISC STANDARD MILL TOLERANCES (-3/16 INCH), OR THERE IS A FLANGE OFFSET CREATING A CONDITION WHERE THE SIDE PLATES (A) ARE NOT PARALLEL TO ONE ANOTHER, THE FOLLOWING MAY BE APPLIED:
        - PLACE A STRUCTURAL GRADE SHIM (A572 GRADE 50KSI) BETWEEN THE SIDE PLATE (A) AND THE COLUMN FLANGE TO OFFSET THE DEFICIENT DISTANCE. THE CORRESPONDING WELD (2) SHALL THEN BE INCREASED BY THE SHIM THICKNESS.
      - QC INSPECTION SHALL PROVIDE VERIFICATION THAT THE CENTERLINE OF THE BOTTOM ROW OF THE LONGITUDINAL BOLT HOLES ARE SET TO THEIR CORRECT ELEVATION. THIS CENTERLINE MARK WILL BECOME THE WORKING POINT FOR THE CORRECT PLACEMENT OF ANGLE {G}, AS REQUIRED, AND IS ULTIMATELY USED TO SET THE ELEVATION FOR THE TOP OF STEEL IN THE SYSTEM.
   b. WELD HORIZONTAL SHEAR PLATES (D) TO COLUMN WEB USING FILLET WELDS (3) ON OUTER FACE OF PLATE. WHEN WELD (3) OCCURS ON THE COLUMN FLANGES, A WELD TIE-IN OF FILLET WELDS (3) SHALL NOT BE ALLOWED ACROSS THE CLIPPED CORNER OF HORIZONTAL SHEAR PLATE {D} AT THE K-LINE AREA. SEE **PREPARATION** NOTE 4.a IN SIDEPLATE GENERAL NOTES.
   c. WELD HORIZONTAL SHEAR PLATES (D) TO SIDE PLATE (A) USING FILLET WELD (1).
   d. TEMPORARILY MAINTAIN A SLIGHT (E.G. 1/2 INCH +/-) FLARED-OUT SEPARATION OF SIDE PLATES (A) (CARE SHALL BE TAKEN TO NOT OVER SPREAD IN THIS CONDITION, AS THAT MAY BREAK THE TACKS HOLDING THE SIDE PLATE (A) IN PLACE). IN ANTICIPATION OF WELD (2) SHRINKAGE EFFECTS, PLACE SUITABLE CONSTRUCTION AIDS (SUCH AS ANGLE, PIPES OR WOOD BLOCK) AT THE TOP AND BOTTOM OF SIDE PLATE (A). AIDS MAY BE CUT TO FIT AND BEAR ON THE INSIDE FACE OF SIDE PLATES (A) OR CUT LONG AND TACKED TO THE EDGES OF SIDE PLATES (A). SUCH CONSTRUCTION AIDS ACT AS SPACERS DURING THE WELDING AND SUBSEQUENT COOL DOWN OF FILLET WELDS (2). SEE GRAPHIC NO. 1.
   e. WELD INSIDE FACE OF SIDE PLATES (A) TO THE FLANGE TIPS OF COLUMN USING FILLET WELDS (2). REFER TO GRAPHIC NO. 2 FOR CONDITIONS WITH NON-SQUARE COLUMN FLANGE TOES DUE TO MILL ROLLING.
   f. AS REQUIRED, WELD ANGLES (G) TO THE TOP EDGE AND FACE OF SIDE PLATE (A) USING FILLET WELDS (8). CARE SHALL BE GIVEN TO THE PLACEMENT OF ANGLE (G) AT THE CORRECT ELEVATION RELATIVE TO THE WORKING POINT OF THE CENTERLINE OF THE BOTTOM LONGITUDINAL BOLT HOLES IN SIDE PLATE (A).
   g. AFTER COOL DOWN OF COMPLETED FILLET WELDS (2), REMOVE TOP CONSTRUCTION AID. VERIFY MINIMUM CLEAR SPREAD DIMENSION (ACTUAL COLUMN FLANGE WIDTH) BETWEEN SIDE PLATES (A), SEE GRAPHIC NO. 3. THIS IS THE REQUIRED CLEARANCE FOR INSERTING THE BEAM ASSEMBLY. ALSO NOTE:
      - IF CLEARANCE VERIFICATION IS SUFFICIENT (I.E. NOT LESS THAN THE ACTUAL COLUMN FLANGE WIDTH AND NOT EXCEEDING THE MAXIMUM SPREAD DIMENSION Y), A SUITABLE ERECTION AID (AKA BOTTOM 'DOG') SHALL BE WELDED TO THE BOTTOM EDGE OF THE SIDE PLATES (A). IT SHALL BE SUFFICIENTLY STRONG TO REMAIN IN PLACE DURING TRANSPORTATION AND ERECTION OF THE BEAM. THIS ERECTION AID WILL BE UNDER LOAD AND CARE SHALL BE TAKEN WHEN REMOVING.
      - IF CLEARANCE VERIFICATION IS NOT SUFFICIENT (I.E. LESS THAN THE NOMINAL COLUMN FLANGE WIDTH), FLEX SIDE PLATES (A) BY JACKING THEM APART TO A DIMENSION GREATER THAN THE WIDTH OF COLUMN FLANGE. MAXIMUM SEPARATION SHALL NOT EXCEED WIDTH OF COLUMN FLANGE PLUS SCHEDULED SPREAD DIMENSION Y. ONCE NECESSARY CLEARANCE HAS BEEN ESTABLISHED, A SUITABLE ERECTION AID (AKA BOTTOM 'DOG') SHALL THEN BE WELDED TO BOTTOM EDGE OF SIDE PLATES (A). IT SHALL BE SUFFICIENTLY STRONG TO REMAIN IN PLACE DURING TRANSPORTATION AND ERECTION OF BEAM ASSEMBLY. THIS ERECTION AID WILL BE UNDER LOAD AND CARE SHALL BE TAKEN WHEN REMOVING.
      - ALTERNATELY, HEAT STRAIGHTENING OF THE PLATES MAY BE USED TO MEET THE MINIMUM CLEAR DIMENSION SPREAD WITH THE FOLLOWING CRITERIA:
        - USING A 3/4 INCH ROSE BUD HEATING TIP, HEAT THE OUTSIDE FACE OF THE SIDE PLATE ADJUNCT TO THE FREE UNSUPPORTED SIDE OF THE COLUMN FLANGE FOR MAJORITY OF THE FULL DIMENSION (B) DEPTH (HOLD HEATING BACK FROM TOP AND BOTTOM ENDS OF SIDE PLATE (A) BY 2 INCHES). THE WIDTH OR HEAT ZONE SHALL BE 3/4 INCH TO 1 1/4 INCH. TRAVEL SPEED OF HEATING SHALL BE 2 INCHES PER MINUTE AND MAXIMUM TEMPERATURE INPUT SHALL NOT BE MORE THAN 950 DEGREES.



GRAPHIC NO. 1 - COLUMN TREE ASSEMBLY PREPARATION FOR WELD {2}

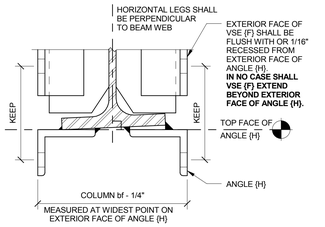


GRAPHIC NO. 2 - MILL ROLL INDUCED GAP

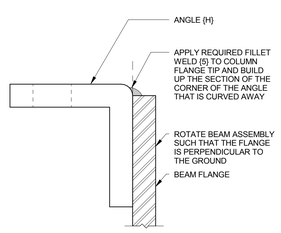


GRAPHIC NO. 3 - COMPLETED SIDEPLATE BOLTED COLUMN TREE ASSEMBLY

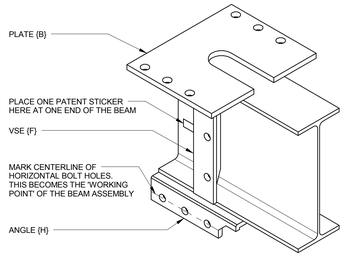
2. BEAM ASSEMBLY
   a. THE COVER PLATE {B} AND LONGITUDINAL ANGLES {H} SHALL BE PLACED PERPENDICULAR TO THE WEB OF BEAM, REGARDLESS OF POSSIBLE FLANGE TILT (AS ROLLED BY THE MILL), SEE GRAPHIC NO. 4.
   b. PLACEMENT OF ANGLES {H} SHALL BE SUCH THAT THEIR BOLT HOLES ARE ALIGNED WITH EACH OTHER IN BOTH THEIR VERTICAL AND HORIZONTAL POSITIONS, ALLOWING THE CENTERLINE OF THE LONGITUDINAL ROWS TO BE THE 'WORKING POINT' FOR THE PLACEMENT OF VSE {F}. THIS WILL PROVIDE ASSURANCE THAT THE LONGITUDINAL BOLT HOLES IN THE BEAM ASSEMBLY WILL LINE UP WITH THE LONGITUDINAL BOLT HOLTS IN THE COLUMN ASSEMBLY. ANY OVER RUN IN THE AS BUILT DIMENSIONS WILL CREATE A GAP BETWEEN ANGLES {G} AND COVER PLATE {B}. SHIM AS REQUIRED. ANY UNDER RUN IN THE AS BUILT DIMENSIONS SHOULD BE ACCOMMODATED BY THE OVERSIZED BOLT HOLE TOLERANCES.
   c. IN THE EVENT THE RADIUS OF THE ANGLE IS LARGER THAN THE EDGE DISTANCE REQUIRED TO PLACE FILLET WELD {5} FROM THE ANGLE {H} TO THE BEAM FLANGE TIPS, ROTATE ASSEMBLY ON ITS SIDE SO THAT THE WEB IS PARALLEL TO THE GROUND. IN THIS POSITION THE RADIUS OF THE ANGLE CAN BE BUILT UP. SEE GRAPHIC NO. 5.
   d. NOTE THAT IN SOME CONDITIONS ANGLES MAY NOT BE 90 DEGREES. CARE SHALL BE GIVEN TO MEASURE THE SUGGESTED WIDTH FROM THE MOST EXTREME POINT ON THE EXTERIOR FACE OF ANGLE {H} (WHICH MAY OCCUR AT THE TOE OF THE ANGLE VERSES ITS APEX).
   e. THE ENTIRE EXTERIOR FACE OF THE OUTSTANDING LEG OF ANGLE {H} SHALL BE PLACED PARALLEL TO THE WEB OF THE BEAM AS MUCH AS PRACTICABLE.
   f. WELD COVER PLATES {B} AND ANGLES {H} TO BEAM FLANGE USING FILLET WELD {5} AND {5a} (SEE GRAPHIC NO. 8).
   g. WELD VSE {F} TO THE BEAM WEB, AS REQUIRED (SEE GRAPHIC NO. 8). IT IS RECOMMENDED THAT THE VSE {F} BE WELDED LAST AS A DISTORTION CONTROL METHOD DUE TO THE POTENTIAL WARPING EFFECTS OF WELD {5}. THE EXTERIOR FACE OF THE VSE {F} SHALL EITHER BE FLUSH WITH THE EXTERIOR FACE OF ANGLE {H}, OR SLIGHTLY RECESSED TOWARDS THE BEAM WEB UP TO 1/16 INCH FROM THE EXTERIOR FACE OF ANGLE {H}. THE VERTICAL PLACEMENT OF THE VSE {F} SHALL BE SET BY THE KEEP DIMENSION FROM ITS BOTTOM BOLT HOLE TO THE CENTERLINE OF THE BOTTOM LONGITUDINAL ROW OF BOLT HOLES IN ANGLES {H} (I.E. THE 'WORKING POINT' OF THE BEAM). THIS WILL VERIFY PROPER ALIGNMENT OF THE BOLT HOLES IN THE COLUMN ASSEMBLY WITH THOSE IN THE BEAM ASSEMBLY, IRRESPECTIVE OF MILL TOLERANCES.
   h. TACK WELDING IN THE BEAM PROTECTED ZONE SHALL NOT BE PERMITTED.



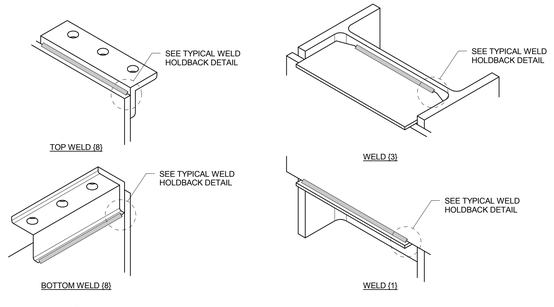
GRAPHIC NO. 4 - ANGLE (H) PLACEMENT



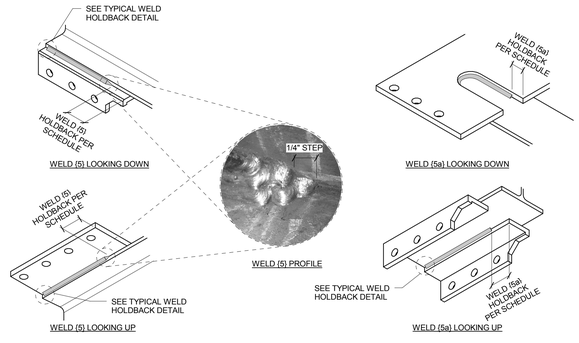
GRAPHIC NO. 5 - ROTATE BEAM ASSEMBLY TO FACILITATE WELD {5} MATERIAL AT MINIMAL EDGE DISTANCE



GRAPHIC NO. 6 - COMPLETED SIDE PLATE BOLTED BEAM END



GRAPHIC NO. 7 - COLUMN ASSEMBLY WELD END PROFILES AND HOLDBACKS

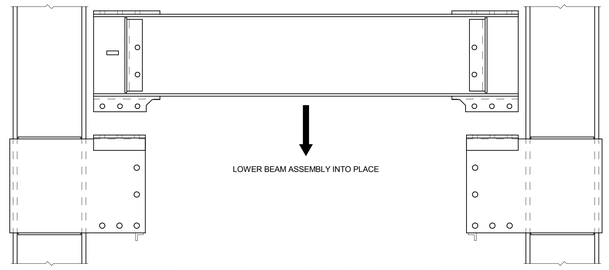


GRAPHIC NO. 8 - BEAM ASSEMBLY WELD END PROFILES AND HOLDBACKS

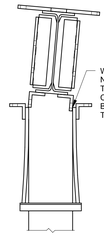
3. THE FOLLOWING FABRICATION AND SEPARATION MEASURES ARE IMPLEMENTED AND MAINTAINED THROUGH DELIVERY TO THE FIELD IN ORDER TO FACILITATE THE LOWERING INTO PLACE OF THE BEAM ASSEMBLY BETWEEN SIDE PLATES (A) OF OPPOSING COLUMN ASSEMBLIES.
   a. MAINTAIN, AS A MINIMUM, THE ACTUAL COLUMN FLANGE WIDTH ANYWHERE IN BETWEEN THE INTERIOR FACES OF SIDES PLATES (A) FROM TOP TO BOTTOM, TO ENSURE SUFFICIENT RATTLE SPACE UPON LOWERING THE BEAM ASSEMBLY INTO PLACE.
   b. THE DETAILED DISTANCE FROM EXTERIOR FACES OF ANGLES (H) ON THE BEAM ASSEMBLY SHALL BE CORRESPONDINGLY DIMENSIONED PER THE TABLE IN GRAPHIC NO. 4. THIS REDUCTION SHALL BE BASED ON THE FABRICATOR'S EXPERIENCE WITH THE TYPICAL MILL OVERRUNS IN THE COLUMN FLANGE WIDTH FOR THE COLUMN SECTIONS BEING USED. THE PROPER DETAILED DIMENSIONING OF THESE ANGLES (H) IS TO FACILITATE ERECTION CLEARANCE DURING THE LOWERING OF THE BEAM ASSEMBLY INTO PLACE.
      - IT'S IMPORTANT TO MAINTAIN SUFFICIENT EDGE DISTANCE BETWEEN THE LONGITUDINAL FACE OF THE BOTTOM ANGLES (H) (LLH) WITH RESPECT TO ITS APEX AND RADIUS AND THE CORRESPONDING FLANGE TIP OF THE BEAM FOR PLACEMENT OF WELD {5}, SEE GRAPHIC NO. 5.

FIELD ERECTION OF BOLTED SIDEPLATE SYSTEM

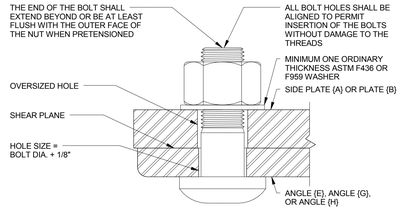
1. LOWER THE BEAM ASSEMBLY INTO OPPOSING COLUMN ASSEMBLIES (SEE GRAPHIC NO. 9)
   a. RACK BEAM SUCH THAT WEB IS PERPENDICULAR TO THE GROUND, FACILITATING MAXIMUM TOLERANCE WITHOUT THE BEAM BEING TILTED AS IT IS LOWERED DOWN BETWEEN THE SIDE PLATES (A), SEE GRAPHIC NO. 10.
   b. IF THE OPPOSING COLUMNS ARE SLIGHTLY SKEWED IN RELATION TO ONE ANOTHER, MAKING IT DIFFICULT TO LOWER THE BEAM DOWN BETWEEN THEM SIMULTANEOUSLY, THE BEAM ASSMBLY CAN BE TILTED AND PLACED FIRST ON ONE COLUMN (LIKELY THE ONE WITH THE GREATEST TWIST). THEN A CHOKER ON THE OPPOSITE END OF THE BEAM CAN BE USED TO PULL IT OVER SO THAT IT IS IN ALIGNMENT ALLOWING THE FREE END OF THE BEAM TO BE DROPPED DOWN INTO PLACE. IN NO CASE SHALL THE BEAM BE OVERDRAWN OR TWISTED SUCH THAT THE NON-PARALLEL COLUMNS' ERECTION AIDS FAIL.
2. CAREFULLY REMOVE BOTTOM 'DOG' WHICH IS UNDER LOAD. BOTTOM 'DOG' ATTACHMENT WELD MAY REMAIN AND IS NOT NECESSARY TO BE GROUND FLUSH. BOTTOM DOGS MUST BE REMOVED PRIOR TO PRETENSIONING SIDEPLATE BOLTS.
3. INSTALL BOLTS WHICH SERVE AS CLAMPING DEVICES TO 1) PULL SIDE PLATES (A) IN AS CLOSE AS PRACTICABLE TO THE ANGLES (H) OF THE BEAM ASSEMBLY AND 2) PULL ANGLES (G) ON COLUMN TREE ASSEMBLY AS CLOSE AS PRACTICABLE TO COVER PLATE (B). BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS, FIRST TO A SNUG TIGHT CONDITION AND THEN PRETENSIONED. ONLY ONE ORDINARY WASHER IS REQUIRED UNDER THE NUT. BOLTS SHALL BE INSTALLED AS SHOWN IN GRAPHIC NO. 11. THE USE OF FINGER SHIMS ARE ALLOWED AS NEEDED UP TO 1/4 INCH GAPS WITHOUT RESTRICTIONS, OTHERWISE CONTACT SIDEPLATE FOR REMEDIAL MEASURES.
4. BOLT IN FIELD AS SHOWN IN GRAPHIC NO. 12.



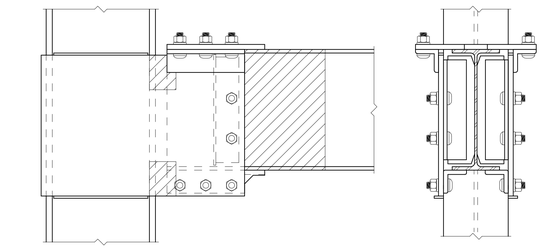
GRAPHIC NO. 9 - FIELD ERECTION OF SIDEPLATE BEAM ASSEMBLY



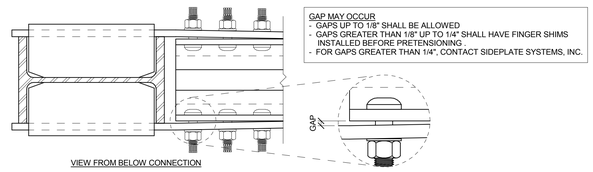
GRAPHIC NO. 10 - INCORRECTLY RACKED BEAM



GRAPHIC NO. 11 - BOLTING DETAIL



GRAPHIC NO. 12 - COMPLETED SIDEPLATE BOLTED CONNECTION



GRAPHIC NO. 13 - SNUG TIGHT CONDITION PRIOR TO PRETENSIONING BOLTS

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GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET
	07.10.17	STRUCTURAL STEEL BID STEEL
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
SP CONSTRUCTION GUIDELINES

Sheet No.
2S-307

1/18/2018 4:56:44 PM
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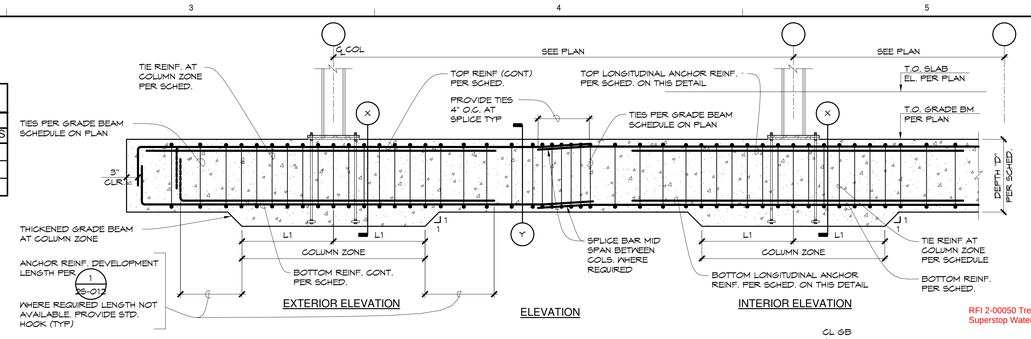
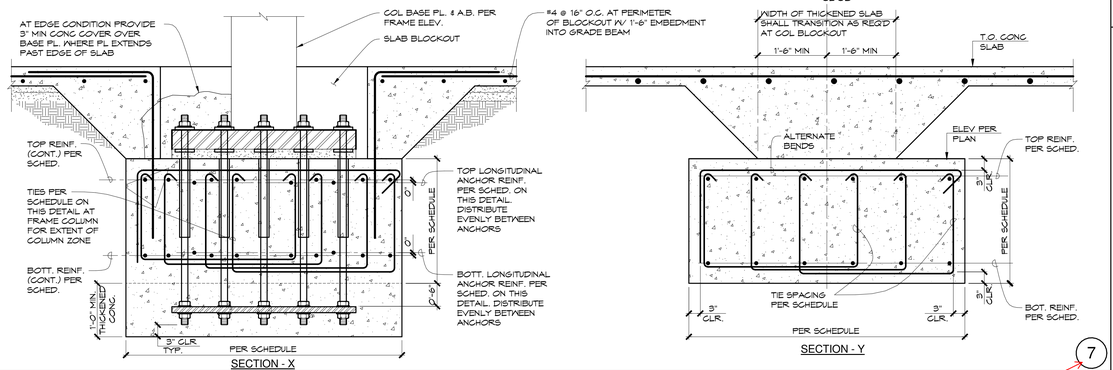
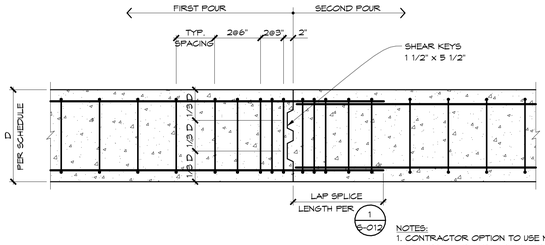
FRAME COLUMN ZONE SCHEDULE					
FRAME COL SIZE	'L1'	ANCHOR REINF. TOP	ANCHOR REINF. BOTT.	TIE REINF. SIZE	TIE REINF. # OF LEGS
W21x132	3'-8"	(4)-#8	(4)-#8	#4 @ 6" O.C.	(5)
W24x176	4'-10"	(2)-#8	(4)-#8	#4 @ 6" O.C.	(5)
W24x250	5'-2"	(3)-#8	(3)-#8	#4 @ 6" O.C.	(5)





TYPICAL GRADE BEAM



NOTES:
1. CONTRACTOR OPTION TO USE MECHANICAL BAR SPLICER IN LIEU OF LAP SPLICE. MECHANICAL SPLICE SHALL DEVELOP 125% OF THE SPECIFIED REBAR YIELD STRENGTH.
2. LOCATE COLD JOINT AT ±1/3 THE DISTANCE BETWEEN COLUMNS.

TYPICAL GRADE BEAM CONSTRUCTION JOINT (23)

NOTES:
1. GRADE BEAM SHEAR TIES NOT SHOWN FOR CLARITY. FOR ADD'L INFORMATION SEE 7/-

T = GRADE BEAM THICKNESS PER SCHEDULE.

TYPICAL STEPPED GRADE BEAM (9)

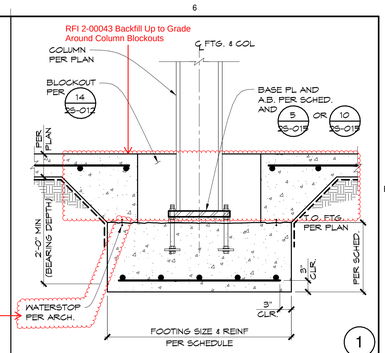
THICKENED SLAB @ MEZZ. COLUMNS (20)

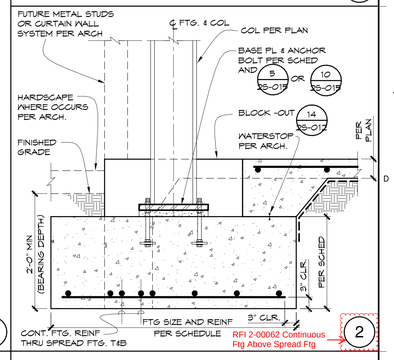
(15)

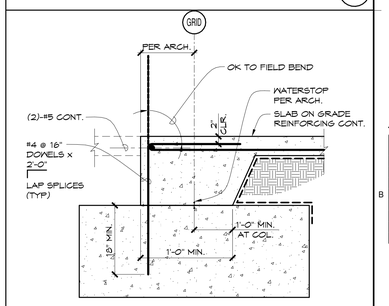
TYP SLAB EDGE WITH CURB (10)

RFI 2-00037 Stair Detail Clarification

TYP SLAB EDGE (5)







REINF. TO SLAB ON GRADE AT EDGE CONDITION GRADE BEAM (4)

RFI 2-00053 Rebar to Shear Key Clearance (7)

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
FOUNDATION DETAILS

Sheet No.
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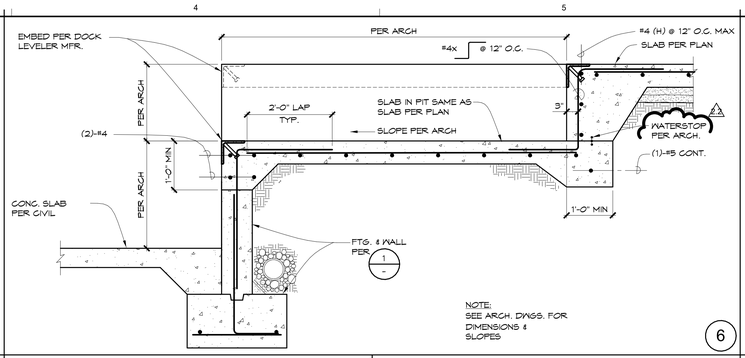

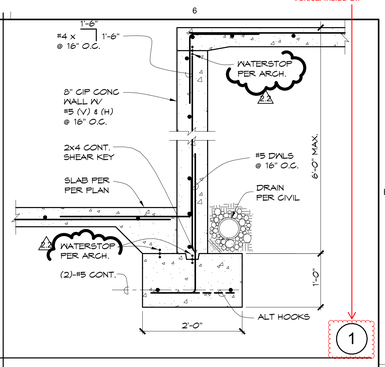

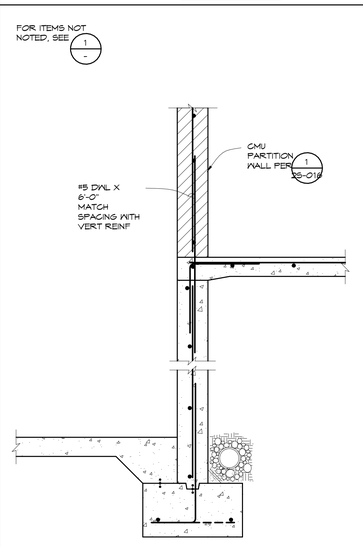

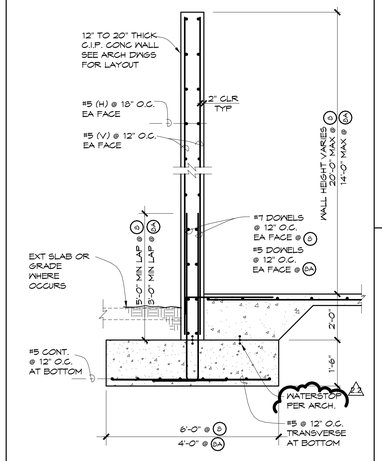

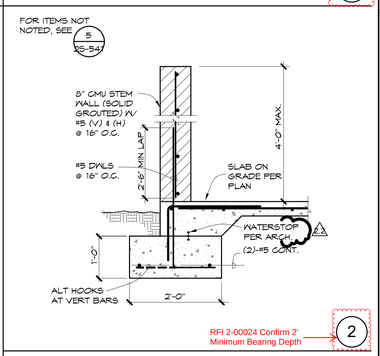

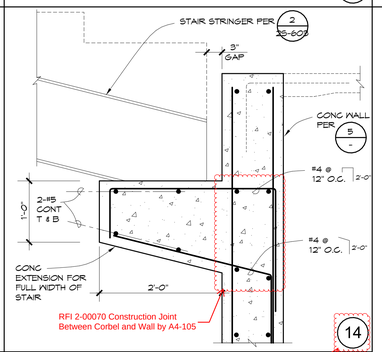

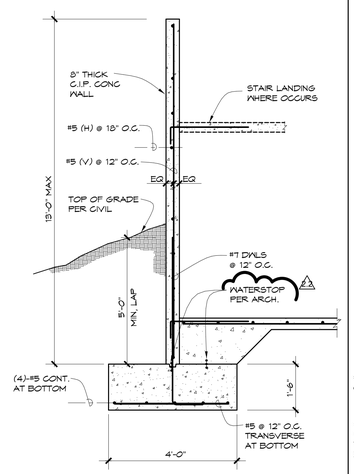

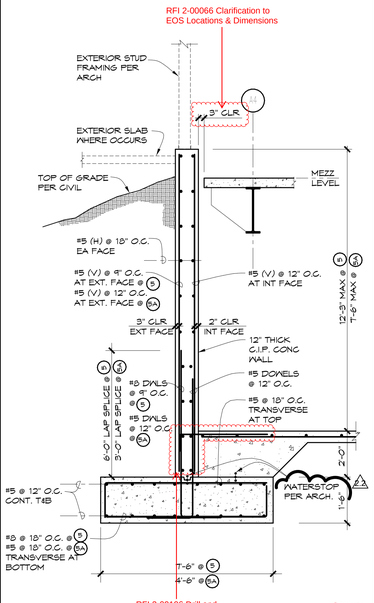

NOT USED 3

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
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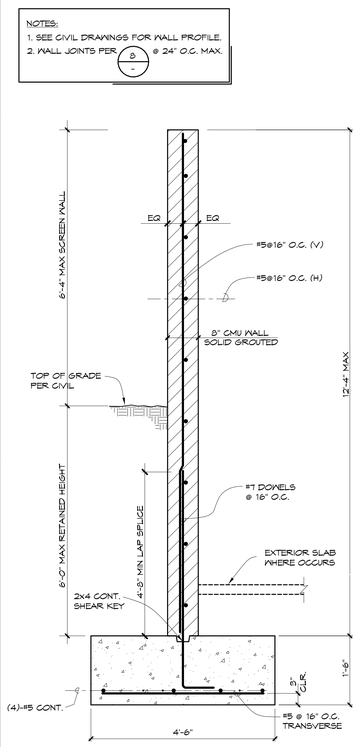
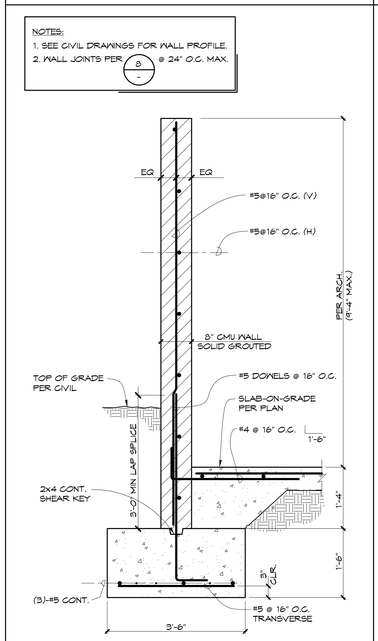
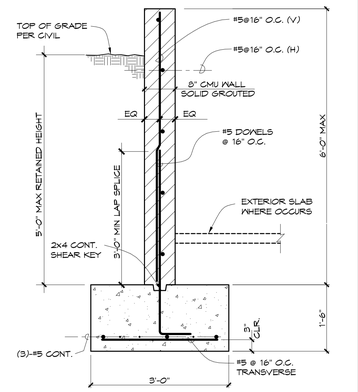


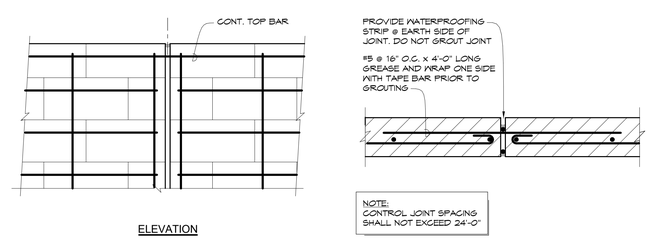
TYP RETAINING WALL "E"
(FRONT OF 8959 BLDG) 23



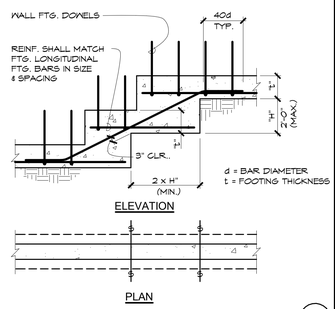
TYP RETAINING WALL "C"
(TRASH ENCLOSURE) 18



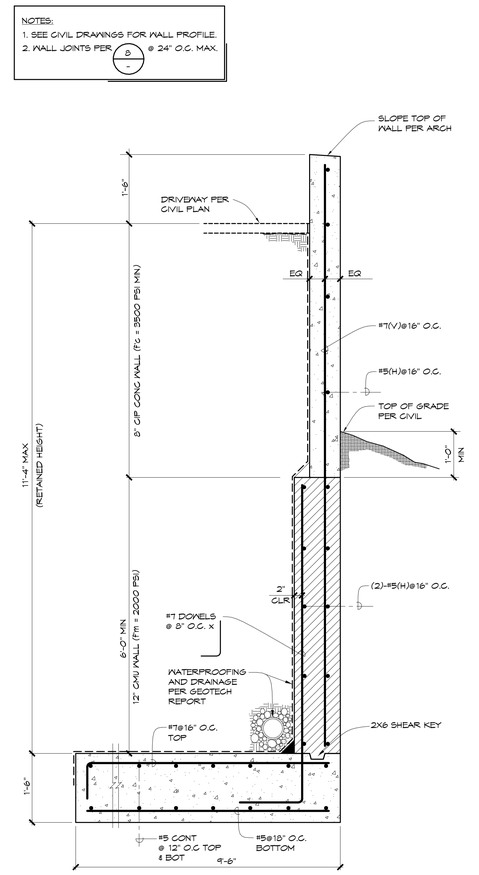
TYP RETAINING WALL "D"
(NORTH-WEST OF 8959 BLDG) 20



TYPICAL CMU RETAINING WALL CONTROL JOINT 6

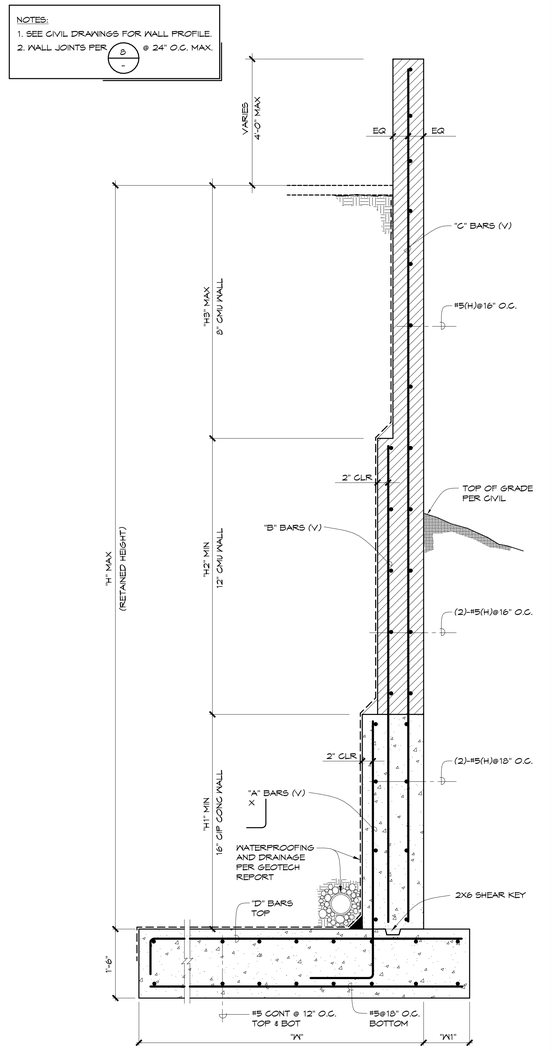


TYP. STEPPED FOOTING AT RETAINING WALL 1



TYP RETAINING WALL "B" (WEST) 15

RETAINING WALL SCHEDULE									
"H" MAX.	WALL HEIGHTS "H1"	"H2"	"H3"	FOOTING SIZE "W"	"W1"	REINF. SIZE & SPACING "A" BARS	"B" BARS	"C" BARS	"D" BARS
16'-2"	4'-8"	6'-0"	5'-6"	15'-0"	1'-0"	#5 @ 8" X	#T @ 8"	#T @ 16"	#T@8"X
14'-0"	4'-8"	5'-6"	6'-0"	14'-0"	0'-0"	#T @ 8" X	#T @ 16"	#T @ 16"	#T@12"X
12'-0"	-	6'-8"	5'-4"	11'-0"	0'-0"	-	#T @ 8" X	#T @ 16"	#T@12"X
10'-0"	-	4'-8"	5'-4"	8'-0"	0'-0"	-	#T @ 16" X	#5 @ 16"	#T@16"X
8'-0"	-	-	8'-0"	6'-6"	0'-0"	-	-	#T @ 8" X DWLS #5(V) @ 16"	#T@16"X LAP SPLICE
6'-0"	-	-	6'-0"	5'-0"	0'-0"	-	-	#T @ 16" X DWLS #5(V) @ 16"	#5@16"X LAP SPLICE



TYP RETAINING WALL "A" (NORTH) 5

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
FOUNDATION DETAILS

Sheet No.
2S-543

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11/17/2017 11:50:29 AM
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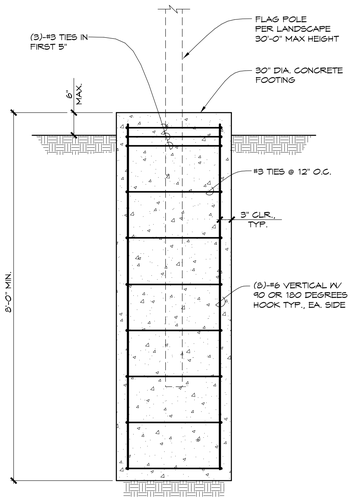
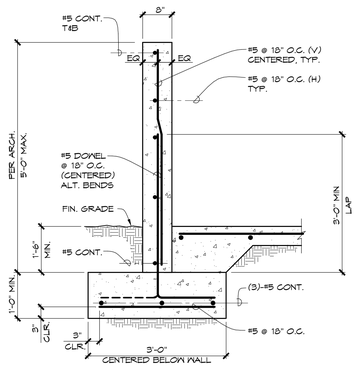
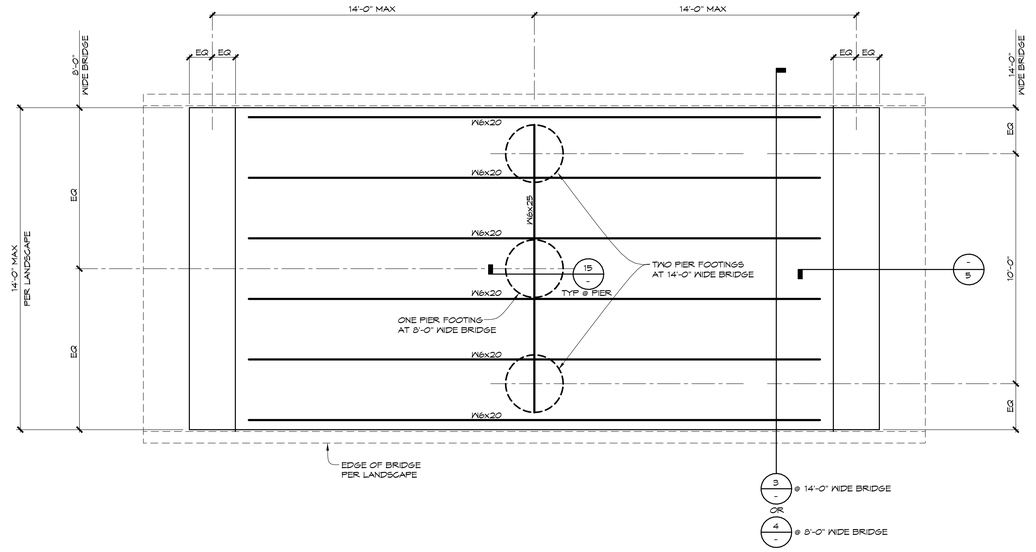


FLAG POLE FOUNDATION (27)



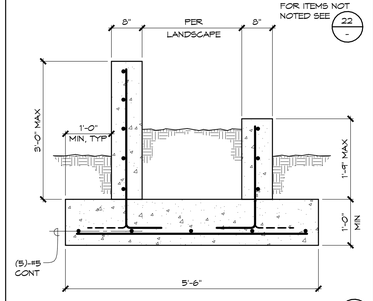
MONUMENT SIGN TYPICAL (22)



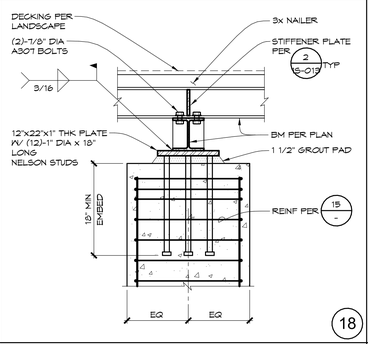
PEDESTRIAN BRIDGE FRAMING PLAN

SCALE: 3/8" = 1'-0"

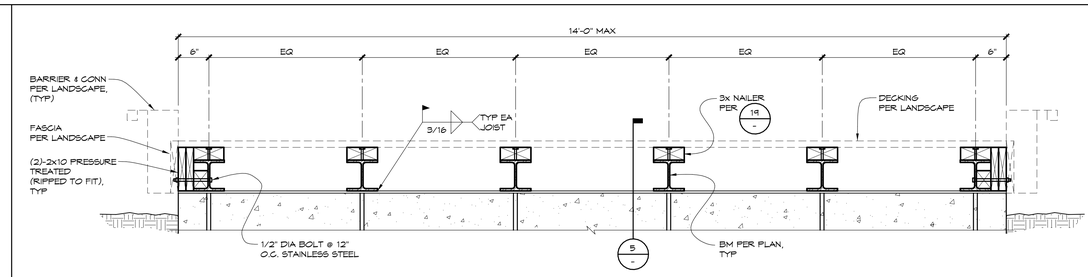
2



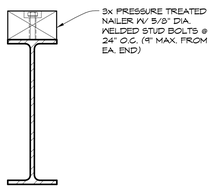
MONUMENT SIGN AT PLANTER (23)



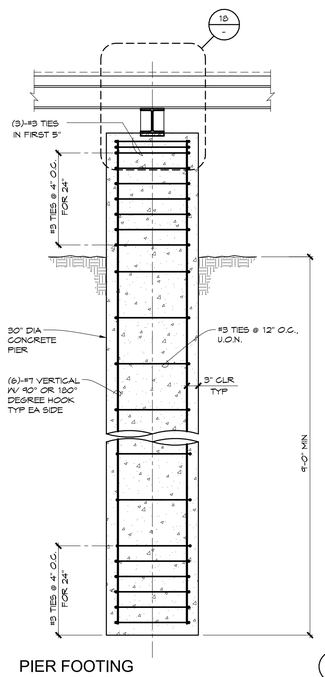
TYPICAL CROSS SECTION AT 14'-0" WIDE BRIDGE (3)



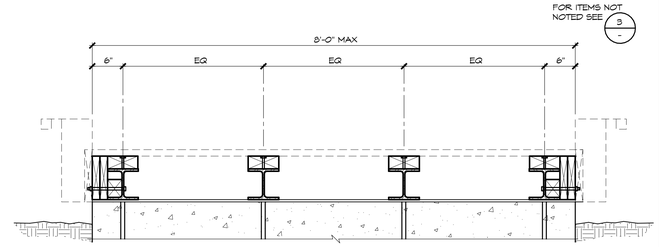
NOT USED (24)



TYPICAL NAILER (19)

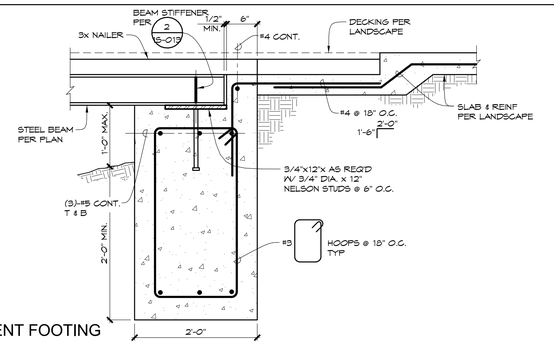


PIER FOOTING (15)



TYP. CROSS SECTION AT 8'-0" WIDE BRIDGE (4)

NOT USED (25)



ABUTMENT FOOTING (5)

NOT USED (20)

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
STRUCTURAL DETAILS

Sheet No.
2S-544

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/7/2017 11:43:01 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

FOR ITEMS NOT NOTED SEE 18 - 22 -

X3

T.O STL ELEV PER PLAN

T.O STL ELEV PER PLAN

L3X3X1/4 CONT SEE 18 - SIM

W21X OR W18X SKEWED BM PER PLAN

1" MAX

WT15X49.5 X 1'-0" CUT STEM AS REQD

MIN (4) 1" DIA A325N BOLTS (TOTAL) CONFIGURATION SHALL BE AS SHOWN BOLT SPACING PER 10 SS-013

FULL DEPTH STIFF PL PER 2 SS-013 AND SKEW CONN PER 15 SS-013

WT TO BM

5/16

NOTE: INTERSECTING BM NOT SHOWN FOR CLARITY

RFI 2-00021 - Schuff Steel
RFIs 54 Through 62

28

GURB PER 30 SS-013

SEE ARCH DWGS FOR LOCATION AND SIZE

306

SHIM PER 14 SS-013

2'-1 5/8" VERIFY W/ ARCH

1'-6" MIN LAP

CONC & STL DECK PER PLAN TYP

(3)-#5

5/8" DIA X 0'-8" STUDS @ 24" O.C.

#5 CONT

2" CLR

#4@ 12" O.C.

2'-0"

T.O. STL ELEV. PER PLAN

(3)-#5

T.O. STL ELEV. PER PLAN

BM PER PLAN TYP

(2)-1" DIA A325N BOLTS

6"

BM PER PLAN

COL. PER PLAN

CONT PL AND WELD PER 23 SS-013

3/8

3/8

23

℄ BEAM

#3@18" O.C.X 3'-0"

2'-0"

2 1/4"

2'-0"

12 GA. PLATE CONT.

PER ARCH. (6" U.O.N.) t (MIN.)

#4 CONT.

TOOL FINISH & SEAL PER ARCH.

WATERPROOFING PER ARCH.

CONC. TOPPING PER PLAN WHERE OCCURS

DIRECTION OF FLUTES PER PLAN

1/16 1 1/2" @ 12" TYP T & B

STEP PARALLEL TO DECK

GL. BM.

3/16 2-12

PER ARCH. (6" U.O.N.)

#3 x 4'-0" @ 18" O.C.

X

4" MAX.

DIRECTION OF FLUTES PER PLAN

PL.1/4" x 3" @ 2'-0" O.C.

L4x3x1/4 LLV CONT. (L5x3x1/4 LLV IF "X" IS 3" OR LARGER)

3/16

STEP PERPENDICULAR TO DECK
(STEP LESS THAN 4")

GL. BEAM

#3 @ 18" O.C. X 3'-0"

3'-0"

PER ARCH. (6" U.O.N.) t (MIN.)

#4 CONT.

TOOL FINISH & SEAL PER ARCH.

WATERPROOFING PER ARCH.

CONC. TOPPING PER PLAN WHERE OCCURS

X

MORE THAN 4"

DIRECTION OF FLUTES PER PLAN

3/16 2-12

L3x3x1/4 CONT.

STEP PERPENDICULAR TO DECK
(STEP 4" OR LARGER)

23

TYP. STEP IN CONC./STEEL DECK

5053-13

18

NOTES:
1. DECK EDGE LOCATION IS PER ARCH.
2. CTR LINE OF BEAM IS 9" FROM DECK EDGE U.O.N.

GL. BEAM

PER ARCH.

1"±

11" MAX.

CONC. TOPPING PER PLAN

OPTION TO EXTEND CLOSURE PL. OR PROVIDE MUD-STOP AT TOPPING EDGE.

UP TO 11" OVERHANG

℄ BEAM

PER ARCH.

1"±

GREATER THAN 11", 1'-6" MAX.

CONC. TOPPING PER PLAN

OPTION TO EXTEND CLOSURE PL. OR PROVIDE MUD-STOP AT TOPPING EDGE.

UP TO 1'-6" OVERHANG

℄ BEAM

PER ARCH.

1"±

GREATER THAN 1'-6", 2'-6" MAX.

CONC. TOPPING PER PLAN

OPTION TO EXTEND CLOSURE PL. OR PROVIDE MUD-STOP AT TOPPING EDGE.

FOR ITEMS NOT NOTED SEE 8 -

UP TO 2'-6" OVERHANG

TYP. DECK EDGES
(W/ CONC. AND TOPPING SLAB)

5053-18

13

NOTES:
1. DECK EDGE LOCATION IS PER ARCH.
2. CTR LINE OF BEAM IS 9" FROM DECK EDGE U.O.N.

GL. BEAM

PER ARCH.

1"±

11" MAX.

FUTURE MTL. STUDS OR CURTAIN WALL

(2)-#5 MIN. U.O.N. ON PLAN

3/16 2-12

#3 @ 18" O.C.

2'-0" MIN.

MATCH "L"

3/8" DIA. x 4" LG. NELSON STUD @ 18" O.C.

2" MIN.

1/4" BENT PL. OR ANGLE

FULL HT. SHEAR PL. PER 2 SS-013

UP TO 11" OVERHANG

℄ BEAM

PER ARCH.

1"±

GREATER THAN 11", 1'-6" MAX.

FUTURE MTL. STUDS OR CURTAIN WALL

(2)-#5 MIN. U.O.N. ON PLAN

3/16 2-12

#3 @ 18" O.C.

2'-0" MIN.

1/4" BENT PL. OR ANGLE

MATCH "L"

L4x3x1/4 (LLV) @ 4'-0" O.C. MAX.

6 1/2" MAX

1/4 1 1/2-6

3/16

FULL HT. SHEAR PL. PER 2 SS-013

UP TO 1'-6" OVERHANG

℄ BEAM

PER ARCH.

1"±

GREATER THAN 1'-6", 2'-6" MAX.

FUTURE MTL. STUDS OR CURTAIN WALL

(2)-#5 MIN. U.O.N. ON PLAN

3/16 2-12

#3 @ 18" O.C.

2'-0" MIN.

1/4" BENT PL. OR ANGLE

MATCH "L"

6 1/2" MAX

1/2" GUSSET PL. @ 4'-0" MAX.

2'-6" MAX.

MIN. 4" OF WELD EA. SIDE @ OUTER END OF GUSSET PL.

1/4 1 1/2-6

MIN. 4" OF WELD @ T&B OF GUSSET PL. TO BM. WEB

1/4 2-6

FULL HT. SHEAR PL. PER 2 SS-013

UP TO 2'-6" OVERHANG

NOTE: FOR OVERHANG OVER 2'-6", SEE 5 - 5053-15

TYP. DECK EDGES (W/ CONC.)

5053-12

8

NOTES:
1. DECK EDGE LOCATION IS PER ARCH.
2. CTR LINE OF BEAM IS 9" FROM DECK EDGE U.O.N.

GL. BEAM

PER ARCH.

1"±

11" MAX.

T.O PARAPET PER ARCH.

FUTURE MTL. STUDS OR CURTAIN WALL

5/16" BENT PL. OR ANGLE x 5"

3/16 2-12

BENT PL. TO BEAM

PER ARCH. 5'-0" MAX.

2" MIN

FULL HT. SHEAR PL. PER 2 SS-013

UP TO 11" OVERHANG

℄ BEAM

PER ARCH.

1"±

GREATER THAN 11", 1'-6" MAX.

T.O PARAPET PER ARCH.

FUTURE MTL. STUDS OR CURTAIN WALL

5/16" BENT PL. OR ANGLE x 5"

3/16 2-12

#3 @ 18" O.C.

2'-0" MIN.

L4x3x1/4 (LLV) @ 4'-0" O.C. MAX.

6 1/2" MAX

1/4 1 1/2-6

MIN. 4" OF WELD EA. SIDE @ OUTER END OF GUSSET PL.

3/16

FULL HT. SHEAR PL. PER 2 SS-013

UP TO 1'-6" OVERHANG

℄ BEAM

PER ARCH.

1"±

GREATER THAN 1'-6", 2'-6" MAX.

T.O PARAPET PER ARCH.

FUTURE MTL. STUDS OR CURTAIN WALL

5/16" BENT PL. OR ANGLE x 5"

3/16 2-12

#3 @ 18" O.C.

2'-0" MIN.

1/2" GUSSET PL. @ 4'-0" MAX.

6 1/2" MAX

2'-6" MAX.

MIN. 4" OF WELD EA. SIDE @ OUTER END OF GUSSET PL.

1/4 1 1/2-6

MIN. 4" OF WELD @ T&B OF GUSSET PL. TO BM. WEB

1/4 2-6

FULL HT. SHEAR PL. PER 2 SS-013

UP TO 2'-6" OVERHANG

NOTE: FOR OVERHANG OVER 2'-6", SEE 4 -

TYP. DECK EDGE (W/O CONC.)

5053-09

3

RFI 2-00100 Bent Plate Landing at W12

FOR ITEMS NOT NOTED, SEE 28 - 18 SS-013

X3

COL PER PLAN

SKEW CONN PER SIM 15 SS-013

30

FOR ITEMS NOT NOTED, SEE 22 -

306

SHIM PER 14 SS-013

L6x6x5/16 X 0'-6" WELD TOE ONLY

1/4

304

COL PER PLAN

1/2"

3 1/2" MAX.

23 -

NOTCH BM AT SIDEPLATE CONNECTION 1" CLR MAX

1'-8"

T

3/4" STIFF PL

CONT PL AND WELD PER 23 SS-013

BM PER PLAN

20

3/4 12"

6" MIN. 6" MIN.

#3@18" MIN.

(2)-#3 MIN.

CLOSURE PL. PER 21 SS-013

"X"

"X"

NOTE:
WHERE OVERHANG DIM "X" EXCEEDS 10", BREAK PL AS SHOWN IN DETAIL 15 -

DETAIL AT ADJACENT
INTERIOR OPENING

5300-23A

14

PER ARCH.

1"±

GREATER THAN 2'-6", 4'-1" MAX.

CTR LINE OF BEAM

FOR ITEMS NOT NOTED, SEE 5 -

L4x3x1/4 (LLV) @ 2'-6" O.C. MAX.

3/16 2-12

HSS TO BM

HSS BM BELOW PER PLAN

4

RFI 2-00021 - Schuff Steel
RFIs 54 Through 62

1'-8" MAX.

6" U.O.N.

3/8"DIA.x4" LG. NELSON STUD @ 16" O.C.

3/16 2-12

#3 @ 18" MIN.

(2)-#5

1/4" BENT PL OR ANGLE

1/2" GUSSET PL @ 4'-0" O.C.

6 1/2" MAX.

1/4" BENT PL OR ANGLE

FULL HT STIFFENER PL. PER 2 SS-013 @ 4'-0" O.C. ALIGN W/ GUSSET

1/4

1/4

1/4

1/4 2-6

DETAIL AT SLAB EDGE
WITH ADJACENT OPENING

5300-23

15

PER ARCH.

1"±

GREATER THAN 2'-6", 3'-6" MAX.

CTR LINE OF BEAM

FUTURE MTL. STUDS OR CURTAIN WALL

(OPTIONAL SHOP OR FIELD)

3/16 2-12

(2)-#5 MIN. U.O.N. ON PLAN

PROVIDE MIN (4) 13/16" DIA HOLES IN BENT PL AND PLUG WELD TO ANGLE BELOW

#3 @ 12"

3'-0" MIN.

1/4" BENT PL. OR ANGLE

3'-6" MAX.

MATCH "L"

3/8" DIA. x 4" LG. NELSON STUD @ 16" O.C.

6 1/2"

3/16 2

L4x3x1/4 (LLV) @ 3'-0" O.C. MAX.

3/16

3/16

3/16 2

FULL HT. SHEAR PL. PER 2 SS-013

1/4" GUSSET PL.

TYP. BRACED DECK EDGE (W/ CONC.)

5053-15

5

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

STRUCTURAL DETAILS

Sheet No.

2S-551

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

10/2/2017 11:44:47 AM
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HSS COL PER PLAN
1/4
TYP
HSS BEAM PER PLAN

26

TYP 1 2S-013
HSS COL PER PLAN
FOR ITEMS NOT NOTED SEE 23 -
WF BEAM PER PLAN
1/2" GUSSET PL
EQ EQ
6"
TYP 5/16

21

305
BEAM PER PLAN
CONN. PER 5 2S-203
HSS COL PER PLAN
18
BEAM PER PLAN 28 -
HSS BEAM PER PLAN

PLAN

27

HSS TO HSS 1/4
SLOT HSS TO AS REQ'D AT GUSSET PL
½"
FOR ITEMS NOT NOTED SEE 23 -

22

L4x4x1/2 x 1'-0" TOP & BOTT.
HSS COL PER PLAN
3 SIDES TO COL TYP
1/4
3 SIDES TO ANGLE, TYP
SHEAR PL PER 28 2S-013
BEAM PER PLAN
HSS PER PLAN CONN. TO COL. PER 26 2S-013
1

SECTION

28

TYP 3/16
1/2" GUSSET PL
#3 CLEVIS
ROD PER ELEV
1 1/4" DIA A307 THRU BOLT, TYP
EQ EQ
6"
HSS BEAM PER PLAN
TYP
HSS COL PER PLAN

NOTES:
1. CLEVIS MATERIAL SHALL BE ASTM A668 CLASS F (HIGH STRENGTH).
2. SLEEVE NUT MATERIAL SHALL BE ASTM A563 GR. DH.

23

302 302.2 303.1 305

15 - TYP
ELEV PENTHOUSE
ROOF LEVEL-Z2
HSS PER PLAN
WF PER PLAN
21 - O.H.
LEVEL 04-Z2
22 - O.H.
28 - TYP
1" DIA ROD, TYP
LEVEL 03-Z2
SIM O.H. 23 -
HSS COL PER PLAN
24 - O.H.
SIM 23 -
LEVEL 02-Z2
25 - O.H.
10 2S-015 TYP
LEVEL 01.4-Z2

RFI 2-00001 Inter-story drift on Novum Door Portal

ELEVATION - SOUTH ATRIUM
SCALE: 1/8" = 1'-0"

13

T.O.S.= 81'-8"
T.O.S.= 74'-2"
11'-6" MAX
4 -
HSS PER PLAN TOP & BOT.
1'-6"
3/16
BRACE PER 3 -
WALL FINISH PER ARCH
HSS 6X6X1/4 VERT POST
EQUALLY SPACED HSS4X4X1/4 INTERMEDIATE COLUMNS @ 6'-0" O.C. MAX CONN. AT TOP & BOTT. PER 9 -
PL 3/4"X12"SQ.
9" TYP.
1/4
(4)-3/4"DIA. A325N BOLTS (GALV.)
CONSTANT ELEVATION PER ARCH. DWGS.
VARIES (2'-0" MIN. 5'-0" MAX.)
ROUND HSS 5.0X0.250
ROOF
4"
3/8" STIFF.
BM. PER PLAN

TYP. MECH. SCREEN SUPPORT

2

1'-0"
1 1/2"
1 1/2"
(4)-3/4"DIA. A325N BOLTS (GALV.)
ROUND HSS
1 1/2"
1'-0"
1 1/2"
1/4
3/4" THICK BASE PLATE
X

6'-0" TO CL OF SCREEN POST
ROUND HSS 5.0X0.250
X
6'
VERIFY ELEV. W/ ARCH DWGS
VARIES (2'-0" MIN. 5'-4" MAX.)
1/4
ROUND HSS 5.0X0.250
T.O. STEEL PER PLAN
2 -

3

CTR LINE COL
HSS PER PLAN
3/4" DIA BOLT HAND TIGHTEN WITH WASHER OVER SLOTTED HOLE
ROOF
1 7/8" VERTICAL SLOTTED HOLE
STIFF. PL PER 2 2S-013 TYP
L6x6x3/8 EA SIDE, TYP
BEAM PER PLAN, TYP
(2)-3/4" DIA BOLTS
LEVEL 3 & 4
2 1/2"
1 1/2"
3"
TYP
1/4
3 SIDES 3/16
4"
8"
1" GAP
3/4" DIA BOLT HAND TIGHTEN WITH WASHER OVER SLOTTED HOLE
PLATE 1/2" X 4" WIDE EA SIDE WITH 1 7/8" VERTICAL SLOTTED HOLE
2" MAX TYP
LEVEL 2
(2)-3/4" DIA BOLTS

RFI 2-00098 Tube Post Elevations at Atrium

30

FOR ITEMS NOT NOTED SEE 23 -
1 2S-015
1/2" GUSSET PL
TYP 5/16
EQ EQ
6"
WF BEAM PER PLAN
HSS COL PER PLAN

24

1/2" PL
#3 CLEVIS
6"
EQ EQ
½"
ROD PER ELEV
1 1/4" DIA A307 THRU BOLT, TYP
1" CLR
STAIR SLAB WHERE OCCURS
5/16

RFI 2-00111 Slab Elevation at Stair 1

25

HSS BEAM PER PLAN
1"
HSS COL PER PLAN
Y -
HSS TO TOP PL, TYP
5/16

PLAN

RFI 2-00088 Steel Closure Plate at Detail 15-2S-552
1'-1"
1'-1"
X
TYP 5/16
1/2" TOP PL
1/2" PLATE EA SIDE, TYP
1"
FL TO HSS 5/16
5/16
HSS TO ANGLE, TYP
L6x4X1/2 (LLH) W/ 1/2" STIFFENER @ MIDSPAN

ELEVATION X

ELEVATION Y

RFI 2-00051 Structural Glazing Framing Details - 2017.12.06

15

TYP. ANGLE TO HORIZ. HSS
3/16
(2)-3/4" DIA. BOLTS
L5x3x1/4xCOL. WIDTH (LLV), TYP.

ELEVATION

9

1/4
1/4
HSS COL PER PLAN
HSS BEAM PER PLAN

10

1/4" CAP/STRAP PLATE X POST WIDTH X (POST DEPTH + 11")
(2)-3/4" DIA. A307 BOLTS, TYP.
L5x3x5/16 x POST DEPTH (LLH), TYP.
1/2" GAP
KEEP HOLE, TYP.
3/16
TYP.
PLATE TO POST

4

(2)-3/4" DIA A307 BOLTS, TYP.
3/16
TYP.
HORIZ. HSS PER PLAN
KEEP HOLE, TYP.
L5x3x5/16 x POST DEPTH (LLH), TYP.
1/2" GAP.

5

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2

CITY SUBMITTAL SET
08.08.17

Sheet Title
STRUCTURAL DETAILS

Sheet No.
2S-552

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

11/17/2017 11:44:51 AM
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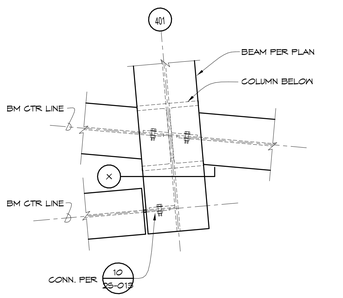
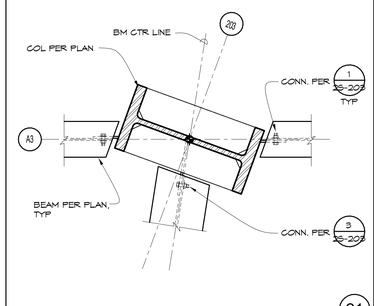
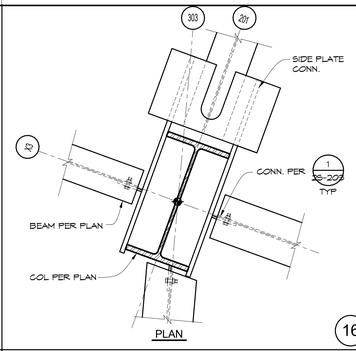




PLAN 21



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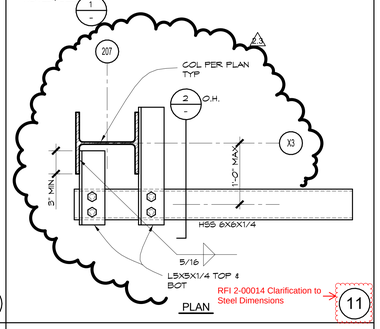
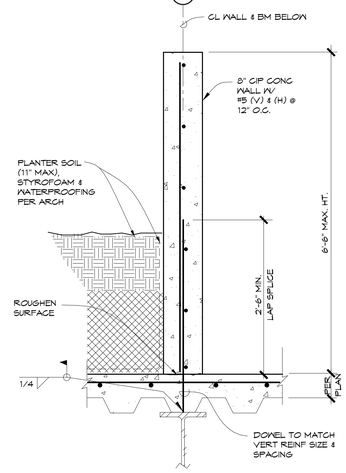


RFI 2-00014 Clarification to Steel Dimensions

PLAN 11



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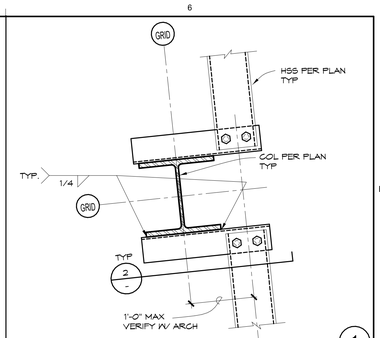

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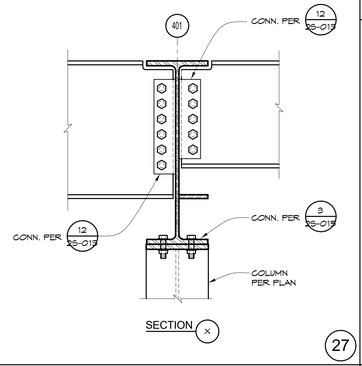

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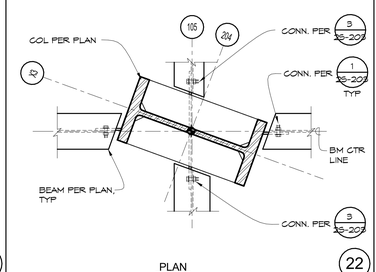

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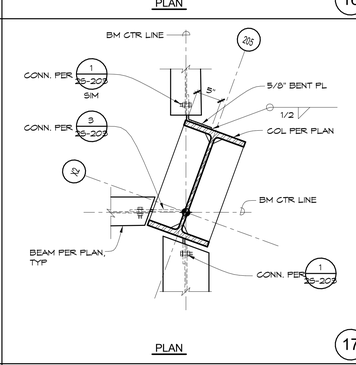

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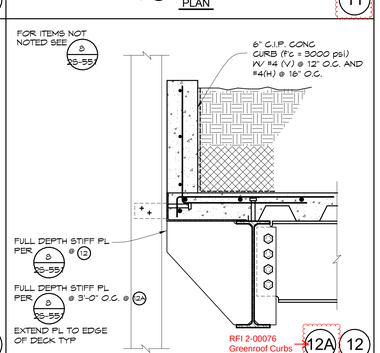
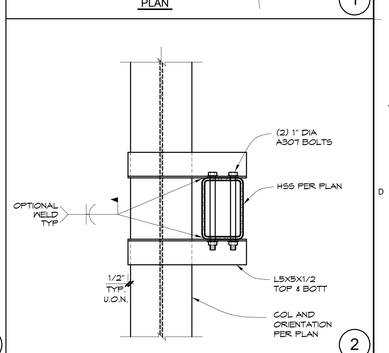


RFI 2-00076 Greenroof Curbs

12A 12



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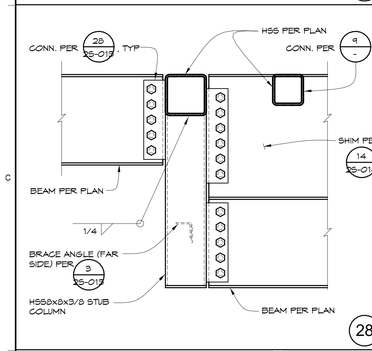

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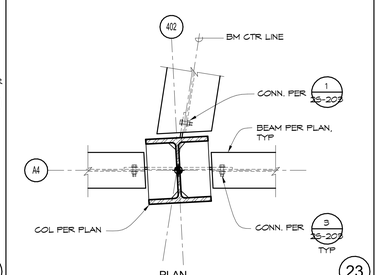

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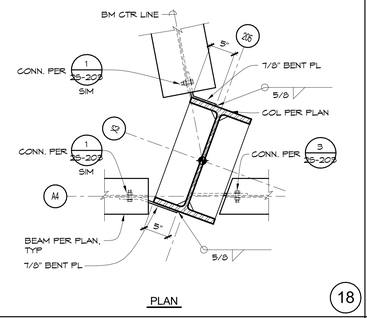

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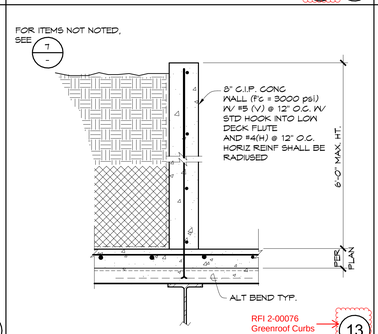
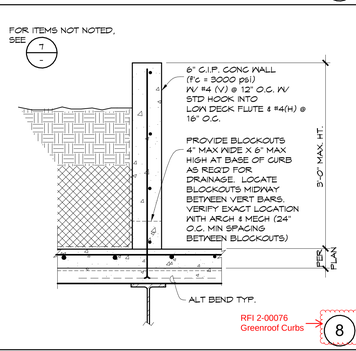


RFI 2-00076 Greenroof Curbs

13



RFI 2-00076 Greenroof Curbs

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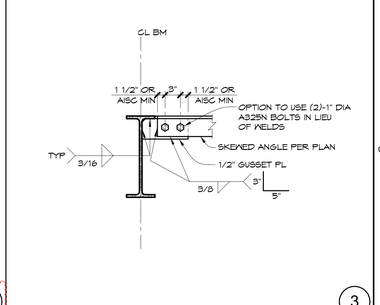

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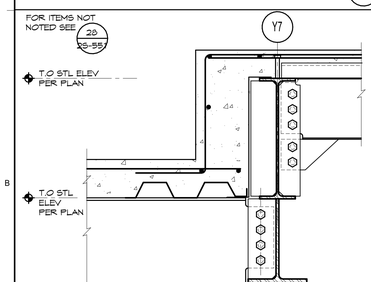

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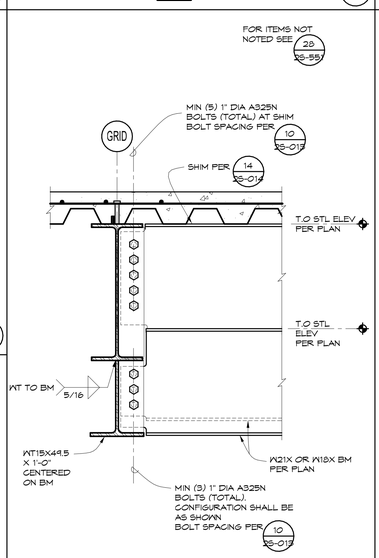
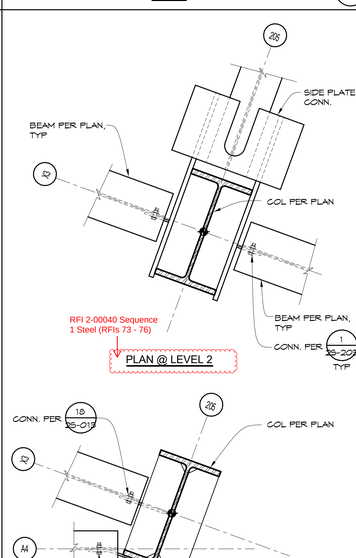
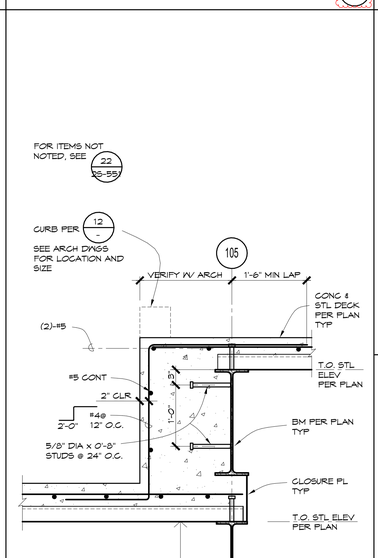




RFI 2-00040 Sequence 1 Steel (RFIs 73 - 76)

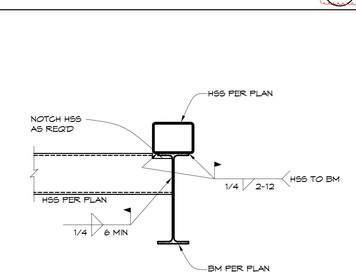
PLAN @ LEVEL 2

PLAN @ GREEN ROOF 20



RFI 2-00040 Sequence 1 Steel (RFIs 73 - 76)

15



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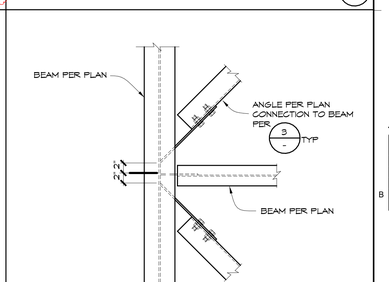

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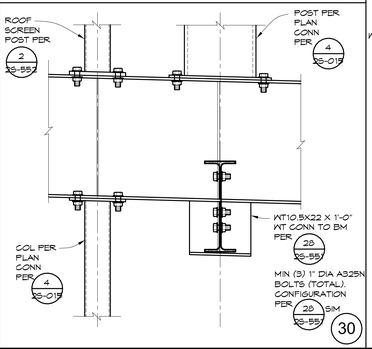

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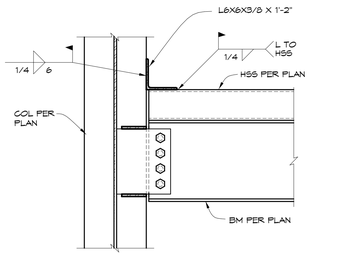

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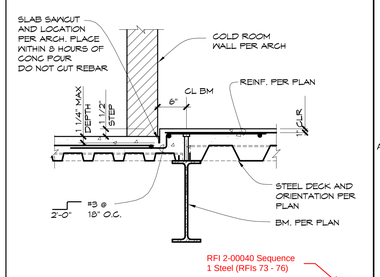

RFI 2-00040 Sequence 1 Steel (RFIs 73 - 76)

SLAB JOINT AT COLD ROOM WALL 5

GENE THEORY -
CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
STRUCTURAL DETAILS

Sheet No.
2S-553

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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FOR ITEMS NOT NOTED SEE 16 -

WASHER
HEX NUT
UNISTRUT P1000
THREADED ROD PER DETAILS.

21

3/8"□ KB-TZ (ICC ESR-1917) TYP.

hef = 2"

UNISTRUT P1843 W/ HINGE W/ 1/2" DIA BOLTS

WASHER
HEX NUT
UNISTRUT P1000
UNISTRUT BRACE PER DETAILS

TYP. LATERAL BRACING SUPPORT AT STEEL DECK W/ CONC. FILL

16

3/8"□ THREADED ROD
P-1000 T-CHANNEL STIFFENER
P2485 CRADLE CLIPS SPACED @ 1'-0" O.C.
LATERAL BRACE
LATERAL BRACE
L=1'-0"
L=1'-0"
6" MAX.
P2485 CRADLE CLIP
ALL-THREADED ROD
P-1000 T-LENGTH (8" SHORTER THAN ROD)
P-3008 NUT
3/8" x 1" HHCS

NOTE:
TIGHTEN 3/8" BOLT SNUG AGAINST ROD.

CHANNEL STIFFENER

11

HSS PER PLAN
COL PER PLAN
ERECTION L AS REQ'D.

6

1 1/2", 20 GA STEEL DECK W/ (4)-#8 SMS PER SHEET AT EA SUPPORT AND SIDELAP CONN @ 36" OC
18 GA. SHEET METAL
#8 S.M.S. @ 12" O.C. EA. WAY
JOIST PER PLAN

NOTES:
1. END BEARING SHALL BE 2" MIN.
2. DECK SHALL BE CONT. OVER 2 SPANS MIN.

TYP. METAL FLOOR FASTENER PATTERN

1

4'-6" MAX.
LEVEL 2
FOR ITEMS NOT NOTED SEE 17 -
P5500T
P5501T @ 2'-0" O.C. MAX
PER PARTITION MFR.

TYP. PARTITION SUPPORT AT STACK

22

5'-0" MAX.
LEVEL 2
21 -
P100T W/ P2785 BM CLAMPS TYP.
UNISTRUT P1000T CHANNEL STIFFENER (REQ'D ONLY WHEN H>1'-0") PER 11 -
3/8" DIA THREADED ROD
P1843 HINGE
UNISTRUT P1000 BRACING. SEE PLAN FOR LAYOUT. CONN. TO DECK PER 16 - TYP
P5500T
P5501T @ 6'-0" O.C. MAX
HANGER RODS AND PLATE PER PARTITION MFG
12 -
MAX. KIT OF PARTITION = 170 PLF

PARTITION PARALLEL TO FRAMING ABV.

17

UNISTRUT PER DETAILS CONNECT W/ 1/2" DIA. BOLTS WITH SQUARE PLATE WASHER TOP & BOTT.
UNISTRUT PER DETAILS
HANGER ROD SPACING PER PARTITION MFR
PLATE AND HANGER RODS PER PARTITION MFR.

12

(2) 1" DIA A307 BOLTS
3 1/2" EMBED
1'-0"
2"
2"
1"
L5X5X5/16 TOP & BOTT W/ (2)-1/2" DIA HILTI KB-3 (ICC ESR 1385)

7

RFI 2-00035 Stair 1, 7, and 8 Framing Clarifications

EDGE SCREWS PER PLAN
CMU WALL PER PLAN
JOIST PER PLAN
16 GA. CLIP ANGLE 1/2" LESS THAN JOIST DEPTH W/ #10 S.M.S. @ 2" O.C. EA. LEG
CONT. TRACK SAME GA. AS JOIST W/ (2) 1/2" DIA. KB-3 AT 16" O.C. W/ 3 1/2" EMBED (ICC ESR 1385) OR APPROVED EQUAL

TYP. JOIST TO CMU PARTITION
(PERPENDICULAR)

2

CTR LINE BM AND PARTITION BELOW
CONC. OVER MTL. DECK
LEVEL 2
P1000T, TYP LOCATE AT PARTITION HANGER RODS. PROVIDE (2) P1000T WHERE PARTITION STACKS
BM PER PLAN
3" MIN.
P2785 EA SIDE, TYP
UNISTRUT P1000T CHANNEL STIFFENER (REQ'D ONLY WHEN H>1'-0") PER 11 -
HANGER RODS & PLATE PER PARTITION MFG.
UNISTRUT P1000 BRACE BRACING LAYOUT PER PLAN. CONN. TO DECK PER 16 -

PARTITION CTRD AT FRAMING ABOVE

18

NOT USED

13

FOR ITEMS NOT NOTED, SEE 9 2S-557
GL. BEAM
VERT RAIL POST PER ARCH
1/4

TYP. JOIST TO CMU PARTITION
(PARALLEL)

8

FOR ITEMS NOT NOTED, SEE 2 -
EDGE SCREWS PER PLAN
JOIST PER PLAN
BLKG. SAME GA. AS JOIST TYP. @ 36" O.C.

3

1'-1" MAX.
UNISTRUT PER 17 -
P5571 U FITTING W/ 1/2" DIA. BOLTS
UNISTRUT SUPPORT PER 17 -

19

NOT USED

14

PLATE TO BEAM
PLATE TO BEAM
SECTION

Y10
1'-0"
1/2"
1/2"
3/16
END PL TO STIFF, TYP.
FULL DEPTH STIFFENER PL PER 2 2S-015
1/2" PL END PLATE
BEAM PER PLAN
4'-11 3/4" (PER NOVUM DWGS)
CTR LINE PL

NOTE:
1. SOME ITEMS WERE NOT SHOWN FOR CLARITY

10

SPAN (FT.)	MINIMUM No. OF ROWS
UP TO 14'	1 row @ 1/2 pt.
14' TO 20'	2 rows @ 1/3 pt.
20 TO 26'	3 rows @ 1/4 pts.
OVER 26'	4 rows @ 1/5 pts.

CEILING JOIST PER PLAN
2" MAX. TYP.
CUT & BEND AS REQ'D.
L4x4x16 GA CLIP ANGLE W/ (3)-#10 S.M.S. EA. LEG
FULL-HT BRIDGING PIECE WHERE REQUIRED
BRIDGING TO BE EVERY OTHER JOIST GROUP.
JOIST GROUP
NO BRIDGING HERE
JOIST GROUP

BRIDGING ATTACHMENT

4

HSS PER PLAN
JOIST PER PLAN
16 GA. CLIP ANGLE 1/2" LESS THAN JOIST DEPTH W/ #10 S.M.S. @ 2" O.C. AT JOIST END (3) SHOTPINS TO HSS
CONT. TRACK SAME GA. AS JOIST W/ #10 S.M.S.

TYP. JOIST TO HSS BEAM
(PERPENDICULAR)

5

NOT USED

20

NOT USED

15

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
STRUCTURAL DETAILS

Sheet No.
2S-554

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

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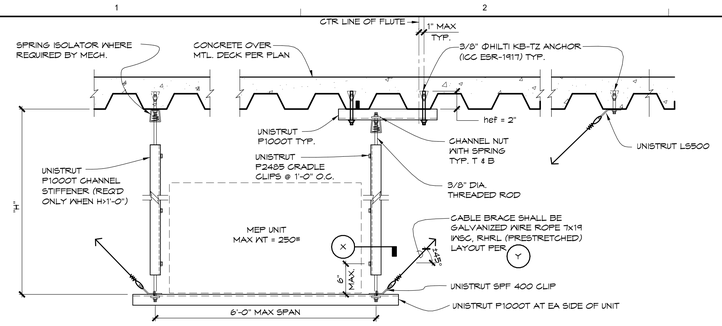
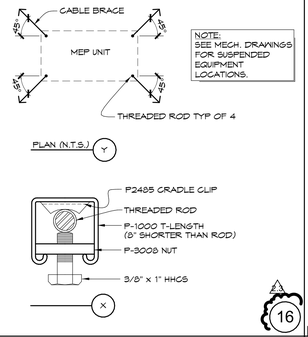
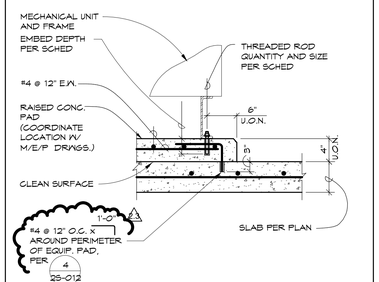


TYPICAL SUSPENDED EQUIPMENT FROM CONCRETE OVER STEEL DECK

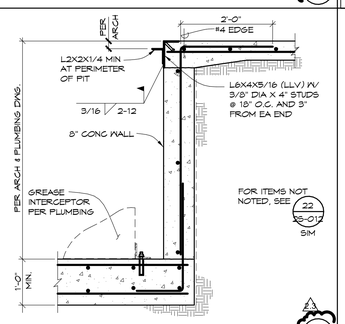


NOTE:
SEE MECH. DRAWINGS FOR SUSPENDED EQUIPMENT LOCATIONS.

16

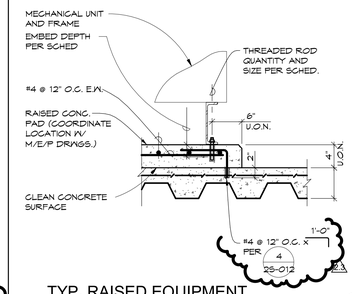


TYP. RAISED EQUIPMENT PAD AT SLAB ON GRADE 11



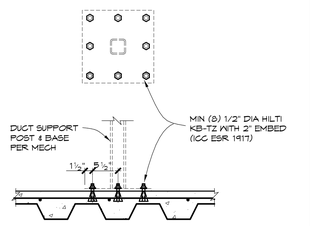
GREASE INTERCEPTOR PIT

17



TYP. RAISED EQUIPMENT PAD AT COMPOSITE STEEL DECK

12



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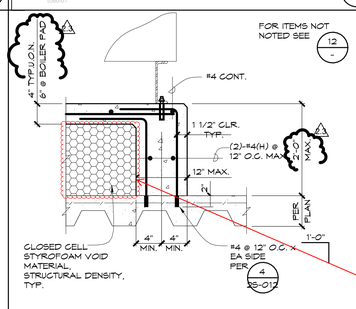


TYP. RAISED EQUIP. PAD OVER VOID FORM AT ROOF

13

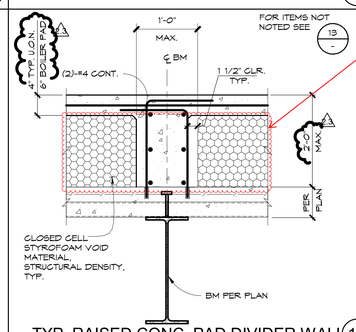
EQUIPMENT ANCHORAGE SCHEDULE						
EQUIP CALLOUT	MAX. OPER. WT. (LBS)	LOCATION	ANCHORAGE (DIA)	DETAIL	CG. HT. (IN)	COMMENTS
AHU	9,800	ROOF	3/4" DIA ADHESIVE ANCHORS @ 48" O.C. 4 @ EA. CORNER	13/-	74"	HILTI HIT-RE 500 V3 W/ 6" EMBED
DOAS	9,150	ROOF	3/4" DIA ADHESIVE ANCHORS @ 48" O.C. 4 @ EA. CORNER	13/-	74"	HILTI HIT-RE 500 V3 W/ 6" EMBED
AC	9,775	ROOF	3/4" DIA ADHESIVE ANCHORS @ 48" O.C. 4 @ EA. CORNER	13/-	74"	HILTI HIT-RE 500 V3 W/ 6" EMBED
BT	1,300	ROOF	1/2" DIA ADHESIVE ANCHORS (1) EA. CORNER, (4) TOTAL	13/-	46"	HILTI HIT-RE 500 V3 W/ 3" EMBED
B	1,100	ROOF	1/2" DIA ADHESIVE ANCHORS (1) EA. CORNER, (4) TOTAL	13/-	46"	HILTI HIT-RE 500 V3 W/ 3" EMBED
EF	700	ROOF	1/2" DIA ADHESIVE ANCHORS (1) EA. CORNER, (4) TOTAL	13/-	40"	HILTI HIT-RE 500 V3 W/ 3" EMBED
SM-EF	2,800	ROOF	3/4" DIA ADHESIVE ANCHORS @ 24" O.C. 8 @ EA. CORNER	13/-	40"	HILTI HIT-RE 500 V3 W/ 3" EMBED
VRV	2,400	ROOF	1/2" DIA ADHESIVE ANCHORS @ 48" O.C. 4 @ EA. CORNER	13/-	75"	HILTI HIT-RE 500 V3 W/ 3" EMBED
EMERGENCY GENERATOR	77,000	FOUNDATION	3/4" DIA ADHESIVE ANCHORS @ 48" O.C. 4 @ EA. CORNER	15/-	40"	HILTI HIT-RE 500 V3 W/ 3" EMBED
SUSPENDED EQUIP.	250	VARIES	SEE DETAIL	16/-	N/A	TYPICAL FOR ALL FAN COILS AND OTHER SUSPENDED EQUIPMENT
KITCHEN FUME HOOD	250	L1	SEE DETAIL	16/-	N/A	VERIFY LOCATION WITH FOOD SERVICE PLANS
WH	1,100	FOUNDATION	1/2" DIA ADHESIVE ANCHORS (1) EA. CORNER, (4) TOTAL	11/-	38"	HILTI HIT-RE 500 V3 W/ 3" EMBED
ST	8,250	FOUNDATION	1/2" DIA ADHESIVE ANCHORS (1) EA. CORNER, (4) TOTAL	11/-	40"	HILTI HIT-RE 500 V3 W/ 3" EMBED
VAC	2,600	FOUNDATION	1/2" DIA ADHESIVE ANCHORS (1) EA. CORNER, (4) TOTAL	11/-	55"	HILTI HIT-RE 500 V3 W/ 3" EMBED
AC	1,600	FOUNDATION	1/2" DIA ADHESIVE ANCHORS (1) EA. CORNER, (4) TOTAL	11/-	30""	HILTI HIT-RE 500 V3 W/ 3" EMBED
WS	1,000	FOUNDATION	1/2" DIA ADHESIVE ANCHORS (1) EA. CORNER, (4) TOTAL	11/-	38"	HILTI HIT-RE 500 V3 W/ 3" EMBED
GI	1,600	FOUNDATION	1/2" DIA ADHESIVE ANCHORS (1) EA. CORNER, (4) TOTAL	11/-	23"	HILTI HIT-RE 500 V3 W/ 3" EMBED
DI	5,500	FOUNDATION	1/2" DIA ADHESIVE ANCHORS (1) EA. CORNER, (4) TOTAL	11/-	61"	HILTI HIT-RE 500 V3 W/ 3" EMBED

NOTES:
1. MINIMUM ANCHORAGE SHOWN. ANCHOR SIZE AND LAYOUT SHALL BE VERIFIED AND COORDINATED W/ MANUFACTURER REQUIREMENTS.
2. SEE ARCH. AND MEP DRAWINGS FOR COMPLETE EQUIPMENT LIST, LAYOUT AND LOCATIONS.
3. ADHESIVE ANCHORS SHALL BE INSTALLED PER ICC ESR-3814, OR PER INSTALLATION GUIDELINES OF APPROVED EQUAL MANUFACTURER.
4. EXPANSION ANCHORS SHALL BE INSTALLED PER ICC ESR-1917, OR PER INSTALLATION GUIDELINES OF APPROVED EQUAL MANUFACTURER.

MECHANICAL EQUIPMENT - ANCHORAGE SCHEDULE

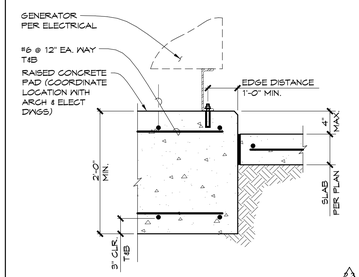
3

RFI 2-00003 Confirmation of Fill Product Data
Per Collborate Detail 13 & 14 on 2S-554



TYP. RAISED CONC. PAD DIVIDER WALL

14



GENERATOR EQUIPMENT PAD

15

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM #2.2
2.3	11.20.17	ASI 2.1/IFC

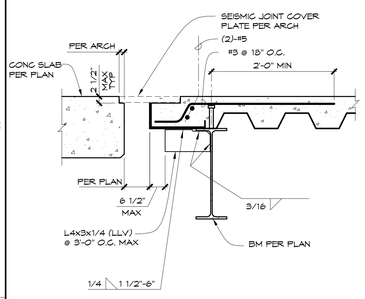
CITY SUBMITTAL SET
08.08.17

Sheet Title
STRUCTURAL DETAILS

Sheet No.
2S-555

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/17/2017 11:43:16 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT, UNLESS OTHERWISE NOTED.



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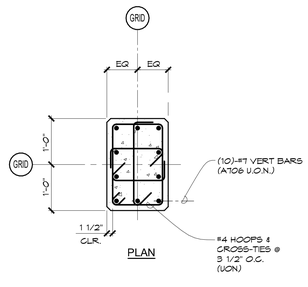


PLAN

NOTES:

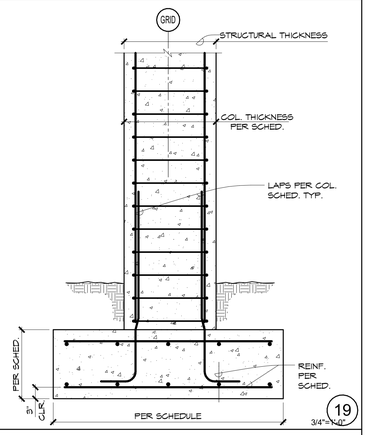
1. LONGITUDINAL REINFORCING IN COLUMNS SHALL BE ASTM A706.
2. FOUNDATION DOWELS SHALL MATCH COLUMN VERTICAL REINF. U.O.N. DOWELS SHALL EXTEND INTO FOUNDATION AND TERMINATE WITH A STANDARD HOOK, JUST ABOVE THE BOTTOM REINFORCING.
3. WHERE LONGITUDINAL COLUMN BARS ARE SHOWN CONTINOUS, THEY MAY BE SPLICED AT THE CONTRACTOR'S OPTION. SPLICES SHALL CONFORM TO NOTES 4 THROUGH 7.
4. LAP SPLICES OF LONGITUDINAL REINF. (INCLUDING FOUNDATION DOWELS) SHALL BE:

BAR SIZE	SPLICE LENGTH
#7	3'-6"
#8	4'-0"
#9	4'-6"
#10	5'-0"
#11	6'-0"

5. LAP SPLICES BETWEEN LONGITUDINAL BARS OF DIFFERENT SIZES SHALL BE THE LENGTH REQUIRED FOR THE LARGER BAR.
6. TYPE 2 MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES AT LONGITUDINAL BARS.
7. VERTICAL REINF SHALL BE SPLICED AT MID-HEIGHT OF COLUMNS ONLY
8. CONDUITS SHALL NOT BE PERMITTED.

18

3/4"=1'-0"



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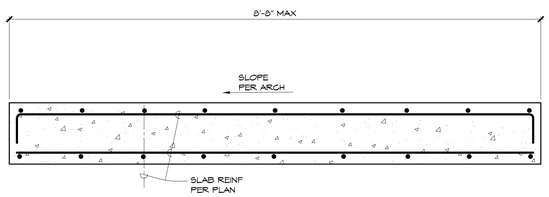
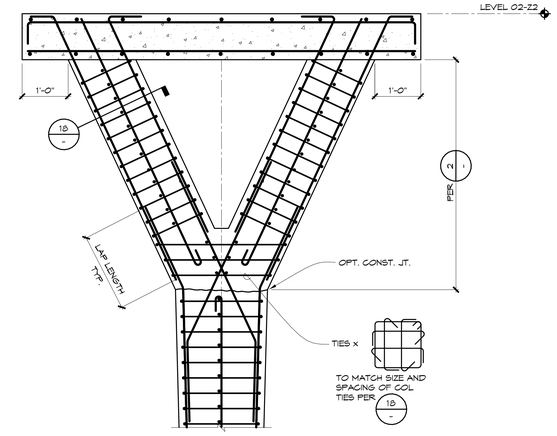
3/4"=1'-0"



TYPICAL SLAB SECTION

20



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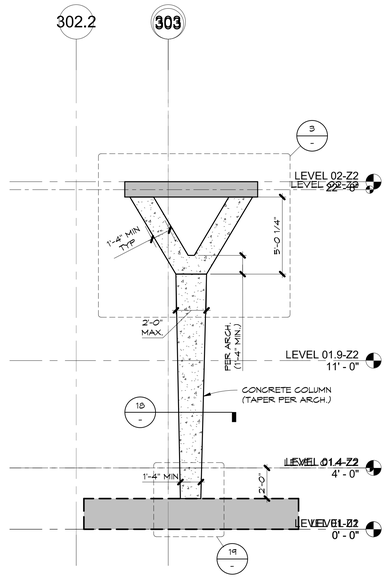
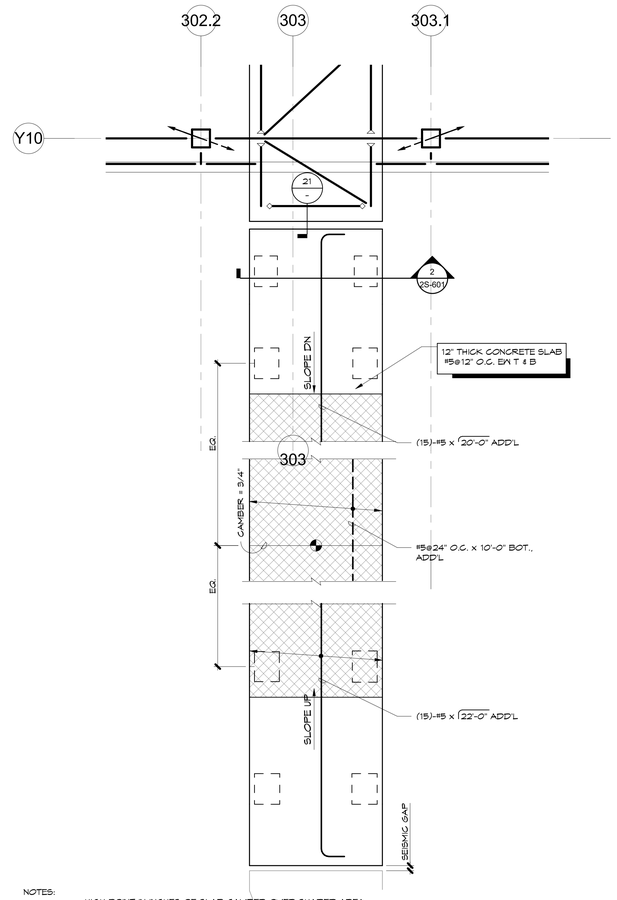


PEDESTRIAN BRIDGE @ ATRIUM - SECTION 2

SCALE: 1/4" = 1'-0"

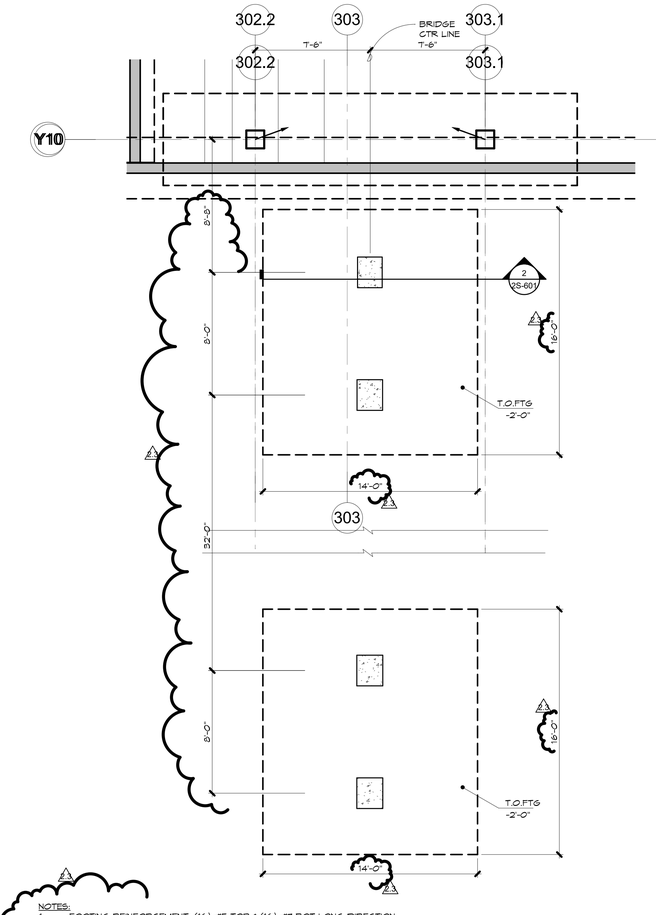


NOTES:

HIGH POINT IN INCHES OF SLAB CAMBER OVER SHADED AREA. CAMBER SHALL BE CENTERED BETWEEN SUPPORTS. MAINTAIN SLAB OR BEAM THICKNESS THROUGHOUT THE CAMBERED AREA AND SUBMIT DETAILS OF CONCRETE PROFILE FOR REVIEW WHERE VARIATION FROM CONCRETE OUTLINE SHOWN ON THE DRAWING OCCURS.

PEDESTRIAN BRIDGE @ ATRIUM - ENLARGED FRAMING PLAN 12

SCALE: 1/4" = 1'-0"



NOTES:
1. FOOTING REINFORCEMENT: (16) -#5 TOP & (16) -#7 BOT LONG DIRECTION
   (16) - #5 TOP & (16) - #7 BOT SHORT DIRECTION
2. FOR REMAINDER OF BUILDING FOUNDATION INFO SEE 2S-113

PEDESTRIAN BRIDGE @ ATRIUM - ENLARGED FOUNDATION PLAN 4

SCALE: 1/4" = 1'-0"

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	07.10.17	STRUCT. STEEL BID SET
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

BRIDGE FOUNDATION & FRAMING PLANS

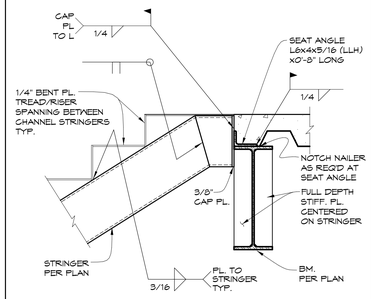
Sheet No.

2S-601

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

8/29/2017 11:33:02 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

NOT USED 21



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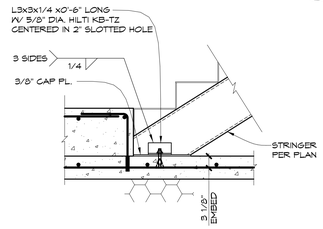
FOR ITEMS NOT NOTED SEE 17



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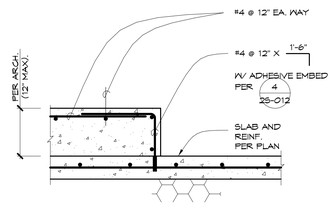

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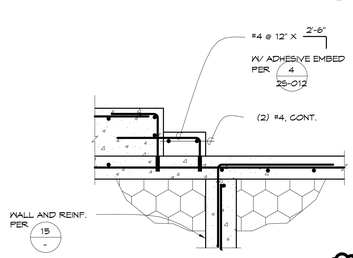

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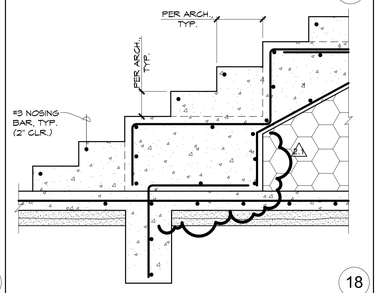
FOR ITEMS NOT NOTED SEE 19



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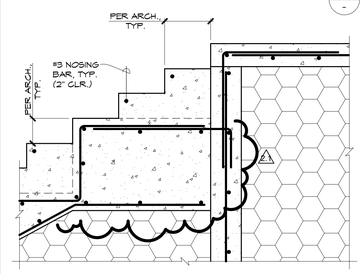

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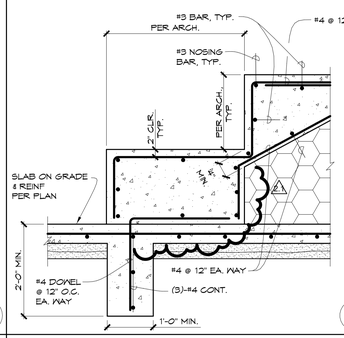

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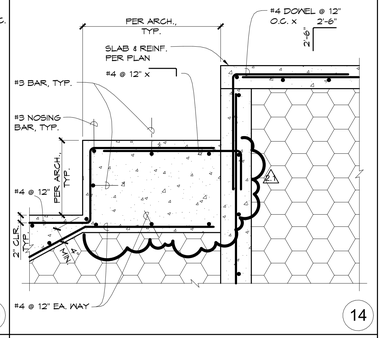

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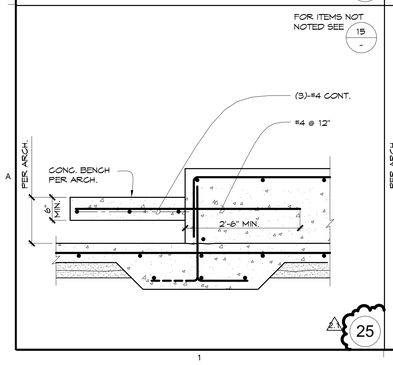

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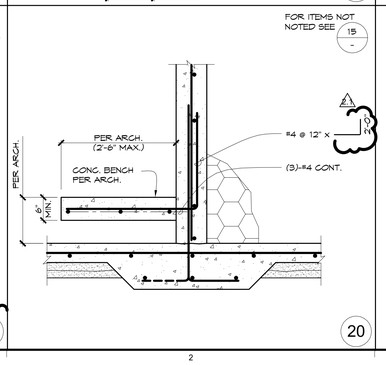

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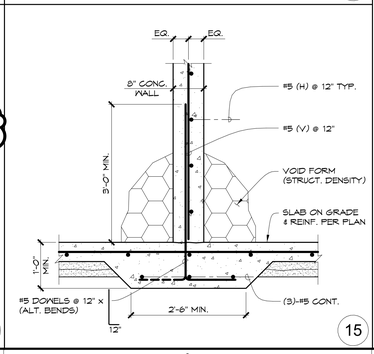

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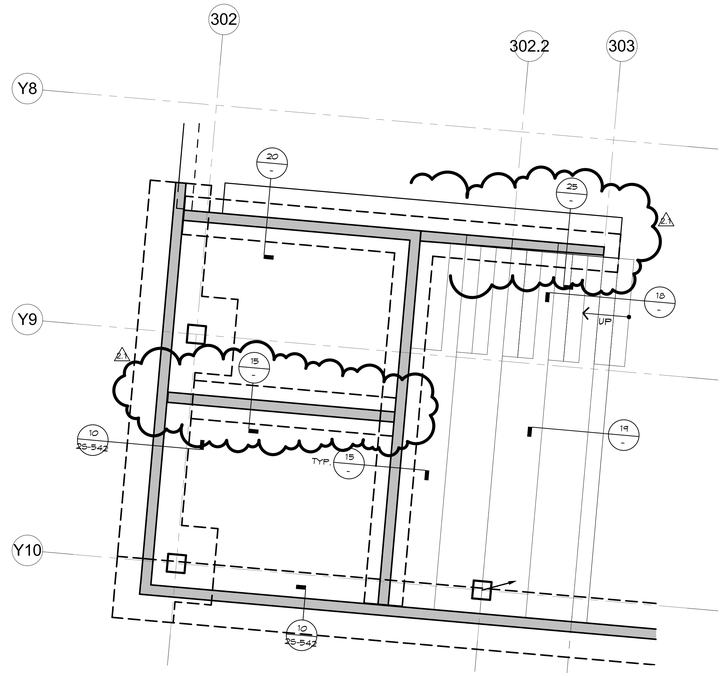
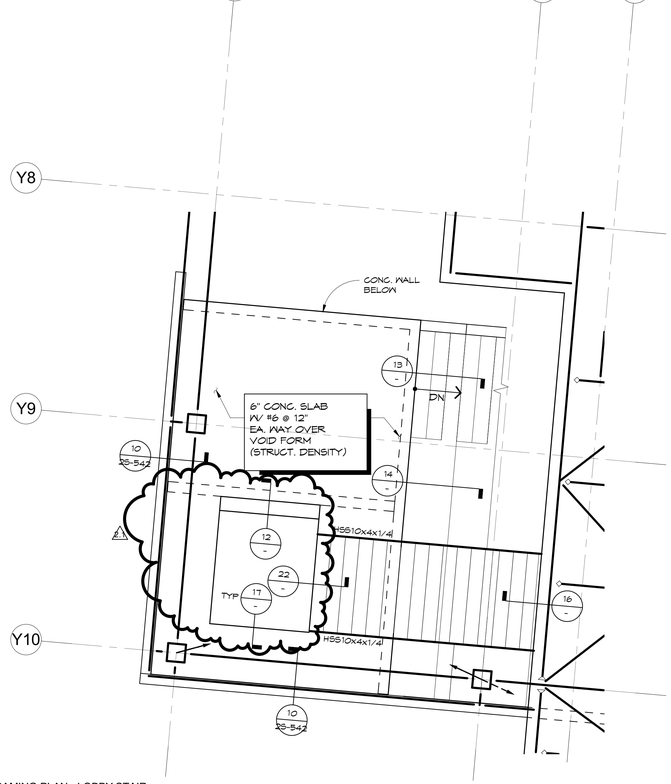


2 ENLARGED FOUNDATION PLAN - LOBBY STAIR
1/4" = 1'-0"

2



5 ENLARGED L2 FRAMING PLAN - LOBBY STAIR
1/4" = 1'-0"

5

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title
LOBBY STAIR FRAMING PLAN & DETAILS

Sheet No.
2S-602

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

11/17/2017 11:45:10 AM
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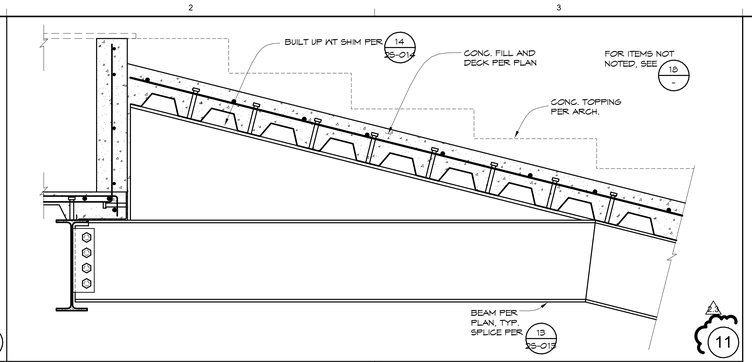

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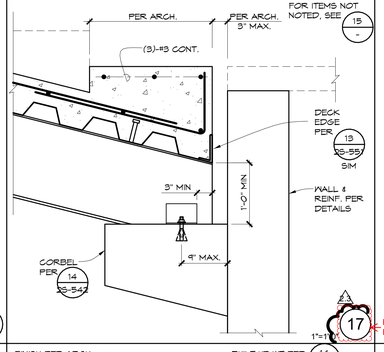

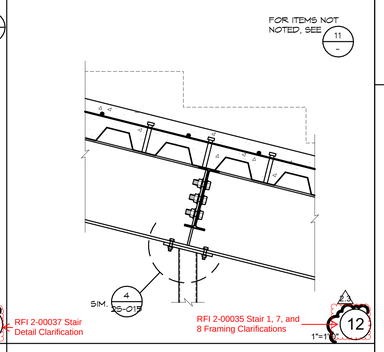

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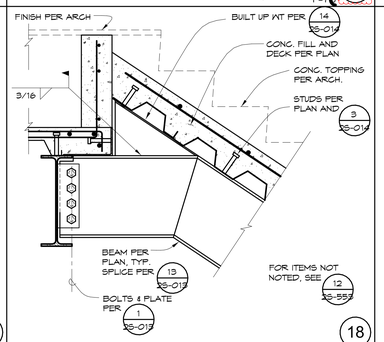

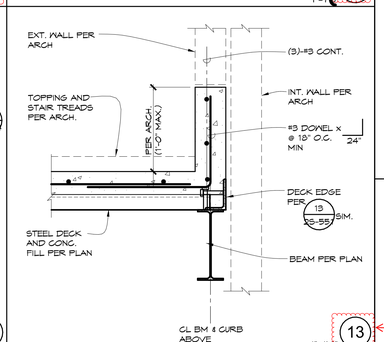

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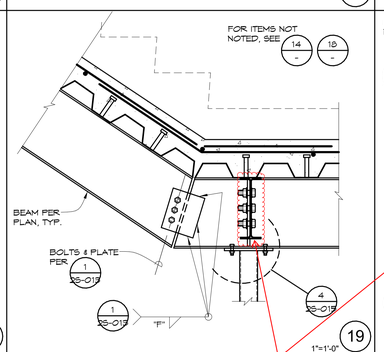

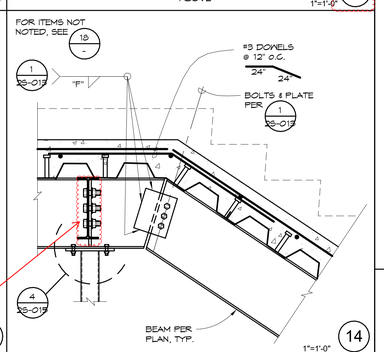

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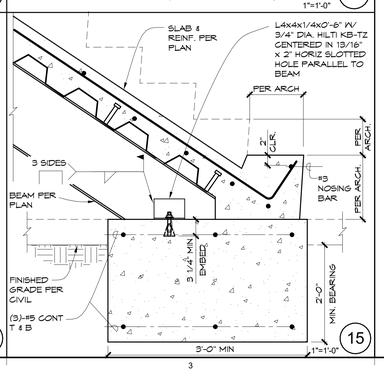
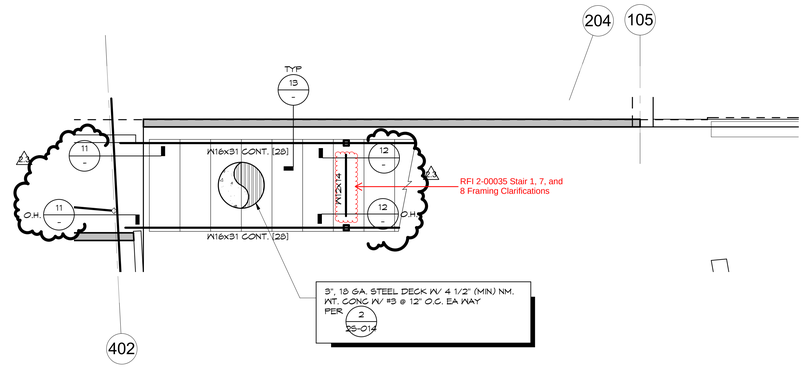
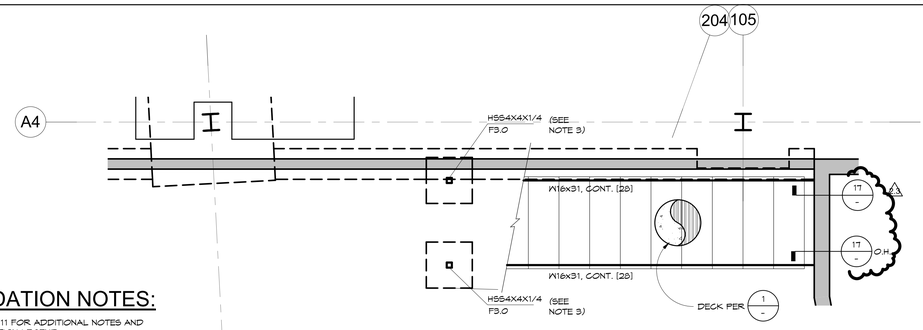




ENLARGED FRAMING PLAN - STAIR 8 1
SCALE: 1/4" = 1'-0"

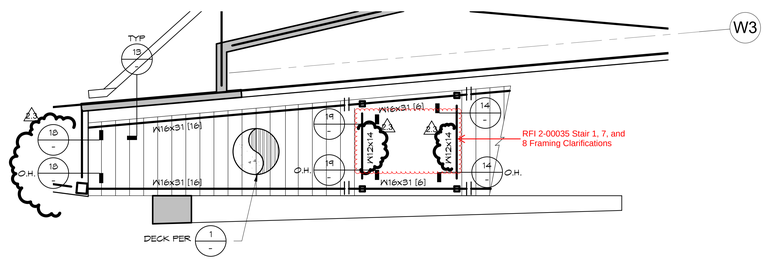


FOUNDATION NOTES:

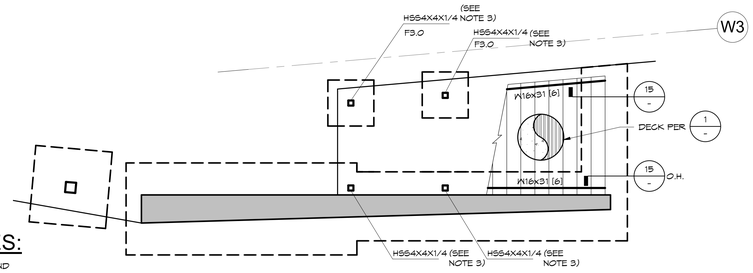
1. SEE 2S-111 FOR ADDITIONAL NOTES AND FOUNDATION LEGEND
2. TYPICAL TOP OF FOOTING ELEVATION IS 2'-0" BELOW FINISHED GRADE
3. BASEPLATES @ HSS COLUMNS SHALL BE 1'-0"X1'-0"X3/4" PER 10 2S-01 SIM

RFI 2-00037 Stair Detail Clarification

ENLARGED FOUNDATION PLAN - STAIR 8 2
SCALE: 1/4" = 1'-0"



ENLARGED FRAMING PLAN - STAIR 7 3
SCALE: 1/4" = 1'-0"



FOUNDATION NOTES:

1. SEE 2S-111 FOR ADDITIONAL NOTES AND FOUNDATION LEGEND
2. TYPICAL TOP OF FOOTING ELEVATION IS 2'-0" BELOW FINISHED GRADE
3. BASEPLATES @ HSS COLUMNS SHALL BE 1'-0"X1'-0"X3/4" PER 10 2S-01 SIM

RFI 2-00089 Stair #7 Dimensions - 2018.01.03

ENLARGED FOUNDATION PLAN - STAIR 7 5
SCALE: 1/4" = 1'-0"

GENE THEORY - CP-2
VOLUME 1

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
STAIR FRAMING PLANS & DETAILS

Sheet No.
2S-603

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

CONTROL DEVICE LEGEND

ZONE / X / XXXX	CONTROL ZONE TAG POWER CONTROL METHOD (DIMMER/RELAY/CONSTANT) CONTROL LEGS REQUIRED (DMX/0-10V/3-WIRE)
$	LOCAL SWITCH
	CONTROL STATION
	CONTROL RECEPTACLE STATION
DEVICE ID / TYPE	CONTROL DEVICE TAG
DC DIM / TRANS	LED DIMMING CONTROLLER TO TRANSFORMER/POWER SUPPLY. REQUIRES 0-10V CONTROL SIGNAL.
CLD / WATTAGE LIMIT	TRACK CURRENT LIMITER
xx	KEYNOTE
1	REVISION

LIGHTING SYMBOL LEGEND

RECESSED DOWNLIGHT
RECESSED ADJUSTABLE DOWNLIGHT
RECESSED WALLWASHER (OPEN SIDE LIT)
RECESSED SHOWER LIGHT
PENDANT OR CLOSE-CEILING MOUNTED FIXTURE
SURFACE-MOUNTED ACCENT LIGHT
TRACK-MOUNTED ACCENT LIGHT
WALL-MOUNTED FIXTURE
RECESSED FLUORESCENT 2X2, 2X4, ETC.
SURFACE-MOUNTED FLUORESCENT 2X2, 2X4, ETC.
PENDANT-MOUNTED LINEAR FLUORESCENT
FLUORESCENT STRIPLIGHT
STEPLIGHT
INGRADE UPLIGHT
FLOODLIGHT
BOLLARD
POLE LIGHT
LOW-VOLTAGE STRIPLIGHT
COLD-CATHODE STRIPLIGHT
NEON LAMP
LINEAR FIBER-OPTIC SYSTEM
LINEAR LED SYSTEM
MULTI-HEAD RECESSED TROUGH FIXTURE

DRAWING INDEX

LIGHTING

11.20.17- ASI 2.1	10.03.17- ADDENDUM 2.2	08.29.17- ADDENDUM #2.1	08.08.17- CITY SUBMITTAL SET		
●	●	●	●	2LT-0.00	LIGHTING SHEET INDEX
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			●	2LT-0.02	GENERAL INTERIOR LIGHTING REQUIREMENTS
●	●	●	●	2LT-0.03	LIGHTING FIXTURE SCHEDULE
●	●		●	2LT-0.04	LIGHTING FIXTURE SCHEDULE
			●	2LT-0.11	LIGHTING CONTROL REQUIREMENTS
●	●	●	●	2LT-0.12	LIGHTING CONTROL SCHEDULE
	●		●	2LT-100	OVERALL SITE LIGHTING PLAN
			●	2LT-112	LEVEL 01 LIGHTING PLAN - AREA A
●	●	●	●	2LT-113	LEVEL 01 LIGHTING PLAN - AREA B
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●		●	●	2LT-122	LEVEL 02 LIGHTING PLAN - AREA B
			●	2LT-123	LEVEL 02 LIGHTING RCP - AREA B
			●	2LT-132	LEVEL 03 LIGHTING PLAN - AREA B
			●	2LT-133	LEVEL 03 LIGHTING RCP - AREA B
●			●	2LT-142	LEVEL 04 LIGHTING PLAN - AREA B
●			●	2LT-143	LEVEL 04 LIGHTING RCP - AREA B

FIXTURE NAMING LEGEND

D 1 N A

A-ADJUSTABLE
D- DOWNLIGHT
F- FLUORESCENT
L- LINEAR LED
P- PENDANT
S- SURFACE
T- TRACK
U- IN-GRADE UPLIGHT
V- LOW VOLTAGE STRIP
W- SCONCE
X- FIBER
Z- MISC/SPECIALTY
DP- DECORATIVE PENDANT
DW- DECORATIVE WALL MOUNT
SL- STEP LIGHTS
TH- THEATRICAL FIXTURES
AA- EXTERIOR ACCENT LIGHT
BB- EXTERIOR BOLLARD
PP- POLE
UU- EXTERIOR IN-GRADE UPLIGHT

F- FLOOD 36DEG-59DEG
N- NARROW SPOT 20DEG - 35DEG
S- SPOT 10DEG-19DEG
W- WIDE FLOOD 60DEG-120DEG
V- VERY NARROW SPOT 2DEG-9DEG

A-D DIFFERENT FINISH- ETC

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THE RUZIKA COMPANY WILL NOT BE HELD RESPONSIBLE FOR THE INABILITY OF CONTRACTORS OR BUILDERS TO EXECUTE THE DESIGN PLANS.

ALL ELECTRICAL INFORMATION AND LOCAL ENERGY CODE COMPLIANCE FORMS TO BE PROVIDED BY A LICENSED ELECTRICAL ENGINEER OR ELECTRICAL CONTRACTOR.

ALL EQUIPMENT ATTACHMENT DETAILS AND STRUCTURAL LOAD CALCULATIONS MUST BE PROVIDED BY A LICENSED STRUCTURAL ENGINEER.

FOR LIGHTING DESIGN INFORMATION ONLY

GENE THEORY -
CP-2
VOLUME 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM 2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM 2.2
10.03.17

Sheet Title

LIGHTING
SHEET INDEX

Sheet No.

2LT-0.00

GENERAL EXTERIOR LIGHTING REQUIREMENTS

1. NOTHING IN THESE SPECIFICATIONS OR IN THE ACCOMPANYING DRAWINGS SHALL BE CONSTRUED AS AUTHORITY OR PERMISSION TO PERFORM WORK CONTRARY TO THE CURRENT PROVISIONS OF THE CODES OR REGULATIONS GOVERNING THE WORK OR TO OTHERWISE VIOLATE LEGAL REQUIREMENTS. THE CONTRACTOR SHALL IMMEDIATELY DRAW ANY SUCH CONFLICTS TO THE ATTENTION OF THE ARCHITECT. REQUIREMENTS SHOWN IN THE DRAWINGS OR SPECIFICATIONS SHALL GOVERN WHERE THEY EXCEED THOSE OF THE CODES OR REGULATIONS.
2. LIGHTING FIXTURES
   a. LUMINAIRES SHALL BE PROVIDED AS DESCRIBED IN THE LIGHTING FIXTURE SCHEDULE. THE MANUFACTURER'S CATALOG NUMBERS OR DESCRIPTIONS INDICATE FIXTURE QUALITY, TYPE AND STYLE, BUT MAY NOT CONVEY ALL REQUIREMENTS. PROVIDE FIXTURES WITH ANY DETAILS NOTED IN FIXTURE DESCRIPTIONS OR ELSEWHERE ON PROJECT DRAWINGS. WHERE A SCHEDULED PART NUMBER APPEARS TO CONFLICT WITH THOSE NOTES, SUBMIT AN RFI TO RESOLVE THE CONFLICT.
   b. PRIOR TO ORDERING FIXTURES, THE CONTRACTOR SHALL VERIFY VOLTAGES AND ALL MOUNTING CONDITIONS INCLUDING LANDSCAPE AND HARDSCAPE CONDITIONS AND INFORM THE ARCHITECT AND LIGHTING DESIGN CONSULTANT OF ANY CONFLICTS.
   c. THE CONTRACTOR SHALL PROVIDE LIGHTING FIXTURES COMPLETE WITH FITTINGS, HARDWARE, MOUNTING STAKES, CONCRETE PADS, TRANSFORMERS, CONNECTORS, OR OTHER MISCELLANEOUS COMPONENTS NECESSARY FOR A COMPLETE AND WORKMANLIKE INSTALLATION COMPLIANT WITH THE APPLICABLE CODES.
   d. ANY LIGHTING FIXTURES IN ROCKWORK SHALL BE PROVIDED IN APPROVED FIRE-RATED ENCLOSURES. ALL FIXTURES IN CONDITIONS REQUIRING IC, AIRTIGHT, OR CHICAGO PLENUM HOUSINGS SHALL BE SUPPLIED WITH SUCH HOUSINGS.
3. LAMPS
   a. IF SPECIFIED LAMPS ARE SUBSTITUTED, THE CONTRACTOR SHALL PROVIDE SAMPLES OF THE PROPOSED SUBSTITUTION FOR EVALUATION BY THE LIGHTING DESIGN CONSULTANT. LAMPS SHALL NOT BE ORDERED UNTIL APPROVED.
   b. IF APPLICABLE FOR NON-LED LAMPS, FURNISH 5% SPARES FOR ALL SCHEDULED LAMP TYPES. SPARE LAMPS SHALL BE AVAILABLE AND ON-SITE AT THE TIME OF SCHEDULED FOCUS AIMING AND ADJUSTMENT WORK SESSIONS, AND SHALL BE TURNED OVER TO THE OWNER'S OPERATIONS STAFF AS MAINTENANCE STOCK AT SUBSTANTIAL COMPLETION.
4. OPTICAL ACCESSORIES
   a. THE CONTRACTOR SHALL PROVIDE ALL SCHEDULED ACCESSORIES PROPERLY SIZED FOR THE LUMINAIRE AND SECURELY ATTACHED. WHERE THE LUMINAIRE MANUFACTURER OFFERS ACCESSORIES MEETING THE PERFORMANCE OR BASIS-OF-DESIGN CHARACTERISTICS LISTED BELOW, THE CONTRACTOR MAY SUBMIT AND PROVIDE THEM FROM THAT SOURCE. WHEN THE LUMINAIRE MANUFACTURER'S OFFERING IS NOT EQUIVALENT, THE CONTRACTOR SHALL PROVIDE AN ACCESSORY MEETING THOSE REQUIREMENTS FROM AN APPROVED SOURCE, CUT TO THE PROPER SIZE FOR THAT FIXTURE. THE LIGHTING DESIGN CONSULTANT SHALL BE THE FINAL JUDGE OF ACCESSORY EQUIVALENCE.
   b. UNLESS OTHERWISE NOTED, ACCESSORIES SHALL BE INSTALLED PRIOR TO THE FOCUS AIMING AND ADJUSTMENT SESSIONS.
5. BALLASTS, DRIVERS, TRANSFORMERS
   a. WHERE BALLASTS, DRIVERS, OR TRANSFORMERS ARE MOUNTED REMOTE FROM THE FIXTURE HOUSING, PROVIDE A SUITABLE ENCLOSURE WITHIN THE RECOMMENDED DISTANCE.
   b. REMOTE LOCATIONS FOR BALLASTS, DRIVERS, AND TRANSFORMERS ARE TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD TO SUIT FIELD CONDITIONS.
6. CONDUITS, CIRCUITS, AND WIRING
   a. ALL CONDUITS AND WIRING SHALL BE IDENTIFIED WITH NUMBERS AND TAGGED. ALL CIRCUITS SHALL BE IDENTIFIED IN ELECTRICAL PANELS.
   b. CONDUIT RUNS, EXACT LOCATIONS, AND ROUTING TO BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. ALL CONDUIT RUNS MUST BE CONCEALED FROM PUBLIC VIEW AS PHYSICALLY POSSIBLE.
7. LIGHTING CONTROL SYSTEM
   a. All lighting control equipment must be Title 24 compliant and must provide the necessary astronomical time clock controls, multi-level lighting controls, demand response controls, motion detector devices, and shutoff controls.
   b. Verify that all LED lighting sources have power supply drivers and control interfaces that are appropriate for the lighting control system.
   c. Coordinate with the control equipment manufacturer regarding any non-standard load wiring. All DMX or 0-10V load types shall also be paired with a switched circuit on a control channel-by-channel basis to provide low-end turn off capabilities.
   d. Provide low voltage wiring per the systems manufacturer's final shop drawings.
   e. Provide the services of a factory-trained and authorized representative of the lighting control system manufacturer to configure, test, commission, AND PROGRAM the lighting control system.
8. SUBMITTALS
   a. SUBMITTALS MUST PROVIDE DESCRIPTIVE DATA FOR ALL LUMINAIRES, LAMPS, LENSES, COLOR FILTERS, FIRE-RATED FIXTURE ENCLOSURES AND OTHER MATERIALS.
   b. SHOP DRAWINGS
      i. FOR LUMINAIRES THAT ARE NOT STANDARD CATALOG ITEMS WITH DATASHEETS PROVIDING SIMILAR DETAILS, SUBMIT MANUFACTURER'S SHOP DRAWINGS INDICATING CUTSHEETS, DIMENSIONS, DETAIL AND APERTURE DIMENSIONS, FINISHES, MATERIALS AND THICKNESSES, LENS OR DIFFUSER TYPES AND THICKNESSES, LAMP HOLDERS, LOCKING MECHANISMS FOR ADJUSTABLE LUMINAIRES, SHIELDING, TRIM, REFLECTOR AND GASKET DETAILS, METHOD OF RE-LAMPING ACCESS, MECHANICAL AND ELECTRICAL CONNECTIONS, AND ALL OTHER INFORMATION REQUIRED TO EVALUATE THE LUMINAIRE.
   c. SAMPLES
      i. IF REQUESTED, THE CONTRACTOR MUST SUBMIT OPERABLE FIXTURE SAMPLES TO THE LIGHTING DESIGN CONSULTANT AND ARCHITECT FOR APPROVAL. THE SAMPLES SHALL BE TAGGED WITH PROJECT NAME AND FIXTURE TYPE, CONFIGURED FOR 120VAC OPERATION, AND FURNISHED WITH PROPERLY WIRED CORD AND PLUG, SPECIFIED LAMP, AND ANY SCHEDULED ACCESSORIES. THE LIGHTING DESIGN CONSULTANT MAY RETAIN THE SAMPLES UNTIL SUBSTANTIAL COMPLETION OF THE PROJECT. ALLOW TWO WEEKS FROM DATE OF RECEIPT FOR THOROUGH EXAMINATION AND REVIEW BY THE ARCHITECT AND LIGHTING DESIGNER.
      ii. SAMPLE FIXTURES MUST BE PROVIDED FOR ALL PROPOSED FIXTURE SUBSTITUTES.
      iii. FIXTURES INSTALLED, AS PART OF THE WORK SHALL BE IDENTICAL TO THE APPROVED SAMPLE. THE SAMPLES THEMSELVES SHALL NOT BE INSTALLED ON THE PROJECT.
      iv. IN THE EVENT THAT THE SUBMITTED SAMPLES ARE DISAPPROVED, THE FIXTURES WILL BE RETURNED TO THE CONTRACTOR TO IMMEDIATELY MAKE A NEW SUBMITTAL OF A FIXTURE OR FIXTURE MEETING THE REQUIREMENTS.
      v. ALL SHIPPING CHARGES (ROUND-TRIP) ARE TO BE PRE-PAID BY THE CONTRACTOR.
9. MOCKUPS
   a. IF REQUESTED, THE CONTRACTOR SHALL PREPARE MOCKUPS ACCORDING TO THE DIRECTION OF THE ARCHITECT, LANDSCAPE ARCHITECT, AND LIGHTING DESIGN CONSULTANT. A MINIMUM OF (2) MOCKUPS ANTICIPATED.
   b. MOCKUPS ARE TO BE PRESERVED AND PROTECTED UNTIL SUBSTANTIAL COMPLETION, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT.
10. LIGHTING FIXTURE PRICING AND SUBSTITUTIONS
   a. THE CONTRACTOR SHALL BASE LIGHTING FIXTURE BIDS ON THE MANUFACTURERS LISTED IN THE FIXTURE SCHEDULE.
   b. BIDS SHALL INCLUDE UNIT PRICING FOR ALL FIXTURES, AND FIXTURES ADDED OR DELETED FROM THE PROJECT SHALL BE ACCOUNTED FOR AT THAT PRICE.
   c. ANY SUBMITTALS FOR COST-REDUCTION OR VALUE-ENGINEERING ALTERNATES SHALL INCLUDE A TABLE LISTING FIXTURE TYPE, SCHEDULED MANUFACTURER AND PART NUMBER, UNIT PRICE FOR THE SCHEDULED PRODUCT, PROPOSED ALTERNATE PRODUCT, AND UNIT PRICING FOR THE PROPOSED ALTERNATE.
   d. ALL REQUIRED UNIT PRICING SHALL BE CONTRACTOR NET, AND SHALL LIST EQUIPMENT PRICES SEPARATE FROM THOSE FOR INSTALLATION OR MISCELLANEOUS ELECTRICAL COSTS.
   e. THE CONTRACTOR SHALL SUBMIT OPERABLE FIXTURE SAMPLES FOR FIXTURE TYPES FOR WHICH A SUBSTITUTE IS PROPOSED, CONCURRENT WITH THE INITIAL SUBMITTAL OF FIXTURE DATA OR SHOP DRAWINGS. THE CONTRACTOR MAY, IN ADVANCE, SUBMIT A LIST OF THOSE PROPOSED ALTERNATES TO THE ARCHITECT AND LIGHTING DESIGN CONSULTANT TO DETERMINE IF THE SAMPLE REQUIREMENT MAY BE WAIVED FOR ANY OF THOSE FIXTURE TYPES.
11. FOCUS AIMING AND ADJUSTMENTS
   a. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, LIFTS, LADDERS AND OTHER MATERIALS REQUIRED TO AIM AND ADJUST LIGHTING FIXTURES ACCORDING TO THE LIGHTING DESIGN CONSULTANT'S INTENT AND UNDER THE CONSULTANT'S DIRECTION. CREWS PROVIDED TO WORK WITH THE CONSULTANT SHALL BE ABLE TO COMMUNICATE EFFECTIVELY IN ENGLISH.
   b. AT MINIMUM, ALLOW A MINIMUM OF 4 MINUTES TO AIM EACH ADJUSTABLE LIGHTING FIXTURE, PLUS ADDITIONAL TIME AS REQUIRED TO RELOCATE LADDERS. ALLOW ADDITIONAL TIME WHERE HIGH-REACH LIFTS ARE REQUIRED, OR WHERE OBSTRUCTIONS INTERFERE WITH ACCESS.
   c. PRIOR TO AIMING AND ADJUSTMENT, THE CONTRACTOR SHALL VERIFY THAT:
      i. ALL FIXTURES ARE INSTALLED AND OPERABLE.
      ii. THE SPECIFIED LAMP HAS BEEN INSTALLED IN EACH FIXTURE, INCLUDING WATTAGE, BEAM SPREAD AND COLOR TEMPERATURE.
      iii. ANY SPECIFIED ACCESSORIES INCLUDING LENSES, LOUVERS, AND COLOR FILTERS HAVE BEEN INSTALLED.
      iv. SPARES, IF APPLICABLE, ARE AVAILABLE ON-SITE FOR EACH LAMP TYPE.
      v. THE CREW IS EQUIPPED WITH ANY NECESSARY TOOLS NECESSARY TO ACCESS, ADJUST AND SECURELY LOCK ALL FIXTURE TYPES.
      vi. ANY PERSONNEL LIFTS TO BE USED ARE OPERABLE AND, IF BATTERY-OPERATED, FULLY CHARGED.
      vii. ANY NECESSARY PROTECTIVE MATERIALS ARE IN PLACE AT FLOOR SURFACES WHERE LADDERS OR LIFTS ARE TO BE USED.
   d. THE CONTRACTOR SHALL CONTACT THE ARCHITECT AND LIGHTING DESIGN CONSULTANT AT LEAST TWO WEEKS IN ADVANCE TO COORDINATE AND SCHEDULE FOCUS AIMING AND ADJUSTMENT WORK SESSIONS. ALL FOCUS AIMING WORK SESSIONS SHALL BE SCHEDULED TO OCCUR AFTER DUSK. THE GENERAL WORK OF THE PROJECT SHALL BE COORDINATED TO SO THAT INCOMPATIBLE WORK IS NOT SCHEDULED DURING THE SESSIONS, AND SO THAT ALL NECESSARY AREAS OF THE PROJECT ARE ACCESSIBLE DURING THE SESSIONS.
12. PAINTING
   a. ALL SURFACE-MOUNTED EXPOSED CONDUIT, BOTH RIGID AND FLEXIBLE, MUST BE PAINTED TO MATCH THE SURFACE TO WHICH IT IS ATTACHED.
   b. ANY SCREWS, FASTENERS OR OTHER HARDWARE, WHICH MUST BE MANIPULATED FOR FIXTURE ADJUSTMENT OR MAINTENANCE, SHALL BE PROTECTED FROM BEING FIXED IN PLACE BY PAINT.
13. LANDSCAPE MAINTENANCE COORDINATION
   a. ALL CONDUIT RUNS, JUNCTION BOXES, MOUNTING DEVICES, AND LIGHTING FIXTURES INSTALLED IN LANDSCAPE PLANTERS MUST BE CAREFULLY INTEGRATED INTO THE PLANTING PLAN. ALL EXPOSED HARDWARE MUST BE PROPERLY PROTECTED FROM THE LANDSCAPE ELEMENTS.
   b. ALL CLIPPINGS, MULCH, BARK COVERINGS, AND OTHER LANDSCAPE GROUND COVER MATERIALS MUST BE REMOVED FROM ALL AREAS ADJACENT TO THE LIGHTING FIXTURES PRIOR TO THE FOCUS AIMING AND ADJUSTMENT WORK SESSIONS. CAREFUL COORDINATION WITH THE LANDSCAPE CONTRACTOR IS REQUIRED BEFORE, DURING, AND AFTER LIGHTING WORK SESSIONS.
   c. ALL LIGHTING FIXTURES MUST BE INSPECTED AFTER INSTALLATION TO DETERMINE IF ADJACENT SPRINKLERS COULD CREATE WATER DAMAGE. IF WATER DAMAGE COULD BE A POSSIBILITY, COORDINATE WITH THE LANDSCAPE CONTRACTOR THE POTENTIAL RELOCATION OF SPRINKLERS OR OTHER IRRIGATION DEVICES.
14. PRIOR TO SUBSTANTIAL COMPLETION, ALL EXPOSED COMPONENTS SHALL BE CLEANED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS TO REMOVE ALL DUST, PAINT, FINGERPRINTS OR OTHER DEBRIS OR RESIDUE FROM ADJACENT WORK.
15. WARRANTY: FURNISH GUARANTEES COVERING ALL WORK IN ACCORDANCE WITH DIVISION 01 AND THE GENERAL REQUIREMENTS OF THE CONTRACTOR.

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LIGHTING DESIGNERS + THEATRE CONSULTANTS

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ALL EQUIPMENT ATTACHMENT DETAILS AND STRUCTURAL LOAD CALCULATIONS MUST BE PROVIDED BY A LICENSED STRUCTURAL ENGINEER.

FOR LIGHTING DESIGN INFORMATION ONLY

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

GENERAL EXTERIOR LIGHTING REQUIREMENTS

Sheet No.

2LT-0.01

7/26/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

GENERAL INTERIOR LIGHTING REQUIREMENTS

1. NOTHING IN THESE SPECIFICATIONS OR IN THE ACCOMPANYING DRAWINGS SHALL BE CONSTRUED AS AUTHORITY OR PERMISSION TO PERFORM WORK CONTRARY TO THE CURRENT PROVISIONS OF THE CODES OR REGULATIONS GOVERNING THE WORK OR TO OTHERWISE VIOLATE LEGAL REQUIREMENTS. THE CONTRACTOR SHALL IMMEDIATELY DRAW ANY SUCH CONFLICTS TO THE ATTENTION OF THE ARCHITECT. REQUIREMENTS SHOWN IN THE DRAWINGS OR SPECIFICATIONS SHALL GOVERN WHERE THEY EXCEED THOSE OF THE CODES OR REGULATIONS.
2. RESPONSIBILITY FOR EMERGENCY LIGHTING, ENERGY CODE COMPLIANCE, AND CIRCUITING TO MEET CODE CONFORMANCE REMAINS WITH THE ARCHITECT AND ELECTRICAL ENGINEER AS REQUIRED BY LAW.
3. LIGHTING FIXTURES:
   - A. LUMINAIRES SHALL BE PROVIDED AS DESCRIBED IN THE LIGHTING FIXTURE SCHEDULE. THE MANUFACTURER'S CATALOG NUMBERS OR DESCRIPTIONS INDICATE FIXTURE QUALITY, TYPE AND STYLE, BUT MAY NOT CONVEY ALL REQUIREMENTS. PROVIDE FIXTURES WITH ANY DETAILS NOTED IN FIXTURE DESCRIPTIONS OR ELSEWHERE ON PROJECT DRAWINGS. WHERE A SCHEDULED PART NUMBER APPEARS TO CONFLICT WITH THOSE NOTES, SUBMIT AN RFI TO RESOLVE THE CONFLICT.
   - B. PRIOR TO ORDERING FIXTURES, THE CONTRACTOR SHALL VERIFY VOLTAGES AND ALL MOUNTING CONDITIONS INCLUDING RECESS DEPTH AND CEILING TYPE AND INFORM THE ARCHITECT AND LIGHTING DESIGN CONSULTANT OF ANY CONFLICTS.
   - C. THE CONTRACTOR SHALL PROVIDE LIGHTING FIXTURES AND TRACK COMPLETE WITH ALL FITTINGS, HARDWARE, HANGERS, BRACKETS, TRANSFORMERS, CONNECTORS, TRIMS, FLANGES, CLAMPS OR OTHER MISCELLANEOUS COMPONENTS NECESSARY FOR A COMPLETE AND WORKMANLIKE INSTALLATION COMPLIANT WITH THE APPLICABLE CODES.
   - D. ANY LIGHTING FIXTURES IN FIRE-RATED CEILINGS OR WALLS SHALL BE PROVIDED IN APPROVED FIRE-RATED ENCLOSURES. ALL FIXTURES IN CONDITIONS REQUIRING IC, AIRTIGHT, OR CHICAGO PLENUM HOUSINGS SHALL BE SUPPLIED WITH SUCH HOUSINGS.
   - E. PENDANT-MOUNTED LUMINAIRES SHALL BE PROVIDED WITH ANY SWIVELS AND RESTRAINTS NECESSARY TO MEET SEISMIC REQUIREMENTS OR TO ACCOMMODATE SLOPED CEILING CONDITIONS. FIXTURES SHALL BE WEIGHTED AS NECESSARY TO HANG IN A LEVEL, BALANCED STATE.
   - F. IN ORDER TO MAINTAIN PROJECT ENERGY CODE, LEED, OR SIMILAR COMPLIANCE, WHERE THE FIXTURE SCHEDULE INDICATES "DERATED HOUSING" OR "WATTAGE RESTRICTION LABEL", THAT FIXTURE TYPE SHALL BE PROVIDED WITH A FACTORY-INSTALLED, PRE-PRINTED LABEL INDICATING THAT MAXIMUM WATTAGE AND WITH ANY OTHER PROVISIONS REQUIRED BY THE APPLICABLE JURISDICTION.
   - G. ALL FIXTURES SHALL HAVE APPROPRIATE UL LABEL AND CONFORM TO TITLE 24, IF REQUIRED, FOR PERFORMANCE, SWITCHING, AND WIRING.
4. LAMPS:
   - A. UNLESS OTHERWISE NOTED, PROVIDE LAMPS MANUFACTURED BY SYLVANIA, PHILIPS OR GENERAL ELECTRIC. PROVIDE LED RETROFIT LAMPS MANUFACTURED BY SORAA, USHIO, PHILIPS, OR LSG. WHERE LAMPS BY ANOTHER MANUFACTURER ARE PROPOSED AS SUBSTITUTES, THE CONTRACTOR SHALL LIST UNIT PRICES FOR THE SCHEDULED LAMP AND FOR THE PROPOSED SUBSTITUTE.
   - B. FURNISH 5% SPARES FOR ALL SCHEDULED LAMP TYPES. SPARE LAMPS SHALL BE AVAILABLE AND ON-SITE AT THE TIME OF SCHEDULED FOCUS AIMING AND ADJUSTMENT SESSIONS, AND SHALL BE TURNED OVER TO THE OWNER'S OPERATIONS STAFF AS MAINTENANCE STOCK AT SUBSTANTIAL COMPLETION.
   - C. PRIOR TO FOCUS AIMING AND ADJUSTMENT, INCANDESCENT OR HALOGEN LAMPS SHALL NOT BE OPERATED AS CONSTRUCTION WORK LIGHT AND SHALL ONLY BE OPERATED AS NECESSARY FOR TESTING OR PUNCH LIST INSPECTIONS.
5. OPTICAL ACCESSORIES:
   - A. THE CONTRACTOR SHALL PROVIDE ALL SCHEDULED ACCESSORIES PROPERLY SIZED FOR THE LUMINAIRE AND SECURELY ATTACHED. UNLESS OTHERWISE NOTED, ACCESSORIES SHALL BE INSTALLED PRIOR TO THE FOCUS AIMING AND ADJUSTMENT SESSIONS.
   - B. BEAM-SHAPING LENSES SHALL MEET THE BASIS-OF-DESIGN SPECIFICATIONS LISTED BELOW OR SHALL BE AN APPROVED LENS BY THE LUMINAIRE MANUFACTURER.
     1) FROSTED: 1/8" OR 3/16", SANDBLASTED ONE SIDE TO 70% TRANSMISSION.
     2) UNIFORMITY: 1/8" WITH STIPPLED PATTERN, EQUIVALENT TO "SOLITE" AS MANUFACTURED BY ABRISA.
     3) LINEAR SPREAD: 5/32" WITH PRISMATIC RIDGES ONE SIDE, EQUIVALENT TO "SKYTEX" AS MANUFACTURED BY ABRISA.
     4) OVERALL SPREAD: 5/32" OR 3/16" WITH UNIFORM PRISMS ONE SIDE, EQUIVALENT TO "INDUSTREX" AS MANUFACTURED BY ABRISA.
   - C. HEX-CELL OR CUBE-CELL LOUVERS: MATTE-BLACK EXPANDED ALUMINUM MESH INSERT DESIGNED TO REDUCE GLARE CAUSED BY DIRECT VIEW OF THE LIGHT SOURCE. 1/8" DEEP WITH 1/8" OPENINGS FOR MR16, PAR20 OR SMALLER LAMPS; 3/8" DEEP WITH 3/8" OPENINGS FOR PAR30, PAR38 OR LUMINAIRES WITH SIMILAR LENS SIZE; OTHER SIZES ACCORDING TO APPLICATION.
   - D. FILTERS SHALL MEET THE BASIS-OF-DESIGN SPECIFICATIONS LISTED BELOW OR SHALL BE THE PRODUCT SCHEDULED ON THE PROJECT DRAWINGS.
     1) DICHROIC COLOR FILTERS: MINIMUM 3MM BOROFLOAT GLASS WITH VACUUM-DEPOSITED METAL FILMS ON ONE SIDE, SUITABLE FOR OPERATING TEMPERATURES UP TO 400°F. THE RANGE OF AVAILABLE HUES SHALL BE EQUIVALENT TO THE DICHROIC FILTER OFFERING OF LEE FILTERS, ROSCO LABORATORIES OR APOLLO DESIGN TECHNOLOGY.
6. DIMMING, BALLASTS, DRIVERS AND TRANSFORMERS:
   - A. UNLESS NOTED OTHERWISE, DIMMING BALLASTS SHALL BE PROVIDED IN TWO-WIRE, 5% MINIMUM CONFIGURATIONS COMPATIBLE WITH PHASE SENSITIVE DIMMERS, STANDARD SCR DIMMERS, LUTRON TU-WIRE, ADVANCE MARK X OR APPROVED EQUAL.
   - B. THE ELECTRICAL CONTRACTOR AND LIGHTING SYSTEMS INTEGRATOR SHALL REVIEW THE ELECTRICAL COMPONENTS FOR ALL LUMINAIRES SHOWN CONNECTED TO DIMMERS AND PROVIDE ANY NECESSARY DIMMING MODULES, COMPONENTS AND/OR EXTRA CONDUCTORS NECESSARY FOR PROPER DIMMING OPERATION.
   - C. WHERE BALLASTS, DRIVERS OR TRANSFORMERS ARE MOUNTED REMOTE FROM THE FIXTURE HOUSING, PROVIDE A SUITABLE ENCLOSURE WITHIN THE RECOMMENDED DISTANCE, WITH NEOPRENE PADS TO ISOLATE VIBRATION NOISE FOR MAGNETIC TRANSFORMERS OR BALLASTS.
7. SUBMITTALS
   - A. CONTRACTOR TO PROVIDE A COMPLETE PACKAGE OF FIXTURE SUBMITTALS OF ALL LIGHTING PRODUCTS INTENDED TO BE FURNISHED FOR APPROVAL BY LIGHTING DESIGN CONSULTANT AND OWNER. SUBMITTALS ARE TO BE PROVIDED PRIOR TO ORDERING OR PURCHASE OF FIXTURES. SHOULD THE CONTRACTOR ANTICIPATE THAT THE DELIVERY SCHEDULE OF ANY SPECIFIED PRODUCT MIGHT ADVERSELY IMPACT THE CONSTRUCTION SCHEDULE, IT SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AT THIS TIME.
   - B. SHOP DRAWINGS
     1) FOR LUMINAIRES THAT ARE NOT STANDARD CATALOG ITEMS WITH DATASHEETS PROVIDING SIMILAR DETAILS, SUBMIT MANUFACTURER'S SHOP DRAWINGS INDICATING OVERALL DIMENSIONS, DETAIL AND APERTURE DIMENSIONS, FINISHES, MATERIALS AND THICKNESSES, LENS OR DIFFUSER TYPES AND THICKNESSES, LAMP HOLDERS, LOCKING MECHANISMS FOR ADJUSTABLE LUMINAIRES, SHIELDING, TRIM, REFLECTOR AND GASKET DETAILS, METHOD OF RE-LAMPING ACCESS, MECHANICAL AND ELECTRICAL CONNECTIONS, AND ALL OTHER INFORMATION REQUIRED TO EVALUATE THE LUMINAIRE.
   - C. ALTERNATE PRODUCTS OTHER THAN THOSE SPECIFIED BY NAME AND MODEL NUMBER WILL NOT BE CONSIDERED WITHOUT PRIOR WRITTEN CONSENT FROM THE LIGHTING DESIGN CONSULTANT.
   - D. SAMPLES
     1) WHERE SUBSTITUTION IS PROPOSED FOR A FAMILY OF FIXTURES SHARING A COMMON PLATFORM AND WHERE MULTIPLE FIXTURE TYPES CAN BE ACCURATELY REPRESENTED BY SWAPPING TRIMS, LAMPS OR ACCESSORIES WITHOUT THE USE OF TOOLS, A SINGLE FIXTURE SAMPLE MAY BE SUBMITTED ALONG WITH ALL OF THE RELEVANT TRIMS, LAMPS AND ACCESSORIES, CLEARLY LABELED, WITH ANY NECESSARY ASSEMBLY INSTRUCTIONS AND WITH A TABLE INDICATING WHICH ACCESSORIES ARE TO BE USED FOR EACH FIXTURE TYPE.
     2) FIXTURES INSTALLED AS PART OF THE WORK SHALL BE IDENTICAL TO THE APPROVED SAMPLE. THE SAMPLES THEMSELVES SHALL NOT BE INSTALLED ON THE PROJECT.
     3) IN THE EVENT THAT THE SUBMITTED SAMPLES ARE DISAPPROVED, THE FIXTURES WILL BE RETURNED TO THE CONTRACTOR TO IMMEDIATELY MAKE A NEW SUBMITTAL OF A FIXTURE OR FIXTURE MEETING THE REQUIREMENTS.
     4) ALL SHIPPING CHARGES (ROUND-TRIP) ARE TO BE PRE-PAID BY THE CONTRACTOR.
8. MOCKUPS
   - A. THE CONTRACTOR SHALL PREPARE MOCKUPS ACCORDING TO THE DIRECTION OF THE ARCHITECT, INTERIOR DESIGNER AND LIGHTING DESIGN CONSULTANT FOR THE FOLLOWING APPLICATIONS:
     1) INTERNALLY LIT OR BACKLIT FEATURES.
     2) LIGHTING OF ART OR MEMORABILIA.
     3) SPECIAL EFFECTS LIGHTING.
     4) UNIQUE COVE LIGHTING CONDITIONS, BOTH HORIZONTAL AND VERTICAL CONFIGURATIONS.
     5) EXTERIOR FACADE LIGHTING OF UNIQUE ARCHITECTURAL DETAILS. MOCKUPS ARE TO BE PRESERVED AND PROTECTED UNTIL SUBSTANTIAL COMPLETION, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT.
9. LIGHTING FIXTURE PRICING AND SUBSTITUTIONS
   - A. THE CONTRACTOR SHALL BASE LIGHTING FIXTURE BIDS ON THE MANUFACTURERS LISTED IN THE FIXTURE SCHEDULE.
   - B. ANY SUBMITTALS FOR COST-REDUCTION OR VALUE-ENGINEERING ALTERNATES SHALL INCLUDE A TABLE LISTING FIXTURE TYPE, SCHEDULED MANUFACTURER AND PART NUMBER, UNIT PRICE FOR THE SCHEDULED PRODUCT, PROPOSED ALTERNATE PRODUCT, AND UNIT PRICING FOR THE PROPOSED ALTERNATE.
   - C. ALL REQUIRED UNIT PRICING SHALL BE CONTRACTOR NET, AND SHALL LIST EQUIPMENT PRICES SEPARATE FROM THOSE FOR INSTALLATION OR MISCELLANEOUS ELECTRICAL COSTS.
   - D. THE CONTRACTOR SHALL SUBMIT OPERABLE FIXTURE SAMPLES FOR FIXTURE TYPES FOR WHICH A SUBSTITUTE IS PROPOSED, CONCURRENT WITH THE INITIAL SUBMITTAL OF FIXTURE DATA OR SHOP DRAWINGS. THE CONTRACTOR MAY, IN ADVANCE, SUBMIT A LIST OF THOSE PROPOSED ALTERNATES TO THE ARCHITECT AND LIGHTING DESIGN CONSULTANT TO DETERMINE IF THE SAMPLE REQUIREMENT MAY BE WAIVED FOR ANY OF THOSE FIXTURE TYPES.
10. INSTALLATION
    - A. FIELD-VERIFY THAT ANY FIXTURES NOTED AS "CONCEALED" ARE SHIELDED FROM VIEW FOLLOWING INSTALLATION OF THE FIRST ARTICLE. CONTACT THE ARCHITECT AND LIGHTING DESIGN CONSULTANT IF CONCEALMENT IS DISCOVERED TO BE IMPOSSIBLE AS DETAILED.
    - B. VERIFY MOUNTING LOCATIONS AND HEIGHTS OF ALL DECORATIVE FIXTURES WITH THE ARCHITECT OR INTERIOR DESIGNER PRIOR TO INSTALLATION.
11. PUNCH LISTS
    - A. PRIOR TO INITIAL PUNCH LIST VISIT BY THE LIGHTING DESIGN CONSULTANT THE CONTRACTOR SHALL VERIFY THAT THE FOLLOWING ITEMS ARE COMPLETED.
      1) ALL FIXTURES AND TRIMS HAVE BEEN CLEANED PER MANUFACTURER'S RECOMMENDATIONS TO REMOVE DUST, DIRT, PAINT, FINGERPRINTS, ETC.
      2) THE PROPER LAMPS, LENSES, AND ACCESSORIES HAVE BEEN INSTALLED PER THE FIXTURE SCHEDULE AND APPROVED SUBMITTALS.
      3) ALL TRIMS HAVE BEEN INSTALLED.
      4) ALL FIXTURES ARE FULLY OPERABLE AND THE FIXTURES HAVE BEEN ENERGIZED.
      5) ALL PORTIONS OF THE CONTROL, SWITCHING, AND DIMMING SYSTEMS ARE FULLY OPERABLE AND HAVE BEEN CONFIGURED FOR BASIC CHANNEL ASSIGNMENTS.
12. FOCUS AIMING AND ADJUSTMENTS
    - A. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, LIFTS, LADDERS AND OTHER MATERIALS REQUIRED TO AIM AND ADJUST LIGHTING FIXTURES ACCORDING TO THE LIGHTING DESIGN CONSULTANT'S INTENT AND UNDER THE CONSULTANT'S OBSERVATION. CREWS PROVIDED TO WORK WITH THE CONSULTANT SHOULD BE ABLE TO COMMUNICATE EFFECTIVELY IN ENGLISH.
    - B. AT MINIMUM, ALLOW 3 TO 5 MINUTES TIME TO AIM EACH ADJUSTABLE LIGHTING FIXTURE, PLUS ADDITIONAL TIME AS REQUIRED TO RELOCATE LADDERS. ALLOW ADDITIONAL TIME WHERE HIGH-REACH LIFTS ARE REQUIRED, OR WHERE OBSTRUCTIONS INTERFERE WITH ACCESS.
    - C. PRIOR TO AIMING AND ADJUSTMENT, THE CONTRACTOR SHALL VERIFY THAT:
      1) ALL FIXTURES ARE INSTALLED AND OPERABLE.
      2) THE SCHEDULED LAMP HAS BEEN INSTALLED IN EACH FIXTURE, INCLUDING WATTAGE, BEAM SPREAD AND COLOR TEMPERATURE.
      3) ANY SCHEDULED ACCESSORIES INCLUDING LENSES, LOUVERS AND COLOR FILTERS HAVE BEEN INSTALLED.
      4) SPARES ARE AVAILABLE ON-SITE FOR EACH LAMP TYPE.
      5) THE CREW IS EQUIPPED WITH ANY NECESSARY TOOLS NECESSARY TO ACCESS, ADJUST AND SECURE ALL FIXTURE TYPES.
      6) ANY PERSONNEL LIFTS TO BE USED ARE OPERABLE AND, IF BATTERY-OPERATED, FULLY CHARGED.
      7) ANY NECESSARY PROTECTIVE MATERIALS ARE IN PLACE AT FLOORS WHERE LADDERS OR LIFTS ARE TO BE USED.
    - D. THE CONTRACTOR SHALL CONTACT THE ARCHITECT AND LIGHTING DESIGN CONSULTANT AT LEAST TWO WEEKS IN ADVANCE TO COORDINATE AND SCHEDULE FOCUS AIMING AND ADJUSTMENT SESSIONS. WORK AT EXTERIORS OR AT INTERIOR LOCATIONS RECEIVING SIGNIFICANT AMOUNTS OF DAYLIGHT SHALL BE SCHEDULED TO OCCUR AFTER DUSK. THE GENERAL WORK OF THE PROJECT SHALL BE COORDINATED SO THAT INCOMPATIBLE WORK IS NOT SCHEDULED DURING THE SESSIONS, AND SO THAT ALL NECESSARY AREAS OF THE PROJECT ARE ACCESSIBLE DURING THE SESSIONS.
13. PAINTING
    - A. IN ORDER TO PREVENT DAMAGE TO TRIMS AND ADJACENT FINISHES DURING MAINTENANCE OR ADJUSTMENT, DOWNLIGHT TRIMS AND SIMILAR COMPONENTS SHALL NOT BE INSTALLED UNTIL PAINT, PLASTER, STUCCO OR OTHER TREATMENT AT THE FINISH SURFACE HAS BEEN APPLIED AND ALLOWED TO DRY THOROUGHLY, OR TRIMS SHALL BE TEMPORARILY REMOVED AND SET ASIDE WHILE SUCH TREATMENT IS APPLIED AND ALLOWED TO DRY THOROUGHLY.
    - B. WHERE THE DRAWINGS OR SCHEDULE NOTES THAT A TRIM IS TO BE PAINTED TO MATCH THE ADJACENT FINISH, THE EXPOSED SURFACE OF THE TRIM RING, PINHOLE APERTURE, OR SLOT APERTURE TRIM PARALLEL TO THE PLANE OF THE INSTALLATION SURFACE AND INCLUDING THE RETURN TO THE SURFACE AT ITS OUTER EDGE SHALL BE CLEANED, PRIMED, PAINTED AND ALLOWED TO DRY PRIOR TO ITS INSTALLATION. WHERE THAT NOTE IS APPLIED TO SELF-FLANGED REFLECTOR TRIMS, THE CONE SHALL BE MASKED AND PROTECTED FROM THE POINT WHERE IT MEETS THE INSIDE CIRCUMFERENCE OF THE FLANGE.
    - C. ANY SCREWS, FASTENERS OR OTHER HARDWARE, WHICH MUST BE MANIPULATED FOR FIXTURE ADJUSTMENT OR MAINTENANCE, SHALL BE PROTECTED FROM BEING FIXED IN PLACE BY PAINT.
14. PRIOR TO SUBSTANTIAL COMPLETION, ALL EXPOSED COMPONENTS SHALL BE CLEANED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS TO REMOVE ALL DUST, PAINT, FINGERPRINTS OR OTHER DEBRIS OR RESIDUE FROM ADJACENT WORK.

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ALL EQUIPMENT ATTACHMENT DETAILS AND STRUCTURAL LOAD CALCULATIONS MUST BE PROVIDED BY A LICENSED STRUCTURAL ENGINEER.

FOR LIGHTING DESIGN INFORMATION ONLY

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

GENERAL INTERIOR LIGHTING REQUIREMENTS

Sheet No.

2LT-0.02

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	FINISH	MOUNTING	MANUFACTURER PRODUCT CODE	LIGHT SOURCE	POWER SUPPLY	FIXT. WATTS (EACH OR PER FOOT)	INPUT WATTS (EACH OR PER FOOT)	FIXTURE VOLTAGE	CONTROL METHOD	DESIGNED REQUIRED MINIMUM DIMMING RANGE	LOCATION	FIXTURE NOTES
D1N	4.9" SQUARE SURFACE MOUNTED LED DOWNLIGHT SIZE:4.9" SQUARE X 4.5" H	STANDARD TBD	SURFACE MOUNTED TO DRYWALL	DELTA LIGHT BOXY XL S 92720 FIXTURE: 6 251 72 21 921<FINISH>	INTEGRAL LED BEAM: 20° CCT: 2700°K CRI: 90 LUMENS: 1269	INTEGRAL	18	21	120V	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	1%	GENERAL DOWNLIGHT	
D1WA	4.9" SQUARE SURFACE MOUNTED LED DOWNLIGHT SIZE:4.9" SQUARE X 4.5" H	STANDARD TBD	SURFACE MOUNTED TO DRYWALL	DELTA LIGHT BOXY XL S 92737 FIXTURE: 6 251 72 21 923 <FINISH>	INTEGRAL LED BEAM: 37° CCT: 2700°K CRI: 90 LUMENS: 1338	INTEGRAL	18	21	120V	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	1%	GENERAL DOWNLIGHT	
D1WB	4.9" SQUARE SURFACE MOUNTED LED DOWNLIGHT SIZE:4.9" SQUARE X 4.5" H	STANDARD TBD	SURFACE MOUNTED TO DRYWALL	DELTA LIGHT BOXY XL S 92737 FIXTURE: 6 251 72 21 923 <FINISH>	INTEGRAL LED BEAM: 37° CCT: 2700°K CRI: 90 LUMENS: 1338	INTEGRAL	18	21	120V	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	1%	GENERAL DOWNLIGHT	
D2	4.1" SQUARE SURFACE MOUNTED LED ADJUSTABLE DOWNLIGHT WITH INTEGRAL DOUBLE GIMBAL RINGS SIZE:4.1" SQUARE X 4" H	STANDARD TBD	SURFACE MOUNTED TO DRYWALL	DELTA LIGHT MINIGRID ON 1 BOX DIM8 + MINIGRID SNAP-IN REO 92733 FIXTURE: 6 202 79 01 ED8 + 6 202 790 81922 <FINISH>	INTEGRAL LED BEAM: 33° CCT: 2700°K CRI: 90 LUMENS: 577	INTEGRAL	9	11	120V	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	1%	GENERAL ADJUSTABLE ACCENT	
D3NA	2" ROUND APERTURE RECESSED LED DOWNLIGHT WITH SELF FLANGED TRIM AND NON-IC HOUSING	TBD	RECESSED INTO HUNTER DOUGLAS TECHSTYLE WOOD CEILING	GOTHAM-INCITO HOUSING: ICO-27/07-2<FINISH>-_<TRIM>-LD -30D-MVOLT-UGZ-CRI90	INTEGRAL LED BEAM: 30° CCT: 2700°K CRI: 90+ LUMENS: 750	INTEGRAL	10	10	120/277V	0-10V	1%	1ST LEVEL-MPR WOOD CEILING	
D3NB	2" ROUND APERTURE RECESSED LED DOWNLIGHT WITH SELF FLANGED TRIM AND NON-IC HOUSING	TBD	RECESSED INTO DRYWALL	GOTHAM-INCITO HOUSING: ICO-27/07-2<FINISH>-_<TRIM>-LD -30D-MVOLT-UGZ-CRI90	INTEGRAL LED BEAM: 30° CCT: 2700°K CRI: 90+ LUMENS: 750	INTEGRAL	10	10	120/277V	0-10V	1%	1ST LEVEL-MPR BUFFET ROOM	
D3NC	2" ROUND APERTURE RECESSED LED DOWNLIGHT WITH SELF FLANGED TRIM AND NON-IC HOUSING	TBD	RECESSED INTO DRYWALL	GOTHAM-INCITO HOUSING: ICO-27/07-2<FINISH>_<TRIM>-LD-30D-MVOLT-UGZ-CRI90	INTEGRAL LED BEAM: 30° CCT: 2700°K CRI: 90+ LUMENS: 750	INTEGRAL	10	10	120/277V	0-10V	1%	1ST LEVEL - EXTERIOR CANOPY	
D3ND	2" ROUND APERTURE RECESSED LED DOWNLIGHT WITH SELF FLANGED TRIM AND NON-IC HOUSING	TBD	RECESSED INTO DRYWALL	GOTHAM-INCITO HOUSING: ICO-27/07-2<FINISH>_<TRIM>-LD-30D-MVOLT-UGZ-CRI90	INTEGRAL LED BEAM: 30° CCT: 2700°K CRI: 90+ LUMENS: 750	INTEGRAL	10	10	120/277V	0-10V	1%	3RD LEVEL - CONFERENCE RM	
L1	1' & 4' LONG SURFACE MOUNTED LINEAR LED WALL WASH WITH ADJUSTABLE MOUNTING CLIPS AND ASYMMETRIC BEAM	STANDARD	SURFACE MOUNTED TO DRYWALL	ECOSENSE-TROV FIXTURE: L50-I-<LENGTH>-06-27-90-MULT-25X45 MOUNT: MNT-L-ANGLOCK 0-10V: LDCM-PL-120-277-010V-GR PROVIDE ALL NECESSARY MOUNTING CONNECTORS AND END FEEDS FOR AN OPERATIONAL CODE COMPLIANT INSTALLATION	INTEGRAL LED BEAM: 25°X45° CCT: 2700°K CRI: 90+	INTEGRAL	8	8	120/277V	0-10V	1%	1ST LEVEL - REGISTRATION WALL	
L2	2.5" WIDE LINEAR LED LIGHT WITH PERFORMANCE LENS AND EXPOSED FLANGE TRIM	STANDARD TBD	RECESSED IN WOOD	AMERILUX-GRUV 2.5" GRUV2.5-FLG-A16-PL-5-930-HW-120/277-<LENGTH>-<CONFIGURATION>-0-10V-92 CRI PROVIDE ALL NECESSARY MOUNTING CONNECTORS AND END FEEDS FOR AN OPERATIONAL CODE COMPLIANT INSTALLATION	INTEGRAL LED CCT: 3000°K CRI: 92	INTEGRAL	5	5	120/277V	0-10V	1%	1ST LEVEL - BRIDGE	CONTRACTOR TO PAINT TRIM TO MATCH CEILING FINISH PRIOR TO INSTALLATION AND PRIOR TO LENS INSTALLATION.
L3	LOW VOLTAGE LINEAR LED LIGHT IN RIGID PLASTIC EXTRUSION WITH FROSTED LENS	STANDARD TBD	SURFACE MOUNTED	CALIFORNIA ACCENT LIGHTING-LLED8000-STF-2.5W-DM-LED-2.7K-DRY-<FINISH> REMOTE POWER SUPPLY: TBD BY CONTRACTOR PROVIDE ALL NECESSARY CONNECTORS, WIRING, AND MOUNTING HARDWARE NECESSARY FOR A CODE COMPLIANT INSTALLATION.	INTEGRAL LED CCT: 2700°K CRI: 90 LUMENS: 225	REMOTE	2.5	2.5	120V PRIMARY/ 24V SECONDARY	MAGNETIC LOW VOLTAGE/ FORWARD PHASE	5%	1ST LEVEL - REGISTRATION DECK	MOUNTED WITH CLIPS EVERY 8"-12" OR CONTRACTOR SUPPLIED MANUFACTURER APPROVED ADHESIVE.
L4	LOW VOLTAGE LINEAR LED LIGHT IN RIGID PLASTIC EXTRUSION WITH FROSTED LENS	STANDARD TBD	SURFACE MOUNTED	CALIFORNIA ACCENT LIGHTING-LLED8000-STF-4.5W-DM-LED-3.0K-DRY-<FINISH> REMOTE POWER SUPPLY: TBD BY CONTRACTOR PROVIDE ALL NECESSARY CONNECTORS, WIRING, AND MOUNTING HARDWARE	INTEGRAL LED CCT: 3000°K CRI: 90 LUMENS: 225	REMOTE	4.5	4.5	120V PRIMARY/ 24V SECONDARY	MAGNETIC LOW VOLTAGE/ FORWARD PHASE	5%	1ST LEVEL -MPR CEILING	MOUNTED WITH CLIPS EVERY 8"-12" OR CONTRACTOR SUPPLIED MANUFACTURER APPROVED ADHESIVE.
L5	1.5" OD SOLID STATE LED LINEAR ILLUMINATED HAND RAIL WITH ASYMMETRIC BEAM SPREAD. MOUNTING ANGLE TBD. HANDRAIL AND JACKET ONLY. POST AND GUARDRAIL ASSEMBLY BY OTHERS. TO BE COORDINATED WITH MANUFACTURER PRIOR TO PURCHASE.	STAINLESS STEEL	WALL MOUNTED TO POST/GUARDRAIL	INTENSE - V-RAIL HOUSING: IVR15-RPS-ST-W-HO-27-30AS DRIVER: IB-OT96-DIM PROVIDE ALL NECESSARY DRIVERS, MOUNTING CONNECTORS, AND END FEEDS FOR AN OPERATIONAL CODE COMPLIANT INSTALLATION. FIXTURE TO INTEGRATE WITH GUARDRAIL FROM SEPARATE MANUFACTURER.	INTEGRAL LED BEAM: 30° ASYM. CCT: 2700°K CRI: LUMENS: 194	REMOTE	4.6	4.6	120V PRIMARY/ 24V SECONDARY	0-10V	10%	1ST AND 2ND LEVEL - LOBBY HANDRAILS	ILLUMINATED HANDRAIL AND JACKET TO BE COORDINATED WITH GUARDRAIL CONSULTANT
L6	1.9" WIDE X 4' LONG RECESSED LINEAR LED DOWNLIGHT WITH FLUSH LENS AND FLANGE TRIM	STANDARD TBD	IN WOOD CEILING	AXIS - SCULPT SCR-300-90-30-FL-4-<FINISH>-UNV-DP-1-<MOUNTING>-<OPTIONS>	INTEGRAL LED CCT: 3000°K CRI: 90 LUMENS: 300/FT	INTEGRAL	13	13	120/277V	0-10V	1%	4TH LEVEL - BREAK ROOM	CONTRACTOR TO VERIFY CEILING CONDITIONS PRIOR TO PURCHASING THE FIXTURE.
L7	1.5" WIDE X 4' LONG RECESSED LINEAR LED DOWNLIGHT WITH FLUSH LENS AND FLANGE TRIM	WHITE	RECESSED IN DRYWALL	AXIS - SCULPT SCR-300-90-30-FL-4-W-UNV-DP-1-<MOUNTING>-<OPTIONS>	INTEGRAL LED CCT: 3000°K CRI: 90 LUMENS: 300/FT	INTEGRAL	13	13	120/277V	0-10V	1%	4TH LEVEL - BREAK ROOM	CONTRACTOR TO VERIFY CEILING CONDITIONS PRIOR TO PURCHASING THE FIXTURE.
TL-1	THEATRICAL SEVEN COLOR LED PROFILE FIXTURE WITH INTERCHANGEABLE LENS TUBE, SHUTTERS,	STANDARD TBD	TBD WITH ARCHITECT	ETC-SOURCE 4 LED SERIES 2 LUSTR FIXTURE: S4LEDS2LS-0 BARREL: DEGREE TBD FIXTURE TO BE PROVIDED WITH ALL MOUNTING HARDWARE, SAFETY CABLE, POWER AND DATA FEEDS REQUIRED FOR A FULLY OPERATIONAL FIXTURE	INTEGRAL LED BEAM: TBD° CCT: 7 COLOR RGB CRI: 90	INTEGRAL	171	171	120V	DMX	0.1%	2ND LEVEL - STEEL COLUMNS	
TL-2	THEATRICAL MOVING HEAD LED PROFILE FIXTURE WITH TWO COLOR WHEELS, ROTATING GOBO WHEEL, FIXED GOBO WHEEL, PRISM	STANDARD TBD	TBD WITH ARCHITECT	MARTIN-RUSH MH 5 PROFILE FIXTURE TO BE PROVIDED WITH ALL MOUNTING HARDWARE, SAFETY CABLE, POWER AND DATA FEEDS REQUIRED FOR A FULLY OPERATIONAL FIXTURE	INTEGRAL LED	INTEGRAL	75	75	120V	DMX	0.1%	2ND LEVEL - STEEL COLUMNS	
W1	2" ROUND APERTURE WALL MOUNTED LED CYLINDER	STANDARD TBD	SURFACE MOUNTED TO STEEL ARBOR	GOTHAM-INCITO HOUSING: ICO-CYL-27/15-<TRIM>-LD-30D-MVOLT-UGZ-WMS-CRI90-<FINISH>	INTEGRAL LED BEAM: 30° CCT: 2700°K CRI: 90+ LUMENS: 750	INTEGRAL	22	25	120/277V	0-10V	1%	2ND LEVEL - STEEL COLUMNS	VERIFY POWER AND MOUNTING CONDITIONS
W2	FF&E DECORATIVE WALL MOUNTED LED SCONCE UPLIGHT, FIXTURE TO BE VERIFIED WITH INTERIOR DESIGNER PRIOR TO PURCHASING	WHITE	SURFACE MOUNTED WALL	ARTEMIDE-MESMERI 0918W18A-WHITE	INTEGRAL LED CCT: 2700°K CRI: 90 LUMENS: 1815	INTEGRAL ROAL-1XRSLD035-12	26	28	120/277V	VERIFY WITH MANUFACTURER	NON-DIM	ELEVATOR ENTRY	MUST BE MOUNTED AT 80" AFF, SCONCE IS NOT ADA COMPLIANT.
DP1A	FF&E DECORATIVE PENDANT MOUNTED COMPACT FLUORESCENT FIXTURE, FIXTURE TO BE VERIFIED WITH INTERIOR DESIGNER PRIOR TO PURCHASING SINGLE ELEMENT OF LARGER COMBINED FIXTURE	TBD PER ID	PENDANT	VIBIA - AMEBA CUSTOM FIXTURE (3) 2200	(2) F18TBX/830/AECO PL-T GX24q-2 TRIPLE TUBE CCT: 3000°K	TBD	36	36	120V	0-10V	5%	1ST LEVEL - MPR DINING	CONTRACTOR TO VERIFY FINAL WATTAGE WITH SHOP DRAWINGS AND LIGHTING CONTROL ZONE SCHEDULE AND COORDINATE NECESSARY WIRING PRIOR TO INSTALLATION.
DP1B	FF&E DECORATIVE PENDANT MOUNTED COMPACT FLUORESCENT FIXTURE, FIXTURE TO BE VERIFIED WITH INTERIOR DESIGNER PRIOR TO PURCHASING SINGLE ELEMENT OF LARGER COMBINED FIXTURE	TBD PER ID	PENDANT	VIBIA - AMEBA CUSTOM FIXTURE (3) 2205	(3) F18TBX/830/AECO PL-T GX24q-2 TRIPLE TUBE CCT: 3000°K	TBD	54	54	120V	0-10V	5%	1ST LEVEL - MPR DINING	CONTRACTOR TO VERIFY FINAL WATTAGE WITH SHOP DRAWINGS AND LIGHTING CONTROL ZONE SCHEDULE AND COORDINATE NECESSARY WIRING PRIOR TO INSTALLATION.
DP1C	FF&E DECORATIVE PENDANT MOUNTED COMPACT FLUORESCENT FIXTURE, FIXTURE TO BE VERIFIED WITH INTERIOR DESIGNER PRIOR TO PURCHASING SINGLE ELEMENT OF LARGER COMBINED FIXTURE	TBD PER ID	PENDANT	VIBIA - AMEBA CUSTOM FIXTURE (4) 2210	(3) F18TBX/830/AECO PL-T GX24q-2 TRIPLE TUBE CCT: 3000°K	TBD	54	54	120V	0-10V	5%	1ST LEVEL - MPR DINING	CONTRACTOR TO VERIFY FINAL WATTAGE WITH SHOP DRAWINGS AND LIGHTING CONTROL ZONE SCHEDULE AND COORDINATE NECESSARY WIRING PRIOR TO INSTALLATION.

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GENE THEORY -
CP-2
VOLUME 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM 2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

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LIGHTING DESIGNERS + THEATRE CONSULTANTS

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ALL EQUIPMENT ATTACHMENT DETAILS AND STRUCTURAL LOAD CALCULATIONS MUST BE PROVIDED BY A LICENSED STRUCTURAL ENGINEER.

FOR LIGHTING DESIGN INFORMATION ONLY

ADDENDUM 2.2
10.03.17

Sheet Title
LIGHTING FIXTURE SCHEDULE

Sheet No.
2LT-0.03

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	FINISH	MOUNTING	MANUFACTURER PRODUCT CODE	LIGHT SOURCE	POWER SUPPLY	FIXT. WATTS (EACH OR PER FOOT)	INPUT WATTS (EACH OR PER FOOT)	FIXTURE VOLTAGE	CONTROL METHOD	DESIGNED REQUIRED MINIMUM DIMMING RANGE	LOCATION	FIXTURE NOTES
DP1D	FF&E DECORATIVE PENDANT MOUNTED COMPACT FLUORESCENT FIXTURE, FIXTURE TO BE VERIFIED WITH INTERIOR DESIGNER PRIOR TO PURCHASING SINGLE ELEMENT OF LARGER COMBINED FIXTURE	TBD PER ID	PENDANT	VIBIA - AMEBA CUSTOM FIXTURE (4) 2215	(3) F18TBX/830/AECO PL-T GX24q-2 TRIPLE TUBE CCT: 3000°K	TBD	54	54	120V	0-10V	5%	1ST LEVEL - MPR DINING	CONTRACTOR TO VERIFY FINAL WATTAGE WITH SHOP DRAWINGS AND LIGHTING CONTROL ZONE SCHEDULE AND COORDINATE NECESSARY WIRING PRIOR TO INSTALLATION.
DP1E	FF&E DECORATIVE PENDANT MOUNTED COMPACT FLUORESCENT FIXTURE, FIXTURE TO BE VERIFIED WITH INTERIOR DESIGNER PRIOR TO PURCHASING SINGLE ELEMENT OF LARGER COMBINED FIXTURE	TBD PER ID	PENDANT	VIBIA - AMEBA CUSTOM FIXTURE (4) 2220	F26TBX/830/4P/ECO PL-T GX24q-2 TRIPLE TUBE CCT: 3000°K	TBD	26	26	120V	0-10V	5%	1ST LEVEL - MPR DINING	CONTRACTOR TO VERIFY FINAL WATTAGE WITH SHOP DRAWINGS AND LIGHTING CONTROL ZONE SCHEDULE AND COORDINATE NECESSARY WIRING PRIOR TO INSTALLATION.
DP2	FF&E DECORATIVE PENDANT LED FIXTURE WITH SATIN DIFFUSER, FIXTURE TO BE VERIFIED WITH INTERIOR DESIGNER PRIOR TO PURCHASING	TBD PER ID	PENDANT	LUCEPLAN-SILENZIO STRUCTURE: 1D79-<SIZE>-C000<FINISH> OPTICS: 9D7910101900 DIFFUSER: 9D7907726<SIZE> DIAMETER: TBD	INTEGRAL LED CCT: 3000°K	TBD	40	40	120V	VERIFY WITH MANUFACTURER	DIMMING LEVEL AS REQUIRED	3RD LEVEL - CONFERENCE RM	
DP3	FF&E DECORATIVE PENDANT LED FIXTURE, FIXTURE TO BE VERIFIED WITH INTERIOR DESIGNER PRIOR TO PURCHASING	WHITE	PENDANT	ARTEMIDE - LED NET LINE 125 1578058A	INTEGRAL LED CCT: 3000°K CRI: 80 LUMENS: 1851	REMOTE ROAL-RSLD035-16	28	30	120/277V	0-10V	DIMMING LEVEL AS REQUIRED	4TH LEVEL - BREAK ROOM	MOUNTING HEIGHT TO BE VERIFIED PRIOR TO INSTALLATION.
DP4	FF&E DECORATIVE PENDANT LED FIXTURE, FIXTURE TO BE VERIFIED WITH INTERIOR DESIGNER PRIOR TO PURCHASING	WHITE LACQUER FIBER	PENDANT	VIBIA-SLIM 0920-03	INTEGRAL LED CCT: 3000°K CRI: 80 LUMENS: 180 APX.	INTEGRAL IN CANOPY	2.1	3	120/277V	RELAY (NON-DIM)	NON-DIM	1ST LEVEL - RECEPTION DESK	
SL1	EXTERIOR RATED RECESSED LED STEPLIGHT	STANDARD TBD	RECESSED IN WALL	BEGA 22382-<FINISH> PROVIDE ALL NECESSARY CONNECTORS, WIRING, AND MOUNTING HARDWARE NECESSARY FOR A CODE COMPLIANT INSTALLATION.	INTEGRAL LED CCT: 3000°K LUMENS: 155	INTEGRAL	5.6	7.5	120/277V	0-10V	DIMMING LEVEL AS REQUIRED	EXTERIOR STAIRS	LOCATION AND MOUNTING OF FIXTURES TO BE COORDINATED
AA1	EXTERIOR GROUND MOUNTED 3 PRONG STAKE MOUNT LED UPLIGHT EACH FIXTURE TO BE HOME RUN TO TRANSFORMER, WITH MINIMUM OF 8' EXTRA LOW VOLTAGE WIRE AT FIXTURE FOR MOVEMENT IN THE FIELD	BRONZE TEXTURE	STAKE MOUNTED	EXCELSIOR LIGHTING FIXTURE: FA-4L-A-BZT-60-34° MOUNT: MT-6-10-1-BZT REMOTE TRANSFORMER: Q TRAN, Q VAULT WITH Q SET MLED CASSETT	INTEGRAL LED BEAM: 34° CCT: 3000°K CRI: 80 LUMENS: 684	REMOTE	12.5	15	277V PRIMARY/ 12V SECONDARY	RELAY (NON-DIM)	NON-DIM	SITE TREES	TRANSFORMER TO BE LOCATED IN AN ACCESSIBLE, OUT OF SITE AREA WITHIN MANUFACTURER RECOMMENDED DISTANCES. CONTRACTOR TO COORDINATE WITH ARCHITECT PRIOR TO LOCATING IN THE FIELD.
AA1 ALT	GROUND MOUNTED LED ACCENT LIGHT WITH 3 PRONG STAKE MOUNTING, LOW VOLTAGE REMOTE TRANSFORMER REQUIRED EACH FIXTURE TO BE HOME RUN TO TRANSFORMER, WITH MINIMUM OF 8' EXTRA LOW VOLTAGE WIRE AT FIXTURE FOR MOVEMENT IN THE FIELD	BRONZE TEXTURE	STAKE MOUNTED	WAC LIGHTING FIXTURE: 5011-30-BZ MOUNTING: 5000-SCP-BZ REMOTE TRANSFORMER: Q TRAN, Q VAULT WITH Q SET MLED CASSETT	INTEGRAL LED BEAM: 34° CCT: 3000°K LUMENS: 1045 APX.	REMOTE	16	16	277V PRIMARY/ 12V SECONDARY	RELAY (NON-DIM)	NON-DIM	SITE TREES	TRANSFORMER TO BE LOCATED IN AN ACCESSIBLE, OUT OF SITE AREA WITHIN MANUFACTURER RECOMMENDED DISTANCES. CONTRACTOR TO COORDINATE WITH ARCHITECT PRIOR TO LOCATING IN THE FIELD.
AA2	NOT USED												
AA3	EXTERIOR GROUND MOUNTED 3 PRONG STAKE MOUNT LED MINI WASH LIGHT EACH FIXTURE TO BE HOME RUN TO TRANSFORMER, WITH MINIMUM OF 8' EXTRA LOW VOLTAGE WIRE AT FIXTURE FOR MOVEMENT IN THE FIELD	BRONZE TEXTURE	STAKE MOUNTED	EXCELSIOR LIGHTING FIXTURE: PL-6-A-0-120-BZT-311 LAMP MOUNT: MT-6-10-1-BZT REMOTE TRANSFORMER: Q TRAN, Q VAULT WITH Q SET MLED CASSETT	LED REPLACEMENT LAMP JQ 3.5W BASE: GY6.35 (G4) WATT: 3.5 CCT: 3000°K CRI: 80 LUMENS: 684	REMOTE	3.5	10	277V PRIMARY/ 12V SECONDARY	RELAY (NON-DIM)	NON-DIM	SITE ENTRY DRIVE SIGNAGE AGAVE	TRANSFORMER TO BE LOCATED IN AN ACCESSIBLE, OUT OF SITE AREA WITHIN MANUFACTURER RECOMMENDED DISTANCES. CONTRACTOR TO COORDINATE WITH ARCHITECT PRIOR TO LOCATING IN THE FIELD.
BB1	EXTERIOR RATED LED BOLLARD	STANDARD TBD	SURFACE MOUNTED TO CONCRETE PAD	EATON-ARBOR ABB-B2-LED-36-D1-A-<FINISH>-8030-ABANCHOR HEIGHT: 36 INCHES	INTEGRAL LED DISTRIBUTION: ASYMMETRIC CCT: 3000°K CRI: 80 LUMENS: 848	INTEGRAL	23	26	120/277V	0-10V	DIMMING LEVEL AS REQUIRED	PATHWAY	
LL1	WET LISTED LOW VOLTAGE CURVABLE LINEAR LED LIGHT WITH FROSTED LENS AND QUICK CONNECTIONS, 33' MAX RUN	TBD	SURFACE MOUNTED	ORGANIC LIGHTING HIGH POWER LINILED SIDE 011.736-IP67 KIT REMOTE POWER SUPPLY: TBD BY CONTRACTOR PROVIDE ALL NECESSARY CONNECTORS, WIRING, AND MOUNTING HARDWARE NECESSARY FOR A CODE COMPLIANT INSTALLATION.	INTEGRAL LED CCT: 3000°K CRI: 90 LUMENS: 237	REMOTE	3	4	277V PRIMARY/ 24V SECONDARY	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	5%	EXTERIOR UNDER BENCH LIGHT	CONTRACTOR TO COORDINATE MOUNTING PARTS PRIOR TO PURCHASING, MOUNTED WITH CLIPS EVERY 6" OR CONTRACTOR SUPPLIED MANUFACTURER APPROVED ADHESIVE.
LL2	WET LISTED FLEXIBLE LINE VOLTAGE LINEAR LED LIGHT, FACTORY CUTTABLE TO 12" INCREMENTS CONTRACTOR TO HIDE ALL WIRE FEEDS, CONNECTORS AND MOUNTING HARDWAR	N/A	SURFACE MOUNTED	OPTIC ARTS FLEXAC-65-30-120-45-<LENGTH TO BE VERIFIED BY CONTRACTOR PRIOR TO PURCHASING PROVIDE ALL NECESSARY MOUNTING CONNECTORS AND END FEEDS FOR AN OPERATIONAL CODE COMPLIANT INSTALLATION	INTEGRAL LED CCT: 3000°K CRI: 90 LUMENS: 354/LF	INTEGRAL	4.5	4.5	120V	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	DIMMING LEVEL AS REQUIRED	EXTERIOR BRIDGES AND STAIRS	CONTRACTOR TO COORDINATE MOUNTING PARTS PRIOR TO PURCHASING, MOUNTED WITH CLIPS EVERY 6"-10" OR CONTRACTOR SUPPLIED MANUFACTURER APPROVED ADHESIVE.
LL3	WET LOCATION 4 FOOT WALL MOUNTED LINEAR LED SIGN UPLIGHT WITH WALL BRACKET AND GLARE SHIELD	STANDARD TBD	WALL MOUNTED	ECOSENSE-TROV FIXTURE: L50-E-48-06-30-90-MULT-40X40 24" MOUNT: WMA-L-CA-24 MASKING PLATE: MP-L50-3H-48 PROVIDE ALL NECESSARY MOUNTING CONNECTORS AND END FEEDS FOR AN OPERATIONAL CODE COMPLIANT INSTALLATION	INTEGRAL LED BEAM: 40"X40° CCT: 3000°K CRI: 90+	INTEGRAL	6	6	120/277V	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	DIMMING LEVEL AS REQUIRED	SITE ENTRY DRIVE SIGNAGE	
LL4	WET LOCATION 4 FOOT PODIUM MOUNTED LINEAR LED SIGN UPLIGHT WITH CUSTOM COLOR CHANGING CAPABILITIES AND GLARE SHIELD	STANDARD TBD	PODIUM MOUNTED TBD	COLOR KINETICS-COLORGRAZE QLX POWERCORE FIXTURE: 123-000079-37 4' GLARE SHIELD: 120-000081-03 PROVIDE ALL NECESSARY MOUNTING CONNECTORS AND END FEEDS FOR AN OPERATIONAL CODE COMPLIANT INSTALLATION	INTEGRAL LED BEAM: 15°X30° CCT: RGB CRI: 90+	INTEGRAL	60	60	277V	DMX	5%	SITE ENTRY DOOR SIGNAGE	FIXTURE TO BE COORDINATED WITH FINAL SIGNAGE DESIGN.
LL5	WET LOCATION 20 INCH RECESSED INGRADE LINEAR LED ASYMMETRIC UPLIGHT WITH FROSTED LENS	BRUSHED STEEL	RECESSED INGRADE	BEGA 77917-K3 LENGTH: 20"	INTEGRAL LED DISTRIBUTION: ASYMMETRIC CCT: 3000°K CRI: 80 LUMENS: 1325	INTEGRAL	22	27	120/277V	0-10V	DIMMING LEVEL AS REQUIRED	SITE-GREEN WALL	
PP1	12' EXTERIOR RATED LED POLE LIGHT	STANDARD TBD	SURFACE MOUNTED	EATON-ARBOR ARB-B1-LED-D1-T3-<FINISH>-8030 HEIGHT: 12 FOOT	INTEGRAL LED DISTRIBUTION: TYPE III CCT: 3000°K CRI: 80 LUMENS: 2324	INTEGRAL	24	28	120/277V	0-10V	50%	SITE	
PP2	16' EXTERIOR RATED LED POLE LIGHT	STANDARD TBD	SURFACE MOUNTED	EATON-ARBOR ARB-B1-LED-D1-T3-<FINISH>-8030 HEIGHT: 16 FOOT	INTEGRAL LED DISTRIBUTION: TYPE III CCT: 3000°K CRI: 80 LUMENS: 2324	INTEGRAL	24	28	120/277V	0-10V	50%	SITE	
UU1	EXTERIOR ROUND RECESSED INGRADE LED UPLIGHT	STANDARD TBD	RECESSED INGRADE	HYDREL FIXTURE: M9820-A-LED-WHT30K-MVOLT-NSP-FLC34B-LP-<FINISH>	INTEGRAL LED BEAM: 15°K CCT: 3000°K CRI: 80 CBCP: 2,840	INTEGRAL	54	54	277V	RELAY (NON-DIM)	DIMMING LEVEL AS REQUIRED	SITE-FLAGPOLES	
WW1	TRELLIS MOUNTED LOW VOLTAGE LED DOWNLIGHT WITH SQUARE MOUNTING BRACKET, 90° CAP, AND REMOTE TRANSFORMER	STANDARD TBD	SURFACE MOUNTED	BK LIGHTING FIXTURE: EC-LED-E64-WFL-A9-<FINISH>-B REMOTE TRANSFORMER: TR300-<VOLT> SIZE: 2.25" DIA" X 5" L X 4" D FINISH: ALUMINUM STANDARD TBD DIMMING RANGE: 25% - 100%	INTEGRAL LED BEAM: 31° CCT: 2700°K CRI: 80 CBCP: 1,300	REMOTE	7.0	7	277 PRIMARY/ 12 SECONDARY	MAGNETIC LOW VOLTAGE (MLV)	DIMMING LEVEL AS REQUIRED	SITE TRELLIS	

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GENE THEORY - CP-2
VOLUME 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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ADDENDUM 2.2
10.03.17

Sheet Title
LIGHTING FIXTURE SCHEDULE

Sheet No.
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LIGHTING CONTROL REQUIREMENTS

PART 1 - GENERAL REQUIREMENTS

A. ELECTRICAL CONTRACTOR GENERAL REQUIREMENTS

1. WORK INCLUDES FURNISHING, DELIVERY, AND INSTALLATION OF NEW LIGHTING DATA NETWORK INFRASTRUCTURE, LIGHTING CONTROL EQUIPMENT, LIGHTING DATA DISTRIBUTION, DIMMER RACKS, AND POWER CIRCUIT RELAY SWITCHING EQUIPMENT.
2. PROVIDE A COMPLETELY FUNCTIONING LIGHTING CONTROL SYSTEM, BASED UPON THE DESIGN INTENT OF THE LIGHTING DESIGN CONSULTANT AND COORDINATED WITH THE ELECTRICAL ENGINEER'S AND ARCHITECT'S DRAWINGS AND SPECIFICATIONS. ALL EQUIPMENT, FITTINGS, AND PERIPHERAL DEVICES FOR CORRECT SYSTEM OPERATION SHALL BE QUOTED, SUPPLIED, INSTALLED, CONFIGURED, TESTED, AND COMMISSIONED.
3. VERIFY THAT ALL LED LIGHTING SOURCES HAVE POWER SUPPLY DRIVERS AND CONTROL INTERFACES THAT ARE APPROPRIATE FOR THE LIGHTING CONTROL SYSTEM, AND THE PROVIDE APPROPRIATE DIMMER MODULES THAT ARE REQUIRED FOR PROPERLY CONTROLLING LED LIGHTING LOADS WITH SMOOTH FADE CURVES AND NO FLICKERING.
4. VERIFY ACCESSIBLE MOUNTING LOCATIONS, MOUNTING HARDWARE, AND WIRING REQUIREMENTS FOR ALL REMOTE DRIVERS, TRANSMITTERS, RECEIVERS, SENSORS, AND CONTROL INTERFACE DEVICES.
5. COORDINATE WITH THE CONTROL EQUIPMENT MANUFACTURER REGARDING ANY NON-STANDARD LOAD WIRING. DMX WIRING SHALL BE INSTALLED TO COMPLY WITH ANSI E1.20-2010. ALL DMX OR 0-10V LOAD TYPES SHALL ALSO BE PAIRED WITH A SWITCHED CIRCUIT ON A CONTROL CHANNEL-BY-CHANNEL BASIS TO PROVIDE LOW-END TURN OFF CAPABILITIES.
6. SUBMIT LIGHTING CONTROL SHOP DRAWINGS, INCLUDING MANUFACTURER EQUIPMENT DRAWINGS, CONTROL RISER DIAGRAMS, CONTROL EQUIPMENT DETAIL DRAWINGS, AND CIRCUIT SCHEDULES, LOW-VOLTAGE CONTROL WIRE DATASHEETS, 0-10V WIRE ROUTING DIAGRAMS, AND DMX WIRE ROUTING DIAGRAMS. THE SHOP DRAWINGS AND RELATED EQUIPMENT DATA SHALL BE SUBMITTED IN ACCORDANCE WITH THE PROVISIONS OF DIVISION 1.
7. PROVIDE AND TERMINATE LOW VOLTAGE WIRING PER THE SYSTEMS MANUFACTURER'S FINAL SHOP DRAWINGS, AND ANY OTHER CONTROL LEG WIRING TO FIXTURES WITH 0-10V OR DMX DRIVERS.
8. PROVIDE LIGHTING CONFIGURATION OPERATING SOFTWARE, IF APPLICABLE TO THE SYSTEM, INCLUDING UPGRADES AT NO ADDITIONAL COST FOR 3 YEARS AFTER SYSTEM ACCEPTANCE.
9. PROVIDE THE SERVICES OF A FACTORY-TRAINED AND AUTHORIZED REPRESENTATIVE OF THE LIGHTING CONTROL SYSTEM MANUFACTURER TO CONFIGURE, TEST, AND COMMISSION THE CONTROL SYSTEM.
10. ASSIGN CONTROL ADDRESSES TO ANY DMX-CONTROLLED LIGHTING FIXTURES.
11. CONFIGURE AND PROGRAM THE LIGHTING CONTROL SYSTEM ACCORDING TO THE LIGHTING DESIGN CONSULTANT'S DIRECTION.

B. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING ON-SITE CONFIGURATION AND PROGRAMMING SERVICES:

1. SUFFICIENT CONFIGURATION TIME TO PROPERLY TERMINATE ALL CONTROL WIRING; BIND ALL CONTROL INTERFACE DEVICES TO THE SYSTEM; CONFIGURE DMX AND LIGHTING CONTROL NETWORKS; TEST ALL CONTROL DEVICES; VERIFY ALL LOAD CIRCUIT ASSIGNMENTS; SET AND PATCH CONTROL ADDRESSES FOR ANY LIGHTING FIXTURES WHICH UTILIZE CONTROL DATA; AND PERFORM ANY OTHER TASKS WHICH ARE NECESSARY FOR THE TESTING AND PROPER CONFIGURATION OF THE SYSTEM PRIOR TO PROGRAMMING LIGHTING SCENES AND SEQUENCES.
2. MINIMUM 2 DAYS OF PROGRAMMING ASSISTANCE UNDER THE CREATIVE DIRECTION OF THE LIGHTING DESIGN CONSULTANT TO SET LEVELS FOR LIGHTING PRESETS. THE TECHNICIAN ASSISTING THE CONSULTANT SHALL HAVE PRIOR EXPERIENCE WITH EACH TYPE OF SYSTEM AND SOFTWARE TO BE USED, AND SHALL HAVE PERFORMED THIS FUNCTION ON PROJECTS OF SIMILAR SCOPE AND SIZE.
3. SUFFICIENT TIME TO CONFIGURE ANY OCCUPANCY AND DAYLIGHT SENSORS, INCLUDING THE ADJUSTMENT OF SET POINTS AND PROGRAMMING OF ASSOCIATED ACTIONS. CONFIGURE DAYLIGHT SENSOR TARGET POINTS AFTER LIGHTING PRESETS HAVE BEEN PROGRAMMED, USING MEASURED FOOTCANDLE VALUES FOR TARGET LEVELS.
4. MINIMUM 1/2 DAY OF PROGRAMMING ASSISTANCE UNDER THE CREATIVE DIRECTION OF THE OWNER OR THE LIGHTING DESIGN CONSULTANT TO REVISE PRESETS OR CONFIGURATION, IF REQUESTED BY THE OWNER, 2 MONTHS AFTER SYSTEM ACCEPTANCE.
5. MINIMUM 1/2 DAY OF PROGRAMMING ASSISTANCE OR SYSTEM RE-CONFIGURATION, IF REQUESTED BY THE OWNER OR LIGHTING DESIGN CONSULTANT, 6 MONTHS AFTER SYSTEM ACCEPTANCE.
6. THE SERVICE DURATIONS LISTED ESTABLISH MINIMUMS. THE CONTRACTOR SHALL NEGOTIATE THE TIME NECESSARY TO CONFIGURE THE SYSTEM AT THE TIME AND THE REQUISITE STAGE OF PREPARATION PRIOR TO THE LIGHTING DESIGN CONSULTANT OR OWNER'S ON-SITE LIGHTING DIRECTION WORK SESSIONS. IN NO EVENT SHALL THE TIME ALLOCATED FOR ONSITE LIGHTING DIRECTION BE REDUCED TO ALLOW FOR ADDITIONAL SYSTEM CONFIGURATION TIME, NOR SHALL THE OWNER BE CHARGED FOR ADDITIONAL TIME WHERE THE SYSTEM DESIGN HAS NOT BEEN CHANGED.

C. COMPLETION AND WARRANTY

1. PROVIDE TO THE OWNER (3) COPIES OF AN 'OPERATION AND SERVICE MANUAL', BOUND IN A HARD-COVER BINDER AND CONTAINING FINAL AS-BUILT SHOP DRAWINGS, CATALOG DATA, OPERATIONS AND MAINTENANCE DATA, PARTS LISTS, SOURCES FOR PARTS AND SERVICE, GUARANTEES AND WARRANTEES, LIGHTING CONTROL SCHEDULES, AND INSTRUCTIONS NECESSARY FOR THE PROPER OPERATION AND MAINTENANCE OF THE SYSTEM. THE INSTRUCTIONS MUST BE WRITTEN IN A MANNER THAT EASILY DESCRIBES THE NECESSARY DAY-TO-DAY OPERATING PROCEDURES.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) HOURS OPERATIONS AND MAINTENANCE INSTRUCTION TO THE OWNER'S OPERATIONS PERSONNEL. ALL TRAINING SESSIONS SHALL BE COORDINATED WITH THE OWNER'S SCHEDULE. COST OF SUCH INSTRUCTIONAL SERVICES SHALL BE PART OF THE CONTRACTOR'S BID.
3. FURNISH GUARANTEES COVERING ALL WORK IN ACCORDANCE WITH THE GENERAL REQUIREMENTS OF THE CONSTRUCTION CONTRACT.

4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FIELD SERVICE MAINTENANCE, AT NO COST TO THE OWNER, WITHIN 24 HOURS OF NOTIFICATION OF SYSTEM MALFUNCTION. THIS SERVICE RESPONSE SHALL BE IN EFFECT FOR A PERIOD OF 12 MONTHS AFTER THE OWNER ACCEPTANCE OF THE SYSTEM.

5. IF, DUE TO CONTRACTOR INSTALLATION-CAUSED MATTERS, THE LIGHTING DESIGN CONSULTANT IS REQUIRED TO PROVIDE EXTRA ONSITE DESIGN COORDINATION AND IMPLEMENTATION SERVICES AFTER THE OWNER APPROVED AND AGREED UPON SITE VISITS, THE CONTRACTOR MUST COMPENSATE THE LIGHTING DESIGN CONSULTANT AT THEIR STANDARD HOURLY OR DAILY RATES FOR ALL TIME EXPENDED ONSITE FOR ADDITIONAL PUNCH LIST NOTES, ADDITIONAL BACK CHECKS, EXTRA FOCUS AIMING WORK SESSIONS, OR EXTRA PROGRAMMING WORK SESSIONS.

D. THE ABOVE SCOPE OF WORK IS INTENDED AS A REFERENCE GUIDE ONLY AND IS NOT INTENDED TO DEFINE THE LIMITS OF THE WORK NECESSARY FOR A COMPLETE INSTALLATION. ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE PROPER OPERATION OF THE LIGHTING CONTROL SYSTEM MUST BE PROVIDED.

PART 2 - - LIGHTING CONTROL SYSTEM DESIGN INTENT

A. OVERALL SYSTEM DESCRIPTION

1. THE LIGHTING CONTROL SYSTEM WILL BE BASED AROUND A SYSTEM OF ONE OR MORE MAIN CONTROL STATIONS THAT INTEGRATE USER CONTROLS AND PROCESSORS. THE MAIN CONTROL STATIONS SHALL BE CAPABLE OF MANAGING ALL LIGHTING LEVELS AND RECALLABLE PRESETS AS WELL AS MANAGING ALL REMOTE CONTROL STATIONS, PROGRAMMING PORTS, AND AUXILIARY INPUTS, OUTPUTS AND OTHER INTERFACES TO THE SYSTEM.
2. ALL LIGHTING FIXTURES IN THE PUBLIC SPACES THAT ARE EQUIPPED WITH DIMMABLE DRIVERS OR SOURCES SHALL BE CONNECTED TO APPROPRIATE MODULES IN A DIMMING PANEL, CONNECTED TO THE LIGHTING CONTROL SYSTEM. NON-DIMMABLE LIGHTING FIXTURES IN THOSE SPACES SHALL BE CONNECTED TO RELAYS CONTROLLED BY THE SYSTEM.
3. THE CONTROL SYSTEM FOR THE FRONT-OF-HOUSE INTERIOR LIGHTING SHALL BE CAPABLE OF RECORDING ALL CONNECTED LIGHTING INTO RECALLABLE PRESETS, FOR MULTIPLE INDEPENDENTLY CONTROLLED AREAS. WITHIN EACH PRESET, EACH CONNECTED DIMMER IS TO BE PROGRAMMABLE TO A LEVEL SPECIFIC TO THAT INDIVIDUAL PRESET. EACH CONNECTED RELAY IS TO BE SWITCHABLE ON OR OFF WITHIN EACH PRESET.
4. THE CONTROL SYSTEM FOR THE FRONT-OF-HOUSE INTERIOR LIGHTING SHALL BE CAPABLE OF TRIGGERING SCHEDULED EVENTS FROM A REAL-TIME CLOCK AND RELATIVE TO SUNSET & SUNRISE.
5. A MAIN CONTROL STATION WILL BE PROVIDED AT A SPECIFIED LOCATION, OR AS A PART OF THE LIGHTING CONTROL EQUIPMENT RACK, FROM WHICH LIGHTING LEVELS CAN BE SET WITHOUT USE OF PORTABLE EQUIPMENT.
6. REMOTE CONTROL BUTTON STATIONS FOR THE FRONT-OF-HOUSE INTERIOR LIGHTING WILL BE PROVIDED AT LOCATIONS TO BE DETERMINED BY THE LIGHTING DESIGN CONSULTANT AND OWNER. THE PRIMARY CONTROL STATION WILL BE CAPABLE OF SELECTING LIGHTING PRESETS IN ALL AREAS OF THE FACILITY. THE SECONDARY CONTROL STATIONS SHALL BE CAPABLE OF CONTROLLING LIGHTING LEVELS AND SELECTING PRESETS IN SPECIFIC AREAS OF THE FACILITY.
7. AT MEETING ROOMS, A MAIN CONTROL UNIT WILL BE PROVIDED AT EACH DIVISIBLE SPACE TO ALLOW PRESET SELECTION, MANUAL LEVEL CHANGES, AND ROOM JOINING. REMOTE CONTROL BUTTON STATIONS WILL BE PROVIDED AT SELECTED SECONDARY ENTRY DOORS FOR PRESET SELECTION.
8. A MINIMUM OF ONE PROGRAMMING PORT WILL BE PROVIDED IN EVERY SPACE TO ALLOW FOR PROGRAMMING OF LIGHTING LEVELS AND FOR USE WITH MAINTENANCE & TROUBLESHOOTING.
9. THE CONTROL SYSTEM WILL BE PROVIDED WITH AUTOMATIC DAYLIGHT CONTROLS AND/OR OCCUPANT SENSING CONTROLS WHERE REQUIRED BY CODE. LIGHTING IN THE PUBLIC AREAS WILL BE CONFIGURED TO MAKE THE REQUIRED TRANSITIONS AS A FADE FOR THOSE LOADS CONNECTED TO DIMMERS, RATHER THAN AS AN INSTANTANEOUS CHANGE.
10. WHERE AUTOMATIC DAYLIGHT CONTROLS ARE REQUIRED BY APPLICABLE ENERGY CODES, LIGHTING FIXTURES IN DAY LIT ZONES SHALL BE CIRCUITED TO DIMMERS AND RELAYS SEPARATE FROM THOSE OUTSIDE OF DAY LIT ZONES.
11. THE CONTROLLER SHALL BE CAPABLE OF ACTIVATING EXTERIOR LIGHTING CIRCUITS ON IN RESPONSE TO AN ASTRONOMICAL CLOCK AND PHOTOCELL, AND OFF IN RESPONSE TO ASTRONOMICAL CLOCK, PHOTOCELL, AND SCHEDULED TIME THAT MAY BE DETERMINED BY THE OWNER.
12. THE CONTRACTOR WILL WORK WITH THE LIGHTING DESIGN CONSULTANT IN SETTING INITIAL LIGHTING LEVELS AS PRESETS AND TO ENSURE THAT THE PROGRAMMING OF THE SYSTEM WILL ALLOW THE END-USER TO MODIFY LEVELS, PRESETS, AND EVENT ACTIVATION BASED ON THE OWNER'S REQUIREMENTS.

B. SYSTEM COMPONENTS

1. PROVIDE MAIN CONTROL STATIONS THAT INTEGRATE A TOUCHSCREEN OR OTHER APPROVED USER INTERFACE WITH A LIGHTING CONTROL PROCESSOR. PORTABLE DEVICES OR THIRD-PARTY SERVICE SHALL NOT BE REQUIRED TO PROGRAM LIGHTING LEVELS VIA THE MAIN CONTROL STATIONS.
   a. MAIN CONTROL STATIONS SHALL BE PROVIDED WITH SUFFICIENT CAPACITY TO SUPPORT THE NUMBER OF CONTROL ZONES INDICATED ON THE DRAWINGS. A "ZONE" SHALL BE DEFINED AS A GROUP OF LIGHTS ON ONE OR MORE DIMMERS OR RELAYS, CONFIGURED TO OPERATE AS A SINGLE CONTROL CHANNEL.
   b. MAIN CONTROL STATIONS MAY BE PROVIDED AS AN ELECTRONICS MODULE INTEGRAL TO THE DIMMER AND RELAY PANELS. IN THIS CONFIGURATION, PROVIDE ADDITIONAL KEYPAD CONTROL STATIONS AT THE PLAN LOCATION INDICATED FOR THE MAIN CONTROL STATION.
   c. MAIN CONTROL STATIONS SHALL INCLUDE AN ASTRONOMICAL TIME CLOCK FOR SCHEDULED PRESET ACTIVATION AND AUTOMATIC SHUT-OFFS, AND SHALL SUPPORT HOLIDAY SCHEDULE EXCEPTIONS.
   d. MAIN CONTROL UNITS AT THE MEETING ROOMS SHALL SUPPORT ROOM JOINING, TRIGGERED BY MANUAL BUTTON PRESS.
2. PROVIDE MODULAR DIMMER AND RELAY PANELS FOR NEW LIGHTING LOADS. REFER TO LIGHTING DESIGN DRAWINGS AND ELECTRICAL DRAWINGS FOR LIGHTING CONTROL LOAD SCHEDULES AND CIRCUITRY REQUIREMENTS.
   a. PANELS SHALL BE AVAILABLE FOR FEED-THROUGH CONFIGURATION, OR WITH INTEGRAL BRANCH CIRCUIT PROTECTION. COORDINATE FEED TYPE WITH ELECTRICAL DRAWINGS.
   b. PANELS SHALL CONTAIN DIMMER/RELAY MODULES THAT DISCRETELY MULTIPLE CONTROL LEGS FROM A SINGLE BRANCH CIRCUIT BREAKER. THE SYSTEM SHALL SUPPORT FORWARD-PHASE AND REVERSE-PHASE (ELV) DIMMERS, 3-WIRE FLUORESCENT DIMMING, AND RELAY-SWITCHED MODULES. PROVIDE THE APPROPRIATE DIMMER MODULES AND SWITCH RELAY MODULES PER THE CONTROL PANEL SCHEDULE AND THE FINAL DESIGN PLANS.
   c. FOR CONTROL OF 0-10V LIGHTING FIXTURES, PROVIDE AN INTERFACE UNIT SPECIFICALLY DESIGNED TO PROVIDE 0-10V CONTROL FOR LIGHTING SYSTEMS. THE UNIT MAY BE INCORPORATED INTO THE DIMMING PANEL, OR MAY BE PROVIDED AS AN EXTERNAL GATEWAY.
3. PROVIDE PUSHBUTTON KEYPAD CONTROL STATIONS WITH STATUS LEDS FOR LOCAL CONTROL OF LIGHTING PRESETS PER THE LIGHTING DESIGN DRAWINGS AND ELECTRICAL DRAWINGS.
4. PROVIDE CONTROL RECEPTACLE STATIONS FOR SYSTEM CONFIGURATION.
5. WHERE REQUIRED BY APPLICABLE ENERGY CODES, PROVIDE AND CONFIGURE OCCUPANCY SENSORS:
6. WHERE AUTOMATIC DAYLIGHT CONTROLS ARE REQUIRED BY APPLICABLE ENERGY CODES, PROVIDE AND CONFIGURE DAYLIGHT SENSORS.
7. THE LIGHTING CONTROL SYSTEM SHALL BE DESIGNED TO ALLOW CONTROL OF THEATRICAL SPECIALTY LIGHTING AND ASSOCIATED SYSTEMS VIA MANUAL CONTROL AND TIME CLOCK CONTROL.
8. A DMX PLAYBACK CONTROLLER, SEPARATE FORM THE MAIN CONTROL SYSTEM, SHALL BE PROVIDED TO CONTROL THEATRICAL SPECIALTY LIGHTING.

C. BASIS OF DESIGN PRODUCTS

1. CRESTRON CAEN
   a. WALL MOUNTED TOUCHSCREENS
   b. WIRELESS REMOTE CONTROL APPS
   c. PUSHBUTTON LOCAL CONTROL STATIONS
   d. WIRELESS IR GATEWAYS AND RECEIVERS
   e. DMX INTERFACE DEVICES
   f. 0-10V INTERFACE DEVICES
   g. RESPONSIVE CONTROLS (OCCUPANCY/VACANCY SENSORS, LIGHT SENSORS)
2. ETC TESSERA PANEL CONTROLLER (FOR SPECIALTY THEATRICAL LIGHTING FIXTURES)
3. APPROVED ALTERNATES
   a. ETC ECHO WITH EXPANSION BRIDGE AND PARADIGM UNISON CONTROLS
   b. ACUITY CONTROLS FRESCO WITH LMP DIMMING AND RELAY PANELS

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LIGHTING DESIGNERS + THEATRE CONSULTANTS

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FOR LIGHTING DESIGN INFORMATION ONLY

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
LIGHTING CONTROL REQUIREMENTS

Sheet No.
2LT-0.11

LIGHTING CONTROL ZONE SCHEDULE

ZONE #	PANEL (FROM EE)	CIRC (FROM EE)	ZONE LOCATION	PURPOSE	CONTROL PROGRAM ZONE LABEL	FIXTURE TYPE	FIXTURE QTY	INPUT WATTS (EACH OR PER FOOT)	ZONE LOAD	SOURCE TYPE	FIXTURE VOLTAGE	POWER METHOD	CONTROL METHOD	ZONE NOTES
1			1ST LEVEL LOBBY	ILLUMINATED HANDRAIL		L5	142	5	653	INTEGRAL LED	120V PRIMARY/ 24V SECONDARY	RELAY	0-10V	
2			1ST LEVEL LOBBY	DECORATIVE WALL SCONCE		W2	2	28	56	INTEGRAL LED	120/277V		VERIFY WITH MANUFACTURER	
3			1ST LEVEL LOBBY	DECORATIVE WALL SCONCE		W2	1	28	28	INTEGRAL LED	120/277V		VERIFY WITH MANUFACTURER	
4			1ST LEVEL REGISTRATION DESK	DESK DIE		L3	18	3	45	INTEGRAL LED	120V PRIMARY/ 24V SECONDARY	DIMMER	MAGNETIC LOW VOLTAGE/ FORWARD PHASE	
5			1ST LEVEL LOBBY	SPARE TBD										
6			1ST LEVEL BRIDGE	GENERAL ILLUMINATION		L2	94	5	470	INTEGRAL LED	120/277V	RELAY	0-10V	
7			1ST LEVEL LOBBY	GENERAL ILLUMINATION		D1WA	10	21	210	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
						D1N	1	21	21	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
8			1ST LEVEL REGISTRATION DESK	REGISTRATION WALL WASH		L1	21	8	168	INTEGRAL LED	120/277V	RELAY	0-10V	
9			1ST LEVEL REGISTRATION DESK	REGISTRATION DESK TASK		D1N	4	21	84	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
10			1ST LEVEL REGISTRATION DESK	DECORATIVE PENDANT		DP4	3	3	9	INTEGRAL LED	120/277V	RELAY	RELAY (NON-DIM)	
11			1ST LEVEL COORIDOR	COORIDOR ACCENT		D2	4	11	44	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
12			1ST LEVEL COORIDOR	COORIDOR ACCENT		D2	7	11	77	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
13			1ST LEVEL COORIDOR	GENERAL ILLUMINATION		D1WA	22	21	462	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
14			1ST LEVEL MPR	GENERAL DOWNLIGHT		D3NA	30	10	300	INTEGRAL LED	120/277V	RELAY	0-10V	
15			1ST LEVEL MPR	BACKLIT METAL		L4	432	5	1944	INTEGRAL LED	120V PRIMARY/ 24V SECONDARY	DIMMER	MAGNETIC LOW VOLTAGE/ FORWARD PHASE	
16			1ST LEVEL MPR	SPARE TBD										
17			1ST LEVEL MPR	GENERAL DOWNLIGHT		D3NA	25	10	250	INTEGRAL LED	120/277V	RELAY	0-10V	
18			1ST LEVEL MPR	BACKLIT METAL		L4	194	5	873	INTEGRAL LED	120V PRIMARY/ 24V SECONDARY	DIMMER	MAGNETIC LOW VOLTAGE/ FORWARD PHASE	
19			1ST LEVEL MPR	SPARE TBD										
20			1ST LEVEL MPR	GENERAL DOWNLIGHT		D3NA	20	10	200	INTEGRAL LED	120/277V	RELAY	0-10V	
21			1ST LEVEL MPR	BACKLIT METAL		L4	37	5	167	INTEGRAL LED	120V PRIMARY/ 24V SECONDARY	DIMMER	MAGNETIC LOW VOLTAGE/ FORWARD PHASE	
22			1ST LEVEL MPR	SPARE TBD										
23			1ST LEVEL SERVERY	GENERAL ILLUMINATION		D3NB	14	10	140	INTEGRAL LED	120/277V	RELAY	0-10V	
24			1ST LEVEL SERVERY	DECORATIVE PENDANT		DP1A	3	36	108	COMPACT FLUORESCENT	120V	RELAY	0-10V	
						DP1B	3	54	162	COMPACT FLUORESCENT	120V	RELAY	0-10V	
						DP1C	4	54	216	COMPACT FLUORESCENT	120V	RELAY	0-10V	
						DP1D	4	54	216	COMPACT FLUORESCENT	120V	RELAY	0-10V	
						DP1E	4	26	104	COMPACT FLUORESCENT	120V	RELAY	0-10V	
25			1ST LEVEL EXTERIOR CANOPY	GENERAL ILLUMINATION		D3NC	11	10	110	INTEGRAL LED	120/277V	RELAY	0-10V	
26				SPARE										
27			2ND LEVEL WELLNESS LOUNGE	SCONCE DOOR ILLUMINATION		W1	4	25	100	INTEGRAL LED	120/277V	RELAY	0-10V	
28			2ND LEVEL WELLNESS LOUNGE	DECORATIVE SCONCE AT ELEVATOR		W2	1	28	28	INTEGRAL LED	120/277V		VERIFY WITH MANUFACTURER	
29			2ND LEVEL WELLNESS LOUNGE	DECORATIVE SCONCE		W2	2	28	56	INTEGRAL LED	120/277V		VERIFY WITH MANUFACTURER	
30			2ND LEVEL WELLNESS LOUNGE	GENERAL ILLUMINATION		D1WA	5	21	105	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
						D1N	1	21	21	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
31			3RD LEVEL COORIDOR	DECORATIVE SCONCE AT ELEVATOR		W2	1	28	28	INTEGRAL LED	120/277V		VERIFY WITH MANUFACTURER	
32			3RD LEVEL COORIDOR	GENERAL ILLUMINATION		D1WA	5	21	105	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
						D1N	1	21	21	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
33			3RD LEVEL CONFERENCE	GENERAL ILLUMINATION		D3ND	4	10	40	INTEGRAL LED	120/277V	RELAY	0-10V	
34			3RD LEVEL CONFERENCE	DECORATIVE PENDANT		DP2	1	40	40	INTEGRAL LED	120V		VERIFY WITH MANUFACTURER	
35			4TH LEVEL COORIDOR	DECORATIVE SCONCE AT ELEVATOR		W2	1	28	28	INTEGRAL LED	120/277V		VERIFY WITH MANUFACTURER	
36			4TH LEVEL COORIDOR	GENERAL ILLUMINATION		D1WA	3	21	63	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
						D1N	1	21	21	INTEGRAL LED	120V	DIMMER	ELECTRONIC LOW VOLTAGE/ REVERSE PHASE	
37			4TH FLOOR BREAK ROOM	UNDER CABINET LIGHT		L3	9	3	23	INTEGRAL LED	120V PRIMARY/ 24V SECONDARY	DIMMER	MAGNETIC LOW VOLTAGE/ FORWARD PHASE	
38			4TH FLOOR BREAK ROOM	GENERAL ILLUMINATION		L6	8	13	104	INTEGRAL LED	120/277V	RELAY	0-10V	
						L7	4	13	52	INTEGRAL LED	120/277V	RELAY	0-10V	
39			4TH FLOOR BREAK ROOM	DECORATIVE PENDANT		DP2	4	40	160	INTEGRAL LED	120V		VERIFY WITH MANUFACTURER	

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GENE THEORY - CP-2
VOLUME 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM 2.2
10.03.17

Sheet Title
LIGHTING CONTROL SCHEDULE

Sheet No.
2LT-0.12

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GENERAL SHEET NOTES

1. VERIFY MOUNTING LOCATIONS AND HEIGHTS OF ALL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
2. ALL FIXTURE AND CONTROL LOCATIONS MUST BE VERIFIED BY THE LIGHTING CONSULTANT AT THE JOBSITE PRIOR TO ROUGH-IN.
3. CONTROL LOOPING INDICATES CONTROL ZONE DESIGN INTENT ONLY. REFER TO ELECTRICAL DRAWINGS FOR DIMMING, SWITCHING AND CIRCUITRY INFORMATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND EQUIPMENT THAT IS NECESSARY FOR THE FOCUS AIMING OF ADJUSTABLE LIGHTING FIXTURES AND THE PROGRAMMING OF LIGHTING PRESETS OR EFFECTS PER THE DIRECTION OF THE LIGHTING DESIGN CONSULTANT.
5. ELECTRICAL CONTRACTOR, FIXTURE SUPPLIER, AND LAMP SUPPLIER MUST VERIFY THAT ALL LED LAMPS ARE COMPATIBLE WITH FIXTURE TRIM HOUSINGS, LAMP SOCKETS, LOW VOLTAGE TRANSFORMERS, AND ELECTRICAL DIMMING SYSTEMS PRIOR TO PLACING ANY LIGHTING EQUIPMENT ORDERS AFTER FIXTURE SHOP DRAWING SUBMITTALS ARE APPROVED. LAMPS SHOULD BE OPERABLE AT FULL OR DIMMED INTENSITY WITH NO VISUALLY PERCEIVED FLICKERING WHEN ALL LAMPS ON THE CIRCUIT ARE ENERGIZED.

KEYNOTES

A. NOT ALL KEYNOTES WILL BE USED ON EVERY PAGE.
B. MEASUREMENTS ARE FOR PRICING ESTIMATES ONLY, CONTRACTOR TO VERIFY LENGTHS WITH FIELD MEASUREMENTS PRIOR TO PURCHASING.

1. TYPE UU1 - RECESSED INGRADE UPLIGHTS FOR FLAG POLES. (2) LIGHTS PER POLE. FINAL POLE LOCATIONS TO BE CONFIRMED PRIOR TO INSTALLATION.
2. TYPE AA3 - FIXTURE TO BE MOUNTED WITHIN PLANTER TO ILLUMINATE LANDSCAPING.
3. TYPE LL2 - FIXTURE TO BE INTEGRATED INTO THE LOW CURB TO ILLUMINATE THE DECK. REFER TO LANDSCAPE PLANS FOR MOUNTING DETAILS.
4. LOW VOLTAGE REMOTE POWER SUPPLY TO BE MOUNTED IN A CONCEALED, DRY, WELL VENTILATED, LOCATION WITHIN MANUFACTURER RECOMMENDED DISTANCES AND WITHIN CODE REQUIRED NEMA RATED ENCLOSURE. CONTRACTOR TO ENSURE PROPER WIRE GAUGE AND DISTANCE USED TO SUPPLY 12V OR 24V AT EACH FIXTURE (REFER TO FIXTURE SCHEDULE FOR VOLTAGE REQUIREMENTS FOR EACH FIXTURE). TRANSFORMER LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
5. NOT USED.
6. TYPE SL1 - FIXTURE TO BE RECESSED IN WALL AT +18" CENTERS AFF.
7. TYPE L2 - FIXTURE TO CONTINUE FROM INTERIOR ATRIUM BRIDGE TO EXTERIOR BRIDGE WITH BREAK AT DOORWAY. FIXTURE TO BE RECESSED IN UNDERSIDE OF BRIDGE.
8. TYPE L5 - ILLUMINATED HANDRAIL FIXTURE TO CONTINUE FROM INTERIOR ATRIUM BRIDGE TO EXTERIOR BRIDGE WITH BREAK AT DOORWAY.
9. TYPE WW1 - PROVIDE POWER FOR LIGHTING AT TRELLIS SHADE STRUCTURE. QTY (5) FIXTURES TO BE AFFIXED TO UPPER PORTION OF STRUCTURE TO ILLUMINATE SEATING AREA BELOW. FINAL MOUNTING LOCATION PENDING FINAL STRUCTURE DESIGN. POWER RUNS TO BE CONCEALED WITHIN STRUCTURE.
10. PROVIDE POWER AND DATA AT PROJECTION LOCATION FOR (2) THEATRICAL LIGHTING FIXTURES, TYPE TL-1. FIXTURES TO HAVE ABILITY TO BE TIED INTO PROJECTION CONTROL SYSTEM. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS AND CONTROL BOD FOR CONTROL REQUIREMENTS.
11. PROVIDE POWER AND DATA ABOVE DOOR FOR (2) THEATRICAL LIGHTING FIXTURES, TYPE TL-2, AND (1) THEATRICAL LIGHTING FIXTURE, TYPE TL-1. FIXTURES TO HAVE ABILITY TO BE TIED INTO PROJECTION CONTROL SYSTEM. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS AND CONTROL BOD FOR CONTROL REQUIREMENTS.
12. TYPE L4 - FIXTURES TO BE SURFACE MOUNTED TO HARDLID CEILING ABOVE DECORATIVE DROPPED CEILING. REFER TP ARCHITECTURAL PLANS FOR MOUNTING LOCATIONS AND DETAILS.
13. TYPE L1 - FIXTURE TO BE MOUNTED AT BACK WALL OF COVE MASKED FROM SIGHT TO BOUNCE LIGHT DOWN SIGNAGE WALL. FIXTURE TO BE ORIENTED AND FOCUSED AT WALL.
14. TYPE L5 - ILLUMINATED HANDRAIL FIXTURE TO BE INTEGRATED INTO ARCHITECTURAL STEEL RAILING SYSTEM. REFER TO ARCHITECTURAL SET FOR MOUNTING CONDITIONS.
15. TYPE L3 - FIXTURE TO BE RECESSED UNDER LIP OF REGISTRATION DESK TO WASH DOWN THE FACE.
16. TYPE LL5 - LINEAR FIXTURES TO BE RECESSED IN TOP STEP OF SEATING AREA. FIXTURE TO BE 12" AWAY FROM BACK WALL TO WASH UP GREEN WALL.

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FOR LIGHTING DESIGN INFORMATION ONLY

1 / 2LT-100 OVERALL SITE LIGHTING PLAN
1"=30'
BAR IS 3" LONG WHEN PRINTED AT FULL SCALE

GENE THEORY - CP-2
VOLUME 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
OVERALL SITE LIGHTING PLAN

Sheet No. 2.2
2LT-100

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

7/26/2017 4:14:23 PM
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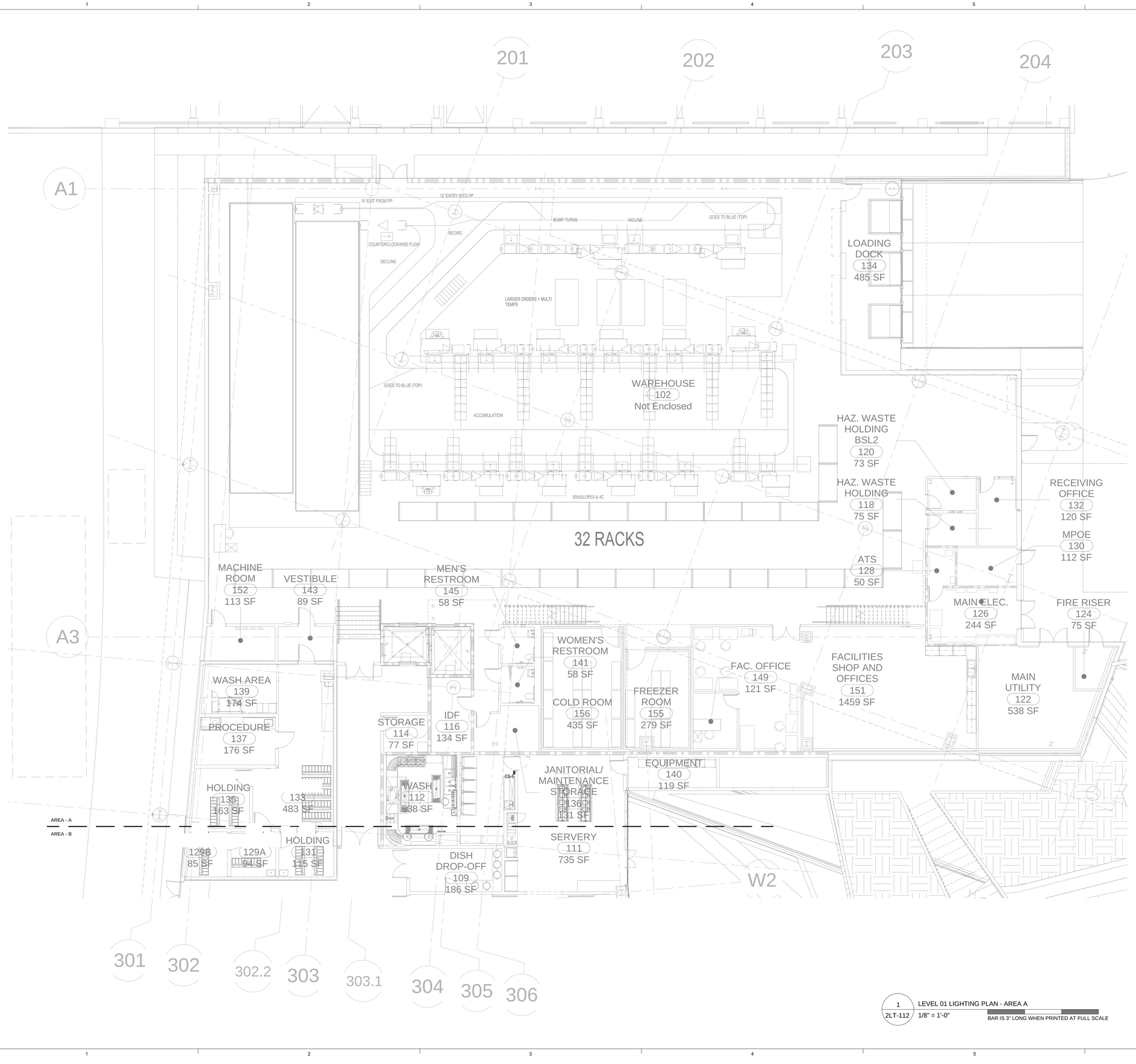

1 LEVEL 01 LIGHTING PLAN - AREA A
2LT-112 1/8" = 1'-0"
BAR IS 3" LONG WHEN PRINTED AT FULL SCALE

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4. LOW VOLTAGE REMOTE POWER SUPPLY TO BE MOUNTED IN A CONCEALED, DRY, WELL VENTILATED, LOCATION WITHIN MANUFACTURER RECOMMENDED DISTANCES AND WITHIN CODE REQUIRED NEMA RATED ENCLOSURE. CONTRACTOR TO ENSURE PROPER WIRE GAUGE AND DISTANCE USED TO SUPPLY 12V OR 24V AT EACH FIXTURE (REFER TO FIXTURE SCHEDULE FOR VOLTAGE REQUIREMENTS FOR EACH FIXTURE). TRANSFORMER LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
5. TYPE AA2 - (2) FIXTURES TO BE AFFIXED TO CONCRETE EXTENSION AT GREEN ROOF. FIXTURES TOP BE STACKED VERTICALLY. FIXTURES TO BE ADJUSTABLE TO WASH ACROSS GREEN WALL.
6. TYPE SL1 - FIXTURE TO BE RECESSED IN WALL AT +18" CENTERS AFF.
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9. TYPE WW1 - PROVIDE POWER FOR LIGHTING AT TRELLIS SHADE STRUCTURE. QTY (5). FIXTURES TO BE AFFIXED TO UPPER PORTION OF STRUCTURE TO ILLUMINATE SEATING AREA BELOW. FINAL MOUNTING LOCATION PENDING FINAL STRUCTURE DESIGN. POWER RUNS TO BE CONCEALED WITHIN STRUCTURE.
10. PROVIDE POWER AND DATA AT PROJECTION LOCATION FOR (2) THEATRICAL LIGHTING FIXTURES, TYPE TL-1. FIXTURES TO HAVE ABILITY TO BE TIED INTO PROJECTION CONTROL SYSTEM. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS AND CONTROL BOD FOR CONTROL REQUIREMENTS.
11. PROVIDE POWER AND DATA ABOVE DOOR FOR (2) THEATRICAL LIGHTING FIXTURES, TYPE TL-2, AND (1) THEATRICAL LIGHTING FIXTURE, TYPE TL-1. FIXTURES TO HAVE ABILITY TO BE TIED INTO PROJECTION CONTROL SYSTEM. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS AND CONTROL BOD FOR CONTROL REQUIREMENTS.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

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LIGHTING DESIGNERS + THEATRE CONSULTANTS

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ALL EQUIPMENT ATTACHMENT DETAILS AND STRUCTURAL LOAD CALCULATIONS MUST BE PROVIDED BY A LICENSED STRUCTURAL ENGINEER.

FOR LIGHTING DESIGN INFORMATION ONLY

CITY SUBMITTAL SET
08.08.17

Sheet Title

LEVEL 01 LIGHTING PLAN - AREA A

Sheet No.

2LT-112

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1 / 2LT-113 LEVEL 01 LIGHTING PLAN - AREA B

1/8" = 1'-0"

BAR IS 3" LONG WHEN PRINTED AT FULL SCALE

GENERAL SHEET NOTES

1. VERIFY MOUNTING LOCATIONS AND HEIGHTS OF ALL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
2. ALL FIXTURE AND CONTROL LOCATIONS MUST BE VERIFIED BY THE LIGHTING CONSULTANT AT THE JOBSITE PRIOR TO ROUGH-IN.
3. CONTROL LOOPING INDICATES CONTROL ZONE DESIGN INTENT ONLY. REFER TO ELECTRICAL DRAWINGS FOR DIMMING, SWITCHING AND CIRCUITRY INFORMATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND EQUIPMENT THAT IS NECESSARY FOR THE FOCUS AIMING OF ADJUSTABLE LIGHTING FIXTURES AND THE PROGRAMMING OF LIGHTING PRESETS OR EFFECTS PER THE DIRECTION OF THE LIGHTING DESIGN CONSULTANT.
5. ELECTRICAL CONTRACTOR, FIXTURE SUPPLIER, AND LAMP SUPPLIER MUST VERIFY THAT ALL LED LAMPS ARE COMPATIBLE WITH FIXTURE TRIM HOUSINGS, LAMP SOCKETS, LOW VOLTAGE TRANSFORMERS, AND ELECTRICAL DIMMING SYSTEMS PRIOR TO PLACING ANY LIGHTING EQUIPMENT ORDERS AFTER FIXTURE SHOP DRAWING SUBMITTALS ARE APPROVED. LAMPS SHOULD BE OPERABLE AT FULL OR DIMMED INTENSITY WITH NO VISUALLY PERCEIVED FLICKERING WHEN ALL LAMPS ON THE CIRCUIT ARE ENERGIZED.

KEYNOTES

A. NOT ALL KEYNOTES WILL BE USED ON EVERY PAGE.
B. MEASUREMENTS ARE FOR PRICING ESTIMATES ONLY, CONTRACTOR TO VERIFY LENGTHS WITH FIELD MEASUREMENTS PRIOR TO PURCHASING.

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2. TYPE AA3 - FIXTURE TO BE MOUNTED WITHIN PLANTER TO ILLUMINATE LANDSCAPING.
3. TYPE LL2 - FIXTURE TO BE INTEGRATED INTO THE LOW CURB TO ILLUMINATE THE DECK. REFER TO LANDSCAPE PLANS FOR MOUNTING DETAILS.
4. LOW VOLTAGE REMOTE POWER SUPPLY TO BE MOUNTED IN A CONCEALED, DRY, WELL VENTILATED, LOCATION WITHIN MANUFACTURER RECOMMENDED DISTANCES AND WITHIN CODE REQUIRED NEMA RATED ENCLOSURE. CONTRACTOR TO ENSURE PROPER WIRE GAUGE AND DISTANCE USED TO SUPPLY 12V OR 24V AT EACH FIXTURE (REFER TO FIXTURE SCHEDULE FOR VOLTAGE REQUIREMENTS FOR EACH FIXTURE). TRANSFORMER LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
5. NOT USED.
6. TYPE SL1 - FIXTURE TO BE RECESSED IN WALL AT +18" CENTERS AFF.
7. TYPE L2 - FIXTURE TO CONTINUE FROM INTERIOR ATRIUM BRIDGE TO EXTERIOR BRIDGE WITH BREAK AT DOORWAY. FIXTURE TO BE RECESSED IN UNDERSIDE OF BRIDGE.
8. TYPE L5 - ILLUMINATED HANDRAIL FIXTURE TO CONTINUE FROM INTERIOR ATRIUM BRIDGE TO EXTERIOR BRIDGE WITH BREAK AT DOORWAY.
9. TYPE WW1 - PROVIDE POWER FOR LIGHTING AT TRELLIS SHADE STRUCTURE. QTY (5) FIXTURES TO BE AFFIXED TO UPPER PORTION OF STRUCTURE TO ILLUMINATE SEATING AREA BELOW. FINAL MOUNTING LOCATION PENDING FINAL STRUCTURE DESIGN. POWER RUNS TO BE CONCEALED WITHIN STRUCTURE.
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11. PROVIDE POWER AND DATA ABOVE DOOR FOR (2) THEATRICAL LIGHTING FIXTURES, TYPE TL-2, AND (1) THEATRICAL LIGHTING FIXTURE, TYPE TL-1. FIXTURES TO HAVE ABILITY TO BE TIED INTO PROJECTION CONTROL SYSTEM. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS AND CONTROL BOD FOR CONTROL REQUIREMENTS.
12. TYPE L4 - FIXTURES TO BE SURFACE MOUNTED TO HARDLID CEILING ABOVE DECORATIVE DROPPED CEILING. REFER TP ARCHITECTURAL PLANS FOR MOUNTING LOCATIONS AND DETAILS.
13. TYPE L1 - FIXTURE TO BE MOUNTED AT BACK WALL OF COVE MASKED FROM SIGHT TO BOUNCE LIGHT DOWN SIGNAGE WALL. FIXTURE TO BE ORIENTED AND FOCUSED AT WALL.
14. TYPE L5 - ILLUMINATED HANDRAIL FIXTURE TO BE INTEGRATED INTO ARCHITECTURAL STEEL RAILING SYSTEM. REFER TO ARCHITECTURAL SET FOR MOUNTING CONDITIONS.
15. TYPE L3 - FIXTURE TO BE RECESSED UNDER LIP OF REGISTRATION DESK TO WASH DOWN THE FACE.
16. TYPE LL5 - LINEAR FIXTURES TO BE RECESSED IN TOP STEP OF SEATING AREA. FIXTURE TO BE 12" AWAY FROM BACK WALL TO WASH UP GREEN WALL.

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FOR LIGHTING DESIGN INFORMATION ONLY

GENE THEORY - CP-2
VOLUME 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM 2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1IFC

ADDENDUM 2.2
10.03.17

Sheet Title

LEVEL 01 LIGHTING PLAN - AREA B

Sheet No.

2LT-113

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

7/26/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 LEVEL 01 LIGHTING RCP - AREA A
2LT-114 1/8" = 1'-0"
BAR IS 3" LONG WHEN PRINTED AT FULL SCALE

GENERAL SHEET NOTES

1. VERIFY MOUNTING LOCATIONS AND HEIGHTS OF ALL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
2. ALL FIXTURE AND CONTROL LOCATIONS MUST BE VERIFIED BY THE LIGHTING CONSULTANT AT THE JOBSITE PRIOR TO ROUGH-IN.
3. CONTROL LOOPING INDICATES CONTROL ZONE DESIGN INTENT ONLY. REFER TO ELECTRICAL DRAWINGS FOR DIMMING, SWITCHING AND CIRCUITRY INFORMATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND EQUIPMENT THAT IS NECESSARY FOR THE FOCUS AIMING OF ADJUSTABLE LIGHTING FIXTURES AND THE PROGRAMMING OF LIGHTING PRESETS OR EFFECTS PER THE DIRECTION OF THE LIGHTING DESIGN CONSULTANT.
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KEYNOTES

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5. TYPE AA2 - (2) FIXTURES TO BE AFFIXED TO CONCRETE EXTENSION AT GREEN ROOF. FIXTURES TOP BE STACKED VERTICALLY. FIXTURES TO BE ADJUSTABLE TO WASH ACROSS GREEN WALL.
6. TYPE SL1 - FIXTURE TO BE RECESSED IN WALL AT +18" CENTERS AFF.
7. TYPE L2 - FIXTURE TO CONTINUE FROM INTERIOR ATRIUM BRIDGE TO EXTERIOR BRIDGE WITH BREAK AT DOORWAY. FIXTURE TO BE RECESSED IN UNDERSIDE OF BRIDGE.
8. TYPE L5 - ILLUMINATED HANDRAIL FIXTURE TO CONTINUE FROM INTERIOR ATRIUM BRIDGE TO EXTERIOR BRIDGE WITH BREAK AT DOORWAY.
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10. PROVIDE POWER AND DATA AT PROJECTION LOCATION FOR (2) THEATRICAL LIGHTING FIXTURES, TYPE TL-1. FIXTURES TO HAVE ABILITY TO BE TIED INTO PROJECTION CONTROL SYSTEM. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS AND CONTROL BOD FOR CONTROL REQUIREMENTS.
11. PROVIDE POWER AND DATA ABOVE DOOR FOR (2) THEATRICAL LIGHTING FIXTURES, TYPE TL-2, AND (1) THEATRICAL LIGHTING FIXTURE, TYPE TL-1. FIXTURES TO HAVE ABILITY TO BE TIED INTO PROJECTION CONTROL SYSTEM. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS AND CONTROL BOD FOR CONTROL REQUIREMENTS.

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FOR LIGHTING DESIGN INFORMATION ONLY

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
LEVEL 01 LIGHTING RCP - AREA A

Sheet No.
2LT-114

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



1 2LT-115 LEVEL 01 LIGHTING RCP - AREA B

1/8" = 1'-0" BAR IS 3" LONG WHEN PRINTED AT FULL SCALE

GENERAL SHEET NOTES

1. VERIFY MOUNTING LOCATIONS AND HEIGHTS OF ALL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
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4. LOW VOLTAGE REMOTE POWER SUPPLY TO BE MOUNTED IN A CONCEALED, DRY, WELL VENTILATED, LOCATION WITHIN MANUFACTURER RECOMMENDED DISTANCES AND WITHIN CODE REQUIRED NEMA RATED ENCLOSURE. CONTRACTOR TO ENSURE PROPER WIRE GAUGE AND DISTANCE USED TO SUPPLY 12V OR 24V AT EACH FIXTURE (REFER TO FIXTURE SCHEDULE FOR VOLTAGE REQUIREMENTS FOR EACH FIXTURE). TRANSFORMER LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
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6. TYPE SL1 - FIXTURE TO BE RECESSED IN WALL AT +18" CENTERS AFF.
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9. TYPE WW1 - PROVIDE POWER FOR LIGHTING AT TRELLIS SHADE STRUCTURE. QTY (5) FIXTURES TO BE AFFIXED TO UPPER PORTION OF STRUCTURE TO ILLUMINATE SEATING AREA BELOW. FINAL MOUNTING LOCATION PENDING FINAL STRUCTURE DESIGN. POWER RUNS TO BE CONCEALED WITHIN STRUCTURE.
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13. TYPE L1 - FIXTURE TO BE MOUNTED AT BACK WALL OF COVE MASKED FROM SIGHT TO BOUNCE LIGHT DOWN SIGNAGE WALL. FIXTURE TO BE ORIENTED AND FOCUSED AT WALL.
14. TYPE L5 - ILLUMINATED HANDRAIL FIXTURE TO BE INTEGRATED INTO ARCHITECTURAL STEEL RAILING SYSTEM. REFER TO ARCHITECTURAL SET FOR MOUNTING CONDITIONS.
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GENE THEORY - CP-2
VOLUME 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

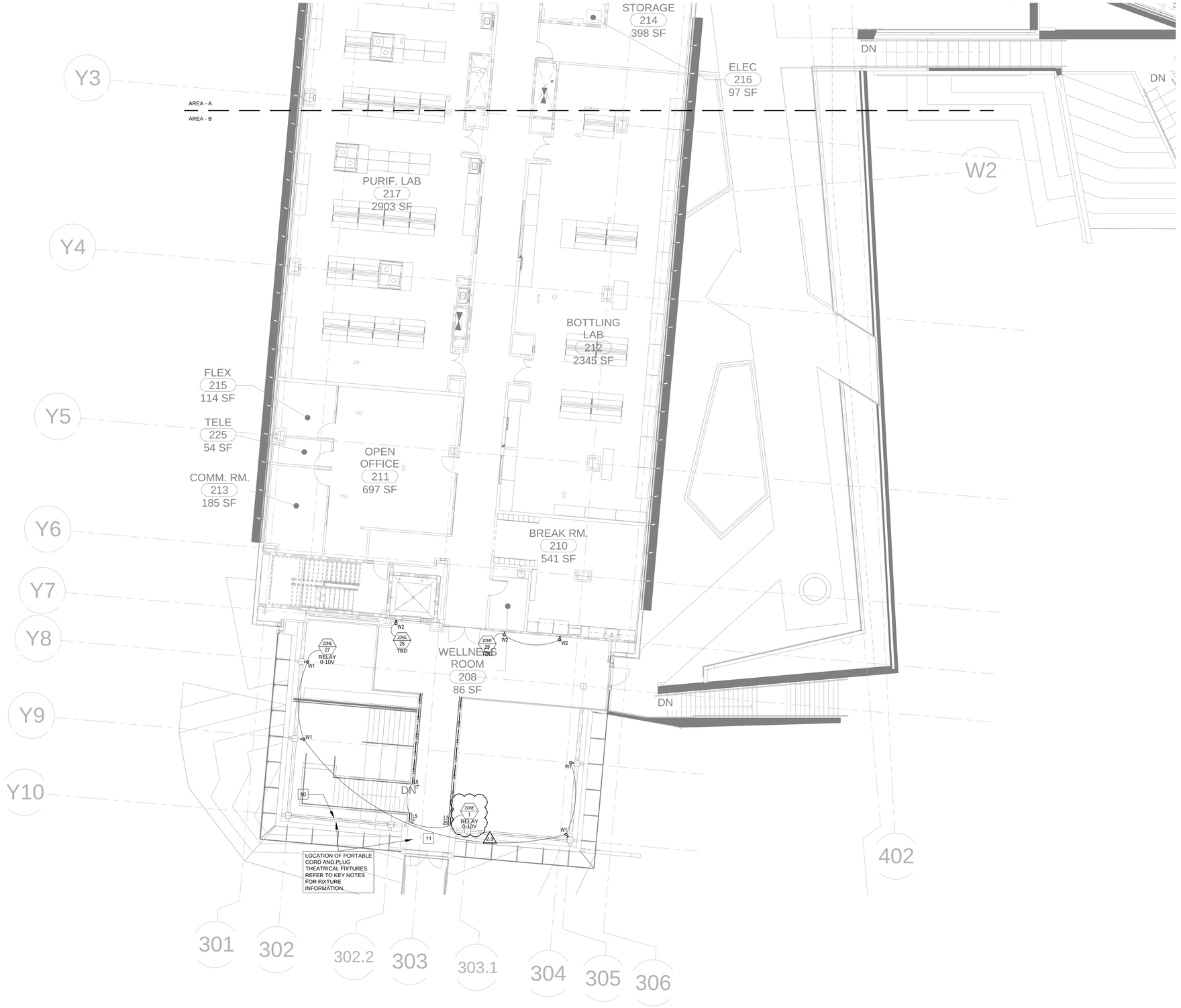
ADDENDUM 2.2
10.03.17

Sheet Title
LEVEL 01 LIGHTING RCP - AREA B

Sheet No.
2LT-115

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



1 / 2LT-122 — LEVEL 02 LIGHTING PLAN - AREA B
1/8" = 1'-0"
BAR IS 3" LONG WHEN PRINTED AT FULL SCALE

GENERAL SHEET NOTES

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11. PROVIDE POWER AND DATA ABOVE DOOR FOR (2) THEATRICAL LIGHTING FIXTURES, TYPE TL-2, AND (1) THEATRICAL LIGHTING FIXTURE, TYPE TL-1. FIXTURES TO HAVE ABILITY TO BE TIED INTO PROJECTION CONTROL SYSTEM. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS AND CONTROL BOD FOR CONTROL REQUIREMENTS.
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13. TYPE L1 - FIXTURE TO BE MOUNTED AT BACK WALL OF COVE MASKED FROM SIGHT TO BOUNCE LIGHT DOWN SIGNAGE WALL. FIXTURE TO BE ORIENTED AND FOCUSED AT WALL.
14. TYPE L5 - ILLUMINATED HANDRAIL FIXTURE TO BE INTEGRATED INTO ARCHITECTURAL STEEL RAILING SYSTEM. REFER TO ARCHITECTURAL SET FOR MOUNTING CONDITIONS.
15. TYPE L3 - FIXTURE TO BE RECESSED UNDER LIP OF REGISTRATION DESK TO WASH DOWN THE FACE.
16. TYPE LL5 - LINEAR FIXTURES TO BE RECESSED IN TOP STEP OF SEATING AREA. FIXTURE TO BE 12" AWAY FROM BACK WALL TO WASH UP GREEN WALL.

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LIGHTING DESIGNERS + THEATRE CONSULTANTS

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FOR LIGHTING DESIGN INFORMATION ONLY

GENE THEORY -
CP-2
VOLUME 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM 2.1
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM 2.2
10.03.17

Sheet Title
LEVEL 02
LIGHTING PLAN
- AREA B

Sheet No.
2LT-122

7/26/2017 4:14:23 PM
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1 / 2LT-123 LEVEL 02 LIGHTING RCP - AREA B

1/8" = 1'-0" BAR IS 3" LONG WHEN PRINTED AT FULL SCALE

GENERAL SHEET NOTES

1. VERIFY MOUNTING LOCATIONS AND HEIGHTS OF ALL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
2. ALL FIXTURE AND CONTROL LOCATIONS MUST BE VERIFIED BY THE LIGHTING CONSULTANT AT THE JOBSITE PRIOR TO ROUGH-IN.
3. CONTROL LOOPING INDICATES CONTROL ZONE DESIGN INTENT ONLY. REFER TO ELECTRICAL DRAWINGS FOR DIMMING, SWITCHING AND CIRCUITRY INFORMATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND EQUIPMENT THAT IS NECESSARY FOR THE FOCUS AIMING OF ADJUSTABLE LIGHTING FIXTURES AND THE PROGRAMMING OF LIGHTING PRESETS OR EFFECTS PER THE DIRECTION OF THE LIGHTING DESIGN CONSULTANT.
5. ELECTRICAL CONTRACTOR, FIXTURE SUPPLIER, AND LAMP SUPPLIER MUST VERIFY THAT ALL LED LAMPS ARE COMPATIBLE WITH FIXTURE TRIM HOUSINGS, LAMP SOCKETS, LOW VOLTAGE TRANSFORMERS, AND ELECTRICAL DIMMING SYSTEMS PRIOR TO PLACING ANY LIGHTING EQUIPMENT ORDERS AFTER FIXTURE SHOP DRAWING SUBMITTALS ARE APPROVED. LAMPS SHOULD BE OPERABLE AT FULL OR DIMMED INTENSITY WITH NO VISUALLY PERCEIVED FLICKERING WHEN ALL LAMPS ON THE CIRCUIT ARE ENERGIZED.

KEYNOTES

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3. TYPE LL2 - FIXTURE TO BE INTEGRATED INTO THE LOW CURB TO ILLUMINATE THE DECK. REFER TO LANDSCAPE PLANS FOR MOUNTING DETAILS.
4. LOW VOLTAGE REMOTE POWER SUPPLY TO BE MOUNTED IN A CONCEALED, DRY, WELL VENTILATED, LOCATION WITHIN MANUFACTURER RECOMMENDED DISTANCES AND WITHIN CODE REQUIRED NEMA RATED ENCLOSURE. CONTRACTOR TO ENSURE PROPER WIRE GAUGE AND DISTANCE USED TO SUPPLY 12V OR 24V AT EACH FIXTURE (REFER TO FIXTURE SCHEDULE FOR VOLTAGE REQUIREMENTS FOR EACH FIXTURE). TRANSFORMER LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
5. TYPE AA2 - (2) FIXTURES TO BE AFFIXED TO CONCRETE EXTENSION AT GREEN ROOF. FIXTURES TOP BE STACKED VERTICALLY. FIXTURES TO BE ADJUSTABLE TO WASH ACROSS GREEN WALL.
6. TYPE SL1 - FIXTURE TO BE RECESSED IN WALL AT +18" CENTERS AFF.
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GENE THEORY - CP-2

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PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

LEVEL 02 LIGHTING RCP - AREA B

Sheet No.

2LT-123

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



1 LEVEL 03 LIGHTING PLAN - AREA B
2LT-132 1/8" = 1'-0"
BAR IS 3" LONG WHEN PRINTED AT FULL SCALE

GENERAL SHEET NOTES

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GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
LEVEL 03 LIGHTING PLAN - AREA B

Sheet No.
2LT-132

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1 LEVEL 03 LIGHTING RCP - AREA B
2LT-133 1/8" = 1'-0"
BAR IS 3" LONG WHEN PRINTED AT FULL SCALE

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GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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Sheet Title
LEVEL 03 LIGHTING RCP - AREA B

Sheet No.
2LT-133

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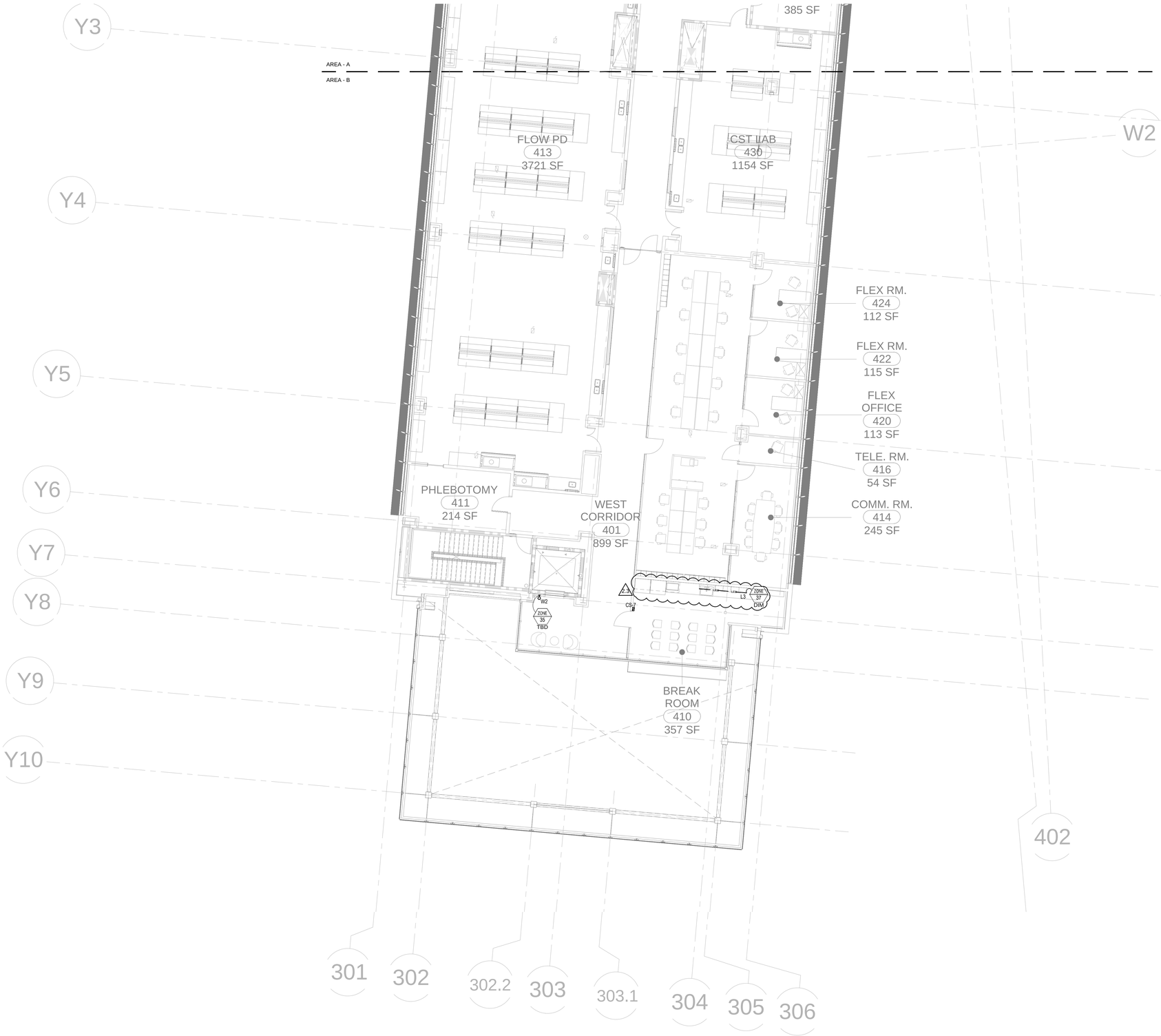

1 / 2LT-142 LEVEL 04 LIGHTING PLAN - AREA B

1/8" = 1'-0" BAR IS 3" LONG WHEN PRINTED AT FULL SCALE

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FOR LIGHTING DESIGN INFORMATION ONLY

GENE THEORY - CP-2
VOLUME 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM 2.2
10.03.17

Sheet Title

LEVEL 04 LIGHTING PLAN - AREA B

Sheet No.

2LT-142

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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1 / 2LT-143 LEVEL 04 LIGHTING RCP - AREA B

1/8" = 1'-0" BAR IS 3" LONG WHEN PRINTED AT FULL SCALE

GENERAL SHEET NOTES

1. VERIFY MOUNTING LOCATIONS AND HEIGHTS OF ALL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
2. ALL FIXTURE AND CONTROL LOCATIONS MUST BE VERIFIED BY THE LIGHTING CONSULTANT AT THE JOBSITE PRIOR TO ROUGH-IN.
3. CONTROL LOOPING INDICATES CONTROL ZONE DESIGN INTENT ONLY. REFER TO ELECTRICAL DRAWINGS FOR DIMMING, SWITCHING AND CIRCUITRY INFORMATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND EQUIPMENT THAT IS NECESSARY FOR THE FOCUS AIMING OF ADJUSTABLE LIGHTING FIXTURES AND THE PROGRAMMING OF LIGHTING PRESETS OR EFFECTS PER THE DIRECTION OF THE LIGHTING DESIGN CONSULTANT.
5. ELECTRICAL CONTRACTOR, FIXTURE SUPPLIER, AND LAMP SUPPLIER MUST VERIFY THAT ALL LED LAMPS ARE COMPATIBLE WITH FIXTURE TRIM HOUSINGS, LAMP SOCKETS, LOW VOLTAGE TRANSFORMERS, AND ELECTRICAL DIMMING SYSTEMS PRIOR TO PLACING ANY LIGHTING EQUIPMENT ORDERS AFTER FIXTURE SHOP DRAWING SUBMITTALS ARE APPROVED. LAMPS SHOULD BE OPERABLE AT FULL OR DIMMED INTENSITY WITH NO VISUALLY PERCEIVED FLICKERING WHEN ALL LAMPS ON THE CIRCUIT ARE ENERGIZED.

KEYNOTES

A. NOT ALL KEYNOTES WILL BE USED ON EVERY PAGE.
B. MEASUREMENTS ARE FOR PRICING ESTIMATES ONLY, CONTRACTOR TO VERIFY LENGTHS WITH FIELD MEASUREMENTS PRIOR TO PURCHASING.

1. TYPE UU1 - RECESSED INGRADE UPLIGHTS FOR FLAG POLES. (2) LIGHTS PER POLE. FINAL POLE LOCATIONS TO BE CONFIRMED PRIOR TO INSTALLATION.
2. TYPE AA3 - FIXTURE TO BE MOUNTED WITHIN PLANTER TO ILLUMINATE LANDSCAPING.
3. TYPE LL2 - FIXTURE TO BE INTEGRATED INTO THE LOW CURB TO ILLUMINATE THE DECK. REFER TO LANDSCAPE PLANS FOR MOUNTING DETAILS.
4. LOW VOLTAGE REMOTE POWER SUPPLY TO BE MOUNTED IN A CONCEALED, DRY, WELL VENTILATED, LOCATION WITHIN MANUFACTURER RECOMMENDED DISTANCES AND WITHIN CODE REQUIRED NEMA RATED ENCLOSURE. CONTRACTOR TO ENSURE PROPER WIRE GAUGE AND DISTANCE USED TO SUPPLY 12V OR 24V AT EACH FIXTURE (REFER TO FIXTURE SCHEDULE FOR VOLTAGE REQUIREMENTS FOR EACH FIXTURE). TRANSFORMER LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
5. NOT USED.
6. TYPE SL1 - FIXTURE TO BE RECESSED IN WALL AT +18" CENTERS AFF.
7. TYPE L2 - FIXTURE TO CONTINUE FROM INTERIOR ATRIUM BRIDGE TO EXTERIOR BRIDGE WITH BREAK AT DOORWAY. FIXTURE TO BE RECESSED IN UNDERSIDE OF BRIDGE.
8. TYPE L5 - ILLUMINATED HANDRAIL FIXTURE TO CONTINUE FROM INTERIOR ATRIUM BRIDGE TO EXTERIOR BRIDGE WITH BREAK AT DOORWAY.
9. TYPE WW1 - PROVIDE POWER FOR LIGHTING AT TRELLIS SHADE STRUCTURE. QTY (5) FIXTURES TO BE AFFIXED TO UPPER PORTION OF STRUCTURE TO ILLUMINATE SEATING AREA BELOW. FINAL MOUNTING LOCATION PENDING FINAL STRUCTURE DESIGN. POWER RUNS TO BE CONCEALED WITHIN STRUCTURE.
10. PROVIDE POWER AND DATA AT PROJECTION LOCATION FOR (2) THEATRICAL LIGHTING FIXTURES, TYPE TL-1. FIXTURES TO HAVE ABILITY TO BE TIED INTO PROJECTION CONTROL SYSTEM. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS AND CONTROL BOD FOR CONTROL REQUIREMENTS.
11. PROVIDE POWER AND DATA ABOVE DOOR FOR (2) THEATRICAL LIGHTING FIXTURES, TYPE TL-2, AND (1) THEATRICAL LIGHTING FIXTURE, TYPE TL-1. FIXTURES TO HAVE ABILITY TO BE TIED INTO PROJECTION CONTROL SYSTEM. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS AND CONTROL BOD FOR CONTROL REQUIREMENTS.
12. TYPE L4 - FIXTURES TO BE SURFACE MOUNTED TO HARDLID CEILING ABOVE DECORATIVE DROPPED CEILING. REFER TP ARCHITECTURAL PLANS FOR MOUNTING LOCATIONS AND DETAILS.
13. TYPE L1 - FIXTURE TO BE MOUNTED AT BACK WALL OF COVE MASKED FROM SIGHT TO BOUNCE LIGHT DOWN SIGNAGE WALL. FIXTURE TO BE ORIENTED AND FOCUSED AT WALL.
14. TYPE L5 - ILLUMINATED HANDRAIL FIXTURE TO BE INTEGRATED INTO ARCHITECTURAL STEEL RAILING SYSTEM. REFER TO ARCHITECTURAL SET FOR MOUNTING CONDITIONS.
15. TYPE L3 - FIXTURE TO BE RECESSED UNDER LIP OF REGISTRATION DESK TO WASH DOWN THE FACE.
16. TYPE LL5 - LINEAR FIXTURES TO BE RECESSED IN TOP STEP OF SEATING AREA. FIXTURE TO BE 12" AWAY FROM BACK WALL TO WASH UP GREEN WALL.

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FOR LIGHTING DESIGN INFORMATION ONLY

GENE THEORY - CP-2
VOLUME 3

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

ADDENDUM 2.2
10.03.17

Sheet Title

LEVEL 04 LIGHTING RCP - AREA B

Sheet No.

2LT-143

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



GENERAL SHEET NOTES

1.	VERIFY MOUNTING LOCATIONS AND HEIGHTS OF ALL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
2.	ALL FIXTURE AND CONTROL LOCATIONS MUST BE VERIFIED BY THE LIGHTING CONSULTANT AT THE JOBSITE PRIOR TO ROUGH-IN.
3.	CONTROL LOOPING INDICATES CONTROL ZONE DESIGN INTENT ONLY. REFER TO ELECTRICAL DRAWINGS FOR DIMMING, SWITCHING AND CIRCUITRY INFORMATION.
4.	THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND EQUIPMENT THAT IS NECESSARY FOR THE FOCUS AIMING OF ADJUSTABLE LIGHTING FIXTURES AND THE PROGRAMMING OF LIGHTING PRESETS OR EFFECTS PER THE DIRECTION OF THE LIGHTING DESIGN CONSULTANT.
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KEY NOTES

1.	FIXTURE SYMBOLS AND LOCATIONS NOT DRAWN TO SCALE.
2.	FIXTURE TYPE 'LL1' TO BE MOUNTED UNDER BENCH. FURTHER COORDINATION REQUIRED.
3.	FIXTURE TYPE 'L2' TO BE MOUNTED UNDER BRIDGE. FURTHER COORDINATION REQUIRED.
4.	FIXTURE TYPE 'L5' TO BE INTEGRATED INTO HANDRAIL. FURTHER COORDINATION REQUIRED.
5.	PROVIDE POWER AT EXTERIOR STAIRWAY. FURTHER COORDINATION REQUIRED.
6.	PROVIDE POWER AT EXTERIOR STAIRWAY. FURTHER COORDINATION REQUIRED.

1 LEVEL 00 - OVERALL SITE LIGHTING PLAN

1" = 30'-0"

0 4' 8' 16'

SCALE: 1/8" = 1'

N

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GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03/22/17	ATRIUM GLAZING BID

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title
OVERALL SITE LIGHTING PLAN

Sheet No.
LTSK-01-0B

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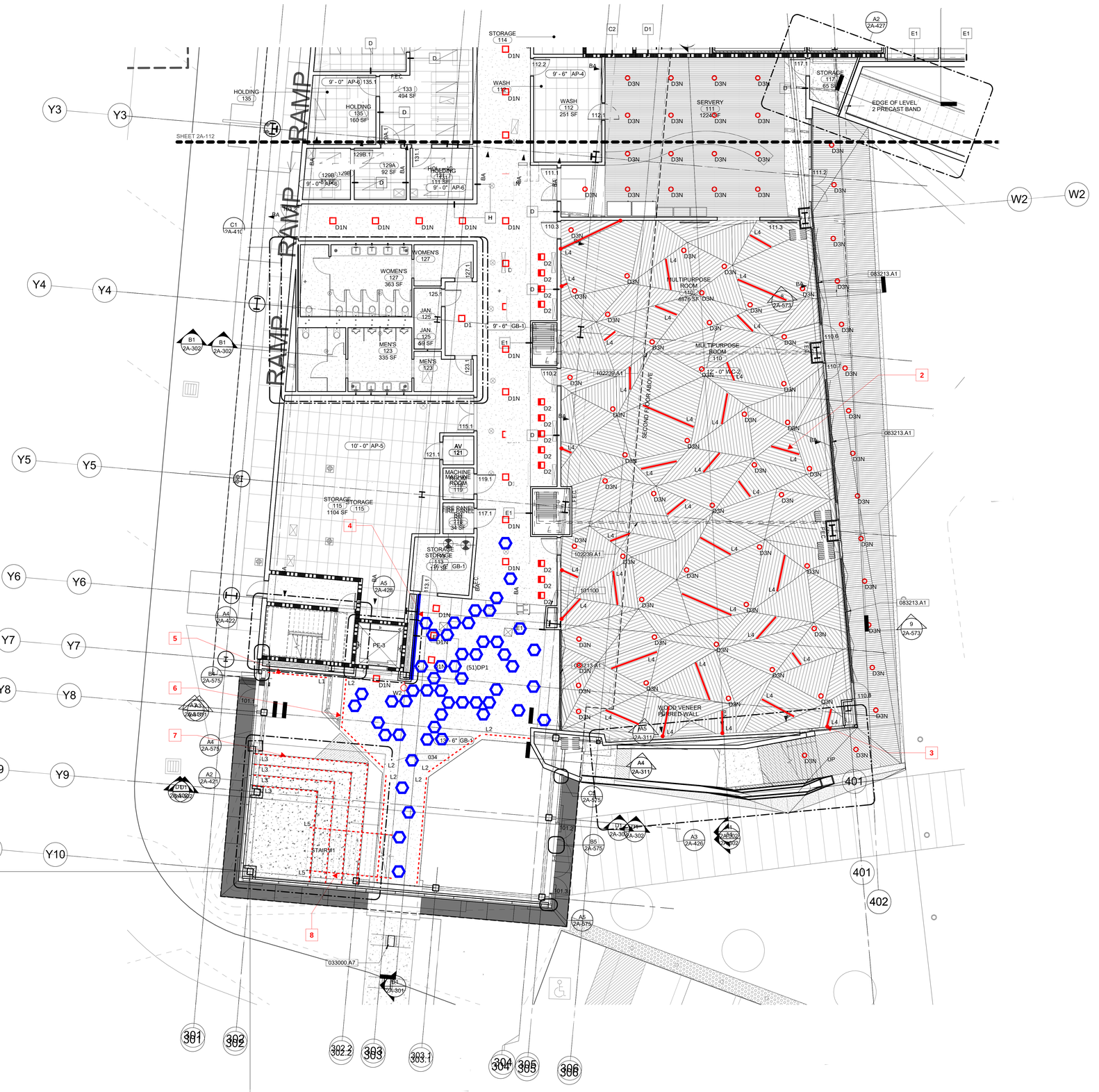

1 LEVEL 01 - LIGHTING PLAN AND RCP - AREA B

1/8" = 1'-0"

SCALE: 1/8" = 1'

GENERAL SHEET NOTES

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2.	ALL FIXTURE AND CONTROL LOCATIONS MUST BE VERIFIED BY THE LIGHTING CONSULTANT AT THE JOBSITE PRIOR TO ROUGH-IN.
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KEY NOTES

1.	FIXTURE SYMBOLS AND LOCATIONS NOT DRAWN TO SCALE.
2.	FIXTURE TYPE 'L4' TO BE RECESSED WITHIN WOOD CEILING STRUCTURE.
3.	FIXTURE TYPE 'L4' TO HAVE 90DEGREE MOUNTING AT CORNERS FOR FIXTURE TO RECESS IN WALL.
4.	FIXTURE TYPE 'DP-1' REQUIRES FURTHER COORDINATION. INFORMATION FORTHCOMING.
5.	FIXTURE TYPE 'L1' TO BE RECESSED IN FLOOR TO UPLIGHT FEATURE WALL.
6.	FIXTURE TYPE 'L2' TO BE RECESSED IN HARDLID CEILING UNDER BRIDGE AND PLATFORM.
7.	FIXTURE TYPE 'L3' TO BE MOUNTED BEHIND LIP AND SITTING STAIR TO WASH DOWN FACE OF STEPS.
8.	FIXTURE TYPE 'L5' TO BE INTEGRATED INTO HANDRAIL.

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GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03/22/17	ATRIUM GLAZING BID

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title

FIRST LEVEL LIGHTING FLOOR PLAN AND RCP - AREA B

Sheet No.

LTSK-01-1B

4/14/2017 4:50:06 PM
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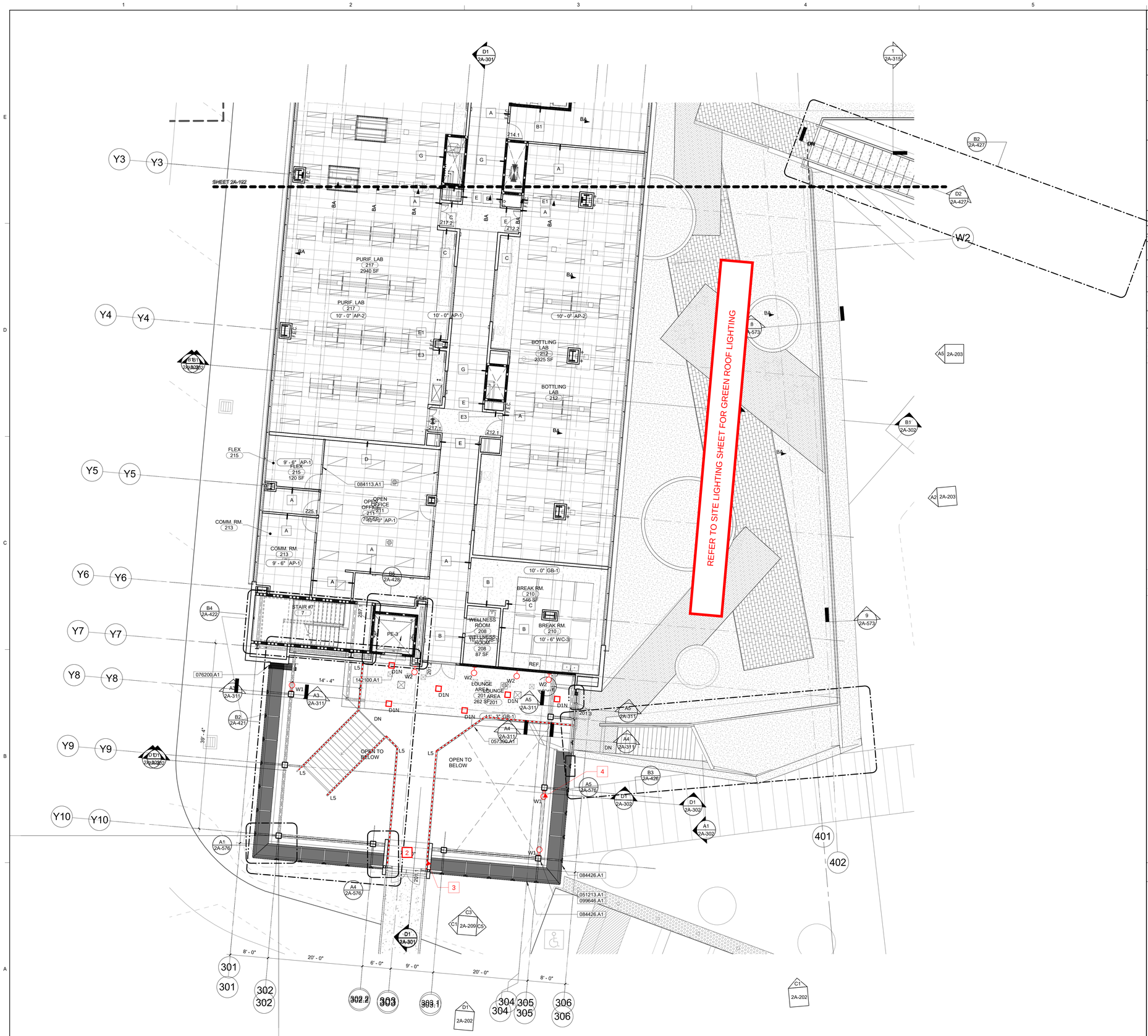

GENERAL SHEET NOTES

1.	VERIFY MOUNTING LOCATIONS AND HEIGHTS OF ALL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
2.	ALL FIXTURE AND CONTROL LOCATIONS MUST BE VERIFIED BY THE LIGHTING CONSULTANT AT THE JOBSITE PRIOR TO ROUGH-IN.
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KEY NOTES

1.	FIXTURE SYMBOLS AND LOCATIONS NOT DRAWN TO SCALE.
2.	ARCHITECTURAL MASKING BOX TO BE BUILT ABOVE DOORWAY PORTAL. SPACE TO HOLD THEATRICAL FIXTURES TO HIGHLIGHT CEILING AND LARGE FEATURE WALL. ADDITIONAL INFORMATION FORTHCOMING.
3.	FIXTURE TYPE 'L5' TO BE INTEGRATED INTO HANDRAIL.
4.	FIXTURE TYPE 'W1' TO BE MOUNTED TO STEEL ARBORS.

1 LEVEL 02 - LIGHTING PLAN AND RCP - AREA B

1/8" = 1'-0"

SCALE: 1/8" = 1'

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GENE THEORY - CP-2

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REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03/22/17	ATRIUM GLAZING BID

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title
SECOND LEVEL LIGHTING FLOOR PLAN AND RCP - AREA B

Sheet No.
LTSK-01-2B

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002

4/14/2017 4:48:52 PM
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1 LEVEL 03 - LIGHTING PLAN AND RCP - AREA B

1/8" = 1'-0"

SCALE: 1/8" = 1'

GENERAL SHEET NOTES

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KEY NOTES

1.	FIXTURE SYMBOLS AND LOCATIONS NOT DRAWN TO SCALE.

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FOR LIGHTING DESIGN INFORMATION ONLY

GENE THEORY -
CP-2

1450 VETERANS BLVD
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PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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DESIGN DEVELOPMENT SET
04.25.17

Sheet Title

THIRD LEVEL LIGHTING FLOOR PLAN AND RCP - AREA B

Sheet No.

LTSK-01-3B

4/14/2017 4:48:19 PM
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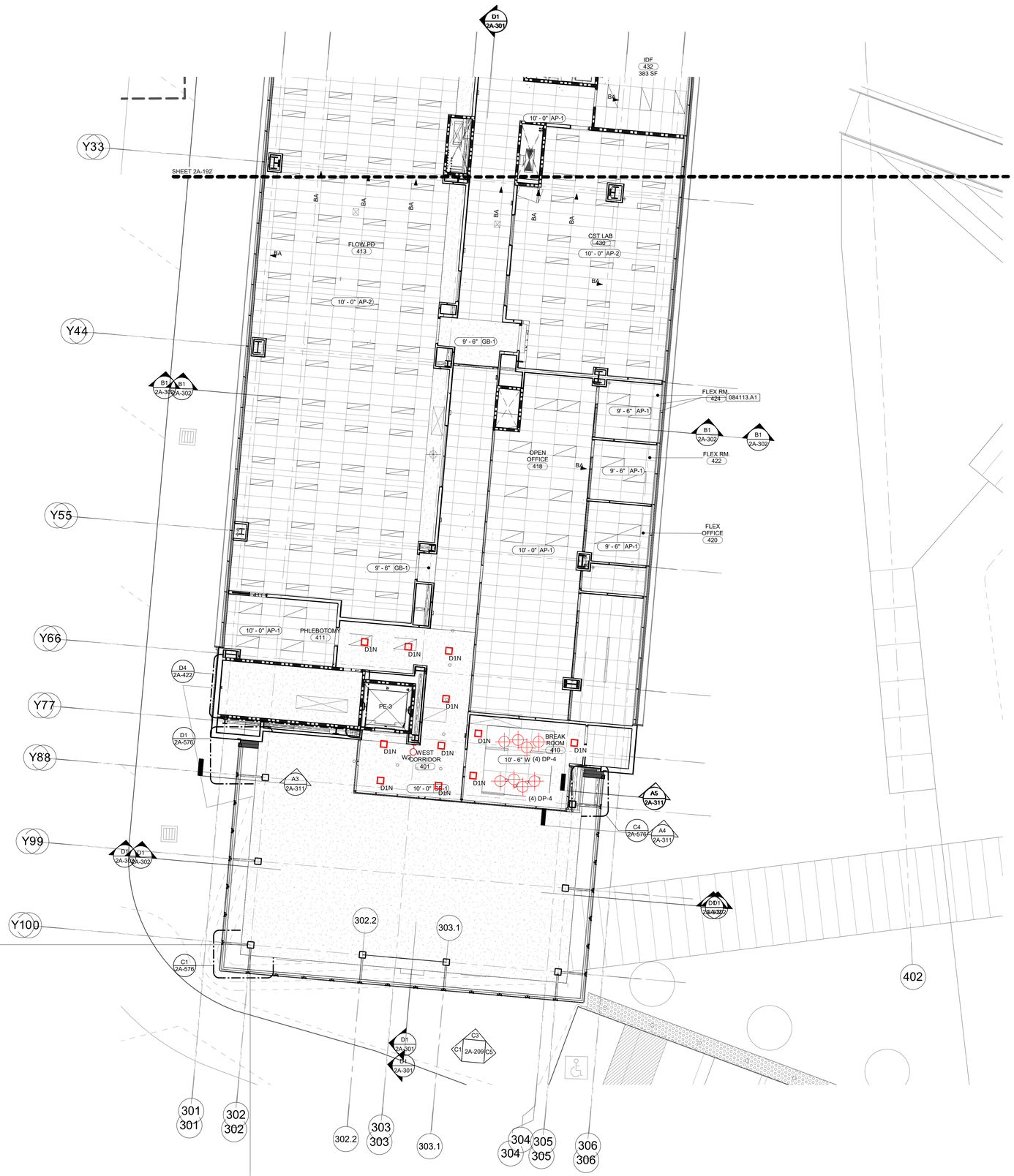

GENERAL SHEET NOTES

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KEY NOTES

1.	FIXTURE SYMBOLS AND LOCATIONS NOT DRAWN TO SCALE.

1 LEVEL 04 - LIGHTING PLAN AND RCP - AREA B

1/8" = 1'-0"

SCALE: 1/8" = 1'

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GENE THEORY -
CP-2

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PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	03/22/17	ATRIUM GLAZING BID

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title

FOURTH LEVEL LIGHTING FLOOR PLAN AND RCP - AREA B

Sheet No.

LTSK-01-4B

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002

GENERAL REQUIREMENTS FOR ELEVATORS

THE FOLLOWING ITEMS MUST BE PERFORMED OR PROVIDED AT NO COST TO ELEVATOR CONTRACTOR BY THE OWNER OR GENERAL CONTRACTOR OR THEIR AGENTS IN ACCORDANCE WITH GOVERNING CODES. THE PRICE AND INSTALLATION SCHEDULE OF ELEVATOR CONTRACTOR IS BASED ON THESE JOB-SITE CONDITIONS EXISTING AT THE BEGINNING AND DURING THE INSTALLATION OF THE ELEVATOR EQUIPMENT. ALL WORK MUST BE PERFORMED PER THE APPLICABLE NATIONAL AND OR LOCAL CODES.

ARCHITECTURAL REQUIREMENTS

A. HOISTWAY: PROVIDE CLEAR PLUMB HOISTWAYS WITH VARIATIONS NOT EXCEEDING ONE 1" FOR FULL HEIGHT. FIRE RATED CONSTRUCTION PER GOVERNING CODES. RECOMMEND THAT INSIDE HOISTWAY WALLS BE FLUSH, WITHOUT PROJECTIONS, AT SIDE AND REAR WALLS AND AT FRONT WALLS WHERE ENTRANCES DO NOT OCCUR.

1. PROJECTIONS: BEAMS, FLOOR SLABS OR OTHER BUILDING CONSTRUCTION SHALL NOT PROJECT MORE THAN TWO INCHES INSIDE THE GENERAL LINE OF THE HOISTWAY UNLESS THE TOP SURFACE OF THE PROJECTION IS BEVELED AT AN ANGLE OF NOT LESS THAN 75° WITH THE HORIZONTAL.
2. SMOKE DETECTORS IN HOISTWAYS: SMOKE DETECTORS INSTALLED IN ELEVATOR HOISTWAYS SHALL BE ACCESSIBLE FOR SERVICING FROM OUTSIDE OF HOISTWAY.
3. SCREENS BETWEEN HOISTWAYS WHEN TWO OR MORE ELEVATORS ARE INSTALLED WITHIN THE SAME HOISTWAY AND ONE OF THE ELEVATORS HAS A SIDE COUNTERWEIGHT ADJACENT TO THE OTHER ELEVATOR THEY SHALL BE FULLY SEPARATED BY A MATERIAL COMPLYING WITH THE FOLLOWING:
   a. WHERE UNPERFORATED STEEL IS USED, IT SHALL BE EQUAL TO OR STRONGER THAN 0.0437" THICK STEEL;
   b. WHERE WIRE SCREEN OR PERFORATED STEEL IS USED IT SHALL BE EQUAL TO OR STRONGER THAN 0.0915 INCH DIAMETER METAL GRILL;
   c. THE MATERIAL SHALL REJECT A BALL 1" IN DIAMETER;
   d. BE SO SUPPORTED AND BRACED THAT WHEN SUBJECTED TO A PRESSURE OF 100 LB/SF APPLIED HORIZONTALLY AT ANY POINT, THE DEFLECTION SHALL NOT EXCEED 1".

B. CONTROLLER ROOM: PROVIDE 2 HOUR FIRE RATED CONSTRUCTION PER GOVERNING CODE WITH A MINIMUM 7'-6" TO 9'-0" CLEAR HEADROOM. RECOMMEND THAT EXPOSED FIREPROOFING BE TREATED TO PREVENT FLAKING AND CONTAMINATION OF ELEVATOR ELECTRICAL COMPONENTS.

4. ARRANGEMENT: THE MACHINE ROOM FOR THE ELEVATOR EQUIPMENT SHALL BE ARRANGED SO THAT PASSAGE THROUGH THE MACHINE ROOM IS NOT NECESSARY TO GAIN ACCESS TO OTHER EQUIPMENT OR OTHER PARTS OF THE BUILDING, OR FOR THE REMOVAL OF NON-ELEVATOR RELATED EQUIPMENT THROUGH THE ELEVATOR / MACHINE ROOM.
5. SOUND CONTROL: OBTAIN RECOMMENDATIONS FROM ACOUSTIC CONSULTANT. WHERE EQUIPMENT ROOMS ARE ADJACENT TO TENANT OR PUBLIC SPACES SPECIAL ATTENTION SHOULD BE GIVEN TO SOUND ISOLATION OF THE ROOM. AS A MINIMUM, WITH DRYWALL CONSTRUCTION INCLUDE ACOUSTIC INSULATION IN WALLS. FOR HYDRAULIC ELEVATOR EQUIPMENT ROOMS, IN ADDITION TO ACOUSTIC WALL CONSTRUCTION, IT IS RECOMMENDED SOUND BOARD BE INSTALLED ON ALL WALLS.
6. ACCESS TO MACHINE ROOMS / CONTROLLER ROOMS: A SAFE AND CONVENIENT MEANS OF ACCESS SHALL BE PROVIDED TO MACHINE ROOMS. WHERE MACHINE ROOMS ARE LOCATED ON THE ROOF, A CLEAR PATH 24" WIDE X 6'-6" HIGH AND ADEQUATELY ILLUMINATED SHALL BE PROVIDED FROM THE STAIR ACCESS TO ROOF TO THE MACHINE ROOM. IF THE MACHINE ROOM IS ELEVATED ABOVE THE ROOF, A STAIR OR 60" SHIPS LADDER SHALL BE PROVIDED FOR ACCESS TO THE DOOR OF THE MACHINE ROOM.
7. MACHINE ROOM / CONTROLLER ROOM ACCESS DOOR: PROVIDE ACCESS DOOR 3'-6" WIDE X 7'-0" HIGH, SELF-CLOSING, SELF-LOCKING AND OPENABLE FROM INSIDE WITHOUT A KEY.
8. FOREIGN EQUIPMENT: DO NOT LOCATE ANY PIPES, CONDUIT, DUCTS OR OTHER EQUIPMENT IN MACHINE ROOM THAT IS NOT NECESSARY FOR THE PROPER OPERATION OF ELEVATOR EQUIPMENT.
9. FIRE EXTINGUISHER: PROVIDE ABC TYPE FIRE EXTINGUISHER IN EACH ELEVATOR MACHINE ROOM.
10. HOISTING BEAM: PROVIDE HOISTING BEAM AT TOP OF HOISTWAY OR AT CEILING OF MACHINE ROOM OVER ELEVATOR HOISTWAY; DESIGN FOR 8500 LB CAPACITY LIFTING LOAD. THIS BEAM CAN BE TEMPORARY AND REMOVED AT THE END OF CONSTRUCTION IF ADDITIONAL SPACE IS REQUIRED TO MEET CODE REQUIRED OVERHEAD CLEARANCES WITHIN HOISTWAY.
11. MACHINE ROOM/CONTROLLER ROOM: PROVIDE NATURAL OR MECHANICAL MEANS TO KEEP THE AMBIENT TEMPERATURE MAINTAINED BETWEEN 55°F AND 90°F WITH AN ACCEPTABLE LEVEL OF HUMIDITY OF 95% OR LESS.

C. BLOCK-OUTS AND CHASES: PROVIDE, AS REQUIRED BY ELEVATOR CONTRACTOR, FOR SIGNAL FIXTURES, CONDUITS, PIPE RUNS AND OTHER ELEVATOR EQUIPMENT.

D. PITS:

1. PIT ACCESS LADDERS FROM LOWEST ELEVATOR LANDING LOBBY DOOR: PROVIDE A STEEL LADDER FROM PIT FLOOR TO 4' - 0" ABOVE LOWEST LANDING. MINIMUM SIXTEEN INCHES WIDE WITH RUNGS 12" O/C AND A MINIMUM 7" TOE SPACE. WHERE PITS ARE DEEPER THAN 13'-9" AND NO ACCESS IS PROVIDED FROM A FLOOR BELOW THE LOWEST LANDING OF PIT ACCESS, INTERMEDIATE FLOORING SHALL BE PROVIDED CONSISTING OF GRATING OR STEEL PLATE WITH AN ACCESS DOOR AND ADDITIONAL LADDER TO GAIN ACCESS TO THE LOWEST LEVEL OF THE PIT.
2. GUARDS BETWEEN ADJACENT PITS: SCREEN ENCLOSURE, MINIMUM 6'-0" HIGH FROM PIT FLOOR WITH OPENINGS SIZED TO REJECT A 2" DIAMETER BALL.
3. LADDER GUARDS BETWEEN ADJACENT PITS: WHERE ACCESS LADDERS ARE LOCATED AT SCREEN ENCLOSURE BETWEEN ADJACENT PITS, EXTEND ENCLOSURE 6'-0" ABOVE TOP RUNG OF LADDER AND 12" EACH SIDE OF SIDE RAILS OF LADDER.

E. PASSENGER ELEVATOR HOISTWAY ENTRANCES:

1. SILL SUPPORTS: SUPPORT FULL WIDTH OF HOISTWAY AT EDGE OF SLAB FOR ATTACHMENT OF SILL SUPPORT ANGLES BY ELEVATOR CONTRACTOR. FOR COMPOSITE SLAB, PROVIDE ANGLE FLASHING AT EDGE OF CLEAR HOISTWAY.
2. GROUTING: GROUTING UNDER SILL ANGLES AND BEHIND ELEVATOR ENTRANCE FRAMES WHEN INSTALLED IN CONCRETE OR MASONRY WALLS.
3. ROUGH OPENING: FOR CONCRETE WALLS, 6" ON EACH SIDE AND AT TOP OF CLEAR OPENING.

F. OVERHEAD GOVERNOR SHEAVE SPACE: PROVIDE FIRE-RATED 24" SQUARE ACCESS DOOR IF REQUIRED BY ELEVATOR CONTRACTOR WITH SELF-CLOSING AND SELF-LOCKING HARDWARE SIMILAR TO MACHINE ROOM DOOR. IF ACCESS DOOR IS ACCESSIBLE FROM A PUBLIC SPACE, THE LOCK MUST BE OF THE 5 PIN TYPE. PROVIDE ACCESS LADDERS AND PLATFORMS AS DETAILED.

G. VENTILATION: COORDINATE HOISTWAY AND MACHINE ROOM VENTILATION REQUIREMENTS WITH MECHANICAL ENGINEER.

H. ELEVATOR LOBBY SILL ILLUMINATION: LOBBY LIGHTING SHALL PRODUCE A MINIMUM OF 10 FOOT-CANDLES OF ILLUMINATION AT THE ELEVATOR SILL WHEN THE ELEVATOR IS IN OPERATION.

I. ELEVATOR CAR ILLUMINATION: THE ELEVATOR CAR MUST BE PROVIDED WITH NO LESS THAN TWO LIGHT FIXTURES TO PRODUCE A MINIMUM OF 5 FOOT-CANDLES OF ILLUMINATION AT THE ELEVATOR SILL / FLOOR LEVEL WITH THE ELEVATOR DOORS CLOSED.

J. ACOUSTICAL CONSIDERATIONS: ELEVATOR EQUIPMENT SOUND CONTROL MEASURES ARE LIMITED TO APPROXIMATELY 85 DB IN MACHINE ROOMS, 55 DB IN ELEVATOR CARS AND 50 DB IN ELEVATOR LOBBIES. DESIGN TEAM MUST TAKE PRECAUTIONARY MEASURES WHEN CONSIDERING LOCATION OF ELEVATOR HOISTWAYS AND MACHINE ROOMS IN RELATION TO SENSITIVE OCCUPIED SPACES. BUFFER ZONES SUCH AS STORAGE ROOMS, TOILET ROOMS AND STAIRWAYS BETWEEN ELEVATOR SPACES AND TENANT SPACES AS WELL AS SOUND DEADENING OF ENCLOSURES SHOULD BE CONSIDERED. SPECIAL ATTENTION TO THESE CONDITIONS FOR RESIDENTIAL OCCUPANCIES, MUSEUMS, CLASSROOMS AND LIBRARIES IS MANDATORY.

STRUCTURAL REQUIREMENTS

A. PITS:

1. SIZE: PROVIDE A DRY PIT OF SIZE AND DEPTH SHOWN.
2. REINFORCEMENT: REINFORCE PIT FLOOR TO TAKE ALL LOADS INDICATED.
3. SUMP PIT: COORDINATE WITH MECHANICAL ENGINEER AND PROVIDE SUMP PIT 2'-0" SQUARE EXTENDING 2'-0" DEEP BELOW PIT FLOOR AS SHOWN. PROVIDE REMOVABLE GRATING OR COVER FLUSH WITH PIT FLOOR.

B. HOISTWAY FRAMING:

1. CLEARANCES: STEEL BEAMS WITH FIREPROOFING AND FLOOR SLABS SHALL NOT PROJECT INTO CLEAR HOISTWAY DIMENSION AS SHOWN. CLEAR HOISTWAY DIMENSION MUST BE MAINTAINED THE FULL HEIGHT OF THE HOISTWAY.
2. GUIDE RAIL SUPPORTS: PROVIDE STRUCTURAL SUPPORTS AT SIDES AND REAR OF ELEVATORS AND DIVIDER SUPPORTS BETWEEN ELEVATORS AT A MAXIMUM VERTICAL SPACING NOT TO EXCEED 14'-0". ALTERNATELY, CONTINUOUS VERTICAL SUPPORTS BEHIND EACH GUIDE RAIL MAY BE PROVIDED. FOR RAIL FORCES ACTING ON THESE SUPPORTS, REFER TO "RAIL FORCES AND LOADING".
3. SILL SUPPORTS: SUPPORT FULL WIDTH OF HOISTWAY AT EDGE OF SLAB FOR ATTACHMENT OF SILL SUPPORT ANGLES BY ELEVATOR CONTRACTOR. FOR COMPOSITE SLAB, PROVIDE ANGLE FLASHING AT EDGE OF CLEAR HOISTWAY.
4. ROUGH OPENING: FOR ENTRANCES INSTALLED IN CONCRETE WALLS, PROVIDE A 6" ROUGH OPENING ON EACH SIDE AND AT TOP OF CLEAR OPENING.

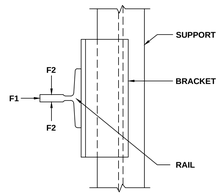
C. CONTROLLER ROOM:

1. OVERHEAD MACHINE SUPPORT FOR OVERHEAD MACHINE OR MACHINE SPACE: PROVIDE STRUCTURAL SUPPORTS TO TAKE MACHINE REACTIONS, IMPACT AND STATIC LOADS AS INDICATED. SUPPORTS ARE NOT TO DEFLECT MORE THAN 1/1666 OF THE SUPPORT SPAN BASED ON STATIC LOADS.
2. FLOOR: PROVIDE CONCRETE FLOOR SLABS, REINFORCED TO TAKE DEAD LOADS OF EQUIPMENT SHOWN, A CONCENTRATED LOAD OF 300 LBS ON ANY FOUR SQUARE INCHES AND A LIVE LOAD OF NOT LESS THAN 125 LBS PER SQUARE FOOT. MACHINE ROOM FLOOR SHALL BE ABOVE OR FLUSH WITH THE TOP OF ELEVATOR MACHINE BEAMS. CONFIRM WITH ELEVATOR CONTRACTOR.
3. OVERHEAD SUPPORTS: PROVIDE STRUCTURAL SUPPORTS TO TAKE OVERHEAD SHEAVE/DEAD END HITCH BEAM REACTIONS, IMPACT AND STATIC LOADS AS INDICATED. SUPPORTS ARE NOT TO DEFLECT MORE THAN 1/1666 OF THE SUPPORT SPAN BASED ON STATIC LOADS. TOP OF SUPPORTS SHALL BE AS INDICATED. CONFIRM WITH ELEVATOR CONTRACTOR.

RAIL FORCES AND LOADING

THE FOLLOWING RAIL FORCES ARE BASED ON;

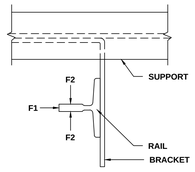
SEISMIC LOADING: MAXIMUM RAIL DEFLECTION CANNOT EXCEED 1/4" UNDER SEISMIC LOAD AND INDICATED IN KIPS



CAR RAIL

RAIL LOADS

ELEV. NUMBER	CAR RAIL		CWT. RAIL	
	F1	F2	F1	F2
PE1	3.8K	1.9K	3.9K	2.0K
SE2	3.4K	1.7K	3.6K	1.8K
PE3	3.8K	1.9K	3.9K	2.0K



CWT. RAIL

ELECTRICAL REQUIREMENTS

A. CONTROLLER ROOM:

1. POWER CIRCUITS: DEDICATED THREE-PHASE POWER FEEDERS THROUGH INDIVIDUALLY LOCKABLE FUSED MAINLINE DISCONNECT SWITCH OR CIRCUIT BREAKER FOR EACH ELEVATOR WITH FEEDERS EXTENDED TO CONTROLLERS. SIZE FEEDERS TO LIMIT VOLTAGE DROP TO LESS THAN 5%. USE COPPER CONDUCTORS ONLY. PROVIDE CONTINUOUS SYSTEM GROUND CONDUCTOR.
2. TRACTION ELEVATOR BATTERY RESCUE UNIT PROVISIONS: PROVIDE (2) "FORM C" AUXILIARY CONTACTS INTEGRAL DESIGNED WITH THE THREE-PHASE DISCONNECT SWITCH TO SIGNAL THE BATTERY-LOWERING UNIT. PROVIDE TWO NO. 14 WIRES FROM DISCONNECT TO THE CONTROLLER.
3. POWER DISCONNECTING MEANS: WHERE SPRINKLERS ARE PROVIDED IN ELEVATOR MACHINE ROOMS AND IN HOISTWAYS LOCATED HIGHER THAN 1'-0" ABOVE THE PIT FLOOR, MEANS SHALL BE PROVIDED TO AUTOMATICALLY DISCONNECT THE THREE-PHASE MAIN LINE POWER SUPPLY TO THE AFFECTED ELEVATOR PRIOR TO THE APPLICATION OF WATER. THIS MEANS SHALL NOT BE SELF-RESETTING AND SHALL BE LOCATED OUTSIDE OF THE MACHINE ROOM. THE ACTIVATION OF SPRINKLERS OUTSIDE OF THE HOISTWAY OR MACHINE ROOM SHALL NOT DISCONNECT THE MAIN LINE POWER SUPPLY. TO ALLOW MONITORING OF THE STATUS OF THE VOLTAGE TO THE SHUNT TRIP DEVICE, WIRING WILL BE REQUIRED FROM CONTACTS ON THE THREE-PHASE DISCONNECT TO THE BUILDING MONITORING LOCATION.
4. CAR LIGHTING AND ACCESSORIES CIRCUITS: 120 V.A.C., 20 AMP SINGLE-PHASE POWER WITH LOCKABLE S.P.S.T. DISCONNECT SWITCH WITH WIRE EXTENDED TO STUDS ON EACH ELEVATOR CONTROLLER. PROVIDE EMERGENCY POWER BACK UP.
5. TELEPHONE COMMUNICATION LINES: CONNECT TO STUDS ON EACH ELEVATOR CONTROLLER FOR PASSENGER EMERGENCY COMMUNICATION.
6. FIREMAN'S COMMUNICATION CIRCUIT; FOR LIFE SAFETY BUILDINGS: CONNECT TO STUDS ON EACH ELEVATOR CONTROLLER.
7. PUBLIC ADDRESS OR LIFE SAFETY SPEAKERS; FOR LIFE SAFETY BUILDINGS: CONNECT TO STUDS ON EACH ELEVATOR CONTROLLER.
8. SMOKE DETECTOR CIRCUITS: FROM DETECTOR IN ELEVATOR LOBBIES, HOISTWAYS AND MACHINE ROOMS TO CONTROLLER DESIGNATED BY ELEVATOR CONTRACTOR FOR FIRE EMERGENCY SERVICE. ANY SMOKE DETECTORS INSTALLED IN ELEVATOR HOISTWAYS SHALL BE ACCESSIBLE FOR SERVICING FROM OUTSIDE OF HOISTWAY.
9. LIGHTING AND OUTLETS: MINIMUM 19 FOOT-CANDLES AT MACHINE ROOM FLOOR. LOCATE LIGHT SWITCH WITHIN 18" OF LOCK JAMB SIDE OF ACCESS DOOR. PROVIDE GFI CONVENIENCE OUTLETS ON ALL WALLS.
10. ROOF ACCESS LIGHTING: PROVIDE A LIGHTED PATHWAY FROM ROOF ACCESS DOOR TO MACHINE ROOM DOOR.
11. FIRE EXTINGUISHER: PROVIDE AN ABC TYPE FIRE EXTINGUISHER IN EACH ELEVATOR MACHINE ROOM.
12. EMERGENCY STANDBY POWER: PROVIDE EMERGENCY STANDBY POWER SOURCE SIZED TO RUN LARGEST ELEVATOR IN EACH OF THE FOLLOWING GROUPS:
    GROUP I ELEVATOR NO. SE2
    a. POWER SOURCE SHALL BE SIZED TO ABSORB REGENERATIVE POWER FROM ELEVATOR SYSTEMS THAT EQUAL APPROXIMATELY 25% TO 45% OF FULL LOAD RUNNING. IN GENERAL, THE TOTAL STANDBY POWER LOAD SHOULD BE NO LESS THAN TWICE THE STANDBY LOAD IMPOSED BY THE ELEVATORS ALONE.
    b. PROVIDE TIME DELAY AUTOMATIC TRANSFER SWITCH TO DISTRIBUTE STANDBY POWER THROUGH NORMAL FEEDERS OF POWER CIRCUITS. PROVIDE TWO PAIRS OF NO. 14 GAUGE WIRES FROM FORM "C" AUXILIARY CONTACTS ON TRANSFER SWITCH TO MACHINE ROOM TO OPERATE AS FOLLOWS:
       1) ONE DRY CONTACT TO OPEN WHEN NORMAL POWER FAILS AND EMERGENCY STANDBY POWER BECOMES AVAILABLE AND TO CLOSE WHEN NORMAL POWER RETURNS TO SIGNAL ELEVATOR CONTROLLERS.
       2) ONE DRY CONTACT TO OPEN ON EMERGENCY POWER AND TO CLOSE 30 TO 60 SECONDS PRIOR TO TRANSFER BACK TO NORMAL POWER TO ALLOW ELEVATORS TO COME TO REST PRIOR TO NORMAL POWER RESUMPTION.
    c. CONNECT CAR LIGHTING, FAN AND INTERCOM SYSTEM CIRCUITS ON EMERGENCY POWER SOURCE.
13. REGENERATIVE POWER: VERIFY WITH MANUFACTURER IF ELEVATOR SYSTEM IS PROVIDED WITH A REGENERATIVE DRIVE SYSTEM. REGENERATIVE POWER WILL BE TRANSFERRED TO BOTH NORMAL AND EMERGENCY POWER SOURCES; THIS MUST BE CONSIDERED IN ELECTRICAL SYSTEM DESIGN.
14. COMMON CIRCUIT: DEDICATED 20 AMP 120 VOLT 1-PHASE CIRCUIT THROUGH LOCKABLE S.P.S.T. FUSED DISCONNECT SWITCH WITH FEEDERS EXTENDED TO GROUP CONTROLLER PANEL DESIGNATED BY ELEVATOR CONTRACTOR FOR EACH BANK OF TWO CARS OR MORE. PROVIDE EMERGENCY POWER BACKUP.
15. PIT LIGHT AND OUTLETS: LOCATE LIGHT SWITCH WITHIN 18 INCHES OF LOCK JAMB SIDE OF WALK-IN ACCESS DOOR OR ADJACENT TO ACCESS LADDER BETWEEN 18" AND 36" ABOVE LOWEST LANDING. PROVIDE NEMA 4 PIT LIGHT FIXTURES, CONDUIT AND ELECTRICAL RECEPTACLES TO INCLUDE PROTECTIVE LENSES TO COVER BARE LIGHT BULBS OR FLUORESCENT TUBES. MINIMUM LIGHT LEVEL OF 10 FOOT CANDLES ANYWHERE IN PIT. PROVIDE A MINIMUM OF ONE GFCI CONVENIENCE OUTLET PER ELEVATOR. COORDINATE LOCATION OF ALL DEVICES WITH ELEVATOR CONTRACTOR.
16. OVERHEAD MACHINE OR SHEAVE SPACE IN HOISTWAY: PROVIDE MINIMUM 20 FOOT-CANDLES OF ILLUMINATION IN OVERHEAD MACHINE SPACES. PROVIDE LIGHT SWITCH AND GFI CONVENIENCE OUTLET AS DIRECTED BY ELEVATOR CONTRACTOR.
17. ELEVATOR LOBBY SILL ILLUMINATION: LOBBY LIGHTING SHALL PRODUCE A MINIMUM OF 10 FOOT-CANDLES OF ILLUMINATION AT THE ELEVATOR SILL WHEN THE ELEVATOR IS IN OPERATION.
18. ELEVATOR CAR ILLUMINATION: THE ELEVATOR CAR MUST BE PROVIDED WITH NO LESS THAN TWO LIGHT FIXTURES TO PRODUCE A MINIMUM OF 5 FOOT-CANDLES OF ILLUMINATION AT THE ELEVATOR SILL / FLOOR LEVEL WITH THE ELEVATOR DOORS CLOSED.
19. CONDUIT: PROVIDE THE FOLLOWING QUANTITIES AND SIZE OF CONDUIT WITH PULL WIRE BETWEEN HOISTWAYS AND EACH LOCATION OF REMOTE LIFE SAFETY ROOM AND GUARD'S PANEL.

NUMBER OF ELEVATORS IN BANK	NUMBER OF CONDUITS	CONDUIT SIZE
SINGLE CAR	1	2"
TWO CARS	1	2 1/2"
THREE CARS	2	2 1/2"
FOUR CARS	2	2 1/2"

20. REFER TO "ELECTRICAL / MECHANICAL LOADS" FOR HORSEPOWER, ACCELERATION AND RUNNING AMPS.

MECHANICAL REQUIREMENTS

A. VENTILATION OF CONTROLLER ROOM: PROVIDE MECHANICAL VENTILATION, HEATING OR AIR CONDITIONING IN MACHINE ROOMS OF SUFFICIENT CAPACITY TO MAINTAIN A TEMPERATURE BETWEEN 50° F. AND 90° F, CONTROLLED BY THERMOSTATS IN THE MACHINE ROOM. MAXIMUM RELATIVE HUMIDITY (NON-CONDENSING) 85%. LOCATE MECHANICAL VENTILATION EQUIPMENT OUTSIDE OF ELEVATOR MACHINE ROOM.

B. HOISTWAY VENTING/PRESSURIZATION: PROVIDE HOISTWAY VENTILATION OR HOISTWAY PRESSURIZATION FOR ELEVATORS SERVING MORE THAN 2 LEVELS PER GOVERNING BUILDING CODE. IF HOISTWAY VENTILATION IS TO BE PROVIDED, DO NOT VENTILATE INTO MACHINE ROOM. VENTILATE DIRECTLY TO OUTSIDE AIR OR THROUGH MECHANICAL DUCTS TO OUTSIDE AIR FROM TOP OF HOISTWAY BELOW MACHINE ROOM FLOOR. TYPICALLY HOISTWAY VENTILATION IS 3 SQUARE FEET PER ELEVATOR OF FREE AIR VENTILATION SPACE OR 3.5% OF THE HOISTWAY AREA, WHICHEVER IS GREATER. CHECK LOCAL CODES FOR SPECIAL REQUIREMENTS AND CAPACITY OF VENTILATION. WHERE HOISTWAY PRESSURIZATION IF EMPLOYED, MACHINE ROOMS SHALL ALSO BE PRESSURIZED WHERE THE MACHINE ROOM CONNECTS DIRECTLY TO THE HOISTWAY. HOISTWAY PRESSURIZATION SHALL NOT INTERFERE WITH THE OPERATION OF THE ELEVATOR SYSTEM AND IT IS RECOMMENDED THAT THE MINIMUM AMOUNT OF AIR PRESSURE BE UTILIZED TO ACCOMMODATE THE INTENDED TASK.

C. FOREIGN EQUIPMENT: DO NOT LOCATE ANY PIPES, CONDUITS OR OTHER NON-ELEVATOR EQUIPMENT IN ELEVATOR MACHINE ROOM OR HOISTWAYS.

D. FIRE EXTINGUISHER: PROVIDE AN ABC TYPE FIRE EXTINGUISHER IN EACH ELEVATOR MACHINE ROOM.

E. MECHANICAL LOADS: REFER TO "ELECTRICAL / MECHANICAL LOADS" FOR AVERAGE ELEVATOR EQUIPMENT HEAT RELEASE IN MACHINE ROOMS.

ELECTRICAL / MECHANICAL LOADS

DUE TO THE EVER CHANGING STATE-OF-THE-ART OF ELEVATOR EQUIPMENT PROVIDED BY THE VARIOUS ELEVATOR COMPANIES, IT IS DIFFICULT TO DETERMINE EXACTLY WHAT TYPE OF EQUIPMENT WILL BE USED ON EACH PROJECT.

ADDITIONALLY, EACH MANUFACTURER, BECAUSE OF THEIR EQUIPMENT WEIGHTS AND DESIGN EFFICIENCIES, WILL HAVE DIFFERENT HORSEPOWER RATINGS AND CURRENT CHARACTERISTICS. THE FOLLOWING LOADS ARE BASED ON AN AVERAGE AND MAY VARY FROM THE SUCCESSFUL MANUFACTURER'S ACTUAL NEEDS. THIS INFORMATION MUST BE CONFIRMED AFTER THE ELEVATOR CONTRACT IS AWARDED.

BASED ON 480 VAC, 3 PH, 60 HZ POWER SUPPLY

ELEVATOR NUMBER	CAPACITY (POUNDS)	SPEED (FPM)	MOTOR HP RATING (AC)	STARTING AMPS FULL LOAD UP (AMPS)	RUNNING AMPS FULL LOAD UP (AMPS)	HEAT RELEASE (BTU/HR) PER MACHINE	HEAT RELEASE (BTU/HR) PER CONTROLLER
PE1	3500	400	28	49	38	4,500	11,200
SE2	5000	400	40*	53	46	5,800	14,400
PE3	3500	400	28	49	38	4,500	11,200

*** T.B.D. BY MANUFACTURER**

4/6/2017 10:47:20 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

BIOLGENE THEORY
CP-2

TERMAN PROJECT
SAN DIEGO 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET

DESIGN DEVELOPMENT SET
04.25.17

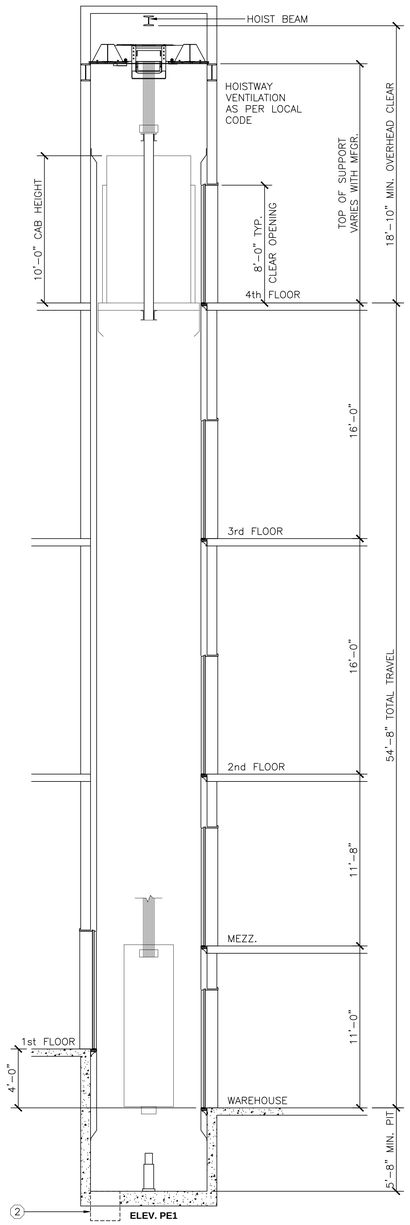
Sheet Title

GENERAL REQUIREMENTS FOR ELEVATORS

Sheet No.

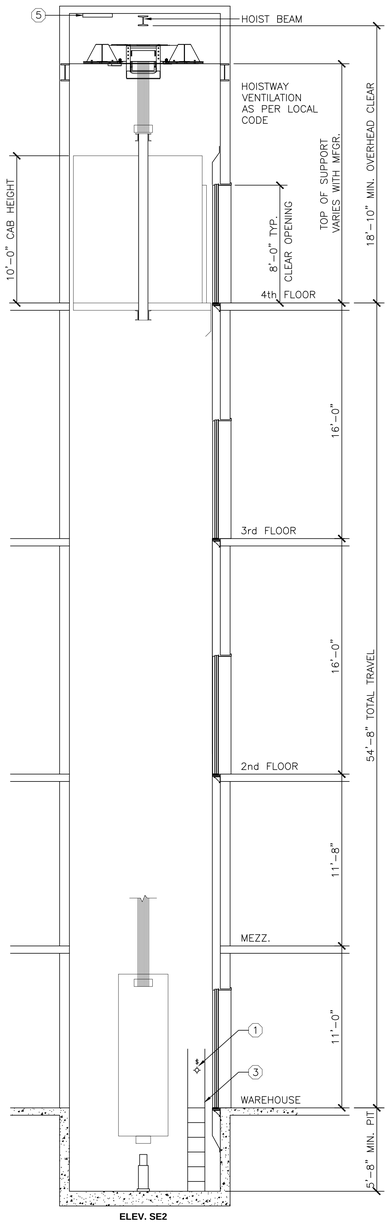
2VT-100

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002



5 SECTIONAL ELEVATION

SCALE: 3/8" = 1'-0"

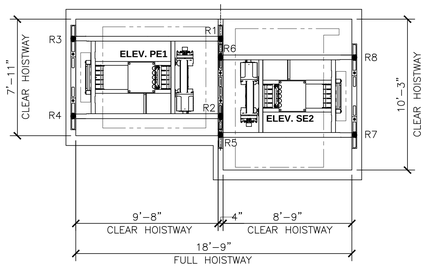


6 SECTIONAL ELEVATION

SCALE: 1/8" = 1'-0"

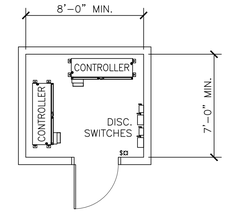
REACTION = STATIC / IMPACT

R1 =	5.3K / 9.8K	R5 =	5.4K / 9.9K
R2 =	5.4K / 9.8K	R6 =	5.5K / 9.9K
R3 =	9.3K / 17.7K	R7 =	8.8K / 16.7K
R4 =	9.4K / 17.8K	R8 =	9.4K / 16.9K



3 MACHINE SET5TING PLAN

SCALE: 3/8" = 1'-0"



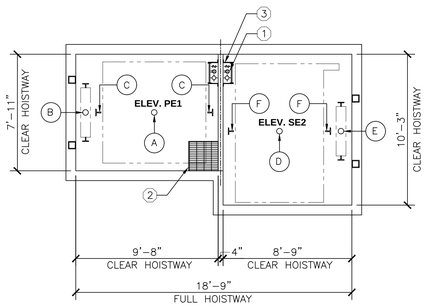
4 CONTROLLER ROOM

SCALE: 3/8" = 1'-0"

PIT VERTICAL LOADS (IMPACT):

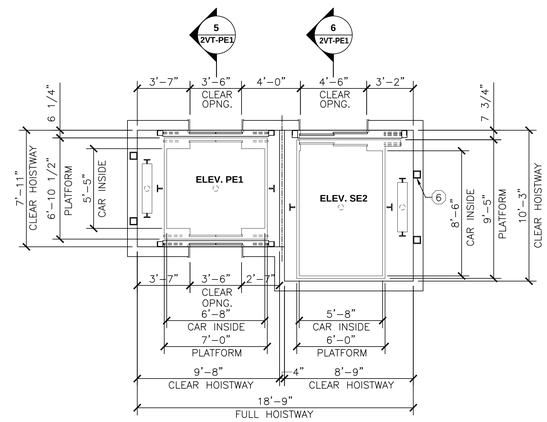
A	49.0K CAR BUFFER LOAD	D	47.8K CAR BUFFER LOAD
B	39.8K CWT. BUFFER LOAD	E	35.1K CWT. BUFFER LOAD
C	13.1K CAR RAIL LOADS AT SAFETY APPLICATION	F	12.8K CAR RAIL LOADS AT SAFETY APPLICATION

CAR BUFFER AND CAR RAIL LOADS DO NOT OCCUR AT THE SAME TIME



2 PIT PLAN

SCALE: 3/8" = 1'-0"



1 TYP. HATCH PLAN

SCALE: 3/8" = 1'-0"

WORK BY OTHERS:

1. PIT LIGHT AND ELEVATOR STOP SWITCH TO BE PROVIDED ADJACENT TO PIT LADDER, AT A HEIGHT PER LOCAL AHJ.
2. PROVIDE PER LOCAL AHJ, SUMP PUMP HOLE 24" x 24" x 24", WITH GRATE BY OTHERS.
3. PROVIDE PIT LADDER PER ASME AND LOCAL AHJ.
4. PROVIDE LIGHT SWITCH AND GFCE RECEPTACLE PER ASME AND LOCAL AHJ.
5. PROVIDE LIGHTING PER ASME (19fc) AND LOCAL AHJ.
6. STRUCTURE TO SUPPORT GUIDE RAIL BRACKETS. BRACKETS TO BE SUPPORTED WITHIN 14'-0" MAXIMUM VERTICAL SPACING. TO BE VERIFIED BY THE ELEVATOR MANUFACTURER.

ELEVATOR NO.	CAPACITY	SPEED
PE1	3500 LBS	400 FPM
SE2	5000 LBS	400 FPM

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT.
4/6/2017 10:47:20 AM

BIOLGENE THEORY
CP-2

TERMAN COURT
SAN DIEGO

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title

HOISTWAY & CONTROLLER ROOM PLAN

Sheet No.

2VT-PE1

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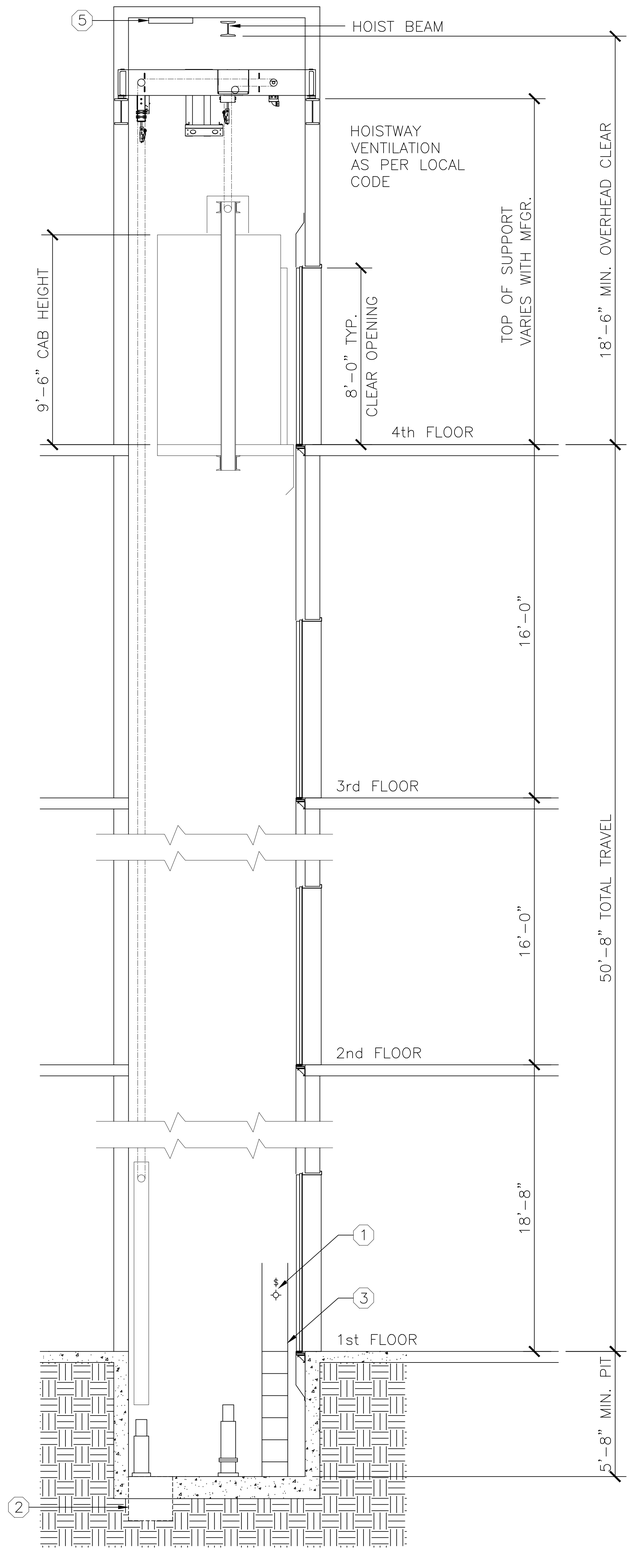
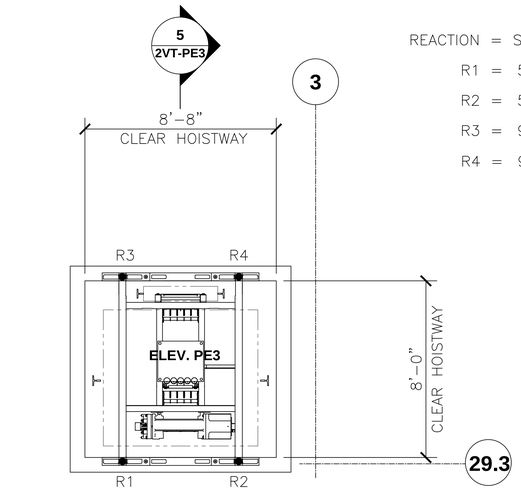
4/6/2017 10:47:20 AM



5 SECTIONAL ELEVATION

SCALE: 3/8" = 1'-0"



REACTION = STATIC / IMPACT

R1 = 5.3K / 9.8K

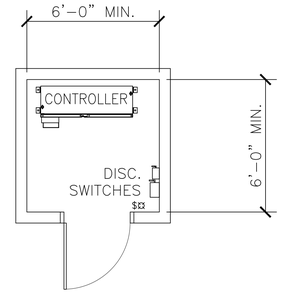
R2 = 5.4K / 9.8K

R3 = 9.3K / 17.7K

R4 = 9.4K / 17.8K

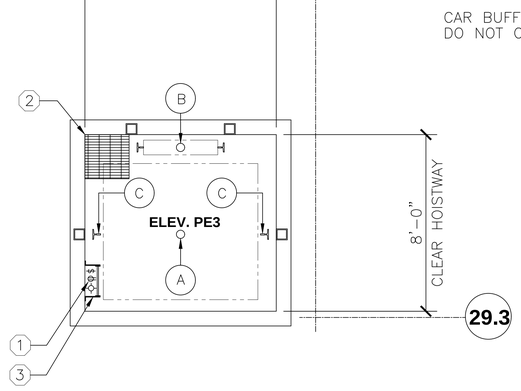
3 MACHINE SET5TING PLAN

SCALE: 3/8" = 1'-0"



4 CONTROLLER ROOM

SCALE: 3/8" = 1'-0"



PIT VERTICAL LOADS (IMPACT) :

(A) — 49.0K CAR BUFFER LOAD

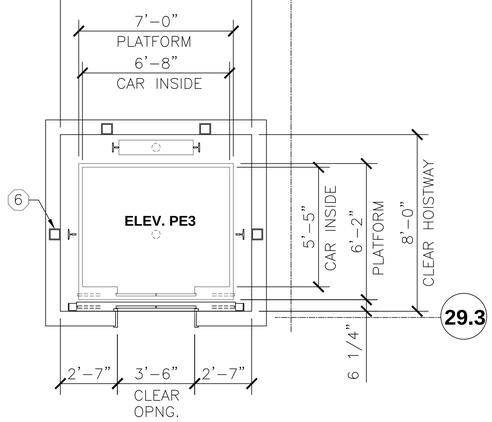
(B) — 39.8K CWT. BUFFER LOAD

(C) — 13.1K CAR RAIL LOADS AT SAFETY APPLICATION

CAR BUFFER AND CAR RAIL LOADS DO NOT OCCUR AT THE SAME TIME

2 PIT PLAN

SCALE: 3/8" = 1'-0"



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ELEVATOR NO.	CAPACITY	SPEED
PE3	3500 LBS	400 FPM

BIOLGENE THEORY
CP-2

TERMAN COURT
SAN DIE

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT SET

DESIGN DEVELOPMENT SET
04.25.17

Sheet Title

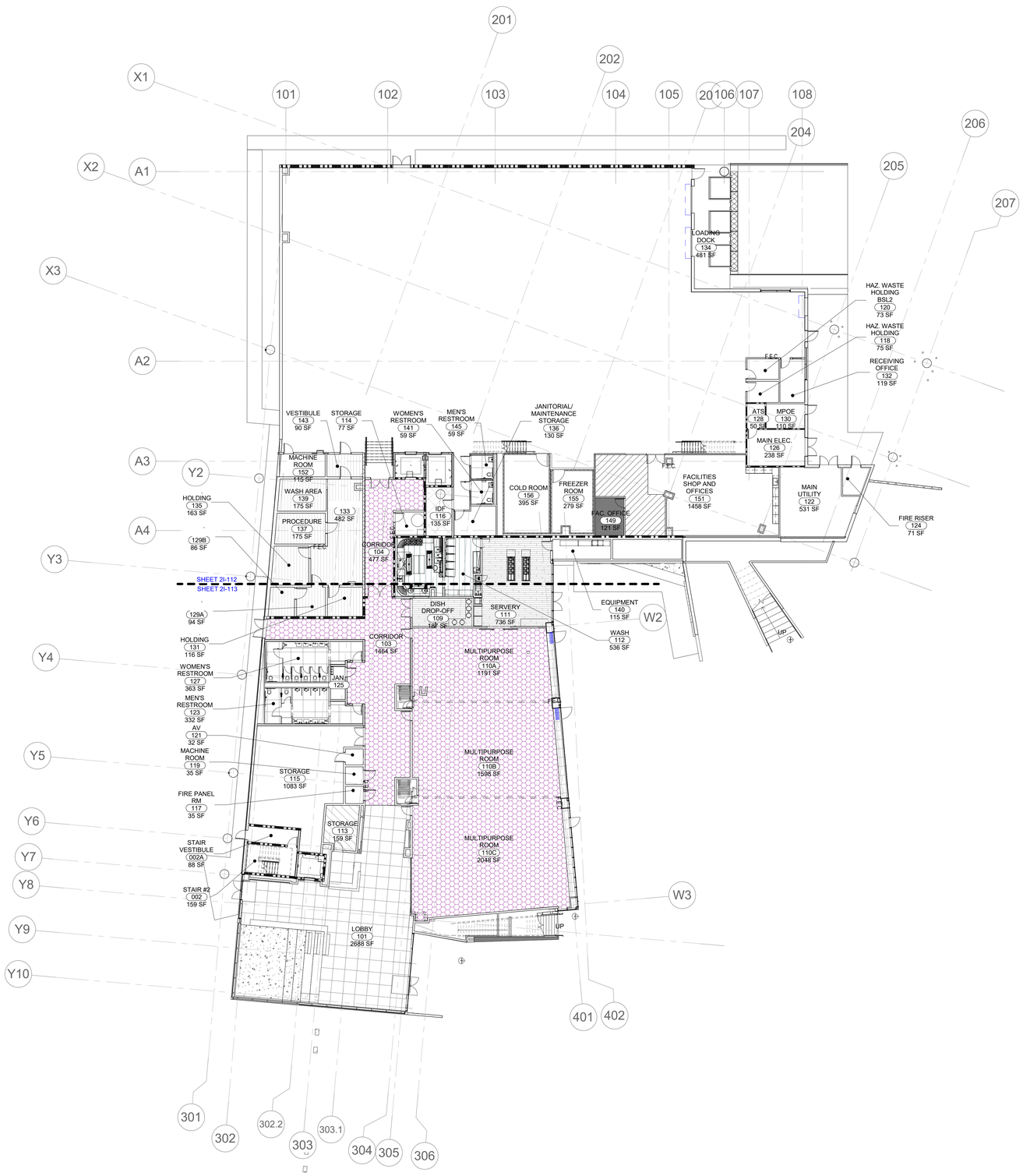
HOISTWAY & CONTROLLER ROOM PLAN

Sheet No.

2VT-PE3

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002

8/8/2017 10:18:44 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



GENERAL NOTES - INTERIOR

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2. ALL WRITTEN DIMENSIONS TAKE PRECEDENCE. VERIFY IN FEILD PRIOR TO COMMENCEMENT AND REPORT ANY DESCREPENCIES TO THE ARCHITECT OR DESIGNER.
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10. ALL DIMENSIONS IN ELEVATIONS ARE FROM THE FINISHED FLOOR.
11. SEE SHEET A1 / 2A-578 FOR MOUNTING HEIGHTS AND ALIGNMENTS OF LIGHT SWITCHES, THERMOSTATS, ETC.
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13. SEE SHEET 2I-601 FOR FINISH LEGEND
14. THE GENERAL CONTRACTOR TO CONFIRM ALL SWITCHPLATES, THERMOSTATS, DIMMING CONTROL, ETC. COVER COLORS WITH INTERIORS PRIOR TO ORDERING AND INSTALLING.
15. ALL WALL TO BE PAINTED P-1 U.O.N ON PLANS.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL
FIRST LEVEL
FINISH PLAN

Sheet No.

2I-111

A1 | **FINISH PLAN - LEVEL 01-Z2- OVERALL**

1/16" = 1'-0"

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

10/2/2017 4:25:25 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT
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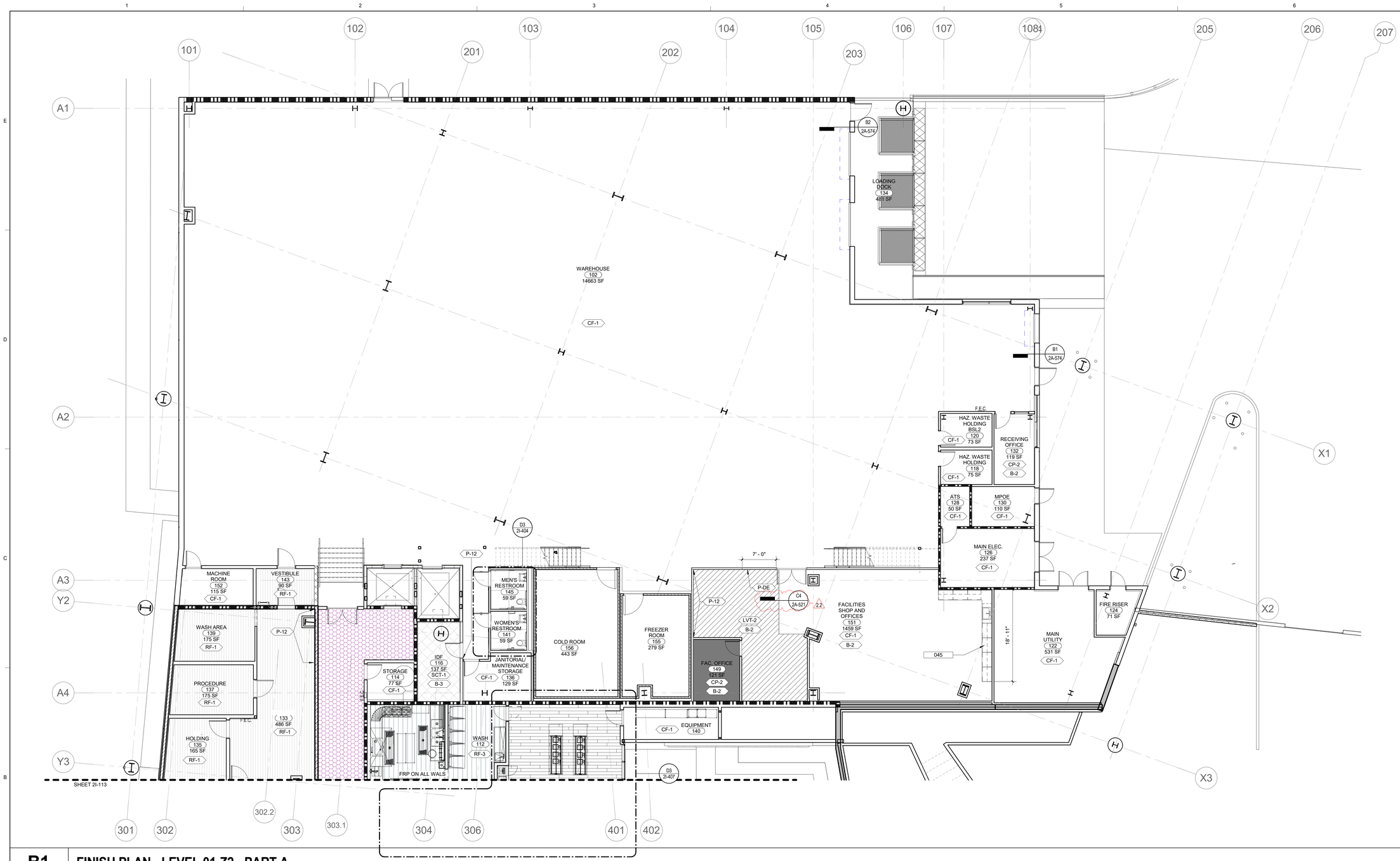

B1 FINISH PLAN - LEVEL 01-Z2 - PART A

1/8" = 1'-0"

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
045	BASE CABINETS WITH SOLID SURFACE COUNTER TOP AND HEAVY-DUTY UPPER WALL CABINETS AND SHELVES

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

GENERAL NOTES - INTERIOR

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GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

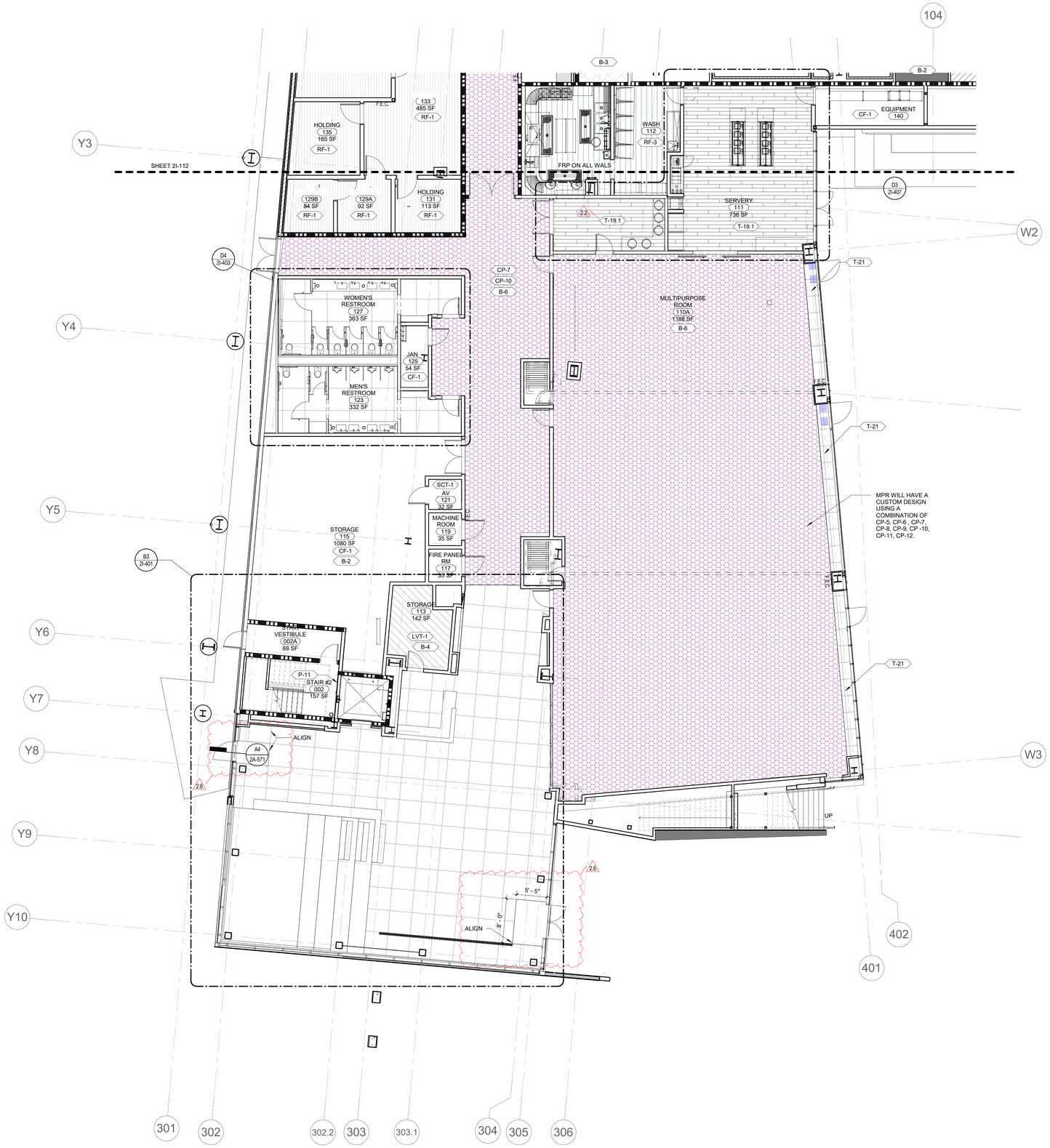
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
FIRST LEVEL FINISH PLAN - PART A

Sheet No.
2I-112

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



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15. ALL WALL TO BE PAINTED P-1 U.O.N ON PLANS.
16. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title

FIRST LEVEL FINISH PLAN - PART B

Sheet No.

2I-113

A1 FINISH PLAN - LEVEL 01-Z2- PART B

1/8" = 1'-0"

1/22/2018 9:35:34 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

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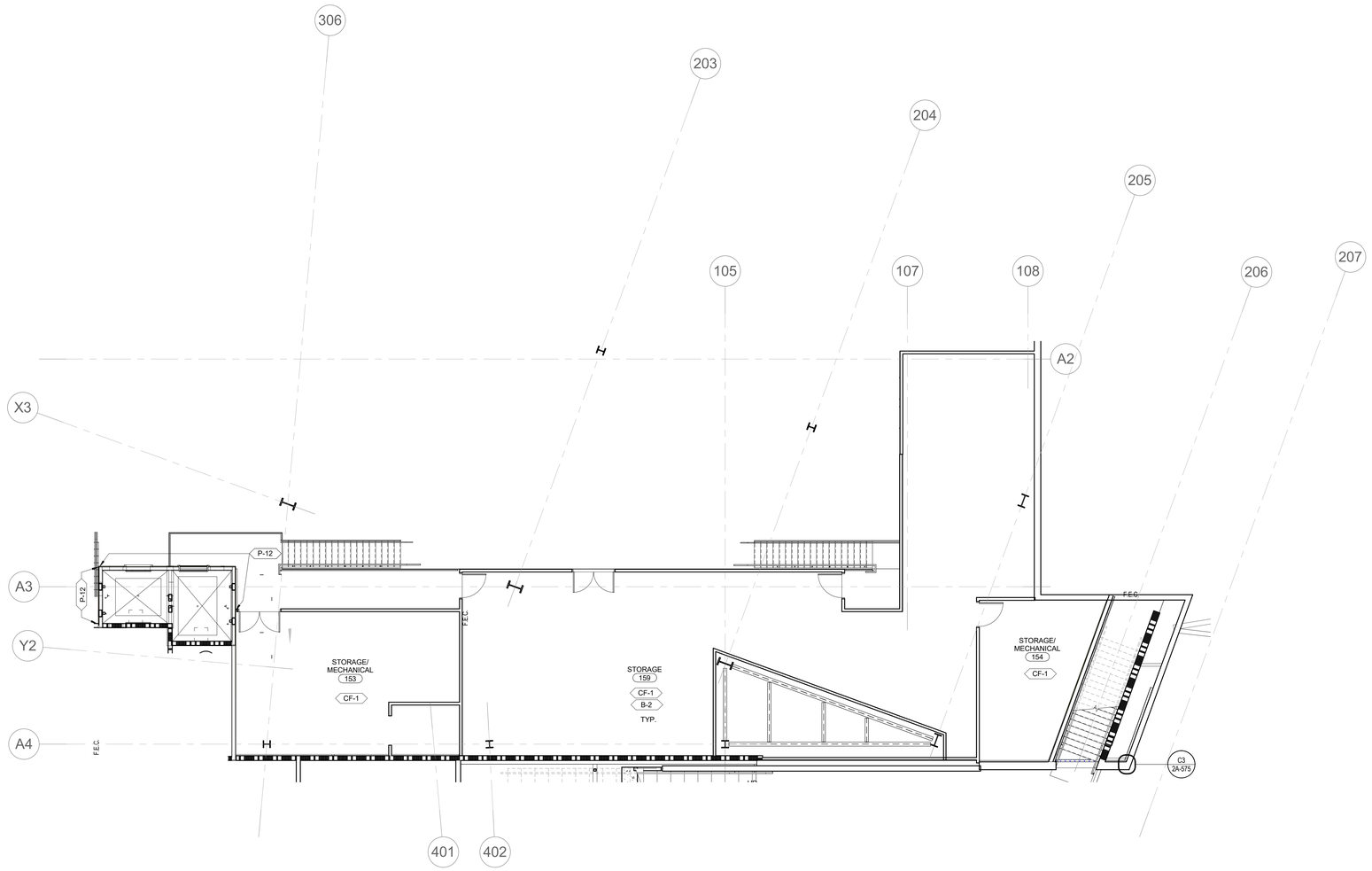

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REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

A1 LEVEL 01.9- MEZZANINE LEVEL FLOOR PLAN

1/8" = 1'-0"

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

MEZZANINE
FINISH PLAN

Sheet No.

2I-114

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

10/2/2017 2:10:35 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



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GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
OVERALL
SECOND LEVEL
FINISH PLAN

Sheet No.
2I-121

2.2
A1
FINISH PLAN - LEVEL 02-Z2 - OVERALL
1/16" = 1'-0"

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

11/20/2017 10:57:05 AM
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A1 FINISH PLAN - LEVEL 02-Z2 - PART A

1/8" = 1'-0"

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

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7. THE MILLWORK CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AND SUBMIT SHOP DRAWINGS FOR DESIGNER'S REVIEW AND APPROVAL PRIOR TO ORDERING AND FABRICATION.
8. ALL WALLS RECEIVING WALL COVERIGN TO HAVE A LEVEL 5 FINISH, U.N.O.
9. ALL FINISHES TO BE OF "CLASS A" RATING PER CBC.
10. ALL DIMENSIONS IN ELEVATIONS ARE FROM THE FINISHED FLOOR.
11. SEE SHEET A1 / 2A-578 FOR MOUNTING HEIGHTS AND ALIGNMENTS OF LIGHT SWITCHES, THERMOSTATS, ETC.
12. ALL MECHANICAL GRILLES AND DIFFUSERS LOCATED IN WALLS TO BE PAINTED TO MATCH THE ADJACENT SURFACE.
13. SEE SHEET 2I-601 FOR FINISH LEGEND
14. THE GENERAL CONTRACTOR TO CONFIRM ALL SWITCHPLATES, THERMOSTATS, DIMMING CONTROL, ETC. COVER COLORS WITH INTERIORS PRIOR TO ORDERING AND INSTALLING.
15. ALL WALL TO BE PAINTED P-1 U.O.N ON PLANS.
16. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

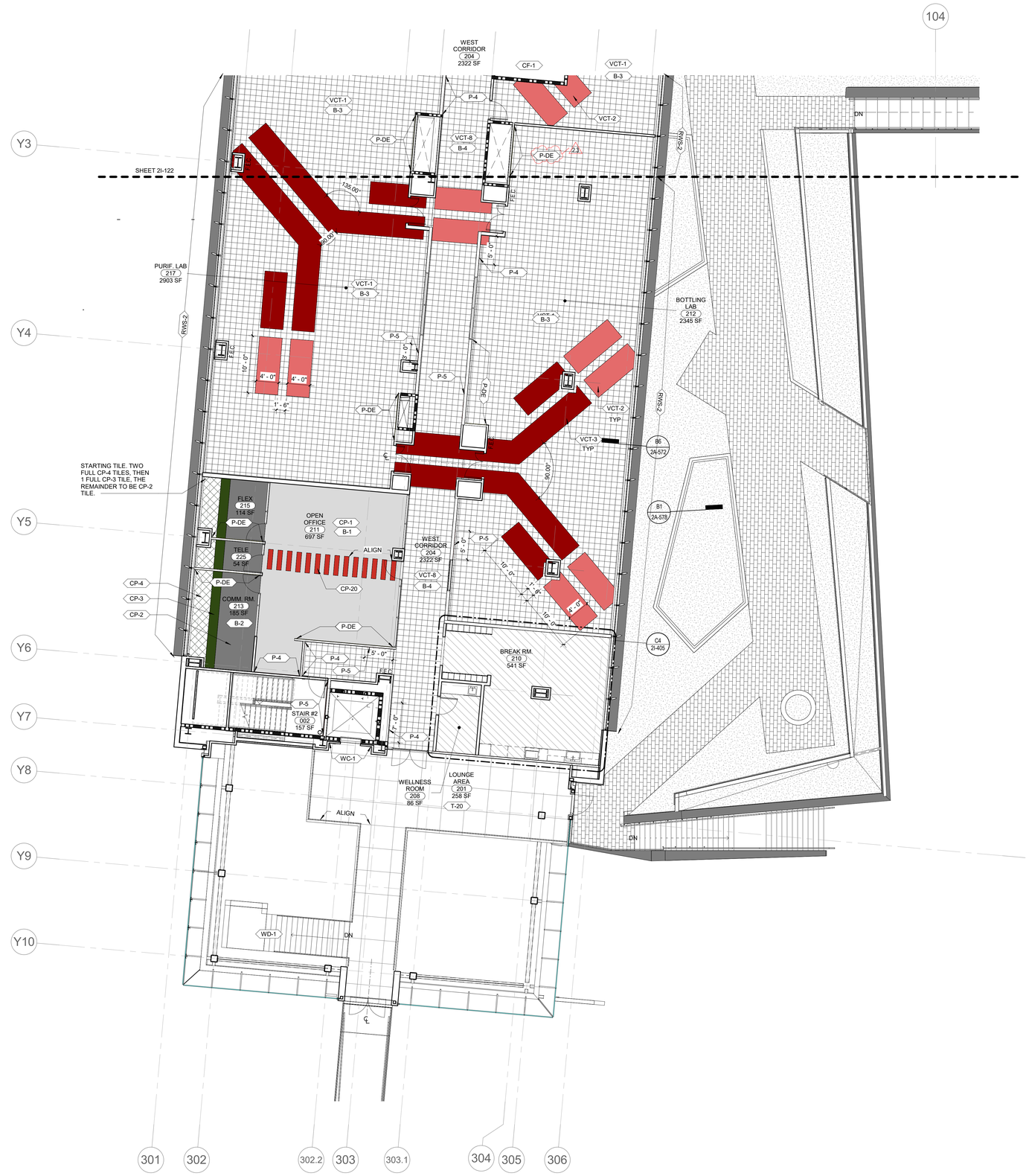
SECOND LEVEL FINISH PLAN - PART A

Sheet No.

2I-122

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/20/2017 10:57:23 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



GENERAL NOTES - INTERIOR

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. ALL WRITTEN DIMENSIONS TAKE PRECEDENCE. VERIFY IN FEILD PRIOR TO COMMENCEMENT AND REPORT ANY DESCREPENCIES TO THE ARCHITECT OR DESIGNER.
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15. ALL WALL TO BE PAINTED P-1 U.O.N ON PLANS.
16. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

SECOND LEVEL FINISH PLAN - PART B

Sheet No.

2I-123

A1 **FINISH PLAN - LEVEL 02-Z2 - PART B**

1/8" = 1'-0"

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



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15. ALL WALL TO BE PAINTED P-1 U.O.N ON PLANS.

10/2/2017 2:11:30 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

2.2

A1 FINISH PLAN - LEVEL 03-Z2 - OVERALL

1/16" = 1'-0"

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
OVERALL
THIRD LEVEL
FINISH PLAN

Sheet No.
2I-131

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

10/2/2017 2:11:48 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



A1 FINISH PLAN - LEVEL 03-Z2 - PART A

1/8" = 1'-0"

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

GENERAL NOTES - INTERIOR

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15. ALL WALL TO BE PAINTED P-1 U.O.N ON PLANS.

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

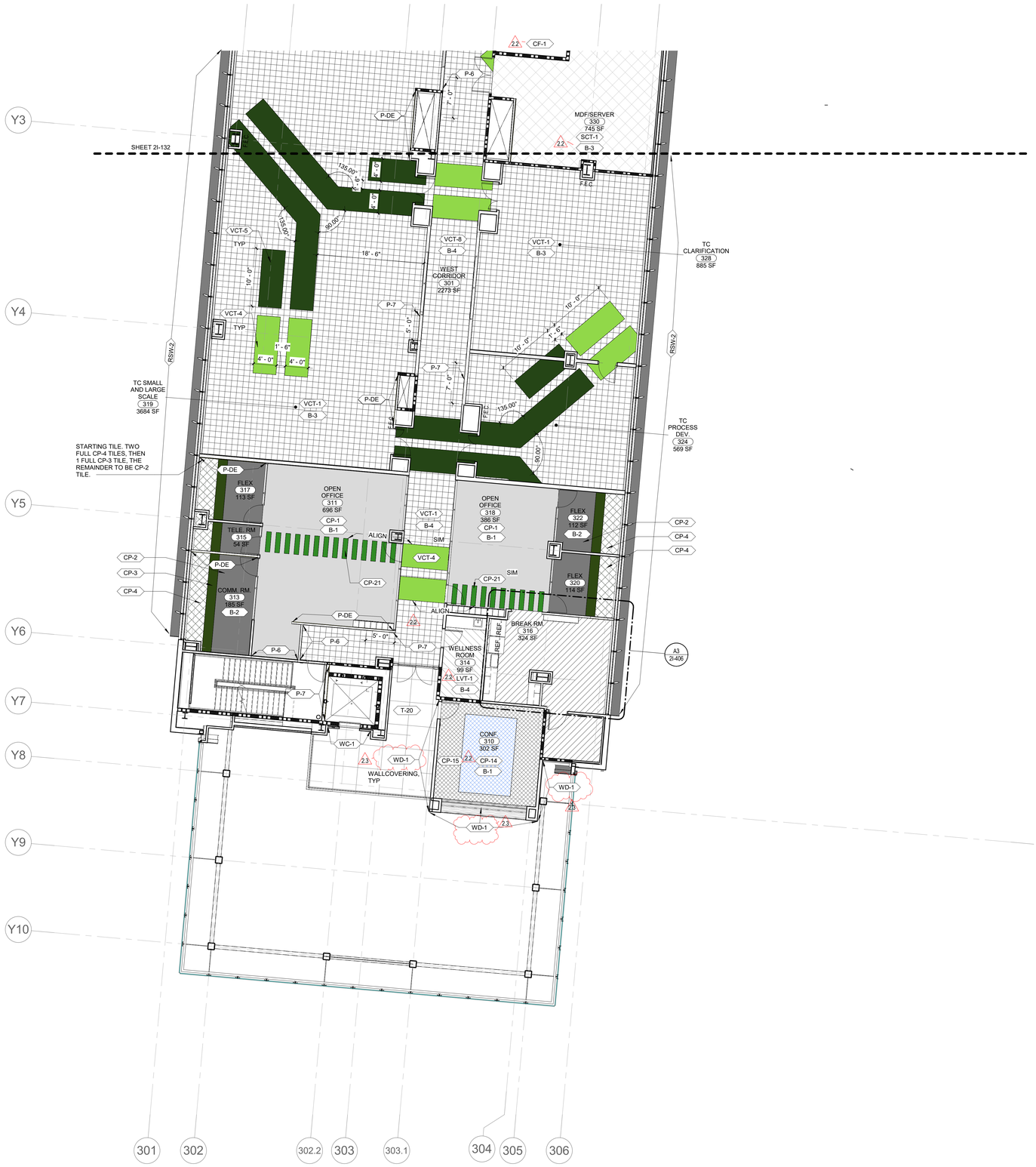
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
THIRD LEVEL FINISH PLAN - PART A

Sheet No.
2I-132

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



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15. ALL WALL TO BE PAINTED P-1 U.O.N ON PLANS.
16. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

THIRD LEVEL FINISH PLAN - PART B

Sheet No.

2I-133

A1 FINISH PLAN - LEVEL 03-Z2 - PART B

1/8" = 1'-0"

11/20/2017 10:57:40 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSES WHATSOEVER WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

10/2/2017 2:12:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



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GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
OVERALL
FOURTH LEVEL
FINISH PLAN

Sheet No.
2I-141

2.2

A1 FINISH PLAN - LEVEL 04-Z2- OVERALL

1/16" = 1'-0"

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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A1 FINISH PLAN - LEVEL 04-Z2- PART A

1/8" = 1'-0"

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

GENERAL NOTES - INTERIOR

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GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

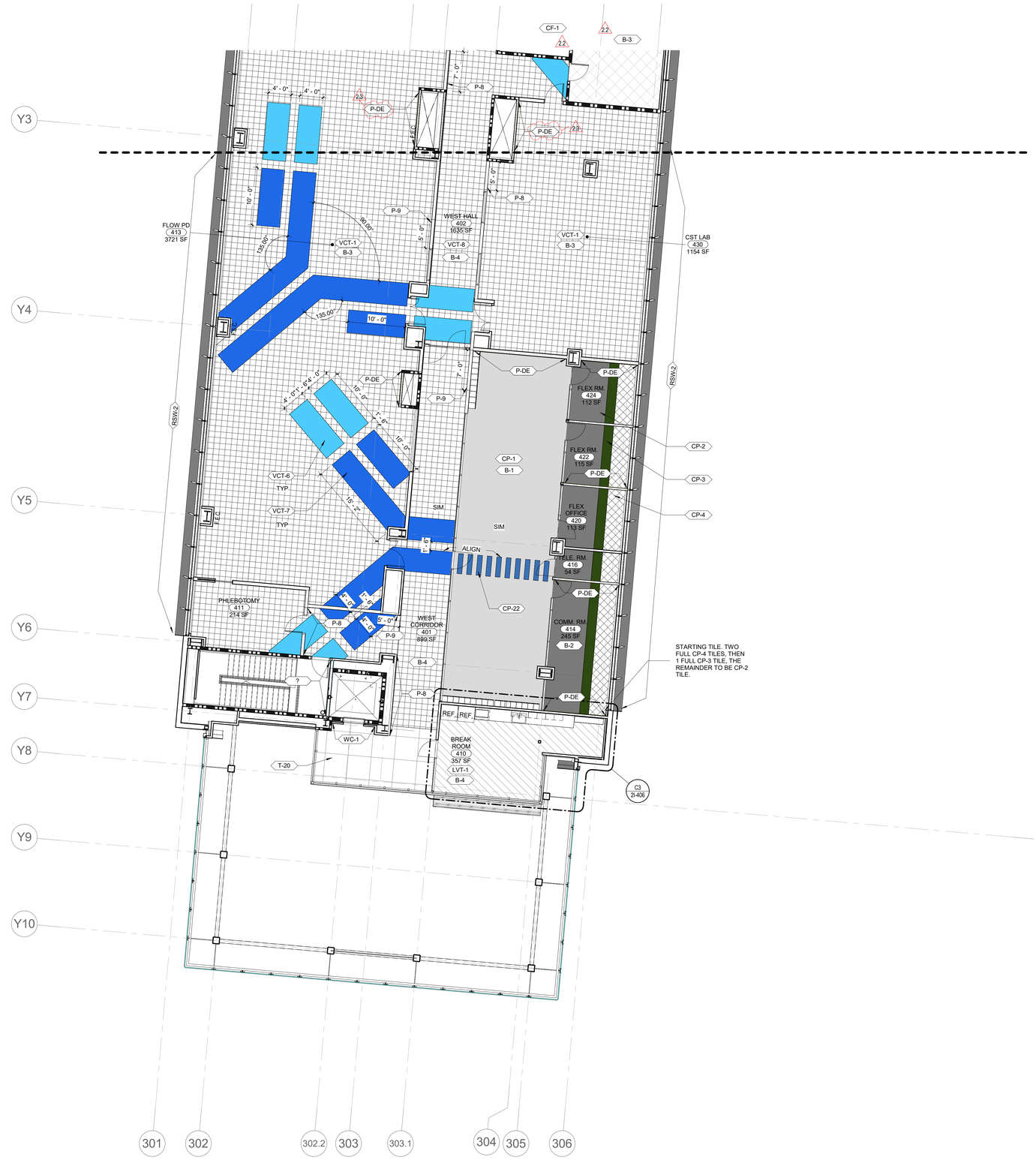
Sheet Title
FOURTH LEVEL FINISH PLAN - PART A

Sheet No.
2I-142

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

11/20/2017 10:58:09 AM



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REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title

FOURTH LEVEL FINISH PLAN - PART B

Sheet No.

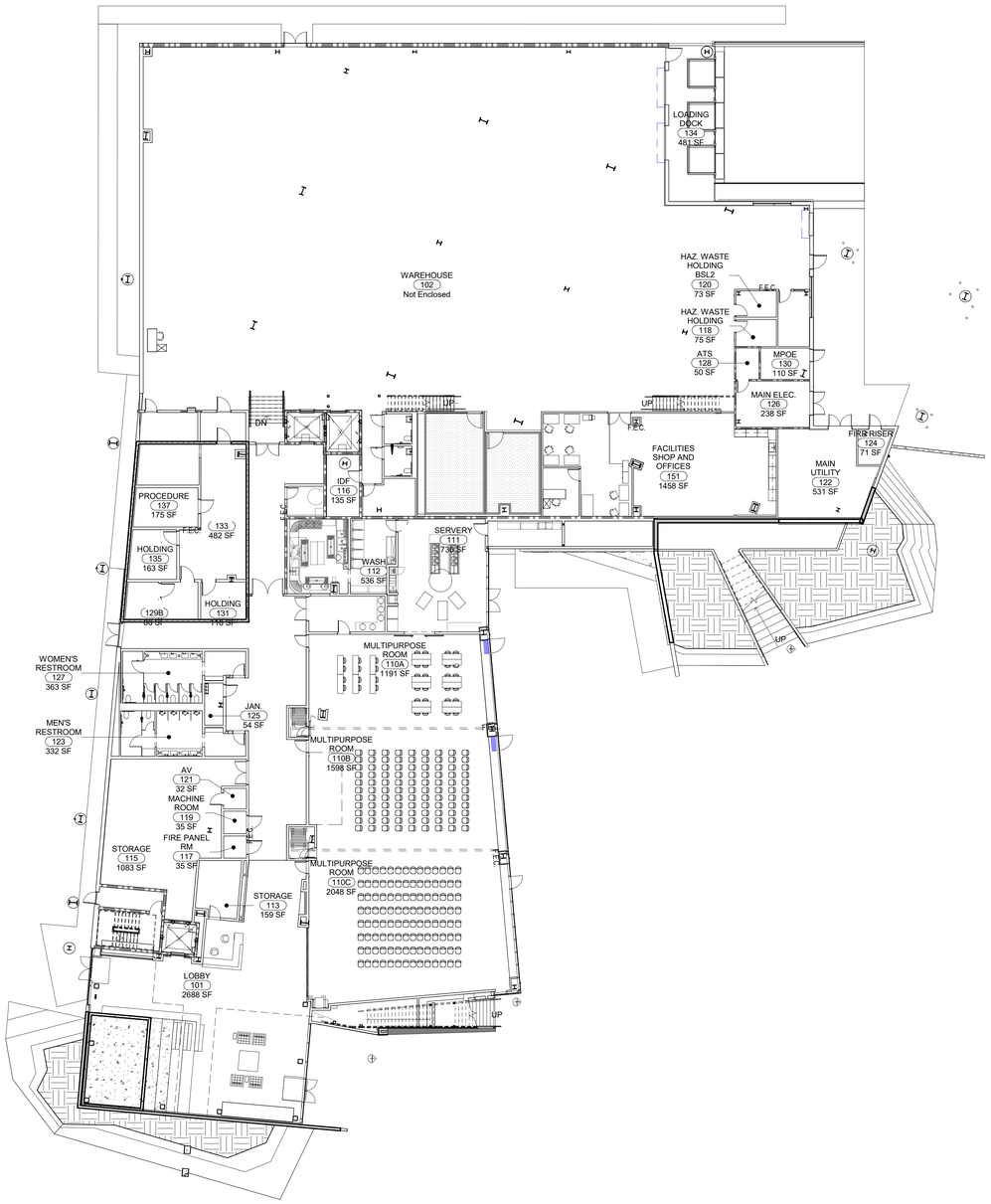
2I-143

A1 | **FINISH PLAN - LEVEL 04-Z2- PART B**

1/8" = 1'-0"

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

8/8/2017 10:21:55 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



A1	**LEVEL 01-Z2 - OVERALL FURNITURE PLAN**	
D1 / 2A-203	1/16" = 1'-0"	

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

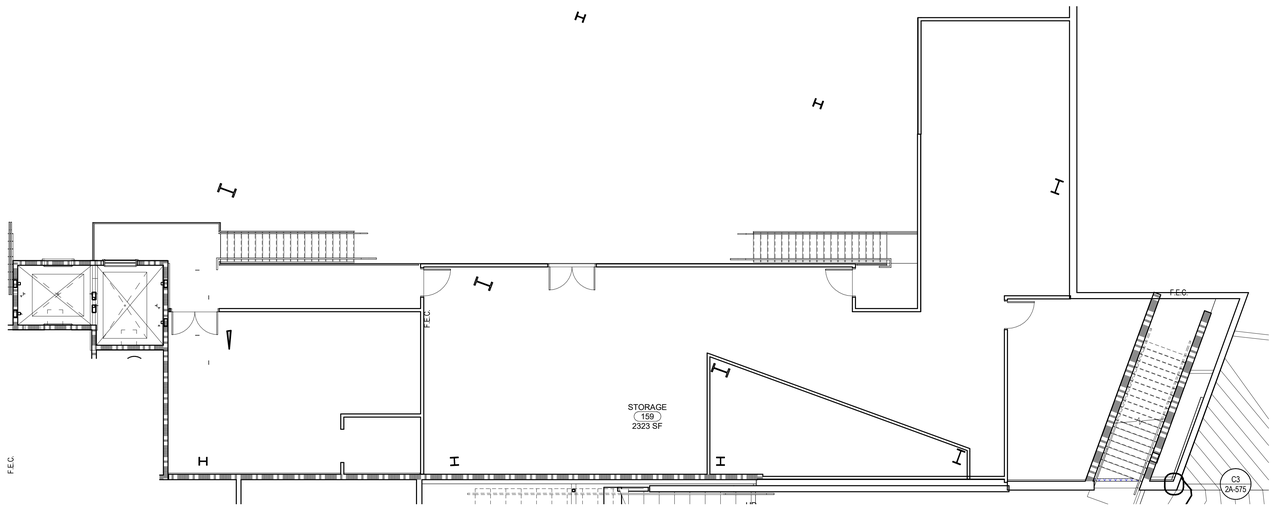
OVERALL FIRST LEVEL FURNITURE PLAN

Sheet No.

2I-161

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

8/8/2017 10:22:00 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT



A1 LEVEL 01.9- MEZZANINE LEVEL FURNITURE PLAN

B5 / 2A-208 | 1/8" = 1'-0"

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

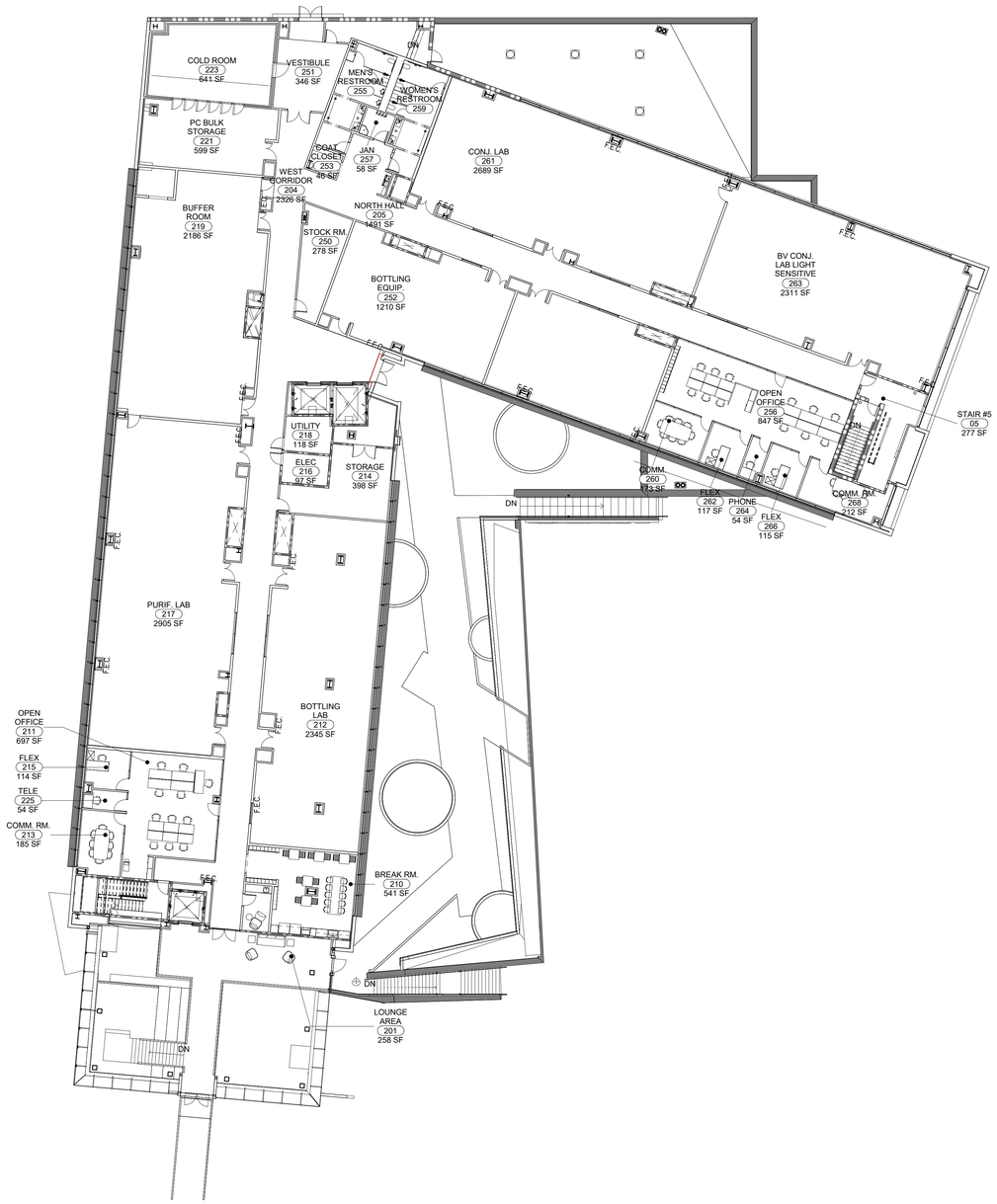
Sheet Title

OVERALL MEZZANINE FURNITURE PLAN

Sheet No.

2I-164

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



A1 LEVEL 02- OVERALL FURNITURE PLAN

A1 / 2A-202

1/16" = 1'-0"

8/8/2017 10:22:14 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

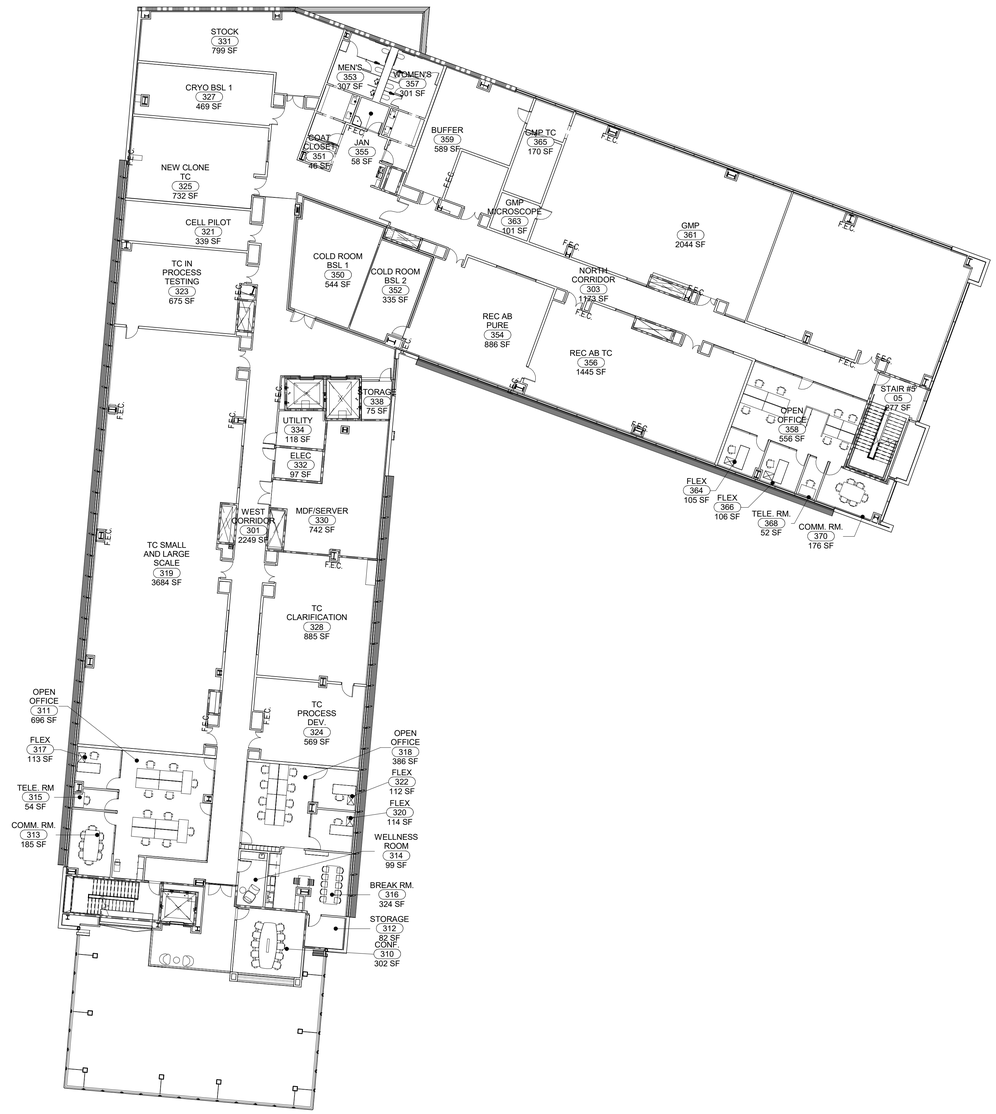
OVERALL SECOND LEVEL FURNITURE PLAN

Sheet No.

2I-171

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

8/8/2017 10:22:28 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



A1	**LEVEL 03- OVERALL FURNITURE PLAN**
B3 / 2A-202	1/16" = 1'-0"

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

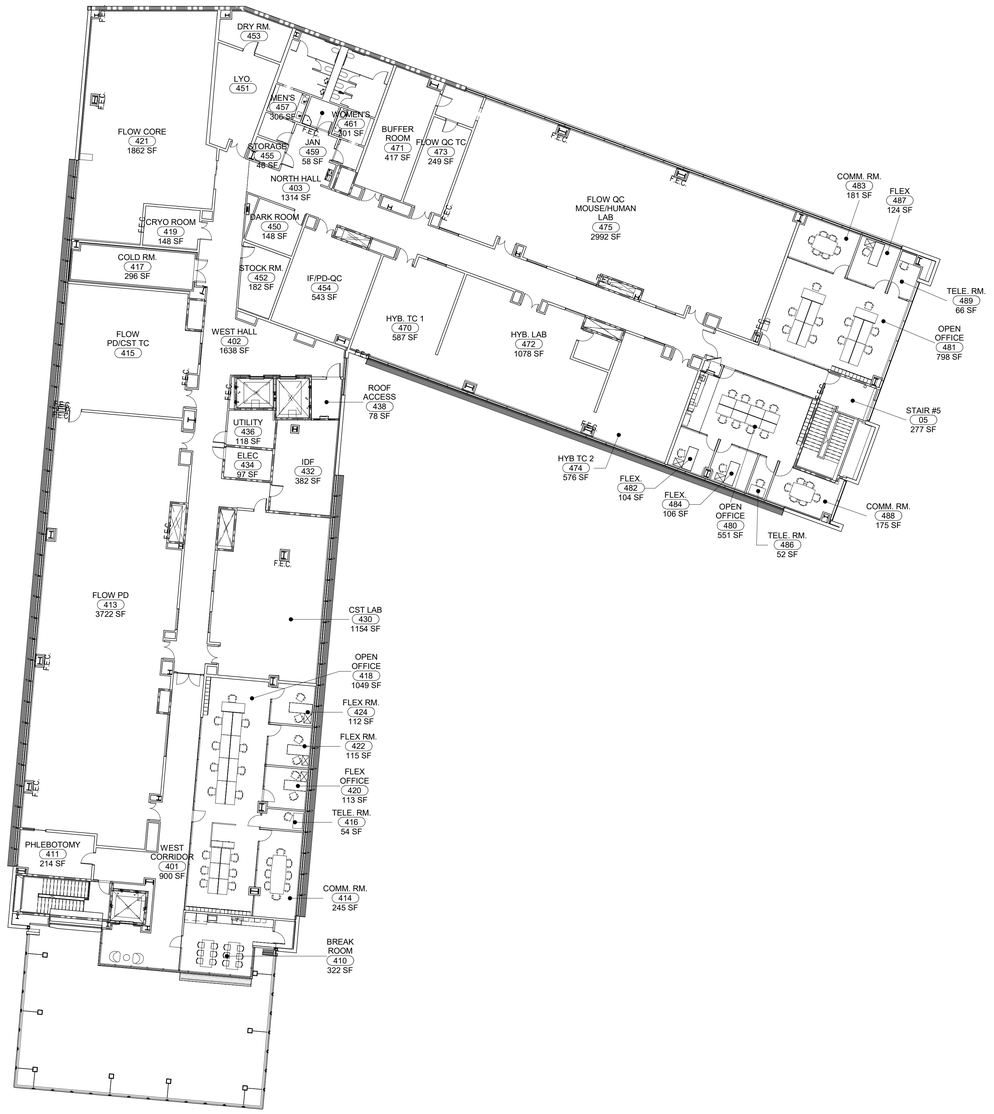
OVERALL THIRD LEVEL FURNITURE PLAN

Sheet No.

2I-181

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

8/8/2017 10:22:42 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT



A1	LEVEL 04- OVERALL FURNITURE PLAN
B3 / 2A-202	1/16" = 1'-0"

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

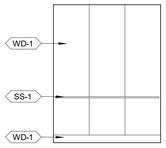
OVERALL FOURTH LEVEL FURNITURE PLAN

Sheet No.

2I-191

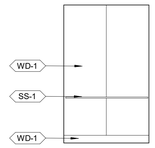
DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



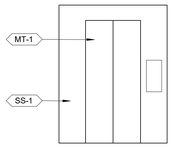
E1 PE3- INTERIOR CAB ELEVATION- NORTH

B3 / 2I-401 | 1/4" = 1'-0"



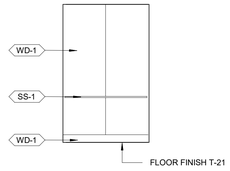
E2 PE3- INTERIOR CAB ELEVATION- EAST

B3 / 2I-401 | 1/4" = 1'-0"



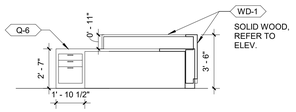
D1 PE3- INTERIOR CAB ELEVATION- SOUTH

B3 / 2I-401 | 1/4" = 1'-0"



D2 PE3- INTERIOR CAB ELEVATION- WEST

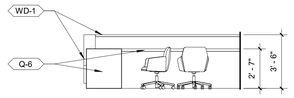
B3 / 2I-401 | 1/4" = 1'-0"



2.3

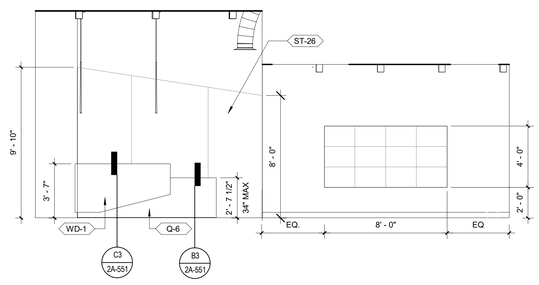
C1 RECEPTION DESK EAST

B3 / 2I-401 | 1/4" = 1'-0"



C2 RECEPTION DESK SOUTH

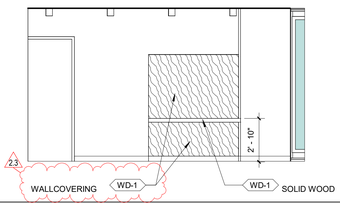
B3 / 2I-401 | 1/4" = 1'-0"



2.2

B1 RECEPTION INTERIOR ELEVATION- WEST A

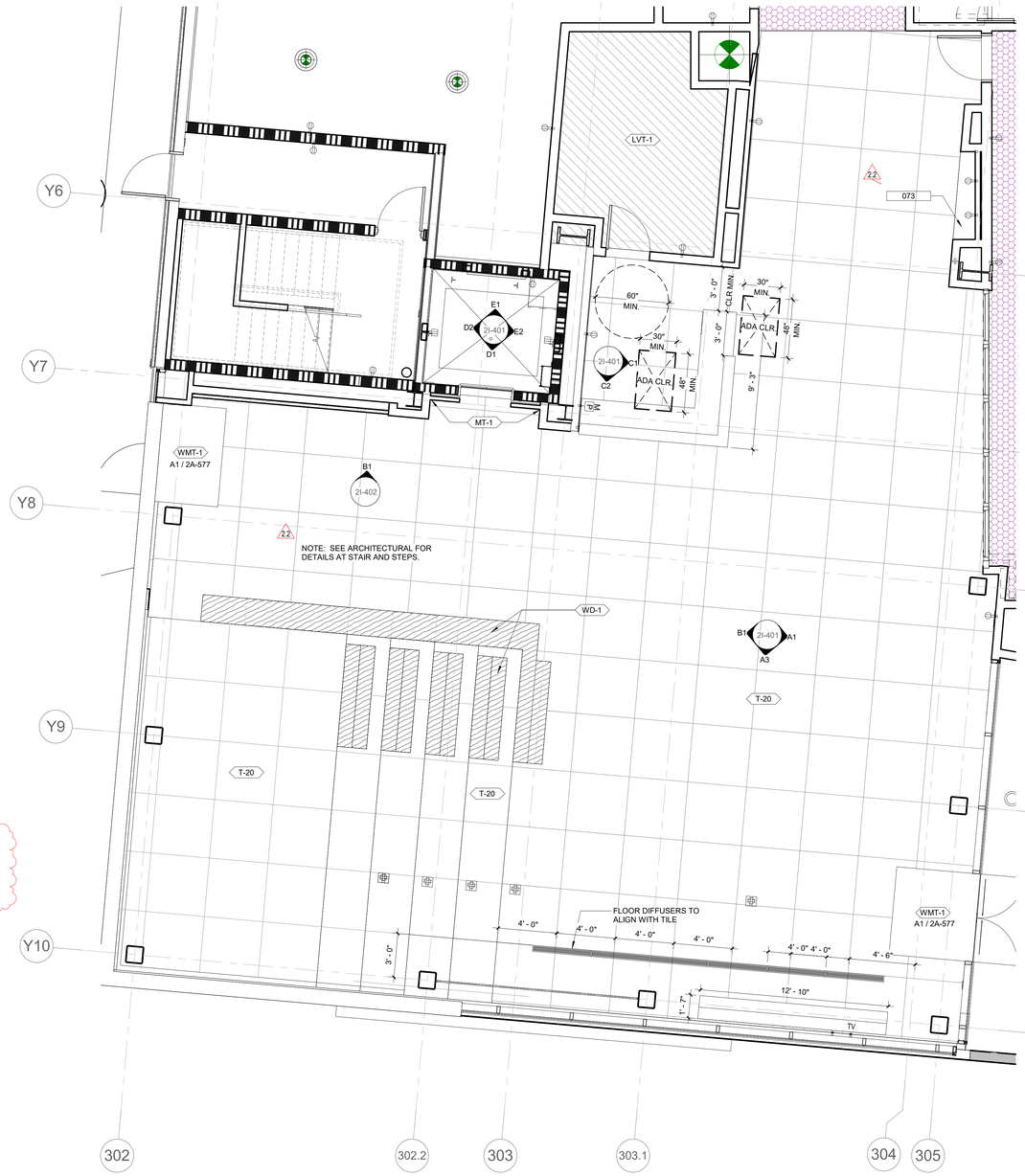
B3 / 2I-401 | 1/4" = 1'-0"



2.2

A1 LOBBY INTERIOR ELEVATION- EAST

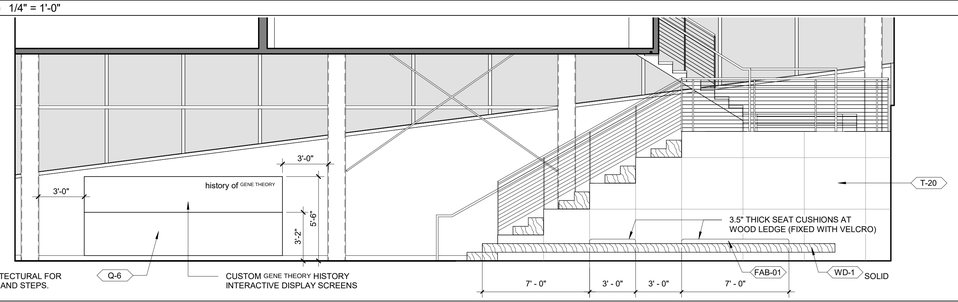
B3 / 2I-401 | 1/4" = 1'-0"



2.3

B3 FINISH PLAN - ENLARGED LOBBY PLAN

D1 / 2A-203 | 1/4" = 1'-0"



2.3

A3 LOBBY INTERIOR ELEVATION- SOUTH

B3 / 2I-401 | 1/4" = 1'-0"

GENERAL NOTES - INTERIOR

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. ALL WRITTEN DIMENSIONS TAKE PRECEDENCE. VERIFY IN FEILD PRIOR TO COMMENCEMENT AND REPORT ANY DESCREPENCIES TO THE ARCHITECT OR DESIGNER.
3. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES.
4. THE GENERAL CONTRACTOR TO PROVIDE ALL NECESSARY BLOCKING AND BACKING FOR WALL MOUNTED ACCESSORIES, EQUIPMENT, AND FIXTURES PER THE MANUFACTURER'S RECOMMENDATIONS.
5. THE GENERAL CONTRACTOR TO SUBMIT FINISH SAMPLES AND PRODUCT DATA OF ALL MATERIALS FOR DESIGNER'S REVIEW AND APPROVAL PRIOR TO ORDERING AND FABRICATION.
6. THE GENERAL CONTRACTOR TO SUMBIT SEAMING DIAGRAMS AND TILE LAYOUT DRAWINGS FOR DESIGNER'S REVIEW AND APPROVAL PRIOR TO ORDERING AND FABRICATION. CONTRACTOR TO NOTIFY DESIGNER IF TILE LAYOUT WILL RESULT IN TILES LESS THAN 2" IN WIDTH.
7. THE MILLWORK CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AND SUBMIT SHOP DRAWINGS FOR DESIGNER'S REVIEW AND APPROVAL PRIOR TO ORDERING AND FABRICATION.
8. ALL WALLS RECEIVING WALL COVERING TO HAVE A LEVEL 5 FINISH, U.N.O.
9. ALL FINISHES TO BE OF "CLASS A" RATING PER CBC.
10. ALL DIMENSIONS IN ELEVATIONS ARE FROM THE FINISHED FLOOR.
11. SEE SHEET A1 / 2A-578 FOR MOUNTING HEIGHTS AND ALIGNMENTS OF LIGHT SWITCHES, THERMOSTATS, ETC.
12. ALL MECHANICAL GRILLES AND DIFFUSERS LOCATED IN WALLS TO BE PAINTED TO MATCH THE ADJACENT SURFACE.
13. SEE SHEET 2I-601 FOR FINISH LEGEND
14. THE GENERAL CONTRACTOR TO CONFIRM ALL SWITCHPLATES, THERMOSTATS, DIMMING CONTROL, ETC. COVER COLORS WITH INTERIORS PRIOR TO ORDERING AND INSTALLING.
15. ALL WALL TO BE PAINTED P-1 U.O.N ON PLANS.
16. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
073	FLOOR FINISH TO CONTINUE UNDER MILLWORK

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
ENLARGED DRAWINGS

Sheet No.
2I-401

11/20/2017 11:20:38 AM
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Link to the Sheet - 2G-002

11/20/2017 10:58:39 AM
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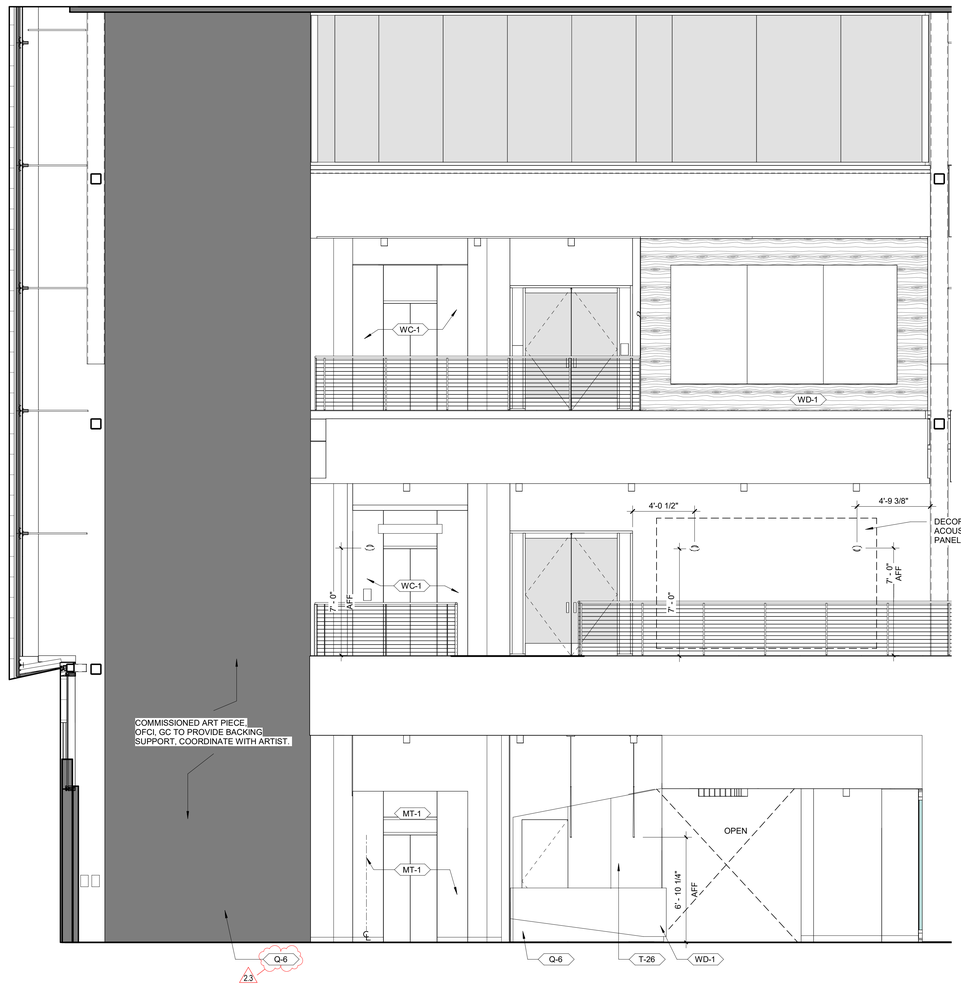
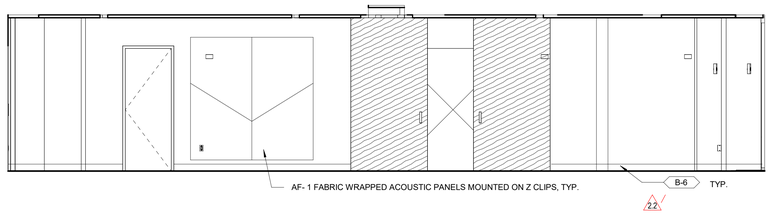


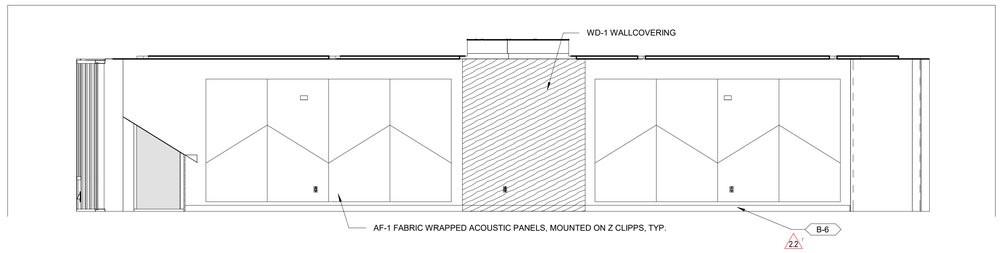
B1 LOBBY INTERIOR ELEVATION - NORTH

B3 / 2I-401 | 1/4" = 1'-0"



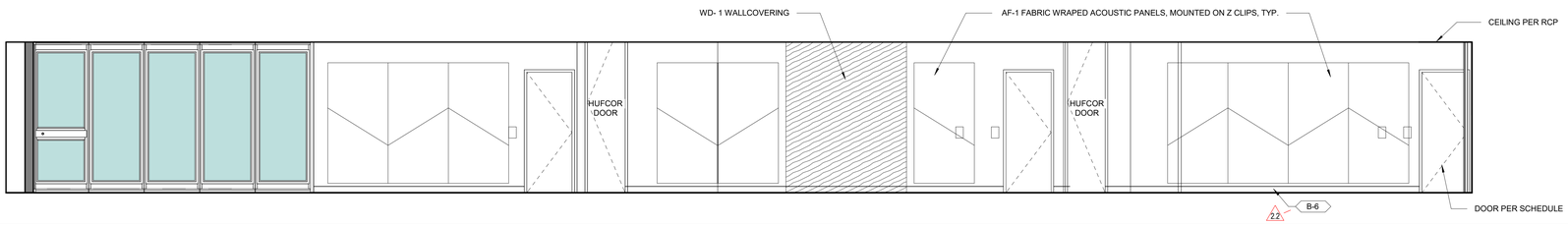
C4 MPR - NORTH

1/4" = 1'-0"



B4 MPR - SOUTH

B3 / 2I-401 | 1/4" = 1'-0"



A1 MPR - WEST

D3 / 2I-407 | 1/4" = 1'-0"

GENERAL NOTES - INTERIOR

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. ALL WRITTEN DIMENSIONS TAKE PRECEDENCE. VERIFY IN FEILD PRIOR TO COMMENCEMENT AND REPORT ANY DESCREPENCIES TO THE ARCHITECT OR DESIGNER.
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4. THE GENERAL CONTRACTOR TO PROVIDE ALL NECESSARY BLOCKING AND BACKING FOR WALL MOUNTED ACCESSORIES, EQUIPMENT, AND FIXTURES PER THE MANUFACTURER'S RECOMMENDATIONS.
5. THE GENERAL CONTRACTOR TO SUBMIT FINISH SAMPLES AND PRODUCT DATA OF ALL MATERIALS FOR DESIGNER'S REVIEW AND APPROVAL PRIOR TO ORDERING AND FABRICATION.
6. THE GENERAL CONTRACTOR TO SUMBIT SEAMING DIAGRAMS AND TILE LAYOUT DRAWINGS FOR DESIGNER'S REVIEW AND APPROVAL PRIOR TO ORDERING AND FABRICATION . CONTRACTOR TO NOTIFY DESIGNER IF TILE LAYOUT WILL RESULT IN TILES LESS THAN 2" IN WIDTH.
7. THE MILLWORK CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AND SUBMIT SHOP DRAWINGS FOR DESIGNER'S REVIEW AND APPROVAL PRIOR TO ORDERING AND FABRICATION.
8. ALL WALLS RECEIVING WALL COVERIGN TO HAVE A LEVEL 5 FINISH, U.N.O.
9. ALL FINISHES TO BE OF "CLASS A" RATING PER CBC.
10. ALL DIMENSIONS IN ELEVATIONS ARE FROM THE FINISHED FLOOR.
11. SEE SHEET A1 / 2A-578 FOR MOUNTING HEIGHTS AND ALIGNMENTS OF LIGHT SWITCHES, THERMOSTATS, ETC.
12. ALL MECHANICAL GRILLES AND DIFFUSERS LOCATED IN WALLS TO BE PAINTED TO MATCH THE ADJACENT SURFACE.
13. SEE SHEET 2I-601 FOR FINISH LEGEND
14. THE GENERAL CONTRACTOR TO CONFIRM ALL SWITCHPLATES, THERMOSTATS, DIMMING CONTROL, ETC. COVER COLORS WITH INTERIORS PRIOR TO ORDERING AND INSTALLING.
15. ALL WALL TO BE PAINTED P-1 U.O.N ON PLANS.
16. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
ENLARGED DRAWINGS

Sheet No.
2I-402

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

1/2/2018 9:36:20 AM
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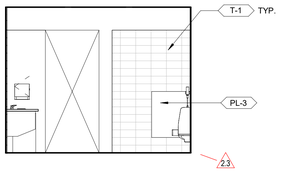


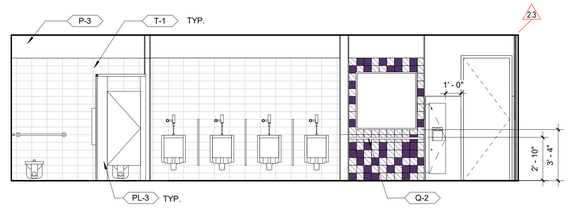
E1 LVL 01 -MEN'S RESTROOM 123- WEST B

D4 / 2I-403 | 1/4" = 1'-0"



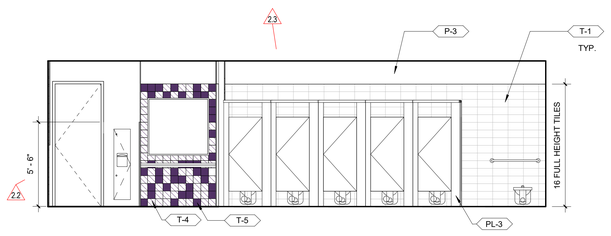
D1 LVL 01 -MEN'S RESTROOM 123- SOUTH

D4 / 2I-403 | 1/4" = 1'-0"



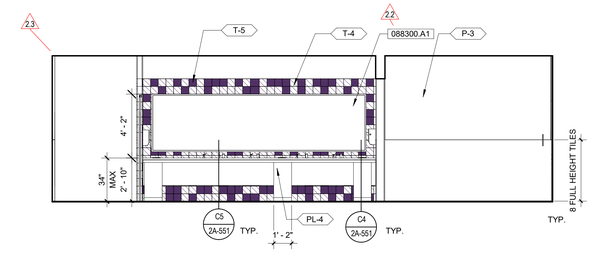
C1 LVL 01 -MEN'S RESTROOM 123- NORTH

D4 / 2I-403 | 1/4" = 1'-0"



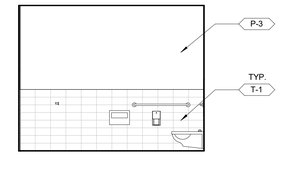
B1 LVL 01 -WOMEN'S RESTROOM 127- SOUTH

D4 / 2I-403 | 1/4" = 1'-0"



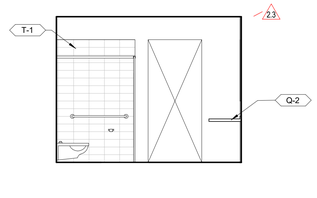
A1 LVL 01 -WOMEN'S RESTROOM 127 - NORTH

D4 / 2I-403 | 1/4" = 1'-0"



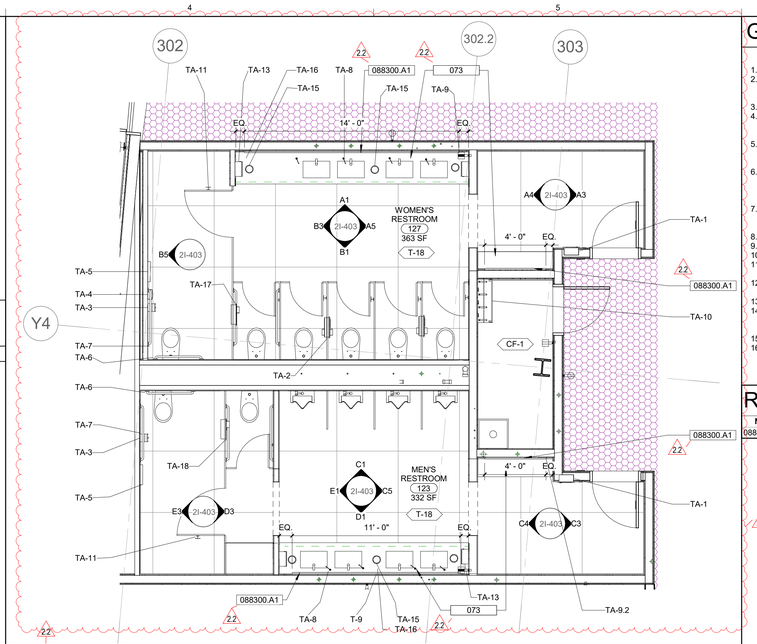
E3 LVL 01 -MEN'S RESTROOM 123- WEST C

D4 / 2I-403 | 1/4" = 1'-0"



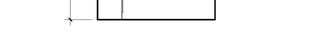
D3 LVL 01 -MEN'S RESTROOM 123- EAST C

D4 / 2I-403 | 1/4" = 1'-0"



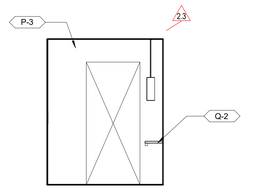
D4 FINISH PLAN - ENLARGED LOBBY RESTROOM PLANS

D1 / 2A-203 | 1/4" = 1'-0"



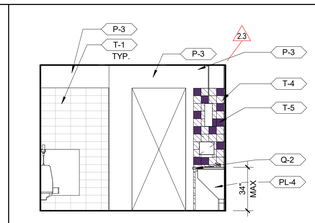
C3 LVL 01 -MEN'S RESTROOM 123- EAST A

D4 / 2I-403 | 1/4" = 1'-0"



C4 LVL 01 -MEN'S RESTROOM 123- WEST A

D4 / 2I-403 | 1/4" = 1'-0"

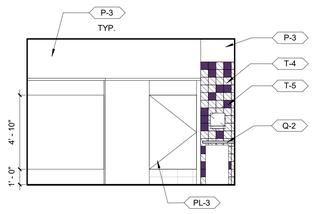


C5 LVL 01 -MEN'S RESTROOM 123- EAST B

D4 / 2I-403 | 1/4" = 1'-0"

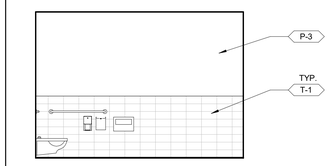
B3 LVL 01 -WOMEN'S RESTROOM 127- WEST B

D4 / 2I-403 | 1/4" = 1'-0"



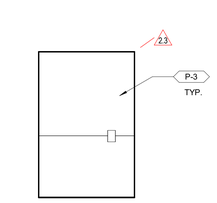
B5 LVL 01 -WOMEN'S RESTROOM 127-WEST C

D4 / 2I-403 | 1/4" = 1'-0"



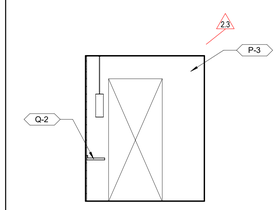
A1 LVL 01 -WOMEN'S RESTROOM 127 - NORTH

D4 / 2I-403 | 1/4" = 1'-0"



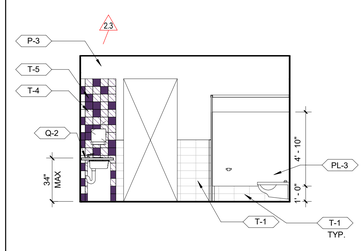
A3 LVL 01 -WOMEN'S RESTROOM 127- EAST A

D4 / 2I-403 | 1/4" = 1'-0"



A4 LVL 01 -WOMEN'S RESTROOM 127- WEST A

D4 / 2I-403 | 1/4" = 1'-0"



A5 LVL 01 -WOMEN'S RESTROOM 127- EAST B

D4 / 2I-403 | 1/4" = 1'-0"

GENERAL NOTES - INTERIOR

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. ALL WRITTEN DIMENSIONS TAKE PRECEDENCE. VERIFY IN FEILD PRIOR TO COMMENCEMENT AND REPORT ANY DESCREPENCIES TO THE ARCHITECT OR DESIGNER.
3. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES.
4. THE GENERAL CONTRACTOR TO PROVIDE ALL NECESSARY BLOCKING AND BACKING FOR WALL MOUNTED ACCESSORIES, EQUIPMENT, AND FIXTURES PER THE MANUFACTURER'S RECOMMENDATIONS.
5. THE GENERAL CONTRACTOR TO SUBMIT FINISH SAMPLES AND PRODUCT DATA OF ALL MATERIALS FOR DESIGNER'S REVIEW AND APPROVAL PRIOR TO ORDERING AND FABRICATION.
6. THE GENERAL CONTRACTOR TO SUMBIT SEAMING DIAGRAMS AND TILE LAYOUT DRAWINGS FOR DESIGNER'S REVIEW AND APPROVAL PRIOR TO ORDERING AND FABRICATION. CONTRACTOR TO NOTIFY DESIGNER IF TILE LAYOUT WILL RESULT IN TILES LESS THAN 2" IN WIDTH.
7. THE MILLWORK CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AND SUBMIT SHOP DRAWINGS FOR DESIGNER'S REVIEW AND APPROVAL PRIOR TO ORDERING AND FABRICATION.
8. ALL WALLS RECEIVING WALL COVERIGN TO HAVE A LEVEL 5 FINISH, U.N.O.
9. ALL FINISHES TO BE OF "CLASS A" RATING PER CBC.
10. ALL DIMENSIONS IN ELEVATIONS ARE FROM THE FINISHED FLOOR.
11. SEE SHEET A1 / 2A-578 FOR MOUNTING HEIGHTS AND ALIGNMENTS OF LIGHT SWITCHES, THERMOSTATS, ETC.
12. ALL MECHANICAL GRILLES AND DIFFUSERS LOCATED IN WALLS TO BE PAINTED TO MATCH THE ADJACENT SURFACE.
13. SEE SHEET 2I-601 FOR FINISH LEGEND
14. THE GENERAL CONTRACTOR TO CONFIRM ALL SWITCHPLATES, THERMOSTATS, DIMMING CONTROL, ETC. COVER COLORS WITH INTERIORS PRIOR TO ORDERING AND INSTALLING.
15. ALL WALL TO BE PAINTED P-1 U.O.N ON PLANS.
16. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
088300.A1	SHEET MIRROR AND HARDWARE

SHEET KEYNOTES

NUMBER	KEYNOTE TEXT
073	FLOOR FINISH TO CONTINUE UNDER MILLWORK

INTERIORS TOILET ACCESSORIES

TYPE MARK	MFR.	DESCRIPTION
TA-1	BOBRICK	B-3803 TrimLine Series Recessed Combination Towel and Waste Unit
TA-2	BOBRICK	B-357 Partition Mounted Combo Unit Double Sided Womens
TA-3	BOBRICK	B-2888 Surface Mounted Multi-roll Toilet Tissue Dispenser
TA-4	BOBRICK	B-270 Contura Series Surface Mounted Sanitary Napkin Disposal
TA-5	BOBRICK	B-221 Surface Mounted Seat Cover Dispenser
TA-6	BOBRICK	1 1/4" Diameter Stainless Steel Grab Bars with Snap Flange
TA-7	BOBRICK	1 1/4" Diameter Stainless Steel Grab Bars with Snap Flange
TA-8	SLOAN	ESD-500 Sensor Activated Soap Dispenser
TA-9	TO BID	VANITY MIRROR, 14'-0"W x 3'-9"H
TA-9.1	Restoration Hardware	23220115 CHR - Pivot Mirror
2.6 TA-9.2	TO BID	VANITY MIRROR, 4'-6"W X 3'-9"H
TA-9.3	TO BID	VANITY MIRROR, 6'-4"W x 4'-8"H
TA-10	BOBRICK	B-239 Utility Shelf with Rag Hooks and Broom Holders
TA-11	BOBRICK	B-672 Robe Hook
2.6 TA-13	ENMOTION	Recessed Automated Paper Towel Dispenser, MFG Part # 59466
TA-15	BOBRICK	Circular Waste Chute for Mounting in Countertops
2.6 TA-16	RUBBERMAID	SLIM-JIM H-2894 Trash Can
TA-17	BOBRICK	B-3574 Classic Series Recessed Toilet Seat Cover Toilet Tissue Dispenser and Sanitary Napkin Disposal Unit
TA-18	BOBRICK	B-3474 Classic Series Recessed Single Compartment Combination Toilet Seat Cover and Tissue Dispenser

GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

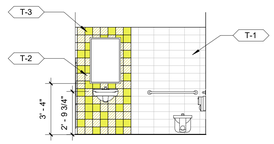
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
ENLARGED DRAWINGS - RESTROOMS

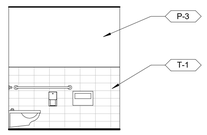
Sheet No.
2I-403

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002



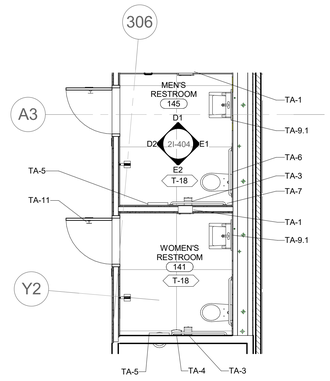
E1 LVL 01 - MEN'S TOILET - EAST

D3 / 2I-404 | 1/4" = 1'-0"



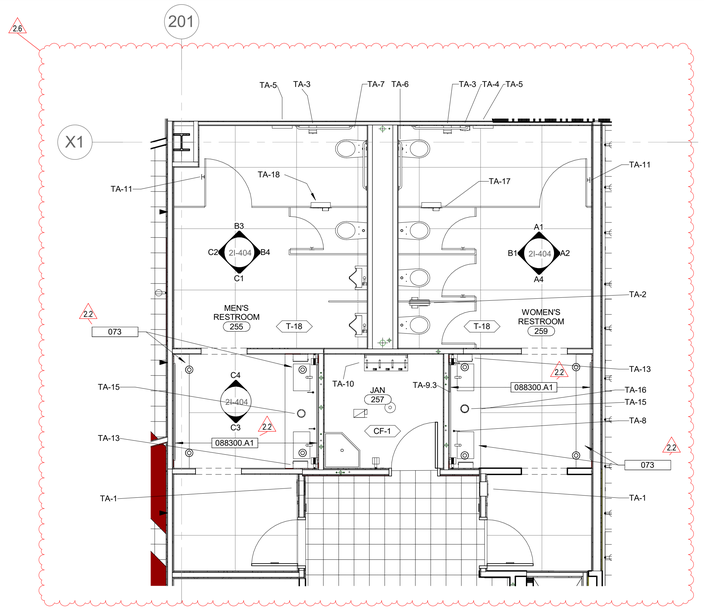
E2 LVL 01 - MEN'S TOILET - SOUTH

D3 / 2I-404 | 1/4" = 1'-0"



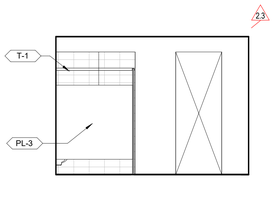
D3 FLOOR PLAN - ENLARGED WAREHOUSE RESTROOMS

B1 / 2I-112 | 1/4" = 1'-0"



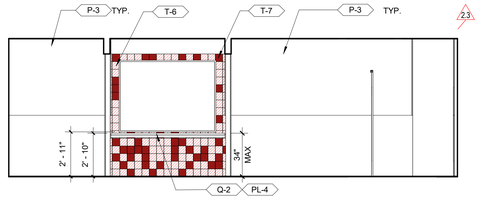
D4 FINISH PLAN - ENLARGED LAB RESTROOM PLANS

A1 / 2A-202 | 1/4" = 1'-0"



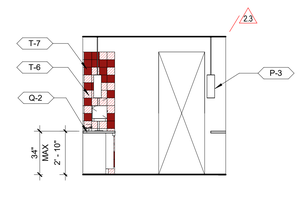
C1 LVL 02 - MEN'S RESTROOM 255 - SOUTH

D4 / 2I-404 | 1/4" = 1'-0"



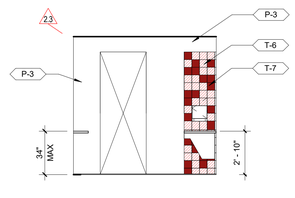
C2 LVL 02 - MEN'S RESTROOM 255 - WEST

D4 / 2I-404 | 1/4" = 1'-0"



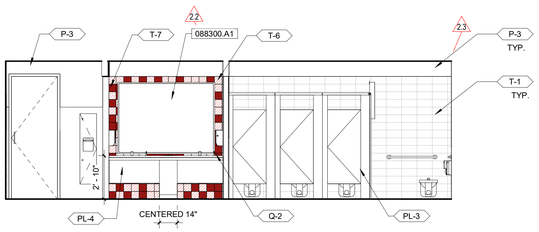
C3 LVL 02 - MEN'S RESTROOM 255 - SOUTH B

D4 / 2I-404 | 1/4" = 1'-0"



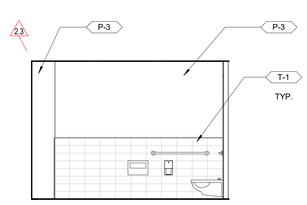
C4 LVL 02 - MEN'S RESTROOM 255 - NORTH B

D4 / 2I-404 | 1/4" = 1'-0"



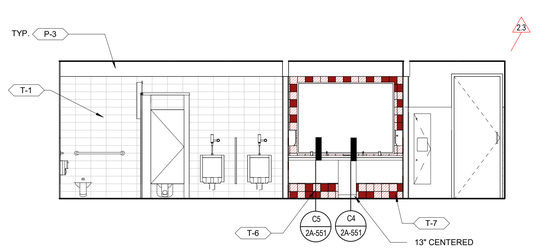
B1 LVL 02 - WOMEN'S RESTROOM 259 - WEST

D4 / 2I-404 | 1/4" = 1'-0"



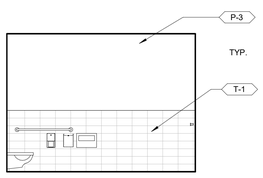
B3 LVL 02 - MEN'S RESTROOM 255 - NORTH

D4 / 2I-404 | 1/4" = 1'-0"



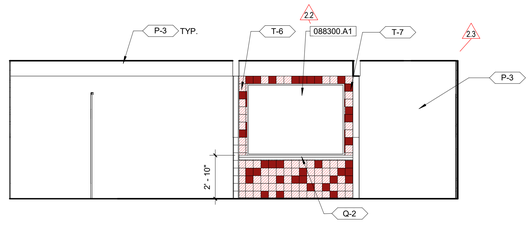
B4 LVL 02 - MEN'S RESTROOM 255 - EAST

D4 / 2I-404 | 1/4" = 1'-0"



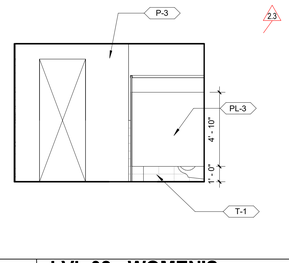
A1 LVL 02 - WOMEN'S RESTROOM 259- NORTH

D4 / 2I-404 | 1/4" = 1'-0"



A2 LVL 02 - WOMEN'S RESTROOM 259 - EAST

D4 / 2I-404 | 1/4" = 1'-0"



A4 LVL 02 - WOMEN'S RESTROOM 259- SOUTH

D4 / 2I-404 | 1/4" = 1'-0"

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SHEET KEYNOTES

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073	FLOOR FINISH TO CONTINUE UNDER MILLWORK

REFERENCE KEYNOTES

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TA-4	BOBRICK	B-270 Contura Series Surface Mounted Sanitary Napkin Disposal
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TA-6	BOBRICK	1 1/4" Diameter Stainless Steel Grab Bars with Snap Flange
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TA-9.1	Restoration Hardware	23220115 CHR - Pivot Mirror
TA-9.2	TO BID	VANITY MIRROR, 4'-6"W X 3'-9"H
TA-9.3	TO BID	VANITY MIRROR, 6'-4"W x 4'-8"H
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GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title

ENLARGED DRAWINGS- RESTROOMS

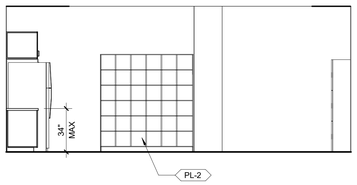
Sheet No.

2I-404

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

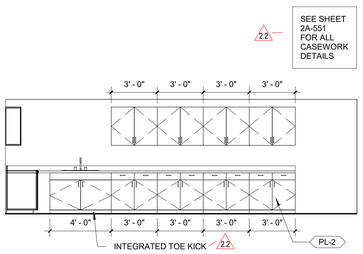
1/23/2018 9:37:05 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

11/20/2017 11:00:57 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



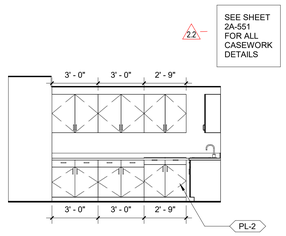
E1 LEVEL 2 - BREAKROOM ELEVATION B

C4 / 2I-405 | 1/4" = 1'-0"



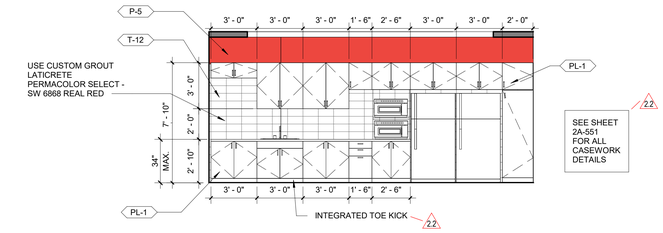
D1 LEVEL 1 - FACILITIES SHOP MILLWORK - A

1/4" = 1'-0"



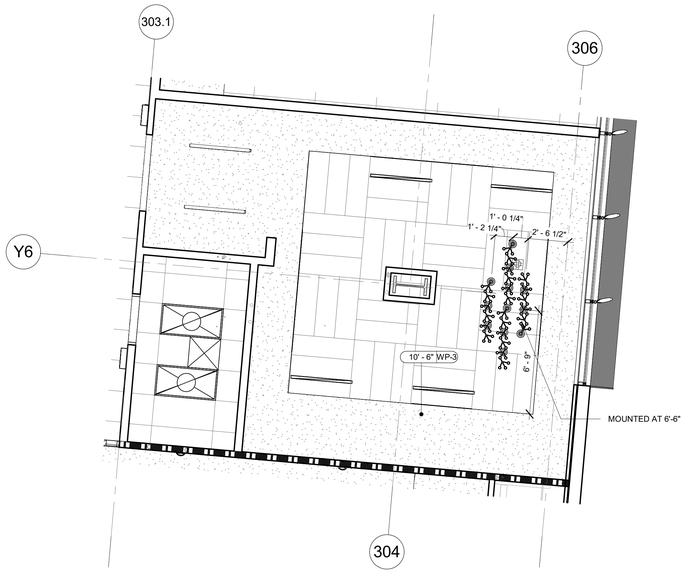
C1 LEVEL 1 - FACILITIES SHOP MILLWORK - B

1/4" = 1'-0"



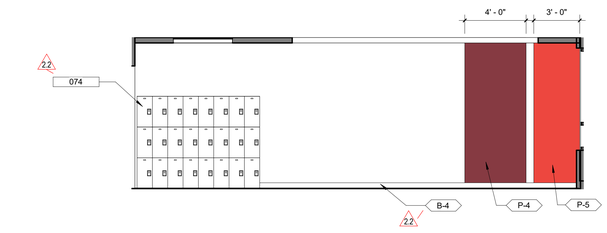
E2 LEVEL 2 - BREAKROOM ELEVATION

C4 / 2I-405 | 1/4" = 1'-0"



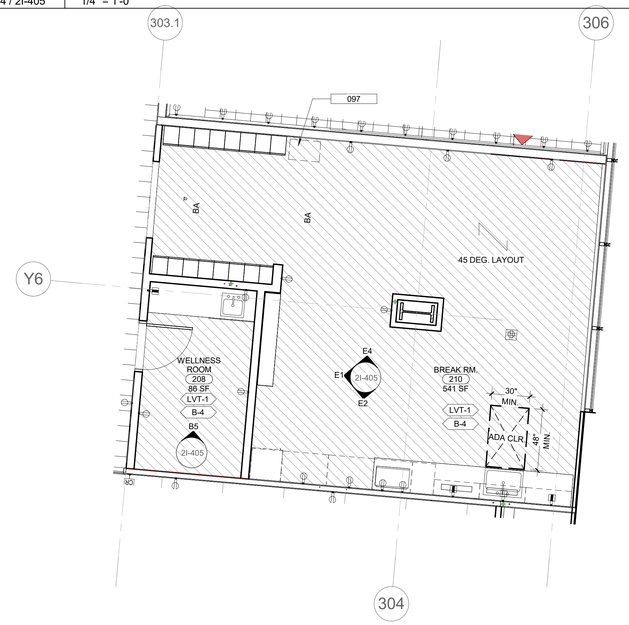
C2 LEVEL 02-Z2 - RCP PARTIAL PARENT - ENLARGED

1/4" = 1'-0"



E4 LEVEL 2 - BREAKROOM ELEVATION C

C4 / 2I-405 | 1/4" = 1'-0"



C4 FINISH PLAN - LEVEL 02-Z2 - BREAKROOM

A1 / 2I-123 | 1/4" = 1'-0"

GENERAL NOTES - INTERIOR

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. ALL WRITTEN DIMENSIONS TAKE PRECEDENCE. VERIFY IN FEILD PRIOR TO COMMENCEMENT AND REPORT ANY DESCREPENCIES TO THE ARCHITECT OR DESIGNER.
3. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES.
4. THE GENERAL CONTRACTOR TO PROVIDE ALL NECESSARY BLOCKING AND BACKING FOR WALL MOUNTED ACCESSORIES, EQUIPMENT, AND FIXTURES PER THE MANUFACTURER'S RECOMMENDATIONS.
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10. ALL DIMENSIONS IN ELEVATIONS ARE FROM THE FINISHED FLOOR.
11. SEE SHEET A1 / 2A-578 FOR MOUNTING HEIGHTS AND ALIGNMENTS OF LIGHT SWITCHES, THERMOSTATS, ETC.
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13. SEE SHEET 2I-601 FOR FINISH LEGEND.
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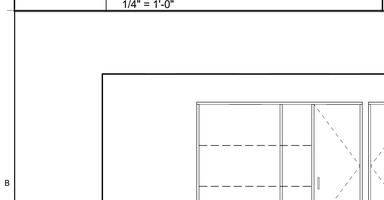
15. ALL WALL TO BE PAINTED P-1 U.O.N ON PLANS.
16. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

SHEET KEYNOTES

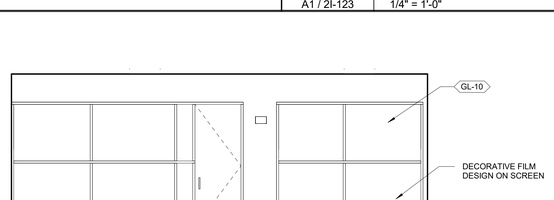
NUMBER	KEYNOTE TEXT
074	LOCKERS, OFOI, GC TO PROVIDE BACKING SUPPORT AND CURB
097	THIS AREA IS FOR RECYCLING OF PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS, AND METAL

2.3



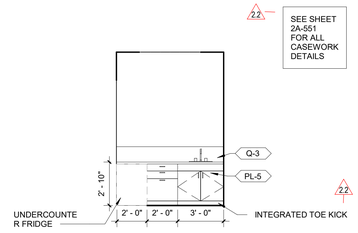
B1 TYPICAL OFFICE ROOM STOREFRONT ELEVATION

1/4" = 1'-0"



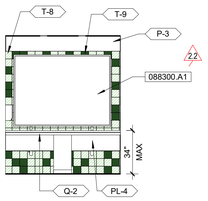
B3 TYPICAL CORRIDOR STOREFRONT ELEVATION

1/4" = 1'-0"



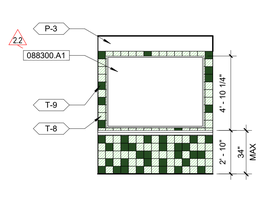
B5 TYPICAL WELLNESS ROOM CASEWORK

C4 / 2I-405 | 1/4" = 1'-0"



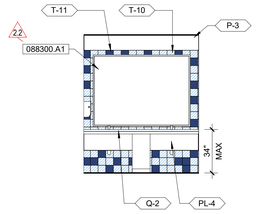
A1 LVL 03 - MEN'S RESTROOM 353 - EAST

1/4" = 1'-0"



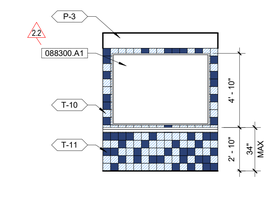
A2 LVL 3 - MEN'S RESTROOM WEST

1/4" = 1'-0"



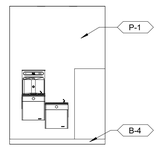
A3 LVL 04 - MEN'S RESTROOM - 453 - EAST

1/4" = 1'-0"



A4 LVL - 04 MEN'S RESTROOM

1/4" = 1'-0"



A5 TYPICAL WATER FOUNTAIN

1/4" = 1'-0"

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

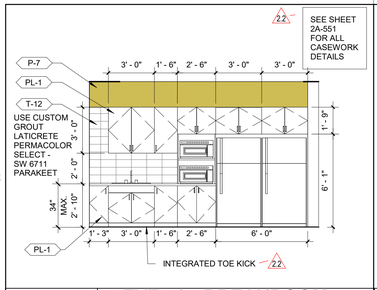
CITY SUBMITTAL SET
08.08.17

Sheet Title
ENLARGED DRAWINGS

Sheet No.
2I-405

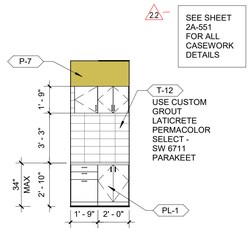
DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

11/20/2017 11:01:17 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



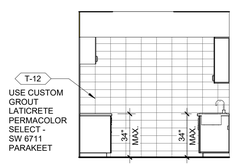
E1 LEVEL 3 - BREAKROOM ELEVATION

A3 / 2I-406 | 1/4" = 1'-0"



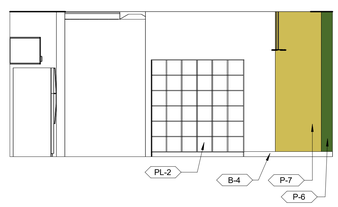
E2 LEVEL 3 - BREAKROOM ELEVATION B

A3 / 2I-406 | 1/4" = 1'-0"



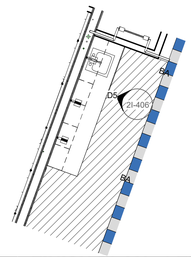
E3 LEVEL 3 - BREAKROOM ELEVATION C

A3 / 2I-406 | 1/4" = 1'-0"



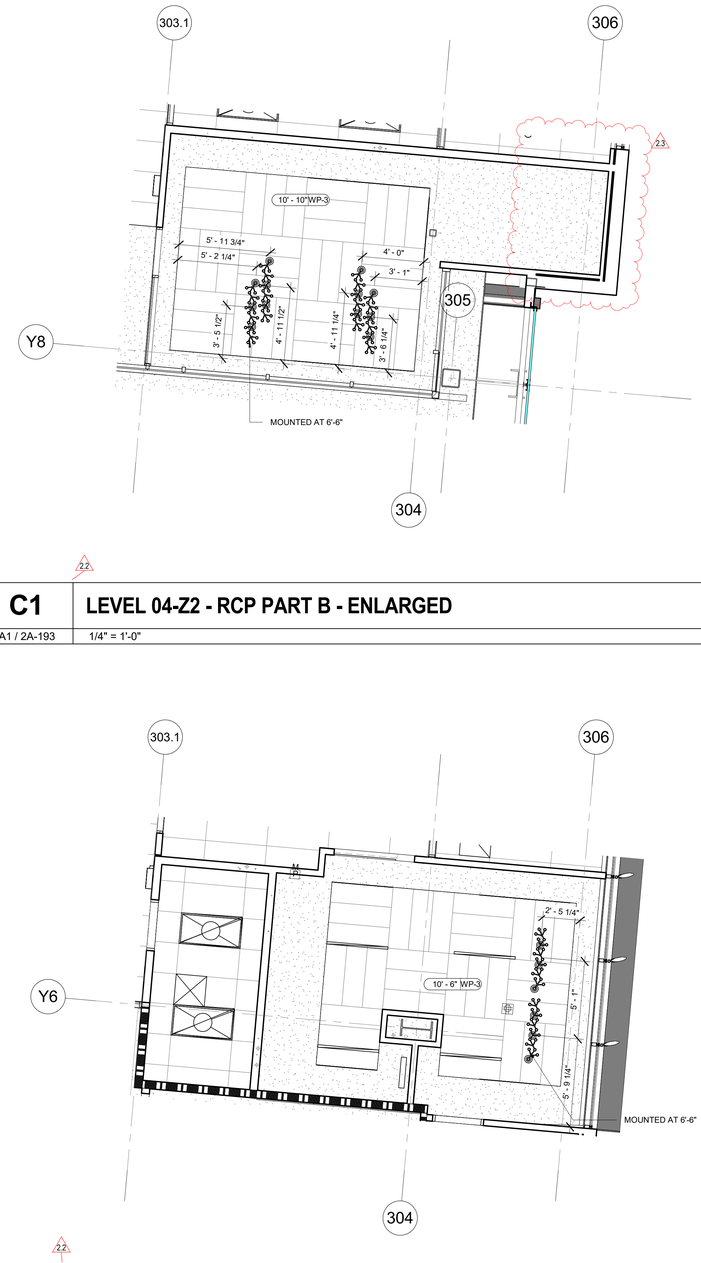
E4 LEVEL 3 - BREAKROOM ELEVATION D

A3 / 2I-406 | 1/4" = 1'-0"



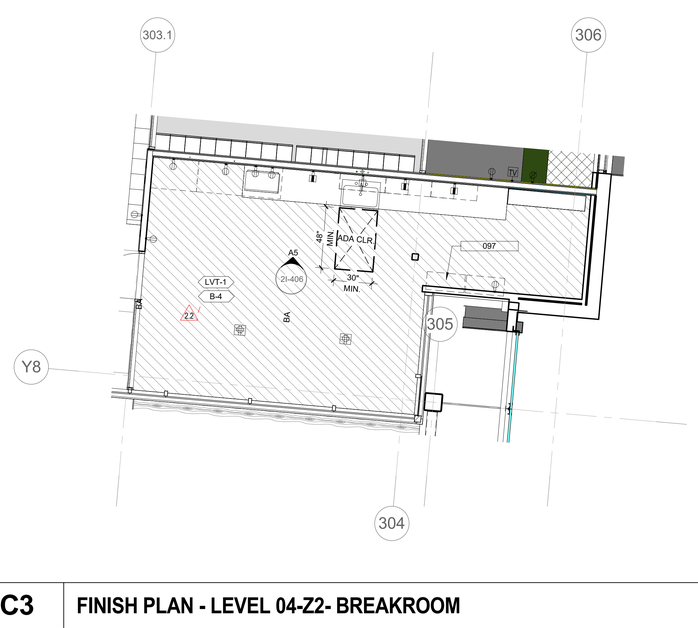
E5 FINISH PLAN - LEVEL 04-Z2-OFFICE BREAKROOM

A1 / 2I-142 | 1/4" = 1'-0"



C1 LEVEL 04-Z2 - RCP PART B - ENLARGED

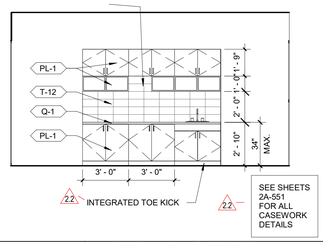
A1 / 2A-193 | 1/4" = 1'-0"



C3 FINISH PLAN - LEVEL 04-Z2- BREAKROOM

A1 / 2I-143 | 1/4" = 1'-0"

USE CUSTOM GROUT LATICRETE PERMACOLOR SELECT - BM2059-50 POOL PARTY



D5 LEVEL 4 - OFFICE ELEVATION

E5 / 2I-406 | 1/4" = 1'-0"

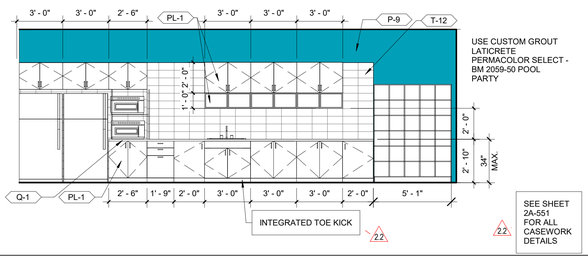
A1 LEVEL 03-Z2 - RCP PART B - ENLARGED

A1 / 2A-183 | 1/4" = 1'-0"



A3 FINISH PLAN - LEVEL 03-Z2 - BREAKROOM

A1 / 2I-133 | 1/4" = 1'-0"



A5 LEVEL 4 - BREAKROOM ELEVATION

C3 / 2I-406 | 1/4" = 1'-0"

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GENE THEORY -
CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

CITY SUBMITTAL SET
08.08.17

Sheet Title
ENLARGED DRAWINGS

Sheet No.
2I-406

10/2/2017 3:51:39 PM
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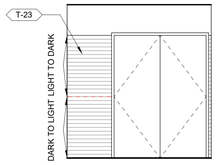
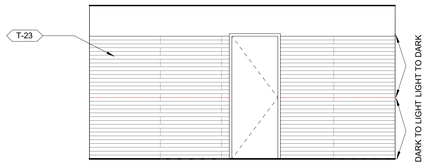


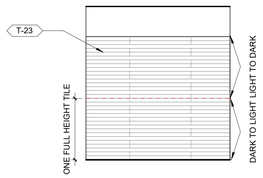
D1 LVL 1.4 - DISH DROP OFF D

D3 / 2I-407 | 1/4" = 1'-0"



C1 LVL 1.4 - DISH DROP OFF C

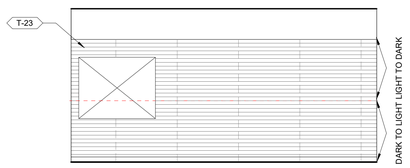
D3 / 2I-407 | 1/4" = 1'-0"



22

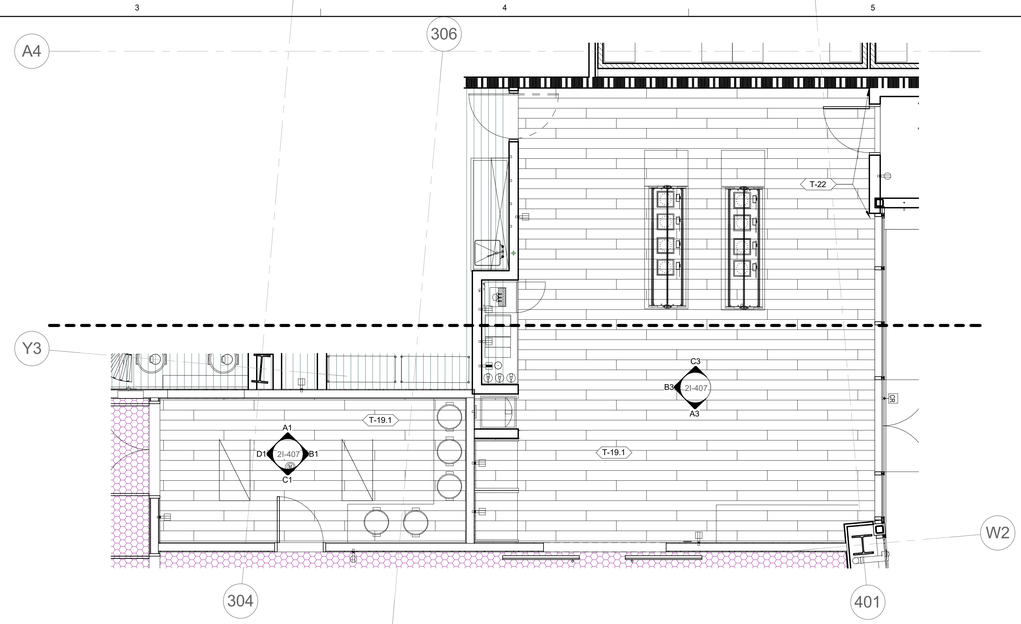
B1 LVL 1.4 - DISH DROP OFF B

D3 / 2I-407 | 1/4" = 1'-0"



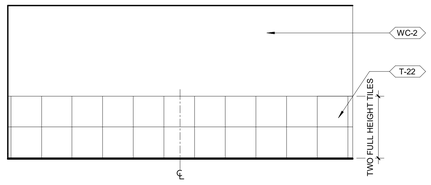
A1 LVL 1.4 - DISH DROP OFF

D3 / 2I-407 | 1/4" = 1'-0"



D3 FINISH PLAN - LEVEL 01-Z2 - SERVERY

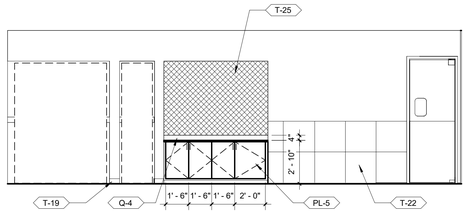
B1 / 2I-112 | 1/4" = 1'-0"



22

C3 LVL 1.4 - Z2 - SERVERY A

D3 / 2I-407 | 1/4" = 1'-0"



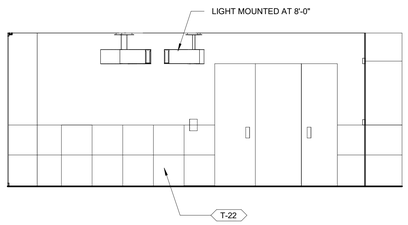
22

B3 LVL 1.4 - Z2 - SERVERY B

D3 / 2I-407 | 1/4" = 1'-0"

22

SEE SHEET 2A-551 FOR ALL CASEWORK DETAILS



A3 LVL 1.4 - Z2 - SERVERY C

D3 / 2I-407 | 1/4" = 1'-0"

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GENE THEORY -
CP-2
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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
ENLARGED DRAWINGS

Sheet No.
2I-407

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

INTERIOR FINISH KEY SCHEDULE

CODE	MATERIAL NAME	MANUFACTURER	MATERIAL COLLECTION	MATERIAL PRODUCT NUMBER	MATERIAL COLOR	MATERIAL SIZE	MATERIAL LOCATION	INSTALLATION NOTES	MATERIAL COMMENTS	CONTACT
05700 - DECORATIVE METAL										
MT-1	STAINLESS STEEL	FORMS AND SURFACES	ECO-ETCH	SEQUENCE	SATIN	3/16"	LEVEL 1 ELEVATOR DOOR AND WALL			
2.2 MT-2	ALUMINUM	MOZ DESIGNS	CUSTOM CNC CUT OUT	CUSTOM	WHITE SAND POWDER COAT	4' X 8'	MPR ACCENT CEILING	CUSTOM PATERN PER PLAN	PROVIDE FROSTED PANEL ABOVE TO DIFUSE LIGHT	ERICA LUCAS 510-693-4123
09771 - FABRIC WRAPPED PANELS										
AF-1	FABRIC WRAPPED PANELS	CARNEGIE	XOREL	6603 21	DASH	4' X 8' X 1"	MULTI PURPOSE ROOM WALLS PER ELEVATION	UNBACKED ON 1"T FABRITRACK W/BEVELED EDGES	USE 6-7#FIBERGLASS CORE W/ NRC RATING 0.80	
033000 CAST IN PLACE CONCRETE										
CF-1	SEALED CONCRETE						REFER TO FINISH PLANS			
064023 - INT. ARCHITECTURAL WOODWORK										
PL-1	PLASTIC LAMINATE	WILSONART	PREMIUM	7952K-18	ASIAN SAND		TYPICAL BREAKROOM MILLWORK			
PL-2	PLASTIC LAMINATE	WILSONART	STANDARD	7995-38	STEELING ASH		TYPICAL BREAKROOM CUBBIES			
PL-3	PLASTIC LAMINATE	WILSONART	PREMIUM	8211K-28	PHANTOM PEARL		TYPICAL RESTROOM PARTITIONS		SOLID PHENOLIC	
PL-4	PLASTIC LAMINATE	WILSONART	PREMIUM	8210K-28	PORTICO TEAK		TYPICAL RESTROOM VANITY			
PL-5	PLASTIC LAMINATE	FORMICA	PREMIUM	8208K-16	FAWN CYPRESS	CASUAL RUSTIC W/ AEON	WELLNESS ROOM			
2.3 WD-1	WOOD VENEER				DARK OAK		STAIRS, RECEPTION DESK, LOBBY, MPR AND AROUND CONF ROOM 302	USE KOROSEAL, ARBOR, RECON HAVANA AA5611HAV ON WALLS	ON STAIRS, RECEPTION DESK, USE SOLID WOOD AND MATCH DESIGNER SAMPLE. REFER TO DRAWINGS	KOROSEAL: SHARLENE MURTAGH 858-449-4546
081416 - SOLID WOOD DOOR FINISH										
WD-3	WOOD	EGGERS INDUSTRIES	VENEER	110116WA	PLAIN SLICED WALNUT			01 - CLEAR		
093013 - INTERIOR CERAMIC TILING										
T-1	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	16900	WHITE	6" X 12" X 3/16"	TYPICAL RESTROOM WALLS	USE MATCHING CORNER PIECES AND FINISHED EDGE TILES	1/8" GROUT - LATICRETE 90 LIGHT PEWTER	LIZ GOMEZ 714 292 6155
T-2	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	16920	LIGHT YELOW	6" X 6" X 1/8"	WAREHOUSE RESTROOM WALL ACCENT		1/8" GROUT - LATICRETE 90 LIGHT PEWTER	LIZ GOMEZ 714 292 6155
T-3	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	17950	DARK YELOW	6" X 6" X 1/8"	WAREHOUSE RESTROOM WALL ACCENT		1/8" GROUT - LATICRETE 90 LIGHT PEWTER	LIZ GOMEZ 714 292 6155
T-4	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	17930	LIGHT PURPLE	6" X 6" X 1/8"	LEVEL 1 WOMEN/MEN - RESTROOM WALL ACCENT		1/8" GROUT - LATICRETE 90 LIGHT PEWTER	LIZ GOMEZ 714 292 6155
T-5	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	17920	DARK PURPLE	6" X 6" X 1/8"	LEVEL 1 WOMEN/MEN - RESTROOM WALL ACCENT		1/8" GROUT - LATICRETE 90 LIGHT PEWTER	LIZ GOMEZ 714 292 6155
T-6	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	17970	LIGHT RED	6" X 6" X 1/8"	LEVEL 2 WOMEN/ MEN - RESTROOM WALL ACCENT		1/8" GROUT - LATICRETE 90 LIGHT PEWTER	LIZ GOMEZ 714 292 6155
T-7	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	19970	DARK RED	6" X 6" X 1/8"	LEVEL 2 WOMEN/ MEN - RESTROOM WALL ACCENT		1/8" GROUT - LATICRETE 90 LIGHT PEWTER	LIZ GOMEZ 714 292 6155
T-8	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	17900	LIGHT GREEN	6" X 6" X 1/8"	LEVEL 3 WOMEN/ MEN - RESTROOM WALL ACCENT		1/8" GROUT - LATICRETE 90 LIGHT PEWTER	LIZ GOMEZ 714 292 6155
T-9	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	16930	DARK GREEN	6" X 6" X 1/8"	LEVEL 3 WOMEN/ MEN - RESTROOM WALL ACCENT		1/8" GROUT - LATICRETE 90 LIGHT PEWTER	LIZ GOMEZ 714 292 6155
T-10	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	16990	LIGHT BLUE	6" X 6" X 1/8"	LEVEL 4 WOMEN/ MEN - RESTROOM WALL ACCENT		1/8" GROUT - LATICRETE 90 LIGHT PEWTER	LIZ GOMEZ 714 292 6155
T-11	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	16940	DARK BLUE	6" X 6" X 1/8"	LEVEL 4 WOMEN/ MEN - RESTROOM WALL ACCENT		1/8" GROUT - LATICRETE 90 LIGHT PEWTER	LIZ GOMEZ 714 292 6155
T-12	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	15010	MATTE WHITE	6" X 12" X 3/16"	TYPICAL BREAKROOM BACKSPLASH	POWDER MATTE FINISH	CUSTOM COLOR 1/8" GROUT PER ELEVATION	LIZ GOMEZ 714 292 6155
T-18	CERAMIC TILE	MOSA TILE	GLOBAL COLLECTION	75920V	SPECKLED LIGHT GREY	12" X 12" X 3/16"	RESTROOM FLOOR	USE SCHLUTER COVE DILEX-AHK-ACGB	1/8" GROUT/LATICRETE 24 NATURAL GREY	LIZ GOMEZ 714 292 6155
T-19.1	PORCELAIN TILE	SPEC CERAMIC-ERGON	WOODTALK	289E1R	BEIGE DIGUE	6" X 36" X 3/8"	SERVERY AND DISH DROP AREA FLOOR		1/8" GROUT/LATICRETE 24 NATURAL GREY, ANTIMICROBIAL GROUT	BEN FRIESEN
T-20	CONCRETE TILE	CONCRETE COLLABORATIVE	POLISHED CONCRETE TILE	LAGUNA	ALABASTER	48" X 48" X 3/4"	LOBBY, STEPS, PUBLIC AREAS	USE MATCHING 4" X 4' BASE	1/8" GROUT/LATICRETE 24 NATURAL GREY	SALLY SMITHWICK 917 439 8059
T-21	PORCELAIN TILE	IRIS / VERSATILE	ECOCRETE	IRG1836130	SAGE	18" X 36" X 3/8"	MULTI PURPOSE ROOM		1/8" GROUT/LATICRETE 24 NATURAL GREY	ASHA PARKER 858 586 1446
2.2 T-22	CERAMIC TILE	SPEC CERAMIC	ORNAMENTA MISERIA E NOBILITA		GREGGIO FELICE	24" X 24" X 10 MM	SEVERY WALLS	USE SCHLUTER JOLLY TSBG	1/16" GROUT/MAPEI 135 SAND	BEN FRIESEN
T-23	CERAMIC TILE	SPEC CERMAIC - MIRAGE	TRANSITION	FADE TR 01-03		48" X 48" X 3/8"	DISH DROP OFF AREA WALLS		1/16" GROUT/LATICRETE 90 LIGHT PEWTER	BEN FRIESEN
T-25	CERAMIC TILE	DALTILE	STUDIO D	ETERNAL WALL TILE	EM 10 WHITE SEGMENTS	6" X 6" X 1/8"	SERVERY ACCENT WALL TILE		1/8" GROUT - LATICRETE 44 BRIGHT WHITE	KYLEE MIDURA 858 344 0019
T-26	PORCELAIN TILE	EMSER TILE	EXPANSE	V54EXPAISN59 118H	ISLA NATURA HONED	59" X 118" X 6MM	RECEPTION DESK WALLS	USE SCHLUTER JOLLY TSI	1/16" GROUT/LATICRETE 17 MARBLE BEIGE	DANIELLE VOMBAUR 858 740 7681
095113 - ACOUSTICAL PANEL CEILINGS										
AP-1	ACOUSTIC PANEL CEILING	ARMSTRONG	ULTIMA HIGH NRC	1945	WHITE	2' X 4'	OPEN OFFICE AREAS		GRID: SUPRAFINE 9/16"	DAI-NEE TAN 949 275 8169
AP-2	ACOUSTIC PANEL CEILING	ARMSTRONG	CALLA HIGH TOTAL ACOUSTICS	2825	WHITE	2' X 2'	CONFERENCE ROOMS		GRID: SUPRAFINE 9/16"	DAI-NEE TAN 949 275 8169
AP-3	ACOUSTIC PANEL CEILING	ARMSTRONG	ULTIMA	1913	WHITE	2' X 4'	LABS	W/ 1'X4' SERVICE PNL.	GRID: PRELUDE 15/16"	DAI-NEE TAN 949 275 8169
AP-4	ACOUSTIC PANEL CEILING	ARMSTRONG	ULTIMA HEALTH ZONE	1938	WHITE	2' X 4'	BUFFER ROOMS (W/ 1'X4' SERVICE PNL.) AND KITCHEN		GRID: 15/16" CLEAN ROOM	DAI-NEE TAN 949 275 8169
AP-5	ACOUSTIC PANEL CEILING	ARMSTRONG	FINE FISSURED	1729	WHITE	2' X 4'	BACK OF HOUSE (MECH / ELEC, STORAGE)		GRID: PRELUDE 15/16"	DAI-NEE TAN 949 275 8169
AP-6	ACOUSTIC PANEL CEILING	ARMSTRONG	ULTIMA	1913	WHITE	2' X 4'	SOME LABS AND LAB CORRIDORS	USE SINGLE SPAN PRELUDE 730098HRC ON CORRIDORS	GRID: PRELUDE 15/16"	DAI-NEE TAN 949 275 8169
WP-1	ACOUSTIC PANEL CEILING	HUNTER DOUGLAS	TECHSTYLE WOOD	OAK WOOD	MEDIUM BROWN	4' X 6' + CUSTOM	FIRST FLOOR MULTI-PURPOSE RM.	SWING DOWN	USE MID SPAN SUPPORT AT 6' LENGHTS.	GORDON GRANT 858 560 1070
WP-3	WOOD PANEL CEILING	ARMSTRONG	WOODWORKS GRILLE TEGULAR	663112 GWN	WALNUT	24" X 48" X 2"	BREAKROOMS LEVEL 2, 3 and 4 - 1/2" X 1 1/2", 12 VERTICAL	USE #5823, BLACK ABOVE	15/16" HEAVY DUTY PRELUDE XL IN BLACK	DAI-NEE TAN 949 275 8169
2.3 WP-4	WOOD PANEL CEILING	ARMSTRONG	WOODWORKS GRILLE	7265 BO GWN	WALNUT	5/8" X 2-1/4" 6	SERVERY, WITH WOODWORKS SOLID WOOD TRIM 6"H	USE #5823, BLACK ABOVE	15/16" HEAVY DUTY PRELUDE XL IN BLACK	DAI-NEE TAN 949 275 8169
WP-5	WOOD PANEL CEILING	ARMSTRONG	WOODWORKS LINEAR	6440W1DC	WALNUT	96" x 3 3/4" x 3/4"	CONFERENCE LEVEL 3, W/ MATCHING WOODWORKS TRIM 6"H	USE #5823, BLACK ABOVE	15/16" HEAVY DUTY PRELUDE XL IN BLACK	DAI-NEE TAN 949 275 8169
095423 - LINEAR METAL CEILINGS										
LM-1	ACOUSTIC PANEL CEILING	HUNTER DOUGLAS	WOODWRIGHT EXTERIOR BOX	DEEP BOX 6	WALNUT	6" X 1"X CUSTOM	EXTERIOR SOFFIT	SEE DRAWING		GORDON GRANT 858 560 1070
096513 - RESILIENT BASE										
2.1 B-1	BASE	JOHNSONITE		32	PEBBLE WG	4"	GENERAL OFFICE		USE W/ INTERFACE DUO TRIO	CARMELA LURIE 619 985 9319
B-2	BASE	JOHNSONITE		29	MOON ROCK WG	4"	FLEX ROOM AND COMN. ROOM AND WITH CF-1 FLOOR		USE W/ INTERFACE URBAN RETREAT	CARMELA LURIE 619 985 9319
B-3	BASE	JOHNSONITE		55	SILVER GREY	4"	TYPICAL LAB FLOOR AND IT ROOM		USE W/ LAB VCT	CARMELA LURIE 619 985 9319
B-4	BASE	JOHNSONITE		280	SHORELINE	4"	TYPICAL LAB CORRIDOR AND WELLNESS AND BREAKROOM		USE W/ CORRIDOR VCT	CARMELA LURIE 619 985 9319
2.2 B-6	WOOD BASE		PAINT GRADE WOOD BASE		WALL COLOR	4"	MPR			

INTERIOR FINISH KEY SCHEDULE

CODE	MATERIAL NAME	MANUFACTURER	MATERIAL COLLECTION	MATERIAL PRODUCT NUMBER	MATERIAL COLOR	MATERIAL SIZE	MATERIAL LOCATION	INSTALLATION NOTES	MATERIAL COMMENTS	CONTACT
096516 - RESILIENT SHEET FLOORING										
RS-1	SHEET FLOORING	JOHNSONITE	IQ NATURAL	273	NIMBUS CG	6'6" ROLL	GMP LAB	SELF COVE		CARMELA LURIE 619 985 9319
096519 - RESILIENT TILE FLOORING										
LVT-1	LUXURY VINYL TILE	USF CONTRACT	STRATUM 700 WIDE PLANK	50DLV704	MONTEREY OAK	7 1/8" X 48" X 8mm	WELLNESS ROOMS AND BREAKROOM LEVEL 4	GLUE DOWN	USE ADHESIVE 30GT400	KIM MCVAY 562 900 2583
LVT-2	LUXURY VINYL TILE	INTERFACE	LEVEL SET COLLECTION	A00406	ANTIQUE LIGHT OAK	25CM X 1M	BREAKROOMS LEVEL 2 AND 3	TACK TILES	TEXTURED WOOD GRAINS	MATT PROBST 619 857 4179
VCT-1	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON-IMP TEXT	51861	SOFT WARM GRAY	12" X 12"	LAB FLOORS	GLUE DOWN	3 COATS OF FLOOR WAX	PAULA HABERKERN 619 756 3698
VCT-2	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON-RAVE	57515	HOT LIPS	12" X 12"	SECOND FLOOR - LIGHT RED ACCENT	GLUE DOWN	3 COATS OF FLOOR WAX	PAULA HABERKERN 619 756 3698
VCT-3	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON-IMP. TEXT.	51816	CHERRY RED	12" X 12"	SECOND FLOOR - DARK RED ACCENT	GLUE DOWN	3 COATS OF FLOOR WAX	PAULA HABERKERN 619 756 3698
VCT-4	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON-RAVE	57510	KICKIN KIWI	12" X 12"	THIRD FLOOR - LIGHT GREEN ACCENT	GLUE DOWN	3 COATS OF FLOOR WAX	PAULA HABERKERN 619 756 3698
VCT-5	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON-IMP. TEXT.	51824	SEA GREEN	12" X 12"	THIRD FLOOR - DARK GREEN ACCENT	GLUE DOWN	3 COATS OF FLOOR WAX	PAULA HABERKERN 619 756 3698
VCT-6	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON-RAVE	57512	BIKINI BLUE	12" X 12"	FOURTH FLOOR - LIGHT BLUE ACCENT	GLUE DOWN	3 COATS OF FLOOR WAX	PAULA HABERKERN 619 756 3698
VCT-7	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON-IMP. TEXT.	51821	CARIBBEAN BLUE	12" X 12"	FOURTH FLOOR - DARK BLUE ACCENT	GLUE DOWN	3 COATS OF FLOOR WAX	PAULA HABERKERN 619 756 3698
VCT-8	VINYL COMPOSITION TILE	ARMSTRONG	MIGRATIONS BBT	T3509	MUSHROOM BEIGE	12" X 12"	LAB CORRIDORS	GLUE DOWN	3 COATS OF FLOOR WAX	PAULA HABERKERN 619 756 3698
096566 - STATIC CONTROL RESILIENT FLOORING										
SCT-1	STATIC CONTROL	FORBO	CLOREX VINYL TILE	SD 150207	QUARTZ	24" X 24"	IT ROOMS	GLUE DOWN	USE B-3	NICOLE RIVERIA 619 213 7232
096723 - RESINOUS FLOORING										
RF-1	EPOXY	STONHARD	STONETECK	TRF	TBD		W/ INTEGRAL COVE BASE			GEREMY 619-8864265
RF-2	EPOXY	STONHARD	STONESHIELD	HR-1	DRIFTWOOD		BUFFER ROOM W/ INTEGRAL COVE BASE			GEREMY 619-8864265
RF-3	EPOXY	CROSSFIELD PRODUCTS CORP	DEX - O -TEX	TEKCRETE	SL-7		KITCHE W/ INTEGRAL COVE BASE			
096813 - CARPET TILE										
CP-1	CARPET TILE	INTERFACE	DUO TRIO	D-103870, T-103878	D-ASH, T-LINEN ASH	25CM X 1M	OPEN OFFICE	ASHLAR, TACK TILES	100% RECYCLED CONTENT TYPE 6 NYLON	MATT PROBST 619 857 4179
CP-2	CARPET TILE	INTERFACE	URBAN RETREAT	102996	STONE	50 CM X 50 CM	FLEX ROOM, TELE ROOM, COMM ROOM	TACK TILES	100% RECYCLED SOLUTION DYED NYLON	MATT PROBST 619 857 4179
CP-3	CARPET TILE	INTERFACE FLOOR	URBAN NATURE	URBAN NATURE	STONE GRASS	50 CM X 50 CM	FLEX ROOM, TELE ROOM, COMM ROOM	TACK TILES	100% RECYCLED SOLUTION DYED NYLON	MATT PROBST 619 857 4179
CP-4	CARPET TILE	INTERFACE	URBAN RETREAT	100641	GRASS	50 CM X 50 CM	FLEX ROOM, TELE ROOM, COMM ROOM	TACK TILES	100% RECYCLED SOLUTION DYED NYLON	MATT PROBST 619 857 4179
CP-5	CARPET TILE	SHAW CONTRACT	CONFIGURE	5T161	59991 - BRILLIANT	24.9"H X 28.8 DIA	MPR, PER PLAN	LOKDOTS	ECOSOLUTION Q W/ ECOWORKS BACKING	CATHY MILLER
CP-6	CARPET TILE	SHAW CONTRACT	CONFIGURE	5T160	59518 - BRILLIANT PROPORTION	24.9"H X 28.8 DIA	MPR, PER PLAN	LOKDOTS	ECOSOLUTION Q W/ ECOWORKS BACKING	CATHY MILLER
CP-7	CARPET TILE	SHAW CONTRACT	CONFIGURE	5T159	59518 - PROPORTION	24.9"H X 28.8 DIA	MPR, CORRIDOR, PER PLAN	LOKDOTS	ECOSOLUTION Q W/ ECOWORKS BACKING	CATHY MILLER
CP-8	CARPET TILE	SHAW CONTRACT	CONFIGURE	5T161	59615 - SOCIAL	24.9"H X 28.8 DIA	MPR, PER PLAN	LOKDOTS	ECOSOLUTION Q W/ ECOWORKS BACKING	CATHY MILLER
CP-9	CARPET TILE	SHAW CONTRACT	CONFIGURE	5T160	59596 - SOCIAL DIALOGUE	24.9"H X 28.8 DIA	MPR, PER PLAN	LOKDOTS	ECOSOLUTION Q W/ ECOWORKS BACKING	CATHY MILLER
CP-10	CARPET TILE	SHAW CONTRACT	CONFIGURE	5T159	59596 - DIALOGUE	24.9"H X 28.8 DIA	MPR, CORRIDOR, PER PLAN	LOKDOTS	ECOSOLUTION Q W/ ECOWORKS BACKING	CATHY MILLER
CP-11	CARPET TILE	SHAW CONTRACT	CONFIGURE	5T161	59325 - SUBLIME	24.9"H X 28.8 DIA	MPR, PER PLAN	LOKDOTS	ECOSOLUTION Q W/ ECOWORKS BACKING	CATHY MILLER
CP-12	CARPET TILE	SHAW CONTRACT	CONFIGURE	5T160	59104 - SUBLIME SHIFT	24.9"H X 28.8 DIA	MPR, PER PLAN	LOKDOTS	ECOSOLUTION Q W/ ECOWORKS BACKING	CATHY MILLER
CP-14	CARPET TILE	INTERFACE	HUMAN NATURE	HN 840	SHALE -104226	25CM X 1M	CONFERENCE ROOM LEVEL 3	ASHLAR, TACK TILES	100% RECYCLED CONTENT TYPE 6 NYLON	MATT PROBST 619 857 4179
CP-15	CARPET TILE	INTERFACE	HUMAN NATURE	HN 850	SHALE - 104210	25CM X 1M	CONFERENCE ROOM LEVEL 3 BORDER	ASHLAR, TACK TILES	100% RECYCLED CONTENT TYPE 6 NYLON	MATT PROBST 619 857 4179
CP-20	CARPET TILE	INTERFACE	ON LINE	#138700AK00	103801 POPPY	25CM X 1M	ACCENT CARPET LEVEL 2	TACK TILES	100% RECYCLED CONTENT TYPE 6 NYLON	MATT PROBST 619 857 4179
CP-21	CARPET TILE	INTERFACE	ON LINE	#138700AK00	103798 LIME	25CM X 1M	ACCENT CARPET LEVEL 3	TACK TILES	100% RECYCLED CONTENT TYPE 6 NYLON	MATT PROBST 619 857 4179
CP-22	CARPET TILE	INTERFACE	ON LINE	#138700AK00	103799 LAPIS	25CM X 1M	ACCENT CARPET LEVEL 4	TACK TILES	100% RECYCLED CONTENT TYPE 6 NYLON	MATT PROBST 619 857 4179
WMT-1	WALK OFF MAT	CS- ENTRANCE FLOOR	GRID LINE 2 W/ SLIP NOT	G6P(SN)(3/4")	TBD	2.6 PER PLAN	AT ATRIUM, RECESSED			
097200 - WALL COVERINGS										
WC-1	WALLCOVERING	TRIKES	LANARK - RIO	LSC.RO. 03	SILVER FIR	54" WIDE ROLL	ELEVATOR LOBBY L2, L3 AND L4		100% VYNIL CLASS A	
WC-2	WALLCOVERING	BLEND	CUSTOM	CUSTOM	CUSTOM	54" WIDE ROLL	REFER TO FINISH PLANS	CUSTOM IMAGE	100% VYNIL CLASS A	
099123 - INTERIOR PAINTING										
P-1	PAINT	SHERWIN WILLIAMS		SW 7042	SHOJI WHITE		TYPICAL WALL COLOR	SATIN FINISH		
P-2	PAINT	SHERWIN WILLIAMS		SW 7004	SNOWBOUND		TYPICAL CEILING COLOR	FLAT FINISH		
P-3	PAINT	SHERWIN WILLIAMS		SW 7015	REPOSE GRAY		TYPICAL RESTROOM WALLS	SATIN FINISH		
P-4	PAINT	SHERWIN WILLIAMS		SW 6314	LUXURIOUS RED		DARK RED LEVEL 2 ACCENT PAINT	SATIN FINISH		
P-5	PAINT	BENJAMIN MOORE		2003-20	STRAWBERRY RED		LIGHT RED LEVEL 2 ACCENT PAINT	SATIN FINISH		
P-6	PAINT	BENJAMIN MOORE		2041-20	FIDDLEHEAD GREEN		DARK GREEN LEVEL 3 ACCENT PAINT	SATIN FINISH		
P-7	PAINT	SHERWIN WILLIAMS		SW 9030	LIMON FRESCO		LIGHT GREEN LEVEL 3 ACCENT PAINT	SATIN FINISH		
P-8	PAINT	DUNN EDWARDS		DE5839	INK BLOTCH		DARK BLUE LEVEL 4 ACCENT PAINT	SATIN FINISH		
P-9	PAINT	SHERWIN WILLIAMS		SW 6788	CAPRI		LIGHT BLUE LEVEL 4 ACCENT PAINT	SATIN FINISH		
P-10	PAINT	SHERWIN WILLIAMS		SW 6983	FULLY PURPLE		DARK PURPLE LEVEL 1 ACCENT PAINT	SATIN FINISH		
P-11	PAINT	SHERWIN WILLIAMS		SW 6831	CLEMATIS		LIGHT PURPLE LEVEL 1 ACCENT PAINT	SATIN FINISH		
P-12	PAINT	SHERWIN WILLIAMS		SW 6914	EYE CATCHING		YELLOW LEVEL 1 ACCENT PAINT	SATIN FINISH		
P-13	PAINT	SHERWIN WILLIAMS		SW 7073	NETWORK GRAY		DARK GREY ACCENT PAINT	SATIN FINISH		
P-DE	PAINT	SHERWIN WILLIAMS	DRY ERASE	DRY ERASE			REFER TO FINISH PLANS			
122413 - ROLLER WINDOW SHADES										
RWS-1	ROLLER WINDOW SHADE	LUTRON	SHEER LITE	SHL-212-5	CHARCOAL GREY	5'-6" W	5% NORTH WINDOWS, PER PLAN			DENISE JENKINS 858 254 9047
RWS-2	ROLLER WINDOW SHADE	LUTRON	SHEER LITE	SHL-212-3	CHARCOAL GREY	5'-6" W	3% SOUTH, WEST, AND EAST WINDOWS, PER PLAN			DENISE JENKINS 858 254 9047
RWS-3	ROLLER WINDOW SHADE	LUTRON	BLACKOUT		CHARCOAL GREY	5'-6" W	ROOM 263			DENISE JENKINS 858 254 9047
123662 - QUARTZ AGGLOMERATE COUNTERTOPS										
Q-1	QUARTZ AGGLOMERATE	CAESAR STONE	QUARTZ SURFACES	4004	RAW CONCRETE	SLAB 3/4"	BREAKROOM COUNTERS	STRAIGHT EDGE	NO BACKSPLASH	MAGGIE RYBAK 619 623 0536
Q-2	QUARTZ AGGLOMERATE	CAESAR STONE	QUARTZ SURFACES	7141	QUARTZ REFLECTIONS	SLAB 3/4"	RESTROOM COUNTERS	STRAIGHT EDGE	NO BACKSPLASH	MAGGIE RYBAK 619 623 0536
Q-3	QUARTZ AGGLOMERATE	CAESAR STONE	QUARTZ SURFACES	5000	LONDON GREY	SLAB 3/4"	WELLNESS ROOM COUNTER	STRIGHT EDGE	DO 1' BACKSPLASH	MAGGIE RYBAK 619 623 0536
Q-4	QUARTZ AGGLOMERATE	CAESAR STONE	QUARTZ SURFACES	5141	FROSTY CARRINA	SLAB 3/4"	SERVERY COUNTERS	STRAIGHT EDGE	4" BACKSPLASH	MAGGIE RYBAK 619 623 0536
Q-6	SOLID SURFACE	DUPONT	CORIAN		GLACIER ICE	1/2"	RECEPTION DESK AND FEATURE WALL	STRAIGHT EDGE		LAUREN OTONICAR 858 731 6965

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT

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GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC
2.6	01.19.18	ASI 2.4

IFC 11.20.17

Sheet Title
FINISH SCHEDULE

Sheet No.
2I-601

DPR Issued Sheet 2018-01-19
Link to the Sheet - 2G-002

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GENERAL NOTES

1. ALL WALL BENCHTOPS AND MOVABLE TABLES SHALL BE 33" DEEP INCLUDING WALL BENCH BACK SPLASH (UNLESS OTHERWISE NOTED).
2. ALL BENCHES AND TABLES SHALL BE 36" HIGH (UNLESS OTHERWISE NOTED).
3. REFER TO FLOOR PLAN FOR WORK SURFACE MATERIAL.
4. ALL BACK & SIDE SPLASHES TO BE 4" HIGH & 1" THICK EPOXY RESIN (UNLESS OTHERWISE NOTED).
5. PROVIDE SIDE SPLASHES AT ALL BENCH TOPS AGAINST FUME HOODS AND/OR ADJACENT WALLS.
6. OVERALL LENGTH OF BENCHTOPS SHALL BE DETERMINED BY CASEWORK SIZES AND DIMENSIONS AS INDICATED ON PLANS. TOPS SHALL OVERHANG 1/2" AT EACH END AND 1" FROM FRONT OF BASE CABINETS AND TABLES. WHEN OVERALL DEMENSIONS ARE GIVEN, 1/2" OVERHANG IS NOT INCLUDED.
7. ALL CASEWORK, FUME HOODS AND ANY OTHER FURNISHINGS WITH EXPOSED-TO-VIEW BACKS AND SIDES SHALL BE FINISHED.
8. INSTALL CLOSURE PANELS BETWEEN BACK OF CABINETS OR HOODS AND WALLS AT EXPOSED ENDS AND BETWEEN BASE CABINETS AND/OR HOODS THAT ARE SET BACK TO BACK.
9. ALL PENETRATIONS THROUGH BENCHTOP SHALL BE SEALED WITH SEALANT.
10. BACKS OF COUNTERTOPS AND SPLASHES AGAINST WALLS SHALL BE SEALED TO THE WALL WITH SEALANT.
11. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
12. ARCHITECT TO SELECT COLORS FROM MANUFACTERERS STANDARD COLORS.
13. FREE STANDING SHELVING AND CASEWORK LESS THAN 18" DEEP SHALL BE SECURED TO PREVENT TIPPING. SUBMIT SHOP DRAWINGS OF ATTACHMENT PRIOR TO INSTALLATION.
14. FOR LABORATORY SERVICE FITTING TYPES, LOCATIONS AND ORDER, SEE LABORATORY FURNISHINGS PLANS. THESE FITTINGS SHALL BE PROVIDED UNDER DIVISION 12, FOR INSTALLATION UNDER DIVISION 22.
15. ALL SNORKEL EXHAUST SHOWN ON THESE DRAWINGS SHALL BE PROVIDED UNDER DIVISION 12.
16. LOCATION OF EQUIPMENT, SUCH AS FUME HOODS, OVERHEAD SERVICE CARRIERS, BRACES OR ANY OTHER ITEMS THAT MAY INTERFERE WITH LIGHTING, STRUCTURAL OR MECHANICAL SYSTEMS, SHALL BE CAREFULLY COORDINATED. NOTIFY G.C. OF DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
17. UNLESS OTHERWISE NOTED, ALL MISCELLANEOUS CHANNELS, BRACKETS AND FITTINGS INDICATED ON ALL LABORATORY FURNISHINGS DRAWINGS SHALL BE SUPPLIED, INSTALLED AND PAINTED UNDER DIVISION 12.
18. CONTRACTOR SHALL EXAMINE ALL LABORATORY FURNISHINGS PLANS AND COORDINATE WITH REFLECTED CEILING PLANS FOR PROPER CEILING HEIGHTS & PIPE DROP ENCLOSURE HEIGHTS AND LOCATIONS.
19. OVERHEAD SERVICE CARRIERS, HEAVY DUTY UNISTRUT AND OTHER STRUCTURALLY ANCHORED AND SUSPENDED DEVICES WHICH REQUIRE COORDINATION WITH OTHER TRADES SHALL BE THE RESPONSIBILITY OF THIS DIVISION (UNLESS OTHERWISE NOTED). ADDITIONAL FRAMING MAY BE REQUIRED TO ACCOMMODATE ANCHORAGE AROUND DUCTWORK OR OTHER OBSTRUCTIONS.
20. SERVICE FITTINGS SHOWN ON THE "LF" PLAN DRAWINGS ARE FOR LOCATION ONLY. REFER TO SPECIFICATIONS AND DETAILS FOR ACTUAL FITTINGS.
21. UNLESS OTHERWISE NOTED ALL ELECTRICAL RACEWAYS & RECEPTACLES ARE TO BE MOUNTED AT +43" A.F.F. TO THE BOTTOM OF THE DEVICE.
22. PAPER TOWEL DISPENSERS & SOAP DISPENSERS ARE OWNER FURNISHED, OWNER INSTALLED. (2.2)

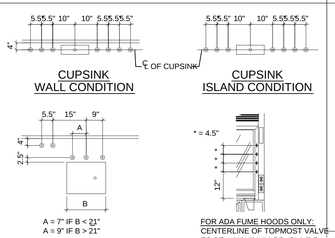
WORK SURFACE SYMBOLS LEGEND

-ALL WORK SURFACES TO BE 1" THICK TRESPA
-REFER TO SPECIFICATIONS

DETAIL & ELEVATION LEGEND

DETAIL NUMBER / SHEET NUMBER
SECTION NUMBER / SHEET NUMBER
ELEVATION NUMBER / SHEET NUMBER

SERVICE FIXTURE SPACING



CUPSINK WALL CONDITION

CUPSINK ISLAND CONDITION

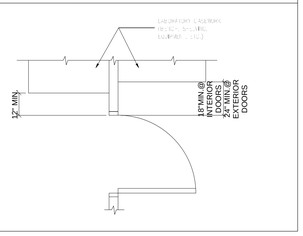
A = 7" IF B < 21"
A = 9" IF B > 21"

LAB SINK WALL & ISLAND CONDITIONS

FOR ADA FUME HOODS ONLY:
CENTERLINE OF TOPMOST VALVE TO BE A MAXIMUM OF 48" A.F.F.

FUME HOOD

DOOR/CASEWORK CLEARANCES



LABORATORY SYMBOLS LEGEND

	DESCRIPTION	
*CFH	-CHEMICAL FUME HOOD, REFER TO FLOOR PLANS FOR SIZE REFER TO FLOOR PLANS FOR SERVICES & BASE CABINETS BENEATH	1 & 2 / LF4.1
*BSC	-OFOI BIOLOGICAL SAFETY CABINET CLASS II, TYPE A-2 REFER TO FLOOR PLANS FOR SIZE -REFER TO FLOOR PLANS FOR SERVICES	
33x72	LABORATORY BENCH, REFER TO FLOOR PLANS FOR SIZE & TYPE	1,2 & 3 / LF4.3
+36"	FIXED LABORATORY BENCH	
+34"	FIXED LABORATORY BENCH - ADA	
	METRO SHELF RACK OFOI	
E-	MEDIUM AUTOCLAVE (ENCLOSED) 24"X24"X48" CHAMBER	
E-	MEDIUM AUTOCLAVE (RECESSED) 24"X24"X48" CHAMBER	
E-	LABORATORY GLASSWARE WASHER	
E-	CAGE & BOTTLE WASHER	
CS42	CORROSIVE STORAGE CABINET	
SS43	SOLVENT STORAGE CABINET	
VENTILATED RACK	VENTILATED RACK, OWNER FURNISHED, OWNER INSTALLED	
1	UMBILICAL (PIPE DROP ENCLOSURE)	4,5 & 6 / LF4.1
2	DRYING RACK	6 / LF4.2
3	CYLINDER RESTRAINT	2 / LF4.4
4	SLEEVE IN WORK SURFACE	3 / LF4.4
5	LOCAL WATER POLISHER, OFOI	
6	ST. STL. ENCLOSURE PANEL, REFER TO SPECIFICATIONS	
7	(2) TIER ADJUSTABLE SHELVING	5 / LF4.2
8	LABORATORY FUME EXTRACTOR (2.2)	3 / LF4.1
	LABORATORY SINK REFER TO SINK SCHEDULE ON LF 1.2	5 / LF4.4
	HAND WASH SINK REFER TO SINK SCHEDULE ON LF1.2 & REFER TO SPECIFICATIONS	
	SCULLERY SINK REFER TO FLOOR PLANS FOR SIZE & LABORATORY SINK SCHEDULE ON LF1.2	2 / LF5.3

	SAFETY SHOWER / EYE WASH COMBINATION UNIT (RECESSED)	1 / LF5.3
EQUIP SPACE	OWNER FURNISHED, OWNER INSTALLED EQUIPMENT	
SC24	SUPPLY CART	4 / LF4.3
	DUPLEX RECEPTACLE	
E	DUPLEX RECEPTACLE ON EMERGENCY POWER	
FD	FLOOR DRAIN, SHOWN FOR LOCATION PURPOSES ONLY BY DIV. 22	
FS	FLOOR SINK, SHOWN FOR LOCATION PURPOSES ONLY BY DIV. 22	
HWCW	HOT WATER COLD WATER	
DI	DEIONIZED WATER	
LV	LABORATORY VACUUM	
CO2	CARBON DIOXIDE	
A(100#)	COMPRESSED AIR (100 PSIG) PROVIDE REGULATOR	
EYE WASH	DECK MOUNTED EYE WASH	

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LABORATORY FURNISHINGS SYMBOLS & LEGENDS

Sheet No.
LF1.1

2/1/2016 4:02:03 PM

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SERVICE FITTING SCHEDULE

ABBREVIATION	NOTES	MOUNTING	DETAIL
HWCW	HOT WATER COLD WATER MIXING VALVE	DECK	1 / LF5.2
HWCW	HOT WATER COLD WATER MIXING VALVE	PANEL	2 / LF5.2
HWCW PRE RINSE	HOT WATER COLD WATER MIXING VALVE	PANEL	3 / LF5.2
A(100#)	COMPRESSED AIR, 100 PSIG	PANEL	9 / LF5.2
LV	LABORATORY VACUUM	PANEL	* / LF5.1
LV	LABORATORY VACUUM	CHEMICAL FUME HOOD	4 / LF5.2
LV	LABORATORY VACUUM	ADA CHEMICAL FUME HOOD	5 / LF5.2
CO2	CARBON DIOXIDE	PANEL	* / LF5.1
SS	SAFETY SHOWER / EYE WASH COMBINATION UNIT	RECESSED	1 / LF5.3

SERVICE FITTING SCHEDULE CONTINUED

ABBREVIATION	NOTES	MOUNTING	DETAIL
EYE WASH	EYE WASH	DECK	6 / LF5.2
DI	DEIONIZED WATER	DECK	7 / LF5.2
DI	DEIONIZED WATER	PANEL	8 / LF5.2
LV	LABORATORY VACUUM	DECK	3 / LF5.3

2.2

LABORATORY SINK SCHEDULE

SINK NUMBER	DESCRIPTION	OUTLET	WIDTH x DEPTH x HEIGHT	NOTES:
SK1	EPOXY RESIN	SIDE	21" x 17" x 10"	DROP IN
SK2	EPOXY RESIN	SIDE	(2) 18" x 15" x 10" BOWLS	DROP IN
SK3	EPOXY RESIN	SIDE	28" X16" X 5" & 10 1/2"	DROP IN ADA COMPLIANT
SK4	HAND WASH	CENTER	22" x 16" x 10"	WALL-HUNG JUST MFR. MODEL# HCL-23520
SK5	STAINLESS STEEL	CENTER	(2) 24" x 24" x 14" BOWLS 72" OR 96" X 32" WIDTH	SCULLERY SINK REFER TO FLOOR PLANS FOR SIZE

LABORATORY EQUIPMENT SCHEDULE

No.	DESCRIPTION	LOCATION	NOTES:
E-1	CAGE & BOTTLE WASHER CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	LEVEL 1 WASH AREA #139	
E-2A	LABORATORY GLASSWARE WASHER & DRYER CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	LEVEL 2 BUFFER ROOM#1219	
E-2B	AUTOCLAVE (26" X37.5" X 36" CHAMBER) CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	LEVEL 2 BUFFER ROOM #219	
E-2C	AUTOCLAVE (26" X37.5" X 36" CHAMBER) CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	LEVEL 2 BUFFER ROOM #219	
E-2D	AUTOCLAVE (20" X20" X 38" CHAMBER) CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	LEVEL 2 BUFFER ROOM #219	FUTURE UNIT PER BIOLEGEND
E-3	AUTOCLAVE (20" X20" X 38" CHAMBER) CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	LEVEL 3 BUFFER #359	OWNER FURNISHED, CONTRACTOR INSTALLED TAUTTNAUER MODEL # 66120-ECO-V
E-4	AUTOCLAVE (20" X20" X 38" CHAMBER) CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	LEVEL 4 BUFFER ROOM #417	FUTURE UNIT PER BIOLEGEND

2.2

CONTROLLED ENVIRONMENTAL ROOM SCHEDULE

SHEET #	ROOM #	EXTERNAL WIDTH	EXTERNAL LENGTH	INTERNAL HEIGHT	DESIGN TEMP (°C)	TEMP. TOLERANCE (°C)	RELATIVE HUMIDITY (% RH) SEE NOTE #3	HUMIDITY RANGE	CONDENSING UNIT		VENTILATION AIR (CFM) SUPPLY & EXHAUST	FLOOR REQUIRED	RAMP REQ'D.	FIRE RATED DOOR REQ'D	NOTES:
									COOLING (AIR / WATER)	LOCATION					
LF2.1	156	17'-0"	26-0"	8'-0"	4*	± 2*	VERIFY	--	AIR	REMOTE	25	NO	NO	NO	
LF2.1	155	13'-6"	20'-6"	8'-0"	VERIFY	± 2*	VERIFY	--	AIR	REMOTE	25	YES	NO	NO	
LF2.2D	223	VARIES	VARIES	8'-0"	4*	± 2*	VERIFY	--	AIR	REMOTE	25	YES	YES	NO	REFER TO NOTE #3
LF2.3C	350	VARIES	VARIES	8'-0"	4*	± 2*	VERIFY	--	AIR	REMOTE	25	YES	YES	NO	
LF2.3C	352	13'-6"	24'-6"	8'-0"	4*	± 2*	VERIFY	--	AIR	REMOTE	25	YES	YES	NO	
LF2.4D	417	10'-0"	35'6"	8'-0"	4*	± 2*	VERIFY	--	AIR	REMOTE	25	YES	YES	NO	

NOTES:
1. FIELD VERIFY SPACE AVAILABLE
2. LOCATE LAB SUPPLY DUCT UPSTREAM OF REHEAT COIL.
3. PROVIDE DESICCANT DRYER ON SUPPLY AIR TO AVOID CONDENSATION.
4. INTERIOR HEIGHT TO BE 8'-0" U.O.N.

CHEMICAL FUME HOOD & OTHER EXHAUSTED DEVICE SCHEDULE

HOOD IDENT.	HOOD TYPE	SILL TYPE	HOOD WIDTH	MAX. SASH HEIGHT	NO. OF VERT. SASHES	HORIZ. SASHES			FACE VELOCITY (FPM)	DESIGN EXHAUST (CFM)	VAV. MIN. EXHAUST (CFM)	EXHAUST DUCT COLLAR	EXHAUST DUCT SIZE	MAX. STATIC PRESS.	NOTES:
						NO.	PANEL WIDTH	NO. OF TRACKS							
6' CFH	BENCHTOP CHEMICAL	FLUSH SILL	72"	36"	1	-	-	-	100	800	325	6" x 18"	12"	0.50"	BASED UPON 18" SASH OPENING FROM THE BENCHTOP
8' CFH	BENCHTOP CHEMICAL	FLUSH SILL	96"	36"	1	2	43"	2	100	1100	450	(2) 10" DIAMETER	12"	0.50"	BASED UPON 18" SASH OPENING FROM THE BENCHTOP
SNORKEL 8	LABORATORY FUME EXTRACTOR	-	-	-	-		-	-	-	50	-	4"	-	0.5"	-
VP36	VACUUM PUMP CABINET	-	-	-	-		-	-	-	100	-	4"	4"	-	

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LABORATORY FURNISHINGS SCHEDULES

Sheet No.
LF1.2

2/1/2016 4:02:03 PM

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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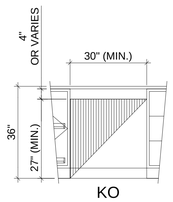
D24 — DESIGNATES BASE CABINET TYPE; DESIGNATES BASE CABINET WIDTH

WC36 — DESIGNATES WALL-HUNG CABINET; DESIGNATES CABINET TYPE; DESIGNATES WALL-HUNG CABINET WIDTH

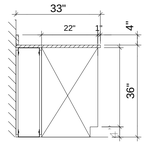
F — DESIGNATES FILLER PANEL

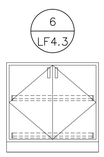
x — DESIGNATES LOCKABLE CASEWORK



KO

KNEE OPENING



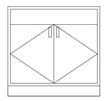


(2) ADJUSTABLE PULL-OUT SHELVES

C

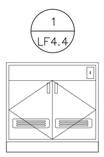


D



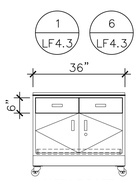
S36

SINK CABINET



VP36

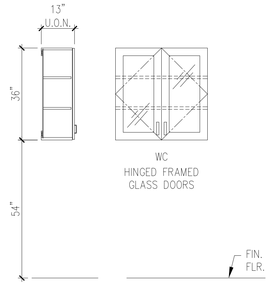
VACUUM PUMP CABINET



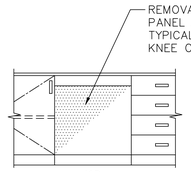
(1) ADJUSTABLE PULL-OUT SHELF

MOBILE BASE CABINET TO FIT BENEATH "A" TYPE BENCH. PROVIDE (1) MOBILE BASE CABINET AT EACH "A" TYPE BENCH.

STANDING HEIGHT CABINETS

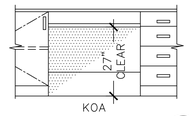


WALL CABINET



KO

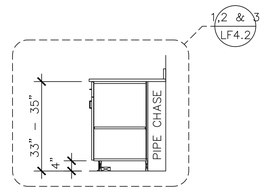
KNEE OPENING W/APRON (PROVIDE 4" HIGH APRON AT 36" TOPS AND 2" HIGH APRON AT 30" TOPS)



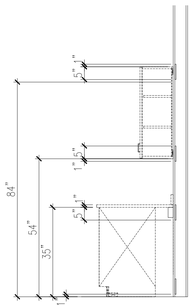
KOA

KNEE OPENING @ ADA SINK W/PANEL TO CONCEAL PIPING

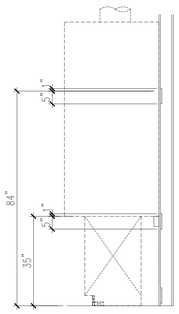
4
LF4.2



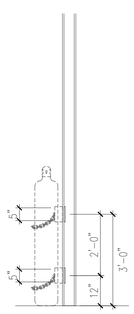
KNEE OPENINGS (KO)



CASEWORK CONDITION



CHEMICAL FUME HOOD CONDITION

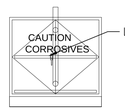


CYLINDER RESTRAINT

RECOMEMNDED CASEWORK BACKING LOCATIONS

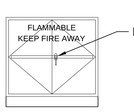
BACKING / ANCHORAGE NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR ANCHORAGE DETAILS.
2. WALL REINFORCEMENT LOCATIONS TO BE CONFIRMED BY CASEWORK MANUFACTURER DURING SHOP DRAWING REVIEW AND COORDINATED WITH THE GENERAL CONTRACTOR & ALL OTHER APPLICABLE TRADES.
3. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES & SUBMIT ALTERNATE ANCHORAGE METHODS FOR CMU, BLOCK WALLS, ETC.



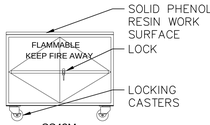
CS36

CORROSIVE STORAGE BASE CABINET



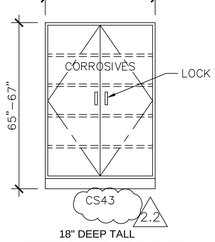
SS36

SOLVENT STORAGE BASE CABINET

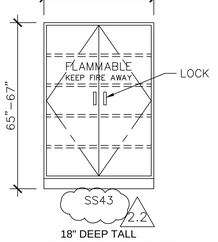


SS42M

MOBILE SOLVENT STORAGE BASE CABINET TO FIT BENEATH ADA CHEMICAL FUME HOOD LOCATED IN BUFFER ROOM #219



18" DEEP TALL CORROSIVE STORAGE CABINET



18" DEEP TALL SOLVENT STORAGE CABINET

SPECIALTY CABINETS

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LABORATORY FURNISHINGS CASEWORK KEY SHEET

Sheet No.
LF1.3

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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9/7/2006 11:26:27 AM

MACHINE ROOM 152 113 SF

VESTIBULE 143 89 SF

MEN'S RESTROOM 145 58 SF

WOMEN'S RESTROOM 141 58 SF

FREEZER ROOM 155 279 SF

COLD ROOM 156 435 SF

WASH AREA 139 174 SF

PROCEDURE 137 176 SF

STORAGE 114 77 SF

IDF 116 134 SF

EQUIPMENT 140 119 SF

HOLDING 135 163 SF

133 483 SF

WASH 112 538 SF

JANITORIAL/ MAINTENANCE STORAGE 136 131 SF

SERVERY 111 735 SF

HOLDING 131 115 SF

129B 85 SF

129A 94 SF

DISH DROP-OFF 109 186 SF

WOMEN'S RESTROOM 127 363 SF

MULTIPURPOSE ROOM 110A

JAN

0 1 4 8 FEET

SCALE: 1/8" = 1'-0"

GENE THEORY _

CP-2

VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 1614

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title

LEVEL 1 LABORATORY FURNISHINGS FLOOR PLAN

Sheet No.

LF2.1

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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COLD ROOM 223 641 SF

PC BULK STORAGE 221 600 SF

VESTIBULE 251 346 SF

STORAGE 265 1994 SF

JAN 257 58 SF

COAT CLOSET 253 46 SF

CONJ LAB 261 2689 SF

BV CONJ LAB LIGHT SENSITIVE 263 2309 SF

NORTH HALL 205 1490 SF

STOCK RM. 260 378 SF

BUFFER ROOM 219 2185 SF

WEST CORRIDOR 204 2326 SF

UTILITY 218 118 SF

STORAGE 214 395 SF

IT CLOSET 214A 130 SF

ELEC 216 95 SF

PROCESS DEVELOPMENT 264 1168 SF

COMM. 260 173 SF

OPEN OFFICE 256 847 SF

FLEX 262 117 SF

PHONE 264 54 SF

FLEX 266 115 SF

STAIR #5 05 277 SF

DN

DN

IRIF. LAB 217 898 SF

BOTTLING LAB 212 2342 SF

OPEN OFFICE 211 701 SF

BREAK RM. 210

W2

GENE THEORY

CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 1614

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

IFC 11.20.17

Sheet Title

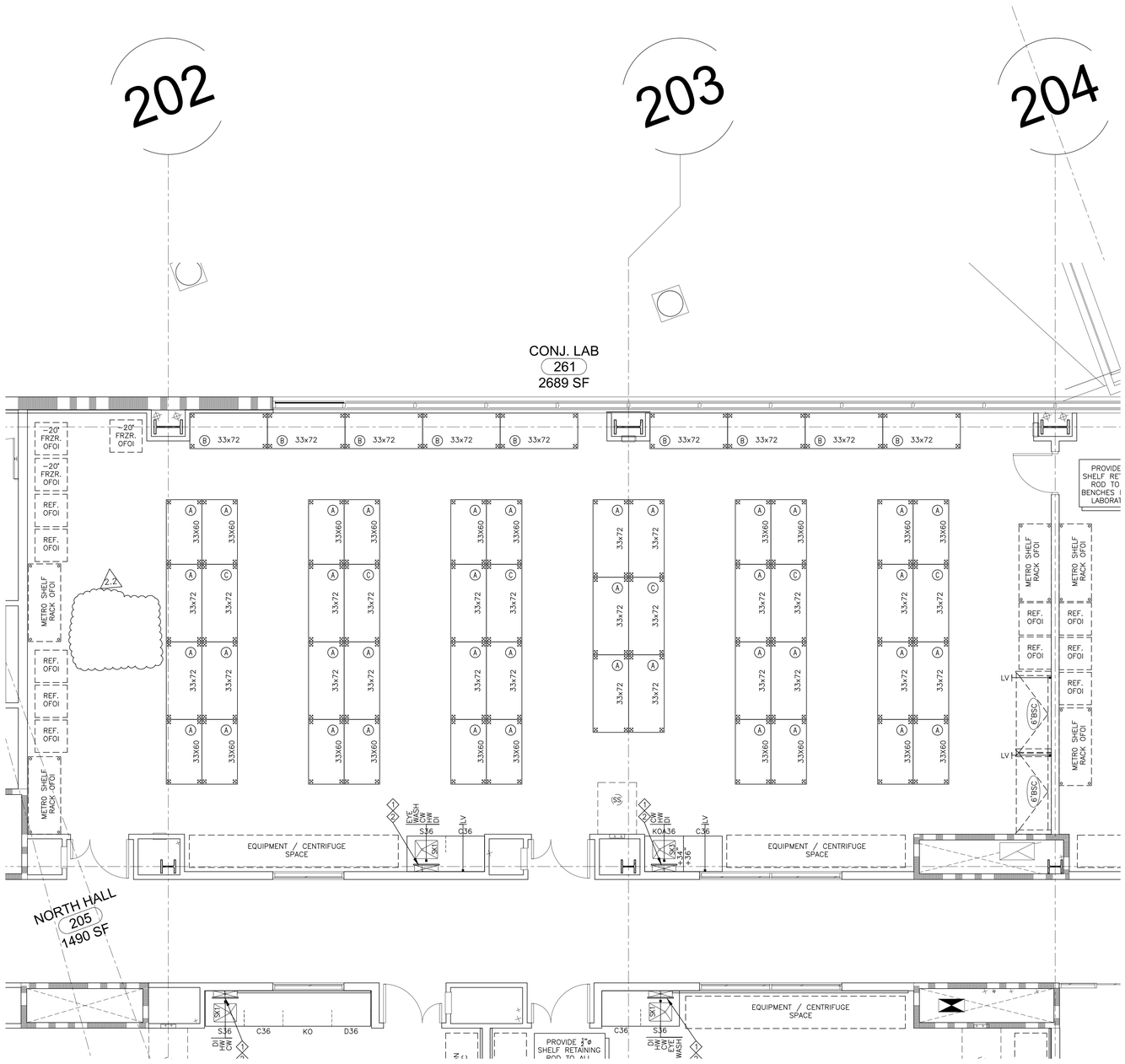
LEVEL 2
LABORATORY
FURNISHINGS
FLOOR PLAN

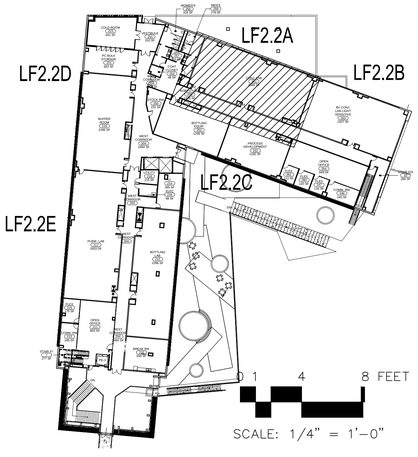
Sheet No.

LF2.2

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.





GENE THEORY

CP-2

VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 1614

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title

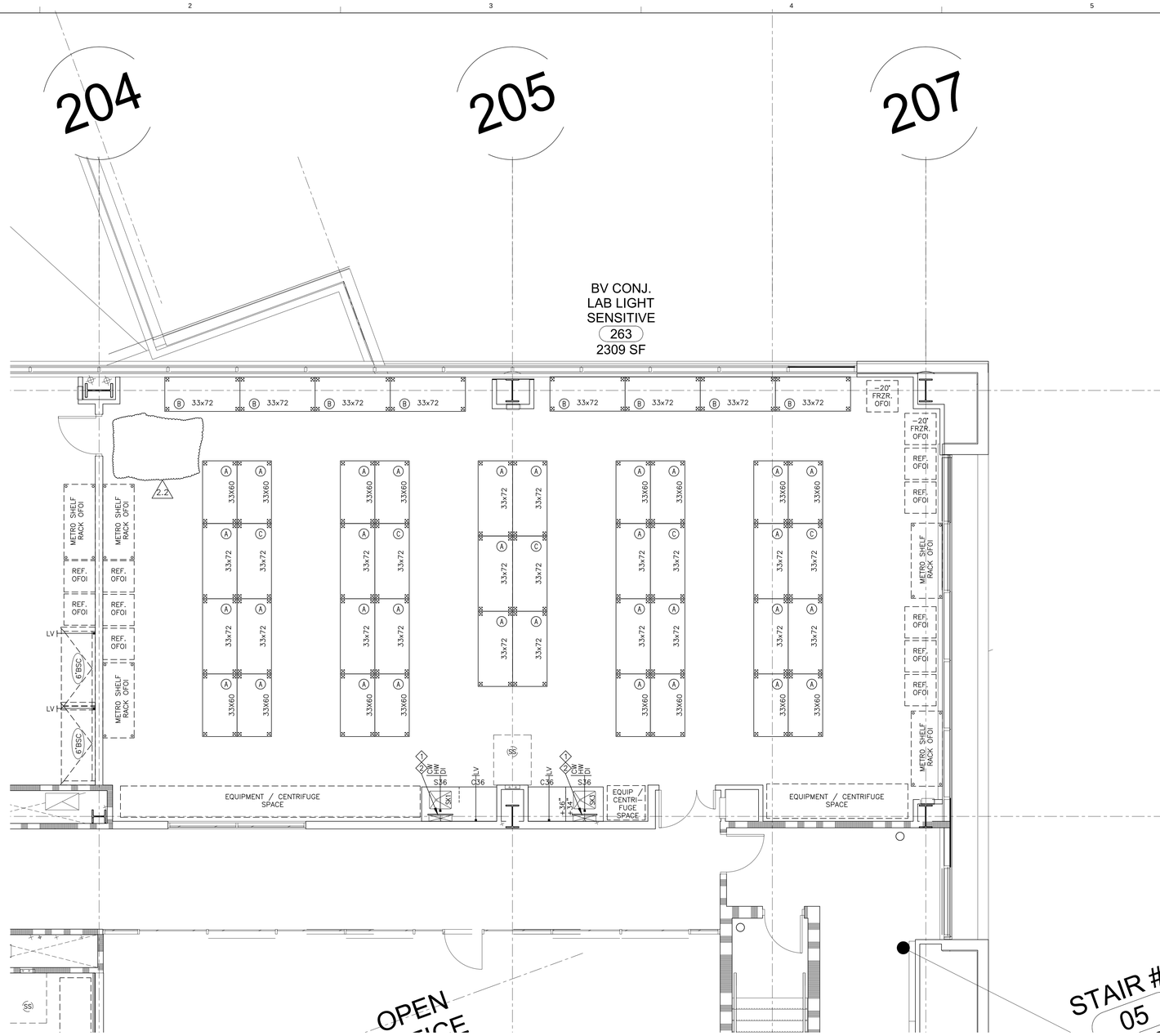
LEVEL 2 LABORATORY FURNISHINGS FLOOR PLAN

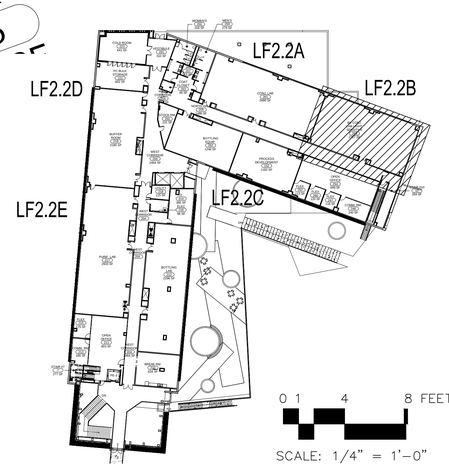
Sheet No.

LF2.2A

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.





GENE THEORY

CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 1614

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

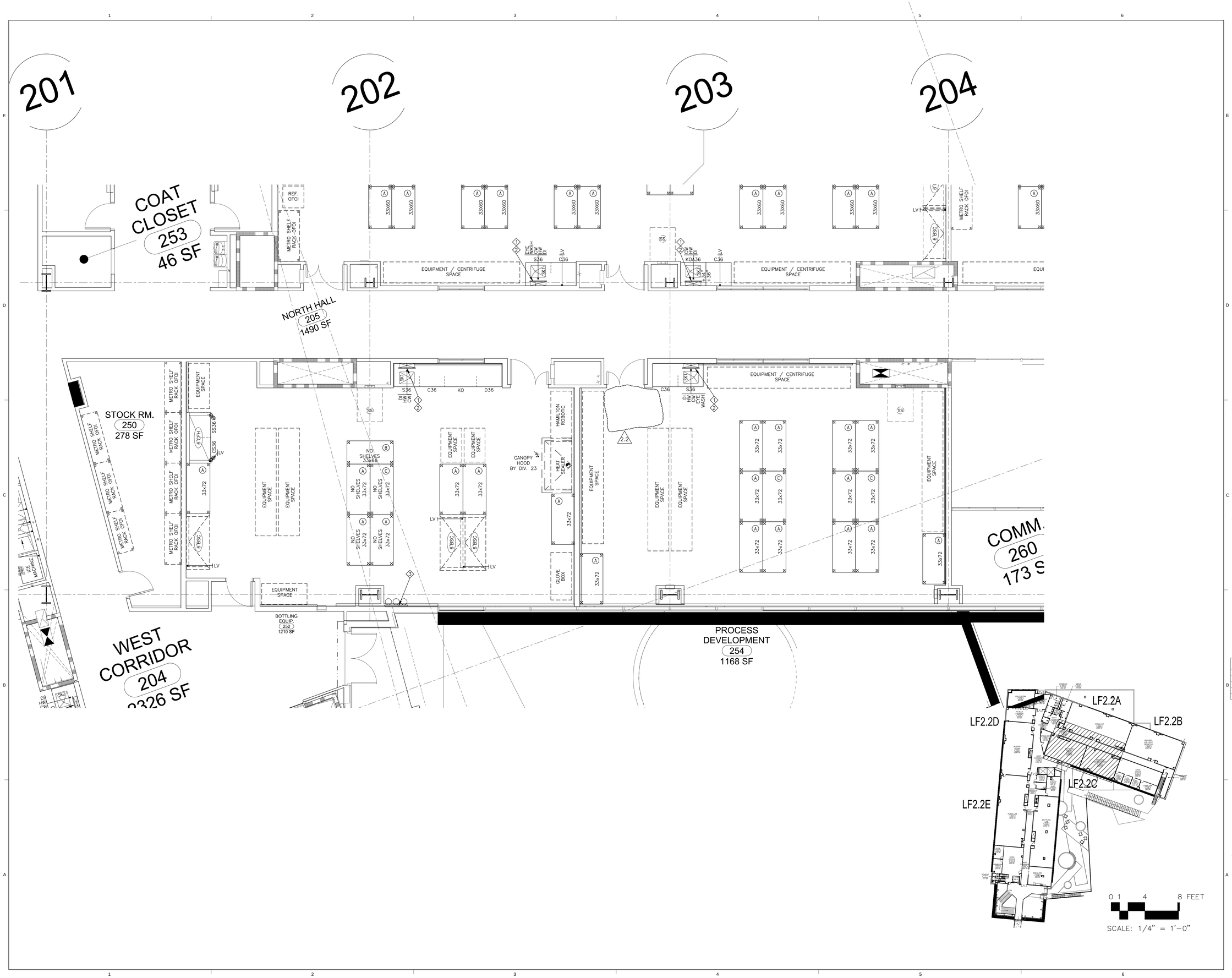
Sheet Title

LEVEL 2 LABORATORY FURNISHINGS FLOOR PLAN

Sheet No.

LF2.2B

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



GENE THEORY

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VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title

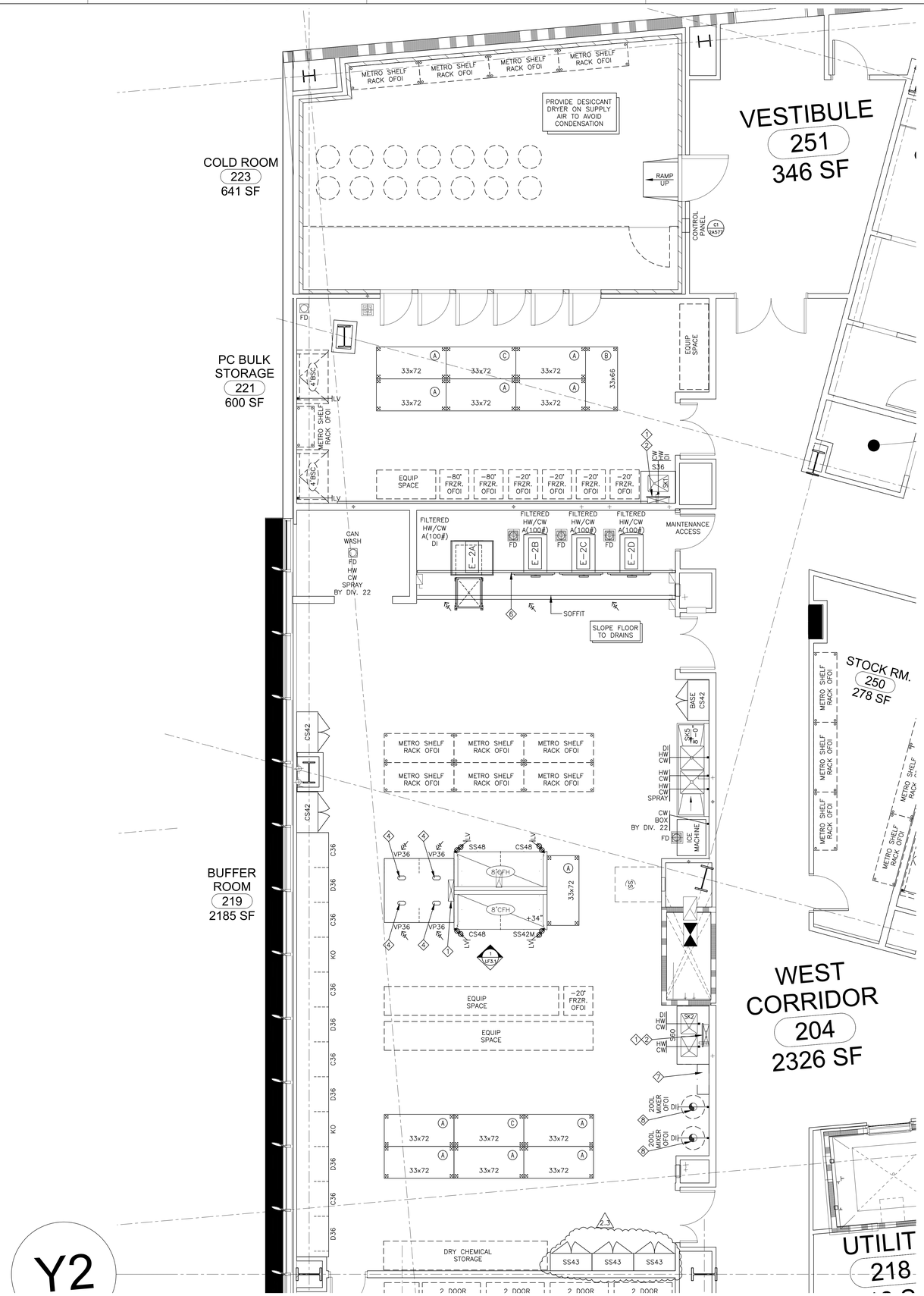
LEVEL 2
LABORATORY
FURNISHINGS
FLOOR PLAN

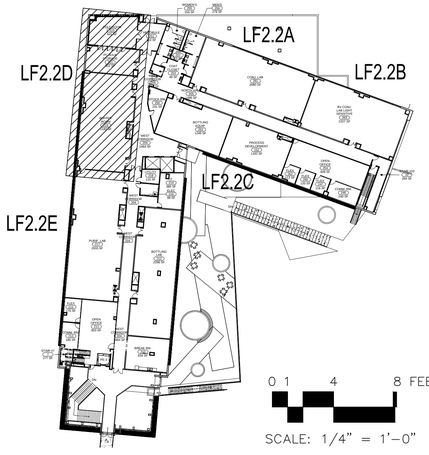
Sheet No.

LF2.2C

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002





GENE THEORY

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VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

IFC 11.20.17

Sheet Title

LEVEL 2 LABORATORY FURNISHINGS FLOOR PLAN

Sheet No.

LF2.2D

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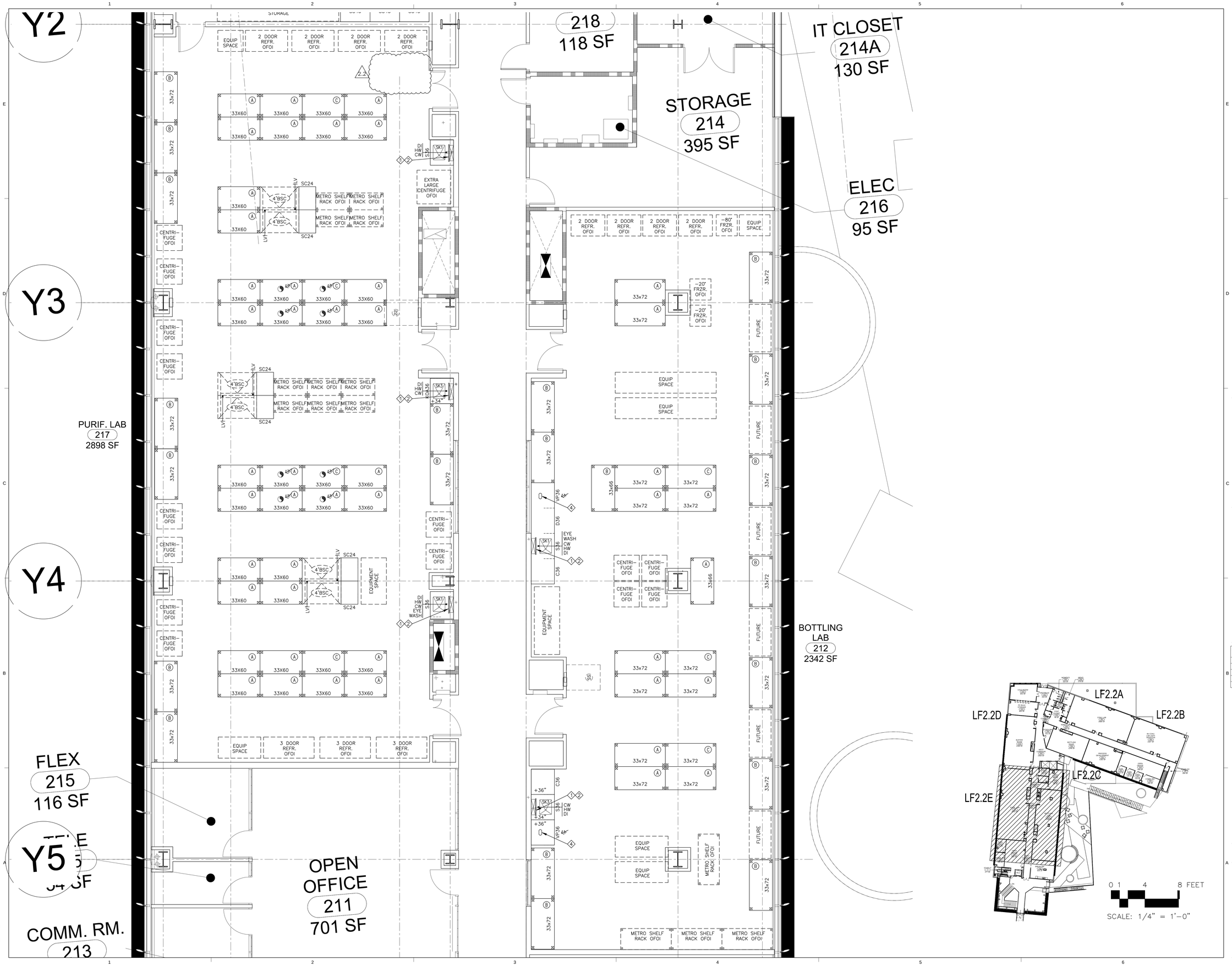

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VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title

LEVEL 2
LABORATORY
FURNISHINGS
FLOOR PLAN

Sheet No.

LF2.2E

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DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

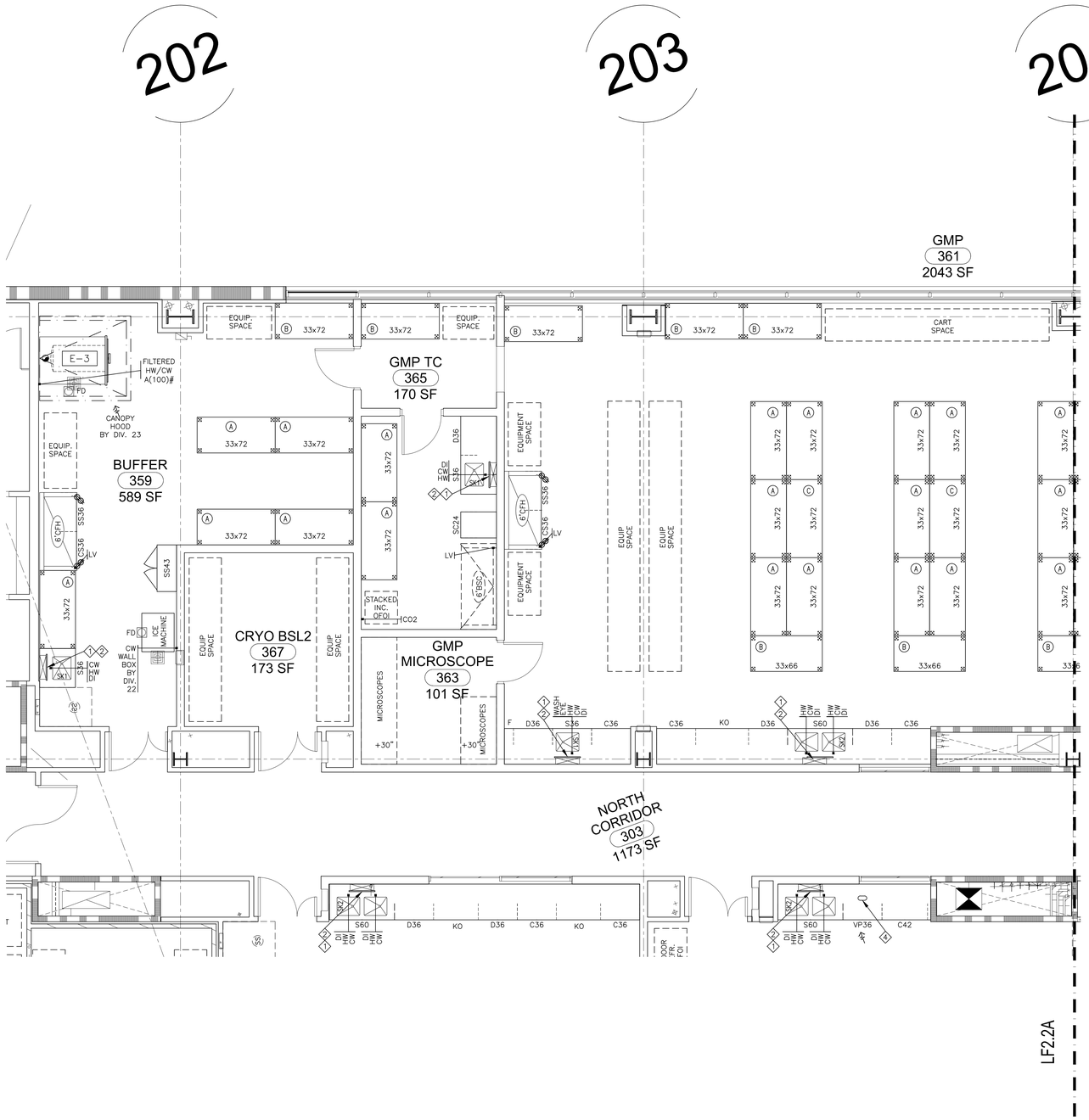
CITY SUBMITTAL SET
08.08.17

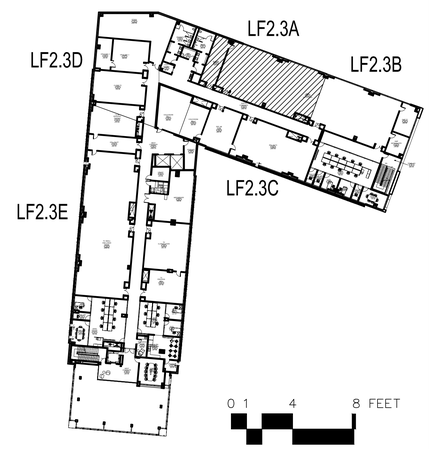
Sheet Title
LEVEL 3
LABORATORY
FURNISHINGS
FLOOR PLAN

Sheet No.
LF2.3

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.





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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

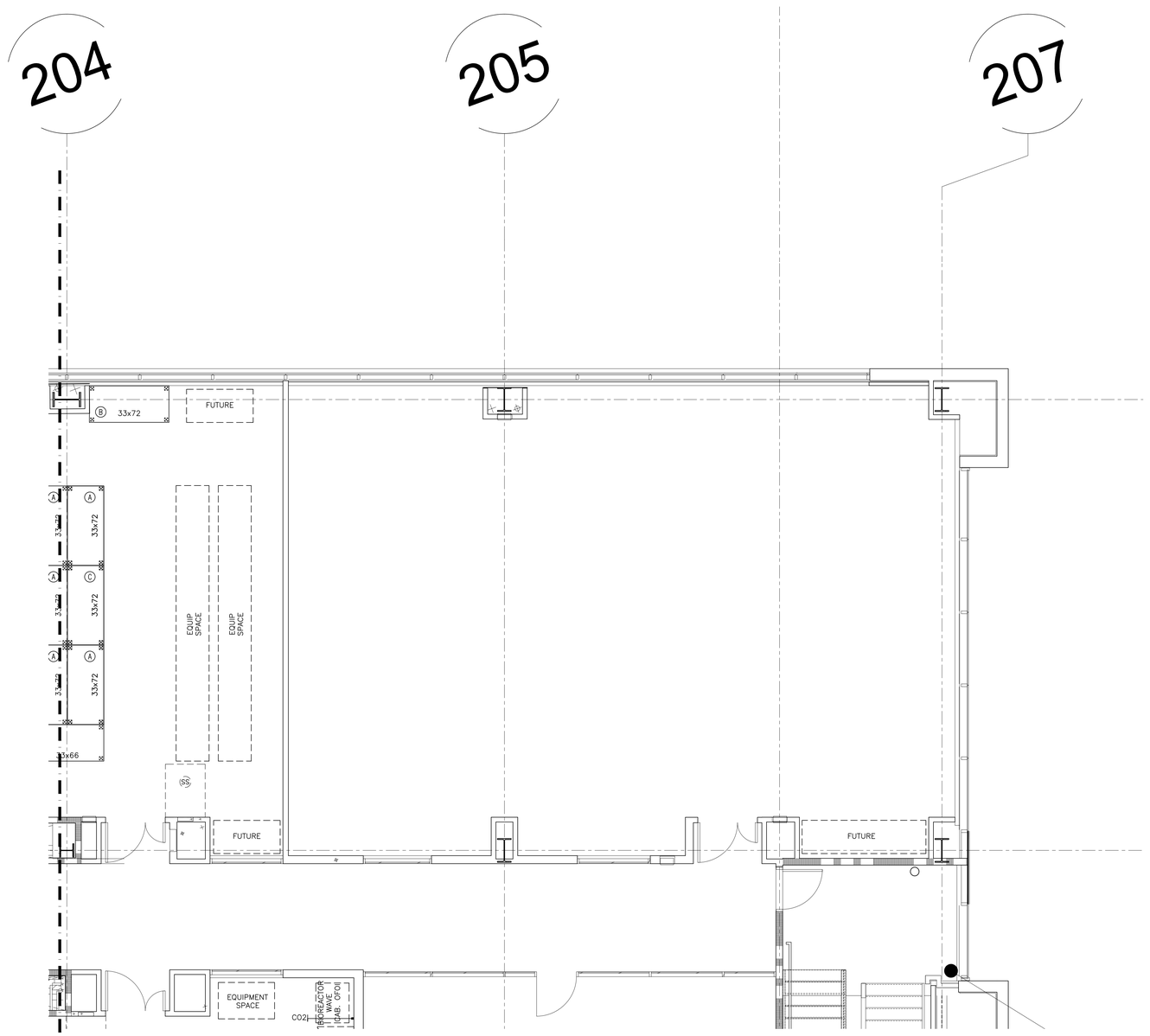
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

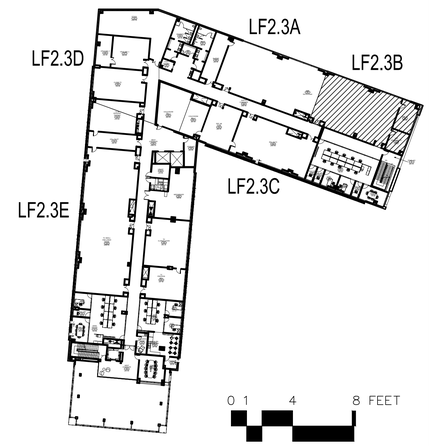
CITY SUBMITTAL SET
08.08.17

Sheet Title
LEVEL 3 LABORATORY FURNISHINGS FLOOR PLAN

Sheet No.
LF2.3A

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.





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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
LEVEL 3 LABORATORY FURNISHINGS FLOOR PLAN

Sheet No.
LF2.3B

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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202

203

204

46 SF

NORTH CORRIDOR
303
1173 SF

COLD ROOM
BSL 1
350
544 SF

COLD ROOM
BSL 2
352
335 SF

WEST CORRIDOR

REC AB PURE
354
886 SF

REC AB TC
356
1444 SF

FUTURE

EQUIPMENT SPACE

CART SPACE

METRO SHELF RACK OFOI

PALLETT

RAMP UP

CONTROL PANEL

2 DOOR REFR. OFOI

CENTRI-FUGE OFOI

REF. OFOI

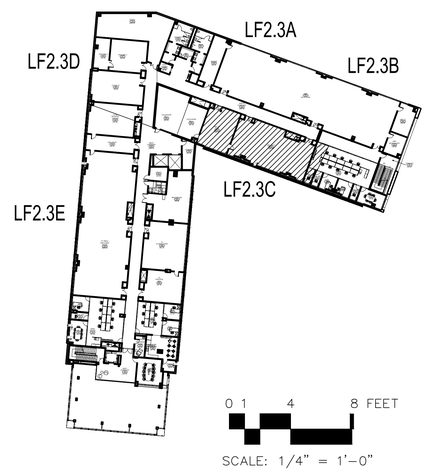
STACKED INC. OFOI

EQUIP SPACE

BIOREACTOR WAVE CAB. OFOI

33x72

33x66



0 1 4 8 FEET

SCALE: 1/4" = 1'-0"

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CP-2

VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title
LEVEL 3
LABORATORY
FURNISHINGS
FLOOR PLAN

Sheet No.
LF2.3C

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

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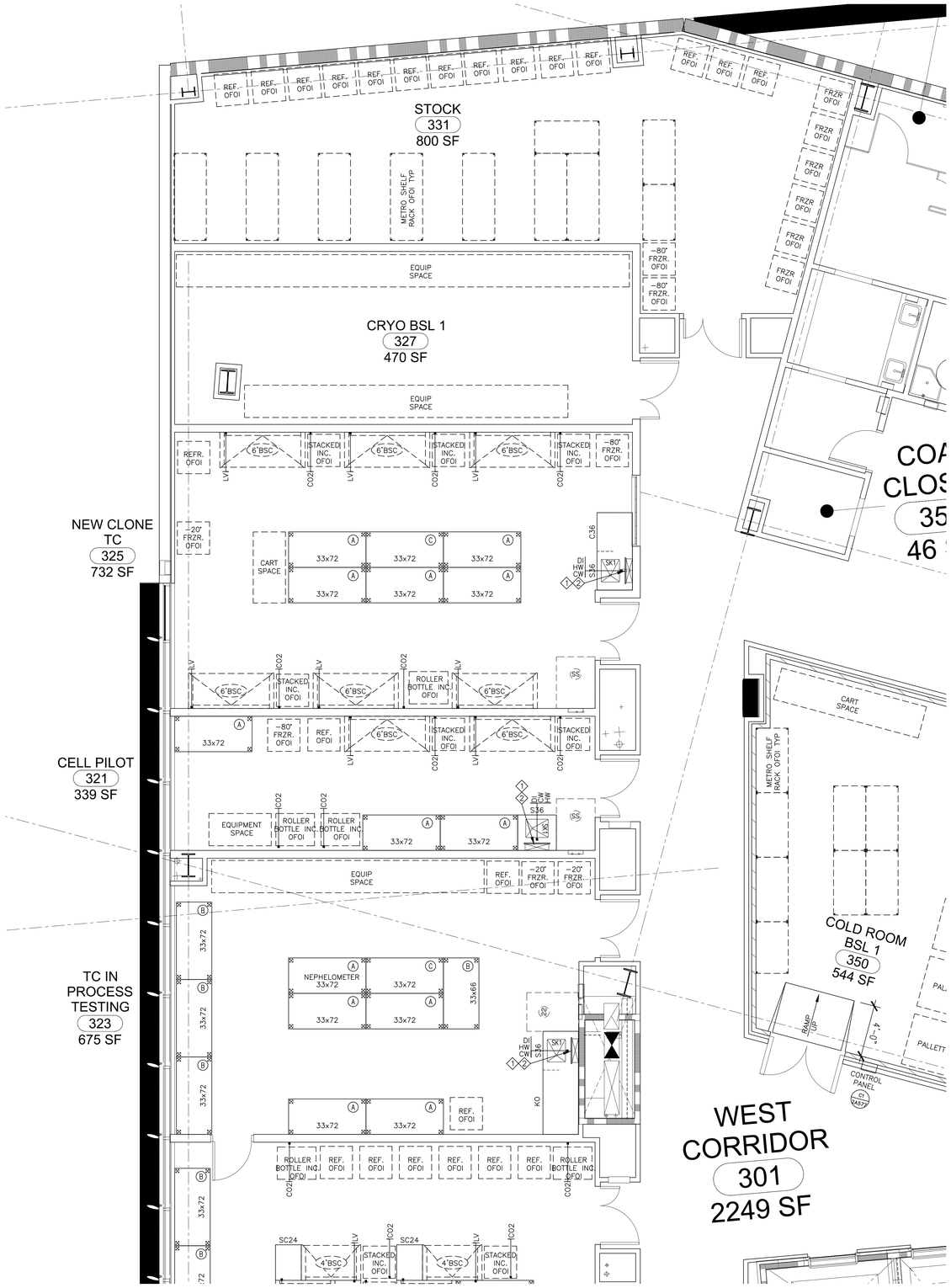

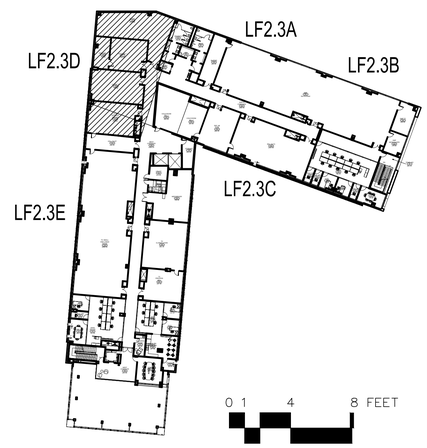

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EGENE THEORY.

CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

LEVEL 3 LABORATORY FURNISHINGS FLOOR PLAN

Sheet No.

LF2.3D

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CORRIDOR
301
2249 SF

STORAGE
338
74 SF

UTILITY
334
118 SF

ELEC
332
97 SF

MDF/SERVER
330
737 SF

TC SMALL AND LARGE SCALE
319
3680 SF

TC CLARIFICATION
328
883 SF

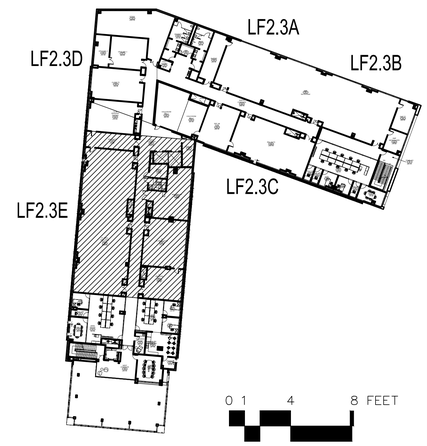
TC PROCESS DEV.
324
569 SF

FLEX

Y2

Y3

Y4



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CP-2

T 1450 VETERANS BLVD
S REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
LEVEL 3
LABORATORY
FURNISHINGS
FLOOR PLAN

Sheet No:
LF2.3E

A1

MEN'S 457 306 SF

WOMEN'S 461 301 SF

DRY RM 463 161 SF

BUFFER ROOM 471 417 SF

FLOW OC TC 473 245 SF

LYO 451 332 SF

JAN 459 58 SF

STORAGE 455 46 SF

FLOW CORE 421 1844 SF

FLOW OC MOUSE/HUMAN LAB 475 2991 SF

DARK ROOM 465 148 SF

NORTH HALL 403 1314 SF

CRYO ROOM 419 139 SF

COLD RM 417 316 SF

STOCK RM. 467 181 SF

WEST HALL 402 1637 SF

IP/PD-OC 464 342 SF

COMM. RM. 483

FLEX 487 125 SF

TELE. RM. 489 66 SF

OPEN OFFICE 481

DARK ROOM 472 60 SF

FLOW PD/CST TC 415 1076 SF

HYB TC 1 476 597 SF

HYB LAB 477 1076 SF

OPEN OFFICE 480 552 SF

STAIR #5 05 277 SF

ROOF ACCESS 438 78 SF

UTILITY 436 119 SF

ELEC 434 97 SF

IDF 432 376 SF

HYB TC 2 474 573 SF

FLEX. 482 103 SF

FLEX. 484 104 SF

TELE. RM. 486 52 SF

COMM. RM. 488 173 SF

CST LAB 430 1152 SF

FLOW PD 413 717 SF

FLEX RM. 424 112 SF

OPEN OFFICE 418 1054 SF

FLEX RM. 422 115 SF

FLEX OFFICE 420 113 SF

TELE. RM. 416 54 SF

PHLEBOTOMY 411

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GENE THEORY_

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1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 1614

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

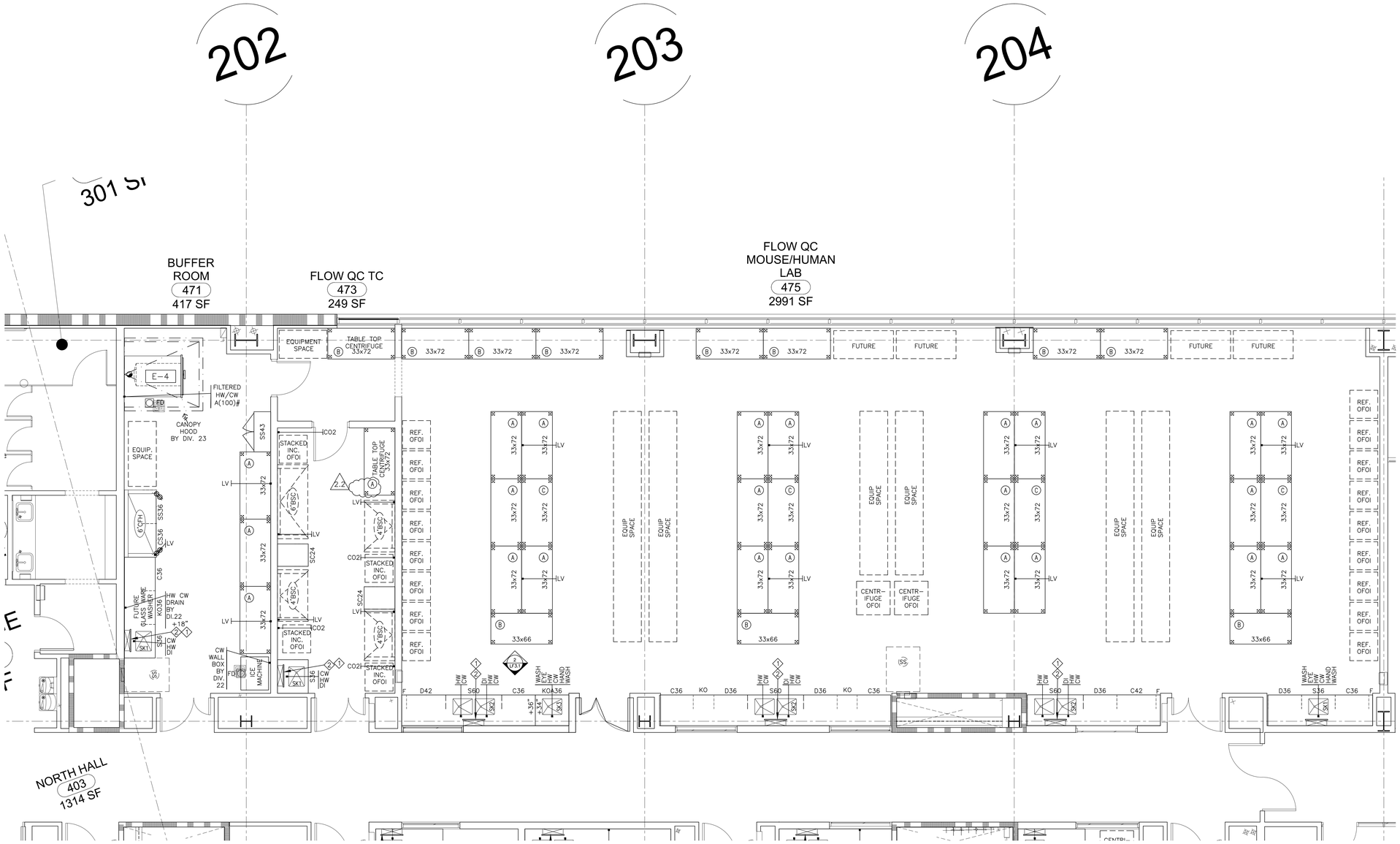
Sheet Title

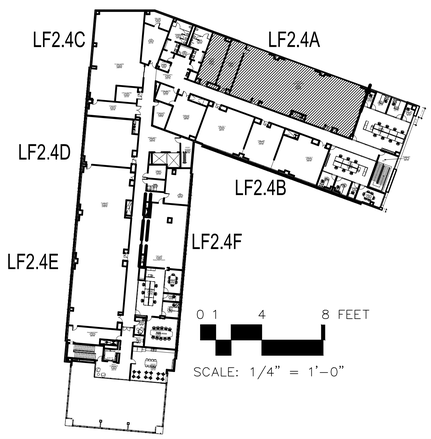
LEVEL 4 LABORATORY FURNISHINGS FLOOR PLAN

Sheet No.

LF2.4

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002





GENE THEORY_

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VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

Sheet Title

LEVEL 4 LABORATORY FURNISHINGS FLOOR PLAN

Sheet No.

LF2.4A

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

DPR Issued Sheet 2017-10-03
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202

203

204

STORAGE
455
46 SF

DARK ROOM
450
148 SF

NORTH HALL
403
1314 SF

STOCK RM.
452
181 SF

IF/PD-QC
454
542 SF

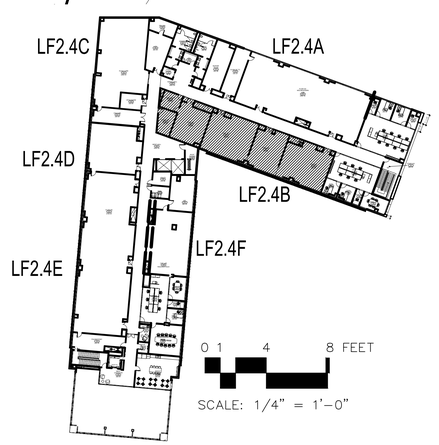
WEST HALL

HYB. TC 1
470
587 SF

HYB. LAB
472
1076 SF

HYB TC 2
474
575 SF

DARK ROOM
472A
80 SF



GENE THEORY_

CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 1614

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2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2

ADDENDUM 2.2
10.03.17

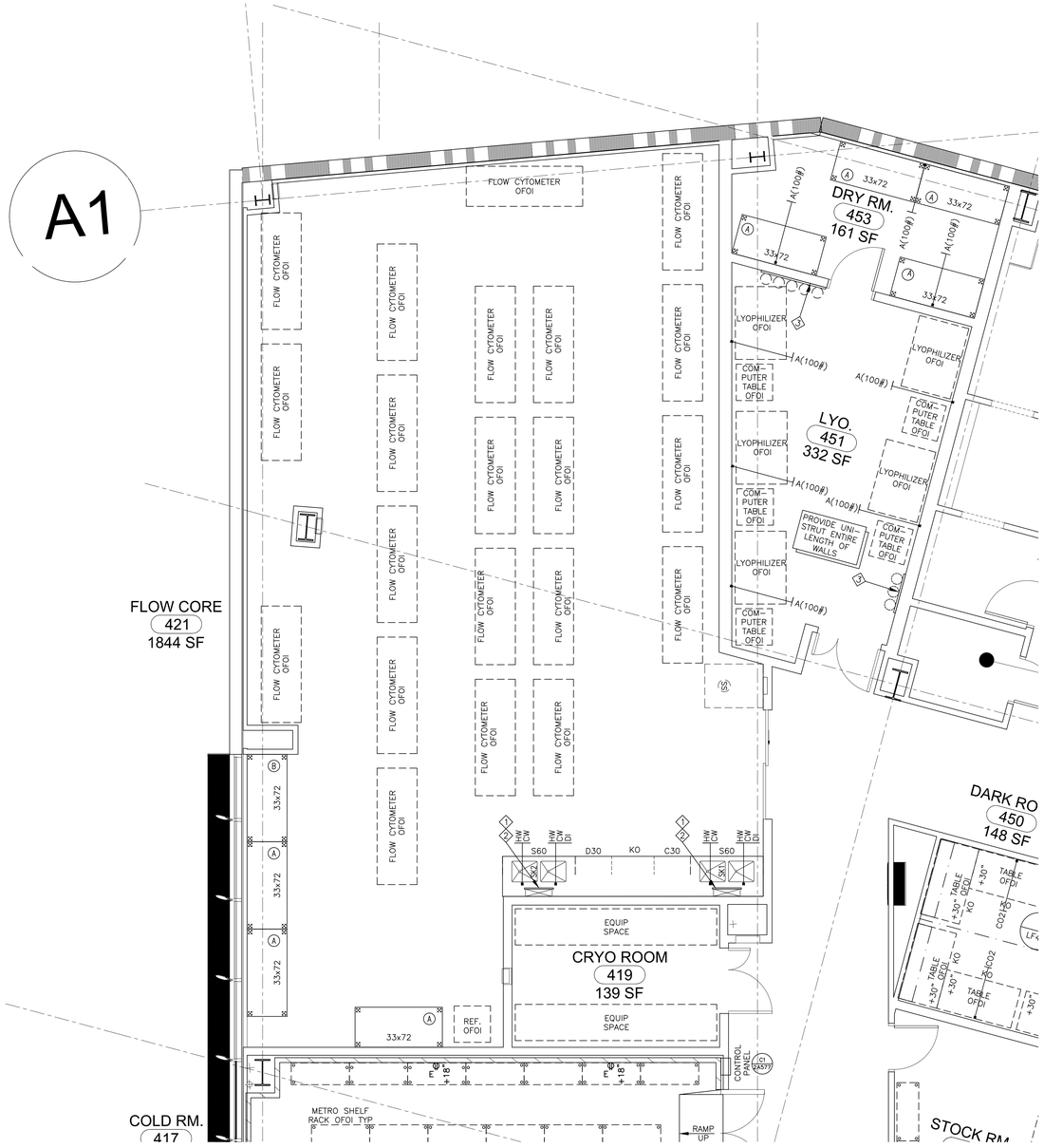
Sheet Title
LEVEL 4
LABORATORY
FURNISHINGS
FLOOR PLAN

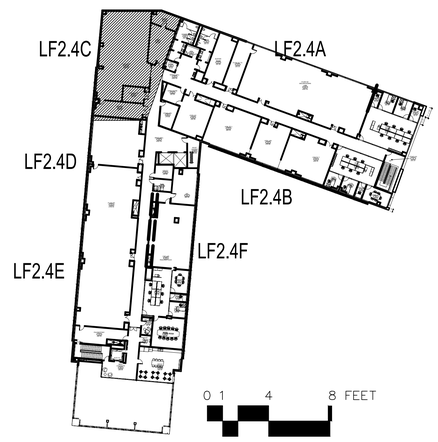
Sheet No.
LF2.4B

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

A1





GENE THEORY_

CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 1614

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

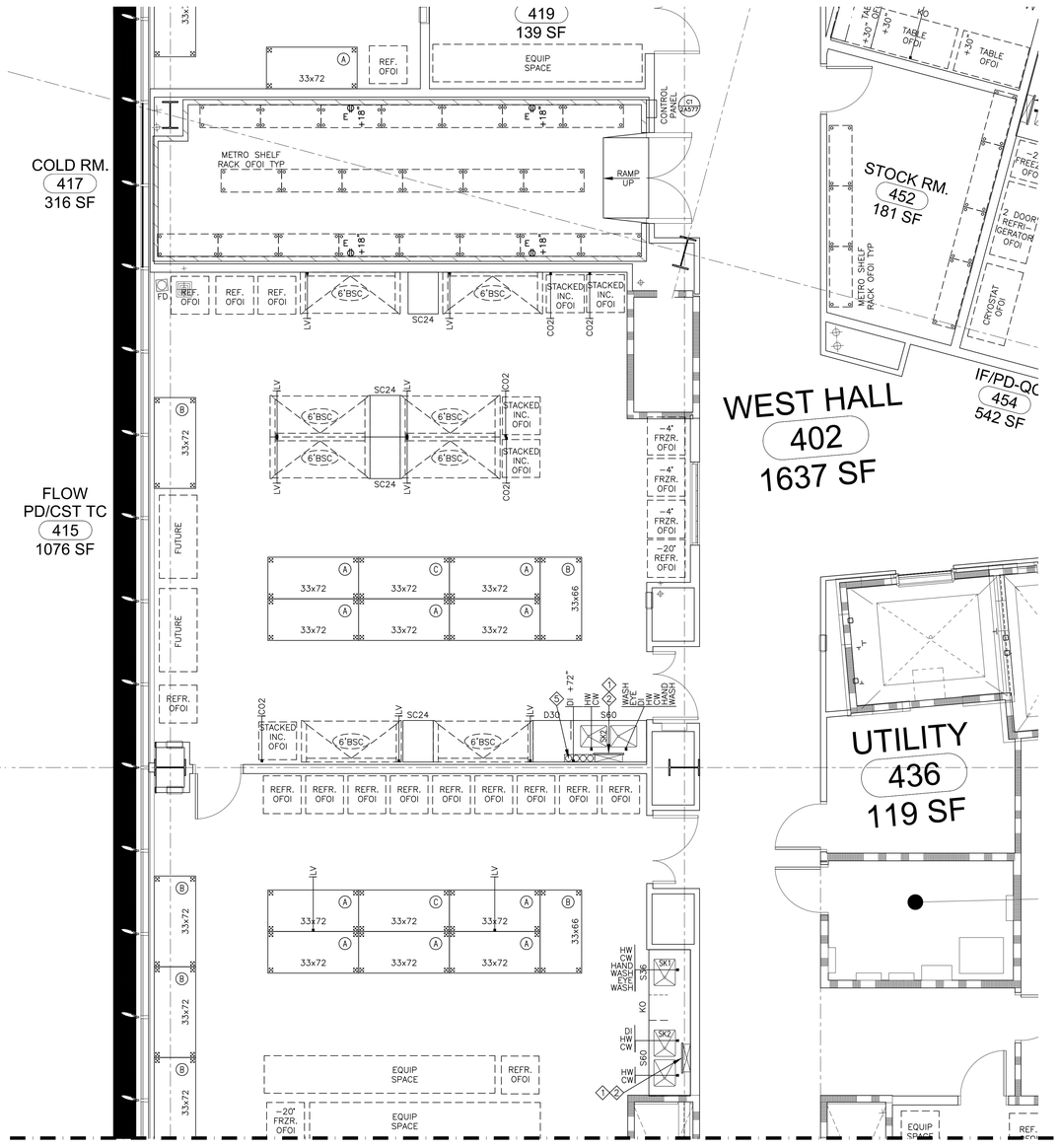
LEVEL 4
LABORATORY
FURNISHINGS
FLOOR PLAN

Sheet No.

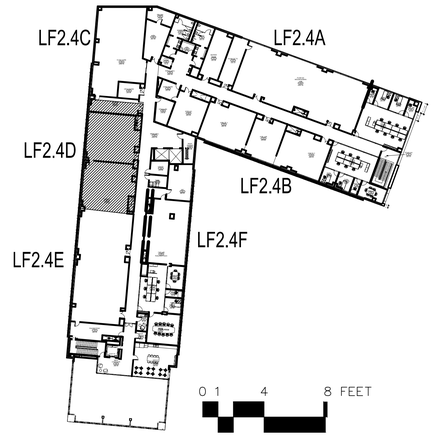
LF2.4C

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



Y2



GENE THEORY_

CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 1614E

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

LEVEL 4
LABORATORY
FURNISHINGS
FLOOR PLAN

Sheet No.

LF2.4D

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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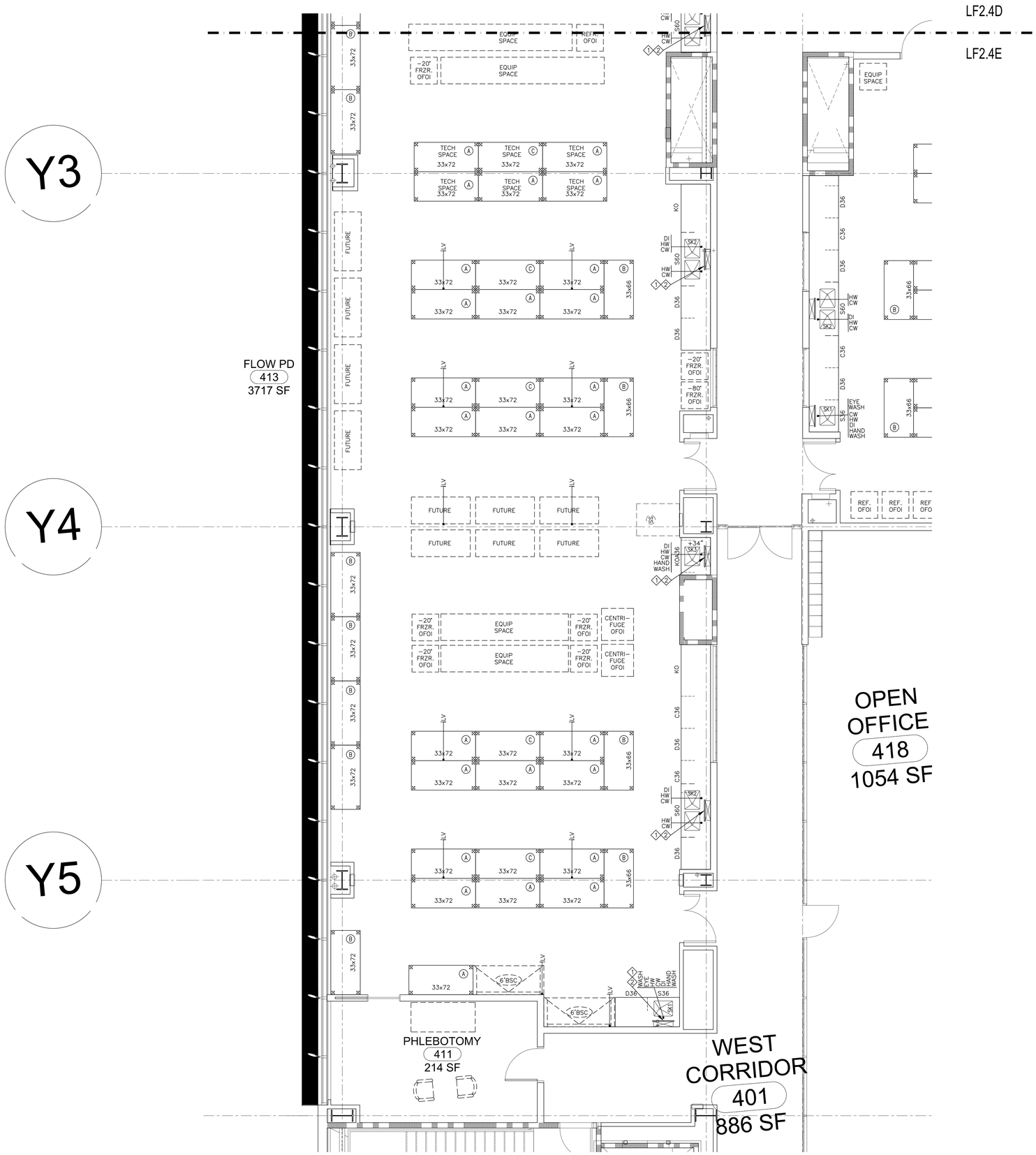

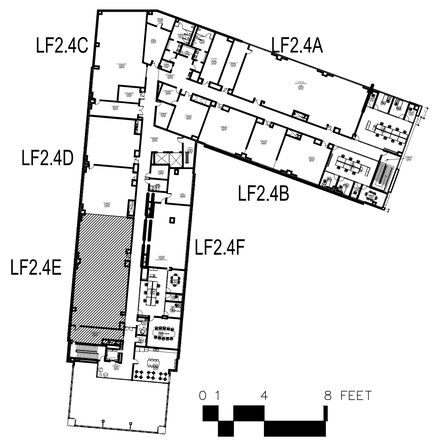

GENE THEORY_

CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 1614E

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

LEVEL 4
LABORATORY
FURNISHINGS
FLOOR PLAN

Sheet No.

LF2.4E

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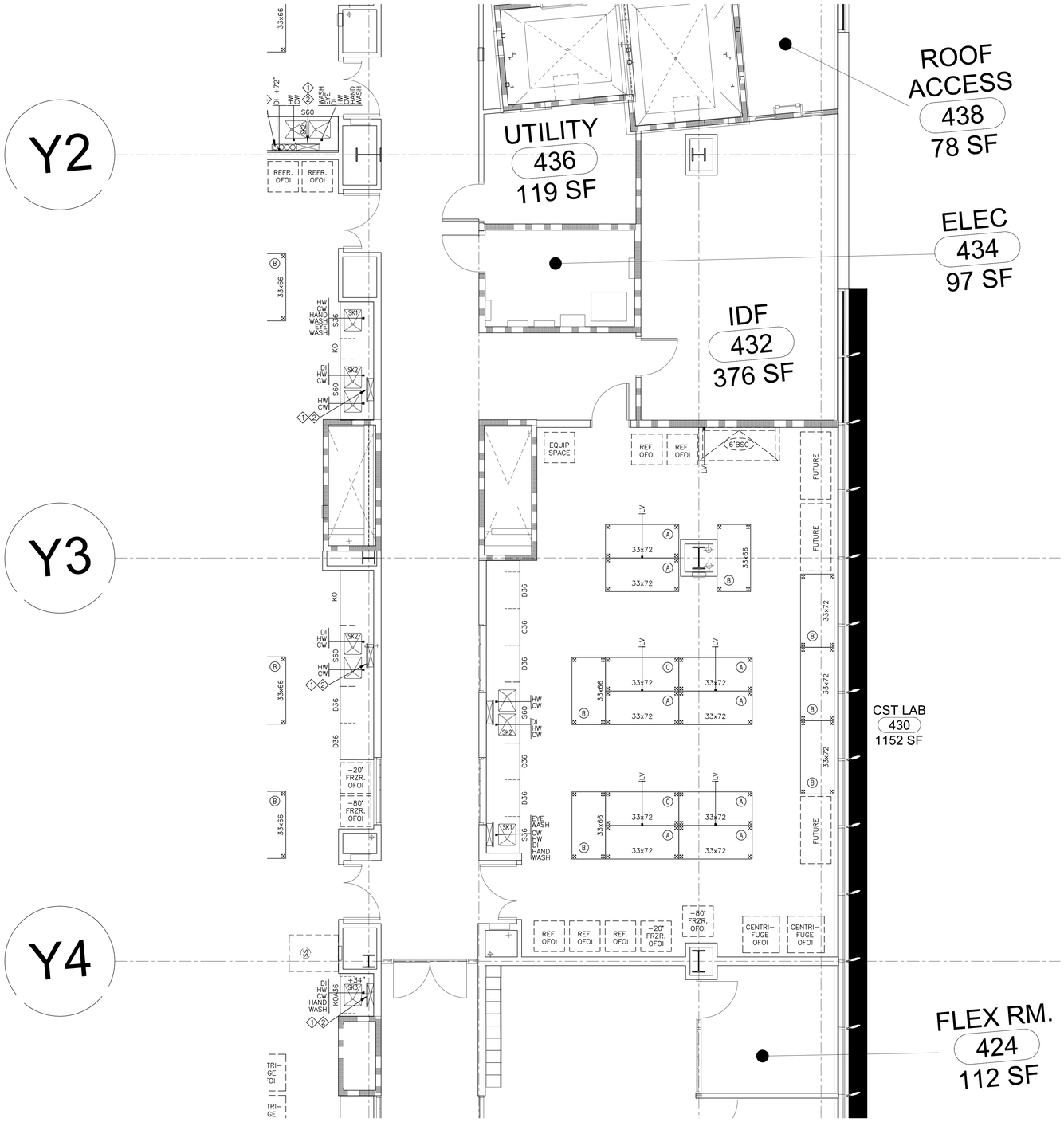
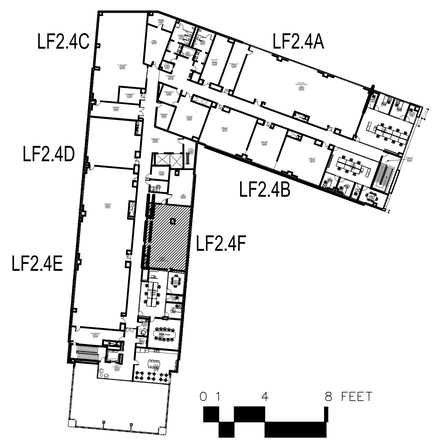




GENE THEORY_

CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 1614

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

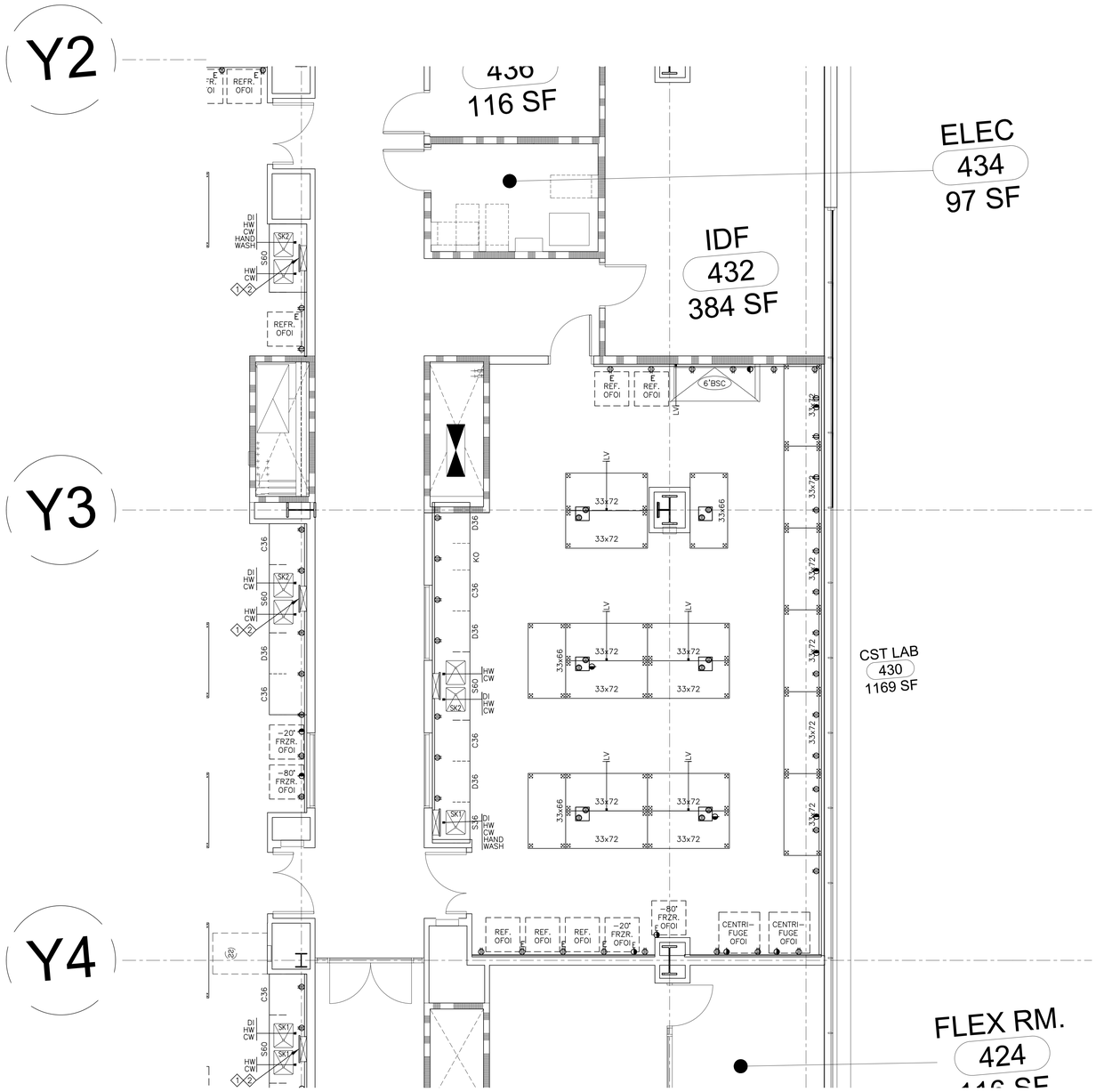
LEVEL 4 LABORATORY FURNISHINGS FLOOR PLAN

Sheet No.

LF2.4F

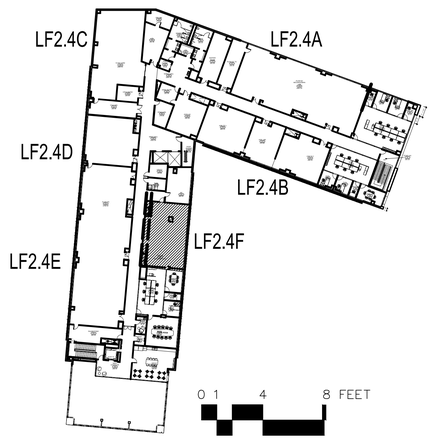
DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



LABORATORY SYMBOLS LEGEND

	DESCRIPTION
	-CHEMICAL FUME HOOD, REFER TO FLOOR PLANS FOR SIZE -REFER TO FLOOR PLANS FOR SERVICES & BASE CABINETS BENEATH
	-OFOI BIOLOGICAL SAFETY CABINET CLASS II, TYPE A-2 REFER TO FLOOR PLANS FOR SIZE -REFER TO FLOOR PLANS FOR SERVICES
33x72	-LABORATORY BENCH, REFER TO FLOOR PLANS FOR SIZE & TYPE -REFER TO LF1.2 FOR DETAILS
	FIXED LABORATORY BENCH
	METRO SHELF RACK OFOI
	MEDIUM AUTOCLAVE (ENCLOSED) 24"x24"x48" CHAMBER
	MEDIUM AUTOCLAVE (RECESSED) 24"x24"x48" CHAMBER
	LABORATORY GLASSWARE WASHER
	CAGE & BOTTLE WASHER
CS42	CORROSIVE STORAGE CABINET
SS43	SOLVENT STORAGE CABINET
VENTILATED RACK	VENTILATED RACK, OWNER FURNISHED, OWNER INSTALLED
1	UMBILICAL (PIPE DROP ENCLOSURE)
2	DRYING RACK
3	CYLINDER RESTRAINT
4	SLEEVE IN WORK SURFACE
5	LOCAL WATER POLISHER, OFOI
6	ST. STL. ENCLOSURE PANEL
7	(2) TIER ADJUSTABLE SHELVING
8	LABORATORY FUME EXTRACTOR SHOWN FOR LOCATION PURPOSES ONLY BY DIV. 23
	LABORATORY SINK REFER TO SINK SCHEDULE ON LF 1.1
	HAND WASH SINK REFER TO SINK SCHEDULE ON LF1.1
	SCULLERY SINK REFER TO FLOOR PLANS FOR SIZE
	SAFETY SHOWER / EYE WASH COMBINATION UNIT (RECESSED)
EQUIP SPACE	OWNER FURNISHED, OWNER INSTALLED EQUIPMENT
480V	EXTERNAL DISCONNECT
	208V/20A/1ϕ RECEPTACLE
E	208V/20A/1ϕ RECEPTACLE ON EMERGENCY POWER
	DUPLEX RECEPTACLE
E	DUPLEX RECEPTACLE ON EMERGENCY POWER
FD	FLOOR DRAIN, SHOWN FOR LOCATION PURPOSES ONLY BY DIV. 22
FS	FLOOR SINK, SHOWN FOR LOCATION PURPOSES ONLY BY DIV. 22
HWCW	HOT WATER COLD WATER
DI	DEIONIZED WATER
LV	LABORATORY VACUUM
CO2	CARBON DIOXIDE
A(100ϕ)	COMPRESSED AIR (100 PSIG) PROVIDE REGULATOR



0 1 4 8 FEET

SCALE: 1/4" = 1'-0"

GENE THEORY_

CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 1614

REV NO.	DATE ISSUED	REASON
	04-25-2017	DESIGN DEVELOPMENT SET

DESIGN DEVELOPMENT SET
04.25.17

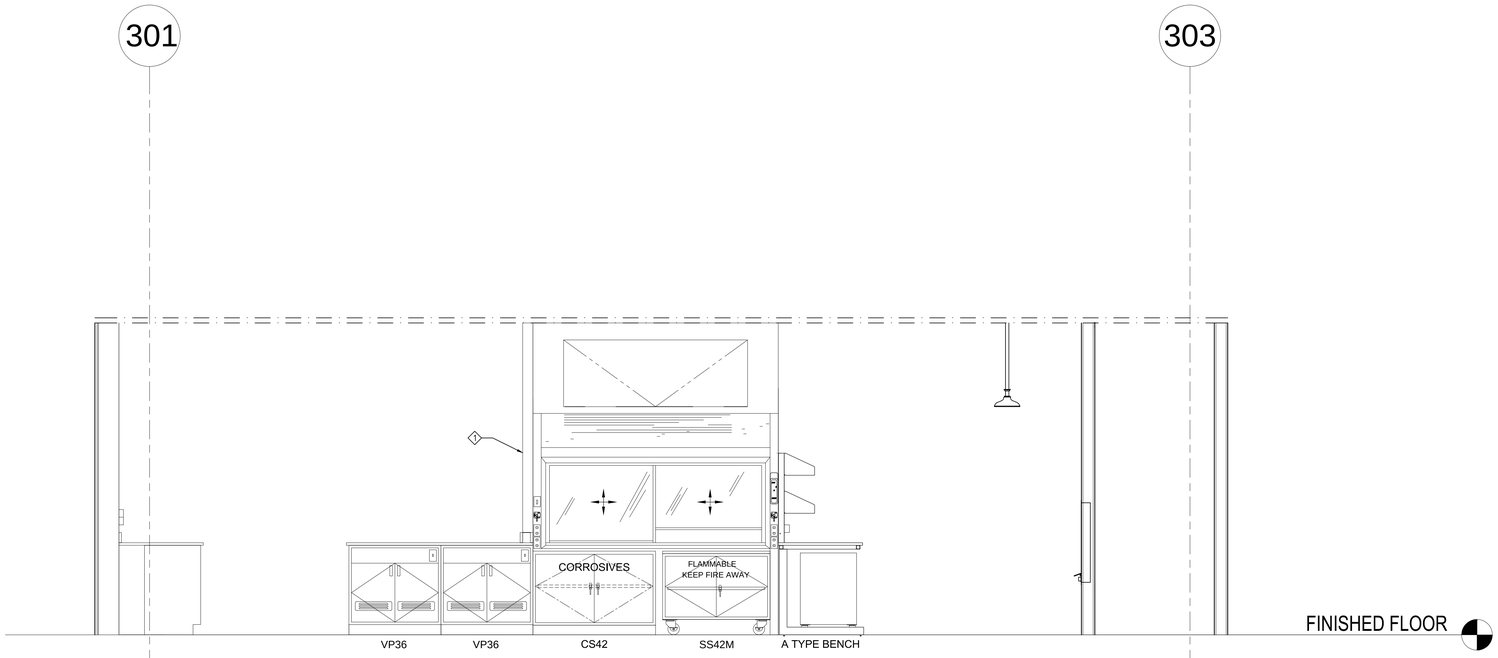
Sheet Title

LEVEL 4
LABORATORY
FURNISHINGS
FLOOR PLAN

Sheet No.

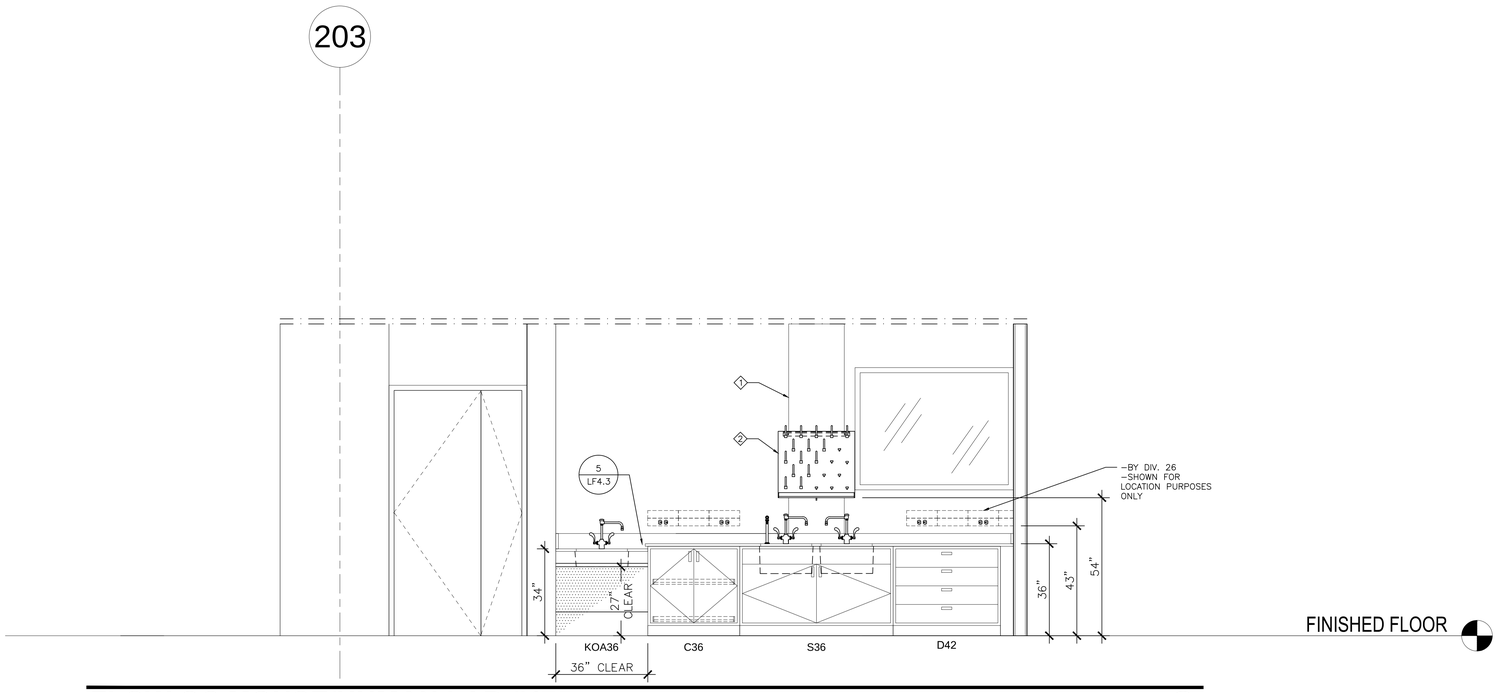
LF2.4F

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



BUFFER ROOM #219
1/2" = 1'-0"

1



FLOW QC MOUSE/HUMAN LAB #475
1/2" = 1'-0"

2

GENE THEORY _
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

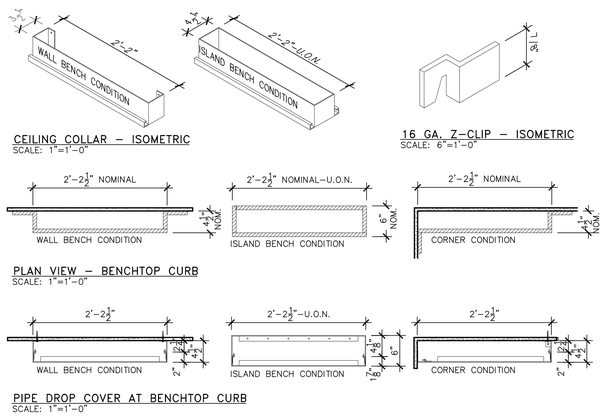
Sheet Title

LABORATORY FURNISHINGS ELEVATIONS

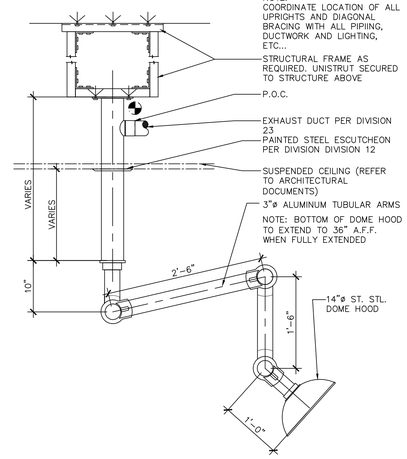
Sheet No.

LF3.1

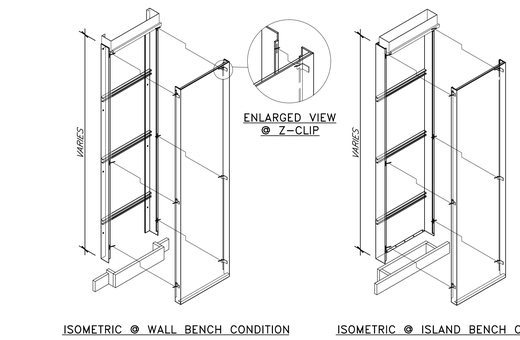
DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



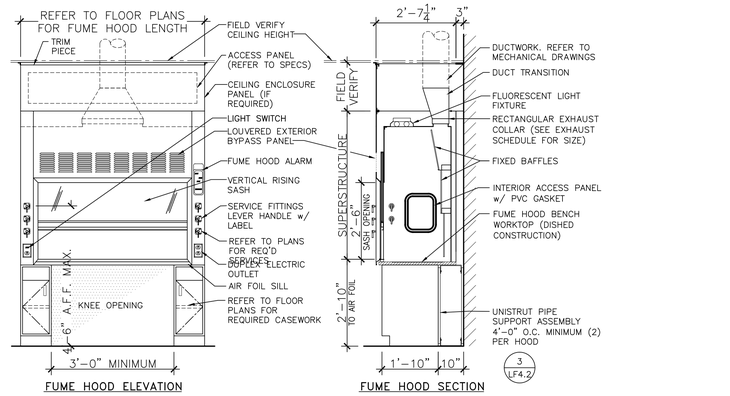
PIPE DROP ENCLOSURE DETAILS 1" = 1'-0" 6



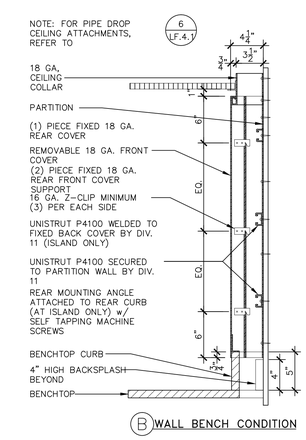
LABORATORY FUME EXTRACTOR (SNORKEL) 1" = 1'-0" 3



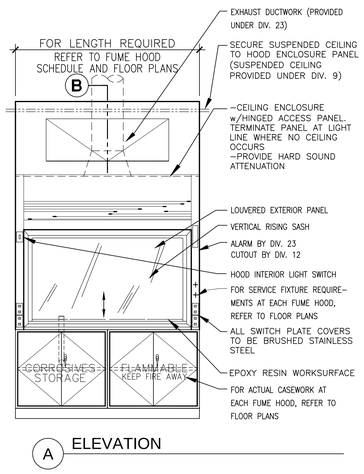
PIPE DROP ENCLOSURE ASSEMBLY 1/2" = 1'-0" 5

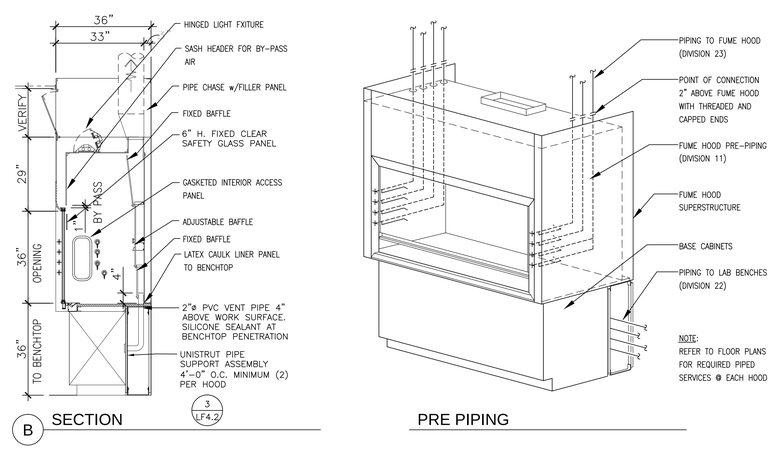


ADA CHEMICAL FUME HOOD 1/2" = 1'-0" 2



PIPE DROP ENCLOSURE SECTION 1 1/2" = 1'-0" 4





CHEMICAL FUME HOOD 1/2" = 1'-0" 1

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GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
LABORATORY FURNISHINGS DETAILS

Sheet No.
LF4.1

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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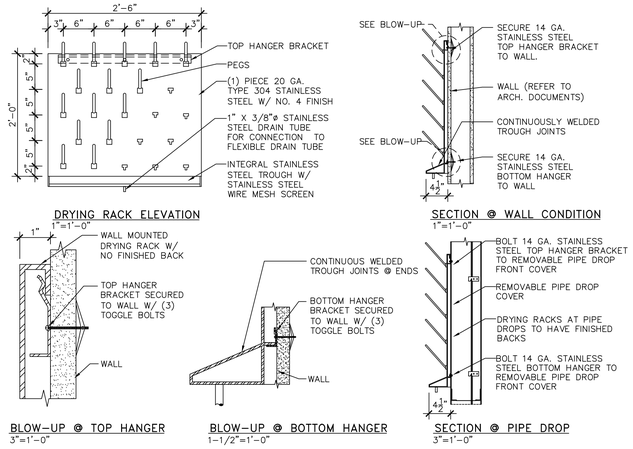
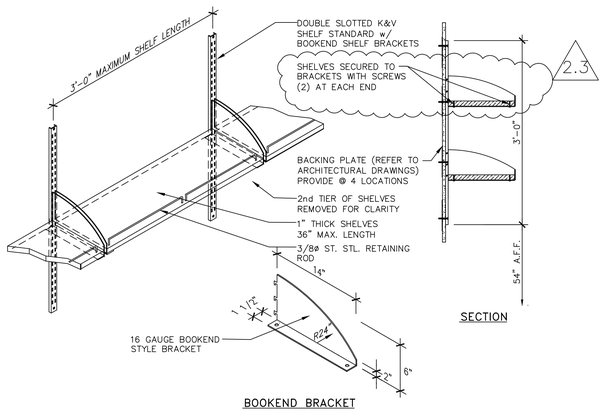


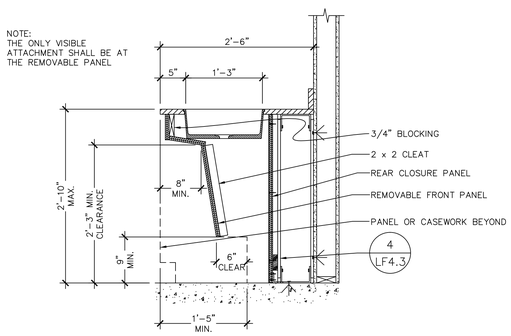
DRYING RACK

AS NOTED **6**



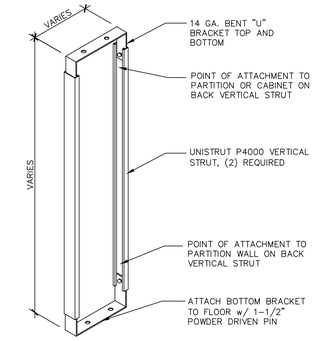
ADJUSTABLE WALL SHELVING

1" = 1'-0" **5**



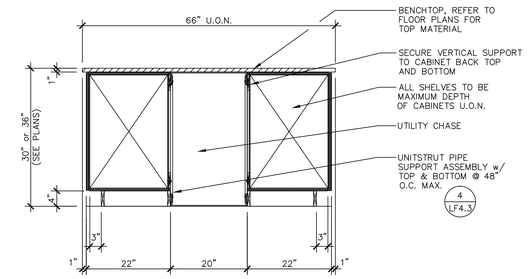
ADA SINK SECTION (KOA36)

1" = 1'-0" **4**



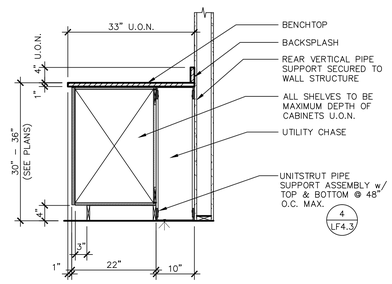
PIPE SUPPORT

1 1/2" = 1'-0" **3**



ISLAND CASEWORK

3/4" = 1'-0" **2**



WALL MOUNTED CASEWORK

3/4" = 1'-0" **1**

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

IFC 11.20.17

Sheet Title
LABORATORY FURNISHINGS DETAILS

Sheet No.
LF4.2

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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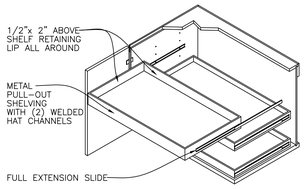

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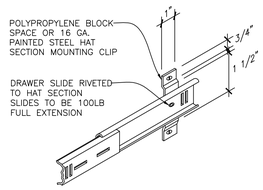
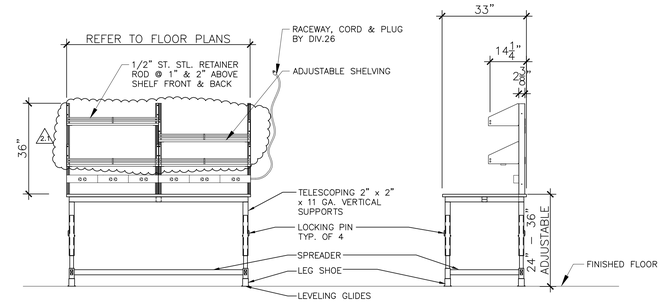


FULL EXTENSION SLIDE
3"=1'-0"

ADJUSTABLE PULL OUT SHELF

1/2" = 1'-0" **6**

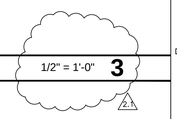


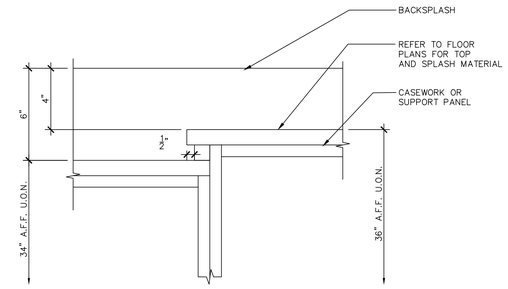
FRONT ELEVATION

SIDE ELEVATION

C TYPE BENCH

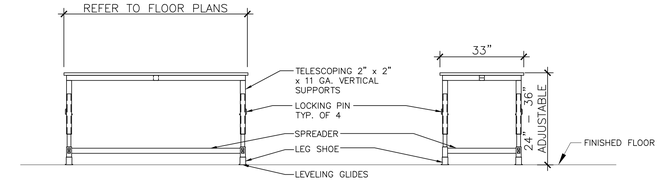
1/2" = 1'-0" **3**





ADA BENCH TRANSITION

3" = 1'-0" **5**

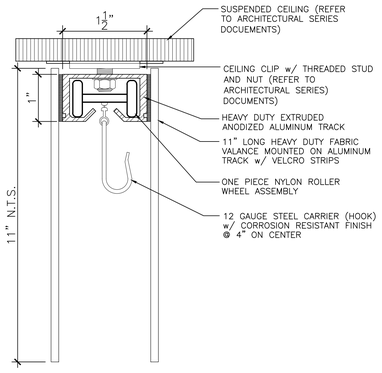


FRONT ELEVATION

SIDE ELEVATION

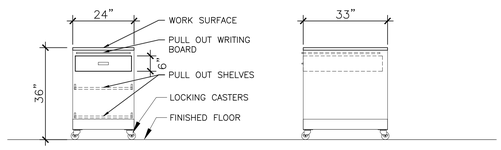
B TYPE BENCH

1/2" = 1'-0" **2**



BLACK OUT CURTIAN

1'-0" = 1'-0" **7**

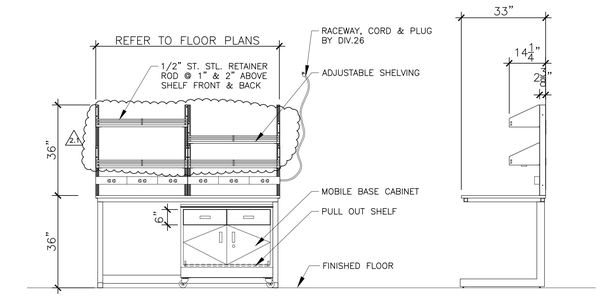


FRONT ELEVATION

SIDE ELEVATION

SUPPLY CART (SC24)

1/2" = 1'-0" **4**

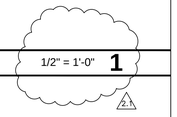


FRONT ELEVATION

SIDE ELEVATION

A TYPE BENCH

1/2" = 1'-0" **1**



GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

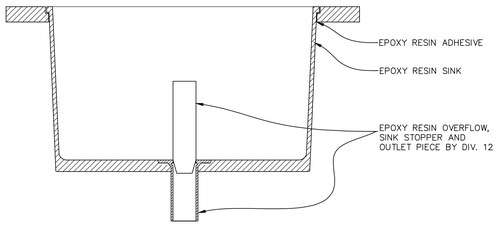
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

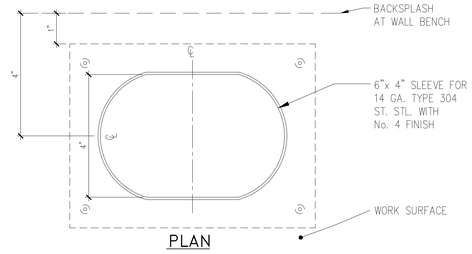
Sheet Title
LABORATORY FURNISHINGS DETAILS

Sheet No.
LF4.3

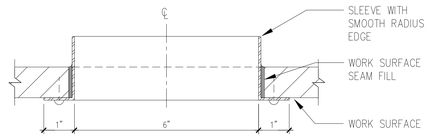
DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001



DROP IN SINK 3" = 1'-0" 5

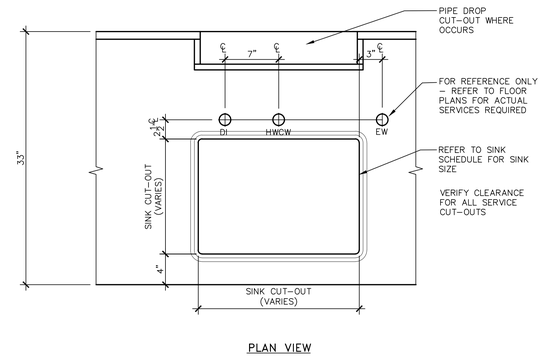


PLAN



SECTION

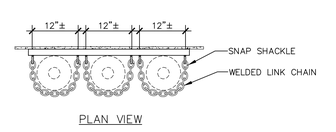
BENCH TOP SLEEVE 6" = 1'-0" 3



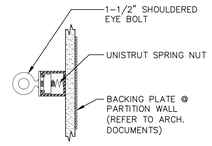
PLAN VIEW

FIXTURE SPACING AT SINKS 1-1/2"=1'-0"

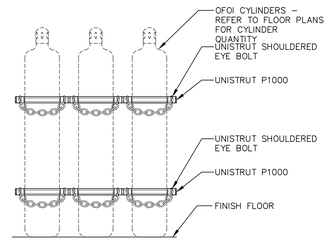
FIXTURE SPACING 11/2" = 1'-0" 4



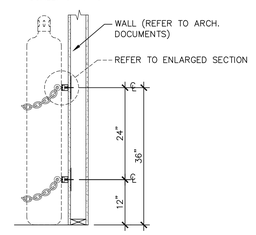
PLAN VIEW



ENHANCED SECTION
SCALE: 3"=1'-0"

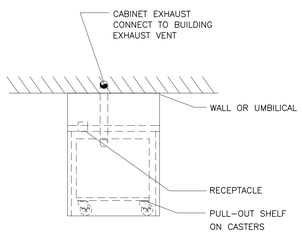


ELEVATION

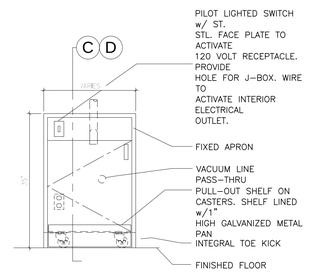


SECTION

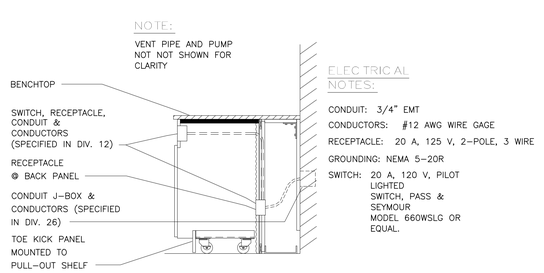
CYLINDER RESTRAINT 3/4" = 1'-0" 2



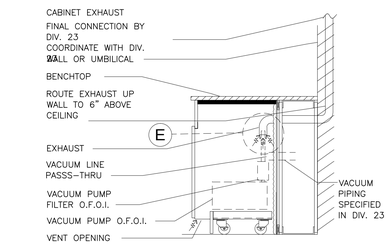
A PLAN
N.T.S VACUUM PUMP CABINET DETAIL



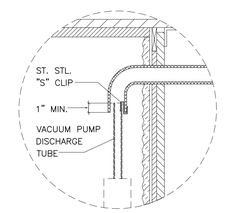
B FRONT ELEVATION
N.T.S VACUUM PUMP CABINET DETAIL



C SECTION - ELECTRICAL
N.T.S VACUUM PUMP CABINET DETAIL



D SECTION - EXHAUST
N.T.S VACUUM PUMP CABINET DETAIL



E DETAIL
N.T.S. VACUUM PUMP CABINET DETAIL

VACUUM PUMP CABINET N.T.S. 1

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

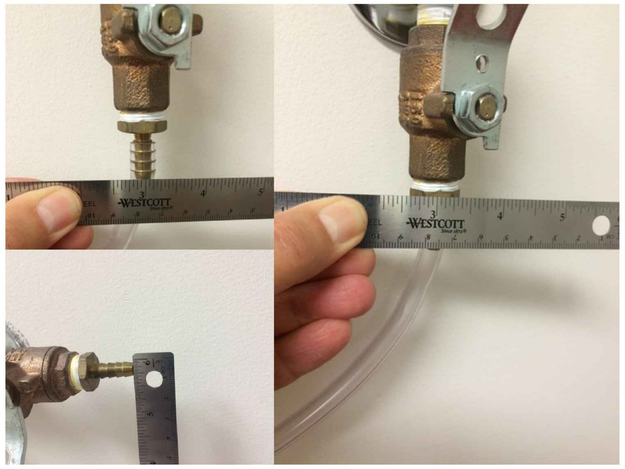
CITY SUBMITTAL SET
08.08.17

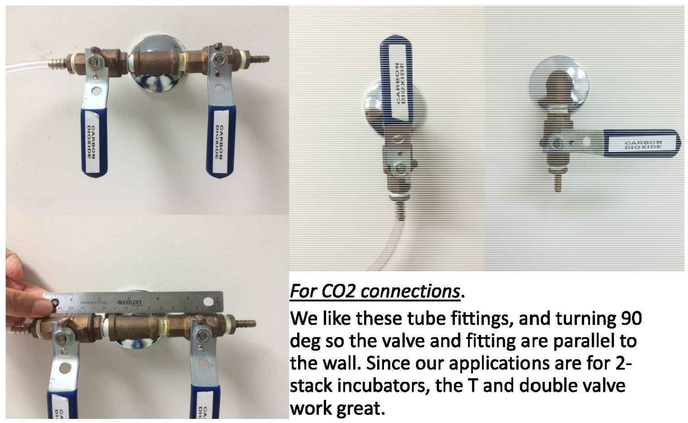
Sheet Title
LABORATORY FURNISHINGS DETAILS

Sheet No.
LF4.4

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.





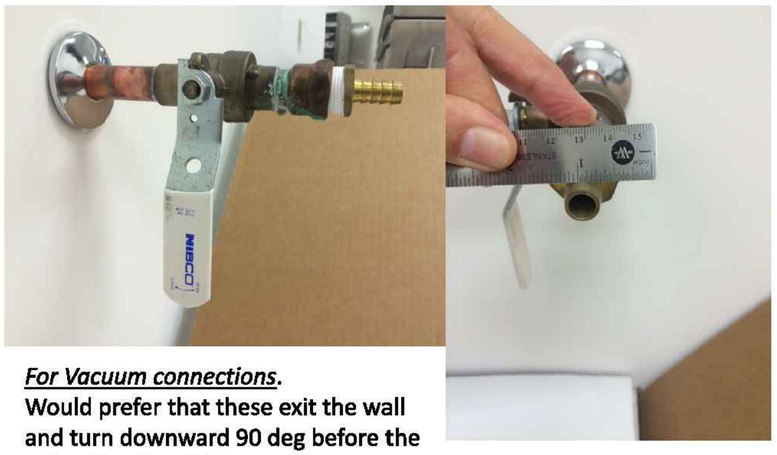
For CO2 connections.

We like these tube fittings, and turning 90 deg so the valve and fitting are parallel to the wall. Since our applications are for 2-stack incubators, the T and double valve work great.

Piping size is 3/8" NPS.

Barbed tube connector fits ¼" ID tubing.





For Vacuum connections.

Would prefer that these exit the wall and turn downward 90 deg before the valve, like the CO2 images.

Piping size is ¾" NPS.

Barbed tube connector fits ½" ID tubing.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

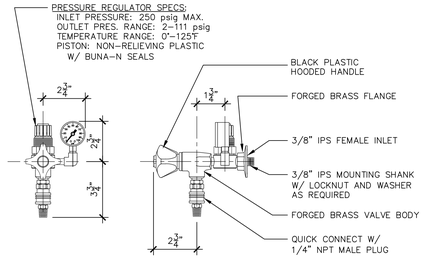
Sheet Title

LABORATORY FURNISHINGS FITTINGS & FIXTURES

Sheet No.

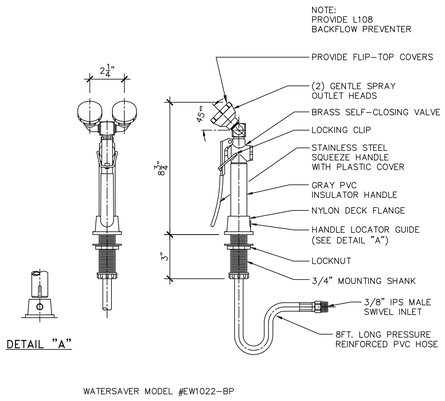
LF5.1

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



A(100#) COMPRESSED AIR

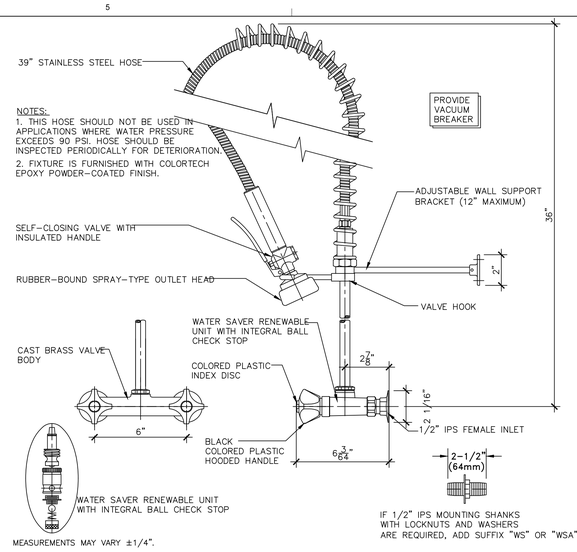
3" = 1'-0" **9**



WATERSAVER MODEL #EW1022–BP

EYE WASH / DRENCH HOSE

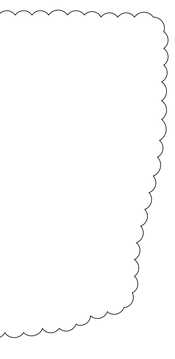
3" = 1'-0" **6**



MEASUREMENTS MAY VARY ±1/4".

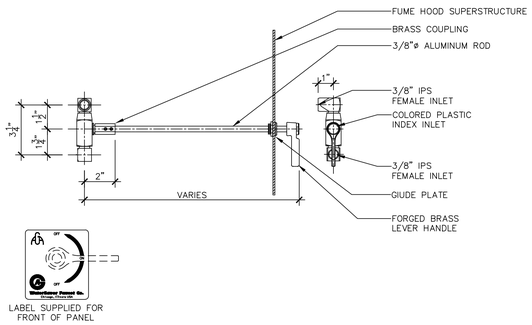
HOT WATER COLD WATER MIXING VALVE PRE RINSE

3" = 1'-0" **3**



DI (DEIONIZED WATER)

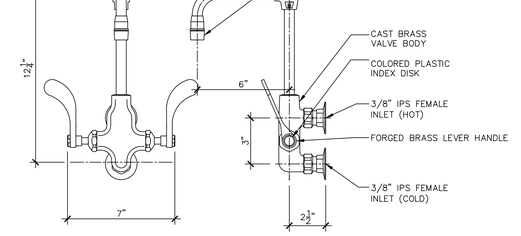
3" = 1'-0" **8**



LABEL SUPPLIED FOR FRONT OF PANEL

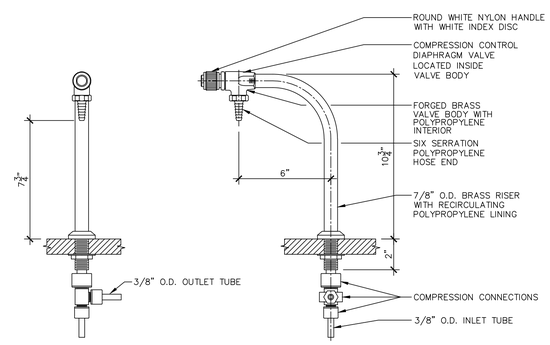
LV ADA (LABORATORY VACUUM)

3" = 1'-0" **5**



HOT WATER COLD WATER MIXING VALVE

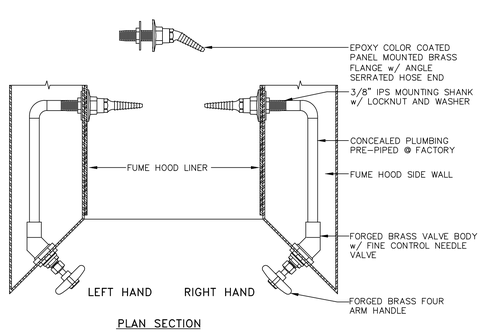
3" = 1'-0" **2**



NOTES:
1. FIXTURE HAS FULLY RECIRCULATING CONFIGURATION
2. MAXIMUM WORKING PRESSURE IS 50 PSI.
3. ALL COMPONENTS IN CONTACT WITH PURE WATER ARE POLYPROPYLENE

DI (DEIONIZED WATER)

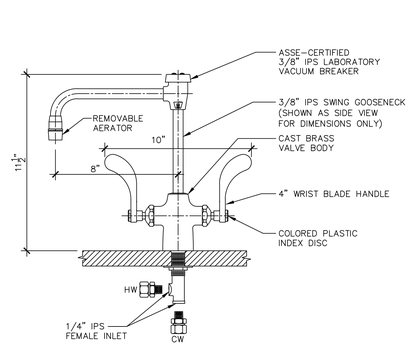
3" = 1'-0" **7**



PLAN SECTION

LV (LABORATORY VACUUM)

3" = 1'-0" **4**



HOT WATER COLD WATER MIXING VALVE

3" = 1'-0" **1**

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

CITY SUBMITTAL SET
08.08.17

Sheet Title
LABORATORY FURNISHINGS FITTINGS & FIXTURES

Sheet No.
LF5.2

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

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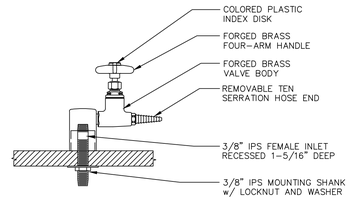
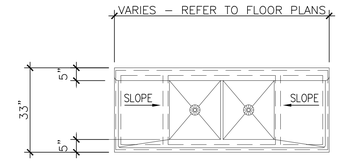
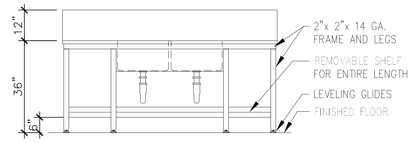


LV (LABORATORY VACUUM) 3" = 1'-0" 3



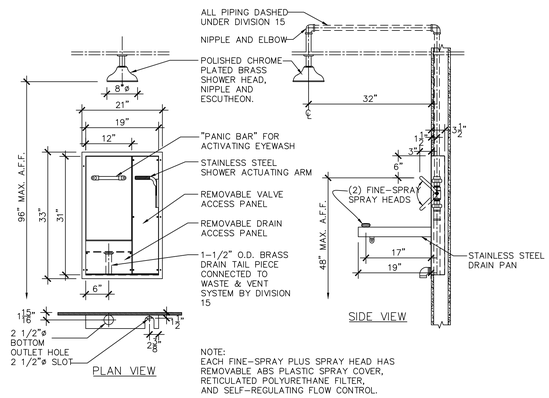
A PLAN



B ELEVATION

NOTES:
1. ALL SHEET METAL TO BE 14 GA. TYPE 304 ST. STL.
2. ALL FRAME AND LEG MEMBERS TO BE 2" SQUARE ST. STL. TYPE 304 14 GA. WITH WELDED CONNECTIONS
3. APPLY SOUND DEADENING MATERIAL TO UNDERSIDE OF SINK BASINS, TOP AND BACKSPLASHES
4. REFER TO FLOOR PLANS FOR BOWL QUANTITY, BOWL SIZE & NUMBER OF FIXTURES

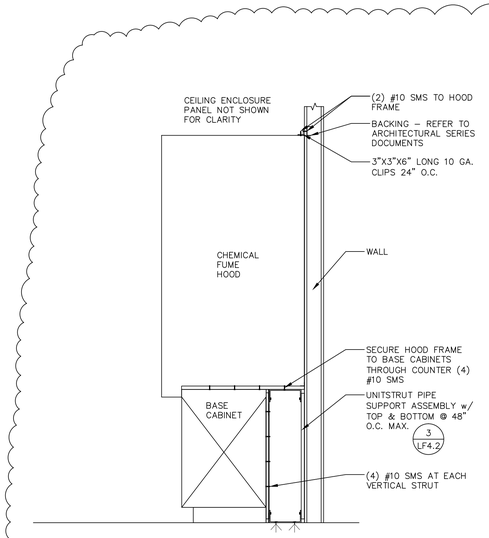
SCULLERY SINK 1/2"" = 1'-0" 2



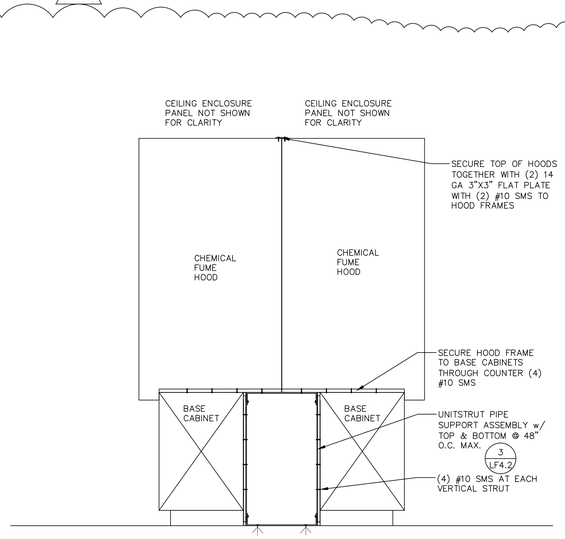
NOTE:
EACH FINE–SPRAY PLUS SPRAY HEAD HAS REMOVABLE ABS PLASTIC SPRAY COVER, RETICULATED POLYURETHANE FILTER, AND SELF–REGULATING FLOW CONTROL.

SAFETY SHOWER EYE WASH COMBINATION UNIT 3/4" = 1'-0" 1

2.3



SECTION



SECTION - ISLAND CONDITION

CHEMICAL FUME HOOD ANCHORAGE DETAILS N.T.S. 4

GENE THEORY - CP-2
VOLUME 2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1
2.2	10.03.17	ADDENDUM 2.2
2.3	11.20.17	ASI 2.1/IFC

IFC 11.20.17

Sheet Title
LABORATORY FURNISHINGS FITTINGS & FIXTURES

Sheet No.
LF5.3

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002



FOR REFERENCE ONLY

LEGEND

- SDG&E 3427 TRANSFORMER (8'-2"X7'X8")
- SDG&E 3425 TRANSFORMER (6'-6"X4'X11")
- SDG&E 3315 HANDHOLE (7'-6"X5'X0")
- SDG&E 3314 HANDHOLE (6'-8"X3'X8")
- ELECTRIC METER ROOM
- GAS METER
- EXISTING COMMUNICATION
- COMMUNICATION
- GAS MAIN
- EXISTING GAS
- EXISTING L3 FIBER
- L3 FIBER
- PROPOSED ELECTRIC
- EXISTING ELECTRIC

48 HOURS BEFORE YOU DIG
CALL
UNDERGROUND SERVICE ALERT
1-800-227-2600

NOT FOR CONSTRUCTION
FOR BID PURPOSES ONLY

0 15 30 60 90
SCALE: 1" = 30'

REVISIONS

Dry Utilities Exhibit
SDG&E, AT&T, L3

DATE: 8-4-17
SHEET: 1 OF 1
DESIGN BY: SLS
DRAWN BY: JYM
PROJECT # DLW036

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

TECHNOLOGY

SHEET INDEX

GENERAL

T-000 TECHNOLOGY TITLE SHEET

INFRASTRUCTURE PLANS

TN-100 CAMPUS SITE PLAN
TN-211 CP1 1ST FLOOR OVERALL SIGNAL PLAN
TN-212 CP1 2ND FLOOR OVERALL SIGNAL PLAN
TN-221 CP2 1ST FLOOR OVERALL SIGNAL PLAN
TN-222 CP2 2ND FLOOR OVERALL SIGNAL PLAN
TN-223 CP2 3RD FLOOR OVERALL SIGNAL PLAN
TN-224 CP2 4TH FLOOR OVERALL SIGNAL PLAN
TN-231 PARKING 1ST FLOOR OVERALL SIGNAL PLAN
TN-232 PARKING 2ND FLOOR OVERALL SIGNAL PLAN
TN-233 PARKING 3RD FLOOR OVERALL SIGNAL PLAN
TN-234 PARKING 4TH FLOOR OVERALL SIGNAL PLAN
TN-235 PARKING 5TH FLOOR OVERALL SIGNAL PLAN
TN-236 PARKING 6TH FLOOR OVERALL SIGNAL PLAN
TN-237 PARKING 7TH FLOOR OVERALL SIGNAL PLAN
TN-238 PARKING 8TH FLOOR OVERALL SIGNAL PLAN
TN-311 CP1 ENLARGED 1ST FLOOR IDF ROOM
TN-312 CP1 ENLARGED 2ND FLOOR IDF ROOM
TN-321 CP2 ENLARGED 1ST FLOOR IDF ROOM
TN-322 CP2 ENLARGED 2ND FLOOR IDF ROOM
TN-323 CP2 ENLARGED 3RD FLOOR MDF ROOM
TN-324 CP2 ENLARGED 4TH FLOOR IDF ROOM
TN-600 FACEPLATE DETAILS
TN-700 MOUNTING DETAILS

SECURITY PLANS

TY-211 CP1 1ST FLOOR SECURITY PLAN
TY-212 CP1 2ND FLOOR SECURITY PLAN
TY-221 CP2 1ST FLOOR SECURITY PLAN
TY-222 CP2 2ND FLOOR SECURITY PLAN
TY-223 CP2 3RD FLOOR SECURITY PLAN
TY-224 CP2 4TH FLOOR SECURITY PLAN
TY-231 PARKING 1ST FLOOR SECURITY PLAN
TY-232 PARKING 2ND FLOOR SECURITY PLAN
TY-233 PARKING 3RD FLOOR SECURITY PLAN
TY-234 PARKING 4TH FLOOR SECURITY PLAN
TY-235 PARKING 5TH FLOOR SECURITY PLAN
TY-236 PARKING 6TH FLOOR SECURITY PLAN
TY-237 PARKING 7TH FLOOR SECURITY PLAN
TY-238 PARKING 8TH FLOOR SECURITY PLAN
TY-700 MOUNTING DETAILS

GENERAL NOTES

1. THESE PLANS ARE TO BE USED IN ADDITION TO THE ARCHITECTURAL AND ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR FINAL WALL TYPES AND ORIENTATION, ALSO REFER TO THE ELECTRICAL DRAWINGS FOR FINAL POWER RECEPTACLE LOCATIONS.
2. PROVIDE AND INSTALL CATEGORY 6, PLENUM RATED, CABLE ORIGINATING FROM THE DESIGNATED SERVER ROOM AS SHOWN ON THE DRAWINGS.
3. ALL CABLES WILL BE INSTALLED IN ACCORDANCE WITH CURRENT ANSI/TIA/EIA AND BICSI STANDARDS. CABLES WILL ALSO BE INSTALLED IN COMPLIANCE WITH THE CABLE MANUFACTURER'S INSTALLATION RECOMMENDATIONS INCLUDING PULLING TENSION AND CABLE BEND RADIUS.
4. CABLES WILL BE RUN IN THE MOST DIRECT AVAILABLE PATHWAY IN NON-SPLICED SEGMENTS, WITH NO SINGLE RUN EXCEEDING 295 FEET IN LENGTH.
5. EACH CABLE WILL HAVE A 10 FOOT SERVICE LOOP AT THE TR AND A 1 FOOT SERVICE LOOP AT THE WORKSTATION UNLESS OTHERWISE SPECIFIED.
6. CABLES WILL BE RUN IN THE ABOVE-CEILING SPACE AND WILL BE SUSPENDED INDEPENDENTLY FROM OTHER BUILDING SYSTEMS VIA PROVIDED CABLE TRAY PATHWAY AND/OR J-HOOK PATHWAY PROVIDED BY SCC.
7. ADEQUATE DISTANCE ABOVE THE CEILING GRID AND AWAY FROM ELECTRICAL, MECHANICAL, AND PLUMBING SYSTEMS WILL BE MAINTAINED.
8. WALL MOUNTED LOCATIONS WILL BE MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
9. EC TO PROVIDE A SINGLE GANG RING AND STRING FOR EVERY WALL LOCATION UNLESS OTHERWISE NOTED.
10. CABLES WILL BE ROUTED FROM THE ABOVE-CEILING SPACE TO THE WORKSTATION IN PROVIDED CONDUIT PATHWAY. COORDINATE CONDUIT REQUIREMENTS PRIOR TO INSTALLATION. RING AND STRING WITHOUT A CONDUIT FROM THE ABOVE CEILING SPACE TO HARD WALL LOCATIONS WILL BE ACCEPTABLE PROVIDED THE PULL STRING PULLS FREELY AND DOES NOT CROSS ANY STUD EXCEPT A PRE-PENETRATED TOP CAP STUD WITH PROTECTIVE GROMMET.
11. PROVIDE FIRE SEALANT AT ALL FIRE PENETRATIONS.
12. EC TO PROVIDE GROUNDING BUSBARS IN ALL TELECOM ROOM. EACH TELECOM BUSBAR SHALL BE CONNECTED TO THE MAIN BUILDING GROUND. STRUCTURED CABLING CONTRACTOR TO MAKE FINAL GROUND CONNECTION FROM TELECOM BUSBAR TO EQUIPMENT.
13. ALL GANG MUD-RINGS PROVIDED BY EC FOR AUDIO/VISUAL INFRASTRUCTURE ARE REQUIRED TO HAVE SHARP CORNERS. NO MUD-RINGS WITH ROUNDED CORNERS WILL BE AUTHORIZED.

TECHNOLOGY SYMBOL LIST

SYMBOL	DESCRIPTION	CABLES	JACK COLORS	FACEPLATE	MOUNTING AFF (UON)	INFRASTRUCTURE PROVIDED BY OTHERS	COMMENTS
WP	WALL PHONE LOCATION	(2) BLUE CAT6 CABLES	(2) WHITE	2-PORT FACEPLATE	48"	1-GANG RING AND STRING 1-GANG RING AND STRING	
TM	TEMPERATURE MONITOR SENSOR	(1) WHITE 22/4 WIRE	(1) WHITE	1-PORT FACEPLATE	WIREMOLD	1-GANG RING AND STRING	
X	2 CABLE WALL LOCATION	(X) BLUE CAT6 CABLES	(2) WHITE	2-PORT FACEPLATE	18"	1-GANG RING AND STRING	
X	2 CABLE FLOOR LOCATION	(X) BLUE CAT6 CABLES	(2) WHITE (2) BLANK	4-PORT 106 ADAPTER	FLOOR	ELEC/DATA FLOOR BOX WITH 1-1/4" CO. TO AAC	
X	2 CABLE FURNITURE LOCATION	(X) BLUE CAT6 CABLES	(2) WHITE (2) BLANK	4-PORT FURN PLATE	KICK PLATE	1-1/4" FURNITURE FEED OR POWER POLE	FEED LOCATIONS SHOULD BE LOCATED ON IDF SIDE
	WIRELESS ACCESS POINT	(1) BLUE CAT6 CABLE	(1) WHITE	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	COILED ADDITIONAL 20' SERVICE LOOP
X	COILED CABLES	(X) BLUE CAT6 CABLE	(1) WHITE	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	COILED ADDITIONAL 20' SERVICE LOOP
EP / EP	ANALOG LINE	(1) BLUE CAT6 CABLE	(1) WHITE	1-PORT FACEPLATE WITH MOUNT LUGS	48"	1-GANG RING AND STRING	
	IP CAMERA	(1) BLUE CAT6 CABLE	(1) WHITE (1) BLANK	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	INFRASTRUCTURE ONLY NEEDED IF LOCATED IN INACCESSIBLE AREA
	EXISTING IP CAMERA	(1) BLUE CAT6 CABLE	(1) WHITE (1) BLANK	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	INFRASTRUCTURE ONLY NEEDED IF LOCATED IN INACCESSIBLE AREA
CR	CARD READER	(1) COMPOSITE CABLE			46"	1" CONDUIT TO AAC	SEE DETAIL SHEETS FOR MORE INFORMATION
C	CONTACT	(1) 22/4 WIRE			ABOVE OPENING	AS REQUIRED	

ABBREVIATIONS

AAC - ABOVE ACCESSIBLE CEILING
AFF - ABOVE FINISHED FLOOR
AVC - AUDIO VISUAL CONTRACTOR
CL - CENTER LINE
DIA - DIAMETER
DIM - DIMENSION
DR - DOOR
(E) - EXISTING
EC - ELECTRICAL CONTRACTOR
E.C. - EMPTY CONDUIT
EL - ELEVATION
ELEC - ELECTRICAL
EQ - EQUAL
FL - FLOOR LEVEL
FUT - FUTURE
GC - GENERAL CONTRACTOR
MISC - MISCELLANEOUS
NIC - NOT IN CONTRACT
NTS - NOT TO SCALE
OC - ON CENTER
OD - OUTER DIAMETER
OFCI - OWNER FURNISHED, CONTRACTOR INSTALLED
OFE - OWNER FURNISHED EQUIPMENT
OFOI - OWNER FURNISHED, OWNER INSTALLED
RCP - REFLECTED CEILING PLAN
SCC - STRUCTURED CABLING CONTRACTOR
SECT - SECTION
TBD - TO BE DETERMINED
TYP - TYPICAL
UON - UNLESS OTHERWISE NOTED
VIF - VERIFY IN FIELD

VICINITY MAP

7/26/2017 4:14:23 PM
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BI GENE THEORY
CP-2

TERMINAL ANNEX
SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

TITLE SHEET

Sheet No.

2T-000

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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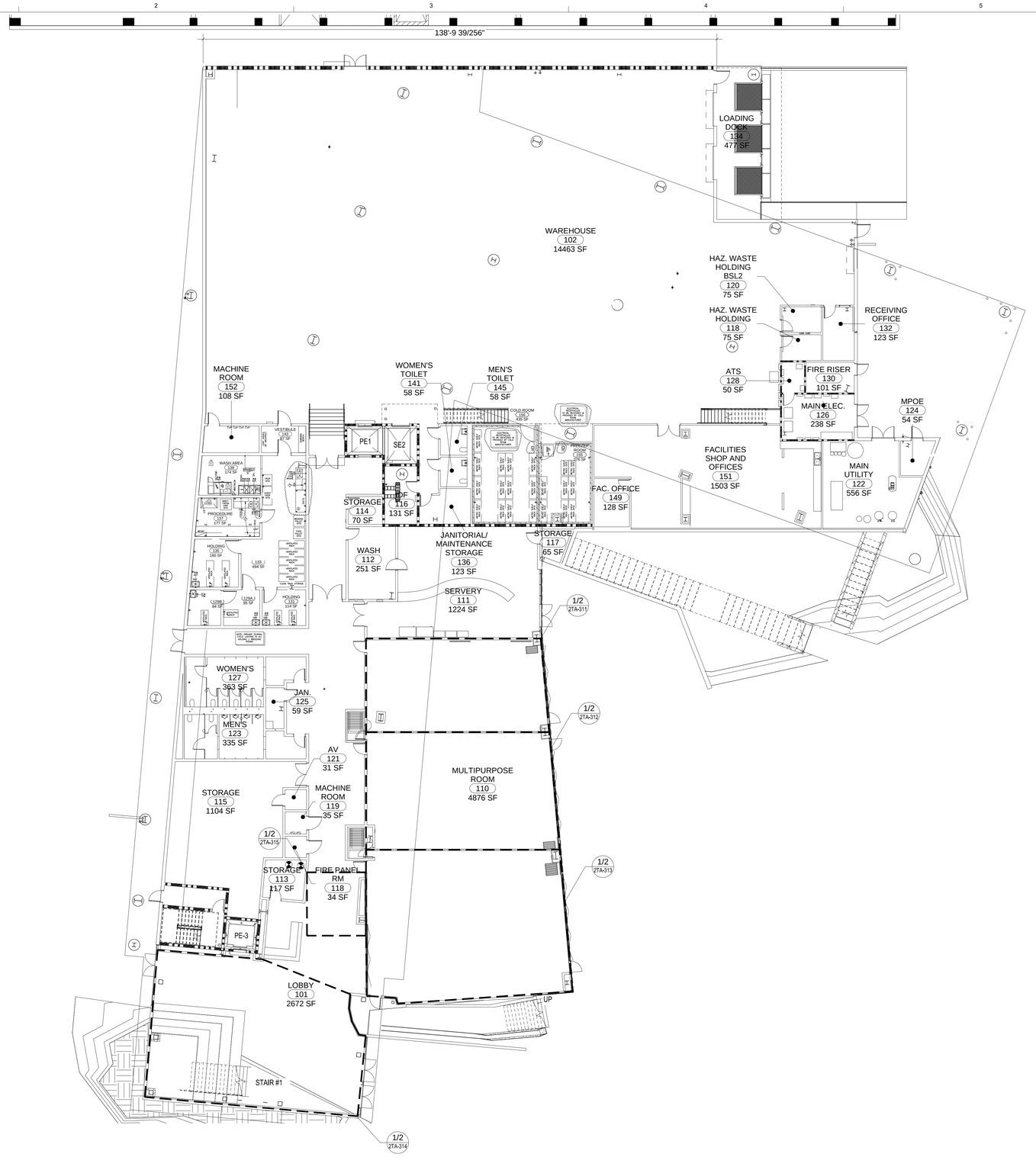

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

BI GENE THEORY
CP-2

TERM 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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CITY SUBMITTAL SET
08.08.17

Sheet Title

1ST FLOOR OVERALL AV PLAN

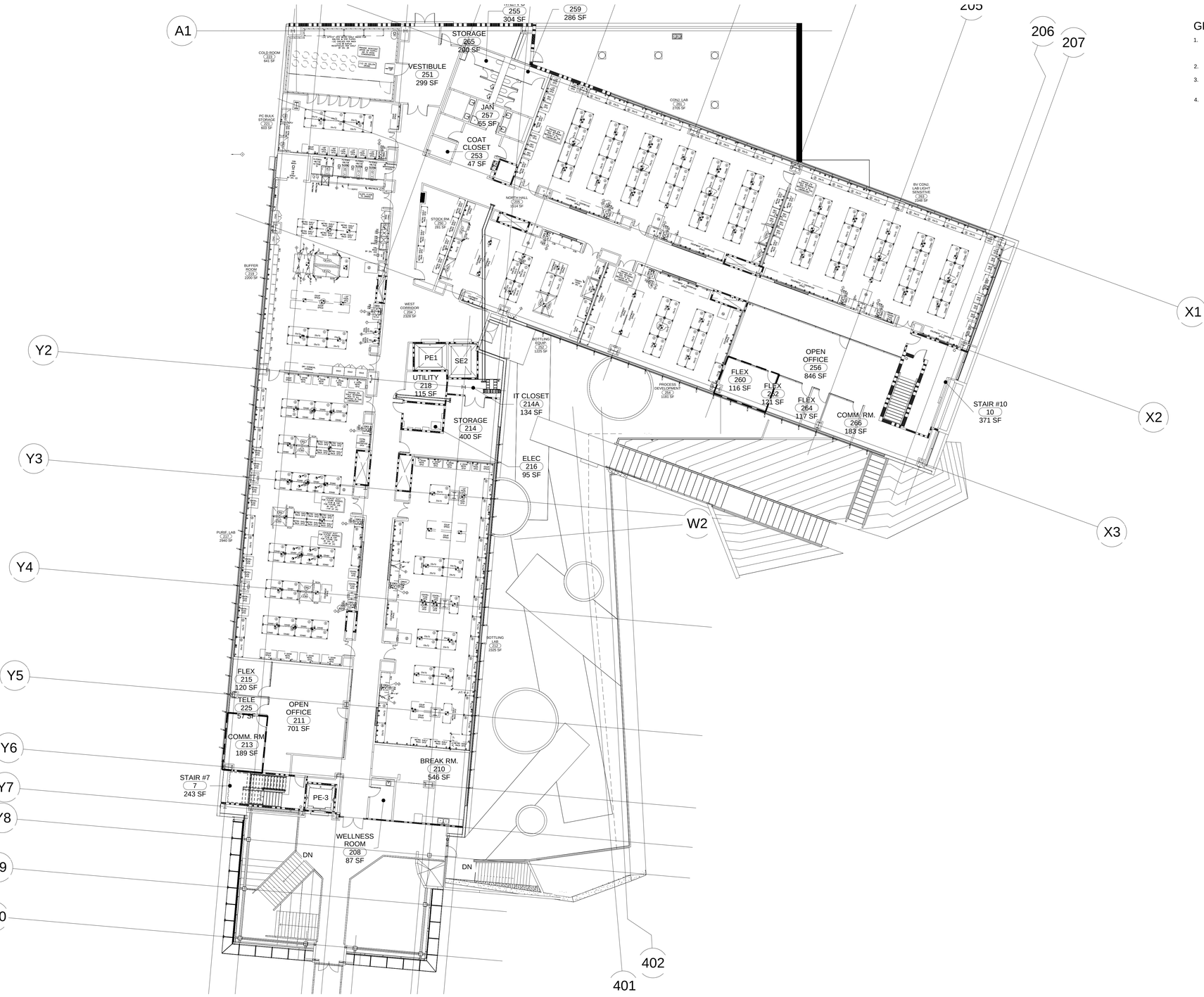
Sheet No.
2TA-210

CP2 1ST FLOOR OVERALL
AUDIO VISUAL PLAN

SCALE: 10' 20'

1

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



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BI GENE THEORY
CP-2

TERM
SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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REV NO.	DATE ISSUED	REASON
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CITY SUBMITTAL SET
08.08.17

Sheet Title

2ND FLOOR
OVERALL
AV PLAN

Sheet No.

2TA-220

CP2 2ND FLOOR OVERALL
AUDIO VISUAL PLAN

SCALE: 10' 20'

1

7/26/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



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CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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CITY SUBMITTAL SET
08.08.17

Sheet Title
3RD FLOOR OVERALL AV PLAN

CP2 3RD FLOOR OVERALL
AUDIO VISUAL PLAN

SCALE: 10' 20'

1

Sheet No.
2TA-230

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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Link to Sheet Index - 2G-002



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CP2 4TH FLOOR OVERALL AUDIO VISUAL PLAN

SCALE: 10' 20'

1

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CP-2

TERMINUS QUARTER
SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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CITY SUBMITTAL SET
08.08.17

Sheet Title
4TH FLOOR OVERALL AV PLAN

Sheet No.
2TA-240

DPR Issued Sheet 2017-08-08
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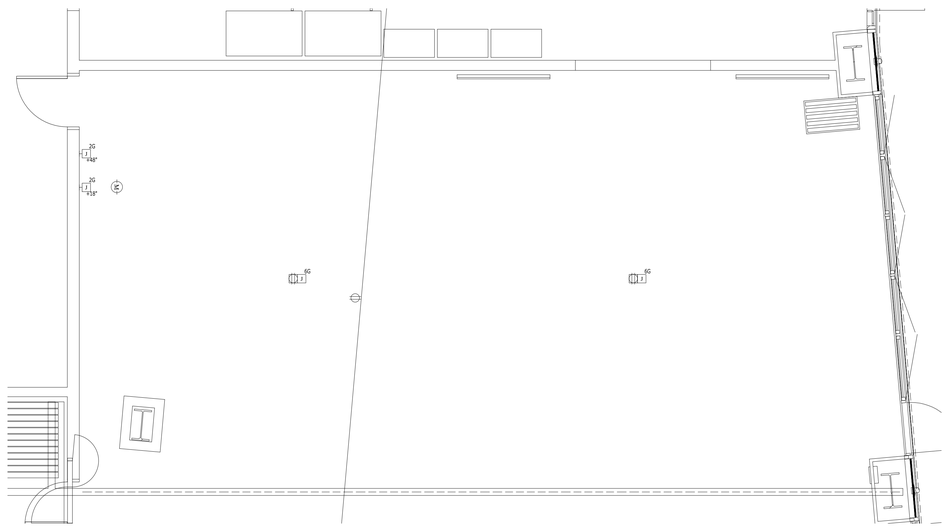
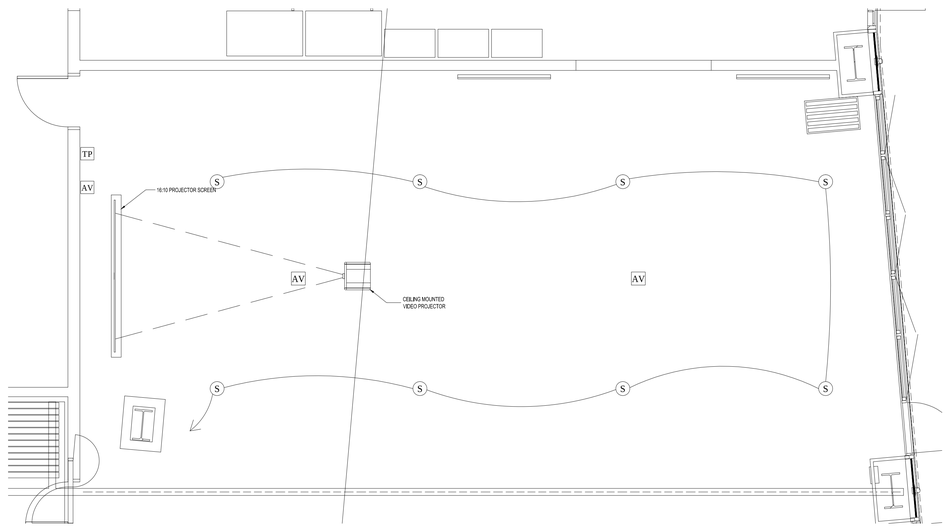


MULTIPURPOSE ROOM 110.1
ENLARGED INFRASTRUCTURE PLAN

1



MULTIPURPOSE ROOM 110.1
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

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TERM 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

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CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 110.1
AV PLAN

Sheet No.

2TA-311

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MULTIPURPOSE ROOM 110.2
ENLARGED INFRASTRUCTURE PLAN

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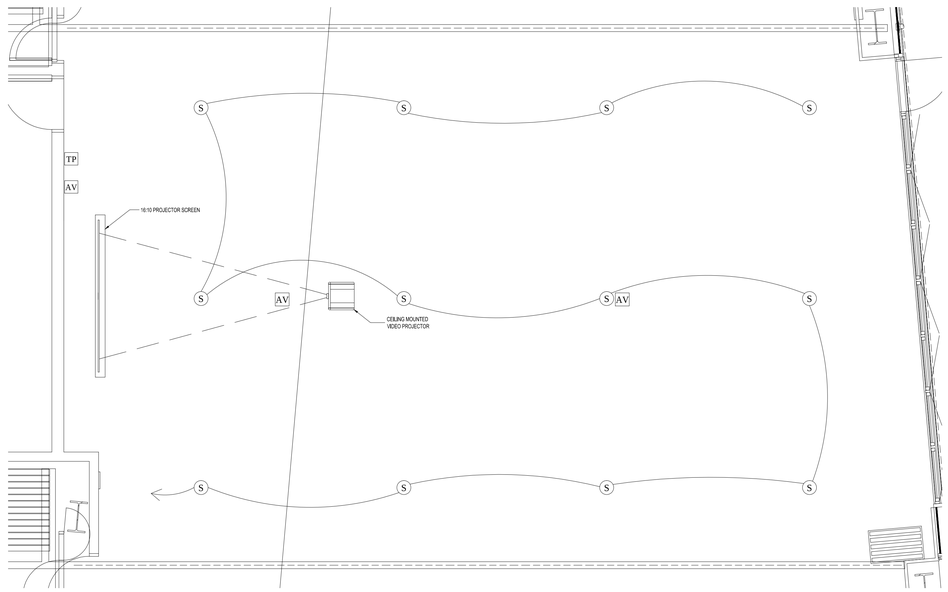

MULTIPURPOSE ROOM 110.2
ENLARGED EQUIPMENT PLAN

2

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08.08.17

Sheet Title

ENLARGED
ROOM 110.2
AV PLAN

Sheet No.

2TA-312

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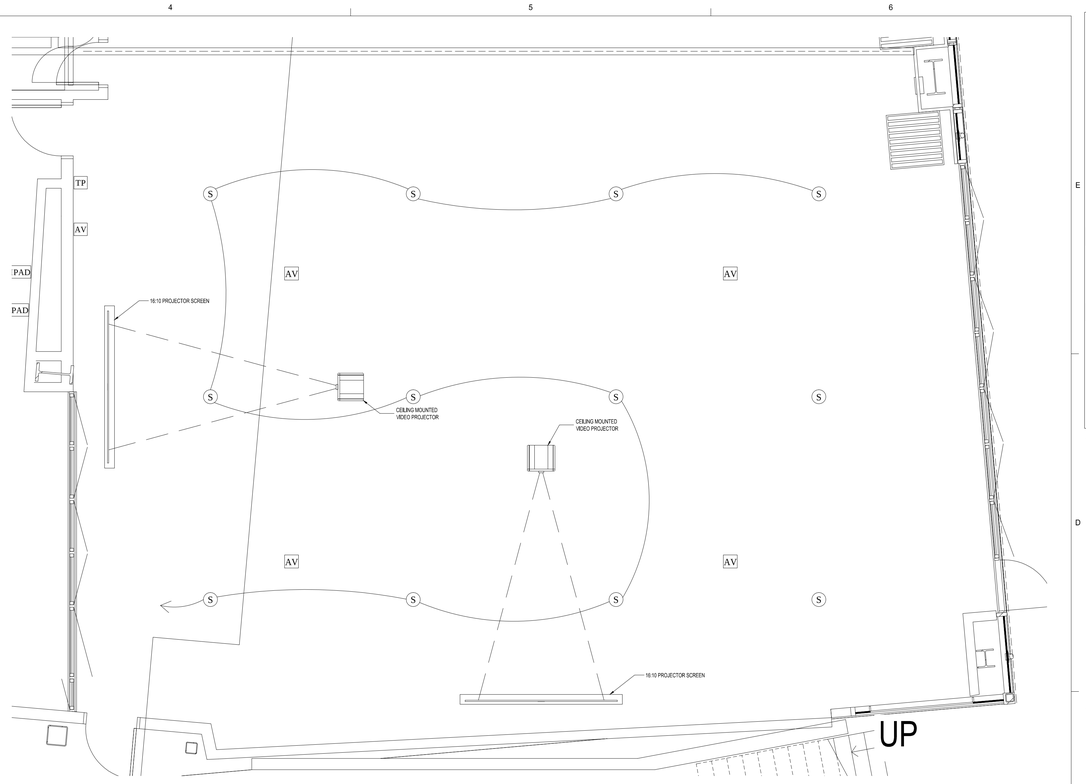
MULTIPURPOSE ROOM 110.3
ENLARGED INFRASTRUCTURE PLAN

1



MULTIPURPOSE ROOM 110.3
ENLARGED EQUIPMENT PLAN

2

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SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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CITY SUBMITTAL SET
08.08.17

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ENLARGED
ROOM 110.3
AV PLAN

Sheet No.

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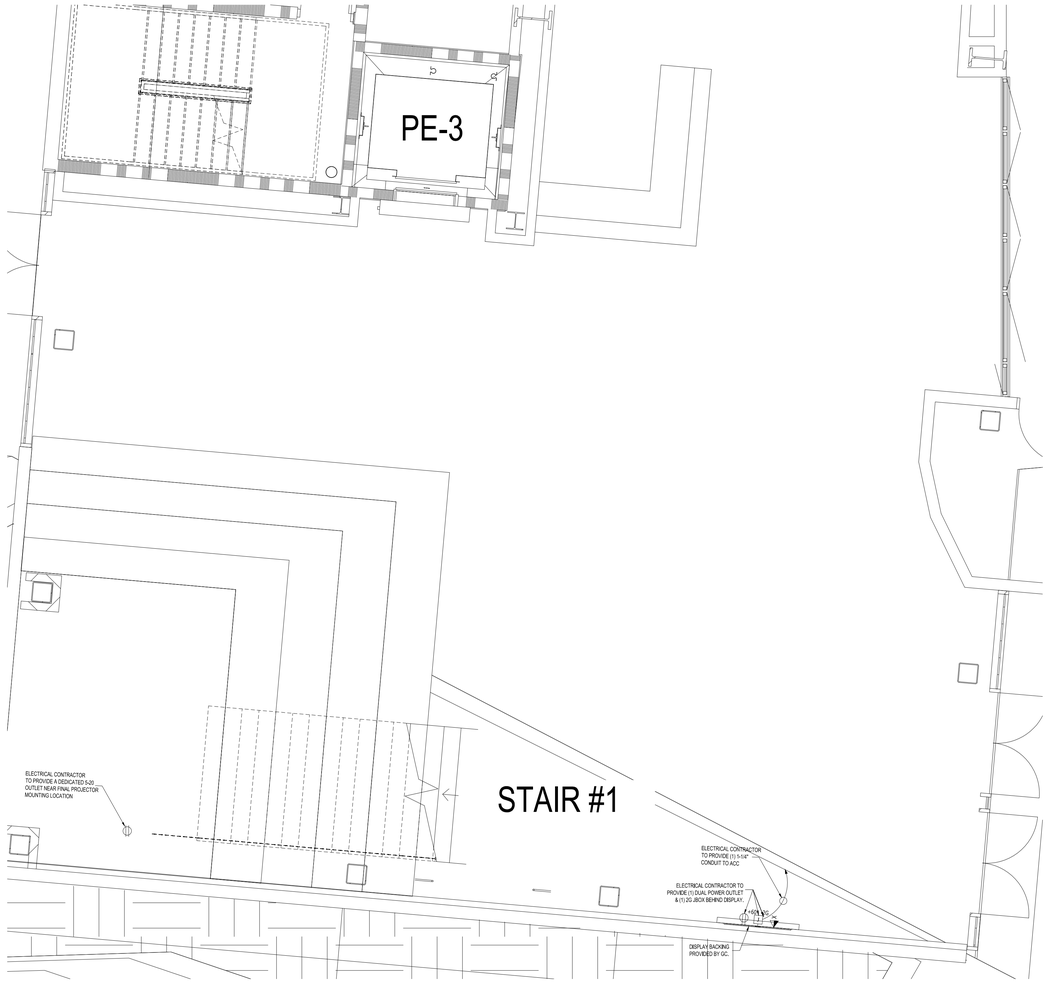
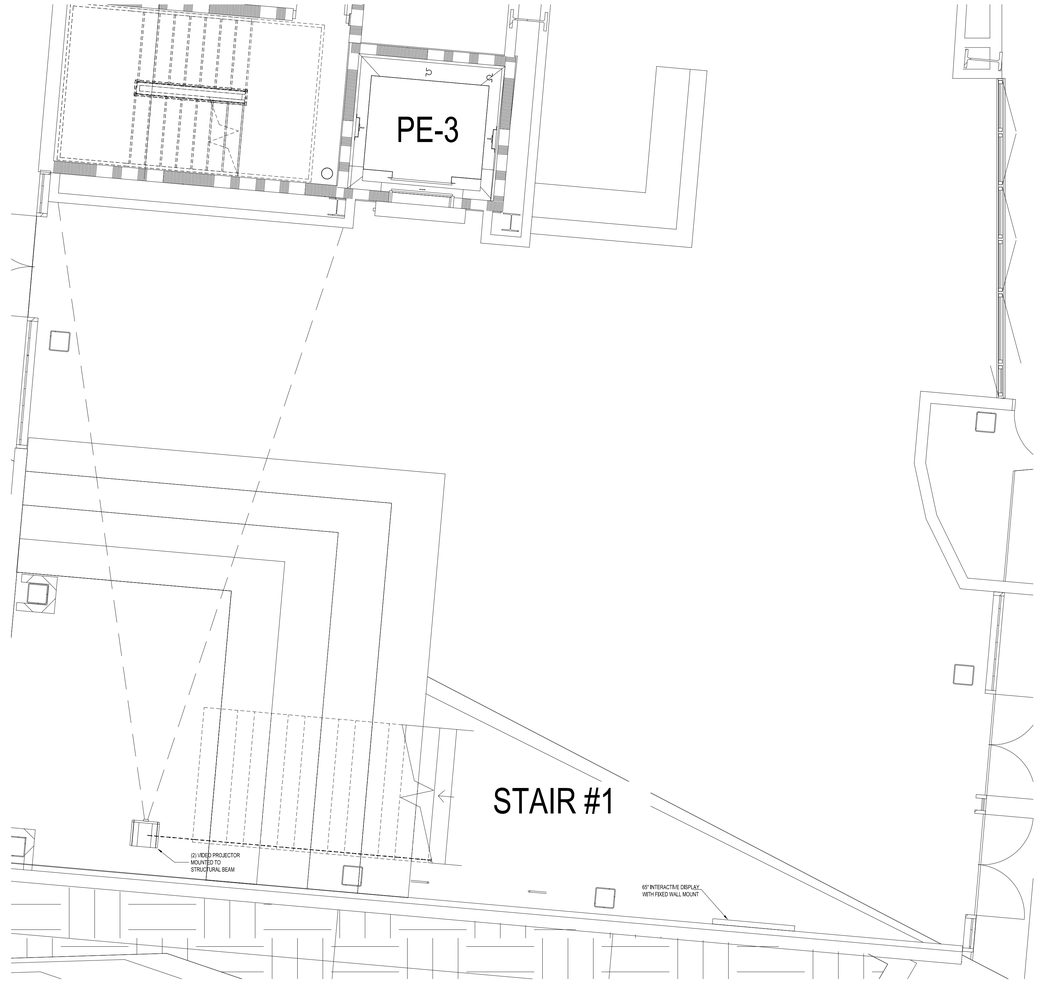


LOBBY 101
ENLARGED INFRASTRUCTURE PLAN

1



LOBBY 101
ENLARGED EQUIPMENT PLAN

2

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BI GENE THEORY
CP-2

TERN
SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 101
AV PLAN

Sheet No.

2TA-314

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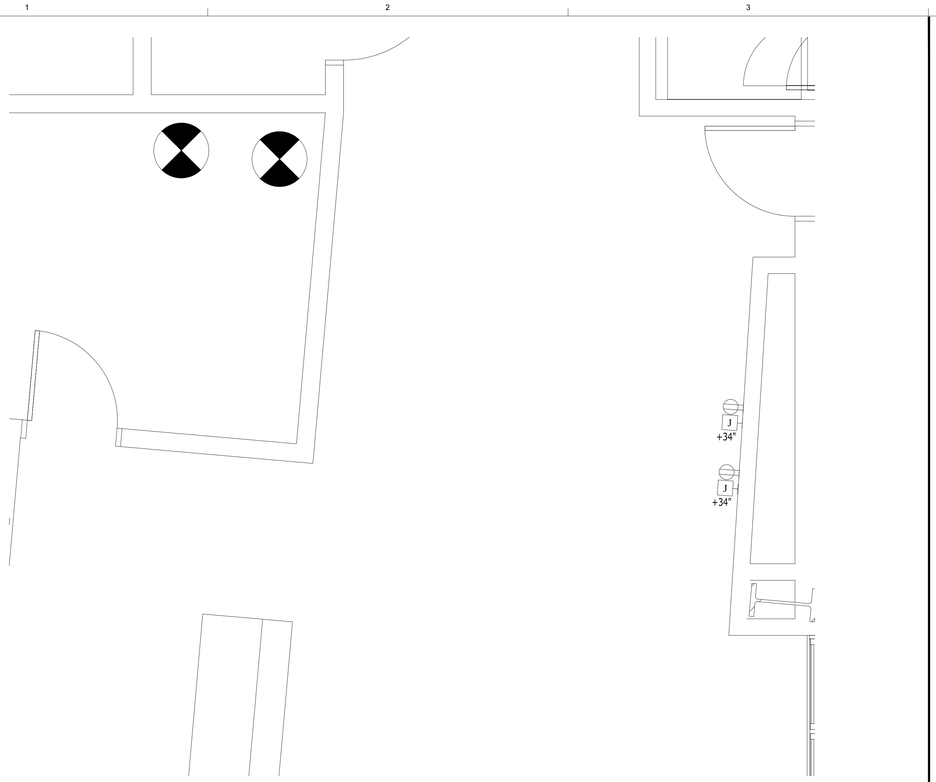
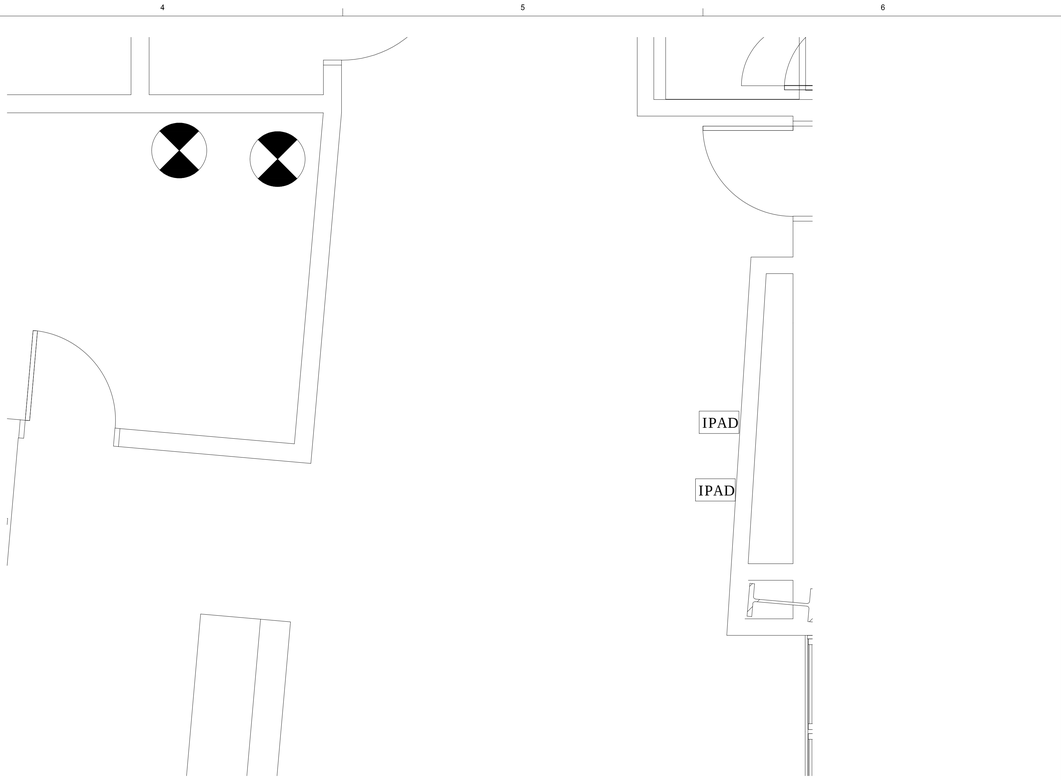


LOBBY 101 IPAD
ENLARGED INFRASTRUCTURE PLAN

1



LOBBY 101 IPAD
ENLARGED EQUIPMENT PLAN

2

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BI GENE THEORY
CP-2

TERMINAL SAN
1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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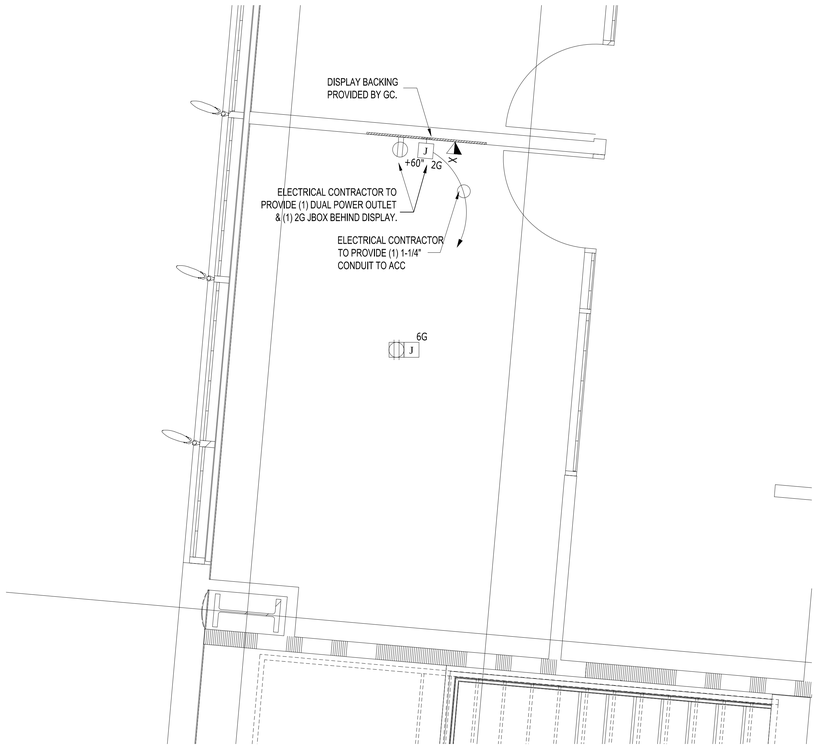
CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
LOBBY IPAD
AV PLAN

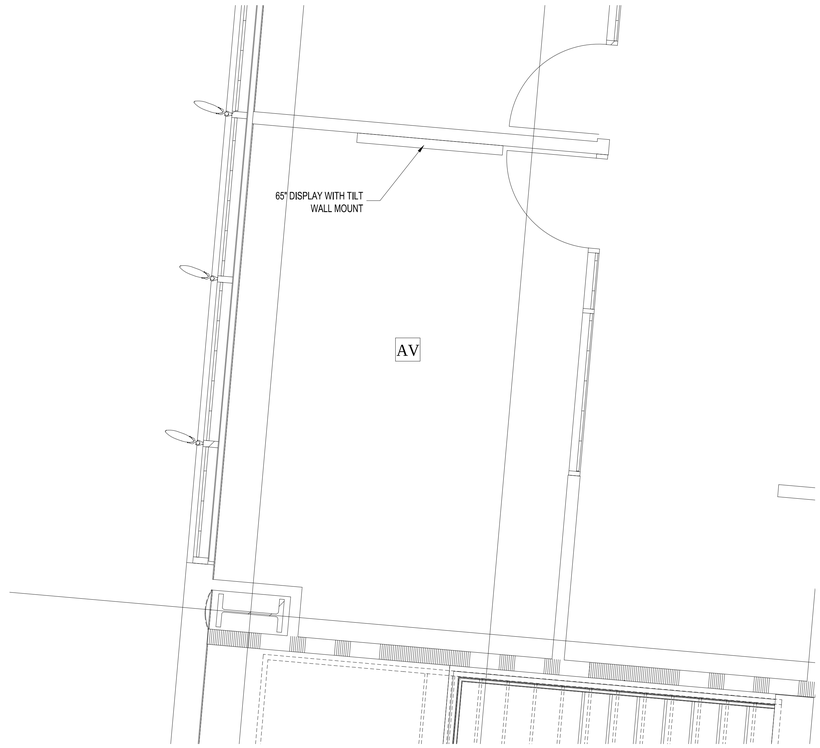
Sheet No.

2TA-315



CONFERENCE ROOM 213
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 213
ENLARGED EQUIPMENT PLAN

2

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BI GENE THEORY
CP-2

TERM
SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

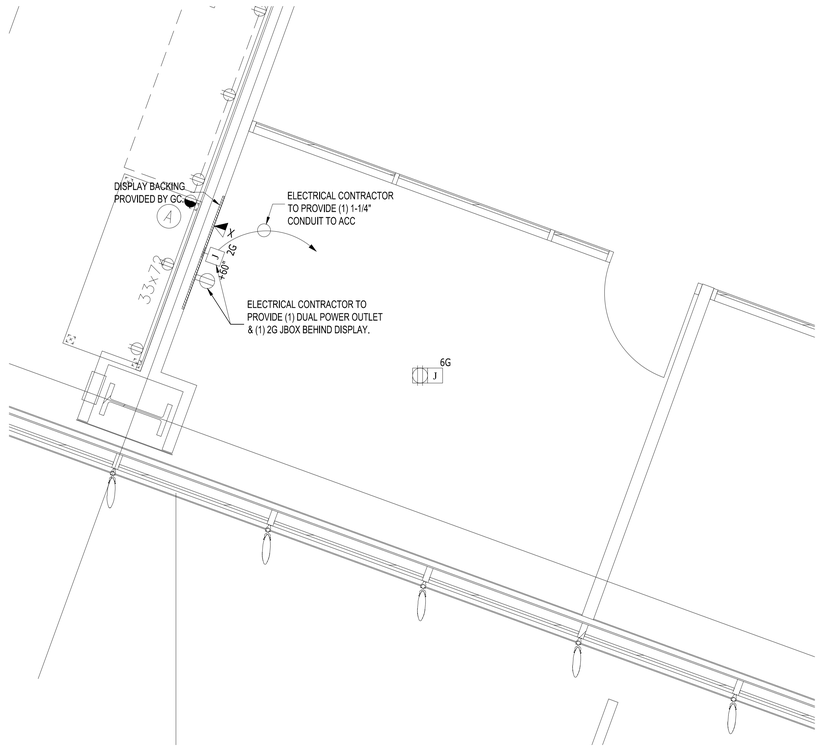
Sheet Title

ENLARGED
ROOM 213
AV PLAN

Sheet No.

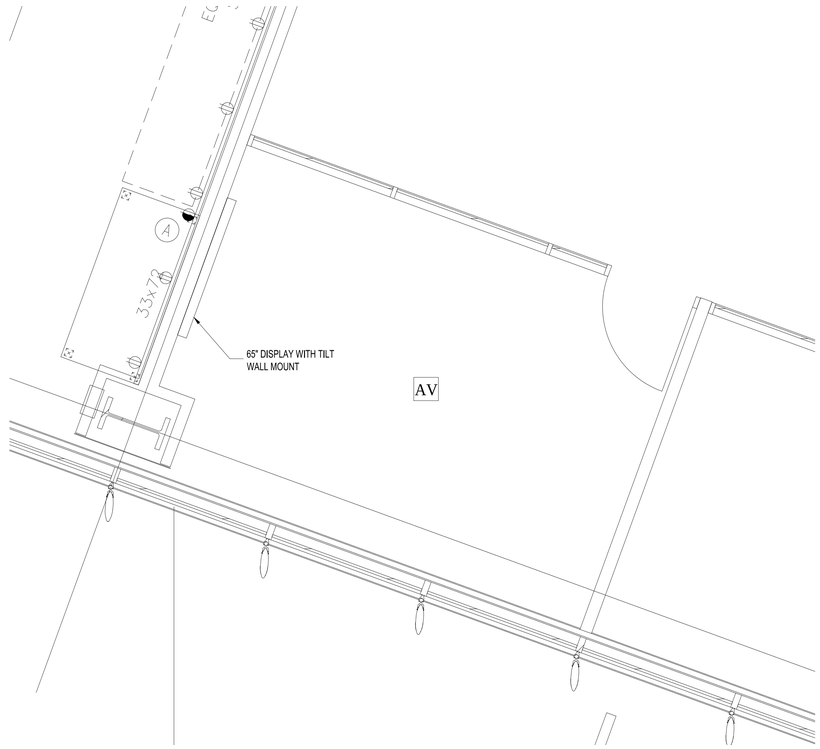
2TA-321

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



CONFERENCE ROOM 260
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 260
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

7/26/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

BI GENE THEORY
CP-2

TERM
SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

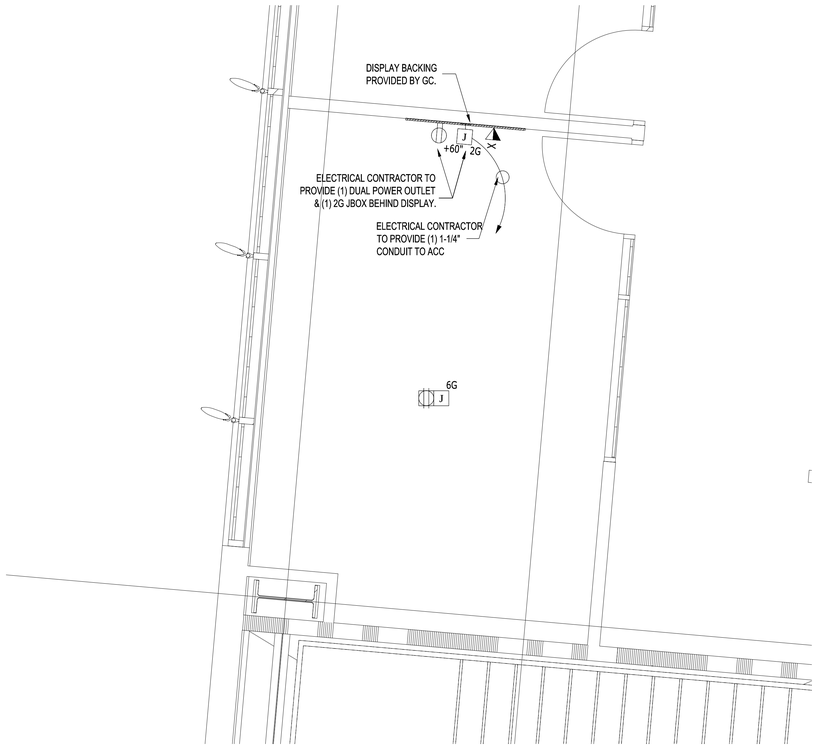
CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 2160
AV PLAN

Sheet No.

2TA-322



CONFERENCE ROOM 313
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 313
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

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BI GENE THEORY
CP-2

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SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

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CITY SUBMITTAL SET
08.08.17

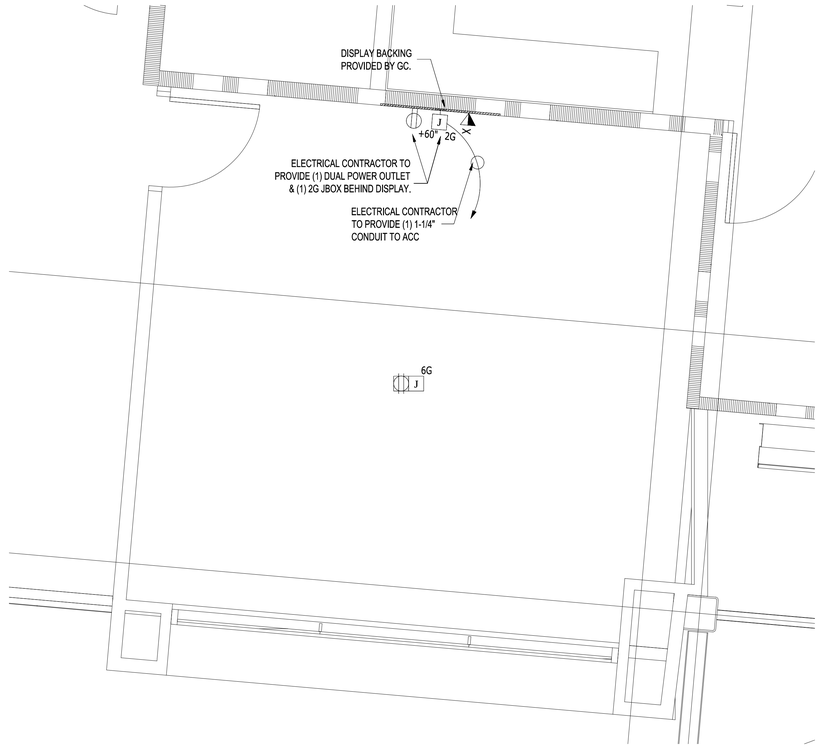
Sheet Title

ENLARGED
ROOM 313
AV PLAN

Sheet No.

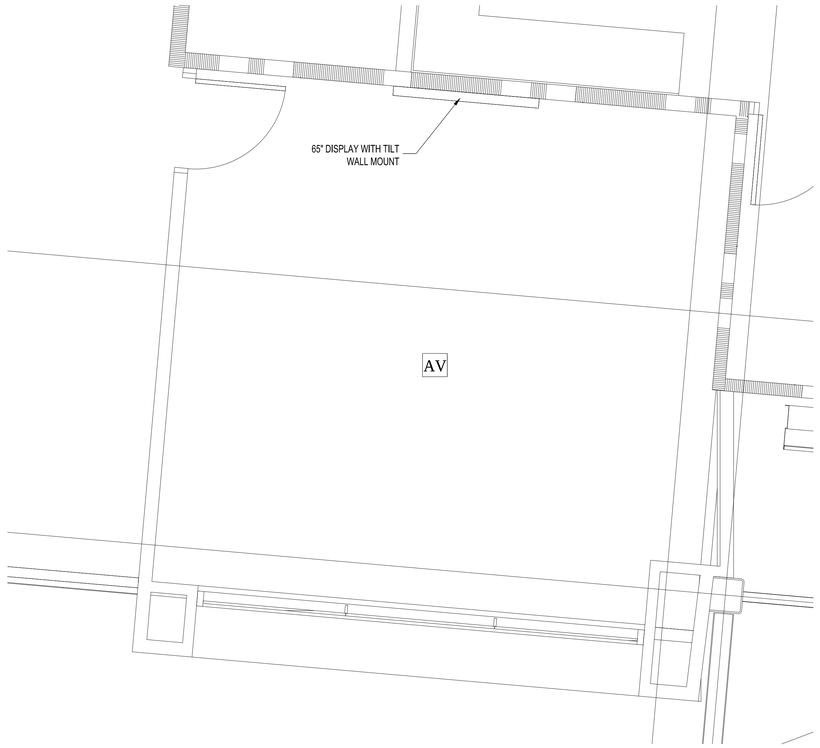
2TA-331

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



CONFERENCE ROOM 310
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 310
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

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BI GENE THEORY
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SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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CITY SUBMITTAL SET
08.08.17

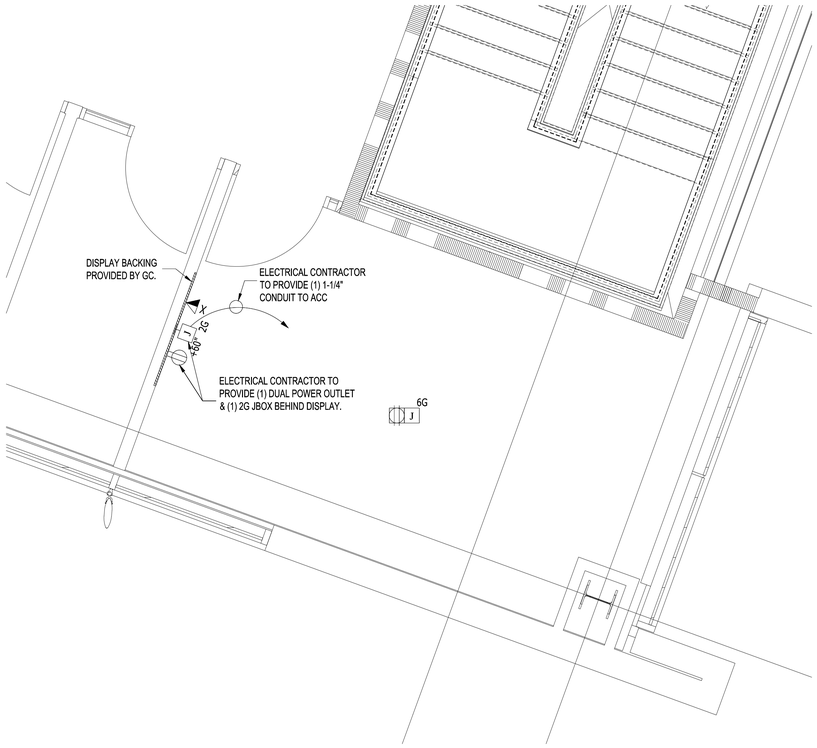
Sheet Title

ENLARGED
ROOM 310
AV PLAN

Sheet No.

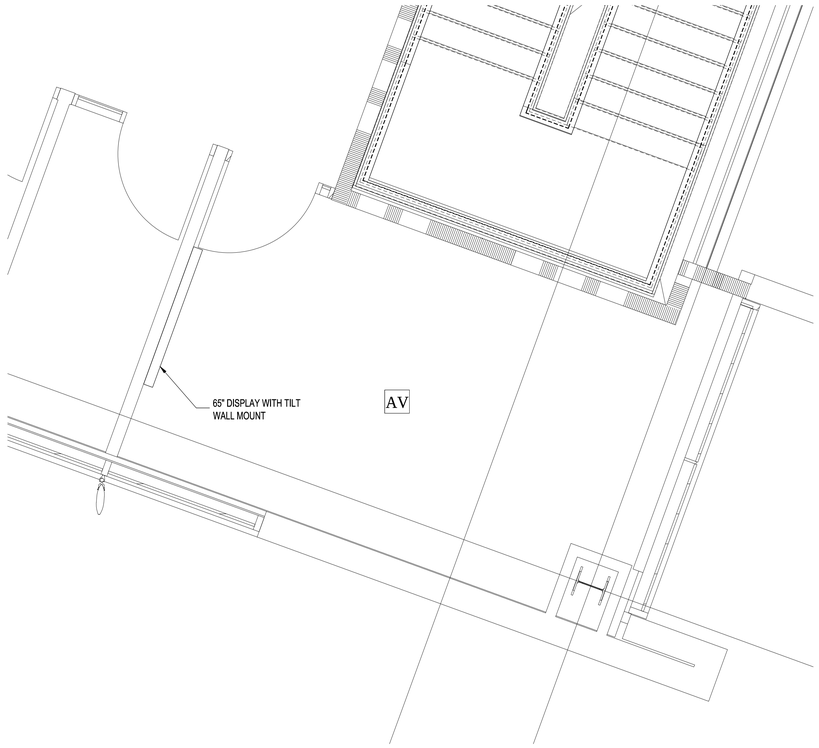
2TA-332

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



CONFERENCE ROOM 370
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 370
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

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BI GENE THEORY
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TERMINUS SAN
1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 370
AV PLAN

Sheet No.

2TA-333

7/26/2017 4:14:23 PM
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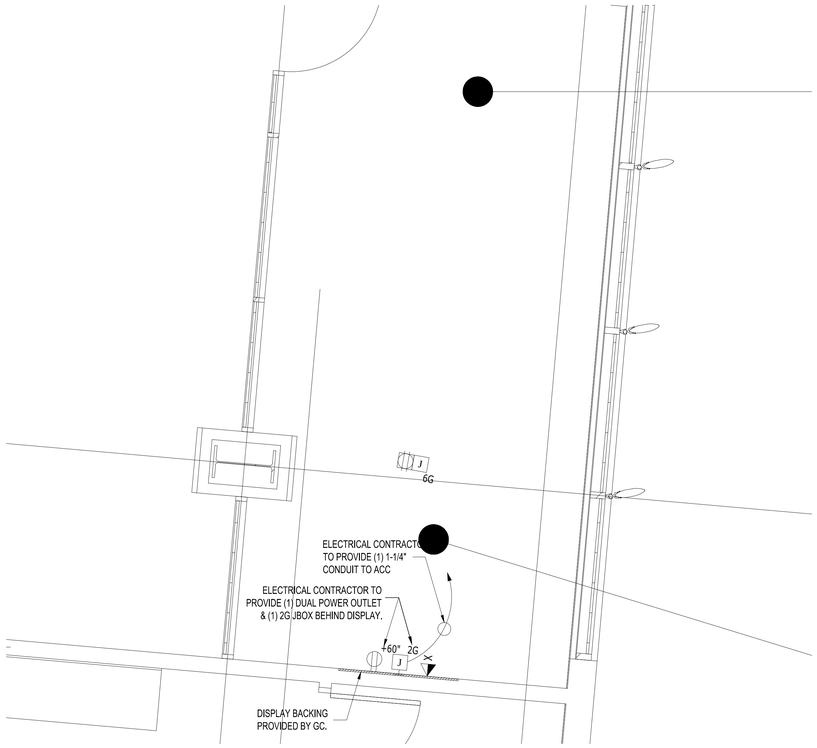
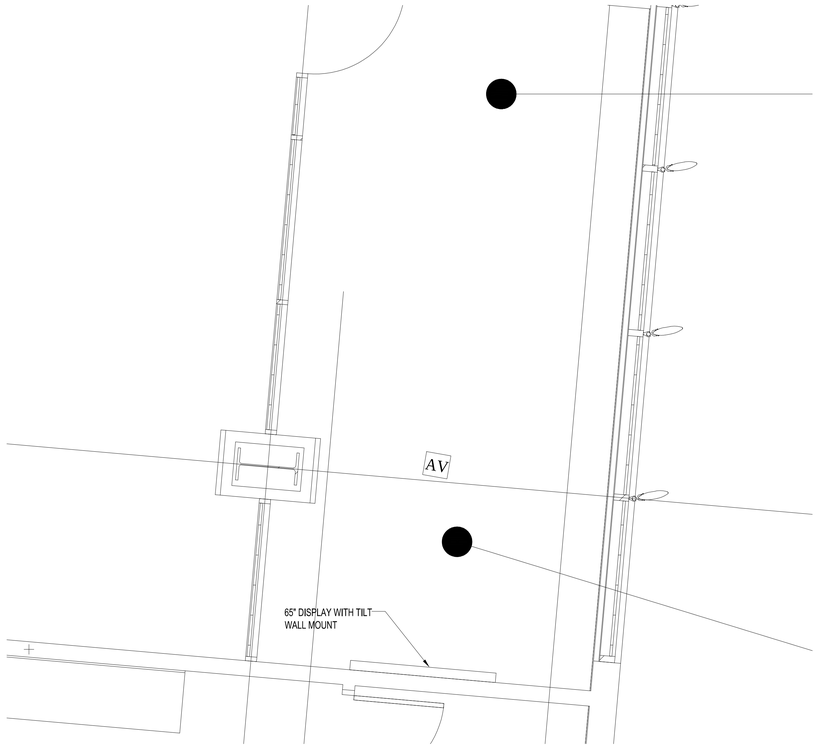


CONFERENCE ROOM 424
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 424
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
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CP-2

TERM 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	04.25.17	DESIGN DEVELOPMENT
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CITY SUBMITTAL SET
08.08.17

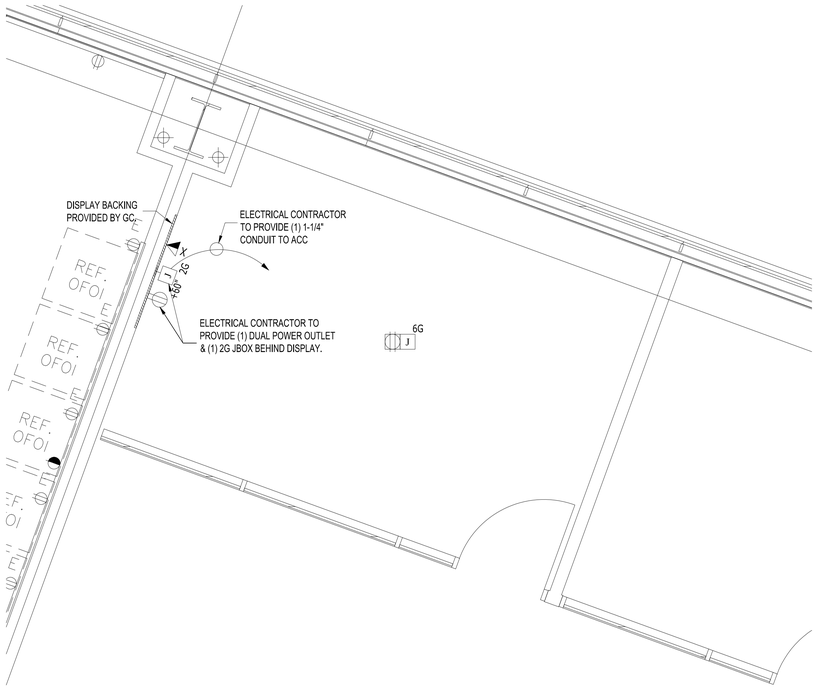
Sheet Title

ENLARGED
ROOM 424
AV PLAN

Sheet No.

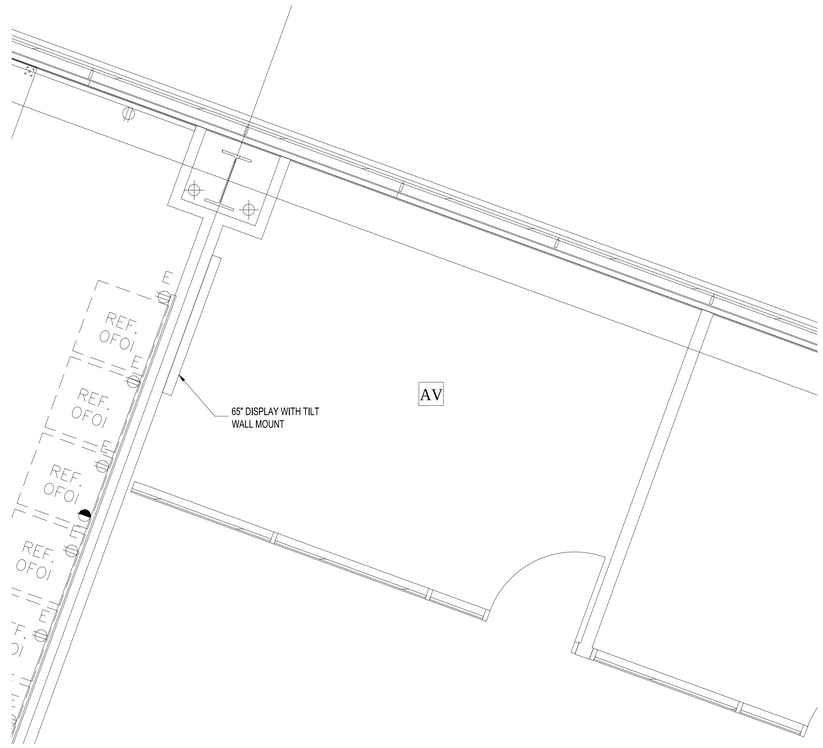
2TA-341

7/26/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



CONFERENCE ROOM 483
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 483
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
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CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 483
AV PLAN

Sheet No.

2TA-342

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

DIVISION 11400 FOODSERVICE EQUIPMENT RESPONSIBILITY SCHEDULE

ITEM	K.E.C. PROVIDE	K.E.C. INSTALL	NOTES	GENERAL CONTRACTOR PROVIDE	GENERAL CONTRACTOR INSTALL	NOTES	ELECTRICAL CONTRACTOR PROVIDE	ELECTRICAL CONTRACTOR INSTALL	NOTES	MECHANICAL CONTRACTOR PROVIDE	MECHANICAL CONTRACTOR INSTALL	NOTES	PLUMBING CONTRACTOR PROVIDE	PLUMBING CONTRACTOR INSTALL	NOTES
GENERAL															
DELIVER, UNCRATE & SET-IN-PLACE	X	X													
WALL BACKING				X	X	1									
ALL FLOOR, WALL, ROOF PENETRATIONS, SLEEVING AND FIREPROOFING/INSULATION.				X	X										
START-UP, TEST AND CALIBRATE K.E.C. PROVIDED EQUIPMENT	X														
P.O.S. DATA INTERFACE CABLE							X	X							
ELECTRICAL															
REVIEW K.E.C. CONSTRUCTION DRAWINGS & NOTIFY K.E.C. OF VARIANCES FROM ARCHITECTURAL/ELECTRICAL DRAWINGS							X	X	1						
CONNECT EQUIPMENT TO BUILDING ELECTRICAL SERVICE							X	X	1						
INTER-CONNECTIONS BETWEEN EQUIPMENT COMPONENTS & FIELD JOINTS							X	X	1						
CONTROL WIRING							X	X	1						
ELECTRICAL MATERIALS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM SUCH AS BUT NOT LIMITED TO: CONDUIT, JUNCTION BOXES, WIRING, CONNECTORS, SWITCHES, DISCONNECT SWITCHES AND RECEPTACLES							X	X	1						
MECHANICAL															
ALL FINAL PLUMBING CONNECTIONS AND INTERCONNECTIONS TO EQUIPMENT FROM BUILDING SERVICES													X	X	
ALL PLUMBING MATERIALS INCLUDING PIPES, TRAPS, STOPS, VALVES, FITTINGS, SHUT-OFFS, WATER HAMMER ARRESTORS, PRESSURE REDUCING VALVES, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.													X	X	
ALL FLOOR, WALL, ROOF PENETRATIONS, SLEEVING AND FIREPROOFING/INSULATING/RE-SEALING										X	X		X	X	
SINK FAUCETS	X													X	
WASTE FITTINGS	X													X	
FLEXIBLE GAS HOSES FOR MOBILE EQUIPMENT	X													X	
APPLIANCE GAS PRESSURE REGULATORS	X													X	
PRIMARY GAS PRESSURE REGULATORS FOR MAIN FEED TO EQUIPMENT													X	X	2
S/S FLOOR TROUGHS	X													X	
STAINLESS STEEL TABLES Z-CLIPS FOR BACKSPLASHES	X	X													
VENTILATION															
NON-WATER WASH EXHAUST HOOD															
EXHAUST HOOD	X	X													
DUCT WORK AND DUCT CONNECTIONS AT HOOD COLLARS										X	X				
ADDITIONAL STRUCTURAL SUPPORT BEYOND HANGING MATERIALS				X	X										
FAN STARTERS AND/OR RELAYS							X	X		X	X				
CONTROL WIRING FROM FAN STARTERS TO HOOD FAN CONTROLS.							X	X	3,4						
PROVIDE FAN ON/OFF SWITCHES.	X	X	3, 4												
INTER-CONNECTING LIGHT CIRCUITS AT FIELD JOINTS							X	X							
FINAL ELECTRICAL CONNECTIONS TO LIGHTS.								X	3						
LIGHT FIXTURES AND LIGHT BULBS	X	X													
AIR BALANCING											X				
PERMITS TO HANG HOODS (IF REQUIRED)	X														
CLOSURE PANELS TO FINISHED CEILING	X	X													
UV HOODS															
UV LIGHTS IN HOOD.	X	X													
UV LIGHT BULBS.	X	X													
WIRING FROM HOOD CONTROL PANEL TO UV LIGHTS.							X	X							
S/S DUCT RISER (IN LIEU OF CONDENSATE HOOD)															
S/S DUCT RISER FROM DISHMACHINE TO 2" ABOVE FINISHED CEILING WITH S/S ESCUTCHEONS.	X	X													
S/S DUCT CONNECTION AT DISHMACHINE.	X	X													
DUCT WORK AND DUCT CONNECTION ABOVE FINISHED CEILING.										X	X				
PROVIDE FAN/DISHMACHINE INTERLOCK RELAY.	X	X	5,6												
INTERWIRE INTERLOCK RELAY TO FAN MOTOR STARTERS.								X							
EXHAUST HOOD ENERGY MANAGEMENT SYSTEM															
EMS CONTROL PANEL.	X	X													
SENSORS IN HOOD.	X	X													
GREASE SENSOR IN DUCT.	X	X													
VFD (VARIABLE FREQUENCY DRIVES).	X							X							
ELECTRIC TO CONTROL PANEL.							X	X							
WIRING FROM CONTROL PANEL TO SENSORS.							X	X							
WIRING FROM CONTROL PANEL TO VFD.							X	X							
WIRING FROM VFD'S TO FANS.							X	X							
WIRING BETWEEN CONTROL PANEL & FIRE SUPPRESSION SYSTEM.							X	X							
INTERNET CONNECTION TO CONTROL PANEL.							X	X							
INTERNET WIRING FROM CONTROL PANEL TO HOOD COMPONENTS.	X							X							
WIRING FROM CONTROL PANEL TO BUILDING MANAGEMENT SYSTEM (BMS).							X	X							
INTERCONNECTION OF HOOD COMPONENTS ON MULTIPLE CANOPY ASSEMBLY.							X	X							

ITEM	K.E.C. PROVIDE	K.E.C. INSTALL	NOTES	GENERAL CONTRACTOR PROVIDE	GENERAL CONTRACTOR INSTALL	NOTES	ELECTRICAL CONTRACTOR PROVIDE	ELECTRICAL CONTRACTOR INSTALL	NOTES	MECHANICAL CONTRACTOR PROVIDE	MECHANICAL CONTRACTOR INSTALL	NOTES	PLUMBING CONTRACTOR PROVIDE	PLUMBING CONTRACTOR INSTALL	NOTES
FIRE SUPPRESSION SYSTEM															
CHEMICAL ONLY SYSTEM															
SYSTEM COMPONENTS.	X	X													
PERMIT, TESTING, CERTIFICATION.	X														
CHEMICAL PIPING FROM HOOD TO OTTOMAN.	X	X													
OCTAGONAL PULL BOXES RECESSED IN WALL.							X	X	1						
CONCEALED CONDUIT FROM PULL BOXES TO 6" ABOVE FINISHED CEILING.							X	X							
GAS SHUT-OFF VALVE (ELECTRIC OR MECHANICAL).	X													X	
RESETS FOR ELECTRICAL GAS VALVE.	X							X							
SHUNT TRIP BREAKERS							X	X							
N.O./N.C. CONTACTORS FOR FAN SEQUENCING AND/OR FIRE ALARM INTERFACE (CONTACTORS SUPPLIED AS PART OF OTTOMAN ONLY).	X	X	3												
ALL ELECTRICAL WIRING AS REQUIRED TO INTERCONNECT OTTOMAN, GAS SHUT-OFF VALVES, RESETS, BUILDING ALARMS, SHUNT TRIP CIRCUITS, FAN CONTROL/SEQUENCING AS REQUIRED							X	X	1,3						
WATER & CHEMICAL SYSTEM (ADDITIONAL WORK REQUIRED)															
POTABLE OR SPINKLER WATER SUPPLY TO OTTOMAN.													X	X	1, 3
WATER PIPING FROM OTTOMAN TO HOOD(S).	X	X	1, 3												
WATER PRESSURE REDUCING VALVES.													X	X	1, 3
PERMIT, TESTING, CERTIFICATION.	X	X	1, 3												
LOCKABLE WATER SHUT-OFF VALVE FOR WATER SUPPLY TO OTTOMAN.													X	X	
WALK-IN BOX															
WALL, CEILING & FLOOR PANEL ASSEMBLIES.	X	X	7,8												
INSTALLATION PERMIT (IF REQUIRED)	X														
SLAB AND/OR FLOOR SLAB DEPRESSION.				X	X	7									
ALL APPLIED FLOORING MATERIALS.				X	X	7,8									
PREFABRICATED FLOOR PANELS WHEN SPECIFIED.	X	X	7,8												
ADDITIONAL LIGHT FIXTURES.	X							X							
LIGHT BULBS.	X	X													
ALL ELECTRICAL WIRING AND INTERWIRING TO DOOR ASSEMBLY AND LIGHT FIXTURES.							X	X							
ALL WIRING TO HEATED PRESSURE RELIEF VENTS.							X	X							
ALL PENETRATIONS THROUGH WALL PANELS AND CEILING PANELS FOR REQUIRED ELECTRICAL CONDUIT.	X		9,10												
SEALING OF PENETRATIONS INCLUDING INSIDE CONDUITS.							X	X							
CEILING CLOSURE PANELS AND WALL TRIM.	X	X													
FILL GROUT BETWEEN PANELS AND SLAB DEPRESSION.				X	X										
REMOTE REFRIGERATION															
EVAPORATORS AND CONDENSING UNITS.	X	X													
REFRIGERATION PIPING FROM EVAPORATORS TO CONDENSING UNITS.	X	X													
PERMITS.	X	X													
WALL, ROOF, FLOOR PENETRATIONS, SLEEVES & REQUIRED SEALING/FIREPROOFING.				X	X										
WIRING FROM TIME CLOCK TO FREEZER EVAPORATORS							X	X	1,3						
WALK-IN EVAPORATOR COIL DRAINS TO FLOOR SINKS.	X	X													
WALK-IN FREEZER DRAIN HEATERS.	X							X							
INSULATE FREEZER DRAIN LINES.	X	X													
FINAL ELECTRICAL CONNECTION FOR FREEZER DRAIN HEAT TAPE.								X							
FINAL ELECTRICAL CONNECTIONS TO COILS, CONDENSING UNITS, REFRIGERATION RACKS, ETC.							X	X	1,3						
ROOF CURBS, PITCH POCKETS, HOUSEKEEPING PADS FOR CONDENSING UNITS.				X	X										
ELECTRICAL DISCONNECTS (IF REQUIRED)							X	X							
WATER COOLED CONDENSERS (ADDITIONAL WORK)															
COOLING WATER CONNECTIONS TO CONDENSERS.													X	X	1, 3
POTABLE WATER BACK-UP (IF REQUIRED)													X	X	
WATER PRESSURE REDUCING VALVES.													X	X	3
WATER PRESSURE AND TEMPERATURE GAUGE(S).													X	X	
HAND VALVES TO ISOLATE CONDENSER FOR SERVICE.													X	X	
COOLING WATER STRAINER (INPUT).													X	X	
METREX FLOW CONTROL REGULATORS.													X	X	
DISHMACHINE & WATER BOOSTER HEATER															
ELECTRIC TANK HEAT															
FINAL PLUMBING CONNECTIONS FROM BUILDING SERVICES.													X	X	
INTERPIPING BOOSTER HEATER TO FINAL RINSE ON DISHMACHINE.														X	
WATER PRESSURE REDUCER.	X													X	
FINAL ELECTRICAL CONNECTION FROM BUILDING SERVICES.							X	X							
ELECTRICAL DISCONNECTS (IF REQUIRED).							X	X	12						
FAN/DISHMACHINE INTERLOCK RELAY (PRE-INSTALLED BY MANUFACTURER).	X	X													
INTERWIRE FAN/DISHMACHINE INTERLOCK RELAY TO EXHAUST FAN MOTOR STARTERS.							X	X							
TABLE LIMIT SWITCH (LOCATED @ END OF CLEAN DISHTABLE).	X	X													
INTERWIRE TABLE LIMIT SWITCH TO DISHMACHINE.							X	X							
WATER TEMPERATURE AND WATER PRESSURE GAUGES FOR BOOSTER HEATER.	X													X	
140° F INCOMING WATER TEMPERATURE TO BOOSTER HEATER.													X		
S/S DUCT RISERS TO 2" ABOVE FINISHED CEILING AND DUCT COLLARS.	X	X													
DUCT CONNECTIONS ABOVE FINISHED CEILING.										X	X				

ITEM	K.E.C. PROVIDE	K.E.C. INSTALL	NOTES	GENERAL CONTRACTOR PROVIDE	GENERAL CONTRACTOR INSTALL	NOTES	ELECTRICAL CONTRACTOR PROVIDE	ELECTRICAL CONTRACTOR INSTALL	NOTES	MECHANICAL CONTRACTOR PROVIDE	MECHANICAL CONTRACTOR INSTALL	NOTES	PLUMBING CONTRACTOR PROVIDE	PLUMBING CONTRACTOR INSTALL	NOTES	OTHERS PROVIDE	OTHERS INSTALL	NOTES
ICE MACHINE																		
ICE MACHINE & BIN.	X	X																
WATER FILTER (CENTRAL SYSTEM).	X													X				
WATER PIPE FROM CENTRAL FILTER SYSTEM TO ICE MACHINES.													X	X				
ELECTRICAL DISCONNECTS (IF REQUIRED).							X	X										
COOLING WATER SUPPLY & RETURN.													X	X				
WATER COOLED: METREX VALVES.													X	X				
SODA SYSTEM																		
SODA LINE CONDUIT FROM SODA SYSTEM TO DISPENSERS.																X	X	1
SODA LINES AND CO2 LINES																X	X	19
SODA DISPENSERS																X	X	19
POTABLE WATER CONNECTIONS AT CARBINATOR.																X	X	19
ELECTRICAL CONNECTIONS TO CARBONATORS & DISPENSERS.																X	X	19

ITEM	K.E.C. PROVIDE	K.E.C. INSTALL	NOTES	GENERAL CONTRACTOR PROVIDE	GENERAL CONTRACTOR INSTALL	NOTES	ELECTRICAL CONTRACTOR PROVIDE	ELECTRICAL CONTRACTOR INSTALL	NOTES	MECHANICAL CONTRACTOR PROVIDE	MECHANICAL CONTRACTOR INSTALL	NOTES	PLUMBING CONTRACTOR PROVIDE	PLUMBING CONTRACTOR INSTALL	NOTES	OTHERS PROVIDE	OTHERS INSTALL	NOTES
ITEM	K.E.C. PROVIDE	K.E.C. INSTALL	NOTES	GENERAL CONTRACTOR PROVIDE	GENERAL CONTRACTOR INSTALL	NOTES	ELECTRICAL CONTRACTOR PROVIDE	ELECTRICAL CONTRACTOR INSTALL	NOTES	MECHANICAL CONTRACTOR PROVIDE	MECHANICAL CONTRACTOR INSTALL	NOTES	PLUMBING CONTRACTOR PROVIDE	PLUMBING CONTRACTOR INSTALL	NOTES	OTHERS PROVIDE	OTHERS INSTALL	NOTES

NOTES KEY

1	SEE CONTRACTK.E.C. CONSTRUCTION DRAWINGS FOR LOCATIONS.
2	MAXIMUM GAS PRESSURE NOT TO EXCEED 8" WC NATURAL GAS. VERIFY GAS PRESSURE REQUIREMENTS WITH K.E.C. FOR LP SERVICES.
3	SEE MANUFACTURER'S SHOP DRAWING FOR ADDITIONAL DETAILS.
4	VERIFY IF FAN CONTROLS ARE PART OF HOOD PACKAGE SUPPLIED BY K.E.C.
5	STARTS EXHAUST FAN WHEN DISHMACHINE IS ACTIVATED.
6	CONTROL WIRING FROM RELAY ON DISHMACHINE TO EXHAUST FAN STARTERS BY EC.
7	SEE K.E.C. COORDINATION DRAWINGS FOR FLOOR ASSEMBLY DETAILS.
8	SEE MANUFACTURER'S SHOP DRAWINGS FOR FLOOR DETAILS.
9	ALL CONDUIT TO RUN ON EXTERIOR OF WALK-IN BOX.
10	ELECTRICAL TRADES TO INSULATE ON INSIDE OF CONDUIT TO PREVENT CONDENSATION AND RESEAL ALL PENETRATIONS THROUGH PANELS.
11	K.E.C. TO PROVIDE & INSTALL ALLARMS AND PROBES.
12	COORDINATE DISHMACHINE DISCONNECT LOCATION WITH K.E.C.
13	SEE CUT SHEETS FOR DISPOSER CONTROL. CONTROL SUPPLIED MAY INCLUDE A DISCONNECT.
14	PROVIDE (1) BALL VALVE FOR EACH NOZZLE PLUS (1) BALL VALVE FOR DISPOSER.
15	BALL VALVES ARE REQUIRED TO REGULATE WATER FLOW AT EACH NOZZLE AND AT DISPOSER BODY.
16	SEE K.E.C. COORDINATION DRAWINGS FOR DETAILS.
17	SEE MANUFACTURER'S SHOP DRAWINGS FOR DETAILED WIRING DIAGRAM.
18	ARCHITECT TO DETERMINE IF A FIRE RATED DOOR IS REQUIRED.
19	VENDOR PROVIDED & INSTALLED.

ABBREVIATIONS KEY

EC	ELECTRICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
H/ACC	HEATING, VENTILATION & AIR CONDITIONING CONTRACTOR
&	AND
NC	NORMALLY CLOSED
NO	NORMALLY OPEN

THIS SCHEDULE IS PROVIDED AS A GUIDELINE FOR USE IN IDENTIFYNG GENERAL INSTALLATION REQUIREMENTS FOR FOODSERVICE EQUIPMENT AND IS NOT TO BE CONSIDERED A COMPREHENSIVE LISTING.

REFER TO ALL FOODSERVICE EQUIPMENT SUBMITTALS FOR DETAILED INFORMATION FOR INSTALLING AND/OR CONNECTING EQUIPMENT.

MEP CONTRACTORS AND ENGINEERS: Please note that these drawings are for planning locations and costs for rough-in connections to equipement as noted in these plans. The final selection of equipment may change and effect the size, location and cost of the work associated. All services to the equipment shown should be reverified with the final "For Construction" drawings produced by the installer.

Summary of work
1. The work to be performed by the Contractor(s) under this set of contract documents is the demolition, alteration and new construction as is necessary to provide for the installation of the foodservice equipment shown herein, and includes the following:
2. It is the intent of the contract notes and documentation that all materials, equipment, and all systems be installed properly and complete for their intended function in the completed work.
3. The work includes, but is not limited to all labor, materials, equipment, tools, machinery, construction facilities and temporary controls, transportation and other facilities and services necessary to produce the construction required by the contract documents.
4. All specifications books, addenda, inquiries and requests attached to or distributed with these drawings constitute the complete scope of work to be fulfilled in
these plans.

General Notes and Conditions
1. MULLER DESIGN INC. DOES NOT REPRESENT THEMSELVES AS ARCHITECTS, CONTRACTORS OR ENGINEERS. THESE DRAWINGS ARE PROVIDED FOR THE CONVENIENCE OF THE ARCHITECT, CONTRACTOR AND/OR SUBCONTRACTORS TO SHOW THE GENERAL PLACEMENT OF EQUIPMENT, FIXTURES, FURNISHINGS AND/OR MATERIALS AND WERE MADE FROM AVAILABLE INFORMATION AT THE TIME THEY WERE DRAWN.
2. ALL PLUMBING, ELECTRICAL, VENTILATION AND REFRIGERATION, ROUGH-IN WORK, FINAL CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT AND FIXTURES INCLUDING TAPS, VALVES, GREASE TRAPS, MISC. FITTINGS, SWITCHES, WIRING, CONDUIT OR FLEX, MAGNETIC STARTERS, DISCONNECTS, ELECTRICAL PANELS, THERMAL OVERLOAD PROTECTION, CORDS AND PLUGS, ETC. MUST BE SPECIFIED AND PROVIDED BY EQUIPMENT PROVIDER.
3. WORK BY ANY TRADE INDICATED ON THESE PLANS DOES NOT NECESSARILY REFLECT COMPLIANCE WITH EACH TRADE'S RESPECTIVE CODES, ORDINANCES AND REGULATIONS AND THEREFORE DOES NOT RELIEVE THEM OF THEIR RESPONSIBILITY TO ASSURE SUCH.
4. All dimensions and conditions must be verified at the job site. Details shown are typical.
5. All dimensions when shown in plan are to face of finished surfaces unless otherwise noted. Installer must verify all field dimensions and relay any discrepencies and problems to the designer and PM for resolution in a timely manner.
6. Contractors, subcontractors, sheetmetal fabricators and trades shall provide and submit their own necessary rough-in plans, elevations and drawings.
7. General contractor shall provide all ceiling, wall and floor penetrations and all sleeves for plumbing, electrical, refrigeration and CO2 lines and ventilation ducts as required. All penetrations and remote location sites must be verified and approved by project engineers.
8. A fire suppression system conforming to all local codes and specifications shall be fitted to all required equipment and hoods and shall be specified and shown on a separate drawing by food service equipment supplier.
9. Plumbing contractor shall select, provide and locate correctly-sized grease traps, floor sinks, drains as required and co-ordinate the installation of these to comply with the requirements as specified by the foodservice equipment supplier.
10. Any errors, omissions or conflict found in the various parts of the schematic documents shall be brought to the attention of the architect and/or project manager before proceeding with the work.
11. Foodservice equipment supplier agrees to carry out commissioning on all equipment, materials, and systems in accordance with manufacturer's recommendations and upon completion of the installation at such time as designated by employer or project manager.
12. Foodservice equipment supplier warrants all standards, fabrications and designs meet or exceed local environmental health, fire and safety codes and regulations. Any issue, design or standard of manufacture found to not meet these codes and regulations shall be brought to the attention of the architect and/or project manager before proceeding with the work.
13. All equipment must be NSF approved.

Schedule of drawings referenced in this document:

2FS1.0	Foodservice Equipment Title Page
2FS2.0	Foodservice Equipment Plan & Schedule
2FS3.0	Foodservice Plumbing Plan
2FS4.0	Foodservice Electrical Plan
2FS5.0	Foodservice Special Conditions
2FS6.0	Foodservice Equipment Ventilation and Refrigeration Plan
2FS7.0	Standard Details for Foodservice Equipment
2H-1	Hood Drawing

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET

City Submittal Set
08.08.17

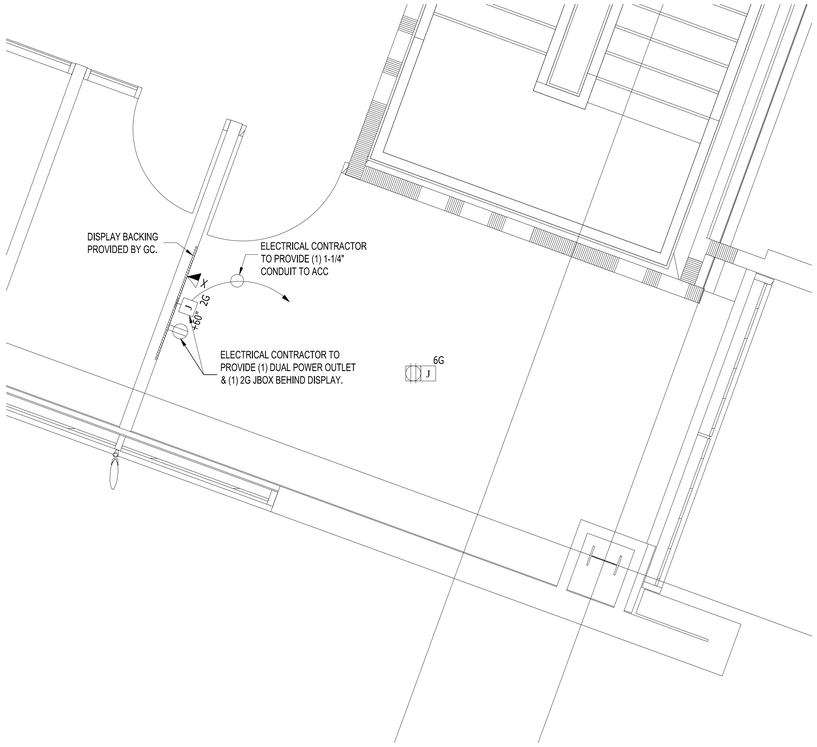
Sheet Title

Food Service Equipment
Title Page
Scale: N.T.A.

Sheet No.

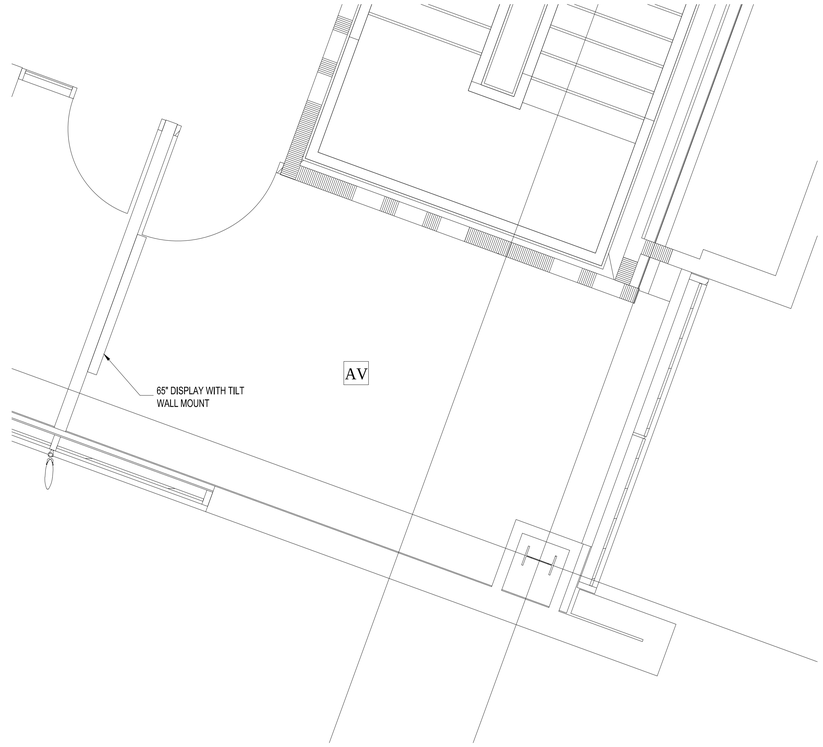
2FS1.0

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



CONFERENCE ROOM 488
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 488
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

7/26/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

BI GENE THEORY
CP-2

TERM
SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 488
AV PLAN

Sheet No.

2TA-343

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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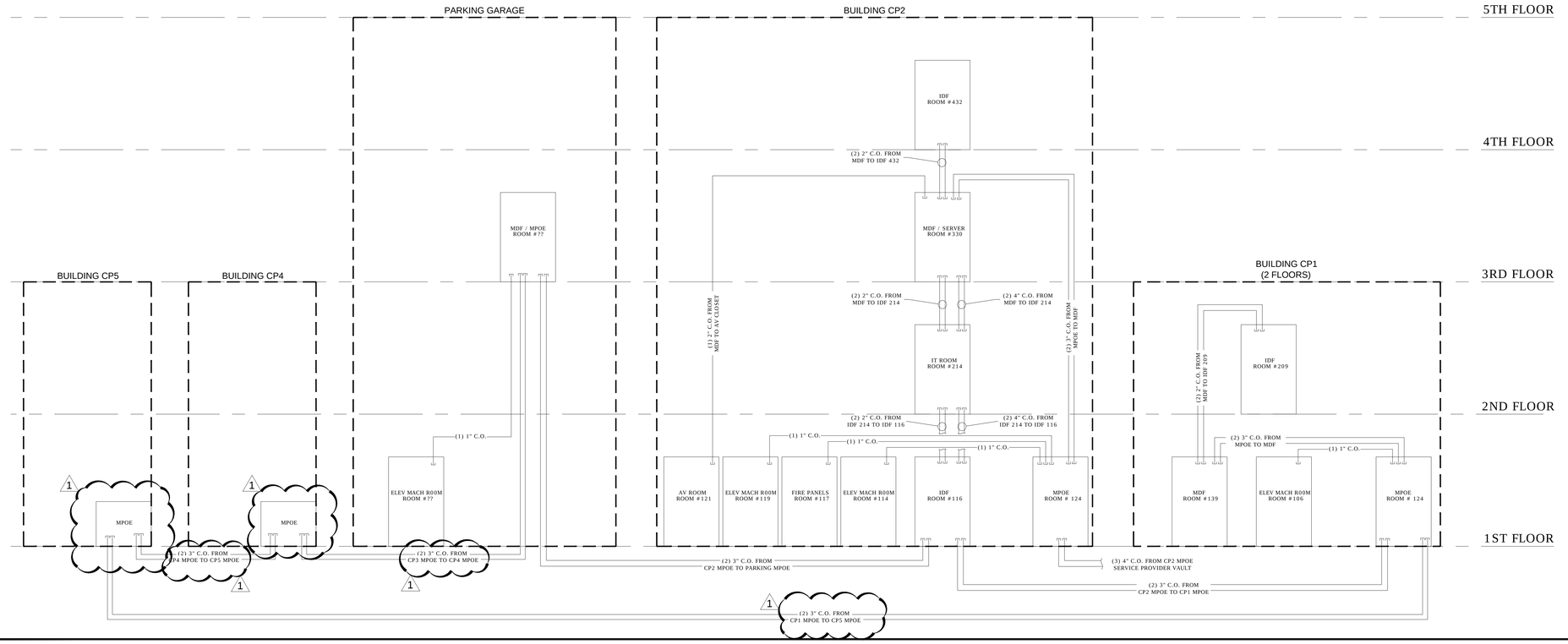
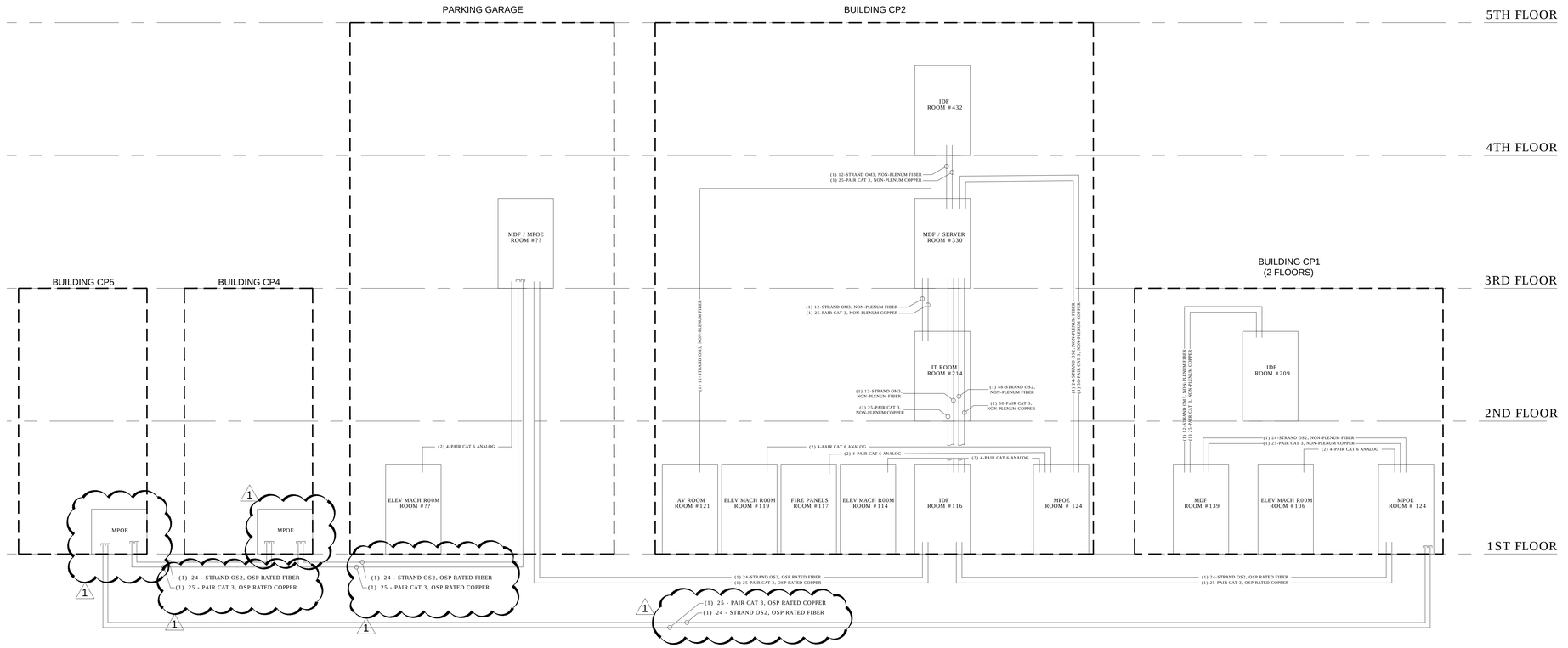


SINGLE LINE DIAGRAM
CONDUIT BACKBONE

1



SINGLE LINE DIAGRAM
FIBER AND COPPER BACKBONE

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.

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TERM 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

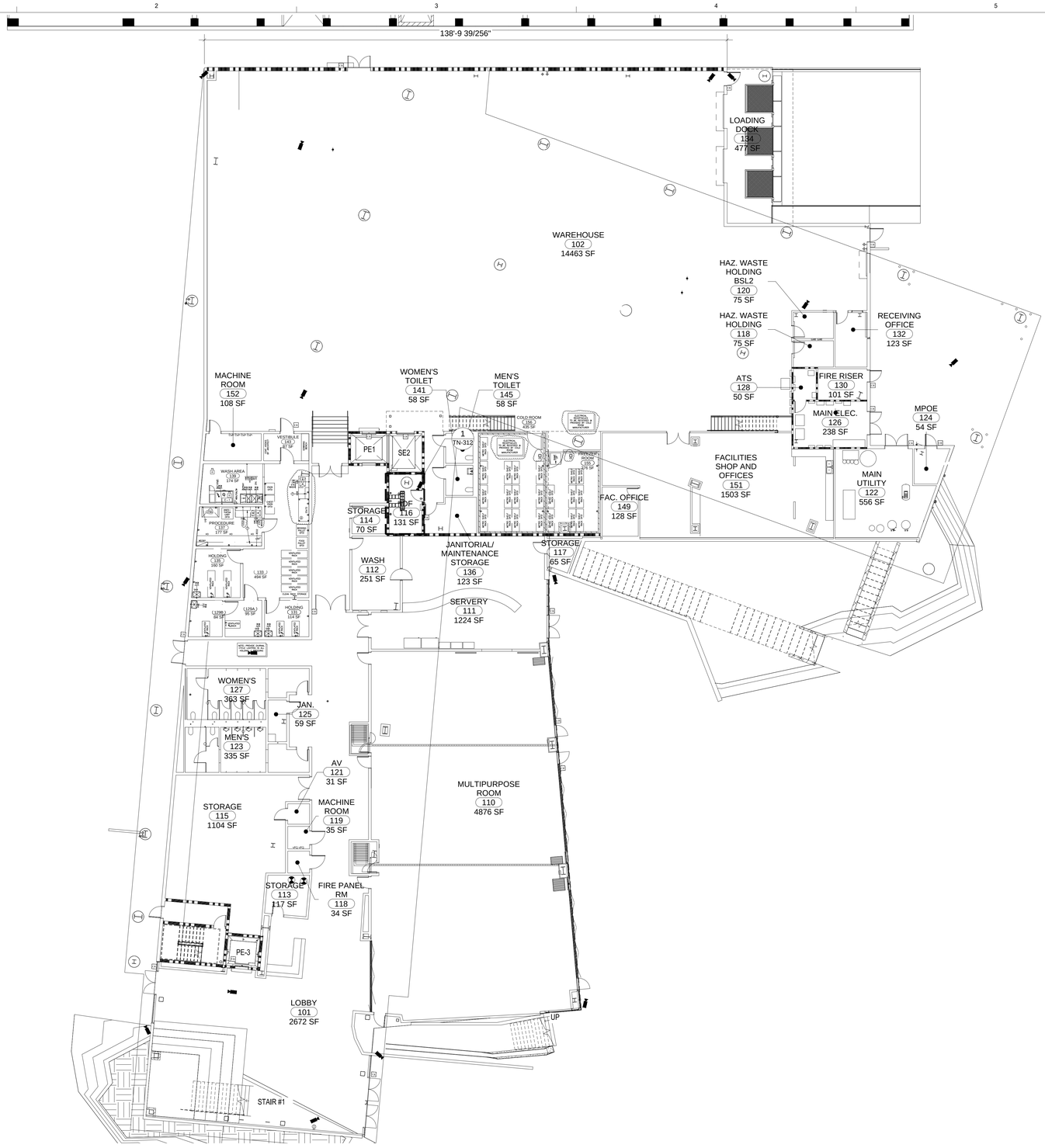
REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
BACKBONE
SINGLE LINE

Sheet No.
2TN-500

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



KEY NOTES:

1 SERVER ROOM, SEE PAGE TN-312 FOR ENLARGED VIEW

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ALL EXTERIOR EQUIPMENT WILL REQUIRE A 1" PENETRATION WITH A 3" RISE FROM EXTERIOR TO INTERIOR.
5. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

CP2 1ST FLOOR SECURITY PLAN

SCALE: 10' 20'

1

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CP-2

TERM 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL SECURITY PLAN

Sheet No.

2TY-210

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ALL EXTERIOR EQUIPMENT WILL REQUIRE A 1" PENETRATION WITH A 3" RISE FROM EXTERIOR TO INTERIOR.
5. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

CP2 2ND FLOOR SECURITY PLAN

SCALE: 10' 20'

1

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CP-2

TERM 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL SECURITY PLAN

Sheet No.

2TY-220

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

7/26/2017 4:14:23 PM



KEY NOTES:

1 MDF, SEE PAGE TN-313 FOR ENLARGED VIEW

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ALL EXTERIOR EQUIPMENT WILL REQUIRE A 1" PENETRATION WITH A 3" RISE FROM EXTERIOR TO INTERIOR.
5. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

CP2 3RD FLOOR SECURITY PLAN

SCALE: 10' 20'

1

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CP-2

TERN 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL SECURITY PLAN

Sheet No.

2TY-230

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



KEY NOTES:

1 IDF, SEE PAGE TN-314 FOR ENLARGED VIEW

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ALL EXTERIOR EQUIPMENT WILL REQUIRE A 1" PENETRATION WITH A 3" RISE FROM EXTERIOR TO INTERIOR.
5. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

CP2 4TH FLOOR
SECURITY PLAN

SCALE: 10' 20'

1

7/26/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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CP-2

TERM 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL SECURITY PLAN

Sheet No.

2TY-240

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

TECHNOLOGY

SHEET INDEX

GENERAL

T-000 TECHNOLOGY TITLE SHEET

INFRASTRUCTURE PLANS

TN-100 CAMPUS SITE PLAN

TN-221 CP2 1ST FLOOR OVERALL SIGNAL PLAN
TN-222 CP2 2ND FLOOR OVERALL SIGNAL PLAN
TN-223 CP2 3RD FLOOR OVERALL SIGNAL PLAN
TN-224 CP2 4TH FLOOR OVERALL SIGNAL PLAN

TN-500 BACKBONE SINGLELINE
TN-321 CP2 ENLARGED 1ST FLOOR IDF ROOM
TN-322 CP2 ENLARGED 2ND FLOOR IDF ROOM
TN-323 CP2 ENLARGED 3RD FLOOR MDF ROOM
TN-324 CP2 ENLARGED 4TH FLOOR IDF ROOM
TN-500 BACKBONE SINGLE LINE
TN-600 FACEPLATE DETAILS
TN-700 MOUNTING DETAILS

SECURITY PLANS

TY-221 CP2 1ST FLOOR SECURITY PLAN
TY-222 CP2 2ND FLOOR SECURITY PLAN
TY-223 CP2 3RD FLOOR SECURITY PLAN
TY-224 CP2 4TH FLOOR SECURITY PLAN

TY-700 MOUNTING DETAILS

GENERAL NOTES

1. THESE PLANS ARE TO BE USED IN ADDITION TO THE ARCHITECTURAL AND ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR FINAL WALL TYPES AND ORIENTATION, ALSO REFER TO THE ELECTRICAL DRAWINGS FOR FINAL POWER RECEPTACLE LOCATIONS.
2. PROVIDE AND INSTALL CATEGORY 6, PLENUM RATED, CABLE ORIGINATING FROM THE DESIGNATED SERVER ROOM AS SHOWN ON THE DRAWINGS.
3. ALL CABLES WILL BE INSTALLED IN ACCORDANCE WITH CURRENT ANSI/TIA/EIA AND BICSI STANDARDS. CABLES WILL ALSO BE INSTALLED IN COMPLIANCE WITH THE CABLE MANUFACTURER'S INSTALLATION RECOMMENDATIONS INCLUDING PULLING TENSION AND CABLE BEND RADIUS.
4. CABLES WILL BE RUN IN THE MOST DIRECT AVAILABLE PATHWAY IN NON-SPLICED SEGMENTS, WITH NO SINGLE RUN EXCEEDING 295 FEET IN LENGTH.
5. EACH CABLE WILL HAVE A 10 FOOT SERVICE LOOP AT THE TR AND A 1 FOOT SERVICE LOOP AT THE WORKSTATION UNLESS OTHERWISE SPECIFIED.
6. CABLES WILL BE RUN IN THE ABOVE-CEILING SPACE AND WILL BE SUSPENDED INDEPENDENTLY FROM OTHER BUILDING SYSTEMS VIA PROVIDED CABLE TRAY PATHWAY AND/OR J-HOOK PATHWAY PROVIDED BY SCC.
7. ADEQUATE DISTANCE ABOVE THE CEILING GRID AND AWAY FROM ELECTRICAL, MECHANICAL, AND PLUMBING SYSTEMS WILL BE MAINTAINED.
8. WALL MOUNTED LOCATIONS WILL BE MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
9. EC TO PROVIDE A SINGLE GANG RING AND STRING FOR EVERY WALL LOCATION UNLESS OTHERWISE NOTED.
10. CABLES WILL BE ROUTED FROM THE ABOVE-CEILING SPACE TO THE WORKSTATION IN PROVIDED CONDUIT PATHWAY. COORDINATE CONDUIT REQUIREMENTS PRIOR TO INSTALLATION. RING AND STRING WITHOUT A CONDUIT FROM THE ABOVE CEILING SPACE TO HARD WALL LOCATIONS WILL BE ACCEPTABLE PROVIDED THE PULL STRING PULLS FREELY AND DOES NOT CROSS ANY STUD EXCEPT A PRE-PENETRATED TOP CAP STUD WITH PROTECTIVE GROMMET.
11. PROVIDE FIRE SEALANT AT ALL FIRE PENETRATIONS.
12. EC TO PROVIDE GROUNDING BUSBARS IN ALL TELECOM ROOM. EACH TELECOM BUSBAR SHALL BE CONNECTED TO THE MAIN BUILDING GROUND. STRUCTURED CABLING CONTRACTOR TO MAKE FINAL GROUND CONNECTION FROM TELECOM BUSBAR TO EQUIPMENT.
13. ALL GANG MUD-RINGS PROVIDED BY EC FOR AUDIO/VISUAL INFRASTRUCTURE ARE REQUIRED TO HAVE SHARP CORNERS. NO MUD-RINGS WITH ROUNDED CORNERS WILL BE AUTHORIZED.

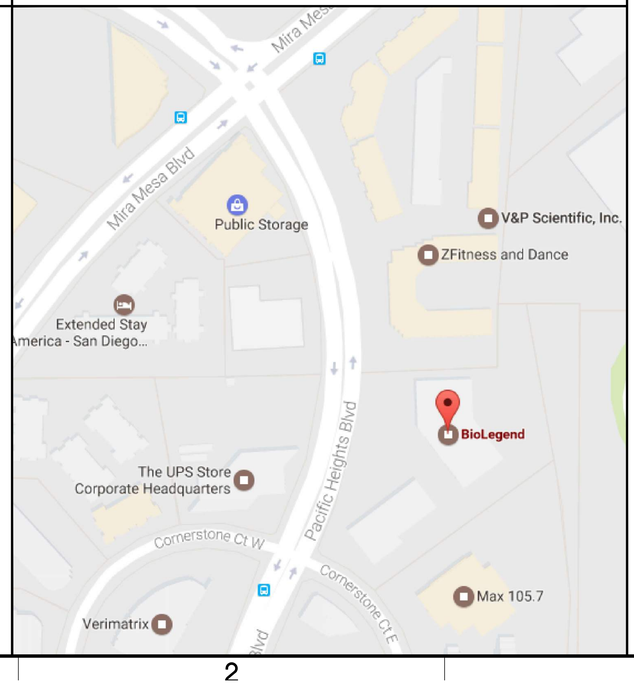
TECHNOLOGY SYMBOL LIST

SYMBOL	DESCRIPTION	CABLES	JACK COLORS	FACEPLATE	MOUNTING AFF (UON)	INFRASTRUCTURE PROVIDED BY OTHERS	COMMENTS
WP	WALL PHONE THERMOSTAT	(2) BLUE CAT6 CABLES	(2) WHITE	2-PORT FACEPLATE	48"	1-GANG RING AND STRING 1-GANG RING AND STRING	
X	2 CABLE WALL LOCATION	(X) BLUE CAT6 CABLES	(2) WHITE	2-PORT FACEPLATE	18"	1-GANG RING AND STRING	
X	2 CABLE FLOOR LOCATION	(X) BLUE CAT6 CABLES	(2) WHITE (2) BLANK	4-PORT 106 ADAPTER	FLOOR	ELEC/DATA FLOOR BOX WITH 1-1/4" CO. TO AAC	
X	2 CABLE FURNITURE LOCATION	(X) BLUE CAT6 CABLES	(2) WHITE (2) BLANK	4-PORT FURN PLATE	KICK PLATE	1-1/4" FURNITURE FEED OR POWER POLE	FEED LOCATIONS SHOULD BE LOCATED ON IDF SIDE
	WIRELESS ACCESS POINT	(1) BLUE CAT6 CABLE	(1) WHITE	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	COILED ADDITIONAL 20' SERVICE LOOP
X	COILED CABLES	(X) BLUE CAT6 CABLE	(1) WHITE	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	COILED ADDITIONAL 20' SERVICE LOOP
EP / EP	ANALOG LINE	(1) BLUE CAT6 CABLE	(1) WHITE	1-PORT FACEPLATE WITH MOUNT LUGS	48"	1-GANG RING AND STRING	
	IP CAMERA	(1) BLUE CAT6 CABLE	(1) WHITE (1) BLANK	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	INFRASTRUCTURE ONLY NEEDED IF LOCATED IN INACCESSIBLE AREA
	EXISTING IP CAMERA	(1) BLUE CAT6 CABLE	(1) WHITE (1) BLANK	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	INFRASTRUCTURE ONLY NEEDED IF LOCATED IN INACCESSIBLE AREA
CR	CARD READER	(1) COMPOSITE CABLE			46"	1" CONDUIT TO AAC	SEE DETAIL SHEETS FOR MORE INFORMATION
C	CONTACT	(1) 22/4 WIRE			ABOVE OPENING	AS REQUIRED	

ABBREVIATIONS

AAC - ABOVE ACCESSIBLE CEILING
AFF - ABOVE FINISHED FLOOR
AVC - AUDIO VISUAL CONTRACTOR
CL - CENTER LINE
DIA - DIAMETER
DIM - DIMENSION
DR - DOOR
(E) - EXISTING
EC - ELECTRICAL CONTRACTOR
E.C. - EMPTY CONDUIT
EL - ELEVATION
ELEC - ELECTRICAL
EQ - EQUAL
FL - FLOOR LEVEL
FUT - FUTURE
GC - GENERAL CONTRACTOR
MISC - MISCELLANEOUS
NIC - NOT IN CONTRACT
NTS - NOT TO SCALE
OC - ON CENTER
OD - OUTER DIAMETER
OFCI - OWNER FURNISHED, CONTRACTOR INSTALLED
OFE - OWNER FURNISHED EQUIPMENT
OFOI - OWNER FURNISHED, OWNER INSTALLED
RCP - REFLECTED CEILING PLAN
SCC - STRUCTURED CABLING CONTRACTOR
SECT - SECTION
TBD - TO BE DETERMINED
TYP - TYPICAL
UON - UNLESS OTHERWISE NOTED
VIF - VERIFY IN FIELD

VICINITY MAP



#	REVISIONS:	DATE:
1	INITIAL SC SETU	2017
2	100% DD SET	4-25-2017

GENE THEORY

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

BICSI RCDD APPROVED

CUSTOMER:
GENE THEORY -CP-2

SHEET TITLE:
TECHNOLOGY
TITLE SHEET

PLOT DATE 9/9/16
DRAWN BY Kparker
SCALE AS NOTED

CUSTOMER APPROVAL:
INITIALS DATE

T-000

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002



KEY NOTES:

1 UNDERGROUND CONDUITS FOR LOW VOLTAGE. SEE SHEET TN-500 FOR EXACT QUANTITIES OF CONDUITS BETWEEN BUILDINGS

CAMPUS SITE PLAN

SCALE: 30' 60'

1

GENERAL N

1. ALL CONDUITS, BAC REQUIREMENTS WI CONTRACTOR.
2. ALL CONDUITS WILL

#	REVISIONS:	DATE:
1	INITIAL SC SETU	2017
2	100% DD SET	4-25-2017

GENE THEORY

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

BICSI RCDD APPROVED

CUSTOMER:

GENE THEORY -CP-2

SHEET TITLE:

CAMPUS SITE PLAN

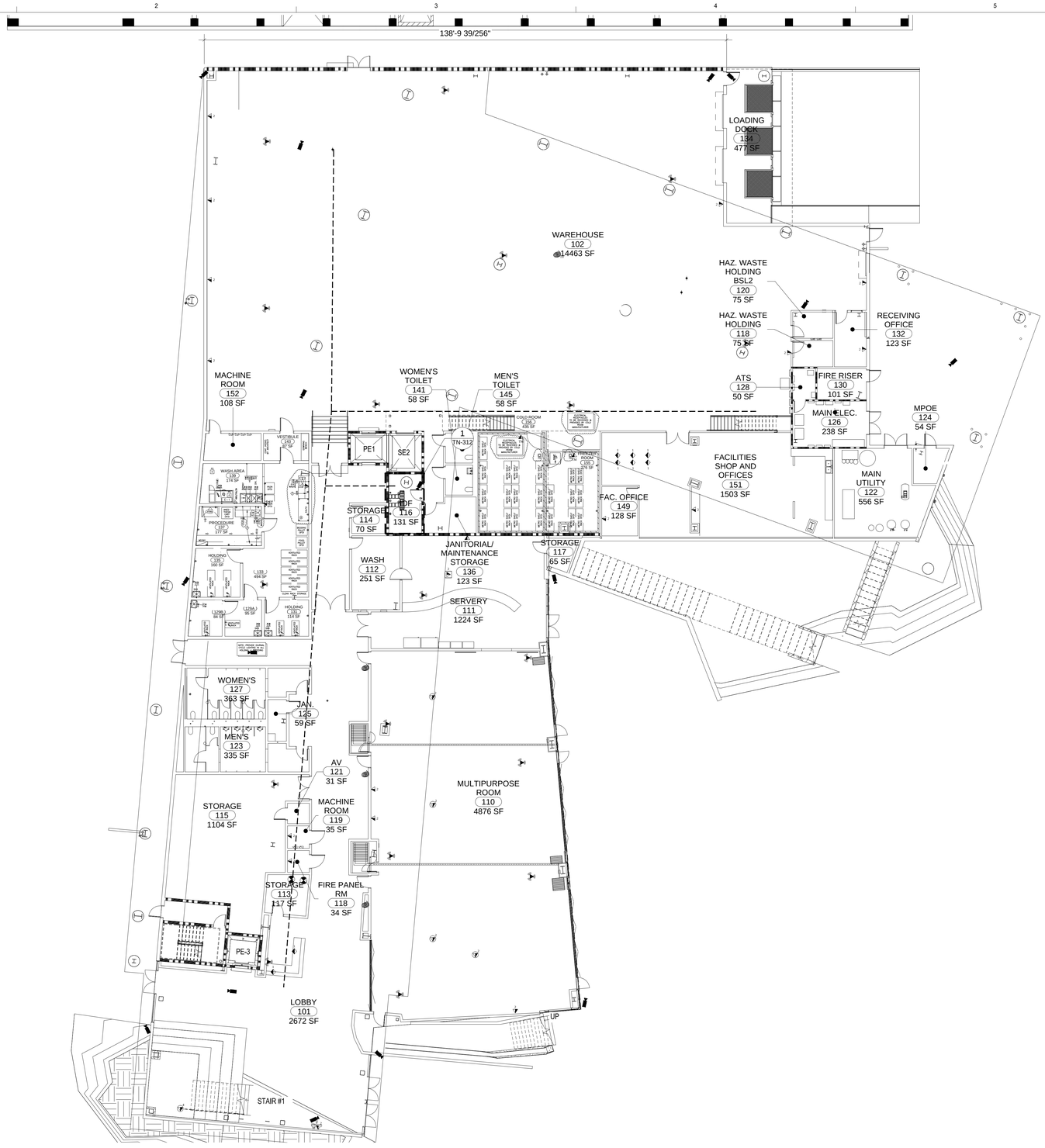
PLOT DATE
DRAWN BY
SCALE AS NOTED

CUSTOMER APPROVAL:

INITIALS DATE

TN-100

DPR Issued Sheet 2017-25-04
Link to Sheet Index - ZG-002



GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ALL EXTERIOR EQUIPMENT WILL REQUIRE A 1" PENETRATION WITH A 3" RISE FROM EXTERIOR TO INTERIOR.
5. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.
6. SEE SHEET TN-600 FOR FACEPLATE DETAILS.
7. CABLE PATHWAYS ARE REPRESENTED BY THE THICK DASHED LINE, THEY ARE SHOWN FOR REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED.

KEY NOTES:

1. SERVER ROOM, SEE PAGE TN-312 FOR ENLARGED VIEW
2. (2) 4" CONDUITS FOR HORIZONTAL CABLE PASS THRU

CP2 1ST FLOOR OVERALL SIGNAL PLAN

SCALE: 10' 20'

1

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

BI GENE THEORY
CP-2

TERN 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
1ST FLOOR OVERALL SIGNAL PLAN

Sheet No.
2TN-210

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT.

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GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
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6. SEE SHEET TN-600 FOR FACEPLATE DETAILS.
7. CABLE PATHWAYS ARE REPRESENTED BY THE THICK DASHED LINE, THEY ARE SHOWN FOR REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED.

KEY NOTES:

1. IDF, SEE PAGE TN-322 FOR ENLARGED VIEW
2. (2) 4" CONDUITS FOR HORIZONTAL CABLE PASS THRU

CP2 2ND FLOOR OVERALL SIGNAL PLAN

SCALE: 10' 20'

1

BI GENE THEORY
CP-2

TERM
SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

2ND FLOOR OVERALL SIGNAL PLAN

Sheet No.

2TN-220



GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
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5. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.
6. SEE SHEET TN-600 FOR FACEPLATE DETAILS.
7. CABLE PATHWAYS ARE REPRESENTED BY THE THICK DASHED LINE, THEY ARE SHOWN FOR REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED.

KEY NOTES:

1. MDF, SEE PAGE TN-313 FOR ENLARGED VIEW
2. (2) 4" CONDUITS FOR HORIZONTAL CABLE PASS THRU

CP2 3RD FLOOR OVERALL
SIGNAL PLAN

SCALE: 10' 20'

1

BI GENE THEORY
CP-2

TERM 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
3RD FLOOR OVERALL SIGNAL PLAN

Sheet No.
2TN-230

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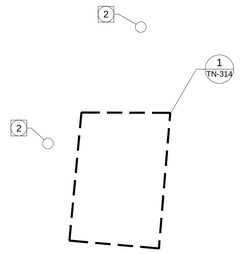
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

7/26/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



GENERAL NOTES:

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6. SEE SHEET TN-600 FOR FACEPLATE DETAILS.
7. CABLE PATHWAYS ARE REPRESENTED BY THE THICK DASHED LINE. THEY ARE SHOWN FOR REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED.

KEY NOTES:

1. IDF, SEE PAGE TN-314 FOR ENLARGED VIEW
2. (2) 4" CONDUITS FOR HORIZONTAL CABLE PASS THRU

CP2 4TH FLOOR OVERALL SIGNAL PLAN

SCALE: 10' 20'

1

BI GENE THEORY
CP-2

TERM
SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

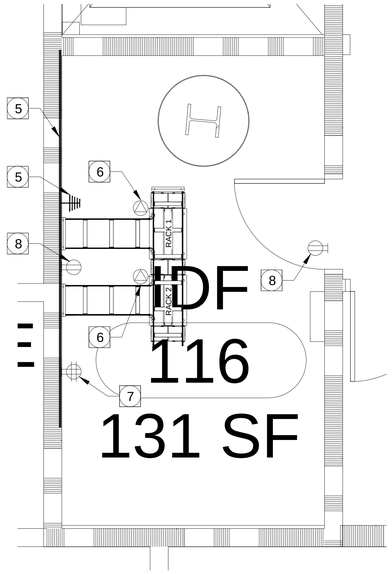
4TH FLOOR OVERALL SIGNAL PLAN

Sheet No.

2TN-240

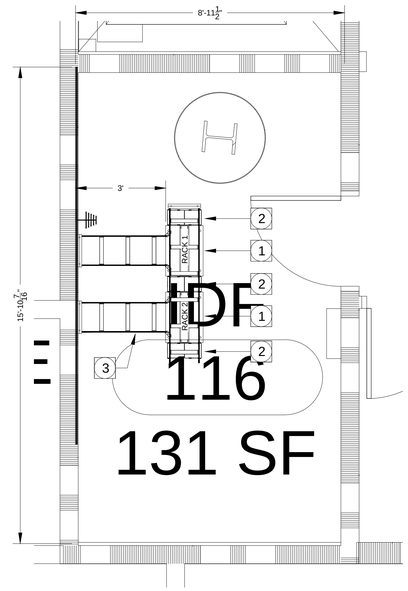
DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

7/26/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



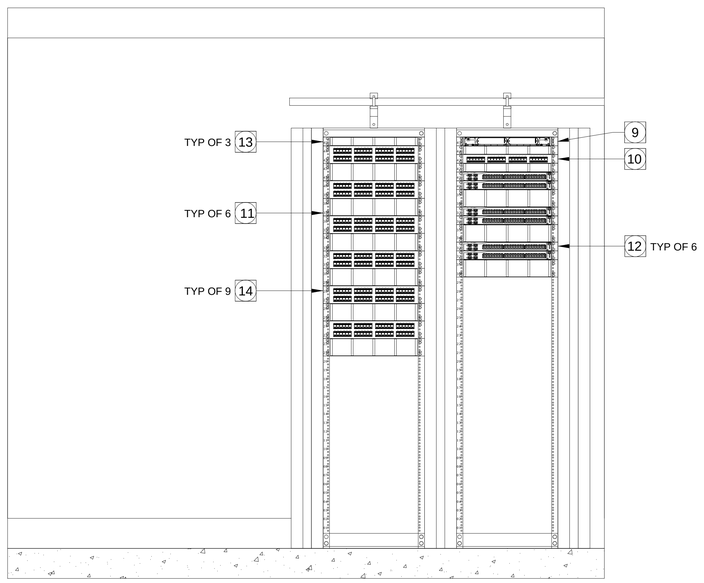
CP2 1ST FLOOR IDF ROOM 116 - PLAN VIEW
INFRASTRUCTURE REQUIREMENTS
SCALE: 1/2"=1'-0" @ 42"X30"

1



CP2 1ST FLOOR IDF ROOM 116 - PLAN VIEW
EQUIPMENT LAYOUT
SCALE: 1/2"=1'-0" @ 42"X30"

2



CP2 1ST FLOOR IDF ROOM 116 - ELEVATION VIEW
FRONT OF RACK AND CABINET
SCALE: 1"=1'-0" @ 42"X30"

3

KEY NOTES:

1. 2-POST 7'H STANDARD EQUIPMENT RACK
2. 7'H x 6"W DOUBLE SIDED VERTICAL CABLE MANAGER
3. 12" LADDER RACK MOUNTED @ 7'-6" AFF USING 6" ELEVATION KIT ABOVE 2-POST RACK AND 12" ELEVATION KIT ABOVE CABINET
4. GROUNDING BUSBAR (PROVIDED BY EC).
5. ¾" FIRE RATED PLYWOOD BACKBOARD (PROVIDED BY GC)
6. SPECIALTY OUTLET CONNECTED TO EMERGENCY POWER. OUTLET TO MOUNTED TO LADDER RACK AND PROVIDED BY THE EC.
7. DEDICATED 5-20 QUAD RECEPTACLE FOR SECURITY EQUIPMENT MOUNTED AT 48" AFF (PROVIDED BY EC)
8. 5-20 DUPLEX RECEPTACLE FOR CONVENIENCE 18" AFF (PROVIDED BY EC)
9. 1U FIBER ENCLOSURE FOR FIBER BACKBONE FROM CP1 MDF ON 1ST FLOOR
10. 1U, 24-PORT PATCH PANEL FOR 25-PAIR COPPER MULTI-PAIRCABLE FOR VOICE BACKBONE. CABLE TO BE TERMINATED 1 PAIR PER PORT USING PINS 4 & 5
11. 2U, 48-PORT PATCH PANEL FOR STATION CABLING
12. CUSTOMER PROVIDED NETWORK SWITCHES
13. 1U, HORIZONTAL WIRE MANAGER
14. 2U, HORIZONTAL WIRE MANAGER

GENERAL NOTES:

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2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.

BI GENE THEORY
CP-2

TERM
SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

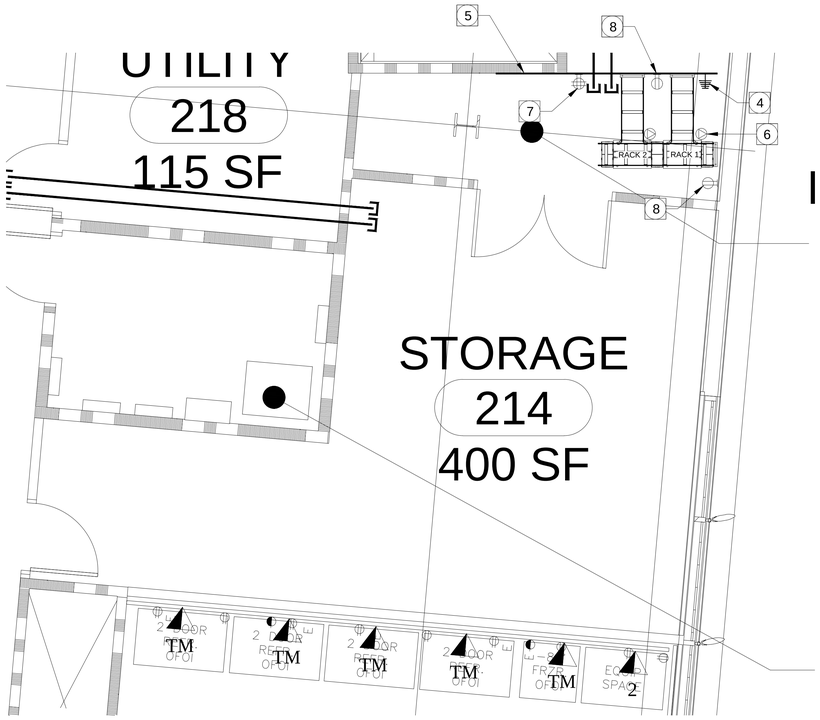
Sheet Title

ENLARGED
1ST FLOOR
IDF ROOM 116

Sheet No.

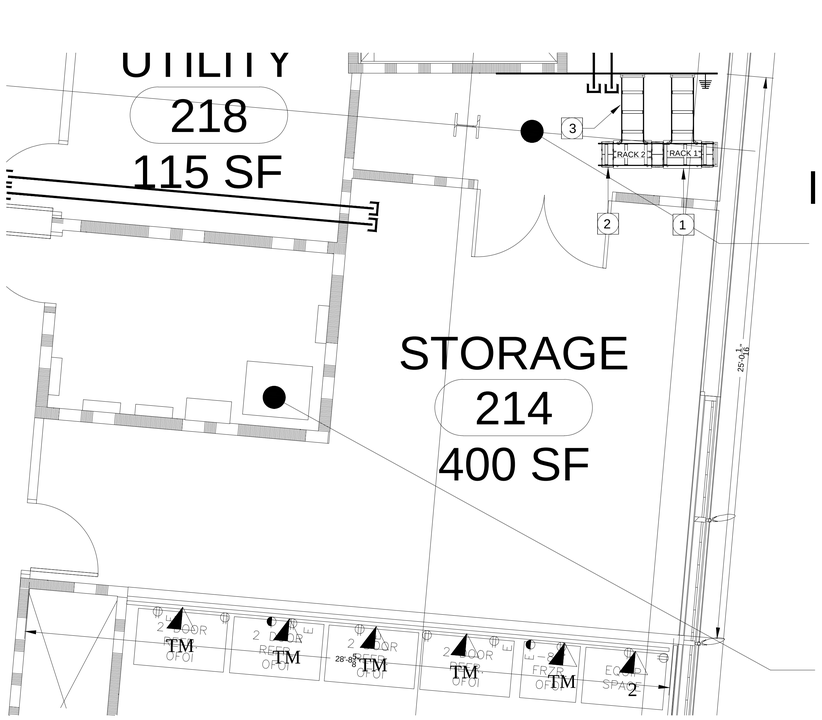
2TN-310

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



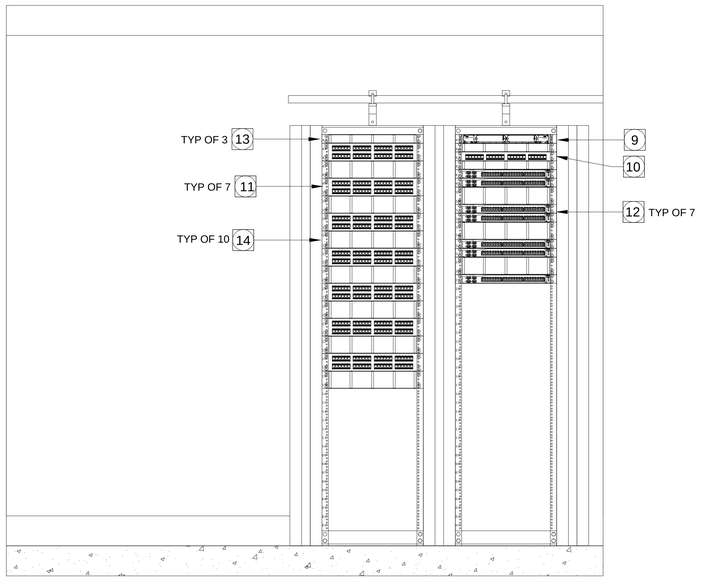
CP2 2ND FLOOR IDF ROOM 214 - PLAN VIEW
INFRASTRUCTURE REQUIREMENTS
SCALE: 3/8"=1'-0" @ 42"X30"

1



CP2 2ND FLOOR IDF ROOM 214 - PLAN VIEW
EQUIPMENT LAYOUT
SCALE: 3/8"=1'-0" @ 42"X30"

2



CP2 2ND FLOOR IDF ROOM 214- ELEVATION VIEW
FRONT OF RACK AND CABINET
SCALE: 1"=1'-0" @ 42"X30"

3

KEY NOTES:

1. 2-POST 7'H STANDARD EQUIPMENT RACK
2. 7'H x 6"W DOUBLE SIDED VERTICAL CABLE MANAGER
3. 12" LADDER RACK MOUNTED @ 7'-6" AFF USING 6" ELEVATION KIT ABOVE 2-POST RACK AND 12" ELEVATION KIT ABOVE CABINET
4. GROUNDING BUSBAR (PROVIDED BY EC).
5. ¾" FIRE RATED PLYWOOD BACKBOARD (PROVIDED BY GC)
6. SPECIALTY OUTLET CONNECTED TO EMERGENCY POWER. OUTLET TO MOUNTED TO LADDER RACK AND PROVIDED BY THE EC.
7. DEDICATED 5-20 QUAD RECEPTACLE FOR SECURITY EQUIPMENT MOUNTED AT 48" AFF (PROVIDED BY EC)
8. 5-20 DUPLEX RECEPTACLE FOR CONVENIENCE 18" AFF (PROVIDED BY EC)
9. 1U FIBER ENCLOSURE FOR FIBER BACKBONE FROM CP2 SERVER ROOM ON 3RD FLOOR
10. 1U, 24-PORT PATCH PANEL FOR 25-PAIR COPPER MULTI-PAIRCABLE FOR VOICE BACKBONE. CABLE TO BE TERMINATED 1 PAIR PER PORT USING PINS 4 & 5
11. 2U, 48-PORT PATCH PANEL FOR STATION CABLING
12. CUSTOMER PROVIDED NETWORK SWITCHES
13. 1U, HORIZONTAL WIRE MANAGER
14. 2U, HORIZONTAL WIRE MANAGER

GENERAL NOTES:

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BI GENE THEORY
CP-2

TERM 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
2ND FLOOR
IDF ROOM 214

Sheet No.

2TN-320

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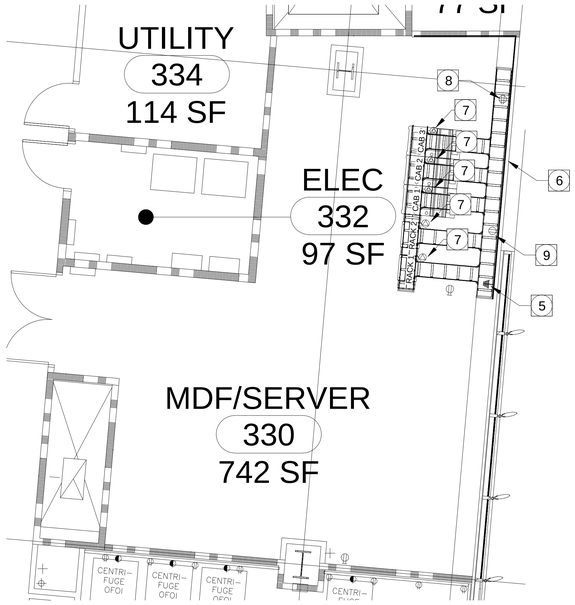
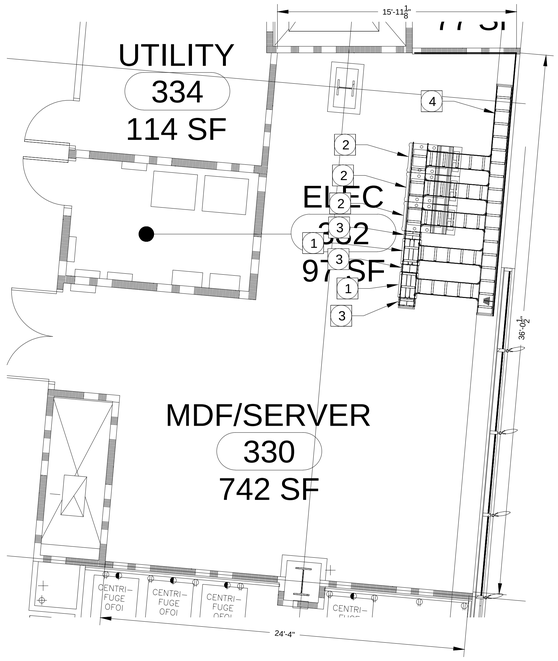


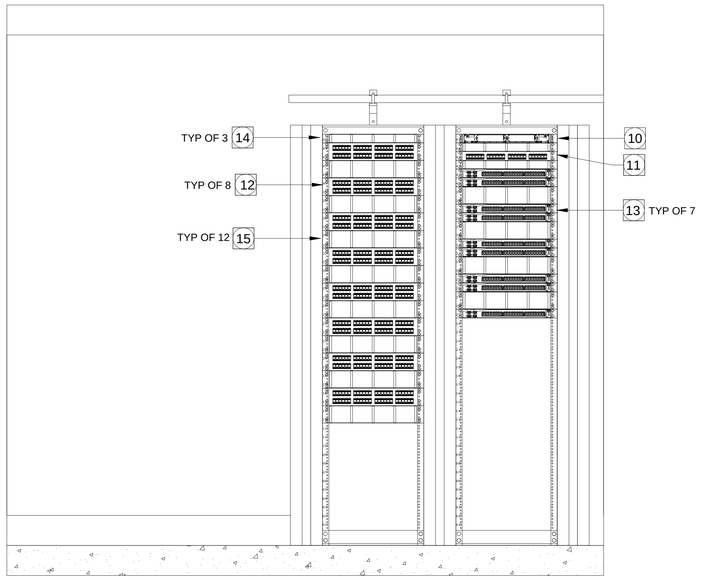
CP2 3RD FLOOR MDF ROOM 330 - PLAN VIEW
INFRASTRUCTURE REQUIREMENTS
SCALE: 1/4"=1'-0" @ 42"X30"

1



CP2 3RD FLOOR MDF ROOM 330 - PLAN VIEW
EQUIPMENT LAYOUT
SCALE: 1/4"=1'-0" @ 42"X30"

2



CP2 3RD FLOOR MDF ROOM 330 - ELEVATION VIEW
FRONT OF RACK AND CABINET
SCALE: 1"=1'-0" @ 42"X30"

3

KEY NOTES:

1. 2-POST 7'H STANDARD EQUIPMENT RACK
2. 42RU x 24"W x 42"D APC CABINET, PART # AR3100
3. 7'H x 6"W DOUBLE SIDED VERTICAL CABLE MANAGER
4. 12" LADDER RACK MOUNTED @ 7'-6" AFF USING 6" ELEVATION KIT ABOVE 2-POST RACK AND 12" ELEVATION KIT ABOVE CABINET
5. GROUNDING BUSBAR (PROVIDED BY EC).
6. ¾" FIRE RATED PLYWOOD BACKBOARD (PROVIDED BY GC)
7. SPECIALTY OUTLET CONNECTED TO EMERGENCY POWER. OUTLET TO MOUNTED TO LADDER RACK AND PROVIDED BY THE EC.
8. DEDICATED 5-20 QUAD RECEPTACLE FOR SECURITY EQUIPMENT MOUNTED AT 48" AFF (PROVIDED BY EC)
9. 5-20 DUPLEX RECEPTACLE FOR CONVENIENCE 18" AFF (PROVIDED BY EC)
10. 1U FIBER ENCLOSURE FOR FIBER BACKBONE FROM CP2 SERVER ROOM ON 3RD FLOOR
11. 1U, 24-PORT PATCH PANEL FOR 25-PAIR COPPER MULTI-PAIRCABLE FOR VOICE BACKBONE. CABLE TO BE TERMINATED 1 PAIR PER PORT USING PINS 4 & 5
12. 2U, 48-PORT PATCH PANEL FOR STATION CABLING
13. CUSTOMER PROVIDED NETWORK SWITCHES
14. 1U, HORIZONTAL WIRE MANAGER
15. 2U, HORIZONTAL WIRE MANAGER

GENERAL NOTES:

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3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.

BI GENE THEORY
CP-2

TERM 1450 VETERANS BLVD
SAN REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title
ENLARGED
3RD FLOOR
MDF ROOM 330

Sheet No.
2TN-330

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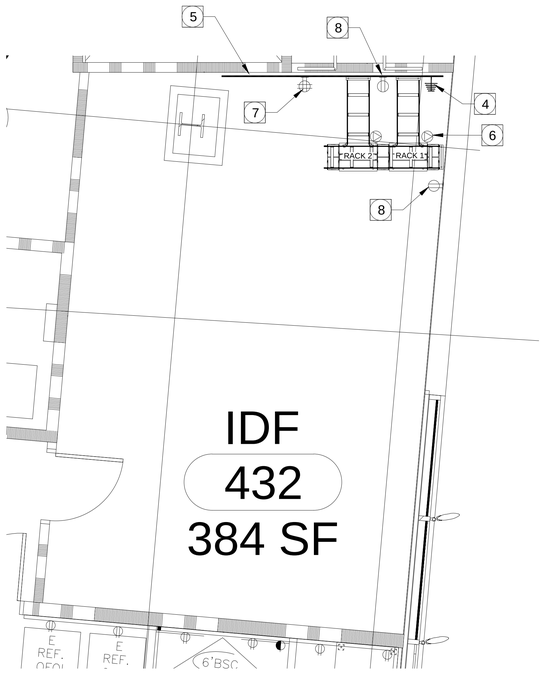
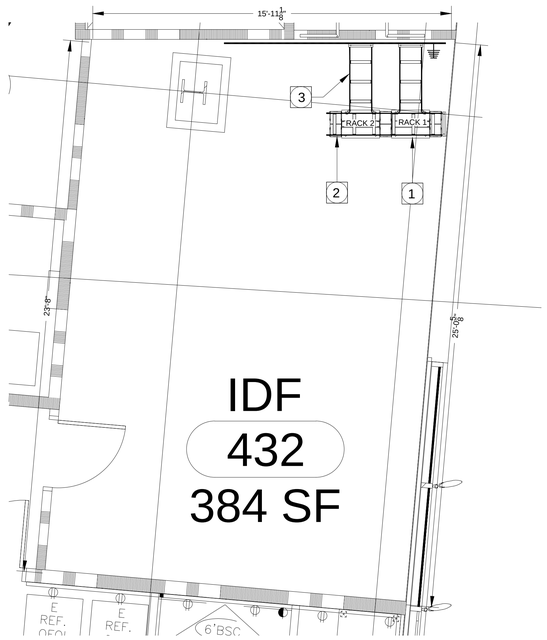


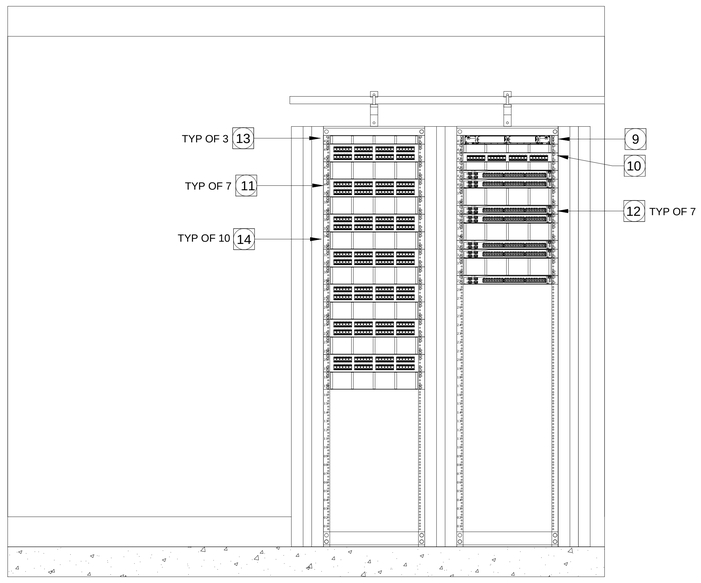
CP2 4TH FLOOR IDF ROOM 432 - PLAN VIEW
INFRASTRUCTURE REQUIREMENTS
SCALE: 3/8"=1'-0" @ 42"X30"

1



CP2 4TH FLOOR IDF ROOM 432 - PLAN VIEW
EQUIPMENT LAYOUT
SCALE: 3/8"=1'-0" @ 42"X30"

2



CP2 4TH FLOOR IDF ROOM 432- ELEVATION VIEW
FRONT OF RACK AND CABINET
SCALE: 1"=1'-0" @ 42"X30"

3

KEY NOTES:

1. 2-POST 7'H STANDARD EQUIPMENT RACK
2. 7'H x 6"W DOUBLE SIDED VERTICAL CABLE MANAGER
3. 12" LADDER RACK MOUNTED @ 7'-6" AFF USING 6" ELEVATION KIT ABOVE 2-POST RACK AND 12" ELEVATION KIT ABOVE CABINET
4. GROUNDING BUSBAR (PROVIDED BY EC).
5. ¾" FIRE RATED PLYWOOD BACKBOARD (PROVIDED BY GC)
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7. DEDICATED 5-20 QUAD RECEPTACLE FOR SECURITY EQUIPMENT MOUNTED AT 48" AFF (PROVIDED BY EC)
8. 5-20 DUPLEX RECEPTACLE FOR CONVENIENCE 18" AFF (PROVIDED BY EC)
9. 1U FIBER ENCLOSURE FOR FIBER BACKBONE FROM CP2 SERVER ROOM ON 3RD FLOOR
10. 1U, 24-PORT PATCH PANEL FOR 25-PAIR COPPER MULTI-PAIRCABLE FOR VOICE BACKBONE. CABLE TO BE TERMINATED 1 PAIR PER PORT USING PINS 4 & 5
11. 2U, 48-PORT PATCH PANEL FOR STATION CABLING
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13. 1U, HORIZONTAL WIRE MANAGER
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3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.

BI GENE THEORY
CP-2

TERN
SAN
1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

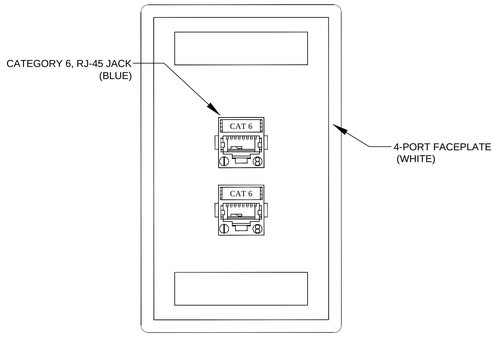
ENLARGED
4TH FLOOR
IDF ROOM 432

Sheet No.

2TN-340

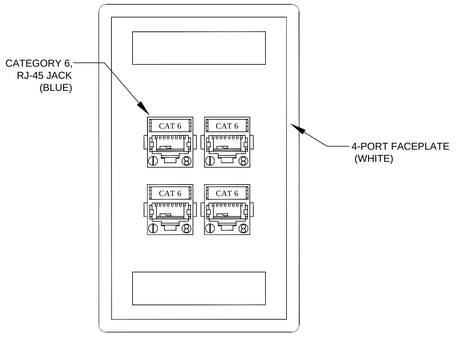
7/26/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

SYMBOL: 2



TYPICAL VOICE/DATA OUTLET
(2) CATEGORY 6 CABLES | 1

SYMBOL: 4



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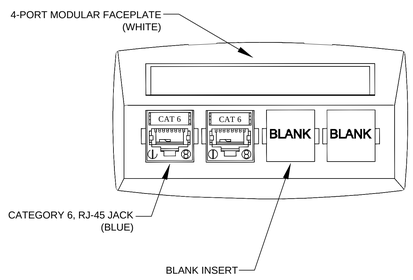
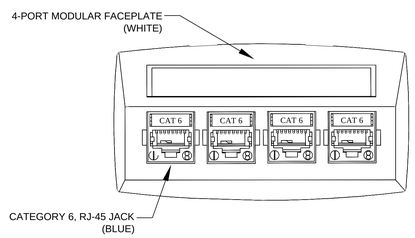
(4) CATEGORY 6 CABLES | 2

SYMBOL: 2



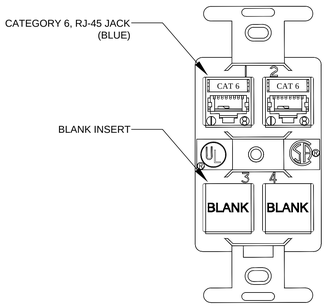
MODULAR FURNITURE OUTLET
(2) CATEGORY 6 CABLES | 3

SYMBOL: 4



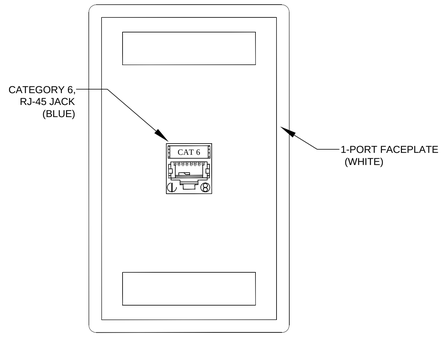
MODULAR FURNITURE OUTLET
(4) CATEGORY 6 CABLES | 4

SYMBOL: 2



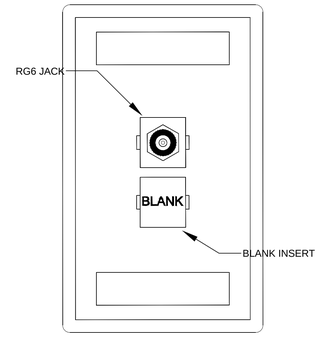
FLUSH TABLE TOP AND FRAME OUTLET
(2) CATEGORY 6 CABLES | 5

SYMBOL: WP



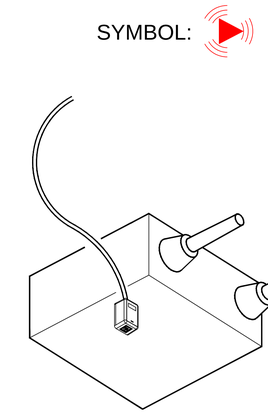
WALL MOUNT VOICE OUTLET | 6

SYMBOL: TV



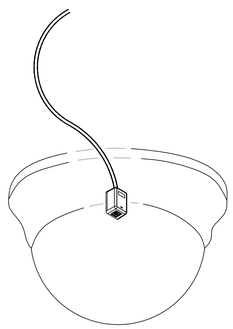
TYPICAL WALL MOUNT TV OUTLET | 7

SYMBOL:

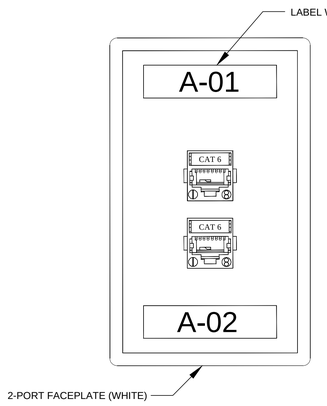


WIRELESS ACCESS POINT OUTLET | 8

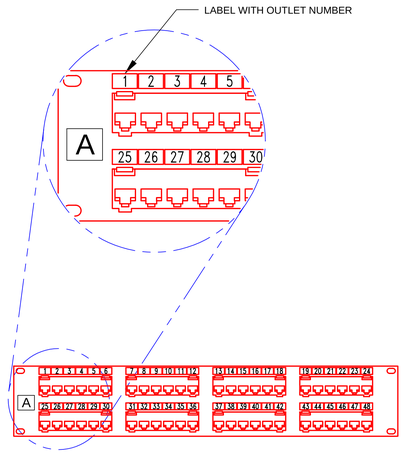
SYMBOL:



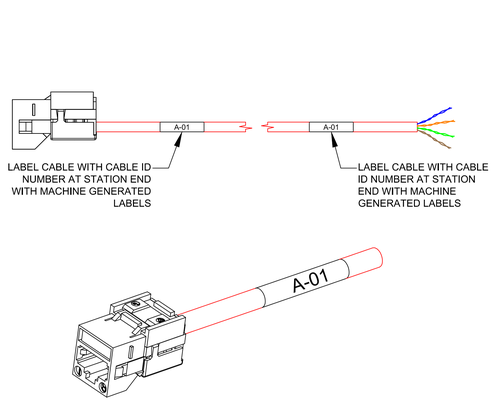
TYPICAL CAMERA | 9



SAMPLE OUTLET LABELING DIAGRAM | 10



SAMPLE PATCH PANEL
LABELING DIAGRAM | 11



SAMPLE CABLE LABELING | 12

TekConnecting DATA VOICE

#	REVISIONS:	DATE:
1	INITIAL SC SETU	2017
2	100% DD SET	4-25-2017

GENE THEORY

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

BICSI RCDD APPROVED

CUSTOMER:
GENE THEORY -CP-2

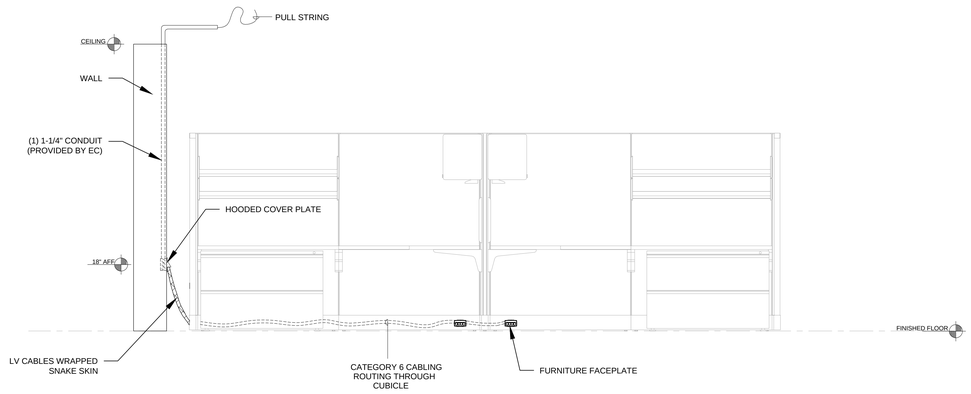
SHEET TITLE:
FACEPLATE DETAILS AND LABELING DIAGRAMS

PLOT DATE
DRAWN BY
SCALE AS NOTED

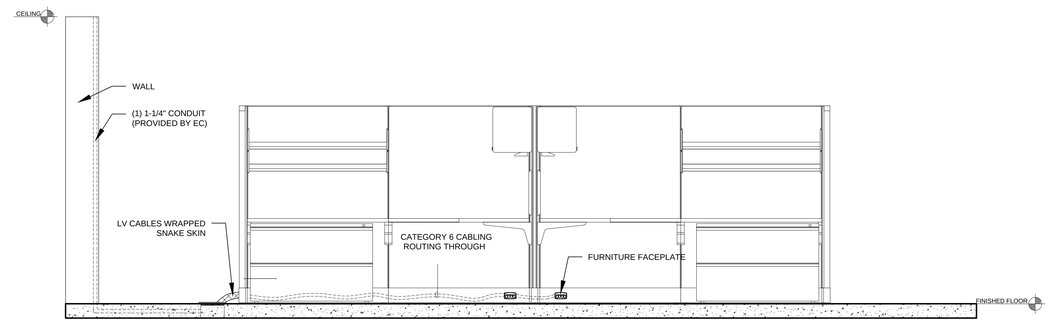
CUSTOMER APPROVAL:
INITIALS DATE

TN-600

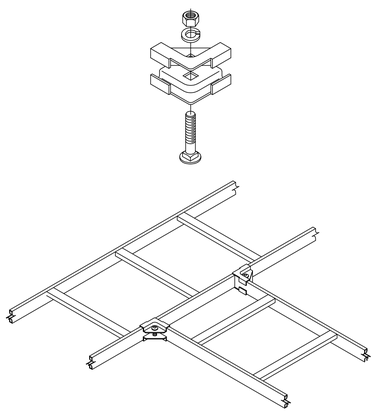
DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002



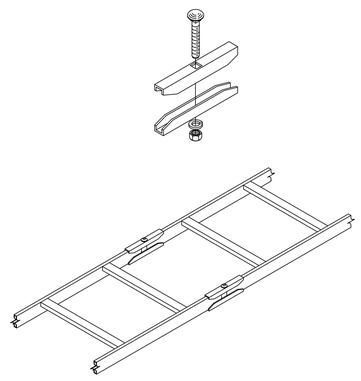
WALL FED CUBICLE ROUTING DETAIL | 1



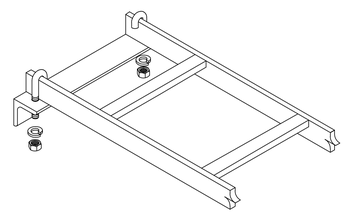
FLOOR FED CUBICLE ROUTING DETAIL | 2



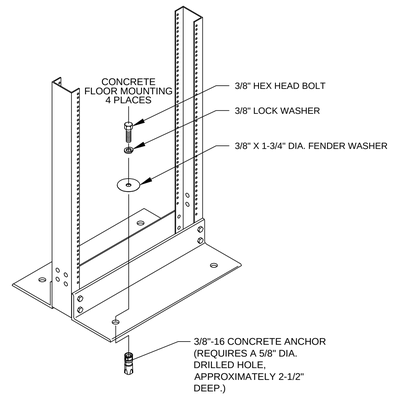
CABLE TRAY JUNCTION-SPLICE KIT | 3



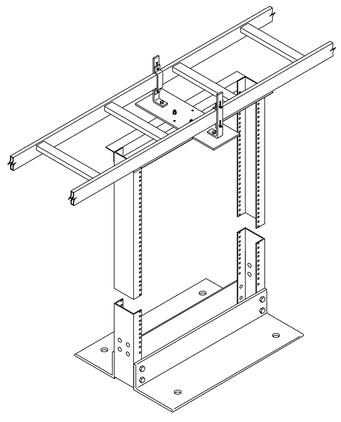
CABLE TRAY BUTT-SPLICE KIT | 4



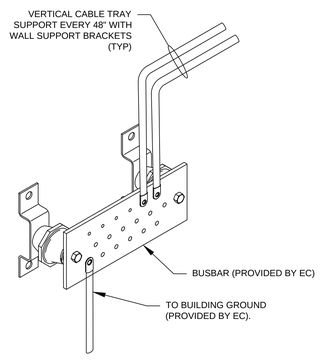
CABLE TRAY WALL ANGLE SUPPORT KIT | 5



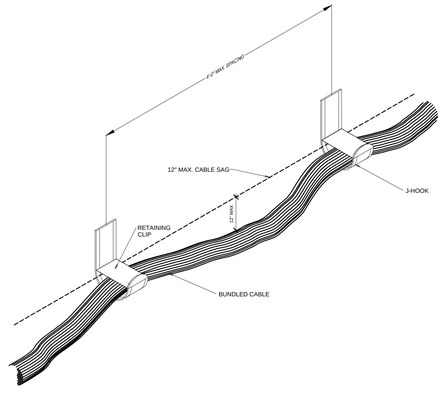
RACK-TO-FLOOR INSTALLATION | 6



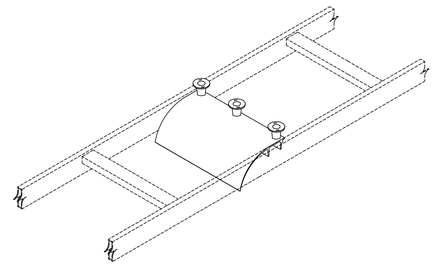
CABLE TRAY ELEVATION KIT | 7



TELECOMMUNICATIONS GROUNDING BUSBAR | 8



J-HOOK DETAIL | 9



CABLE TRAY RUNWAY RADIUS DROP | 10

GENE THEORY

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

BICSI RCDD
APPROVED

CUSTOMER:
GENE THEORY -CP-2

SHEET TITLE:
MOUNTING DETAILS

PLOT DATE
DRAWN BY
SCALE AS NOTED

CUSTOMER APPROVAL:
INITIALS DATE

TN-700

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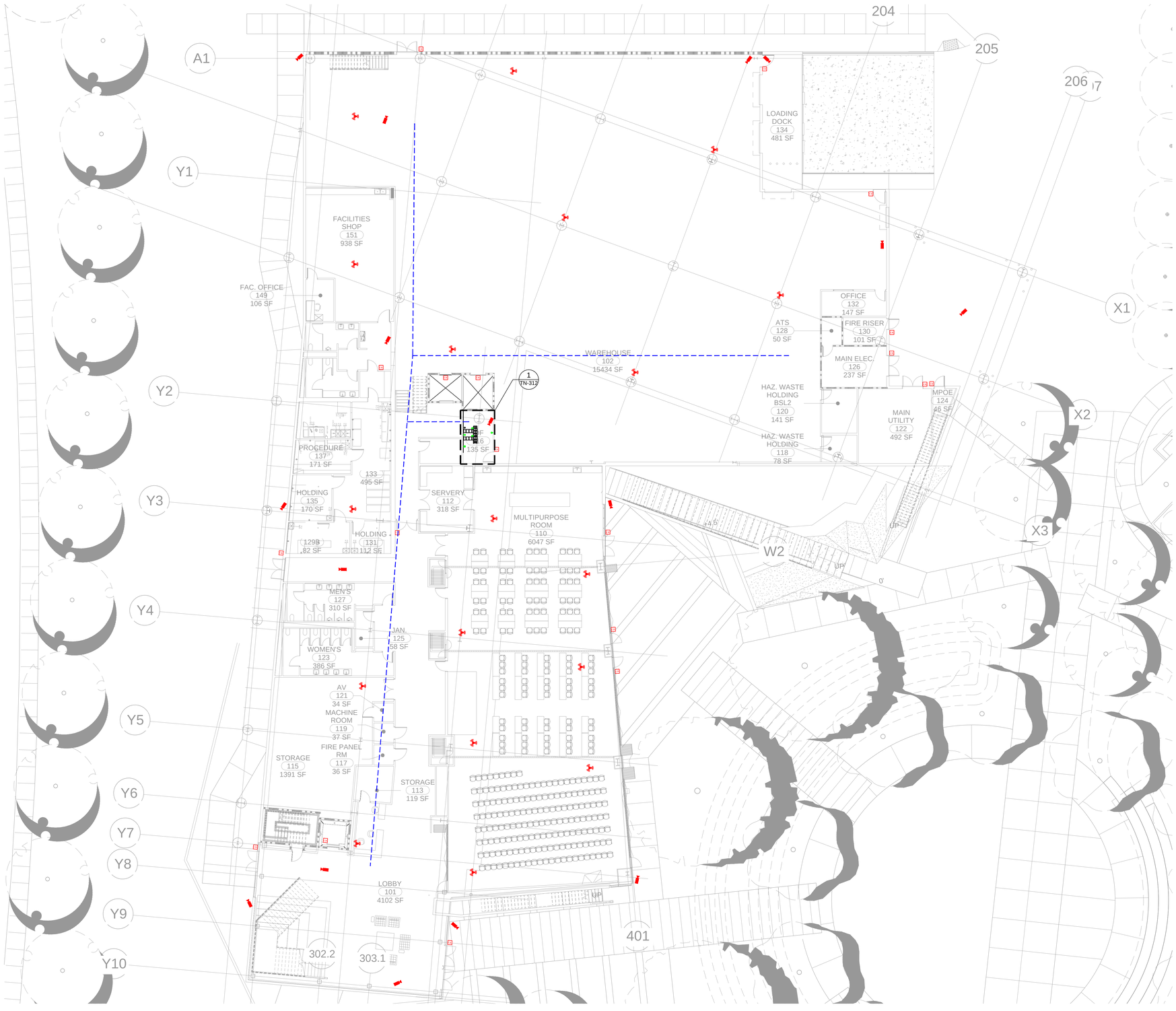

KEY NOTES:

1 SERVER ROOM, SEE PAGE TN-312 FOR ENLARGED VIEW

CP2 1ST FLOOR SECURITY PLAN

SCALE: 10' 20'

1

#	REVISIONS:	DATE:
1	INITIAL SECURIT	2017
2	100% DD SET	4-25-2017

GENE THEORY

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

BICSI RCDD APPROVED

CUSTOMER:

GENE THEORY -CP-2

SHEET TITLE:

CP2 1ST FLOOR SECURITY PLAN

PLOT DATE 9/9/16
DRAWN BY Rcoronado
SCALE AS NOTED

CUSTOMER APPROVAL:
INITIALS DATE

TY-221

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Link to Sheet Index - 2G-002



CP2 2ND FLOOR SECURITY PLAN

SCALE: 10' 20'

1

#	REVISIONS:	DATE:
1	INITIAL SECURIT	2017
2	100% DD SET	4-25-2017

GENE THEORY

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

BICSI RCDD APPROVED

CUSTOMER:

GENE THEORY -CP-2

SHEET TITLE:

CP2 2ND FLOOR SECURITY PLAN

PLOT DATE 9/9/16
DRAWN BY Rcoronado
SCALE AS NOTED

CUSTOMER APPROVAL:

INITIALS DATE

TY-222

DPR Issued Sheet 2017-25-04
Link to Sheet Index - 2G-002



KEY NOTES:

1 MDF, SEE PAGE TN-313 FOR ENLARGED VIEW

CP2 3RD FLOOR SECURITY PLAN

SCALE: 10' 20'

1

#	REVISIONS:	DATE:
1	INITIAL SECURIT	2017
2	100% DD SET	4-25-2017

GENE THEORY

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

BICSI RCDD APPROVED

CUSTOMER:

GENE THEORY -CP-2

SHEET TITLE:

CP2 3RD FLOOR SECURITY PLAN

PLOT DATE 9/9/16
DRAWN BY Rcoronado
SCALE AS NOTED

CUSTOMER APPROVAL:

INITIALS DATE

TY-223

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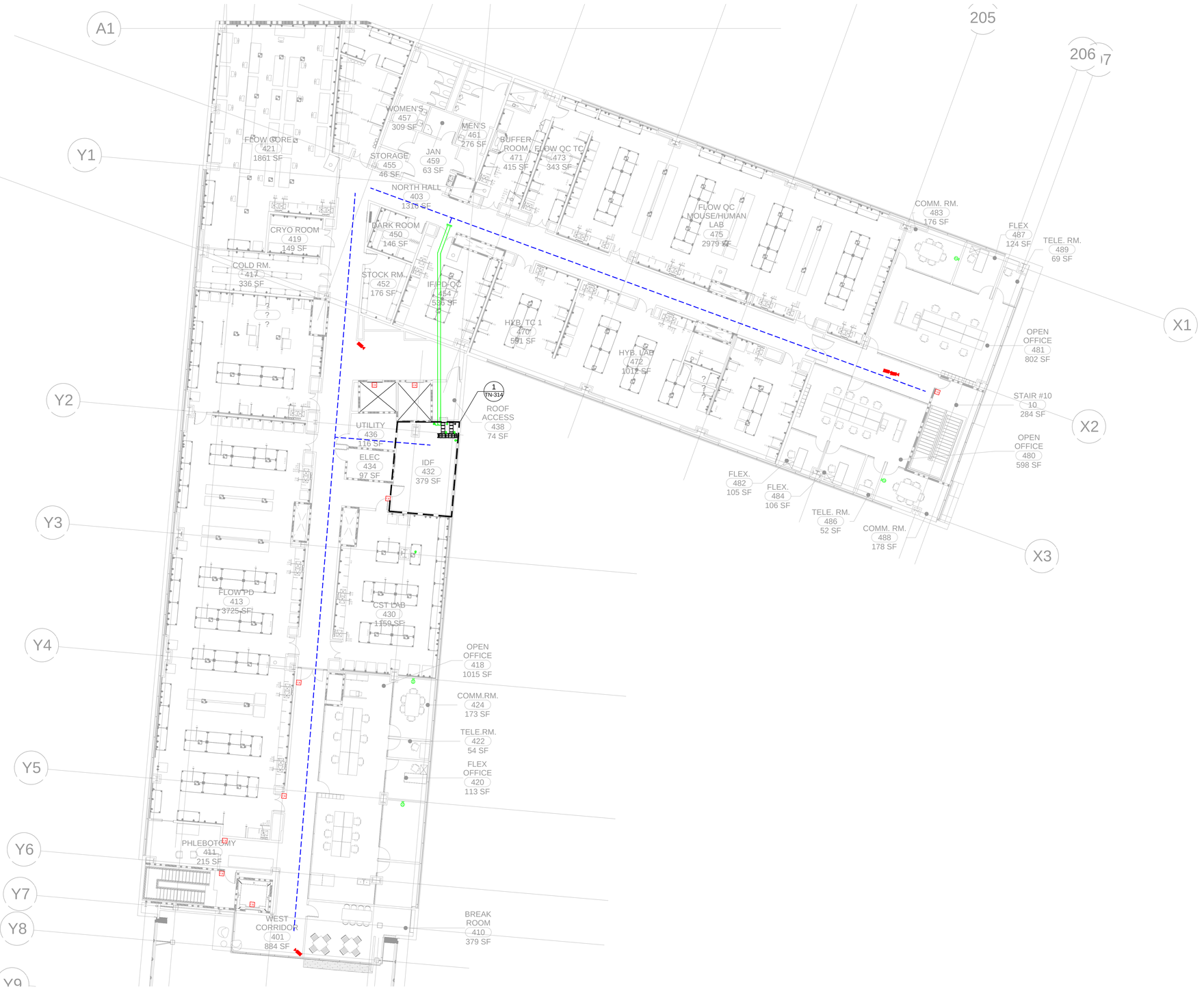
Link to Sheet Index - 2G-002



KEY NOTES:

1 IDF, SEE PAGE TN-314 FOR ENLARGED VIEW

CP2 4TH FLOOR SECURITY PLAN

SCALE: 10' 20'

1

GENERAL N

1. ALL CONDUITS, BAC REQUIREMENTS WI CONTRACTOR.
2. ALL CONDUITS WILL
3. ALL MOUNTING HEI BEFORE INSTALLIN
4. ALL EXTERIOR EQUI PENETRATION WITH INTERIOR.
5. ELECTRICAL CONTR STRING TO ALL LOC CONDUIT.
6. SEE SHEET TN-600
7. CABLE PATHWAYS DASHED LINE, THEY AND WILL NEED TO

#	REVISIONS:	DATE:
1	INITIAL SECURIT	2017
2	100% DD SET	4-25-2017

GENE THEORY

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

BICSI RCDD APPROVED

CUSTOMER:

GENE THEORY -CP-2

SHEET TITLE:

CP2 4TH FLOOR SECURITY PLAN

PLOT DATE 9/9/16
DRAWN BY Rcoronado
SCALE AS NOTED

CUSTOMER APPROVAL:

INITIALS DATE

TY-224

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Link to Sheet Index - 2G-002

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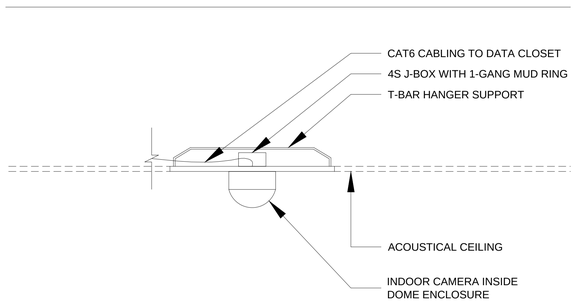
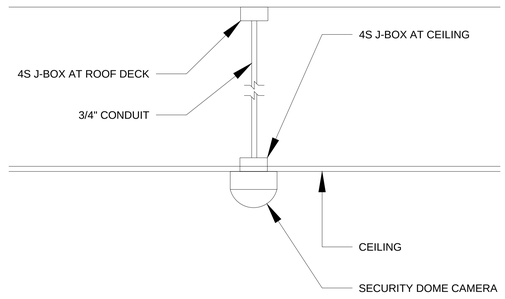
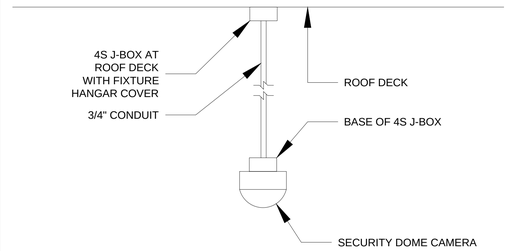


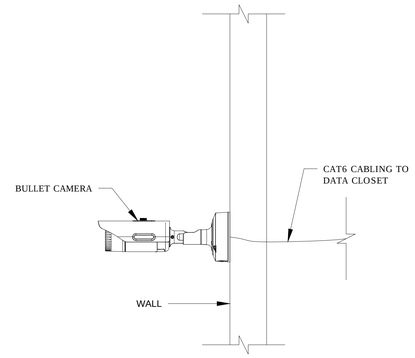
DOME CAMERA - TYPICAL CEILING TILE MOUNT | 1



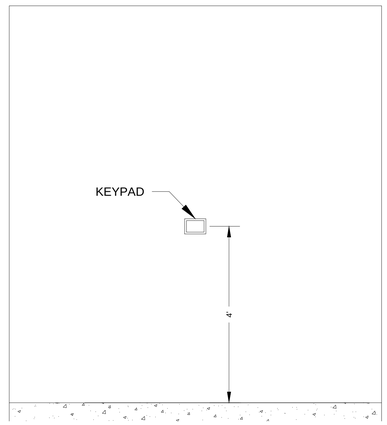
DOME CAMERA - TYPICAL HARD LID CEILING MOUNT | 2



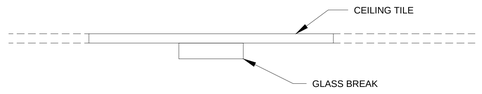
DOME CAMERA - TYPICAL OPEN CEILING MOUNT | 3



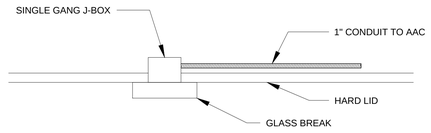
BULLET CAMERA - TYPICAL WALL MOUNT | 4



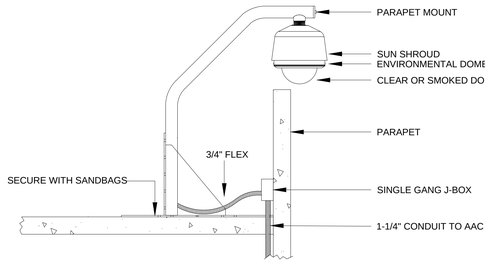
TYPICAL KEYPAD MOUNT | 5



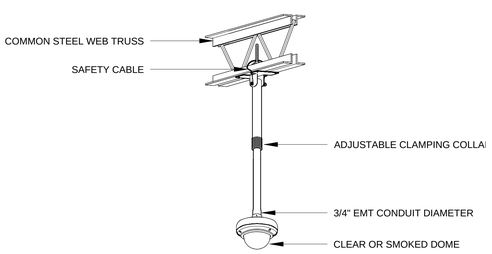
GLASS BREAK - TYPICAL CEILING TILE MOUNT | 6



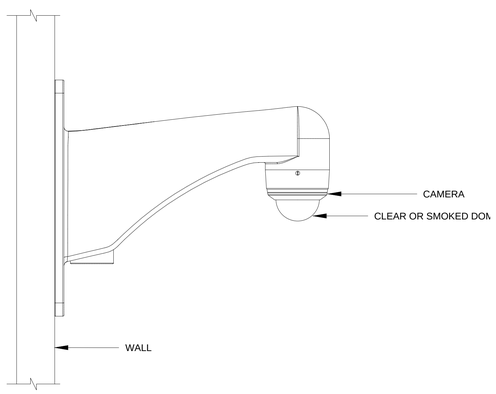
GLASS BREAK - TYPICAL HARD LID CEILING MOUNT | 7



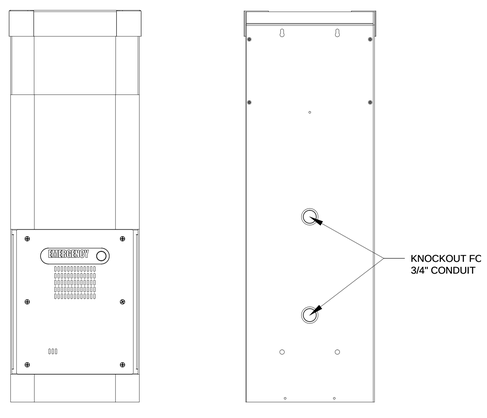
DOME CAMERA - TYPICAL PARAPET MOUNT | 8



DOME CAMERA - TYPICAL TELESCOPING POLE BRACKET | 9



DOME CAMERA - TYPICAL SHORT ARM PENDANT MOUNT BRACKET | 10



FRONT VIEW

BACK VIEW

EMERGENCY PHONE - FRONT AND BACK VIEW | 11

12

BI GENE THEORY
CP-2

TERM
SAN 1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

MOUNTING DETAILS

Sheet No.
2TY-700

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
7/26/2017 4:14:23 PM

SYSTEM REQUIREMENTS

909.11 POWER SYSTEMS

Primary and secondary power will be required for this system. Transfer to the secondary power source must occur within 10 seconds of primary power failure for emergency power loads and within 60 seconds for standby power loads. The system must be capable of withstanding power outages and must have a continuous power supply or uninterruptible power supply for all components of the system that require volatile memory. Furthermore, a power surge protector must be included for those elements of the smoke management system that are susceptible to power surges. Alternatively, conditioner suppressors or other approved means may be used.

The secondary (standby) power system and its transfer switches are required to be located in a room separated from power transformers and switch gear. This room requires a 1-hour minimum rating and ventilation directly to and from the exterior of the building.

909.12 DETECTION AND CONTROL SYSTEMS

All control systems must be supervised in accordance with the Fire Code. Positive confirmation of actuation, testing, manual override, device mechanisms, and the presence of power downstream of all disconnect switches must be provided for all devices and equipment considered part of an active smoke control system. Fans that are part of an active smoke control system must also be monitored. Current sensors are acceptable to the REDWOOD CITY Building Department to verify the proper operation of fans. Dampers must be monitored using switches installed at the damper or incorporated into the damper actuator. Where multiple dampers are grouped together, the switches can be provided for the group.

Supervision of all active smoke control system components must be indicated at a Firefighters' Smoke Control Panel that is listed for use as a UUKL type panel. All wiring, regardless of its voltage, must be fully enclosed within continuous conduits or raceways.

It has been assumed that the building will be provided with a building management system (BMS). The BMS system will be permitted to provide control inputs to the smoke control system equipment that is also controlled by the smoke control system. Equipment such as the AHUs and passive barrier dampers system may be provided with control inputs from both the BMS and smoke control systems. Where dual control inputs are provided, the systems and equipment will be configured such that the smoke control system inputs always has a higher control priority than the BMS inputs.

It has further been assumed that variable frequency drives (VFD) will be used for the smoke control system fans. If the VFD control panel is equipped with a Hand-Off-Auto (HOA) switch, this switch must be overridden by automatic or manual control signals from the FSCP, as the local disconnect is the only switch permitted to have a higher control priority than the FSCP.

909.14 MARKING AND IDENTIFICATION

During the Construction Phase, the detection and control systems must be clearly marked at all junctions, accesses, and terminations. This marking must be approved for its use by the Fire and/or Building Departments and in accordance with generally accepted practice.

909.15 CONTROL DIAGRAMS

Control diagrams that depict the devices in the system, identifying their location and functions, must be current, and must be kept within the building after construction, at the Fire Department in a format approved by the Fire Department.

909.16 FIREFIGHTERS' SMOKE CONTROL PANEL

A Firefighters' Smoke Control Panel must be provided for manual control and override of automatic control for the active smoke control system components. This panel must be designed such that it graphically depicts the layout of fans, major ducts, and dampers within the building that are part of the active smoke control systems. A clear indication of the direction of airflow must be provided on the graphical display. The graphical layout of the panel will need to be submitted to the Building Department for review and approval prior to acceptance and installation.

Status indication must be provided for all active smoke control equipment by pilot lamp-type indicators as follows:

1. **White** - Fans, dampers, and other operating equipment in their normal status.
2. **Red** - Fans, dampers, and other operating equipment in their off or closed status.
3. **Green** - Fans, dampers, and other operating equipment in their on or open status.
4. **Yellow/Amber** - Fans, dampers, and other operating equipment in a fault status.

SMOKE CONTROL FUNCTIONAL MATRIX

2.3	Initiating Device								
	Area Smoke or Heat Detectors, Spot Smoke Detectors		Sprinkler Waterflow		Duct Smoke Detectors or In Duct Detectors		FSCP Manual Controls		
Location of Device(s) - Level or Space	Atrium Space	Areas Outside the Atrium - Levels 1 - Roof	Atrium Space	Areas Outside the Atrium - Levels 1 - Roof	Supply Fans - not part of smoke control system	At Smoke/Fire Dampers	FSCP Switch - On	FSCP Switch - Auto	FSCP Switch - Off
Responding System	Response								
Smoke Exhaust Fans (SM-EF1, SM-EF2, SM-EF3, SM-EF4)	On		On				On	Automatic control	Off
Makeup Air Doors (101.1, 103.2, 201.1)	Open		Open				Open	Automatic control	Close
HVAC Fans within Atrium	Off		Off		Off		Off	Automatic control	Off
Passive Dampers and Magnetically Held Open Doors in Atrium Separation	Close	Close	Close	Close		Close	Close	Automatic control	Close

General Notes:
1. Duct or in-duct smoke detectors will change the state of the corresponding device in accordance with the CBC unless specifically addressed in the matrix above.
2. Fans and dampers not in the matrix above shall comply with any applicable CBC requirements for shut-down and closure.
3. Detection devices shall be installed only where required by applicable CBC Sections and referenced NFPA Standards. If detection devices are installed in these areas and connected to the FACP due to CBC or NFPA requirements, they shall initiate a response in accordance with this matrix. This matrix is not intended to require the installation of detection devices beyond what is require by the applicable Codes or Standards.
4. FSCP switches shall have priority over automatic responses.
5. Manual pull stations will not initiate smoke control functions.

In addition to the light status indication shown above, in a non-alarm condition if any smoke control system component is manually activated using the switches on the FSCP, all white lights must extinguish to indicate the system is in a non-normal condition. All white lights shall also extinguish during an alarm condition, even if the associated component does not change state.

The Firefighters' Smoke Control Panel must also provide control capability over all active smoke control system components within the building as follows:

1. **On/Auto/Off** - Control over each individual piece of active smoke control equipment that can also be controlled from other sources within the building.
2. **Open/Auto/Close** - Control over all individual dampers (or groups of dampers as approved by the authority having jurisdiction) relating to active smoke control that are also controlled from other sources within the building.
3. **On/Off or Open/Close** - Control over smoke control systems and other critical equipment associated with fire or smoke emergency that can only be controlled from the Firefighters' Smoke Control Panel.

Light-emitting diodes may be used in lieu of pilot lamps with prior approval from the Fire Department. A lamp-test push button or other self-restoring means to test the Firefighters' Smoke Control Panel status indication lamps must be included. If permitted by the REDWOOD CITY, grouping of control functions and status indications by associated components may be utilized to simplify manual control of the smoke control system.

909.17 RESPONSE TIME

Activation of the smoke control system must be initiated immediately after receipt of the appropriate automatic or manual activation command. If required to prevent physical damage to the system or tripping of other emergency controls (e.g. air handling unit high-static pressure sensors), components may be activated in a specific sequence and / or incorporate short delays as determine by the mechanical engineer of record. The CBC does not prescribe response times for smoke control equipment. The total response time after detection is not anticipated to exceed 60 seconds. If the response time exceeds this value during special inspection, the system will have to be evaluated to determine if the delay is invalidating the findings of the smoke control report.

GENERAL NOTES

1. The information provided on this sheet is for reference only and does not represent the complete smoke control report. A copy of the smoke control report in its entirety should be obtained for the construction of this project.

REQUIRED FAN CAPACITY

Through CFD modeling, it was determined that the smoke control system requires 100,000 CFM of mechanical exhaust. This exhaust is provided by mechanical exhaust fans located on the roof with exhaust inlets located on the ceiling within the atrium on Level 4.

The make-up air is supplied by automatically opening three sets of doors: the main entry door located at Level 1 on the building's west face, the corridor entry doors located at Level 1 on the building's west face, and the bridge access doors located at Level 2 on the building's south face. The main entry door provides 40.25 square feet of opening, the corridor entry doors provide 48 square feet of opening, and the bridge access doors provides 46.75 square feet of opening area.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

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CITY SUBMITTAL SET
08.08.17

Sheet Title
SMOKE CONTROL SYSTEM INFORMATION

Sheet No.
2SC-001

TESTING OVERVIEW

TESTING AND MAINTENANCE OVERVIEW - SPECIAL INSPECTION

Prior to commissioning the smoke control system, smoke control system testing scenarios will be developed by the special inspection agency. The testing criteria will be reviewed by the City to ensure that the methods of testing are acceptable. This appendix is intended to provide a general overview of the testing process rather than detailed testing procedures.

BACKGROUND

Three copies of a document describing testing procedures of all active smoke control systems will be submitted to the REDWOOD CITY for review and comment prior to final testing.

It must be understood that smoke control systems will comply with the codes presently adopted by the REDWOOD CITY, California. The following sections highlight major inspection and testing requirements for the project.

VISUAL INSPECTIONS

The following represents inspection requirements that will be fulfilled by either the City or the Special Inspector, as appropriate. It does not represent the Special Inspection Testing Program, and has been provided for information purposes only. These testing criteria may be used to develop the final special inspection program.

Automatic Dampers

Verify that automatic dampers installed within smoke-control systems are listed and conform to the requirements of approved recognized standards (CBC 909.10.4). Verify that fire dampers are labeled for use in dynamic systems (CBC 716.3).

Control Diagrams

Verify location of all fire alarm initiating devices indicated on control diagrams. Verify location of all output devices (dampers, fans, automatic doors, conductors, junction points) are installed according to the approved control diagrams. Verify that fire alarm initiating devices which activate smoke-control devices are properly zoned in accordance with the respective smoke-control zone. This includes automatic sprinkler systems when applicable (CBC 909.15 and 909.18.7). Early phase testing and inspection of duct leakage, smoke/fire damper visual, freedom of movement, and continuity test/inspection will be permitted without approved control diagrams.

Doors

Verify that atrium separation doors have the required rating and labeling (CBC Section 716.5.7.1). Verify that S rated doors have a smoke gasket installed.

Fan Belts

Verify that belt-driven fans have at least 1.5 times the number of belts required for the design duty with the minimum number of belts being two (CBC 909.10.5).

Marking and Verification

Verify that the detection and control systems are clearly marked at all junctions, accesses, and terminations (CBC 909.14). Junction boxes, cover plates, and conduit couplings may be color coded as an acceptable means of identification.

Wiring

Verify that all smoke control detection and control wiring is in continuous raceways (CBC 909.12.1).

Location of the standby power source and its transfer switch should be checked to make sure that it is located in a separate room from the normal power transformers and switchgear. Inspector should verify that the power distribution from normal and standby sources is independently routed.

ADDITIONAL REQUIREMENTS

- Smoke control systems shall be maintained to ensure to a reasonable degree that the system is capable of controlling smoke for the duration required. The system shall be maintained in accordance with the manufacturer's instructions and Sections 909.20.1 through 909.20.5 of the California Fire Code. (CFC 909.20)
- A routine maintenance and operational testing program shall be initiated immediately after the smoke control system has passed the acceptance tests prior to the initial occupancy. A written schedule for routine maintenance and operational testing shall be established. (CFC 909.20.1)
- A written record of smoke control system testing and maintenance shall be maintained on the premises. The written record shall include the date of the maintenance, identification of the servicing personnel and notification of any unsatisfactory condition and the corrective action taken, including parts replaced. (CFC 909.20.2)
- Identical control diagrams showing all devices in the system and identifying their location and function shall be maintained current and kept on file with the fire code official, the fire department and in the fire command center in a format and manner approved by the fire chief.
- Special inspections for systems incorporating mechanical systems shall be performed prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurements and detection and control verification.
- Fire sprinkler and fire alarm zones shall be consistent with smoke control zones.
- Shop drawings for the smoke control panel shall comply with CBC Section 909.16.2 and shall be approved by the DSD smoke control review section prior to fabrication.
- 2.3 Landlord through leasing documents and review of tenant improvement drawings for tenant spaces shall ensure that the smoke control exhaust system is not affected by any tenant improvement. Tenant improvements may require the re-commissioning of the smoke control system.
- Documentation and performance of smoke control special inspections shall be in accordance with the applicable sections of the CBC, Technical Bulletin BLDG 9-1, and recommended testing procedures found on this sheet.
- Jensen Hughes will be performing the smoke control special inspections for this project.
- The smoke control panel will be located next to the fire alarm panel.

TESTING PROCEDURE

SYSTEM TESTING PROCEDURES

Control Action and Priorities

1. Verify that the Firefighters' Smoke Control Panel has priority over other building systems (i.e., energy management control systems [EMCS], automatic temperature control [ATC] in smoke-control mode (CBC 909.16.3).
2. Verify that the Firefighters' Smoke Control Panel functions in accordance with its design intent.
3. Verify that doors, fans, and dampers are configured properly and that the appropriate status indication light is lit on the Firefighters' Smoke Control Panel.

Controls

1. Verify that the system has been put into operation by the actuation of one automatic initiation device. Verify that each additional device has been verified to cause the same sequence, but the operation of fan motors may be bypassed after the first positive trial to prevent damage if necessary (CBC 909.18.7).
2. Verify positive confirmation of actuation, testing and manual override. Additionally, verify presence of power downstream of all disconnects (CBC 909.12).
3. Verify control sequences throughout the system, including verification of override from Firefighters' Smoke Control Panel and simulation of standby power conditions (CBC 909.18.7).
4. Verify that fire alarm panel or any elements that rely on volatile memories have uninterruptible power supplies that will span up to fifteen minutes of primary power interruption (CBC 909.11.2).

Dampers

Verify that dampers have been tested for function in their installed condition, and that dampers used for smoke control are provided with standby power (CBC 909.18.3).

Doors

Verify that atrium separation doors on magnetic holders close in accordance with the matrix and on manual command from the FSCP (CBC 909.5.2).

Verify that makeup air doors change status (open / closed) in accordance with the matrix and on manual command from the FSCP (CBC 909.5.2). Verify that the status of makeup air doors is annunciated on the FSCP (CBC 909.16.1). Verify that makeup air doors have been provided with standby power.

Detection Devices

Smoke or fire detectors which are a part of a smoke-control system will be tested in accordance with CBC Chapter 9 in their installed condition. Field verification for compliance with all aspects of CBC 909.18 will be performed by the Special Inspection Agency. When applicable, testing will include both minimum and maximum airflow conditions (CBC 909.18.1).

Fans

1. Verify that motors driving fans do not operate beyond their name plate horsepower (kilowatts) as determined from measurement of actual current draw or kW meter (CBC 909.10.5).
2. Examine fans for correct rotation. Verify measurements of voltage, amperage, revolutions per minute, and belt tension have been made (CBC 909.18.5).
3. Verify proper operation of airflow sensors (CBC 909.12).

Inlets and Outlets

Perform/verify inlet and outlet flow rates have been measured using generally accepted practices to determine air quantities and submitted with final report (CBC 909.18.4).

Standby Power

Verify that full stand-by power is automatic within 60 seconds of primary power failure (CBC 909.11).

RECORDING TESTS AND FAILED TESTS OR INSPECTIONS

The Special Inspector will document specific tests and/or inspections and place them in the final report. The Special Inspector will advise the REDWOOD CITY of the proposed inspection and testing scheduling. The Special Inspector will provide the appropriate documentation to the Building Official in the event that a failing test or inspection has not been corrected by the Contractor. Should the Contractor not correct the areas failing the test or inspections, a correction notice will be given to the appropriate Contractor. A copy of this notice will be provided to the Building Owner. Re-testing or inspection will be rescheduled as soon as possible.

FINAL INSPECTION REPORTS

Reports will be in compliance with CBC 909.18.8.3. A complete report of testing will be prepared by the special inspector or special inspection agency. The report will include identification of all devices by manufacturer, nameplate data, design values, measured values, and identification tag or mark. The report will be reviewed by the responsible designer, and when satisfied that the design intent has been achieved, the responsible designer will affix the designer's signature and date to the report with a statement as follows:

> "I have reviewed this report and by personal knowledge and on-site observation, certify that the smoke-control system is in substantial compliance with the design intent, and to the best of my understanding, complies with requirements of the Code."

A copy of the final report will be filed with the Building Official and an identical copy maintained in the Central Control Station or other approved location at the building.

The above-mentioned report will also have the signature of the approved inspector. The flow and pressure testing professional will also sign and affix their AABC or NEBB agency stamp.

PERIODIC OPERATION AND MAINTENANCE

All active fire protection systems and devices will be regularly tested in accordance with applicable codes and standards by qualified individuals acceptable to the California State Fire Marshal and the REDWOOD CITY. Records of all maintenance and testing will be retained on site and presented to the City and its representatives upon request.

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GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.3	11.20.17	ASI 2.1/IFC

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CITY SUBMITTAL SET
08.08.17

Sheet Title

SMOKE CONTROL TESTING REQUIREMENTS

Sheet No.

2SC-002

DPR Issued Sheet 2017-11-20
Link to the Sheet - 2G-002

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1 FIRST FLOOR SMOKE CONTROL PLAN

SCALE: 1/16" = 1'-0"

16' 12' 8' 4' 0 16' 32'

HATCHING LEGEND

ATRIUM SMOKE CONTROL ZONE

BARRIER LEGEND

1FB — MINIMUM 1-HOUR FIRE BARRIER SEPARATION IAW CBC SECTION 404.6 EXCEPTIONS

MAKEUP AIR OPENINGS

KEYNOTE	DOOR NO.	DESCRIPTION	FREE AREA (SQUARE FEET)
1	101.1	WEST MAIN ENTRY DOORS	59.5
2	103.2	WEST CORRIDOR ENTRY DOOR	48

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Sheet Title

FIRST FLOOR SMOKE CONTROL PLAN

Sheet No.

2SC-101

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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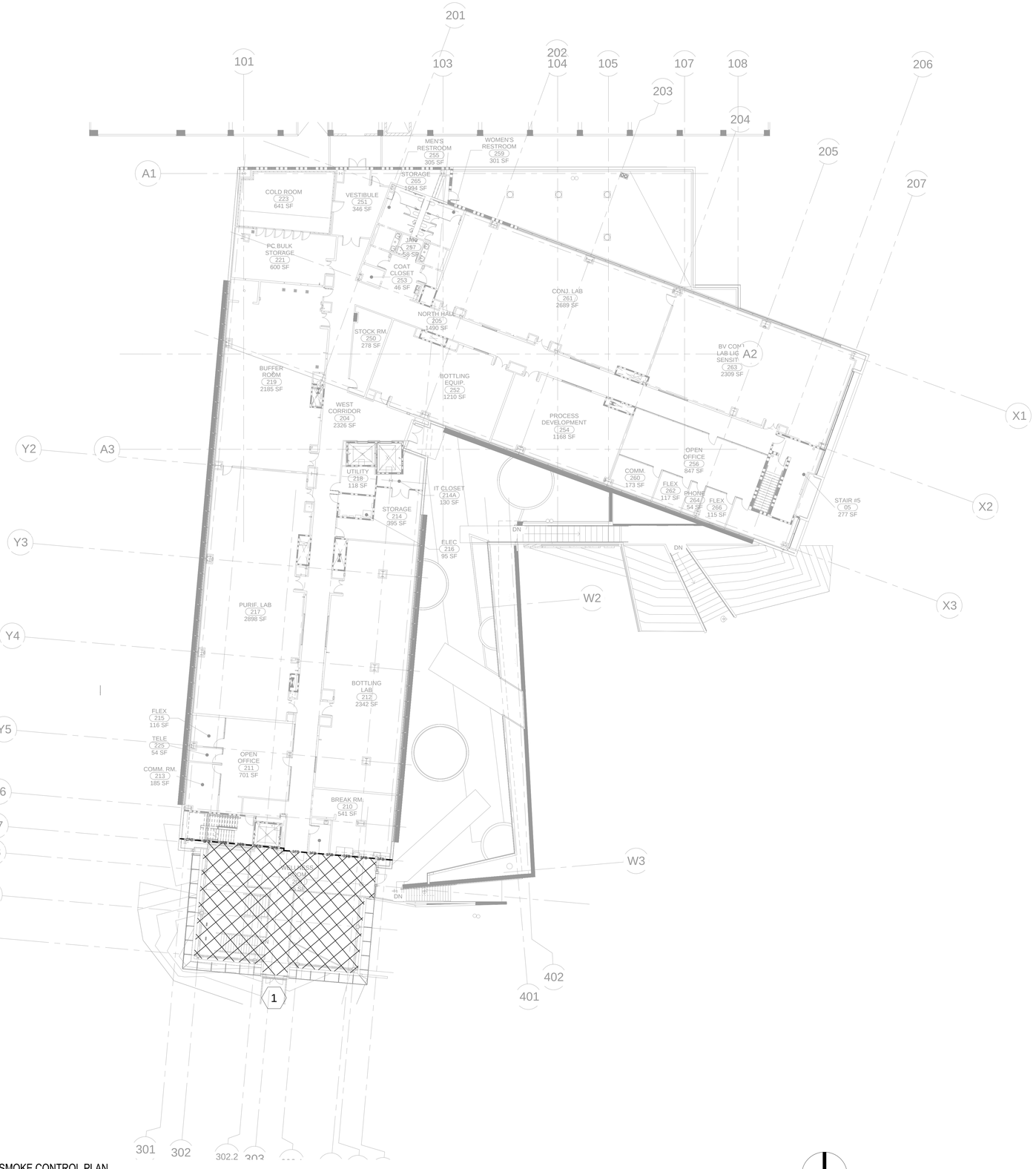

1 SECOND FLOOR SMOKE CONTROL PLAN
SCALE: 1/16" = 1'-0"

16' 12' 8' 4' 0 16' 32'

HATCHING LEGEND

ATRIUM SMOKE CONTROL ZONE

BARRIER LEGEND

1FB — MINIMUM 1-HOUR FIRE BARRIER SEPARATION IAW CBC SECTION 404.6 EXCEPTIONS

MAKEUP AIR OPENINGS

KEYNOTE	DOOR NO.	DESCRIPTION	FREE AREA (SQUARE FEET)
1	201.1	BRIDGE ACCESS DOORS	46.75

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Sheet Title
SECOND FLOOR SMOKE CONTROL PLAN

Sheet No.
2SC-102

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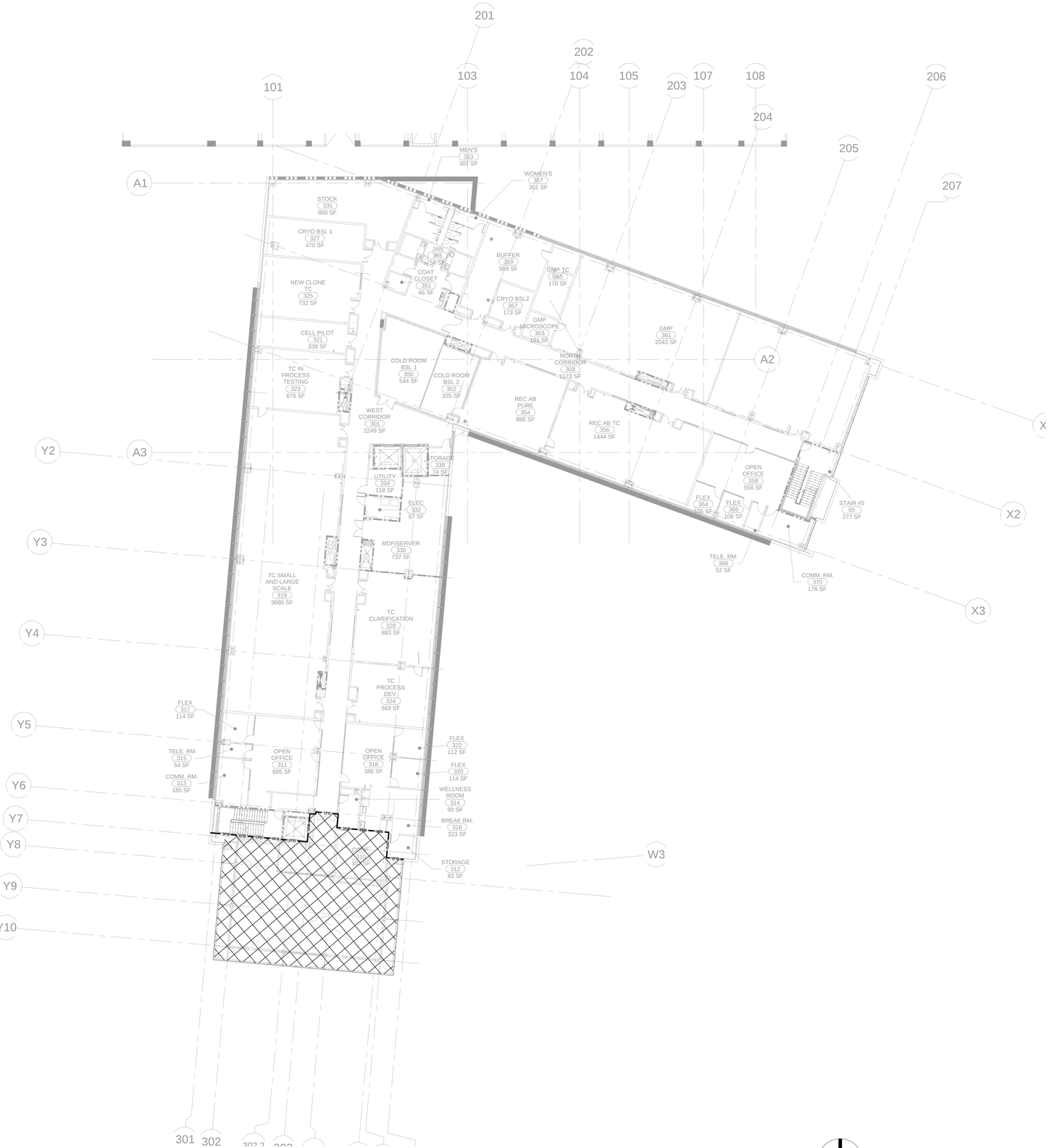

1 THIRD FLOOR SMOKE CONTROL PLAN

SCALE: 1/16" = 1'-0"

16' 12' 8' 4' 0 16' 32'

HATCHING LEGEND

ATRIUM SMOKE CONTROL ZONE

BARRIER LEGEND

1FB — MINIMUM 1-HOUR FIRE BARRIER SEPARATION IAW CBC SECTION 404.6 EXCEPTIONS

GENE THEORY - CP-2

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Sheet Title

THIRD FLOOR SMOKE CONTROL PLAN

Sheet No.

2SC-103

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

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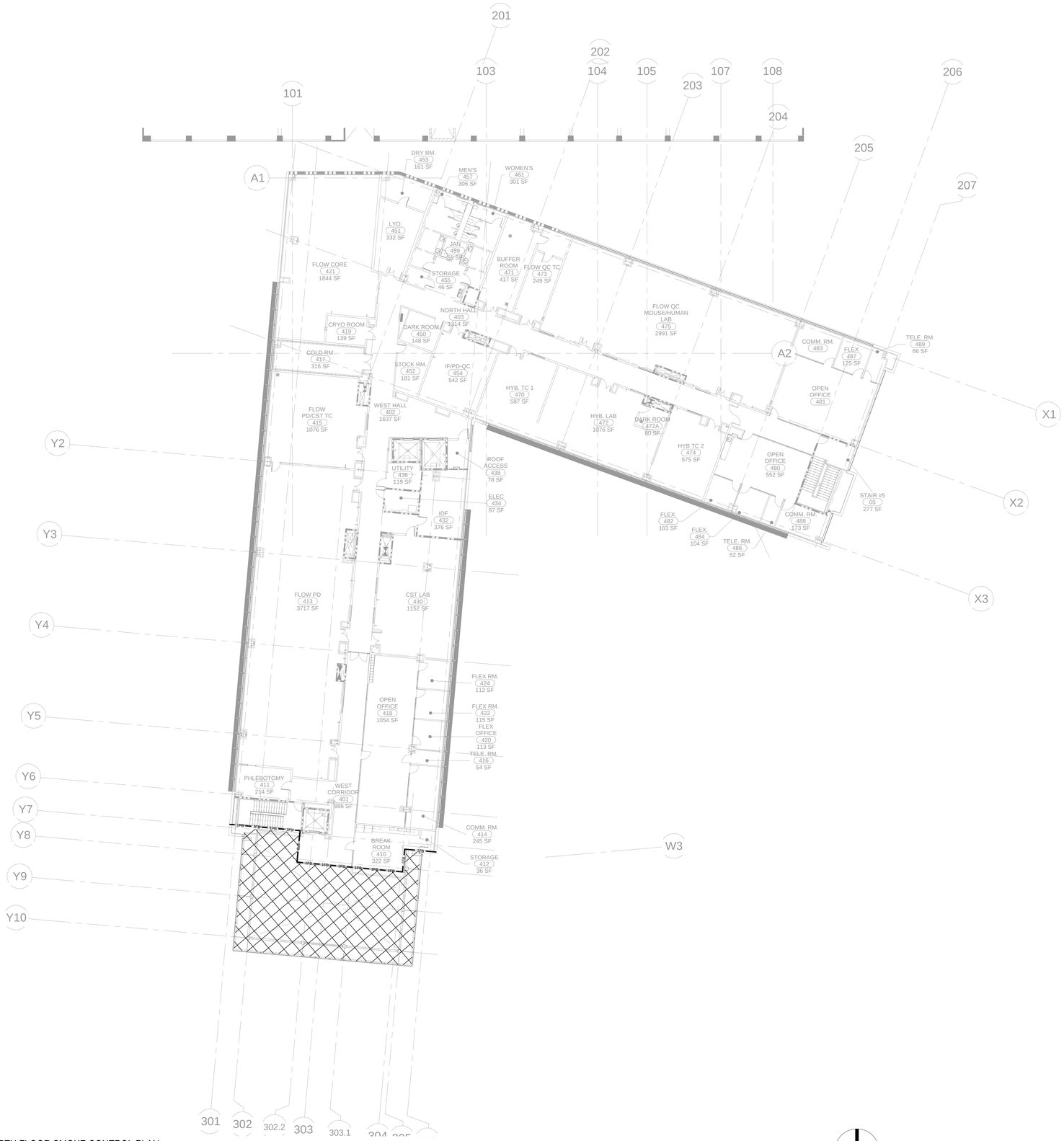

1 FOURTH FLOOR SMOKE CONTROL PLAN
SCALE: 1/16" = 1'-0"

16' 12' 8' 4' 0 16' 32'

HATCHING LEGEND

ATRIUM SMOKE CONTROL ZONE

BARRIER LEGEND

1FB — MINIMUM 1-HOUR FIRE BARRIER SEPARATION IAW CBC SECTION 404.6 EXCEPTIONS

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Sheet Title
FOURTH FLOOR SMOKE CONTROL PLAN

Sheet No.
2SC-104

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

DIVISION 11400 FOODSERVICE EQUIPMENT RESPONSIBILITY SCHEDULE

ITEM	K.E.C. PROVIDE	K.E.C. INSTALL	NOTES	GENERAL CONTRACTOR PROVIDE	GENERAL CONTRACTOR INSTALL	NOTES	ELECTRICAL CONTRACTOR PROVIDE	ELECTRICAL CONTRACTOR INSTALL	NOTES	MECHANICAL CONTRACTOR PROVIDE	MECHANICAL CONTRACTOR INSTALL	NOTES	PLUMBING CONTRACTOR PROVIDE	PLUMBING CONTRACTOR INSTALL	NOTES
GENERAL															
DELIVER, UNCRATE & SET-IN-PLACE	X	X													
WALL BACKING				X	X	1									
ALL FLOOR, WALL, ROOF PENETRATIONS, SLEEVING AND FIREPROOFING/INSULATION.				X	X										
START-UP, TEST AND CALIBRATE K.E.C. PROVIDED EQUIPMENT	X														
P.O.S. DATA INTERFACE CABLE							X	X							
ELECTRICAL															
REVIEW K.E.C. CONSTRUCTION DRAWINGS & NOTIFY K.E.C. OF VARIANCES FROM ARCHITECTURAL/ELECTRICAL DRAWINGS							X	X	1						
CONNECT EQUIPMENT TO BUILDING ELECTRICAL SERVICE							X	X	1						
INTER-CONNECTIONS BETWEEN EQUIPMENT COMPONENTS & FIELD JOINTS							X	X	1						
CONTROL WIRING							X	X	1						
ELECTRICAL MATERIALS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM SUCH AS BUT NOT LIMITED TO: CONDUIT, JUNCTION BOXES, WIRING, CONNECTORS, SWITCHES, DISCONNECT SWITCHES AND RECEPTACLES							X	X	1						
MECHANICAL															
ALL FINAL PLUMBING CONNECTIONS AND INTERCONNECTIONS TO EQUIPMENT FROM BUILDING SERVICES													X	X	
ALL PLUMBING MATERIALS INCLUDING PIPES, TRAPS, STOPS, VALVES, FITTINGS, SHUT-OFFS, WATER HAMMER ARRESTORS, PRESSURE REDUCING VALVES, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.													X	X	
ALL FLOOR, WALL, ROOF PENETRATIONS, SLEEVING AND FIREPROOFING/INSULATING/RE-SEALING										X	X		X	X	
SINK FAUCETS	X													X	
WASTE FITTINGS	X													X	
FLEXIBLE GAS HOSES FOR MOBILE EQUIPMENT	X													X	
APPLIANCE GAS PRESSURE REGULATORS	X													X	
PRIMARY GAS PRESSURE REGULATORS FOR MAIN FEED TO EQUIPMENT													X	X	2
S/S FLOOR TROUGHS	X													X	
STAINLESS STEEL TABLES Z-CLIPS FOR BACKSPLASHES	X	X													
VENTILATION															
NON-WATER WASH EXHAUST HOOD															
EXHAUST HOOD	X	X													
DUCT WORK AND DUCT CONNECTIONS AT HOOD COLLARS										X	X				
ADDITIONAL STRUCTURAL SUPPORT BEYOND HANGING MATERIALS				X	X										
FAN STARTERS AND/OR RELAYS							X	X		X	X				
CONTROL WIRING FROM FAN STARTERS TO HOOD FAN CONTROLS.							X	X	3,4						
PROVIDE FAN ON/OFF SWITCHES.	X	X	3, 4												
INTER-CONNECTING LIGHT CIRCUITS AT FIELD JOINTS							X	X							
FINAL ELECTRICAL CONNECTIONS TO LIGHTS.								X	3						
LIGHT FIXTURES AND LIGHT BULBS	X	X													
AIR BALANCING											X				
PERMITS TO HANG HOODS (IF REQUIRED)	X														
CLOSURE PANELS TO FINISHED CEILING	X	X													
UV HOODS															
UV LIGHTS IN HOOD.	X	X													
UV LIGHT BULBS.	X	X													
WIRING FROM HOOD CONTROL PANEL TO UV LIGHTS.							X	X							
S/S DUCT RISER (IN LIEU OF CONDENSATE HOOD)															
S/S DUCT RISER FROM DISHMACHINE TO 2" ABOVE FINISHED CEILING WITH S/S ESCUTCHEONS.	X	X													
S/S DUCT CONNECTION AT DISHMACHINE.	X	X													
DUCT WORK AND DUCT CONNECTION ABOVE FINISHED CEILING.										X	X				
PROVIDE FAN/DISHMACHINE INTERLOCK RELAY.	X	X	5,6												
INTERWIRE INTERLOCK RELAY TO FAN MOTOR STARTERS.								X							
EXHAUST HOOD ENERGY MANAGEMENT SYSTEM															
EMS CONTROL PANEL.	X	X													
SENSORS IN HOOD.	X	X													
GREASE SENSOR IN DUCT.	X	X													
VFD (VARIABLE FREQUENCY DRIVES).	X							X							
ELECTRIC TO CONTROL PANEL.							X	X							
WIRING FROM CONTROL PANEL TO SENSORS.							X	X							
WIRING FROM CONTROL PANEL TO VFD.							X	X							
WIRING FROM VFD'S TO FANS.							X	X							
WIRING BETWEEN CONTROL PANEL & FIRE SUPPRESSION SYSTEM.							X	X							
INTERNET CONNECTION TO CONTROL PANEL.							X	X							
INTERNET WIRING FROM CONTROL PANEL TO HOOD COMPONENTS.	X							X							
WIRING FROM CONTROL PANEL TO BUILDING MANAGEMENT SYSTEM (BMS).							X	X							
INTERCONNECTION OF HOOD COMPONENTS ON MULTIPLE CANOPY ASSEMBLY.							X	X							

ITEM | K.E.C. PROVIDE INSTALL | NOTES | GENERAL CONTRACTOR PROVIDE INSTALL | NOTES | ELECTRICAL CONTRACTOR PROVIDE INSTALL | NOTES | MECHANICAL CONTRACTOR PROVIDE INSTALL | NOTES | PLUMBING CONTRACTOR PROVIDE INSTALL | NOTES

ITEM	K.E.C. PROVIDE	K.E.C. INSTALL	NOTES	GENERAL CONTRACTOR PROVIDE	GENERAL CONTRACTOR INSTALL	NOTES	ELECTRICAL CONTRACTOR PROVIDE	ELECTRICAL CONTRACTOR INSTALL	NOTES	MECHANICAL CONTRACTOR PROVIDE	MECHANICAL CONTRACTOR INSTALL	NOTES	PLUMBING CONTRACTOR PROVIDE	PLUMBING CONTRACTOR INSTALL	NOTES
FIRE SUPPRESSION SYSTEM															
CHEMICAL ONLY SYSTEM															
SYSTEM COMPONENTS.	X	X													
PERMIT, TESTING, CERTIFICATION.	X														
CHEMICAL PIPING FROM HOOD TO OTTOMAN.	X	X													
OCTAGONAL PULL BOXES RECESSED IN WALL.							X	X	1						
CONCEALED CONDUIT FROM PULL BOXES TO 6" ABOVE FINISHED CEILING.							X	X							
GAS SHUT-OFF VALVE (ELECTRIC OR MECHANICAL).	X													X	
RESETS FOR ELECTRICAL GAS VALVE.	X							X							
SHUNT TRIP BREAKERS							X	X							
N.O./N.C. CONTACTORS FOR FAN SEQUENCING AND/OR FIRE ALARM INTERFACE (CONTACTORS SUPPLIED AS PART OF OTTOMAN ONLY).	X	X	3												
ALL ELECTRICAL WIRING AS REQUIRED TO INTERCONNECT OTTOMAN, GAS SHUT-OFF VALVES, RESETS, BUILDING ALARMS, SHUNT TRIP CIRCUITS, FAN CONTROL/SEQUENCING AS REQUIRED							X	X	1,3						
WATER & CHEMICAL SYSTEM (ADDITIONAL WORK REQUIRED)															
POTABLE OR SPINKLER WATER SUPPLY TO OTTOMAN.													X	X	1, 3
WATER PIPING FROM OTTOMAN TO HOOD(S).	X	X	1, 3												
WATER PRESSURE REDUCING VALVES.													X	X	1, 3
PERMIT, TESTING, CERTIFICATION.	X	X	1, 3												
LOCKABLE WATER SHUT-OFF VALVE FOR WATER SUPPLY TO OTTOMAN.													X	X	
WALK-IN BOX															
WALL, CEILING & FLOOR PANEL ASSEMBILIES	X	X	7,8												
INSTALLATION PERMIT (IF REQUIRED)	X														
SLAB AND/OR FLOOR SLAB DEPRESSION				X	X	7									
ALL APPLIED FLOORING MATERIALS				X	X	7,8									
PREFABRICATED FLOOR PANELS WHEN SPECIFIED.	X	X	7,8												
ADDITIONAL LIGHT FIXTURES.	X							X							
LIGHT BULBS.	X	X													
ALL ELECTRICAL WIRING AND INTERWIRING TO DOOR ASSEMBLY AND LIGHT FIXTURES.							X	X							
ALL WIRING TO HEATED PRESSURE RELIEF VENTS.							X	X							
ALL PENETRATIONS THROUGH WALL PANELS AND CEILING PANELS FOR REQUIRED ELECTRICAL CONDUIT.	X		9,10												
SEALING OF PENETRATIONS INCLUDING INSIDE CONDUITS.							X	X							
CEILING CLOSURE PANELS AND WALL TRIM.	X	X													
FILL GROUT BETWEEN PANELS AND SLAB DEPRESSION.				X	X										
REMOTE REFRIGERATION															
EVAPORATORS AND CONDENSING UNITS.	X	X													
REFRIGERATION PIPING FROM EVAPORATORS TO CONDENSING UNITS.	X	X													
PERMITS.	X	X													
WALL, ROOF, FLOOR PENETRATIONS, SLEEVES & REQUIRED SEALING/FIREPROOFING.				X	X										
WIRING FROM TIME CLOCK TO FREEZER EVAPORATORS.							X	X	1,3						
WALK-IN EVAPORATOR COIL DRAINS TO FLOOR SINKS.	X	X													
WALK-IN FREEZER DRAIN HEATERS.	X							X							
INSULATE FREEZER DRAIN LINES.	X	X													
FINAL ELECTRICAL CONNECTION FOR FREEZER DRAIN HEAT TAPE.								X							
FINAL ELECTRICAL CONNECTIONS TO COILS, CONDENSING UNITS, REFRIGERATION RACKS, ETC.							X	X	1,3						
ROOF CURBS, PITCH POCKETS, HOUSEKEEPING PADS FOR CONDENSING UNITS.				X	X										
ELECTRICAL DISCONNECTS (IF REQUIRED).							X	X							
WATER COOLED CONDENSERS (ADDITIONAL WORK)															
COOLING WATER CONNECTIONS TO CONDENSERS.													X	X	1, 3
POTABLE WATER BACK-UP (IF REQUIRED)													X	X	
WATER PRESSURE REDUCING VALVES.													X	X	3
WATER PRESSURE AND TEMPERATURE GAUGE(S).													X	X	
HAND VALVES TO ISOLATE CONDENSER FOR SERVICE.													X	X	
COOLING WATER STRAINER (INPUT).													X	X	
METREX FLOW CONTROL REGULATORS.													X	X	
DISHMACHINE & WATER BOOSTER HEATER															
ELECTRIC TANK HEAT															
FINAL PLUMBING CONNECTIONS FROM BUILDING SERVICES.													X	X	
INTERPIPING BOOSTER HEATER TO FINAL RINSE ON DISHMACHINE.														X	
WATER PRESSURE REDUCER.	X													X	
FINAL ELECTRICAL CONNECTION FROM BUILDING SERVICES.							X	X							
ELECTRICAL DISCONNECTS (IF REQUIRED).							X	X	12						
FAN/DISHMACHINE INTERLOCK RELAY (PRE-INSTALLED BY MANUFACTURER).	X	X													
INTERWIRE FAN/DISHMACHINE INTERLOCK RELAY TO EXHAUST FAN MOTOR STARTERS.							X	X							
TABLE LIMIT SWITCH (LOCATED @ END OF CLEAN DISHTABLE).	X	X													
INTERWIRE TABLE LIMIT SWITCH TO DISHMACHINE.							X	X							
WATER TEMPERATURE AND WATER PRESSURE GAUGES FOR BOOSTER HEATER.	X													X	
140° F INCOMING WATER TEMPERATURE TO BOOSTER HEATER.													X		
S/S DUCT RISERS TO 2" ABOVE FINISHED CEILING AND DUCT COLLARS.	X	X													
DUCT CONNECTIONS ABOVE FINISHED CEILING.										X	X				

ITEM | K.E.C. PROVIDE INSTALL | NOTES | GENERAL CONTRACTOR PROVIDE INSTALL | NOTES | ELECTRICAL CONTRACTOR PROVIDE INSTALL | NOTES | MECHANICAL CONTRACTOR PROVIDE INSTALL | NOTES | OTHER TRADES PROVIDE INSTALL | NOTES

ITEM	K.E.C. PROVIDE	K.E.C. INSTALL	NOTES	GENERAL CONTRACTOR PROVIDE	GENERAL CONTRACTOR INSTALL	NOTES	ELECTRICAL CONTRACTOR PROVIDE	ELECTRICAL CONTRACTOR INSTALL	NOTES	MECHANICAL CONTRACTOR PROVIDE	MECHANICAL CONTRACTOR INSTALL	NOTES	PLUMBING CONTRACTOR PROVIDE	PLUMBING CONTRACTOR INSTALL	NOTES	OTHERS PROVIDE	OTHERS INSTALL	NOTES
ICE MACHINE																		
ICE MACHINE & BIN.	X	X																
WATER FILTER (CENTRAL SYSTEM).	X													X				
WATER PIPE FROM CENTRAL FILTER SYSTEM TO ICE MACHINES.													X	X				
ELECTRICAL DISCONNECTS (IF REQUIRED).							X	X										
COOLING WATER SUPPLY & RETURN.													X	X				
WATER COOLED: METREX VALVES.													X	X				
SODA SYSTEM																		
SODA LINE CONDUIT FROM SODA SYSTEM TO DISPENSERS.																X	X	1
SODA LINES AND CO2 LINES																X	X	19
SODA DISPENSERS																X	X	19
POTABLE WATER CONNECTIONS AT CARBONATOR.																X	X	19
ELECTRICAL CONNECTIONS TO CARBONATORS & DISPENSERS.																X	X	19

ITEM | K.E.C. PROVIDE INSTALL | NOTES | GENERAL CONTRACTOR PROVIDE INSTALL | NOTES | ELECTRICAL CONTRACTOR PROVIDE INSTALL | NOTES | MECHANICAL CONTRACTOR PROVIDE INSTALL | NOTES | PLUMBING CONTRACTOR PROVIDE INSTALL | NOTES | OTHERS PROVIDE INSTALL | NOTES

NOTES KEY

1	SEE CONTRACT/K.E.C. CONSTRUCTION DRAWINGS FOR LOCATIONS.
2	MAXIMUM GAS PRESSURE NOT TO EXCEED 8" WC NATURAL GAS. VERIFY GAS PRESSURE REQUIREMENTS WITH K.E.C. FOR LP SERVICES.
3	SEE MANUFACTURER'S SHOP DRAWING FOR ADDITIONAL DETAILS.
4	VERIFY IF FAN CONTROLS ARE PART OF HOOD PACKAGE SUPPLIED BY K.E.C.
5	STARTS EXHAUST FAN WHEN DISHMACHINE IS ACTIVATED.
6	CONTROL WIRING FROM RELAY ON DISHMACHINE TO EXHAUST FAN STARTERS BY EC.
7	SEE K.E.C. COORDINATION DRAWINGS FOR FLOOR ASSEMBLY DETAILS.
8	SEE MANUFACTURER'S SHOP DRAWINGS FOR FLOOR DETAILS.
9	ALL CONDUIT TO RUN ON EXTERIOR OF WALK-IN BOX.
10	ELECTRICAL TRADES TO INSULATE ON INSIDE OF CONDUIT TO PREVENT CONDENSATION AND RESEAL ALL PENETRATIONS THROUGH PANELS.
11	K.E.C. TO PROVIDE & INSTALL ALLARMS AND PROBES.
12	COORDINATE DIISHMACHINE DISCONNECT LOCATION WITH K.E.C.
13	SEE CUT SHEETS FOR DISPOSER CONTROL. CONTROL SUPPLIED MAY INCLUDE A DISCONNECT.
14	PROVIDE (1) BALL VALVE FOR EACH NOZZLE PLUS (1) BALL VALVE FOR DISPOSER.
15	BALL VALVES ARE REQUIRED TO REGULATE WATER FLOW AT EACH NOZZLE AND AT DISPOSER BODY.
16	SEE K.E.C. COORDINATION DRAWINGS FOR DETAILS.
17	SEE MANUFACTURER'S SHOP DRAWINGS FOR DETAILED WIRING DIAGRAM.
18	ARCHITECT TO DETERMINE IF A FIRE RATED DOOR IS REQUIRED.
19	VENDOR PROVIDED & INSTALLED.

ABBREVIATIONS KEY

EC	ELECTRICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
HVACC	HEATING, VENTILATION & AIR CONDITIONING CONTRACTOR
&	AND
NC	NORMALLY CLOSED
NO	NORMALLY OPEN

THIS SCHEDULE IS PROVIDED AS A GUIDELINE FOR USE IN IDENTIFYING GENERAL INSTALLATION REQUIREMENTS FOR FOODSERVICE EQUIPMENT AND IS NOT TO BE CONSIDERED A COMPREHENSIVE LISTING.

REFER TO ALL FOODSERVICE EQUIPMENT SUBMITTALS FOR DETAILED INFORMATION FOR INSTALLING AND/OR CONNECTING EQUIPMENT.

Environmental Health Notes

gadiinv hrf Emulpnm dms i Hd isg msdr pd sn ad oi bdc nmwnt poi mr sn r r hrshmopnuhchmf bid pchpdbshmmadsv ddmsgnr d hmuniudc hmsgd bst i bnmrspt bshmmne ennc e bhhswhrbit chmf bnmsp bsnpr mc Emulpnm dms i Hd isg Specialists. These notes will encompass most food facilities but are not meant to be comprehensive for all food facilities or situations:

1. A concrete slab is provided for trash, garbage, and grease container. If walls enclose area, the interior wall surfaces will be smooth, sealed and washable (e.g., plastered smooth and painted, etc.).
2. All food-related and utensil-related equipment shall meet or be equivalent to sanitation standards established by an American National Standards Institute (ANSI) accredited program.
3. All floor mounted equipment will be installed on minimum 6" sanitary legs, castors, or completely sealed in position on a 4 " high curb with continuously coved base. Countertop equipment will be on 4-inch sanitary legs or sealed to the counter unless readily movable.
4. If soft drink, ice or other dispensers are self-service, or if refills are provided they must be push button types, or lever types where the lever contacts the container at least one inch below the rim.
5. Any openable windows vent openings or other similar openings must be provided with tight fitting screens of minimum 16-mesh to the inch. Windows to be fixed at food prep, utensil-washing, open food and utensil storage areas.
6. All exterior doors open outward and are self-closing and tight fitting.
7. Bi-fold, French, accordion style and roll-up doors cannot open into the food prep, utensil washing or unpackaged food service areas.
8. Toilet room and dressing room doors must be self-closing, tight fitting.
9. Delivery doors to have air curtain fans that span the width over the door. The fan must activate via a microswitch providing a minimum velocity of 1600 fpm measured 3 feet above the ground.
10. A minimum of 10 foot-candles of light measured 30" off floor is provided in walk-in refrigerated storage and dry storage rooms and at least 20-foot candles is provided where food is provided for consumer self-service, where fresh produce or prepackaged foods are sold or offered for consumption; inside equipment such as reach-in and under-counter refrigerators; in areas used for handwashing, warewashing, equipment and utensil storage, and in toilet rooms.
11. A minimum of 50 foot-candles of light measured 30" off floor is provided when working with food or working with utensils or equipment such as knives, slicers, grinders, or saws where employee safety is a factor and in all areas during periods of cleaning.
12. Shattershields for all lights above food preparation, work, and storage areas will be provided.
13. All warewashing sinks to have 3 compartments that are a minimum size of at least 18"x18"x12" deep (or 16"x20"x12" deep) with a minimum 18" drainboard at each end. If against a wall, it must have an 8" integral backsplash. However, it must be capable of accommodating the largest utensil to be washed. A warewashing machine does not substitute for the sink requirement.
14 Sinks to have spout(s) capable of reaching each compartment.
15. Food prep sink compartment(s) to be at least 18"x18"x12" deep (or 16"x20"x12" deep) with a minimum 18" drainboard. Separate food prep sinks to be provided for meats and produce.
16. The 3 or 4 compartment bar sink to be at least 12"x12"x10" deep (or 10"x14"x10" deep) with a minimum 18" drainboard at each end.
17. A separate wet waste dump fixture shall be provided for disposal of drink or waste ice or coffee waste.
18. Each handwashing sink must have permanently mounted single-service soap and paper towel dispensers.
19. The hot water heater will be a commercial type capable of constantly supplying hot water at a temperture of 120oF to all sinks. In sizing the water heater, the peak hourly demand for all sinks, etc., are added together to determine the minimum required recovery rate.
20. All lavatories or hand sinks will have a combination faucet or premixing faucet capable of supplying water tempered to 100oF. Self-closing or metered faucet to provide at least 15 seconds of water without reactivation.
21. All plumbing, electrical and gas lines shall be concealed within the building structure to as great an extent as possible. All exposed conduits, plumbing, etc. shall be installed at least 6" off floor and 3/4" from walls using standoff brackets.
22. Conduits, plumbing or piping cannot be installed across any aisle way, traffic area or door opening.
23. Multiple runs or clusters of conduit or pipelines shall be furred in or encased in an approved sealed enclosure.
24. All liquid waste shall be drained by means of indirect waste pipes into a floor sink. Floor sinks are to be installed flush with the finished floor surface and have suitable easily removable safety cover grates.
25. Floor sink to be 50% exposed when no access is provided for cleaning or be in line with the front face of elevated freestanding equipment.
26. Approved backflow prevention devices shall be properly installed upstream of any potential hazard between the potable water supply and a source of contamination. Hoses shall not be attached to a faucet or hose bibb unless an approved backflow preventer is provided.
27. Water supply to carbonators shall be protected by an approved reduced pressure principle backflow preventer. The relief valve shall drain indirectly to sewer with a legal air gap.
28 For cleaning floor mats, the janitorial sink to be a minimum 24" by 36" floor-mounted type. Mops shall be placed in a position that allows them to air-dry without soiling walls, equipment, or supplies.
29. The janitorial sink faucet will have a threaded outer lip for hose attachment and an approved backflow prevention device. No chemical dispensing systems or shutoff valves to be attached to mop sink faucet outlet (unless a "sidekick" plumbing device is installed).
30. No condensate or wastewater including HVAC will drain into the janitorial sink.
31. Grease trap to be located outside the food service activity area, flush with the finished floor when indoors. Local wastewater district or building department to be contacted for grease removal requirements.
32. Floor drains shall be installed in floors that are water-flushed for cleaning and in areas where pressure spray methods for cleaning equipment are used, in restrooms, janitorial rooms, sculleries, and at bars with warewashing. Floor surfaces in areas pursuant to this shall be sloped 1:50 to the floor drains.
33. Adequate ventilation is to be provided to all toilet rooms, janitor closets with mop sinks, and indoor trash rooms and in dressing/change room(s).
34. The floor finish will have a smooth surface under all equipment and walkways will have a light texture only.
35. The paint used on walls and ceilings of all kitchen, food preparation, work, and storage areas will be a gloss or semi-gloss enamel. Finish material shall be a light color in food prep areas for easy cleaning.
36. Prior to installation, samples of finishes to be submitted to Environmental Health for approval as needed.
37. Cold storage rooms shall be provided with a section of shelving installed to hold shallow cool down pans –not to exceed 4" in height. Space between shelving to be at least 8" high.
38. Backup dry storage shelving shall be a minimum of 96 linear feet (measured with tiers) or 25% of kitchen, food prep, and work areas, whichever is greater. Shelving shall be at least 18 inches deep and start a minimum six inches off the floor surface.
39. Shelving over wet areas (sinks, mop sinks etc.) and food prep surfaces will be metal.
40. All seams, gaps, openings to be properly sealed.

Owner: GENE THEORY
Phone: 858.455.9588

This facility is a multi-service consumer utensils
4 empolyee per shift

All windows are fixed

2.2 CP-1 is to service CP-2

MEP CONTRACTORS AND ENGINEERS: Please note that these drawings are for planning locations and costs for rough-in connections to equipement as noted in these plans. The final selection of equipment may change and effect the size, location and cost of the work associated. All services to the equipment shown should be reverified with the final "For Construction" drawings produced by the installer.

Summary of work
1. The work to be performed by the Contractor(s) under this set of contract documents is the demolition, alteration and new construction as is necessary to provide for the installation of the foodservice equipment shown herein, and includes the following:
2. It is the intent of the contract notes and documentation that all materials, equipment, and all systems be installed properly and complete for their intended function in the completed work.
3. The work includes, but is not limited to all labor, materials, equipment, tools, machinery, construction, facilities and temporary controls, transportation and other facilities and services necessary to produce the construction required by the contract documents.
4. All specifications books, addenda, inquiries and requests attached to or distributed with these drawings constitute the complete scope of work to be fufilled in
these plans.

General Notes and Conditions
1. MÜLLER DESIGN INC. DOES NOT REPRESENT THEMSELVES AS ARCHITECTS, CONTRACTORS OR ENGINEERS. THESE DRAWINGS ARE PROVIDED FOR THE CONVENIENCE OF THE ARCHITECT, CONTRACTOR AND/OR SUBCONTRACTORS TO SHOW THE GENERAL PLACEMENT OF EQUIPMENT, FIXTURES, FURNISHINGS AND/OR MATERIALS AND WERE MADE FROM AVAILABLE INFORMATION AT THE TIME THEY WERE DRAWN.
2. ALL PLUMBING, ELECTRICAL, VENTILATION AND REFRIGERATION, ROUGH-IN WORK, FINAL CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT AND FIXTURES INCLUDING TAPS, VALVES, GREASE TRAPS, MISC. FITTINGS, SWITCHES, WIRING, CONDUIT OR FLEX, MAGNETIC STARTERS, DISCONNECTS, ELECTRICAL PANELS, THERMAL OVERLOAD PROTECTION, CORDS AND PLUGS, ETC. MUST BE SPECIFIED AND PROVIDED BY EQUIPMENT PROVIDER.
3. WORK BY ANY TRADE INDICATED ON THESE PLANS DOES NOT NECESSARILY REFLECT COMPLIANCE WITH EACH TRADE'S RESPECTIVE CODES, ORDINANCES AND REGULATIONS AND THEREFORE DOES NOT RELIEVE THEM OF THEIR RESPONSIBILITY TO ASSURE SUCH.
4. All dimensions and conditions must be verified at the job site. Details shown are typical.
5. All dimensions when shown in plan are to face of finished surfaces unless otherwise noted. Installer must verify all field dimensions and relay any discrepencies and problems to the designer and PM for resolution in a timely manner.
6. Contractors, subcontractors, sheetmetal fabricators and trades shall provide and submit their own necessary rough-in plans, elevations and drawings.
7. General contractor shall provide all ceiling, wall and floor penetrations and all sleeves for plumbing, electrical, refrigeration and CO2 lines and ventilation ducts as required. All penetrations and remote location sites must be verified and approved by project engineers.
8. A fire suppression system conforming to all local codes and specifications shall be fitted to all required equipment and hoods and shall be specified and shown on a separate drawing by food service equipment supplier.
9. Plumbing contractor shall select, provide and locate correctly-sized grease traps, floor sinks, drains as required and co-ordinate the installation of these to comply with the requirements as specified by the foodservice equipment supplier.
10. Any errors, omissions or conflict found in the various parts of the schematic documents shall be brought to the attention of the architect and/or project manager before proceeding with the work.
11. Foodservice equipment supplier agrees to carry out commissioning on all equipment, materials, and systems in accordance with manufacturer's recommendations and upon completion of the installation at such time as designated by employer or project manager.
12. Foodservice equipment supplier warrants all standards, fabrications and designs meet or exceed local environmental health, fire and safety codes and regulations. Any issue, design or standard of manufacture found to not meet these codes and regulations shall be brought to the attention of the architect and/or project manager before proceeding with the work.
13. All equipment must be NSF approved.

<u>Schedule of drawings referenced in this document:</u>

FS1.0	Foodservice Equipment Title Page
FS2.0	Foodservice Equipment Plan & Schedule
FS3.0	Foodservice Plumbing Plan
FS4.0	Foodservice Electrical Plan
FS5.0	Foodservice Special Conditions
FS6.0	Spare Sheet
FS7.0	Standard Details for Foodservice Equipment
H-1	Hood Drawing



GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	Addendum #2.1
2.2	10.03.17	Addendum #2.2

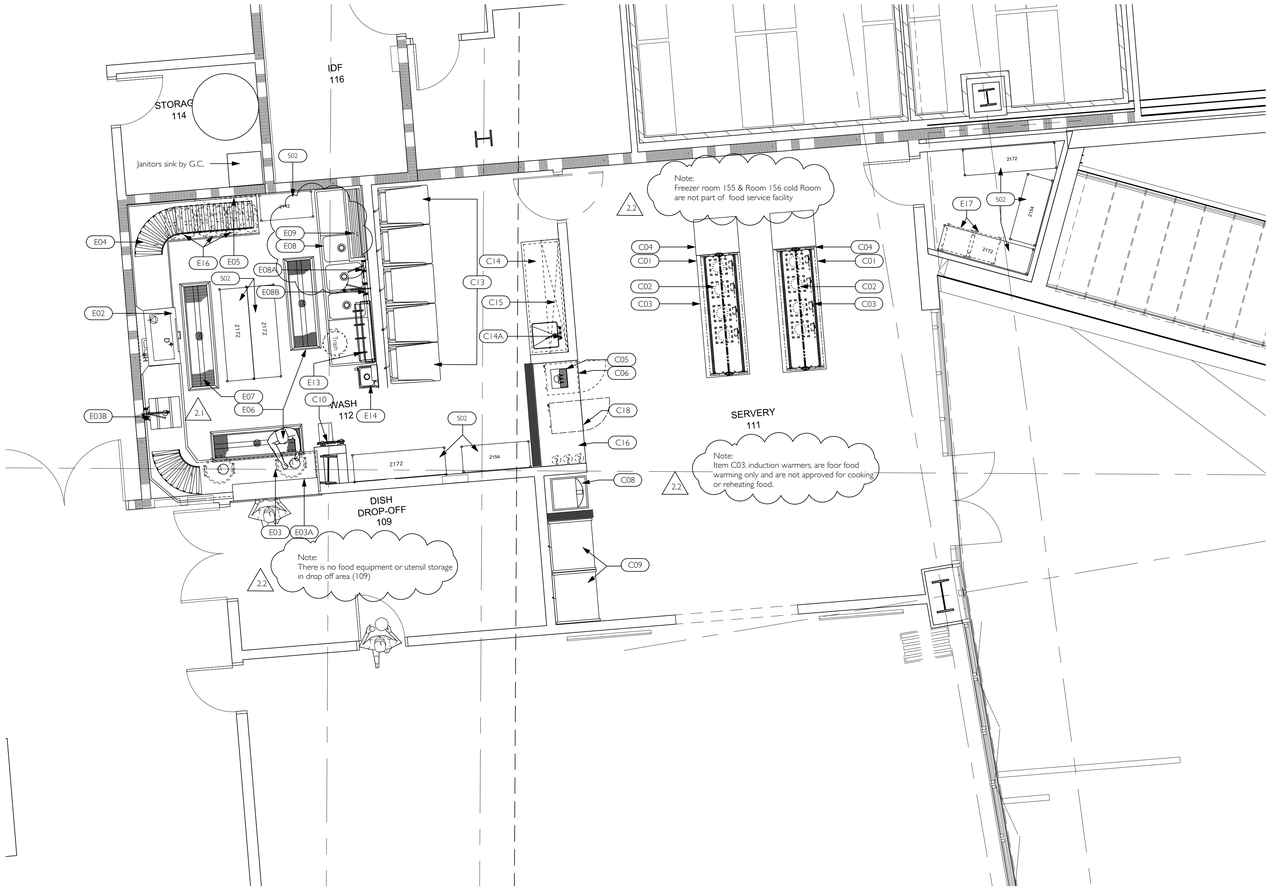
City Submittal Set
08.08.17

Sheet Title

Food Service Equipment
Title Page
Scale: N?A

Sheet No.

2FS1.0



Equipment Schedule

Item #	QTY	Description	Manufacturer	Model	Furnished By	Electrical	Ph	Amps	Elec. Hgt. AFF	Electric Location	Electric Info	Gas	BTU	Gas Hgt. AFF	CW	HW	Filtered Water	Water Hgt. AFF	Drain	Drain Hgt. AFF	Plumbing Info	Electric Notes	Other Information
C01	2	Entree Counter (mobile)	Millwork	Custom	KEC	L5-30P																		
C02	4	Sneeze guards (movable) dbl. sided & top	BSI	ZG7600	KEC																			
C03	8	Induction unit/warmer	Cook teck	B652-U2	KEC	120/60	1	15.0 amps (ea.)	+24" AFF	Die wall	J-box													
C04	2	Counter (mobile)	Millwork	Custom	KEC	L5-20P																		
C05	1	Dispenser	Crysalli	CBR-V3	KEC	120/60	1	9.6 amps	18"	Wall	Hard Wired				3/8"			12"	1" Indirect	Floor Sink	To floor sink		
C06	1	Under counter refrigerator	True	TUC-27	KEC	115/60	1	2.5 amps	+16" AFF	Die Wall	NEMA 5-15P													
C07	-	Spare number			KEC																			
C08	1	Soda dispenser	Coca-Cola	Freestyle	KEC	115/60	1	20.0 amps	+32" AFF	Wall					3/8""			+10" AFF	1" indirect waste		to floor sink			
C09	2	Air Curtian Display case	Infrico	IAG-EML9INOXM1	KEC	115/60	1	13.0	+12" AFF	Wall	NEMA 5-20P													
C10	1	Water filter	Everpure	EV-9437-30	KEC										3/4"			+120" AFF						
C11	-	Spare number			KEC																			
C12	-	Spare number			KEC																			
C13	5	Hot /cold transport carts	Cambro	CMBHC1826TBF-191 (granite gray)	KEC	110/60	1	9.1	+12" AFF	Wall	NEMA 5-15P													
C14	1	PREP TBALE	FABRICATOR	CUSTOM.	KEC														1" indirect waste		To floor sink			
C14A	1	Faucet	T&S	B-0221-CC	KEC										1/2"	1/2"								
C15	1 lot	Smart wall shelving	Metro	TBD	KEC																			
C16	1	Beverage counter	Millwork	Custom	KEC																			
C17	-	Spare number			KEC																			
C18	1	Freezer	True	TUC-27F-LP-HC (-10 degrees)	KEC	115/60	1	5.0	+16" AFF	Die Wall	NEMA 5-15P													
E01	-	Spare number			KEC																			
E02	1	Warewasher	Champion	44-Pro VHR	KEC	208/60	3	75.5	+60 " AFF	Wall	J-box					3/4"			1-1/2" indirect waste		To floor sink			
E03	1	Soiled dishtable	Champion	Custom	KEC																			
E03A	1	Two tiered drop-off shelving in framed wall opening	Champion	Custom	KEC																			
E03B	1	Pre-rinse w/ faucet	T & S Brass	B-2261-12-CR-B	KEC																			
E04	1	Clean dishtable w/rollers/shut off switch	Champion	Custom	KEC																			
E05	2	Wall Shelf	Advance Tabco	PS-18-48																				
E06	2	Floor trough	Fabricator	Custom	KEC														3" Direct	-4"				
E07	1	Floor trough	Fabricator	Custom															3" Direct	-4"				
E08	1	Three comp sink	Advance	94-83-60-36RL	KEC														1-1/2" indirect waste		To floor sink			
E08A	1	Splash-mount Faucets 12" Spiggot	T&S Brass	B-0231-B-WHB																				
E08B	1	Pre-rinse w/ faucet	T & S Brass	B-2261-12-CR-B																				
E09	2	Barred wall shelves	Fabricator	Custom	KEC																			
E10	-	Spare number			KEC																			
E11	-	Spare number			KEC																			
E12	-	Spare number			KEC																			
E13	1	Pot rack	Fabricator	Custom	KEC																			
E14	1	Hand sink, wall mount, knee valve'side splashes	Advance-Tabco	7-PS-82 (K-08 aerator)											1/2"	1/2"		18"	1-1/2" Direct	12"				
E15	-	Spare number			KEC																			
E16	4	Plate dollies	Metro	PCD11A/AD11A/PCDV11A	KEC																			
E17	2	Glass rack dollie	Metro	DH2020N	KEC																			
S01	-	Spare number			KEC																			
S02	1 lot	Dry storage shelving	Metro	Super Erecta	KEC																			

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08.08.17

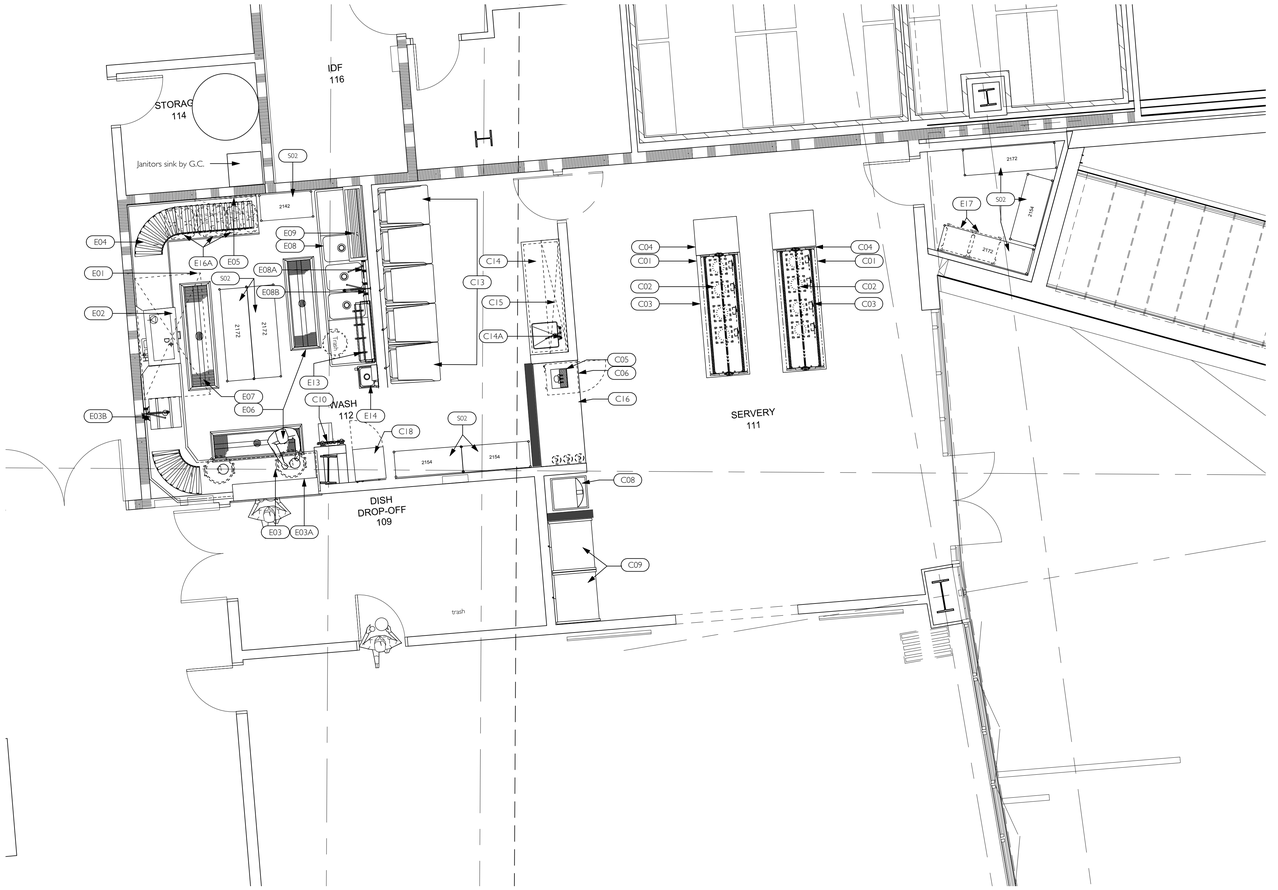
Sheet Title

Food Service Equipment
Plan & Schedule
Scale: 1/4"=1'-0"

Sheet No.

2FS2.0

DPR Issued Sheet 2017-10-03
Link to the Sheet - 2G-002



		Equipment Schedule																				
Item #	QTY	Description	Manufacturer	Model	Furnished By	Electrical	Ph	Amps	Elec. Hgt. AFF	Electric Location	Electric Info	Gas	BTU	Gas Hgt. AFF	CW	HW	Filtered Water	Water Hgt. AFF	Drain	Drain Hgt. AFF	Plumbing Info	Electric Notes	Other Information
C01	2	Entree Counter (mobile)	Millwork	Custom	KEC	L5-30P																	
C02	4	Sneeze guards (movable) dbl. sided & top	BSI	ZG7600	KEC																		
C03	8	Induction unit	Cook teck	B652-U2	KEC	120/60	1	15.0 amps (ea.)	+24" AFF	Die wall	J-box												
C04	2	Counter (mobile)	Millwork	Custom	KEC	L5-20P																	
C05	1	Dispenser	Crysalli	CBR-V3	KEC	120/60	1	9.6 amps	18"	Wall	Hard Wired				3/8"				1" Indirect	Floor Sink	To floor sink		
C06	1	Under counter refrigerator	True	TUC-27	KEC	115/60	1	2.5 amps	+16" AFF	Die Wall	NEMA 5-15P												
C07	-	Spare number			KEC																		
C08	1	Soda dispenser	Coca-Cola	Freestyle	KEC	115/60	1	20.0 amps	+32" AFF	Wall					3/8""			+10" AFF	1" indirect waste		to floor sink		
C09	2	Air Curtian Display case	Infrico	IAG-EML9INOXM1	KEC	115/60	1	13.0	+12" AFF	Wall	NEMA 5-20P												
C10	1	Water filter	Everpure	EV-9437-30	KEC										3/4"			+120" AFF					
C11	-	Spare number			KEC																		
C12	-	Spare number			KEC																		
C13	5	Hot /cold transport carts	Cambro	CMBHC1826TBF	KEC	110/60	1	9.1	+12" AFF	Wall	NEMA 5-15P												
C14	1	PREP TBALE	FABRICATOR	CUSTOM	KEC														1" indirect waste		To floor sink		
C14A	1	Faucet	T&S	B-0221-CC	KEC										1/2"	1/2"							
C15	1 lot	Smart wall shelving	Metro	TBD	KEC																		
C16	1	Beverage counter	Millwork	Custom	KEC																		
C17	-	Spare number			KEC																		
C18	1	Freezer	True	T-19F	KEC	115/60	1	6.8	+16" AFF	Die Wall	NEMA 5-15P												
E01	1	Vapor hood	Strevior Air	TBD	KEC																		
E02	1	Warewasher	Champion	44-Pro	KEC	208/60	3	111.0	+60 " AFF	Wall	J-box					3/4"			1-1/2" indirect waste		To floor sink		
E03	1	Soiled dishtable	Champion	Custom	KEC																		
E03A	1	Two tiered drop-off shelving in framed wall opening	Champion	Custom	KEC																		
E03B	1	Pre-rinse w/ faucet	T & S Brass	B-2261-12-CR-B	KEC																		
E04	1	Clean dishtable w/rollers/shut off switch	Champion	Custom	KEC																		
E05	2	Wall Shelf	Advance Tabco	PS-18-48																			
E06	2	Floor trough	Fabricator	Custom	KEC														3" Direct	-4"			
E07	1	Floor trough	Fabricator	Custom															3" Direct	-4"			
E08	1	Three comp sink	Advance	94-83-60-36RL	KEC														1-1/2" indirect waste		To floor sink		
E08A	1	Splash-mount Faucets 12" Spiggot	T&S Brass	B-0231-B-WH6																			
E08B	1	Pre-rinse w/ faucet	T & S Brass	B-2261-12-CR-B																			
E09	2	Barred wall shelves	Fabricator	Custom	KEC																		
E10	-	Spare number			KEC																		
E11	-	Spare number			KEC																		
E12	-	Spare number			KEC																		
E13	1	Pot rack	Fabricator	Custom	KEC																		
E14	1	Hand sink, wall mount, knee valve'side splashes	Advance-Tabco	7-PS-82 (K-08 aerator)											1/2"	1/2"		18"	1-1/2" Direct	12"			
E15	-	Spare number			KEC																		
E16	4	Plate dollies	Metro	PCD11A/AD11A/PCDV11A	KEC																		
E16A	3	Dish carts	Metro		KEC																		
E17	2	Glass rack dollie	Metro	DH2020N	KEC																		
S01	-	Spare number			KEC																		
S02	1 lot	Dry storage shelving	Metro	Super Erecta	KEC																		

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET

City Submittal Set
08.08.17

Sheet Title

Food Service Equipment
Plan & Schedule
Scale: 1/4"=1'-0"

Sheet No.

2FS2.0

PLUMBING NOTES

Note: All locations for connections sizes and runs are approximate and relative only to itemized food service equipment. Items not labeled either in the schedule or directly on the drawing are to be determined and verified on construction contract drawings. ALL WORK SHOWN ON THE PLUMBING PLANS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED.

1. All work must be verified by site measurements and with the final equipment selection. Equipment makes and models may change and will thus affect final placement. Verify all work with foodservice equipment installer's final rough-in plans.

2. Height details are for stub-outs and are to be measured above finished floor level Stub-outs to extend 4" beyond finished walls and 6" above finished floor or top of equipment pad. All appliance connections must be verified with foodservice equipment installer's final specifications and rough-in details.

3. Connections to grease traps and location of same must be made in accordance with local codes and requirements and must be reviewed and approved by owner. appropriate inspectors and MDI.

4. All gas appliances must be connected with properly sized regulators. Verify with foodservice equipment installer's final specifications.

5. All plumbing materials, including pipes, traps, stops, valves, fittings, vacuum breakers, hammer-arrestors, pressure reducing valves, gauges, unions and insulation are to be provided by the plumbing trades. These items must be connected so as not to interfere with the operation or use of the equipment. It is the responsibility of the plumbing trades to insure the proper sizing, fit and utilization of these according to manufacturer's specifications.

6. All plumbing labor including mounting of drains, faucets and connections from point-of-connection on equipment to rough-in point as shown schematically on these plans is to be provided by plumbing trades.

7. Utilities are to be concealed in walls wherever possible. Exposed pipes or conduit must be approved by architect or owner.

8. All lines are to be flushed free of debris and foreign matter and line strainers cleaned prior to make-up of final utility connection.

9. Drain lines from evaporator coils must be trapped outside of refrigerated area and extended over building drain.

10. Gas main to be provided with a readily accessible manual shut-off valve by plumbing trades. A looped gas service is recommended to provide for balanced fuel distribution. Size of gas main to be determined by architect or architect's engineers.

11. Plumbing requirements for water wash hoods and hood fire protection systems will be detailed in rough-in plans supplied by others. Mechanical or electrical gas solenoid shut-off valves to be used with the fire protection system to be provided by plumbing trades per specifications supplied by hood provider. Kitchen equipment supplier will show final location for Ansul/gas emergency shut-off points once these have been coordinated with building engineers, hood manufacturer and MDI.

12. Water wash ventilators and wash down control panels will be furnished with loose components. Plumbing trades will be responsible for all interconnections per manufacturer's instructions.

13. Kitchen Equipment Contractor to provide and install indirect waste runs from walk-in evaporator coils. Connections through walls to be coordinated with project architect. Freezer runs are to be heated and insulated.

14. Locations for floor drains are suggested. Building engineer and plumbing engineer to co-ordinate existing drains and locations with those shown on this plan and review same with architect and MDI.

15. Furnish all large items in pre-piped sections. All connections are to be clearly labeled. Written connection instructions from manufacturer are to be provided to the plumbing trades. Plumbing trades to make final connections between sections.

16. Steam lines are to be installed per local codes. All exposed lines to be insulated and covered either in chrome-plated or stainless steel sleeves.

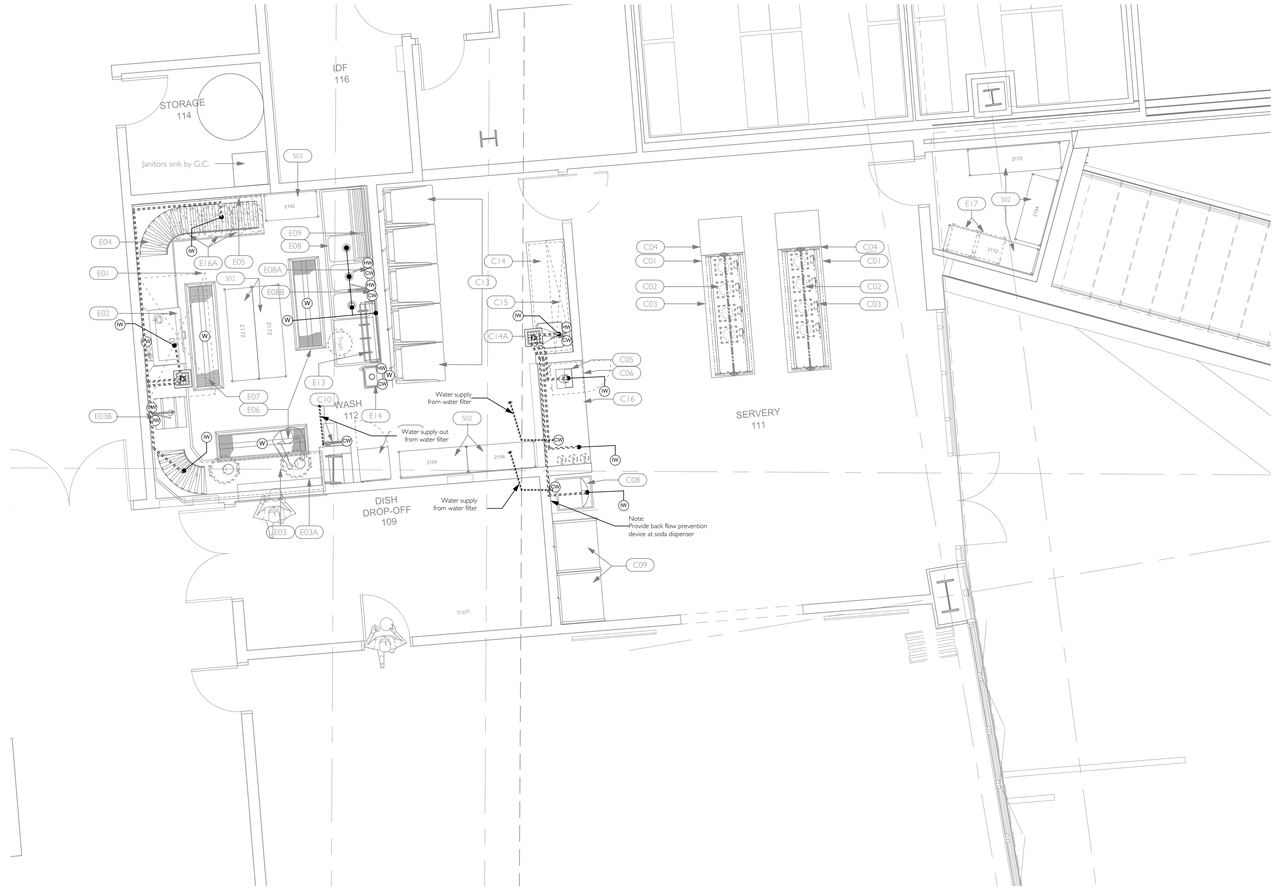
17. Food service equipment contractor to furnish all gate valves strainers condensate traps, temperature controllers check valves and interconnecting piping within steam using equipment. Plumbing trades to blow out lines and make all final connections between equipment and stub outs.

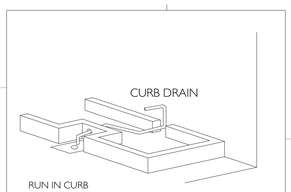
18. Carbonated liquid waste piping shall be of corrosive resistive material. Do not use copper piping or cast iron until proper neutralization or dilution has occurred. CPC 811.

19. No exposed ABS (plastic piping with flame-spread rating of 75 or more.) can be used CPC 311.11

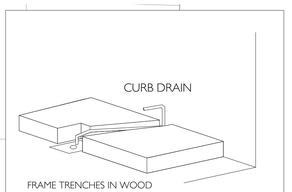
PLUMBING SYMBOLS LEGEND

- (W) Direct Waste Connection
- (IW) Indirect Waste Connection
- (CW) Cold Water Connection
- (HW) Hot Water Connection
- FS Floor Sink: Use 1/2 Or 3/4 Grate Cover Wherever Possible
- (PD) Reduced-size Hub Drain For Indirect Waste (where Permitted)
- Floor Drain (location Suggested Only Verify W/ Plumbing Req & Local Codes)
- (G) Gas Connection
- (R) Remote Refrigeration Connection (routing Per KEC)
- (CC) Building Chilled Water Loop Connection
- (CR) Building Chilled Water Loop Return

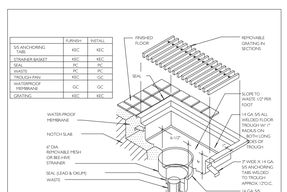




CONDENSER DRAIN DETAIL - N.T.S.



CONDENSER DRAIN DETAIL - N.T.S.



	FURNISH	INSTALL
SS ANCHORING TABS	KEC	KEC
STRAINER BASKET	KEC	KEC
SEAL	PC	PC
WASTE	PC	PC
TROUGH ITSELF	KEC	GC
WATERPROOF MEMBRANE	GC	GC
GRATING	KEC	KEC

FLOOR TROUGH SECTION - NTS

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET

City Submittal Set
08.08.17

Sheet Title

Food Service Equipment
Plumbing Plan
Scale: 1/4"=1'-0"

Sheet No.

2FS3.0

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

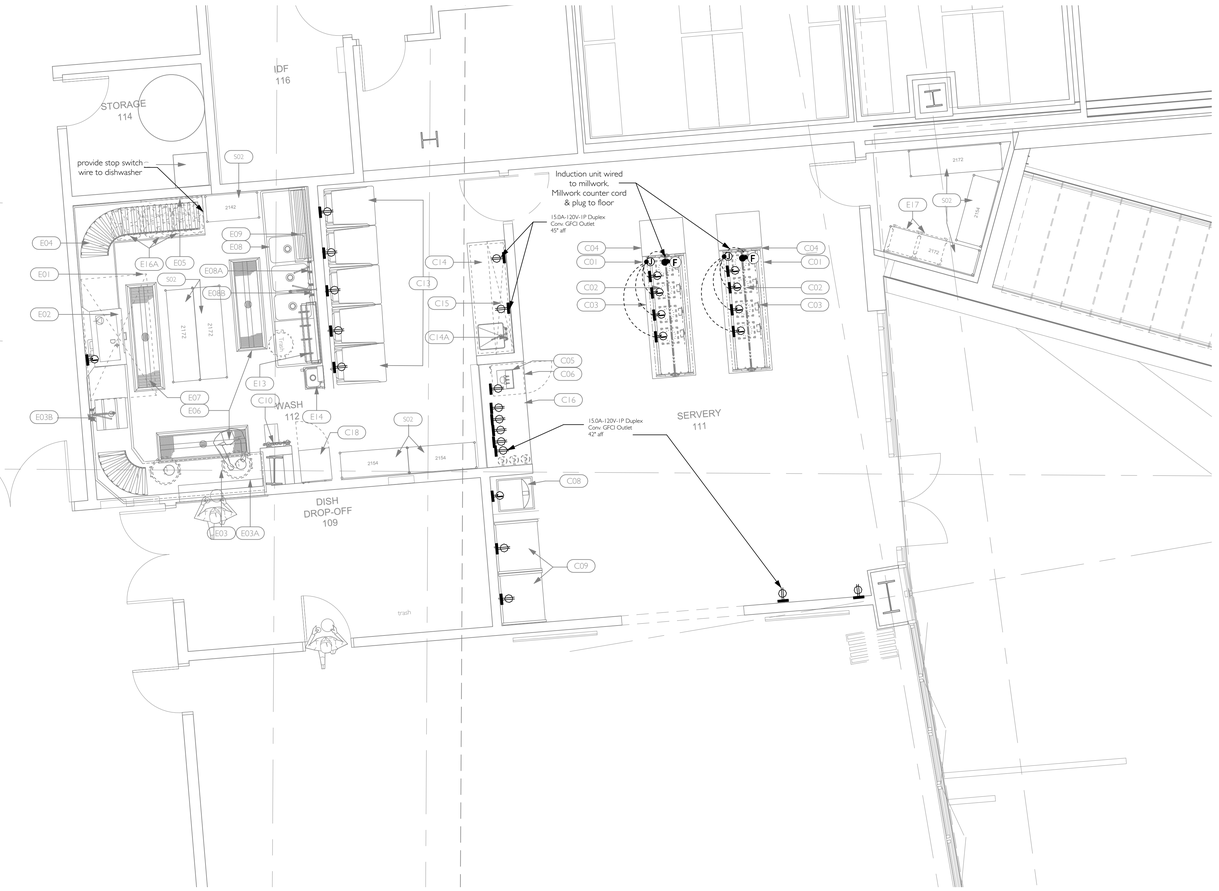
ELECTRICAL NOTES

Note: All locations for connections, sizes and conduit runs are approximate and relative only to the foodservice equipment noted on these plans. Items not labeled either in the schedule or directly on the drawing are to be determined and verified on construction contract drawings. ALL WORK SHOWN ON THE ELECTRICAL PLANS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.

1. All work must be verified by site measurements and with the final equipment selection. Equipment makes and models may change and will thus affect final placement. Verify all work with foodservice equipment installer's final rough-in plans.
2. Height details are for point of connection and are to be measured above finished floor level to centerline of outlet or point of connection. Stub-outs to extend 6" beyond finished walls and 6" above finished floor or top of equipment pad. All appliance connections must be verified with foodservice equipment installer's final specifications and rough-in details.
3. Utilities shown and listed are the minimum required to operate equipment. Locations of any additional utilities must be located and specified by the project architect or project engineer.
4. Final connections to equipment and inter-connections between equipment where necessary are to be made by electrical trades. Items of fabricated equipment which require electrical service are to be pre-wired to a junction box or terminal panel, ready for connection by electrical trades. Any variation from this, or lack of proper connection on any give item must be brought to the attention of the project architect and MDI before any changes are made or modifications done to any piece of equipment.
5. All electrical materials including wire, conduit, main switches, safety cut-outs, junction boxes, fuse boxes, shunt-trip breakers, disconnect switches and controls are to be provided by electrical trades. Electrical trades to furnish and install lock-out devices on circuit breakers controlling ventilation, refrigeration and fire suppression control panels.
6. Utilities are to be concealed in walls and stubbed out at appropriate locations. Do not run surface mounted conduit or wire. Electrical trades to furnish and install conduit and pull boxes for all beverage refrigeration and wash down system lines. Conduit to be round with minimum 24" radius bends and to terminate 4" above finished floor, 6" beyond wall or flush with the tops of equipment pads. Pull boxes must be located every 75 feet or per every three bends, whichever occurs first.
7. Electrical components of any kind, including switches, fuse boxes, panels, disconnects, conduit, or other connections must be installed so as to not interfere with the operation or use of the food-service equipment.
8. Amperages indicated are for each unit shown and do not reflect any additional requirements for HP or kW listed.
9. NEMA numbers must be verified with the appropriate cut sheet information before final installation of duplexes or surface mounted items. All direct connections are to be made by electrical trades.
10. Motors exceeding 1 horsepower or appliances with heating elements exceeding 5.0 kW must generally be connected to 3 phase electrical service and provided with overload protection and a quick disconnect switch wherever necessary. Electrical trades must verify these requirements with project engineer before connection.
11. Control and power wiring between electrical defrost evaporator time clock, temperature control device and condensing unit by electrical trades. Verify final connection with refrigeration shop drawings and installer's final rough-in plans.
12. Drain line from freezer coils are to wrapped with heater cables, taped and insulated by electrical trades.
13. Walk-in lighting, door and drain heaters and fan and coil connections to be connected and inter-wired by electrical trades.
14. Control and power wiring between the ventilator control panel, ventilators, exhaust and supply fan magnetic starters, shunt-trip breakers, and/or contactors, remote fire pull stations, detergent dispensing systems, fenwall detectors and other ancillary components to be shown in engineer's drawings and installed by electrical trades. Engineer to refer to ventilation shop drawings and co-ordinate with installer's final rough-in plans for all final connections and requirements.
15. Fire protection system remote fire cable pull box to be recessed into wall and installed per manufacturer's and project engineer's specifications.
16. Computer grade isolated and grounded wiring is required for computerized cash registers, printers, and connected devices. Verify exact locations with POS equipment supplier.

ELECTRICAL SYMBOLS LEGEND

- Junction Box At Noted Height Above Finished Floor
- 120w/1ph Convenience Outlet
- Convenience Outlet Furnished With Equipment
- Convenience Outlet 208w/1ph
- Convenience Outlet 208w/3ph
- Convenience Outlet 208-240v/1ph Mounted On Equipment
- Drop Cord From Ceiling
- Junction Box At Noted Height As Part Of Equipment
- Waterproof Stub Up Through Floor
- Flex Feeder (36" Tail Exposed)
- Switch Wired to Equipment
- POS Connection - provide Low Voltage Conduit & Cabling Per Vendor
- Telephone Connection
- Vaporproof Light Furnished With Equipment
- Pull Box Or Breaker Panel Supplied With Equipment


IDF
116
STORAGE
114
provide stop switch wire to dishwasher
Induction unit wired to millwork. Millwork counter cord & plug to floor
15.0A-120V-1P Duplex Conv. GFCI Outlet 42" aff
15.0A-120V-1P Duplex Conv. GFCI Outlet 42" aff
WASH
112
SERVERY
111
DISH
DROP-OFF
109
trash
E01
E02
E03
E03A
E04
E05
E06
E07
E08
E08A
E08B
E09
E10
E13
E14
E16A
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E038
C01
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S02
2142
2172
2154
2172
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2154

ELECTRICAL NOTES

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11. Control and power wiring between electrical defrost evaporator time clock, temperature control device and condensing unit by electrical trades. Verify final connection with refrigeration shop drawings and installer's final rough-in plans.
12. Drain line from freezer coils are to wrapped with heater cables, taped and insulated by electrical trades.
13. Walk-in lighting, door and drain heaters and fan and coil connections to be connected and inter-wired by electrical trades.
14. Control and power wiring between the ventilator control panel, ventilators, exhaust and supply fan magnetic starters, shunt-trip breakers, and/or contactors, remote fire pull stations, detergent dispensing systems, fenwall detectors and other ancillary components to be shown in engineer's drawings and installed by electrical trades. Engineer to refer to ventilation shop drawings and co-ordinate with installer's final rough-in plans for all final connections and requirements.
15. Fire protection system remote fire cable pull box to be recessed into wall and installed per manufacturer's and project engineer's specifications.
16. Computer grade isolated and grounded wiring is required for computerized cash registers, printers, and connected devices. Verify exact locations with POS equipment supplier.

ELECTRICAL SYMBOLS LEGEND

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- Convenience Outlet Furnished With Equipment
- Convenience Outlet 208w/1ph
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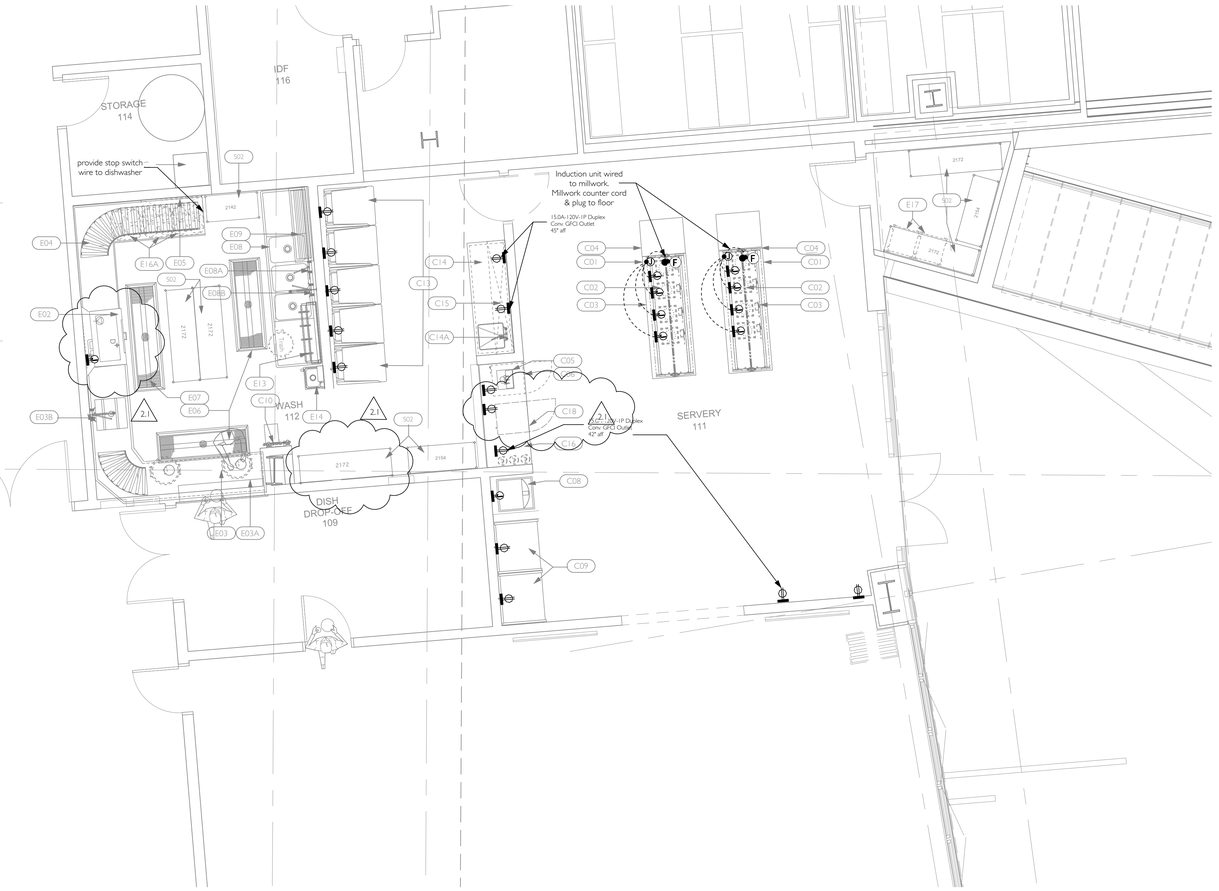
- Junction Box At Noted Height As Part Of Equipment
- Waterproof Stub Up Through Floor
- Flex Feeder (36" Tail Exposed)
- Switch Wired to Equipment
- POS Connection - provide Low Voltage Conduit & Cabling Per Vendor
- Telephone Connection
- Vaporproof Light Furnished With Equipment
- Pull Box Or Breaker Panel Supplied With Equipment



1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET
	08.29.17	Addendum #2.1

City Submittal Set
08.08.17

Sheet Title

Food Service Equipment
Electrical Plan
Scale: 1/4"=1'-0"

Sheet No.

2FS4.0

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

NOTE:

Special conditions for preparation of the building site for the installation of foodservice equipment are shown schematically on this plan. Requirements for penetrations for plumbing fixtures piping or vents, (including floor sinks) electrical stub ups are not shown. Refer to FS-4.0, FS-4.1, FS-5.0,& FS-5.1 for these locations.

Best routing for services, connections, conduits and chases for interconnecting foodservice equipment shall be coordinated between the general contractor and the foodservice equipment contractor prior to installation.

All new walls, depressions, raised curbs, wall backing, ceiling supports, unistrut, new ceilings, lights and fixtures not specifically numbered in the equipment schedule are to be installed by the General Contractor and are not part of the kitchen equipment contract (NIKEC.)

It is however, required that the kitchen equipment contractor (KEC) coordinate and verify all required conditions for the installation of all scheduled equipment and provide the General Contractor with all required information and clarifications necessary for the installation of the final selection of equipment.

All changes in make and model, redesigned custom items, and alternative methods of installation will require proper and timely notification by the KEC to the project manager and general contractor so that accommodation for these changes can be made prior to installation.

SANITARY CONSTRUCTION

Sanitary Construction Guidelines:

G.C. shall be responsible for constructing facility to satisfy the requirements of the local health department or other applicable enforcement agency. the following guidelines are intended to be used only for general information. Prior to construction, the G.C. shall request a copy of the construction guidelines for the health department or agency having jurisdiction over this project and follow the information provided. the following information applies mainly to preparation, service, storage, clean up, refuse, beverage, and changing areas. Verify with local health departments.

Floors:

Floors shall be smooth, impervious and easily cleanable. Floor base shall extend a minimum of 4" up the wall (6" preferred) with a 3/8" minimum radius seamless coved base, integral to the floor surface. Toe kicks shall meet the same requirements.

Wall And Ceilings:

Walls shall be smooth, nonabsorbent, and washable. Color shall be light and wall shall be painted with a gloss or semi-gloss enamel paint.

Acoustical ceiling tiles, if used, shall be capaul " vinyl rock" #1140 CRF or equal.

Conduit:

All plumbing, electrical, and other conduit shall be concealed within the building walls, floors or ceiling or within approved conduit runs.

All exposed termination points of conduit shall be sealed tightly.

Doors And Windows:

All openable windows shall be covered with not less than #16 mesh screening.

All exterior doors shall be self closing of fitted with an approved air curtain.

All exterior pass through windows shall be screened/self closing or be fitted with an approved air curtain.

Vermin Exclusion Devices:

Additional vermin exclusion devices shall be provided as required by local health department.

Custom Millwork:

Custom millwork shall be provided that is easily cleanable, smooth, and impervious. Plastic laminated or equal shall be provided on all surfaces of shelving and cabinetry. Hardware shall be of the type to discourage harborage of vermin.

Custom Sheet Metal:

All custom sheetmetal work shall meet the requirements of all applicable N.S.F. standards.

Floor Sinks:

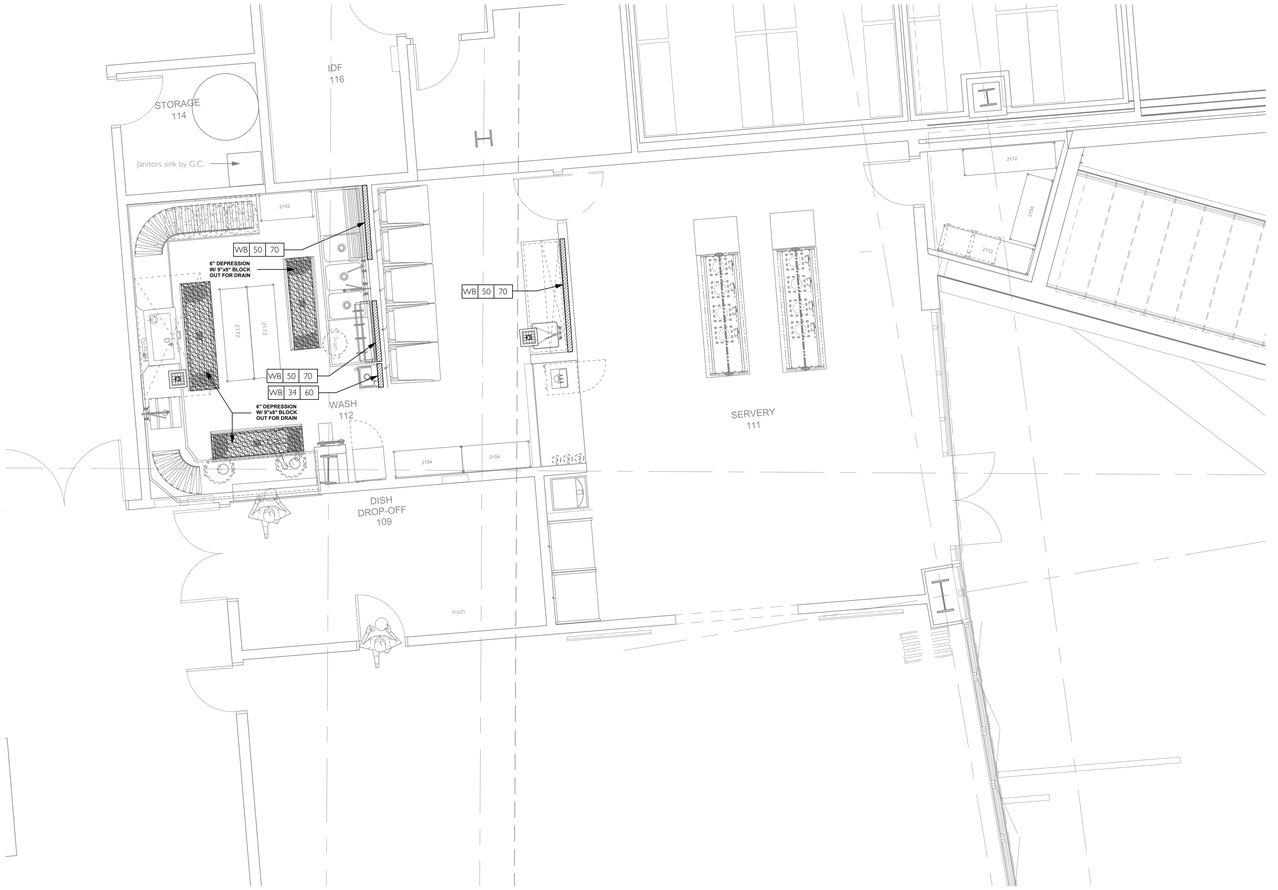
Floor sinks, where required, shall be installed per all codes and 1/2 exposed for easy accessible for cleaning. Ensure that floor sinks are boxed out of stationary cabinetry to be fully exposed.

Lighting:

shatterproof shields for all lamps and/or light fixtures shall be provided in all areas where food is exposed.

Construction Joints:

All construction joints, cracks, and crevices at all counters, cabinets, bars, and other similar areas be sealed. Sealing shall be done with and approved caulking type sealant.



GENERAL BUILDING SYMBOLS LEGEND

Raised Curb Areas	Non-combustible Wall Construction
Floor Sink - 5" Depression or as needed	Corner Guards By G.C. (NIKEC) (mount To 60" from coved floor)
Suggested location for Area Drain	Unistrut Bracing By KEC Above Drop Ceiling Braced To Building Beams Rated To Specific Load Hood Hangers Representational Only. See Shop Drawings For Verification
Reduced-size Hub Drain For Indirect Waste (where Permitted)	
Prepared smooth & level slab (or 6" Depression in slab if so noted)	
Wall Blocking By G.C From Noted Height To Noted Height In Inches	KEC Kitchen Equipment Contractor
	NIKEC Not In Kitchen Equipment Contract
	GC General Contractor

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET

City Submittal Set
08.08.17

Sheet Title

Food Service Equipment
Special Conditions Plan
Scale: 1/4"=1'-0"

Sheet No.

2FS5.0

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

VENTILATION NOTES

Note: All locations for connections, sizes and conduit runs are approximate and relative only to the foodservice equipment noted on these plans. Items not labeled either in the schedule or directly on the drawing are to be determined and verified on construction contract drawings. THE INFORMATION SHOWN ON THE VENTILATION PLANS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.

1. Ventilation requirements are relative only to itemized food service equipment. see construction contract documents for additional ventilation requirements. Required make-up air is not shown on these plans.
2. Dimensions are for general information purposes and are approximate indications from face or finish walls, finish floor of finished ceiling. Include allowance for thickness of finished materials. Verify exact location, size and other requirements with dimensioned shop drawings provided by the kitchen equipment contractor.
3. Provide and install exhaust and make-up air ducts with fans. Kitchen equipment contractor shall provide all exposed equipment duct work to ceiling and make final duct connections. All air scrubbers, smog-control devices, filtration systems and noise abatement systems are the responsibility of the general contractor.
4. Cooking equipment exhaust system shall be designed as a separate and individual system. Duct joints to be welded and grease proof. Horizontal ducts shall be pitched back to ventilator per local codes. Exhaust fan design shall provide for all exhaust system losses, including grease and vapor extraction friction loss for selected hood or ventilator shown in ventilation schedule.
5. Provide a tempered make-up air supply and distribution system to supply air velocities at acceptable levels to avoid drafts and flow disturbances under the hood or ventilator from the work side area of cooking equipment. Provide make-up air plan for approval by Müller Design Inc. and project chef.
6. Supply and exhaust in kitchen and other adjacent areas shall be balanced to prevent cooking odors and warmer air from entering public spaces.
7. In addition to specific requirements indicated, provide general room supply and exhaust to all food service area including storerooms to preclude soiled markings of ceiling or walls.
8. All refrigeration equipment areas shall be adequately ventilated to remove generated heat.

REFRIGERATION NOTES

Note: All locations for connections, sizes and conduit runs are approximate and relative only to the foodservice equipment noted on these plans. Items not labeled either in the schedule or directly on the drawing are to be determined and verified on construction contract drawings. REFRIGERATION SYSTEMS AND THEIR CONNECTIONS ARE THE RESPONSIBILITY OF THE FOODSERVICE EQUIPMENT CONTRACTOR.

1. Penetrations shall be provided by GC, lines run by KEC and final seal and closure by GC. All placement of line runs and inspections shall be coordinated with the GC.
2. The refrigeration service agent shall submit a roof mount pad design to GC constructed in such a way as to minimize all sound transmission to building interior.
3. Schedule and rack design is typical and subject to change. Foodservice equipment contractor must verify and resubmit revised plans to selected refrigeration service agency for final specifications.
4. A final and revised schedule of systems and compressors and routing plan for runs and penetrations must be submitted by the refrigeration service agent for approval by Müller Design Inc. and architect's engineers before proceeding with work.

REFRIGERATION & VENTILATION SYMBOLS LEGEND

- Remote Refrigerated Item Connected To Rack
- Remote Refrigerated Raised Rail On Refrigerated Base
- Remote Freezer Compartment Connected To Rack
- Exhaust Duct Connection (size Calcs. Approximate Per Current Equip. Selection)
- Make-up Air Plenum Duct Connection (size Calcs. Approximate Per Current Equip. Selection)



1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET

City Submittal Set
08.08.17

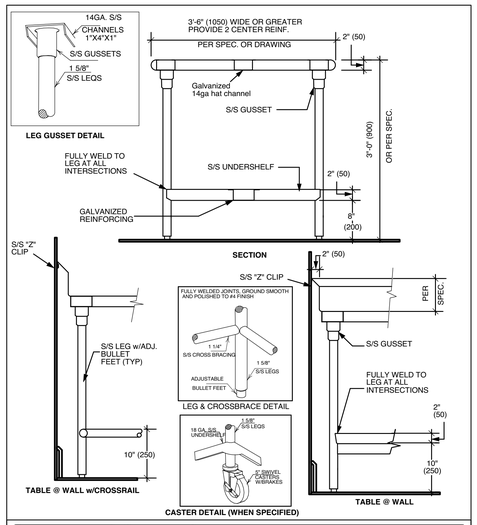
Sheet Title

Food Service Equipment
Ventilation Plan
Scale: 1/4"= 1'-0"

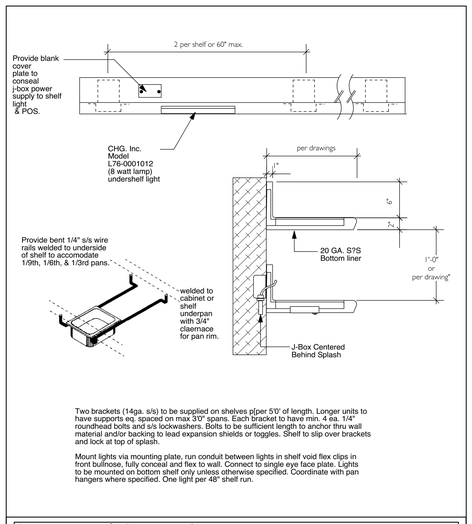
Sheet No.

2FS6.0

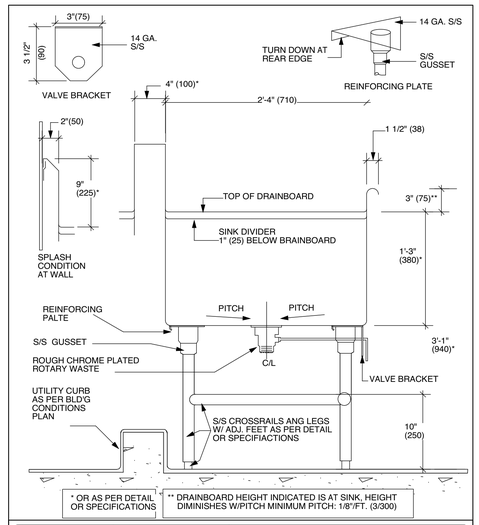
DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002



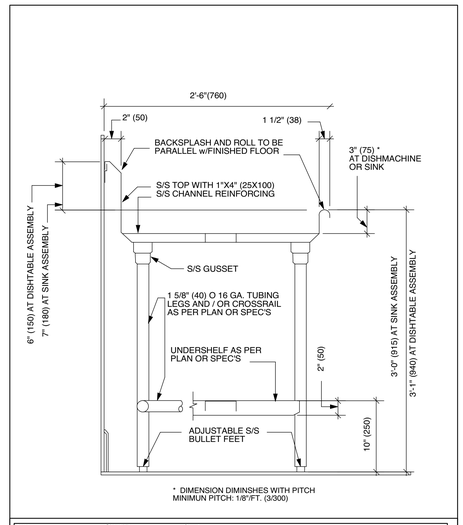
Area:	Sheet No.:	Sheet:
	SD001	OPEN BASE TABLE



Area:	Sheet No.:	Sheet:
	SD002	TYPICAL WALL SHELF

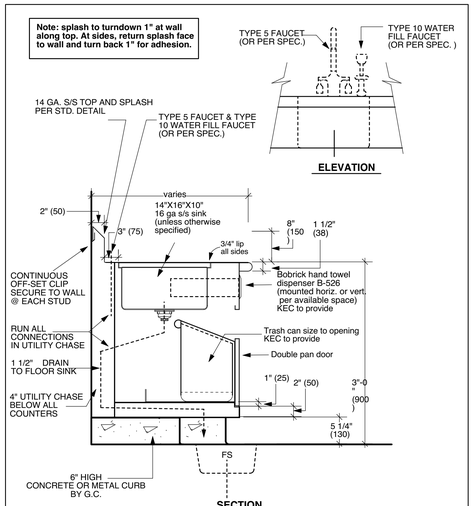


Area:	Sheet No.:	Sheet:
Dishwashing	SD003	DISHTABLE SINK



Area	Sheet No.:	Sheet:
Dishwashing	SD004	DISHTABLE & DRAIN BOARD

Note: splash to turndown 1" at wall along top. At sides, return splash face to wall and turn back 1" for adhesion.



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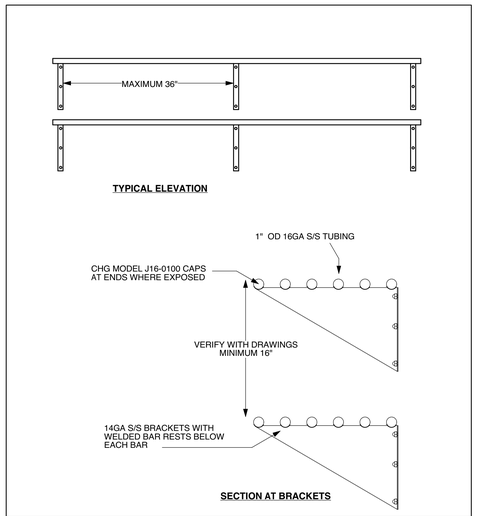
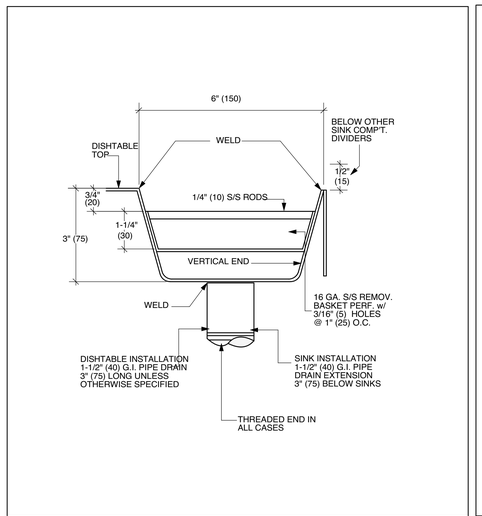
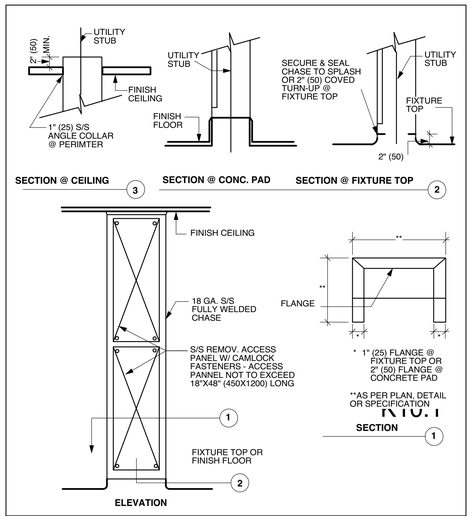
	SD005	TYPICAL COUNTER SINK



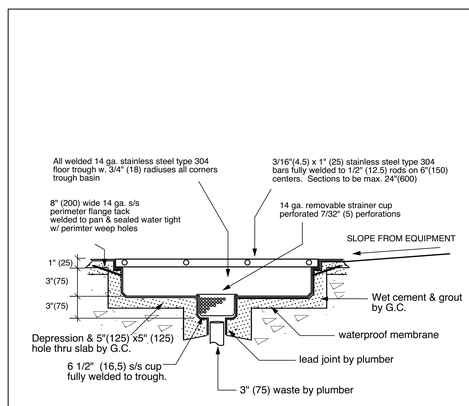
Area:	Sheet No.:	Sheet:
	SD006	TYPICAL BARRED WALL SHELF



Area:	Sheet No.:	Sheet:
	SD007	SCUPPER DRAIN



Area:	Sheet No.:	Sheet:
	SD008	UTILITY CHASE



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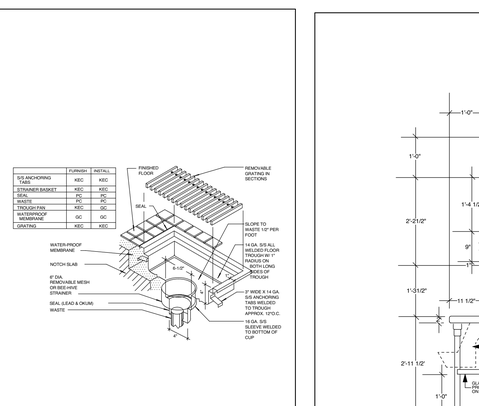
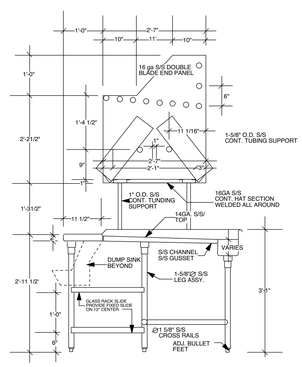
SD009	FLOOR TROUGH

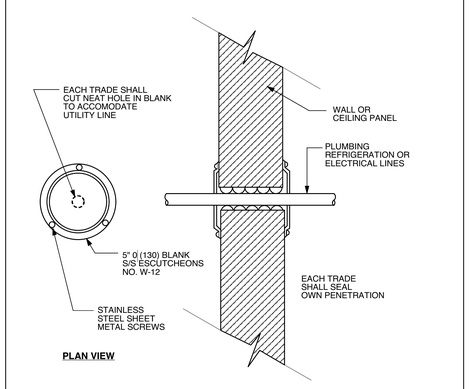


FLOOR TROUGH SECTION - NTS



ELEVATION - NTS

Area:	Sheet No.:	Sheet:
	SD010	Soiled Dishtable Construction



Area:	Sheet No.:	Sheet:
	SD011	UTILITY PENETRATION

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO	DATE ISSUED	REASON
	08.08.17	CITY SUBMITTAL SET

City Submittal Set
08.08.17

Sheet Title

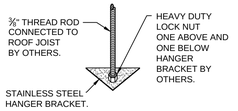
Food Service Equipment
Standrad Details
Scale: n/a

Sheet No.

2FS7.0

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

(A6) HANGER BRACKET



TREADED ROD AND LOCK NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR. HANGER BRACKET IS PRE-PUNCHED AT FACTORY

HOOD SCHEDULE

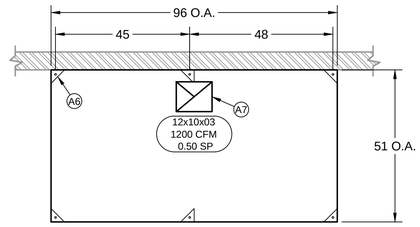
						EXHAUST			DIST. FROM COOKING SURFACE TO LOWER EDGE OF HOOD. (UL1)		MINIMUM OVERHANG OPEN SIDES (UL2) (UL3)		EQUIP. DUTY TEMPERATURE (UL4)
NO.	MODEL	L	W	H	WEIGHT	SPEC. CFM	MIN. CFM	SP	MIN.	MAX.	SIDE	FRONT	MAX.
E01	DMH150 965120.5	96	51	20.5	250	1200	1200	0.50	N/A	N/A	8	8	N/A

1. GREATER EXHAUST AND/OR LESSER SUPPLY AIR FLOW RATES MAY BE REQUIRED FOR COMPLETE VAPOR AND SMOKE REMOVAL IN SPECIFIC INSTALLATIONS).
2. THE EXHAUST FAN MUST BE OPERATED WHENEVER THE COOKING EQUIPMENT IS TURNED ON. (NFPA SECTION 11.1.1)

HOOD CANOPY MATERIAL: ALL 304 STAINLESS STEEL

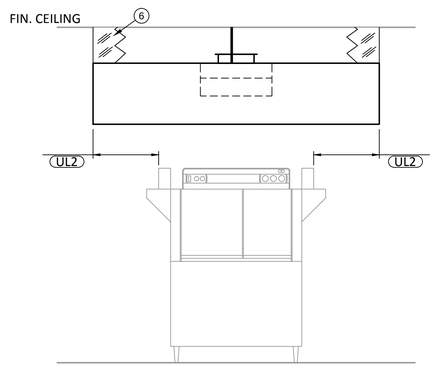
HOOD LEGEND

(6) ENCLOSURE PANEL: INCLUDED

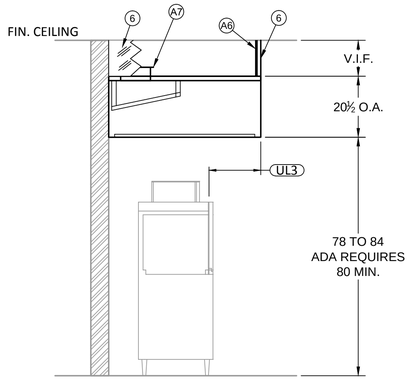


HOOD #E01
PLAN VIEW

HOOD #E01
NOT UL LISTED
(NOT REQUIRED FOR TYPE 2)

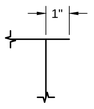


HOOD #E01
ELEVATION VIEW



HOOD #E01
SECTION VIEW

(A7) EXHAUST COLLAR DETAIL



1" FLANGE AT TOP OF COLLAR ALLOWS FOR DUCT CONNECTIONS

N.T.S.

EXHAUST COLLAR APPROVAL

OPTIONS

- ☐ SHIP COLLAR LOOSE
- ☐ WELD COLLAR TO HOOD (DIMENSIONS REQUIRED)

DRAWING APPROVAL

THIS DRAWING MUST BE REVIEWED, SIGNED & RETURNED TO STREIVOR AIR SYSTEMS PRIOR TO THE START OF FABRICATION.

VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING LOCATIONS & CLEARANCES.
2. THE LOCATION & TYPE OF COOKING EQUIPMENT.

APPROVED FOR FABRICATION

- ☐ APPROVED
- ☐ APPROVED AS NOTED
- ☐ REVISE & RESUBMIT

APPROVED BY _____ DATE _____

NOTE TO REVIEWER:

ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION. A RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR. BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

PRE-INSTALLATION

OBTAIN, READ AND UNDERSTAND STREIVOR'S HOOD INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, STARTUP OR BALANCING.

INSTALLATION

ALL INSTALLATION, STARTUP AND BALANCING MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS.
A 10" MINIMUM CLEARANCE IS REQUIRED ABOVE ALL STANDARD CONSTRUCTION HOODS. CONSULT THE FACTORY FOR VARIANCES.

STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

PROJE GENE THEORY
SERVERY

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MULLER DESIGN ASSOCIATES

HOOD #:	E01
DATE:	07/03/2017
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"
IF BAR DOES NOT MEASURE 1" THIS DRAWING IS NOT PLOTTED TO SCALE	
DRAWN BY:	MLG
CHECKED BY:	JML
CONSULTANT:	MULLER DESIGN ASSOCIATES

	DESCRIPTION	DATE	INT
1	---	--/--/--	---
2	---	--/--/--	---
3	---	--/--/--	---
4	---	--/--/--	---
5	---	--/--/--	---
6	---	--/--/--	---

SHEET:
2H-01
SHEET 01 OF 01

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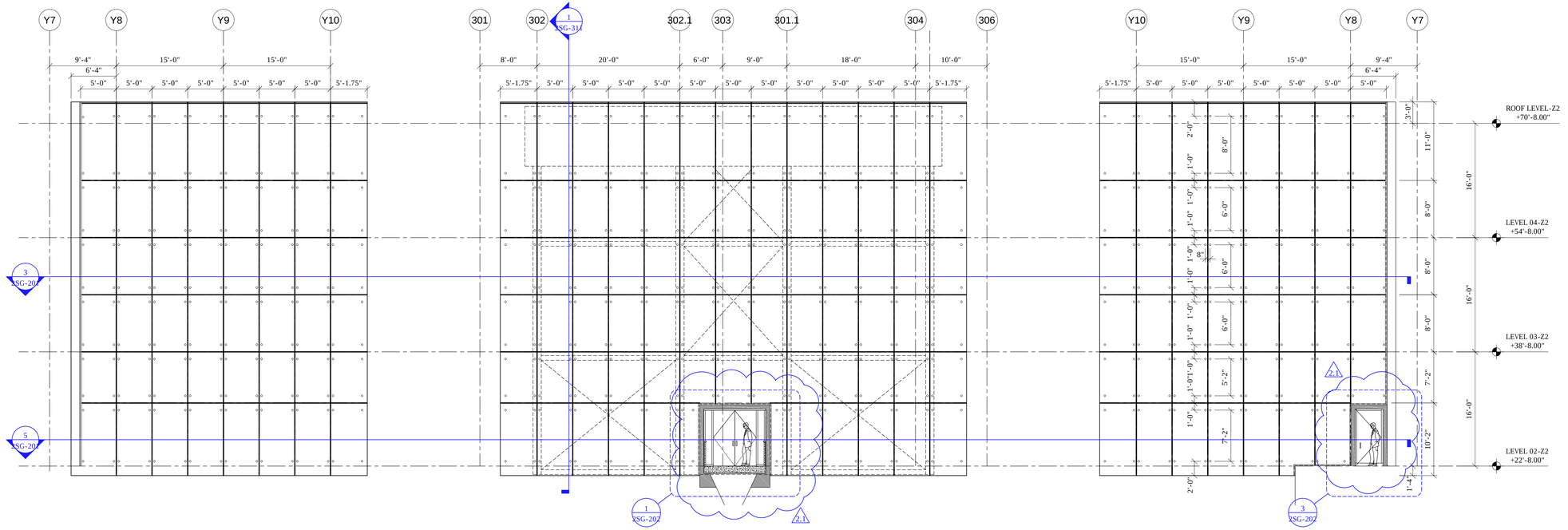
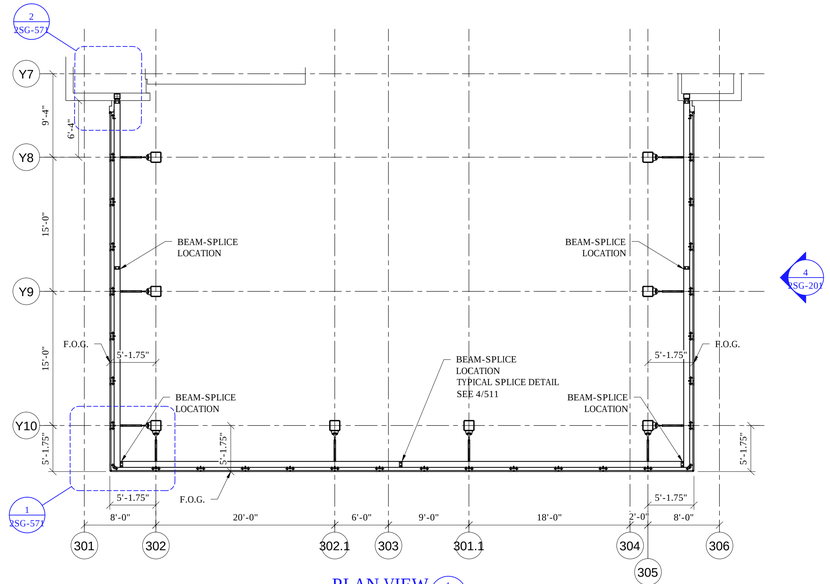


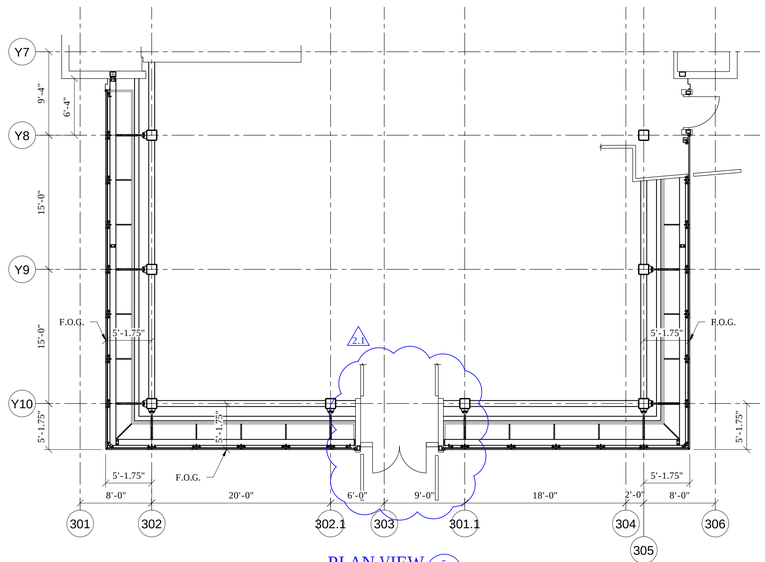
WEST ELEVATION 2 — SCALE: 1/8"=1'-0" 2SG-201 2SG-201

SOUTH ELEVATION 3 — SCALE: 1/8"=1'-0" 2SG-201 2SG-201

EAST ELEVATION 4 — SCALE: 1/8"=1'-0" 2SG-201 2SG-201



PLAN VIEW 1 — SCALE: 1/8"=1'-0" 2SG-201 2SG-201



PLAN VIEW 5 — SCALE: 1/8"=1'-0" 2SG-201 2SG-201

GENE THEORY _

CP-2

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	24.05.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

Sheet Title

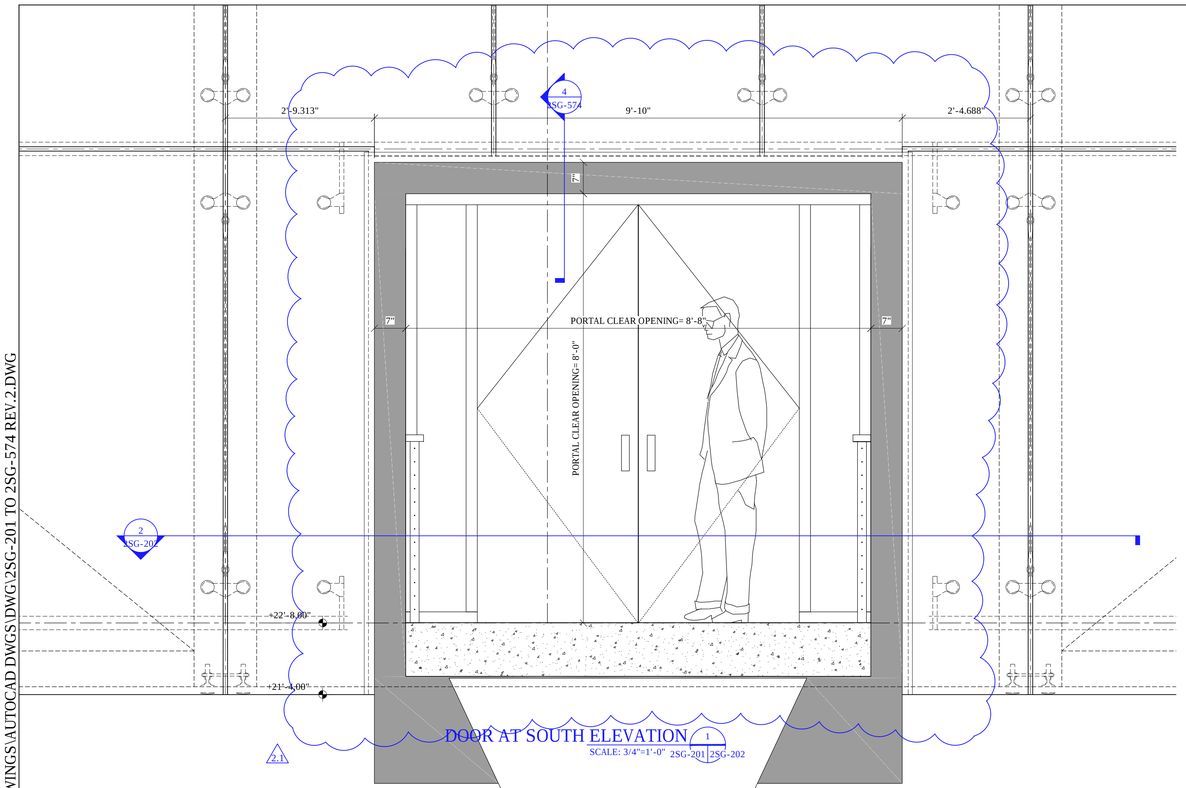
ELEVATIONS
DESIGNER ASSIST

Sheet No.

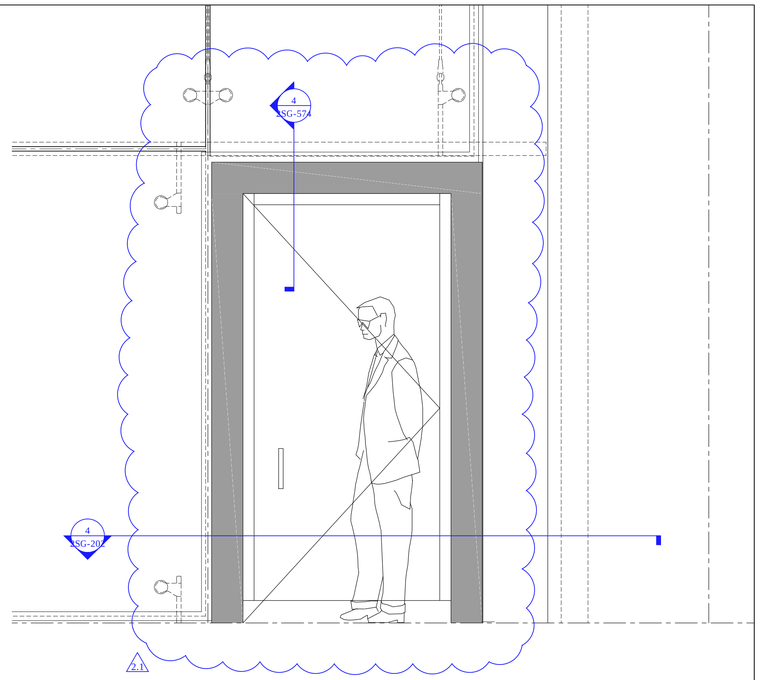
2SG-201

25Aug2017 10:26 U:\004 TECHNICAL SERVICES\17-0022 CAMPUS PROJECT, PHASE 2\2103 DRAWINGS\AUTOCAD DWGS\DWG\2SG-201 TO 2SG-574 REV.2.DWG

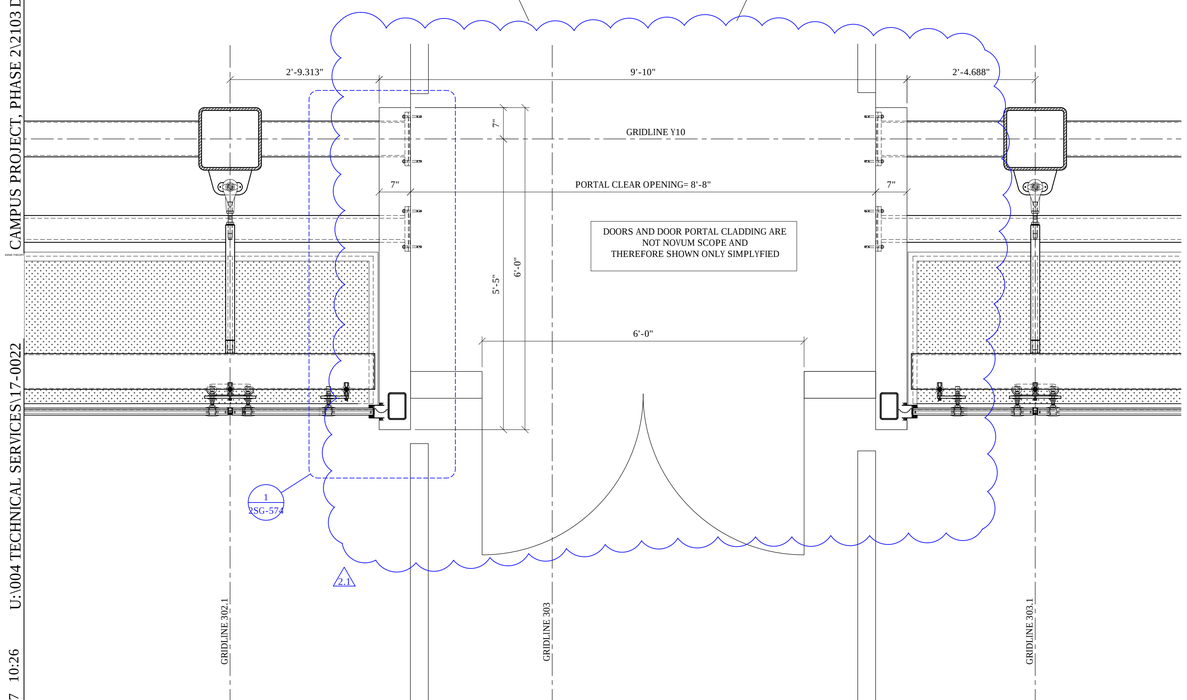
DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001



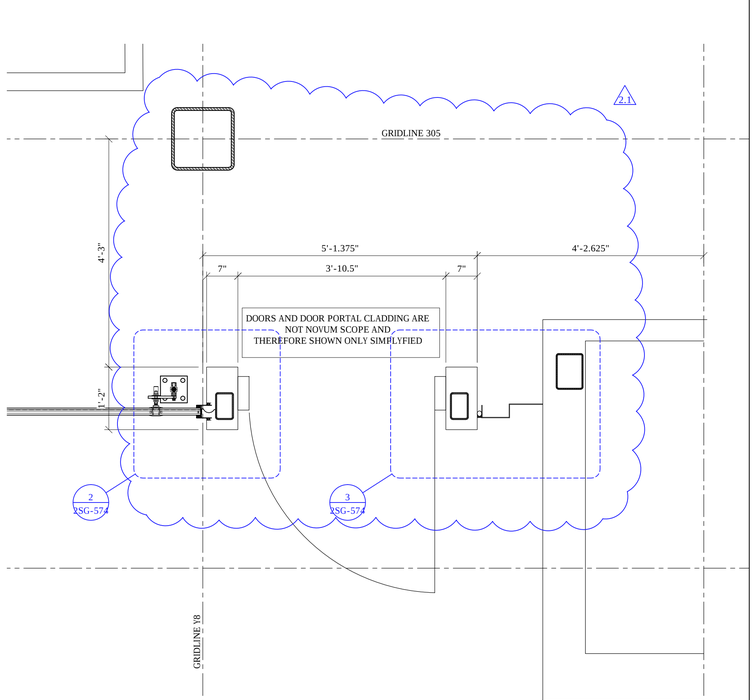
DOOR AT SOUTH ELEVATION 1
SCALE: 3/4"=1'-0" 2SG-201 2SG-202



DOOR AT EAST ELEVATION 3
SCALE: 3/4"=1'-0" 2SG-201 2SG-202



PLAN VIEW DOOR SOUTH 2
SCALE: 3/4"=1'-0" 2SG-202 2SG-202



PLAN VIEW DOOR EAST 4
SCALE: 3/4"=1'-0" 2SG-202 2SG-202

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BioLegend®

GENE THEORY _
CP-2

PROJECT NO. 16148

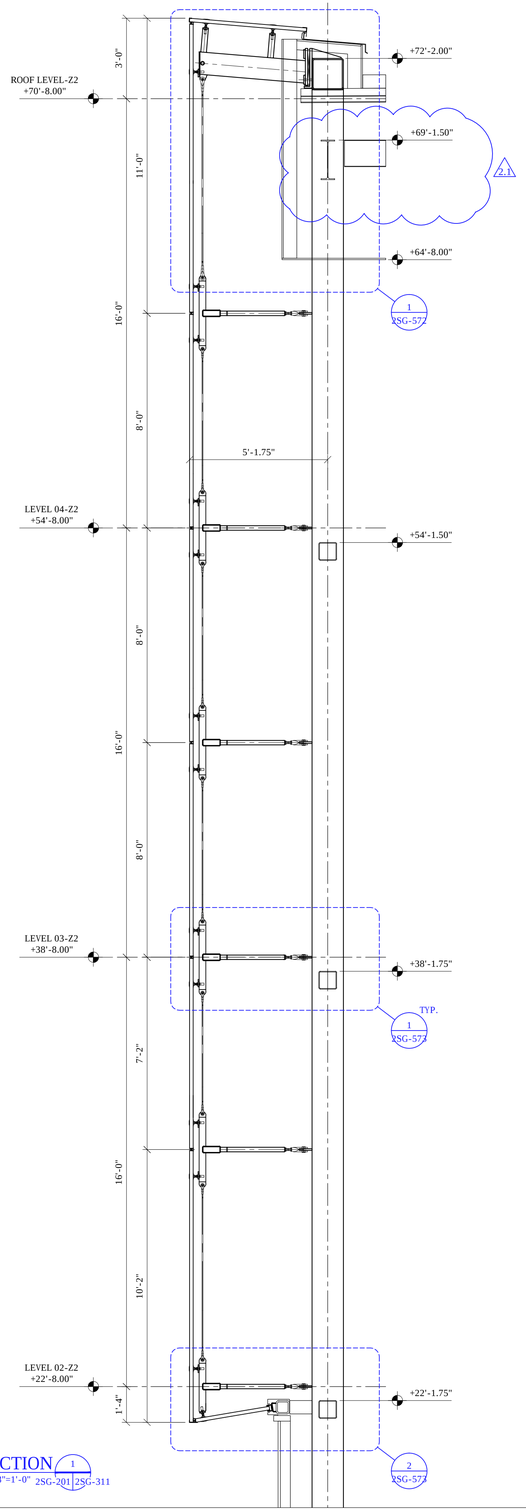
REV NO.	DATE ISSUED	REASON
	24.05.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

Sheet Title
ELEVATIONS
DESIGNER ASSIST

Sheet No.
2SG-202

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001



VERTICAL MAIN SECTION 1 2SG-201 2SG-311

SCALE: 3/8"=1'-0"

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GENE THEORY

CP-2

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	24.05.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

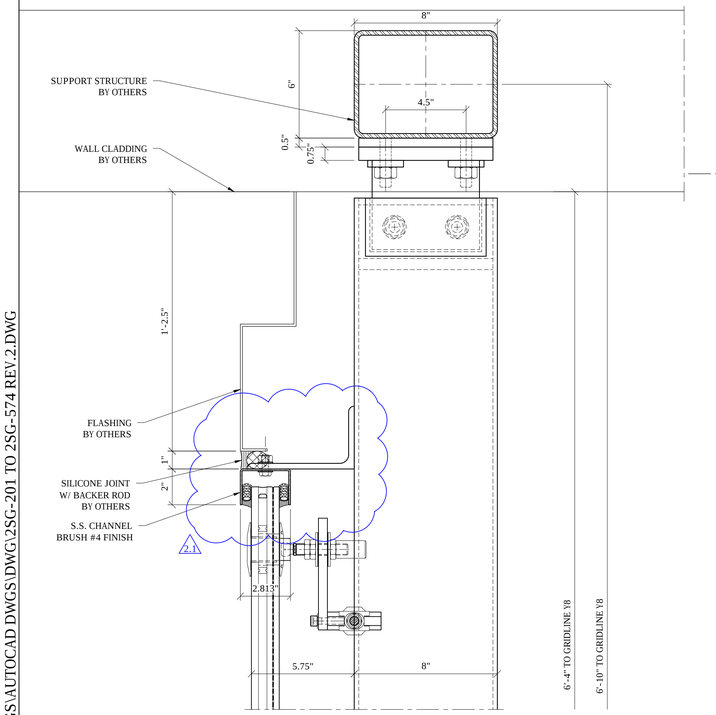
Sheet Title

WALL SECTIONS
DESIGNER ASSIST

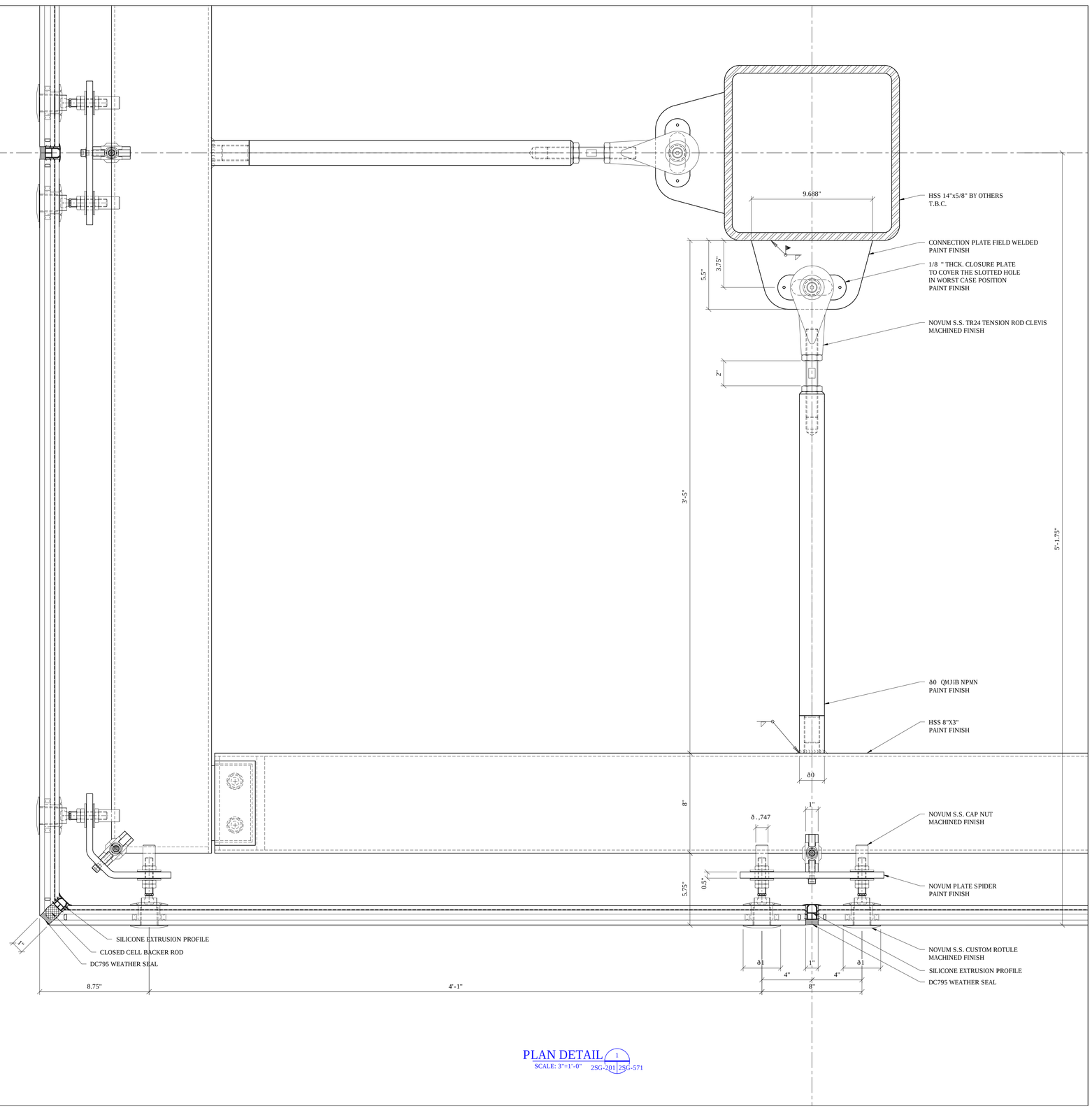
Sheet No.

2SG-311

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001



PLAN DETAIL 2
SCALE: 3"=1'-0" 2SG-201 2SG-571



PLAN DETAIL 1
SCALE: 3"=1'-0" 2SG-201 2SG-571

GENE THEORY

CP-2

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	24.05.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

Sheet Title

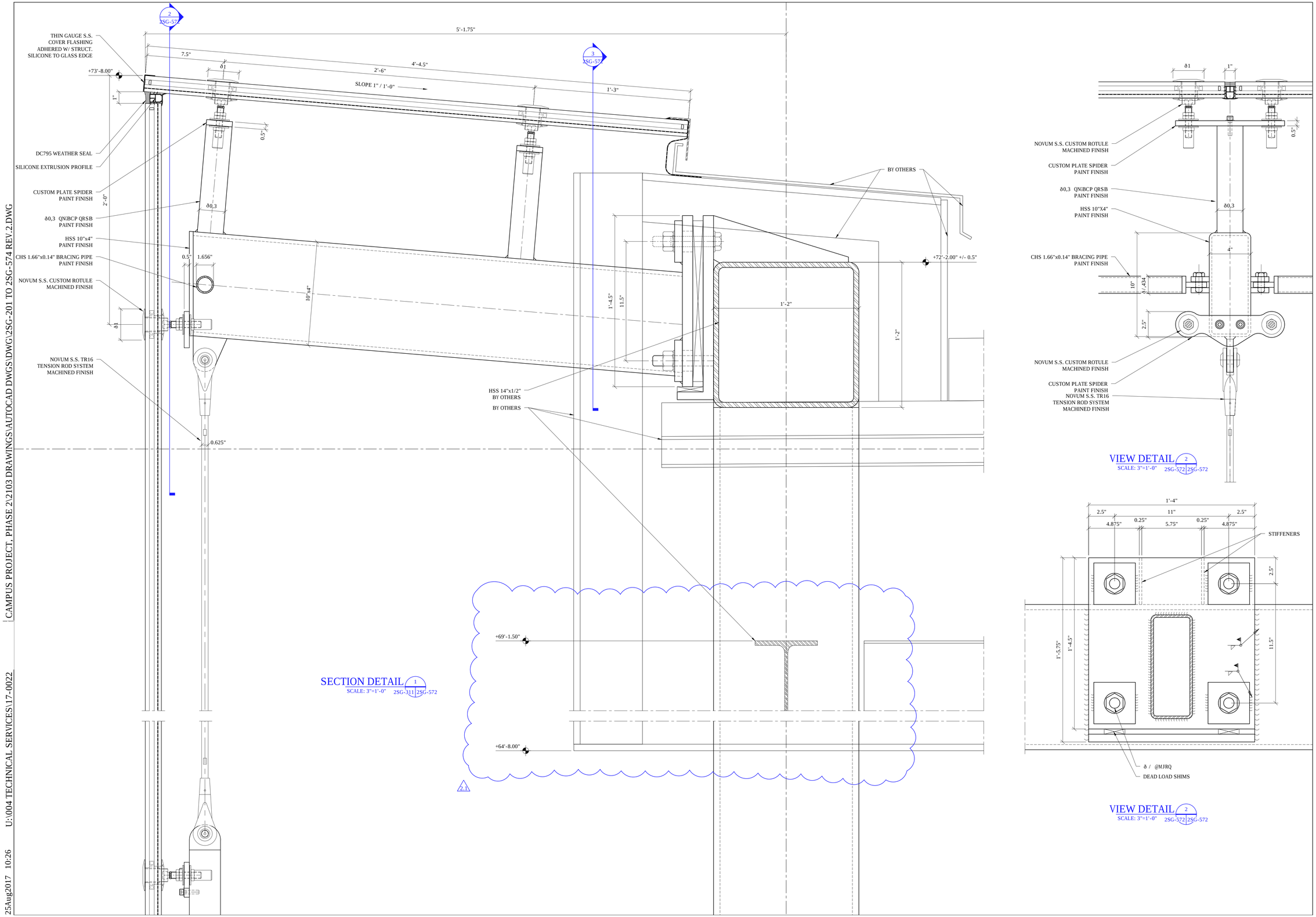
DETAILS
DESIGNER ASSIST

Sheet No.

2SG-571

25Aug2017 10:26 U:\004 TECHNICAL SERVICES\17-0022 CAMPUS PROJECT, PHASE 2\2103 DRAWINGS\AUTOCAD DWGS\DWG\2SG-201 TO 2SG-574 REV.2.DWG

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001



SECTION DETAIL 1
SCALE: 3"=1'-0" 2SG-311 2SG-572

VIEW DETAIL 2
SCALE: 3"=1'-0" 2SG-572 2SG-572

VIEW DETAIL 2
SCALE: 3"=1'-0" 2SG-572 2SG-572

U:\004 TECHNICAL SERVICES\17-0022 CAMPUS PROJECT, PHASE 2\2103 DRAWINGS\AUTOCAD DWGS\DWG\2SG-201 TO 2SG-574 REV 2.DWG
25Aug2017 10:26

GENE THEORY

CP-2

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	24.05.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

Sheet Title

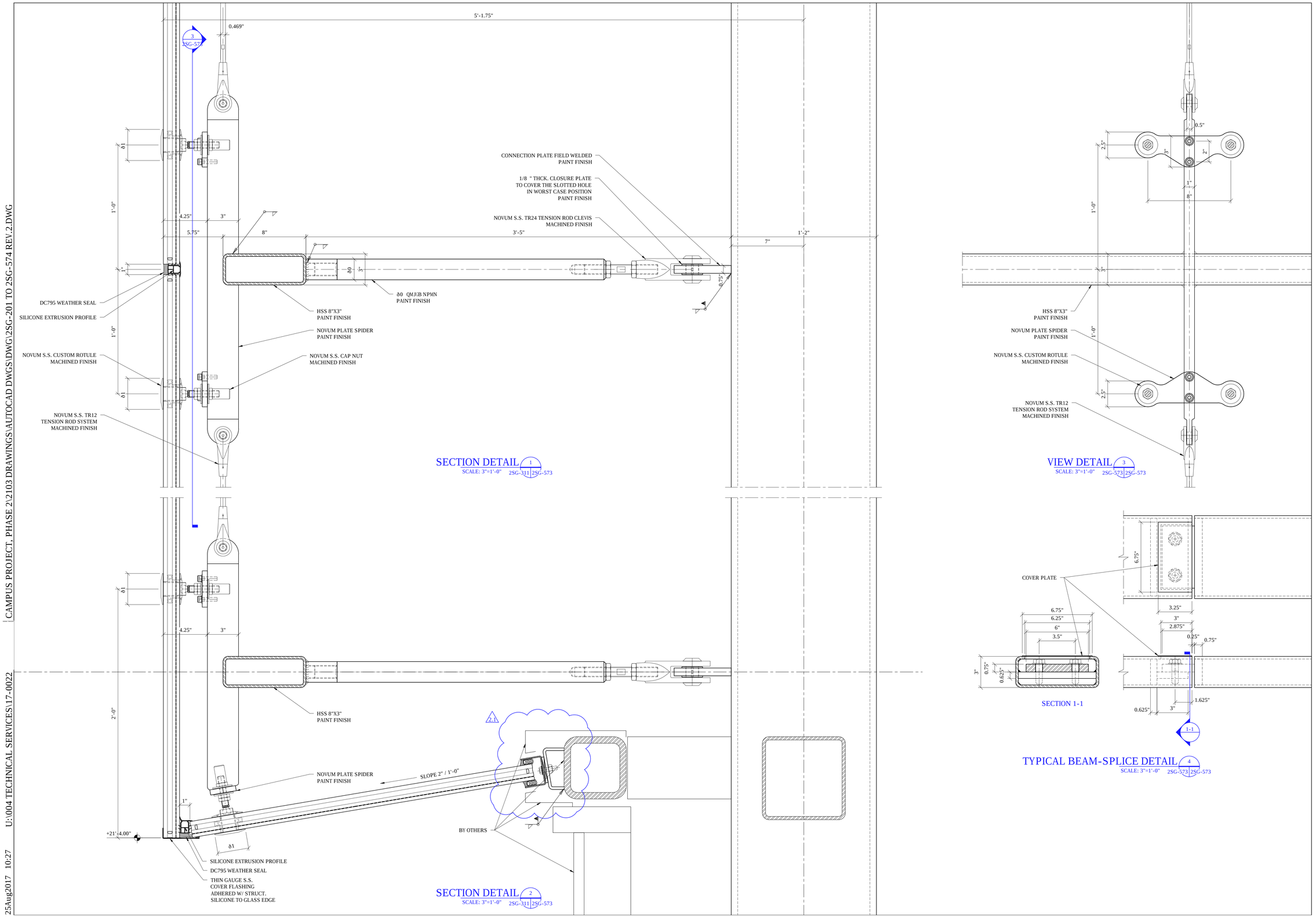
DETAILS
DESIGNER ASSIST

Sheet No.

2SG-572

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

25Aug2017 10:27 U:\004 TECHNICAL SERVICES\17-0022 CAMPUS PROJECT, PHASE 2\2103 DRAWINGS\AUTOCAD DWGS\DWG\2SG-201 TO 2SG-574 REV.2.DWG



GENE THEORY

CP-2

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	24.05.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

Sheet Title

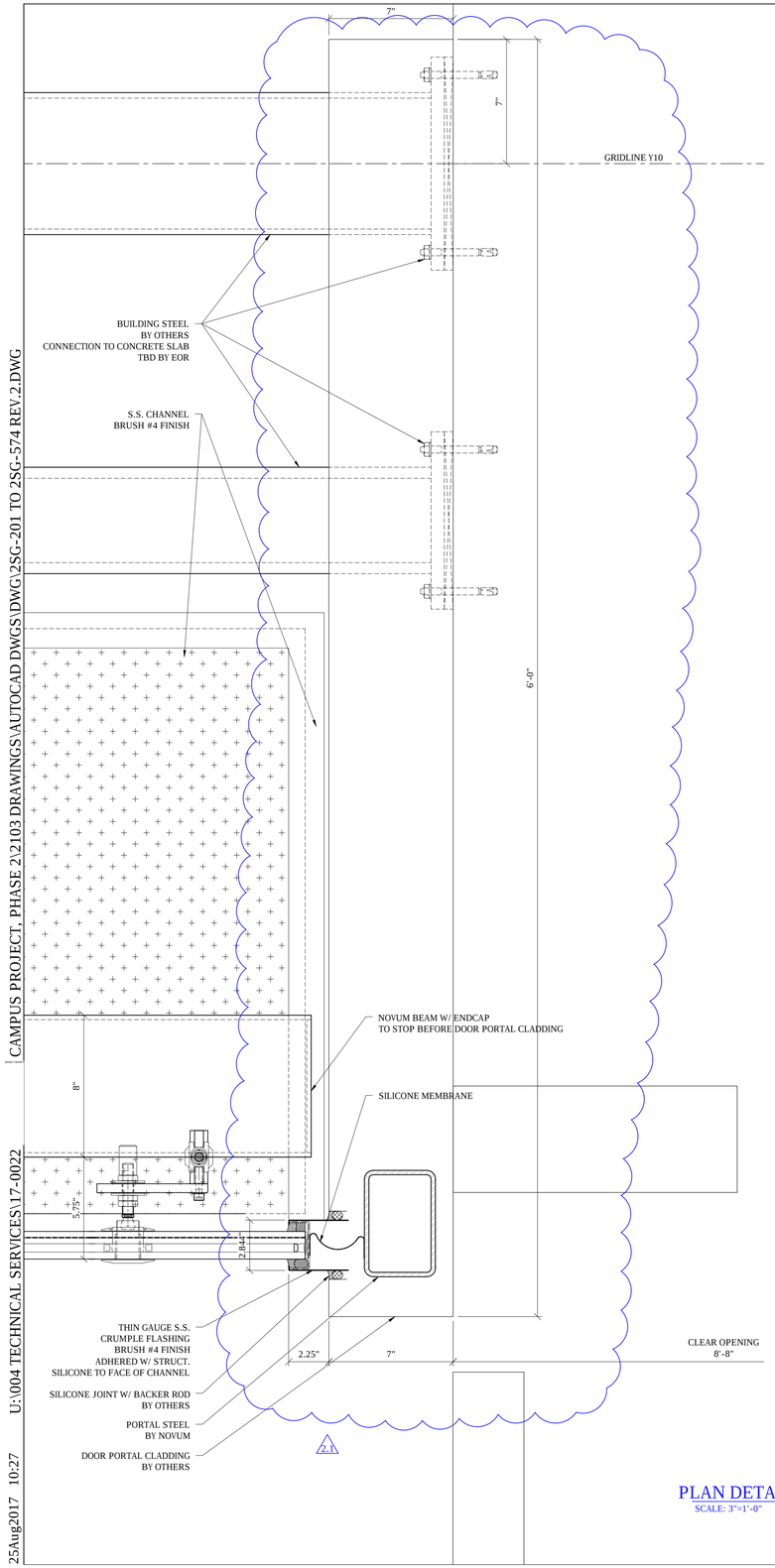
DETAILS
DESIGNER ASSIST

Sheet No.

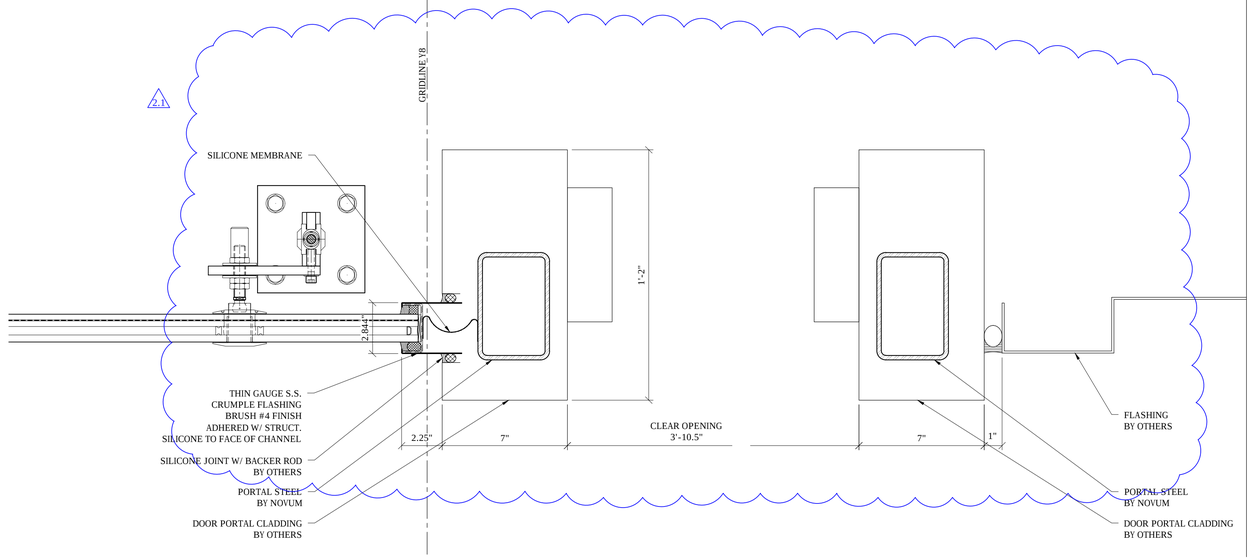
2SG-573

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001

25Aug2017 10:27 U:\004 TECHNICAL SERVICES\17-0022 CAMPUS PROJECT, PHASE 2\2103 DRAWINGS\AUTOCAD DWGS\DWG\2SG-201 TO 2SG-574 REV.2.DWG

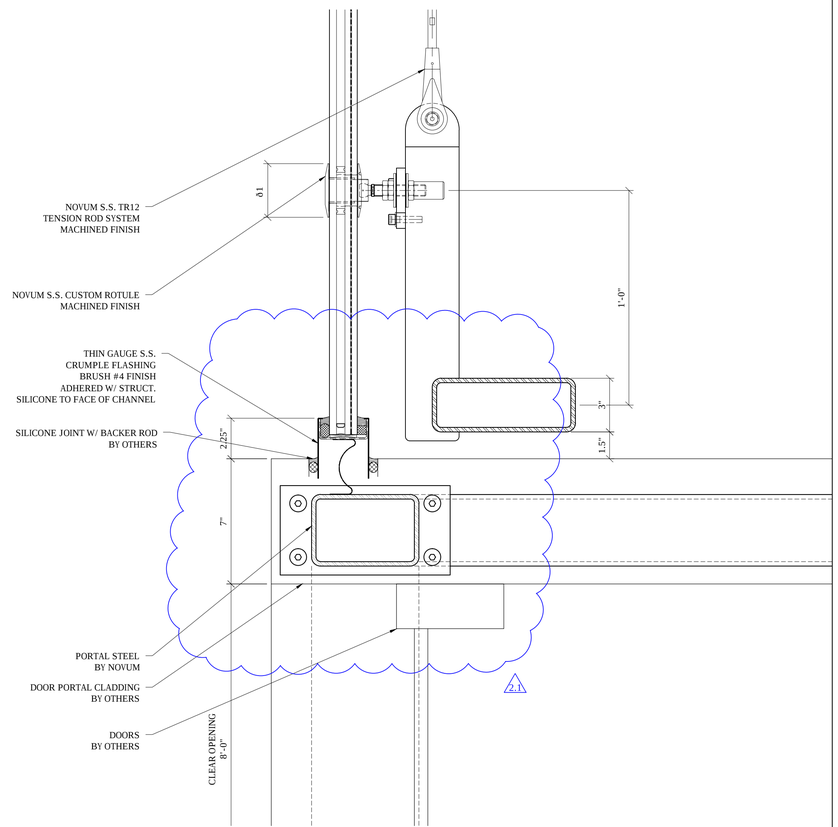


PLAN DETAIL 1
SCALE: 3"=1'-0" 2SG-202 2SG-574



PLAN DETAIL 2
SCALE: 3"=1'-0" 2SG-202 2SG-574

PLAN DETAIL 3
SCALE: 3"=1'-0" 2SG-202 2SG-574



SECTION DETAIL 4
SCALE: 3"=1'-0" 2SG-202 2SG-574

GENE THEORY _

CP-2

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	24.05.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET
2.1	08.29.17	ADDENDUM #2.1

ADDENDUM #2.1
08.29.17

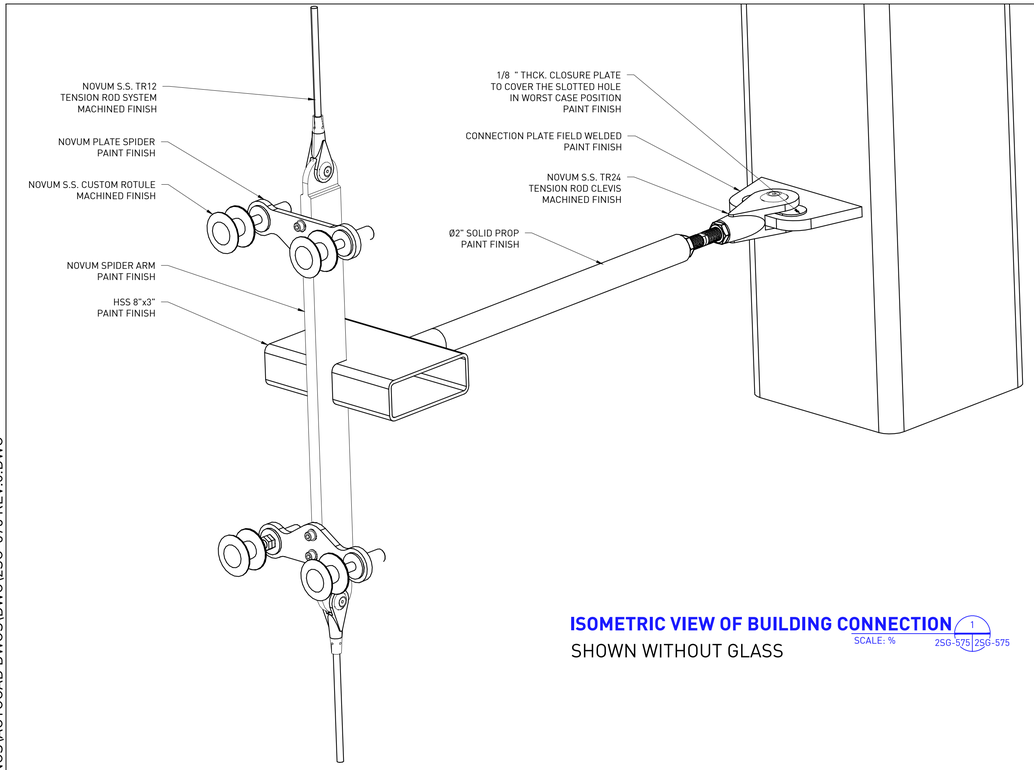
Sheet Title

DOOR PORTAL
DETAILS
DESIGNER ASSIST

Sheet No.

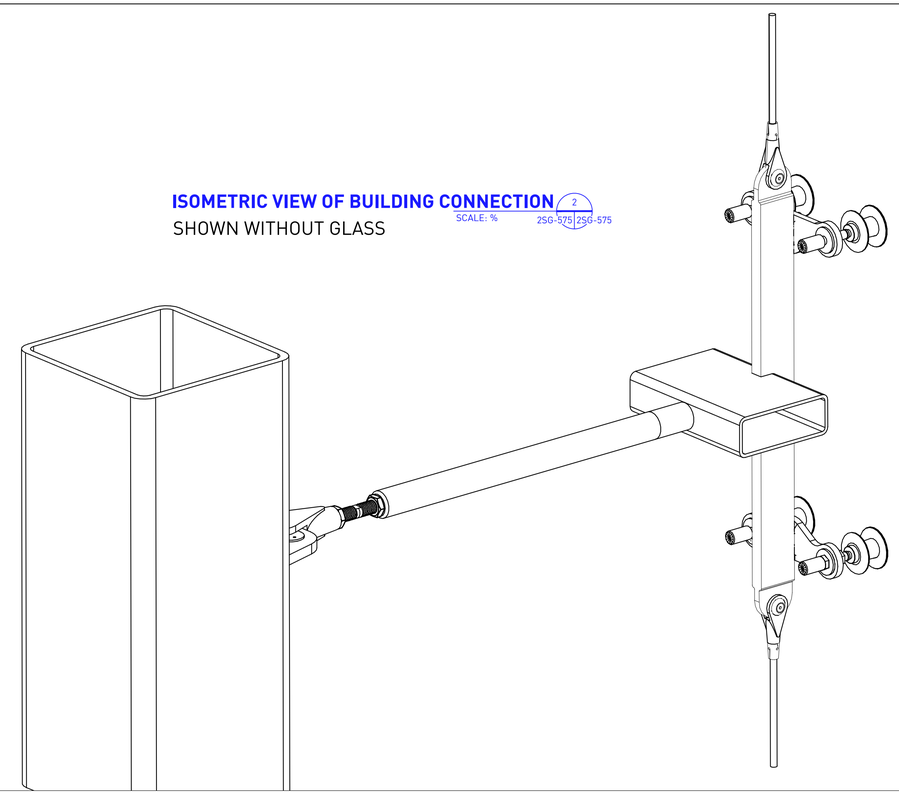
2SG-574

DPR Issued Sheet 2017-29-08
Link to Sheet Index - 2G-001



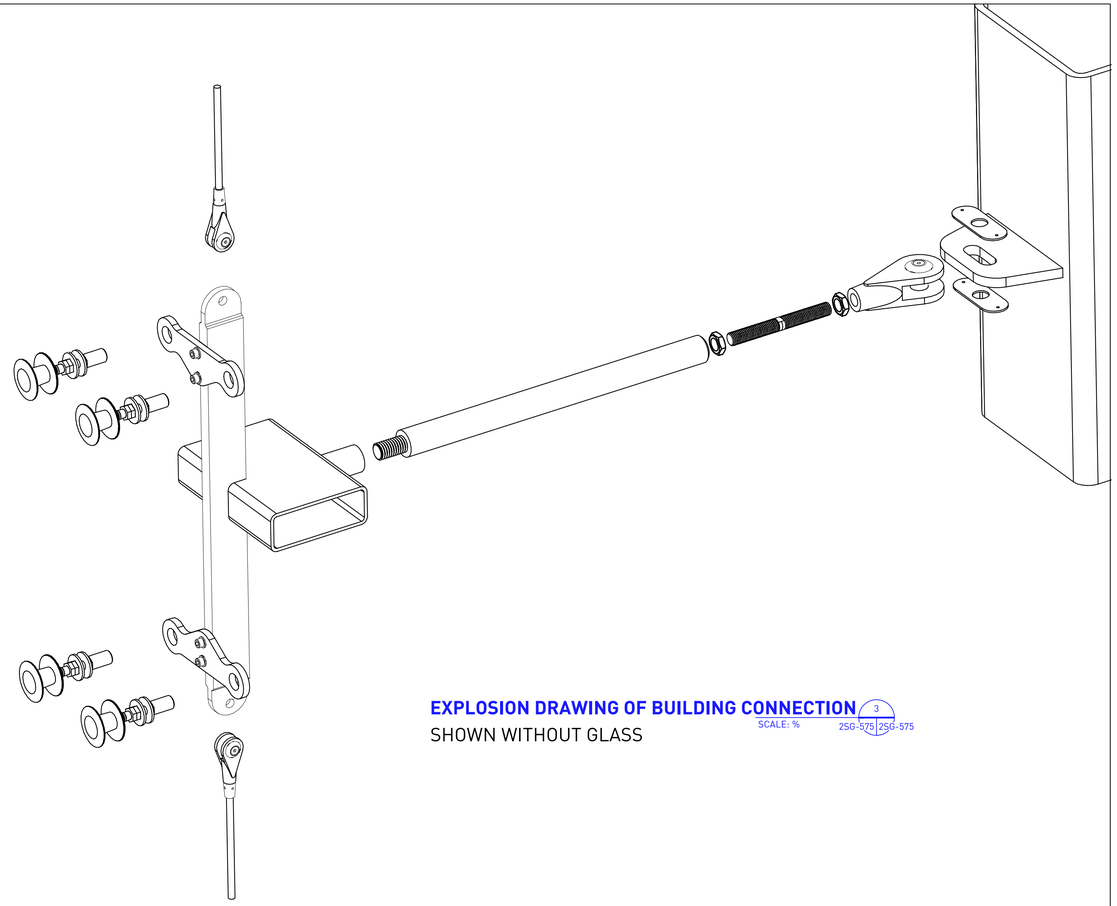
ISOMETRIC VIEW OF BUILDING CONNECTION 1
SCALE: % 2SG-575 2SG-575

SHOWN WITHOUT GLASS



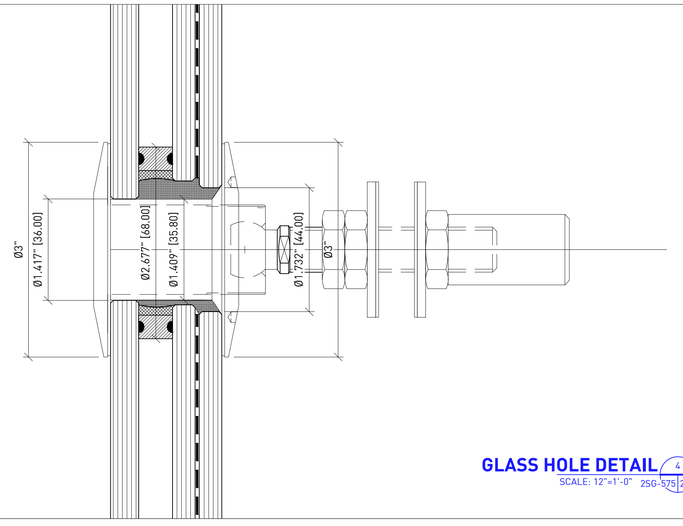
ISOMETRIC VIEW OF BUILDING CONNECTION 2
SCALE: % 2SG-575 2SG-575

SHOWN WITHOUT GLASS



EXPLOSION DRAWING OF BUILDING CONNECTION 3
SCALE: % 2SG-575 2SG-575

SHOWN WITHOUT GLASS



GLASS HOLE DETAIL 4
SCALE: 12"=1'-0" 2SG-575 2SG-575

GENE THEORY _

CP-2

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	24.05.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.2017

Sheet Title

ISOMETRIC VIEW OF SPIDER AND PROP DESIGNER ASSIST

Sheet No.

2SG-575

1Aug2017 8:31 U:\004 TECHNICAL SERVICES\17-0022 CAMPUS PROJECT, PHASE 2\2103 DRAWINGS\AUTOCAD DWGS\DWG\2SG-575 REV.0.DWG

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

GENE THEORY NEW BUILDING STRUCTURE

VIBRO PIERS

SHEET INDEX

HB-1	TITLE SHEET AND GEOTECHNICAL NOTES
HB-2	DETAIL SECTIONS AND INSTALLATION NOTES
HB-3	GROUND IMPROVEMENT PLAN
HB-4	PARTIAL GROUND IMPROVEMENT PLAN - RETAINING WALL SECTION
HB-5	VIBRO PIER SCHEDULE

GEOTECHNICAL NOTES

Commentary

Hayward Baker, Inc (HBI) has been contracted to design and construct Vibro Piers to support the foundations of the proposed new building. This design submittal is based on the following information:

1. Geotechnical Report for GENE THEORY Development dated December 8, 2016 and prepared by CTE Inc.
2. Plan Check Submittal Drawings and loading information dated March 6, 2017, prepared by Parking Design Associates and Hope-Amundson Structural Engineers.
3. Loading information dated August 17, 2017 was provided by Hope-Amudson Structural Engineers.
4. Foundation Drawings, dated 8/1/2017 provided by Hope-Amudson, Structural Engineers.

*If any of these documents are changed or altered in any way, HBI may need to modify our design.

Underground Service Alert of Southern California
Call: TOLL FREE 800-422-4133
TWO WORKING DAYS BEFORE YOU DIG
RE-NOTIFY EVERY TWO WEEKS
TICKET #
DATE CALLED:

LICENSED PROFESSIONAL ENGINEER
ADITYA ZUTSHI
NO. 88956
EXP. 03/31/19
CIVIL
STATE OF CALIFORNIA

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

TITLE PAGE & GEOTECHNICAL NOTES

Sheet No.
HB-1 1 OF 5

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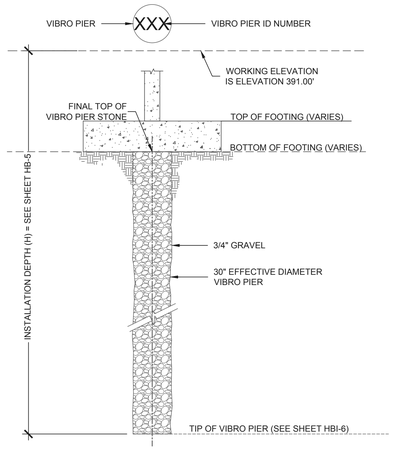
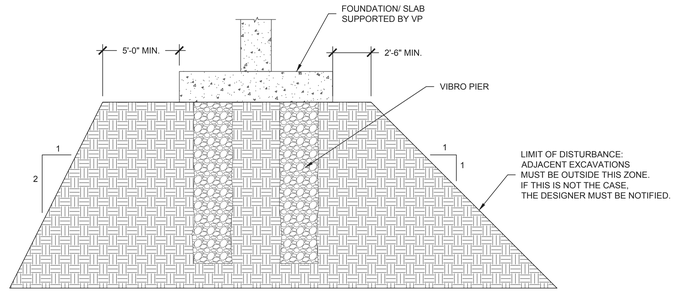
Link to Sheet Index - 2G-002

GROUND IMPROVEMENT NOTES:

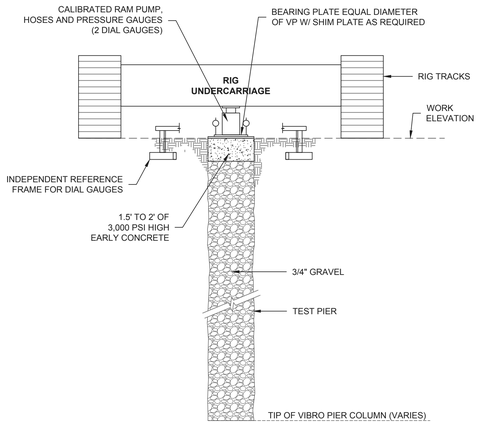
1. Others are to provide a stable and relative level working surface. The working surface shall be constructed and manage by others such that Hayward Baker equipment can efficiently access and travel the site. Elevation of working surface shall be at approximately 391.0' MSL. Hayward Baker is not responsible for returning the site to its original grade or condition.
2. The OWNER shall confirm that the proposed operation does not conflict with future improvement such as structural, mechanical, plumbing, and electrical prior to installation.
3. An underground service alert must be obtained 2 days before starting work.
4. All permits shall be procured and paid for by the OWNER.
5. All encroachment permits within the public right of way and letters of permission from private owners must be obtained by the OWNER.
6. Hayward Baker will provide a qualified full time quality control (QC) representative. This representative is titled Hayward Baker superintendent, foreman, or Hayward Baker field engineer. Third party testing or inspection shall be provided by others.
7. Vibro piers shall be installed to design depth or auger refusal.
8. Locating, protecting and rerouting/removal of all utilities are the responsibility of others. Hayward Baker is not responsible for damage to existing utilities.
9. After the completion of ground improvement work, others are responsible for protection of the work. Proper site drainage to prevent ponding of water at the area of the vibro piers and control coordination of earthwork activities shall be managed such that existing vibro piers are not damage.
10. The vibro pier locations shown on the submittal drawings are only for ground improvement layouts. These plans should not be used for foundation layout. Refer to the "for construction" structural package for specific foundation dimensions and locations.
11. A licensed surveyor (provided by OWNER) will accurately stake and identify to Hayward Baker the site control points for proper vibro pier layout by Hayward Baker, and show on the plans before installation begin. All vibro piers shall be installed within six (6) inches of the location shown on these plans. Hayward Baker retains the sole authority to modify vibro pier locations due to constructability and site constraints. Hayward Baker shall provide an accurate method to allow the inspector to verify the as-built location of the vibro piers during construction.
12. Practical vibro pier refusal is defined as a sustained effort of 150 amps and failure to penetrate 6 inches in 30 seconds.
13. All post-improvement verification testing frequency and criteria for vibro piers as noted on the plans
14. The vibro pier design shall be verified using the methods described in the vibro pier verification testing notes. Any additional testing requested shall be considered extra work.
15. Vibro piers shall be constructed to a diameter of 30 inches.
16. Vibro Piers will be installed to design as shown on HB-5 (VIBRO PIER SCHEDULE) or the Scripps formation, whichever is shallower. See HB-5 for details.



VIBRO PIER UNDER FOOTING DETAIL
NOT TO SCALE



ADJACENT EXCAVATION VIBRO PIER DETAIL
NOT TO SCALE



SECTION VIEW-RIG MOUNTED REACTION FRAME
NOT TO SCALE

MODULUS TEST LOADING SCHEDULE

MODULUS TEST SCHEDULE		
STONE COLUMN No.	XXX	
DESIGN LOAD, DL	73 KIP	
DESIGN MODULUS, K_{SC}	150 PCI	
ANTICIPATED PLATE DEFLECTION AT DL	0.5 INCH	
Percent of Design Load	Applied Load	Hold Time
[%]	[kip]	[min.]
10%	7	2.5
17%	12	2.5
33%	24	2.5
50%	37	2.5
67%	49	2.5
83%	61	2.5
100%	73	2.5
117%	85	2.5
133%	97	10.0
150%	110	2.5
100%	73	2.5
50%	37	2.5
17%	12	2.5
0%	0	2.5
*NOTE: MODULUS TEST IS ALREADY PART OF PREVIOUS SUBMITTAL FOR PARKING AREA. ADDITIONAL TEST WILL BE PERFORMED IF REQUIRED.		

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GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

DETAIL SECTIONS & INSTALLATION NOTES

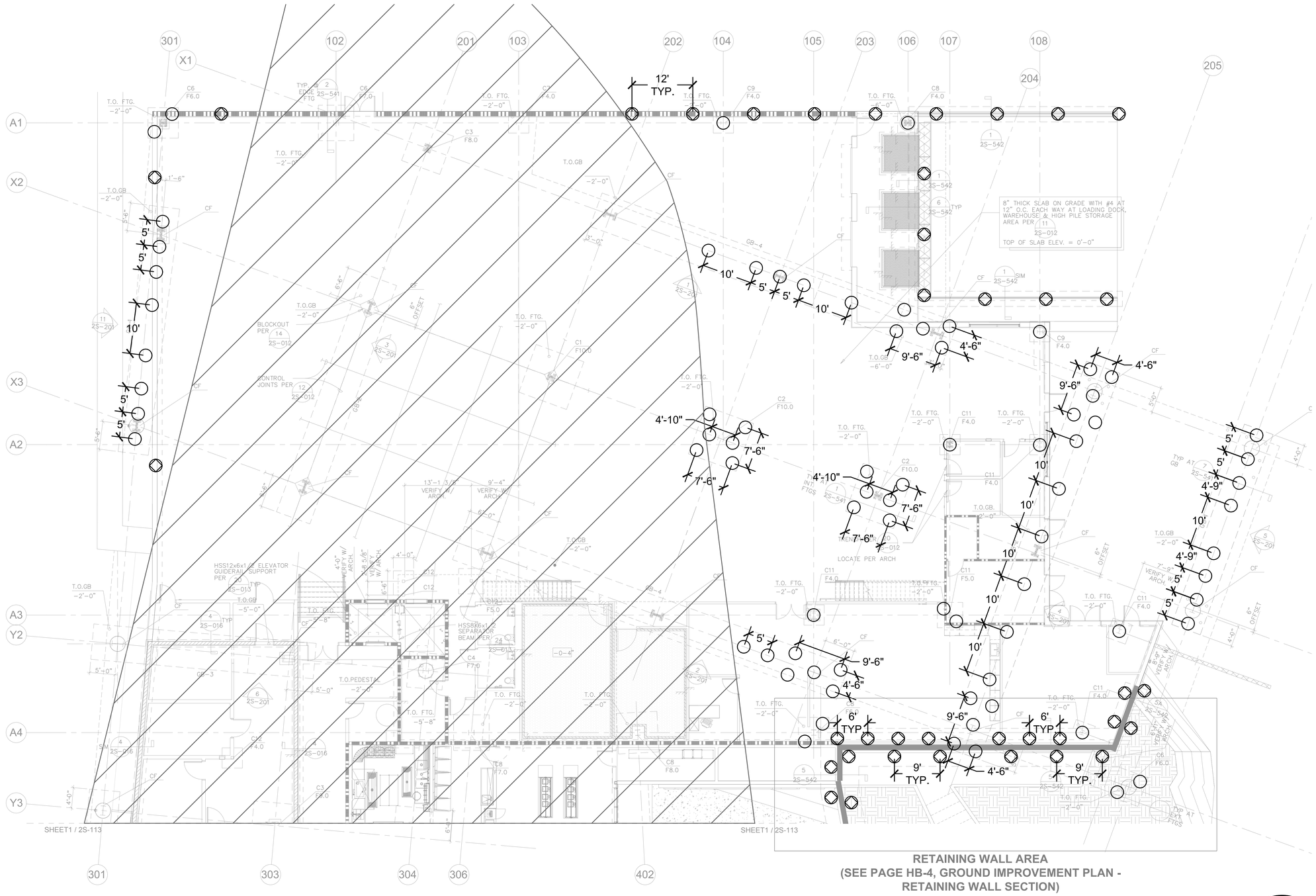
Sheet No.
HB-2 2 OF 5



PLAN VIEW

LEGEND:

1. No Vibro Piers required (CTE (Geotech Consulants)), response to REDWOOD CITY, dated 7/17/2017.
2. Vibro Pier locations for Footings/Grade Beams.
3. Vibro Pier locations for Periphery Wall/Retaining Wall.



RETAINING WALL AREA
(SEE PAGE HB-4, GROUND IMPROVEMENT PLAN - RETAINING WALL SECTION)

NOTES:

1. Foundation Drawings, dated 8/1/2017 provided by Hope-Amudson, Structural Engineers.
2. Foundation Loads dated 7/17/2017 provided by Hope-Amudson, Structural Engineers.

5–0 0 5–0 10–0
1/8" = 1'–0"

LICENSED PROFESSIONAL ENGINEER
ADITYA ZUTSHI
NO. 86956
EXP. 03/31/19
CIVIL
STATE OF CALIFORNIA

GENE THEORYD - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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B	08.08.17	CITY SUBMITTAL SET

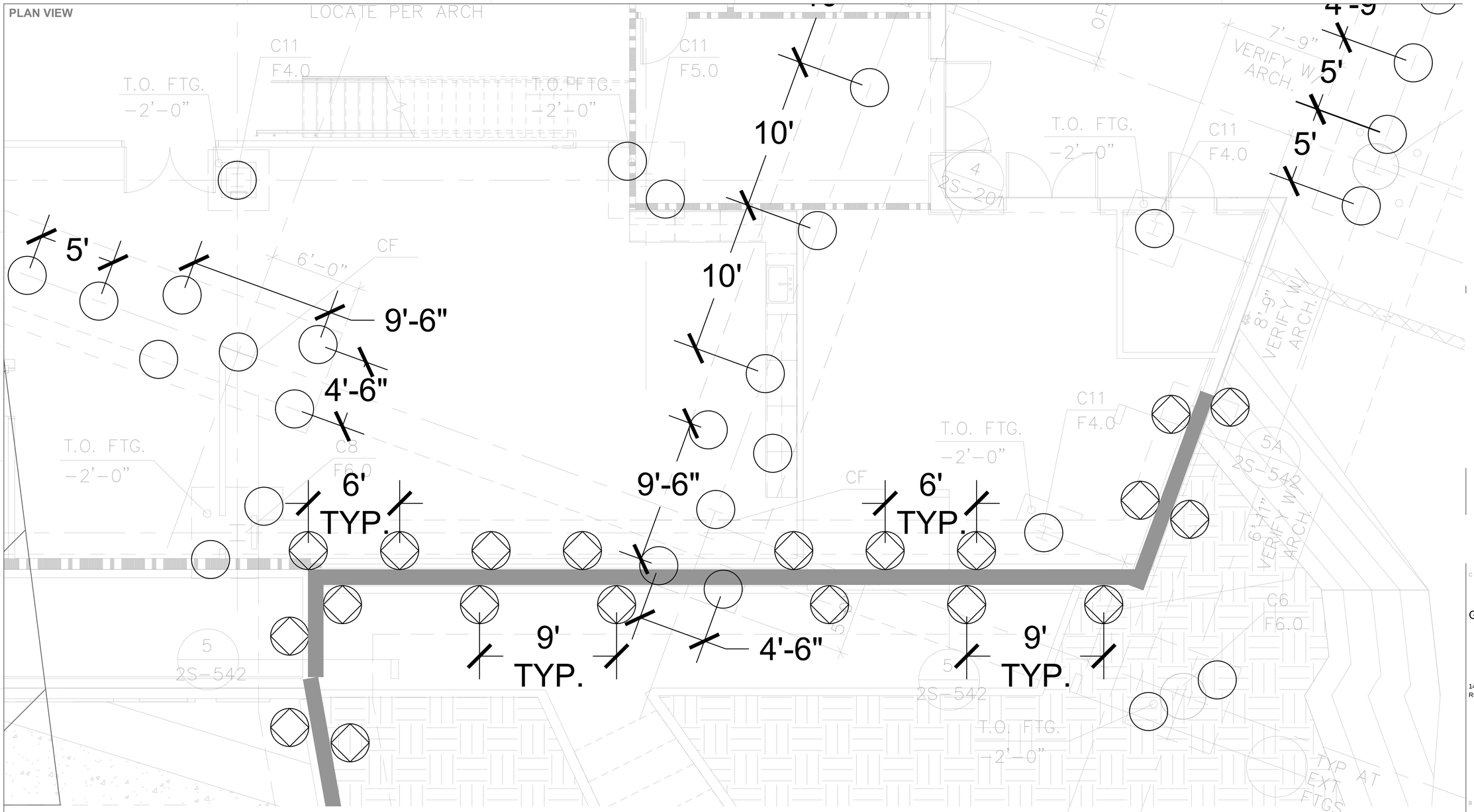
CITY SUBMITTAL SET
08.08.17

GROUND IMPROVEMENT PLAN

Sheet No.
HB-3 3 OF 5

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT

PLAN VIEW



SHEET1 / 2S-113

2−0 0 2−0 4−0
3/8" = 1'−0"

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GENE THEORYD -
CP-2

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LICENSED PROFESSIONAL ENGINEER
ADITYA ZUTSHI
NO. 86956
EXP. 03/31/19
CIVIL
STATE OF CALIFORNIA

CITY SUBMITTAL SET
08.08.17

GROUND IMPROVEMENT PLAN - RETAINING WALL SECTION

Sheet No.

HB-4 4 OF 5

DPR Issued Sheet 2017-08-08
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VIBRO PIER SCHEDULE (FOOTINGS)

GRID	GRID	FOOTING	No of Vibro Piers	TOP ELEVATION	BOTTOM ELEVATION		Range of Depths	COMMENT
[-]	[-]	NAME		[ft]	Min Elevation	Maximum Elevation	ft	[-]
A1	301	F6	2	391.0	381.0	386.0	5-10	Footing
A1	104	F4	1	391.0	381.0	386.0	5-10	Footing
A1	106	F4	1	391.0	376.0	381.0	10-15	Footing
	108	F4	1	391.0	376.0	381.0	10-15	Footing
A2	107	F4	1	391.0	376.0	381.0	10-15	Footing
A2	108	F4	1	391.0	376.0	381.0	10-15	Footing
A3	105	F4	1	391.0	381.0	386.0	5-10	Footing
A3	107	F5	2	391.0	376.0	381.0	10-15	Footing
A4	105	F6	2	391.0	381.0	386.0	5-10	Footing
X3	207	F6	2	391.0	371.0	376.0	15-20	Footing
X2	203	F10	6	391.0	381.0	386.0	5-10	Footing
X2	204	F10	6	391.0	381.0	386.0	5-10	Footing
		F4	1	391.0	376.0	381.0	10-15	Footing
		F4	1	391.0	376.0	381.0	10-15	Footing

VIBRO PIER SCHEDULE (GRADE BEAMS)

A-GRID	N_GRID	WALL	No of Vibro Piers	TOP ELEVATION	BOTTOM ELEVATION		Range of Depths	COMMENT
[-]	[-]	NAME		[ft]	Min Elevation	Maximum Elevation	ft	[-]
		Frame 1	8	391.0	381.0	386.0	5-10	GB1 -Wall-Left
		Frame 3	16	391.0	371.0	376.0	10-15	GB-2
		Frame 4	8	391.0	371.0	376.0	15-20	GB-1 Wall- Right
		Frame 8	10	391.0	376.0	386.0	5-15	GB-4
		Frame 9	7	391.0	381.0	386.0	5-10	GB-4

VIBRO PIER SCHEDULE (RETAINING WALL)

A-GRID	N_GRID	WALL	No of Vibro Piers	TOP ELEVATION	BOTTOM ELEVATION		Range of Depths	COMMENT
[-]	[-]	NAME		[ft]	Min Elevation	Maximum Elevation	ft	[-]
		Retaining Wall	20	391.0	376.0	386.0	5-15	Retianing Wall
		Periphery Wall	18	391.0	376.0	386.0	5-15	Periphery Wall

Notes:

1. Working Grade Elevation as provided to HBI is at EL. 391.00 ft above MSL.
2. Any changes in the working grade must be immediately notified and will change the design depths.
3. Vibro piers will be drilled to design depths as shown in the tables above, top of Scripp's formation (Competent material) or vibrator refusal, whichever is shallower

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LICENSED PROFESSIONAL ENGINEER
ADITYA ZUTSHI
NO. 86956
EXP. 03/31/19
CIVIL
STATE OF CALIFORNIA

CITY SUBMITTAL SET
08.08.17

VIBRO PIER SCHEDULE

Sheet No.
HB-5 5 OF 5

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

FOR REFERENCE ONLY

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.

2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OF HOLIDAYS UNLESS APPROVED BY TRAFFIC CONTROL PERMIT FROM THE DEVELOPMENT SERVICES DEPARTMENT.

3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OREDWOOD CITYT AUTHORIZE THE UTILITY COMPANY TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.

4. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE (800) 422-4133, TWO DAYS BEFORE YOU DIG.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND LOCATING ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE WHILE MAINTAINING A 1 FOOT VERTICAL CLEARANCE.

6. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT ISSUING AUTHORITY.

7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE RESIDENT ENGINEER.

8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPPING DAMAGED DURING CONSTRUCTION.

9. PRIOR TO SITE DISTURBANCE, CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRECONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO, REDWOOD CITY MANAGEMENT AND FIELD ENGINEERING DIVISION (858) 627-3200.

10. CONTRACTOR MAY PERFORM SITE SURVEY AND UTILITY MARK OUT SERVICES PRIOR TO THE PRECONSTRUCTION MEETING.

11. PRIOR TO DEMOLITION, CONTRACTOR SHALL FURNISH THE RESIDENT ENGINEER WITH A LETTER FROM A LICENSED LAND SURVEYOR THAT HAS RESEARCHED AVAILABLE RECORDS AND FIELD INSPECTED THE SITE, STATING THAT NO SURVEY MONUMENTS EXIST IN THE AREA TO DEMOLISHES OR WILL BE DISTURBED OR DESTROYED DURING CONSTRUCTION.

12. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF REDWOOD CITYEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING VERTICAL CONTROL BENCHMARKS DESTROYED BY CONSTRUCTION.

13. CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ALL SURVEY MONUMENTS WHICH ARE DAMAGED OR DESTROYED BY CONSTRUCTION.

14. PRIOR TO CONSTRUCTION, SURVEY MONUMENTS THAT ARE LOCATED IN THE CONSTRUCTION AREA SHALL BE TIED-OUT AND REFERENCED BY A LAND SURVEYOR.

15. UPON COMPLETION OF CONSTRUCTION, ALL DESTROYED SURVEY MONUMENTS ARE REQUIRED TO BE REPLACED, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE PREPARED AND FILED WITH THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYOR ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA.

16. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.

17. CONTRACTOR SHALL HAVE EMERGENCY MATERIAL AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHERE FLOW MAY GENERATE EROSION AND SEDIMENT POLLUTION.

18. MANHOLES AND PULL BOX COVER SHALL BE LABELED "NAME OF COMPANY."

19. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEREDWOOD CITY

20. AN AS-GRADED GEOTECHNICAL REPORT AND A SET OF THE REDLINE GRADING PLANS SHALL BE SUBMITTED AT AREA 3 ON THE THIRD FLOOR OF DEVELOPMENT SERVICES WITHIN 30 CALENDAR DAYS OF THE COMPLETION OF GRADING. AN ADDITIONAL SET SHALL BE PROVIDED TO THE RESIDENT ENGINEER OF THE FIELD ENGINEERING DIVISION AT

GRADING NOTES

1. GRADING AS SHOWN ON THESE PLANS SHALL BE IN CONFORMANCE WITH CURRENT STANDARD SPECIFICATIONS AND CHAPTER 14, ARTICLE 2, DIVISION 1, OF THE MUNICIPAL CODE.

2. PLANT AND IRRIGATE ALL CUT AND FILL SLOPES AS REQUIRED BY ARTICLE 2, DIVISION 4, SECTION 142.0411 OF THE) LAND DEVELOPMENT CODE AND ACCORDING TO SECTION IV OR THE LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS.

3. GRADED, DISTURBED, OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED, COVERED BY STRUCTURE, OR PLANTED FOR A PERIOD OVER 90 DAYS SHALL BE TEMPORARILY RE-VEGETATED WITH A NON-IRRIGATED HYDROSEED MIX, GROUND COVER, OR EQUIVALENT MATERIAL. SEE SHEET 7 FOR MIX AND SPECIFICATIONS.

4. ALL TEMPORARY SLOPES SHOWN ON PLAN ARE FOR REFERENCE ONLY.

GROUND WATER DISCHARGE NOTES

1. ALL GROUND WATER EXTRACTION AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS NOT TRIBUTARY TO THE) BAY ARE UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2015-0013 NPDES CAG919003.

2. THE ESTIMATED MAXIMUM DISCHARGE RATES MUST NOT EXCEED THE LIMITS SET IN THE OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL BOARD UNLESS PRIOR NOTIFICATION AND SUBSEQUENT AUTHORIZATION HAS BEEN OBTAINED, AND DISCHARGE OPERATIONS MODIFIED TO ACCOMMODATE THE INCREASED RATES.

3. ALL GROUND WATER EXTRACTIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS TRIBUTARY TO THE) BAY AR) UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2015-0013 NPDES NO. CAG919003.

SITE DESIGN, SOURCE CONTROL AND POLLUTANT CONTROL BMP OPERATION & MAINTENANCE PROCEDURE

STORM WATER MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT APPROVAL NO.: 1918165

O&M RESPONSIBLE PARTY DESIGNEE: PROPERTY OWNER / HOA / CITY / OTHER:

BMP DESCRIPTION	INSPECTION FREQUENCY	MAINTENANCE FREQUENCY	MAINTENANCE METHOD	QUANTITY	INCLUDED IN O&M MANUAL				SHEET NUMBER(S)
						YES		NO	
SITE DESIGN ELEMENTS									
DESCRIPTION:									
SOURCE CONTROL ELEMENTS						YES		NO	
DESCRIPTION:									
POLLUTANT CONTROL BMP(S)						YES		NO	
DESCRIPTION:									
HMP FACILITY (IF SEPARATE)	BI ANNUAL	AS NEEDED	REMOVE SILT & DEBRIS BY VACUUM	4		YES		NO	10
DESCRIPTION:									
SITE SIGNAGE & STENCILING	ANNUAL	AS NEEDED	REPAIR OR REPLACE AS NEEDED	N/A					N/A
SELF RETAINING/SELF TREATING PLANTERS	ANNUAL	AS NEEDED	REPAIR OR REPLACE AS NEEDED						10
MODULAR WETLANDS	BI ANNUAL	ANNUAL	REMOVE SILT & DEBRIS	4					10

ROUGH GRADING AND IMPROVEMENT

N.T.S

GRADING & GEOTECHNICAL SPECIFICATIONS

1. ALL GRADING SHALL BE DONE UNDER OBSERVATION AND TESTING BY A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND, IF REQUIRED, BOTH A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND AN ENGINEERING GEOLOGIST. ALL GRADING MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY ORDINANCE AND THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE SOILS REPORT OR GEOLOGICAL/GEOTECHNICAL INVESTIGATION ENTITLED

B. REDWOOD CITY

C. REDWOOD CITY

VIA

2. ALL FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MOST RECENT VERSION OF A.S.T.M. D-1557 OR AN APPROVED ALTERNATIVE STANDARD.

3. AT THE COMPLETION OF THE GRADING OPERATIONS FOR THE EARTHWORK SHOWN ON THIS PLAN, AN AS-GRADED SOILS REPORT, OR IF REQUIRED, AN AS-GRADED GEOTECHNICAL REPORT WILL BE PREPARED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE CITREDWOOD CITYNICAL GUIDELINES FOR GEOTECHNICAL REPORTS. THE FINAL "AS-GRADED" GEOTECHNICAL REPORT WILL BE SUBMITTED TO THE FIELD ENGINEERING SECTION OF ENGINEERING AND CAPITAL PROJECTS DEPARTMENT AND A SECOND COPY TO THE GEOLOGY SECTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF THE COMPLETION OF GRADING. WHERE GEOLOGIC INSPECTION IS INDICATED IN THE PERMIT OR PROJECT PLANS, REPORTS OR SPECIFICATIONS, THE FINAL REPORT MUST ALSO BE REVIEWED AND SIGNED BY A CALIFORNIA CERTIFIED ENGINEERING GEOLOGIST.

4. IF THE GEOTECHNICAL CONSULTANT OF RECORD IS CHANGED FOR THE PROJECT, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS AGREED IN WRITING TO ACCEPT THE RESPONSIBILITY WITHIN THE AREA OF THEIR TECHNICAL COMPETENCE FOR APPROVAL UPON COMPLETION OF THE WORK. IT SHALL BE THE DUTY OF THE PERMITTEE TO NOTIFY THE CITY ENGINEER AND THE GEOLOGY SECTION OF DEVELOPMENT SERVICES IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF GRADING.

5. THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT(S) PREPARED FOR THIS PROJECT.

DAN T. MATH G.E. #2665 DATE

AARON J. BEEBY C.E.G. #2603 DATE

CONSTRUCTION TESTING & ENGINEERING INC.
1441 MONTIEL ROAD, SUITE 115
ESCONDIDO, CA. 92026
(760) 746-4955

6. FOR SOIL FILE SEE CITY RECORD S-542454

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

DATE

RCE

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

OWNER/APPLICANT

REFERENCE DRAWINGS

SITE ADDRESS

TOPOGRAPHY SOURCE

BENCHMARK

TOTAL DISTURBED AREA

8.1 ACRES

GRADING QUANTITIES

GRADED AREA	4.80 [ACRES]	MAX. CUT DEPTH 16 [FT]	
CUT QUANTITIES	22,042 [CYD]	MAX CUT SLOPE RATIO (2:1MAX) 1 1/2:1 TEMP	
FILL QUANTITIES	2,182 [CYD]	MAX. FILL DEPTH 3.5 [FT]	
IMPORT/EXPORT	19,860 [CYD]	MAX FILL SLOPE RATIO (2:1MAX) 1 1/2:1 TEMP	

THIS PROJECT PROPOSES TO EXPORT 18,931 CUBIC YARDS OF MATERIAL FROM THIS SITE. ALL EXPORT MATERIAL SHALL BE DISCHARGED TO A LEGAL DISPOSAL SITE. THE APPROVAL OF THIS PROJECT DOES NOT ALLOW PROCESSING AND SALE OF THE MATERIAL. ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT.

ASSESSORS PARCEL NUMBER

343-062-24 THR343-062-24, 25, 26 & 27

EXISTING LEGAL DESCRIPTION

PARCEL 1, 2, 3, & 4 OF PM 13198

STORM WATER PROTECTION NOTES

1. TOTAL SITE DISTURBANCE AREA (ACRES) 8.1
HYDROLOGIC UNIT / WATERSHED HYDROLOGIC: PENASQUITOS
HYDRAULIC SUB AREA NAME AND NUMBER:
2. THE PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE

☐WPCP
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NUMBER R9-2013-0001 AND SUBSEQUENT AMENDMENTS..

☒SWPPP
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NUMBER R9-2013-0001 AND CONSTRUCTION GENERAL PERMIT ORDER NUMBER 2009-009-DWQ AS AMENDED BY ORDER 2010-0014 DWQ AND 2012-0006-DWQ

TRADITIONAL: RISK LEVEL ☐1 ☒2 ☐3
LUP: RISK LEVEL ☐1 ☒2 ☐3

3. CONSTRUCTION SITE PRIORITY

☐ASBS ☒HIGH ☐MEDIUM ☐LOW

WDID NO: TBD

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF REDWOOD CITY

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
PWPI070116-01	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2015 EDITION
PWPI070116-02	REDWOOD CITYTANDARD SPECIFICATIONS FOR PUBLICWORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PWPI092816-05	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S CUSTOMARY STANDARD SPECIFICATIONS, 2015 EDITION

STANDARD DRAWINGS:

DOCUMENT NO.	DESCRIPTION
PWPI070116-03	REDWOOD CITYTANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION
PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S CUSTOMARY STANDARD PLANS, 2015 EDITION

LEGEND

EXISTING IMPROVEMENTS

ITEM	SYMBOL
EXISTING ROW LINE	
EXISTING PROPERTY LINE	
EXISTING CHAIN LINK FENCE	X X X
EXISTING TELECOM	COM
EXISTING GAS	G
EXISTING WATER	W
EXISTING ELECTRIC CONDUIT	E
EXISTING SEWER	SS
EXISTING STORM DRAIN	
EXISTING MANHOLE	
EXISTING WATER METER	WM
EXISTING FIRE HYDRANT	
EXISTING WATER VALVE	
EXISTING CONTOUR	390
EXISTING SURVEY MONUMENT	
EXISTING STREET LIGHT	
EXISTING UTILITY BOXES	
EXISTING SIGN	
EXISTING TREE/BRUSH	
EXISTING CURB RAMP	

PROPOSED IMPROVEMENTS

IMPROVEMENT	STANDARD DWGS.	SYMBOL
PROPOSED RIGHT-OF-WAY		
PROPOSED CONTOUR		390
SPOT ELEVATION		390.00 TC
LIMITS OF GRADING (DAYLIGHT)		
CATCH BASIN, TYPE F (PVT)	SDD-119	
CLEANOUT, TYPE A	D-9	
SEWER LINE	SIZE PER PLAN	SS
SEWER CLEANOUT		
MODULAR WETLAND/STORM VAULT		
4" P.C.C. SIDEWALK	SDG-155	
6" CURB	SDG-155	
6" CURB AND GUTTER	SDG-151	
SAWCUT LINES		
COMMERCIAL DRIVEWAY	SDG-163	
CURB RAMPS	SDG-132, SDG-133	
12" FIRE SERVICE & 10" RPDA(PVT)	SDW-120, SDW105, SDW-118, SDW-152, SDW-153	
6" FIRE HYDRANT ASSY...(PVT)	SDW-104, SDW-152, SDW-151, WM-04	
FIRE LINE...(PVT)	SIZE PER PLAN	FW
4" WATER SERVICE WITH DUAL ABOVE GROUND 3" METER AND RPDA BACKFLOW	SDW-157	
WATER LINE	(SIZE PER PLAN) SDW-110, SDW-148, SDW-151	W
GATE VALVE	(SIZE PER PLAN) SDW-151, SDW-153, SDW-157	
THRUST BLOCK	SDW-151	
DIRECTION RUNOFF		
STORM DRAIN LINE (SIZE PER PLAN)		
STORM DRAIN CATCH BASIN (BROOKS 2424)		

SHEET INDEX

SHEET 1 TITLE SHEET
SHEET 2 NOTES
SHEET 3 NOTES
SHEET 4 SURFACE AND UTILITY DEMOLITION PLAN
SHEET 5 ROUGH GRADING PLAN
SHEET 6 ROUGH GRADING SECTIONS
SHEET 7 ROUGH GRADING EROSION CONTROL PLAN
SHEET 8 PUBLIC & PRIVATE UTILITIES
SHEET 9 PUBLIC IMPROVEMENT PLAN
SHEET 10 STORM WATER MANAGEMENT PLAN
SHEET 11 STORM WATER DETAILS
SHEET 12 STORM WATER DETAILS
SHEET 13 STORM WATER DETAILS
SHEET 14 STORM WATER DETAILS
TC-1 TRAFFIC CONTROL PLAN
TC-2 TRAFFIC CONTROL PLAN
TC-3 TRAFFIC CONTROL PLAN

ENGINEERING PERMIT NO: TBD
WDID NO: TBD
RETAINING WALL PROJECT NO: TBD
CONSTRUCTION SITE STORM WATER PRIORITY: PRIORITY DEVELOPMENT PROJECT
DISCRETIONARY PROJECT NO: 490921
PRIVATE CONTRACT

TITLE SHEET FOR:

GENE THEORY

(REDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 1 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454

FOR CITY ENGINEER DATE

V.T.M. N/A

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

1902-6279
CCS '83 COORDINATES

262-1719
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

40031-01-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

DEVELOPMENT SERVICES DEPARTMENT

STREET DATA TABLE

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
	2 LANE COLLECTOR	35	9,505	70'
	6 LANE URBAN MAJOR	50	20,900	102'

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

FOR REFERENCE ONLY

CONSTRUCTION BMP GENERAL NOTES

PRIOR TO ANY SOIL DISTURBANCE, TEMPORARY EROSION AND SEDIMENT CONTROLSHALL BE INSTALLED BY THE CONTRACTOR OR QUALIFIED PERSON(S) AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THE REDWOOD CITYO "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCP) FOR CONSTRUCTION LEVEL BMP'S AND, IF APPLICABLE, THE WATER QUALITY TECHNICAL REPORT (WQTR) FOR POST CONSTRUCTION TREATMENT CONTROL BMP'S.

2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL STORM DRAIN INLETS. INLET PROTECTION IN THE PUBLIC RIGHT OF WAY MAY BE TEMPORARILY REMOVED WHERE IT IS PRONE TO FLOODING PRIOR TO A RAIN EVENT AND REINSTALLED AFTER RAIN IS OVER.

3. ALL CONSTRUCTION BMPS SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.

4. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION AND SEDIMENT CONTROL MEASURES.

5. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER QUALITY MEASURES AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED SWPPP/WPCP WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, CIVIL PENALTIES AND/OR STOP WORK NOTICES.

6. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT, DEBRIS AND MUD ON AFFECTED AND ADJACENT STREET(S) AND WITHIN STORM DRAIN SYSTEM DUE TO CONSTRUCTION VEHICLES/EQUIPMENT AND CONSTRUCTION ACTIVITY AT THE END OF EACH WORK DAY.

7. THE CONTRACTOR SHALL PROTECT NEW AND EXISTING STORM WATER CONVEYANCE SYSTEMS FROM SEDIMENTATION, CONCRETE RINSE, OR OTHER CONSTRUCTION RELATED DEBRIS AND DISCHARGES WITH THE APPROPRIATE BMPS THAT ARE ACCEPTABLE TO THE ENGINEER AND AS INDICATED IN THE SWPPP/WPCP

8. THE CONTRACTOR OR QUALIFIED PERSON SHALL CLEAR DEBRIS, SILT AND MUD FROM ALL DITCHES AND SWALES PRIOR TO AND AFTER EACH RAIN EVENT.

9. IF A NON-STORM WATER DISCHARGE LEAVES THE SITE, THE CONTRACTOR SHALL IMMEDIATELY STOP THE ACTIVITY AND REPAIR THE DAMAGES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF THE DISCHARGE. AS SOON AS PRACTICAL, ANY AND ALL WASTE MATERIAL, SEDIMENT AND DEBRIS FROM EACH NON STORM WATER DISCHARGE SHALL BE REMOVED FROM THE STORM DRAIN CONVEYANCE SYSTEM AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

10. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID DEPLOYMENT OF CONSTRUCTION BMPS WHEN RAIN IS IMMINENT.

11. THE CONTRACTOR SHALL RESTORE AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO WORKING ORDER YEAR ROUND.

12. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DUE TO GRADING INACTIVITY OR UNFORESEEN CIRCUMSTANCES TO PREVENT NON-STORM WATER AND SEDIMENT-LADEN DISCHARGES.

13. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

14. ALL EROSION AND SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED SWPPP/WPCP SHALL BE INSTALLED AND MAINTAINED. ALL EROSION AND SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE PROPERLY DOCUMENTED AND INSTALLED TO THE SATISFACTION OF THE RESIDENT ENGINEER.

15. UPON NOTIFICATION BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL ARRANGE FOR MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION AND SEDIMENT CONTROL MEASURES AND OTHER BMPS RELATIVE TO ANTICIPATED CONSTRUCTION ACTIVITIES.

16. THE CONTRACTOR SHALL CONDUCT VISUAL INSPECTIONS DAILY AND MAINTAIN ALL BMPS AS NEEDED. VISUAL INSPECTIONS AND MAINTENANCE OF ALL BMPS SHALL BE CONDUCTED BEFORE, DURING AND AFTER EVERY RAIN EVENT AND EVERY 24 HOURS DURING ANY PROLONGED RAIN EVENT. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ALL BMPS AS SOON AS POSSIBLE AS SAFETY ALLOWS.

17. CONSTRUCTION ENTRANCE AND EXIT AREA. TEMPORARY CONSTRUCTION ENTRANCE AND EXIT AREA SHALL BE ON LEVEL, STABILIZED GROUND. THE ENTRANCE AND EXIT AREA SHALL BE CONSTRUCTED BY OVERLAYING THE STABILIZED ACCESS AREA WITH 3 TO 6" DIAMETER STONES. THE AREA SHALL BE MINIMUM 50' LONG X 30' WIDE. IN LIEU OF STONE COVERED AREA, THE CONTRACTOR MAY CONSTRUCT RUMBLE RACKS OF STEEL PANELS WITH RIDGES MINIMUM 20' LONG X 30' WIDE CAPABLE OF PREVENTING THE MIGRATION OF CONSTRUCTION MATERIALS INTO THE TRAVELED WAYS.

18. PERFORMANCE STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING WATER POLLUTION CONTROL MEASURES BASED ON PERFORMANCE STANDARDS. PERFORMANCE STANDARDS SHALL INCLUDE:

A. NON-STORM WATER DISCHARGES FROM THE SITE SHALL NOT OCCUR TO THE MEP3. STORM WATER DISCHARGES SHALL BE FREE OF POLLUTANTS INCLUDING SEDIMENT TO THE MEP.

B. EROSION SHALL BE CONTROLLED BY ACCEPTABLE BMPS TO THE MEP. IF RILLS AND GULLIES APPEAR THEY SHALL BE REPAIRED AND ADDITIONAL BMPS INSTALLED TO PREVENT A REOCCURRENCE OF EROSION.

C. AN INACTIVE AREA SHALL BE PROTECTED TO PREVENT POLLUTANT DISCHARGES. A SITE OR PORTIONS OF A SITE SHALL BE CONSIDERED INACTIVE WHEN CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD OF 14 OR MORE CONSECUTIVE DAYS.

STORM WATER REQUIREMENTS

1. THIS PROJECT IS SUBJECT TO MUNICIPAL CODE SECTION 4303 AND ORDER NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100

2. ALL WORK RELATED TO POST-CONSTRUCTION STORMWATER QUALITY SHALL BE IN ACCORDANCE WITH THE STORM WATER QUALITY MANAGEMENT PLAN ENTITLED. PROJECT NAME AND NUMBER, PROJECT APPLICANT PROJECT ADDRESS, PREPARED BY (COMPANY NAME), REPORT DATE.

3. POST-CONSTRUCTION *BMPS ARE REQUIRED, SEE SHEET 10.*

MINIMUM POST-CONSTRUCTION MAINTENANCE PLAN

AT THE COMPLETION OF THE WORK SHOWN, THE FOLLOWING PLAN SHALL BE FOLLOWED TO ENSURE WATER QUALITY CONTROL IS MAINTAINED FOR THE LIFE OF THE PROJECT:

1. STABILIZATION: ALL PLANTED SLOPES AND OTHER VEGETATED AREAS SHALL BE INSPECTED PRIOR TO OCTOBER 1 OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN ½ INCH) AND REPAIRED AND REPLANTED AS NEEDED UNTIL A NOTICE OF TERMINATION (NOT) IS FILED.

2. STRUCTURAL PRACTICES: DESILTING BASINS, DIVERSION DITCHES, DOWNDRAINS, INLETS, OUTLET PROTECTION MEASURES, AND OTHER PERMANENT WATER QUALITY AND SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED PRIOR TO OCTOBER 1ST OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN ½ INCH). REPAIRS AND REPLACEMENTS SHALL BE MADE AS NEEDED AND RECORDED IN THE MAINTENANCE LOG IN PERPETUITY.

3. OPERATION AND MAINTENANCE, FUNDING: POST-CONSTRUCTION MANAGEMENT MEASURES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL THE TRANSFER OF RESPECTIVE SITES TO HOME BUILDERS, INDIVIDUAL OWNERS, HOMEOWNERS ASSOCIATIONS, SCHOOL DISTRICTS, OR LOCAL AGENCIES AND/OR GOVERNMENTS. AT THAT TIME, THE NEW OWNERS SHALL ASSUME RESPONSIBILITY FOR THEIR RESPECTIVE PORTIONS OF THE DEVELOPMENT.

PERMANENT POST-CONSTRUCTION BMP NOTES

1. OPERATION AND MAINTENANCE SHALL BE SECURED BY AN EXECUTED AND RECORDED STORM WATER MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT (SWMDCMA), OR ANOTHER MECHANISM APPROVED BY THE CITY ENGINEER, THAT ASSURES ALL PERMANENT BMP'S WILL BE MAINTAINED IN PERPETUITY, PER THE LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS.

2. ANY MODIFICATION(S) TO THE PERMANENT POST CONSTRUCTION BMP DEVICES/STRUCTURES SHOWN ON PLAN REQUIRES A CONSTRUCTION CHANGE TO BE PROCESSED AND APPROVED THROUGH DEVELOPMENT SERVICES DEPARTMENT BY THE ENGINEER OF WORK. APPROVAL OF THE CONSTRUCTION CHANGE IS REQUIRED PRIOR TO CONSTRUCTION OF THE PERMANENT BMP.

EROSION AND SEDIMENT CONTROL NOTES

TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THEREDWOOD CITY3O ''LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCP) FOR CONSTRUCTION LEVEL BMP'S AND FOR PERMANENT POST CONSTRUCTION TREATMENT CONTROL PERMANENT BMP'S, THE WATER QUALITY TECHNICAL REPORT (WQTR) IF APPLICABLE.

2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.

3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.

4. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.

5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.

6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.

7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.

8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.

9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.

10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

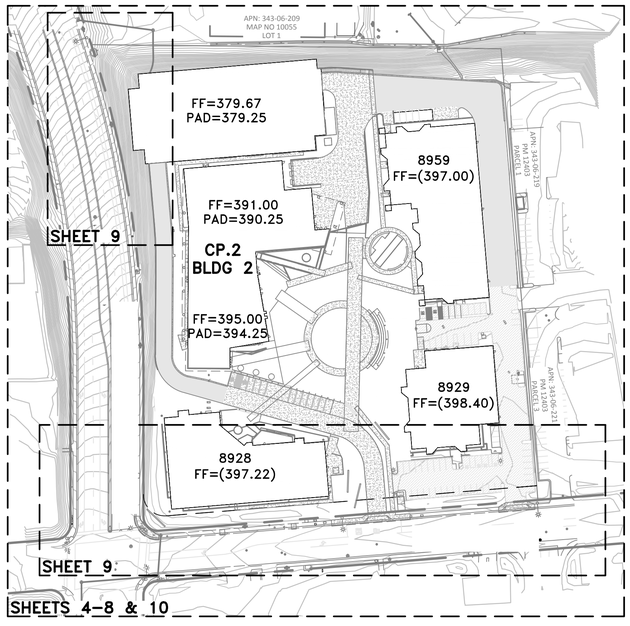
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.

12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.

13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.

14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.

15. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.



KEY MAP

SCALE: 1"=100'

N

PRIVATE NOTE

ALL ONSITE, PRIVATE IMPROVEMENTS SHOWN ON THIS DRAWING ARE FOR INFOMRATION ONLY. THE CITY ENGINEER'S APPROVAL OF THIS DRAWING, IN NO WAY CONSTITUTES AN APPROVAL OF SAID PRIVATE IMPROVEMENTS. A SEPARATE PERMIT FOR SUCH IMPROVEMENTS MAY BE REQUIRED.

CURB RAMP NOTE

THE REQUIRED DETECTABLE WARNING (TRUNCATED DOMES) ON CURB RAMPS ARE TO COMPLY WITH THE CITY STANDARDS (SDG-130) AND SPECIFICATIONS. A 12" X 12" (MIN.) SAMPLE OF THE DETECTABLE WARNING, THE PRODUCTS' TEST REPORT AND A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTION MUST BE SUBMITTED TO THE DESIGNATED CITY RESIDENT ENGINEER FOR REVIEW PRIOR TO INSTALLATION. FAILURE TO COMPLY WITH THE STANDARDS, SPECIFICATIONS AND SAMPLE SUBMITTAL REVIEW PROCESS WILL RESULT IN THE REMOVAL OR REPLACEMENT OF THE DETECTABLE WARNING AND/OR CURB RAMP(S) AT CONTRACTOR AND/OR OWNER'S EXPENSE.

NOTES FOR:
GENE THEORY

(REDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 2 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454

FOR CITY ENGINEER _____ DATE _____

V.T.M. N/A

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

1902-6279
CCS '83 COORDINATES

262-1719
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

40031-02-D

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

2.DWG

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

FOR REFERENCE ONLY

SEWER NOTES

1. EACH LOT SHALL RECEIVE A 4–INCH SEWER HOUSE CONNECTION, UNLESS OTHERWISE INDICATED ON THE PLANS OR SPECIAL SPECIFICATIONS. LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER OF WORK. THE "AS–BUILT" LOCATIONS SHALL BE SHOWN ON THESE PLANS AND THE SEWER LATERAL TABLE COMPLETED PRIOR TO ACCEPTANCE OF THE SEWER FACILITIES.

2. LOCATE SEWER HOUSE CONNECTIONS OUT OF DRIVEWAYS AND A MINIMUM OF TEN FEET FROM TREES. THE SEWER HOUSE CONNECTIONS SHALL BE A MINIMUM OF 5 FEET DOWNHILL FROM THE WATER SERVICE.

3. PROVIDING SEWER FOR THIS DEVELOPMENT IS DEPENDENT UPON PRIOR CONSTRUCTION OF CERTAIN SEWER FACILITIES IN PREVIOUSLY APPROVED DEVELOPMENTS. IF THESE FACILITIES HAVE NOT BEEN CONSTRUCTED AND ACCEPTED BY THE CITY AT THE TIME OF CONNECTION, THEN CERTAIN PORTIONS OF THESE PREVIOUSLY APPROVED OR PLANNED SEWER FACILITIES, AS REQUIRED BY THE CITY ENGINEER, WILL BECOME OFF–SITE IMPROVEMENTS AS PART OF THIS DEVELOPMENT. PRIOR TO CONNECTION OF PUBLIC SEWER FACILITIES, THESE OFF–SITE IMPROVEMENTS MUST BE CONSTRUCTED AND ACCEPTED BY THE CITY AND DOCUMENTED AS A CONSTRUCTION CHANGE TO THE ORIGINAL APPROVED MYLARS FOR THIS DEVELOPMENT. THIS DEVELOPMENT'S SEWER FACILITIES ARE DEPENDENT UPON THE COMPLETION AND ACCEPTANCE OF THE FOLLOWING APPROVED SEWER FACILITIES:

4. ALL VALVES FOR SEWER FORCE MAINS SHALL BE FLANGED TO CROSSES AND TEES.

5. ALL BURIED DUCTILE AND GRAY CAST IRON PIPE, FITTINGS, VALVES AND APPURTENANCES SHALL BE COATED WITH A DIELECTRIC COATING: A LIQUID EPOXY COATING SYSTEM PER AWWA C–210 AT 24 MILS MINIMUM DRY FILM THICKNESS (MDFT), A COLD APPLIED THREE PART SYSTEM PETROLEUM WAX TAPE PER AWWA C–217, OR A POLYURETHANE COATING OF 24 MILS MDFT SUITABLE FOR BURIED USE.

6. SHOP DRAWING SUBMITTALS: PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE PREPARED AND APPROVED BY THE ENGINEER OF RECORD. THE ENGINEER OF RECORD SHALL CERTIFY THAT THE SHOP DRAWINGS MEET THE INTENT OF THE SIGNED DESIGN PLANS AND SPECIFICATIONS. THE APPROVED SHOP DRAWINGS SHALL THEN BE SUBMITTED TO THE RESIDENT ENGINEER FOR A 6 (SIX) WEEK REVIEW PERIOD. ONCE THE SHOP DRAWINGS HAVE BEEN ACCEPTED BY THE RESIDENT ENGINEER, THE MATERIALS MAY BE MANUFACTURED AT THE PLANT. REQUESTS FOR PLANT INSPECTIONS MUST BE MADE A MINIMUM OF 2 (TWO) WORKING DAYS PRIOR TO MANUFACTURING IF THE PLANT IS LOCATED IN THE SOUTHERN CALIFORNIA AREA. ALL PLANTS LOCATED OUTSIDE OF SOUTHERN CALIFORNIA MUST SCHEDULE INSPECTION A MINIMUM OF 7 (SEVEN) WORKING DAYS PRIOR TO MANUFACTURING. REFER TO THE 2000 EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 4–1.3, FOR INSPECTION REQUIREMENTS.

7. ALL HORIZONTAL SEPARATION DIMENSIONS SHOWN BETWEEN WATER AND SEWER MAINS SHALL BE MEASURED FROM THE NEAREST EDGE OF EACH PIPELINE PER STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES, BASIC SEPARATION STANDARDS. MINIMUM SEPARATION BETWEEN WATER AND SEWER MAINS SHALL BE 10 FOOT HORIZONTAL AND 1 FOOT VERTICAL.

8. PRIVATE ON SITE SEWER IS SHOWN IN BOTH PLAN AND PROFILE FOR REFERENCE ONLY TO AVOID CONFLICTS AND TO SHOW CONNECTIONS TO PUBLIC LATERALS OR MAINS. ALL PRIVATE SEWER SHOWN SHALL BE INSTALLED UNDER SEPARATE PERMIT.

9. ALL PROPOSED PUBLIC SEWER FACILITY INSTALLATIONS SHALL BE CONSTRUCTED WITH MATERIALS CURRENTLY LISTED IN THE MOST CURRENT EDITION OF THE REDWOOD CITY) WATER AND MUNICIPAL SEWER APPROVED MATERIALS LIST AS REFERENCED IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

10. IN "GATED COMMUNITIES", THE DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING THE METROPOLITAN WASTEWATER DEPARTMENT/WASTEWATER COLLECTIONS DIVISION WITH KEYED ACCESS.
ADDITIONAL NOTES MAY BE REQUIRED BY THE PLAN REVIEWER TO ADDRESS SPECIFIC PROJECT REQUIREMENTS AND MAY INCLUDE THE FOLLOWING:.

A. ALL PROPOSED SEWER SHOWN ON THESE PLANS SHALL ADHERE TO THE REQUIREMENTS OF THEREDWOOD CITY), SEWER DESIGN GUIDE, DOCUMENT NO. 769875, FILED JUNE 11, 2001.

B. ALL EXISTING UNUSED SEWER LATERALS SHALL BE PLUGGED AT PROPERTY LINE BY CONTRACTOR.

C. PRIOR TO CONNECTING TO ANY EXISTING SEWER LATERAL, IT SHALL BE CLOSED CIRCUIT TELEVISION INSPECTED BY A CALIFORNIA LICENSED PLUMBING CONTRACTOR TO VERIFY LATERAL IS IN GOOD WORKING CONDITION AND FREE OF ALL DEBRIS.

D. NO SHRUBS MORE THAN 3 FEET IN HEIGHT AT MATURITY OR TREES ALLOWED WITHIN 10 FEET OF ANY PUBLIC SEWER MAINS OR SEWER LATERALS. NO PRESSURIZED LANDSCAPE IRRIGATION MAINS ALLOWED WITHIN ANY SEWER EASEMENTS.

E. ALL DUCTILE IRON PIPE PROPOSED FOR SEWER FORCE MAINS OR GRAVITY SEWER MAINS SHALL BE POLYURETHANE COATED AND LINED PER SECTION 02630 OF THE CLEAN WATER PROGRAM GUIDELINES. THE PIPE EXTERIOR SHALL BE 40 MILS MINIMUM DRY FILM THICKNESS (MDFT), AND THE PIPE INTERIOR SHALL BE 30 MILS MINIMUM DRY FILM THICKNESS (MDFT).

F. PRIVATE SEWERAGE SYSTEM DESIGN CERTIFICATION: I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THE PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PRIVATE SEWERAGE SYSTEM WHICH IS LOCATED WITHIN THE SEWER / WATER / GENERAL UTILITY EASEMENT / AND OR THE PUBLIC RIGHT–OF–WAY, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS AS REQUIRED BY THE CALIFORNIA PLUMBING CODE (CPC) 2000 EDITION AND THAT ALL REQUIRED "ENCROACHMENT AND MAINTENANCE AND REMOVAL AGREEMENT" FORMS, EXHIBITS AND NOTARY HAVE BEEN SUBMITTED FOR RECORDATION. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE REDWOOD CITY IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

G. FOR ALL SEWER PLANS: THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, CODES, ORDERS, AND REGULATIONS WHICH IN ANY MANNER AFFECT THE CONDUCT OF THE WORK, SPECIFICALLY AS IT RELATES TO SEWAGE SPILLS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PREVENTING SEWAGE SPILLS, FOR CONTAINING SEWAGE SPILLS, AND FOR RECOVERY AND LEGAL DISPOSAL OF ANY SPILLED SEWAGE, AND FOR ANY FINES, PENALTIES, CLAIMS AND LIABILITY ARISING FROM CAUSING A SEWAGE SPILL, AND FOR ANY VIOLATION OF ANY LAW, ORDINANCE, CODE, ORDER, OR REGULATION AS A RESULT OF THE SPILL(S).

H. FOR WORK INVOLVING CONNECTION TO EXISTING FACILITIES: PRIOR TO THE START OF CONSTRUCTION WHICH INVOLVES ANY EXISTING WASTEWATER FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND SUBMITTING TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL, A WASTEWATER FLOW DIVERSION PLAN IN COMPLIANCE WITH THE CITY'S POLICY OF "ZERO SPILLS" AT LEAST FIFTEEN WORKING DAYS PRIOR TO IMPLEMENTATION OF THE PLAN. THE DIVERSION PLAN SHALL INCLUDE AN EMERGENCY RESPONSE PLAN INDICATING THE PROCEDURES, EQUIPMENT, AND ACTIVITIES THAT WILL BE IMPLEMENTED IN THE EVENT OF AN EMERGENCY SHUTDOWN OR FAILURE OF THE FLOW DIVERSION EQUIPMENT USED FOR CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE EMERGENCY PLAN IN ACCORDANCE WITH SECTION 7–8.8.1 OF THE 20REDWOOD CITYEGO SUPPLEMENT AMENDMENTS (DOC. NO. AEC 701041) TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

I. FOR WORK WHERE BYPASS PUMPING MAY BE INVOLVED ADD: AT LEAST 15 WORKING DAYS PRIOR TO THE IMPLEMENTATION OF ANY FLOW DIVERSION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND SUBMITTING TO THE RESIDENT ENGINEER, FOR REVIEW AND APPROVAL, A WASTEWATER FLOW DIVERSION PLAN. THE CONTRACTOR'S WASTEWATER FLOW DIVERSION PLAN SHALL BE REVIEWED AND APPROVED BY THE WASTEWATER COLLECTION DIVISION, METROPOLITAN WASTEWATER DEPARTMENT, BEFORE ANY FLOW CAN BE DIVERTED. THE DIVERSION PLAN SHALL INDICATE THE SEQUENCE OF DIVERSION OPERATIONS AND ALL OTHER OPERATIONS THE CONTRACTOR WILL ESTABLISH TO MAINTAIN WASTEWATER SERVICE DURING THE CONSTRUCTION PERIOD. THE DIVERSION PLAN SHALL INCLUDE A COMPREHENSIVE EMERGENCY RESPONSE PLAN, INCLUDING STANDBY REDUNDANT BY–PASS EQUIPMENT, IN THE EVENT OF AN EMERGENCY SHUTDOWN OR FAILURE OF THE FLOW DIVERSION EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE EMERGENCY PLAN IN ACCORDANCE WITH SECTION 7–8.8.1 OF THE 2REDWOOD CITYDIEGO SUPPLEMENT AMENDMENTS (DOC. NO. AEC 701041 TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

WATER NOTES

1. EACH LOT SHALL RECEIVE A 1–INCH WATER SERVICE, UNLESS INDICATED ON THE PLANS OR SPECIAL SPECIFICATIONS. LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER OF WORK. THE "AS–BUILT" LOCATIONS SHALL BE SHOWN ON THESE PLANS AND THE SEWER LATERAL TABLE COMPLETED PRIOR TO ACCEPTANCE OF THE WATER FACILITIES.

2. LOCATE WATER SERVICE HOUSE CONNECTIONS OUT OF DRIVEWAYS. THE SEWER HOUSE CONNECTIONS SHALL BE A MINIMUM OF 5 FEET DOWNHILL FROM THE WATER SERVICE.

3. ALL CONNECTIONS TO EXISTING WATER MAINS ARE TO BE DONE BY THE CITY'S DEPARTMENT FOR WHICH THE FOLLOWING FEES WILL BE CHARGED. IF THE WATER CONNECTIONS ARE NOT READY TO BE MADE AND THE FEES PAID BEFORE _____, THE CITY RESERVES THE RIGHT TO ADJUST THE FEES ACCORDING TO THE FEE SCHEDULE IN EFFECT AT THE TIME THE CONNECTIONS ARE MADE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXPOSE THE EXISTING MAIN AT THE CONNECTION POINT AND TO INSTALL THE NEW MAIN AT THE ALIGNMENT AND GRADE WHICH WILL PERMIT THE CITY TO MAKE A "STRAIGHT–IN" CONNECTION WITHOUT USING MORE THAN 10 LINEAL FEET OF PIPE.

	COST	TYPE OF CONNECTION	METER NUMBER	SHEET
ITEM NO.1	$7,456.06	12"X12"X12" REMOVE TEE/ 12"x12" STRAIGHT IN CONNECTION		4
ITEM NO.2	$245.00	2" KILL SERVICE INSPECTION ONLY		4
ITEM NO.3	$45.00	REMOVE METER	12551389	4
ITEM NO.4	$45.00	REMOVE METER	16038551	4
ITEM NO.5	$45.00	REMOVE METER	15185727	4
ITEM NO.6	$45.00	2" KILL SERVICE	11956915	4
ITEM NO.7	$45.00	REMOVE METER	11956923	4
ITEM NO.8	$45.00	REMOVE METER	12851389	4
ITEM NO.9	$45.00	REMOVE METER	15185744	4
ITEM NO.10	$45.00	REMOVE METER	16038537	4
ITEM NO.11	$45.00	REMOVE METER	13581432	4
ITEM NO.12	$778.00	SHUTDOWN EXISTING 12" MAIN		4
ITEM NO.13	$519.00	RECHARGE EXISTING 12" MAIN		4
ITEM NO.14	$11,080.00	12"X12" TEE CUT IN		8
ITEM NO.15	$318.00	4" WET TAP		8

CONTRACTOR TO SET SADDLE/TAPPING SLEEVE AND CORPORATION STOP/TAPPING VALVE FOR ALL WET TAPS APPROVAL BY THE SHUTDOWN COMMITTEE IS REQUIRED FOR ALL MAJOR PIPELINES 16" AND LARGER. SHUTDOWN WINDOW PERIOD IS BETWEEN NOVEMBER 1 TILL APRIL 1 OF THE FOLLOWING YEAR, WHEN WATER DEMAND IS LOWER.

4. PROVIDING WATER FOR THIS DEVELOPMENT IS DEPENDENT UPON PRIOR CONSTRUCTION OF CERTAIN WATER FACILITIES IN PREVIOUSLY APPROVED DEVELOPMENTS. IF THESE FACILITIES HAVE NOT BEEN CONSTRUCTED AND ACCEPTED BY THE CITY AT THE TIME OF CONNECTION, THEN CERTAIN PORTIONS OF THESE PREVIOUSLY APPROVED OR PLANNED WATER FACILITIES, AS REQUIRED BY THE CITY ENGINEER, WILL BECOME OFF–SITE IMPROVEMENTS AS PART OF THIS DEVELOPMENT. PRIOR TO CONNECTION TO PUBLIC WATER FACILITIES, THESE OFF–SITE IMPROVEMENTS MUST BE CONSTRUCTED AND ACCEPTED BY THE CITY AND DOCUMENTED AS A CONSTRUCTION CHANGE TO THE ORIGINAL APPROVED MYLARS FOR THIS DEVELOPMENT. THIS DEVELOPMENT'S WATER FACILITIES ARE DEPENDENT UPON THE COMPLETION AND ACCEPTANCE OF THE FOLLOWING APPROVED WATER FACILITIES:

5. ALL VALVES WILL BE FLANGED TO CROSSES AND TEES. ONLY GATE VALVES SHALL BE USED IN FIRE HYDRANT INSTALLATIONS. ALL BURIED DUCTILE AND GRAY CAST IRON PIPE, FITTINGS, VALVES AND APPURTENANCES SHALL BE COATED WITH A DIELECTRIC COATING: A LIQUID EPOXY COATING SYSTEM PER AWWA C–210 AT 24 MILS MINIMUM DRY FILM THICKNESS (MDFT), OR A COLD APPLIED THREE PART SYSTEM PETROLEUM WAX TAPE PER AWWA C–217, OR A 100% POLYURETHANE X COATING OF 24 MILS MDFT SUITABLE FOR BURIED USE. X

6. ALL PROPOSED WATER FACILITY INSTALLATIONS SHALL BE CONSTRUCTED WITH MATERIALS CURRENTLY LISTED IN THE MOST CURRENT EDITION OF THE REDWOOD CITY WATER UTILITIES DEPARTMENT APPROVED MATERIALS LIST AS REFERENCED IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. RECENT REVISIONS INCLUDE BUT IS NOT LIMITED TO THE REQUIREMENT FOR POLYMER CONCRETE WATER METER BOXES INSTEAD OF THE STANDARD PRECAST WATER METER BOXES.

7. ALL HORIZONTAL AND VERTICAL SEPARATION DIMENSIONS SHOWN BETWEEN WATER AND SEWER MAINS SHALL BE MEASURED FROM THE NEAREST EDGE OF EACH PIPELINE PER STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES, BASIC SEPARATION STANDARDS. MINIMUM SEPARATION BETWEEN WATER AND SEWER MAINS SHALL BE 10 FOOT HORIZONTAL AND 1 FOOT VERTICAL.

CUSTOMER DISCLAIMER FOR SALES ORDER ISSUANCE IN ADVANCE OF THE WATER METER DATA CARD APPROVAL

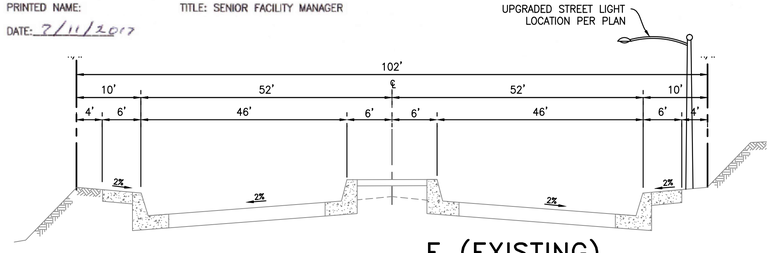
THE CUSTOMER FOR THIS PROJECT HAS AGREED TO TAKE ALL RISK AND RESPONSIBILITY ASSOCIATED WITH OBTAINING A SALES ORDER AND/OR INVOICE AHEAD OF THE OFFICIAL CITY–APPROVAL OF THE RESPECTIVE WATER METER DATA CARD; SHOULD THE CITY–APPROVED WATER METER DATA CARD REVEAL AN INCORRECT SIZE HAS BEEN ISSUED ON THE SALES ORDER AND/OR INVOICE, THE CUSTOMER OF THIS PROJECT SHALL TAKE FISCAL RESPONSIBILITY ASSOCIATED IN MAKING CORRECT ADJUSTMENT PER ANY CITY REQUIREMENTS.

OWNER:

SIGNATURE: _____

PRINTED NAME: TITLE: SENIOR FACILITY MANAGER

DATE: 7/11/2017



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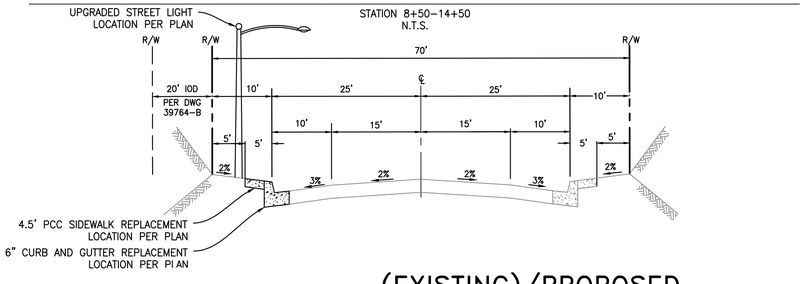


(EXISTING)/PROPOSED

STATION 46+00–53+50
N.T.S.

STRIPING AND SIGNING GENERAL NOTES

1. INSTALLATION OF ALL STRIPING, SIGNS AND PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. ALL STRIPING AND SIGNING SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITION OF THE FOLLOWING MANUALS:

DESCRIPTION	EDITION	DOCUMENT NO.
STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREENBOOK")	2012	PITS070112–01
REDWOOD CITY STANDARD DRAWINGS	2012	PITS070112–03
CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)	2012	PITS070112–06

3. ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.

4. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS AND LEGENDS BY SANDBLASTING AND/OR GRINDING WITH THE SEAL. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.

5. SIGN POSTS SHALL BE INSTALLED WITH SQUARE PERFORATED STEEL TUBING WITH A BREAKAWAY BASE PER REDWOOD CITY) STANDARD DRAWING M–45.

6. ALL RAISED MEDIAN NOSES SHALL BE PAINTED YELLOW.

7. ALL SIGNS SHOWN ON THE STRIPING AND SIGNING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO BE RELOCATED OR TO REMAIN.

8. STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.

9. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE THERMOPLASTIC.

10. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858) 495–4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO AND UPON COMPLETION OF STRIPING AND SIGNING.

		AS–BUILT PAVEMENT STRUCTURAL SECTION		
STREET NAME	STATION LIMITS	AC (IN.)	CTB (IN.)	PCC (IN.)

NOTE:
STREET SUBGRADE SOIL SAMPLES ARE TO BE TAKEN FOR "R" VALUE ANALYSIS BY A PRIVATE GEOTECHNICAL ENGINEERING FIRM AND UNDER THE DIRECTION OF THE RESIDENT ENGINEER. THESE ANALYSIS ARE TO BE PERFORMED BY A CERTIFIED PRIVATE GEOTECHNICAL FIRM TO DETERMINE THE PAVEMENT SECTION(S) DURING CONSTRUCTION. A PAVEMENT SECTION LETTER WILL BE ISSUED BY THE CITY.

Street Excavation Table

Street Name	Street Classification (Arterial, Major Collector, Residential)	Utility Type (Wet or Dry)	Lateral or Main	Street Service Age (YRS)	Influence Area width (ft) Per MC 62.1208	Trench Width (ft)	Trench Length (ft)
	COLLECTOR	WET	LAT	44	6.83	2.33	50
	COLLECTOR	WET	LAT	44	6.83	1.67	50

TRUCK HAUL NOTES

THE CONTRACTOR SHALL SUBMIT A TRUCK HAUL ROUTE PLAN (11"X17") FOR APPROVAL PRIOR TO STARTING EXPORT OR IMPORT OF MATERIAL. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR, BOOTH 22, BUILDING, SAFETY & CONSTRUCTION DIVISION, DEVELOPMENT SERVICES CENTER, CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.

ENCROACHMENT DATA

APPROVAL NO	ENCROACHMENT IMPROVEMENT TYPE	ENCROACHMENT PROPERTY TYPE	SEE SHEET NUMBERS
1942676	SEWER	ROW	8
1942676	STORM DRAIN	ROW	10
1942676	STORM DRAIN	ROW	10

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. WOLFE NO. 44271 CIVIL STATE OF CALIFORNIA

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

NOTES FOR:

GENE THEORY

PARCELS 1, 2, 3, & 4 OF PM 13198

(REDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 3 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454

FOR CITY ENGINEER DATE

V.T.M. N/A

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS–BUILTS				

1902–6279
CCS '83 COORDINATES

262–1719
LAMBERT COORDINATES

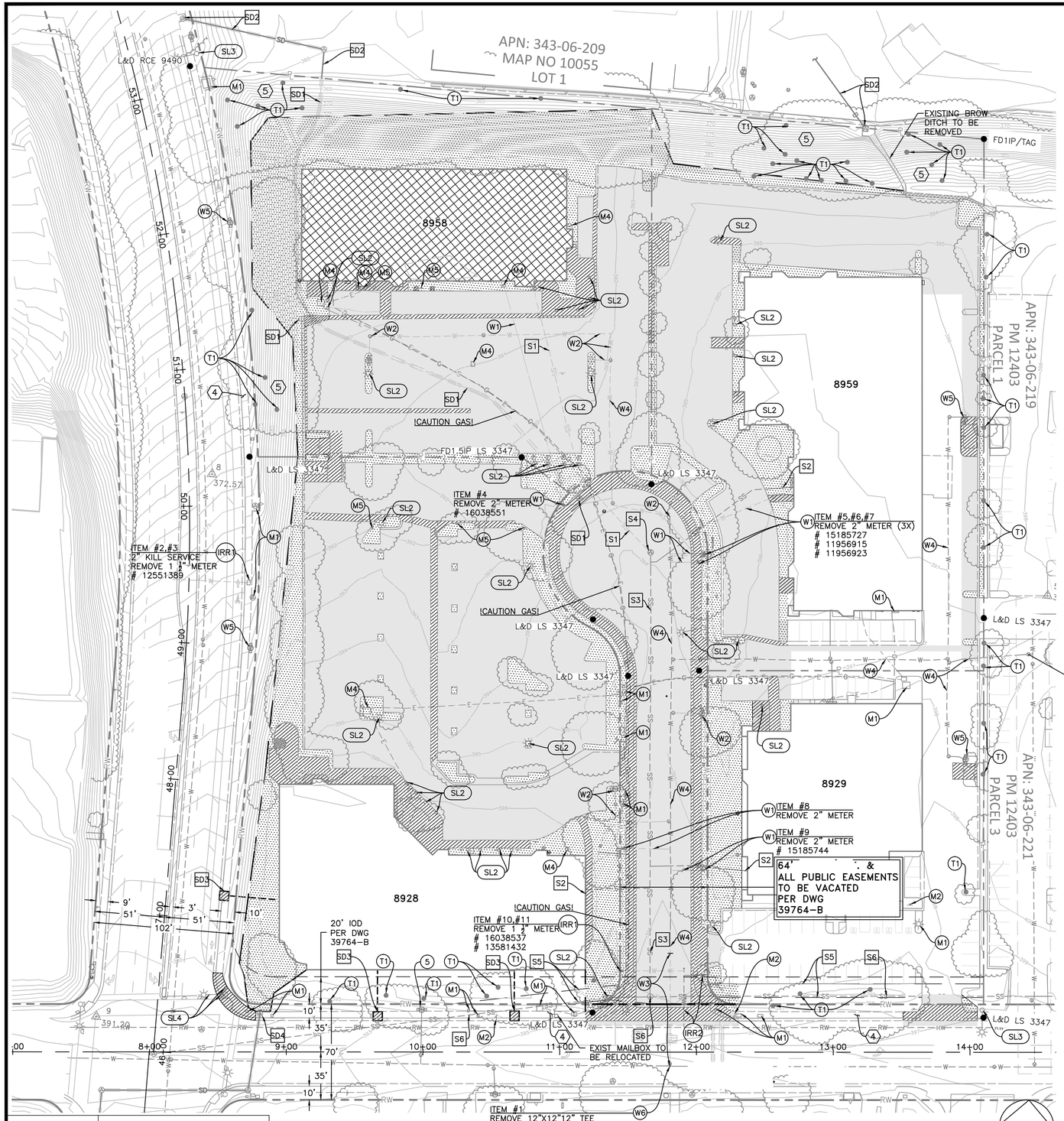
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

40031–03–D

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

FOR REFERENCE ONLY



NOTE:

ALL SEWER, WATER, STORM DRAIN FACILITIES REMOVED AND/OR ABANDONED PER THESE PLANS TO BREDWOOD CITYAN DIEGO STANDARDS.

LEGEND:

- EXISTING BUILDING TO BE DEMOLISHED PER SEPARATE BUILDING DEMOLITION PERMIT
- LANDSCAPE/CLEARING AND GRUBBING
- REMOVE CONCRETE PAVING, SIDEWALK, CURB & GUTTER, CURB RAMP
- REMOVE ASPHALT CONCRETE PAVING
- LIMITS OF SURFACE CLEARING & GRUBBING OPERATIONS
- SURVEY MONUMENT

NOTES:

1. CONCRETE PAVEMENT – WHERE SAWCUT @ MATCH POINTS SAWCUT WILL BE FULL DEPTH. REMOVE ALL PCC SLABS, SIDEWALKS, PADS, BUILDING ENTRIES, TRASH ENCLOSURES AND CURBS AS SHOWN WITHIN LIMITS OF WORK.
2. ASPHALT CONCRETE PAVEMENTS – SAWCUT FULL DEPTH AT MATCH POINT. REMOVE SURFACING. PROTECT EXISTING UTILITY ACCESS LIDS, GRATES AND COVERS WHERE EXISTING UTILITY IS TO REMAIN. INCLUDES ALL BOLLARDS AND CURBS.
3. LANDSCAPE / CLEAR AND GRUB – REMOVE EXISTING ORGANIC MATERIALS, ROOTS, TREES, TRUNKS, STUMPS AND OTHER LANDSCAPE AND PLANTINGS AS REQUIRED WITHIN LIMITS OF WORK.
4. CONTRACTOR TO REMOVE AND REPLACE DAMAGED SIDEWALK. (IF REQUIRED PER THE CITY ENGINEER)
5. EXISTING TREES TO REMAIN ON SITE WITHIN 10 FEET OF THE LIMIT OF WORK WILL BE PROTECTED IN PLACE. THE FOLLOWING PROTECTION MEASURES WILL BE PROVIDED:
   1. A BRIGHT YELLOW OR ORANGE TEMPORARY FENCE WILL BE PLACED AROUND EXISTING TREES AT THE DRIP LINE.
   2. STOCKPILING, TOPSOIL DISTURBANCE, VEHICLE USE, AND MATERIAL STORAGE OF ANY KIND IS PROHIBITED WITHIN THE DRIP LINE.
   3. A TREE WATERING SCHEDULE WILL BE MAINTAINED AND DOCUMENTED DURING CONSTRUCTION.
   4. ALL DAMAGED TREES WILL BE REPLACED WITH ONE OF EQUAL OR GREATER SIZE.

DEMOLITION NOTES:

- SD1 REMOVE EXISTING PRIVATE STORM DRAIN, PIPE INLETS, BASINS AND CLEANOUTS.
- SD2 EXISTING PUBLIC STORM DRAIN TO REMAIN.
- SD3 REMOVE EXISTING ROOF DRAINS, CURB, SIDEWALK JOINT TO JOINT AND UNDER DRAINS.
- SD4 EXISTING TYPE B CURB INLET TO REMAIN, PROTECT IN PLACE.
- W1 EXISTING WATER SERVICE METER AND BACKFLOW TO BE REMOVED. KILL SERVICE AT MAIN AND REMOVE SERVICE LATERAL TO BUILDING P.O.C. ITEM #6 & #8, SEE SHEET 3.
- W2 REMOVE EXISTING WATER MAIN, FIRE SERVICE LATERAL OR FIRE HYDRANT ASSEMBLY TO MAIN. REMOVE TEE & REPLACE MAIN SECTION.
- W3 SEE NEW UTILITY PLAN & COORDINATE REMOVALS.
- W4 PROTECT EXISTING WATER MAIN IN PLACE.
- W5 PROTECT FIRE HYDRANT IN PLACE.
- W6 REMOVE EXISTING 12"X12"X12" TEE. ITEM #1, SEE SHEET 3.
- S1 REMOVE EXISTING PRIVATE SEWER LATERAL. INSTALL CONCRETE CAP AT MAIN WYE OR AT MANHOLE.
- S2 PROTECT EXISTING PRIVATE SEWER LATERAL IN PLACE.
- S3 PROTECT EXISTING PRIVATE SEWER MAIN IN PLACE – PROVIDE SEWER CLEANING AND TV VIDEO OF EXISTING MAIN AFTER SEWER LATERAL WORK IS COMPLETE.
- S4 RAISE EXISTING PRIVATE MANHOLE FRAME AND COVER TO NEW GRADE, CHIP AND REPLACE CHANNEL SECTION AND SACK MIX INSIDE WALL.
- S5 EXISTING 10' PUBLIC SEWER EASEMENT. NO SEWER WORK ALLOWED UNLESS ENCROACHMENT PERMIT IS APPROVED.
- S6 PROTECT EXISTING PUBLIC SEWER MAIN AND MANHOLE IN PLACE.
- SL1 REMOVE EXISTING PUBLIC STREET LIGHT AND SALVAGE TO CITY AND REMOVE TOP 2' OF FOUNDATION INCLUDING ALL SERVICE CONDUCTOR AND CONDUIT.
- SL2 REMOVE EXISTING PRIVATE PARKING LIGHT STAND AND REMOVE TOP OF 2' OF FOUNDATION INCLUDING ALL SERVICE CONDUCTOR AND CONDUIT AND PULL BOXES.
- SL3 EXISTING PUBLIC STREET LIGHT TO BE UPGRADED TO NEW STANDARD.
- SL4 PROTECT EXISTING TRAFFIC POLE/SIGNAL IN PLACE.
- IRR1 REMOVE EXISTING IRRIGATION SERVICE/METER. PER ITEM #6 & #7. SEE SHEET 3.
- IRR2 PROTECT EXISTING IRRIGATION IN PLACE.
- M1 PROTECT EXISTING UTILITY IN PLACE.
- M2 PROTECT EXISTING SIGNAGE IN PLACE.
- M3 PROTECT EXISTING LIGHTING IN PLACE.
- M4 REMOVE EXISTING UTILITY BOX/VAULT.
- M5 REMOVE EXISTING SIGNAGE.
- T1 PROTECT EXISTING TREE IN PLACE

SURFACE AND UTILITY DEMOLITION PLAN

SCALE: 1" = 40'

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

SURFACE AND UTILITY DEMOLITION PLAN FOR:
GENE THEORY

(REDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 4 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454

FOR CITY ENGINEER ____ DATE ____ V.T.M. N/A

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

1902-6279
CCS '83 COORDINATES
262-1719
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

40031-04-D

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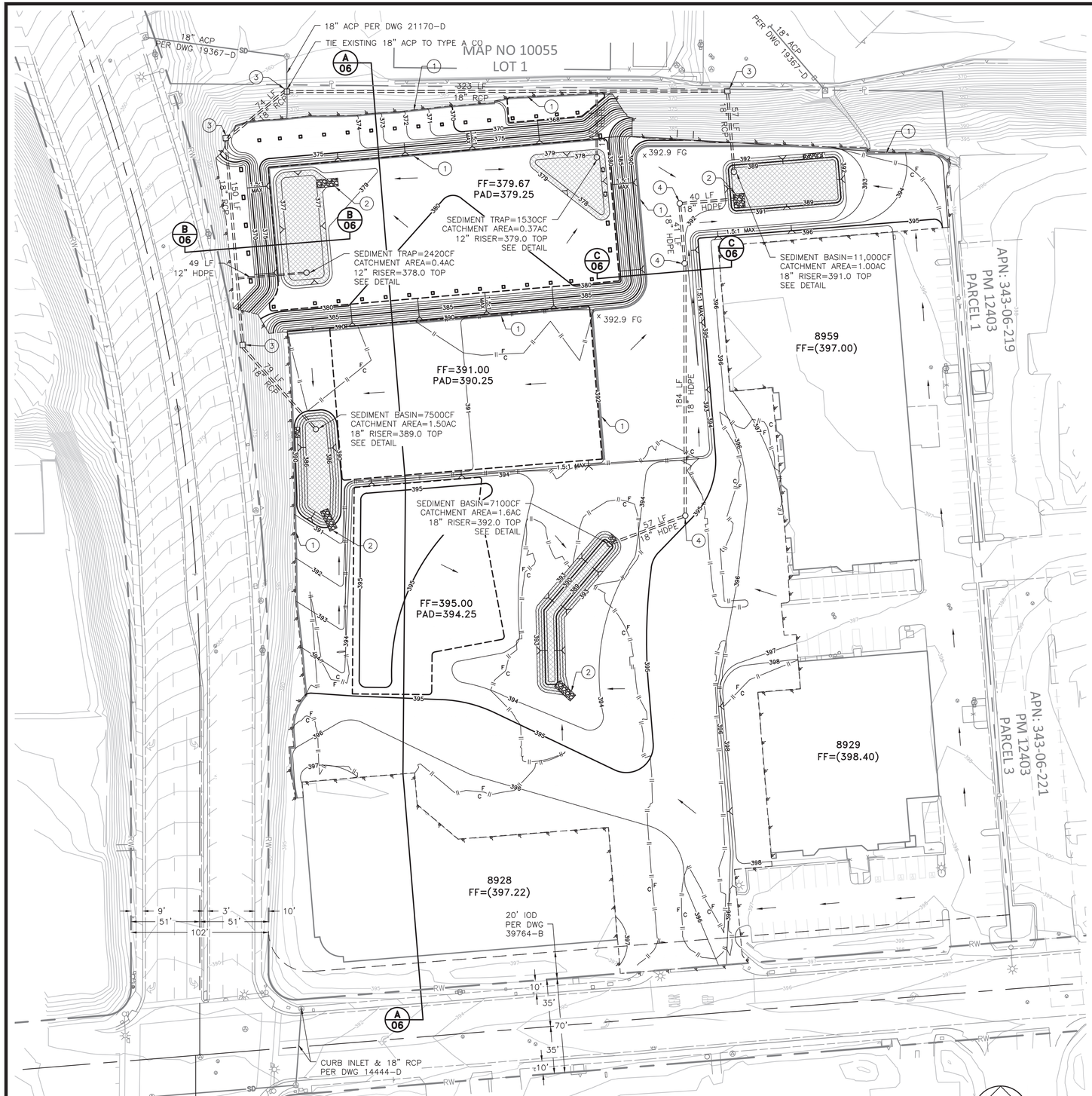
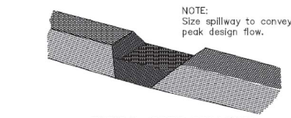


ROUGH GRADING PLAN

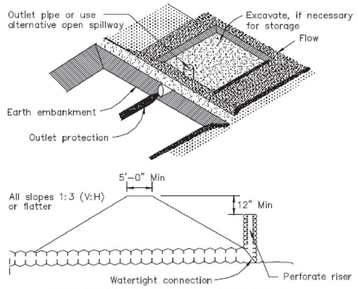
N

40 20 0 40 80

SCALE: 1" = 40'



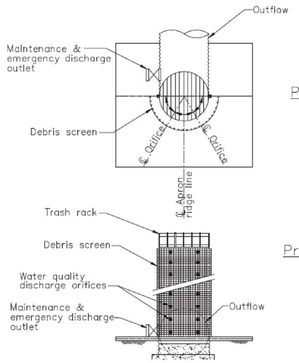
TYPICAL OPEN SPILLWAY

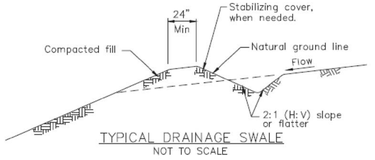


EMBANKMENT SECTION THRU RISER

SEDIMENT TRAP

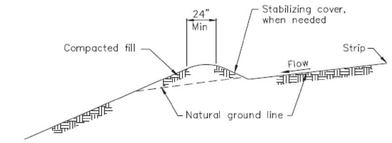
N.T.S.





TYPICAL DRAINAGE SWALE
NOT TO SCALE

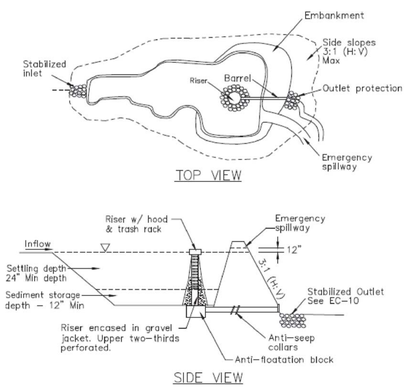
NOTES:
1. Stabilize inlet, outlets and slopes.
2. Properly compact the subgrade.



TYPICAL EARTH DIKE
NOT TO SCALE

EARTHEN SWALE/DIKE

N.T.S.



TEMPORARY SEDIMENTATION BASIN

N.T.S.

CONSTRUCTION NOTES

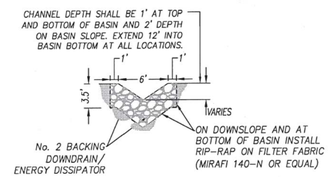
1. EARTHEN SWALE/DIKE PER DETAIL
2. RIP RAP ENERGY DISSIPATOR PER DETAIL
3. STORM DRAIN CLEAN OUT TYPE A PER SDRSD D-9
4. TEMPORARY CLEAN OUT WITH WATERTIGHT LID

LEGEND

- TEMPORARY CUT SLOPE (1.5:1 MAX)
- ROUGH GRADE CONTOURS — 195
- TEMPORARY SEDIMENT BASIN
- LIMITS OF GRADING
- CUT & FILL LINE — F / C
- PROPOSED PAD LIMITS
- SWALE/DIKES
- DIRECTION OF RUNOFF
- RIP-RAP DISSIPATOR

NOTE

FOR COMPLETE STORM DRAIN SYSTEM SEE SHEET 10.



ENERGY DISSIPATOR

N.T.S.

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

ROUGH GRADING PLAN FOR:
GENE THEORY

(REDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 5 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454
V.T.M. N/A

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

1902-6279
CCS '83 COORDINATES
262-1719
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
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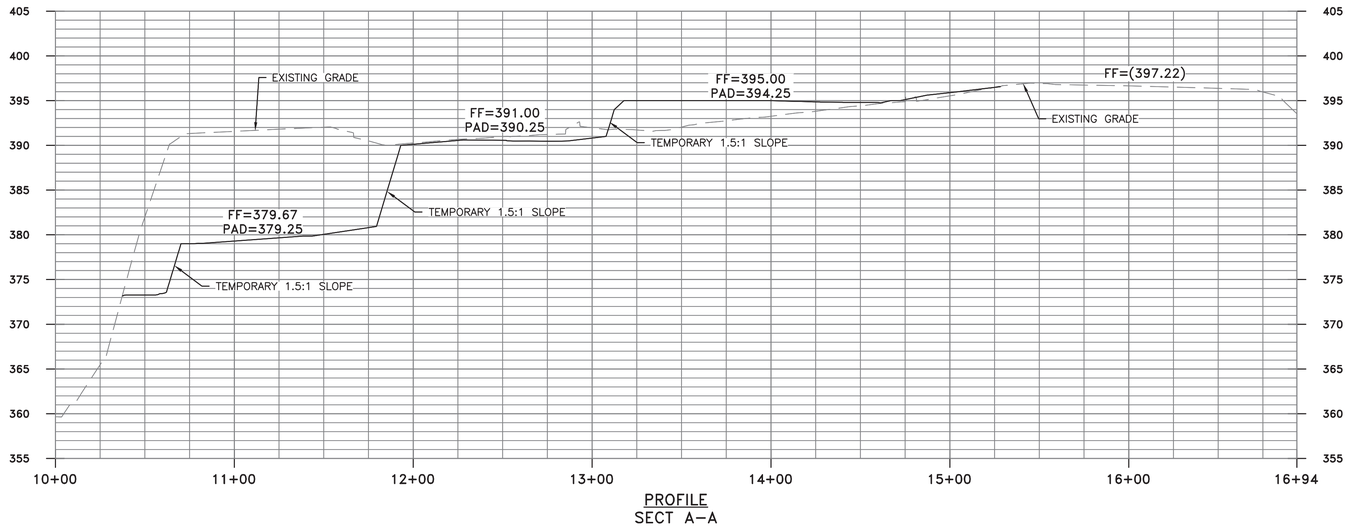
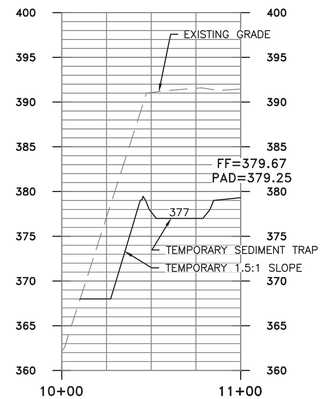
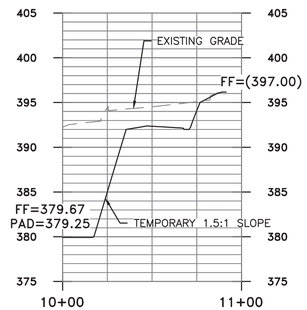


PROFILE
SECT A–A



PROFILE
SECT B–B



PROFILE
SECT C–C

SECTIONS

VERTICAL SCALE 1"= 8'

40 20 0 40 80

SCALE: 1" = 40'

ROUGH GRADING SECTIONS FOR:

GENE THEORY

(REDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 6 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454

FOR CITY ENGINEER _____ DATE _____

V.T.M. N/A

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS–BUILTS				

1902–6279
CCS '83 COORDINATES

262–1719
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

40031–06–D

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

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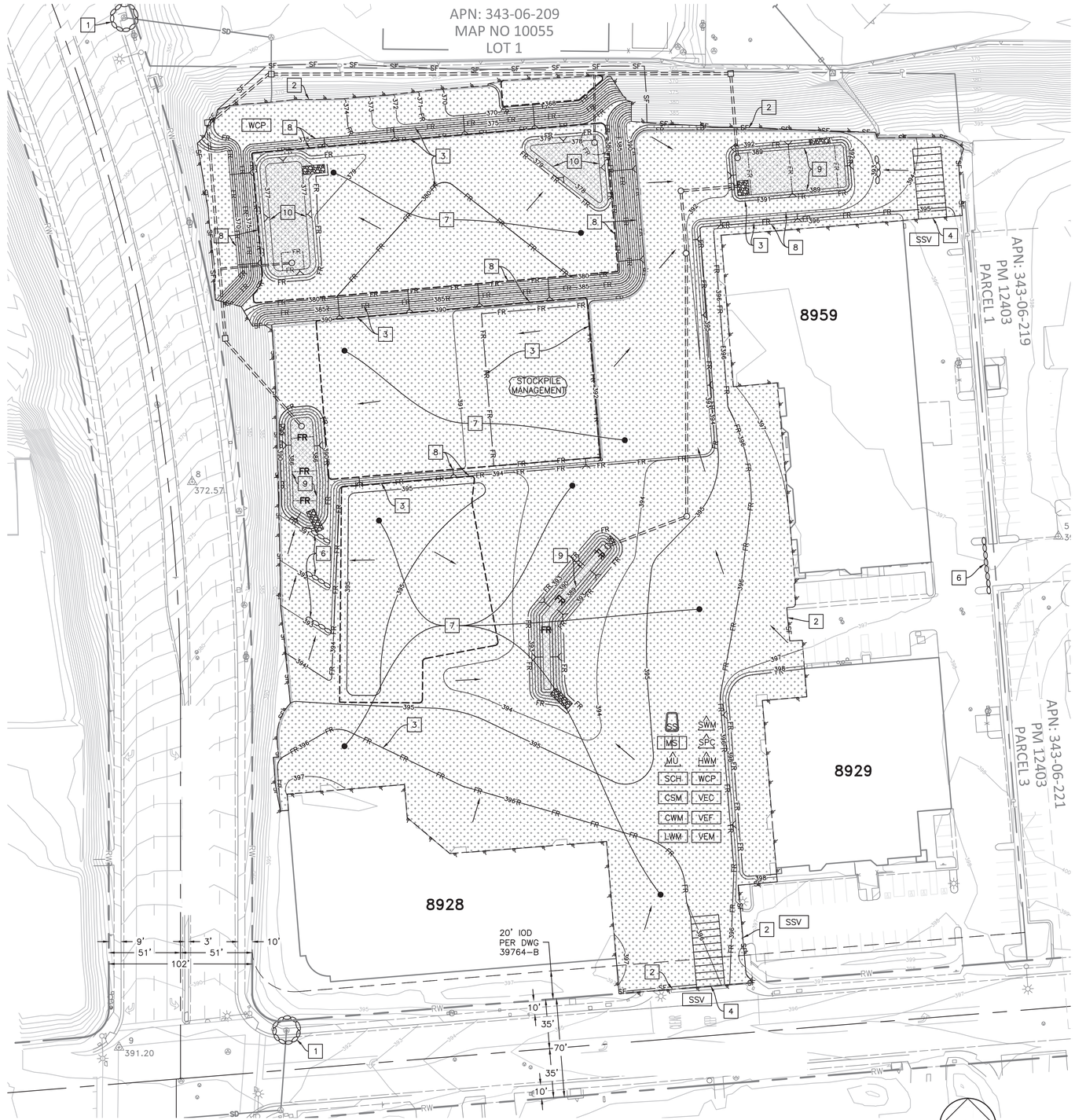

EROSION CONTROL PLAN

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

NOTES

1. LOCATION OF GRADING, BUILDING, AND ACTIVITY AREAS (E.G. FUELING ISLANDS, WASTE CONTAINER AREA, WASH RACKS, ETC.) IS TO BE DETERMINED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND ADDED TO THIS PLAN.
2. CONTRACTOR SHALL NOTE ON THIS PLAN THE LOCATIONS, IF ANY, WHERE MATERIALS ARE DIRECTLY EXPOSED TO THE STORM WATER.
3. BASINS ARE TO BE CLEARED OF CONSTRUCTION SILT AND MUD PRIOR TO THE INSTALLATION OF THE BASIN UNDERDRAIN SYSTEM, IF ANY.
4. THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE LOCATION, SCOPE AND/OR TYPE OF CONSTRUCTION BMPS AS NECESSARY IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION TO PROVIDE ADEQUATE PROTECTION DURING THE DURATION OF WORK.
5. ALL GRADED, DISTURBED OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED OR COVERED BY STRUCTURES SHALL BE PERMANENTLY REVEGETATED AND IRRIGATED AS SHOWN IN TABLE 142-04F AND IN ACCORDANCE WITH THE STANDARDS IN THE SDMC §142.0411 . ALL REQUIRED REVEGETATION AND EROSION CONTROL SHALL BE COMPLETED WITHIN 90 CALENDAR DAYS OF THE COMPLETION OF GRADING OR DISTURBANCE.

HYDROSEEDING PROCEDURES

1. SEED MIXES SHALL BE SPECIFIED BY THE PURE LIVE SEED OF EACH SPECIES.
2. FIBER MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 2,000 POUNDS PER ACRE ON FLAT PAD AREAS AND 2,500 POUNDS PER ACRE ON SLOPE AREAS.
3. A WETTING CONSISTING OF 95 PERCENT ALKYL POLYETHYLENE GLYCOL ETHER SHALL BE APPLIED AS PER MANUFACTURERS' RECOMMENDATIONS.
4. EQUIPMENT USED FOR THE APPLICATION OF SLURRY SHALL HAVE A BUILT-IN AGITATION SYSTEM TO SUSPEND AND HOMOGENEOUSLY MIX THE SLURRY. THE SLURRY MIX SHALL BE DYED GREEN. THE EQUIPMENT MUST HAVE A PUMP CAPABLE OF APPLYING SLURRY UNIFORMLY.
5. GRADED, DISTURBED, OR ERODED AREAS TO BE TREATED WITH A NON-IRRIGATED HYDROSEED MIX SHALL RECEIVE AN INTERIM BINDER/TACKIFIER AS NEEDED FOR DUST/EROSION CONTROL BETWEEN APRIL 2ND AND AUGUST 31ST WITH SUBSEQUENT APPLICATION OF HYDROSEED MIX DURING THE RAINY SEASON BETWEEN OCTOBER 1ST AND APRIL 1ST.

NON-IRRIGATED HYDROSEED MIX

SEED MIX FOR FLAT PAD AREAS:

BOTANICAL NAME:	COMMON NAME:	MIN % PUR/GERM	LBS/ACRE
ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY		3
LASTHENIA CALIFORNICA	GOLDFIELDS	50/60	0.25
LOTUS SCOPARIUS	DEERWEED	90/60	4
ORTHOCARPUS PURPURASCENS	OWL'S CLOVER	50/50	1.5
AGROSTIS PALLENS	) BENTGRASS	NOT AVAIL.	2
HORDEUM BRANCHYANTHERUM	MEADOW BARLEY	NOT AVAIL.	8
PLANTAGO INSULARIS	N.C.N.	98/75	10
		TOTAL SEED:	28.75
	BINDER ("M-BINDER", ECOLOGY CONTROLS CO.)		150 LBS/ACRE
	"ENVIRO FIBER S-100 HYDROSEEDING MULCH (S&S SEEDS)		2,000 LBS/ACRE

SEED MIX FOR FLAT PAD AREAS:

BOTANICAL NAME:	COMMON NAME:	MIN % PUR/GERM	LBS/ACRE
LOTUS SCOPARIUS	DEERWEED	90/60	4
AGROSTIS PALLENS	) BENTGRASS	NOT AVAIL.	2
HORDEUM BRANCHYANTHERUM	MEADOW BARLEY	NOT AVAIL.	8
PLANTAGO INSULARIS	N.C.N.	98/75	10
SALVIA MELLIFERA	BLACK SAGE	NOT AVAIL.	3
BAHIOPSIS (VIGUIERA) LACINIATA	) SUNFLOWER	NOT AVAIL.	4
ARTEMISIA CALIFORNICA	CARLIFORNIA SAGEBRUSH	NOT AVAIL.	4
MIMULUS LONGIFLORUS	STICKY MONKEYFLOWER	NOT AVAIL.	2
		TOTAL SEED:	37
	BINDER ("M-BINDER", ECOLOGY CONTROLS CO.)		240 LBS/ACRE
	"ENVIRO FIBER S-100 HYDROSEEDING MULCH (S&S SEEDS)		2,500 LBS/ACRE

INTERIM BINDER NOTE

GRADED, DISTURBED, OR ERODED AREAS TO BE TREATED WITH A NON-IRRIGATED HYDROSEED MIX SHALL RECEIVE AN INTERIM BINDER/ TACKIFIER AS NEEDED BETWEEN APRIL 2 AND AUGUST 31 FOR DUST-EROSION CONTROL WITH SUBSEQUENT APPLICATION OF HYDROSEED MIX DURING THE RAINY SEASON BETWEEN OCTOBER 1 AND APRIL 1.

BMPS TO BE IMPLEMENTED

EC-1	SCHEDULING	WM-1	MATERIAL DELIVERY AND STORAGE
EC-3	HYDRAULIC MULCH	WM-2	MATERIAL USE
EC-4	HYDROSEEDING	WM-3	STOCKPILE MANAGEMENT
EC-7	GEOTEXTILES AND MATS	WM-4	SPILL PREVENTION AND CONTROL
WE-1	WIND EROSION CONTROL	WM-5	SOLID WASTE MANAGEMENT
NS-1	WATER CONSERVATION PRACTICES	WM-6	HAZARDOUS WASTE MANAGEMENT
NS-2	DEWATERING OPERATIONS	WM-7	CONTAMINATED SOIL MANAGEMENT
NS-3	PAVING AND GRINDING OPERATIONS	WM-9	SANITARY WASTE MANAGEMENT
NS-6	ILLICIT CONNECTION/DISCHARGE	WM-10	LIQUID WASTE MANAGEMENT
NS-8	VEHICLE AND EQUIPMENT CLEANING		
NS-9	VEHICLE AND EQUIPMENT FUELING		
NS-10	VEHICLE AND EQUIPMENT MAINTENANCE		
SE-1	SILT FENCE		
SE-2	SEDIMENT BASIN		
SE-3	SEDIMENT TRAP		
SE-5	FIBER ROLLS		
SE-6	GRAVEL BAD BERMS		
SE-7	STREET SWEEPING AND VACUUMING		
SE-10	STORM DRAIN INLET PROTECTION		
TC-1	CONSTRUCTION ENTRANCE/EXIT		
TC-2	STABILIZED CONSTRUCTION ROADWAY		
TC-3	ENTRANCE/OUTLET TIRE WASH		

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

EROSION CONTROL LEGEND

PROPOSED STORM DRAIN	
6' HIGH CONSTRUCTION FENCE (CHAIN LINK)	X
DIRECTION OF FLOW/RUNOFF	
SCHEDULING PER EC-1	SCH
HYDRAULIC MULCH PER EC-3 AND HYDROSEEDING PER EC-4	
SILT FENCE PER SE-1	SF
FIBER ROLL PER SE-5	FR
GRAVEL BAG BERM PER SE-6	
STREET SWEEPING AND VACUUMING PER SE-7	SSV
STORM DRAIN INLET PROTECTION PER SE-10	
STABILIZED CONSTRUCTION ENTRANCE PER TC-1	
MATERIAL DELIVERY AND STORAGE PER WM-1	MS
MATERIAL USE PER WM-2	MU
STOCKPILE MANAGEMENT PER WM-3	STOCKPILE MANAGEMENT
SPILL PREVENTION AND CONTROL PER WM-4	SWM
SOLID WASTE MANAGEMENT PER WM-5	SPC
HAZARDOUS WASTE MANAGEMENT PER WM-6	HWM
HAZARDOUS WASTE MANAGEMENT PER WM-7	CSM
CONCRETE WASTE MANAGEMENT PER WM-8	CWM
SANITARY/SEPTIC WASTE MANAGEMENT PER WM-9	SS
LIQUID WASTE MANAGEMENT PER WM-10	LWM
WATER CONSERVATION PRACTICES PER NS-1	WCP
VEHICLE AND EQUIPMENT CLEANING PER NS-8	VEC
VEHICLE AND EQUIPMENT FUELING PER NS-9	VEF
VEHICLE AND EQUIPMENT MAINTENANCE PER NS-10	VEM

EROSION CONTROL NOTES

1. INSTALL STORM DRAIN INLET PROTECTION PER CASQA (CA BMP HANDBOOK FACT SHEET SE-10, D1 PROTECTION TYPE 3 WITH GRAVEL BAGS
2. INSTALL SILT FENCE PER CA BMP HANDBOOK FACT SHEET SE-1
3. INSTALL FIBER ROLLS PER CA BMP HANDBOOK FACT SHEET SE-5
4. INSTALL STABILIZED CONSTRUCTION ENTRANCE PER CA BMP HANDBOOK FACT SHEET TC-1 (ADJUST SIZE AS REQUIRED)
5. INSTALL TEMPORARY 6' HIGH CHAIN LINK CONSTRUCTION FENCE WITH SCREENING
6. INSTALL GRAVEL BAG BERM PER CA BMP HANDBOOK FACT SHEET SE-6
7. APPLY HYDROSEED SEED MIX FOR FLAT AREAS AS SHOWN ABOVE
8. APPLY HYDROSEED SEED MIX FOR SLOPE AREAS AS SHOWN ABOVE AND INSTALL GEOTEXTILE PER EC-7 TO ANCHOR SEEDING AND MULCHING
9. INSTALL SEDIMENT BASIN PER CA BMP HANDBOOK FACT SHEET SE-2
10. INSTALL SEDIMENT TRAP PER CA BMP HANDBOOK FACT SHEET SE-3

MAINTENANCE:

ALL REQUIRED LANDSCAPE AREAS SHALL BE MAINTAINED BY INC. LANDSCAPE AND IRRIGATION AREAS IN THE PUBLIC RIGHT-OF-WAY SHALL BE MAINTAINED INC. THE LANDSCAPE AREAS SHALL BE MAINTAINED FREE OF DEBRIS AND LITTER, AND ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION. DISEASED OR DEAD PLANT MATERIAL SHALL BE SATISFACTORILY TREATED OR REPLACED PER THE CONDITIONS OF THE PERMIT.

ROUGH GRADING EROSION CONTROL PLAN FOR:

GENE THEORY

(REDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 7 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454
V.T.M. N/A

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

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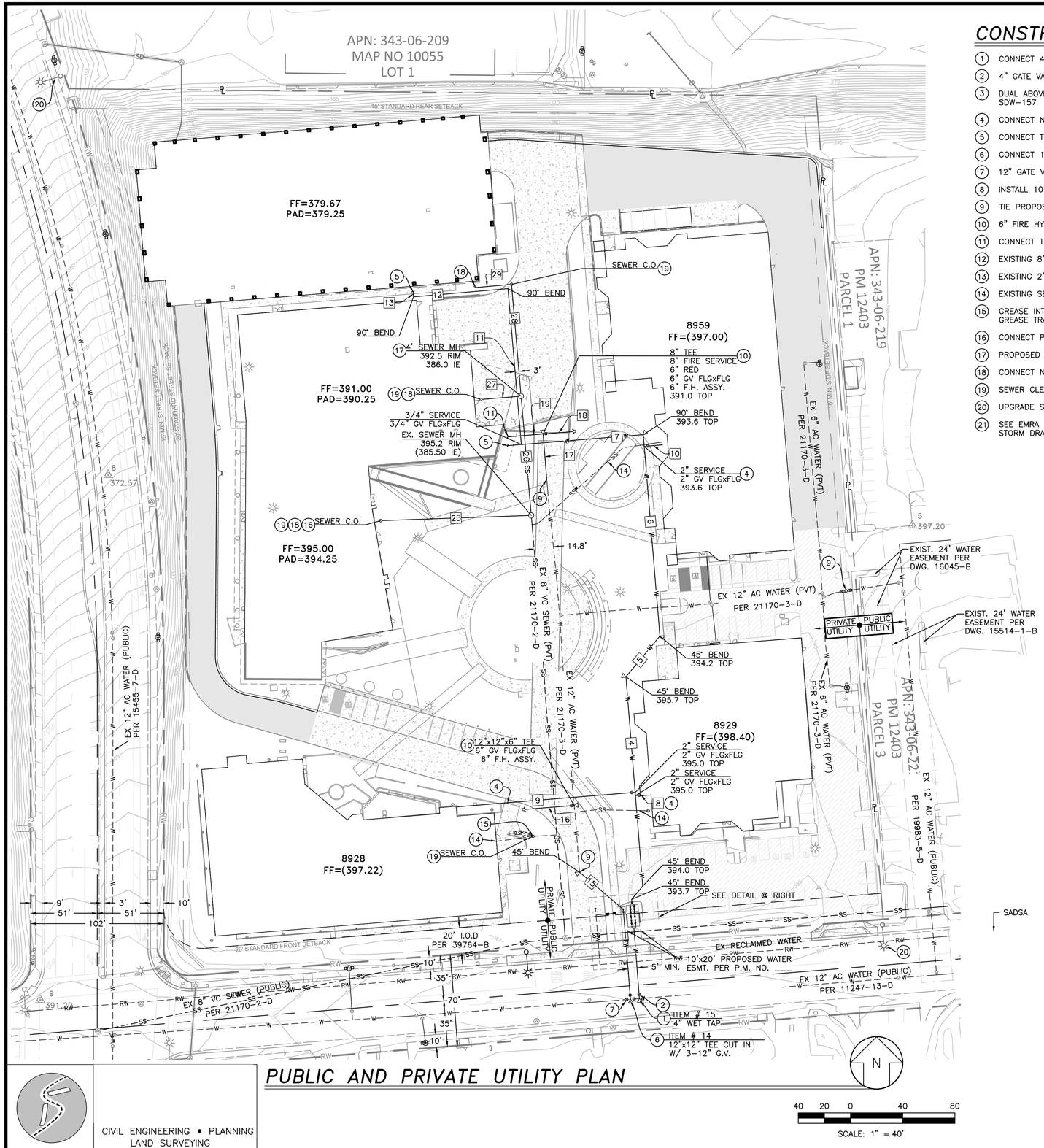
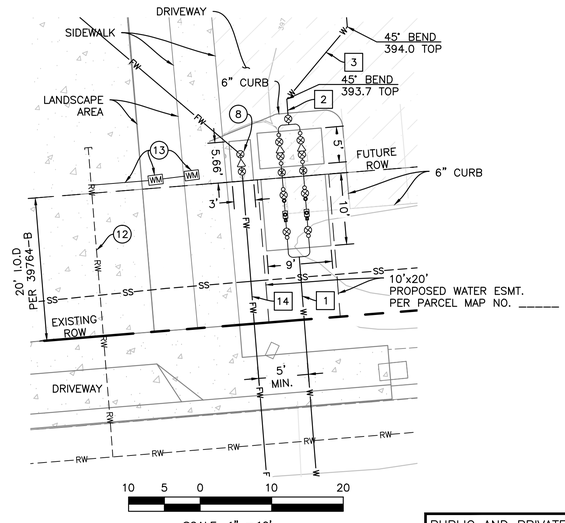


CONSTRUCTION NOTES

1. CONNECT 4" WATER TO EXIST. 12" MAIN PER SDW-118. ITEM#3, SEE SHEET 3
2. 4" GATE VALVE
3. DUAL ABOVE GROUND 3" WATER METER AND PRIVATE RPDA BACKFLOW DEVICE PER SDW-157
4. CONNECT NEW WATER SERVICE TO EXISTING WATER P.O.C.
5. CONNECT TO NEW WATER SERVICE, SEE MEP FOR P.O.C.
6. CONNECT 12" FIRE WATER TO EXIST. 12" MAIN PER SDW-118. ITEM#2, SEE SHEET 3
7. 12" GATE VALVE
8. INSTALL 10" PRIVATE COMPACT RPDA PER SDW-105
9. TIE PROPOSED FIRE WATER INTO EXISTING 12" WATER LINE
10. 6" FIRE HYDRANT ASSEMBLY PER SDW-104
11. CONNECT TO NEW FIRE SERVICE, SEE MEP FOR P.O.C.
12. EXISTING 8" PVC RECYCLED WATER MAIN TO REMAIN-PROTECT IN PLACE
13. EXISTING 2" RECLAIMED WATER SERVICE, METER & BACKFLOW PREVENTER TO REMAIN
14. EXISTING SEWER LATERAL TO REMAIN-PROTECT IN PLACE
15. GREASE INTERCEPTOR AND INSPECTION PORT. SEE MEP FOR CONFIGURATION OF GREASE TRAP SIZE, LOCATION AND AIR VENT RETURN
16. CONNECT PROPOSED SEWER LATERAL TO EXISTING SEWER MANHOLE
17. PROPOSED SEWER MANHOLE PER SDS-107
18. CONNECT NEW SEWER SERVICE, SEE MEP FOR P.O.C.
19. SEWER CLEANOUT PER SDS-103
20. UPGRADE STREET LIGHTS TO CITY STANDARD SDE-101
21. SEE EMRA APPROVAL #1942676 FOR PRIVATE SEWER LATERAL AND PRIVATE STORM DRAIN CONNECTION

WATER DATA			
#	BEARING	LENGTH	DESCRIPTION
1	S04°29'02.10"E	54.17	4" PVC WATER MAIN (C-900)
2	N04°14'56.70"W	3.55	4" (PRIVATE) PVC WATER MAIN (C-900)
3	N39°49'36.45"E	13.20	4" (PRIVATE) PVC WATER MAIN (C-900)
4	N04°34'43.54"W	160.86	4" (PRIVATE) PVC WATER MAIN (C-900)
5	N39°49'36.45"E	40.62	4" (PRIVATE) PVC WATER MAIN (C-900)
6	N04°42'52.86"W	154.84	4" (PRIVATE) PVC WATER MAIN (C-900)
7	S85°21'31.72"W	104.27	4" (PRIVATE) PVC WATER MAIN (C-900)
8	S85°21'02.12"W	5.00	2" (PRIVATE) PVC WATER LATERAL (SCH80)
9	N85°21'02.12"E	137.02	2" (PRIVATE) PVC WATER LATERAL (SCH80)
10	S85°17'07.14"W	14.08	2" (PRIVATE) PVC WATER LATERAL (SCH80)
11	S04°53'08.66"E	119.85	3/4" (PRIVATE) PVC WATER LATERAL (SCH80)
12	S85°03'02.98"W	72.62	3/4" (PRIVATE) PVC WATER LATERAL (SCH80)
13	S04°56'57.02"E	4.17	3/4" (PRIVATE) PVC WATER LATERAL (SCH80)
14	S04°36'14.04"E	66.70	12" PRIVATE) PVC FIRE MAIN (C-900)
15	N49°33'32.90"W	44.03	12" (PRIVATE) PVC FIRE MAIN (C-900)
16	S85°21'02.12"W	38.81	6" (PRIVATE) PVC FIRE LATERAL (C-900)
17	N04°38'28.28"W	34.97	8" (PRIVATE) PVC FIRE MAIN (C-900)
18	S85°21'31.72"W	24.10	6" (PRIVATE) PVC FIRE LATERAL (C-900)
19	N85°21'31.72"E	27.16	8" (PRIVATE) PVC FIRE LATERAL (C-900)

PRIVATE SEWER DATA			
#	BEARING	LENGTH	DESCRIPTION
25	S88°02'22.62"W	115.47	6" (PRIVATE) PVC SEWER LATERAL (SD-35)
26	N04°53'08.66"W	91.69	8" (PRIVATE) PVC SEWER MAIN (SD-35)
27	N85°19'12.00"E	31.23	6" (PRIVATE) PVC SEWER LATERAL (SD-35)
28	S04°53'08.66"E	85.94	2" (PRIVATE) PVC SEWER LATERAL (SD-35)
29	S85°03'02.98"W	28.11	4" (PRIVATE) PVC SEWER LATERAL (SD-35)



WATER METER/RPDA DETAIL

PUBLIC AND PRIVATE UTILITY PLAN

PUBLIC AND PRIVATE UTILITY PLAN FOR:

GENE THEORY

(REDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 8 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454
V.T.M. N/A

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

1902-6279
CCS '83 COORDINATES
262-1719
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

40031-08-D

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. WOLFE
NO. 44271
CIVIL
STATE OF CALIFORNIA

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

U:\1DATA_PROJECTS\5737 DELAWIE-BIOLEGEND\CAD FILES\5737-BIO-08.DWG

FOR REFERENCE ONLY



STREET LIGHT NOTES

1. PLEASE REFER TO THE FOLLOWING STREET LIGHT LUMINAIRE AND POLE APPLICATION CODES TO DETERMINE THE APPROPRIATE TYPE LUMINAIRE ITEM NUMBERS FOR MID-BLOCK LOCATION AND NON-SIGNALIZED INTERSECTIONS.

   LUMINAIRE APPLICATION CODES:
   - STREET TYPE CODE: X ALLEY; Y STREET WIDTH UP TO 40'; Z STREET WIDTH OVER 40'
   - LOCATION CODES: I INTERSECTION & CUL-DE-SAC; M MID-BLOCK
   - COLOR CODES: 3 3000K CCT; 4 4000K CCT

   POLE APPLICATION CODES:
   - POLE TYPE: DIRECT BURIAL (DB) TYPE 15; CONCRETE POLE WITH COBRA HEAD; STEEL POLE WITH COBRA HEAD

2. SEE THE REDWOOD CITY LIGHTING AND CONTROLS APPROVED MATERIALS LIST (https://www.sandiego.gov/publicworks/edocref)

3. THE FOLLOWING CRITERIA SHALL DETERMINE THE STREET LIGHT LUMINAIRE TYPE:
   a. ALL STREET LIGHT LUMINAIRES SHALL BE LED AND FULLY SHIELDED.
   b. ALL STREET LIGHTING SHALL BE BROAD SPECTRUM LIGHT SOURCES NO GREATER THAN 4000K CORRELATED COLOR TEMPERATURE (CCT) EXCEPT FOR AREAS WITHIN 35-MILE RADIUS OF MT. PALOMAR OBSERVATORY, WHICH ARE DESIGNATED FOR A MAXIMUM OF 3000K CCT PER COUNCIL RESOLUTION 306251.
   c. ALL LIGHTING AT NON-SIGNALIZED INTERSECTIONS, SHALL BE LUMINAIRE TYPE YI OR ZI AND IMPLEMENTED IN ACCORDANCE WITH THE CITY OF REDWOOD CITY STREET DESIGN MANUAL LIGHTING UPDATE 2016, TABLE L-1. (https://www.sandiego.gov/planning/programs/transportation/library/stdesign)
   d. STREET LIGHT STANDARDS SHALL CONFORM TO REDWOOD CITY OF SAN DIEGO STANDARDS DRAWING, SDE-101.

4. MID-BLOCK STREET LIGHTING SHALL BE SPACED IN ACCORDANCE WITH REDWOOD CITY STREET DESIGN MANUAL LIGHTING UPDATE 2016.

5. NATIONAL ELECTRICAL CODE WIRE COLOR CODING SHALL BE USED FOR ALL ELECTRICAL WORK.

6. THE IMPROVEMENT PLANS SHALL SHOW ALL OF THE EXISTING AND PROPOSED STREET LIGHTS, PULL BOXES AND SERVICE POINTS IN THE VICINITY OF THE PROJECT AREA.

7. ALL NEW STREET LIGHTS SHALL HAVE A PULL BOX LOCATED NEXT TO THE POLE.

8. CONTRACTOR INSTALLING THE STREET LIGHTING DISTRIBUTION SYSTEM SHALL NOTIFY THE CITY FIELD ENGINEER, AT (858) 627-3200 A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO STARTING OF WORK. ALSO, A PRE-CONSTRUCTION MEETING WILL BE REQUIRED WITH THE CITY ELECTRICAL INSPECTOR (RE) TO GO OVER THE LIGHTING REQUIREMENTS.

STREET LIGHT NOTES (CONT'D)

9. CITY ELECTRICAL INSPECTOR (RE) SHALL VERIFY ALL STREET LIGHTS ARE WORKING BEFORE SIGNING THE PERMIT OFF.

10. STREET LIGHT SCHEDULE

STREET LIGHT #	STREET NAME	LOCATION REFERENCE‡		CORNER/ STREET SIDE	TYPE OF WORK‡ LUMINAIRE ITEM #	POLE TYPE/ ITEM #
1		E/C	±350'	N	(R)(U) ZM4	15
2		N/O	±700'	E	(U) ZM4	15
3	CARROLL ROAD	E/O	625'	N	(U) ZM4	15

‡ LOCATION REFERENCE FOR MID-BLOCK STREET LIGHTS: APPROXIMATE DISTANCE FROM CENTERLINE OF NEAREST CROSS STREET.
‡ TYPE OF WORK: NEW (N), UPGRADE (U), AND RELOCATE (R).

11. SUPPLEMENTAL AND SPECIAL ORNAMENTAL STREET LIGHTING SHALL BE INCLUDED IN A SPECIAL STREET LIGHTING ASSESSMENT DISTRICT OR MAINTENANCE ASSESSMENT DISTRICT AND SHALL BE DESIGNATED WITH AN ASTERISK NEXT TO THE STREET LIGHT NUMBER. THE DEVELOPER/APPLICANT WILL BE ASSESSED THE COST OF THE STREET LIGHTS FOR THE PERIOD FROM THE DATE THE LIGHTS ARE ENERGIZED TO THE DATE THE ASSESSMENT DISTRICT IS FORMED. THE FEE MUST BE PAID PRIOR TO THE ENERGIZING OF THE STREET LIGHTS. THE DEVELOPER/APPLICANT SHALL CONTACT PAUL SIROIS, PARK & RECREATION MAINTENANCE ASSESSMENT DISTRICT, AT (858) 685-1307 TO DETERMINE THE TOTAL FEE.

12. ALL PRIVATE STREET LIGHTS SHALL HAVE A SEPARATE SERVICE POINT AND SHALL NOT BE CONNECTED TO CITY CIRCUITS.

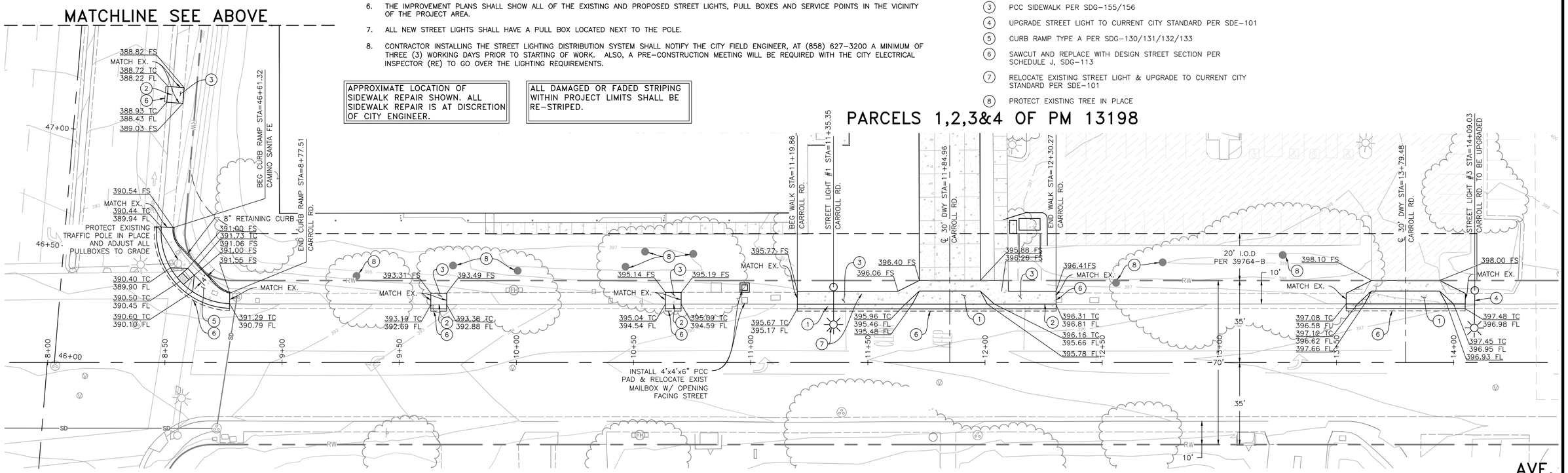
13. ANY PRIVATE STREET LIGHTS SHOWN ON THESE PLANS ARE FOR INFORMATION ONLY. PROPOSED PRIVATE STREET LIGHTS SHALL BE PERMITTED AND INSPECTED UNDER A SEPERATE ELECTRICAL PERMIT.

CONSTRUCTION NOTES

1. COMMERCIAL DRIVEWAY PER SDG-163
2. 6" CURB & GUTTER PER SDG-151/156
3. PCC SIDEWALK PER SDG-155/156
4. UPGRADE STREET LIGHT TO CURRENT CITY STANDARD PER SDE-101
5. CURB RAMP TYPE A PER SDG-130/131/132/133
6. SAWCUT AND REPLACE WITH DESIGN STREET SECTION PER SCHEDULE J, SDG-113
7. RELOCATE EXISTING STREET LIGHT & UPGRADE TO CURRENT CITY STANDARD PER SDE-101
8. PROTECT EXISTING TREE IN PLACE

APPROXIMATE LOCATION OF SIDEWALK REPAIR SHOWN. ALL SIDEWALK REPAIR IS AT DISCRETION OF CITY ENGINEER.

ALL DAMAGED OR FADED STRIPING WITHIN PROJECT LIMITS SHALL BE RE-STRIPED.



PUBLIC IMPROVEMENT PLAN

*SEE SHEET 8 FOR PUBLIC/PRIVATE UTILITIES

N

20 10 0 20 40

SCALE: 1" = 20'

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

PUBLIC IMPROVEMENT PLAN FOR:
GENE THEORY

CITY OF REDWOOD CITY, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 9 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454
V.T.M. N/A

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
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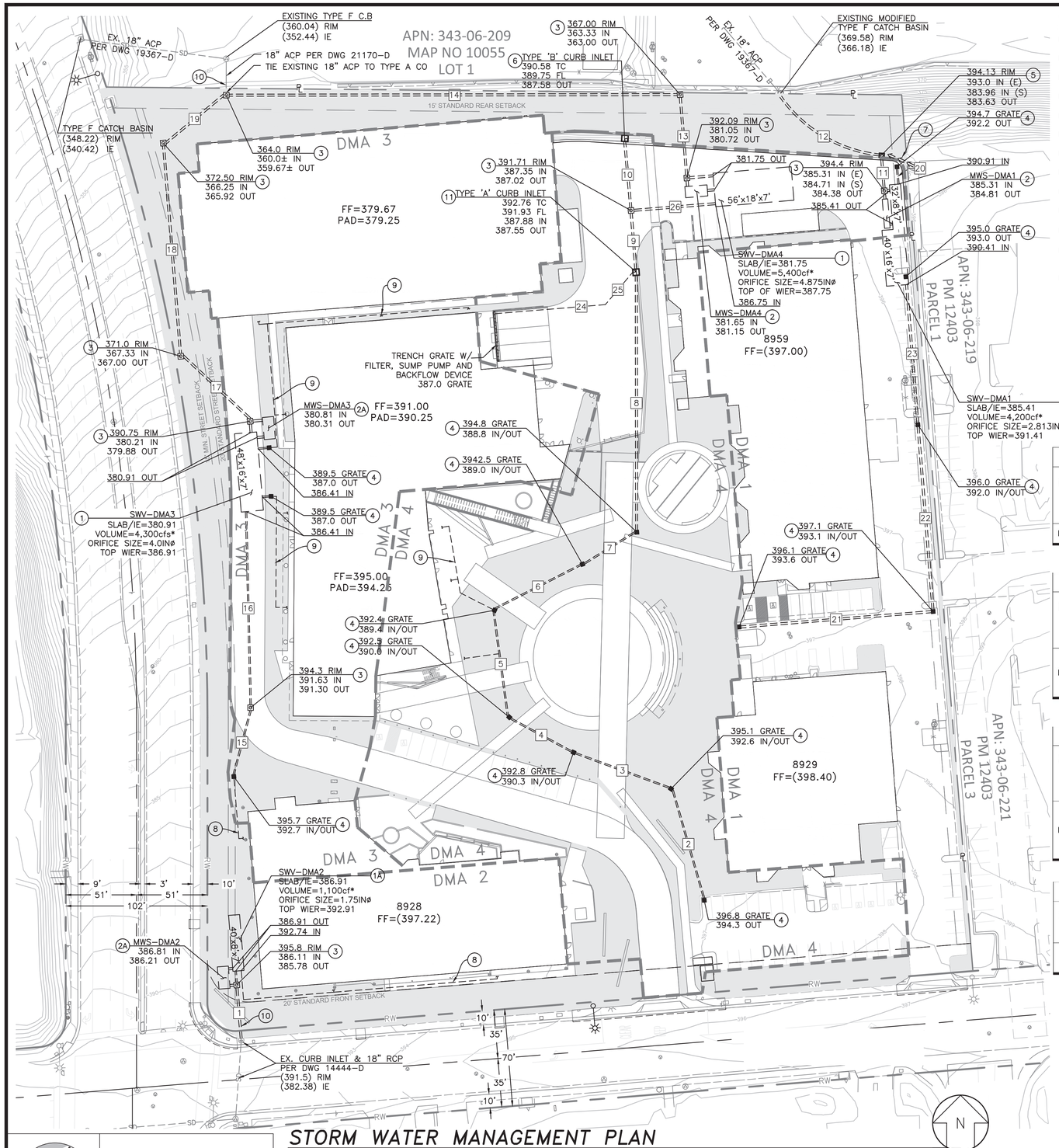
40031-09-D

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

FOR REFERENCE ONLY



STORM WATER MANAGEMENT PLAN

CONSTRUCTION NOTES

1. STORM WATER VAULT WITH DRIVABLE LID (H20) SEE SHEET XX
1A. STORM WATER VAULT SEE SHEET XX
2. MODULAR WETLAND WITH DRIVABLE LID (H20) SEE SHEET XX
2A. MODULAR WETLAND SEE SHEET XX
3. STORM DRAIN CLEAN OUT TYPE A PER SDRSD D-9/SDD-114
4. BROOKS 2424 CATCH BASIN
5. TYPE F CATCH BASIN PER SDD-119/SDD-114
6. TYPE B CATCH BASIN PER SDD-116
7. TYPE A BROW DITCH PER SDD-106, TIE EXISTING DITCH INTO TYPE 'F' CATCH BASIN
8. 8" PVC ROOF DRAIN COLLECTOR SLOPE 2% MIN TO DRAIN, SEE MEP FOR CONTINUATION
9. 6" PVC ROOF DRAIN COLLECTOR SLOPE 2% MIN TO DRAIN, SEE MEP FOR CONTINUATION
10. SEE EMRA APPROVAL #1942676 FOR PRIVATE SEWER LATERAL AND PRIVATE STORM DRAIN CONNECTION
11. TYPE A CATCH BASIN PER SDD-115

BMP1 SUBAREA RUNOFF FACTOR CHART

DMA	AREA ID	DISPERSION TO	PROPOSED CONDITION COVER TYPE	AREA (ACRES)	Cx RUNOFF FACTOR (TABLE B.1-1)	AREA X RUNOFF FACTOR
DMA1	R1	N/A	ROOF	0.382	0.9	0.344
	R2	N/A	ROOF	0.541	0.9	0.487
	IP1	N/A	IMPERV PAVING	0.704	0.9	0.633
	LS1	N/A	LANDSCAPE	0.024	0.1	0.002
	LS2	N/A	LANDSCAPE	0.038	0.1	0.004
			TOTAL:	1.688		1.470

DMA2 SUBAREA RUNOFF FACTOR CHART

DMA	AREA ID	DISPERSION TO	PROPOSED CONDITION COVER TYPE	AREA (ACRES)	Cx RUNOFF FACTOR (TABLE B.1-1)	AREA X RUNOFF FACTOR
DMA2	R2	N/A	ROOF	0.434	0.9	0.390
	IP2	N/A	IMPERV PAVING	0.019	0.9	0.017
			TOTAL:	0.452		0.407

DMA3 SUBAREA RUNOFF FACTOR CHART

DMA	AREA ID	DISPERSION TO	PROPOSED CONDITION COVER TYPE	AREA (ACRES)	Cx RUNOFF FACTOR (TABLE B.1-1)	AREA X RUNOFF FACTOR
DMA3	R4	N/A	ROOF	0.110	0.9	0.099
	R5	N/A	ROOF	0.673	0.9	0.606
	R6	N/A	ROOF	0.765	0.9	0.689
	IP3	N/A	IMPERV PAVING	0.425	0.9	0.382
	LS3	N/A	LANDSCAPE	0.048	0.1	0.005
			TOTAL:	2.021		1.781

DMA4 SUBAREA RUNOFF FACTOR CHART

DMA	AREA ID	DISPERSION TO	PROPOSED CONDITION COVER TYPE	AREA (ACRES)	Cx RUNOFF FACTOR (TABLE B.1-1)	AREA X RUNOFF FACTOR
DMA4	R7	N/A	ROOF	0.084	0.9	0.076
	LS4	N/A	LANDSCAPE	0.127	0.1	0.013
	LS5	N/A	LANDSCAPE	0.045	0.1	0.005
	LS6	N/A	LANDSCAPE	0.511	0.1	0.051
	IP4	N/A	IMPERV PAVING	2.042	0.9	1.838
	GR1	N/A	GREEN ROOF	0.125	0.1	0.013
			TOTAL:	2.935		1.995

AREAS NOT PART OF THE DCV CALCULATIONS

DMA	AREA ID	PROPOSED CONDITION COVER TYPE	AREA (ACRES)	REASON EXCLUDED FROM DCV CALCULATIONS
N/A	ST1	LANDSCAPE	0.012	SELF-TREATING AREA DRAINING OFF-SITE
	ST2	LANDSCAPE	0.029	SELF-TREATING AREA DRAINING OFF-SITE
	DMS	IMPERV PAVING	0.126	DEMINIMUS DRAINING TO R/W
			0.168	

LEGEND

- PERMEABLE LANDSCAPING AREAS (ALL OTHER AREAS CONSIDERED IMPERMEABLE)
- MWS-DMA1 MODULAR WETLAND SYSTEM-EAST MODEL L-4-19-V
- MWS-DMA2 MODULAR WETLAND SYSTEM-SOUTH MODEL L-4-6-V
- MWS-DMA3 MODULAR WETLAND SYSTEM-WEST MODEL L-4-17-V
- MWS-DMA4 MODULAR WETLAND SYTEM-CENTER MODEL L-8-12-V
- SWV-DMA1 STORM WATER VAULT-EAST
- SWV-DMA2 STORM WATER VAULT-SOUTH
- SWV-DMA3 STORM WATER VAULT-WEST
- SWV-DMA4 STORM WATER VAULT-CENTER

*VOLUME SHOWN REFLECTS AMOUNT REQUIRED FOR HMP AND DOES NOT INCLUDE 1' OF FREEBOARD WITHIN STORM WATER VAULT

PRIVATE STORM DRAIN

NUMBER	LENGTH	DIRECTION/DELTA	RADIUS	PIPE DESC./SLOPE
1	36.50'	S04°41'38.42"E		12" HDPE STORM DRAIN @ 9.3%
2	81.22'	N16°09'25.40"W		12" HDPE STORM DRAIN @ 2.1%
3	72.13'	N69°49'42.61"W		12" HDPE STORM DRAIN @ 3.2%
4	49.99'	N61°35'46.98"W		12" HDPE STORM DRAIN @ 0.6%
5	75.44'	S07°43'42.53"E		12" HDPE STORM DRAIN @ 0.8%
6	68.91'	S62°56'04.57"W		12" HDPE STORM DRAIN @ 0.6%
7	42.74'	N58°16'05.19"E		12" HDPE STORM DRAIN @ 0.5%
8	183.21'	N00°04'27.68"W		18" HDPE STORM DRAIN @ 0.5%
9	40.06'	S04°38'17.32"E		18" HDPE STORM DRAIN @ 0.5%
10	47.64'	S05°17'12.89"E		18" HDPE STORM DRAIN @ 0.5%
11	21.77'	S04°45'54.45"E		18" HDPE STORM DRAIN @ 1.9%
12	84.73'	S59°23'21.99"E	100.00	18" RCP STORM DRAIN @ 20.6%
13	56.17'	S04°40'48.80"E		18" RCP STORM DRAIN @ 31.0%
14	324.73'	N89°55'37.50"E		18" RCP STORM DRAIN @ 0.9%
15	47.75'	S14°48'50.62"W		12" HDPE STORM DRAIN @ 2.2%
16	139.15'	N01°20'31.36"W		12" HDPE STORM DRAIN @ 3.5%
17	65.62'	S46°44'55.06"E		18" RCP STORM DRAIN @ 19.1%
18	150.00'	S04°40'48.00"E		18" RCP STORM DRAIN @ 0.5%
19	53.74'	S50°20'12.61"W		18" RCP STORM DRAIN @ 11.0%
20	11.13'	S04°47'52.33"E		12" HDPE STORM DRAIN @ 11.6%
21	137.37'	N85°24'39.26"E		12" HDPE STORM DRAIN @ 0.4%
22	132.08'	N04°38'20.44"W		18" HDPE STORM DRAIN @ 0.8%
23	99.75'	N04°38'20.44"W		18" HDPE STORM DRAIN @ 1.6%
24	79.55'	S85°18'41.60"W		2" FORCE MAIN
25	30.32'	S40°19'12.00"W		2" FORCE MAIN
26	59.02'	S85°21'40.38"W		18" HDPE STORM DRAIN @ 0.5%

SELECTED BMP SUMMARY TABLE

BMP ID	GRADIN PLAN DESIGNATIONS	DESIGN BMP TYPES	DMA DCV	AREA DRAINING TO DMA/BMP (FT²)	SWMM STORAGE VOLUME (FT³) ¹	MODULAR WETLANDS COMPACT BIOFILTRATION UNIT AND BIOFILTRATION AREA (FT²)
DMA1-BMP1	MWS-DMA1 SWV-DMA1	CISTERN WITH COMPACT BIOFILTRATION	2,828	73,545	4,200	MWS-L-4-19-V-UG-HC 103.36 FT²
DMA2-BMP2	MWS-DMA2 SWV-DMA2	CISTERN WITH COMPACT BIOFILTRATION	783	19,708	1,100	MWS-L-4-6-V-UG 31.96 FT²
DMA3-BMP3	MWS-DMA3 SWV-DMA2	CISTERN WITH COMPACT BIOFILTRATION	3,426	88,049	4,300	MWS-L-4-19-V-UG-HC103.36 FT²
DMA4-BMP4	MWS-DMA3 SWV-DMA2	CISTERN WITH COMPACT BIOFILTRATION	3,837	127,846	5,400	MWS-L-8-12-V-UG 150.96 FT²
		TOTALS:	10,874	309,148	15,000	

NOTE 1: SWMM STORAGE VOLUMES FOR THE CISTERN TANKS ARE SIZED PER THE SITE SPECIFIC SWMM ANALYSIS PROVIDED IN ATTACHMENT 2.

FULL SITE DCV SUMMARY

DMA	RUNOFF FACTOR C	85TH % DEPTH (INCH)	AREA (ACRES)	DCV (FT³)
DMA1	0.871	0.53	1.688	2,828
DMA2	0.900		0.452	783
DMA3	0.881		2.021	3,426
DMA4	0.680		2.935	3,837
		TOTALS:	7.096	10,874

NOTE:
ALL HARDSCAPE IMPROVEMENTS SHOWN FOR REFERENCE ONLY.
THIS PLAN SHEET IS INTENDED FOR DIRECT REFERENCE TO THE PROJECT SWQMP FOR APPROVAL OF STORM WATER BMP'S.
PRECISE GRADING PLANS WITH LANDSCAPE PLANS TO BE APPROVED PER SEPARATE PERMITS.

40 20 0 40 80
SCALE: 1" = 40'

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

STORM WATER MANAGEMENT PLAN FOR:
GENE THEORY

(REDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 10 OF 14 SHEETS

I.O. NO. 11003681
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V.T.M. N/A

FOR CITY ENGINEER ____ DATE ____

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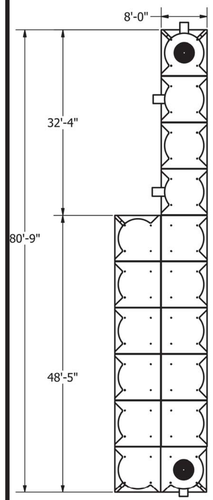
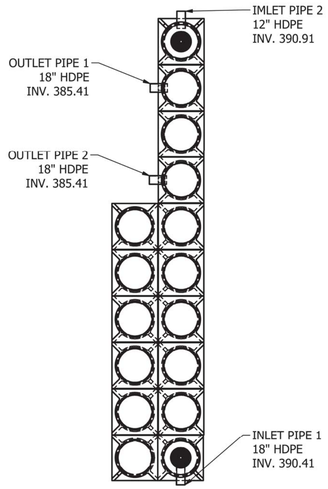
40031-10-D

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

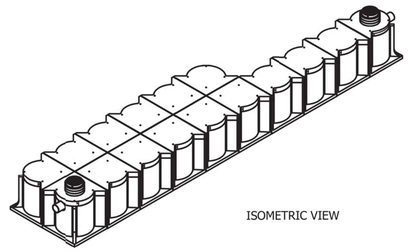
FOR REFERENCE ONLY



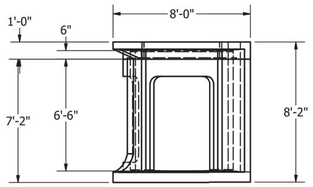
PLAIN VIEW



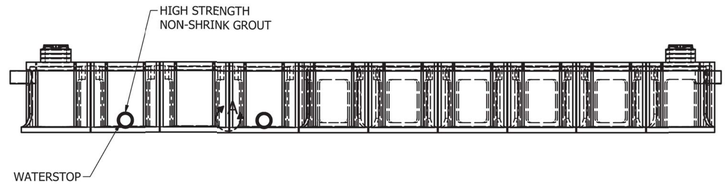
INSIDE VIEW



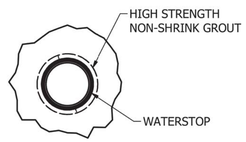
ISOMETRIC VIEW



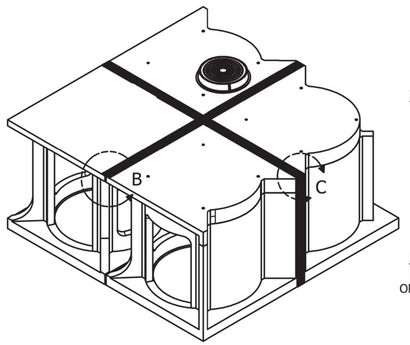
SIDE UNIT



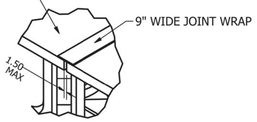
PIPE CONNECTION DETAIL



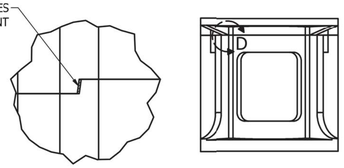
DETAIL A
PIPE NOT SHOWN



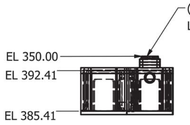
EXTERIOR WRAP DETAIL



DETAIL B



DETAIL D



END VIEW

PIPE PLACEMENT TO BE VERIFIED PRIOR TO MANUFACTURING

Water Storage Capacity	
Storage Capacity	Units
SP360 Storage Capacity	5266 cf
6' Storage Capacity	4476 cf

UNIT INFORMATION		
PART NUMBER	QTY	APPROX. WEIGHT
SP360-CORNER-T-.5 FT	3	4,600 LBS
SP360-CORNER-B-6.5 FT	3	15,000 LBS
SP360-SIDE-T-.5 FT	11	5,050 LBS
SP360-SIDE-B-6 FT	11	14,000 LBS
SP360-BC CORNER-T-.5 FT	1	4,100 LBS
SP360-CORNER-B-6.5 FT	1	16,200 LBS
SP360-BC SIDE-T-.5 FT	3	4,800 LBS
SP360-BC SIDE-B-6.5 FT	3	16,200 LBS

MATERIALS
Materials used in this work shall conform to ACI (American Concrete Institute)

CONCRETE
28 Day Compressive 5000 psi (Minimum)
Self-Consolidating per ACI 237R-07
ASTM C1611/C1611M-14 Standard Test Method for Slump Flow
Lifting Strength 2000 psi (Minimum)

REINFORCING STEEL
Reinforcing Bars shall conform to: ASTM A615, Grade 60
Reinforcing Mesh shall conform to: ASTM A1064, Grade 70
Reinforcing Cover: 1.5" minimum

DESIGN

Designed in accordance with the AASHTO Standard Specifications, 7th Edition for HS-20 Live Load.

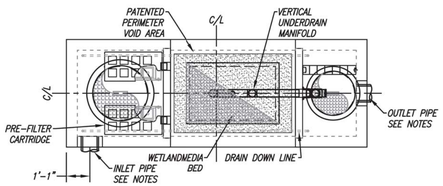
SITE SPECIFIC DATA			
PROJECT NUMBER		4908	
PROJECT NAME		GENE THEORY	
PROJECT LOCATION		RE A	
STRUCTURE ID		DMA 1	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
4200			
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			OFFLINE
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	385.31	PVC	8"
INLET PIPE 2	N/A	N/A	N/A
OUTLET PIPE	384.81	PVC	8"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	394.40±	394.40±	394.40±
SURFACE LOAD	H20 IN-DIRECT	H20 IN-DIRECT	H20 IN-DIRECT
FRAME & COVER	ø30"	30"X48"	ø24"
WETLANDMEDIA VOLUME (CY)			TBD
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			TBD
NOTES: UPSTREAM BYPASS ELEVATION = 391.41'. EOR TO DETERMINE PIPE SIZE.			

INSTALLATION NOTES

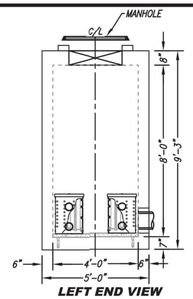
1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.
7. CONTRACTOR RESPONSIBLE FOR CONTACTING MODULAR WETLANDS FOR ACTIVATION OF UNIT. MANUFACTURES WARRANTY IS VOID WITH OUT PROPER ACTIVATION BY A MODULAR WETLANDS REPRESENTATIVE.

GENERAL NOTES

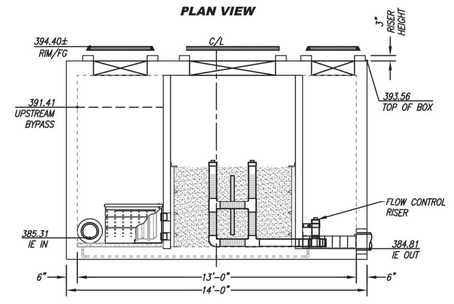
1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.



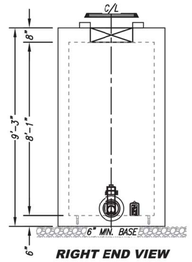
PLAN VIEW



LEFT END VIEW



ELEVATION VIEW

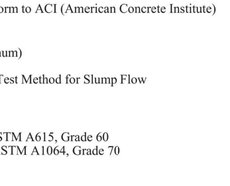


RIGHT END VIEW

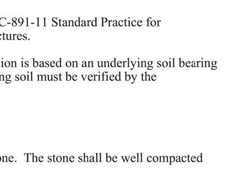
AVAILABLE TREATMENT VOLUME (CF)	4476
DRAINDOWN DURATION (HOURS)	34
AVERAGE DISCHARGE RATE PER MWS UNIT(GPM)	16.27
OPERATING HEAD (FT)	3.4
WETLANDMEDIA INFILTRATION RATE (IN/HR)	26
WETLANDMEDIA LOADING RATE (GPM/SF)	OR 0.26

Bio Clean
A Forterra Company

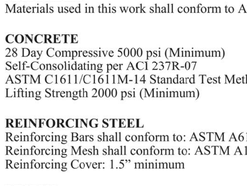
MWS-L-4-13-V-UG
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL



DETAIL D



DETAIL C



DETAIL E

JOINT DETAIL

INSTALLATION SPECIFICATIONS

Storm Prism shall be installed in accordance with ASTM C-891-11 Standard Practice for Installation of Underground Precast Concrete Utility Structures.

The aggregate foundation minimum thickness per calculation is based on an underlying soil bearing pressure of 2000psi. The bearing pressure of the underlying soil must be verified by the geotechnical engineer prior to placing aggregate sub base.

The aggregate base material shall consist of ¾"angular stone. The stone shall be well compacted and seated using a vibratory roller.

The aggregate shall be graded to a tolerance of ¼" of the plan elevation.

The aggregate shall extend beyond the Storm Prism perimeter by at least 18".

The Storm Prism modules shall be placed on line and grade per the site plans. Space between modules shall be 1/2" plus / minus 1/2"

Storm Prism modules are designed to be soil tight. All exterior joints between adjacent modules shall be sealed using a preformed, cold applied, self-adhering, polymer wrap conforming to: ASTM E-1745, C-877, C-990 Specifications, and AASHTO M198 Type B.

Wrap shall be applied per manufacture's recommendations.

BACKFILL

Fill placed around the Storm Prism Modules shall be placed evenly around the entire system in 6" lifts.

Backfill shall be mechanically compacted (no jetting).

Special care should be taken when compacting adjacent to or near the tape seal not to disrupt the seal.

Perimeter backfill shall be done in accordance with ASTM C1675. Native material can be used if the material meets the standard as required in section 10.2 and 11.

Fill placement over top of Storm Prism shall be done in accordance with ASTM C1675. Fill placement shall be done in 6" lifts. Fill material not to exceed 120 PCF. At no time shall machinery or vehicles exceeding HS-20 travel over the Storm Prism.

MATERIALS
Materials used in this work shall conform to ACI (American Concrete Institute)

CONCRETE
28 Day Compressive 5000 psi (Minimum)
Self-Consolidating per ACI 237R-07
ASTM C1611/C1611M-14 Standard Test Method for Slump Flow
Lifting Strength 2000 psi (Minimum)

REINFORCING STEEL
Reinforcing Bars shall conform to: ASTM A615, Grade 60
Reinforcing Mesh shall conform to: ASTM A1064, Grade 70
Reinforcing Cover: 1.5" minimum

DESIGN

Designed in accordance with the AASHTO Standard Specifications, 17th Edition for HS-20 Live Load.

FABRICATION

Fabrication shall meet the requirements of the following:

Fabrication Tolerances
1. Width: +1/4", -1/4"
2. Length: +1/4", -1/4"
3. Height: +1/4", -1/4"
4. Deviation from square: 1/4"
5. Member Thickness: +1/4", -1/4"

SHIPING AND HANDLING

The Precast Supplier and Contractor shall verify that the method of lifting does not overstress the precast concrete pieces in any way.

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

STORM DRAIN DETAILS FOR:
GENE THEORY

CIREDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 11 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454
V.T.M. N/A

FOR CITY ENGINEER ____ DATE ____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

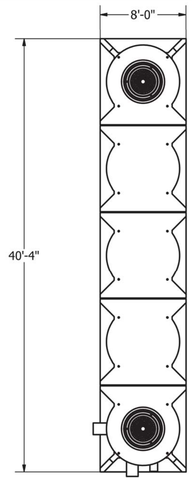
1902-6279
CCS '83 COORDINATES
262-1719
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

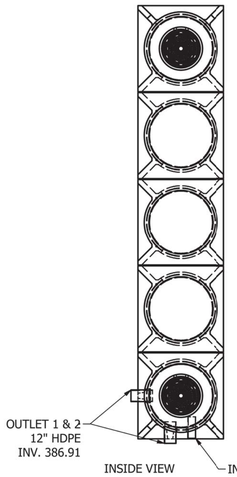
40031-11-D

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

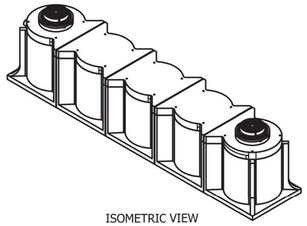
FOR REFERENCE ONLY



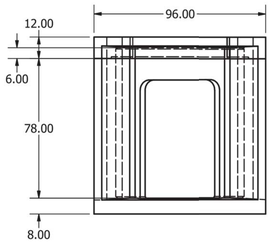
PLAIN VIEW



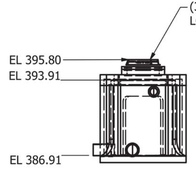
INSIDE VIEW



ISOMETRIC VIEW



SIDE UNIT



END VIEW

Water Storage Capacity	
Storage Capacity	Units
SP360 Storage Capacity	1,397 cf
6' Storage Capacity	1,134 cf

UNIT INFORMATION		
PART NUMBER	QTY	APPROX. WEIGHT
SP360-CORNER-T-.5 FT	2	4,100 LBS
SP360-CORNER-B-6.5 FT	2	16,200 LBS
SP360-SIDE-T-.5 FT	3	4,800 LBS
SP360-SIDE-B-6 FT	3	16,200 LBS

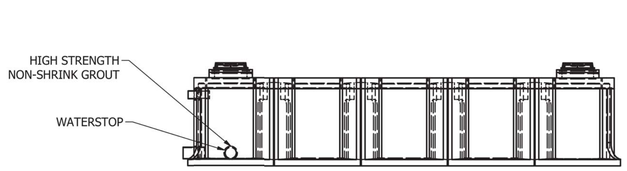
MATERIALS
Materials used in this work shall conform to ACI (American Concrete Institute)

CONCRETE
28 Day Compressive 5000 psi (Minimum)
Self-Consolidating per ACI 237R-07
ASTM C1611/C1611M-14 Standard Test Method for Slump Flow
Lifting Strength 2000 psi (Minimum)

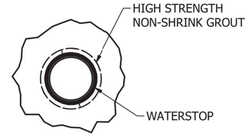
REINFORCING STEEL
Reinforcing Bars shall conform to: ASTM A615, Grade 60
Reinforcing Mesh shall conform to: ASTM A1064, Grade 70
Reinforcing Cover: 1.5" minimum

DESIGN

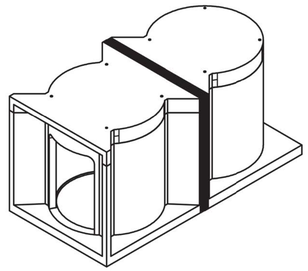
Designed in accordance with the AASHTO Standard Specifications, 7th Edition for HS-20 Live Load.



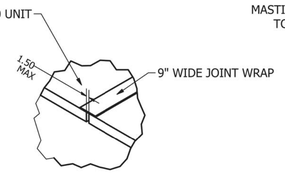
PIPE CONNECTION DETAIL



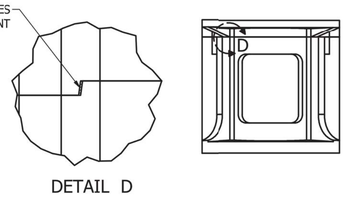
DETAIL A
PIPE NOT SHOWN



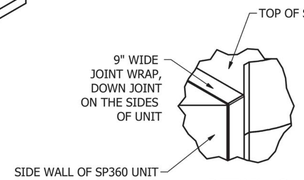
EXTERIOR WRAP DETAIL



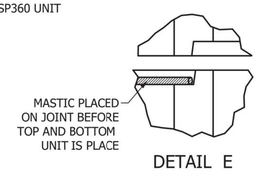
DETAIL B



DETAIL D

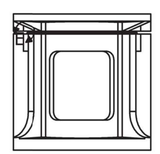


DETAIL C



DETAIL E

JOINT DETAIL



SITE SPECIFIC DATA			
PROJECT NUMBER		4908	
PROJECT NAME		GENE THEORY	
PROJECT LOCATION		4	
STRUCTURE ID		DMA 2	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
1100			
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	386.81	PVC	8"
INLET PIPE 2	N/A	N/A	N/A
OUTLET PIPE	386.21	PVC	8"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	395.80	395.80	395.80
SURFACE LOAD	PARKWAY	PARKWAY	PARKWAY
FRAME & COVER	ø30"	30"X48"	N/A
WETLANDMEDIA VOLUME (CY)			TBD
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			TBD
NOTES: UPSTREAM BYPASS ELEVATION = 392.91'. EOR TO DETERMINE PIPE SIZE.			

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
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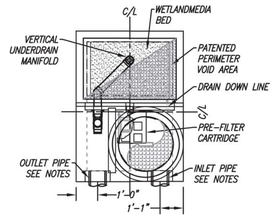
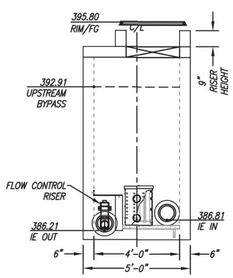
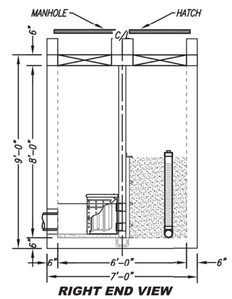


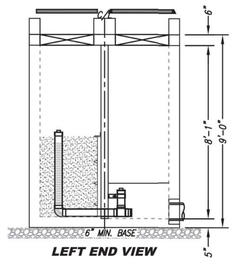
PLAN VIEW



ELEVATION VIEW



RIGHT END VIEW



LEFT END VIEW

AVAILABLE TREATMENT VOLUME (CF)	1134
DRAINDOWN DURATION (HOURS)	17
AVERAGE DISCHARGE RATE PER MWS UNIT(GPM)	8.31
OPERATING HEAD (FT)	3.4
WETLANDMEDIA INFILTRATION RATE (IN/HR)	26
WETLANDMEDIA LOADING RATE (GPM/SF)	0.26

Bio Clean
A Forterra Company

MWS-L-4-6-V-UG
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

INSTALLATION SPECIFICATIONS

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The aggregate shall be graded to a tolerance of ¼" of the plan elevation.

The aggregate shall extend beyond the Storm Prism perimeter by at least 18".

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Wrap shall be applied per manufacture's recommendations.

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Backfill shall be mechanically compacted (no jetting).

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Fill placement over top of Storm Prism shall be done in accordance with ASTM C1675. Fill placement shall be done in 6" lifts. Fill material not to exceed 120 PCF. At no time shall machinery or vehicles exceeding HS-20 travel over the Storm Prism.

MATERIALS
Materials used in this work shall conform to ACI (American Concrete Institute)

CONCRETE
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Self-Consolidating per ACI 237R-07
ASTM C1611/C1611M-14 Standard Test Method for Slump Flow
Lifting Strength 2000 psi (Minimum)

REINFORCING STEEL
Reinforcing Bars shall conform to: ASTM A615, Grade 60
Reinforcing Mesh shall conform to: ASTM A1064, Grade 70
Reinforcing Cover: 1.5" minimum

DESIGN

Designed in accordance with the AASHTO Standard Specifications, 17th Edition for HS-20 Live Load.

FABRICATION

Fabrication shall meet the requirements of the following:

Fabrication Tolerances
1. Width: +1/4", -1/4"
2. Length: +1/4", -1/4"
3. Height: +1/4", -1/4"
4. Deviation from square: 1/4"
5. Member Thickness: +1/4", -1/4"

SHIPING AND HANDLING

The Precast Supplier and Contractor shall verify that the method of lifting does not overstress the precast concrete pieces in any way.

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. WOLFE
NO. 44271
CIVIL
STATE OF CALIFORNIA

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

STORM DRAIN DETAILS FOR:
GENE THEORY
PARCELS 1, 2, 3, & 4 OF PM 13198

CIREDWOOD CITY, CALIFORNIA
DEVELOPMENT SERVICES' DEPARTMENT
SHEET 12 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454
V.T.M. N/A

FOR CITY ENGINEER ____ DATE ____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

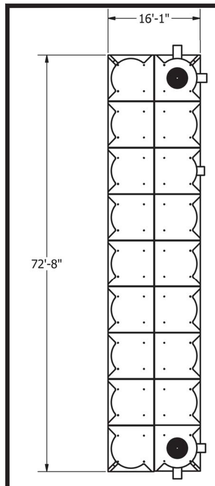
1902-6279
CCS '83 COORDINATES
262-1719
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

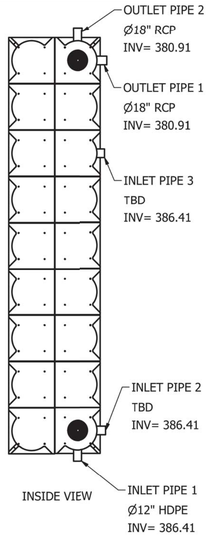
40031-12-D

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

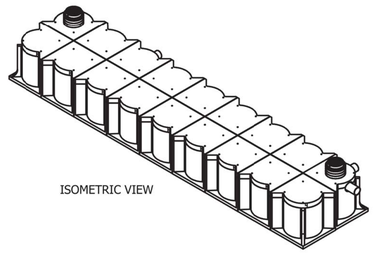
FOR REFERENCE ONLY



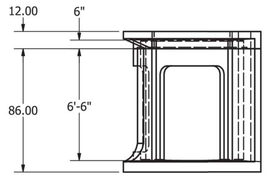
PLAIN VIEW



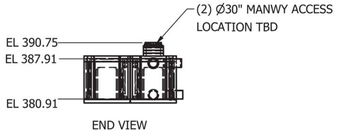
INSIDE VIEW



ISOMETRIC VIEW



SIDE UNIT



END VIEW

PIPE PLACEMENT TO BE VERIFIED PRIOR TO MANUFACTURING

Water Storage Capacity	
Storage Capacity	Units
SP360 Storage Capacity	6,205 cf
6' Storage Capacity	5,359 cf

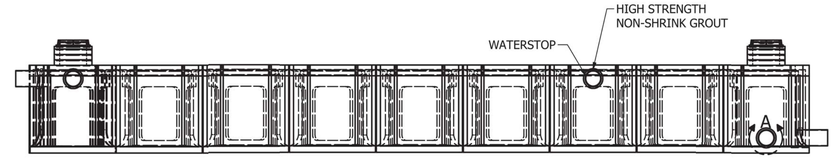
UNIT INFORMATION		
PART NUMBER	QTY	APPROX. WEIGHT
SP360-CORNER-T-.5 FT	4	4,600 LBS
SP360-CORNER-B-6.5 FT	4	15,000 LBS
SP360-SIDE-T-.5 FT	14	5,050 LBS
SP360-SIDE-B-6.5 FT	14	14,000 LBS

MATERIALS
Materials used in this work shall conform to ACI (American Concrete Institute)

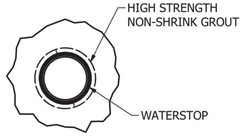
CONCRETE
28 Day Compressive 5000 psi (Minimum)
Self-Consolidating per ACI 237R-07
ASTM C1611/C1611M-14 Standard Test Method for Slump Flow
Lifting Strength 2000 psi (Minimum)

REINFORCING STEEL
Reinforcing Bars shall conform to: ASTM A615, Grade 60
Reinforcing Mesh shall conform to: ASTM A1064, Grade 70
Reinforcing Cover: 1.5" minimum

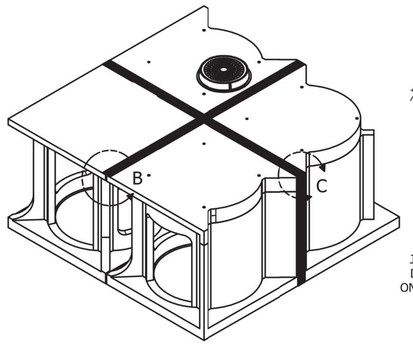
DESIGN
Designed in accordance with the AASHTO Standard Specifications, 7th Edition for HS-20 Live Load.



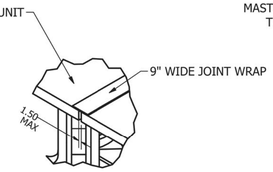
PIPE CONNECTION DETAIL



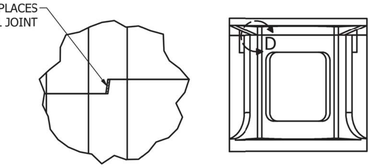
DETAIL A
PIPE NOT SHOWN



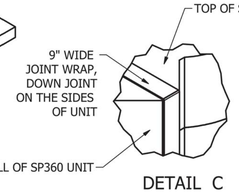
EXTERIOR WRAP DETAIL



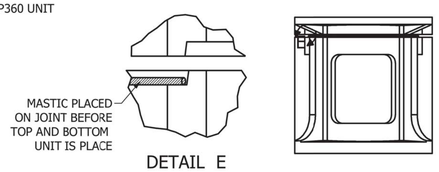
DETAIL B



DETAIL D



DETAIL C



DETAIL E

JOINT DETAIL

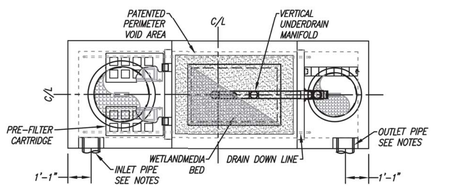
SITE SPECIFIC DATA			
PROJECT NUMBER		4908	
PROJECT NAME		GENE THEORY	
PROJECT LOCATION		A	
STRUCTURE ID		DMA 3	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
4300			
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			OFFLINE
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	380.81	PVC	8"
INLET PIPE 2	N/A	N/A	N/A
OUTLET PIPE	380.31	PVC	8"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	390.75±	390.75±	390.75±
SURFACE LOAD	H20 IN-DIRECT	H20 IN-DIRECT	H20 IN-DIRECT
FRAME & COVER	ø30"	30"X48"	ø24"
WETLANDMEDIA VOLUME (CY)			TBD
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			TBD
NOTES: UPSTREAM BYPASS ELEVATION = 386.91'. EOR TO DETERMINE PIPE SIZE.			

INSTALLATION NOTES

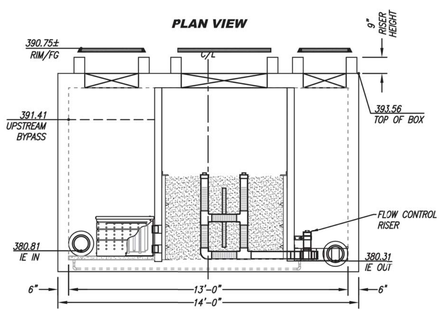
1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.
7. CONTRACTOR RESPONSIBLE FOR CONTACTING MODULAR WETLANDS FOR ACTIVATION OF UNIT. MANUFACTURES WARRANTY IS VOID WITH OUT PROPER ACTIVATION BY A MODULAR WETLANDS REPRESENTATIVE.

GENERAL NOTES

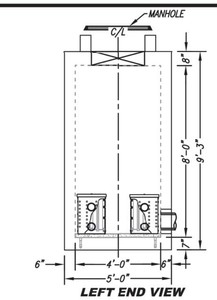
1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.



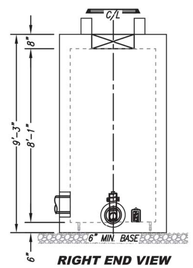
PLAN VIEW



ELEVATION VIEW



LEFT END VIEW



RIGHT END VIEW

AVAILABLE TREATMENT VOLUME (CF)	5359
DRAINDOWN DURATION (HOURS)	36
AVERAGE DISCHARGE RATE PER MWS UNIT(GPM)	18.42
OPERATING HEAD (FT)	3.9
WETLANDMEDIA INFILTRATION RATE (IN/HR) — OR —	26
WETLANDMEDIA LOADING RATE (GPM/SF)	0.26

Bio Clean
A Forterra Company

MWS-L-4-13-V-UG-HC
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

INSTALLATION SPECIFICATIONS

Storm Prism shall be installed in accordance with ASTM C-891-11 Standard Practice for Installation of Underground Precast Concrete Utility Structures.

The aggregate foundation minimum thickness per calculation is based on an underlying soil bearing pressure of 2000psi. The bearing pressure of the underlying soil must be verified by the geotechnical engineer prior to placing aggregate sub base.

The aggregate base material shall consist of ¾"angular stone. The stone shall be well compacted and seated using a vibratory roller.

The aggregate shall be graded to a tolerance of ¼" of the plan elevation.

The aggregate shall extend beyond the Storm Prism perimeter by at least 18".

The Storm Prism modules shall be placed on line and grade per the site plans. Space between modules shall be 1/2" plus / minus 1/2"

Storm Prism modules are designed to be soil tight. All exterior joints between adjacent modules shall be sealed using a preformed, cold applied, self-adhering, polymer wrap conforming to: ASTM E-1745, C-877, C-990 Specifications, and AASHTO M198 Type B.

Wrap shall be applied per manufacture's recommendations.

BACKFILL

Fill placed around the Storm Prism Modules shall be placed evenly around the entire system in 6" lifts.

Backfill shall be mechanically compacted (no jetting).

Special care should be taken when compacting adjacent to or near the tape seal not to disrupt the seal.

Perimeter backfill shall be done in accordance with ASTM C1675. Native material can be used if the material meets the standard as required in section 10.2 and 11.

Fill placement over top of Storm Prism shall be done in accordance with ASTM C1675. Fill placement shall be done in 6" lifts. Fill material not to exceed 120 PCF. At no time shall machinery or vehicles exceeding HS-20 travel over the Storm Prism.

MATERIALS
Materials used in this work shall conform to ACI (American Concrete Institute)

CONCRETE
28 Day Compressive 5000 psi (Minimum)
Self-Consolidating per ACI 237R-07
ASTM C1611/C1611M-14 Standard Test Method for Slump Flow
Lifting Strength 2000 psi (Minimum)

REINFORCING STEEL
Reinforcing Bars shall conform to: ASTM A615, Grade 60
Reinforcing Mesh shall conform to: ASTM A1064, Grade 70
Reinforcing Cover: 1.5" minimum

DESIGN

Designed in accordance with the AASHTO Standard Specifications, 17th Edition for HS-20 Live Load.

FABRICATION

Fabrication shall meet the requirements of the following:

Fabrication Tolerances
1. Width: +1/4", -1/4"
2. Length: +1/4", -1/4"
3. Height: +1/4", -1/4"
4. Deviation from square: 1/4"
5. Member Thickness: +1/4", -1/4"

SHIPING AND HANDLING

The Precast Supplier and Contractor shall verify that the method of lifting does not overstress the precast concrete pieces in any way.

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. WOLFE
NO. 44271
CIVIL
STATE OF CALIFORNIA

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

STORM DRAIN DETAILS FOR:
GENE THEORY
PARCELS 1, 2, 3, & 4 OF PM 13198

REDWOOD CITY, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 13 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454
V.T.M. N/A

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

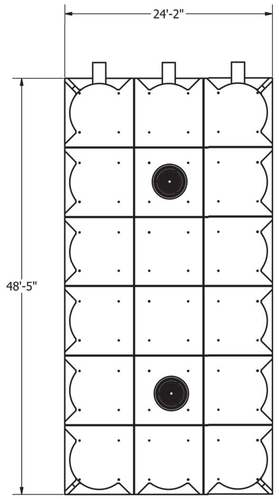
1902-6279
CCS '83 COORDINATES
262-1719
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

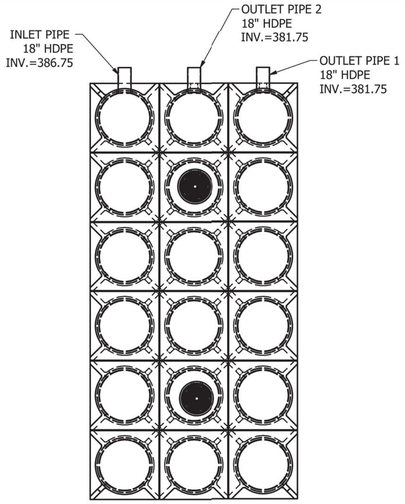
40031-13-D

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

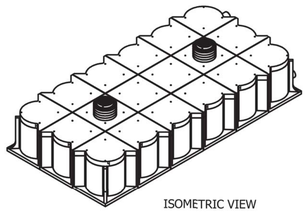
FOR REFERENCE ONLY



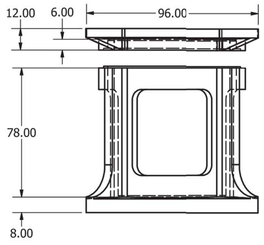
PLAIN VIEW



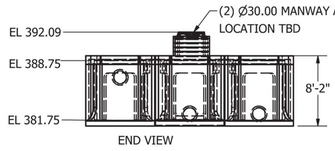
INSIDE VIEW



ISOMETRIC VIEW



CENTER UNIT



END VIEW

PIPE PLACEMENT TO BE VERIFIED PRIOR TO MANUFACTURING

Water Storage Capacity	
Storage Capacity	Units
SP360 Storage Capacity	6,433 cf
6' Storage Capacity	5,558 cf

UNIT INFORMATION		
PART NUMBER	QTY	APPROX. WEIGHT
SP360-CORNER-T-.5 FT	4	4,600 LBS
SP360-CORNER-B-6.5 FT	4	15,000 LBS
SP360-SIDE-T-.5 FT	10	5,050 LBS
SP360-SIDE-B-6.5 FT	10	13,900 LBS
SP360-CENTER-T-.5 FT	4	5,100 LBS
SP360-CENTER-B-6.5 FT	1	11,500 LBS

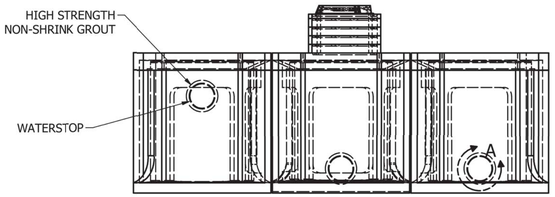
MATERIALS
Materials used in this work shall conform to ACI (American Concrete Institute)

CONCRETE
28 Day Compressive 5000 psi (Minimum)
Self-Consolidating per ACI 237R-07
ASTM C1611/C1611M-14 Standard Test Method for Slump Flow
Lifting Strength 2000 psi (Minimum)

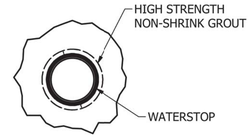
REINFORCING STEEL
Reinforcing Bars shall conform to: ASTM A615, Grade 60
Reinforcing Mesh shall conform to: ASTM A1064, Grade 70
Reinforcing Cover: 1.5" minimum

DESIGN

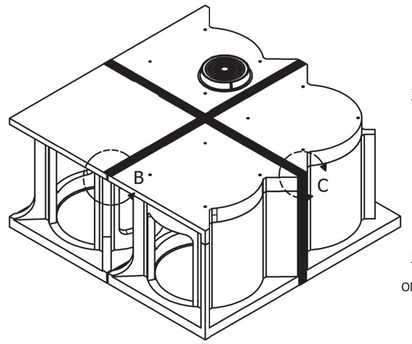
Designed in accordance with the AASHTO Standard Specifications, 7th Edition for HS-20 Live Load.



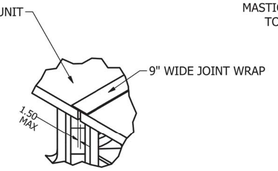
PIPE CONNECTION DETAIL



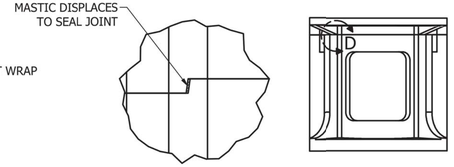
DETAIL A
PIPE NOT SHOWN



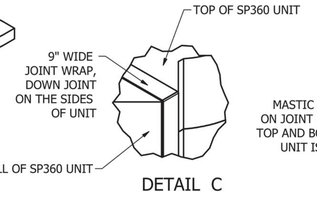
EXTERIOR WRAP DETAIL



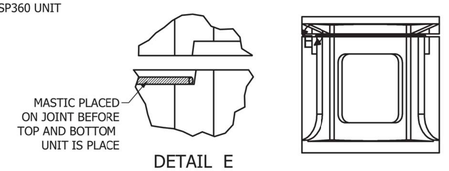
DETAIL B



DETAIL D



DETAIL C



DETAIL E

JOINT DETAIL

INSTALLATION SPECIFICATIONS

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Perimeter backfill shall be done in accordance with ASTM C1675. Native material can be used if the material meets the standard as required in section 10.2 and 11.

Fill placement over top of Storm Prism shall be done in accordance with ASTM C1675. Fill placement shall be done in 6" lifts. Fill material not to exceed 120 PCF. At no time shall machinery or vehicles exceeding HS-20 travel over the Storm Prism.

MATERIALS
Materials used in this work shall conform to ACI (American Concrete Institute)

CONCRETE
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Self-Consolidating per ACI 237R-07
ASTM C1611/C1611M-14 Standard Test Method for Slump Flow
Lifting Strength 2000 psi (Minimum)

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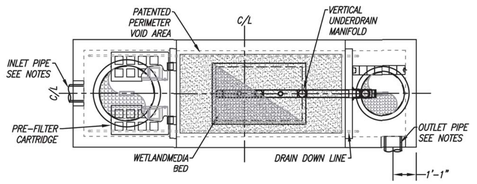
3. Height: +1/4", -1/4"
4. Deviation from square: 1/4"
5. Member Thickness: +1/4", -1/4"

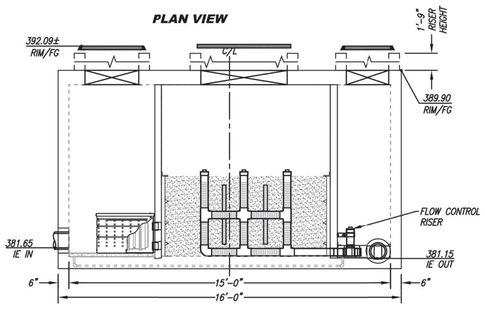
SHIPING AND HANDLING

The Precast Supplier and Contractor shall verify that the method of lifting does not overstress the precast concrete pieces in any way.

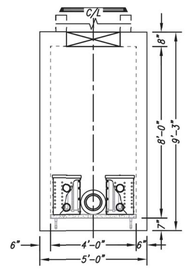
SITE SPECIFIC DATA			
PROJECT NUMBER		4908	
PROJECT NAME		GENE THEORY	
PROJECT LOCATION		A	
STRUCTURE ID		DMA 4	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
5400			
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			OFFLINE
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	381.65	PVC	8"
INLET PIPE 2	N/A	N/A	N/A
OUTLET PIPE	381.15	PVC	8"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	392.09±	392.09±	392.09±
SURFACE LOAD	H20 IN-DIRECT	H20 IN-DIRECT	H20 IN-DIRECT
FRAME & COVER	ø30"	30"X48"	ø24"
WETLANDMEDIA VOLUME (CY)			TBD
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			TBD
NOTES: UPSTREAM BYPASS ELEVAITON = 387.75'. EOR TO DETERMINE PIPE SIZE.			



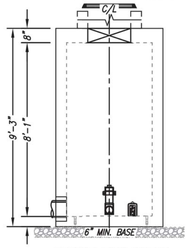
PLAN VIEW



ELEVATION VIEW



LEFT END VIEW



RIGHT END VIEW

REQUIRED TREATMENT VOLUME (CF)	5558
DRAINDOWN DURATION (HOURS)	35
AVERAGE DISCHARGE RATE PER MWS UNIT(GPM)	19.80
OPERATING HEAD (FT)	3.4
WETLANDMEDIA INFILTRATION RATE (IN/HR)	26
OR	
WETLANDMEDIA LOADING RATE (GPM/SF)	0.26

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERES STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.
7. CONTRACTOR RESPONSIBLE FOR CONTACTING MODULAR WETLANDS FOR ACTIVATION OF UNIT. MANUFACTURES WARRANTY IS VOID WITH OUT PROPER ACTIVATION BY A MODULAR WETLANDS REPRESENTATIVE.

GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.

4/17/17 DRAWING

Bio Clean
A Forterra Company

MWS-L-4-15-V-UG
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. WOLFE
NO. 44271
CIVIL
STATE OF CALIFORNIA

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

STORM DRAIN DETAILS FOR:
GENE THEORY

CIREDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES' DEPARTMENT
SHEET 14 OF 14 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454
V.T.M. N/A

FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

1902-6279
CCS '83 COORDINATES
262-1719
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

40031-14-D

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

FOR REFERENCE ONLY

TRAFFIC CONTROL NOTES

1. VALIDATION: THE TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES AND WORK HOURS ARE APPROVED. THE CONTRACTOR SHALL SUBMIT TWO (2) REDUCED COPIES OF TRAFFIC CONTROL PLANS (11"X17") TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, S . THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM OF FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

2. CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858) 495-4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY CONSTRUCTION WORK AFFECTING TRAFFIC SIGNALS.

3. STANDARDS: THE TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF EACH OF THE FOLLOWING MANUALS:

DESCRIPTION	EDITION	DOCUMENT NO.
STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREENBOOK")	2015	*PWPI070116-01*
REDWOOD CITY STANDARD DRAWINGS	2016	*PWPI070116-03*
CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)	2014	*PWPI092816-07*

4. NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL AFFECTING THE AGENCIES LISTED BELOW:

FIRE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858) 573-1300
POLICE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(619) 531-2000
ENVIRONMENTAL SERVICES	(REFUSE COLLECTION)	(858) 492-5060
STREET DIVISION	(TRAFFIC SIGNALS)	(619) 527-7500
METROPOLITAN TRANSIT SYSTEM (MTS)	(BUS STOPS)	(619) 238-0100 EXT. 6451
METROPOLITAN TRANSIT SYSTEM (MTS)	(TAXI ZONES	(619) 235-2644
METROPOLITAN TRANSIT SYSTEM (MTS)	(TROLLEY LINES)	(619) 595-4930
UNDERGROUND SERVICE ALERT	(ANY EXCAVATION)	(800) 422-4133

THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF STREETS.

THE CONTRACTOR SHALL NOTIFY ENGINEERING FIELD DIVISION AT (858) 627-3200 AND ARRANGE FOR INSPECTION A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK INVOLVING NIGHTTIME OR WEEKEND HOURS.

5. POSTING PARKING RESTRICTIONS: THE CONTRACTOR SHALL POST TOW-AWAY/NO PARKING SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE OF PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES AND TIMES OF RESTRICTIONS. PARKING METERS SHALL BE BAGGED WHERE APPLICABLE.

6. EXCAVATIONS: EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS, ALL TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORKDAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED. UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES, BIKE LANES, AND PEDESTRIAN WALKWAYS IN THE RIGHT-OF-WAY EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS.

7. COVERED PEDESTRIAN WALKWAY: THE CONTRACTOR SHALL CONTACT CITY RESIDENT ENGINEER AT (619) 627-3200 FOR INSPECTION OF ANY COVERED PEDESTRIAN WALKWAY DURING CONSTRUCTION OF SUCH WALKWAY.

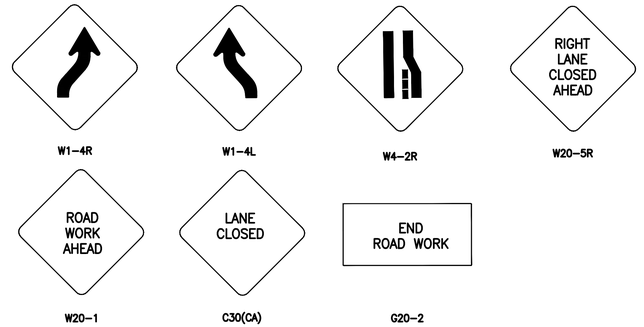
8. RESTORATION OF ROADWAY: THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING IMPROVEMENTS WITHIN THE RIGHT-OF-WAY NOT DESIGNATED FOR PERMANENT REMOVAL (TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) WHICH ARE DAMAGED OR REMOVED AS A RESULT OF OPERATIONS. REPAIRS AND REPLACEMENTS SHALL BE AT LEAST EQUAL TO EXISTING IMPROVEMENT.

9. CHANGE IN WORK: THE CITY ENGINEER RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND TO MAKE ANY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL BE DOCUMENTED AND SUPERSEDE THESE PLANS.

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC
CONSTRUCTION SIGN
TYPE III BARRICADE W/ SIGN
FLASHING ARROW SIGN
PORTABLE DELINEATOR
WORK AREA
FLAGGER

TEMPORARY CONSTRUCTION SIGNS (THIS SHEET)



W1-4R W1-4L W4-2R W20-5R W20-1 C30(CA) G20-2

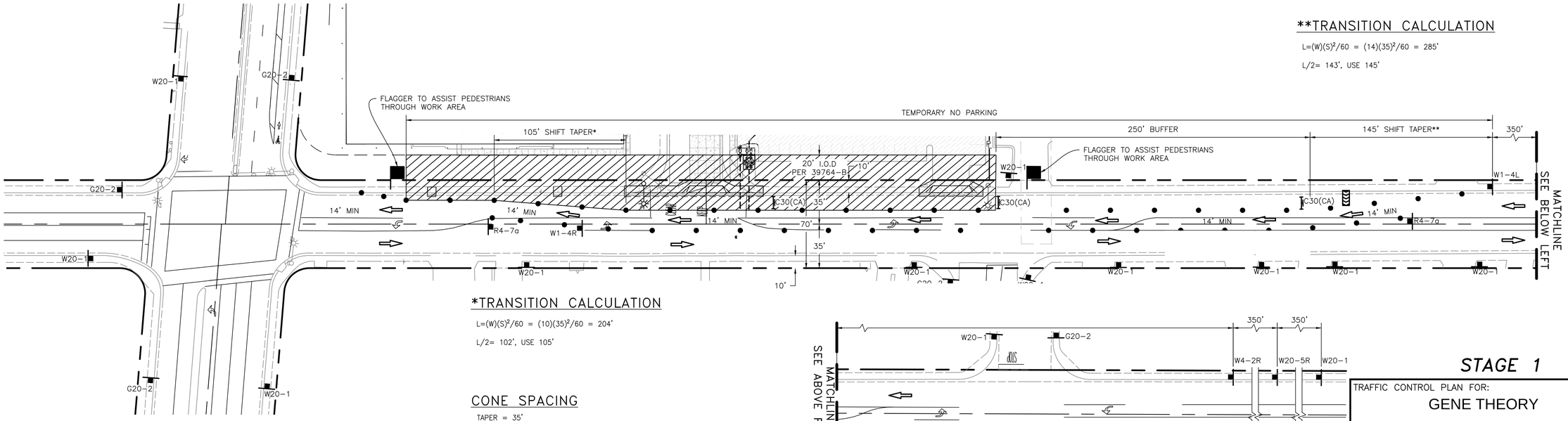
SCOPE OF WORK

- CONSTRUCT 2 COMMERCIAL DRIVEWAYS
- CONSTRUCT CURB & GUTTER AND SIDEWALK
- CONSTRUCT PORTION OF DOMESTIC AND FIRE WATER SERVICES
- REPLACE CURB & GUTTER AND SIDEWALK PANELS AT LOCATIONS OF SIDEWALK UNDERDRAIN REMOVAL

**TRANSITION CALCULATION

L=(W)(S)²/60 = (14)(35)²/60 = 285'

L/2= 143', USE 145'



*TRANSITION CALCULATION

L=(W)(S)²/60 = (10)(35)²/60 = 204'

L/2= 102', USE 105'

CONE SPACING

TAPER = 35'
TANGENT = 70'
CONFLICT* = 17'

*FACING OPPOSING TRAFFIC, ADJACENT TO WORK AREA, OR CONFLICTING WITH EXISTING STRIPING

STAGE 1

TRAFFIC CONTROL PLAN

N

40 20 0 40 80

SCALE: 1" = 40'

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. WOLFE NO. 44271 CIVIL STATE OF CALIFORNIA

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

TRAFFIC CONTROL PLAN FOR:
GENE THEORY

(REDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 1 OF 3 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454

FOR CITY ENGINEER DATE

V.T.M. N/A

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

1902-6279
CCS '83 COORDINATES

262-1719
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

TC-1

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

FOR REFERENCE ONLY

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC

CONSTRUCTION SIGN

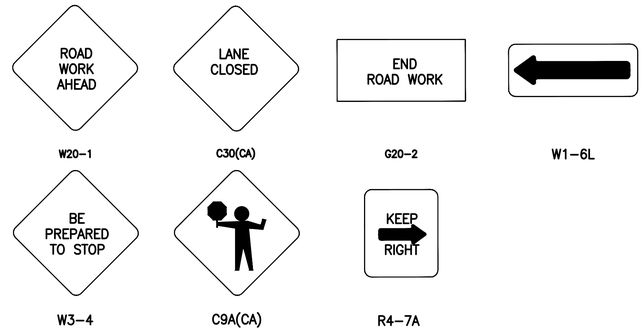
TYPE III BARRICADE W/ SIGN

FLAGGER

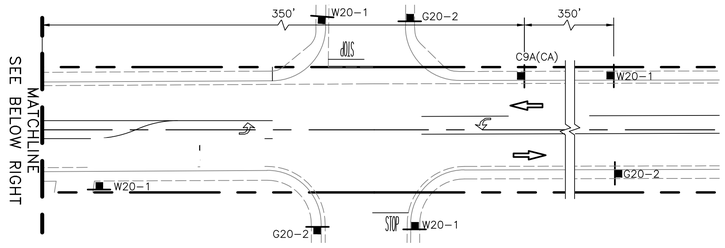
PORTABLE DELINEATOR

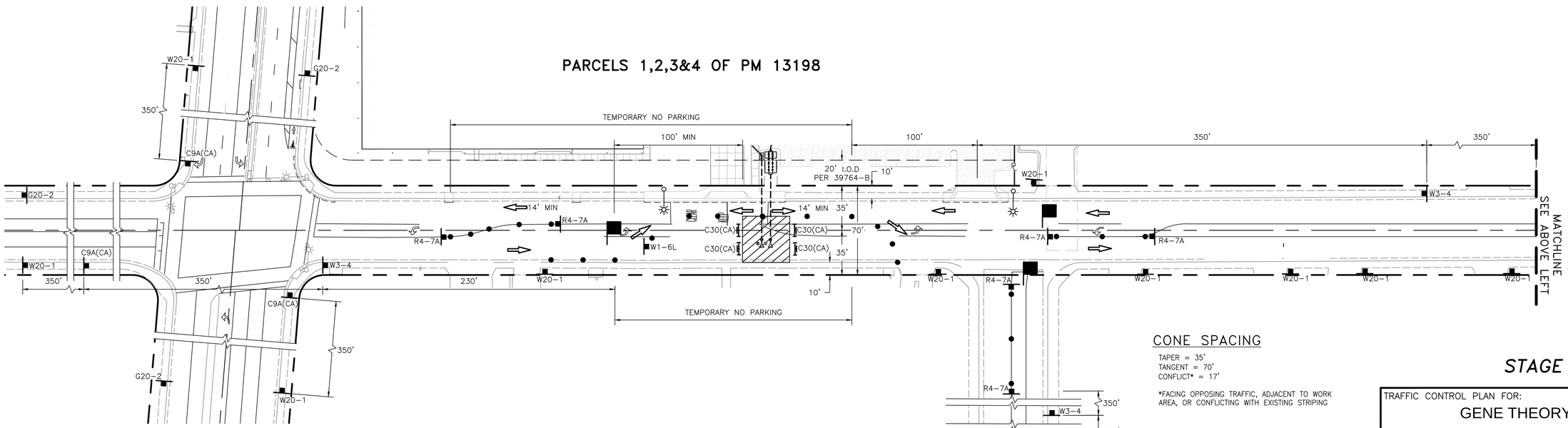
WORK AREA

TEMPORARY CONSTRUCTION SIGNS (THIS SHEET)



- CONSTRUCT PORTION OF DOMESTIC AND FIRE WATER SERVICES & CONNECTIONS TO MAIN





CONE SPACING

TAPER = 35'
TANGENT = 70'
CONFLICT* = 17'

*FACING OPPOSING TRAFFIC, ADJACENT TO WORK AREA, OR CONFLICTING WITH EXISTING STRIPING

STAGE 2

TRAFFIC CONTROL PLAN

N

40 20 0 40 80

SCALE: 1" = 40'

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

MICHAEL D. WOLFE R.C.E. NO. 44271 DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. WOLFE NO. 44271 CIVIL STATE OF CALIFORNIA

TRAFFIC CONTROL PLAN FOR:

GENE THEORY

PARCELS 1, 2, 3, & 4 OF PM 13198

(REDWOOD CITY), CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 2 OF 3 SHEETS

I.O. NO. 11003681
PROJECT NO. 542454

FOR CITY ENGINEER _____ DATE _____

V.T.M. N/A

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDE			
AS-BUILTS				

1902-6279
CCS '83 COORDINATES

262-1719
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-2

DPR Issued Sheet 2017-08-08
Link to Sheet Index - 2G-002

FOR REFERENCE ONLY

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC

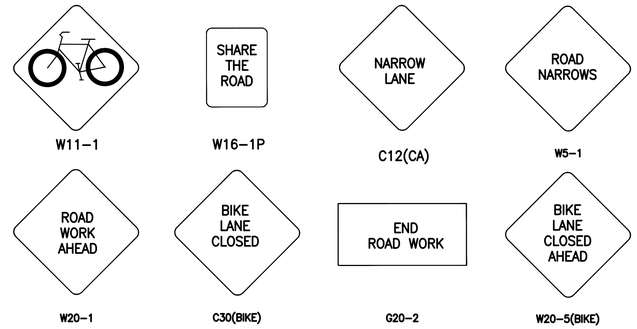
CONSTRUCTION SIGN

TYPE III BARRICADE W/ SIGN

PORTABLE DELINEATOR

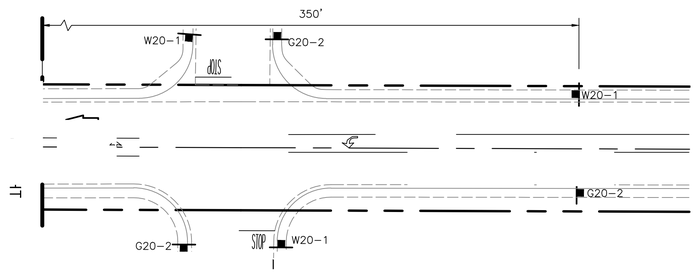
WORK AREA

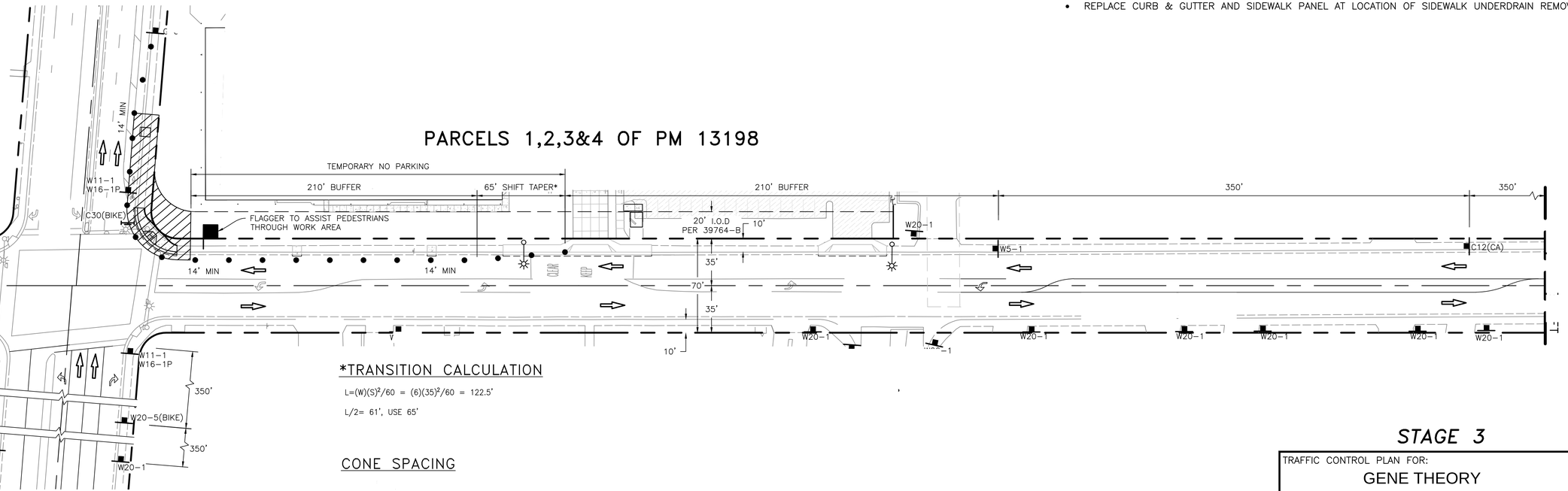
TEMPORARY CONSTRUCTION SIGNS (THIS SHEET)



SCOPE OF WORK

- CONSTRUCT CURB RAMP
- REPLACE CURB & GUTTER AND SIDEWALK PANEL AT LOCATION OF SIDEWALK UNDERDRAIN REMOVAL





*TRANSITION CALCULATION

L=(W)(S)²/60 = (6)(35)²/60 = 122.5'

L/2= 61', USE 65'

CONE SPACING

40'

STAGE 3

TRAFFIC CONTROL PLAN FOR:

GENE THEORY

(REDWOOD

APPROVED	DATE	FILMED

REGISTERED MICHAEL D. WOLF CIVIL STATE OF CALIFORNIA

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GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

1ST FLOOR OVERALL AV PLAN

Sheet No.

2TA-210

CP2 1ST FLOOR OVERALL
AUDIO VISUAL PLAN

SCALE: 10' 20'

1

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002



GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
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4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

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CP2 2ND FLOOR OVERALL
AUDIO VISUAL PLAN

SCALE: 10' 20'

1

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

2ND FLOOR
OVERALL
AV PLAN

Sheet No.

2TA-220

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

7/26/2017 4:14:23 PM



GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

CP2 3RD FLOOR OVERALL
AUDIO VISUAL PLAN

SCALE: 10' 20'

1

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

3RD FLOOR
OVERALL
AV PLAN

Sheet No.

2TA-230

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

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GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

CP2 4TH FLOOR OVERALL
AUDIO VISUAL PLAN

SCALE: 10' 20'

1

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

4TH FLOOR
OVERALL
AV PLAN

Sheet No.

2TA-240

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

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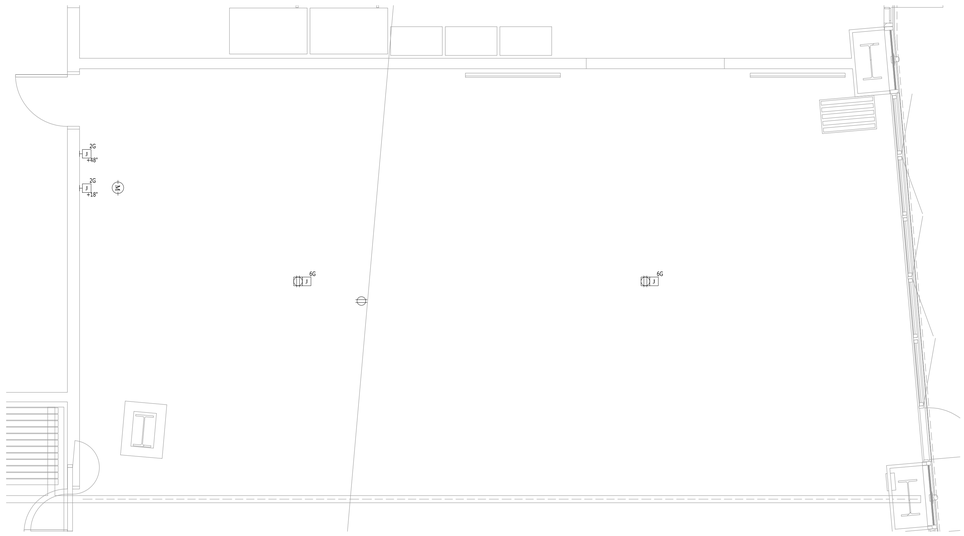
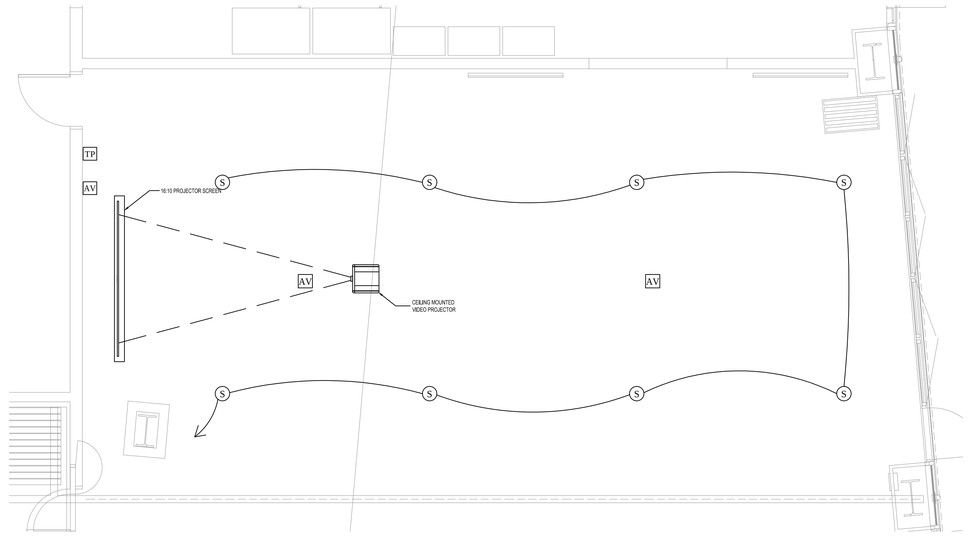


MULTIPURPOSE ROOM 110.1
ENLARGED INFRASTRUCTURE PLAN

1



MULTIPURPOSE ROOM 110.1
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 110.1
AV PLAN

Sheet No.

2TA-311

DPR Issued Sheet 2017-08-08
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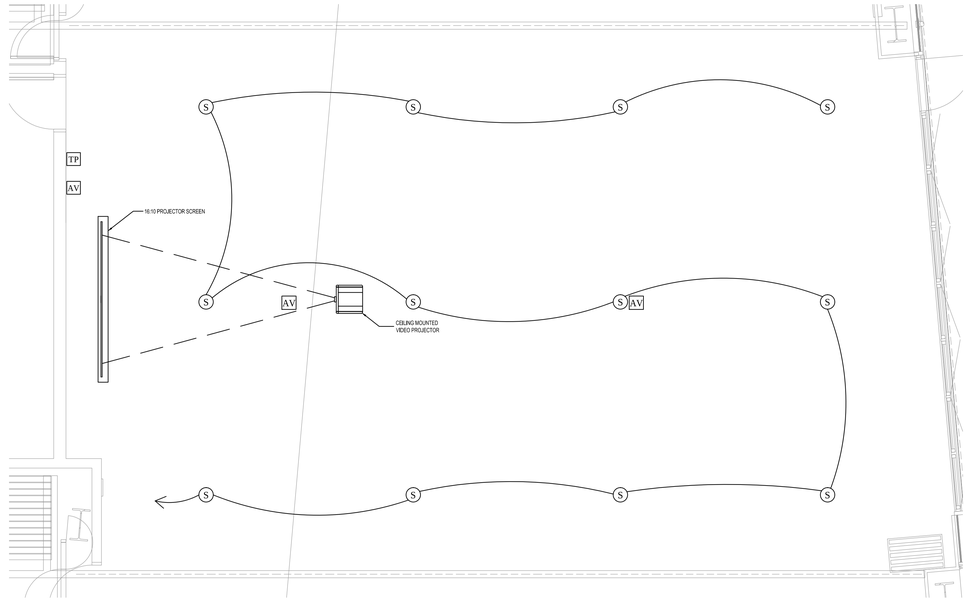
MULTIPURPOSE ROOM 110.2
ENLARGED INFRASTRUCTURE PLAN

1



MULTIPURPOSE ROOM 110.2
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 110.2
AV PLAN

Sheet No.

2TA-312

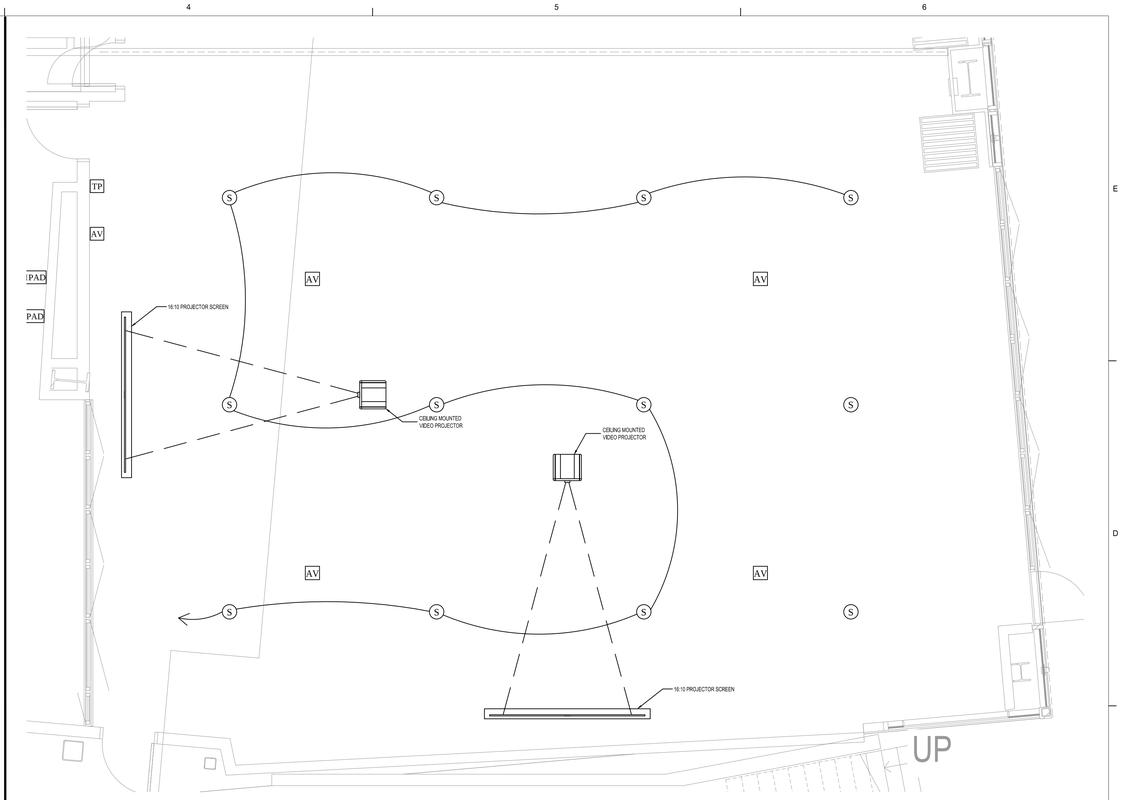
DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/28/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



MULTIPURPOSE ROOM 110.3
ENLARGED INFRASTRUCTURE PLAN

1



MULTIPURPOSE ROOM 110.3
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 110.3
AV PLAN

Sheet No.

2TA-313

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7/28/2017 4:14:23 PM



LOBBY 101
ENLARGED INFRASTRUCTURE PLAN

1



LOBBY 101
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 101
AV PLAN

Sheet No.

2TA-314

DPR Issued Sheet 2017-08-08
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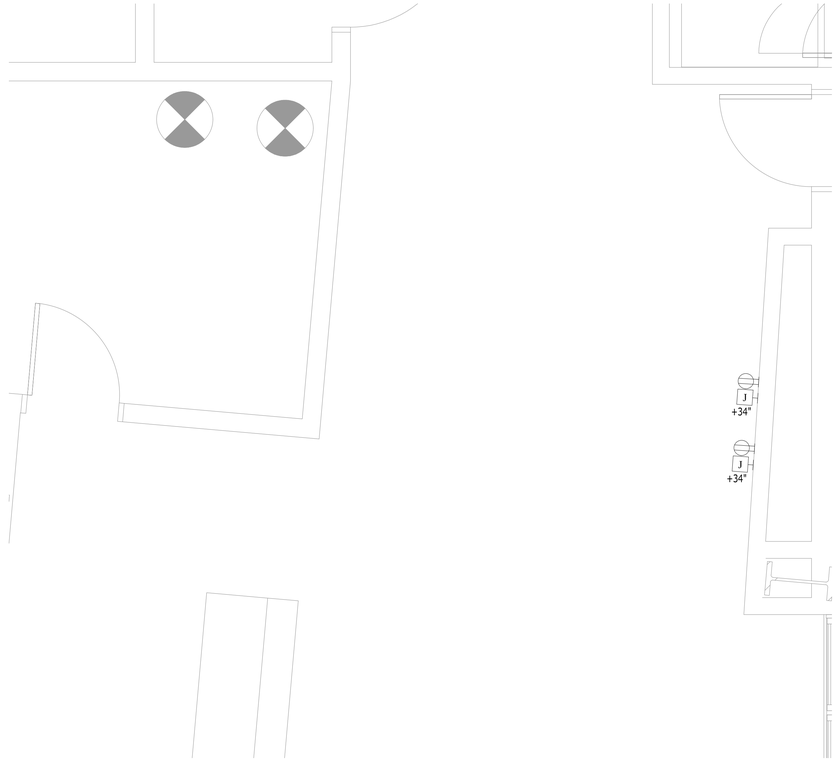
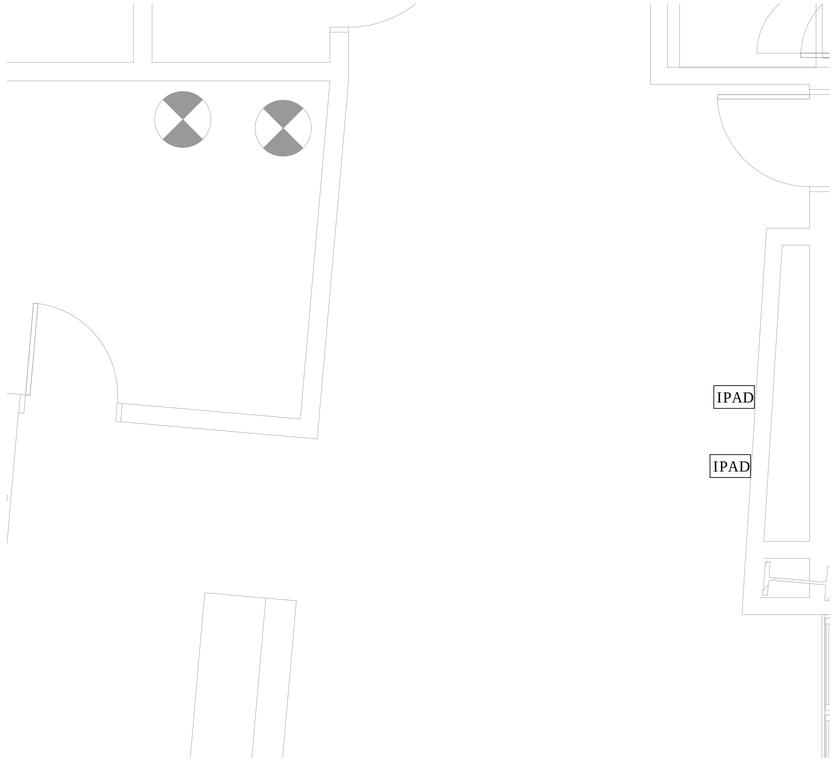
7/28/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



LOBBY 101 IPAD
ENLARGED INFRASTRUCTURE PLAN

1



LOBBY 101 IPAD
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

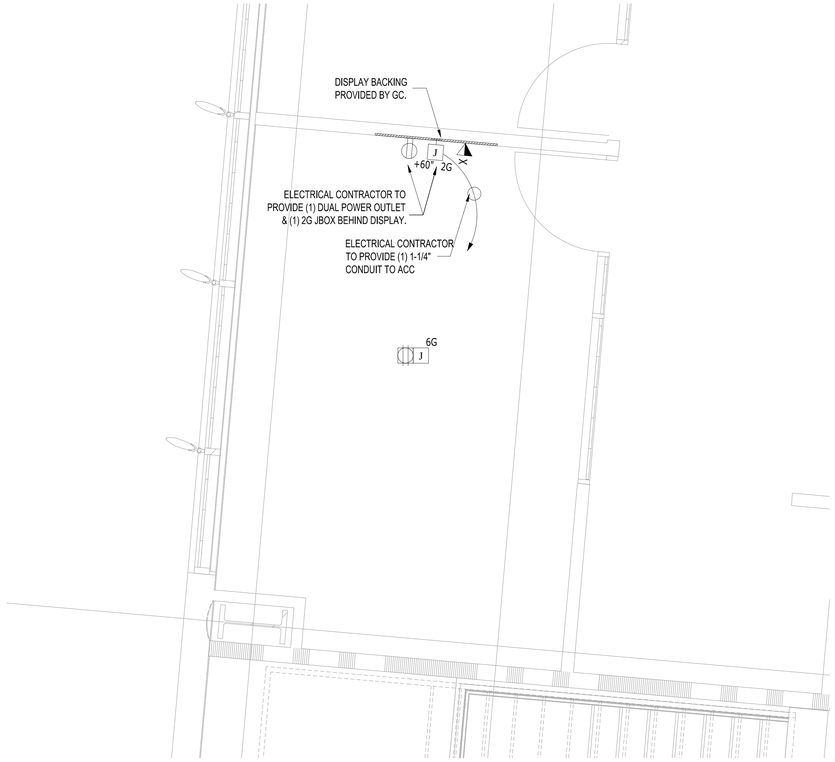
ENLARGED LOBBY IPAD AV PLAN

Sheet No.

2TA-315

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/28/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



CONFERENCE ROOM 213
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 213
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
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GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

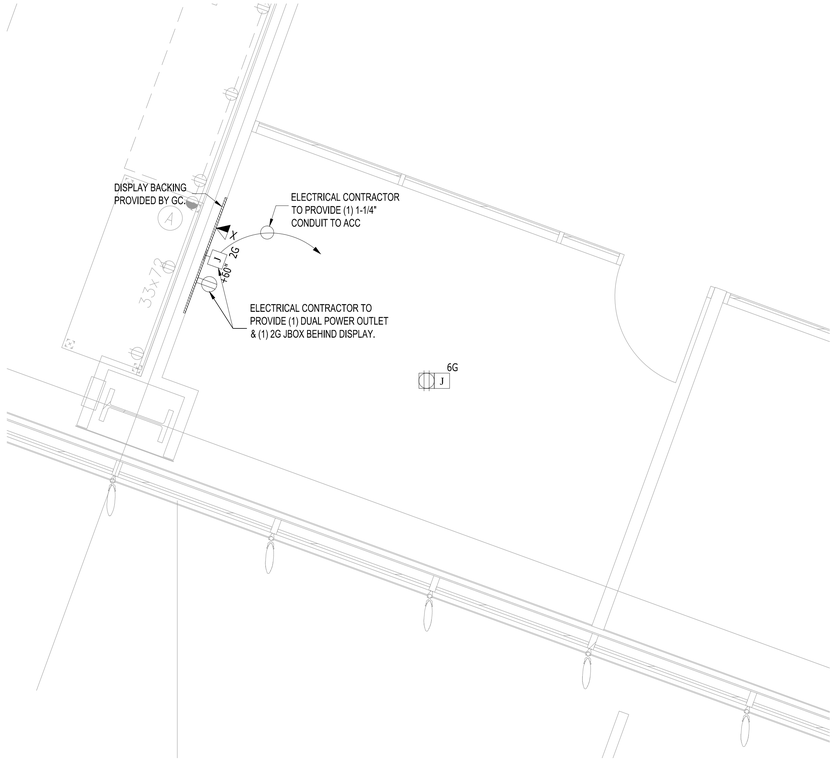
ENLARGED
ROOM 213
AV PLAN

Sheet No.

2TA-321

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/28/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



CONFERENCE ROOM 260
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 260
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
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3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

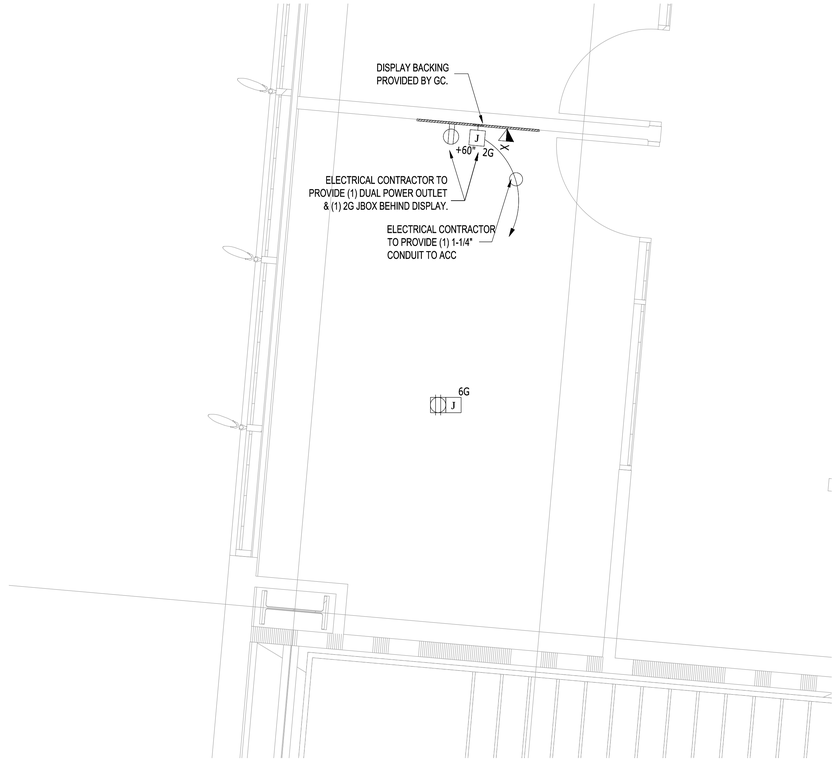
ENLARGED
ROOM 2160
AV PLAN

Sheet No.

2TA-322

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/28/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



CONFERENCE ROOM 313
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 313
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
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GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

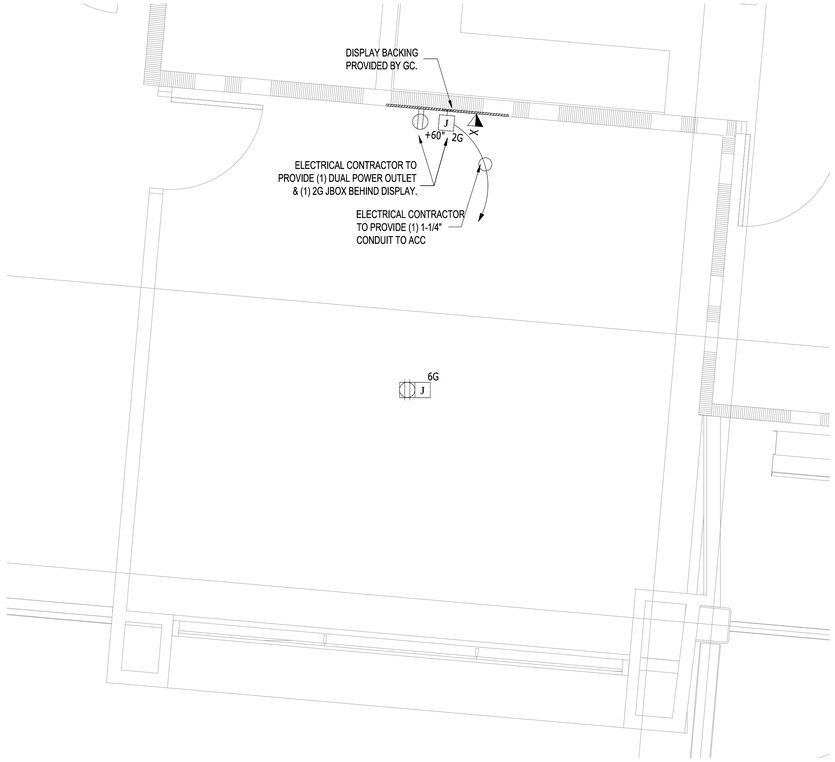
Sheet Title

ENLARGED
ROOM 313
AV PLAN

Sheet No.

2TA-331

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002



CONFERENCE ROOM 310
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 310
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
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GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

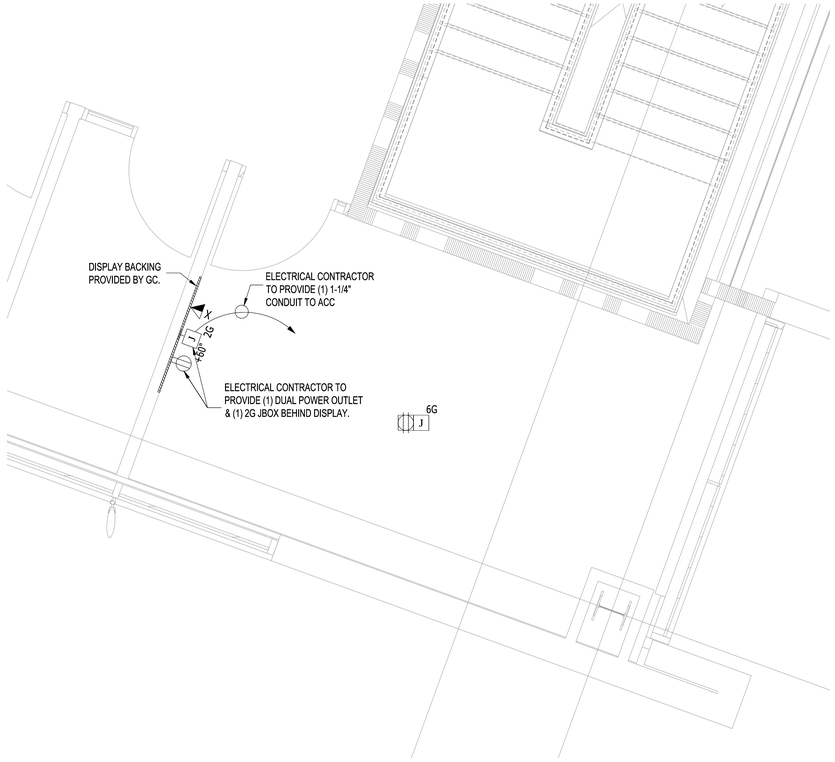
ENLARGED
ROOM 310
AV PLAN

Sheet No.

2TA-332

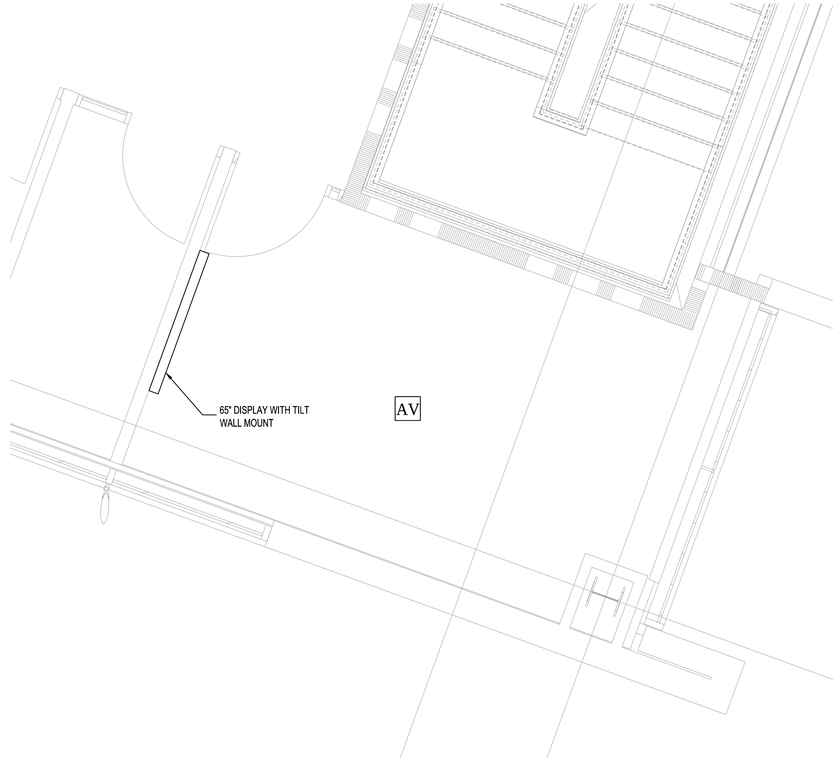
DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/28/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



CONFERENCE ROOM 370
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 370
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED ROOM 370 AV PLAN

Sheet No.

2TA-333

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/28/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



CONFERENCE ROOM 424
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 424
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 424
AV PLAN

Sheet No.

2TA-341

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/28/2017 4:14:23 PM
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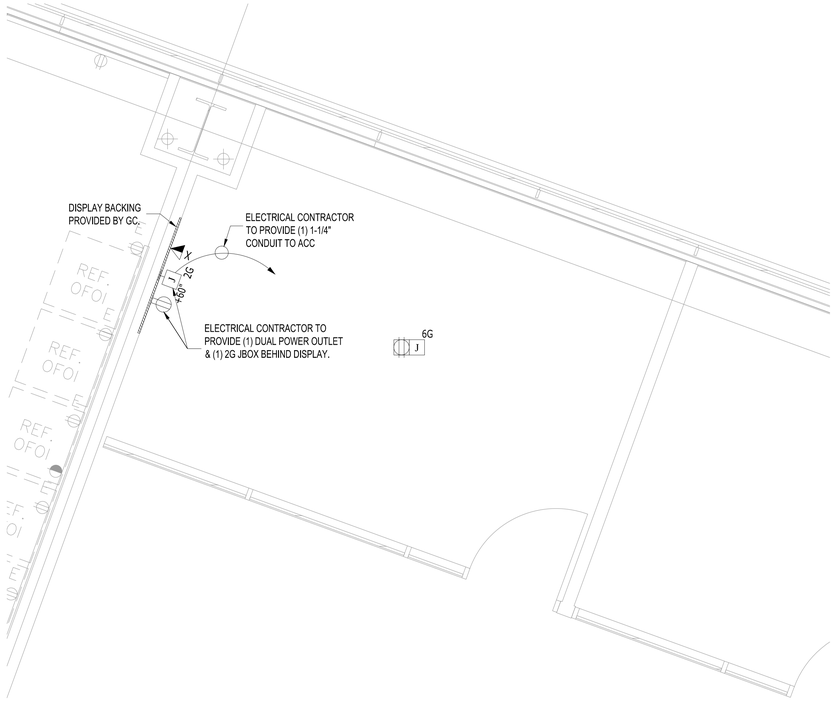
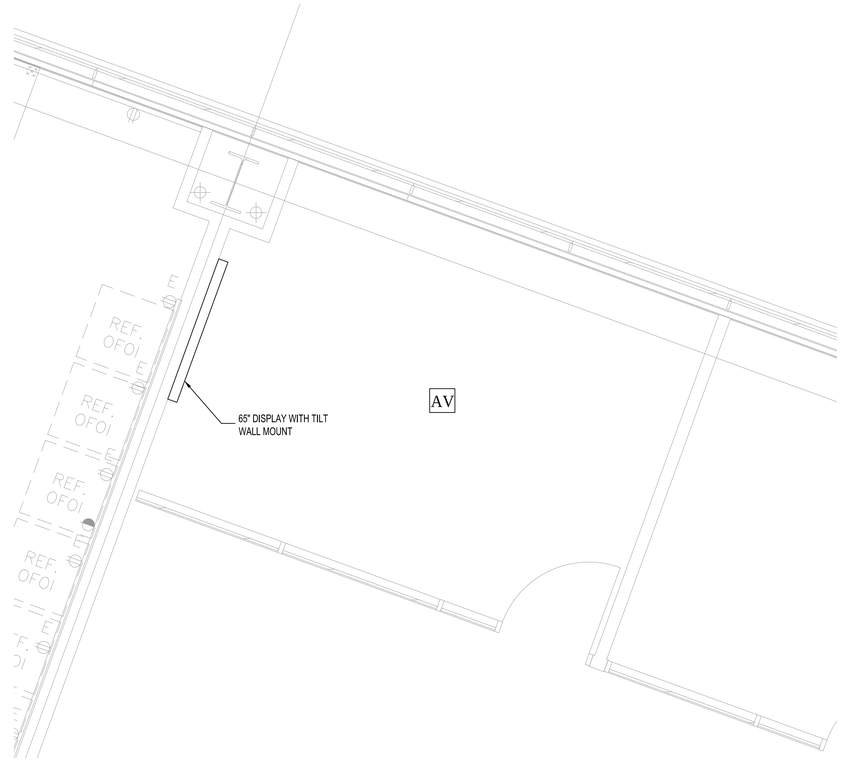


CONFERENCE ROOM 483
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 483
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
ROOM 483
AV PLAN

Sheet No.

2TA-342

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/28/2017 4:14:23 PM
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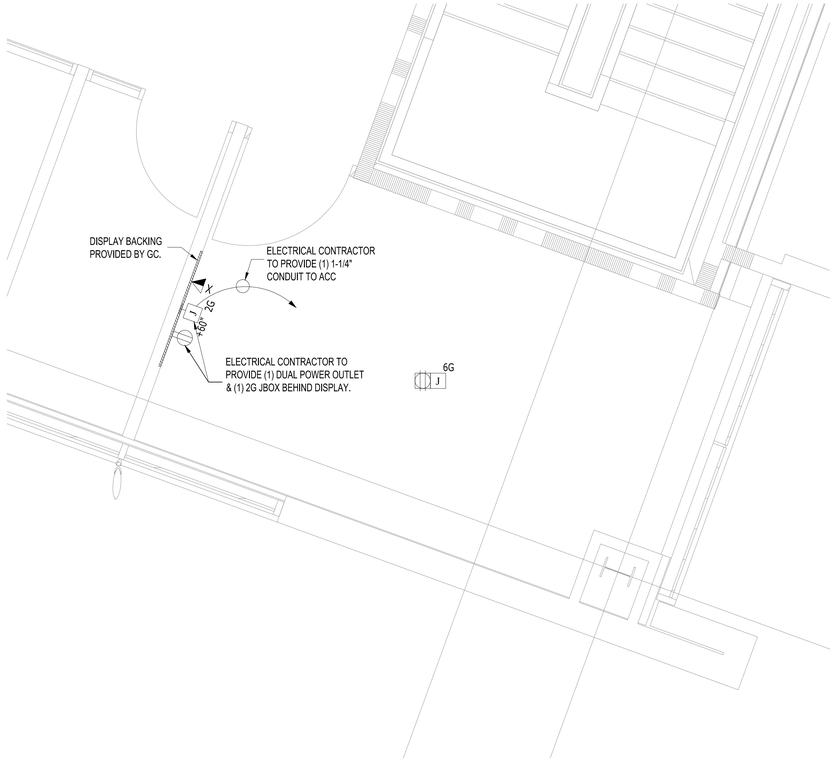
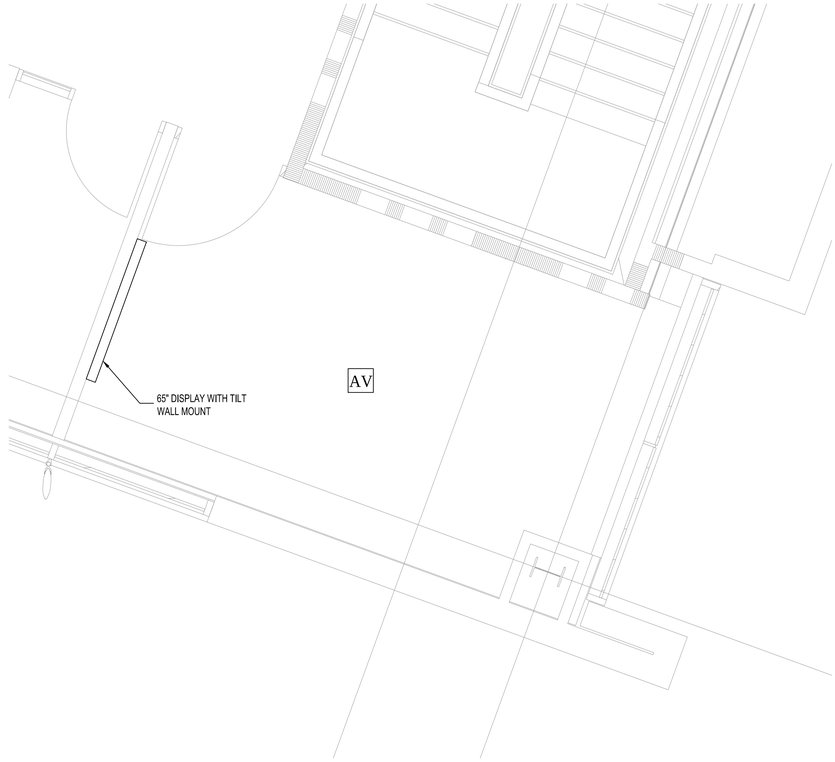


CONFERENCE ROOM 488
ENLARGED INFRASTRUCTURE PLAN

1



CONFERENCE ROOM 488
ENLARGED EQUIPMENT PLAN

2

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
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GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

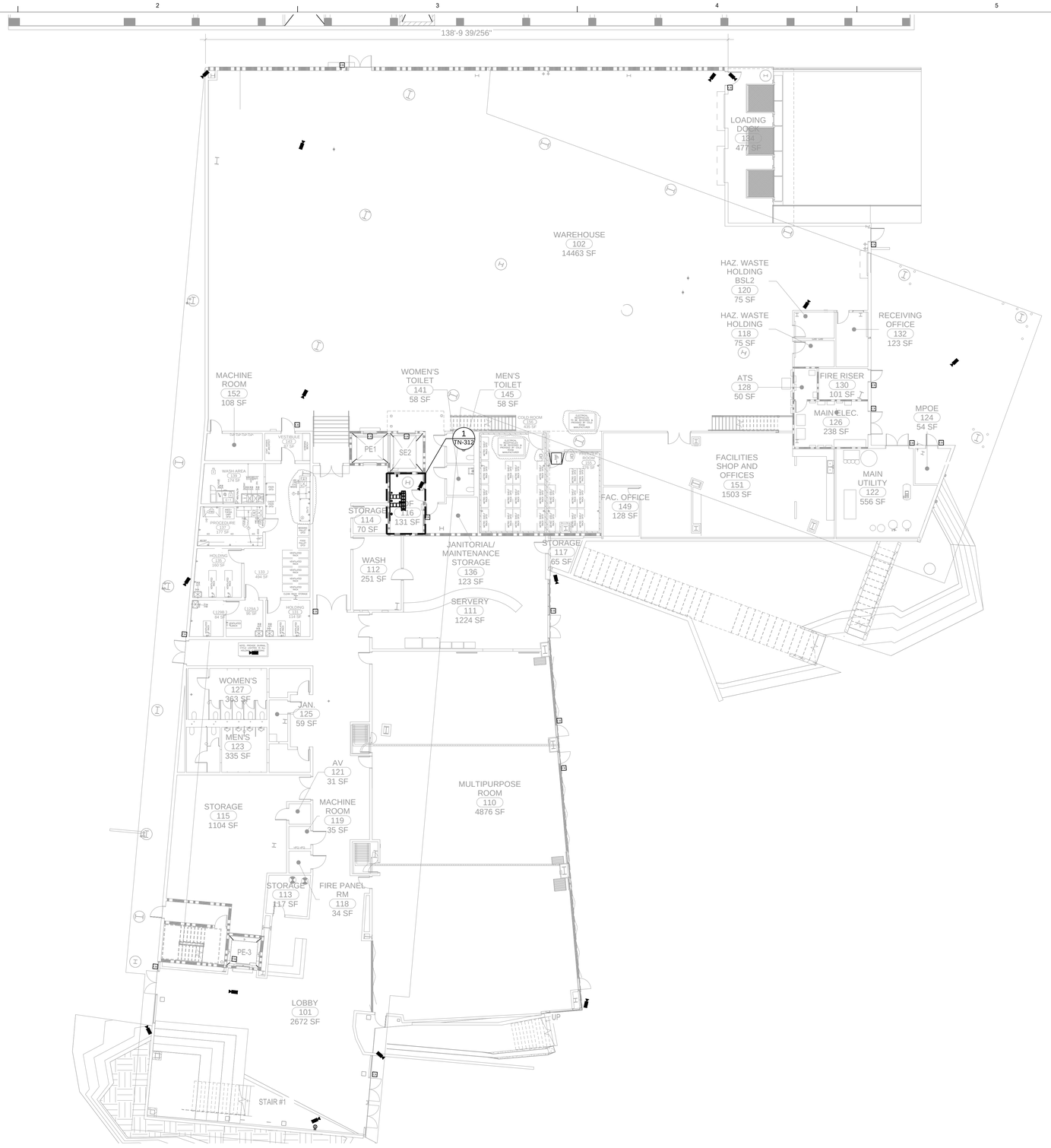
ENLARGED ROOM 488 AV PLAN

Sheet No.

2TA-343

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/26/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



KEY NOTES:

1 SERVER ROOM, SEE PAGE TN-312 FOR ENLARGED VIEW

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ALL EXTERIOR EQUIPMENT WILL REQUIRE A 1" PENETRATION WITH A 3" RISE FROM EXTERIOR TO INTERIOR.
5. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

CP2 1ST FLOOR SECURITY PLAN

SCALE: 10' 20'

1

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
B	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL SECURITY PLAN

Sheet No.
2A-234

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/6/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



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5. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

CP2 2ND FLOOR
SECURITY PLAN

SCALE: 10' 20'

1

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	04.25.17	DESIGN DEVELOPMENT
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CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL
SECURITY
PLAN

Sheet No.
2A-234

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

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KEY NOTES:

1 MDF, SEE PAGE TN-313 FOR ENLARGED VIEW

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.
4. ALL EXTERIOR EQUIPMENT WILL REQUIRE A 1" PENETRATION WITH A 3" RISE FROM EXTERIOR TO INTERIOR.
5. ELECTRICAL CONTRACTOR TO PROVIDED RING AND STRING TO ALL LOCATIONS THAT DO NOT REQUIRE CONDUIT.

CP2 3RD FLOOR
SECURITY PLAN

SCALE: 10' 20'

1

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

OVERALL
SECURITY
PLAN

Sheet No.
2A-234

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CP2 4TH FLOOR SECURITY PLAN

SCALE: 10' 20'

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GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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OVERALL SECURITY PLAN

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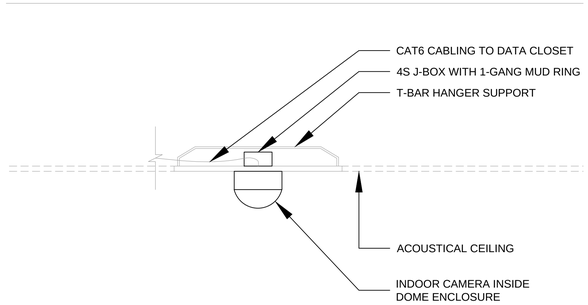
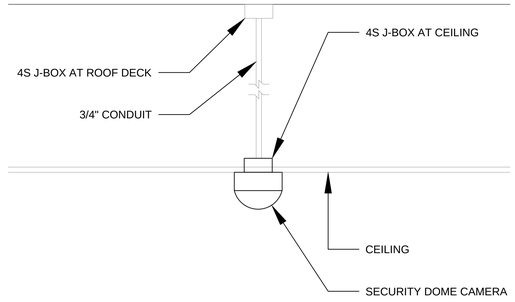
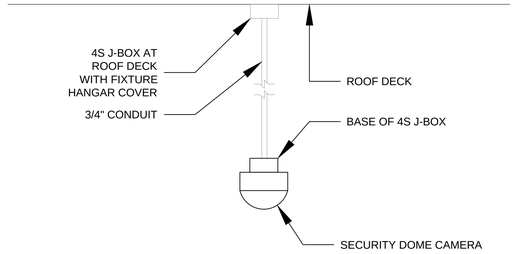


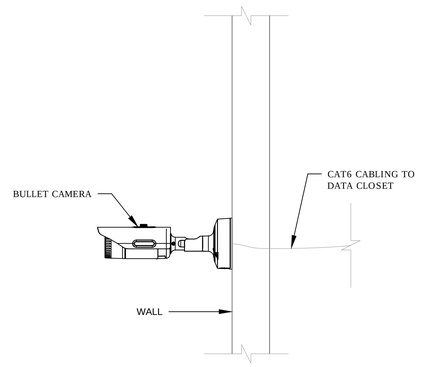
DOME CAMERA -
TYPICAL CEILING TILE MOUNT | 1



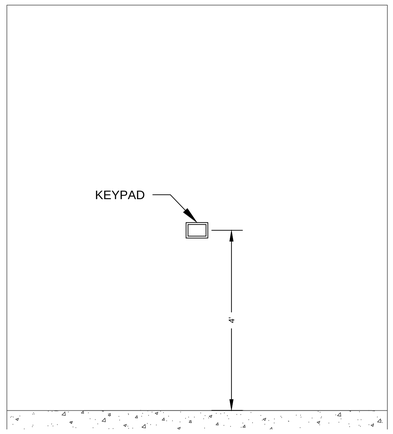
DOME CAMERA -
TYPICAL HARD LID CEILING MOUNT | 2



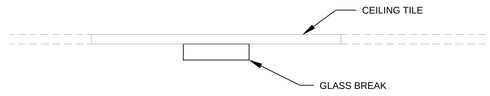
DOME CAMERA -
TYPICAL OPEN CEILING MOUNT | 3



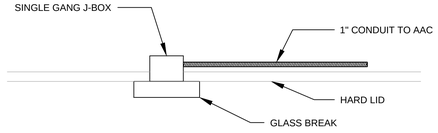
BULLET CAMERA -
TYPICAL WALL MOUNT | 4



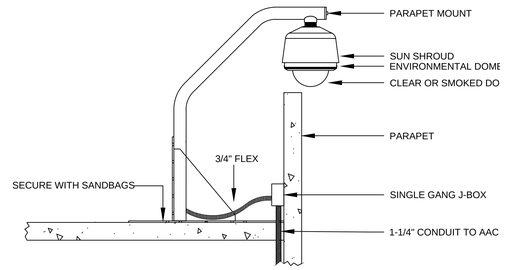
TYPICAL KEYPAD MOUNT | 5



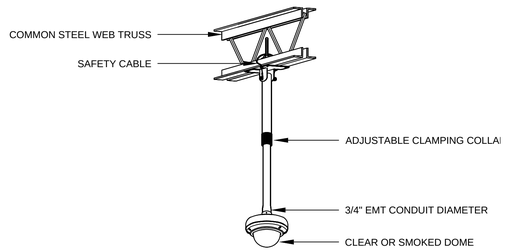
GLASS BREAK -
TYPICAL CEILING TILE MOUNT | 6



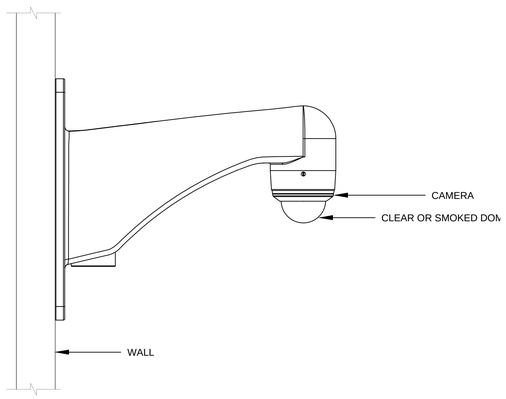
GLASS BREAK -
TYPICAL HARD LID CEILING MOUNT | 7



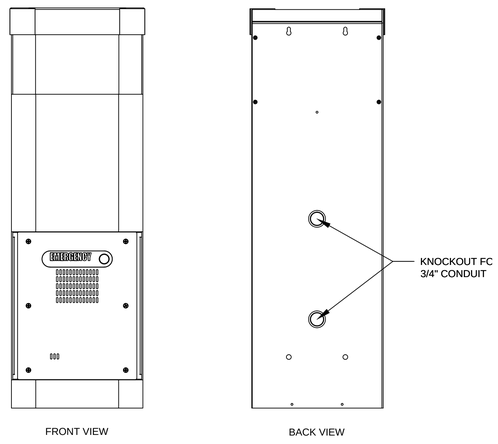
DOME CAMERA -
TYPICAL PARAPET MOUNT | 8



DOME CAMERA - TYPICAL
TELESCOPING POLE BRACKET | 9



DOME CAMERA - TYPICAL SHORT ARM
PENDANT MOUNT BRACKET | 10



EMERGENCY PHONE -
FRONT AND BACK VIEW | 11

12

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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Sheet Title

MOUNTING
DETAILS

Sheet No.
2A-234

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TECHNOLOGY

SHEET INDEX

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TN-212 CP1 2ND FLOOR OVERALL SIGNAL PLAN
TN-221 CP2 1ST FLOOR OVERALL SIGNAL PLAN
TN-222 CP2 2ND FLOOR OVERALL SIGNAL PLAN
TN-223 CP2 3RD FLOOR OVERALL SIGNAL PLAN
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TY-700 MOUNTING DETAILS

GENERAL NOTES

1. THESE PLANS ARE TO BE USED IN ADDITION TO THE ARCHITECTURAL AND ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR FINAL WALL TYPES AND ORIENTATION, ALSO REFER TO THE ELECTRICAL DRAWINGS FOR FINAL POWER RECEPTACLE LOCATIONS.
2. PROVIDE AND INSTALL CATEGORY 6, PLENUM RATED, CABLE ORIGINATING FROM THE DESIGNATED SERVER ROOM AS SHOWN ON THE DRAWINGS.
3. ALL CABLES WILL BE INSTALLED IN ACCORDANCE WITH CURRENT ANSI/TIA/EIA AND BICSI STANDARDS. CABLES WILL ALSO BE INSTALLED IN COMPLIANCE WITH THE CABLE MANUFACTURER'S INSTALLATION RECOMMENDATIONS INCLUDING PULLING TENSION AND CABLE BEND RADIUS.
4. CABLES WILL BE RUN IN THE MOST DIRECT AVAILABLE PATHWAY IN NON-SPLICED SEGMENTS, WITH NO SINGLE RUN EXCEEDING 295 FEET IN LENGTH.
5. EACH CABLE WILL HAVE A 10 FOOT SERVICE LOOP AT THE TR AND A 1 FOOT SERVICE LOOP AT THE WORKSTATION UNLESS OTHERWISE SPECIFIED.
6. CABLES WILL BE RUN IN THE ABOVE-CEILING SPACE AND WILL BE SUSPENDED INDEPENDENTLY FROM OTHER BUILDING SYSTEMS VIA PROVIDED CABLE TRAY PATHWAY AND/OR J-HOOK PATHWAY PROVIDED BY SCC.
7. ADEQUATE DISTANCE ABOVE THE CEILING GRID AND AWAY FROM ELECTRICAL, MECHANICAL, AND PLUMBING SYSTEMS WILL BE MAINTAINED.
8. WALL MOUNTED LOCATIONS WILL BE MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
9. EC TO PROVIDE A SINGLE GANG RING AND STRING FOR EVERY WALL LOCATION UNLESS OTHERWISE NOTED.
10. CABLES WILL BE ROUTED FROM THE ABOVE-CEILING SPACE TO THE WORKSTATION IN PROVIDED CONDUIT PATHWAY. COORDINATE CONDUIT REQUIREMENTS PRIOR TO INSTALLATION. RING AND STRING WITHOUT A CONDUIT FROM THE ABOVE CEILING SPACE TO HARD WALL LOCATIONS WILL BE ACCEPTABLE PROVIDED THE PULL STRING PULLS FREELY AND DOES NOT CROSS ANY STUD EXCEPT A PRE-PENETRATED TOP CAP STUD WITH PROTECTIVE GROMMET.
11. PROVIDE FIRE SEALANT AT ALL FIRE PENETRATIONS.
12. EC TO PROVIDE GROUNDING BUSBARS IN ALL TELECOM ROOM. EACH TELECOM BUSBAR SHALL BE CONNECTED TO THE MAIN BUILDING GROUND. STRUCTURED CABLING CONTRACTOR TO MAKE FINAL GROUND CONNECTION FROM TELECOM BUSBAR TO EQUIPMENT.
13. ALL GANG MUD-RINGS PROVIDED BY EC FOR AUDIO/VISUAL INFRASTRUCTURE ARE REQUIRED TO HAVE SHARP CORNERS. NO MUD-RINGS WITH ROUNDED CORNERS WILL BE AUTHORIZED.

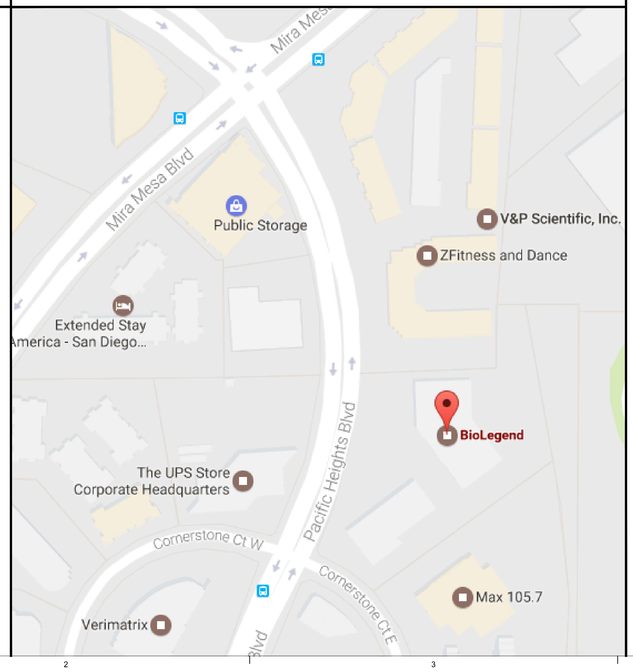
TECHNOLOGY SYMBOL LIST

SYMBOL	DESCRIPTION	CABLES	JACK COLORS	FACEPLATE	MOUNTING AFF (UON)	INFRASTRUCTURE PROVIDED BY OTHERS	COMMENTS
WP	WALL PHONE LOCATION	(2) BLUE CAT6 CABLES	(2) WHITE	2-PORT FACEPLATE	48"	1-GANG RING AND STRING 1-GANG RING AND STRING	
TM	TEMPERATURE MONITOR SENSOR	(1) WHITE 22/4 WIRE	(1) WHITE	1-PORT FACEPLATE	WIREMOLD	1-GANG RING AND STRING	
2	2 CABLE WALL LOCATION	(2) BLUE CAT6 CABLES	(2) WHITE	2-PORT FACEPLATE	18"	1-GANG RING AND STRING	
2	2 CABLE FLOOR LOCATION	(2) BLUE CAT6 CABLES	(2) WHITE (2) BLANK	4-PORT 106 ADAPTER	FLOOR	ELEC/DATA FLOOR BOX WITH 1-1/4" CO. TO AAC	
1	1 CABLE CEILING LOCATION	(1) BLUE CAT6 CABLE	(2) WHITE (2) BLANK	4-PORT 106 ADAPTER	FLOOR	ELEC/DATA FLOOR BOX WITH 1-1/4" CO. TO AAC	
2	2 CABLE FURNITURE LOCATION	(2) BLUE CAT6 CABLES	(2) WHITE (2) BLANK	4-PORT FURN PLATE	KICK PLATE	1-1/4" FURNITURE FEED OR POWER POLE	FEED LOCATIONS SHOULD BE LOCATED ON IDF SIDE
	WIRELESS ACCESS POINT	(1) BLUE CAT6 CABLE	(1) WHITE	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	COILED ADDITIONAL 20' SERVICE LOOP
X	COILED CABLES	(X) BLUE CAT6 CABLE	(1) WHITE	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	COILED ADDITIONAL 20' SERVICE LOOP
EP / EP	ANALOG LINE	(1) BLUE CAT6 CABLE	(1) WHITE	1-PORT FACEPLATE WITH MOUNT LUGS	48"	1-GANG RING AND STRING	
	IP CAMERA	(1) BLUE CAT6 CABLE	(1) WHITE (1) BLANK	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	INFRASTRUCTURE ONLY NEEDED IF LOCATED IN INACCESSIBLE AREA
	EXISTING IP CAMERA	(1) BLUE CAT6 CABLE	(1) WHITE (1) BLANK	2-PORT SURFACE MOUNT BOX	CEILING	1-GANG RING AND STRING	INFRASTRUCTURE ONLY NEEDED IF LOCATED IN INACCESSIBLE AREA
HCR	CARD READER	(1) COMPOSITE CABLE			46"	1" CONDUIT TO AAC	SEE DETAIL SHEETS FOR MORE INFORMATION
C	CONTACT	(1) 22/4 WIRE			ABOVE OPENING	AS REQUIRED	

ABBREVIATIONS

AAC - ABOVE ACCESSIBLE CEILING
AFF - ABOVE FINISHED FLOOR
AVC - AUDIO VISUAL CONTRACTOR
CL - CENTER LINE
DIA - DIAMETER
DIM - DIMENSION
DR - DOOR
(E) - EXISTING
EC - ELECTRICAL CONTRACTOR
E.C. - EMPTY CONDUIT
EL - ELEVATION
ELEC - ELECTRICAL
EQ - EQUAL
FL - FLOOR LEVEL
FUT - FUTURE
GC - GENERAL CONTRACTOR
MISC - MISCELLANEOUS
NIC - NOT IN CONTRACT
NTS - NOT TO SCALE
OC - ON CENTER
OD - OUTER DIAMETER
OFCI - OWNER FURNISHED, CONTRACTOR INSTALLED
OFE - OWNER FURNISHED EQUIPMENT
OFOI - OWNER FURNISHED, OWNER INSTALLED
RCP - REFLECTED CEILING PLAN
SCC - STRUCTURED CABLING CONTRACTOR
SECT - SECTION
TBD - TO BE DETERMINED
TYP - TYPICAL
UON - UNLESS OTHERWISE NOTED
VIF - VERIFY IN FIELD

VICINITY MAP



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GENE THEORY - CP-2

1450 VETERANS BLVD
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08.08.17

Sheet Title
UNNAMED - TITLE SHEET

Sheet No.
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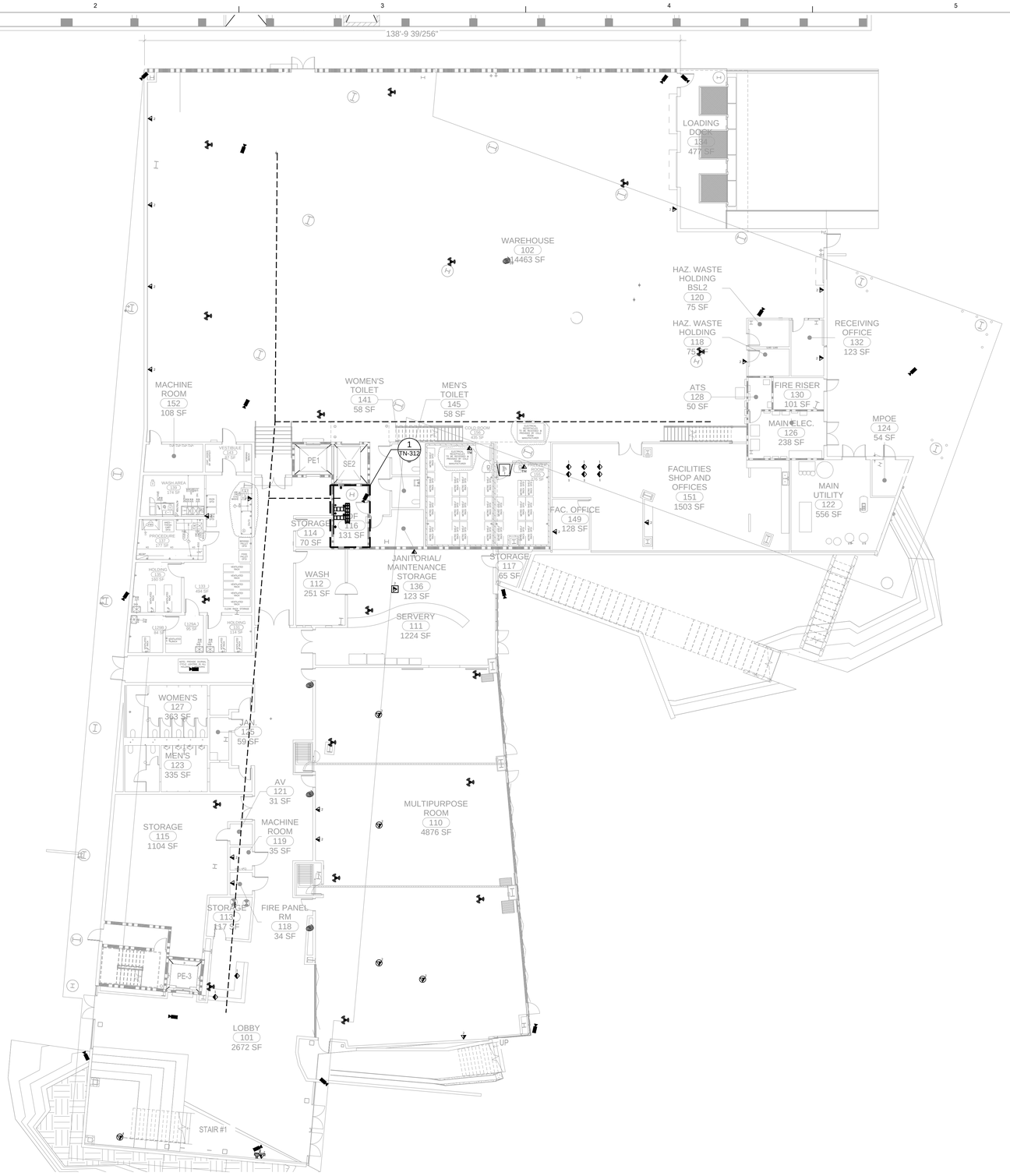

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6. SEE SHEET TN-600 FOR FACEPLATE DETAILS.
7. CABLE PATHWAYS ARE REPRESENTED BY THE THICK DASHED LINE, THEY ARE SHOWN FOR REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED.

KEY NOTES:

1. SERVER ROOM, SEE PAGE TN-312 FOR ENLARGED VIEW
2. (2) 4" CONDUITS FOR HORIZONTAL CABLE PASS THRU

CP2 1ST FLOOR OVERALL SIGNAL PLAN

SCALE: 10' 20'

1

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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CITY SUBMITTAL SET
08.08.17

Sheet Title

1ST FLOOR OVERALL SIGNAL PLAN

Sheet No.

2TN-210

DPR Issued Sheet 2017-08-08
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KEY NOTES:

1. IDF, SEE PAGE TN-322 FOR ENLARGED VIEW
2. (2) 4" CONDUITS FOR HORIZONTAL CABLE PASS THRU

CP2 2ND FLOOR OVERALL SIGNAL PLAN

SCALE: 10' 20'

1

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

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CITY SUBMITTAL SET
08.08.17

Sheet Title

2ND FLOOR OVERALL SIGNAL PLAN

Sheet No.

2TN-220

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KEY NOTES:

1. MDF, SEE PAGE TN-313 FOR ENLARGED VIEW
2. (2) 4" CONDUITS FOR HORIZONTAL CABLE PASS THRU

CP2 3RD FLOOR OVERALL SIGNAL PLAN

SCALE: 10' 20'

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GENE THEORY - CP-2

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CITY SUBMITTAL SET
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Sheet Title

3RD FLOOR OVERALL SIGNAL PLAN

Sheet No.

2TN-230

DPR Issued Sheet 2017-08-08
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KEY NOTES:

1. IDF, SEE PAGE TN-314 FOR ENLARGED VIEW
2. (2) 4" CONDUITS FOR HORIZONTAL CABLE PASS THRU

CP2 4TH FLOOR OVERALL SIGNAL PLAN

SCALE: 10' 20'

1

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
	04.25.17	DESIGN DEVELOPMENT
	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

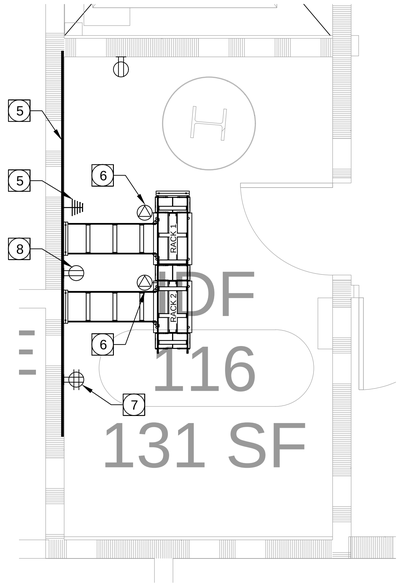
4TH FLOOR OVERALL SIGNAL PLAN

Sheet No.

2TN-240

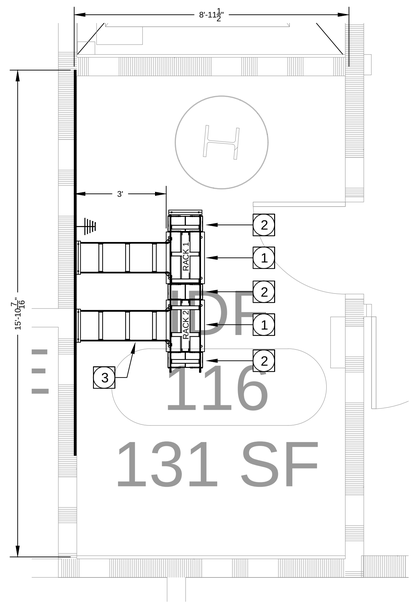
DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/28/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



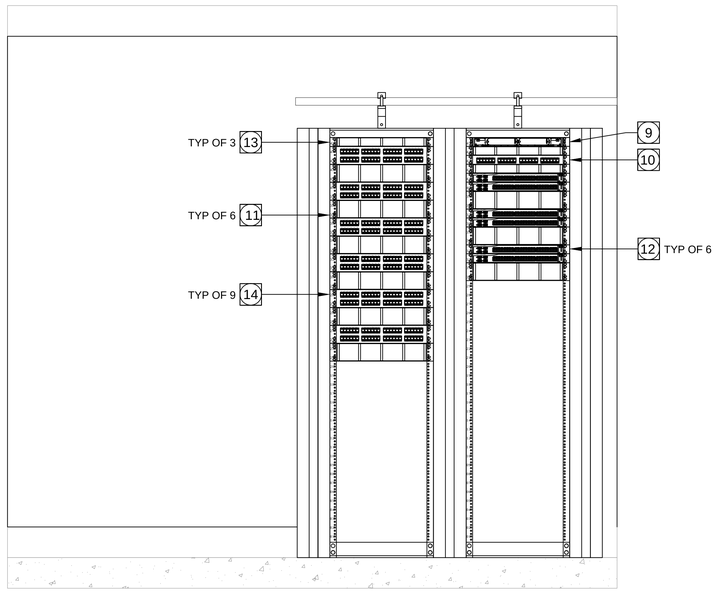
CP2 1ST FLOOR IDF ROOM 116 - PLAN VIEW
INFRASTRUCTURE REQUIREMENTS
SCALE: 1/2"=1'-0" @ 42"X30"

1



CP2 1ST FLOOR IDF ROOM 116 - PLAN VIEW
EQUIPMENT LAYOUT
SCALE: 1/2"=1'-0" @ 42"X30"

2



CP2 1ST FLOOR IDF ROOM 116 - ELEVATION VIEW
FRONT OF RACK AND CABINET
SCALE: 1"=1'-0" @ 42"X30"

3

KEY NOTES:

1. 2-POST 7'H STANDARD EQUIPMENT RACK
2. 7'H x 6"W DOUBLE SIDED VERTICAL CABLE MANAGER
3. 12" LADDER RACK MOUNTED @ 7'-6" AFF USING 6" ELEVATION KIT ABOVE 2-POST RACK AND 12" ELEVATION KIT ABOVE CABINET
4. GROUNDING BUSBAR (PROVIDED BY EC).
5. ¾" FIRE RATED PLYWOOD BACKBOARD (PROVIDED BY GC)
6. SPECIALTY OUTLET CONNECTED TO EMERGENCY POWER. OUTLET TO MOUNTED TO LADDER RACK AND PROVIDED BY THE EC.
7. DEDICATED 5-20 QUAD RECEPTACLE FOR SECURITY EQUIPMENT MOUNTED AT 48" AFF (PROVIDED BY EC)
8. 5-20 DUPLEX RECEPTACLE FOR CONVENIENCE 18" AFF (PROVIDED BY EC)
9. 1U FIBER ENCLOSURE FOR FIBER BACKBONE FROM CP1 MDF ON 1ST FLOOR
10. 1U, 24-PORT PATCH PANEL FOR 25-PAIR COPPER MULTI-PAIRCABLE FOR VOICE BACKBONE. CABLE TO BE TERMINATED 1 PAIR PER PORT USING PINS 4 & 5
11. 2U, 48-PORT PATCH PANEL FOR STATION CABLING
12. CUSTOMER PROVIDED NETWORK SWITCHES
13. 1U, HORIZONTAL WIRE MANAGER
14. 2U, HORIZONTAL WIRE MANAGER

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
1ST FLOOR
IDF ROOM 116

Sheet No.

2TN-310

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

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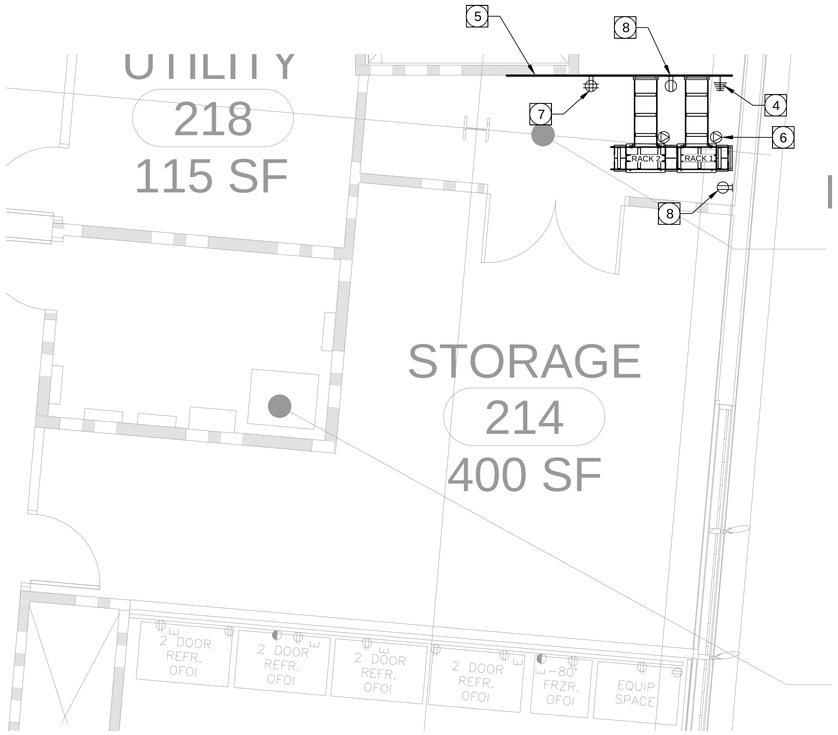
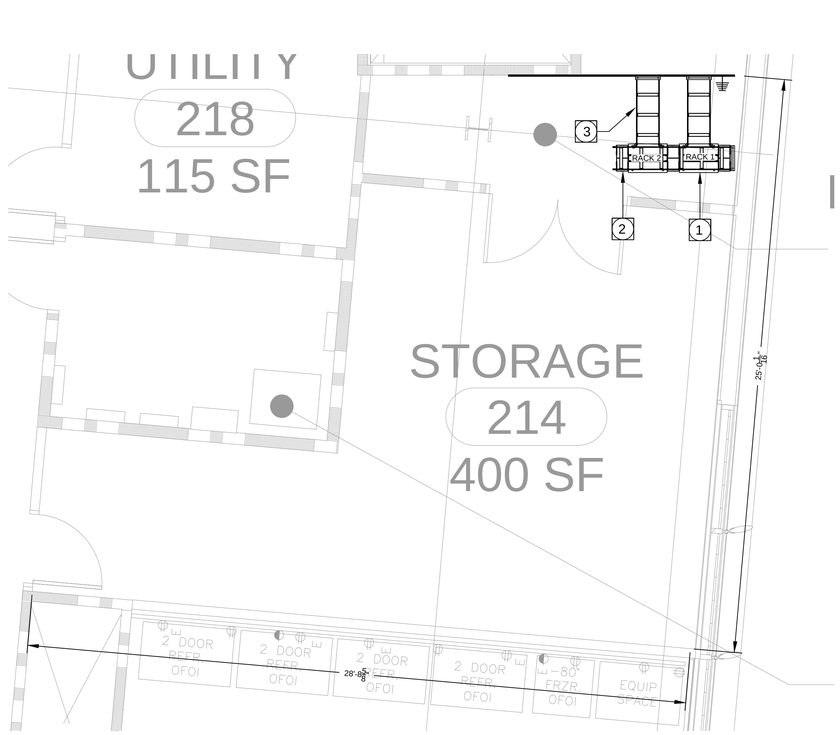


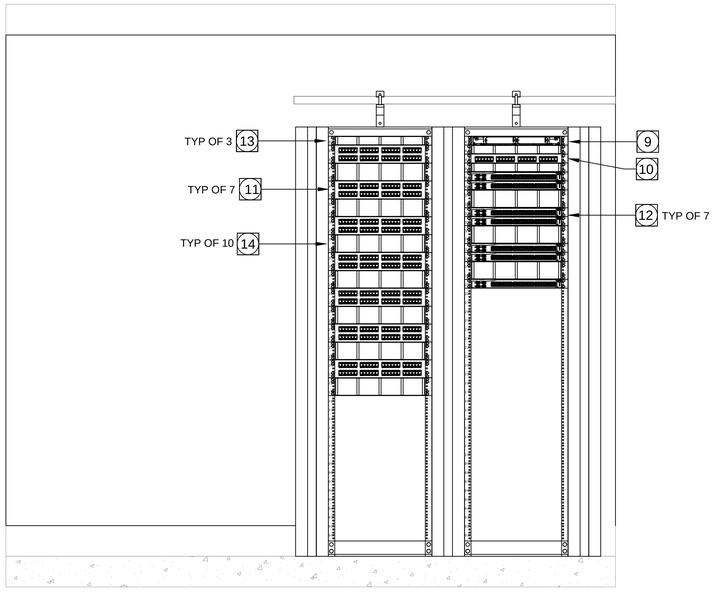
CP2 2ND FLOOR IDF ROOM 214 - PLAN VIEW
INFRASTRUCTURE REQUIREMENTS
SCALE: 3/8"=1'-0" @ 42"X30"

1



CP2 2ND FLOOR IDF ROOM 214 - PLAN VIEW
EQUIPMENT LAYOUT
SCALE: 3/8"=1'-0" @ 42"X30"

2



CP2 2ND FLOOR IDF ROOM 214- ELEVATION VIEW
FRONT OF RACK AND CABINET
SCALE: 1"=1'-0" @ 42"X30"

3

KEY NOTES:

1. 2-POST 7'H STANDARD EQUIPMENT RACK
2. 7'H x 6"W DOUBLE SIDED VERTICAL CABLE MANAGER
3. 12" LADDER RACK MOUNTED @ 7'-6" AFF USING 6" ELEVATION KIT ABOVE 2-POST RACK AND 12" ELEVATION KIT ABOVE CABINET
4. GROUNDING BUSBAR (PROVIDED BY EC).
5. ¾" FIRE RATED PLYWOOD BACKBOARD (PROVIDED BY GC)
6. SPECIALTY OUTLET CONNECTED TO EMERGENCY POWER. OUTLET TO MOUNTED TO LADDER RACK AND PROVIDED BY THE EC.
7. DEDICATED 5-20 QUAD RECEPTACLE FOR SECURITY EQUIPMENT MOUNTED AT 48" AFF (PROVIDED BY EC)
8. 5-20 DUPLEX RECEPTACLE FOR CONVENIENCE 18" AFF (PROVIDED BY EC)
9. 1U FIBER ENCLOSURE FOR FIBER BACKBONE FROM CP2 SERVER ROOM ON 3RD FLOOR
10. 1U, 24-PORT PATCH PANEL FOR 25-PAIR COPPER MULTI-PAIRCABLE FOR VOICE BACKBONE. CABLE TO BE TERMINATED 1 PAIR PER PORT USING PINS 4 & 5
11. 2U, 48-PORT PATCH PANEL FOR STATION CABLING
12. CUSTOMER PROVIDED NETWORK SWITCHES
13. 1U, HORIZONTAL WIRE MANAGER
14. 2U, HORIZONTAL WIRE MANAGER

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.

GENE THEORY - CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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	08.08.17	CITY SUBMITTAL SET

CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED 2ND FLOOR IDF ROOM 214

Sheet No.

2TN-320

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

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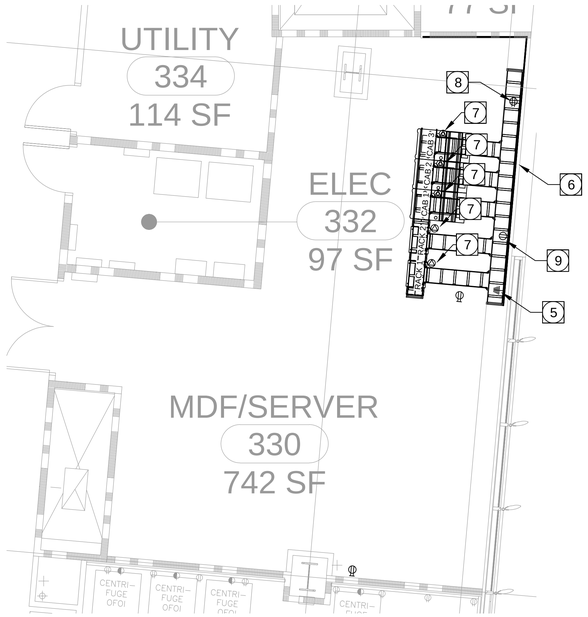
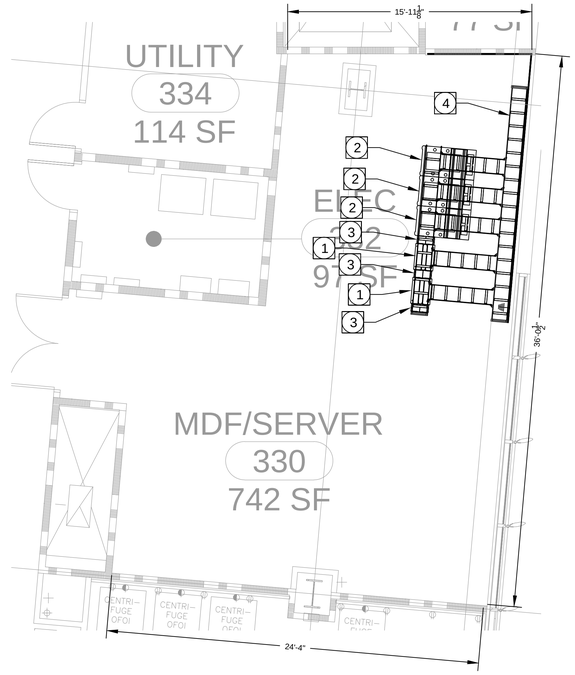
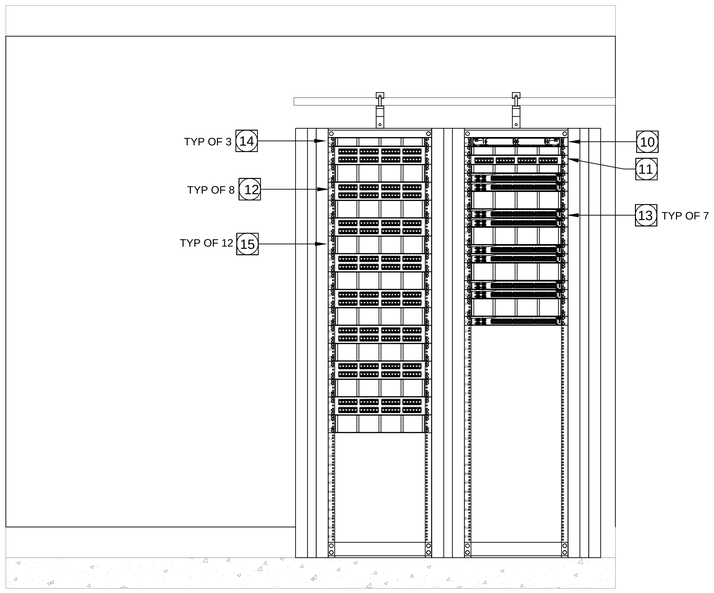


CP2 3RD FLOOR MDF ROOM 330 - PLAN VIEW
INFRASTRUCTURE REQUIREMENTS
SCALE: 1/4"=1'-0" @ 42"X30"
1



CP2 3RD FLOOR MDF ROOM 330 - PLAN VIEW
EQUIPMENT LAYOUT
SCALE: 1/4"=1'-0" @ 42"X30"
2



CP2 3RD FLOOR MDF ROOM 330 - ELEVATION VIEW
FRONT OF RACK AND CABINET
SCALE: 1"=1'-0" @ 42"X30"
3

KEY NOTES:

1. 2-POST 7'H STANDARD EQUIPMENT RACK
2. 42RU x 24"W x 42"D APC CABINET, PART # AR3100
3. 7'H x 6"W DOUBLE SIDED VERTICAL CABLE MANAGER
4. 12" LADDER RACK MOUNTED @ 7'-6" AFF USING 6" ELEVATION KIT ABOVE 2-POST RACK AND 12" ELEVATION KIT ABOVE CABINET
5. GROUNDING BUSBAR (PROVIDED BY EC).
6. ¾" FIRE RATED PLYWOOD BACKBOARD (PROVIDED BY GC)
7. SPECIALTY OUTLET CONNECTED TO EMERGENCY POWER. OUTLET TO MOUNTED TO LADDER RACK AND PROVIDED BY THE EC.
8. DEDICATED 5-20 QUAD RECEPTACLE FOR SECURITY EQUIPMENT MOUNTED AT 48" AFF (PROVIDED BY EC)
9. 5-20 DUPLEX RECEPTACLE FOR CONVENIENCE 18" AFF (PROVIDED BY EC)
10. 1U FIBER ENCLOSURE FOR FIBER BACKBONE FROM CP2 SERVER ROOM ON 3RD FLOOR
11. 1U, 24-PORT PATCH PANEL FOR 25-PAIR COPPER MULTI-PAIRCABLE FOR VOICE BACKBONE. CABLE TO BE TERMINATED 1 PAIR PER PORT USING PINS 4 & 5
12. 2U, 48-PORT PATCH PANEL FOR STATION CABLING
13. CUSTOMER PROVIDED NETWORK SWITCHES
14. 1U, HORIZONTAL WIRE MANAGER
15. 2U, HORIZONTAL WIRE MANAGER

GENERAL NOTES:

1. ALL CONDUITS, BACK BOXES AND ELECTRICAL REQUIREMENTS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL CONDUITS WILL FOLLOW BICSI T-569 STANDARDS.
3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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	08.08.17	CITY SUBMITTAL SET

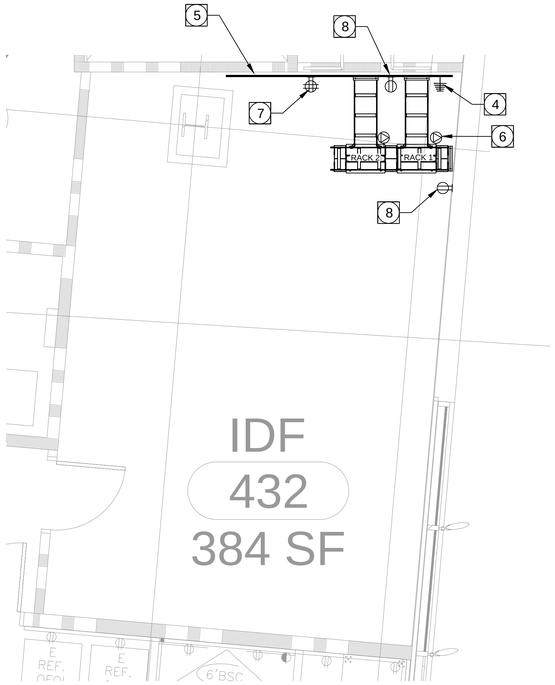
CITY SUBMITTAL SET
08.08.17

Sheet Title
ENLARGED
3RD FLOOR
MDF ROOM 330

Sheet No.
2TN-330

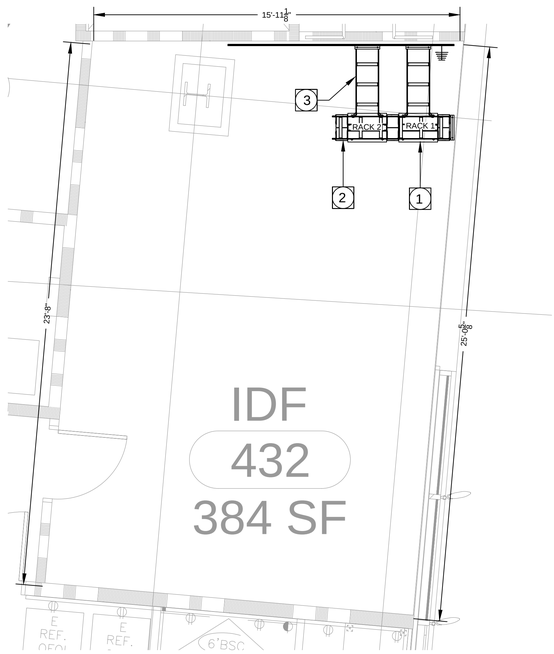
DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

7/28/2017 4:14:23 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



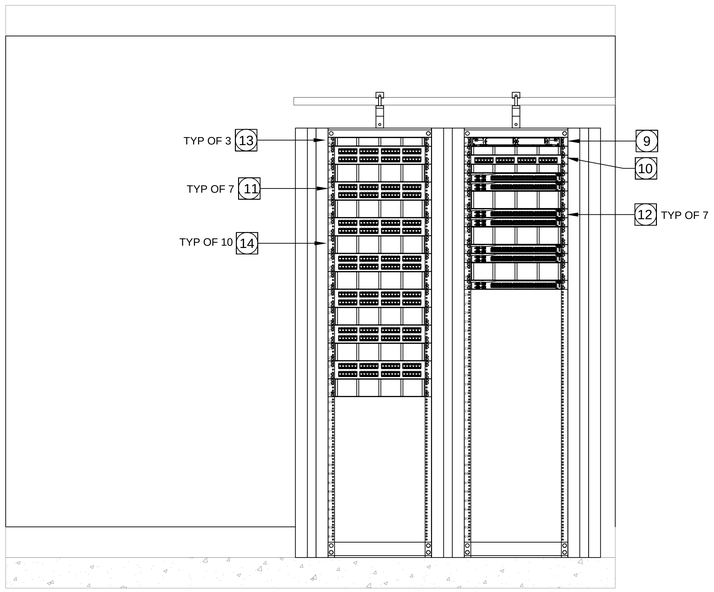
CP2 4TH FLOOR IDF ROOM 432 - PLAN VIEW
INFRASTRUCTURE REQUIREMENTS
SCALE: 3/8"=1'-0" @ 42"X30"

1



CP2 4TH FLOOR IDF ROOM 432 - PLAN VIEW
EQUIPMENT LAYOUT
SCALE: 3/8"=1'-0" @ 42"X30"

2



CP2 4TH FLOOR IDF ROOM 432- ELEVATION VIEW
FRONT OF RACK AND CABINET
SCALE: 1"=1'-0" @ 42"X30"

3

KEY NOTES:

1. 2-POST 7'H STANDARD EQUIPMENT RACK
2. 7'H x 6"W DOUBLE SIDED VERTICAL CABLE MANAGER
3. 12" LADDER RACK MOUNTED @ 7'-6" AFF USING 6" ELEVATION KIT ABOVE 2-POST RACK AND 12" ELEVATION KIT ABOVE CABINET
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10. 1U, 24-PORT PATCH PANEL FOR 25-PAIR COPPER MULTI-PAIRCABLE FOR VOICE BACKBONE. CABLE TO BE TERMINATED 1 PAIR PER PORT USING PINS 4 & 5
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GENERAL NOTES:

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3. ALL MOUNTING HEIGHTS SHALL BE FIELD VERIFIED BEFORE INSTALLING.

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

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CITY SUBMITTAL SET
08.08.17

Sheet Title

ENLARGED
4TH FLOOR
IDF ROOM 432

Sheet No.

2TN-340

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002

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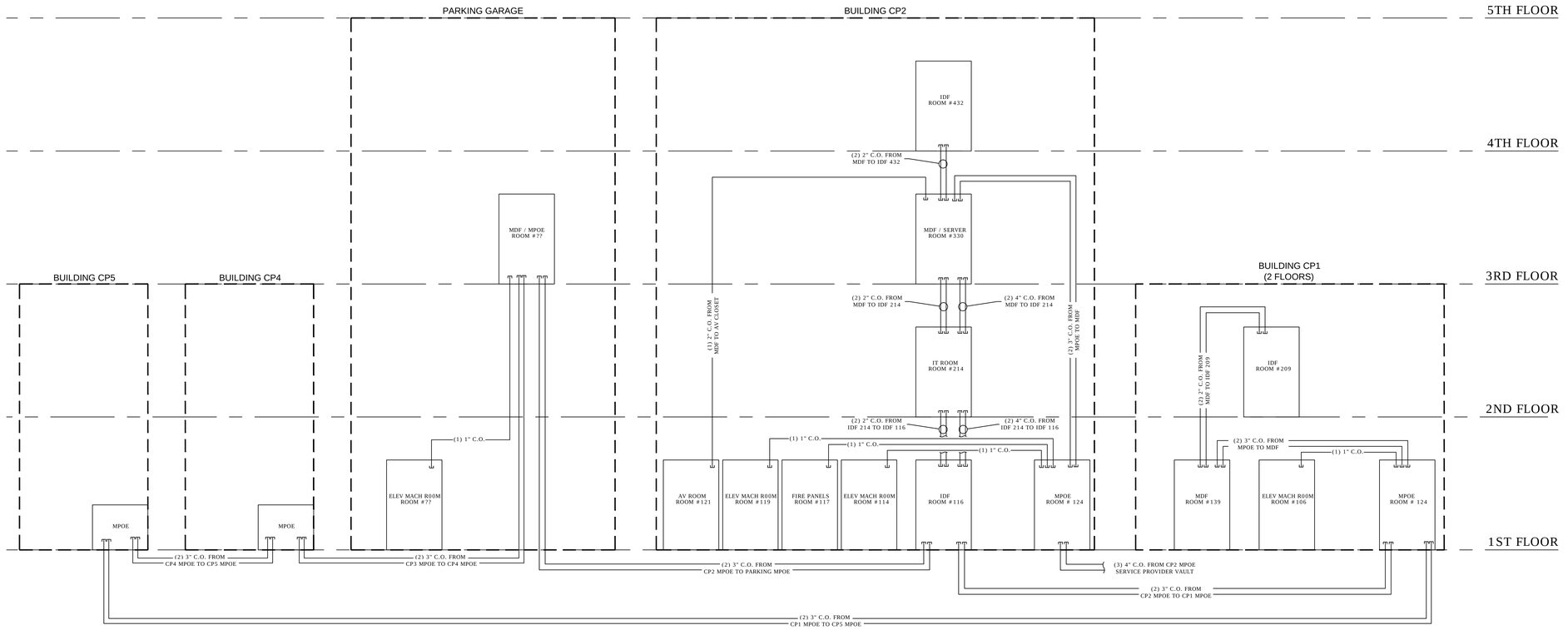

SINGLE LINE DIAGRAM
CONDUIT BACKBONE

1

GENERAL NOTES:

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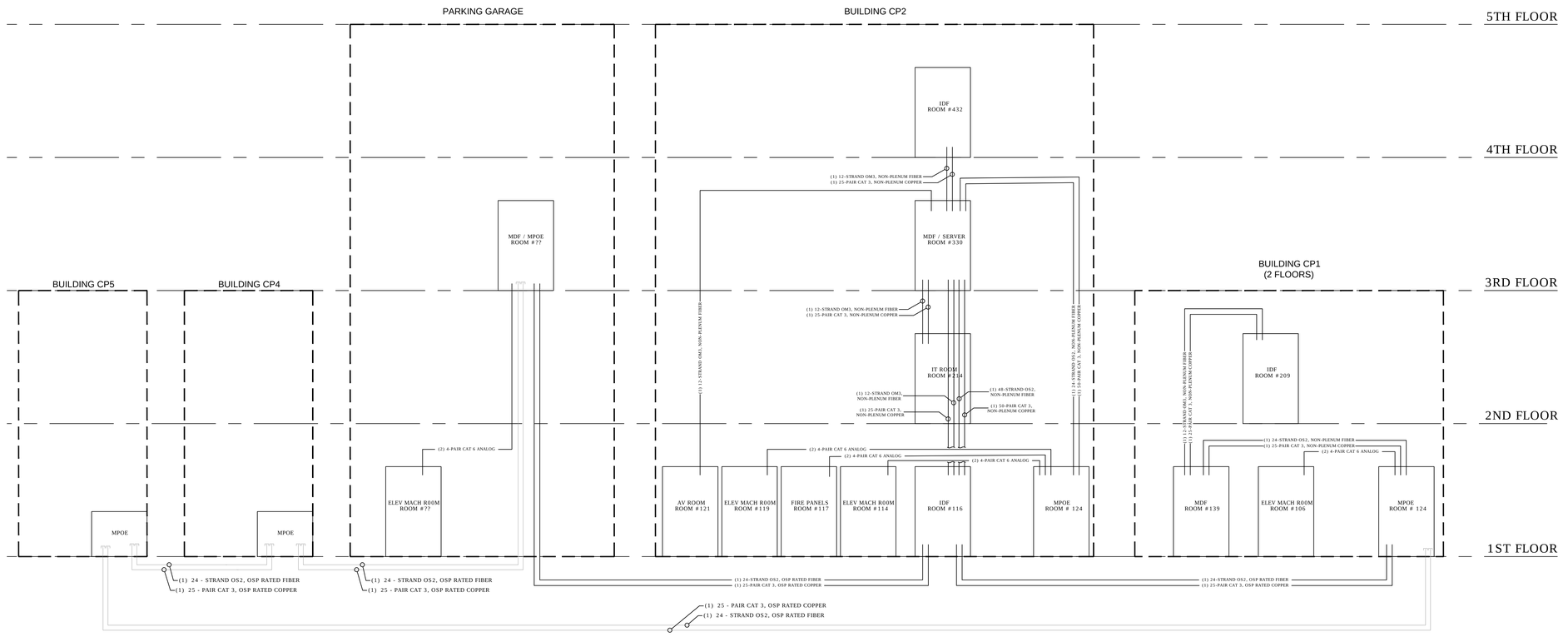

SINGLE LINE DIAGRAM
FIBER AND COPPER BACKBONE

2

GENE THEORY -
CP-2

1450 VETERANS BLVD
REDWOOD CITY, CA 94063

PROJECT NO. 16148

REV NO.	DATE ISSUED	REASON
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CITY SUBMITTAL SET
08.08.17

Sheet Title

BACKBONE
SINGLE LINE

Sheet No.

2TN-500

DPR Issued Sheet 2017-08-08
Link to the Sheet - 2G-002