2/23/2024 5:26:19 PM

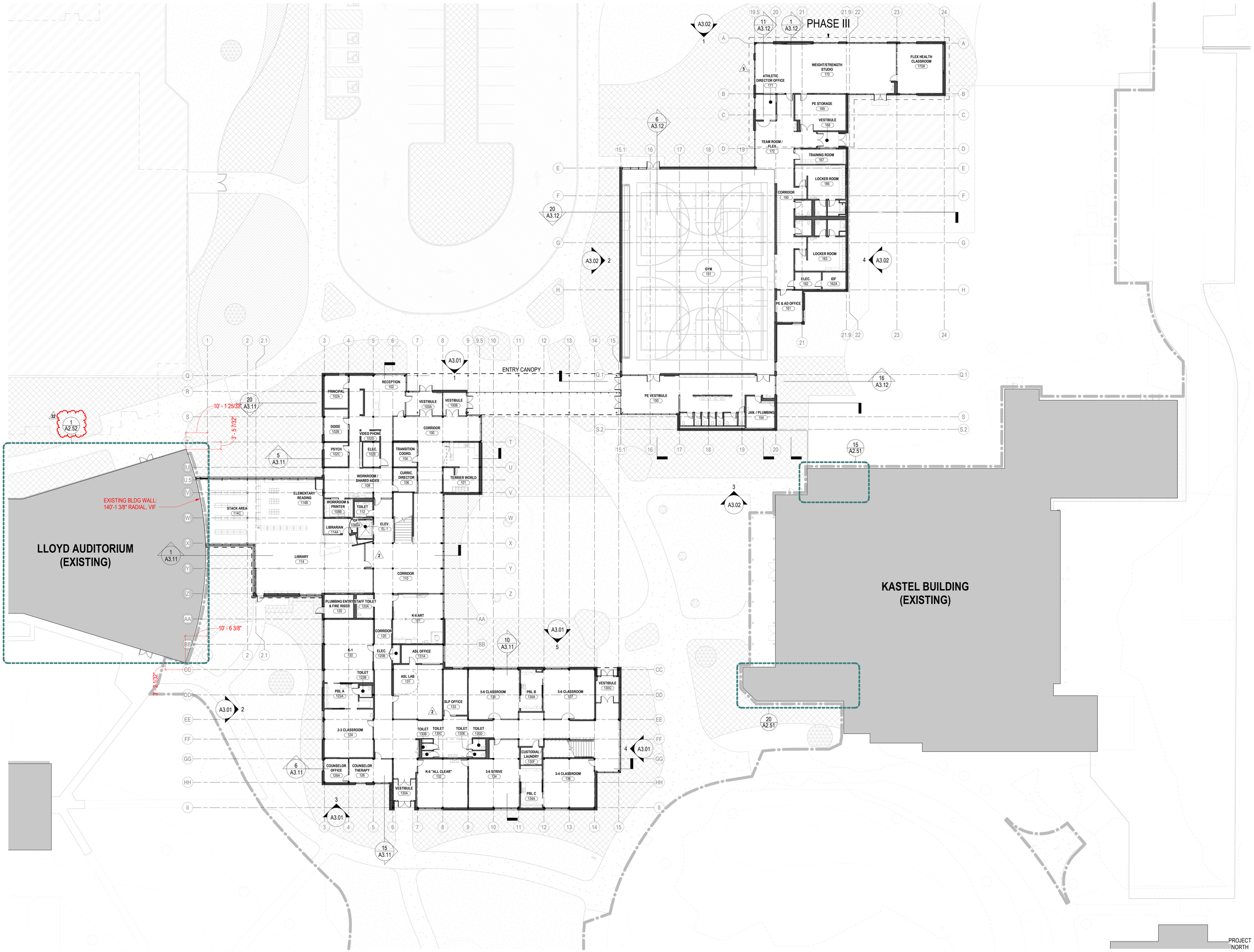
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Your use of the aforementioned media, shall constitute an acceptance of the above.



1 OVERALL LEVEL 1 FLOOR PLAN
1/16" = 1'-0"

MITHUN

SEATTLE / Pier 56, 1201 Alaskan Way, #200
Seattle, WA 98101 / 206.623.3344

SAN FRANCISCO / 660 Market Street, #300
San Francisco, CA 94104 / 415.956.0688

LOS ANGELES / 5837 Adams Blvd
Culver City, CA 90232 / 323.937.2150

mithun.com

SKANSKA

PORTLAND / 1010 NW Flanders St, #500
Portland, OR 97209 / 503.382.0900

usa.skanska.com

PROJECT
CDHY - ACADEMIC & PHYSICAL EDUCATION BUILDING

LOCATION
611 GRAND BLVD VANCOUVER, WA 98661

PREPARED FOR
CENTER FOR DEAF AND HARD OF HEARING YOUTH (CDHY)

DES PROJECT NO.
2018-713

WASHINGTON SCHOOL FOR THE DEAF

KEYMAP

NO.	DATE	REVISION
1	06/23/2023	95% CONSTRUCTION DOCUMENTS
2	07/06/2023	ADDENDUM #1
5	08/23/2023	PROPOSAL REQUEST #1
22	02/23/2024	PROPOSAL REQUEST #19
A	05/26/2023	PERMIT RESUBMISSION 01

DESIGN PARTNER
BC
PROJECT MANAGER
SK
PROJECT ARCHITECT
CH
PROJECT DESIGNER
JW
PROJECT TEAM MEMBERS
MH, SA
CHECK
PC
ARCHITECT SEAL

TITLE
OVERALL LEVEL 1 FLOOR PLAN

PROJECT NO.
2122700
DATE
02/01/2024

SHEET NUMBER
A2.01
PROPOSAL REQUEST #19

© 2024 MITHUN, INC.

ORIGINAL SHEET SIZE 30" x 42"

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BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

SIXTH STREET VIADUCT REPLACEMENT PROJECT
VIADUCT DEMOLITION
FEDERAL PROJECT NO: BRLS2D-5006(811)



CONSTRUCTION MANAGER/ GENERAL CONTRACTOR (CMGC):

SKANSKA Stacy and Witbeck A Joint Venture

SKANSKA STACY & WITBECK
1995 AGUA MANSA ROAD
RIVERSIDE, CA 92509

CONSTRUCTION TASK ORDER PACKAGES:

1. OFFSITE INTERSECTIONS FOR VIADUCT DETOUR
2. VIADUCT DEMOLITION
3. TEST SHAFT
4. NEW VIADUCT FOUNDATIONS
5. NEW VIADUCT

PROGRAM MANAGEMENT CONSULTANT:

CH2MHILL

CH2M-HILL, INC.
1000 WILSHIRE BOULEVARD, SUITE 2100
LOS ANGELES, CA 90017

CONSTRUCTION MANAGEMENT CONSULTANT:

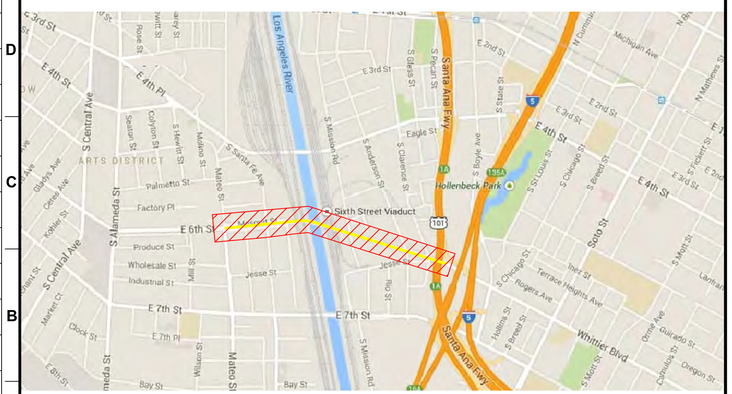
T.Y.LIN INTERNATIONAL

T.Y. LIN INTERNATIONAL
660 S. FIGUEROA STREET, SUITE 1750
LOS ANGELES, CA 90017

FUNDING PARTNERS:

CITY OF LOS ANGELES FOUNDED 1781 · Caltrans CALIFORNIA DEPARTMENT OF TRANSPORTATION · U.S. Department of Transportation Federal Highway Administration

PROJECT TEAM



VICINITY MAP
NOT TO SCALE

CITY OF LOS ANGELES

PROJECT MANAGEMENT: SIXTH STREET VIADUCT DIVISION
- JULIE ALLEN, P.E. — DIVISION MANAGER
- JOHN KOO, S.E. — PROJECT MANAGER
- JIM WU, S.E. — PROJECT ENGINEER

BID AND AWARD: PROJECT AWARD AND CONTROL DIVISION
- JULIE SAUTER, P.E. — PRINCIPAL CIVIL ENGINEER
- JAMES ZABALA — SENIOR MANAGEMENT ANALYST II

REAL ESTATE: REAL ESTATE DIVISION
- URIEL JIMENEZ — DIVISION MANAGER

STREET: STREET IMPROVEMENT DIVISION
- STEVEN CHEN P.E. — ACTING DIVISION MANAGER
- CURTIS TRAN, P.E. — CIVIL ENGINEER

SURVEY: SURVEY DIVISION
- JIM LANTRY, P.L.S. — CHIEF SURVEYOR
- CESAR BREGAUDIT, P.L.S. — SURVEYOR SUPERVISOR
- SHAWN STEVENS, P.L.S. — PARTY CHIEF

STREET LIGHTING: BUREAU OF STREET LIGHTING
- ED EBRAHIMIAN, P.E. — DIRECTOR BUREAU OF STREET LIGHTING
- HAGOP TUJIAN, P.E. — STREET LIGHTING ENGINEER
- DIEP NGUYEN, P.E. — STREET LIGHTING ENGINEER ASSOCIATE. III

TRAFFIC: DEPARTMENT OF TRANSPORTATION
- SELETA REYNOLDS, P.E. — GENERAL MANAGER
- MANOOCHEHR ADHAMI, P.E. — SENIOR TRANSPORTATION ENGINEER
- BEARJ SARKIS, Ph.D, P.E.,P.T.O.E. — TRANSPORTATION ENGINEER/ PROJECT MANAGER

DESIGN CONSULTANTS

PRIME CONSULTANT: HNTB CORPORATION

SUB CONSULTANTS:
- MICHAEL MALTZAN ARCHITECTURE
- VALLE & ASSOCIATES,INC.
- MGE ENGINEERING, INC
- HARGREAVES ASSOCIATES
- EARTH MECHANICS, INC.

REGISTERED PROFESSIONAL ENGINEER VICTOR J. MARTINEZ No. C_35081 CIVIL STATE OF CALIFORNIA Expires 9-30-2015

HNTB
HNTB Corporation
601 W. 5TH STREET SUITE 1000
LOS ANGELES, CALIFORNIA 90071
TEL (213) 403-1000 FAX (213) 403-1001

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REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0
12/14/2015

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

ENGINEERING CITY OF LOS ANGELES

NO.	REVISIONS:	DATE	BY:

SERIAL NO.
WORK ACCEPTED
STRUCTURE NO.
INDEX NO. D-34619

REGISTERED PROFESSIONAL ENGINEER GARY LEE MOORE No. C-48446 CIVIL STATE OF CALIFORNIA

GARY LEE MOORE, P.E. CITY ENGINEER — DATE
ACCEPTED BY:
DEPUTY CITY ENGINEER / PROGRAM MANAGER — DATE 8-21-2015
CITY ENGINEER — DATE

VERTICAL CONTROL: BM 14-00870, 2000 ADJ NAVD 1988
HORIZONTAL CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: COVER SHEET
PROJECT: SIXTH STREET VIADUCT REPLACEMENT
ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA.

WORK ORDER NO. E700227F
DRAWING NO. T-201
SHEET 1 OF 52 SHEETS

SHT.	DRAWING NO.	DRAWING TITLE
		GENERAL
1	T-201	TITLE SHEET
2	G-201	INDEX OF PLANS
3	G-202	NOTICE TO CONTRACTORS SHEET 1
4	G-203	NOTICE TO CONTRACTORS SHEET 2
5	G-204	KEY MAP
6	G-205	ABBREVIATIONS & SYMBOLS SHEET 1
7	G-206	ABBREVIATIONS & SYMBOLS SHEET 2
8	G-207	ABBREVIATIONS & SYMBOLS SHEET 3
9	G-208	ABBREVIATIONS & SYMBOLS SHEET 4
10	G-209	CONSTRUCTION SYMBOLS AND NOTES
11	G-210	RAILROAD GENERAL NOTES
12	G-211	RAILROAD GENERAL NOTES
		TRAFFIC HANDLING
13	TH-201	WORKSITE TRAFFIC CONTROL - NOTES AND LEGEND
14	DET-201	OVERALL DETOUR MAP
15	TH-202	WORKSITE TRAFFIC CONTROL - WHITTIER BLVD.
16	TH-203	WORKSITE TRAFFIC CONTROL - MISSION RD.
17	TH-204	WORKSITE TRAFFIC CONTROL - ANDERSON ST.
18	TH-205	WORKSITE TRAFFIC CONTROL - JESSE ST. & CLARENCE ST.
19	TH-206	WORKSITE TRAFFIC CONTROL - SANTA FE.
		STREET LIGHTING
20	BSLD-100	STREET LIGHTING DEMOLITION NOTICE TO CONTRACTOR
21	BSLD-101	STREET LIGHTING DEMOLITION
22	BSLD-102	STREET LIGHTING DEMOLITION
		STRUCTURAL DEMOLITION
23	S-201	GENERAL PLAN
24	S-202	DEMOLITION PLAN NO. 1
25	S-203	DEMOLITION PLAN NO. 2
26	S-204	DEMOLITION PLAN NO. 3
27	S-205	DEMOLITION PLAN NO. 4
28	S-206	DEMOLITION PLAN NO. 5
29	S-207	DEMOLITION PLAN NO. 6
30	S-208	DEMOLITION PLAN NO. 7
31	S-209	TYPICAL SECTIONS NO. 1
32	S-210	TYPICAL SECTIONS NO. 2
33	S-211	TYPICAL SECTIONS NO. 3
34	S-212	TYPICAL SECTIONS NO. 4
35	S-213	TYPICAL SECTIONS NO. 5
36	S-214	TYPICAL SECTIONS NO. 6
37	S-215	TYPICAL SECTIONS NO. 7
38	S-216	LABSS FACILITY

SHT.	DRAWING NO.	DRAWING TITLE
		CALTRANS
39	T-1	CALTRANS TITLE SHEET
40	X-1	TYPICAL CROSS SECTION
41	L-1	LAYOUT SHEET
42	TWPC-1	TEMPORARY WATER POLLUTION CONTROL
43	SC-1	STAGE CONSTRUCTION PLAN
44	THD-1	TRAFFIC HANDLING DETAILS
45	THD-2	TRAFFIC HANDLING DETAILS
46	THD-3	TRAFFIC HANDLING DETAILS
47	THD-4	TRAFFIC HANDLING DETAILS
49	THD-5	TRAFFIC HANDLING DETAILS
		CALTRANS STRUCTURAL
49	S-220	GENERAL SHEET
50	S-221	DEMOLITION PLAN NO. 1
51	S-222	TYPICAL SECTION NO. 1
52	S-223	TYPICAL SECTION NO. 2

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Sheet Version 3.0
12/14/2015

HNTB
HNTB Corporation
601 W. 5TH STREET SUITE 1000
LOS ANGELES, CALIFORNIA 90071
TEL (213) 403-1000 FAX (213) 403-1001

BUREAU OF ENGINEERING
OFFICIAL RECORD

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE	BY:

STRUCTURE NO.

INDEX NO. D-34619

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
TAYLOR J. HENDERSON
No. 81237
Exp. 9/30/15
CIVIL

CITY ENGINEER
GARY LEE MOORE, P.E.

DESIGN GROUP

ENGINEER:	TAYLOR HENDERSON	LIC. NO. 81237	DATE:
DESIGNED BY:	TAYLOR HENDERSON		
DRAWN BY:	TAYLOR HENDERSON		
CHECKED BY:	TERENCE PAO		
APPROVED BY:	TERENCE PAO		

VERTICAL CONTROL: BM 12-04070 1929 (NGVD 29) - 1985 ADJUSTMENT
HORIZONTAL CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: INDEX TO SHEETS

PROJECT: SIXTH STREET VIADUCT REPLACEMENT

ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD)
LOS ANGELES, CA

WORK ORDER NO.
E700227F

DRAWING NO.
G-201

SHEET 2 OF SHEETS

NOTICE TO CONTRACTORS

1. SPECIFICATIONS: ALL WORK SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF "THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREENBOOK), AND THE CORRESPONDING "ADDITIONS AND AMENDMENTS TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR THE PUBLIC WORKS CONSTRUCTION" (BROWN BOOK) AND THE CITY STANDARD PLANS.
2. THIS IMPROVEMENT CONSISTS OF WORK CALLED FOR ONLY ON THIS PLAN.
3. INSPECTION: ALL PUBLIC WORKS CONSTRUCTION AND MATERIAL ARE SUBJECT TO INSPECTION, BY THE CITY OF LOS ANGELES PURSUANT TO SECTION 2-11 OF THE CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS (BROWN BOOK), CALL (213) 485-5080 BEFORE NOON OF THE WORKING DAY, BEFORE THE INSPECTION IS REQUIRED.
4. SURVEY MONUMENT PRESERVATION IS REQUIRED. CONTRACTOR TO WORK WITH LOS ANGELES CITY SURVEY TO ENSURE MONUMENT PRESERVATION.
5. NOTIFICATION:
   AT LEAST TEN (10) DAYS BEFORE THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY, IN WRITING, ABUTTING PROPERTY OCCUPANTS OF THE PROPOSED CONSTRUCTION START DATE. A COPY OF SAID WRITTEN NOTIFICATION SHALL BE PROVIDED TO THE INSPECTOR FOR APPROVAL BEFORE THEY ARE DISTRIBUTED TO THE OCCUPANTS OF THE ABUTTING PROPERTY.
6. THE CONTRACTOR SHALL WORK WITH LOS ANGELES CITY SURVEY TO REESTABLISH ALL PERTINENT SURVEY MARKERS AS PER SSPWC 2-9.1.
7. THE CONTRACTOR SHALL PROVIDE AN ALTERNATIVE ACCESSIBLE ROUTE FOR DISABLED PEDESTRIANS WHENEVER AN EXISTING ROUTE IS BLOCKED DUE TO SIDEWALK OR ROADWAY CONSTRUCTION. THE ALTERNATIVE ROUTE SHALL BE PROVIDED AT ALL TIMES EXCEPT AS APPROVED BY THE INSPECTOR OR ENGINEER. THE FOLLOWING TEMPORARY ALTERNATIVES MAY BE EMPLOYED, SUBJECT TO PRIOR APPROVAL BY THE INSPECTOR OR ENGINEER ON A SPECIFIC LOCATION BASIS.
   A. PROVIDE A MINIMUM 5-FOOT WIDE WALK.
   B. PROVIDE TEMPORARY SIGNING WITH A DISABLED ACCESS LOGO POINTING TO AN ALTERNATIVE ACCESSIBLE ROUTE WITHIN 300 FEET.
   C. A 5-FOOT WIDE CLEAR WALKWAY IN A PARKING OR CLOSED CURB LANE, SHALL CONFORM TO THE LATEST CALIFORNIA MUTCD (SEPTEMBER 2006).
   D. TEMPORARY AC CURB RAMPS IN A PARKING OR CLOSED CURB LANE NEXT TO THE CURB. THEY SHALL BE 4-FEET WIDE, PARALLEL TO THE STREET, WITH A 4 FOOT BY 4 FOOT LEVEL CLEAR LANDING AT THE TOP AND A MAXIMUM RAMP SLOPE OF 1:12. ALL PEDESTRIAN DETOURS SHALL CONFORM TO THE LATEST CALIFORNIA MUTCD (SEPTEMBER 2006).
   E. MOVABLE WOODEN CURB RAMPS AS IN "D" ABOVE SHALL HAVE WOODEN OR METAL HAND RAILS ON THE NONRAMP STREET SIDES.
   F. OTHER TEMPORARY ARRANGEMENTS AS THE INSPECTOR OR ENGINEER MAY AUTHORIZE.
8. PAVING: PAVING OF ROADWAY AREAS SHALL BE WITHHELD UNTIL COMPLETED UTILITY CHANGES OR INSTALLATIONS HAVE BEEN MADE UNDER CITY PERMIT. ACWS SHALL NOT BE PLACED UNTIL ALL AC BASE IS PLACED.
9. REPAIR AND/OR REPLACE ANY EXISTING BROKEN OR OFFGRADE CONCRETE CURB, CONCRETE GUTTER OR CONCRETE SIDEWALK AND/OR PAVEMENT IMMEDIATELY ADJACENT TO OR WITHIN THE AREA OF REQUIRED IMPROVEMENTS TO THE SATISFACTION OF THE CITY ENGINEER PER SPECIFICATIONS.
10. CONSTRUCTION STAKES FOR CURB AND LONGITUDINAL GUTTER, WITH GRADE LESS THAN 0.50%, SHALL BE SET 12.5 FEET ON THE CENTER.
11. THE CONTRACTOR IN CONFORMANCE WITH LOS ANGELES CITY ORDINANCE NO. 150,478, SHALL POTHOLE EXISTING SUBSURFACE INSTALLATIONS CARRYING UNSTABLE SUBSTANCES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS PRIOR TO COMMENCING EXCAVATION. NO POWER TOOLS ARE PERMITTED, ECXEPT TO BREAK THE PAVEMENT.
12. THE CURB FACE SHALL BE 8 INCHES OR MATCH THE EXISTING.
13. IN ADDITION TO THE CONSTRUCTION OF PAVEMENT SHOWN HEREON, WORK REQUIRED UNDER THIS PLAN WILL ALSO INCLUDE THE CONSTRUCTION OF PERMANENT TRENCH RESURFACING IN ALL AREAS WHERE UTILITY LINES HAVE BEEN INSTALLED TO SERVE THIS PROJECT. CONDITIONS OF TRENCH BACKFILL AND RESURFACING SHALL BE AS SPECIFIED ON THE EXCAVATION PERMIT.
14. 4" CMB UNDER ALL SIDEWALKS AND CURB RAMPS. CURBS & GUTTERS, DRIVEWAYS, AND PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH CITY STREET DESIGN MANUAL, PER PAVEMENT CALCULATIONS AND AS SHOWN ON TYPICAL CROSS SECTIONS.
15. TEMPORARY AC PVMT SHALL BE PLACED ADJACENT TO ALL CONCRETE EDGES AND OTHER ROUGH AREAS WITHIN THE AREA OF REMOVAL, SO AS TO PROVIDE A SMOOTH SURFACE FOR VEHICULAR TRAFFIC.
16. SIGNS REQUIRED BY THE LADOT WORKSITE TRAFFIC CONTROL PLAN (S-488.0), AND APPROVED SITE SPECIFIC WORKSITE TRAFFIC CONTROL PLANS, THE CONTRACTOR SHALL FURNISH AND POST "ADVANCE NOTICE" CONSTRUCTION SIGNS AS PART OF THIS PROJECT IN ACCORDANCE WITH STANDARD PLAN S-791-1. TRAFFIC CONTROL SIGNS NEED TO BE COORDINATED THROUGH LADOT BEFORE INSTALLATION.
17. REMOVALS:
   A. REMOVE EXISTING IMPROVEMENTS THAT INTERFERE WITH THE CONSTRUCTION OF THIS PROJECT AND COORDINATE WITH ALL OWNERS OF EXISTING FACILITIES.
   B. ALL IMPACTED UTILITIES EXCEPT TRAFFIC SIGNALS AND STREET LIGHTING FACILITIES SHALL BE REMOVED OR RELOCATED ACCORDING TO THE DRAWINGS, EITHER BY THE CONTRACTOR OR BY OTHERS. CONTRACTOR MUST COORDINATE WITH UTILITY OWNER REGARDING WORK TO BE PERFORMED BY OTHERS.
   C. LADOT WILL INSTALL, REMOVE AND/OR COVER PARKING METER HEADS AS APPROPRIATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE PARKING METER POSTS AFFECTED BY CONSTRUCTION ONLY AFTER THE PARKING METER HEADS HAVE BEEN REMOVED BY LADOT. THE CONTRACTOR SHALL CONTACT LADOT (213) 485-2610, 10 WORKING DAYS PRIOR TO PARKING METER REMOVAL.
18. UNDERGROUND SERVICE ALERT:
   BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT (USA) INQUIRY I.D. NUMBER BY CALLING (800) 227-2600. TWO WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE CONTRACTOR STARTS THE EXCAVATION WORK SO THAT UTILITY OWNERS CAN BE NOTIFIED. IF THE UTILITY OWNER IS THE CITY OF LOS ANGELES, A CONFIRMATION NUMBER INDICATING THE CITY HAS BEEN NOTIFIED SHALL BE OBTAINED BY USA AND/ OR THE CONTRACTOR FROM THE APPROPRIATE CITY DEPARTMENT. THE I.D. NUMBER TOGETHER WITH THE DATE ACQUIRED SHALL BE REPORTED TO THE BUREAU OF CONTRACT ADMINISTRATION WHEN CALLING FOR INSPECTION. I.D. NUMBERS WILL NOT BE GIVEN MORE THAN 10 DAYS BEFORE STARTING EXCAVATION WORK.
19. ALL POWER POLES AND POWER FACILITIES WILL BE REPLACED AND/OR ADJUSTED BY LADWP. CONTRACTOR SHALL NOT DISTURB NOR DAMAGE OVERHEAD FACILITIES.
20. TRAFFIC SIGNAL EQUIPMENT (POLES, CONDUITS, PULLBOXES, LOOPS) INTERFERING WITH CONSTRUCTION MAY BE RELOCATED ONLY WITH PRIOR APPROVAL BY LADOT. IN THE EVENT OF DAMAGE TO TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LADOT INSPECTOR FERNANDO ALEGRIA AT (213) 792-7637 AND SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIR/REPLACEMENT AT NO COST TO THE CITY. REPAIRED OR REPLACED TRAFFIC SIGNAL EQUIPMENT SHALL BE INSPECTED BY THE LADOT INSPECTOR BEFORE SIGNAL CIRCUITS ARE ENERGIZED.
21. LOCATION OF EXISTING TRAFFIC SIGNAL CONDUIT SHOWN ON THE PLANS IS APPROXIMATE ONLY. CONTRACTOR SHALL DETERMINE IN ADVANCE OF THE WORK THE LOCATION OF TRAFFIC SIGNAL CONDUIT OR OTHER TRAFFIC SIGNAL EQUIPMENT WHICH MAY INTERFERE WITH THE WORK OR WHICH MAY BE DAMAGED BY HIS OPERATIONS.
22. PRIOR TO WORKING WITHIN THE PUBLIC RIGHT-OF-WAY, NOTIFY LADOT 5 WORKING DAYS IN ADVANCE, (213) 485-2610, FOR APPROVAL TO CLOSE TRAFFIC LANES AND/OR SIDEWALKS. THE CONTRACTOR WILL BE REQUIRED TO MEET WITH LADOT TO DETERMINE THE NEED FOR WORKSITE TRAFFIC CONTROLS PER STANDARD PLANS S-488, AND/OR SITE-SPECIFIC WORKSITE TRAFFIC CONTROL PLANS AND DETOUR PLANS. HOURS AND DURATION OF TRAFFIC LANE CLOSURES SHALL COMPLY WITH TRAFFIC LANE REQUIREMENTS PREVIOUSLY ESTABLISHED AND PROVIDED BY LADOT.
23. THE CONTRACTOR SHALL PROTECT ALL EXISTING DRAINAGE STRUCTURES DURING CONSTRUCTION AND KEEP THEM FREE OF CONCRETE, TRASH AND OTHER CONSTRUCTION DEBRIS.
24. ALL STORMDRAIN FACILITIES IN CALTRANS R/W ARE OWNED AND MAINTAINED BY CALTRANS.
25. CONTRACTOR SHALL COMPLY WITH "SEWAGE SPILL PREVENTION RESPONSE PLAN" PER CITY OF LOS ANGELES BROWN BOOK, 7-8.4.
26. ALL EXISTING SANITARY SEWER & STORM DRAIN MAINTENANCE HOLES WITHIN THE WORK AREA THAT WILL REMAIN IN OPERATION AFTER CONSTRUCTION SHALL BE ADJUSTED TO GRADE.
27. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL ADJUST WATER SERVICES AND WATER GATE VALVES TO GRADE AFTER NOTIFYING AND COORDINATING WITH DWP-WS.
28. LIMITS OF COLD PLANE AND OVERLAY TO BE DETERMINED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
29. ALL CURB RAMPS SHALL HAVE TRUNCATED DOMES ON THE "W" PORTION. SEE STD PLAN S-442-3.
30. PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO START OF CONSTRUCTION, PRE AND POST INSTALLATION CCTV INSPECTION OF THE LINE IS REQUIRED BETWEEN MH'S TO CONFIRM NUMBER OF EXISTING LATERALS AND TO VERIFY THAT NO DAMAGE WAS DONE TO THE PIPE.
31. CONTRACTOR SHALL BACKFILL TRENCHES WITH SLURRY TO BOTTOM OF PAVEMENT SECTION PER SSPWC 100-E-100 WITHIN CITY STREETS.
32. CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS WITH THE FINAL DESIGN OF TRACK, SYSTEMS, FACILITIES AND DUCT BANKS.

SURVEY CONTROL

BASIS OF BEARING

BASIS OF BEARING S 77° 38' 27" E :
COORDINATES, BEARINGS AND DISTANCES SHOWN ON THIS SURVEY ARE BASED ON THE ICM COORDINATES SHOWN ON NAVIGATE LA HOLDING THE COORDINATE (N=1836387.06 , E=6491165.61) AT THE INTERSECTION OF 6TH ST. AND MATEO ST. FOR POSITION AND HOLDING THE COORDINATE (N=1835473.68 , E=6495334.11) AT THE INTERSECTION OF BOYLE AVE. AND WHITTIER BLVD. FOR DIRECTION OR BEARING.

BENCHMARKS

BM#	ELEVATION IN FT	DESCRIPTION/LOCATION
12-04070	247.26	CUT SPIKE 7FT S OF S CURB LINE 7TH ST; 0.8FT W OF W END OF HANDRAIL TO BRIDGE 25FT E OF SANTA FE AVE.
11-02339	318.86	WIRE SPK IN W CURB CHICAGO ST; 5FT N OF N P.L. WHITTIER BLVD; N END CB

THE VERTICAL DATUM IS BASED UPON THE CITY OF LOS ANGELES PRECISE BENCH BOOK, NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) - 1985 ADJUSTMENT IN FEET.

COMPLIANCE WITH THE GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

1. THE CONTRACTOR IS REQUIRED TO MEET THE FOLLOWING MINIMUM STANDARDS OF GOOD HOUSEKEEPING:
   a. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE, OR WIND.
   b. STOCKPILES OF EARTH AND OTHER CONSTRUCTION-REALATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY WIND OR WATER.
   c. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL NOR THE SURFACE WATERS. ALL APPROVED TOXIC STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS SHALL NOT BE WASHED INTO DRAINAGE SYSTEM.
   d. EXCESS OR WASTE CONCRETE SHALL NOT BE WASHED INTO THE PUBLIC WAY OR ANY DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON-SITE UNTIL THEY CAN BE APPROPRIATELY DISPOSED OF OR RECYCLED.
   e. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
   f. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAYS. ACCIDENTAL DEPOSITS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR BY ANY OTHER MEANS.
2. WET WEATHER EROSION CONTROL PLAN (WWECP)
   PURSUANT TO SECTION 61.02 OF THE LAMC, WHENEVER IT APPEARS THAT THE CONSTRUCTION SITE WILL HAVE GRADING BETWEEN OCTOBER 1 AND APRIL 15, THE CONTRACTOR SHALL SUBMIT A WWECP TO THE PROJECT MANAGER FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT OR GET APPROVAL 30 DAYS PRIOR TO THE BEGINNING OF THE RAINY SEASON, WHICHEVER IS LONGER.
   GUIDANCE ON PREPARING THE WWECP CAN BE FOUND IN THE DEVELOPMENT BEST MANAGEMENT PRACTICES HANDBOOK - PART A, CONSTRUCTION ACTIVITIES ADOPTED BY THE BOARD OF PUBLIC WORKS, AS AUTHORIZED BY SECTION 64.72 OF IN LOS ANGELES MUNICIPAL CODE. THIS HANDBOOK CAN BE OBTAINED AT COST AT THE PUBLIC/PERMIT COUNTERS OF THE BUREAU OF ENGINEERING.
3. NOTICE OF INTENT
   THE CONTRACTOR SHALL FILE A "NOTICE OF INTENT" (NOI) WITH THE STATE WATER RESOURCES CONTROL BOARD TO COMPLY WITH THE CALIFORNIA GENERAL CONSTRUCTION ACTIVITY STORMWATER PERMIT AND PREPARE AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP). WHENEVER THE CONTRACTOR IS REQUIRED TO GET ANY TYPE OF PERMIT FROM THE DEPARTMENT OF BUILDING AND SAFETY (DBAS), THE CONTRACTOR SHALL SHOW A WASTE DISCHARGE IDENTIFICATION NUMBER (WDID) TO DBS AS PROOF OF SUBMITTAL OF THE NOI. IF THE CONTRACTOR DOES NOT NEED ANY TYPE OF PERMIT FROM THE DBAS, THE CONTRACTOR SHALL SHOW THE WDID TO THE PROJECT MANAGER. OWNER RECOGNIZES THAT THE PHYSICAL CHARACTERISTICS OF THE PROJECT SITE, THE PLANNED SITE IMPROVEMENTS, AND THE MEANS, METHODS, AND SEQUENCE OF WORK SELECTED BY THE CONTRACTOR MAY AFFECT THE QUALITY OF STORM WATER DISCHARGES FROM THE SITE, BOTH DURING AND AFTER CONSTRUCTION ACTIVITY. ACCORDINGLY, THE SWPPP FOR THE PROJECT SHALL REQUIRE IMPLEMENTATION OF POLLUTANT CONTROL PRACTICES AT THREE LEVELS : 1) SPECIFIC MANDATORY PRACTICES THAT MUST BE IMPLEMENTED AS SPECIFIED; 2) ALTERNATIVE MANDATORY PRACTICES WHERE THE CONTRACTOR SELECTS FROM LISTED PRACTICES THE ALTERNATIVE THAT BEST FITS THE MEANS, METHODS, AND SEQUENCE OF WORK; AND 3) PRACTICES WHERE THE CONTRACTOR SELECTS THE CONTROL PRACTICES THAT BEST FIT THE MEANS, METHODS, AND SEQUENCE OF WORK SO AS TO CONTROL POLLUTANTS IN A MANNER CONSISTENT WITH THE GENERAL PERMIT. CONTRACTOR, IN ASSUMING SOLE, COMPLETE, AND CONTINUOUS RESPONSIBILITY FOR THE CONDITIONS AT THE JOB SITE DURING CONSTRUCTION, SHALL FULLY COMPLY WITH ALL REQUIREMENTS, TERMS, AND CONDITIONS IN THE NOTICE TO INTENT AND GENERAL PERMIT AND SHALL IMPLEMENT THE SWPPP.
   OWNER RETAINS THE RIGHTS AND POWERS TO EFFECT PROMPT CORRECTIVE ACTION UPON FAILURE BY THE CONTRACTOR TO COMPLY WITH ANY REQUIREMENTS, TERMS, OR CONDITIONS IN THE NOI, GENERAL PERMIT, OR SWPPP; HOWEVER, OWNER'S RETAINING OF THESE RIGHTS DOES NOT OBLIGATE THE OWNER TO EFFECT SAID CORRECTIVE ACTION OR TO NOTIFY CONTRACTOR THAT CORRECTIVE ACTION IS REQUIRED, NOR DOES IT RELIEVE THE CONTRACTOR FROM THE FULL RESPONSIBILITY TO COMPLY. CONDITIONS OF NON-COMPLIANCE DUE TO ANY ACTION OR INACTION OF ANY SUBCONTRACTOR, MATERIAL SUPPLIER, PROVIDER OF SERVICE, OR WORKER ON THE ACCOUNT OF THE CONTRACTOR SHALL BE CONSIDERED A FAILURE BY THE CONTRACTOR TO COMPLY. CONTRACTOR SHALL DESIGNATE IN WRITING THE NAME AND TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTING THE SWPPP. THE DESIGNATED PERSON SHALL BE AVAILABLE 24 HOURS PER DAY, SEVEN DAYS PER WEEK AND SHALL HAVE THE AUTHORITY TO RESPOND TO STORM WATER POLLUTION ISSUES AND TO IMPLEMENT CORRECTIVE AND PREVENTATIVE MEASURES AS REQUIRED. THE DESIGNATED PERSON AND THE TELEPHONE NUMBER SHALL BECOME PART OF THE SWPPP, A DOCUMENT AVAILABLE TO THE PUBLIC.

BUREAU OF ENGINEERING — OFFICIAL RECORD

HNTB
HNTB Corporation
601 W. 5TH STREET SUITE 1000
LOS ANGELES, CALIFORNIA 90071
TEL (213) 403-1000 FAX (213) 403-1001

BUREAU OF ENGINEERING — CITY OF LOS ANGELES — ENGINEERING

NO.	REVISIONS:	DATE:	BY:

STRUCTURE NO.

INDEX NO. D-34619

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — TAYLOR J. HENDERSON — No. 81237 — Exp. 9/30/15 — CIVIL

DEPARTMENT OF PUBLIC WORKS — CITY OF LOS ANGELES

GARY LEE MOORE, P.E.	CITY ENGINEER
DESIGN GROUP	DATE:
ENGINEER: TAYLOR HENDERSON	LIC. NO. 81237
DESIGNED BY: TAYLOR HENDERSON	
DRAWN BY: TAYLOR HENDERSON	
CHECKED BY: TERENCE PAO	
APPROVED BY: TERENCE PAO	

VERTICAL CONTROL: BM 12-04070 1929 (NGVD 29) - 1985 ADJUSTMENT
HORIZONTAL CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: NOTICE TO CONTRACTORS

PROJECT: SIXTH STREET VIADUCT REPLACEMENT

ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA

WORK ORDER NO. E700227F

DRAWING NO. G-202

SHEET 3 OF SHEETS

REVISION DATES (DESIGN STAGE ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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Sheet Version 3.0
12/14/2015

NOTICE TO CONTRACTORS

GENERAL NOTES

1. NOTIFY THE METROPOLITAN TRANSIT AUTHORITY, (213) 922-4632, 48 HOURS PRIOR TO ANY WORK WHICH WILL AFFECT NORMAL BUS OPERATIONS.

2. TO ENSURE SURVEY MONUMENT PRESERVATION, CONTRACTOR SHALL PROTECT AND/ OR PERPETUATE ANY CITY/ COUNTY SURVEY FACILITY AFFECTED BY THE PROJECT INCLUDING, BUT NOT LIMITED TO, BENCHMARKS, MONUMENTS, CORNER TIES, NAIL AND TINS, RIGHT OF WAY CORNERS, BOUNDARY MONUMENTS, BRASS DISKS, ETC. AS ACCEPTED BY THE CITY. PRIOR TO DISTURBANCE, THE CITY SHALL BE NOTIFIED AND A CORNER RECORD OR RECORD OF SURVEY MUST BE FILED WITH THE COUNTY SURVEYOR PRIOR TO CONSTRUCTION. IN ADDITION, CITY MONUMENT TIE NOTES SHALL BE FILED IN ORDER APPROPRIATELY TO ACHIEVE FULL COMPLIANCE WITH STATE LAW.

STREET IMPROVEMENTS - ADDITIONAL NOTES

1. GRADING REQUIRED ON PRIVATE PROPERTY OUTSIDE THE STREET AND ALLEY DEDICATION, IN CONNECTION WITH THIS IMPROVEMENT, SHALL BE PERFORMED EITHER WITHIN DEDICATED SLOPE EASEMENTS OR IN AREAS FOR WHICH SATISFACTORY RIGHTS-OF-ENTRY HAVE BEEN OBTAINED.

2. DRAINAGE FROM ALL LOTS SHALL BE CARRIED TO THE IMPROVED GUTTER BY MEANS OF A DRIVEWAY, APPROVED OUTLET STRUCTURE, OR SIDEWALK DRAIN (SECTION 306-7 GREENBOOK).

3. PAVING OF ROADWAY AREAS SHALL BE WITHHELD UNTIL THE SEWER AND STORM DRAIN WORK HAS BEEN APPROVED BY UNDERGROUND FINAL INSPECTION.

4. WHERE TWO STREETS OF UNEQUAL BASE AND PAVEMENT THICKNESS INTERSECT, THE ENTIRE INTERSECTION TO THE ECR SHALL BE PAVED WITH THE GREATER THICKNESS OF BASE AND PAVEMENT.

STORM DRAIN CONSTRUCTION NOTES:

1. WHERE THE STORM DRAIN IS TO BE PLACED WITHIN A FILL, THE CONTRACTOR SHALL FIRST COMPACT THE FILL A MINIMUM OF 12" ABOVE THE TOP OF PIPE BEFORE TRENCH EXCAVATION TO LAY PIPE.

2. TRENCH BACKFILL FOR ALL STORM DRAINS CONSTRUCTED IN DRAINAGE EASEMENTS SHALL BE MECHANICALLY COMPACTED TO A RELATIVE DENSITY OF 90%.

3. PROTECTION BARS SHALL BE INSTALLED ON ALL SIDE OPENING CATCH BASINS UNLESS INDICATED OTHERWISE ON PLAN.

4. LOCATIONS OF EXISTING HOUSE CONNECTION SEWERS SHOWN HEREON ARE APPROXIMATE. IF INTERFERENCE IS ENCOUNTERED, REMODEL THE HOUSE CONNECTION IN CONFORMANCE WITH THE APPLICABLE DETAIL ON STANDARD PLAN S-111-0.

5. THE CONTRACTOR SHALL VERIFY THE ELEVATION OF ANY SUBSTRUCTURE INDICATED WITH AN ASTERISK (*) AND SHALL SECURE CLEARANCE OF THE PRIVATE ENGINEER BEFORE PROCEEDING WITH INSTALLATION OF THE PIPE.

6. SPPWC PER BUREAU OF ENGINEERING SPECIAL ORDER NO. 007-0701, DATED JULY 16, 2001.

7. SPACE BETWEEN THE BACK OF SIDE OPENING CATCH BASINS AND EXISTING SIDEWALK, IF LESS THAN 2 FEET, SHALL BE FILLED WITH 4" CONCRETE SIDEWALK PLACED MONOLITHICALLY WITH THE TOP SLAB OF THE CATCH BASIN.

8. SPECIFICATIONS: ALL DRAINAGE WORK SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) THE GREEN BOOK AS MODIFIED BY THE CORRESPONDING ISSUE OF THE BROWN BOOK AND ANY SPECIAL PROVISIONS.

9. THE GRATES FURNISHED FOR ALL SURFACE DRAINAGE INLETS SHALL BE GRAY CAST IRON. GRATES SHALL BE CAPABLE OF SUPPORTING HS20-44 WHEEL LOADING FOR HEAVY-DUTY TRAFFIC AND H-10 LOADING FOR PEDESTRIAN TRAFFIC. GRATES SHALL CONFORM TO STANDARD PLANS S-601-0.

10. ALL PVC PIPE SHALL CONFORM TO ASTM D3034 SDR 35.

TREES AND TREE WELLS

1. TREE REMOVAL: PRIOR TO THE REMOVAL OF ANY STREET TREE, A BOARD REPORT MUST BE SUBMITTED AND APPROVED BY THE BOARD OF PUBLIC WORKS (30-60 DAYS FROM RECEIPT OF A WRITING FORMAL REQUEST,) A COPY OF THE PERMIT IS REQUIRED TO BE ON THE JOB SITE WHILE THE TREE WORK IS TAKING PLACE.

2. ROOT TRIMMING: TREE(S) MUST BE TRIMMED PRIOR TO ROOT PRUNING TO COMPENSATE FOR THE ROOT LOSS AND TO STABILIZE THE TREE. THE CROWN OF THE TREE IS TO BE REDUCED BY NO MORE THAN 25% OF FOLIAGE (UNLESS APPROVED OTHERWISE BY AN URBAN FORESTRY ARBORIST). PRUNE THE ROOTS ON ONE SIDE OF THE ROOT SYSTEM ONLY (UNLESS APPROVED OTHERWISE BY AN URBAN FORESTRY ARBORIST). DO NOT PRUNE ROOTS LARGER THAN 4" DIAMETER (PERMIT IS REQUIRED).
   - CONTRACTOR IS TO TRIM THE TREE(S) TO THE SATISFACTION OF THE URBAN FORESTRY DIVISION USING A.N.S.I. A300 STANDARDS AND/OR I.S.A. PRUNING GUIDELINES. (PERMIT IS REQUIRED).
   - NOTIFY THE URBAN FORESTRY DIVISION AT (213) 485-5675, FIVE WORKING DAYS PRIOR TO TRIMMING AND/OR ROOT PRUNING FOR A REPRESENTATIVE TO INSPECT AND ISSUE THE NECESSARY PERMITS.

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REVISION DATES (DESIGN STAGE ONLY)

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12/14/2015

BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE	BY:

STRUCTURE NO.

INDEX NO. D-34619

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

PROFESSIONAL ENGINEER
TAYLOR J. HENDERSON
No. 81237
Exp. 9/30/15
REGISTERED

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GARY LEE MOORE, P.E. CITY ENGINEER

DESIGN GROUP DATE:

ENGINEER: TAYLOR HENDERSON LIC. NO. 81237
DESIGNED BY: TAYLOR HENDERSON
DRAWN BY: TAYLOR HENDERSON
CHECKED BY: TERENCE PAO
APPROVED BY: TERENCE PAO

VERTICAL CONTROL: BM 12-04070.1928 (NGVD 29) - 1985 ADJUSTMENT
HORIZONTAL CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: NOTICE TO CONTRACTORS

PROJECT: SIXTH STREET VIADUCT REPLACEMENT

ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD)
LOS ANGELES, CA

BUREAU OF ENGINEERING
OFFICIAL RECORD

HNTB
HNTB Corporation
601 W. 5TH STREET SUITE 1000
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WORK ORDER NO.
E700227F

DRAWING NO.
G-203

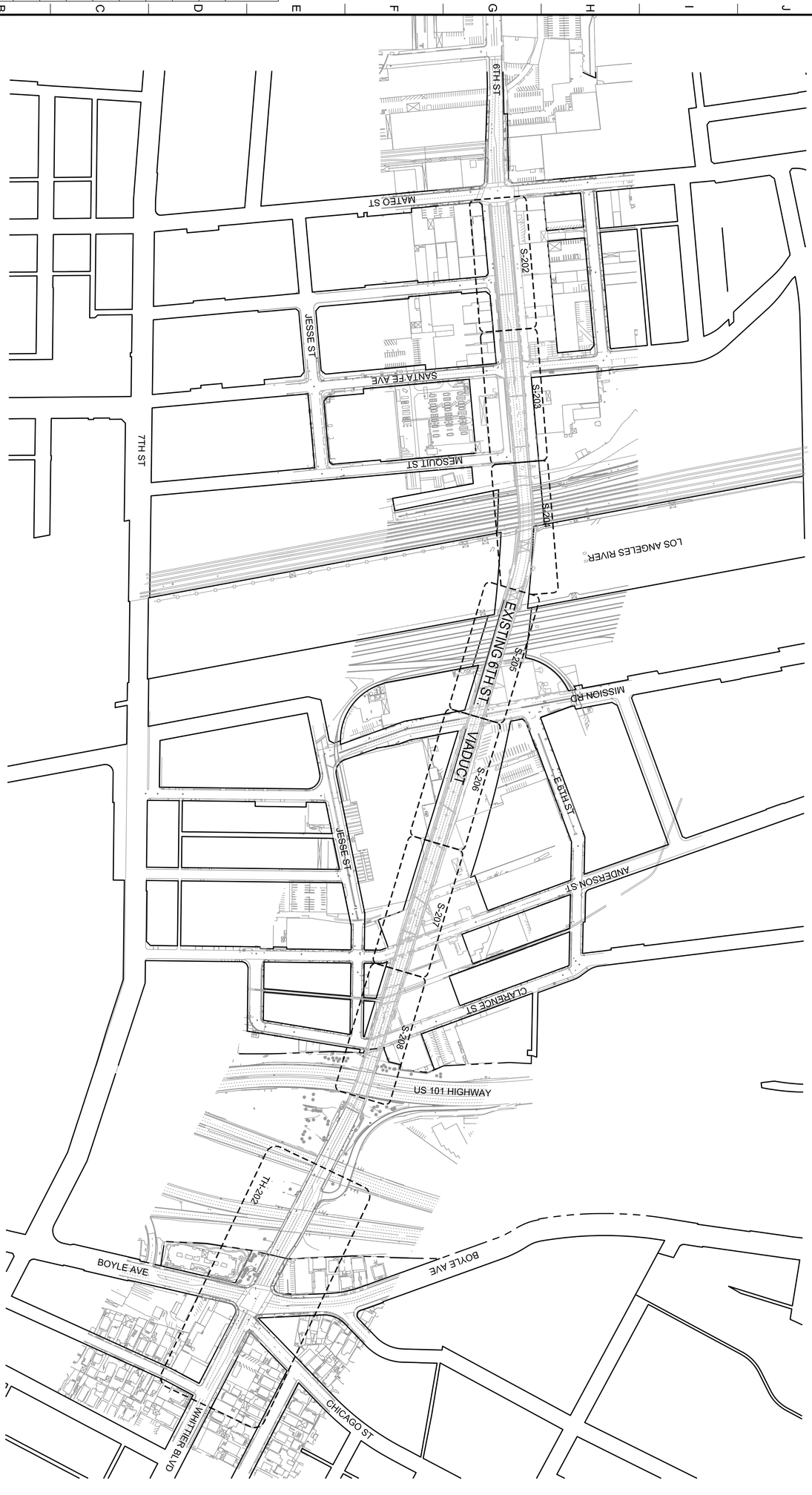
SHEET 4 OF SHEETS

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12/14/2010

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SCALE 1" = 200'-0"

HNTB

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601 W. 5TH STREET SUITE 1000
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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS • THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED. • BUREAU OF ENGINEERING

SHEET 5 OF SHEETS

G-204

DRAWING NO.

WORK ORDER NO. E700227F

VERTICAL CONTROL: BM 12-04070,1929 (NGVD 29) - 1985 ADJUSTMENT
HORIZONTAL CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: KEY MAP

PROJECT: SIXTH STREET VIADUCT REPLACEMENT

ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD)
LOS ANGELES, CA

GARY LEE MOORE, P.E. CITY ENGINEER

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APPROVED BY:	TERENCE PAO	

REGISTERED PROFESSIONAL ENGINEER
TAYLOR J. HENDERSON
No. 81237
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO. D-34619

STRUCTURE NO.

ENGINEERING
CITY OF LOS ANGELES

ABBREVIATIONS

UTILITY COMPANY / AGENCY ABBREVIATIONS

&	AND
AAR	ASSOCIATION OF AMERICAN RAILROADS
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABAN	TO BE ABANDONED
ACI	AMERICAN CONCRETE INSTITUTE
ADA	AMERICAN WITH DISABILITY ACT
AM STATE	W. AMERICAN STATES WATER COMPANY (NOW LACOW)
ARCO	ATLANTIC RICHFIELD COMPANY (NOW FOUR CORNERS PIPELINE COMPANY)
AREMA	AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BNSF	BURLINGTON NORTHERN SANTA FE
BPL	BUREAU OF POWER AND LIGHT (NOW LA DWPPS)
BWS	BUREAU OF WATER SUPPLIES (NOW LA DWPWS)
CON WCO	CONSERVATIVE WATER COMPANY (NOW LACOW)
CALTRANS	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
CPUC	CALIFORNIA PUBLIC UTILITIES COMMISSION
DWPPS	CITY OF LOS ANGELES, DEPARTMENT OF WATER AND POWER, POWER SYSTEM
FHWA	FEDERAL HIGHWAY ADMINISTRATION
FTA	FEDERAL TRANSPORTATION ADMINISTRATION
GP	GENERAL PETROLEUM (NOW MOBIL OIL)
GSD	CITY OF LOS ANGELES, GENERAL SERVICES DIVISION
GTE	GENERAL TELEPHONE COMPANY
LA	CITY OF LOS ANGELES
LACFCD	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LACMTA	LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
LACO	COUNTY OF LOS ANGELES
LACOW	LOS ANGELES COUNTY WATER WORKS
LACSD	LOS ANGELES COUNTY SANITATION DISTRICTS
LACTC	LOS ANGELES COUNTY TRANSPORTATION COMMISSION (NOW LACMTA)
LADOT	CITY OF LOS ANGELES, DEPARTMENT OF TRANSPORTATION
LADWP-PS	CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER, POWER SYSTEMS
LADWP-WS	CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER, WATER SYSTEMS
LAG	LOS ANGELES GAS (NOW SCG OR TGC)
LAG&E	LOS ANGELES GAS & ELECTRIC (NOW SCG, TGC AND DWPPS)
LAWD	LOS ANGELES WATER DEPARTMENT (NOW DWPWS)
MWD	METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
PAC BELL,PB	PACIFIC BELL COMPANY
PACTEL, PTT	PACIFIC TELEPHONE & TELEGRAPH COMPANY
SCAL W	SOUTHERN CALIFORNIA WATER COMPANY (NOW LACOW)
SCE	SOUTHERN CALIFORNIA EDISON COMPANY
SCG	SOUTHERN CALIFORNIA GAS COMPANY(NOW THE GAS COMPANY)
SCRTD	SOUTHERN CALIFORNIA RAPID TRANSIT DISTRICT (NOW LACMTA)
SCT	SOUTHERN CALIFORNIA TELEPHONE COMPANY (NOW PACIFIC BELL)
SCWCO	SOUTHERN CALIFORNIA WATER COMPANY
SO PAC P	SOUTHERN PACIFIC PIPELINE COMPANY
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
SPTC OR SP	SOUTHERN PACIFIC TRANSPORTATION COMPANY
STD OIL CO	STANDARD OIL COMPANY OF CALIFORNIA
TGC	THE GAS COMPANY(FORMERLY SOUTHERN CALIFORNIA GAS COMPANY)
TM-CATV	TIMES MIRROR CABLE TELEVISION (NOW SIMMONS CABLE TELEVISION)
UBC	UNIFORM BUILDING CODE
UPRR	UNION PACIFIC RAILROAD
US	UNITED STATES
USC & GS	UNITED STATES COAST AND GEODETIC SURVEY
WUT	WESTERN UNION TELEGRAPH COMPANY(NOW ATS PART OF MCI)

MISCELLANEOUS

@	AT
AB	AGGREGATE BASE
ABND, ABAND	ABANDONED
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
ABUT	ABUTMENT
AC	ASPHALT CONCRETE OR ASBESTOS CEMENT
ACC	ASPHALT CEMENT CONDUIT
ACD	ASPHALTIC CONCRETE DUCT
ACL	AUXILIARY CONTROL LINE
ACP	ASBESTOS CEMENT PIPE
ACWS	ASPHALT CONCRETE WEARING SURFACE
AGGR	AGGREGATE
AHD	AHEAD
AL	ALUMINUM
ALIGN	ALIGNMENT
ALT	ALTERNATE
AMER STD	AMERICAN STANDARD
APP	APPROVED (REF)
APPROX, APP	APPROXIMATELY
APRV	APPROVED
AS	AGGREGATE SUB-BASE
ASB	ASBESTOS
ASPH	ASPHALT
AVE	AVENUE
AWG	AMERICAN WIRE GAUGE (GAGE)
A/R	AS REQUIRED
BB	BILLBOARD
BC	BEGIN CURVE
BCOP	BARE COPPER
BCR	BEGIN CURB RETURN
BDRY	BOUNDARY
BEG	BEGIN OR BEGINNING
BF	BOTTOM FACE, BOTTOM OF FOOTING
BFP	BACKFLOW PREVENTER
BIT	BITUMINOUS
BK	BACK
BL	BASELINE, BUILDING LINE OR LEFT TRACK-LINE B
BLDG	BUILDING
BLS	BLUE LIGHT STATION
BLVD	BOULEVARD
BM	BENCH MARK
BO	BLOW-OFF
BOC	BOTTOM OF CURB
BOP	BOTTOM OF PIPE
BORW	BOTTOM OF RETAINING WALL
BOS	BOTTOM OF SLOPE
BP	BEGIN PLATFORM
BRDG	BRIDGE
BRG	BEARING
BRK	BRICK
BRS	BLAST RELIEF SHAFT
BS	BELL AND SPIGOT
BSMT	BASEMENT
BUR CA	BURIED CABLE
BVC	BEGINNING OF VERTICAL CURVE
BW, B/W	BACK OF WALK
B TO B	BACK TO BACK
B-PC	SCHEDULE B - PLASTIC CONDUIT
Cb	CURB
CA	CABLE OR COMPRESSED AIR
CAB	CRUSHED AGGREGATE BASE
CB	CATCH BASIN
CBD	CENTRAL BUSINESS DISTRICT
CC-B	CONCRETE CONDUIT-TYPE B
CC-C	CONCRETE CONDUIT-TYPE C
CD	CURB DRAIN
CE	CONCRETE ENCASED
CF	CURB FACE, CUBIC FOOT
CFS	CUBIC FEET PER SECOND
C & G	CURB AND GUTTER
CAL/OSHA	CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CAP	CORRUGATED ALUMINUM PIPE
CBP	CATCH BASIN CONNECTION PIPE
CBR	CALIFORNIA BEARING RATIO
CCR	CALIFORNIA CODE OF REGULATIONS
CCTV	CLOSED CIRCUT TV
CFR	CODE OF FEDERAL REGULATIONS
CGS	CENTER OF GRAVITY, STRAND
CHEM	CHEMICAL
CI	CAST IRON OR CURB INLET
CICLP, CIP(CL)	CAST-IRON CEMENT LINED PIPE
CIP	CAST IRON PIPE
CIPP	CAST-IN PLACE PIPE
CIRCUM	CIRCUMFERENCE
CISP(ES)	CAST IRON SOIL PIPE (EXTRA STRENGTH)
CJ	CONSTRUCTION JOINT
C/L	CONTROL LINE
CL	CURB LINE OR CLASS, CLEARANCE
℄	CENTERLINE
CLF	CHAIN LINK FENCE
CLG	CEILING
CLR	CLEARANCE OR CLEAR
CMB	CRUSHED MISCELLANEOUS BASE
CMC	CEMENT MORTAR-COATED
CML	CEMENT MORTAR-LINED
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT, COUNTY, OR COMPANY
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
CONC BL	CONCRETE BLOCK
COND	CONDUIT
CONF	CONFERENCE
CONN	CONNECT, CONNECTION, OR CONNECTOR
CONST	CONSTRUCT OR CONSTRUCTION
CONT	CONTINUED, CONTINUOUS, OR CONTINUATION
COORD	COORDINATE
COP	COPPER
COR	CORNER
CORR	CORRUGATE OR CORRUGATED
CP	CONCRETE PIPE OR CEMENT PIPE
CPC	CORRUGATED PLASTIC CONDUIT
C/S	COMMUNICATIONS/SIGNALS
CSG	CASING
CSP	CORRUGATED STEEL PIPE
CSW	CONCRETE SIDEWALK
CTA	CENTRAL TANGENT ANGLE
CTB	CEMENT TREATED BASE
CU FT, CF	CUBIC FOOT
CU IN	CUBIC INCH
CU YD, CY	CUBIC YARD
CULV	CULVERT
CV	CHECK VALVE
CWD	CREOSOTED WOOD DUCT
CWR	CONTINUOUS WELDED RAIL
C/C	CENTER TO CENTER
C-PC	SCHEDULE C - PLASTIC CONDUIT
D, d	DEPTH, LOAD OF PIPE
D, DU, DCT	DUCT
DB	DUCT BANK
dB	DECIBELS
DBL	DOUBLE
DEF	DEFLECTION
DEG	DEGREES
DEPT	DEPARTMENT
DESC	DESCRIPTION
DET	DETAIL
DF	DIRECT FIXATION, DOUGLAS FIR
DG	DIESEL GAS OR DRY GAS
DI	DUCTILE IRON, DROP INLET
DIA OR 0/	DIAMETER
DIAG	DIAGRAM
DIM	DIMENSION
DIP(L)	DUCTILE IRON PIPE (LINED)
DIST	DISTRICT OR DISTANCE
DL	DEAD LOAD
DMD	DIAMOND
DMH	DRAINAGE MAINTENANCE HOLE
DML	DEMOLITION
DN	DOWN
DT	DRAIN TILE
DW	DOMESTIC WATER
DWG	DRAWING
DWL	DOWEL
DWLG	DOWELLING
DWY	DRIVEWAY
DWY APPR	DRIVEWAY APPROACH
E	EAST OR ELECTRIC
E'TERLY	EASTERLY
EA	EACH
EB	EASTBOUND
EC	END CURVE or END CURB
ECR	END CURB RETURN
E/E	EAST OF EAST RIGHT-OF-WAY LINE
EF	EACH FACE
EG	EDGE OF GUTTER
EGL	ENERGY GRADE LINE
EHH	ELECTRICAL HANDHOLE
EL	ELEVATION
ELC	ELECTROLIER LIGHING CONDUIT
ELEC	ELECTRIC OR ELECTRICAL
ELT	EXTRA LONG TON OF SLURRY
ELEV	ELEVATOR OR ELEVATION
EMB	EMBANKMENT
EMH	ELECTRICAL MAINTENANCE HOLE
ENGR	ENGINEER, ENGINEERING
E/O	EAST OF
EOR	END OF ROAD
EP	EDGE OF PAVEMENT OR END PLATFORM
EQ	EQUAL, EQUATION OR EQUALITY
ES	EXTRA STRENGTH
ESMT	EASEMENT
ET	END TRACK
ETB	EMULSION-TREATED BASE
ETC	ET CETERA
ETS	EMERGENCY TRIP STATION
EVC	END OF VERTICAL CURVE
EW	EACH WAY
E/W	EAST OF WEST RIGHT-OF-WAY LINE
EXC	EXCAVATION
EXST, EX OR EXIST	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F	FIBER, FARENHEIT
FA	FIRE ALARM
FAC	FIRE ALARM CONDUIT
F&C	FRAME AND COVER
F&I	FURNISH AND INSTALL

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REVISION DATES (DESIGN STAGE ONLY)

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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

STRUCTURE NO.

INDEX NO. D-34619

NO.	REVISIONS:	DATE:	BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
TAYLOR J. HENDERSON
No. 81237
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA

CITY ENGINEER

GARY LEE MOORE, P.E.

DESIGN GROUP		DATE:	
ENGINEER:	TAYLOR HENDERSON	LIC. NO.	81237
DESIGNED BY:	TAYLOR HENDERSON		
DRAWN BY:	TAYLOR HENDERSON		
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APPROVED BY:	TERENCE PAO		

CITY OF LOS ANGELES

VERTICAL CONTROL:	BM 12-04070, 1929 (NGVD 29) - 1985 ADJUSTMENT
HORIZONTAL CONTROL:	GPS; PID AE 1704, EPOCH 1991.35
SHEET TITLE:	ABBREVIATIONS AND SYMBOLS 1 OF 4
PROJECT:	SIXTH STREET VIADUCT REPLACEMENT
ADDRESS:	SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA

WORK ORDER NO.
E700227F

DRAWING NO.
G-205

SHEET 6 OF SHEETS

ABBREVIATIONS

FAB	FABRICATE
FAI	FRESH AIR INTAKE
FAS	FLASHING ARROW SIGN
FB	FIRE ALARM BOX
FBM	FOOT BOARD MEASUREMENT
FBP	FUTURE BEGIN PLATFORM
FC	FIBER CONDUIT OR FIRE CONNECTION
FD	FIBER DUCT, FLOOR DRAIN OR FIRE DEPARTMENT
FDN	FOUNDATION
FE	FLANGED END
FED SPEC	FEDERAL SPECIFICATION
FEP	FUTURE END PLATFORM
FF	FINISHED FLOOR OR FAR FACE
FFE	FINISH FLOOR ELEVATION
FG	FROG GAUGE PLATE OR FINISH GRADE
FH	FIRE HYDRANT
FIN	FINISH
FL	FLOW LINE, FUEL
FLG	FLANGE
FLP	FLOW LINE PIPE
FLR	FLOOR
FO	FIBER OPTICS
FP	FIRE PROTECTION
FPS	FEET PER SECOND
FR	FRAME
FS	FIRE SERVICE, FINISHED SURFACE, OR FAR SIDE
FT	FOOT OR FEET
F TO F	FACE TO FACE
FT-LB	FOOT-POUND
FTG	FOOTING
FW	FACE OF WALL
FWL	FIRE WATER LINE
FWY	FREEWAY
G	GAS OR GAS LINE
GA	GAUGE (GAGE)
GALV	GALVANIZE OR GALVANIZED
GAL(S)	GALLON(S)
GB	GRADE BREAK
GIP	GALVANIZED IRON PIPE
GL	GROUND LINE OR GRADE LINE
GM	GAS METER
GND	GROUND
GP	GUY POLE, GENERAL PACKAGE, GAUGE PLATE OR GRADING PLAN
GR	GRADE, GROUND OR GUARD RAIL PLATE
GRTG	GRATING
GRS	GALVANIZED RIGID STEEL
GS	GASOLINE
GSC	GALVANIZED STEEL CONDUIT
GSP	GALVANIZED STEEL PIPE
GUY	POWER POLE ANCHOR
GV	GATE VALVE
GW	GUY WIRE
H	HEIGHT
HAP	HORIZONTAL ANGLE POINT
HB	HOSE BIB
HC	HANDICAP OR SANITARY SEWER HOUSE CONNECTION
HDWL	HEADWALL
HGL	HYDRAULIC GRADE LINE
HH	HANDHOLE
HMWPE	HIGH MOLECULAR WEIGHT POLYETHYLENE
HORIZ	HORIZONTAL
HOV	HIGH OCCUPANCY VEHICLE
HP	HIGH PRESSURE, HORSE POWER, HEEL PLATE OR HIGH POINT
Hp	HORSEPOWER
HR	HEADROOM OR HOUR
HPG	HIGH PRESSURE GAS
HPS	HIGH PRESSURE SODIUM (LIGHT)
HS	HIGH STRENGTH STEEL ASTM 432
HWY	HIGHWAY
HYDR	HYDRAULIC
ID	INSIDE DIAMETER
IJ	INSULATED JOINT
IMPVT	IMPROVEMENT
IN	INCH
INV	INVERT
INCL	INCLUDING
INSP	INSPECTION
IP	IRON PIPE
JC	JUNCTION CHAMBER
JCT	JUNCTION
JS	JUNCTION STRUCTURE
JT	JOINT
K	KIP OR KIPS
KF	KIP-FOOT
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KV	KILOVOLT
L	LINE, LINING, OR LENGTH
LAB	LABORATORY
LAT	LATERAL
LBS, #	POUND(S)
LD	LEAD, LOCAL DEPRESSION
LF	LINEAR FOOT (FEET)
LG	LONG OR LENGTH
LGT	LIGHT (REF)
LH	LEFT HAND, LAMP HOLE
LIN FT	LINEAR FEET
LJ	LEADED JOINT
LL	LIVE LOAD
LOC	LOCATE, LOCATED, OR LOCATION
LOL	LAYOUT LINE
LONG	LONGITUDINAL
LPS	LOW PRESSURE SODIUM (LIGHT)
LP	LOW PRESSURE OR LOW POINT, LAMP POST
LPT	LOW POINT
LRT	LIGHT RAIL TRANSIT
LRW	LATERAL RETAINING WALL
LS	LUMP SUM
LT	LEFT
LTG	LIGHTING
LTS	LIME TREATED SOIL
M	MAIN
MACH	MACHINE OR MACHINERY
MAG	MAGNESIUM OR MAGNETIC
MAINT	MAINTENANCE
MAX	MAXIMUM
MBL	METRO BLUE LINE
MCD	MULTIPLE CONCRETE DUCT
MCR	MIDDLE OF CURB RETURN
MCWD	MULTIPLE CREOSOTED WOOD DUCTS
MEAS	MEASURE
MECH	MECHANICAL
METRO	METROPOLITAN TRANSPORTATION AUTHORITY (MTA)
METRO R/W	LACMTA
MGL	METRO GREEN LINE
MH	MAINTENANCE HOLE
MIL SPEC	MILITARY SPECIFICATION
MIN	MINIMUM, MINUTES
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
ML	MORTAR LINED
ML & C	MORTAR LINED & COATED
MOD	MODIFIED, MODIFY
MON	MONUMENT
MP	MEDIUM PRESSURE
MPH	MILES PER HOUR
MRL	METRO RED LINE
MTA	METROPOLITAN TRANSPORTATION AUTHORITY
MTC	MULTI-TILE CONDUIT
MTD	MULTI-TILE DUCT
MULT	MULTIPLE
MVL	MERCURY VAPOR LIGHT
N	NORTH
N/A	NOT APPLICABLE
NB	NORTHBOUND
NF	NEAR FACE
NIC	NOT IN CONTRACT
N/N	NORTH OF NORTH RIGHT-OF-WAY LINE
N/O	NORTH OF
NO. OR #	NUMBER
NRC	NON-REVENUE CONNECTOR
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
N/S	NORTH OF SOUTH RIGHT-OF-WAY LINE
NTS	NOT TO SCALE
O	OIL LINE
OBS	OBSOLETE
OC	ON CENTER(S) or ON CURVE or OVERCROSSING
OCS	OVERHEAD CONTACT SYSTEM
OD	OUTSIDE DIAMETER
OE	OUTER EDGE
OFC	ORANGEBURG FIBER CONDUIT
OG	ORIGINAL GROUND
OH	OVERHEAD
OPP	OPPOSITE
ORIG	ORIGINAL
ORL	ORNAMENTAL LIGHTING
OTM	OTHER TRACK MATERIAL
P	PIPE
PA	POLICE ALARM OR PUBLIC ADDRESS
PB	PULL BOX
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVATURE
PCCP	PRE-STRESSED CONCRETE CYLINDER PIPE
PCL	PRIMARY CONTROL LINE
PCS	PIECES
PCVC	POINT OF COMPOUND VERTICAL CURVE
PD	PAPER DUCT
PE	POLYETHYLENE OR PLAIN END
PED	PEDESTRIAN
PEM	POLYETHYLENE MAIN
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PITO	POINT OF INTERSECTION OF TURNOUT
PIV	POST INDICATOR VALVE
PL	PLATE
ℙ	PROPERTY LINE
PLD	PLASTIC DUCT
PLT	PLASTIC TILE
PM	PARKING METER
PMB	PROCESSED MISCELLANEOUS BASE
PO	PUSH-ON JOINT
POC	POINT OF CONNECTION, POINT OF CURVE
POL	POLICE
POT	POINT ON TANGENT
PP	POWER POLE OR PAPER PIPE
PPD	PAPER PIPE DUCT
PRC	POINT OF REVERSE CURVE
PROD	PRODUCT
PROP	PROPERTY OR PROPOSED
PRVC	POINT OF REVERSE VERTICAL CURVE
PS	POINT OF SWITCH
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSP	PAINT SHOP
PT(S)	POINT(S)
PUE	PUBLIC UTILITY EASEMENT
PV	PLUG VALVE
PVC	POINT OF VERTICAL CURVATURE OR POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVCC	POINT OF VERTICAL COMPOUND CURVE
PVCP	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
PVRC	POINT OF VERTICAL REVERSE CURVE
PVT	POINT OF VERTICAL TANGENT
PVT R/W	PRIVIATE RIGHT-OF-WAY
PWR	POWER
Q	RATE OF FLOW IN CUBIC FEET PER SECOND
QTY	QUANTITY
QUAD	QUADRANGLE, QUADRANT
R	RADIUS, RIGHT
R&O	ROCK AND OIL
RA	RECYCLING AGENT
RAC	RECYCLED ASPHALT CONCRETE
RAP	RECLAIMED ASPHALT PAVEMENT
RBAC	RUBBERIZED ASPHALT CONCRETE
RBM	RAILBOUND MANGANESE
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX (CULVERT)
RCP	REINFORCED CONCRETE PIPE
RCE	REGISTERED CIVIL ENGINEER
RCV	REMOTE CONTROL VALVE
RD	ROAD
RECT	RECTANGLE OR RECTIFIER
REF	REFERENCE
REINF	REINFORCE, REINFORCED, OR REINFORCEMENT
REQD	REQUIRED OR REQUIRE
RES	RESERVOIR
RET	RETAINING
RW, RET W	RETAINING WALL
REV	REVISE, REVISED, OR REVISION
RGE	REGISTERED GEOTECHNICAL ENGINEER
RGS	RIGID GALVANIZED STEEL
RH	RIGHT HAND
RR	RAILROAD
ROS	RECORD OF SURVEY
RSE	REGISTERED STRUCTURAL ENGINEER
RT	RIGHT
RTE	REGISTERED TRAFFIC ENGINEER
RTP	RAIL TRANSIT PROJECT
RY	RAILWAY
R/W	RIGHT-OF-WAY
S	SOUTH, SLOPE, OR SIGN
SA	SERVICE AISLE
SB	SOUTHBOUND OR SPLICE BOX
SCC, SCCP	STEEL CYLINDER CONCRETE (PIPE)
SCL	SECONDARY CONTROL LINE
SCWD	SINGLE CREOSOTED WOOD DUCT
SD	STORM DRAIN
SDMH	STORM DRAIN MAINTENANCE HOLE
SDR	STANDARD THERMOPLASTIC PIPE DIMENSION RATIO (RATIO OF PIPE O.D. TO MINIMUM WALL THICKNESS)
SE	SAND EQUIVALENT
SEC	SECONDS
SECT, SEC	SECTION
SF	SQUARE FOOT
SFP	SITE FINISH PLAN

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BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

STRUCTURE NO.

INDEX NO. D-34619

NO. | REVISIONS: | DATE | BY:

* THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

PROFESSIONAL ENGINEER
TAYLOR J. HENDERSON
No. 81237
EXP. 9/30/15
REGISTERED
CIVIL
CALIFORNIA

CITY ENGINEER
GARY LEE MOORE, P.E.
DATE:
LIC. NO. 81237

DESIGN GROUP
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DESIGNED BY: TAYLOR HENDERSON
DRAWN BY: TAYLOR HENDERSON
CHECKED BY: TERENCE PAO
APPROVED BY: TERENCE PAO

VERTICAL CONTROL: BM 12-04070 1929 (NGVD 29) - 1985 ADJUSTMENT
HORIZONTAL CONTROL: GPS; PID AE 7704; EPOCH 1991.35

SHEET TITLE: ABBREVIATIONS AND SYMBOLS 2 OF 4
PROJECT: SIXTH STREET VIADUCT REPLACEMENT
ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA

WORK ORDER NO.
E700227F

DRAWING NO.
G-206

SHEET 7 OF SHEETS

ABBREVIATIONS

SG	SUB GRADE
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS (METRIC)
SIG	SIGNAL
SIM	SIMILAR
SIP	SUPPORT IN PLACE
SL	STREET LIGHT
SLC	STREET LIGHT CONDUIT
SLPB	STREET LIGHT PULL BOX
SMH	SEWER MANHOLE
S/N	SOUTH OF NORTH RIGHT-OF-WAY LINE
SPEC	SPECIFICATION(S) (REF)
SP	SPACE, SPACING, OR SITE PLAN
SPR	SPRINKLER
SQ	SQUARE
SR	STANDARD RATIO
S/S	SOUTH OF SOUTH RIGHT-OF-WAY LINE
SS	SANITARY SEWER OR STOP SIGN
SSB	SELECT SUB-BASE
SSD	SANDSTONE CEMENT DUCT
SSMH	SANITARY SEWER MANHOLE
ST	STREET
ST HWY	STATE HIGHWAY
STA	STATION
STD	STANDARD OR SEWER TILED DUCT
STL	STEEL
STM	STEAM
STOR	STORAGE
STP	STEEL PIPE
STR	STRAIGHT
STR GR	STRAIGHT GRADE
STRUCT	STRUCTURE
STY	STYRENE
SUB	SUBMITTED
SUPV	SUPERVISE OR SUPERVISOR
SURF	SURFACE
SW	SWITCH OR SOUNDWALL OR SIDEWALK
SWD	SIDEWALK DRAIN
SY	SQUARE YARD
SYM	SYMMETRICAL
TAN	TANGENT
T & B	TOP AND BOTTOM
TC	TILE CONDUIT, TOP OF CURB, TRACK CENTER, OR TRAIN CONTROL
TCC	TRAIN CONTROL/COMMUNICATIONS
TCCB	TRAIN CONTROL/COMMUNICATIONS BUILDING
TCCR	TRAIN CONTROL/COMMUNICATIONS ROOM
TD	TILE DUCT OR TILE DRAIN
TEL, T	TELEPHONE
TELE	TELESCOPING
TEMP	TEMPERATURE OR TEMPORARY
TERM	TERMINAL
TF	TOP OF FACE, TOP OF FOOTING
TG	TOP OF GRADE, TOP OF GRATE, OR TELEGRAPH
THEO	THEORETICAL
THK	THICK OR THICKNESS
TL	TRAFFIC LIGHT OR TOE LENGTH
TMH	TELEPHONE MANHOLE
TO	TURNOUT
TOP	TOP OF PIPE
TOPO	TOPOGRAPHY
TORW	TOP OF RETAINING WALL
TOS	TOP OF SLOPE
TOSW	TOP OF SOUND WALL
TP	POLICE TELEPHONE OR TRACTION POWER
TPS	TRACTION POWER SUBSTATION
TPSS	TRACTION POWER SUPPLY SYSTEM
T/R	TOP OF RAIL
TR	TRACT
TRANS	TRANSITION
TRD	TRANSIT DUCT
TRK	TRACK
TRPB	TRANSIT SHELTER PULLBOX
TS	TRAFFIC SIGNAL, TRANSITION STRUCTURE
TSC	TRAFFIC SIGNAL CONDUIT
TSCB	TRAFFIC SIGNAL CONTROL BOX
TSPB	TRAFFIC SIGNAL PULLBOX
TSS	TRAFFIC SIGNAL STANDARD
TV	TELEVISION
TVCC	TRANSPORTED VITRIFIED CLAY CONDUIT
TVM	TICKET VENDING MACHINE
T/W	TOP OF WALL
TYP	TYPICAL
UC	UNDERCROSSING OR UNDER CONSTRUCTION
UD	UNDERDRAIN
UG	UNDERGROUND
UNK	UNKNOWN
UNO	UNLESS NOTED OTHERWISE
UP	UNDERPASS OR COMBINATION POWER/TELEPHONE POLE
UPE	UNDER PLATFORM EXHAUST
UPRR	UNION PACIFIC RAILROAD
USA	UNDERGROUND SERVICE ALERT
V	VALVE, RATE OF SPEED, OR DESIGN SPEED
VAC	VACUUM
VAP	VERTICAL ANGLE POINT
VAR	VARIES OR VARIABLE
VB	VALVE BOX
VC	VERTICAL CURVE
VCC	VITRIFIED CLAY CONDUIT
VCD	VITRIFIED CLAY DUCT
VCP	VITRIFIED CLAY PIPE
VCP(ES)	VITRIFIED CLAY PIPE (EXTRA STRENGTH)
VCT	VITRIFIED CLAY TILE
VERT	VERTICAL
VLT	VAULT
VOL	VOLUME
W	WEST OR WATER, WIDER
W/	WITH
WATCH	WORK AREA TRAFFIC CONTROL HANDBOOK
WB	WESTBOUND
WD	WATER DETECTOR
W/E	WEST OF EAST RIGHT-OF-WAY LINE
WG	WHITE GAS
WHH	WATER HANDHOLE
WHSE	WAREHOUSE
WI	WROUGHT IRON
WID	WIDTH
WIP	WROUGHT IRON PIPE
WL	WATER LEVEL
WLKY	WALKWAY
WLN	WATER LINE
WM	WATER METER
WMH	WATER MAINTENANCE HOLE
W/O	WITHOUT
WP	WORKING POINT OR WORK POINT
WPJ	WEAKENED PLANE JOINT
WSP	WELDED STEEL PIPE
WSP(L)	WELDED STEEL PIPE (CEMENT LINED)
W'TERLY WTR	WESTERLY WATER
WTW	WALL TO WALL
WV	WATER VALVE
WW	WASTEWATER
W/W	WEST TO WEST RIGHT-OF-WAY LINE
X-DRAIN	CROSS DRAIN
X-ING	CROSSING
X-MITER	TRANSMITTER
X-OVER	CROSS OVER
X-SECT, XSEC	CROSS SECTION
XCONN	CROSS CONNECTION

SYMBOLS

ASPHALT CONCRETE PAVEMENT

AUTOMATIC GATE INTO PARKING AREA

BALLAST

BARRICADE POSTS, BOLLARDS

BASE COURSE

BEGIN OR END PLATFORM — BP OR EP

BENCH MARK

BILLBOARD

BLOCK WALL/ SOUNDWALL

BORING & NUMBER — BOR 17

BOX

BREAK LINE

BRIDGE

BUILDING

BUMPING POST

BUMPING POST NUMBER — 000

CANOPY

CATCH BASIN

CENTERLINE

CLEANOUT — CO

COLUMN, BENT

CONCRETE

CONCRETE BARRIER

CONCRETE CHANNEL

CONSTRUCTION EASEMENT (TEMPORARY)

CONTOUR LINES — 40 / 50

CONTROL POINT OR STREET INTERSECTION POINT — 4-7-1

COORDINATE GRID CROSSHAIR — E174000 N87000

CURB

CURB AND GUTTER

CURVE NUMBER — XXXX

CURVE POINT — PC,PT,PCC

DEPRESSION

DRAINAGE DITCH OR SWALE

DRAINAGE INLET

EXISTING DRIVEWAY / RAMP

PROPOSED DRIVEWAY

EDGE OF PAVEMENT — EP

EARTH

ELASTOMER

ELEVATION (EXISTING) — (175.20)

EMBANKMENT OR SLOPE — TOP OF SLOPE / BOTTOM OF SLOPE

EXISTING GROUND LINE

FENCE CHAIN LINK OR OTHER (EXISTING)

FENCE CHAIN LINK OR OTHER (NEW)

FIRE HYDRANT (EXISTING)

FIRE HYDRANT (RELOCATED)

FLAGPOLE — FP

FOUNDATION OR RUIN

GATE

GUARD RAIL

GRAVEL OR DIRT ROAD

GROUND ROD IN WELL

GUY POLE — GP

GUY WIRE

HANDICAPPED PARKING

HEADSPAN

HIGH VOLTAGE VAULT — HVV

HOSE BIB

LANE LINES

LIGHT POLE (EXISTING)

LIGHT POLE (RELOCATED)

LRT TCC SYSTEM HANDHOLE — CSE001

LRT TCC SYSTEM MAINTENANCE HOLE — CSE050

LINEWEIGHT VARIES PER PLAN

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HNTB
HNTB Corporation
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BUREAU OF ENGINEERING OFFICIAL RECORD

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ENGINEERING — CITY OF LOS ANGELES

NO.	REVISIONS:	DATE	BY:

STRUCTURE NO.

INDEX NO. D-34619

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

PROFESSIONAL ENGINEER — TAYLOR J. HENDERSON — No. 81237 — Exp. 9/30/15 — REGISTERED CIVIL ENGINEER — STATE OF CALIFORNIA

GARY LEE MOORE, P.E. — CITY ENGINEER

		DESIGN GROUP	DATE:
ENGINEER:	TAYLOR HENDERSON	LIC. NO. 81237	
DESIGNED BY:	TAYLOR HENDERSON		
DRAWN BY:	TAYLOR HENDERSON		
CHECKED BY:	TERENCE PAO		
APPROVED BY:	TERENCE PAO		

VERTICAL CONTROL: BM 12-04070, 1929 (NGVD 29) - 1985 ADJUSTMENT
HORIZONTAL CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: ABBREVIATIONS AND SYMBOLS 3 OF 4

PROJECT: SIXTH STREET VIADUCT REPLACEMENT

ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA

WORK ORDER NO. E700227F

DRAWING NO. G-207

SHEET 8 OF SHEETS

SYMBOLS

MAINTENANCE HOLE	SMH, EMH / TMH ETC
MATCH LINE	
METER BOX	WM
OIL WELL	
ORCHARD	
OVERHEAD SIGN	
OVERHEAD WIRES AND CABLES	
PARKING METER	
PARKING SPACES	
PERFORATED SUBDRAIN	
PICTURE CENTER	P C 1 4
PLANTER	
PLATFORM / STATION	
POST WITH LIGHT & TRAFFIC SIGNAL (EXISTING)	
POST WITH LIGHT & TRAFFIC SIGNAL (RELOCATED)	
POWER POLE (EXISTING)	
POWER POLE (RELOCATED)	
RAILROAD CROSSING GATE	
RIDGE	R
RIGHT-OF-WAY	R/W

SAND	
SEWER, WATER OR GAS ENCASEMENT	
SIDEWALK, CONCRETE	
SHRUBBERY	
SOUNDWALL	
SPA	S
SPOT ELEVATION	175.2
STANDPIPE	SP
STEEL	
STREET LIGHT	
SUBBALLAST	
SUBGRADE EARTH	
SURVEY MONUMENT	
TANK	T
TRACK AND/OR CENTER LINE	10+00
TRACTION POWER MANHOLE	TPN000
TRACTION POWER SUBSTATION	TPS
TRAFFIC SIGNAL (EXISTING)	
TRAFFIC SIGNAL (RELOCATED)	
TRANSIT SIGNAL	
TREE	

UNDERDRAIN	UD
UTILITY BOX	UB
UTILITY POLE (EXISTING)	
UTILITY POLE (RELOCATED)	
VALVE, VENT	V, WV
WATER OR GAS VALVE COVER	GV
VINEYARD	
WALL (EXISTING)	
NEW WALL	
WELL	WELL
WOOD	
WORK POINT	
EXIST	&
PROPOSED	

LINEWEIGHT VARIES PER PLAN

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P.E. CITY ENGINEER
GARY LEE MOORE, P.E.
DATE:
LIC. NO. 81237

DESIGN GROUP	
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DESIGNED BY:	TAYLOR HENDERSON
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WORK ORDER NO.
E700227F

DRAWING NO.
G-208

SHEET 9 OF SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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CONSTRUCTION NOTES

NO.	DESCRIPTION	DIMENSION (IF APPLICABLE)	STANDARD PLAN (IF APPLICABLE)
1	CONCRETE CURB (TYPE A CURB)	CF & b AS SHOWN ON PLANS	S-410-2
1A	CONCRETE ROLLED CURB	AS SHOWN ON PLANS	PER PLAN DETAIL
2	TYPE C INTEGRAL CURB & GUTTER	b, a & CF AS SHOWN ON PLANS	S-410-2
2A	TYPE E INTEGRAL CURB & GUTTER	a, b, & CF AS SHOWN ON PLANS	S-410-2
3	TYPE F INTEGRAL CURB & PAVEMENT	b & c AS SHOWN ON PLANS	S-410-2
3A	TYPE C (MOD) REVERSED INTEGRAL CURB & GUTTER	b & c AS SHOWN ON PLANS	S-410-2 (PER PLAN DETAIL)
4	CONCRETE GUTTER	b, a SEE PLAN	S-410-2
5	CONCRETE LONGITUDINAL GUTTER	b, g SEE PLAN	S-410-2
6	CONCRETE INTERSECTION GUTTER	b, a, g SEE PLAN	S-410-2
7	BUS PAD	L=90', P=12', t=8", W=12'	S-433-0
8	CONCRETE PAVEMENT	t=AS SHOWN ON PLANS	S-430-1
9	STREET OR ALLEY PER TYPICAL SECTION	W=20, R=10, t=6", TYPE A	
10	CONCRETE DRIVEWAY	t=6", *f*" LIP	S-440-3
11	CONCRETE ALLEY INTERSECTION		S-420-2
12	CONCRETE WALK	t=4"	
	LEFT BLANK INTENTIONALLY		
13	CURB RAMP	CASE AS SHOWN ON PLAN, 0"=CF (LIP), W=4' TRUNCATED DOME ON "W"	S-442-3
14	ASPHALT CONCRETE PAVEMENT	t=AS SHOWN ON PLAN	
15	ASPHALT CONCRETE BERM PER DETAIL		
16	CRUSHED MISCELLANEOUS BASE	t=SEE PLAN	
17	ADJUST MAINTENANCE HOLE TO GRADE	SEE PLAN	
18	METAL BEAM GUARDRAIL	LIN FT	S-462-2
19	RECONSTRUCT MAINTENANCE HOLE TO GRADE		
20	REMOVE TREE	DIA, STATION, OFFSET TO CL	
21	COLD PLANE (MILL) AC PAVEMENT TO 2" MIN AT GRINDING LIMITS AND\OR 2" MIN BELOW FINAL GRADE.	t=2"	
22	EXTRUDED ASPHALT CONCRETE (AC) CURB		S-412-0
23	GRADE ONLY		
24	PLANT TREE		
25	TREE WELL COVER - TYPE A	TYPE A-2	S-455-2
26	TREE WELL	TYPE 2	S-456-2
27	GEOTEXTILE		
28	JOINT	AS SHOWN ON PLAN	S-430-1
29	CURB DRAIN	CASE, A, N	SPPWC 150-2
30	WOODEN WARNING RAILING		S-464-0
31	PIPE HANDRAIL		S-463-2
32	GRIND CONCRETE PAVEMENT		
33	RELOCATE PARKING METER		
34	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT	t=2" MIN	
35	INSTALL GUIDE MARKER	POLE NUMBER	
36	RELOCATE UTILITY POLE	POLE NUMBER	
37	RELOCATE POLE ANCHOR		
38	RELOCATE AND/OR ADJUST STREET LIGHTING PULL BOX TO GRADE		
39	RELOCATE AND/OR ADJUST TRAFFIC SIGNAL PULL BOX TO GRADE		
40	RELOCATE AND/OR ADJUST CATV PULL BOX TO GRADE		
41	RELOCATE AND/OR ADJUST FIRE HYDRANT TO GRADE		
42	RELOCATE AND/OR ADJUST ELECTROLIER TO GRADE		
43	RELOCATE AND/OR ADJUST DWPPS VENT TO GRADE		
44	RELOCATE AND/OR ADJUST DWPPS MAINTENANCE HOLE TO GRADE		
45	RELOCATE AND/OR ADJUST DWPWS MAINTENANCE HOLE TO GRADE		
46	RELOCATE AND/OR ADJUST WATER METER TO GRADE		
47	RELOCATE STREET SIGN (SEE TRAFFIC SIGNAL PLANS)		
48	3.0' RADIUS WRAP AROUND CURB		S-440-3 CASE 4
49	TRAFFIC SIGNAL CABINET		
50	TELEPHONE MAINTENANCE HOLE		
51	ELECTRICAL VAULT		
52	ELECTRICAL MAINTENANCE HOLE		
53	GAS VALVE		
54	RAILROAD CROSSING EQUIPMENT		
55	ADJUST WATER VALVE COVER TO FINAL GRADE		
56	RELOCATE AND/OR ADJUST DWPPS POLE TO GRADE		
57	RELOCATE AND/OR ADJUST STREET LIGHTING POLE TO GRADE		
58	RELOCATE AND/OR ADJUST TRAFFIC SIGNAL POLE TO GRADE		
59	ELECTROLIER--SEE STREET LIGHTING PLANS		
60	TRUNCATED DOMES		S-442-3
61	MAIL BOX		
62	TELEPHONE BOX		
63	GUY WIRE		
64	RETAINING WALL		
65	CHAIN LINK FENCE		
66	CONCRETE MASONRY BLOCK WALL		
67	CONCRETE STEPS		
68	CHAIN LINK GATE		
69	TACTILE WARNING		S-442-3
70	SIGN AND POST		
71	CONCRETE BARRIER		
72	MOUNTABLE EMBEDDED CURB.		PER DETAIL ON DWG CC-A-210
73	NOT IN USE		
74	BILLBOARD		
75	WATER VALVE & COVER		
76	REMOVE STRUCTURAL CONCRETE SLAB		
77	SAWCUT LINE & JOIN		S-430-1
78	GRATING CATCH BASIN - ALLEY (LONGITUDINAL) (AGB)	NO. OF GRATINGS, V, Vi, A	SPPWC 304-2
79	REINFORCED CONCRETE PIPE (RCP)	DIAMETER, D-LOAD	S-241-0

CONSTRUCTION NOTES CONT:

NO.	DESCRIPTION	DIM. (IF APPLICABLE)	STANDARD PLAN (IF APPLICABLE)
80	PAVEMENT REMODELING AT CATCH BASIN	FOR X,Y,Z SEE PLAN	
81	CURBSIDE GRATING CATCH BASIN (CGB)	NO. OF GRATINGS, V, Vi, H, A	S-354-0, SPPWC 303-2
82	REINFORCED CONCRETE RETAINING CURB		
83	CORRUGATED STEEL PIPE	DIAMETER AND GAUGE	
84	REINFORCED CONCRETE BOX	S, L, H	
85	STORM DRAIN MAINTENANCE HOLE	TYPE "EZ"	S-381-0
86	LOCAL DEPRESSION AT CATCH BASIN	CASE, H, H1, H2, H3	SPPWC 313-2
87	CURB OPENING CATCH BASIN WITH GRATING(s)	NO. OF GRATINGS, A, V, Vi, H	SPPWC 302-2
88	CURB OPENING CATCH BASIN W/ GRATING(s) AND DEBRIS SKIMMER	NO. OF GRATINGS, A, V, Vi, W, H	S-354-0, SPPWC 303-2
89	CURB OPENING CATCH BASIN AT DRIVEWAY	A, V, Vi, W	SPPWC 306-2
92	SIDEWALK OUTLET STRUCTURE		
94	CATCH BASIN REMODELING DETAILS		S-343-1
98	MONOLITHIC CATCH BASIN CONNECTION	A	S-331-1, SPPWC 308-1
99	CURB OPENING CATCH BASIN OR SIDE OPENING CATCH BASINS	V, Vi, W, H, A	S-351-1, SPPWC 300-2
100	PERFORATED HDPE UNDERDRAIN	DIA, SCHEDULE	S-254-1
101	UNDERDRAIN CLEANOUT		
102	MANHOLE - CONCRETE BOX STORM DRAIN	M	SPPWC 323-1
103	YARD INLET		SPPWC 350-1
104	CONCRETE COLLAR FOR RCP "SD PIPE"	A	S-372-1, SPPWC 380-3
105	PARKWAY DRAIN	D1, D2, L, STA & ELEV	SPPWC 151-1
106	JUNCTION STRUCTURE - PIPE TO PIPE (INLET ID > 24" OR OD > ½ MAIN LINE ID)	A, B, C, D, ELEV R, ELEV S	S-302-1 JS "B", SPPWC 331-2
107	JUNCTION STRUCTURE - PIPE TO PIPE INLET (ID < 24")	CASE	S-303-0, SPPWC 332-1
108	JUNCTION STRUCTURE - PIPE TO RCB	A, B, C, ELEV R, ELEV S	S-301-1, SPPWC 333-1
109	MAINTENANCE HOLE - PIPE TO PIPE (MAINLINE ID = 36" OR LARGER)	D1, D2, M	S-381-0, SPPWC 320-1
110	MAINTENANCE HOLE - PIPE TO PIPE (ONE OR BOTH MAINLINE IDs 33" OR SMALLER)	M, H	S-381-0, SPPWC 321-1
111	MAINTENANCE HOLE - PIPE TO PIPE (LARGE SIDE INLET)	A, B, C, D1, D2, M , ELEV R, ELEV S	S-384-0, SPPWC 322-1
112	PIPE CONNECTION TO EXISTING STORM DRAINS	CASE	SPPWC 335-1
113	TRANSITION STRUCTURE - PIPE TO PIPE	A, B, C, D1, D2	S-372-1, SPPWC 340-1
114	TRANSITION STRUCTURE - "C"	D1, D2, STA, ELEV	S-372-1
115	GRATING CATCH BASIN - ALLEY (TRANSVERSE)	NO. OF GRATINGS V, V1, A	S-355-0, SPPWC 305-2
116	CURB OPENING CATCH BASIN WITH MAINTENANCE HOLE IN STREET	CASE V, V1, H, A	SPPWC 307-2
117	MODIFICATIONS FOR SIDE OPENING CATCH BASINS	CASE	SPPWC 314-2
118	18" INLINE DRAIN		
119	24" INLINE DRAIN		
121	PVC PIPE	DIA, SCHEDULE	
122	RIP RAP ENERGY DISSIPATER AND OUTFALL PROTECTION		
123	UNDERDRAIN PERFORATED PVC OR HDPE PIPE		CALTRANS STD PLAN D102
124	UNDERDRAIN TERMINAL CLEANOUT		CALTRANS STD PLAN D102
125	FLARED END SECTION		CALTRANS STD PLAN D94B
126	CRASH CUSHION		
127	MANUAL LOCKABLE SWING GATE		
131	SEWER PIPE	DIA	
132	VITRIFIED CLAY PIPE (VCP) EXTRA STRENGTH	DIA	PER GREEN BOOK AND BROWN BOOK
133	CAST-IN-PLACE PIPE		
134	PRECAST CONCRETE CATCH BASIN		
136	SEWER MAINTENANCE HOLE (PRECAST)	STD PLAN DESIGNATION	S-140-0, S-142-0, S-150-0
137	HOUSE CONNECTION SEWER (HC)	A, B, H, TYPE, DIAM, ELEV E, ELEV F	S-111-0, S-110-1, SPPWC 222-1
138	MORTAR PLUG (2 COURSE BRICK AND MORTAR)		S-627-0; SADDLE
139	SEWER DROP MAINTENANCE HOLE	D	S-148-1, SPPWC 202-1
140	UTILITY TRENCH PAVEMENT PATCH		PER GREEN BOOK AND BROWN BOOK
141	SEWER MAIN - GENERAL		S-140-0 & S-142-0, SPPWC 208-1
142	PIPES LAYING IN TRENCHES		S-251-1
143	ADJUST SEWER MAINTENANCE HOLE TO GRADE		S-137-1
145	HOUSE CONNECTION REMODELING	CASE	S-111-0
146	TERMINAL CLEANOUT STRUCTURE	D, ELEV E	S-164-0, SPPWC 204-1
147	SURVEY MONUMENT		
148	CALTRANS DRAINAGE INLETS	TYPE, H	CALTRANS STD D73
151	SUPPORT FOR CONDUITS ACROSS TRENCHES	SPAN "S"	S-253-0, SPPWC 224-1
152	BLANKET PROTECTION FOR PIPES		S-255-1, SPPWC 225-1
153	JUNCTION STRUCTURE - PIPE TO RCB (INLET ID <30")	CASE, A	S-302-1, SPPWC 334-1
154	TRANSITION STRUCTURE RCB TO PIPE		S-372-1, SPPWC 342-1
160	STEEL STEP FOR CONCRETE STRUCTURE		S-348-1, SPPWC 635-2
161	WATER QUALITY TREATMENT BMP; BIORETENTION WITH UNDERDRAIN OR BIOFILTRATION SWALE		
162	WATER QUALITY TREATMENT BMP; BIORETENTION (PLANTER BOX) OR INLET INSERTS IN DECK DRAINS		
163	CATCH BASIN REINFORCEMENT		S-341-0, SPPWC 309-1
164	CATCH BASIN PROTECTION BAR & SUPPORT		S-349-2, SPPWC 310-2
165	FRAME AND GRATING FOR CATCH BASIN (BICYCLE SAFE)		S-342-4, SPPWC 311-2
166	MANHOLE SHAFT WITH ECCENTRIC REDUCER		S-381-0, SPPWC 324-1
167	MANHOLE SHAFT SAFETY LEDGE		SPPWC 330-1, SPPWC 330-1
168	FRAME AND GRATING FOR CATCH BASIN (ADA COMPLIANCE)		S-342-4
169	POLYPROPYLENE PLASTIC STEP		SPPWC 636-1
170	MANHOLE FOR EXISTING RCB		
173	HIGH DENSITY POLYETHYLENE PIPE (HDPE)		
177	TOP OF WALL GUTTERS & DRAIN DETAILS		S-503-2
178	SINGLE STRAIGHT HEADWALL		CALTRANS D-89
179	ABANDONMENT SEALS FOR MH & INLETS		PER GREEN BOOK AND BROWN BOOK, SPPWC 381-1
181	INSTALL BLIND WYE & PLUG		S-110-1
182	CALTRANS DRAINAGE INLETS	TYPE, OL	CALTRANS STD D72
183	ROOF DRAINS		

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STRUCTURE NO.

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GARY LEE MOORE, P.E. CITY ENGINEER

DESIGN GROUP		DATE:	
ENGINEER:	TAYLOR HENDERSON	LIC. NO.	81237
DESIGNED BY:	TAYLOR HENDERSON		
DRAWN BY:	TAYLOR HENDERSON		
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SHEET TITLE: CONSTRUCTION SYMBOLS AND NOTES

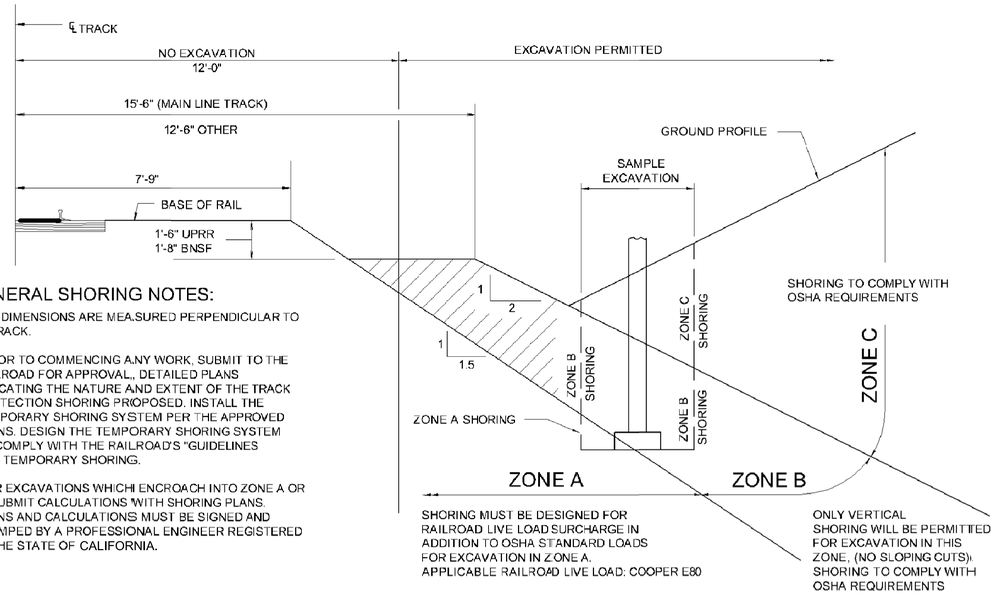
PROJECT: SIXTH STREET VIADUCT REPLACEMENT

ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD)
LOS ANGELES, CA

WORK ORDER NO.
E700227F

DRAWING NO.
G-209

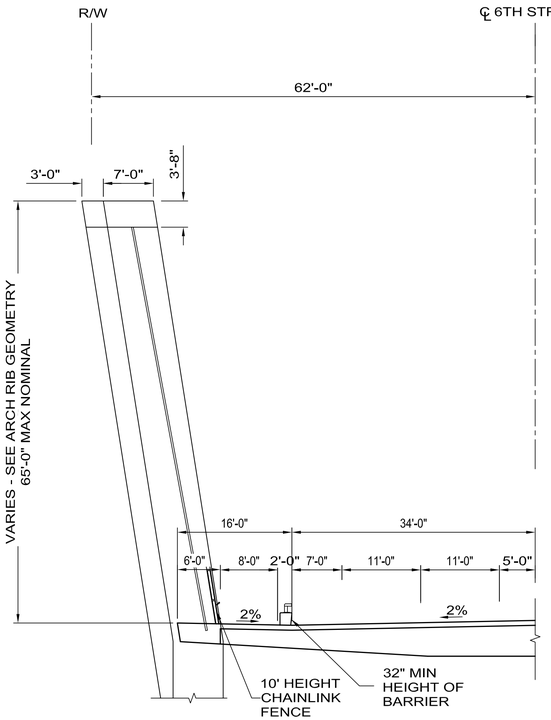
SHEET 10 OF SHEETS

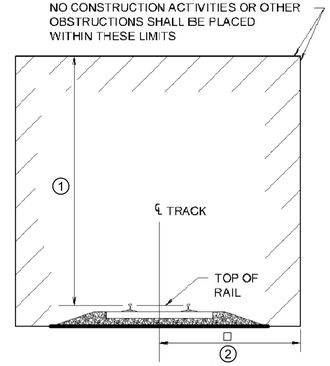


GENERAL SHORING NOTES:

1. ALL DIMENSIONS ARE MEASURED PERPENDICULAR TO ℄ TRACK.
2. PRIOR TO COMMENCING ANY WORK, SUBMIT TO THE RAILROAD FOR APPROVAL, DETAILED PLANS INDICATING THE NATURE AND EXTENT OF THE TRACK PROTECTION SHORING PROPOSED. INSTALL THE TEMPORARY SHORING SYSTEM PER THE APPROVED PLANS. DESIGN THE TEMPORARY SHORING SYSTEM TO COMPLY WITH THE RAILROAD'S "GUIDELINES FOR TEMPORARY SHORING.
3. FOR EXCAVATIONS WHICHI ENCROACH INTO ZONE A OR B, SUBMIT CALCULATIONS WITH SHORING PLANS. PLANS AND CALCULATIONS MUST BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.

GENERAL EXCAVATION ZONES





MINIMUM CONSTRUCTION
CLEARANCE ENVELOPE

(NORMAL TO RAILROAD)

	①	②
MTA	21'-0"	15'-0"
AMTRAK	21'-0"	8'-6"
BNSF	21'-0"	15'-0"
METROLINK (E)	22'-6"	15'-0"
METROLINK (W)	22'-6"	15'-0"
UPRR	21'-6"	12'-0"

RAILROAD GENERAL NOTES:

1. RAILROAD REVIEW AND APPROVAL OF SHORING, ERECTION, DEMOLITION, AND FALSEWORK IS REQUIRED. ALLOW A MINIMUM OF FOUR WEEKS FOR THE REVIEW AND APPROVAL OF EACH SUBMITTAL.
2. THE PROPOSED GRADE SEPARATION PROJECT SHALL NOT INCREASE THE QUANTITY AND/OR CHARACTERISTICS OF THE FLOW IN THE RAILROAD'S DITCHES AND/OR DRAINAGE STRUCTURES.
3. THE ELEVATION OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RAILROAD PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SEDIMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD.
5. ALL SHORING SYSTEMS THAT IMPACT THE RAILROAD'S OPERATIONS AND/OR SUPPORTS THE RAILROAD'S EMBANKMENT SHALL BE DESIGNED AND CONSTRUCTED PER CURRENT RAILROAD GUIDELINES FOR TEMPORARY SHORING.
6. ALL DEMOLITIONS WITHIN THE RAILROAD'S RIGHT-OF-WAY AND/OR DEMOLITION THAT MAY IMPACT THE RAILROAD'S TRACKS OR OPERATIONS SHALL BE IN COMPLIANCE WITH THE RAILROAD'S DEMOLITION GUIDELINES.
7. ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTION TO THE RAILROAD'S OPERATION, ENABLING THE TRACK(S) TO REMAIN OPEN TO TRAFFIC PER THE RAILROAD'S REQUIREMENTS.
8. ALL CONSTRUCTION PHASING THAT MAY IMPACT THE RAILROAD OPERATIONS SHALL BE DESIGNED TO CAUSE NO INTERRUPTION TO THE RAILROAD'S OPERATION, ENABLING THE TRACK(S) TO REMAIN OPEN TO TRAFFIC PER THE RAILROAD'S REQUIREMENTS.
9. FALSE-WORK CLEARANCES SHALL COMPLY WITH MINIMUM CONSTRUCTION CLEARANCES.
10. ALL PERMANENT CLEARANCES SHALL BE VERIFIED BEFORE PROJECT CLOSING.
11. FOR RAILROAD COORDINATION REFER TO THE RAILROAD COORDINATION REQUIREMENTS AS PART OF SPECIAL PROVISIONS.
12. SUBSEQUENT STAGES, UP TO AND INCLUDING THE FINAL SIGNED AND STAMPED PLANS, OF THIS PROJECT ARE SUBJECT TO THE REVIEW AND APPROVAL OF UPRR. REFER TO UPRR / BNSF GUIDE LINES.
13. RAILROAD REVIEW AND APPROVAL OF SHORING, DEMOLITION AND FALSE WORK PLANS ARE REQUIRED PRIOR TO THEIR COMMENCEMENT.
14. DETAILED DEMOLITION PLANS SHALL BE SUBMITTED TO UPRR FOR REVIEW AND APPROVAL.
   A. DEMOLITION PLANS SHALL BE PLANNED TO AVOID INTERRUPTING RAILROAD OPERATIONS
   B. DEBRIS WILL NOT BE PERMITTED TO FALL DIRECTLY ONTO RAILROAD RIGHT-OF-WAY. TEMPORARY TRACK SHIELDS SHALL BE PROVIDED FOR SECONDARY PROTECTION ONLY. DEBRIS SHALL BE CONTAINED WITHIN PRIMARY PROTECTION SYSTEM AND/OR BRIDGE COMPONENTS SHALL BE CUT INTO SECTIONS AND REMOVED.
   C. FURTHER COORDINATION WITH THE LOCAL SERVICE UNIT WILL BE NECESSARY FOR CONSTRUCTION ACCESS, AC PAVEMENT INSTALLATION, TEMPORARY CROSSINGS OVER YARD TRACK, TRACK PROTECTION, ETC.

FOR WORK WITHIN SCRRA ROW:

1. CONTRACTOR SHALL NOTIFY SCRRA'S CONTRACTOR AT (714) 920-9037 A MINIMUM OF 15 DAYS PRIOR TO BEGINNING WORK ON THE RIGHT OF WAY TO ARRANGE FOR FLAGGING SERVICES. PRIOR TO NOTIFICATION FOR SAFETY PROTECTION DOES NOT GUARANTEE THE AVAILABILITY OF PROTECTIVE SERVICES FOR THE PROPOSED DATE OF WORK.
2. TEMPORARY RIGHT OF ENTRY AGREEMENT, SCRRA FORM 6, IS A REQUIREMENT OF WORKING ON OR ADJACENT TO THE SCRRA RIGHT OF WAY. THE CONTRACTOR SHALL CONTACT SCRRA PERMIT AND ROW ENCROACHMENTS COORDINATOR
   SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY (METROLINK)
   2558 SUPPLY STREET, POMONA, CALIFORNIA 91767
   (909) 392-8463
3. SCRRA IS NOT A MEMBER OF DIGALERT, CONTRACTOR SHALL CALL SCRRA'S SIGNAL DEPARTMENT AT (909) 592-1346 A MINIMUM OF 5 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION TO MARK SIGNAL AND COMMUNICATION CABLES AND CONDUITS. TO ASSURE CABLES AND CONDUITS HAVE BEEN MARKED, NO WORK MAY PROCEED UNTIL YOU HAVE BEEN PROVIDED WITH AN SCRRA DIG NUMBER. IN CASE OF SIGNAL EMERGENCIES OR GRADE CROSSING PROBLEMS, THE CONTRACTOR SHALL CALL SCRRA'S 24-HOUR SIGNAL EMERGENCY NUMBER 1-800-446-9721
4. THE CONTRACTOR AND HIS SUBCONTRACTORS; CITY AND THEIR CONSULTANTS AND INSPECTORS AND OTHER INTERESTED PARTIES HAVING A NEED TO ENTER THE RIGHT OF WAY SHALL BE REQUIRED TO ATTEND A SCRRA SAFETY ORIENTATION CLASS PRIOR TO RECEIVING PERMISSION TO ENTER THE RIGHT OF WAY. CONTRACTOR SHALL NOTIFY SCRRA'S CONTRACTOR AT 1-877-452-0205 TO ARRANGE FOR THIRD PARTY SAFETY TRAINING.
5. MAXIMUM ALLOWABLE TRAIN SPEEDS ARE WEST BANK 79 MPH PASSENGER & 40 MPH FREIGHT AND EAST BANK 70 MPH PASSENGER & 30 MPH FREIGHT.
6. NO EQUIPMENT, TRUCKS OR MATERIAL ARE ALLOWED TO BE STORED ON THE RAILROAD RIGHT-OF-WAY.
7. THE APPLICANT AND/OR THE CONTRACTOR SHALL FOLLOW SCRRA RULES AND REGULATIONS ADDRESSED IN "RULES AND REQUIREMENTS FOR CONSTRUCTION ON RAILWAY PROPERTY" (SCRRA FORM 37)
8. THE CONTRACTOR WILL BE REQUIRED TO MONITOR THE EXCAVATION AND SHORING OPERATIONS TO ENSURE THAT THE TRACK(S) ARE NOT MOVING IN ACCORDANCE WITH SECTION 9 OF THE SCRRA EXCAVATION SUPPORT GUIDELINES.

BUREAU OF ENGINEERING
OFFICIAL RECORD

HNTB
HNTB Corporation
601 W. 5TH STREET SUITE 1000
LOS ANGELES, CALIFORNIA 90071
TEL (213) 403-1000 FAX (213) 403-1001

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12/14/2015

BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES
NO. REVISIONS: DATE: BY:
STRUCTURE NO.
INDEX NO. D-34619
PROFESSIONAL ENGINEER REGISTERED TAYLOR J. HENDERSON No. 81237 Exp. 9/30/15 CIVIL
"THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED"
CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
GARY LEE MOORE, P.E. CITY ENGINEER
DATE:
LIC. NO. 81237
DESIGN GROUP
ENGINEER: TAYLOR HENDERSON
DESIGNED BY: MICHAEL JONES
DRAWN BY: TAYLOR HENDERSON
CHECKED BY: TAYLOR HENDERSON
APPROVED BY:
VERTICAL CONTROL: BM 12-04070, 1929 (NGVD 29) - 1985 ADJUSTMENT
HORIZONTAL CONTROL: GPS: PID AE 1704, EPOCH 1991.35
SHEET TITLE: RAILROAD GENERAL NOTES
PROJECT: SIXTH STREET VIADUCT REPLACEMENT
ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA
WORK ORDER NO. E700227F
DRAWING NO. G-210
SHEET 11 OF SHEETS

Basic Excavation Requirements

Any proposed excavation that may occur in SCRRA Right-of-Way or that may affect operations on SCRRA tracks must adhere to the design, submittal and review requirements presented in these Guidelines and shall not proceed without acceptance by SCRRA.

RAILROAD ZONE OF INFLUENCE

The Railroad Zone of Influence is defined on Figure 2-1. The area below the Influence Line is divided into four zones. Requirements and limitations for excavation and temporary excavation support systems within each zone are described in detail below. Excavation requirements apply on or off of SCRRA Right-of-Way. Excavation beyond the Railroad Zone of Influence shall satisfy OSHA and other applicable requirements.

ZONE 1:

- **Excavation is prohibited.**
- Alternates to shored excavations shall be utilized. Potential alternates include temporary relocation of the tracks away from the area of excavation or completion of excavation and backfilling work during an Exclusive Track Window that has been planned and approved in advance by SCRRA. Requirements for requesting an Exclusive Track Window are provided in Section 10.2. Minimum requirements for excavation and backfill work within Zone 1 are provided in Section 2.2. Prior to beginning any shoring SCRRA will typically require that the track be removed and hot mix asphalt concrete (HMAC) sub-ballast layer be placed, 8 inches thick, 12 feet wide (centered on the track centerline) and extending 20 feet in each direction past the length of the shored excavation. SCRRA shoofly requirements are provided in the SCRRA Design Criteria Manual.

ZONE 2:

- **No excavation or temporary shoring installation will be allowed without the special written permission of SCRRA.** Requirements for requesting a variance are provided in Section 10.3. Additional requirements for excavation and shoring within Zone 2 are provided in Section 2.2.
- Alternates to shored excavations shall be utilized when practical.
- If SCRRA grants a variance to allow excavation, vertical excavation with continuous shoring walls is required. Shoring installation shall be complete prior to any excavation. Design of the shoring system shall include lateral surcharge due to railroad live load.
- Prior to beginning any shoring SCRRA will typically require that the track be removed and hot mix asphalt concrete (HMAC) sub-ballast layer be placed, 8 inches thick, 12 feet wide (centered on the track centerline) and extending 20 feet in each direction past the length of the shored excavation.
- Examples of continuous shoring wall types include interlocked sheet piling or diaphragm walls. Diaphragm wall types include deep soil mix walls, secant pile walls, tangent pile walls, and slurry walls. Soldier piles and lagging are not allowed if excavation is necessary to install lagging.

ZONE 3:

- **Excavation requires temporary shoring.** Excavations shall be vertical. Continuous shoring walls installed prior to any excavation are preferred. Maximum excavation lifts shall be limited to five (5) feet for each stage of excavation for soldier pile and lagging walls or any other type of shoring that requires excavation of an open soil face prior to installing continuous support elements.
- If the shored excavation is 15 feet or less from the centerline of the track, prior to beginning any shoring SCRRA may require that the track be removed and hot mix asphalt concrete (HMAC) sub-ballast layer be placed, 8 inches thick, 12 feet wide (centered on the track centerline) and extending 20 feet in each direction past the length of the shored excavation.
- **Design of the shoring system shall include lateral surcharge due to railroad live load.**

ZONE 4:

- Excavation requires temporary shoring.
- Lateral surcharge due to railroad live load need not be considered in the shoring design.
- The excavation shall be provided with a shoring system that actively supports the sides of the excavation and prevents the excavation faces from unraveling or moving. Sloped excavations are not permitted.
- Hydraulic and mechanical trench shores with sheeting, trench shields, and timber shoring may be utilized. However, installation of the shoring system must be completed before movement of trains is allowed on the adjacent track. Work Windows within which the shoring system installation must be completed shall be coordinated with SCRRA.

EXCAVATIONS BEYOND INFLUENCE LINE:

- Lateral surcharge due to railroad live load need not be considered in the shoring design.
- Shored vertical excavations are preferred. Sloped excavations are discouraged. SCRRA may require slope stability analysis for sloped excavations.
- Excavation and temporary shoring shall comply with Cal/OSHA and other applicable requirements.

Excavations shall also comply with the following:

- Finished excavation surfaces shall be in uniform planes, with no abrupt breaks.
- Positive drainage shall be maintained away from the tracks and track subgrade at all times.
- Backfilling materials, procedures, placement and performance criteria shall meet the requirements of SCRRA Standard Specifications for Earthwork Section 02300 and other applicable specification including hot mix asphalt concrete sub-ballast and aggregate base sub-ballast.

Jacking and receiving pits for installation of culverts or utility casings shall be a minimum of 25 feet from centerline of the nearest active track. Construction activities on SCRRA Right-of-Way and excavations for jacking and/or boring operations shall comply with all other provisions of these Guidelines as applicable.

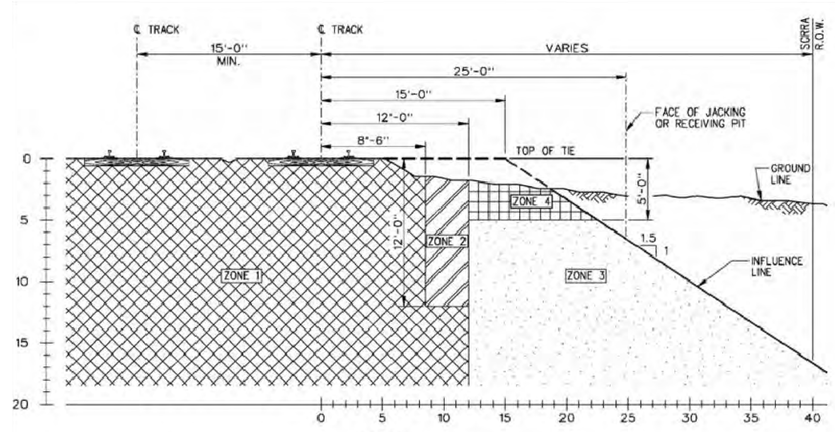


Figure 2-1: Railroad Zone of Influence

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HNTB
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BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

NO. | REVISIONS: | DATE | BY:

STRUCTURE NO.

INDEX NO. D-34619

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

PROFESSIONAL ENGINEER
TAYLOR J. HENDERSON
No. 81237
Exp. 9/30/15
REGISTERED

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GARY LEE MOORE, P.E. CITY ENGINEER
DATE:
ENGINEER: TAYLOR HENDERSON LIC. NO. 81237
DESIGN GROUP
DESIGNED BY: MICHAEL JONES
DRAWN BY: TAYLOR HENDERSON
CHECKED BY: TAYLOR HENDERSON
APPROVED BY:

VERTICAL CONTROL: BM 12-04070,1929 (NGVD 29) - 1985 ADJUSTMENT
HORIZONTAL CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: RAILROAD GENERAL NOTES

PROJECT: SIXTH STREET VIADUCT REPLACEMENT

ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA

WORK ORDER NO. E700227F

DRAWING NO. G-211

SHEET 12 OF SHEETS

LANE CLOSED	ROAD WORK AHEAD	DETOUR AHEAD	ROAD CLOSED AHEAD	RAMP CLOSED	SHOULDER CLOSED	THRU TRAFFIC MERGE RIGHT	FWY DETOUR	FWY DETOUR	FWY DETOUR	END DETOUR	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR	ONLY			USE CROSSWALK	USE CROSSWALK	SIDEWALK CLOSED	SIDEWALK CLOSED AHEAD CROSS HERE	END ROAD WORK	101
C30 (CA) 36" x 36"	W20-1 36" x 36"	W20-2 36" x 36"	W20-3 36" x 36"	W20-3(ALT) 36" x 36"	C30A (CA) 36" x 36"	W4-7 (RT) AHEAD	SC9(CA)(UP) 36" x 36"	SC9(CA)(LT) 36" x 36"	SC9(CA)(RT) 36" x 36"	M4-8a	M4-9(RT)	M4-9(LT)	M4-9b(RT)	M4-9b(LT)	M4-10(RT)	M4-10(LT)	R3-5(RT) 36" x 45"	R3-18 30" x 30"	R9-3a 18" x 18"	R9-3b(LT) 18" x 12"	R9-3b(RT) 18" x 12"	R9-9	R9-11(RT)	G20-2	G26-2(CA)
NORTH	SIDEWALK CLOSED AHEAD CROSS HERE	ROAD CLOSED	DETOUR	RAMP CLOSED	ROAD CLOSED TO THRU TRAFFIC	Type P(CA) or TP(R) 12" x 36"	W1-6(LT) W1-6(RT) 48" x 24"	W1-7 48" x 24"	SIDEWALK CLOSED AT COTNER CROSS HERE	SIDEWALK CLOSED AT COTNER CROSS HERE	USE SOUTHSIDE SIDEWALK	USE NORTHSIDE SIDEWALK													
M3-1 24" X 12"	R9-11(LT)	R11-2	SC3(CA)	R11-2 (ALT)	R11-4				R9-11(LT)(MOD)	R9-11(RT)(MOD)	SIGN "A"	SIGN "B"													

WORKSITE TRAFFIC CONTROL NOTES:

1. THIS PLAN SET IS FOR THE CONSTRUCTION OF THE SIXTH STREET VIADUCT REPLACEMENT PROJECT. THE PROJECT INCLUDES DETOURS AND TRAFFIC HANDLING PLANS FOR THE EXISTING VIADUCT DEMOLITION AND NEW VIADUCT CONSTRUCTION.
2. EXPECTED START DATE IS SEPTEMBER 2015 FOR THE DURATION OF APPROXIMATELY 42 MONTHS.
   - CONTRACTOR TO MAINTAIN VIADUCT CLOSURE DETOUR PLAN THROUGHOUT COMPLETION OF CONSTRUCTION.
   - INDIVIDUAL CLOSURES AND DETOURS AT LOCAL STREETS WILL BE INTERMITTENT AS REQUIRED FOR CONSTRUCTION.
   -MISSION RD, ANDERSON ST, AND CLARENCE ST SHALL NOT BE CLOSED CONCURRENTLY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND MATERIAL INVOLVED IN THE REMOVAL, INSTALLATION, AND MAINTENANCE OF ALL STRIPING, PAVEMENT MARKINGS, SIGNING, BARRICADING, DELINEATORS, ETC., SHOWN ON THESE DETOUR PLANS AND AS CONSTRUCTION STAGING NECESSITATES. LINES AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING/GRIDING IN ACCORDANCE WITH THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT) SPECIFICATION NO. 79-016-10. PAINTING THE EXISTING STRIPING OVER WITH BLACK PAINT IS NOT PERMITTED. TEMPORARY REFLECTIVE PAVEMENT MARKERS (SEE LADOT STANDARD PLANS. S-453.0) SHALL BE MAINTAINED BY THE CONTRACTOR ADJACENT TO THE SCAR OF THE SANDBLASTED CENTERLINE OR TAPED CENTERLINE.
4. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE LADOT BRIDGE PROGRAM SECTION AT (213) 972-8491 AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION WITH THE DATE(S) OF IMPLEMENTATION & TYPE OF TEMPORARY TRAFFIC CONTROL IMPLEMENTATION (INCLUDE ACCEPTANCE DATE ON PLAN & SHEET NUMBER) & BRIEF DESCRIPTION OF WORK. DEPARTMENT OF TRANSPORTATION RESERVES THE RIGHT TO OBSERVE THESE CONTROL PLANS IN USE AND TO MAKE NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERSEDE THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL TRAFFIC CONTROL DEVICES NECESSARY TO ENSURE PUBLIC SAFETY AT ALL TIMES DURING CONSTRUCTION.
5. ALL CONSTRUCTION RELATED WARNING SIGNS SHALL BE IN BLACK LEGEND WITH ORANGE BACKGROUND AND IN CONFORMANCE WITH THE CALIFORNIA MUTCD (2009 EDITION).
6. THE STRIPING AND SIGNING SHOWN FOR REMOVAL ON THESE PLANS MAY BE DIFFERENT THAN WHAT EXISTS AT TIME OF INSTALLATION OF A CONSTRUCTION STAGE. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND STRIPING, WHETHER OR NOT IT IS DEPICTED ACCURATELY ON THESE PLANS.
7. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.
8. CONTRACTORS SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY CITY. A FLAGGER SHALL USE THE APPROVED OCTAGONAL STOP/SLOW PADDLE, SHALL WEAR A YELLOW TYPE III SAFETY VEST (PADDLE AND VEST MUST BE REFLECTORIZED FOR NIGHT WORK) AND HARD HAT, AS REQUIRED BY THE WATCH MANUAL, AND MUST BE PROPERLY TRAINED BY THE CONTRACTOR PERFORMING THE WORK SAFELY. APPROPRIATE ADVANCE SIGNS MUST ALSO BE INSTALLED, PER THE WATCH MANUAL.
9. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION STAGE AND THE PERMANENT TRAFFIC CONTROL DEVICES SHALL BE RESTORED BY THE CONTRACTOR UPON REMOVAL OF DETOUR STRIPING.
10. ALL SIGNS, DELINEATORS, BARRICADES, ETC., SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS LATEST EDITION, AND "2006 MUTCD WITH CALIFORNIA SUPPLEMENT," THE WORK AREA TRAFFIC CONTROL HANDBOOK, 2006 WATCH MANUAL, AND NOTICE TO CONTRACTORS - COMPREHENSIVE, STANDARD PLAN S-610 (LATEST EDITION).
11. CONTRACTOR SHALL NOTIFY LADOT'S SIGNAL MAINTENANCE SUPERVISOR AT (213) 485-7721 FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION WITHIN 10-FEET OF EXISTING TRAFFIC SIGNAL DETECTOR LOOPS, CONDUIT, INTERCONNECT, OR ATSAC FIBER OPTIC CABLE.
12. ANY DAMAGE TO TRAFFIC SIGNAL DETECTOR LOOPS, CONDUITS, INTERCONNECT, OR FIBER OPTIC CABLE SHALL BE REPAIRED IMMEDIATELY BY A QUALIFIED CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. DELAYS IN REPAIR OF INTERCONNECT OR ATSAC FIBER OPTIC CABLE WILL REQUIRE THE PAYMENT OF LIQUIDATION DAMAGE TO THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION. IMMEDIATELY NOTIFY LADOT SIGNAL REPAIR PERSONNEL AT (213) 485-7721 OF ANY DAMAGES. LADOT HAS THE OPTION TO DO THE REPAIR AND BILL THE CONTRACTOR.
13. FOR WTCP IMPLEMENTATION DURATION OF LESS THAN ONE (1) MONTH, THE CONTRACTOR SHALL CONTACT THE LADOT SPECIAL TRAFFIC CONTROLS OFFICE AT (213) 485-2298 AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF EACH NEW CONSTRUCTION STAGE FOR THE INSTALLATION OF TEMPORARY "TOW AWAY NO STOPPING ANY TIME" SIGNS. INSTALLATION OF THE TEMPORARY "TOW AWAY NO STOPPING ANY TIME" SIGNS AT PARKING METER ZONES SHALL ALSO INCLUDE COVERING METER HEADS AND THE ASSOCIATED PARKING RESTRICTION. FOR WTCP IMPLEMENTATION DURATION OF MORE THAN ONE (1) MONTH, THE CONTRACTOR SHALL FURNISH AND INSTALL "TOW AWAY NO STOPPING ANY TIME" SIGN PER CITY SPECIFICATION (METAL AND REFLECTORIZED). CONTACT LADOT TEMPORARY TRAFFIC MANAGEMENT ENGINEER FOR SAMPLES.
14. THERE SHALL BE NO STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT OUTSIDE THE DESIGNATED WORK AREA AS INDICATED IN THE WTCP. STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THE DESIGNATED AREA SHALL BE DONE IN A MANNER NOT TO CREATE VISIBILITY OBSTRUCTIONS TO THE MOTORING PUBLIC.
15. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES AND SHALL COORDINATE WITH RESIDENTS/BUSINESSES ANY CLOSURE/LIMITED ACCESS TO THEIR DRIVEWAYS.
16. NOTIFY FILM LA (JOSH MINGO) AT (213) 977-8600 AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION TO COORDINATE WITH FILMING ACTIVITIES.
17. CONTRACTOR SHALL PERFORM WORK IN ONLY ONE STAGE AT A TIME. THE CONTRACTOR SHALL ONLY UTILIZE THAT PORTION OF THE DESIGNATED "WORK AREA" WHICH IS NEEDED FOR CONSTRUCTION AT ANY GIVEN TIME.
18. THE CROSSWALKS ACROSS THREE LEGS OF ANY SIGNALIZED INTERSECTION SHALL BE MAINTAINED AT ALL TIMES. "NO PED CROSSING" (R9-3a/R9-3b) SIGNS SHALL BE INSTALLED WHEN A PAINTED CROSSWALK IS UNAVAILABLE FOR USE DUE TO CONSTRUCTION. PEDESTRIAN SIGNAL INDICATIONS FOR THE CLOSED CROSSWALK SHALL BE COVERED PER WATCH MANUAL (SECTION 6-2).
19. CONTRACTOR SHALL INSTALL R3-18 (NO LEFT AND NO U-TURN) SIGNS AT INTERSECTIONS WHERE THE LEFT TURN LANE HAS BEEN CLOSED FOR CONSTRUCTION. SIGNS SHOULD BE INSTALLED ON MAST ARMS AND FAR LEFT OF THE INTERSECTION OR AT LOCATIONS WHERE THEY WILL BE CLEARLY VISIBLE BY THE THRU TRAFFIC.
20. FOR OTHER REQUIREMENTS RELATED TO TRAFFIC CONTROL PLANS AND WORK AREA MAINTENANCE, THE CONTRACTOR SHALL FOLLOW THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION, CALIFORNIA SUPPLEMENT "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH MANUAL) LATEST EDITION, ALL RELATED SECTIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, INCLUDING SECTION 7-10 "PUBLIC CONVENIENCE AND SAFETY," AND 302-4.4 "PUBLIC CONVENIENCE AND TRAFFIC CONTROL."
21. CONTRACTOR SHALL PROVIDE CHANGEABLE MESSAGE SIGNS AS FIELD CONDITIONS/DETOURS WARRANT AND AS DEEMED NECESSARY BY LADOT, EVEN IF THEY ARE NOT SHOWN ON THESE PLANS.
22. ALL TEMPORARY SIGNAGE INSTALLED ADJACENT TO PEDESTRIAN TRAVEL WAY MUST ALLOW FOR ADA COMPLIANT PASSAGEWAYS.
23. CONCRETE K-RAIL SECTIONS TO BE CONTINUOUSLY CONNECTED. IN AREAS WITH LESS THAN 5-FEET TO EXCAVATION, SECURE K-RAIL TO PAVEMENT PER CALTRANS SPECIFICATIONS.
24. ANY CHANGES TO WORK AREAS, WORK HOURS, AND/OR APPROVED PLANS SHALL BE SUBMITTED TO LADOT FOR REVIEW AND APPROVAL.
25. ALL STREET CLOSURES SHALL BE APPROVED BY THE BOARD OF PUBLIC WORKS OR DESIGNEE PRIOR TO IMPLEMENTATION.
26. ALL SIDEWALK CLOSURES SHALL BE APPROVED BY BUREAU OF STREET SERVICES PRIOR TO IMPLEMENTATION.

TEMPORARY STRIPING NOTES:

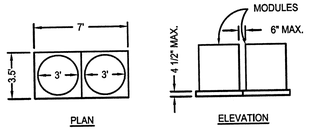
1. REMOVE ALL CONFLICTING STRIPING PRIOR TO INSTALLATION OF WTCP/TCP.
2. WHEN REMOVAL IS REQUIRED BY CONSTRUCTION, CROSSWALK MARKINGS AND PEDESTRIAN SIGNAL HEADS SHALL BE REMOVED SIMULTANEOUSLY.
3. BUBBLE NOTES: (SEE PLAN SHEETS)
4. WHEN REQUIRED BY CONSTRUCTION, THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH LACMTA, OR THE APPROPRIATE TRANSIT OPERATION, FOR THE TEMPORARY RELOCATION OF BUS STOPS/ZONE. COORDINATE RELOCATION WITH LADOT FOR INSTALLATION OF "TEMPORARY TOW AWAY NO STOPPING-BUS ZONE" SIGNS.
5. CONTRACTOR SHALL PROVIDE REFLECTORIZED CONES AT TYPE III BARRICADE SUPPORTS TO ALERT PEDESTRIANS TO THE BARRICADE SUPPORT.
6. FIELD CONDITIONS MAY VARY FROM THOSE SHOWN ON THE WTCP. IN THE EVENT FIELD CONDITIONS ARE DIFFERENT, THE CONTRACTOR SHALL COORDINATE WITH LADOT AND THE AUTHORITY BEFORE IMPLEMENTING COORDINATE WITH LADOT AND THE AUTHORITY BEFORE IMPLEMENTING THE WTCP. THE CONTRACTOR MAY BE REQUIRED TO SUBMIT A REVISED WTCP TO LADOT AND THE AUTHORITY FOR APPROVAL PRIOR TO IMPLEMENTATION.

RESTORATION STRIPING NOTES:

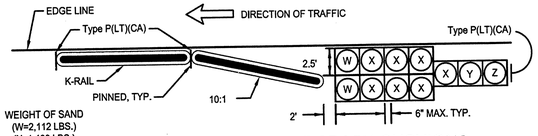
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND MATERIAL INVOLVED IN THE MARKOUT AND INSTALLATION OF ALL RESTORATION STRIPING/PAVEMENT MARKING. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL OF ALL CONFLICTING DETOUR, STRIPING, SIGNING, AND OTHER DETOUR-RELATED TRAFFIC CONTROL DEVICES PRIOR TO THE INSTALLATION OF THE FINAL STRIPING.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAINTING OF ALL EXISTING STRIPING THAT HAS BEEN DAMAGED DURING THE CONSTRUCTION PROCESS.
3. MARKOUT SHALL BE HEAVY PAINT BRUSH MARKINGS OVER A PULLED ROPE IN THE RESPECTIVE WHITE AND YELLOW COLORS OF THE PROPOSED STRIPING. STRIPING AND PAVEMENT MARKING SHALL BE IN HOT APPLIED ALKYD THERMOPLASTIC IN ACCORDANCE WITH LADOT SPECIFICATION NO. 51-005-10 AND 76-012-16.
4. THE CONTRACTOR SHALL CONTACT LADOT BRIDGE PROGRAM SECTION AT (213) 972-8491 AT LEAST (5) WORKING DAYS BEFORE BEGINNING OF MARKOUT, THE CONTRACTOR SHALL CORRECT ALL ERRORS IN MARKOUT REQUESTED BY LADOT. THE INSTALLATION OF THERMOPLASTIC STRIPING MAY PROCEED ONLY AFTER APPROVAL OF MARKOUT BY THE LADOT ENGINEER.
5. TEMPORARY REFLECTIVE RAISED PAVEMENT MARKERS SHALL BE MAINTAINED ADJACENT TO ANY TEMPORARY CENTERLINE, MARKOUT CENTERLINE, OR A SCAR OF A SANDBLASTED CENTERLINE, AS APPLICABLE, AS PER LAYOUT STANDARD PLAN NO. S-453.0 IF CONTRACTOR IS UNABLE TO RESTORE STRIPING AS PLANNED.

TEMPORARY CRASH CUSHION INSTALLATION NOTES:

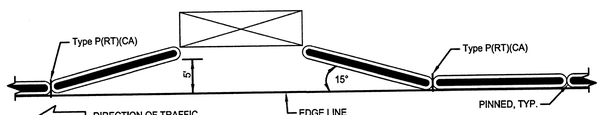
1. (X) INDICATES SAND FILLED MODULE LOCATION AND WEIGHT OF SAND IN POUNDS FOR EACH MODULE. MODULE SPACING IS BASED ON THE GREATER DIAMETER OF THE MODULE.
2. ALL SAND WEIGHTS ARE NOMINAL.
3. THE TEMPORARY CRASH CUSHION ARRAYS SHOWN ON THE PLANS SHALL BE USED ONLY IN LOCATIONS WHERE THERE WILL BE TRAFFIC ON ONE SIDE OF THE TEMPORARY CRASH CUSHION ARRAY.
4. IF THE FIXED OBJECT OR APPROACH END OF THE TEMPORARY RAILING IS LESS THAN 15'-0" FROM THE EDGE OF TRAVELED WAY, A TEMPORARY CRASH CUSHION ARRAY IS REQUIRED IN A CONSTRUCTION OR WORK ZONE.
5. TEMPORARY CRASH CUSHION ARRAYS SHALL NOT ENCROACH ON THE TRAVELED WAY.
6. ARRAYS FOR MEDIAN SHOULDERS SHALL CONFORM TO DETAILS SHOWN ON THIS PLAN FOR OUTSIDE SHOULDERS.
7. PLACE THE TYPE P MARKER PANEL SO THAT THE BOTTOM OF THE PANEL RESTS UPON THE PALLET AND FACES TRAFFIC.



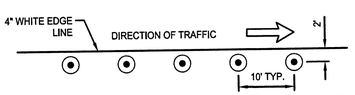
CRASH CUSHION PALLET DETAIL
DETAIL A
(TO BE USED AT THE DISCRETION OF THE CONTRACTOR)



TYPICAL INSTALLATION OF CRASH CUSHIONS BELOW 45 MPH INTERSECTIONS DETAIL B



TYPICAL INSTALLATION OF K-RAIL NON-INTERSECTIONS



TYPICAL INSTALLATION OF DELINEATORS DETAIL C

LEGEND:

1. - EXISTING STRIPING & MARKINGS TO REMAIN
   - EXISTING STRIPING & MARKINGS TO BE REMOVED
   - PROPOSED STRIPING & MARKINGS
2. R/C - EXISTING RED CURB MARKINGS TO REMAIN
   R/C - EXISTING RED CURB MARKINGS TO BE REMOVED
   R/C - PROPOSED RED CURB MARKINGS
3. - EXISTING SIGN AND POST
   - EXISTING SIGN AND POST TO BE REMOVED OR RELOCATED
   - PROPOSED SIGN AND POST
4. (S) - SIGNALIZED INTERSECTION
5. - TYPE II BARRICADE / WITH SIGN(S)
6. - EXISTING TYPE II BARRICADE / WITH SIGN(S) TO BE REMOVED
7. - TYPE III BARRICADE / WITH SIGN(S)
8. - EXISTING TYPE III BARRICADE / WITH SIGN(S) TO BE REMOVED
9. - CRASH CUSHION ARRAY "TS11" (PER CALTRANS STD. PLAN T2)
10. - EXISTING CRASH CUSHION ARRAY "TS11" (PER CALTRANS STD. PLAN T2)
11. - EXISTING CRASH CUSHION ARRAY "TS11" (PER CALTRANS STD. PLAN T2) TO BE REMOVED
12. - CRASH CUSHION ARRAY "TU17" (PER CALTRANS STD. PLAN T1A)
13. - EXISTING CRASH CUSHION ARRAY "TU17" (PER CALTRANS STD: PLAN T1A)
14. - 20' K-RAIL (INTERCONNECTED)
15. - EXISTING K-RAIL (INTERCONNECTED)
16. - EXISTING K-RAIL (INTERCONNECTED) TO BE REMOVED
17. - 10' K-RAIL (INTERCONNECTED)
18. - WORK AREA
19. - ENCLOSED PEDESTRIAN TUNNEL AREA
20. - 30" EPOXIED SURFACE MOUNT DELINEATORS WITH REFLECTIVE SHEETING (SPACED AT 20 FEET)
21. - FENCE
22. - PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
23. - FLASHING ARROW BOARD

BUREAU OF ENGINEERING
OFFICIAL RECORD

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0		RP	TH	81237	9/30/15	TAYLOR J. HENDERSON	ISSUED FOR CONSTRUCTION

DESIGNED BY T. HENDERSON
DRAWN BY T. HENDERSON
CHECKED BY R. PUDIPEDDI
IN CHARGE T. PAO
DATE 8/3/15

REGISTERED PROFESSIONAL ENGINEER — TAYLOR J. HENDERSON — No. 81237 — Exp. 9/30/15 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — RAVI S PUDIPEDDI — No. 2658 — Exp. 03/31/17 — TRAFFIC — STATE OF CALIFORNIA

SIXTH STREET VIADUCT REPLACEMENT

HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071

V&A INC.
530 S. HEWITT ST. SUITE 121
LOS ANGELES, CA 90013
213.972.9700

CONSULTANT BUSINESS TAX REGISTRATION NUMBER : 0000061910-0001-1

ORIGINAL MAP SCALE 1"=20' / 1"=40'
20 10 0 20 40 60 80 100 FEET
40 20 0 40 80 120 160 200 FEET

SCALES
HORIZ. 1"=NONE
VERT. 1"=NONE

SHEET 13 OF 52

INDEX NUMBER D-34619

FILENAME: C-002-TH201.DWG

6TH STREET VIADUCT REPLACEMENT PROJECT

TH-201

REVIEWED August 5 2015
Transportation Engineer

ACCEPTED Aug 7 20 15
Senior Transportation Engineer

INSTALLATION DATES
MARKOUT BEGAN:
MARKOUT COMPLETED:
STRIPING COMPLETED:
References: A-2580 FIELD CHECK
CONTRACT NO.

Thomas Guide	District
634-4	CENTRAL

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
SELETA J. REYNOLDS, GENERAL MANAGER

CONSTRUCTION NOTES
LEGEND

PROJECT NO.	DRAWING NO.	REV.	
77176	A-6709	0	1/7

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12/14/2015

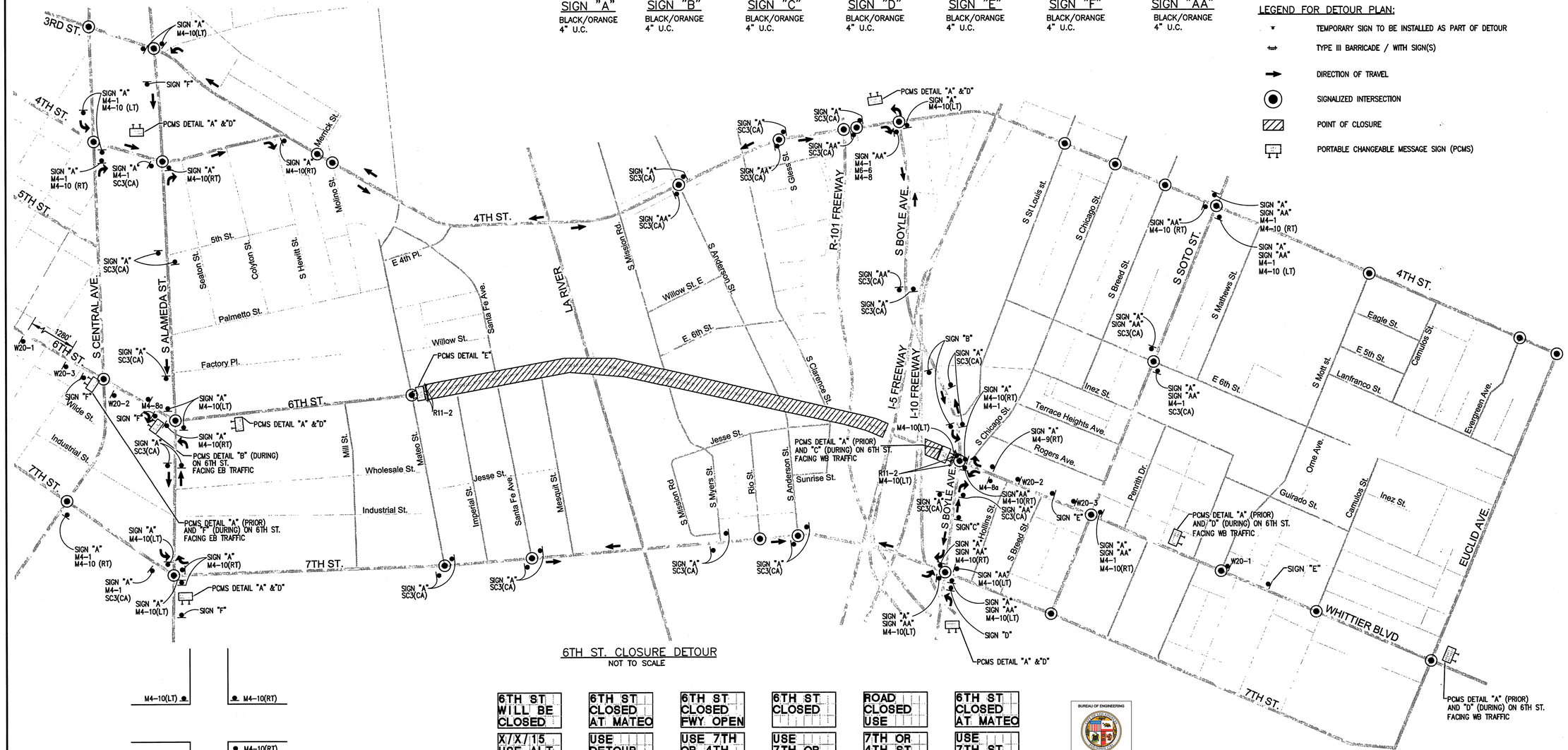
6TH ST.	6TH ST. CLOSED USE 7TH ST. FWY ACCESS OK	6TH ST. CLOSED USE 4TH ST. FWY ACCESS OK	6TH ST. CLOSED USE 7TH ST. ←	6TH ST. CLOSED USE 7TH OR 4TH ST. FWY ACCESS OK	6TH ST. CLOSED AT MATEO ST. USE 4TH OR 7TH ST.	WHITTIER BLVD.
SIGN "A"	SIGN "B"	SIGN "C"	SIGN "D"	SIGN "E"	SIGN "F"	SIGN "AA"
BLACK/ORANGE 4" U.C.	BLACK/ORANGE 4" U.C.	BLACK/ORANGE 4" U.C.	BLACK/ORANGE 4" U.C.	BLACK/ORANGE 4" U.C.	BLACK/ORANGE 4" U.C.	BLACK/ORANGE 4" U.C.

ADDITIONAL NOTES:

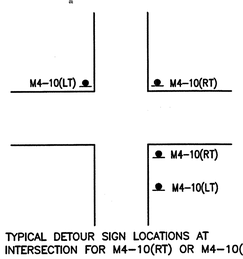
1. THESE CLOSURE PLANS ARE ONLY FOR THE CLOSURE OF 6TH ST. BETWEEN MATEO ST. AND BOYLE AVE.
2. PCMS 'S SHALL NOT BE REMOVED WITHOUT APPORVAL BY LADOT
3. ALL PCMS SHALL DISPLAY DETAIL "A" MESSAGE AT LEAST 3 WEEKS PRIOR TO CLOSURE.

LEGEND FOR DETOUR PLAN:

- TEMPORARY SIGN TO BE INSTALLED AS PART OF DETOUR
- TYPE III BARRICADE / WITH SIGN(S)
- DIRECTION OF TRAVEL
- SIGNALIZED INTERSECTION
- POINT OF CLOSURE
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)



6TH ST. CLOSURE DETOUR
NOT TO SCALE



TYPICAL DETOUR SIGN LOCATIONS AT INTERSECTION FOR M4-10(RT) OR M4-10(LT)

6TH ST WILL BE CLOSED X/X/15 USE ALT ROUTE	6TH ST CLOSED AT MATEO USE DETOUR	6TH ST CLOSED FWY OPEN USE 7TH OR 4TH	6TH ST CLOSED USE 7TH OR 4TH ST	ROAD CLOSED USE 7TH OR 4TH ST	6TH ST CLOSED AT MATEO USE 7TH ST
DETAIL "A"	DETAIL "B"	DETAIL "C"	DETAIL "D"	DETAIL "E"	DETAIL "F"
TO BE IN OPERATION 3 WEEKS PRIOR TO CLOSURE.	TO BE IN OPERATION DURING CLOSURE.	TO BE IN OPERATION DURING CLOSURE.	TO BE IN OPERATION DURING CLOSURE.	TO BE IN OPERATION DURING CLOSURE.	TO BE IN OPERATION DURING CLOSURE.

BUREAU OF ENGINEERING OFFICIAL RECORD

SCALE: 1"=NTS

6TH STREET VIADUCT REPLACEMENT PROJECT
VIADUCT CLOSURE DETOUR PLAN

DET–201

REVIEWED August 5 20 15
Transportation Engineer

ACCEPTED August 7 20 15
Senior Transportation Engineer

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0		RP	TH	81237	9/30/15	TAYLOR J. HENDERSON	ISSUED FOR CONSTRUCTION

DESIGNED BY T. HENDERSON
DRAWN BY T. HENDERSON
CHECKED BY R. PUDIPEDDI
IN CHARGE T. PAO
DATE 8/3/15

REGISTERED PROFESSIONAL ENGINEER — TAYLOR J. HENDERSON — No. 81237 — Exp. 9/30/15 — CIVIL — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — RAVI S PUDIPEDDI — No. 2658 — Exp. 03/31/17 — TRAFFIC — STATE OF CALIFORNIA

SIXTH STREET VIADUCT REPLACEMENT

HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071

V&A INC.
530 S. HEWITT ST. SUITE 121
LOS ANGELES, CA 90013
213.972.9700

INSTALLATION DATES
MARKOUT BEGAN: _____
MARKOUT COMPLETED: _____
STRIPING COMPLETED: _____
References: A–2580 FIELD CHECK
CONTRACT NO.

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
SELETA J. REYNOLDS, GENERAL MANAGER

SIXTH STREET VIADUCT
CLOSURE DETOUR MAP

Thomas Guide	District	PROJECT NO.	DRAWING NO.	REV.	
634–4	CENTRAL	77176	A–6709	0	2 / 7

CONSULTANT BUSINESS TAX REGISTRATION NUMBER : 0000061910–0001–1

1"=20' ORIGINAL MAP SCALE 1"=40'

SCALES — HORIZ. 1"=NONE — VERT. 1"=NONE

SHEET 14 OF 52

INDEX NUMBER **D-34619**

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FILENAME: C–002–DET201.DWG

12/14/2015

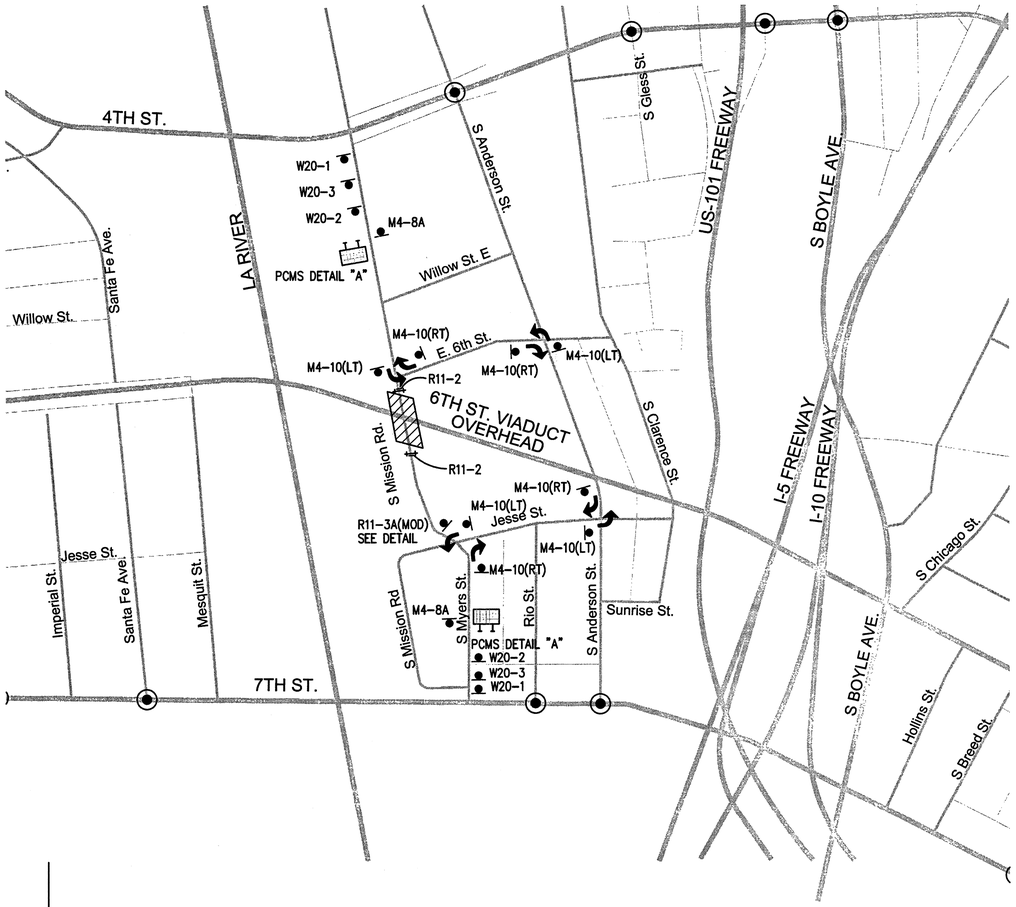
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Type N(CA) or TN(CA) (ORANGE) 18" x 18"	
ROAD CLOSED AHEAD	W20-3 36" x 36"
DETOUR AHEAD	W20-2 36" x 36"
END DETOUR	M4-8a
DETOUR	M4-10(LT)
DETOUR	M4-10(RT)
DETOUR	M4-8
DETOUR	M4-9(RT)
ROAD CLOSED	R11-2
ALTERNATE	M4-1
DETOUR	SC3(CA)
	M6-6

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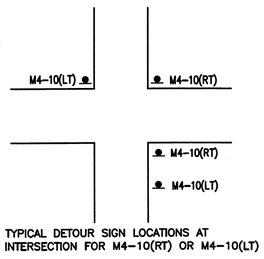
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S. MISSION STREET CLOSURE
NOT TO SCALE



TYPICAL DETOUR SIGN LOCATIONS AT INTERSECTION FOR M4-10(RT) OR M4-10(LT)

NOTE:

1. THIS PLAN IS FOR TEMPORARY CLOSURES REQUIRED FOR THE DEMOLITION & RECONSTRUCTION OF THE SIXTH STREET VIADUCT OVERHEAD.
2. CLOSURES WOULD BE NIGHT TIME, WITH THE APPROXIMATE DURATIONS AS FOLLOWS:
   - EXISTING VIADUCT DEMOLITION – 20 NIGHTS
   - ERECT FALSEWORK FOR NEW VIADUCT – 20 NIGHTS
   - CONCRETE POUR FOR NEW VIADUCT – 10 NIGHTS
   - REMOVE FALSEWORK FOR NEW VIADUCT – 20 NIGHTS

LEGEND FOR DETOUR PLAN:

- TEMPORARY SIGN TO BE INSTALLED AS PART OF DETOUR
- TYPE III BARRICADE / WITH SIGN(S)
- DIRECTION OF TRAVEL
- SIGNALIZED INTERSECTION
- POINT OF CLOSURE
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

ROAD CLOSED AHEAD
DETOUR USE ANDERSON

DETAIL "A"
TO BE IN OPERATION DURING CLOSURE.

ROAD CLOSED AHEAD
LOCAL ACCESS ONLY

BLACK/ORANGE
6" U.C.

R11-3a (MODIFIED)

END DETOUR M4-8a
DETOUR M4-10(LT)
DETOUR M4-10(RT)
DETOUR SC3(CA)
ROAD CLOSED R11-2
ROAD WORK AHEAD W20-1
ROAD CLOSED AHEAD W20-3 36" x 36"
DETOUR AHEAD W20-2 36" x 36"

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0		RP	TH	81237	9/30/15	TAYLOR J. HENDERSON	ISSUED FOR CONSTRUCTION

DESIGNED BY T. HENDERSON
DRAWN BY T. HENDERSON
CHECKED BY R. PUDIPEDDI
IN CHARGE T. PAO
DATE 8/3/15

TAYLOR J. HENDERSON — No. 81237 — Exp. 9/30/15 — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

RAVI S PUDIPEDDI — No. 2858 — Exp. 03/31/17 — TRAFFIC — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

SIXTH STREET VIADUCT REPLACEMENT

HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071

V&A INC.
530 S. HEWITT ST. SUITE 121
LOS ANGELES, CA 90013
213.972.9700

BUREAU OF ENGINEERING — OFFICIAL RECORD

SCALE: 1"=NTS

6TH STREET VIADUCT REPLACEMENT PROJECT
MISSION RD CLOSURE DETOUR PLAN

TH–203

REVIEWED August 5, 20 15
Transportation Engineer

ACCEPTED July 7, 20 15
Senior Transportation Engineer

INSTALLATION DATES
MARKOUT BEGAN:
MARKOUT COMPLETED:
STRIPING COMPLETED:
References: A–2580 FIELD CHECK
CONTRACT NO.

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
SELETA J. REYNOLDS, GENERAL MANAGER

MISSION ROAD
CLOSURE DETOUR PLAN

Thomas Guide	District	PROJECT NO.	DRAWING NO.	REV.	
634–4	CENTRAL	77176	A–6709	0	4/7

CONSULTANT BUSINESS TAX REGISTRATION NUMBER : 0000061910–0001–1

1"=20' / 1"=40' ORIGINAL MAP SCALE
20 10 0 20 40 60 80 100 FEET
40 20 0 40 80 120 160 200 FEET

SCALES — HORIZ. 1"=NONE — VERT. 1"=NONE

SHEET 16 OF 52

INDEX NUMBER D-34619

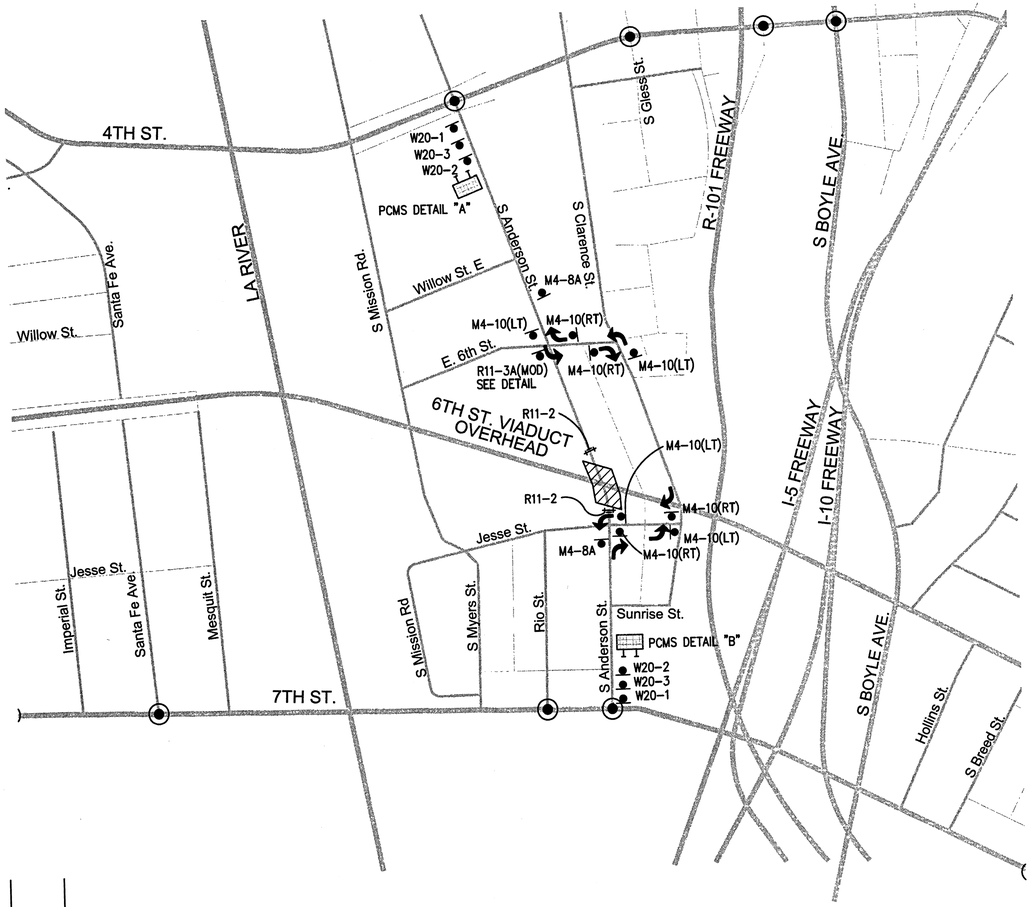
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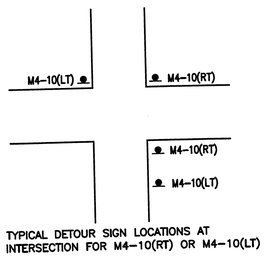
12/14/2015

NOTE:

1. THIS PLAN IS FOR TEMPORARY CLOSURES REQUIRED FOR THE DEMOLITION & RECONSTRUCTION OF THE SIXTH STREET VIADUCT OVERHEAD.
2. CLOSURES WOULD BE NIGHT TIME, WITH THE APPROXIMATE DURATIONS AS FOLLOWS:
   - EXISTING VIADUCT DEMOLITION – 20 NIGHTS
   - ERECT FALSEWORK FOR NEW VIADUCT – 20 NIGHTS
   - CONCRETE POUR FOR NEW VIADUCT – 10 NIGHTS
   - REMOVE FALSEWORK FOR NEW VIADUCT – 20 NIGHTS



ANDERSON STREET CLOSURE
NOT TO SCALE



TYPICAL DETOUR SIGN LOCATIONS AT INTERSECTION FOR M4-10(RT) OR M4-10(LT)

LEGEND FOR DETOUR PLAN:

- TEMPORARY SIGN TO BE INSTALLED AS PART OF DETOUR
- TYPE III BARRICADE / WITH SIGN(S)
- DIRECTION OF TRAVEL
- SIGNALIZED INTERSECTION
- POINT OF CLOSURE
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

ROAD CLOSED AHEAD
USE DETOUR

DETAIL "A"
TO BE IN OPERATION DURING CLOSURE.

ROAD CLOSED AHEAD
USE DETOUR

DETAIL "B"
TO BE IN OPERATION DURING CLOSURE.

ROAD CLOSED
AHEAD
LOCAL ACCESS ONLY

BLACK/ORANGE
6" U.C.

R11-3a (MODIFIED)

END DETOUR M4-8a

DETOUR M4-10(LT)

DETOUR M4-10(RT)

DETOUR SC3(CA)

ROAD CLOSED R11-2

ROAD WORK AHEAD W20-1

ROAD CLOSED AHEAD W20-3 36" x 36"

DETOUR AHEAD W20-2 36" x 36"

BUREAU OF ENGINEERING OFFICIAL RECORD

SCALE: 1"=NTS

6TH STREET VIADUCT REPLACEMENT PROJECT
ANDERSON ST CLOSURE DETOUR PLAN

TH-204

REVIEWED Aug 5 2015
Transportation Engineer

ACCEPTED Aug 7 2015
Senior Transportation Engineer

INSTALLATION DATES
MARKOUT BEGAN:
MARKOUT COMPLETED:
STRIPING COMPLETED:

References:
A-2580
FIELD CHECK

CONTRACT NO.

Thomas Guide	District
634-4	CENTRAL

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
SELETA J. REYNOLDS, GENERAL MANAGER

ANDERSON STREET
CLOSURE DETOUR PLAN

PROJECT NO. 77176 | DRAWING NO. A-6709 | REV. 0 | 5/7

INDEX NUMBER D-34619

FILENAME: C-002-TH203-TH206.DWG

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0		RP	TH	81237	9/30/15	TAYLOR J. HENDERSON	ISSUED FOR CONSTRUCTION

DESIGNED BY T. HENDERSON
DRAWN BY T. HENDERSON
CHECKED BY R. PUDIPEDDI
IN CHARGE T. PAO
DATE 8/3/15

REGISTERED PROFESSIONAL ENGINEER — TAYLOR J. HENDERSON — No. 81237 — Exp. 9/30/15 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — RAVI S PUDIPEDDI — No. 2658 — Exp. 03/31/17 — TRAFFIC — STATE OF CALIFORNIA

SIXTH STREET VIADUCT REPLACEMENT

HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071

V&A INC.
530 S. HEWITT ST. SUITE 121
LOS ANGELES, CA 90013
213.972.9700

CONSULTANT BUSINESS TAX REGISTRATION NUMBER : 0000061910-0001-1

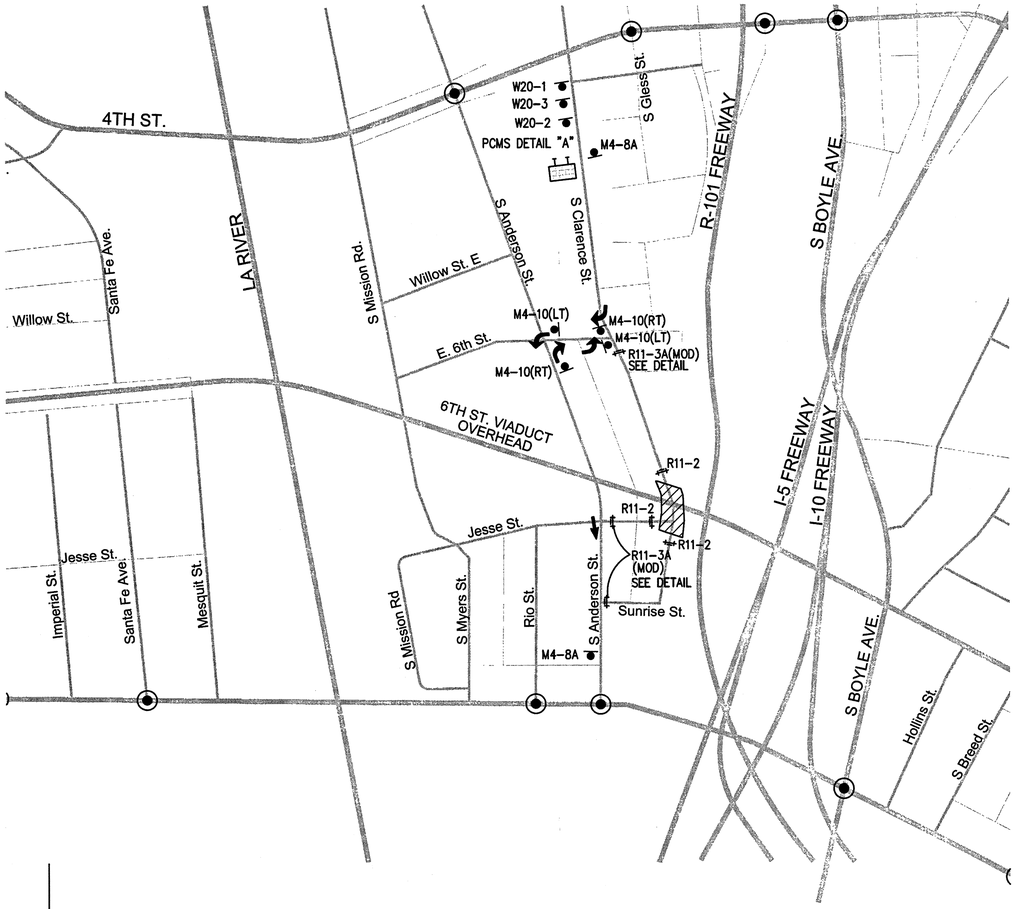
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20 10 0 20 40 60 80 100 FEET
40 20 0 40 80 120 160 200 FEET

SCALES
HORIZ. 1"=NONE
VERT. 1"=NONE

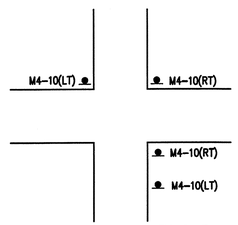
SHEET 17 OF 52

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Sheet Name: TH204 / Updated: Aug 04, 2015 – 8:50am / Last Saved By: thenderson / Plotted By: thenderson

12/14/2015



CLARENCE STREET CLOSURE
NOT TO SCALE



TYPICAL DETOUR SIGN LOCATIONS AT INTERSECTION FOR M4-10(RT) OR M4-10(LT)

NOTE:

1. THIS PLAN IS FOR TEMPORARY CLOSURES REQUIRED FOR THE DEMOLITION & RECONSTRUCTION OF THE SIXTH STREET VIADUCT OVERHEAD.
2. CLOSURES WOULD BE NIGHT TIME, WITH THE APPROXIMATE DURATIONS AS FOLLOWS:
   - EXISTING VIADUCT DEMOLITION – 20 NIGHTS
   - ERECT FALSEWORK FOR NEW VIADUCT – 20 NIGHTS
   - CONCRETE POUR FOR NEW VIADUCT – 10 NIGHTS
   - REMOVE FALSEWORK FOR NEW VIADUCT – 20 NIGHTS

LEGEND FOR DETOUR PLAN:

- TEMPORARY SIGN TO BE INSTALLED AS PART OF DETOUR
- TYPE III BARRICADE / WITH SIGN(S)
- DIRECTION OF TRAVEL
- SIGNALIZED INTERSECTION
- POINT OF CLOSURE
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

ROAD CLOSED AHEAD

USE DETOUR

DETAIL "A"
TO BE IN OPERATION DURING CLOSURE.

ROAD CLOSED AHEAD
LOCAL ACCESS ONLY

BLACK/ORANGE
6" U.C.

R11-3a (MODIFIED)

END DETOUR M4-8a

DETOUR M4-10(LT)

DETOUR M4-10(RT)

DETOUR SC3(CA)

ROAD CLOSED R11-2

ROAD WORK AHEAD W20-1

ROAD CLOSED AHEAD W20-3 36" x 36"

DETOUR AHEAD W20-2 36" x 36"

BUREAU OF ENGINEERING OFFICIAL RECORD

SCALE: 1"=NTS

6TH STREET VIADUCT REPLACEMENT PROJECT
CLARENCE ST CLOSURE DETOUR PLAN

TH-205

REVIEWED Aug 7 20 15
Transportation Engineer

ACCEPTED Aug 7 20 15
Senior Transportation Engineer

INSTALLATION DATES
MARKOUT BEGAN:
MARKOUT COMPLETED:
STRIPING COMPLETED:

References:
A-2580
FIELD CHECK

CONTRACT NO.

Thomas Guide	District
634-4	CENTRAL

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
SELETA J. REYNOLDS, GENERAL MANAGER

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0		RP	TH	81237	9/30/15	TAYLOR J. HENDERSON	ISSUED FOR CONSTRUCTION

DESIGNED BY T. HENDERSON
DRAWN BY T. HENDERSON
CHECKED BY R. PUDIPEDDI
IN CHARGE T. PAO
DATE 8/3/15

REGISTERED PROFESSIONAL ENGINEER — TAYLOR J. HENDERSON — No. 81237 — Exp. 9/30/15 — CIVIL — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — RAVI S PUDIPEDDI — No. 2658 — Exp. 03/31/17 — TRAFFIC — STATE OF CALIFORNIA

SIXTH STREET VIADUCT REPLACEMENT

HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071

V&A INC.
530 S. HEWITT ST. SUITE 121
LOS ANGELES, CA 90013
213.972.9700

CLARENCE STREET
CLOSURE DETOUR PLAN

PROJECT NO.	DRAWING NO.	REV.	
77176	A-6709	0	6 / 7

CONSULTANT BUSINESS TAX REGISTRATION NUMBER : 0000061910-0001-1

1"=20' 1"=40' ORIGINAL MAP SCALE 20 10 0 20 40 60 80 100 FEET; 40 20 0 40 80 120 160 200 FEET

SCALES — HORIZ. 1"=NONE — VERT. 1"=NONE

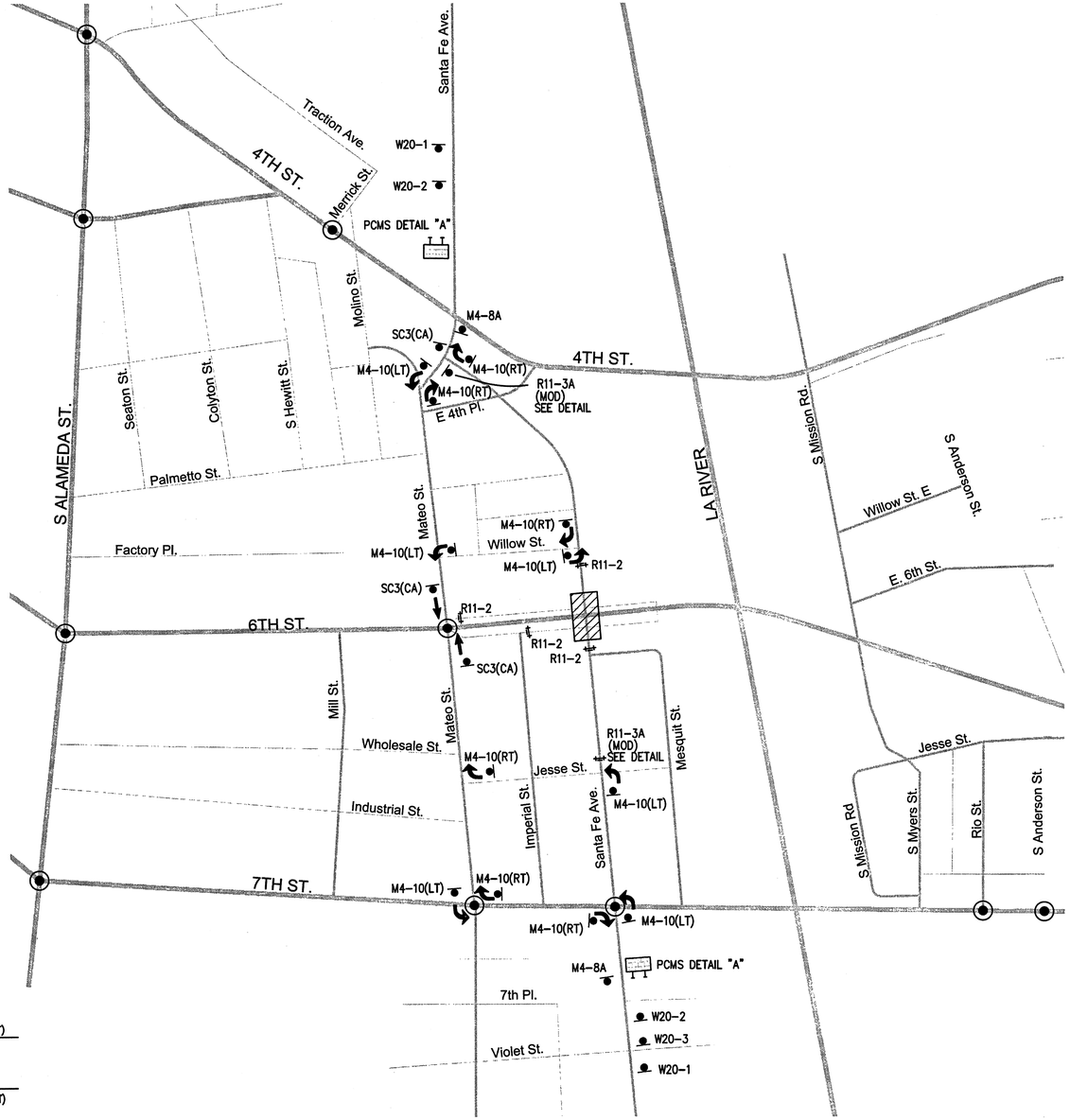
SHEET 18 OF 52

INDEX NUMBER D-34619

FILENAME: C-002-TH203-TH206.DWG

Drawing File: C:\caddlib\pw\pwwestcoast\thenderson\dms57684\C-002-TH203-TH206.dwg
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12/14/2015



M4-10(LT) M4-10(RT)

M4-10(RT) M4-10(LT)

TYPICAL DETOUR SIGN LOCATIONS AT INTERSECTION FOR M4-10(RT) OR M4-10(LT)

SANTA FE AVENUE CLOSURE
NOT TO SCALE

NOTE:

1. THIS PLAN IS FOR TEMPORARY CLOSURES REQUIRED FOR THE DEMOLITION & RECONSTRUCTION OF THE SIXTH STREET VIADUCT OVERHEAD.
2. CLOSURES WOULD BE NIGHT TIME, WITH THE APPROXIMATE DURATIONS AS FOLLOWS:
   - EXISTING VIADUCT DEMOLITION – 20 NIGHTS
   - ERECT FALSEWORK FOR NEW VIADUCT – 20 NIGHTS
   - CONCRETE POUR FOR NEW VIADUCT – 10 NIGHTS
   - REMOVE FALSEWORK FOR NEW VIADUCT – 20 NIGHTS

LEGEND FOR DETOUR PLAN:

- TEMPORARY SIGN TO BE INSTALLED AS PART OF DETOUR
- TYPE III BARRICADE / WITH SIGN(S)
- DIRECTION OF TRAVEL
- SIGNALIZED INTERSECTION
- POINT OF CLOSURE
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

ROAD CLOSED AHEAD
DETOUR USE MATEO ST
DETAIL "A"
TO BE IN OPERATION DURING CLOSURE.

ROAD CLOSED AHEAD
LOCAL ACCESS ONLY

BLACK/ORANGE
6" U.C.

R11-3a (MODIFIED)

END DETOUR
M4-8a

DETOUR
M4-10(LT)

DETOUR
M4-10(RT)

DETOUR
SC3(CA)

ROAD CLOSED
R11-2

ROAD WORK AHEAD
W20-1

ROAD CLOSED AHEAD
W20-3
36" x 36"

DETOUR AHEAD
W20-2
36" x 36"

BUREAU OF ENGINEERING
OFFICIAL RECORD

SCALE: 1"=NTS

6TH STREET VIADUCT REPLACEMENT PROJECT
SANTA FE AVE CLOSURE DETOUR PLAN

TH-206

REVIEWED Aug. 7 20 15
Transportation Engineer

ACCEPTED Aug. 7 20 15
Senior Transportation Engineer

INSTALLATION DATES
MARKOUT BEGAN:
MARKOUT COMPLETED:
STRIPING COMPLETED:
References:
A-2580
FIELD CHECK
CONTRACT NO.

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
SELETA J. REYNOLDS, GENERAL MANAGER

SANTA FE AVENUE
CLOSURE DETOUR PLAN

Thomas Guide	District	PROJECT NO.	DRAWING NO.	REV.	
634-4	CENTRAL	77176	A-6709	0	7/7

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0		RP	TH	81237	9/30/15	TAYLOR J. HENDERSON	ISSUED FOR CONSTRUCTION

DESIGNED BY T. HENDERSON
DRAWN BY T. HENDERSON
CHECKED BY R. PUDIPEDDI
IN CHARGE T. PAO
DATE 8/3/15

REGISTERED PROFESSIONAL ENGINEER
TAYLOR J. HENDERSON
No. 81237
Exp. 9/30/15
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
RAVI S PUDIPEDDI
No. 2658
Exp. 03/31/17
TRAFFIC
STATE OF CALIFORNIA

SIXTH STREET VIADUCT REPLACEMENT

HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071

V&A INC.
530 S. HEWITT ST. SUITE 121
LOS ANGELES, CA 90013
213.972.9700

CONSULTANT BUSINESS TAX REGISTRATION NUMBER : 0000061910-0001-1

ORIGINAL MAP SCALE 1"=20' / 1"=40'
20 10 0 20 40 60 80 100 FEET
40 20 0 40 80 120 160 200 FEET

SCALES
HORIZ. 1"=NONE
VERT. 1"=NONE

SHEET 19 OF 52

INDEX NUMBER D-34619

FILENAME: C-002-TH203-TH206.DWG

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Sheet Name: TH206 / Updated: Aug 04, 2015 – 8:50am / Last Saved By: thenderson / Plotted By: thenderson

12/14/2015

NOTICE TO CONTRACTORS
GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST BOARD OF PUBLIC WORKS OF THE CITY OF LOS ANGELES ADOPTED EDITION AND SUPPLEMENTS TO THE "GREENBOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AS MODIFIED BY THE CORRESPONDING ISSUE OF THE BROWN BOOK, THE LATEST EDITION OF THE BUREAU OF STREET LIGHTING "SPECIAL SPECIFICATIONS", AND THE SPECIAL PROVISIONS.
2. ELECTROLIERS SHALL BE INSTALLED WITH CENTERLINE 30" BEHIND THE CURB FACE, AND WITH LUMINAIRE ARM ORIENTED OVER THE STREET AND PERPENDICULAR TO ITS CENTER LINE, EXCEPT AS OTHERWISE SPECIFIED HEREON.
3. ELECTROLIERS SPECIFIED TO BE LOCATED INSIDE OF THE CURB RETURN SHALL BE INSTALLED WITH THE CENTER OF THE ELECTROLIER 30 INCHES BEHIND THE CURB FACE MEASURED RADIALLY, AND WITH THE LUMINAIRE ARM ORIENTED OVER THE STREET AND PERPENDICULAR TO THE STREET CENTERLINE.
4. ELECTROLIERS SHALL BE ERECTED SO THAT THE BASE DOOR IS PERPENDICULAR TO THE CURB AND LOCATED ON THE SIDE OF THE ELECTROLIER AWAY FROM ONCOMING TRAFFIC.
5. ALL EXISTING ELECTROLIERS SPECIFIED TO BE REMOVED OR MODIFIED ON THIS PLAN SHALL BE MAINTAINED IN SERVICE UNTIL THE NEW ELECTROLIER LIGHTING SYSTEM IS PLACED IN SERVICE, UNLESS OTHERWISE SPECIFIED HEREON. ALL OTHER ELECTROLIERS ON CIRCUITS AFFECTED BY THIS PLAN SHALL BE MAINTAINED IN SERVICE. CONTRACTOR MAY PROVIDE ALTERNATE LIGHTING IN LIEU OF MAINTAINING EXISTING ELECTROLIER LIGHTS IN SERVICE PROVIDED THAT SUCH ARRANGEMENTS ARE APPROVED BY THE ENGINEER.
6. ALL EQUIPMENT REQUIRED HEREON FOR FURNISHING ELECTRICAL SERVICE FOR EACH CIRCUIT SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY OTHER CONSTRUCTION ON THAT CIRCUIT UNLESS OTHERWISE APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE, 72 HOURS IN ADVANCE OF THE REMOVAL OF AN ELECTROLIER, TO ANY PUBLIC AGENCY MAINTAINING EQUIPMENT SUPPORTED BY THAT ELECTROLIER.
8. FOUNDATIONS AND PULLBOXES NOT REMAINING IN SERVICE SHALL BE REMOVED. THE RESULTING EXCAVATION SHALL BE FILLED WITH MATERIAL SIMILAR TO ADJACENT MATERIAL AND SATISFACTORILY COMPACTED WITH A MECHANICAL COMPACTOR IN LAYERS NOT EXCEEDING 12 INCHES. THE SURFACE SHALL BE FINISHED TO MATCH THE ADJACENT SURFACE.
9. THE CONTRACTOR SHALL REQUEST A BURN TEST BY NOTIFYING THE BUREAU OF CONTRACT ADMINISTRATION PROJECT INSPECTOR A MINIMUM OF 7 CALENDAR DAYS IN ADVANCE OF THE DATE ON WHICH A BURN TEST IS DESIRED.
10. CONTRACTOR SHALL GIVE THREE WORKING DAYS NOTICE (PHONE 323-913-4743) PRIOR TO DELIVERY OF ANY EQUIPMENT SPECIFIED TO BE DELIVERED TO THE BUREAU OF STREET LIGHTING YARD AT 4550 SANTA MONICA BLVD., SUCH DELIVERIES SHALL BE BETWEEN 8:30 AM AND 3:00 PM AND SHALL INCLUDE ALL HANDLING AND LOADING FROM THE TRUCK BY THE CONTRACTOR. CONTRACTOR MUST SUPPLY A COPY OF THE STREET LIGHTING SHEETS WITH THE DELIVERY OF MATERIAL.
11. PULLBOXES LOCATED ADJACENT TO DRIVEWAYS AND ALLEYS SHALL BE INSTALLED AT A MINIMUM DISTANCE OF FIVE FEET FROM THE TOP OF THE "X" OF A CASE 1 OR CASE 2 DRIVEWAY OR AT A MINIMUM DISTANCE OF TWO FEET FROM THE B.C. OF A CASE 3 OR CASE 4 DRIVEWAY OR FIVE FEET FROM TRAVELLED WAY OF THE ALLEY.
12. PULLBOXES INSTALLED AT INTERSECTIONS OF LOCAL STREET SHALL BE INSTALLED NO CLOSER TO THE INTERSECTIONS THAN THE B.C.R. OF AN ASSUMED FUTURE 25' RADIUS CURB RETURN UNLESS OTHERWISE APPROVED BY THE ENGINEER. PULLBOXES INSTALLED AT INTERSECTIONS WHICH INVOLVE ONE OR MORE MAJOR OR SECONDARY STREETS SHALL BE INSTALLED NO CLOSER TO INTERSECTIONS THAN THE B.C.R. OF AN ASSUMED FUTURE 35' RADIUS CURB RETURN UNLESS OTHERWISE APPROVED BY THE ENGINEER.
13. CONDUIT SHALL BE INSTALLED AROUND ALL EXISTING AND/OR PROPOSED CATCH BASINS PER BUREAU OF STREET LIGHTING STANDARD DRAWING NO. L-304-0 UNLESS OTHERWISE SPECIFIED.
14. ALL SCREWS PROVIDED FOR ELECTROLIER STANDARD BASE DOORS AND BASE COVERS SHALL BE CADMIUM PLATED STEEL, 1/4-20NC MACHINE SCREWS, WITH PHILLIPS RECESSED ROUND HEADS.
15. WARNING: SAFETY CLEARANCE SHALL BE OBTAINED DAILY FROM THE AFFECTED UTILITY COMPANY BEFORE DOING ANY WORK IN CLOSE PROXIMITY TO ANY OVERHEAD ELECTRIC LINE. SEE SECTIONS 16430 AND 2100 OF SPECIAL SPECIFICATIONS.
16. UNLESS OTHERWISE SPECIFIED HEREON, LUMINAIRES SHALL PROVIDE A MEDIUM, CUTOFF, TYPE III, LIGHTING DISTRIBUTION PATTERN CONFORMING TO I.E.S DESIGNATION.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING THE CONDITION OF ALL EXISTING EQUIPMENT TO BE REUSED, MODIFIED OR RETURNED TO THE BUREAU OF STREET LIGHTING YARD.
18. EQUIPMENT INDICATED "DISPOSE" SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF BY THE CONTRACTOR.
19. STREET LIGHTING CONDUIT SHALL BE INSTALLED BY JACKING OR DRILLING METHODS. INSTALLATION OF CONDUIT BY OPEN TRENCHING IS NOT PERMITTED UNLESS APPROVED BY THE DIRECTOR, BUREAU OF STREET LIGHTING.
20. CONTRACTOR SHALL REPAIR AT HIS COST, THE DAMAGE CAUSED TO EXISTING SPRINKLER SYSTEMS DURING THE CONSTRUCTION OF THIS PROJECT. REPAIRS SHALL BE MADE WITHIN 5 WORKING DAYS AFTER DAMAGE OCCURS.
21. ALL ELECTROLIERS SPECIFIED HEREON SHALL INCLUDE A TYPE 2 PULLBOX, TO BE SUPPLIED AND INSTALLED, UNLESS OTHERWISE SPECIFIED.
22. CONTRACTOR SHALL BE RESPONSIBLE TO ALL EXISTING ELECTROLIERS SPECIFIED TO BE RELOCATED AND MODIFIED ON THIS PLAN. PRIOR TO REINSTALLATION, CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING STREET LIGHTING FACILITIES FOUND TO BE DAMAGED PRIOR TO START OF OR DURING THE CONSTRUCTION OF THIS PROJECT AT NO COST TO THE CITY.

SUPPLEMENTAL NOTES

1. CONTRACTOR SHALL LOCATE & PROTECT SUBSTRUCTURE(S) SHOWN HEREON, & SHALL PROVIDE FOR A MINIMUM 12" HORIZONTAL CLEARANCE BETWEEN FOUNDATION & SUBSTRUCTURES. IN THE EVENT A 12" CLEARANCE CANNOT BE ACHIEVED, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR RELOCATION OF SUBSTRUCTURES AT NO COST TO THE CITY.
2. IN THE EVENT OF OVERHEAD LINES CONFLICT WITH ELECTROLIERS THE CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS WITH THE DEPT. OF WATER AND POWER TO RAISE THEIR OVERHEAD FACILITIES IN ORDER TO PROVIDE FOR THE FOLLOWING CLEARANCES WITH EXISTING AND/OR PROPOSED ELECTROLIERS.
   LOW VOLTAGE: MINIMUM 3' CLEARANCE BETWEEN OVERHEAD LINES AND ELECTROLIERS
   HIGH VOLTAGE: MINIMUM 6' CLEARANCE BETWEEN OVERHEAD LINES AND ELECTROLIERS
3. STREET TREES SHALL NOT BE PLANTED CLOSER THAN 20' FROM EXISTING OR PROPOSED ELECTROLIER, UNLESS OTHERWISE INDICATED.
4. IN THE EVENT OF OVERHEAD COMMUNICATION LINE CONFLICT WITH ELECTROLIERS, CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS TO PROVIDE A MINIMUM 12" CLEARANCE.
5. PROPOSED ELECTROLIER FOUNDATIONS AND PULLBOXES SHALL BE INSTALLED OUTSIDE OF ACCESS RAMP AREAS. EXISTING FOUNDATIONS AND PULLBOXES SHALL BE RECONSTRUCTED TO CLEAR ACCESS RAMPS BY A MINIMUM OF 12". EXISTING CONDUIT SHALL BE LOWERED AS NECESSARY PER SEC. 307-2.5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
6. CONDUIT THAT IS TO BE ABANDONED SHALL HAVE WIRES REMOVED. THE CONDUIT SHALL BE REMOVED TO A DEPTH OF AT LEAST 12" BELOW THE SURFACE AND HAVE BOTH ENDS CRIMPED.
7. NOTWITHSTANDING SECTION 16950.2 OF THE SPECIAL SPECIFICATIONS FOR THE CONSTRUCTION STREET LIGHTING SYSTEMS MAGNETIC REGULATING BALLASTS ARE REQUIRED IN ALL COBRA-HEAD LUMINAIRES.
8. ALL #10 AWG WIRES USED FOR MULTIPLE CIRCUIT ELECTROLIER WIRING REFERENCED IN STANDARD DRAWING NO. L-301-1 SHALL BE #10 AWG SOLID COPPER CONDUCTORS.
9. AT LEAST TWO (2) WORKING DAYS PRIOR TO STARTING ANY EXCAVATION. THE CONTRACTOR MUST OBTAIN AN INQUIRY I.D. NUMBER FROM UNDERGROUND SERVICE ALERT BY CALLING (800) 422-4133 OR BY DIALING 811.

SERIES CIRCUIT NOTES

1. WARNING: SAFETY CLEARANCE SHALL BE OBTAINED DAILY FROM THE SERVING COMPANY, AND "MEN AT WORK" SIGNS SHALL BE POSTED AT THE SERVICE POINT BEFORE ANY WORK IS DONE OR ANY CONNECTIONS MADE ON AN EXISTING CIRCUIT. SEE SECTIONS 16430 AND 2100 OF SPECIAL SPECIFICATIONS.
2. SERIES CIRCUIT WIRE SHALL BE NO. 8 AWG STRANDED COPPER CONDUCTOR, INSULATED WITH 0.110" APPROVED POLYETHYLENE COMPOUND RATED FOR 5,000 VOLT OPERATION.
3. TWO OR MORE TURNS OF SELF-ADHESIVE COLORED TAPE WITH A MINIMUM WIDTH OF 1/2 INCH SHALL BE APPLIED TO EACH CABLE IN ALL SERIES CIRCUITS WHERE WORK IS BEING DONE AND WHERE TWO OR MORE CIRCUITS EXIST IN A COMMON PULLBOX OR POST BASE. THE TAPE SHALL BE APPLIED ON THE CABLE BETWEEN THE SPLICES AND THE CONDUIT, USING ONE COLOR FOR EACH CIRCUIT. THE COLORS WHITE, GRAY, GREEN,AND ORANGE SHALL NOT BE USED.
4. CONTRACTOR SHALL GIVE THE BUREAU OF STREET LIGHTING YARD (PHONE 323-913-4744) TWO WORKING DAYS NOTICE BEFORE ANY WORK IS DONE ON AN EXISTING SERIES CIRCUIT.

CIRCUIT DIAGRAM LEGEND

- NEW WIRE
- EXISTING WIRE
- DISCONNECT AND REMOVE WIRE
- CONNECT WIRE
- DISCONNECT WIRE AND TAPE ENDS
- NEW LAMP
- EXISTING LAMP
- REMOVE EXISTING LAMP

MULTIPLE CIRCUIT NOTES

1. WARNING: SAFETY CLEARANCE SHALL BE OBTAINED DAILY FROM THE SERVING COMPANY BEFORE DOING ANY WORK OR MAKING ANY CONNECTIONS ON AN EXISTING CIRCUIT. SEE SECTIONS 16430 AND 2100 OF SPECIAL SPECIFICATIONS.
2. MULTIPLE CIRCUIT WIRE SHALL BE NO. 8 AWG STRANDED COPPER CONDUCTOR. TYPE THWN/THHN INSULATION, UL APPROVED FOR 600 VOLT OPERATION UNLESS OTHERWISE SPECIFIED HEREON.
3. THREE WIRES (COLOR CODE: 1-RED, 1-BLACK, 1-WHITE,) SHALL BE INSTALLED IN ALL MULTIPLE CIRCUIT CONDUIT UNLESS OTHERWISE PROVIDED FOR HEREON.
4. EVEN NUMBERED ELECTROLIERS SHALL BE CONNECTED TO RED AND WHITE WIRES AND ODD NUMBERED ELECTROLIERS SHALL BE CONNECTED TO BLACK AND WHITE WIRES.
5. ELECTROLIERS SHALL BE WIRED PER TYPICAL MULTIPLE CIRCUIT ELECTROLIER WIRING DETAIL, BUREAU OF STREET LIGHTING STANDARD DRAWING NO. L-301-1, UNLESS OTHERWISE SPECIFIED.
6. MULTIPLE CIRCUITS IN CONDUITS CONTAINING MORE THAN THREE CONDUCTORS SHALL BE APPROPRIATELY IDENTIFIED BY LABELING CONDUCTORS "A", "B", ETC. WITH APPROVED SELF-LAMINATING LETTER TAPE WRAPPED AT LEAST TWICE AROUND THE CONDUCTOR IN EACH PULLBOX. (W.H. BRADY, SPECIAL SELF-LAMINATING WIRE MARKERS OR EQUIVALENT)

LEGEND

- EXISTING ELECTROLIER TO BE RELOCATED
- EXISTING UTILITARIAN LIGHTS ON WOODEN POLES WHICH SHALL BE MAINTAINED IN SERVICE UNTIL THE PERMANENT ELECTROLIER LIGHTING SYSTEM IS PLACED IN SERVICE. CONTRACTOR MAY PROVIDE ALTERNATE LIGHTING IN LIEU OF MAINTAINING EXISTING UTILITARIAN LIGHTS IN SERVICE PROVIDED THAT SUCH ARRANGEMENTS ARE APPROVED BY THE ENGINEER.
- EXISTING ELECTROLIER TO BE REMOVED AND DELIVER EXISTING LED LUMINAIRES TO BSL FOD, (TOTAL: 69)
- NEW ELECTROLIER
- EXISTING ELECTROLIER, NOT TO BE REMOVED OR MODIFIED
- PULLBOX TYPE 2 UNLESS OTHERWISE SHOWN HEREON. (SEE DELTA NO. 26). ADDITIONAL PULLBOXES SHALL BE REQUIRED AS SPECIFIED.
- EXISTING PULLBOX
- EXISTING 1" CONDUIT
- EXISTING 1-1/2" CONDUIT
- EXISTING 2" CONDUIT
- NEW 1" CONDUIT
- NEW 1-1/2" CONDUIT
- NEW 2" CONDUIT
- ABANDON CONDUIT (SEE GENERAL NOTE NO.8 & SUPPLEMENTAL NOTE NO. 6)
- EXISTING ELECTROLIER FOUNDATION
- FUTURE ELECTROLIER
- PROPOSED CATCH BASIN
- FOR PROP. 218 AND GIS SECTION USE ONLY. (GENERAL BENEFIT)

NOTICE TO CONTRACTORS
MATERIAL LIST

FOLLOWING IS A SUMMARY OF NEW ELECTROLIERS, LUMINAIRES, LAMPS, BALLASTS, FOUNDATIONS, AND OTHER EQUIPMENT WHICH SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. THIS IS NOT INTENDED TO BE A COMPLETE LIST OF ALL MATERIALS REQUIRED

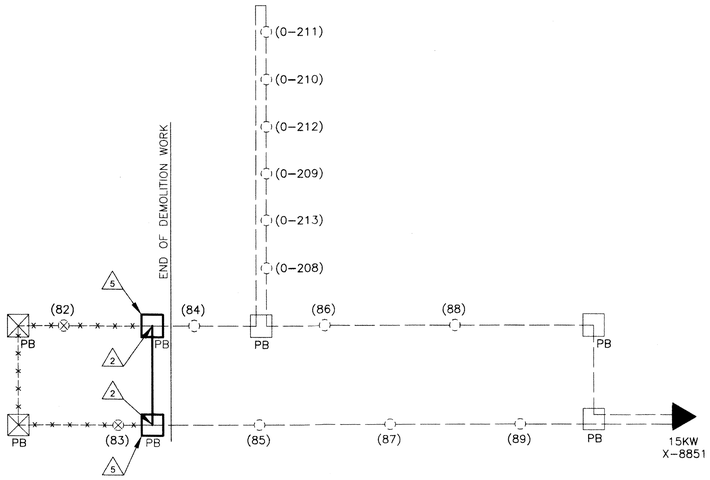
SYMBOL	ITEM	QUANTITY	DESCRIPTION	STANDARD PLAN NO.	REV. NO.	NOMINAL WATTAGE
			NONE			

⊗ REMOVE AND DELIVER 69 LED LUMINAIRES TO FOD PER GENERAL NOTE NO. 10. AND DELIVER EXISTING BASE PLATE COVER TO BSL, FOD.

② DELIVER EXISTING INDUCTION UNIT TO BSL, FOD PER GEN NOTE NO. 10. (TOTAL: 10)

① FOR STREET LIGHTS #82 & #83: REMOVE AND DELIVER 2 CD929A ELECTROLIERS TO FOD PER GENERAL NOTE NO. 10. REMOVE AND DISPOSE OF 2 EXISTING LUMINAIRES AND LAMPS.

THE CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS AND USE EXTREME CARE IN REMOVING AND TRANSPORTING EXISTING EQUIPMENT TO THE BUREAU OF STREET LIGHTING FIELD OPERATIONS DIVISION (FOD) YARD.

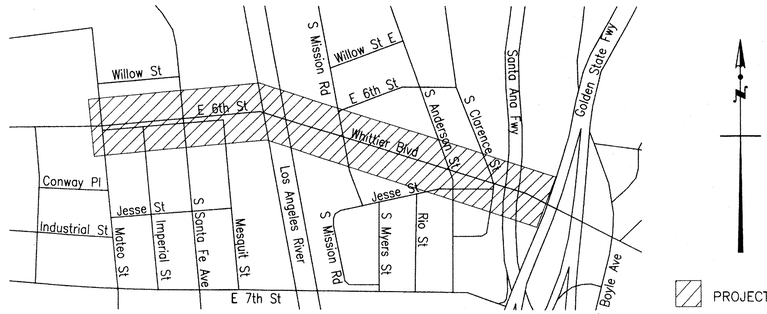


SERIES CIRCUIT X-8851 REMOVAL DIAGRAM

NOT TO SCALE

PLAN OF ELECTROLIER LIGHTING SYSTEM

(M)=MAJOR, (S)=SECONDARY, (L)=LOCAL, (C)=COLLECTOR STREET	FROM	TO
E 6TH ST (S) / WHITTIER BLVD (S)	MATEO ST (S)	GOLDEN STATE FWY (M)



VICINITY MAP

NOT TO SCALE

ALL CONSTRUCTION IS PROHIBITED ON MAJOR AND SECONDARY STREET BETWEEN:
6:00 A.M. TO 9:00 A.M.
3:30 P.M. TO 7:00 P.M.

NOTICE TO CITY INSPECTOR/CONTRACTOR
STREET LIGHTING CIRCUIT CLEARANCE

* HIGH VOLTAGE CIRCUIT CLEARANCE REQUESTS SHALL BE MADE TO THE BUREAU OF STREET LIGHTING, AND SHALL BE PERFORMED BY CITY CREWS.
* LOW VOLTAGE CIRCUITS CLEARANCE SHALL BE PERFORMED BY THE QUALIFIED CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT.
* PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF THE PLAN (24" x 36") AND NOTIFY THE INSPECTOR TO SUBMIT "CONSTRUCTION START NOTICE" AND M-21 FORM TO LADWP STREET LIGHT SUPPORT (111 N. HOPE STREET, RM 910, LOS ANGELES, CA 90012)

FOR DETAILED CIRCUIT CLEARANCE PROCEDURES, SEE bsl.lacity.org (CLICK ON THE BUSINESS/CONTRACTORS LINK)

STREET LIGHTING DEMOLITION PLANS
SIXTH STREET VIADUCT REPLACEMENT
W.O. E700224L (TASK 013) SL-7494

28 INSTALL TYPE 3 PULLBOX FOR DWP SERVICE. ALL TYPE 3 PULLBOXES SHALL BE OF "COMPOSITE/POLYMER" MATERIAL, W/BOLT-DOWN LID AND SHALL COMPLY WITH STANDARD PLAN "COMPOSITE TYPE 3, REV A" AND APPROVED BY BUREAU OF STREETLIGHTING.
27 CONTRACTOR SHALL LOCATE AND PROTECT STREET LIGHTING PULLBOX PRIOR TO TERMINATING NEW CONDUIT TO PULLBOX. IN THE EVENT THE PULLBOX DOES NOT EXIST OR IS MISSING, THE CONTRACTOR SHALL CONTACT THE PRIVATE ENGINEER (ENGINEER ON RECORD) AND BUREAU OF STREET LIGHTING TO OBTAIN AN APPROVAL FOR THE INSTALLATION OF NEW PULLBOX AT NO COST TO THE CITY.
26 INSTALL FUSE HOLDER(S), FUSE(S) AND CONNECT WIRES INSIDE TYPE 2 PULLBOX.
25 INSTALL TYPE 2 PULLBOX. ALL PULLBOXES SPECIFIED SHALL BE OF "COMPOSITE/POLYMER" MATERIAL WITH BOLT-DOWN LID AND SHALL COMPLY WITH STANDARD PLAN "COMPOSITE TYPE 2, REV B" AND APPROVED BY BUREAU OF STREETLIGHTING.
24 TAPE ENDS OF SPARE WIRE.
23 INSTALL THREE MULTIPLE CIRCUIT WIRES: (COLOR CODE: 1-RED, 1-BLACK, 1-WHITE)
22 REMOVE EXISTING STREET LIGHTING WIRES.
21 MULTIPLE SERVICE LOCATION. INTERCEPT CONDUIT INSTALLED BY OTHERS AND INSTALL TYPE 3 SERVICE PULLBOX. VERIFY EXACT LOCATION OF CONDUIT. PHONE DEPT. OF WATER AND POWER UNDERGROUND ENGINEERING FIVE DAYS PRIOR TO START OF WORK AT THIS LOCATION. (PHONE: 213-367-3003)
20 CONTRACTOR SHALL REQUEST A PERMIT TO PRUNE TREE FROM THE URBAN FORESTRY DIVISION (213) 847-3077, FIVE DAYS PRIOR TO THE INSTALLATION OF ELECTROLIER. ALL TREE WORK SHALL BE PERFORMED TO TREE CARE PROFESSION BEST MANAGEMENT PRACTICES AND TO THE SATISFACTION OF THE URBAN FORESTRY DIVISION.
19 INSTALL APPROVED CONNECTING DEVICES PER DETAIL "B", BUREAU OF STREET LIGHTING STANDARD DRAWING NO. L-301-1.
18 INSTALL APPROVED CONNECTING DEVICES PER DETAIL "A", BUREAU OF STREET LIGHTING STANDARD DRAWING NO. L-301-1.
17 MULTIPLE SERVICE LOCATION. INSTALL 10' OF 2" GALVANIZED CONDUIT SERVICE RISER ON POLE. EXTEND CONDUIT TO THE ALLEY B.C. AND INSTALL TYPE 3 PULLBOX UNLESS OTHERWISE SPECIFIED. INSTALL PULLWIRE.
16 INSTALL FIVE MULTIPLE CIRCUIT WIRES: (COLOR CODE: 2-RED, 2-BLACK, 1-WHITE)
15 INSTALL TWO MULTIPLE CIRCUIT WIRES: (COLOR CODE: 1-BLACK, 1-WHITE)
14 INSTALL TWO MULTIPLE CIRCUIT WIRES: (COLOR CODE: 1-RED, 1-WHITE)
13 INSTALL 1" CONDUIT BEND.
12 INSTALL ADDITIONAL 2" CONDUIT BEND FOR TRAFFIC SIGNAL WIRING.
11 INSTALL ONE APPROVED FUSE HOLDER WITH 30 AMP FUSE BETWEEN EACH SERVICE WIRE (NOT NEUTRAL WIRE) OR SERVICE WIRE CONNECTING DEVICE AND STREET LIGHTING CIRCUIT WIRE. SERVING COMPANY WILL INSTALL SERVICE.
10 JOIN CONDUIT
9 MULTIPLE SERVICE LOCATION. INSTALL TYPE 3 PULLBOX UNLESS OTHERWISE SPECIFIED AND 10' OF 2" GALVANIZED CONDUIT SERVICE RISER ON POLE. INSTALL PULLBOX NO CLOSER THAN 5' AND NO FARTHER THAN 15' FROM THE SERVICE POLE.
8 SERIES SERVICE POLE. INSTALL ONE TERMINAL CUTOFF BOX STANDARD PLAN B-3724 WITH ONE DISCONNECTING SWITCH FOR EACH CIRCUIT. SERVING COMPANY WILL INSTALL SERVICE.
7 CONSTRUCT CASE 4 DRIVEWAY RETURN PER STANDARD PLAN NO. S-440
6 CONSTRUCT CASE 3 DRIVEWAY RETURN PER STANDARD PLAN NO. S-440.
5 INTERCEPT CONDUIT AND INSTALL PULLBOX.
4 THREAD AND CAP CONDUIT AT END OF IMPROVEMENT.
3 INSTALL CONDUIT ONLY.
2 CONNECT WIRES (PER CIRCUIT DIAGRAM WHERE APPLICABLE).
1 TERMINATE CONDUIT IN STREET LIGHTING PULLBOX.

THE ABOVE NOTES ARE APPLICABLE ONLY WHERE SPECIFIED ON THIS PLAN.

DELTA NOTES

PLANS PREPARED BY:
HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071

Lee Bragg 2/20/2015
SIGNATURE DATE

REGISTERED PROFESSIONAL ENGINEER LEE M. BRAGG No. E20761 Exp. 6/30/16 ELECTRICAL STATE OF CALIFORNIA

CITY OF LOS ANGELES
ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING

OTHER DEPARTMENT/BUREAU ACCEPTANCE			ACCEPTANCE	
DEPARTMENT OR BUREAU	ENGINEER	DATE		
ENGINEERING, DISTRICT OFFICE			STREET LIGHTING ENGINEER	2-26-15 DATE
DEPT. OF TRANSPORTATION				
STREET SERVICES, URBAN FORESTRY			SENIOR STREET LIGHTING ENGINEER	2-26-15 DATE
ENGINEERING, STRUCTURAL			DIRECTOR, BUREAU OF STREET LIGHTING	2-26-15 DATE

DRAWING NO.
BSLD-100

BUREAU OF ENGINEERING OFFICIAL RECORD

SCALE OF ORIGINAL PLAN: 1" = 40' SHEET 20 OF SHEET(S) INDEX NUMBER D-34619

SIGNATURES		DATE
FIELD SURVEY BY		
DRAWN BY	RYAN JOHNSON	02/20/15
DESIGNED BY	LEE BRAGG	02/20/15
CHECKED BY		2-20-15
SUPERVISED BY		2-20-15

DM : 124-5A217 P.M. NO.: 284 27BSE
ELECTROLIER UNIT: 0
SUPERSEDES PLAN NO:
COUNCIL DISTRICT: 14
THOMAS GUIDE: 634-H5, 634-J5
COUNTY ASSESSOR'S PARCEL NO'S: 5164-015-901, 5164-015-902, 5164-015-021

CONTRACTOR: ELECTS.: LAMPS:
INSPECTED BY: ELECTS.: LAMPS:
DATE ENERGIZED ELECTS.: LAMPS:
DATE ENERGIZED ELECTS.: LAMPS:
CORRECTED TO "AS BUILT" CHECKED
BY

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF STREET LIGHTING

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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12/14/2015

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ELECTROLIER (91)
SL-6546
D-28321
DL-1003
55W INDUCTION UNIT

ELECTROLIERS (65)-(90)
SL-6546
D-28321
DL-1003
185W BETA 100LED-B

CKT "2B"

(81) (91) (80) (79) (78) (77) (76) (75) (74) (73) (72) (71) (70)

E 6TH ST

(1) (90) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)

CKT "2A"

ELECTROLIER (90)
SL-6546
D-28321
DL-1003
55W INDUCTION UNIT

EXISTING MULT. ST. LTG. CKT. NO. 2
PP #318345M S/E QUAD.
EXISTING: CKT "A": 1-55W INDUCTION UNIT - PMA LUMINAIRE (NO. (90))
11-185W BETA LEDWAY 100LED (NOS. (2)-(12))
EXISTING: CKT "B": 1-55W INDUCTION UNIT - PMA LUMINAIRE (NO. (91))
9-185W BETA LEDWAY 100LED (NOS. (72)-(80))
REMOVE: ALL LAMPS

ELECTROLIERS (2)-(17)
SL-6546
D-28321
DL-1003
185W BETA 100LED-B

MATEO ST

IMPERIAL ST

S SANTA FE AVE

SEE BELOW FOR CONTINUATION

Provide 72 hours advance notice to City's ECR consultant Galvin Preservation Associates, Inc. (GPA telephone 310- 792-2690) to coordinate removal. All 21 poles are to be carefully removed and protected in place on Parcel No.1. The 21 poles and one steel arch will be re-incorporated into the landscape design pursuant to the Viaduct Environmental Re-Validation documentation.

SEE ABOVE FOR CONTINUATION

(69) (68) (67) (66) (65) (64) (63) (62) (61) (60) (22)

E 6TH ST

(13) (14) (15) (16) (17) (18) (19) (20) (21)

MESQUIT ST

LOS ANGELES RIVER

ELECTROLIERS (63)-(64)
SL-6546
D-28321
DL-1003
55W INDUCTION UNIT

ELECTROLIERS (44)-(62)
SL-6546
D-28321
DL-1003
185W BETA 100LED-B

ELECTROLIERS (18)-(19)
SL-6546
D-28321
DL-1003
55W INDUCTION UNIT

ELECTROLIERS (20)-(39)
SL-6546
D-28321
DL-1003
185W BETA 100LED-B

SEE BSLD-102 FOR CONTINUATION

SCALE 1" = 40'-0"

CONSTRUCTION	DESIGNED BY:	DATE ENGINEERED	DATE ENGINEERED	DATE ENGINEERED	CORRECTED TO "AS BUILT"	CHECKED
						AF

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET LIGHTING

PLANS PREPARED BY:
HNTB Corporation
One Bunker Hill Bldg.
601 West 5th St., Ste 1000
Los Angeles, California 90071
Lee Bragg 2/26/2015
DESIGNER DATE

REGISTERED PROFESSIONAL ENGINEER
LEE M. BRAGG
No. E20761
Exp. 6/30/16
ELECTRICAL
STATE OF CALIFORNIA

Demo Package Addendum No. 4 Sketch

Sheet 1 of 2

CITY OF LOS ANGELES
ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING
ACCEPTED: DIRECTOR, BUREAU OF STREET LIGHTING 2-26-15 DATE

DRAWING NO.
BSLD-101

SCALE OF ORIGINAL PLAN: 1" = 40' | SHEET OF SHEETS | INDEX NUMBER

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

EXISTING U.G. MULT. ST. LTG. CKT. NO. 3 (VLT 651 MISSION BLVD)
UNDERGROUND DWP TRANSFORMER
EXISTING: CKT "A": 2-55W INDUCTION UNIT – PMA LUMINAIRE (NOS. (42)-(43))
12-185W BETA LEDWAY 100LED (NOS. (44)-(57))
EXISTING: CKT "B": 2-55W INDUCTION UNIT – PMA LUMINAIRE (NOS. (40)-(41))
14-185W BETA LEDWAY 100LED (NOS. (25)-(39))
EXISTING: CKT "C": 2-55W INDUCTION UNIT – PMA LUMINAIRE (NOS. (63)-(64))
13-185W BETA LEDWAY 100LED (NOS. (58)-(62),(65)-(71))
EXISTING: CKT "D": 2-55W INDUCTION UNIT – PMA LUMINAIRE (NOS. (18)-(19))
10-185W BETA LEDWAY 100LED (NOS. (13)-(17),(20)-(24))
REMOVE: ALL LAMPS

ELECTROLIERS (44)-(62)
SL-6546
D-28321
DL-1003
185W BETA 100LED-B

ELECTROLIERS (20)-(39)
SL-6546
D-28321
DL-1003
185W BETA 100LED-B

See Notes on Demo Package Addendum No. 4 Sketch Sheet 1 of 2

ELECTROLIERS (42)-(43)
SL-6546
D-28321
DL-1003
55W INDUCTION UNIT

ELECTROLIERS (40)-(41)
SL-6546
D-28321
DL-1003
55W INDUCTION UNIT

ELECTROLIERS (82)-(89)
D-28321
DL-1003
200W HPS

STATE MAINTENANCE AGREEMENT, CITY CONTRACT NO. 65895, MAINTAINED BY CITY

EXISTING SERIES CIRCUIT X-8851, 15KW
PP# 91047M (BOYLE AVE W/S 105' S/O WHITTIER BL)
EXISTING: 8-200W HPS (NOS. (82)-(89))
6-400W MV (NOS. (0-208)-(0-213))
REMOVE: 2-200W HPS (NOS. (82)-(83))
NEW LOAD: 4.14KW
SEE SERIES CIRCUIT DIAGRAM ON DRAWING BSLD-100

CONTRACTOR TO PROTECT AND SUPPORT STREET LIGHTING EQUIPMENT DURING CONSTRUCTION.

Demo Package Addendum No. 4 Sketch
Sheet 2 of 2

SCALE 1" = 40'-0"

PLANS PREPARED BY:
HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071
2/20/2015

LEE N. BRAGG No. E20761 Exp. 6/30/16 ELECTRICAL STATE OF CALIFORNIA

CITY OF LOS ANGELES
ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING
ACCEPTED: 2-24-15

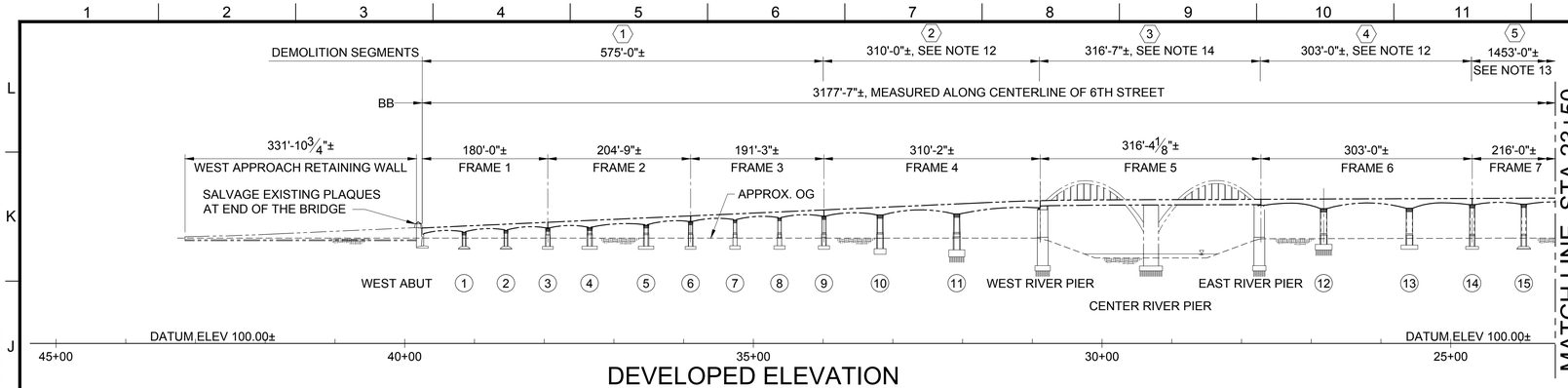
DRAWING NO. BSLD-102

SCALE OF ORIGINAL PLAN: 1" = 40'
SHEET OF SHEETS
INDEX NUMBER

CONSTRUCTION
APPROVED BY:
AS-BUILT CHECKED
AS-BUILT ENGINEER
CORRECTED TO "AS BUILT"
BY
CHECKED

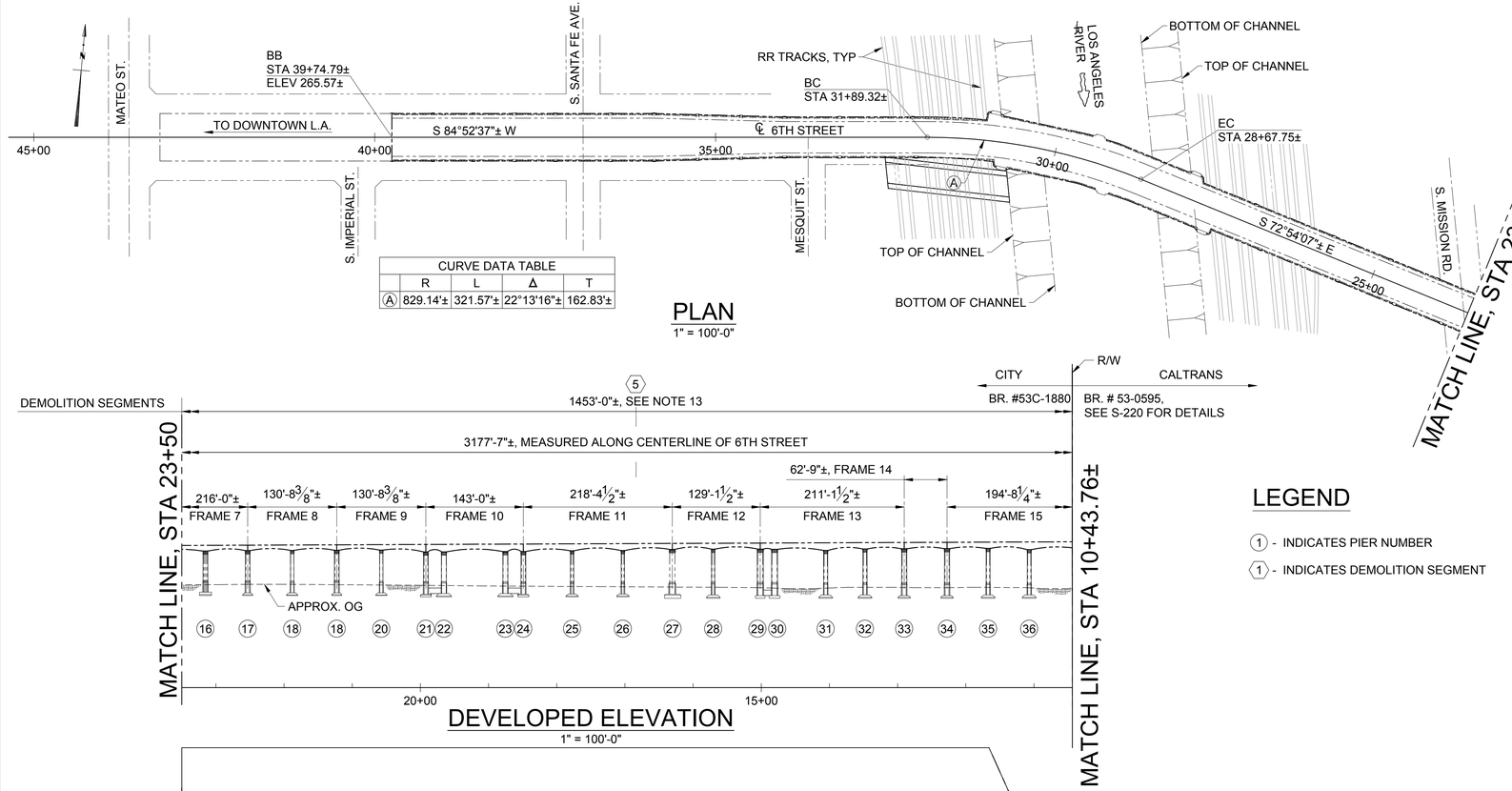
DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET LIGHTING
CITY OF LOS ANGELES

C:\cadd\bslp\pw\pwwestcoast\bragg\dms84848\BSLD-101-102.dwg Feb 19, 2015 - 1:37pm



DEVELOPED ELEVATION

1" = 100'-0"



PLAN

1" = 100'-0"

DEVELOPED ELEVATION

1" = 100'-0"

PLAN

1" = 100'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND

(1) - INDICATES PIER NUMBER

(1) - INDICATES DEMOLITION SEGMENT

GENERAL DEMOLITION NOTES

1. DESIGN SPECIFICATIONS AND GUIDELINES:
   AASHTO "THE MANUAL FOR BRIDGE EVALUATION", 2ND EDITION WITH 2013 INTERIM REVISIONS; UNION PACIFIC RAILROAD "GUIDELINES FOR PREPARATION OF A BRIDGE DEMOLITION AND REMOVAL PLAN FOR STRUCTURES OVER RAILROAD" (1998); CALTRANS "FALSEWORK MANUAL" (1988); AND THESE GENERAL DEMOLITION NOTES. WHEN A CONFLICT OCCURS, THESE NOTES SHALL GOVERN. THE ANALYSIS AND DEMOLITION SEQUENCE OF THE EXISTING REINFORCED CONCRETE STRUCTURES SHALL BE BASED ON LOAD FACTOR DESIGN (LFD); AND ANALYSIS AND DEMOLITION SEQUENCE OF THE EXISTING STEEL ARCH STRUCTURE SHALL BE BASED ON ALLOWABLE STRESS DESIGN (ASD).

2. LIVE LOAD IMPACT:
   NORMAL CONSTRUCTION EQUIPMENT SHALL HAVE A 30% IMPACT FACTOR APPLIED, WHILE EQUIPMENT SUCH AS RAM HOES THAT ARE SUBJECT TO VIBRATION SHALL HAVE 50% IMPACT FACTOR.

3. WIND LOAD:
   CALTRANS "BRIDGE DESIGN SPECIFICATIONS (BDS)" (2004) SHALL BE FOLLOWED TO DETERMINE THE WIND EFFECT. THE WIND PRESSURE ACTING AT SKEW ANGLE AS LISTED IN SECTION 3.15.2.1.1 OF BDS MAY BE SCALED DOWN ACCORDINGLY.

4. EXISTING REINFORCED CONCRETE:
   CONCRETE: f'c = 2,000 psi
   REINFORCING STEEL: fy = 44,000 psi

5. EXISTING STRUCTURAL STEEL:
   Fu = 40,000 psi
   Fy = 36,000 psi

6. THE CONCEPTUAL DEMOLITION SCHEME SHOWN ON THESES DRAWINGS HAS BEEN SHOWN FOR INFORMATION ONLY. THE ACTUAL DEMOLITION SEQUENCE AND METHOD OF DEMOLITION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT DEMOLITION PLANS PREPARED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF CALIFORNIA TO THE ENGINEER FOR AUTHORIZATION PRIOR TO ANY WORK.

7. ADEQUATE STRENGTH AND STABILITY OF THE STRUCTURE OR PARTIALLY DEMOLISHED STRUCTURE SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION PROCESS. DEPENDING ON DEMOLITION SEQUENCE AND EQUIPMENT USED, EXISTING STRUCTURE MEMBERS AND CONNECTIONS MAY REQUIRE STRENGTHENING AND/OR SUPPLEMENTAL BRACING.

8. LOCKED-IN FORCE IN MEMBERS DUE TO PREVIOUS ERECTION SEQUENCE SHALL BE CONSIDERED IN DISMANTLING PROCEDURES. MEMBERS UNDER STRESS SHALL BE UNLOADED TO A LEVEL THAT WILL NOT RESULT IN A SUDDEN REDISTRIBUTION OF MEMBER FORCES OR EXCESSIVE DISPLACEMENT. THE AS-BUILT INFORMATION MAY NOT REVEAL THE TRUE MAGNITUDE OF THE FORCES. CONTRACTOR SHALL EXERCISE THE BEST PRACTICES TO ENVELOPE LIKELY MAXIMUM EFFECTS AND DESIGN A DEMOLITION SEQUENCE ACCORDINGLY.

9. CONSTRUCTION IN THE LA RIVER IS LIMITED FROM APRIL 15TH TO OCTOBER 15TH, OR AS DIRECTED BY THE CORPS OF ENGINEER. THE CONTRACTOR SHALL REPAIR THE RIVER LINING IF DAMAGED DURING THE DEMOLITION.

10. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY AGENCIES PRIOR TO BRIDGE DEMOLITION.

11. THE CONTRACTOR SHALL BE AWARE OF THE EXISTING 230KV HIGH VOLTAGE POWER LINES LOCATED ON BOTH SIDES OF THE LA RIVER, AND SHALL WORK WITH EXTREME CARE DURING DEMOLITION OF THE BRIDGE. THE LOS ANGLES DEPARTMENT OF WATER AND POWER (LADWP) MUST BE NOTIFIED PRIOR TO START OF ANY WORK IN THE VICINITY OF THE POWER LINES. THE MINIMUM VERTICAL AND HORIZONTAL CLEARANCE TO THE POWER LINES AT ANY TIME FOR ANY EQUIPMENT, TOOLS, FALSEWORK, CRANES, AND PILING EQUIPMENT, ETC., SHALL CONFORM TO LADWP CLEARANCE REQUIREMENTS, BUT NO LESS THAN 17.00 FEET.

12. THE CONTRACTOR SHALL PROTECT THE RAILROAD TRACKS, TIES, AND BALLAST FROM EQUIPMENT AND DEBRIS BY CONSTRUCTING TEMPORARY PROTECTIVE MEASURES. THE CONTRACTOR SHALL SUBMIT RAILROAD PROTECTION PLANS TO THE RESPECTIVE RAILROAD AGENCIES FOR APPROVAL.

13. THE CONTRACTOR SHALL IMPLEMENT METHODS TO PROTECT ALL BUILDINGS AND ROADWAYS ADJACENT TO OR BELOW THE DEMOLITION WORK FROM DEBRIS AND DUST. THESE METHODS SHALL BE SHOWN IN THE CONTRACTOR'S DEMOLITION PLAN.

14. ALL WORK WITHIN RAILROAD RIGHT OF WAY SHALL BE SCHEDULED FOLLOWING EACH RAILROAD'S WORK WINDOW REQUIREMENTS. PERMISSION SHALL BE OBTAINED FROM RAILROADS PRIOR TO WORK.

INDEX TO PLANS:

SHEET NO.	SHEET TITLE
S-201	GENERAL PLAN
S-202	DEMOLITION PLAN NO. 1
S-203	DEMOLITION PLAN NO. 2
S-204	DEMOLITION PLAN NO. 3
S-205	DEMOLITION PLAN NO. 4
S-206	DEMOLITION PLAN NO. 5
S-207	DEMOLITION PLAN NO. 6
S-208	DEMOLITION PLAN NO. 7
S-209	TYPICAL SECTION NO. 1
S-210	TYPICAL SECTION NO. 2
S-211	TYPICAL SECTION NO. 3
S-212	TYPICAL SECTION NO. 4
S-213	TYPICAL SECTION NO. 5
S-214	TYPICAL SECTION NO. 6
S-215	TYPICAL SECTION NO. 7
S-216	LABSS FACILITY

BUREAU OF ENGINEERING
OFFICIAL RECORD

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE	BY:

STRUCTURE NO. 53C-1361

INDEX NO. D-34619

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER KANG CHEN NO. 51395 EXP. 06-30-2016 STATE OF CALIFORNIA

GARY LEE MOORE, P.E.
CITY ENGINEER
DATE:
LIC. NO. 51395

ENGINEER:	KANG CHEN
DESIGN GROUP	
DESIGNED BY:	XIANGYANG FU
DRAWN BY:	KAI WANG
CHECKED BY:	KANG CHEN
APPROVED BY:	ROBERT E. SENNETT IV

VERTICAL CONTROL: NGVD29, 1985 ADJ
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: GENERAL PLAN

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION

ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

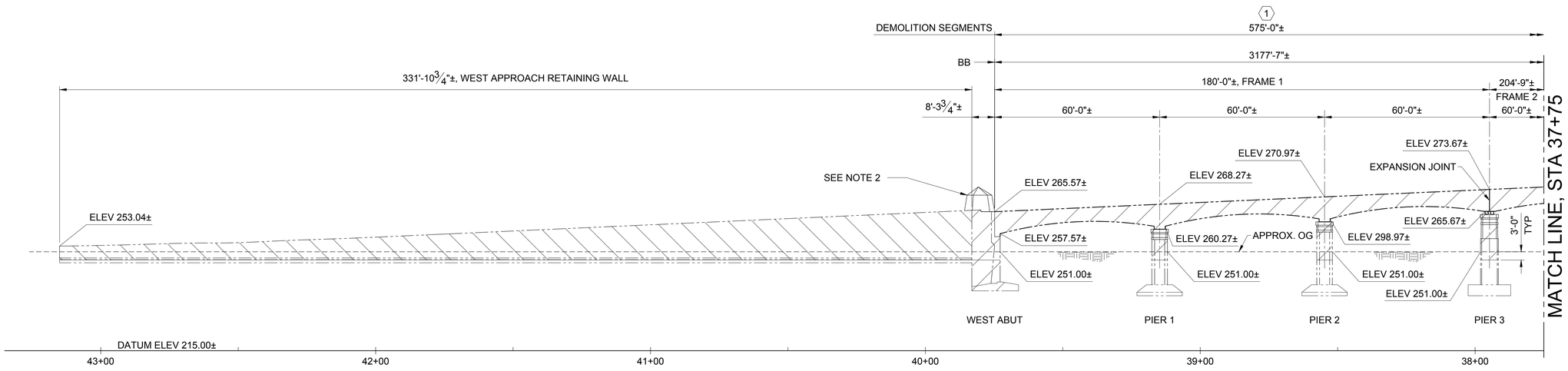
WORK ORDER NO. E700227F

DRAWING NO. S-201

SHEET 23 OF 52 SHEETS

REVISION DATES (DESIGN STAGE ONLY)
5/14/15
7/6/15

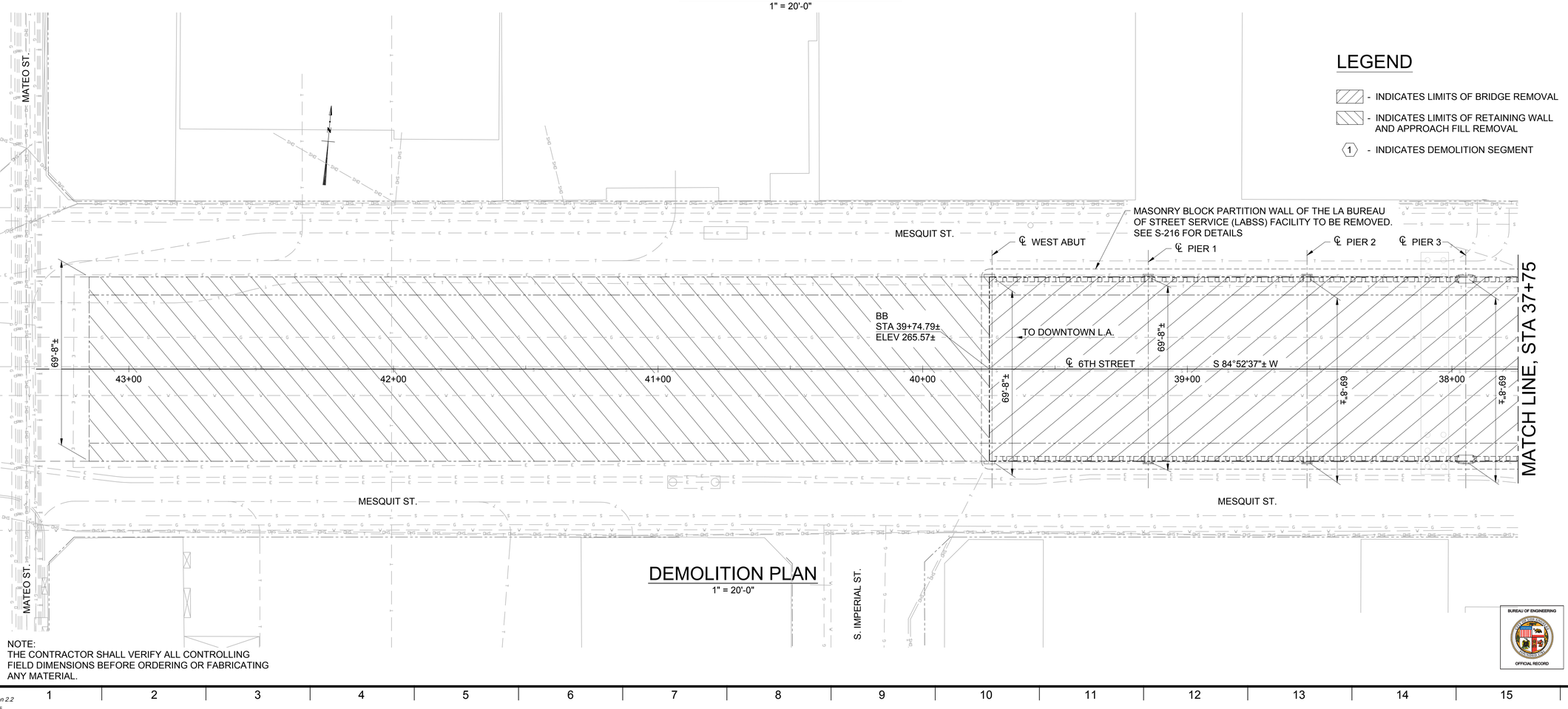
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DEVELOPED ELEVATION

1" = 20'-0"

NOTES:
1. ALL DIMENSIONS MEASURED ALONG CENTERLINE OF 6TH STREET.
2. SALVAGE EXISTING PLAQUES AT BOTH ENDS OF THE BRIDGE



DEMOLITION PLAN

1" = 20'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND

- INDICATES LIMITS OF BRIDGE REMOVAL
- INDICATES LIMITS OF RETAINING WALL AND APPROACH FILL REMOVAL
- (1) INDICATES DEMOLITION SEGMENT

BUREAU OF ENGINEERING

OFFICIAL RECORD

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

ENGINEERING CITY OF LOS ANGELES

STRUCTURE NO. 53C-1361

INDEX NO. D-34619

NO.	REVISIONS:	DATE:	BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER KANG CHEN NO. 51395 EXP. 06-30-2016 STATE OF CALIFORNIA

GARY LEE MOORE, P.E. CITY ENGINEER DATE:
LIC. NO. 51395

ENGINEER:	KANG CHEN
DESIGN GROUP	
DESIGNED BY:	XIANGYANG FU
DRAWN BY:	KAI WANG
CHECKED BY:	KANG CHEN
APPROVED BY:	ROBERT E. SENNETT IV

VERTICAL CONTROL: NGVD29, 1985 ADJ
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: DEMOLITION PLAN NO. 1

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION

ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

WORK ORDER NO. E700227F

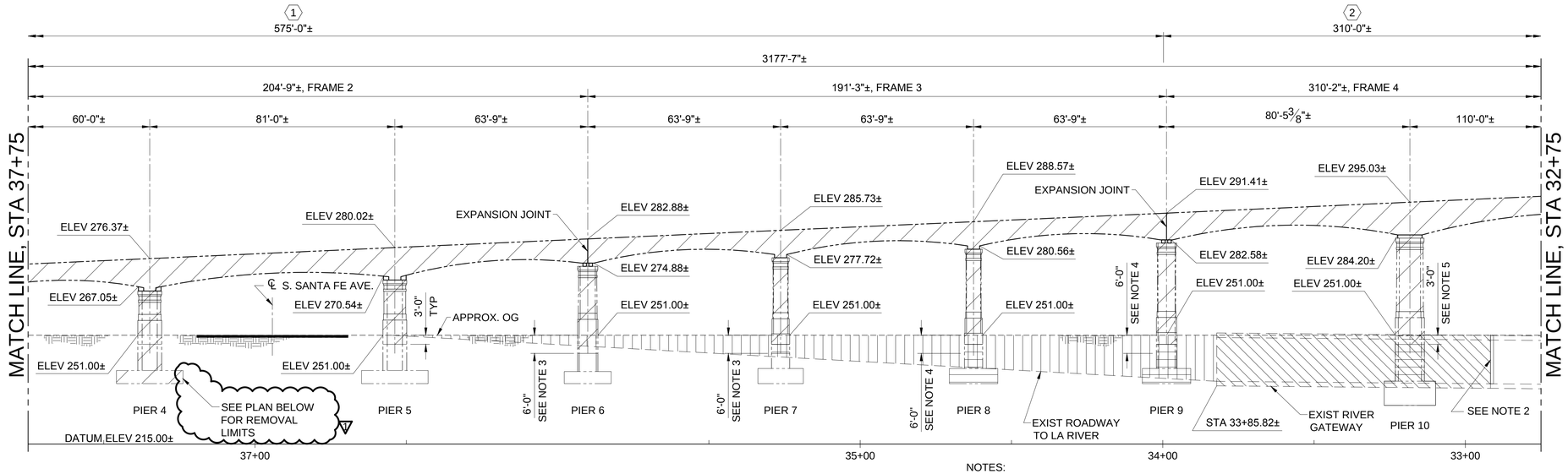
DRAWING NO. S-202

SHEET 24 OF 52 SHEETS

REVISION DATES (DESIGN STAGE ONLY)
5/14/15
7/6/15

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Sheet Version 2.2
12/14/2015



DEVELOPED ELEVATION

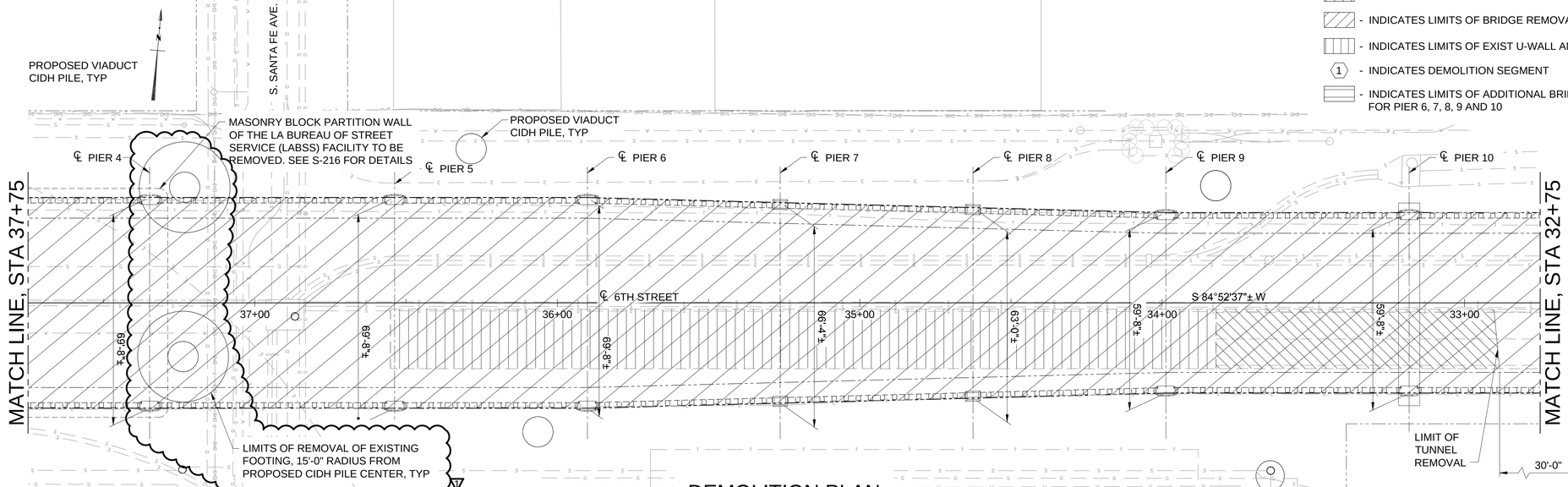
1" = 20'-0"

NOTES:

1. ALL DIMENSIONS MEASURED ALONG CENTERLINE OF 6TH STREET.
2. SAW CUT 2" BEFORE CONCRETE REMOVAL. PROTECT EXISTING TUNNEL WALL REBAR BY PVC PIPE SLEEVE WITH CAP OVER ALL BARS.
3. REMOVE PIER ON NORTH SIDE TO 6'-0" BELOW THE EXISTING GRADE. REMOVE THE PIERS AT MIDDLE AND ON SOUTH SIDE TO BOTTOM OF U-WALL.
4. REMOVE PIER ON NORTH SIDE TO 6'-0" BELOW THE EXISTING GRADE. FULLY REMOVE THE PIERS AND FOOTINGS AT MIDDLE AND SOUTH SIDE.
5. REMOVE PIER ON NORTH SIDE TO 3'-0" BELOW THE EXISTING GRADE. REMOVE THE PIERS AT MIDDLE AND ON SOUTH SIDE TO TOP OF PIER FOOTING.

LEGEND

- INDICATES LIMITS OF EXIST RIVER GATEWAY TUNNEL REMOVAL
- INDICATES LIMITS OF BRIDGE REMOVAL
- INDICATES LIMITS OF EXIST U-WALL AND ROADWAY TO LA RIVER REMOVAL
- (1) INDICATES DEMOLITION SEGMENT
- INDICATES LIMITS OF ADDITIONAL BRIDGE REMOVAL FOR PIER 6, 7, 8, 9 AND 10



DEMOLITION PLAN

1" = 20'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY): 5/14/15 | 10/14/15 | 10/23/15

Sheet Version 2.2

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

ENGINEERING — CITY OF LOS ANGELES

NO.	REVISIONS:	DATE:	BY:
1	REMOVAL LIMITS CHANGE		

STRUCTURE NO. 53C-1361

INDEX NO.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — KANG CHEN — NO. 51395 — EXP. 06-30-2016 — STATE OF CALIFORNIA

GARY LEE MOORE, P.E. — CITY ENGINEER — DATE:
LIC. NO. 51395

DESIGN GROUP	
ENGINEER:	KANG CHEN
DESIGNED BY:	XIANGYANG FU
DRAWN BY:	KAI WANG
CHECKED BY:	KANG CHEN
APPROVED BY:	ROBERT E. SENNETT IV

VERTICAL CONTROL: NGVD29, 1985 ADJ
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: DEMOLITION PLAN NO. 2

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION

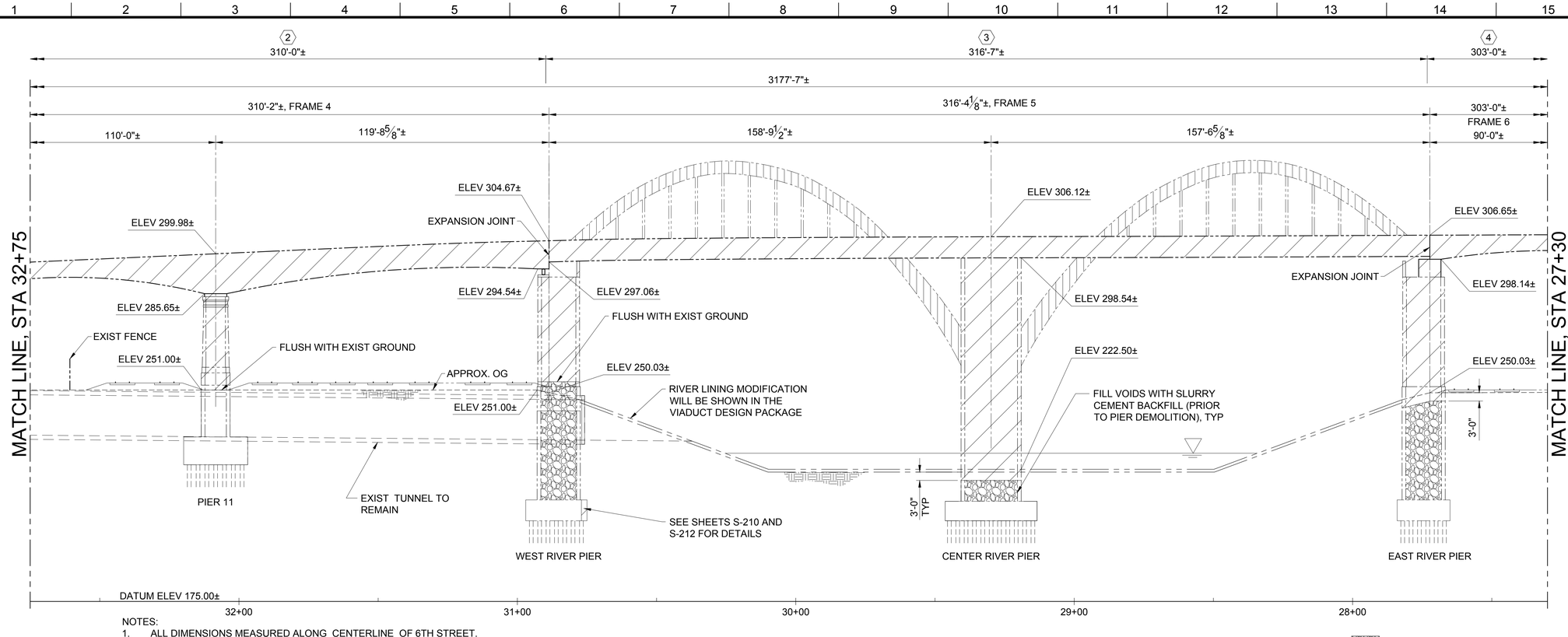
ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

WORK ORDER NO. E700227F

DRAWING NO. S-203

SHEET 25 OF 52 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

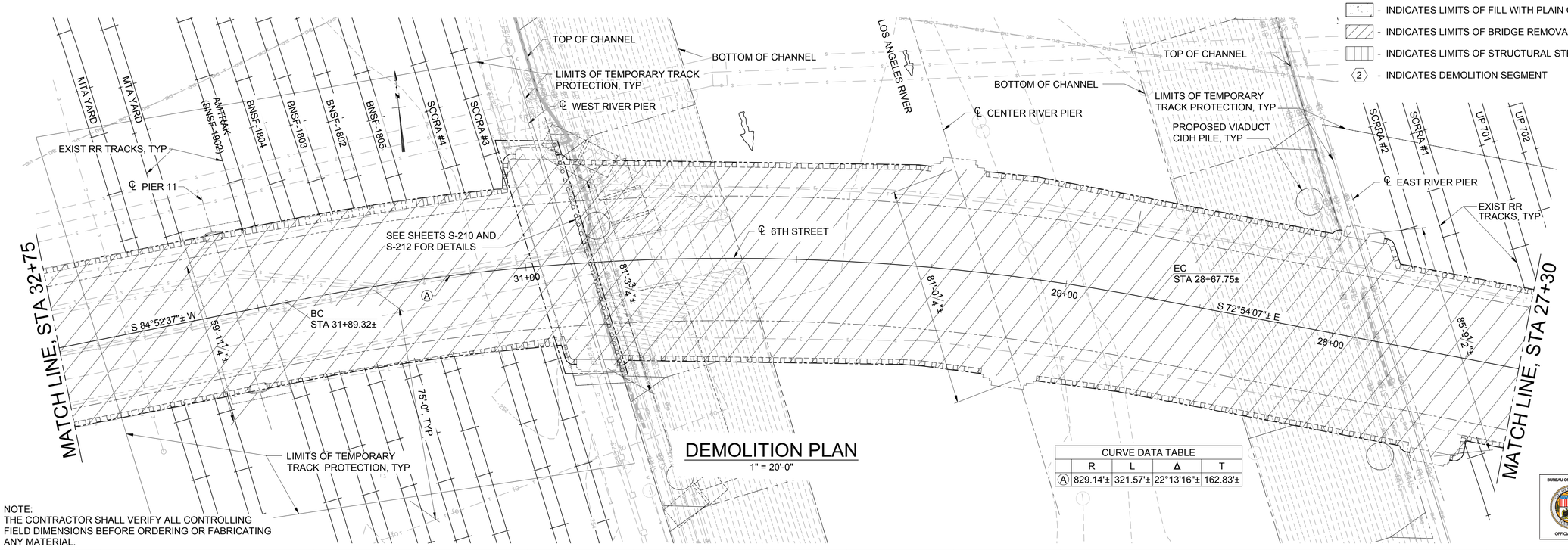


NOTES:
1. ALL DIMENSIONS MEASURED ALONG CENTERLINE OF 6TH STREET.
2. THE NEW RETURN WALL WILL BE SHOWN IN THE VIADUCT DESIGN PACKAGE.

DEVELOPED ELEVATION
1" = 20'-0"

LEGEND

- INDICATES LIMITS OF PIER VOIDS FILLED WITH SLURRY CEMENT BACKFILL MATERIAL
- INDICATES LIMITS OF EXIST RIVER GATEWAY TUNNEL REMOVAL
- INDICATES LIMITS OF FILL WITH PLAIN CONCRETE
- INDICATES LIMITS OF BRIDGE REMOVAL
- INDICATES LIMITS OF STRUCTURAL STEEL ARCH REMOVAL
- (2) INDICATES DEMOLITION SEGMENT



DEMOLITION PLAN
1" = 20'-0"

CURVE DATA TABLE				
	R	L	Δ	T
(A)	829.14'±	321.57'±	22°13'16"±	162.83'±

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

REVISION DATES (DESIGN STAGE ONLY)
A 5/14/15
B 7/8/15

BUREAU OF ENGINEERING
OFFICIAL RECORD

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE	BY:

STRUCTURE NO. 53C-1361

INDEX NO. D-34619

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

PROFESSIONAL ENGINEER — REGISTERED — KANG CHEN — NO. 51395 — EXP. 06-30-2016 — STATE OF CALIFORNIA

GARY LEE MOORE, P.E. CITY ENGINEER

ENGINEER:	KANG CHEN	LIC. NO. 51395	DESIGN GROUP	DATE:
DESIGNED BY:	XIANGYANG FU			
DRAWN BY:	KAI WANG			
CHECKED BY:	KANG CHEN			
APPROVED BY:	ROBERT E. SENNETT IV			

VERTICAL CONTROL: NGVD29, 1985 ADJ
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: DEMOLITION PLAN NO. 3

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION

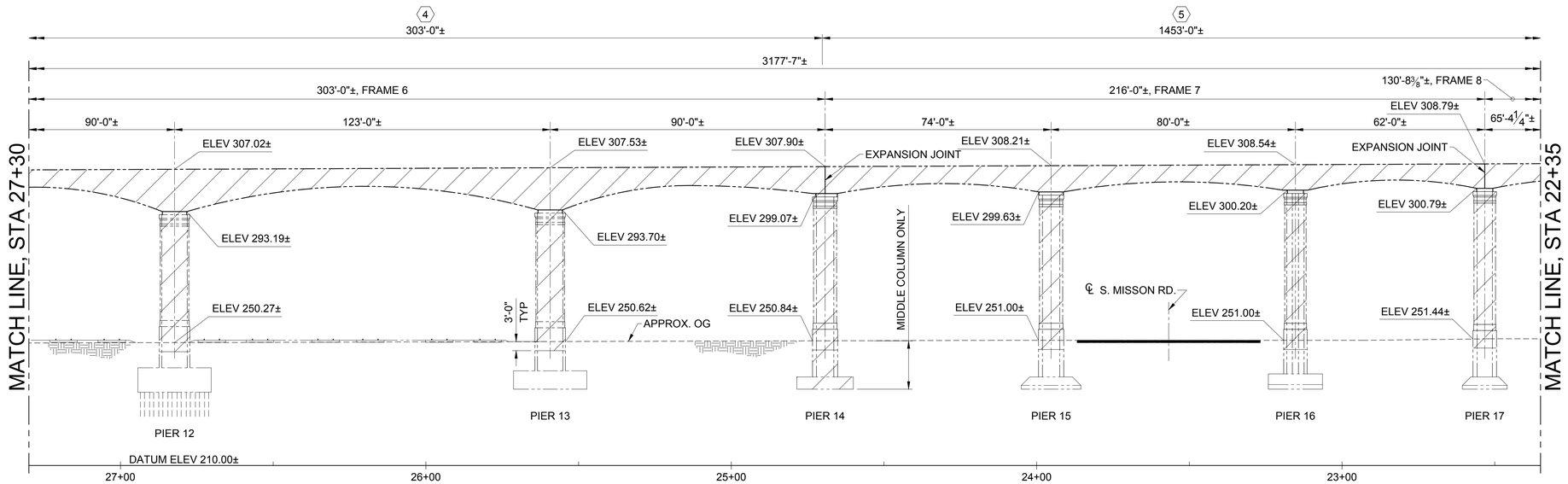
ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

WORK ORDER NO. E700227F

DRAWING NO. S-204

SHEET 26 OF 52 SHEETS

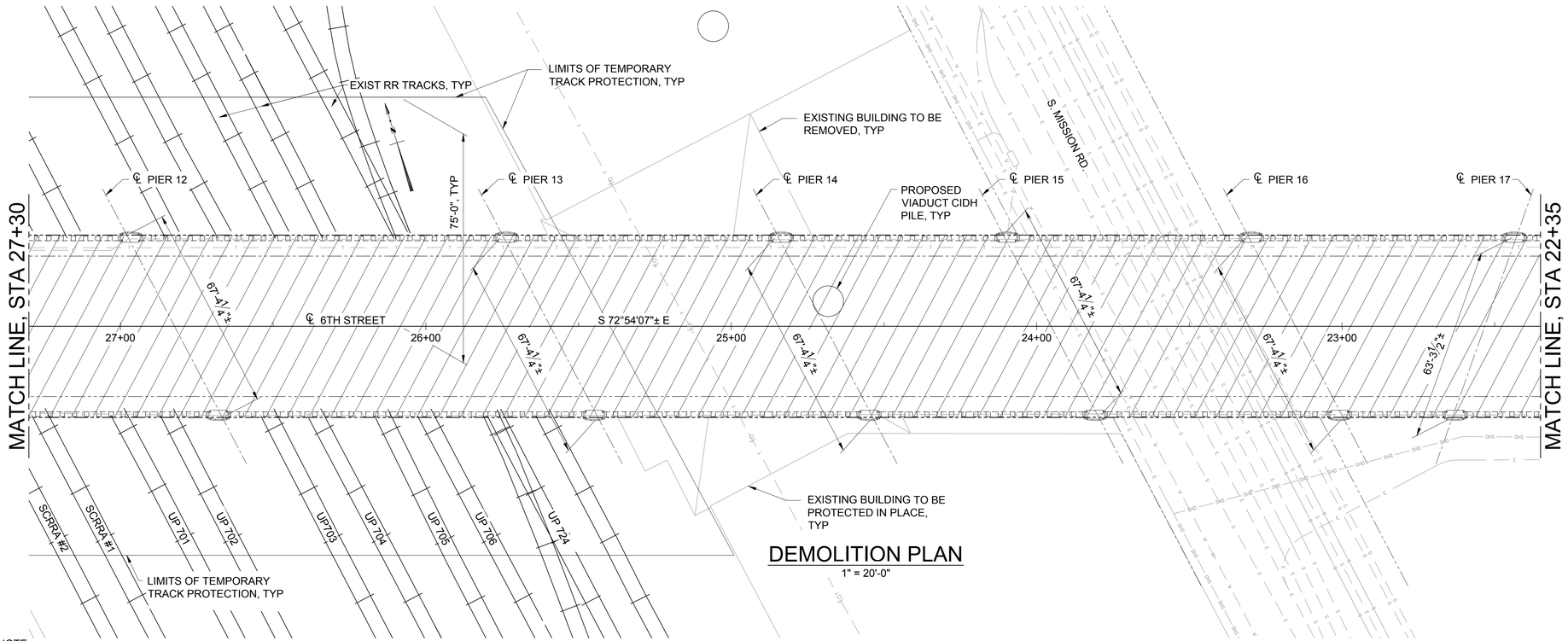
Sheet Version 2.2
12/14/2015



NOTE: ALL DIMENSIONS MEASURED ALONG CENTERLINE OF 6TH STREET.

DEVELOPED ELEVATION

1" = 20'-0"



DEMOLITION PLAN

1" = 20'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SUGGESTED DEMOLITION SEQUENCING AT RAILROADS:

EAST SIDE:

1. INSTALL TEMPORARY TRACK PROTECTION MEASURES TO THE LIMITS SHOWN.
2. PRIOR TO DEMOLITION WORK, COMPLETE TRACK PROTECTION MEASURES AS REQUIRED TO PROTECT TRACKS.
3. REMOVE LIGHT STANDARDS, BARRIER RAIL, AND DECK FROM EAST RIVER PIER TO PIER 13.
4. REMOVE GIRDERS FROM PIER 12 TO PIER 13.
5. REMOVE GIRDERS FROM EAST RIVER PIER TO PIER 12.
6. REMOVE PIER 13.
7. REMOVE PIER 12.
8. REMOVE EAST RIVER PIER (FOLLOWING REMOVAL OF MAIN SPANS OVER CHANNEL).
9. TEMPORARY TRACK PROTECTION MEASURES TO REMAIN IN PLACE DURING CONSTRUCTION OF NEW VIADUCT.
10. REMOVE TEMPORARY TRACK PROTECTION MEASURES AFTER COMPLETION OF NEW VIADUCT CONSTRUCTION.

WEST SIDE:

1. INSTALL TEMPORARY TRACK PROTECTION MEASURES TO THE LIMITS SHOWN.
2. PRIOR TO DEMOLITION WORK, COMPLETE TRACK PROTECTION MEASURES AS REQUIRED TO PROTECT TRACKS.
3. REMOVE LIGHT STANDARDS, BARRIER RAIL, AND DECK FROM PIER 10 TO WEST RIVER PIER.
4. REMOVE GIRDERS FROM PIER 11 TO WEST RIVER PIER.
5. REMOVE GIRDERS FROM PIER 10 TO PIER 11.
6. REMOVE WEST RIVER PIER (FOLLOWING REMOVAL OF MAIN SPANS OVER CHANNEL).
7. REMOVE PIER 11.
8. REMOVE PIER 10.
9. TEMPORARY TRACK PROTECTION MEASURES TO REMAIN IN PLACE DURING CONSTRUCTION OF NEW VIADUCT.
10. REMOVE TEMPORARY TRACK PROTECTION MEASURES AFTER COMPLETION OF NEW VIADUCT CONSTRUCTION.

LEGEND

- INDICATES LIMITS OF BRIDGE REMOVAL
- 4 - INDICATES DEMOLITION SEGMENT

BUREAU OF ENGINEERING
OFFICIAL RECORD

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE	BY:

STRUCTURE NO. 53C-1361

INDEX NO. D-34619

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
KANG CHEN
NO. 51395
EXP. 06-30-2016
STATE OF CALIFORNIA

GARY LEE MOORE, P.E. CITY ENGINEER

	DESIGN GROUP	LIC. NO.	DATE:
ENGINEER:	KANG CHEN	51395	
DESIGNED BY:	XIANGYANG FU		
DRAWN BY:	KAI WANG		
CHECKED BY:	KANG CHEN		
APPROVED BY:	ROBERT E. SENNETT IV		

VERTICAL CONTROL: NGVD29, 1985 ADJ.
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: DEMOLITION PLAN NO. 4

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION

ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

WORK ORDER NO. E700227F

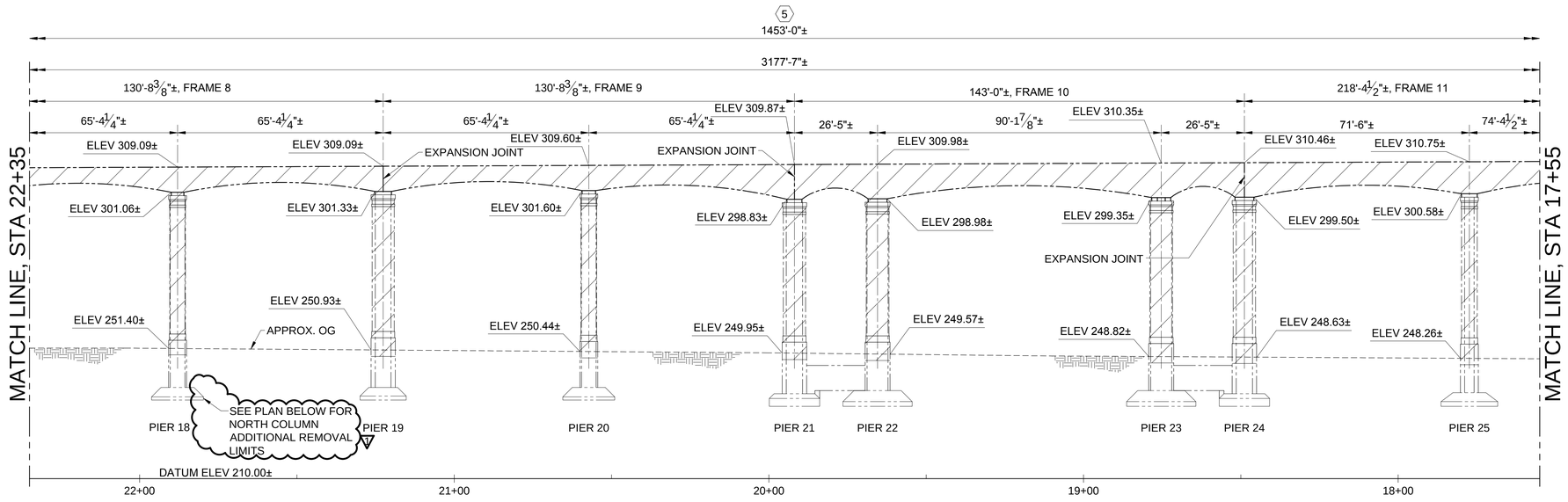
DRAWING NO. S-205

SHEET 27 OF 52 SHEETS

REVISION DATES (DESIGN STAGE ONLY): 5\15 7\6\15

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12/14/2015



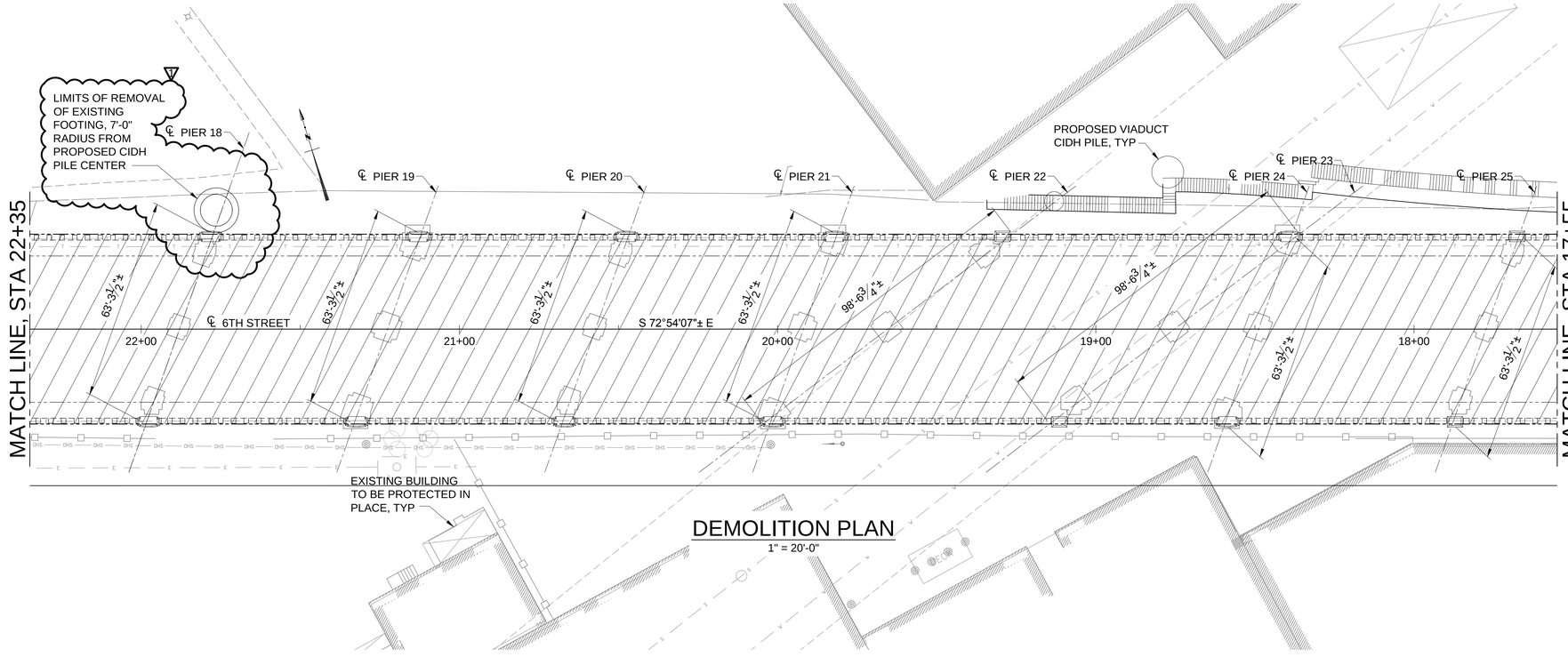
NOTE: ALL DIMENSIONS MEASURED ALONG CENTERLINE OF 6TH STREET.

DEVELOPED ELEVATION

1" = 20'-0"

LEGEND

- INDICATES LIMITS OF BRIDGE REMOVAL
- 5 - INDICATES DEMOLITION SEGMENT



DEMOLITION PLAN

1" = 20'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY): 5/14/15, 7/9/15, 10/23/15

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

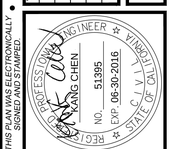
ENGINEERING
CITY OF LOS ANGELES

STRUCTURE NO. 53C-1361

INDEX NO.

NO.	REVISIONS:	DATE	BY:
1	REMOVAL LIMITS CHANGE		

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED



CITY ENGINEER: GARY LEE MOORE, P.E.

		DATE
ENGINEER:	KANG CHEN	
DESIGNED BY:	XIANGYANG FU	
DRAWN BY:	KAI WANG	
CHECKED BY:	KANG CHEN	
APPROVED BY:	ROBERT E. SENNETT IV	

DESIGN GROUP
LIC. NO. 51395

VERTICAL CONTROL: NGVD29, 1985 ADJ
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: DEMOLITION PLAN NO. 5

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION

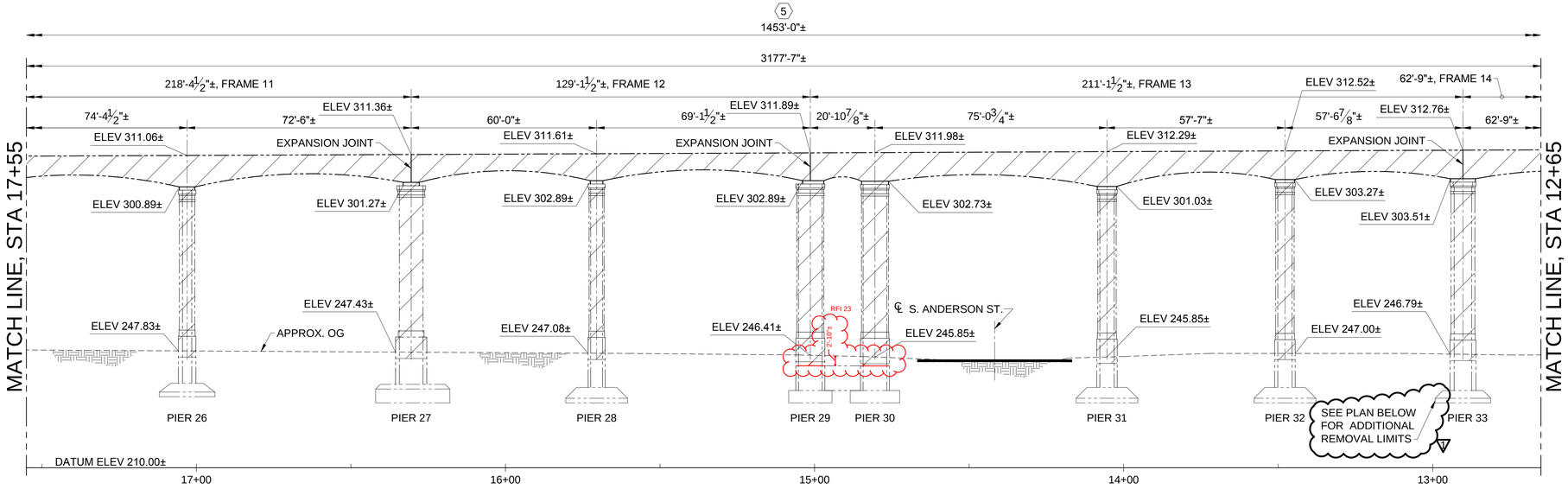
ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

WORK ORDER NO. E700227F

DRAWING NO. S-206

SHEET 28 OF 52 SHEETS

Sheet Version 2.2



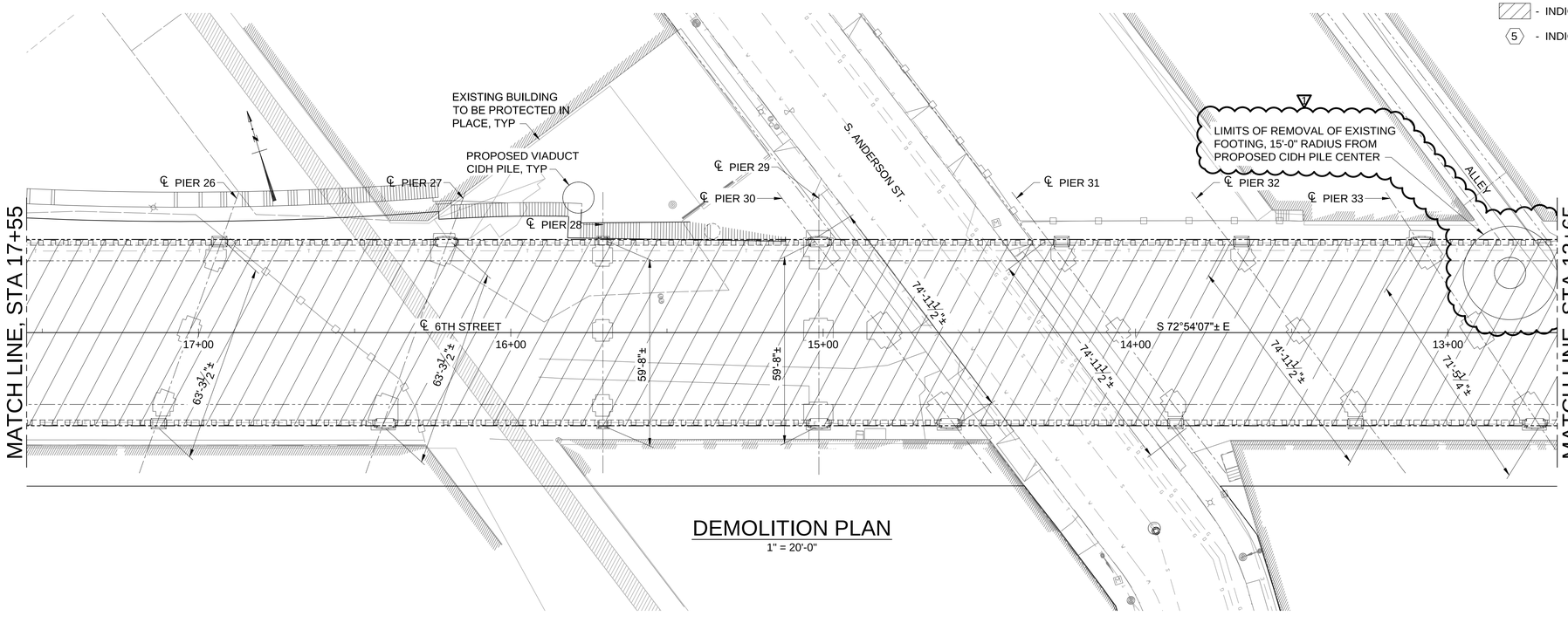
NOTE: ALL DIMENSIONS MEASURED ALONG CENTERLINE OF 6TH STREET.

DEVELOPED ELEVATION

1" = 20'-0"

LEGEND

- INDICATES LIMITS OF BRIDGE REMOVAL
- 5 - INDICATES DEMOLITION SEGMENT



DEMOLITION PLAN

1" = 20'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

GARY LEE MOORE, P.E. CITY ENGINEER

ENGINEER:	KANG CHEN	LIC. NO. 51395
DESIGNED BY:	XIANGYANG FU	
DRAWN BY:	KAI WANG	
CHECKED BY:	KANG CHEN	
APPROVED BY:	ROBERT E. SENNETT IV	

DESIGN GROUP
DATE:

NO.	DATE	BY:	REVISIONS:
1			REMOVAL LIMITS CHANGE

STRUCTURE NO. 53C-1361

INDEX NO.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

PROFESSIONAL ENGINEER — KANG CHEN — NO. 51395 — EXP. 06-30-2016 — STATE OF CALIFORNIA

VERTICAL CONTROL: NGVD29, 1985 ADJ
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: DEMOLITION PLAN NO. 6

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION
6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

ADDRESS:

WORK ORDER NO. E700227F

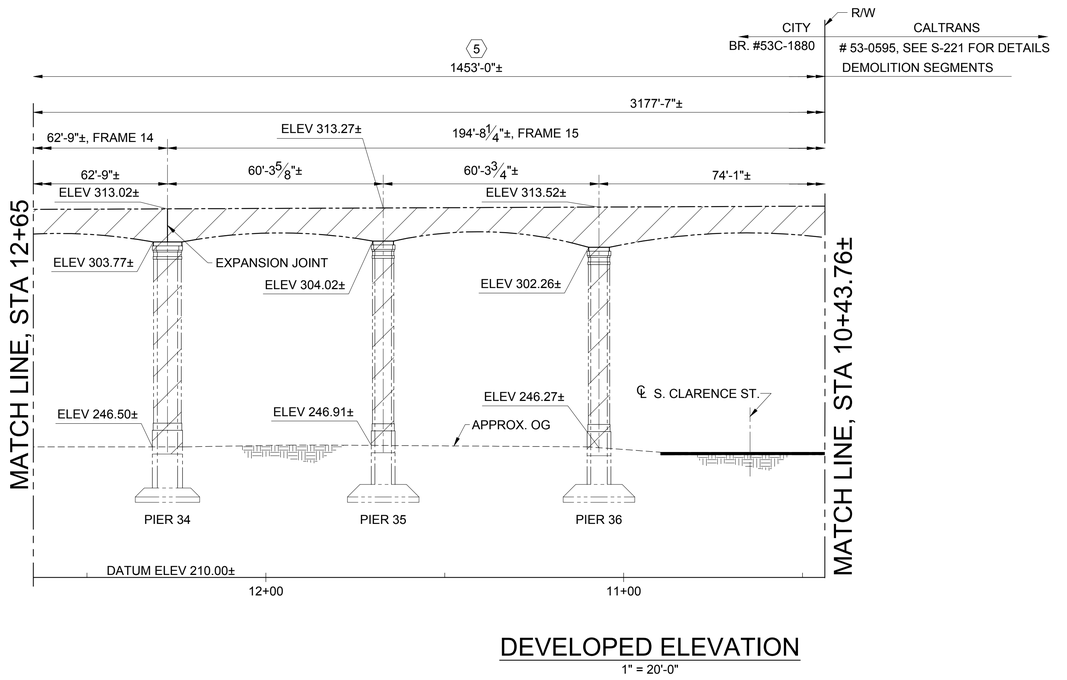
DRAWING NO. S-207

SHEET 29 OF 52 SHEETS

REVISION DATES (DESIGN STAGE ONLY)
5/14/15 7/9/15 10/23/15

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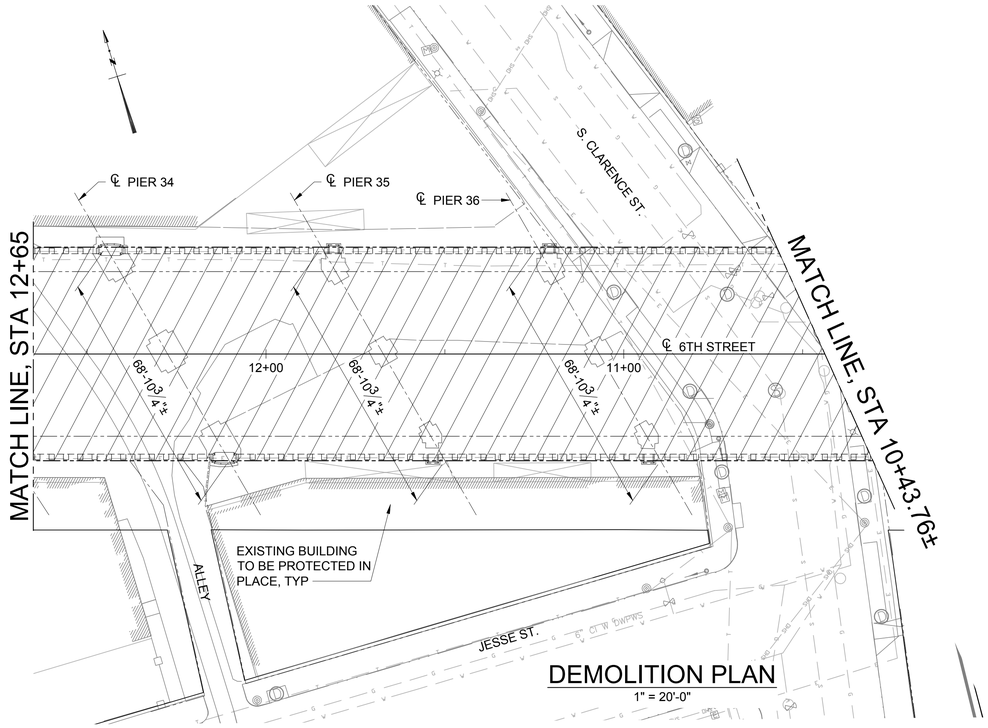


DEVELOPED ELEVATION

1" = 20'-0"

LEGEND

- INDICATES LIMITS OF BRIDGE REMOVAL
- 5 - INDICATES DEMOLITION SEGMENT



DEMOLITION PLAN

1" = 20'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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REVISION DATES (DESIGN STAGE ONLY)
5/14/15
7/6/15

Sheet Version 2.2
12/14/2015

BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

STRUCTURE NO. 53C-1361

INDEX NO. D-34619

NO.	REVISIONS:	DATE:	BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
KANG CHEN
NO. 51395
EXP. 06-30-2016
STATE OF CALIFORNIA

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

CITY ENGINEER
GARY LEE MOORE, P.E.
LIC. NO. 51395
DATE:

DESIGN GROUP	
ENGINEER:	KANG CHEN
DESIGNED BY:	XIANGYANG FU
DRAWN BY:	KAI WANG
CHECKED BY:	KANG CHEN
APPROVED BY:	ROBERT E. SENNETT IV

VERTICAL CONTROL: NGVD29, 1985 ADJ.
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: DEMOLITION PLAN NO. 7

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION

ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

BUREAU OF ENGINEERING
OFFICIAL RECORD

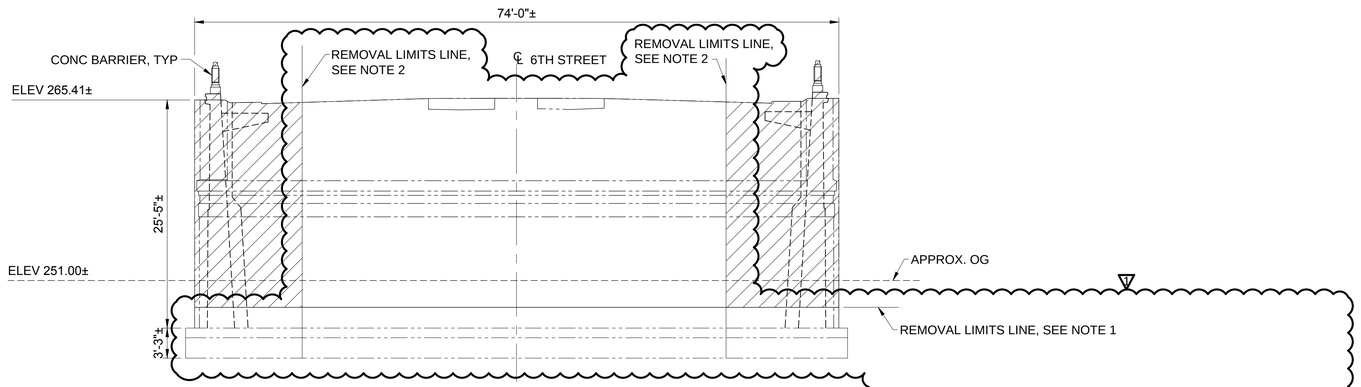
WORK ORDER NO.
E700227F

DRAWING NO.
S-208

SHEET 30 OF 52 SHEETS

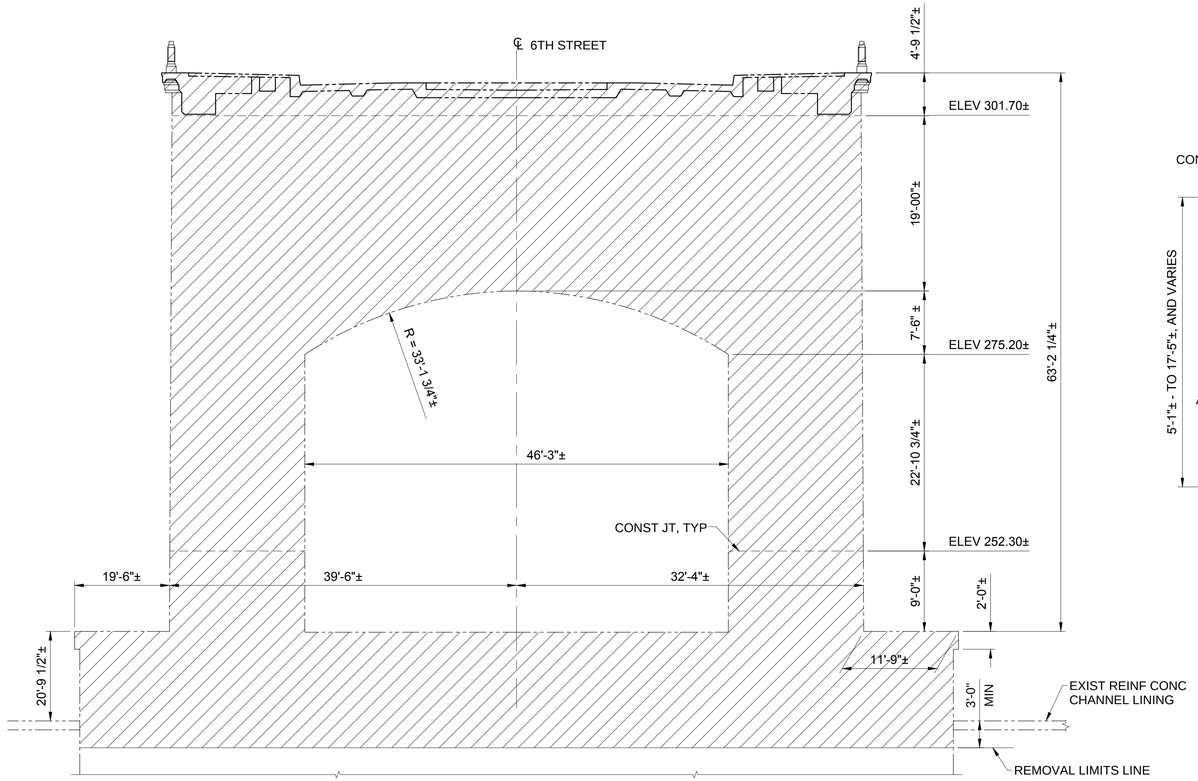
LEGEND

- INDICATES LIMITS OF BRIDGE REMOVAL
- INDICATES LIMITS OF RETAINING WALL AND APPROACH FILL REMOVAL



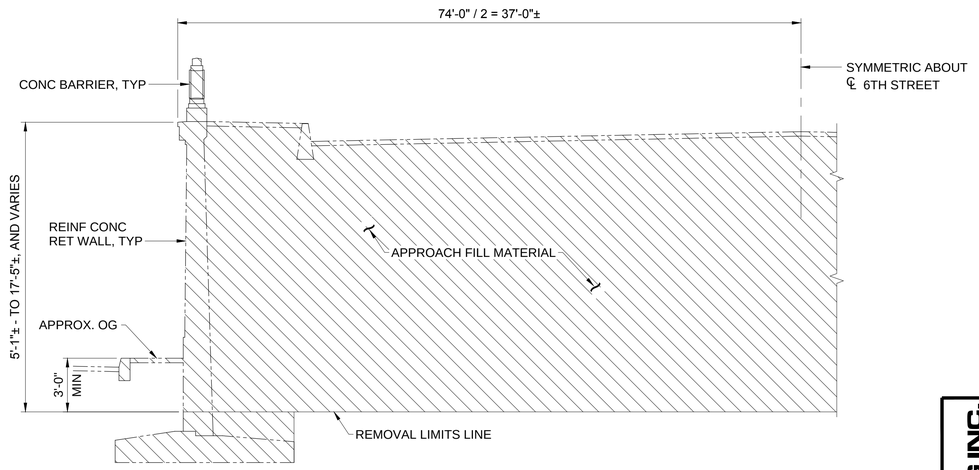
WEST ABUTMENT SECTION
NO SCALE

NOTES:
1. REMOVE EXISTING PORTIONS OF WEST ABUTMENT THAT CONFLICT WITH NEW VIADUCT TO 3'-0" BELOW NEW VIADUCT BOTTOM OF FOOTING ELEVATIONS.
2. REMOVE EXISTING PORTIONS OF WEST ABUTMENT TO 3'-0" CLEAR FROM PROPOSED WALL FOOTING.



CENTER RIVER PIER
NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



PART TYPICAL SECTION - WEST APPROACH ABUTMENT
NO SCALE

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)
51of45 10/23/15
39of45 10/23/15

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
ENGINEERING — CITY OF LOS ANGELES

NO.	REVISIONS:	DATE:	BY:
1	REMOVAL LIMITS CHANGE		

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

GARY LEE MOORE, P.E. — CITY ENGINEER — DATE:
DESIGN GROUP — LIC. NO. 51395

ENGINEER:	KANG CHEN
DESIGNED BY:	XIANGYANG FU
DRAWN BY:	KAI WANG
CHECKED BY:	KANG CHEN
APPROVED BY:	ROBERT E. SENNETT IV

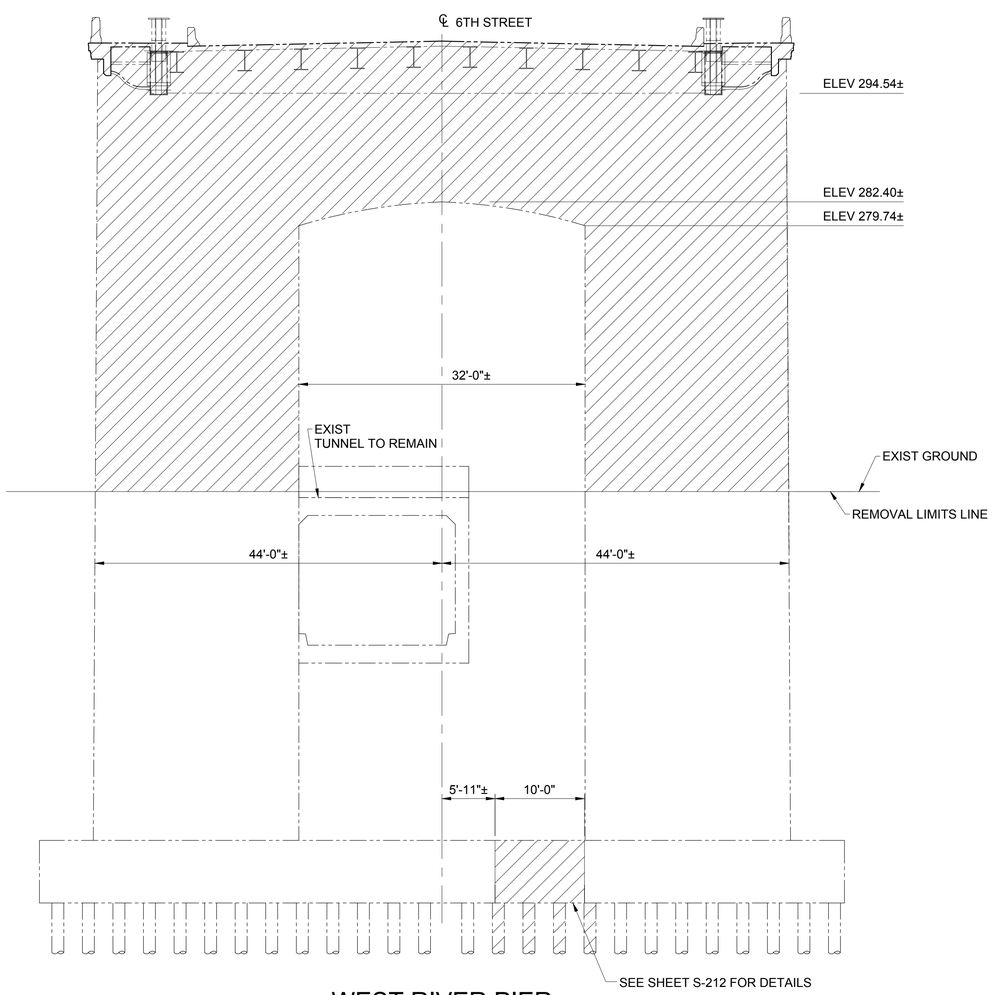
VERTICAL CONTROL: NGVD29, 1985 ADJ.
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: TYPICAL SECTIONS NO. 1
PROJECT: SIXTH STREET VIADUCT REPLACEMENT EXISTING BRIDGE DEMOLITION
ADDRESS: 6TH STREET (WHITTIER BLVD) LOS ANGELES, CA

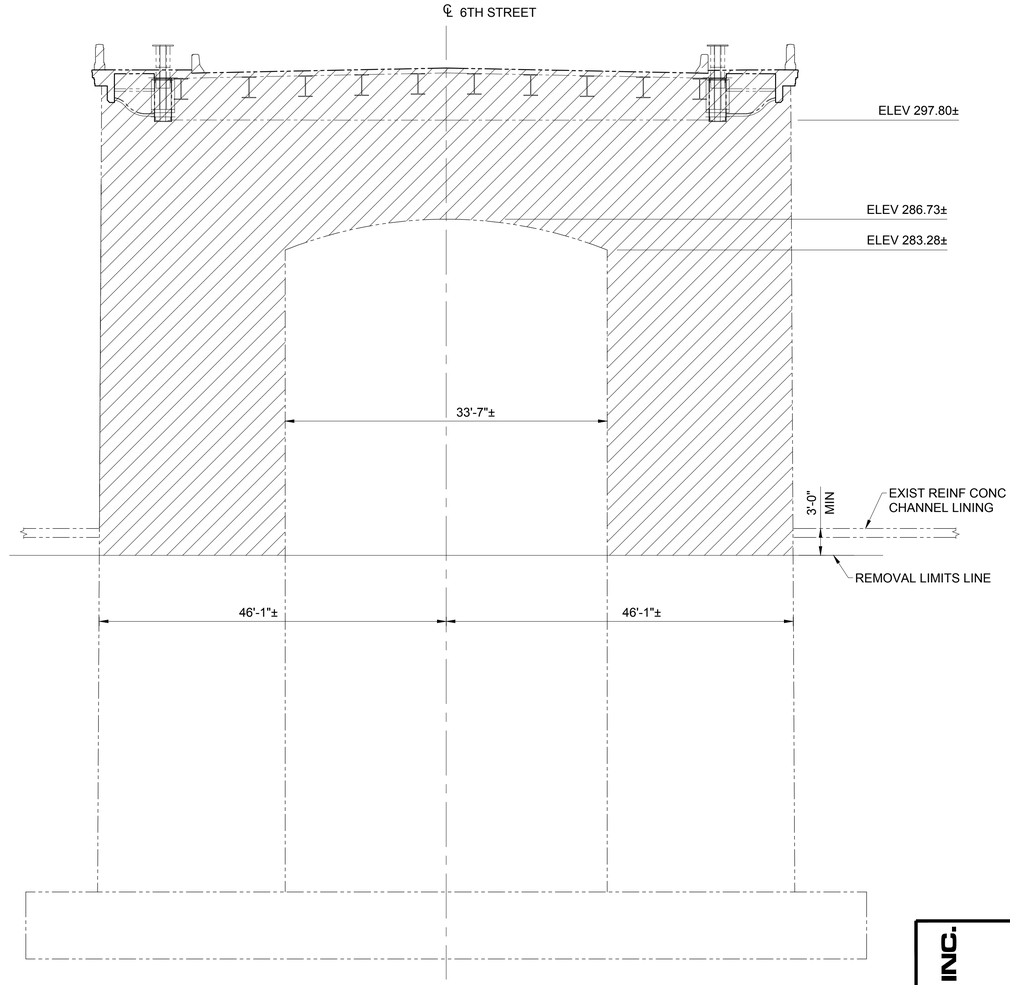
STRUCTURE NO. 53C-1361
INDEX NO.

WORK ORDER NO. E700227F
DRAWING NO. S-209
SHEET 31 OF 52 SHEETS

Sheet Version 2.2



WEST RIVER PIER
NO SCALE



EAST RIVER PIER
NO SCALE

LEGEND

▨ - INDICATES LIMITS OF BRIDGE REMOVAL

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY): 5/1/15 | 7/6/15

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

BUREAU OF ENGINEERING
OFFICIAL RECORD

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE:	BY:

STRUCTURE NO. 53C-1361

INDEX NO. D-34619

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER KANG CHEN NO. 51395 EXP. 06-30-2016 STATE OF CALIFORNIA

GARY LEE MOORE, P.E. CITY ENGINEER DATE:
LIC. NO. 51395

DESIGN GROUP	
ENGINEER:	KANG CHEN
DESIGNED BY:	XIANGYANG FU
DRAWN BY:	KAI WANG
CHECKED BY:	KANG CHEN
APPROVED BY:	ROBERT E. SENNETT IV

VERTICAL CONTROL: NGVD29, 1985 ADJ.
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: TYPICAL SECTIONS NO. 2

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION

ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

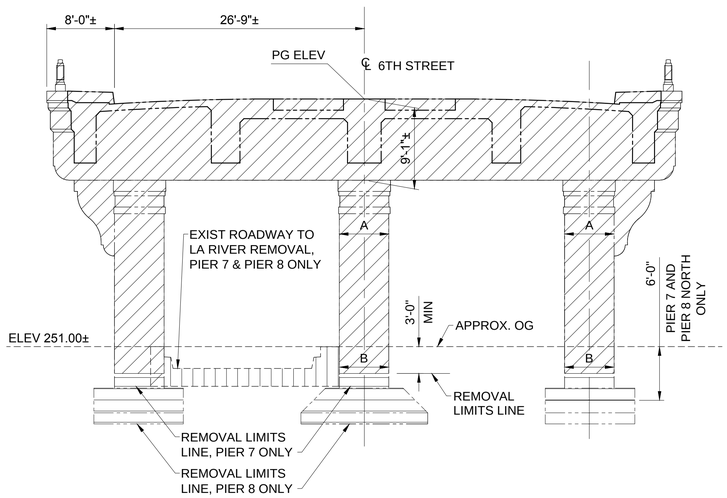
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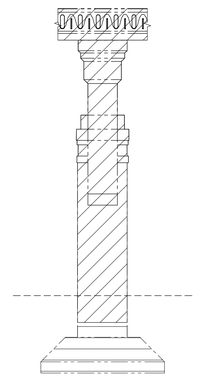
SHEET 32 OF 52 SHEETS

Sheet Version 2.2
12/14/2015

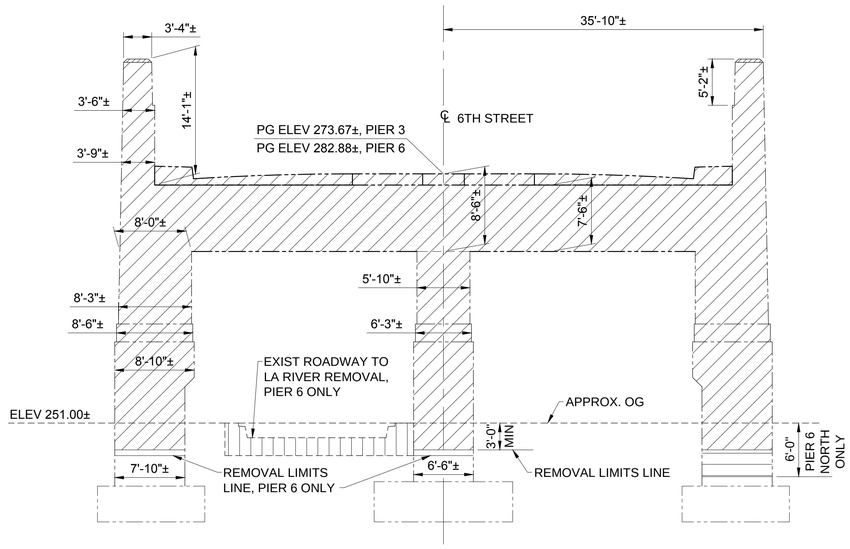
PIER NO.	PG ELEV	DIM A	DIM B
1	268.27±	5'-0"±	5'-0"±
2	270.97±	5'-0"±	5'-0"±
7	285.73±	5'-6"±	6'-6"±
8	288.57±	5'-6"±	6'-6"±



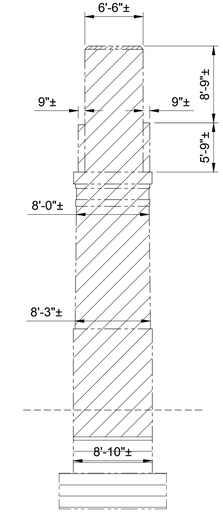
TYPICAL SECTION - PIER 1, 2, 7 & 8
NO SCALE



SIDE ELEVATION
NO SCALE

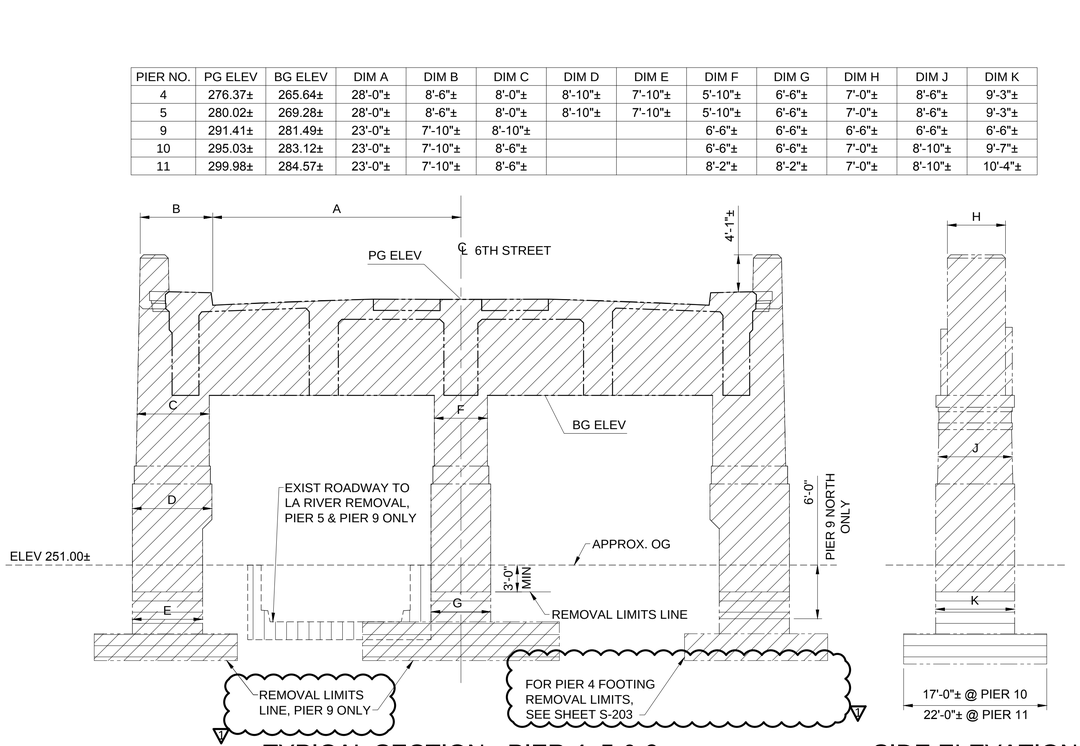


TYPICAL SECTION - PIER 3 & 6
NO SCALE



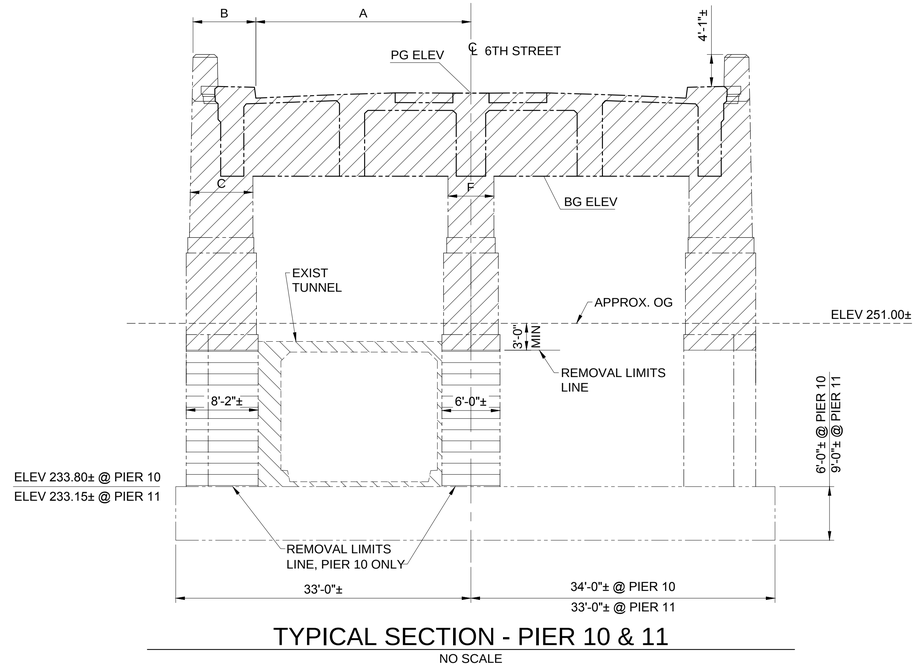
SIDE ELEVATION
NO SCALE

PIER NO.	PG ELEV	BG ELEV	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	DIM H	DIM J	DIM K
4	276.37±	265.64±	28'-0"±	8'-6"±	8'-0"±	8'-10"±	7'-10"±	5'-10"±	6'-6"±	7'-0"±	8'-6"±	9'-3"±
5	280.02±	269.28±	28'-0"±	8'-6"±	8'-0"±	8'-10"±	7'-10"±	5'-10"±	6'-6"±	7'-0"±	8'-6"±	9'-3"±
9	291.41±	281.49±	23'-0"±	7'-10"±	8'-10"±			6'-6"±	6'-6"±	6'-6"±	6'-6"±	6'-6"±
10	295.03±	283.12±	23'-0"±	7'-10"±	8'-6"±			6'-6"±	6'-6"±	7'-0"±	8'-10"±	9'-7"±
11	299.98±	284.57±	23'-0"±	7'-10"±	8'-6"±			8'-2"±	8'-2"±	7'-0"±	8'-10"±	10'-4"±



TYPICAL SECTION - PIER 4, 5 & 9
NO SCALE

SIDE ELEVATION
NO SCALE



TYPICAL SECTION - PIER 10 & 11
NO SCALE

LEGEND

- INDICATES LIMITS OF EXIST RIVER GATEWAY TUNNEL REMOVAL
- INDICATES LIMITS OF BRIDGE REMOVAL
- INDICATES LIMITS OF EXIST U-WALL AND ROADWAY TO LA RIVER REMOVAL
- INDICATES LIMITS OF ADDITIONAL BRIDGE REMOVAL FOR PIER 6, 7, 8, 9 AND 10

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES:
(DESIGN STAGE ONLY)
51415
10/23/15

Sheet Version 2.2

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE:	BY:
1	REMOVAL LIMITS CHANGE		

STRUCTURE NO.
53C-1361

INDEX NO.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER
KANG CHEN
NO. 51395
EXP. 06-30-2016
STATE OF CALIFORNIA

CITY ENGINEER
GARY LEE MOORE, P.E.
DATE:
LIC. NO. 51395

DESIGN GROUP	
ENGINEER:	KANG CHEN
DESIGNED BY:	XIANGYANG FU
DRAWN BY:	KAI WANG
CHECKED BY:	KANG CHEN
APPROVED BY:	ROBERT E. SENNETT IV

VERTICAL CONTROL:	NGVD29, 1985 ADJ.
HORIZONTAL CONTROL:	NAD83, EPOCH 1991.5

SHEET TITLE: TYPICAL SECTIONS NO. 3

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION

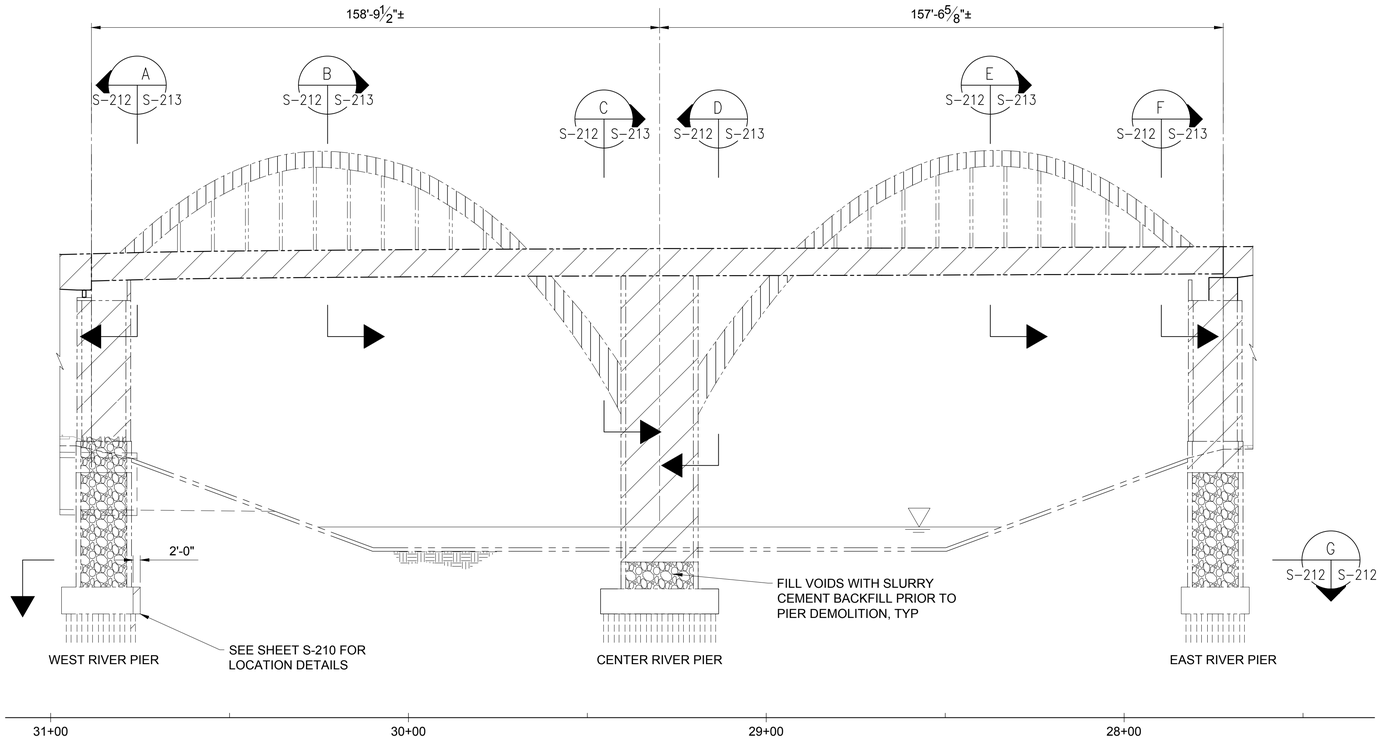
ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

WORK ORDER NO.
E700227F

DRAWING NO.
S-211

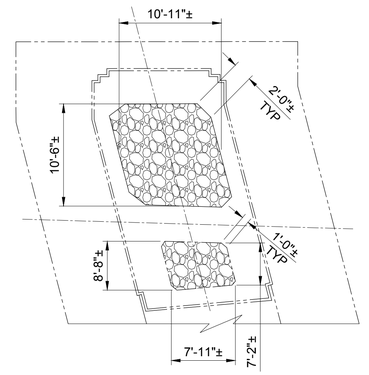
SHEET 33 OF 52 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

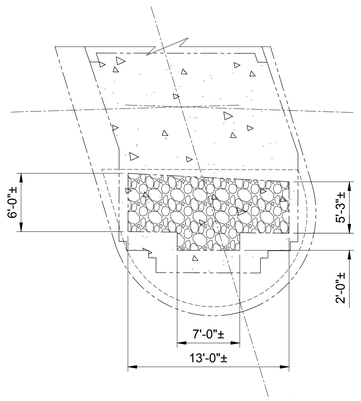


NOTE:
ALL DIMENSIONS MEASURED ALONG CENTERLINE OF 6TH STREET.

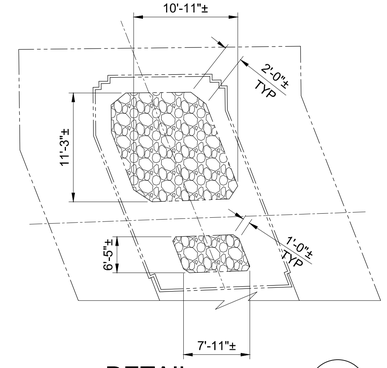
DEVELOPED ELEVATION
NO SCALE



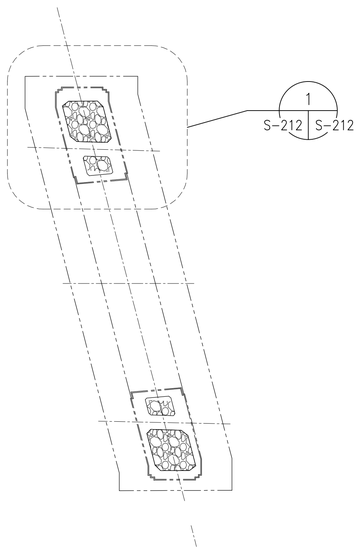
DETAIL
NO SCALE — 1 S-212 S-212

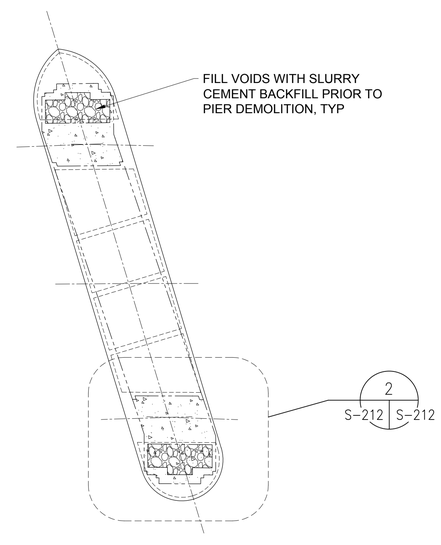


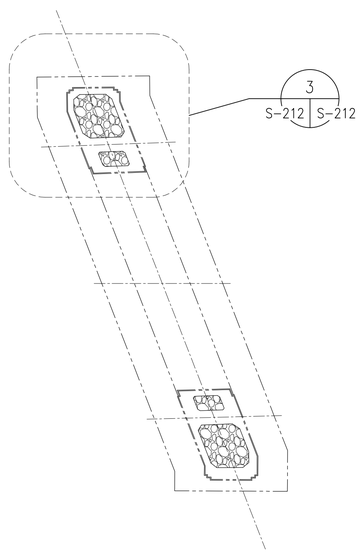
DETAIL
NO SCALE — 2 S-212 S-212



DETAIL
NO SCALE — 3 S-212 S-212







SECTION
NO SCALE — G S-212 S-212

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND

- INDICATES LIMITS OF PIER VOIDS FILLED WITH SLURRY CEMENT BACKFILL MATERIAL
- INDICATES LIMITS OF BRIDGE REMOVAL
- INDICATES LIMITS OF STRUCTURAL STEEL ARCH REMOVAL
- INDICATES LIMITS OF FILL WITH PLAIN CONCRETE

REVISION DATES (DESIGN STAGE ONLY): 5/4/15 7/6/15

Sheet Version 2.2
12/14/2015

BUREAU OF ENGINEERING • DEPARTMENT OF PUBLIC WORKS • CITY OF LOS ANGELES

ENGINEERING — CITY OF LOS ANGELES

NO.	REVISIONS:	DATE	BY:

STRUCTURE NO. 53C-1361

INDEX NO. D-34619

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER — KANG CHEN — NO. 51395 — EXP. 06-30-2016 — STATE OF CALIFORNIA

GARY LEE MOORE, P.E. — CITY ENGINEER — DATE:
LIC. NO. 51395

DESIGN GROUP	
ENGINEER:	KANG CHEN
DESIGNED BY:	XIANGYANG FU
DRAWN BY:	KAI WANG
CHECKED BY:	KANG CHEN
APPROVED BY:	ROBERT E. SENNETT IV

BUREAU OF ENGINEERING — OFFICIAL RECORD

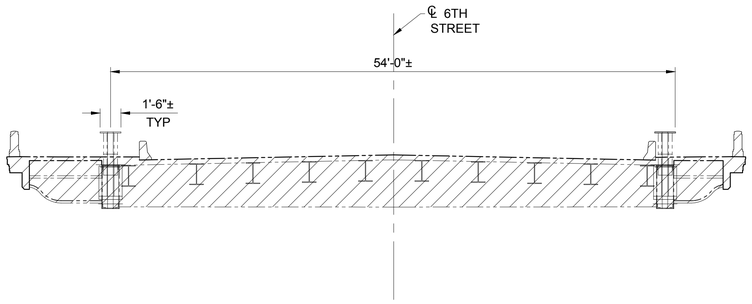
VERTICAL CONTROL:	NGVD29, 1985 ADJ.
HORIZONTAL CONTROL:	NAD83, EPOCH 1991.5
SHEET TITLE:	TYPICAL SECTIONS NO. 4
PROJECT:	SIXTH STREET VIADUCT REPLACEMENT EXISTING BRIDGE DEMOLITION
ADDRESS:	6TH STREET (WHITTIER BLVD) LOS ANGELES, CA

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

WORK ORDER NO. E700227F

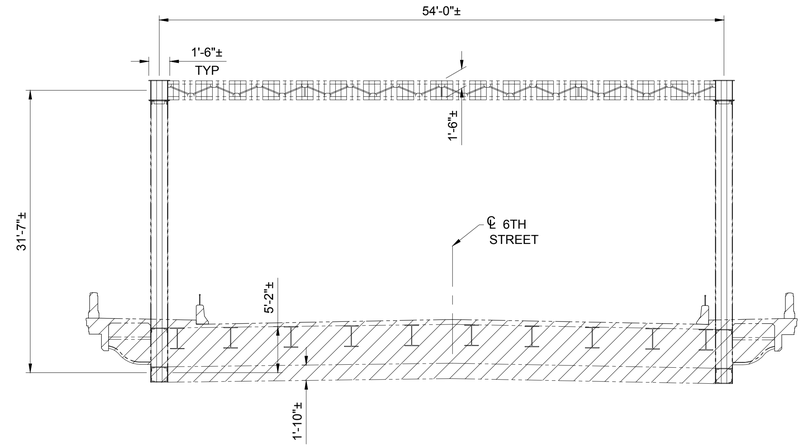
DRAWING NO. S-212

SHEET 34 OF 52 SHEETS



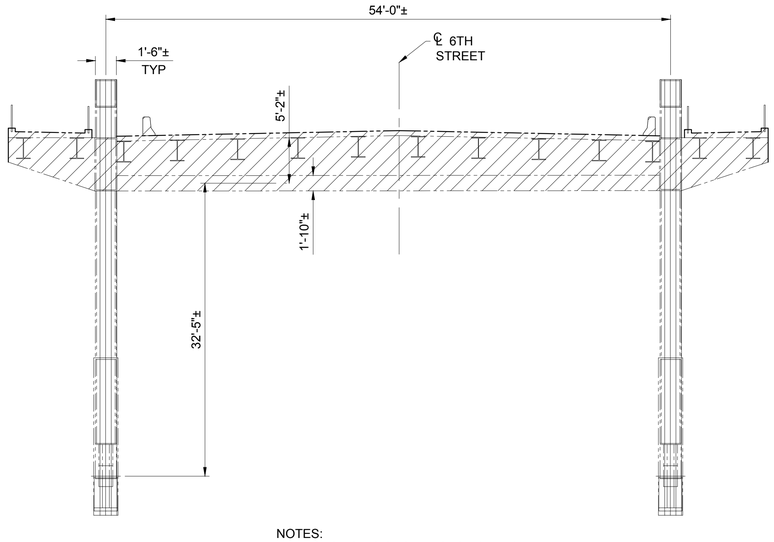
NOTES:
1. SECTION A SHOWN, SECTION F SIMILAR.
2. PIER NOT SHOWN FOR CLARITY.

SECTION A
NO SCALE
S-212 | S-213



NOTE:
SECTION B SHOWN, SECTION E SIMILAR.

SECTION B
NO SCALE
S-212 | S-213



NOTES:
1. SECTION C SHOWN, SECTION D SIMILAR.
2. PIER NOT SHOWN FOR CLARITY.

SECTION C
NO SCALE
S-212 | S-213

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND

- INDICATES LIMITS OF STRUCTURAL STEEL ARCH REMOVAL
- INDICATES LIMITS OF BRIDGE REMOVAL

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)
5/4/15
7/6/15

Sheet Version 2.2
12/14/2015

BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

STRUCTURE NO. 53C-1361
INDEX NO. D-34619

NO.	REVISIONS:	DATE	BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER KANG CHEN NO. 51395 EXP. 06-30-2016 STATE OF CALIFORNIA

BUREAU OF PUBLIC WORKS
CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GARY LEE MOORE, P.E. CITY ENGINEER
DATE:
LIC. NO. 51395

ENGINEER:	KANG CHEN	DESIGN GROUP
DESIGNED BY:	XIANGYANG FU	
DRAWN BY:	KAI WANG	
CHECKED BY:	KANG CHEN	
APPROVED BY:	ROBERT E. SENNETT IV	

SHEET TITLE: TYPICAL SECTIONS NO. 5
PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION
ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

VERTICAL CONTROL: NGVD29, 1985 ADJ.
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

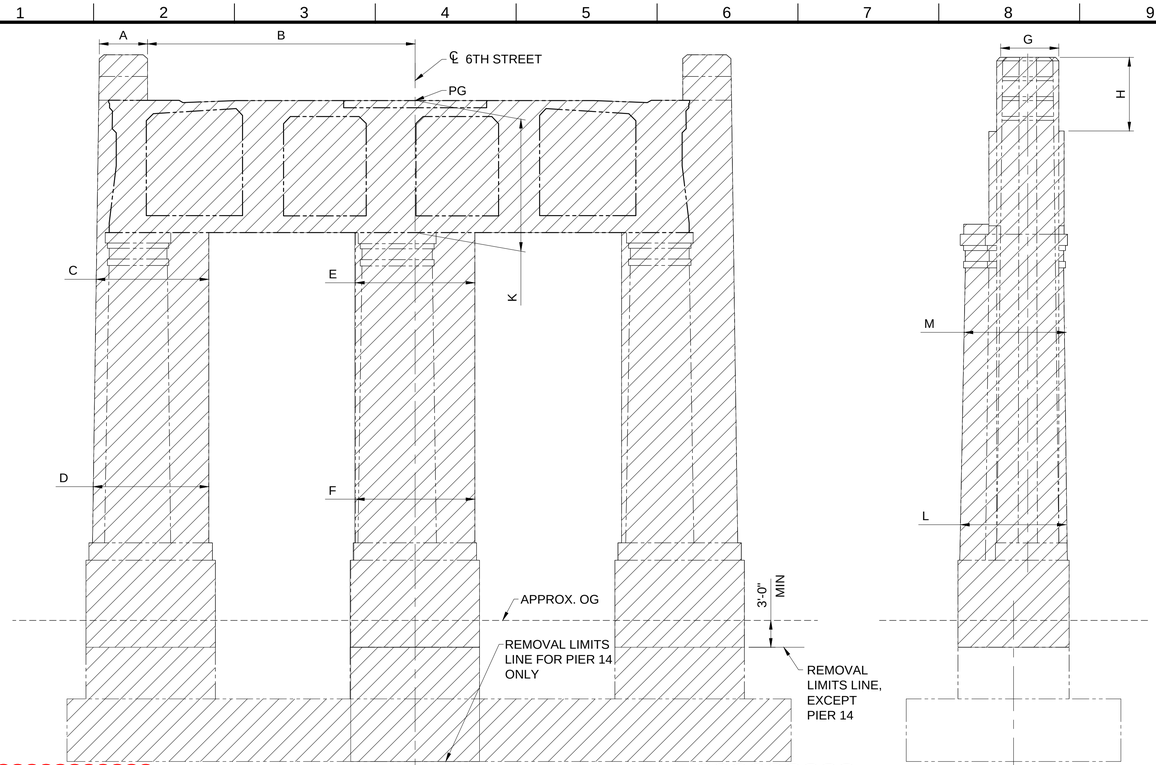
WORK ORDER NO.
E700227F

DRAWING NO.
S-213

SHEET 35 OF 52 SHEETS

BUREAU OF ENGINEERING
OFFICIAL RECORD

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000



NOTE:
FOR PIER 29 & 30
REMOVAL LIMITS, SEE
SHEET S-207

RFI 23

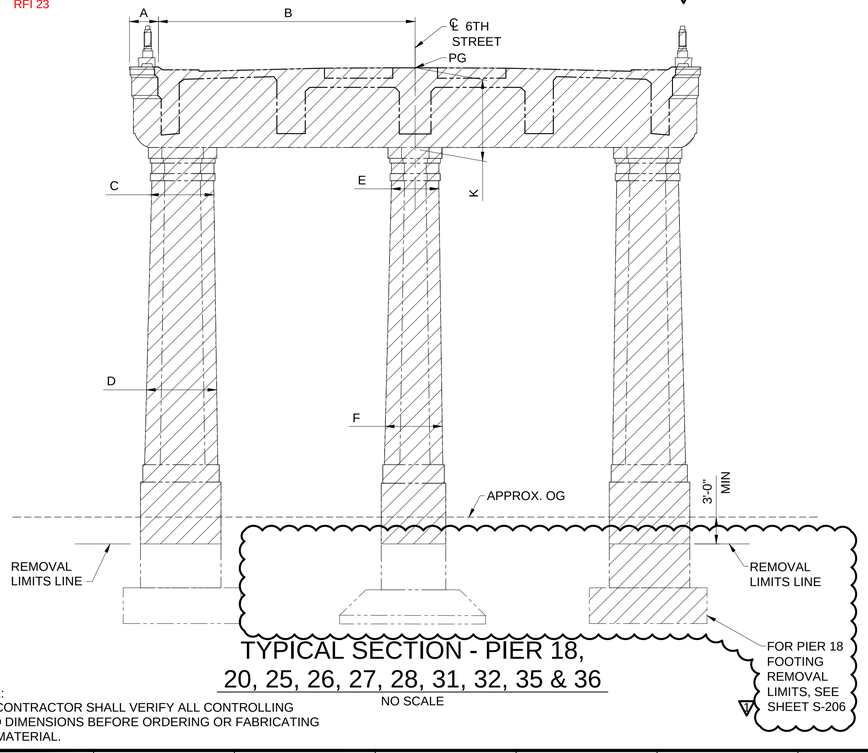
TYPICAL SECTION - PIER 12, 13, 14, 15, 17, 19, 21, 22, 23, 24, 29, 30, 33 & 34

NO SCALE

NOTE:
FOR PIER 33 FOOTING
REMOVAL LIMITS, SEE
SHEET S-207

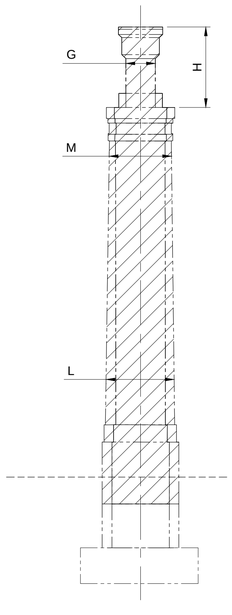
SIDE ELEVATION

NO SCALE



TYPICAL SECTION - PIER 18, 20, 25, 26, 27, 28, 31, 32, 35 & 36

NO SCALE



SIDE ELEVATION

NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PIER NO.	PG ELEV	OG ELEV	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	DIM H	DIM K	DIM L	DIM M
12	307.02±	250.27±	4'-0"±	27'-0"±	9'-4"±	10'-11"±	10'-0"±	10'-9"±	7'-0"±	5'-1"±	14'-0"±	10'-0"±	10'-0"±
13	307.53±	250.62±	4'-0"±	27'-0"±	9'-4"±	10'-11"±	10'-0"±	10'-9"±	7'-0"±	5'-1"±	14'-0"±	10'-0"±	10'-0"±
14	307.90±	250.84±	3'-4"±	31'-0"±	10'-2"±	10'-2"±	8'-8"±	8'-8"±	7'-0"±	4'-0"±	7'-4"±	8'-3"±	8'-3"±
15	308.21±	251.00±	3'-4"±	27'-6"±	7'-0"±	7'-0"±	7'-0"±	7'-0"±	7'-0"±	4'-0"±	10'-3"±	8'-0"±	8'-0"±
17	308.79±	251.44±	3'-4"±	27'-6"±	10'-6"±	10'-6"±	8'-0"±	8'-0"±	7'-0"±	4'-0"±	9'-0"±	7'-0"±	7'-0"±
18	309.09±	251.40±	2'-4"±	25'-6"±	6'-9"±	8'-9"±	6'-2"±	7'-0"±	2'-6"±	9'-0"±	9'-0"±	6'-6"±	5'-8"±
19	309.09±	250.93±	3'-4"±	27'-6"±	10'-6"±	10'-6"±	8'-0"±	8'-0"±	7'-0"±	4'-0"±	9'-0"±	7'-0"±	7'-0"±
20	309.60±	250.44±	2'-4"±	25'-6"±	6'-9"±	8'-9"±	6'-2"±	7'-0"±	2'-6"±	9'-0"±	9'-0"±	6'-6"±	5'-8"±
21	309.87±	249.95±	3'-4"±	28'-10"±	9'-0"±	9'-0"±	8'-2"±	8'-2"±	7'-0"±	4'-0"±	13'-1"±	7'-4"±	7'-4"±
22	309.98±	249.57±	3'-4"±	27'-0"±	8'-4"±	9'-0"±	7'-0"±	7'-0"±	7'-0"±	4'-0"±	10'-0"±	7'-0"±	7'-0"±
23	310.35±	248.82±	3'-4"±	27'-0"±	8'-4"±	8'-4"±	7'-0"±	7'-0"±	7'-0"±	4'-0"±	10'-0"±	7'-0"±	7'-0"±
24	310.46±	248.63±	3'-4"±	28'-10"±	9'-0"±	8'-4"±	8'-2"±	8'-2"±	7'-0"±	4'-0"±	13'-1"±	7'-4"±	7'-4"±
25	310.75±	248.26±	2'-10"±	25'-6"±	7'-8"±	7'-8"±	7'-0"±	7'-0"±	4'-10"±	11'-6"±	11'-6"±	6'-0"±	6'-0"±
26	311.06±	247.83±	2'-10"±	25'-6"±	7'-8"±	7'-8"±	7'-0"±	7'-0"±	4'-10"±	11'-6"±	11'-6"±	6'-0"±	6'-0"±
27	311.36±	247.43±	2'-10"±	27'-0"±	6'-0"±	6'-11"±	6'-0"±	6'-11"±	2'-6"±	11'-1"±	11'-4"±	6'-5"±	5'-6"±
28	311.61±	247.08±	2'-10"±	27'-0"±	6'-0"±	6'-11"±	6'-0"±	6'-11"±	2'-6"±	11'-1"±	11'-4"±	6'-5"±	5'-6"±
29	311.89±	246.41±	3'-4"±	29'-3"±	12'-1"±	12'-1"±	7'-8"±	7'-8"±	7'-0"±	4'-0"±	11'-0"±	9'-5"±	9'-5"±
30	311.98±	245.85±	3'-4"±	29'-3"±	10'-0"±	10'-0"±	10'-9"±	10'-9"±	7'-0"±	4'-0"±	11'-3"±	9'-5"±	9'-5"±
31	312.29±	245.85±	2'-4"±	32'-9"±	8'-6"±	10'-6"±	5'-6"±	7'-2"±	2'-6"±	13'-5"±	11'-0"±	6'-7"±	5'-0"±
32	312.52±	247.00±	2'-4"±	32'-9"±	8'-6"±	10'-6"±	5'-6"±	7'-2"±	2'-6"±	13'-5"±	9'-0"±	6'-7"±	5'-0"±
33	312.76±	246.79±	4'-0"±	32'-10"±	11'-8"±	11'-8"±	11'-3"±	11'-3"±	7'-0"±	4'-0"±	10'-2"±	8'-5"±	8'-5"±
34	313.02±	246.50±	4'-0"±	32'-10"±	11'-8"±	11'-8"±	11'-3"±	11'-3"±	7'-0"±	4'-0"±	10'-2"±	8'-5"±	8'-5"±
35	313.27±	246.91±	2'-4"±	32'-9"±	8'-6"±	10'-6"±	5'-6"±	7'-2"±	2'-6"±	13'-5"±	9'-0"±	6'-7"±	5'-0"±
36	313.52±	246.27±	2'-4"±	32'-9"±	8'-6"±	10'-6"±	5'-6"±	7'-2"±	2'-6"±	13'-5"±	11'-0"±	6'-7"±	5'-0"±

LEGEND

▨ - INDICATES LIMITS OF BRIDGE REMOVAL

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)
5/1/15 | 7/9/15 | 10/23/15

Sheet Version 2.2

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE:	BY:
1	REMOVAL LIMITS CHANGE		

STRUCTURE NO. 53C-1361

INDEX NO.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER KANG CHEN NO. 51395 EXP. 06-30-2016 STATE OF CALIFORNIA

GARY LEE MOORE, P.E. CITY ENGINEER

		DATE:
ENGINEER:	KANG CHEN	LIC. NO. 51395
DESIGNED BY:	XIANGYANG FU	
DRAWN BY:	KAI WANG	
CHECKED BY:	KANG CHEN	
APPROVED BY:	ROBERT E. SENNETT IV	

VERTICAL CONTROL: NGVD29, 1985 ADJ.
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: TYPICAL SECTION NO. 6

PROJECT: SIXTH STREET VIADUCT REPLACEMENT EXISTING BRIDGE DEMOLITION

ADDRESS: 6TH STREET (WHITTIER BLVD) LOS ANGELES, CA

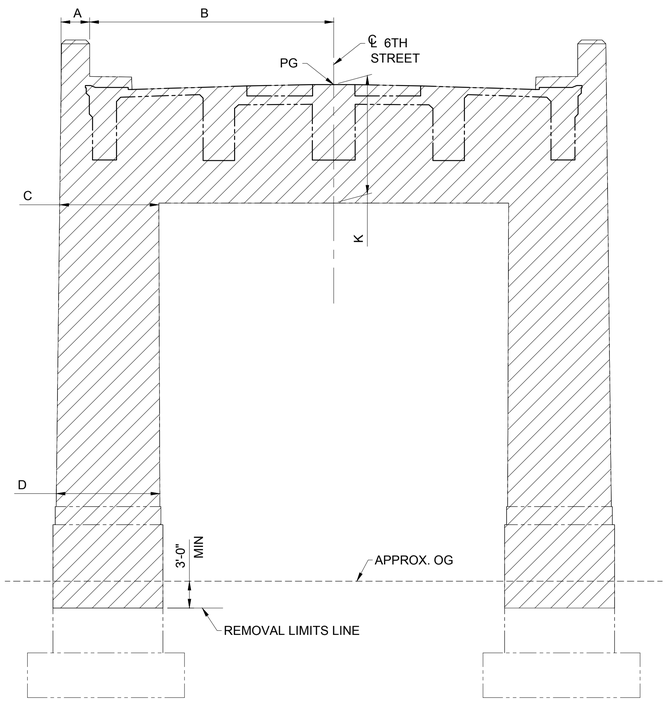
WORK ORDER NO. E700227F

DRAWING NO. S-214

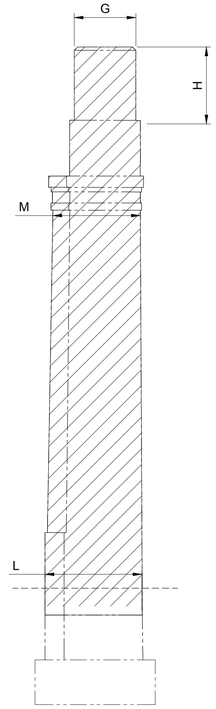
SHEET 36 OF 52 SHEETS

LEGEND

▨ - INDICATES LIMITS OF BRIDGE REMOVAL



TYPICAL SECTION - PIER 16
NO SCALE



SIDE ELEVATION
NO SCALE

PIER NO.	PG ELEV	OG ELEV	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	DIM H	DIM K	DIM L	DIM M
16	308.54±	251.00±	3'-4"±	27'-6"±	10'-7"±	11'-2"±	-	-	7'-0"±	4'-0"±	13'-2"±	8'-2"±	7'-8"±

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)
S:\PM\5 7/6/15

Sheet Version 2.2
12/14/2015

BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE	BY:

STRUCTURE NO. 53C-1361

INDEX NO. D-34619

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
KANG CHEN
NO. 51395
EXP. 06-30-2016
STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

GARY LEE MOORE, P.E.
CITY ENGINEER
DATE:
LIC. NO. 51395
DESIGN GROUP

ENGINEER:	KANG CHEN
DESIGNED BY:	XIANGYANG FU
DRAWN BY:	KAI WANG
CHECKED BY:	KANG CHEN
APPROVED BY:	ROBERT E. SENNETT IV

VERTICAL CONTROL: NGVD29, 1985 ADJ.
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: TYPICAL SECTION NO. 7

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION

ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGLES, CA

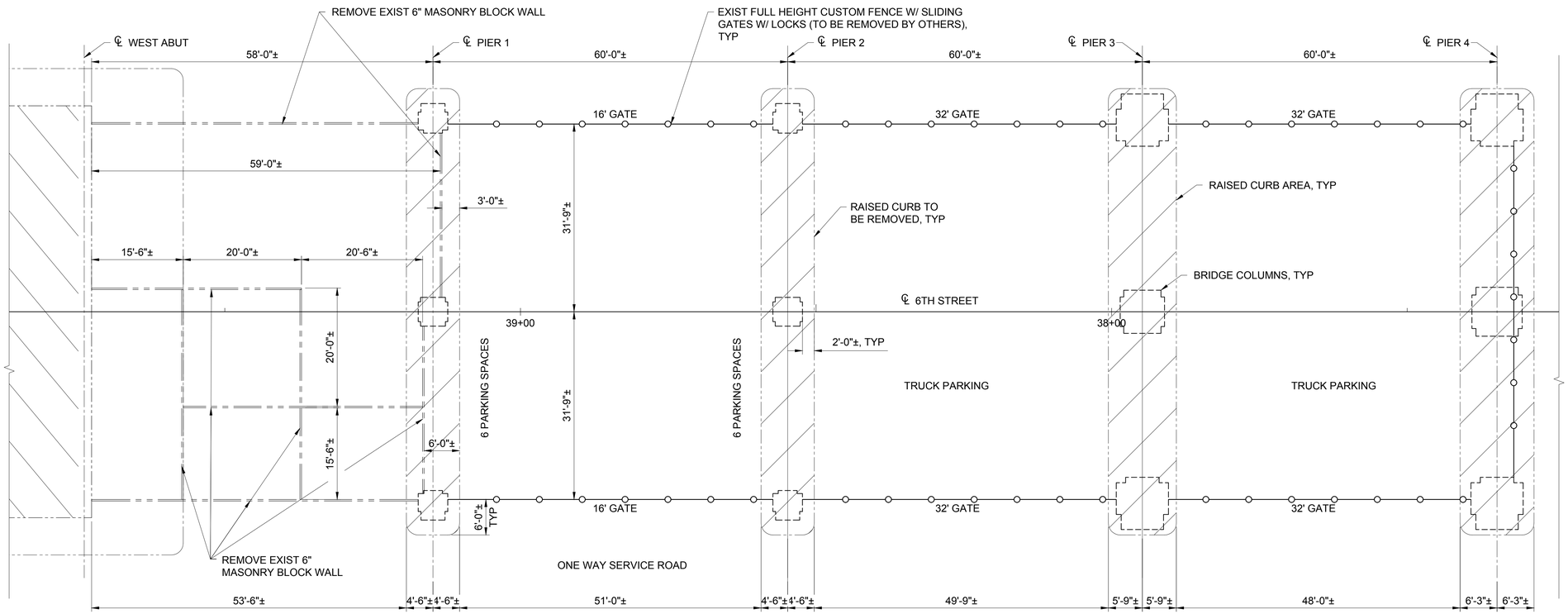
MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

BUREAU OF ENGINEERING
OFFICIAL RECORD

WORK ORDER NO.
E700227F

DRAWING NO.
S-215

SHEET 37 OF 52 SHEETS



PLAN - LABSS FACILITY @ 6TH STREET VIADUCT

1" = 10'-0"

NOTE: REMOVE ALL UNDERGROUND VAULTS OR TANKS, DISCONNECT AND REMOVE ALL UTILITY SERVICES.

LEGEND

- INDICATES RAISED CURB TO BE REMOVED
- INDICATES LIMITS OF RETAINING WALL AND APPROACH FILL REMOVAL

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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REVISION DATES (DESIGN STAGE ONLY)
5/4/15
7/6/15

Sheet Version 2.2
12/14/2015

BUREAU OF ENGINEERING • CITY OF LOS ANGELES • DEPARTMENT OF PUBLIC WORKS

ENGINEERING
CITY OF LOS ANGELES

STRUCTURE NO. 53C-1361

INDEX NO. D-34619

NO.	REVISIONS:	DATE	BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
KANG CHEN
NO. 51395
EXP. 06-30-2016
STATE OF CALIFORNIA

GARY LEE MOORE, P.E. CITY ENGINEER
DATE:
LIC. NO. 51395
DESIGN GROUP

ENGINEER:	KANG CHEN
DESIGNED BY:	XIANGYANG FU
DRAWN BY:	KAI WANG
CHECKED BY:	KANG CHEN
APPROVED BY:	ROBERT E. SENNETT IV

VERTICAL CONTROL: NGVD29, 1985 ADJ.
HORIZONTAL CONTROL: NAD83, EPOCH 1991.5

SHEET TITLE: LABSS FACILITY

PROJECT: SIXTH STREET VIADUCT REPLACEMENT
EXISTING BRIDGE DEMOLITION

ADDRESS: 6TH STREET (WHITTIER BLVD)
LOS ANGELES, CA

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

BUREAU OF ENGINEERING
OFFICIAL RECORD

WORK ORDER NO.
E700227F

DRAWING NO.
S-216

SHEET 38 OF 52 SHEETS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.20	1	14

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION
3	LAYOUT PLAN
4	TEMPORARY WATER POLLUTION CONTROL PLAN
5	STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
6-10	TRAFFIC HANDLING DETAILS
STRUCTURE PLANS BR#53-0595	
11	GENERAL PLAN
12	DEMOLITION PLAN NO. 1
13	TYPICAL SECTION NO. 1
14	TYPICAL SECTION NO. 2

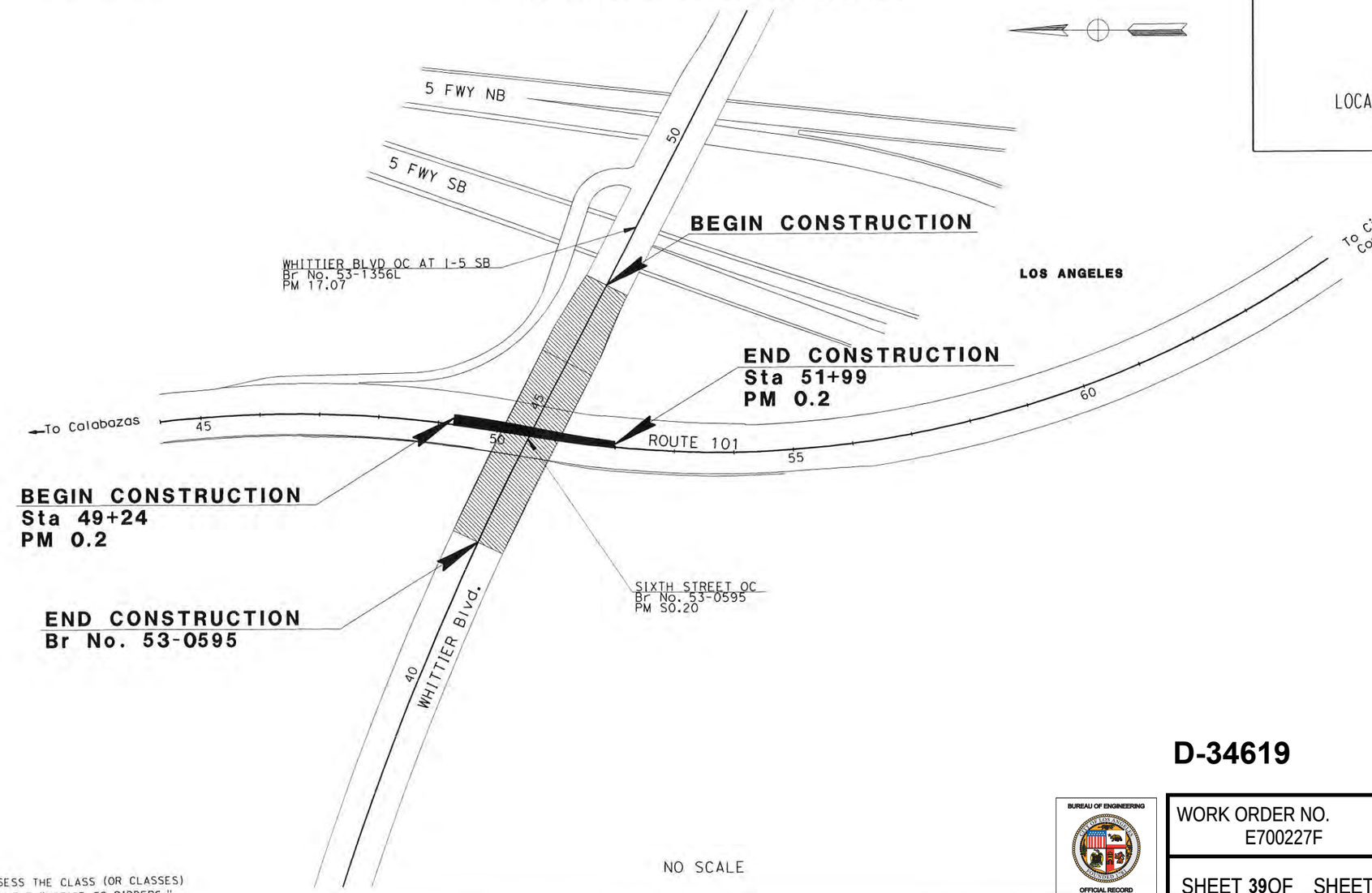
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN LOS ANGELES COUNTY
IN LOS ANGELES
AT WHITTIER BLVD OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010





APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.

CONSULTANT DESIGN ENGINEER	REGISTRATION No.	LICENSE Exp DATE	DATE SIGNED
TAYLOR HENDERSON	50820	9-30-15	7-31-15
CALTRANS DESIGN OVERSIGHT APPROVAL			
REFUGIO DOMINGUEZ - CIVIL	50820	9-30-15	
RICHARD HARTZELL - STRUCTURES	55626	12-31-16	

7/6/15
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

TAYLOR HENDERSON No. 81237 Exp. 9/30/15 CIVIL

PLANS APPROVAL DATE

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D-34619

BUREAU OF ENGINEERING OFFICIAL RECORD

WORK ORDER NO. E700227F	
SHEET 39 OF SHEETS	

HNTB COPORATION
601 W. 5TH STREET
SUITE 1000
LOS ANGELES, CA 90071

CITY OF LOS ANGELES
DEPT OF PUBLIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015

CONTRACT No.	07-251204
PROJECT ID	0700000448

LAST REVISION 00-00-00 DATE PLOTTED => $DATE$ TIME PLOTTED => $TIME$

12/14/2015 THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

BORDER LAST REVISED 9/30/2013 CALTRANS WEB SITE IS: HTTP://WWW.DOT.CA.GOV/

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => $USER$
DGN FILE => $FILE$

UNIT 1819 PROJECT NUMBER & PHASE 07000004481

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.2	2	14

REGISTERED CIVIL ENGINEER — DATE 7/6/15

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TAYLOR HENDERSON — No. 81237 — Exp. 9/30/15 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HTNB CORPORATION
601 W. 5TH ST.
SUITE 1000
LOS ANGELES, CA 90071

CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015

NOTES:

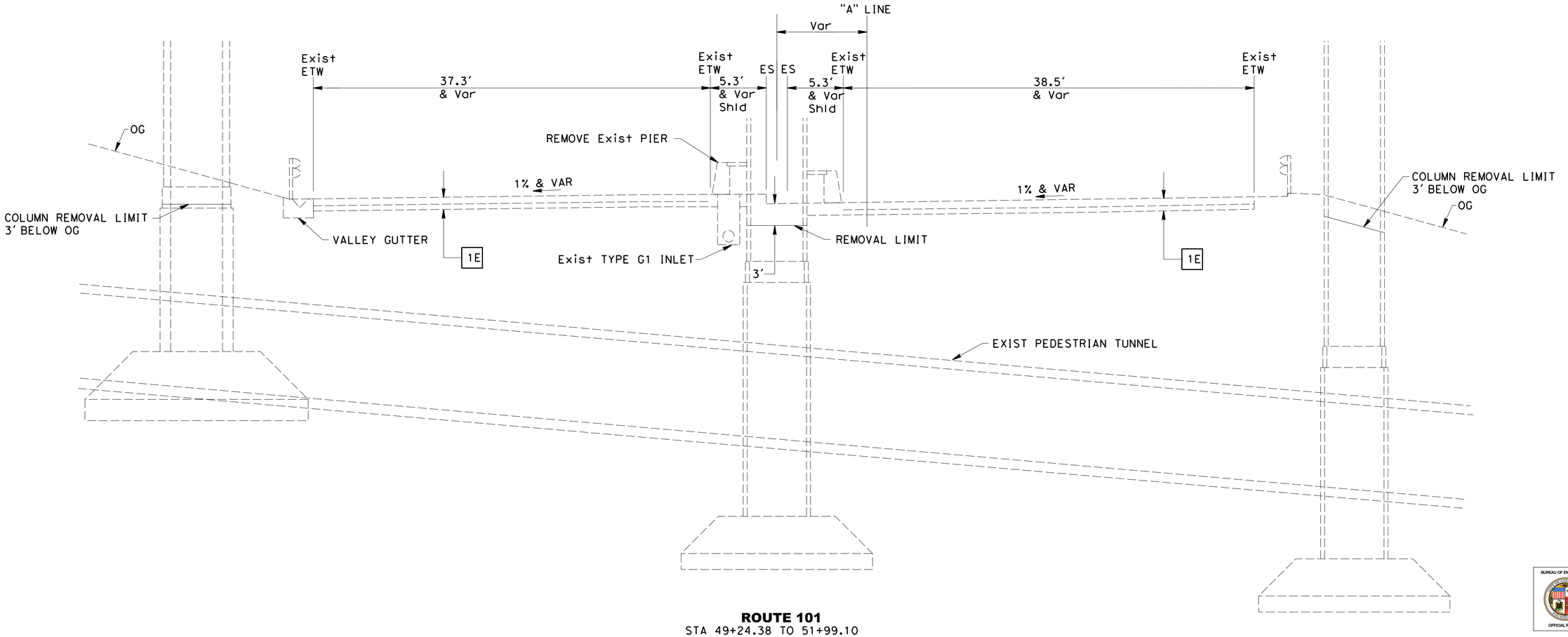
1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.

2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.

3. SEE LAYOUT PLANS FOR CONCRETE BARRIER TYPE

TYPICAL STRUCTURAL SECTION

1E — 0.67′ PCC
0.50′ UNTREATED ROCK BASE



ROUTE 101
STA 49+24.38 TO 51+99.10

BUREAU OF ENGINEERING — OFFICIAL RECORD

TYPICAL CROSS SECTIONS

NO SCALE

D-34619

WORK ORDER NO. E700227F

SHEET 40 OF SHEETS

X-1

REVISED BY	DATE REVISED

CALCULATED–DESIGNED BY: TAYLOR HENDERSON
CHECKED BY: TERENCE PAO
CONSULTANT FUNCTIONAL SUPERVISOR: TERENCE PAO
STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION — Caltrans®

LAST REVISION — DATE PLOTTED => $DATE$ — 00-00-00 — TIME PLOTTED => $TIME$

12/14/2015
BORDER LAST REVISED 7/2/2010 | USERNAME =>$USER$ | DGN FILE => $FILE$ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1819 | PROJECT NUMBER & PHASE 07000004481

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.6		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TAYLOR HENDERSON
No. 81237
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HTNB CORPORATION
601 W. 5TH ST.
SUITE 1000
LOS ANGELES, CA 90071

CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015

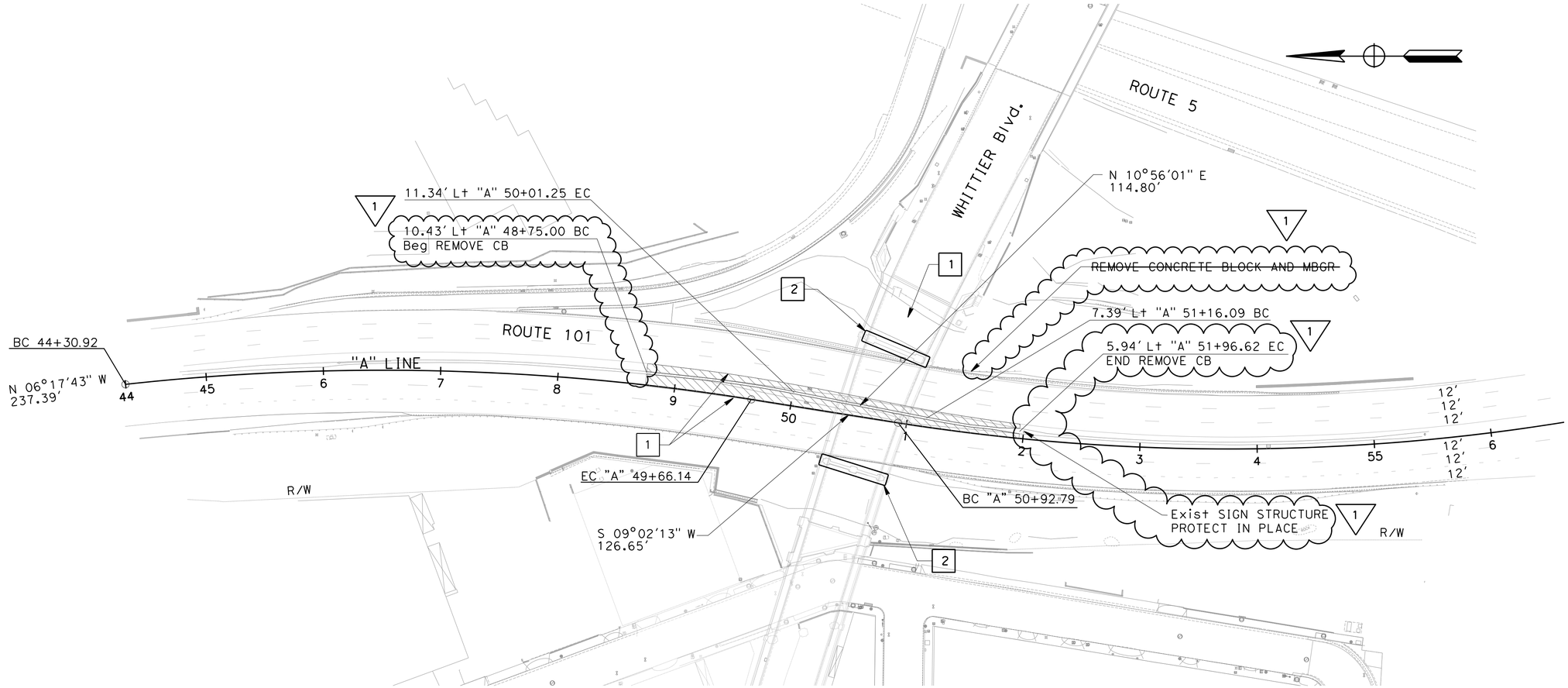
NOTE:

FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES:

1. REMOVE EXISTING SIXTH STREET OVERCROSSING SUPERSTUCTURE

2. ROADWAY EXCAVATION. AERIALLY DEPOSITED LEAD, TYPE Y-1, DEPTH = 4'



LAYOUT

SCALE : 1"=50'

L-1

REVISED BY | DATE REVISED
TAYLOR HENDERSON | TERENCE PAO
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR | TERENCE PAO
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans

LAST REVISION | DATE PLOTTED => $DATE$
00-00-00 | TIME PLOTTED => $TIME$

BORDER LAST REVISED 7/2/2010 | USERNAME =>$USER$ DGN FILE => $FILE$ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1819 | PROJECT NUMBER & PHASE 07000004481

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.2	4	14

Kourosh Sameni — 7/6/15
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER
KOUROSH SAMENI
No. 45318
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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HTNB CORPORATION
601 W. 5TH ST.
SUITE 1000
LOS ANGELES, CA 90071

CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015

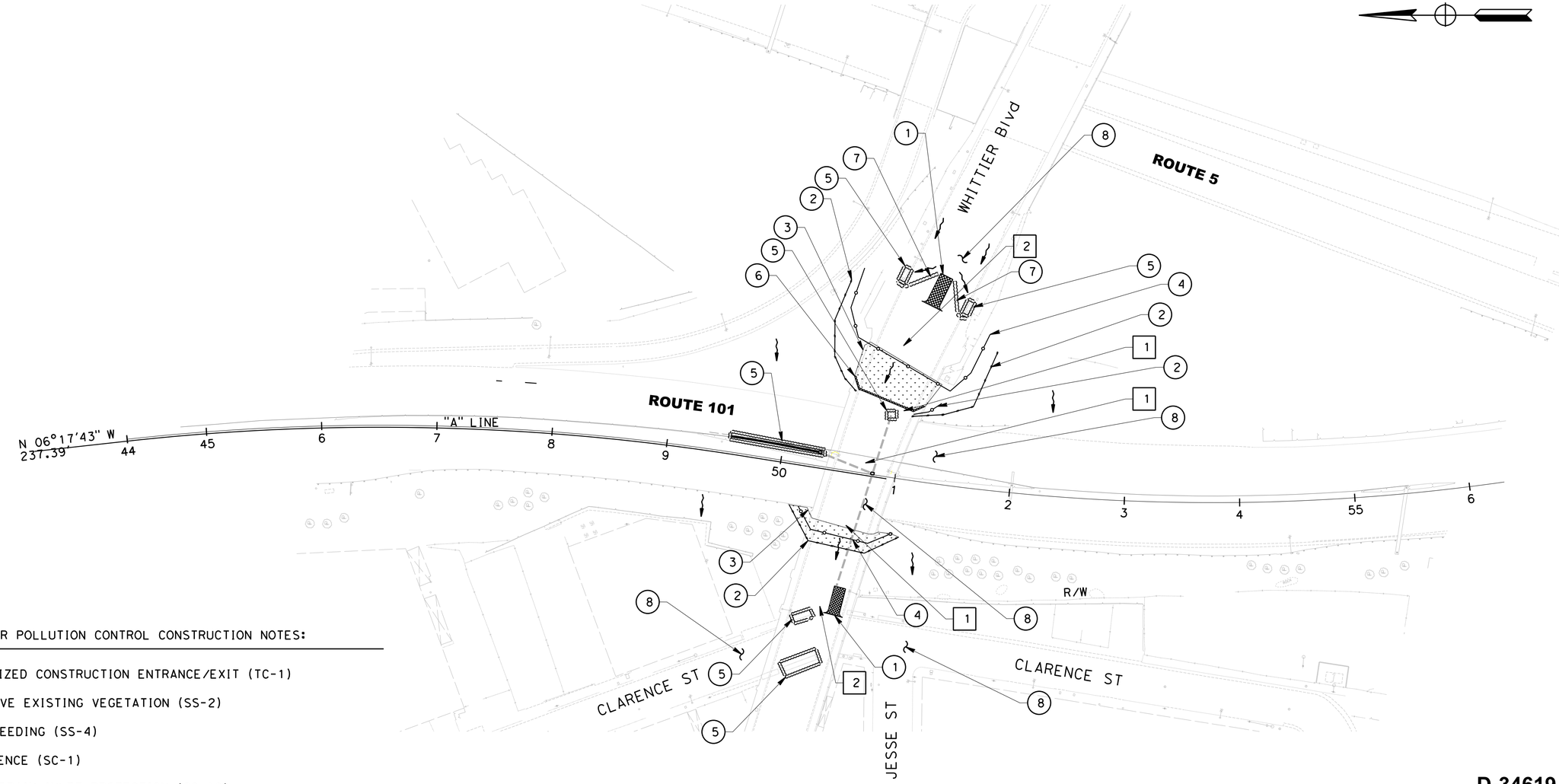
FOR COMPLETE R/W AND ACCURATE ACCESS DATA,
SEE R/W RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES:

1. REMOVE EXISTING BRIDGE PIER
2. REMOVE EXISTING BRIDGE ABUTMENT

LEGEND:

- SC-10 STORM DRAIN INLET PROTECTION
- SURFACE FLOW DIRECTION
- SS-2 PRESERVATION OF EXISTING VEGETATION
- SS-4 HYDROSEEDING
- TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
- SC-1 SILT FENCE
- SC-5 FIBER ROLLS
- SC-8 SANDBAG BARRIER



STORM WATER POLLUTION CONTROL CONSTRUCTION NOTES:

1. STABILIZED CONSTRUCTION ENTRANCE/EXIT (TC-1)
2. PRESERVE EXISTING VEGETATION (SS-2)
3. HYDROSEEDING (SS-4)
4. SILT FENCE (SC-1)
5. STORM DRAIN INLET PROTECTION (SC-10)
6. FIBER ROLLS (SC-5)
7. SANDBAG BARRIER (SC-8)
8. STREET SWEEPING AND VACUUMING (SC-7)

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

BUREAU OF ENGINEERING — OFFICIAL RECORD

D-34619

TEMPORARY WATER POLLUTION CONTROL

WORK ORDER NO. E700227F
SHEET 42 OF SHEETS

SCALE : 1"=50'

TWPC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: TERENCE PAO
CALCULATED-DESIGNED BY: KOUROSH SAMENI
CHECKED BY: TERENCE PAO
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => $DATE$ | TIME PLOTTED => $TIME$
00-00-00

12/14/2015
BORDER LAST REVISED 7/2/2010
USERNAME =>$USER$
DGN FILE => $FILE$
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1819
PROJECT NUMBER & PHASE 07000004481

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.6		

REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
TAYLOR HENDERSON
No. 81237
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HTNB CORPORATION
601 W. 5TH ST.
SUITE 1000
LOS ANGELES, CA 90071

CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015

FOR COMPLETE R/W AND ACCURATE ACCESS DATA,
SEE R/W RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES:

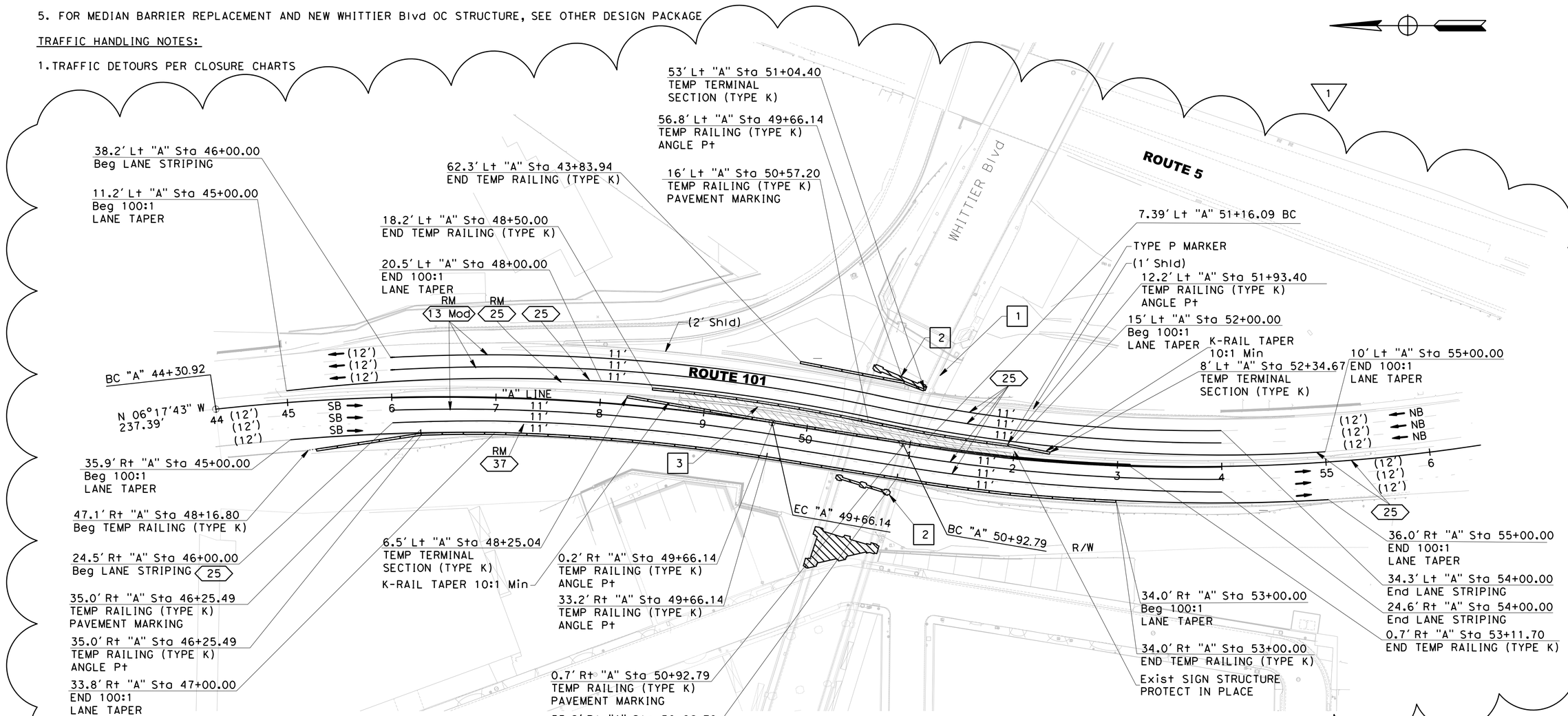
1. REMOVE EXISTING BRIDGE SUPERSTRUCTURE DURING NIGHT TIME FREEWAY CLOSURES.
2. REMOVE EXISTING BRIDGE PIERS DURING NIGHT TIME FREEWAY CLOSURES.
3. REMOVE MEDIAN BARRIER DURING NIGHT TIME LANE CLOSURES.
4. TEMPORARY TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC. (1)
5. FOR MEDIAN BARRIER REPLACEMENT AND NEW WHITTIER Blvd OC STRUCTURE, SEE OTHER DESIGN PACKAGE

TRAFFIC HANDLING NOTES:

1. TRAFFIC DETOURS PER CLOSURE CHARTS

LEGEND:

- REMOVAL LIMIT
- No. — PAVEMENT DELINEATION DETAIL No.
- RM No. — REMOVE PAVEMENT DELINEATION DETAIL No.
- Temp RAILING (TYPE K) WITH SCUPPERS AND TRAFFIC SCREEN
- DIRECTION OF TRAVEL



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE : 1"=50'

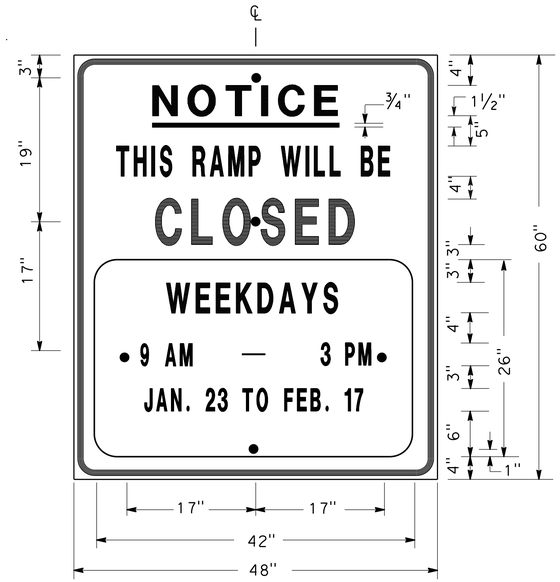
APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-1

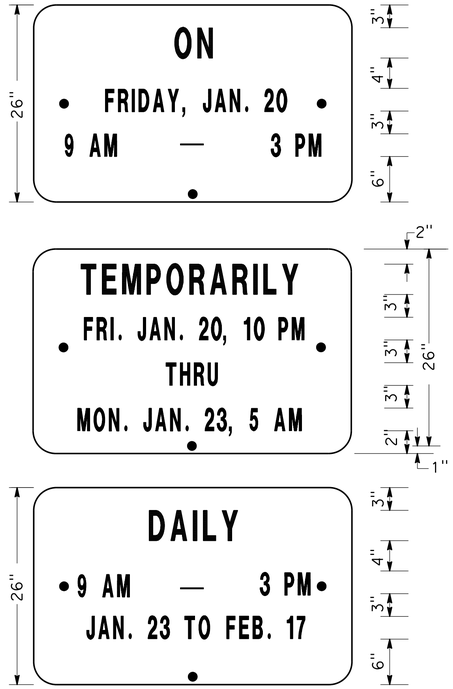
REVISED BY | DATE REVISED
TAYLOR HENDERSON | TERENCE PAO
CALCULATED– DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: TERENCE PAO
STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => $DATE$ TIME PLOTTED => $TIME$

BORDER LAST REVISED 7/2/2010 | USERNAME =>$USER$ DGN FILE => $FILE$ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1819 | PROJECT NUMBER & PHASE 07000004481



SIGN SP-1



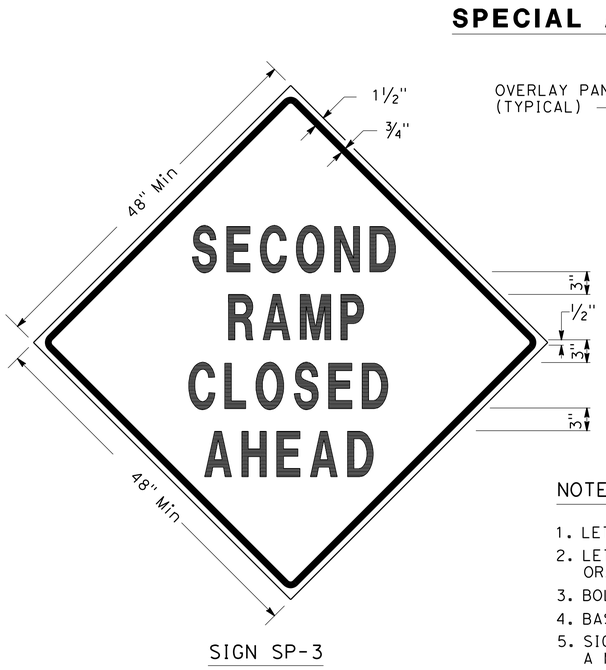
ALTERNATE OVERLAY PANELS (TYPICAL)

NOTES: SIGN SP-1

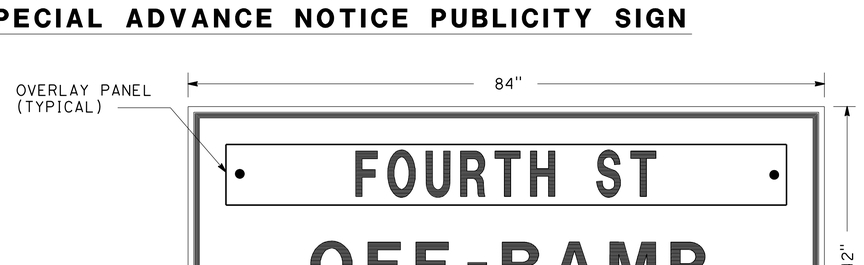
1. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
2. BOLT HOLES MUST BE 3/8" DIAMETER.
3. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
4. SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5, 6, & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"
* CONDENSED SPACING IF NECESSARY								

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3

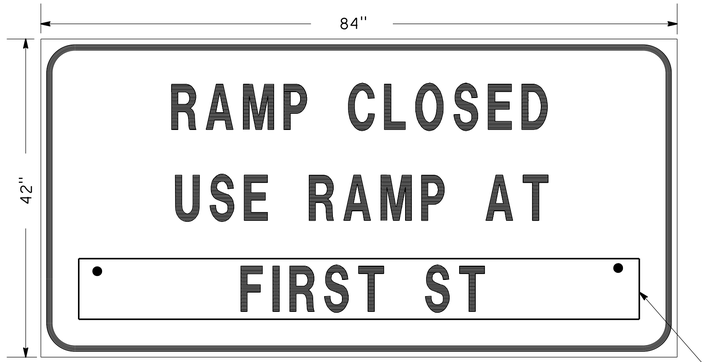


SIGN SP-5

NOTES: SIGNS SP-3 & SP-5

1. LETTERS - 6" SERIES D.
2. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
3. BOLT HOLES MUST BE 3/8" DIAMETER.
4. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
5. SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.
6. SIGN SP-5 MUST BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

SPECIAL SIGNS FOR EXIT RAMP CLOSURES



SIGN SP-4

OVERLAY PANEL (TYPICAL)

NOTES: SIGN SP-4

1. LETTERS - 6" SERIES C.
2. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
3. BOLT HOLES MUST BE 3/8" DIAMETER.
4. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
5. SIGNS MUST BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH REVISED STANDARD PLAN RSP T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.2	6	14

REGISTERED CIVIL ENGINEER — DATE 7/6/15

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TAYLOR HENDERSON — No. 81237 — Exp. 9/30/15 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HTNB CORPORATION
601 W. 5TH ST.
SUITE 1000
LOS ANGELES, CA 90071

CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS

BUREAU OF ENGINEERING — OFFICIAL RECORD

WORK ORDER NO. E700227F

SHEET 44 OF SHEETS

SHEET 1 OF 2

NO SCALE

D-34619

THD-1

REVISED BY	DATE REVISED
TAYLOR HENDERSON	TERENCE PAO
CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	TERENCE PAO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans®

LAST REVISION — DATE PLOTTED => $DATE$ — TIME PLOTTED => $TIME$ — 00-00-00

12/14/2015
BORDER LAST REVISED 7/2/2010

USERNAME =>$USER$
DGN FILE => $FILE$

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1819 | PROJECT NUMBER & PHASE 07000004481

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.2	7	14

REGISTERED CIVIL ENGINEER — DATE 7/6/15

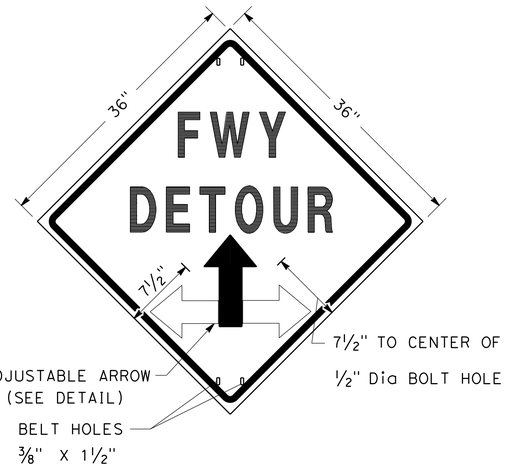
REGISTERED PROFESSIONAL ENGINEER — TAYLOR HENDERSON — No. 81237 — Exp. 9/30/15 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

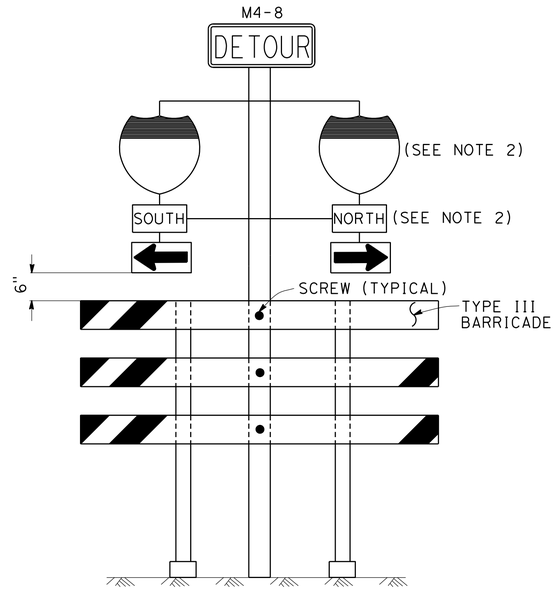
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SUITE 1000
LOS ANGELES, CA 90071

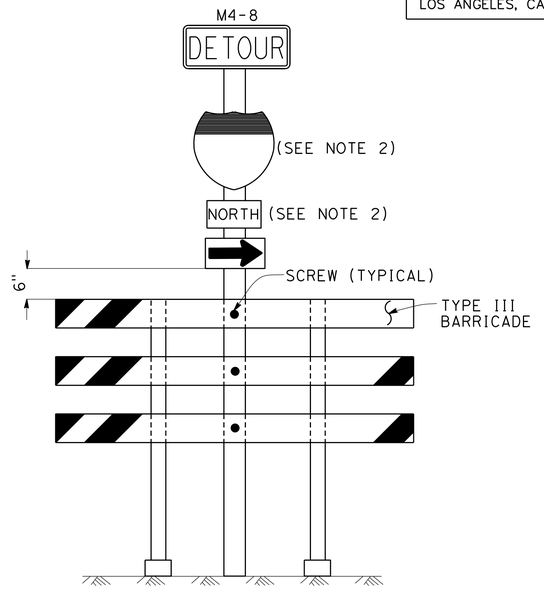
CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015



SIGN SP-2



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

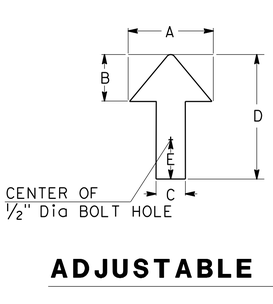
NOTES: SIGN SP-2

1. LETTERS - 6" SERIES E.
2. LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL FOR SIGNS AND ARROWS MUST BE ALUMINUM (MINIMUM 0.06").
4. BELTS (LUGGAGE STRAPS) MUST BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
5. SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

NOTES: SIGNS SP-6 & SP-7

1. IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
2. USE APPROPRIATE ROUTE MARKER [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)].

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



DIMENSIONS				
A	B	C	D	E
6"	3"	2"	8"	1"

ADJUSTABLE ARROW DETAIL

ABBREVIATION

(CA) CALIFORNIA CODE

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS

SHEET 2 OF 2

NO SCALE

WORK ORDER NO. E700227F

SHEET 45 OF SHEETS

THD-2

D-34619

BUREAU OF ENGINEERING — OFFICIAL RECORD

REVISED BY | DATE REVISED
TAYLOR HENDERSON | TERENCE PAO
CALCULATED–DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: TERENCE PAO
STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION — Caltrans®

LAST REVISION — DATE PLOTTED => $DATE$ — TIME PLOTTED => $TIME$ — 00-00-00

12/14/2015
BORDER LAST REVISED 7/2/2010
USERNAME =>$USER$
DGN FILE => $FILE$
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1819
PROJECT NUMBER & PHASE 07000004481

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.2	8	14

REGISTERED CIVIL ENGINEER — DATE 7/6/15

REGISTERED PROFESSIONAL ENGINEER — TAYLOR HENDERSON — No. 81237 — Exp. 9/30/15 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HTNB CORPORATION
601 W. 5TH ST.
SUITE 1000
LOS ANGELES, CA 90071

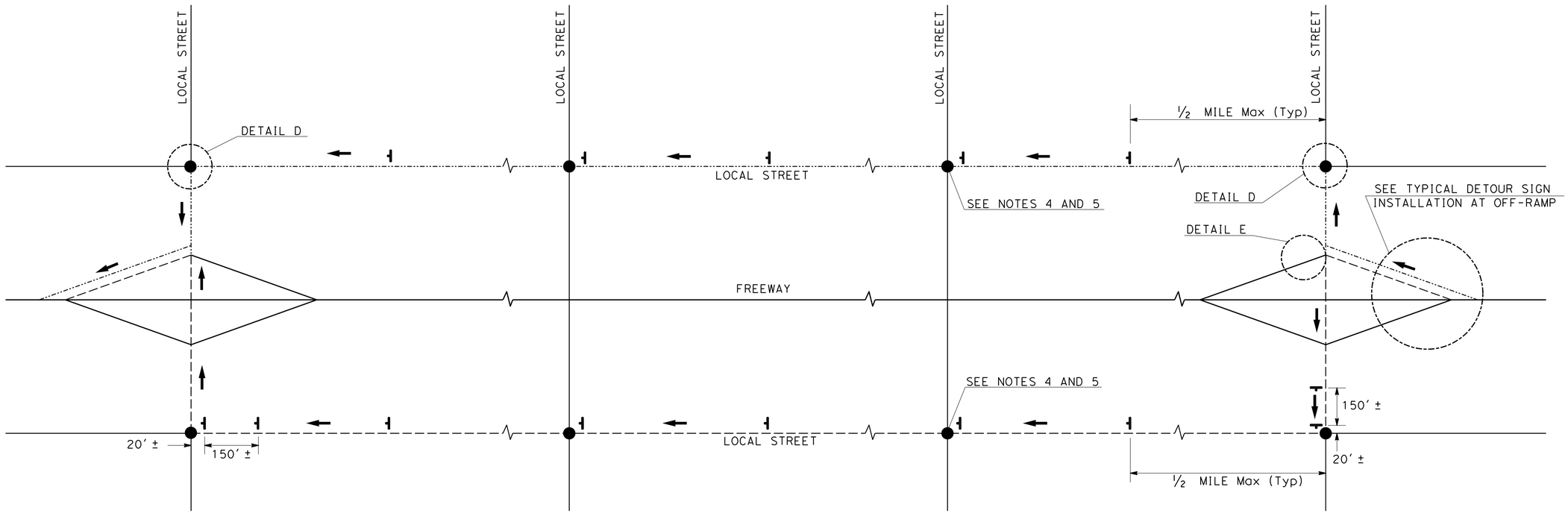
CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015

LEGEND

- SIGN SP-2
- AND/OR — DESIGNATED DETOUR ROUTE
- DETOUR DIRECTION
- CONTROLLED INTERSECTION

NOTES:

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
4. SP-2 SIGNS MUST BE POSTED AT EACH CONTROLLED INTERSECTION (EXCEPT AT COMMERCIAL PROPERTY, RESIDENTIAL COMPLEX OR T-INTERSECTION FROM ONE-WAY STREET) ALONG THE DESIGNATED DETOUR ROUTE.
5. UNLESS OTHERWISE SHOWN ON OTHER THD PLANS, WHEN CONTROLLED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE ARE CLOSELY SPACED, PLACE SP-2 SIGNS AT CONTROLLED INTERSECTIONS AT A DISTANCE NOT TO EXCEED 1/4 MILE FROM THE PRECEDING DETOUR SIGN.
6. EXCEPT AS OTHERWISE SHOWN ON OTHER PLANS OR SPECIFIED IN THE SPECIAL PROVISIONS, SP-2 SIGNS MUST BE PLACED AS SHOWN ON THIS PLAN.



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

BUREAU OF ENGINEERING — OFFICIAL RECORD

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

WORK ORDER NO. E700227F

SHEET 46 OF SHEETS

SHEET 1 OF 3

NO SCALE

D-34619

THD-3

LAST REVISION 00-00-00 — DATE PLOTTED => $DATE$ — TIME PLOTTED => $TIME$

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans®

CONSULTANT FUNCTIONAL SUPERVISOR: TERENCE PAO

CALCULATED-DESIGNED BY: TAYLOR HENDERSON — CHECKED BY: TERENCE PAO

REVISED BY — DATE REVISED

12/14/2015
BORDER LAST REVISED 7/2/2010

USERNAME =>$USER$
DGN FILE => $FILE$

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1819

PROJECT NUMBER & PHASE 07000004481

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.2	9	14

REGISTERED CIVIL ENGINEER — DATE 7/6/15

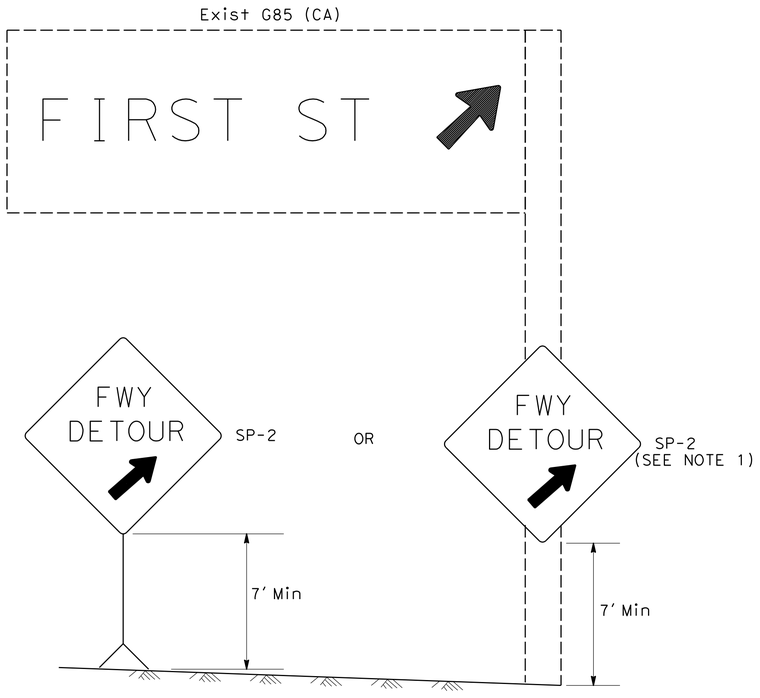
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TAYLOR HENDERSON — No. 81237 — Exp. 9/30/15 — CIVIL — STATE OF CALIFORNIA

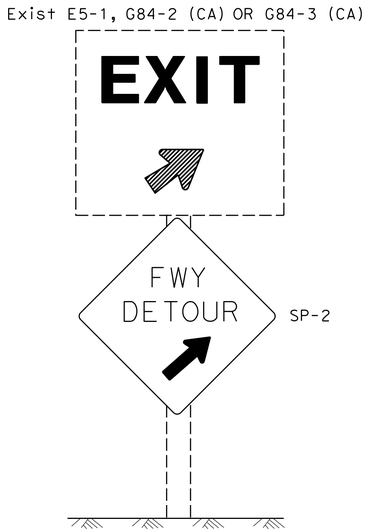
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HTNB CORPORATION
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SUITE 1000
LOS ANGELES, CA 90071

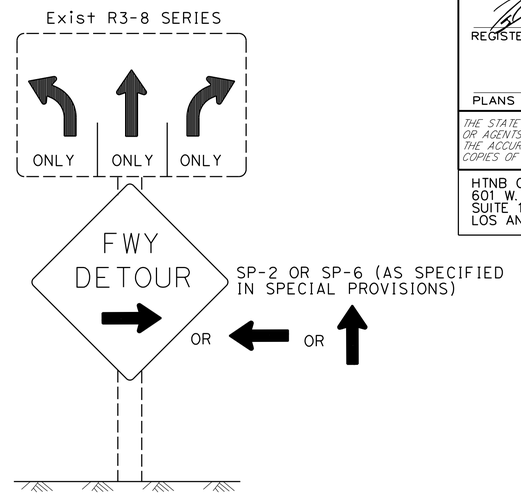
CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015



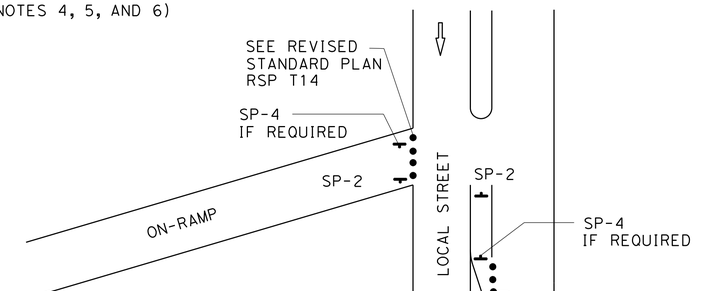
DETAIL A (SEE NOTE 3)



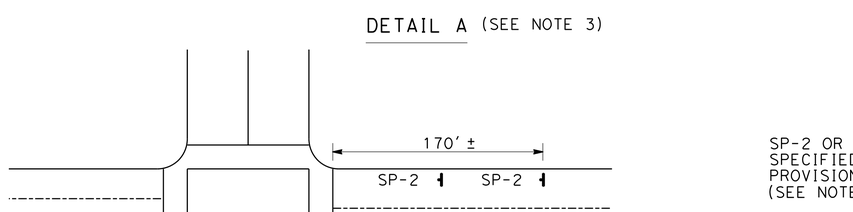
DETAIL B (SEE NOTE 3)



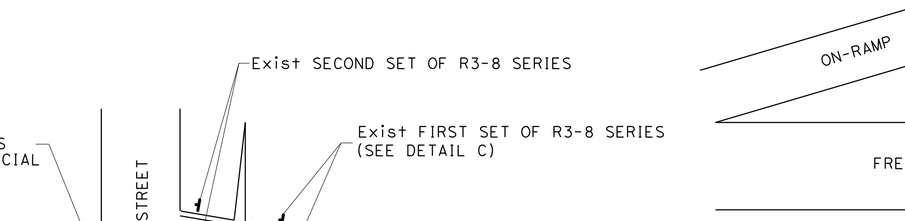
DETAIL C (SEE NOTES 4, 5, AND 6)



DETAIL E



DETAIL D



TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

NOTES: SIGN SP-2

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. OMIT DETAILS A AND B FOR FULL FREEWAY CLOSURES.
4. SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-6 SIGN DETAILS.
5. IF R3-8 SERIES SIGNS ARE NOT PRESENT AT THE OFF-RAMP, SP-2 OR SP-6 SIGNS MUST BE FASTENED ONTO EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
6. EXCEPT FOR DETAILS A & B, OMIT SP-2 SIGNS IF RAMP HAS MANDATORY SINGLE MOVE.

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- DETOUR DIRECTION
- EXISTING OVERHEAD SIGN

SIGN CODE LEGEND

XXYY-Y: FEDERAL SIGN CODE PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

XXYY-Y (CA): CALIFORNIA SIGN CODE PER CALIFORNIA MUTCD

BUREAU OF ENGINEERING — OFFICIAL RECORD

D-34619

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

WORK ORDER NO. E700227F

SHEET 47 OF SHEETS

SHEET 2 OF 3

NO SCALE

THD-4

REVISED BY | DATE REVISED
TAYLOR HENDERSON | TERENCE PAO
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: TERENCE PAO
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION | DATE PLOTTED => $DATE$ | TIME PLOTTED => $TIME$
00-00-00

12/14/2015
BORDER LAST REVISED 7/2/2010
USERNAME =>$USER$
DGN FILE => $FILE$
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1819
PROJECT NUMBER & PHASE 07000004481

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.2	10	14

REGISTERED CIVIL ENGINEER — DATE 7/6/15

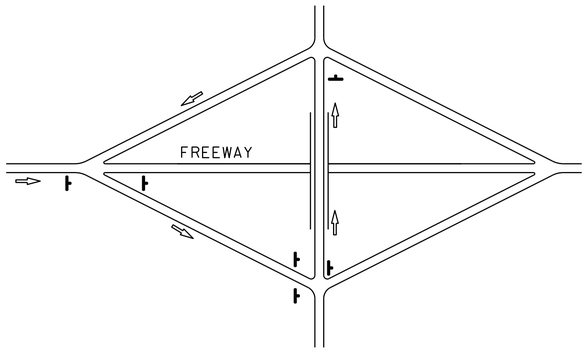
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TAYLOR HENDERSON — No. 81237 — Exp. 9/30/15 — CIVIL — STATE OF CALIFORNIA

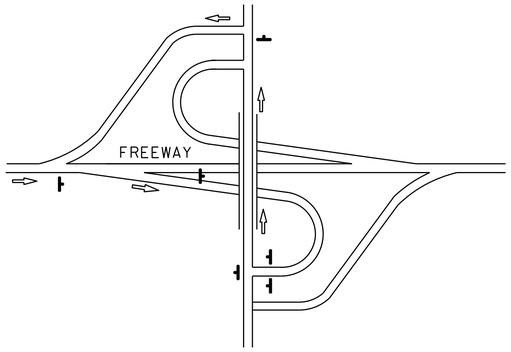
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HTNB CORPORATION
601 W. 5TH ST.
SUITE 1000
LOS ANGELES, CA 90071

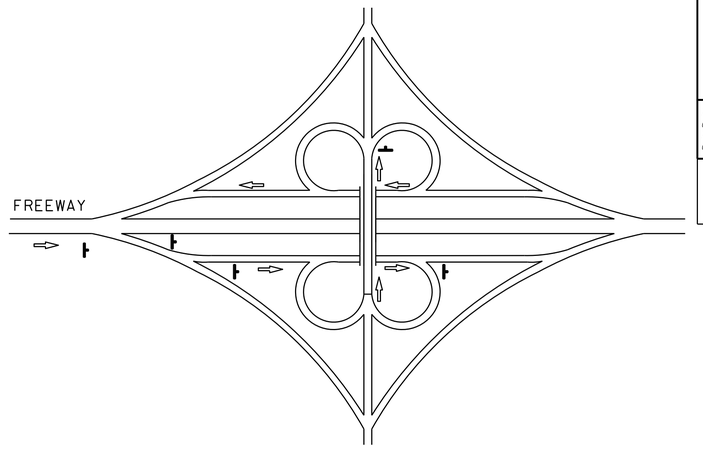
CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015



TYPE I

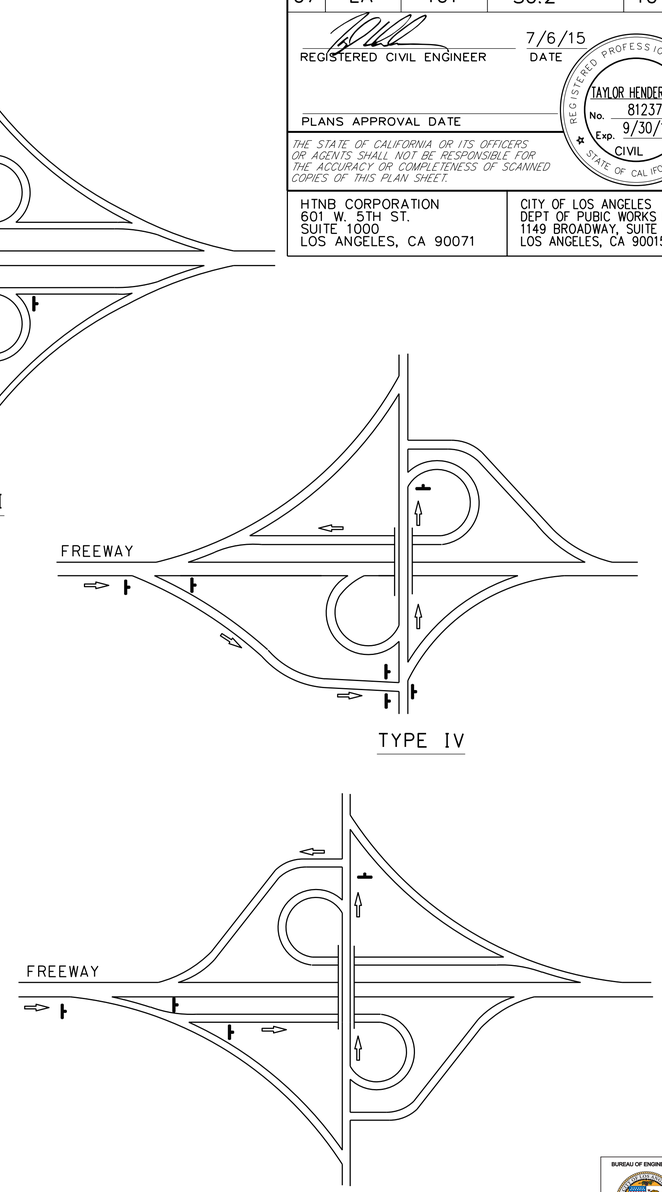


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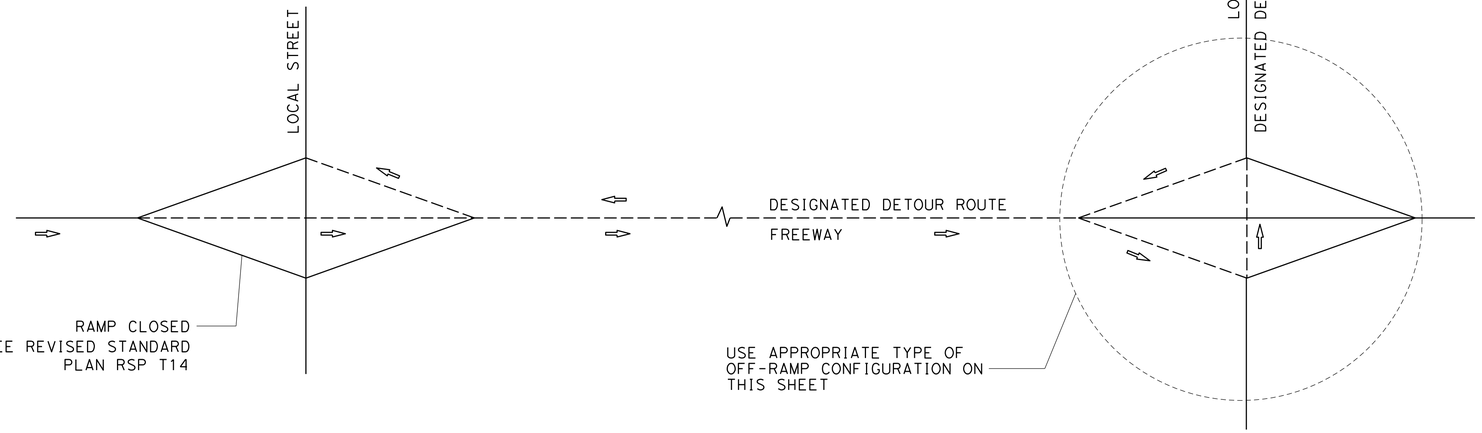


TYPE III

TYPE IV



TYPE V



TYPE OF OFF-RAMP CONFIGURATION	MINIMUM No. OF SP-2
TYPE I	6
TYPE II	6
TYPE III	5
TYPE IV	6
TYPE V	4

TYPICAL DETOUR SIGN INSTALLATION FOR OFF-RAMP CLOSURE

NOTES:

1. FOR RAMP CONFIGURATIONS NOT SHOWN, THE EXACT LOCATIONS AND MINIMUM NUMBER OF SP-2 SIGNS SHALL BE DETERMINED BY THE ENGINEER.
2. SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-2 SIGN DETAILS.

LEGEND

- SIGN SP-2
- DETOUR DIRECTION
- DESIGNATED DETOUR ROUTE

D-34619

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

WORK ORDER NO. E700227F

SHEET 3 OF 3

SHEET 48 OF SHEETS

NO SCALE

THD-5

BUREAU OF ENGINEERING — OFFICIAL RECORD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: TERENCE PAO

CALCULATED-DESIGNED BY: TAYLOR HENDERSON

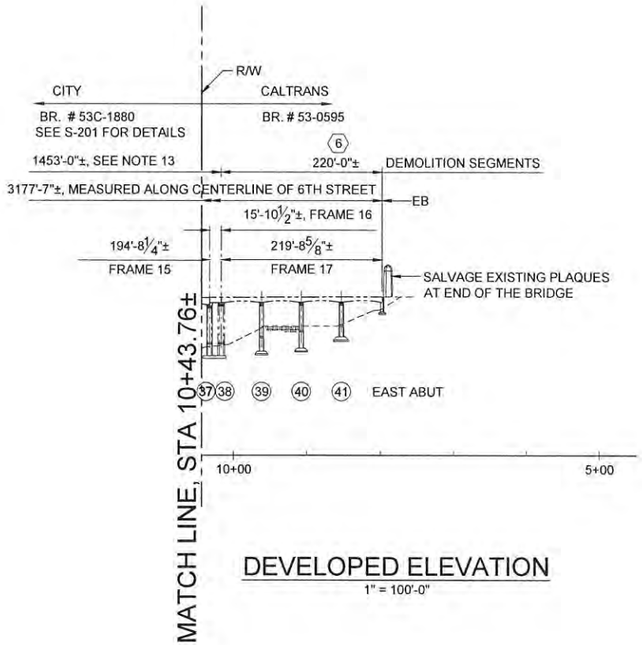
CHECKED BY: TERENCE PAO

REVISED BY | DATE REVISED

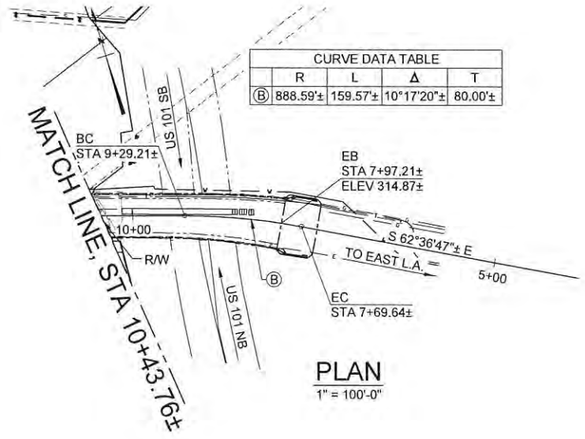
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12/14/2015

BORDER LAST REVISED 7/2/2010 | USERNAME =>$USER$ | DGN FILE => $FILE$ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1819 | PROJECT NUMBER & PHASE 07000004481



DEVELOPED ELEVATION
1" = 100'-0"



PLAN
1" = 100'-0"

GENERAL DEMOLITION NOTES:

1. DESIGN SPECIFICATIONS AND GUIDELINES:
   AASHTO "THE MANUAL FOR BRIDGE EVALUATION", 2ND EDITION WITH 2013 INTERIM REVISIONS; UNION PACIFIC RAILROAD "GUIDELINES FOR PREPARATION OF A BRIDGE DEMOLITION AND REMOVAL PLAN FOR STRUCTURES OVER RAILROAD" (1998); CALTRANS "FALSEWORK MANUAL" (1988); AND THESE GENERAL DEMOLITION NOTES. WHEN A CONFLICT OCCURS, THESE NOTES SHALL GOVERN. THE ANALYSIS AND DEMOLITION SEQUENCE OF THE EXISTING REINFORCED CONCRETE STRUCTURES SHALL BE BASED ON LOAD FACTOR DESIGN (LFD); AND ANALYSIS AND DEMOLITION SEQUENCE OF THE EXISTING STEEL ARCH STRUCTURE SHALL BE BASED ON ALLOWABLE STRESS DESIGN (ASD).

2. LIVE LOAD IMPACT:
   NORMAL CONSTRUCTION EQUIPMENT SHALL HAVE A 30% IMPACT FACTOR APPLIED, WHILE EQUIPMENT SUCH AS RAM HOES THAT ARE SUBJECT TO VIBRATION SHALL HAVE 50% IMPACT FACTOR.

3. WIND LOAD:
   CALTRANS "BRIDGE DESIGN SPECIFICATIONS (BDS)" (2004) SHALL BE FOLLOWED TO DETERMINE THE WIND EFFECT. THE WIND PRESSURE ACTING AT SKEW ANGLE AS LISTED IN SECTION 3.15.2.1.1 OF BDS MAY BE SCALED DOWN ACCORDINGLY.

4. EXISTING REINFORCED CONCRETE:
   CONCRETE: f'c = 2,000 psi
   REINFORCING STEEL: fy = 44,000 psi

5. EXISTING STRUCTURAL STEEL:
   Fu = 40,000 psi
   Fy = 36,000 psi

6. THE DEMOLITION SEQUENCE AND METHOD OF DEMOLITION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT DEMOLITION PLANS PREPARED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF CALIFORNIA TO THE ENGINEER FOR AUTHORIZATION PRIOR TO ANY WORK.

7. ADEQUATE STRENGTH AND STABILITY OF THE STRUCTURE OR PARTIALLY DEMOLISHED STRUCTURE SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION PROCESS. DEPENDING ON DEMOLITION SEQUENCE AND EQUIPMENT USED, EXISTING STRUCTURE MEMBERS AND CONNECTIONS MAY REQUIRE STRENGTHENING AND/OR SUPPLEMENTAL BRACING.

8. LOCKED-IN FORCE IN MEMBERS DUE TO PREVIOUS ERECTION SEQUENCE SHALL BE CONSIDERED IN DISMANTLING PROCEDURES. MEMBERS UNDER STRESS SHALL BE UNLOADED TO A LEVEL THAT WILL NOT RESULT IN A SUDDEN REDISTRIBUTION OF MEMBER FORCES OR EXCESSIVE DISPLACEMENT. THE AS-BUILT INFORMATION MAY NOT REVEAL THE TRUE MAGNITUDE OF THE FORCES. CONTRACTOR SHALL EXERCISE THE BEST PRACTICES TO ENVELOPE LIKELY MAXIMUM EFFECTS AND DESIGN A DEMOLITION SEQUENCE ACCORDINGLY.

9. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY AGENCIES PRIOR TO BRIDGE DEMOLITION.

10. THE CONTRACTOR SHALL IMPLEMENT METHODS TO PROTECT ALL BUILDINGS AND ROADWAYS ADJACENT TO OR BELOW THE DEMOLITION WORK FROM DEBRIS AND DUST. THESE METHODS SHALL BE SHOWN IN THE CONTRACTOR'S DEMOLITION PLAN.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101	S0.20	11	14

KANG CHEN — REGISTERED CIVIL ENGINEER — DATE 7/6/15

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — KANG CHEN — No. 51395 — Exp. 06/30/16 — CIVIL — STATE OF CALIFORNIA

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

INDEX TO PLANS:

SHEET NO.	SHEET TITLE
S-220	GENERAL PLAN
S-221	DEMOLITION PLAN NO. 1
S-222	TYPICAL SECTION NO. 1
S-223	TYPICAL SECTION NO. 2

LEGEND

(1) - INDICATES PIER NUMBER

⟨1⟩ - INDICATES DEMOLITION SEGMENT

NOTE:
CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

D-34619

BUREAU OF ENGINEERING — OFFICIAL RECORD

WORK ORDER NO. E700227F

SHEET 49 OF SHEETS — S-220

DESIGN OVERSIGHT 22 JULY 2015 SIGN OFF DATE	DESIGN	BY X. FU	CHECKED K. CHEN	LOAD & RESISTANCE FACTOR DESIGN			
	DETAILS	BY K. WANG	CHECKED K. CHEN	LAYOUT	BY X. FU	CHECKED K. CHEN	
	QUANTITIES	BY X. FU	CHECKED K. CHEN	SPECIFICATIONS	BY K. CHEN	PLANS AND SPECS COMPARED K. CHEN	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

KANG CHEN — PROJECT ENGINEER

BRIDGE NO. 53-0595 — POST MILES X

6TH STREET VIADUCT EXISTING BRIDGE DEMOLITION
GENERAL PLAN

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 03/14/12)
12/14/2015

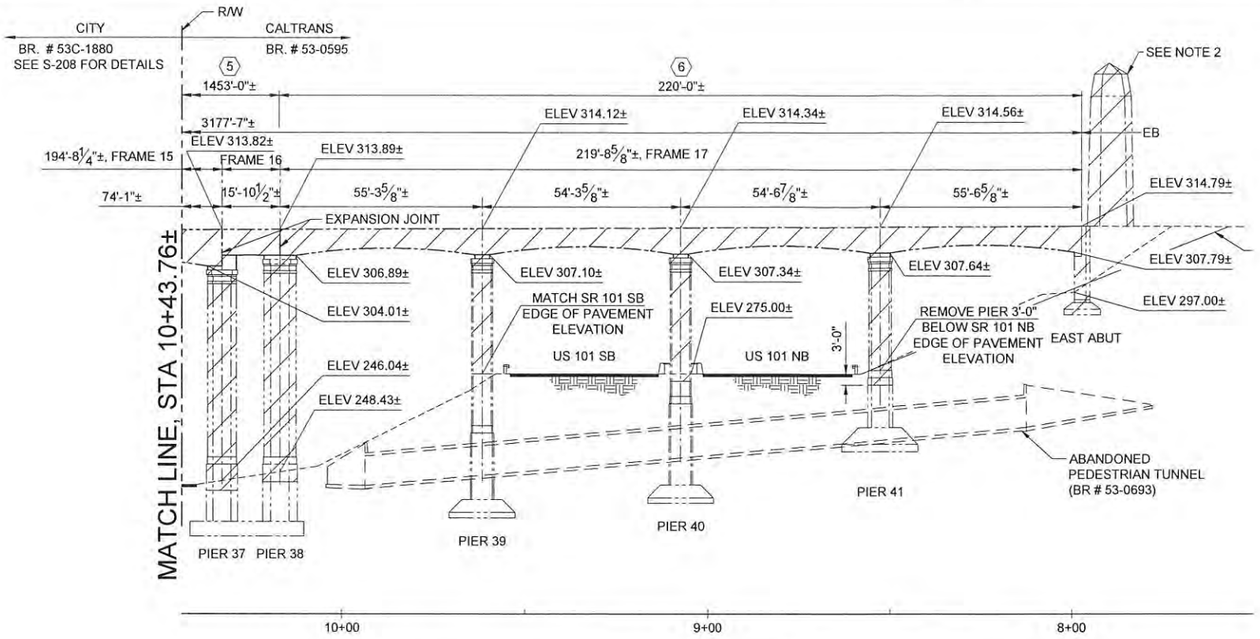
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 1819
PROJECT NUMBER & PHASE: 07000004481
CONTRACT NO.: 07-251204

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
3/09/15	5/08/15	7/6/15		1	4

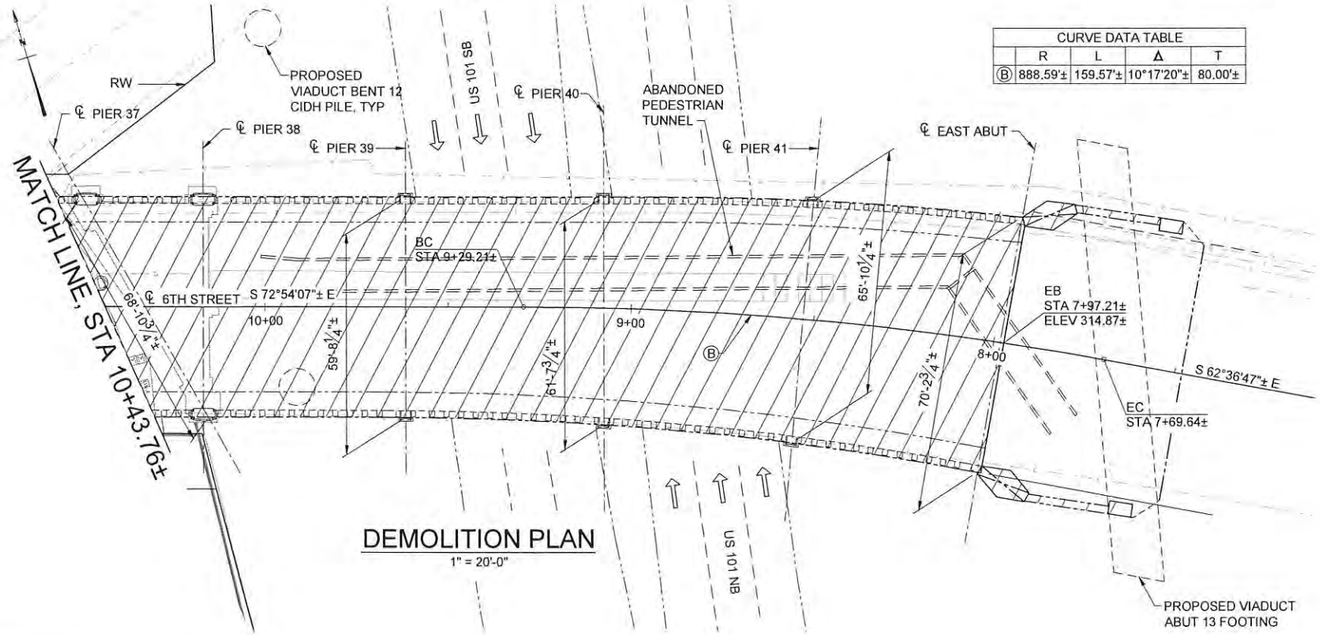
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DATE PLOTTED => $DATE
USERNAME => $USER



DEVELOPED ELEVATION

1" = 20'-0"

NOTES:
1. ALL DIMENSIONS MEASURED ALONG CENTERLINE OF 6TH STREET.
2. SALVAGE EXISTING PLAQUES AT BOTH ENDS OF THE BRIDGE.



CURVE DATA TABLE				
	R	L	Δ	T
Ⓑ	888.59'±	159.57'±	10°17'20"±	80.00'±

DEMOLITION PLAN

1" = 20'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101	S0.20	12	14

KANG CHEN — REGISTERED CIVIL ENGINEER — 7/6/15 DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — K. KANG CHEN — No. 51395 — Exp. 06/30/16 — CIVIL — STATE OF CALIFORNIA

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

LEGEND

▨ - INDICATES LIMITS OF BRIDGE REMOVAL

⑥ - INDICATES DEMOLITION SEGMENT

D-34619

BUREAU OF ENGINEERING — OFFICIAL RECORD

WORK ORDER NO. E700227F

SHEET 50 OF SHEETS

S-221

DESIGN OVERSIGHT: Kang Chen, 22 JULY 2015 (SIGN OFF DATE)	DESIGN	BY X. FU	CHECKED K. CHEN
	DETAILS	BY K. WANG	CHECKED K. CHEN
	QUANTITIES	BY X. FU	CHECKED K. CHEN

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

KANG CHEN — PROJECT ENGINEER

BRIDGE NO. 53-0595 — POST MILES x

6TH STREET VIADUCT EXISTING BRIDGE DEMOLITION

DEMOLITION PLAN NO. 1

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12) — 12/14/2015

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 1819 — PROJECT NUMBER & PHASE: 07000004481 — CONTRACT NO.: 07-251204

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
2/26/15	3/26/15	7/6/15		2	4

USERNAME => $USER — DATE PLOTTED => $DATE — TIME PLOTTED => $TIME

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.20	13	14

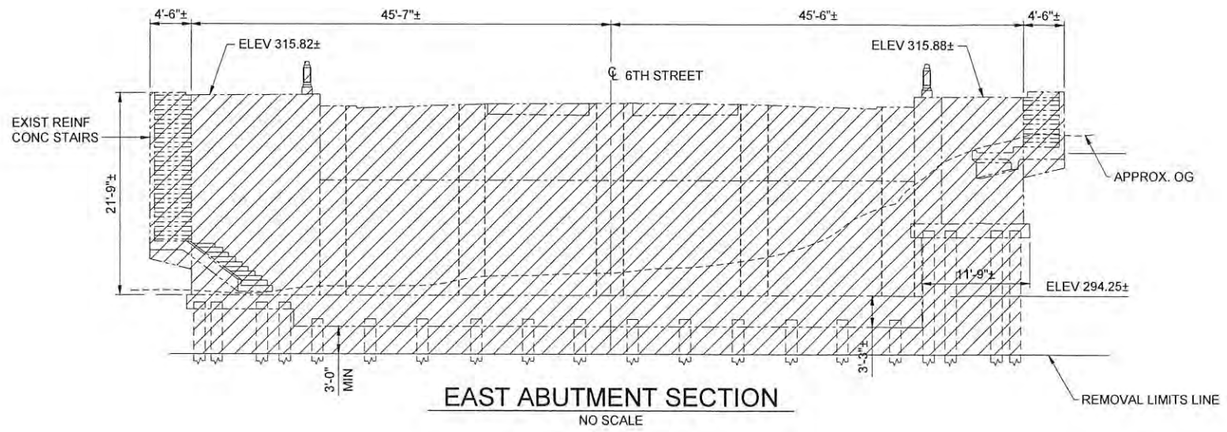
KANG CHEN — REGISTERED CIVIL ENGINEER — 7/6/15 DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — KANG CHEN — No. 51395 — Exp. 06/30/16 — CIVIL — STATE OF CALIFORNIA

MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000



EAST ABUTMENT SECTION
NO SCALE

LEGEND

▨ - INDICATES LIMITS OF BRIDGE REMOVAL

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

D-34619

BUREAU OF ENGINEERING — OFFICIAL RECORD

WORK ORDER NO. E700227F

SHEET 51 OF SHEETS — S-222

DESIGN OVERSIGHT: Rukna C Wang — 22 JULY 2015 SIGN OFF DATE			
DESIGN	BY X. FU	CHECKED K. CHEN	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K. WANG	CHECKED K. CHEN	
QUANTITIES	BY X. FU	CHECKED K. CHEN	

KANG CHEN — PROJECT ENGINEER

BRIDGE NO. 53-0595 — POST MILES x

6TH STREET VIADUCT EXISTING BRIDGE DEMOLITION

TYPICAL SECTION NO. 1

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 1819
PROJECT NUMBER & PHASE: 07000004481
CONTRACT NO.: 07-251204

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
2/20/15	3/24/15	7/6/15		3	4

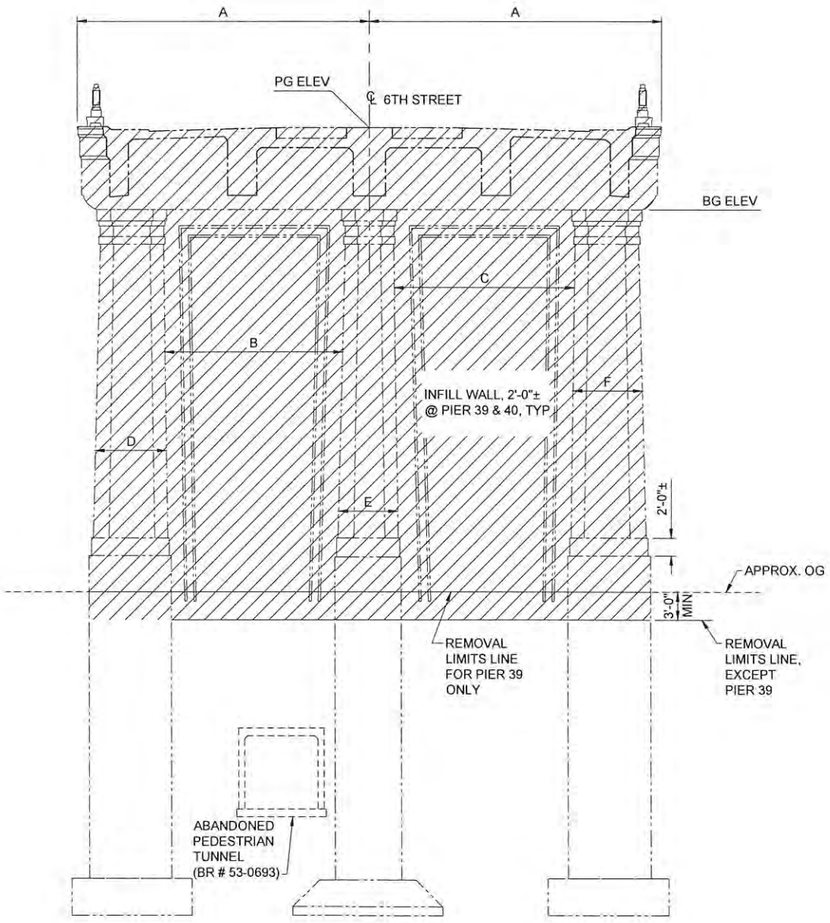
12/14/2015

TIME PLOTTED => $TIME
DATE PLOTTED => $DATE
USERNAME => $USER

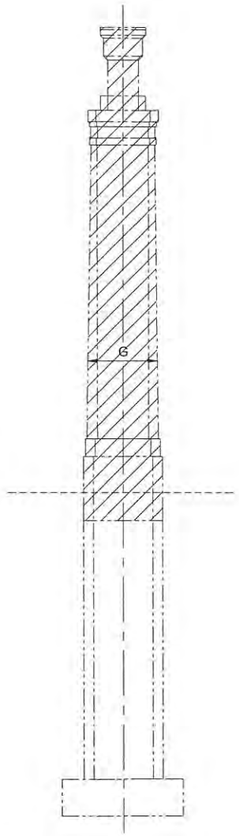
PIER NO.	OG ELEV	PG ELEV	BG ELEV	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G
39	272.67±	314.12±	303.02±	30'-1"±	18'-6"±	18'-6"±	6'-1"±	5'-6"±	6'-1"±	6'-5"±
40	275.00±	314.34±	303.24±	30'-1"±	18'-6"±	18'-6"±	6'-1"±	5'-6"±	6'-1"±	6'-5"±

LEGEND

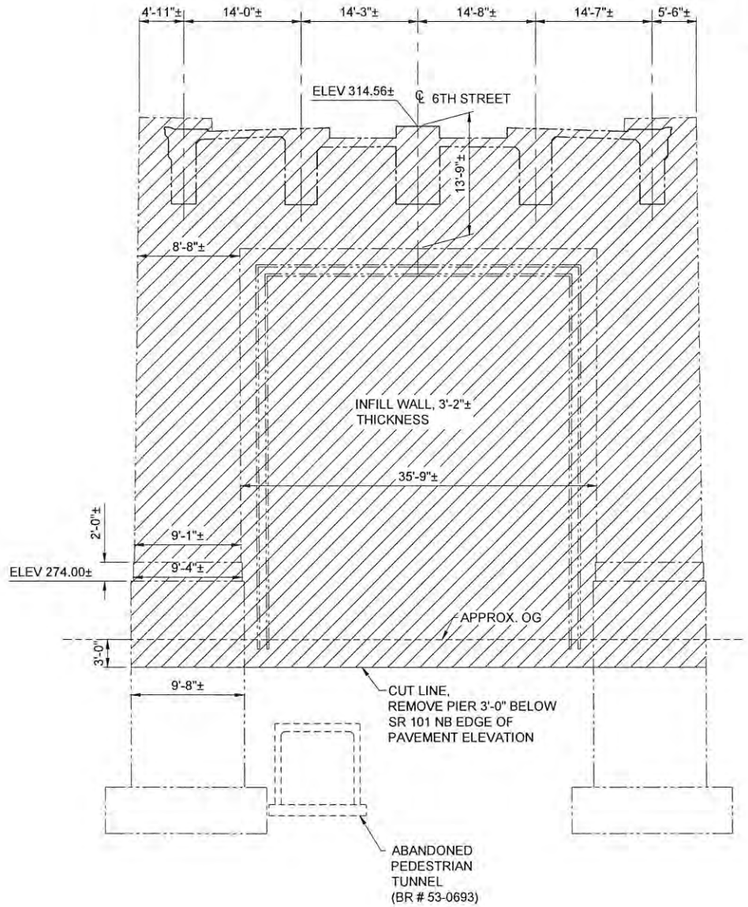
▨ - INDICATES LIMITS OF BRIDGE REMOVAL



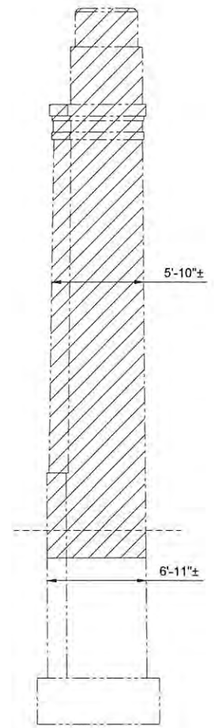
TYPICAL SECTION - PIER 39, & 40
NO SCALE



SIDE ELEVATION
NO SCALE



TYPICAL SECTION - PIER 41
NO SCALE



SIDE ELEVATION
NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT
22 JULY 2015
SIGN OFF DATE

	BY	CHECKED
DESIGN	X. FU	K. CHEN
DETAILS	K. WANG	K. CHEN
QUANTITIES	X. FU	K. CHEN

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

KANG CHEN
PROJECT ENGINEER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101	S0.20	14	14

KANG CHEN 7/6/15
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
K. KANG CHEN
No. 51395
Exp. 06/30/16
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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MGE ENGINEERING INC.
7415 GREENHAVEN DRIVE SUITE 100
SACRAMENTO, CA 95831
(916) 421-1000

BUREAU OF ENGINEERING
OFFICIAL RECORD

WORK ORDER NO.
E700227F

SHEET 52 OF 52 SHEETS

D-34619

S-223

BRIDGE NO. 53-0595
POST MILES x

6TH STREET VIADUCT EXISTING BRIDGE DEMOLITION

TYPICAL SECTION NO. 2

UNIT: 1819
PROJECT NUMBER & PHASE: 07000004481
CONTRACT NO.: 07-251204

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
3/20/15	5/26/15	7/6/15		4	4

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)
12/14/2015

DATE PLOTTED => $DATE
TIME PLOTTED => $TIME
USERNAME => $USER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.6		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TAYLOR HENDERSON
No. 81237
Exp. 9/30/17
CIVIL
STATE OF CALIFORNIA

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601 W. 5TH ST.
SUITE 1000
LOS ANGELES, CA 90071

CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015

NOTES:

1.) PCMS AND CONSTRUCTION AREA SIGNS LOCATIONS SHOWN ARE APROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

2.) REMOVE OR COVER EXISTING CONFLICTING SIGNS DURING CONSTRUCTION AT THE ENGINEERS DIRECTION.



LEGEND:

ROAD CLOSED

PCMS

APPROVED FOR MOTORIST INFORMATION WORK ONLY

100% SUBMITTAL
MOTORIST INFORMATION PLAN
SB PCMS LOCATIONS

NO SCALE **MI-1**

REVISED BY | DATE REVISED
TAYLOR HENDERSON | TERENCE PAO
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: TERENCE PAO
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: DATE PLOTTED => $DATE$ 00-00-00 TIME PLOTTED => $TIME$

BORDER LAST REVISED 7/2/2010 | USERNAME =>$USER$ DGN FILE => $FILE$ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1819 | PROJECT NUMBER & PHASE 07000004481

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.6		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TAYLOR HENDERSON
No. 81237
Exp. 9/30/17
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CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015

PCMS No.	LOCATIONS *	PRIMARY MESSAGE		SECONDARY MESSAGE		REMARKS
		FIRST FLASH	SECOND FLASH	FIRST FLASH	SECOND FLASH	
(1)	SB Rte 101 SOUTH of Rte 134	S 101 BRIDGE WORK	JAN 9 I-10 TO SR 60	S 101 CLOSED AT I-10	USE E 134 TO S 5	
(2)	SB Rte 170 NORTH OF Rte 134	S 101 BRIDGE WORK	JAN 9 I-10 TO SR 60	S 101 CLOSED AT I-10	USE E 134 TO S 5	
(3)	SB Rte 101 AT SANTA MONICA Blvd	S 101 BRIDGE WORK	JAN 9 I-10 TO SR 60	S 101 CLOSED AT I-10	USE E 10 TO S 710	
(4)	SB Rte 101 AT ALVARADO St	S 101 BRIDGE WORK	JAN 9 I-10 TO SR 60	S 101 CLOSED AT I-10	USE E 10 TO S 710	
(5)	SB Rte 110 NORTH OF Rte 101	S 101 BRIDGE WORK	JAN 9 I-10 TO SR 60	S 101 CLOSED AT I-10	USE S 110 TO E 10	
(6)	SB Rte 101 SOUTH OF Rte 110	S 101 BRIDGE WORK	JAN 9 I-10 TO SR 60	S 101 CLOSED AT I-10	USE E 10 TO S 710	

NOTES:

1.) PCMS LOCATIONS TO BE CONFIRMED BY THE ENGINEER BEFORE THE ACTUAL CLOSURE.

2.) ACTIVATE PCMS 2 WEEKS PRIOR TO CLOSURE.

APPROVED FOR MOTORIST INFORMATION WORK ONLY

100% SUBMITTAL
MOTORIST INFORMATION PLAN
SB PCMS LOCATIONS

NO SCALE

MI-2

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
TAYLOR HENDERSON	TERENCE PAO

CONSULTANT FUNCTIONAL SUPERVISOR: TERENCE PAO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION => 00-00-00
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TIME PLOTTED => $TIME$

BORDER LAST REVISED 7/2/2010

USERNAME =>$USER$
DGN FILE => $FILE$

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1819

PROJECT NUMBER & PHASE 07000004481

NOTES:

1.) PCMS AND CONSTRUCTION AREA SIGNS LOCATIONS SHOWN ARE APROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

2.) REMOVE OR COVER EXISTING CONFLICTING SIGNS DURING CONSTRUCTION AT THE ENGINEERS DIRECTION.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.6		

REGISTERED CIVIL ENGINEER DATE

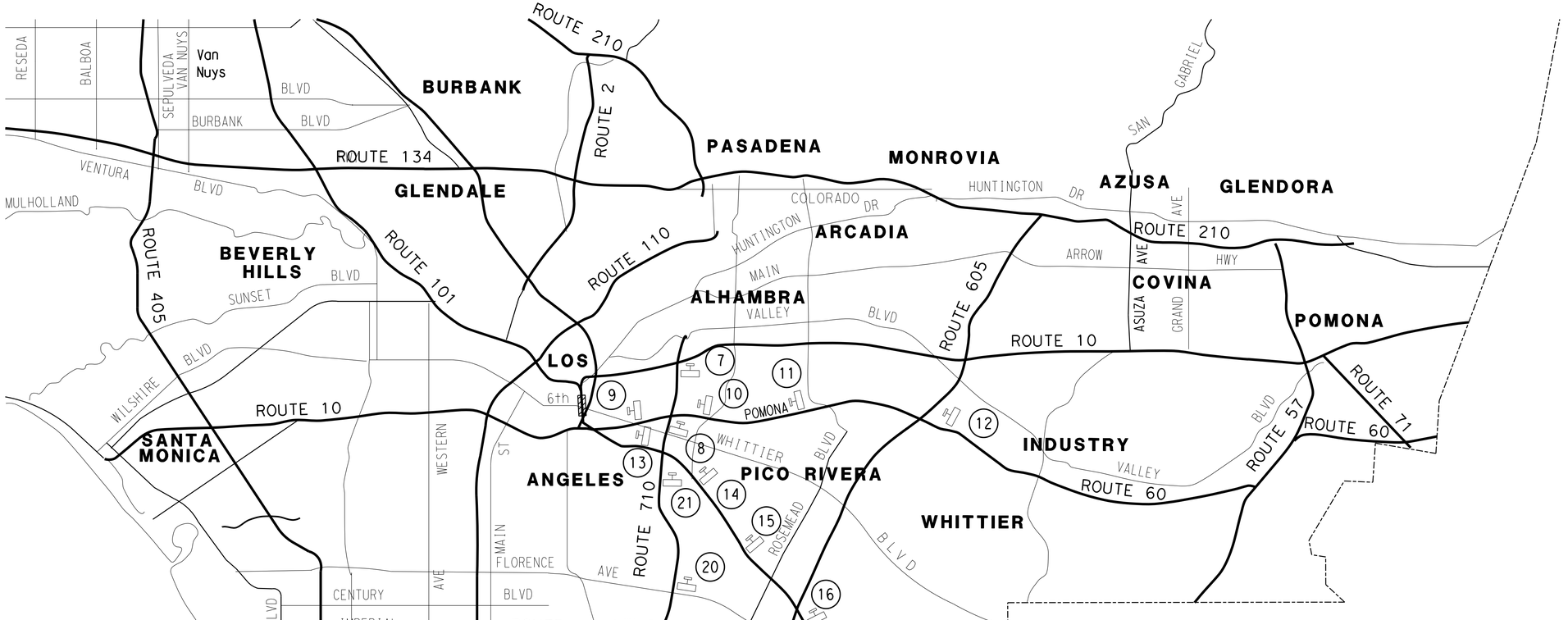
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TAYLOR HENDERSON
No. 81237
Exp. 9/30/17
CIVIL
STATE OF CALIFORNIA

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CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015



LEGEND:

ROAD CLOSED

PCMS

APPROVED FOR MOTORIST INFORMATION WORK ONLY

100% SUBMITTAL
MOTORIST INFORMATION PLAN
NB PCMS LOCATIONS

NO SCALE

MI-3

REVISED BY	DATE REVISED
TAYLOR HENDERSON	TERENCE PAO

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STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101	S0.6		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TAYLOR HENDERSON
No. 81237
Exp. 9/30/17
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LOS ANGELES, CA 90071

CITY OF LOS ANGELES
DEPT OF PUBIC WORKS BOE
1149 BROADWAY, SUITE 700
LOS ANGELES, CA 90015

PCMS No.	LOCATIONS *	PRIMARY MESSAGE		SECONDARY MESSAGE		REMARKS
		FIRST FLASH	SECOND FLASH	FIRST FLASH	SECOND FLASH	
(7)	NB Rte 710 SOUTH OF Rte 10	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 DETOUR	USE WEST 10	
(8)	NB Rte 710 SOUTH OF Rte 60	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 DETOUR	CONTINUE TO WEST 10	
(9)	WB Rte 60 WEST OF Rte 710	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 DETOUR	DETOUR WEST 10 TO N 110	
(10)	WB Rte 60 EAST OF Rte 710	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED AT SR 60	DETOUR N 710 TO W 10	
(11)	WB Rte 60 AT ROSEMEAD Blvd UC	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED AT SR 60	DETOUR N 710 TO W 10	
(12)	WB Rte 60 EAST OF Rte 605	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED AT SR 60	DETOUR N 710 TO W 10	
(13)	NB Rte 5 WEST OF Rte 710	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED	USE W 10 TO N 110	
(14)	NB Rte 5 AT ATLANTIC Blvd	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED AT SR 60	DETOUR N 710 TO W 10	
(15)	NB Rte 5 AT PARAMOUNT Blvd	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED AT SR 60	DETOUR N 710 TO W 10	
(16)	NB Rte 5 EAST OF Rte 605	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED AT RT-60	DETOUR N 710 TO W 10	
(17)	NB Rte 5 SOUTH OF Rte 91	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED AT SR 60	DETOUR N 710 TO W 10	
(18)	NB Rte 710 SOUTH OF Rte 91	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED AT SR 60	CONTINUE N 710 TO W 10	
(19)	NB Rte 710 SOUTH OF Rte 105	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED AT SR 60	CONTINUE N 710 TO W 10	
(20)	NB Rte 710 AT FLORENCE Ave	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED AT SR 60	CONTINUE N 710 TO W 10	
(21)	NB Rte 710 SOUTH OF Rte 5	N 101 BRIDGE WORK	JAN 9 SR 60 TO I-10	N 101 CLOSED AT SR 60	CONTINUE N 710 TO W 10	

NOTES:

1.) PCMS LOCATIONS TO BE CONFIRMED BY THE ENGINEER BEFORE THE ACTUAL CLOSURE.

2.) ACTIVATE PCMS 2 WEEKS PRIOR TO CLOSURE.

APPROVED FOR MOTORIST INFORMATION WORK ONLY

100% SUBMITTAL
MOTORIST INFORMATION PLAN
NB PCMS LOCATIONS

NO SCALE

MI-4

REVISED BY | DATE REVISED

TAYLOR HENDERSON | TERENCE PAO

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: TERENCE PAO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => $DATE$ | TIME PLOTTED => $TIME$
00-00-00

BORDER LAST REVISED 7/2/2010 | USERNAME =>$USER$ | DGN FILE => $FILE$ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1819 | PROJECT NUMBER & PHASE 07000004481