

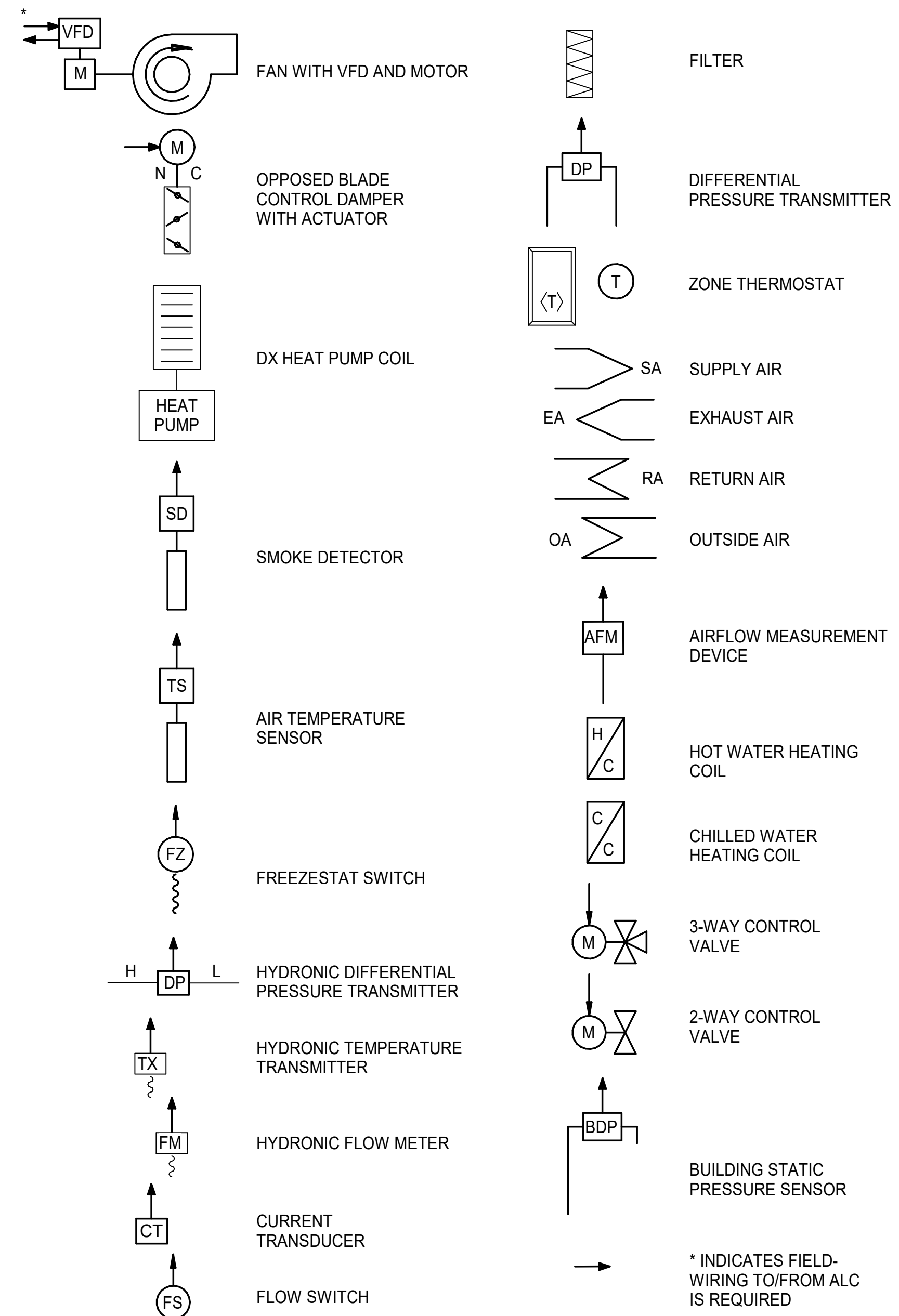
# ABBREVIATIONS & ACRONYMS

2P	TWO-POSITION (CONTROL SIGNAL)	M&C	MONITORING & CONTROL (SOFTWARE)
ADJ	ADJUSTABLE/ADJUSTMENT	MS	MOTOR STARTER
AI	ANALOG INPUT	N/A	NOT APPLICABLE
ALM	ALARM	NC	NORMALLY CLOSED
AO	ANALOG OUTPUT	NCI	NETWORK CONFIGURATION INPUT
BI	BINARY INPUT	NO	NORMALLY OPEN
BLDG	BUILDING	NVI	NETWORK VARIABLE INPUT
BO	BINARY OUTPUT	NVO	NETWORK VARIABLE OUTPUT
BYP	BYPASS	OCC	OCCUPIED
C	COMMAND (MODULATING CONTROL SIGNAL)	ODT	ON DELAY TIMER
CLD	CLOSED	OL	OVERLOAD
CLG	COOLING	OPN	OPEN
COM	COMMON	OVRD	OVERRIDE
COV	CHANGE OF VALUE	P	PRESSURE
CSR	CURRENT SENSING RELAY	PID	PROPORTIONAL INTEGRAL DERIVATIVE (CONTROL)
CT	CURRENT TRANSFORMER/SWITCH	PWR	POWER
D	DAMPER	R	RELAY
DB	DEADBAND	REV	REVERSE (CONTROL ACTION)
DDC	DIRECT DIGITAL CONTROL(LER)	RM	ROOM
DIFF	DIFFERENCE	RQST	REQUEST
DIR	DIRECT (CONTROL ACTION)	RST	RESET
DIS	DISABLE	RT	RATE
DISP	DISPLAY	S	STATUS
EA	EXHAUST AIR	SNVT	STANDARD NETWORK VARIABLE TYPE
ECM	ELECTRICALLY COMMUTATED MOTOR	SO	SHUT-OFF
EF	EXHAUST FAN	SP	SETPOINT
ENA	ENABLE	SS	START/STOP COMMAND
F	FLOW	STAT	THERMOSTAT
FACP	FIRE ALARM CONTROL PANEL	SYS	SYSTEM
FL	FAIL IN LAST POSITION	SCHD	SCHEDULER
FLT	FILTER	T	TEMPERATURE
HL	HIGH LIMIT	TRB	TROUBLE
HTG	HEATING	TSTAT	THERMOSTAT
I/O	INPUT/OUTPUT	UNOCC	UNOCCUPIED
LDP	LOCAL DISPLAY PANEL	VFD	VARIABLE FREQUENCY DRIVE
LL	LOW LIMIT	XFMR	TRANSFORMER
LVG	LEAVING	ZN	ZONE
M	MOTOR or MAIN		

## NOTES:

- FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS REFER TO DRAWING M-001.
- REFER TO ELECTRICAL FOR NEW LINE-VOLTAGE POWER EQUIPMENT, WIRING, AND CONDUIT.
- LOW-VOLTAGE POWER WIRING AND CONDUIT FROM NEW 120V/24V POWER SUPPLIES, CONTROL WIRING AND CONDUIT FROM CONTROLLERS TO END CONTROL DEVICES, AND COMMUNICATION WIRING AND CONDUIT BETWEEN NETWORKED ALC EQUIPMENT MUST BE FURNISHED AND INSTALLED BY CONTROLS SUBCONTRACTOR FOR A COMPLETE AND OPERATING SYSTEM. REFER TO SPEC. SECTION 26 05 33.13 FOR LOW-VOLTAGE POWER, CONTROL, AND COMMUNICATION CONDUIT SPECIFICATIONS. REFER TO SPEC. SECTION 23 09 00 FOR LOW-VOLTAGE POWER, CONTROL, AND COMMUNICATION CONDUCTOR SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE MECHANICAL SUBCONTRACTOR TO COORDINATE THE LOCATION OF ALL CONTROLS EQUIPMENT AND CONTROL DEVICES WITH THE CONTROLS SUBCONTRACTOR AND THE ELECTRICAL SUBCONTRACTOR AND NOTIFY THE CONTROLS SUBCONTRACTOR AND ELECTRICAL SUBCONTRACTOR OF CONDUIT ROUTING PREFERENCES AND POWER SUPPLY LOCATION PREFERENCES.
- CONTROLS SUBCONTRACTOR MUST FURNISH AND INSTALL WIRE AND CONDUIT FOR ALL SMOKE DETECTORS: FROM DEVICE TO FIRE ALARM CONTROL SYSTEM ADDRESSABLE LOOP, FROM DEVICE TO ALC, AND FROM FIRE ALARM CONTROL LOOP TO FAN MOTOR.
- CONTROLS SUBCONTRACTOR MUST FURNISH AND INSTALL WIRE AND CONDUIT REQUIRED TO CONNECT INDIVIDUAL MODULES OF FIELD-ASSEMBLED EQUIPMENT.
- ALL CONTROL DEVICES EXPOSED TO WEATHER MUST BE INSTALLED IN WEATHERPROOF ENCLOSURES.

## HVAC CONTROL SYMBOL LEGEND



## "HVAC CONTROLS" GENERAL NOTES:

- THE CONTROL DIAGRAMS AND SCHEMATICS ILLUSTRATE THE FUNCTIONAL REQUIREMENTS AND CONTROL RELATIONSHIPS. ALL ACCESSORIES AND DEVICES MAY NOT BE SHOWN IN DETAIL.
- THE SPECIFICATIONS SHOULD BE CONSULTED FOR DETAILED REQUIREMENTS.
- BUILDING CONTROL SYSTEM MUST BE COMPLETELY OPERATIONAL BEFORE BUILDING COMMISSIONING CAN TAKE PLACE.

CONTROLS CONDUIT SCHEDULE				
CONDUCTOR TYPE	EXPOSED - NOT SUBJECT TO DAMAGE	EXPOSED - SUBJECT TO DAMAGE	CONCEALED	
	MECH/ELEC/FIRE RISER ROOMS	ROOF & ELSEWHERE 0-36" AFF	CEILING PLENUM	WALL PLENUM
LOW-VOLTAGE POWER/CONTROL WIRE	EMT OR RMC	RMC	NO CONDUIT REQUIRED	EMT OR RMC
ETHERNET WIRE/CABLE	EMT OR RMC	RMC	EMT	EMT OR RMC
OTHER COMMUNICATION WIRE/CABLE	EMT OR RMC	RMC	INNERDUCT OR EMT	EMT OR RMC
LINE-VOLTAGE POWER WIRING	PROVIDED BY DIV. 26; REFER TO ELECTRICAL	PROVIDED BY DIV. 26; REFER TO ELECTRICAL	PROVIDED BY DIV. 26; REFER TO ELECTRICAL	PROVIDED BY DIV. 26; REFER TO ELECTRICAL

## NOTES:

- ALL CONDUCTORS INSTALLED IN A WALL CAVITY OR CEILING PLENUM SHALL BE PLENUM-RATED.
- ALL CONDUCTORS INSTALLED IN CEILING PLENUM SHALL BE TIED OFF TO NEW OR EXISTING SUPPORTS; NOT LAID ON CEILING TILES.
- ALL CONDUIT SHOWN HERE SHALL BE FURNISHED AND INSTALLED BY CONTROLS SUBCONTRACTOR UNLESS OTHERWISE SPECIFIED EITHER IN THIS TABLE OR ON A PLAN.
- REFER TO SPEC. SECTION 26 05 33.13 FOR LOW-VOLTAGE POWER, CONTROL, AND COMMUNICATION CONDUIT SPECIFICATIONS. REFER TO SPEC. SECTION 23 09 00 FOR LOW-VOLTAGE POWER, CONTROL, AND COMMUNICATION CONDUCTOR SPECIFICATIONS.
- SUBCONTRACTOR SHALL SUBMIT REQUEST FOR APPROVAL TO INSTALL EXPOSED CONDUIT IN FINISHED AREAS. CONDUIT REQUIRED FOR EXPOSED, FINISHED AREAS IS RIGID METAL CONDUIT UNLESS APPROVAL IS PROVIDED BY ENGINEER TO USE EMT. SUBCONTRACTOR SHALL PAINT EXPOSED CONDUIT IN FINISHED AREAS TO MATCH COLOR OF ADJACENT SURFACE.
- MAINTAIN 6 INCHES (MIN.) CLEARANCE BETWEEN CONDUIT AND OTHER MECH. PIPING AND TUBING. MAINTAIN 1 INCH (MIN.) CLEARANCE BETWEEN CONDUIT AND DUCTWORK. OFFSETS APPLY TO SURFACE OF INSULATION ON INSULATED PIPING.
- NEW HORIZONTAL CONDUIT RUNS SHALL BE ROUTED OVERHEAD AND AS CLOSE TO STRUCTURE AS POSSIBLE. DO NOT FLOOR-MOUNT NEW CONDUIT.
- OUTER CASING OF ALL NEW CONDUIT PENETRATING FLOOR OR CEILING SHALL BE SEALED.
- FLEX CONDUIT IS ALLOWED AT ALL DEVICE TERMINATIONS.

Sheet Title

**MECHANICAL CONTROLS  
LEGEND AND GENERAL  
NOTES**

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