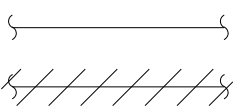

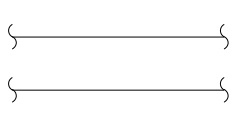
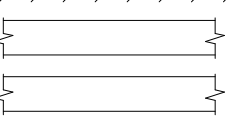
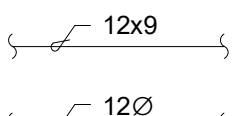
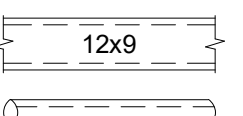
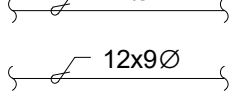
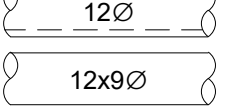
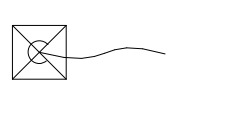

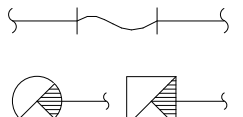
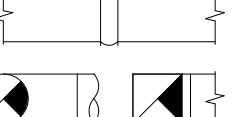
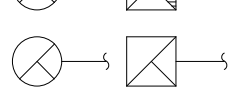
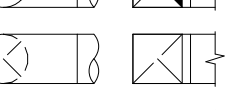
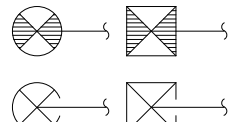
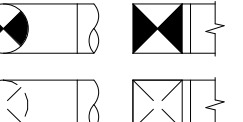
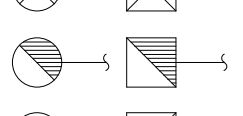
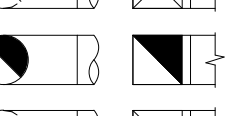
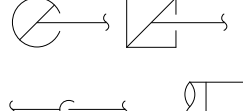
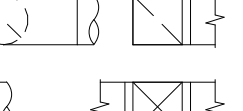
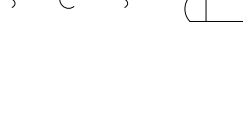
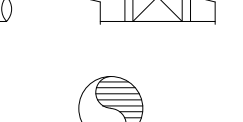
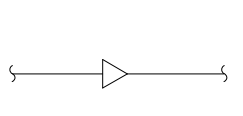
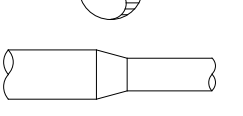
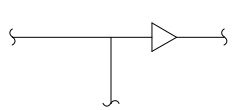
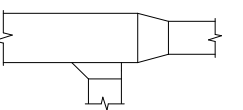
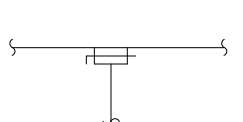
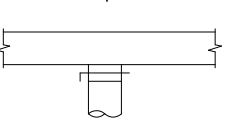
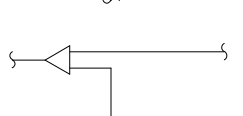
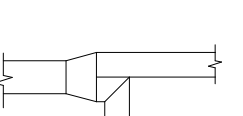
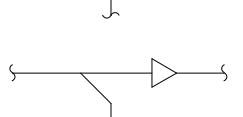
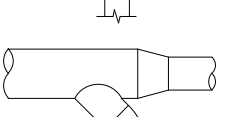
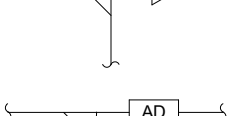
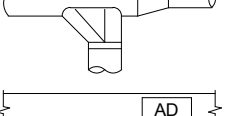
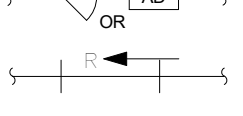
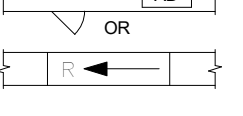
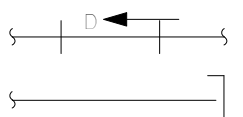
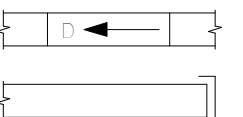

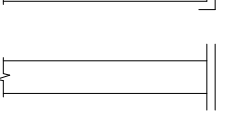

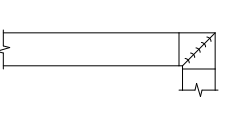
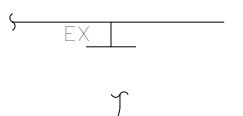
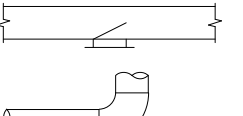
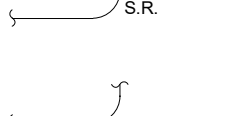
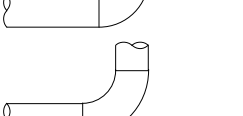
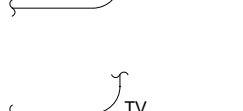
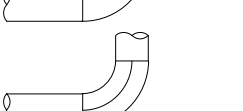
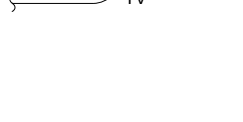
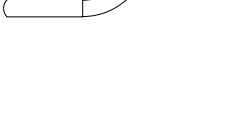
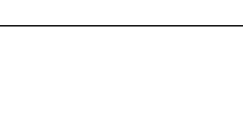

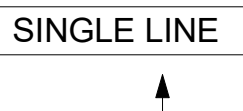
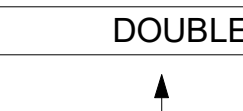
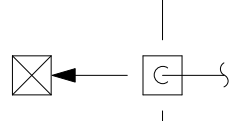
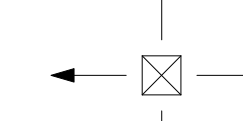
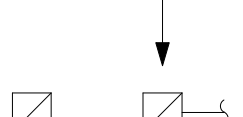
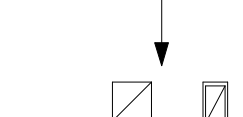

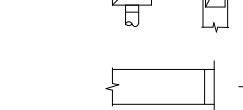
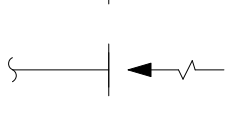
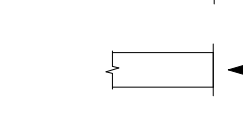








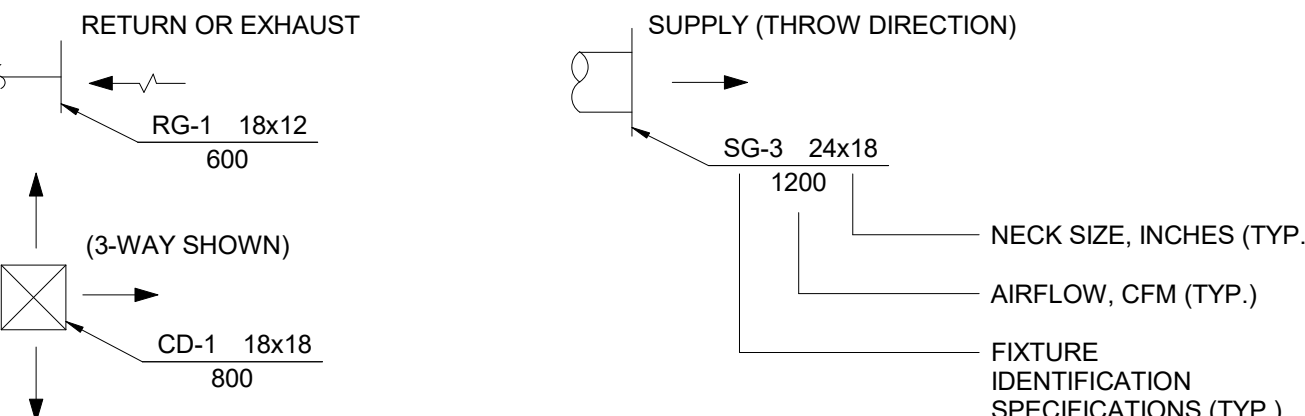
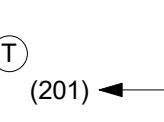
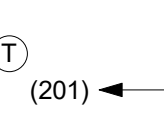
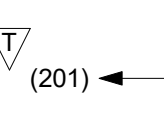
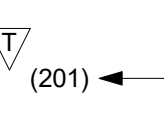




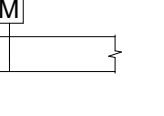
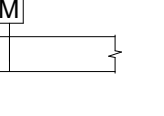
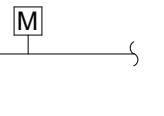
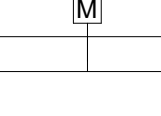
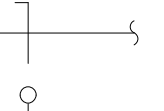
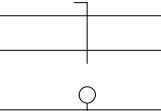
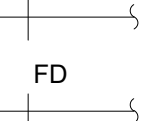
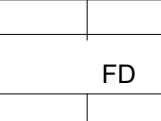
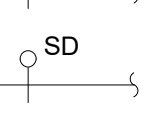
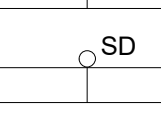
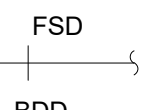
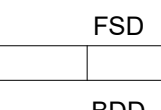
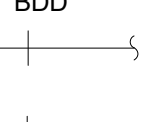
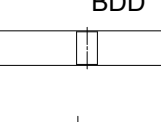
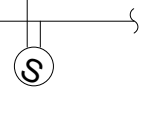
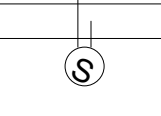


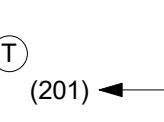
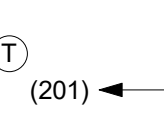
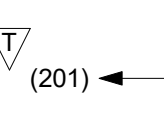
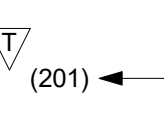




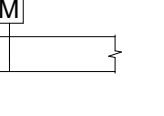
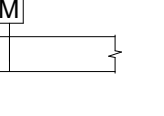
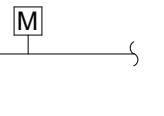
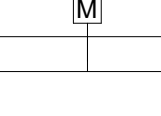
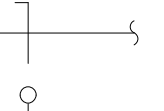
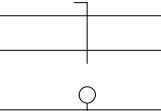
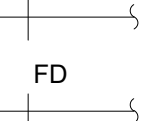
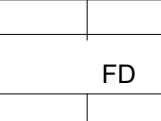
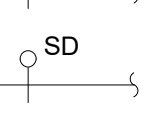
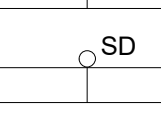
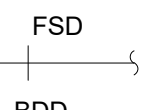
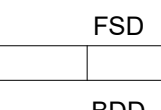
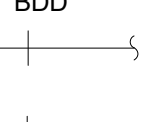
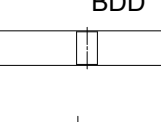
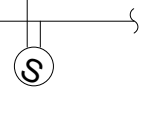
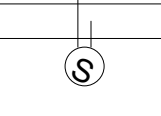


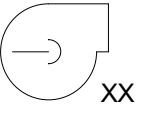
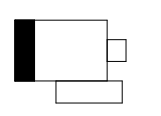
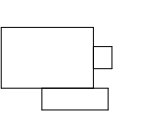
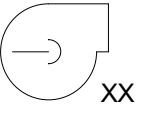
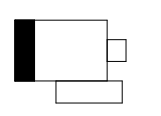
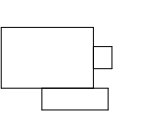
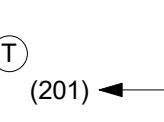
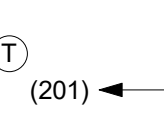
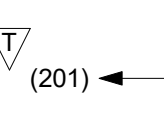
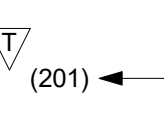




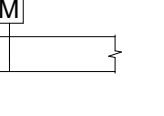
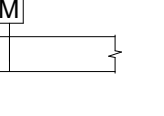
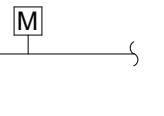
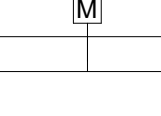
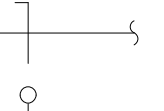
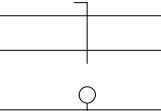
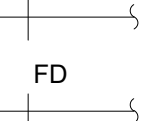
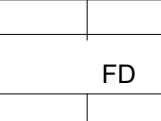
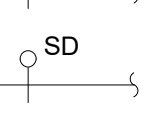
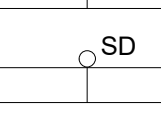
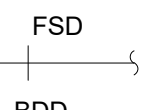
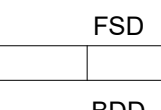
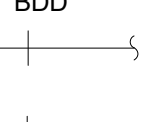
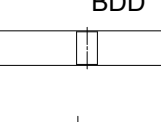
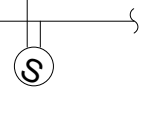
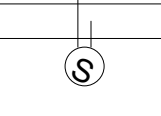


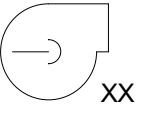
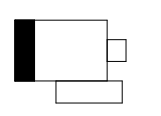
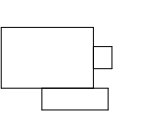
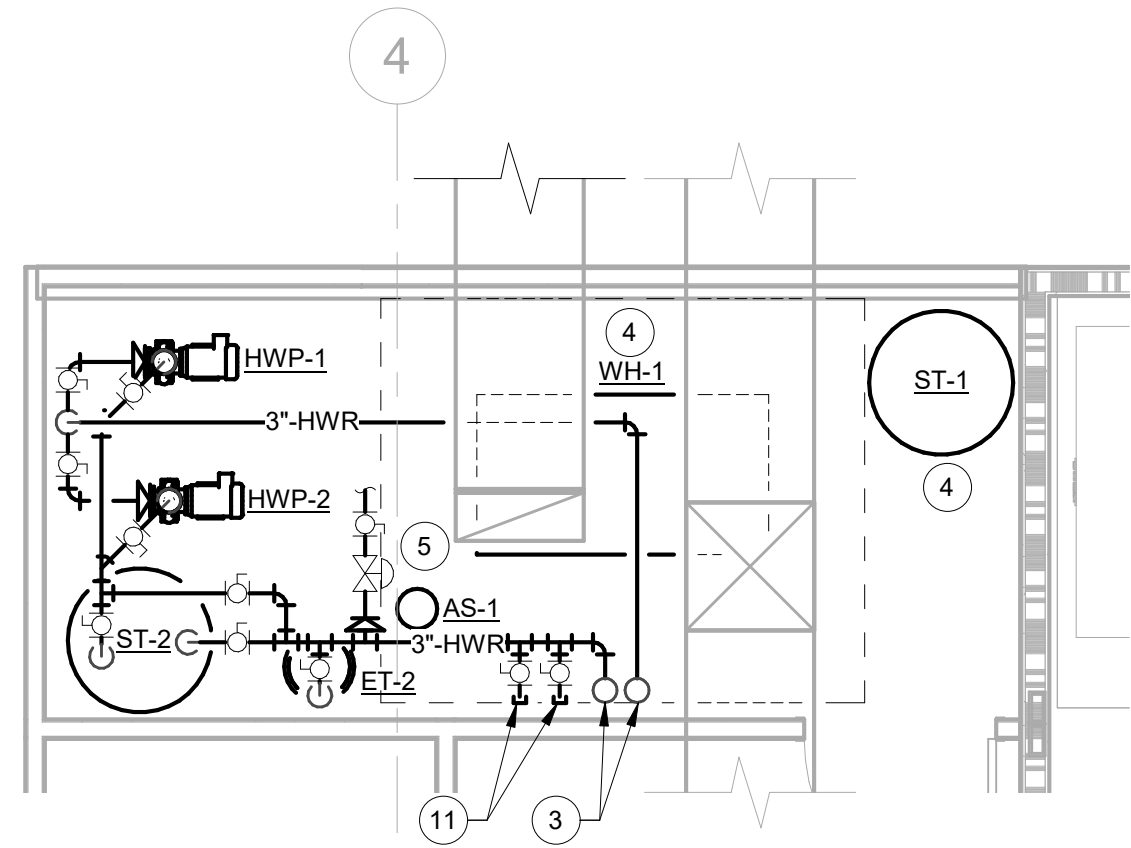
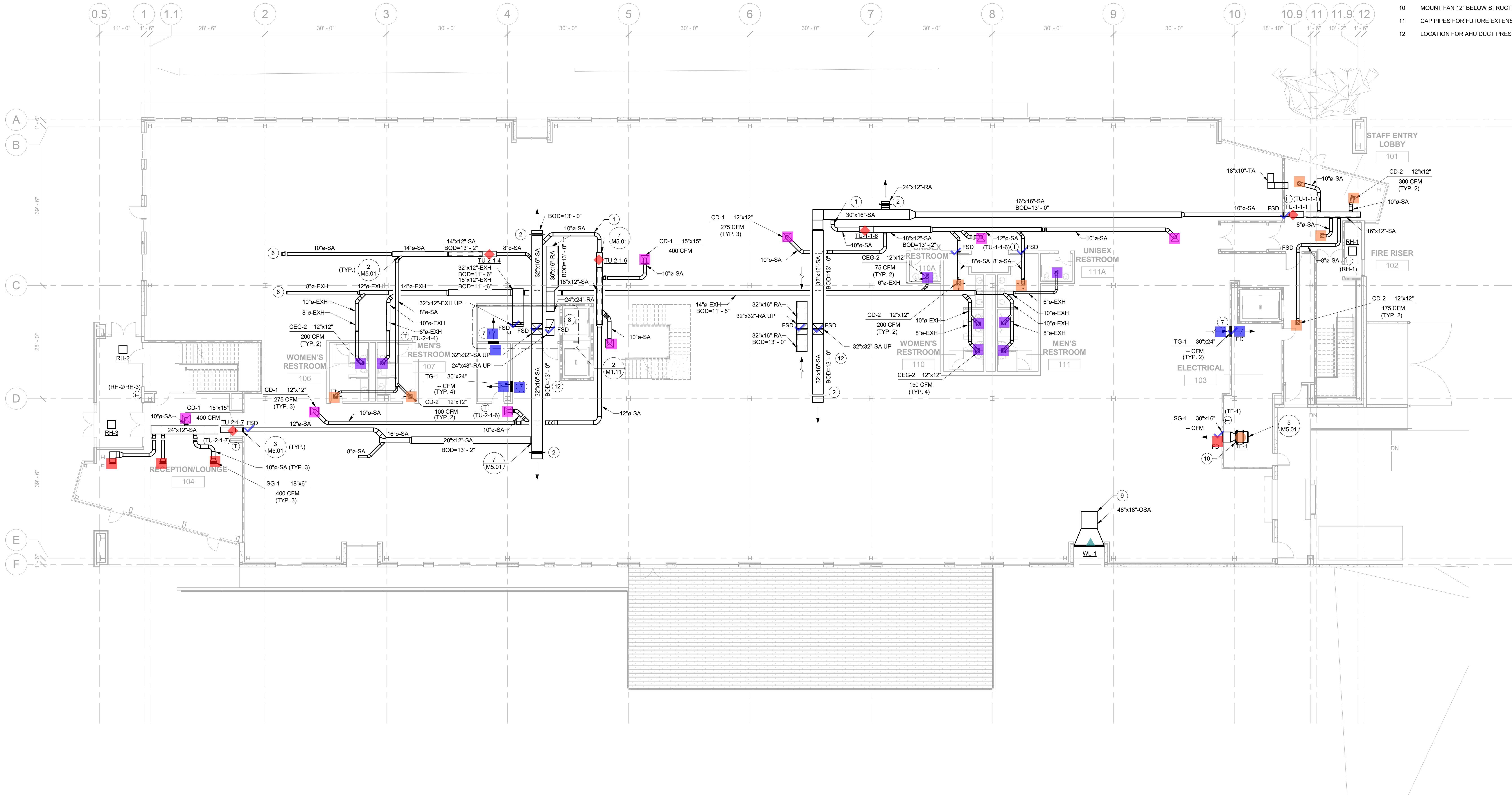


ABBREVIATIONS				DUCTWORK SYMBOLS				AIR OUTLET/INLET DESIGNATION																																																		
ABV AC ACC ACFM ACU AD AFD AFF AH AHU ANSI AMP ARF BDD BF BHP BLO BLR BOD BOP BOT BOTT BOM BTU C CA CC CD CFCI CFM CH CKT CIP CO CONN CND CPLG CRU CSST CT CU CV CVR dB (D) DB DBT DC DDC DN DEH DER DIA (E) EA EF EFF ELEV EPO ET EWC EXH (F) FCU FCO FD FF FFE FL FLT FN FOB FOT FP FPM FPS FT GA GAL GCO GEN GD GPH GPM HC HD HE HG HOR HP HR HU HX HZ ID IE KW KWH KVA LAV LBS LD LPD (M) MAH MAX MCC MIN MISC MM MOT MP MUA	ABOVE ACTIVATED CARBON FILTER OR ALTERNATING CURRENT AIR COOLED CHILLER ACTUAL CUBIC FEET/MINUTE AIR CONDITIONING UNIT ACCESS DOOR ADJUSTABLE FREQUENCY DRIVE ABOVE FINISHED FLOOR AIR HANDLER, GENERAL AIR HANDLING UNIT AMERICAN NATIONAL STANDARDS INSTITUTE AMPERE (AMP/AMPS) ABOVE RAISED FLOOR BACK DRAFT DAMPER BUTTERFLY VALVE BRAKE HORSEPOWER BLOWER BOILER BOTTOM OF DUCT BOTTOM OF PIPE BOTTOM OF TRAY BOTTOM BILL OF MATERIAL BRITISH THERMAL UNIT CENTIGRADE OR COMPRESSOR COMPRESSED AIR COOLING COIL CEILING DIFFUSER CONTRACTOR FURNISHED CONTRACTOR INSTALL CUBIC FEET PER MINUTE CHILLER CIRCUIT COIL PUMP CLEANOUT CONNECTION CONDENSATE COUPLING CONDENSATE RETURN UNIT CORRUGATED STAINLESS STEEL TUBING COOLING TOWER CONDENSATE UNIT CONSTANT VOLUME TERMINAL UNIT CONSTANT VOLUME REHEAT TERMINAL UNIT DECIBEL DEMOLISH DRY BULB DRY BULB TEMPERATURE DIRECT CURRENT DIRECT DIGITAL CONTROL DOWN DEHUMIDIFIER DEGRADATOR DRINKING FOUNTAIN DIAMETER (E) EXISTING EA EACH EF EXHAUST FAN EFF EFFICIENCY ELEV ELEVATION EPO EMERGENCY POWER OFF ET EXPANSION TANK EWC ELECTRIC WATER COOLER EXH EXHAUST, GENERAL (F) FUTURE FAHRENHEIT FAN COIL UNIT FLOOR CLEANOUT FLOOR DRAIN FINISHED FLOOR FINISHED FLOOR ELEV FINISHED FLOOR ELEV VELOCITY VERTICAL FILTER FAN FLAT ON BOTTOM FLAT ON TOP FAN POWERED TERMINAL UNIT FEET PER MINUTE FEET PER SECOND FOOT OR FEET GA GAGE OR GAUGE, OR GENERAL AIR GALLONS GRADE CLEANOUT GENERATOR GROUND DIFFUSER GALLONS PER HOUR GALLONS PER MINUTE HEATING COIL HEAD HEAT EXHAUST MERCURY HORIZONTAL HORSEPOWER HOURS HUMIDIFIER HEAT EXCHANGER HYDRAULIC HERTZ (FREQUENCY) ID INSIDE DIAMETER IE INVERT ELEVATION KW KILOWATT KWH KILOWATT HOUR KVA KILOVOLT-AMPERE LAV LAVATORY LBS POUNDS LD LEAK DETECTION LPD LOW POINT DRAIN (M) MECHANICAL MAH MAKEUP AIR HANDLER MAX MAXIMUM MCC MOTOR CONTROL CENTER MIN MINIMUM MISC MISCELLANEOUS MM MULTI-MEDIA FILTER MOT MOTOR MP METERING PUMP MUA MAKEUP AIR	(N) NEW N/A NOT APPLICABLE NC NOISE CRITERIA OR NORMALLY CLOSED NIC NOT IN CONTRACT NO NORMALLY OPEN NTS NOT TO SCALE OA OUTSIDE AIR OBD OPPOSABLE BLADE DAMPER OFCI OWNER FURNISHED CONTRACTOR INSTALL OFOI OWNER FURNISHED OWNER INSTALL OD OUTSIDE DIAMETER OL OVERLOAD RELAY OSA OUTSIDE SUPPLY AIR OZ OUNCE PD PRESSURE DROP PH PHASE PIV POST INDICATOR VALVE PL PLUG VALVE POC POINT OF CONNECTION PPM PARTS PER MILLION PSI POUNDS PER SQUARE INCH PSIA PSI, ABSOLUTE PSIG PSI, GAUGE QT QUART QTY QUANTITY (R) RELOCATE RA RETURN AIR / RELIEF AIR RAH RECIRC. AIR HANDLER REQ REQUIRED REV REVISION RG RETURN GRILLE RH RELATIVE HUMIDITY RM ROOM RPM REVOLUTIONS PER MINUTE RTU ROOF TOP UNIT SA SUPPLY AIR SC SCRUBBER SCFM STANDARD CUBIC FEET/MINUTE SD SUPPLY DIFFUSER SEC SECOND SG SUPPLY GRILLE SLM STANDARD LITERS/MINUTE SM SHEET METAL SP STATIC PRESSURE SPEC SPECIFICATION SS STAINLESS STEEL STD STANDARD TB THRUST BLOCK TD TEMPERATURE DIFFERENCE TEMP TEMPERATURE TF TRANSFER FAN TK TANK T.O. TOP OF TOD TOP OF DUCT TOP TOP OF PIPE TOS TOP OF STEEL (SUPPORT) TSTAT THERMOSTAT TU TERMINAL UNIT TYP TYPICAL UF ULTRA FILTRATION UNIT UH UNIT HEATER UNO UNLESS NOTED OTHERWISE UR URINAL V VOLT VAC VACUUM VAR VARIABLE VAV VARIABLE AIR VOLUME VD VOLUME DAMPER VEL VELOCITY VERT VERTICAL VP VACUUM PUMP VV VARIABLE VOLUME TERMINAL UNIT VVR VARIABLE VOLUME REHEAT TERMINAL UNIT W WITH WATT WB WET-BULB WBT WET-BULB TEMPERATURE WC WATER CLOSET W.C. WATER COLUMN WP WEATHERPROOF WS WATER SOFTENER WTR WATER TEMPERATURE RISE WTD WATER TEMPERATURE DROP WX WET EXHAUST XFMR TRANSFORMER YD YARD YR YEAR Z ZONE	SINGLE LINE DOUBLE LINE DESCRIPTION                                                                      	EXAMPLE:  HVAC CONTROL SYMBOLS <table><tr><th>SINGLE LINE</th><th>DOUBLE LINE</th><th>DESCRIPTION</th></tr><tr><td></td><td></td><td>ROOM THERMOSTAT, PNEUMATIC OR ELECTRONIC (UNIT CONTROLLED)</td></tr><tr><td></td><td></td><td>ROOM THERMOSTAT, PENDENT MOUNT (UNIT CONTROLLED)</td></tr><tr><td></td><td></td><td>CARBON DIOXIDE SENSOR</td></tr><tr><td></td><td></td><td>ROOM HUMIDISTAT</td></tr><tr><td></td><td></td><td>PHOTOHELIC</td></tr><tr><td></td><td></td><td>ACTUATED DAMPER</td></tr><tr><td></td><td></td><td>HAND/VOLUME DAMPER</td></tr><tr><td></td><td></td><td>BLAST GATE DAMPER</td></tr><tr><td></td><td></td><td>FIRE DAMPER</td></tr><tr><td></td><td></td><td>SMOKE DAMPER</td></tr><tr><td></td><td></td><td>FIRE/SMOKE DAMPER</td></tr><tr><td></td><td></td><td>BACK DRAFT DAMPER</td></tr><tr><td></td><td></td><td>SMOKE DETECTOR</td></tr></table>	SINGLE LINE	DOUBLE LINE	DESCRIPTION			ROOM THERMOSTAT, PNEUMATIC OR ELECTRONIC (UNIT CONTROLLED)			ROOM THERMOSTAT, PENDENT MOUNT (UNIT CONTROLLED)			CARBON DIOXIDE SENSOR			ROOM HUMIDISTAT			PHOTOHELIC			ACTUATED DAMPER			HAND/VOLUME DAMPER			BLAST GATE DAMPER			FIRE DAMPER			SMOKE DAMPER			FIRE/SMOKE DAMPER			BACK DRAFT DAMPER			SMOKE DETECTOR	EQUIPMENT SYMBOLS <table><tr><th>SYMBOL</th><th>DESCRIPTION</th><th>SYMBOL</th><th>DESCRIPTION</th></tr><tr><td></td><td>CENTRIFUGAL FAN</td><td></td><td>VAV OR CV BOX WITH RE-HEAT</td></tr><tr><td></td><td>VAV OR CV BOX</td><td></td></tr></table>	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		CENTRIFUGAL FAN		VAV OR CV BOX WITH RE-HEAT		VAV OR CV BOX	
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	VAV OR CV BOX																																																									



2 ENLARGED MECHANICAL ROOM PLAN
M1.11 SCALE: 1/4" = 1'-0"



1 MECHANICAL FIRST LEVEL PLAN
M1.11 SCALE: 3/32" = 1'-0"

- GENERAL NOTES**
- A SEE SHEET M0.01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 - B TEMPORARILY HANG DIFFUSERS WITH WIRE IN AREAS WHERE THERE WILL NOT BE A CEILING UNTIL THE TENANT IMPROVEMENT PHASE. LOCATIONS CAN BE APPROXIMATE.
- KEYED NOTES**
- 1 FUTURE EXIT CORRIDOR WALL AT THIS LOCATION. FUTURE FIRE/SMOKE DAMPER WILL BE INSTALLED.
 - 2 PROVIDE VOLUME DAMPER AND BALANCE TO 1,500 CFM.
 - 3 ROUTE 3"-HWS AND 3"-HWR PIPING UP IN SHAFT. PIPING CONTINUES ON SHEET M1.21.
 - 4 PLUMBING EQUIPMENT SHOWN FOR COORDINATION.
 - 5 CONNECT 1"-CW TO DOMESTIC COLD WATER PIPING IN MECHANICAL ROOM. PROVIDE SHUTOFF VALVE, REDUCED PRESSURE BACKFLOW DEVICE, AND PRESSURE REDUCING VALVE. SET PRV TO 48 PSI.
 - 6 PROVIDE VOLUME DAMPER AND BALANCE TO 400 CFM.
 - 7 MOUNT TRANSFER GRILLE 12" BELOW STRUCTURE.
 - 8 EXTEND DUCT 10" DOWN BELOW CEILING. PROVIDE WIRE.
 - 9 CAP DUCT FOR FUTURE EXTENSION.
 - 10 MOUNT FAN 12" BELOW STRUCTURE.
 - 11 CAP PIPES FOR FUTURE EXTENSION TO KITCHEN MAKEUP AIR.
 - 12 LOCATION FOR AHU DUCT PRESSURE SENSOR.



PROJECT TITLE: LAM GREENFIELD OFFICE BUILDING
LAM RESEARCH
11155 SW LEVETON DR.
TUALATIN, OR 97062
CLIENT:

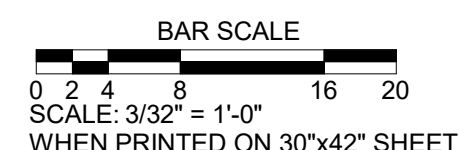
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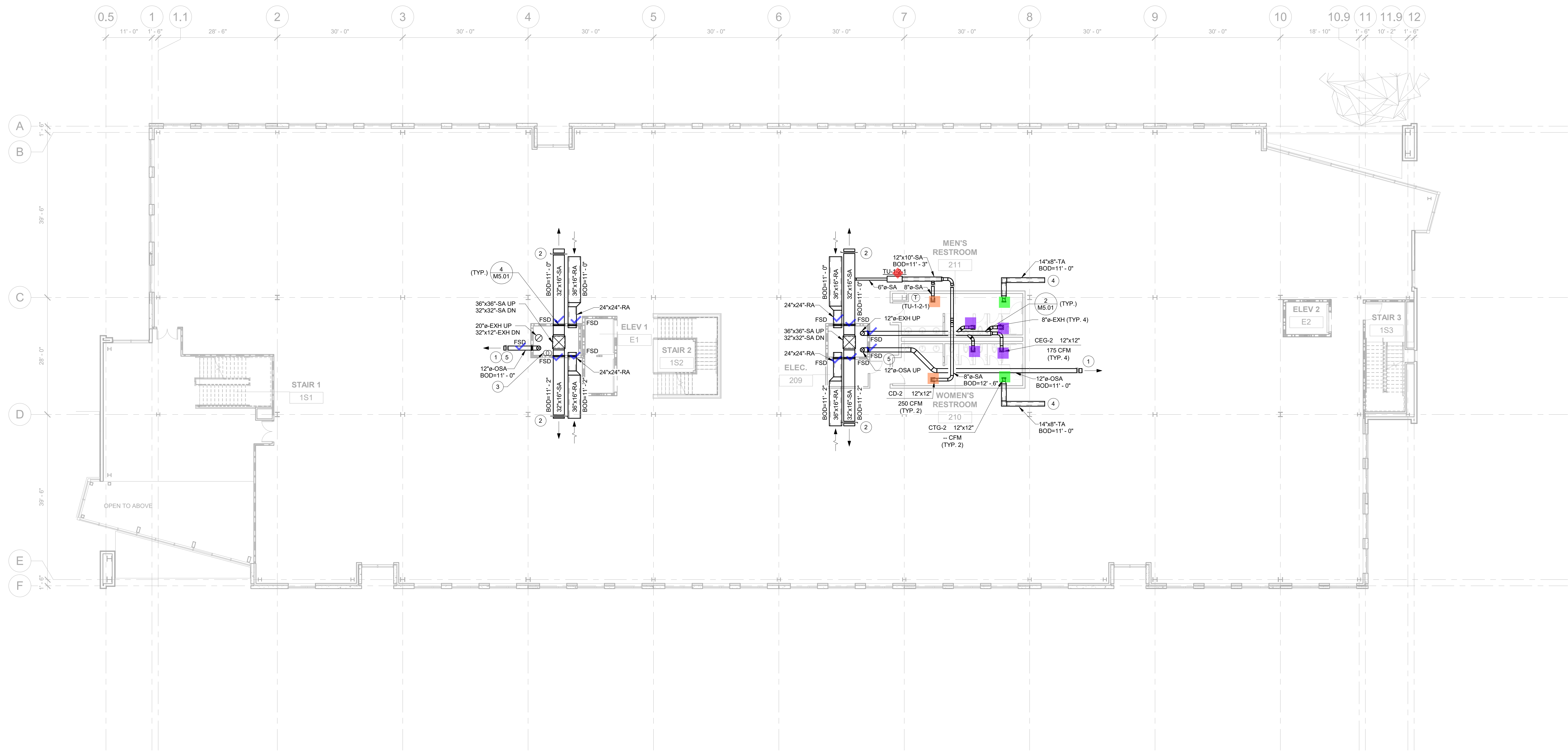
Sheet Title:
MECHANICAL FIRST
LEVEL PLAN

Sheet Number:

M1.11

Proj No: CC22450B





- GENERAL NOTES**
- A SEE SHEET M0.01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- KEYED NOTES**
- 1 PROVIDE VOLUME DAMPER AND BALANCE TO 600 CFM.
 - 2 PROVIDE VOLUME DAMPER AND BALANCE TO 1,500 CFM.
 - 3 ROUTE BOTH 3"-HWR PIPING UP IN SHAFT. PIPING CONTINUES ON SHEET M1.31. ROUTE BOTH 3"-HWR PIPING DOWN THROUGH BOTTOM OF SHAFT AND INTO MECHANICAL ROOM ON SHEET M1.11.
 - 4 TRANSFER AIR DUCT TERMINATES 6" BELOW STRUCTURE.
 - 5 LOCATION FOR DOAS DUCT PRESSURE SENSOR.



PROJECT TITLE: LAM GREENFIELD OFFICE BUILDING
LAM RESEARCH
11155 SW LEVETON DR.
TUALATIN, OR 97062
CLIENT:

REV.	DESCRIPTION	DATE	APPR.
0	ISSUED FOR PERMIT	12/20/22	CCE

Sheet Title:
MECHANICAL
SECOND LEVEL
PLAN

Sheet Number:

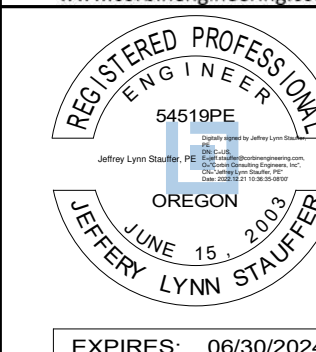
M1.21

Proj No: CC22450B

1
M1.21
MECHANICAL SECOND LEVEL PLAN

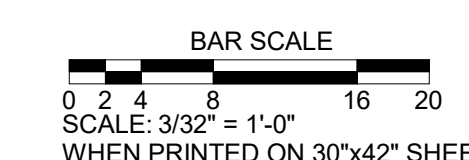
BAR SCALE
0 2 4 8 16 20
SCALE: 3/32" = 1'-0"
WHEN PRINTED ON 30"x42" SHEET





A SEE SHEET M0.01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES

- 1 PROVIDE VOLUME DAMPER AND BALANCE TO 600 CFM.
- 2 PROVIDE VOLUME DAMPER AND BALANCE TO 1,500 CFM.
- 3 ROUTE BOTH 3"-HWR PIPING UP/DOWN IN SHAFT. PIPING CONTINUES ON SHEETS M1.21 AND M1.31.
- 4 TRANSFER AIR DUCT TERMINATES 6" BELOW STRUCTURE



PROJECT TITLE: LAM GREENFIELD OFFICE BUILDING

CLIENT: LAM RESEARCH
11155 SW LEVETON DR.
TUALATIN, OR 97062

[illegible]

Sheet Title:
MECHANICAL THIRD
LEVEL PLAN

Sheet Number:

M1.31

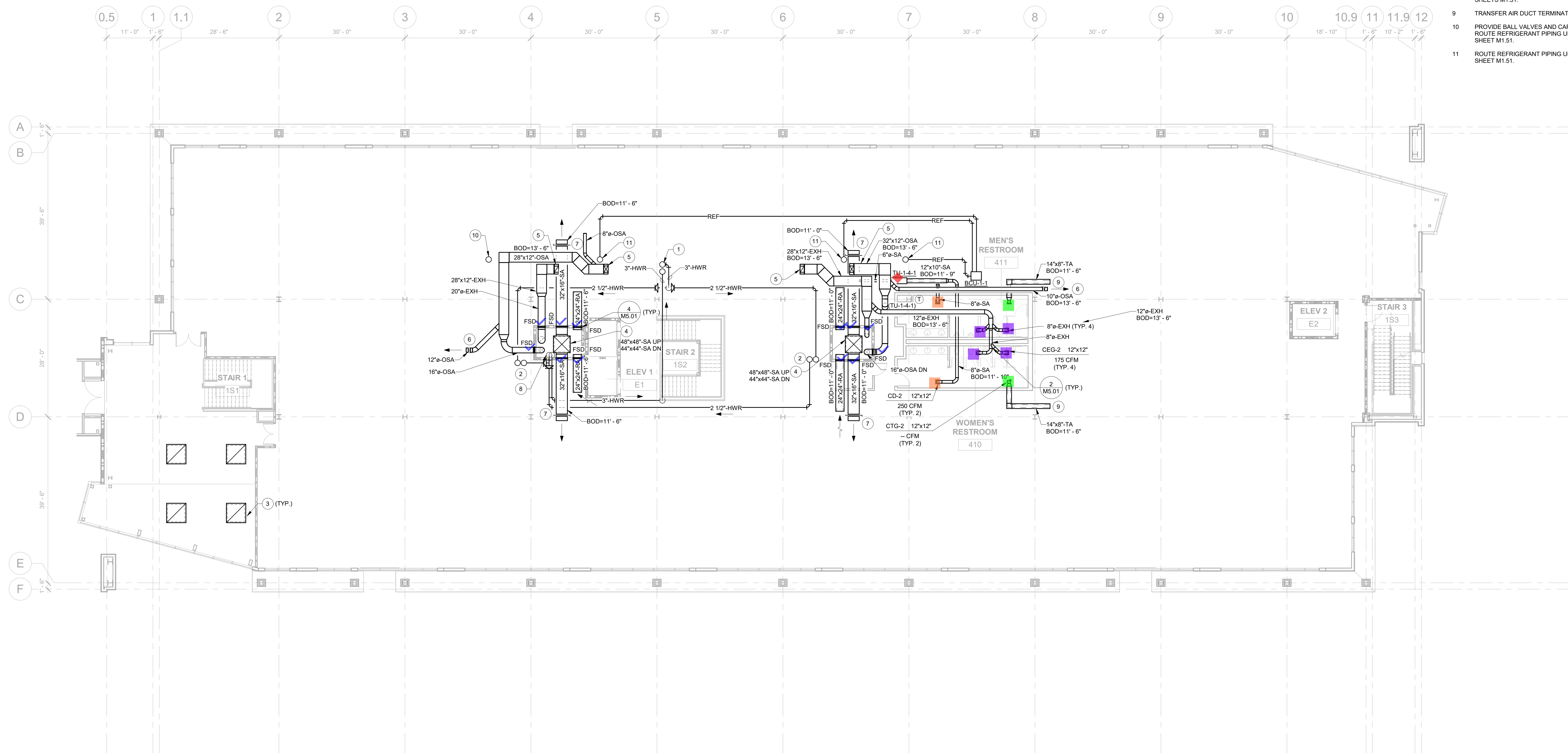
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GENERAL NOTES

A SEE SHEET M0.01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

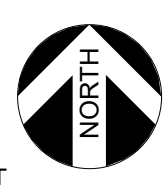
KEYED NOTES

- ROUTE 3"-HWS/R THROUGH ROOF. SEE SHEET M1.51 FOR CONTINUATION.
- ROUTE 2 1/2"-HWS THROUGH ROOF. SEE SHEET M1.51 FOR CONTINUATION.
- 50"x50" EXHAUST UP. TERMINATE 6" BELOW ROOF DECK. SEE ROOF PLAN FOR LOCATION.
- ROUTE 48"x48" SUPPLY AIR DUCT UP THROUGH ROOF TO AHU. SEE SHEET M1.51 FOR CONTINUATION.
- ROUTE OSA AND EXHAUST DUCTS UP THROUGH ROOF TO DOAS UNIT. SEE SHEET M1.51 FOR CONTINUATION.
- PROVIDE VOLUME DAMPER AND BALANCE TO 600 CFM.
- PROVIDE VOLUME DAMPER AND BALANCE TO 1,500 CFM.
- ROUTE BOTH 3"-HWR PIPING DOWN IN SHAFT. PIPING CONTINUES ON SHEETS M1.31.
- TRANSFER AIR DUCT TERMINATES 6" BELOW STRUCTURE.
- PROVIDE BALL VALVES AND CAP REFRIGERANT PIPING BELOW DECK. ROUTE REFRIGERANT PIPING UP THROUGH ROOF AND CONTINUE ON SHEET M1.51.
- ROUTE REFRIGERANT PIPING UP THROUGH ROOF AND CONTINUE ON SHEET M1.51.



1
M1.41
MECHANICAL FOURTH LEVEL PLAN

BAR SCALE
0 2 4 8 16 20
SCALE: 3/32" = 1'-0"
WHEN PRINTED ON 30"x42" SHEET



PROJECT TITLE: LAM GREENFIELD OFFICE BUILDING
CLIENT: LAM RESEARCH
11155 SW LEVETON DR.
TUALATIN, OR 97062

REV.	DESCRIPTION	DATE	APPR.
0	ISSUED FOR PERMIT	12/20/22	CCE

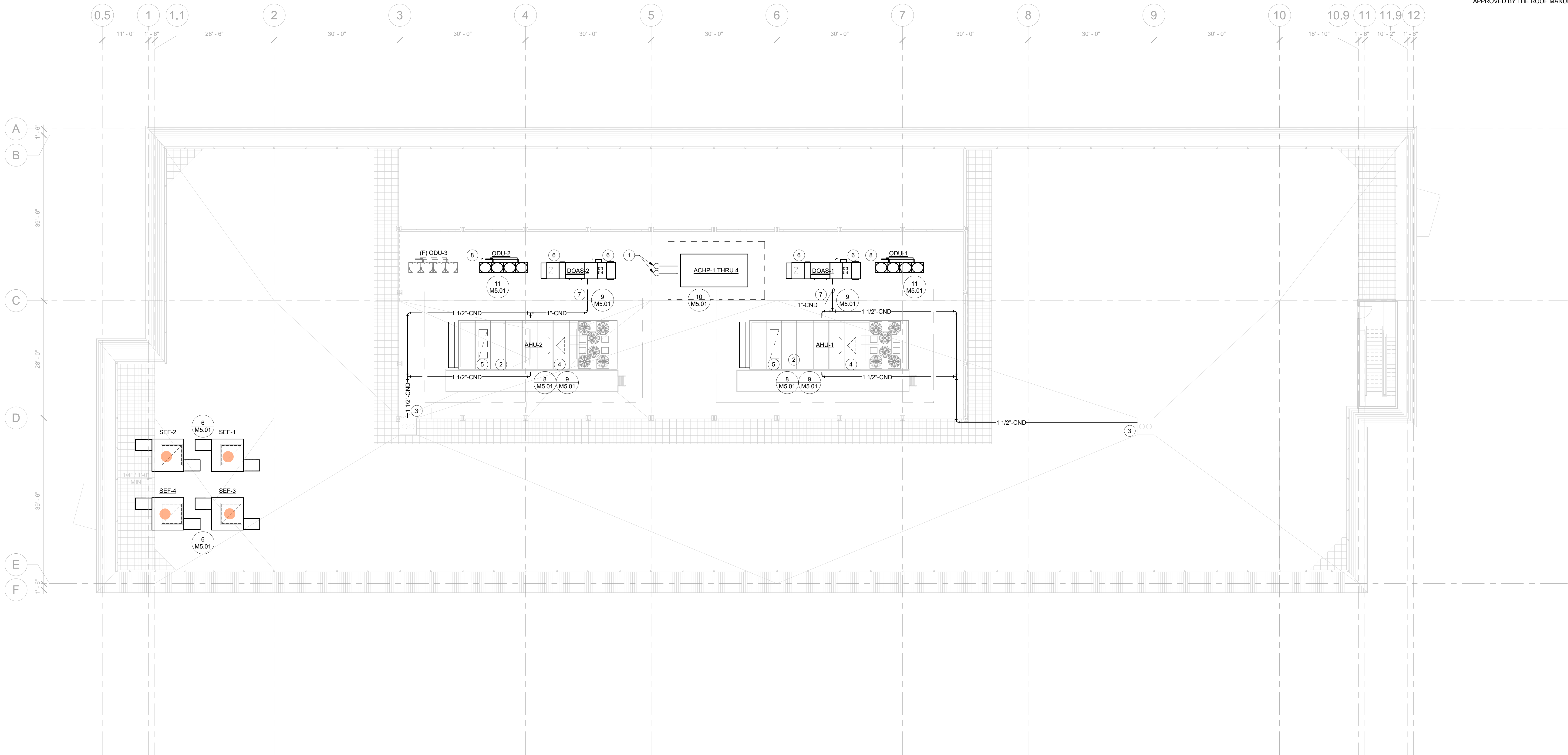
Sheet Title:
MECHANICAL
FOURTH LEVEL
PLAN

Sheet Number:

M1.41

Proj No: CC22450B

- GENERAL NOTES**
- A SEE SHEET M0.01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- KEYED NOTES**
- 1 CONNECT 6"-HWS/R TO ACHP-1. TRANSITION TO 3", ELBOW DOWN, AND PENETRATE ROOF. SEE SHEET M1.41 FOR CONTINUATION.
- 2 CONNECT 1 1/2"-HWS/R TO AHU-1&2. TRANSITION TO 2 1/2", ELBOW DOWN, AND PENETRATE ROOF WITH FLASHING APPROVED BY THE ROOF MANUFACTURER. SEE SHEET M1.41 FOR CONTINUATION.
- 3 TERMINATE CONDENSATE NEAR ROOF DRAINS.
- 4 ROUTE 48"x48" SUPPLY AIR DUCT DOWN IN SHAFT AND CONTINUE ON SHEET M1.41. TRANSITION AND MAKE CONNECTION TO UNIT.
- 5 RETURN AIR CONNECTION ON UNIT OPEN TO PLENUM BENEATH UNIT.
- 6 ROUTE OSA AND EXHAUST DUCTS DOWN THROUGH ROOF AND CONTINUE ON SHEET M1.41.
- 7 CONNECT TO (3) CONDENSATE DRAINS ON THIS UNIT.
- 8 ROUTE REFRIGERANT PIPING DOWN THROUGH ROOF WITH FLASHING APPROVED BY THE ROOF MANUFACTURER.



1 MECHANICAL ROOF PLAN
M1.51

BAR SCALE
0 2 4 8 16 20
SCALE: 3/32" = 1'-0"
WHEN PRINTED ON 30"x42" SHEET



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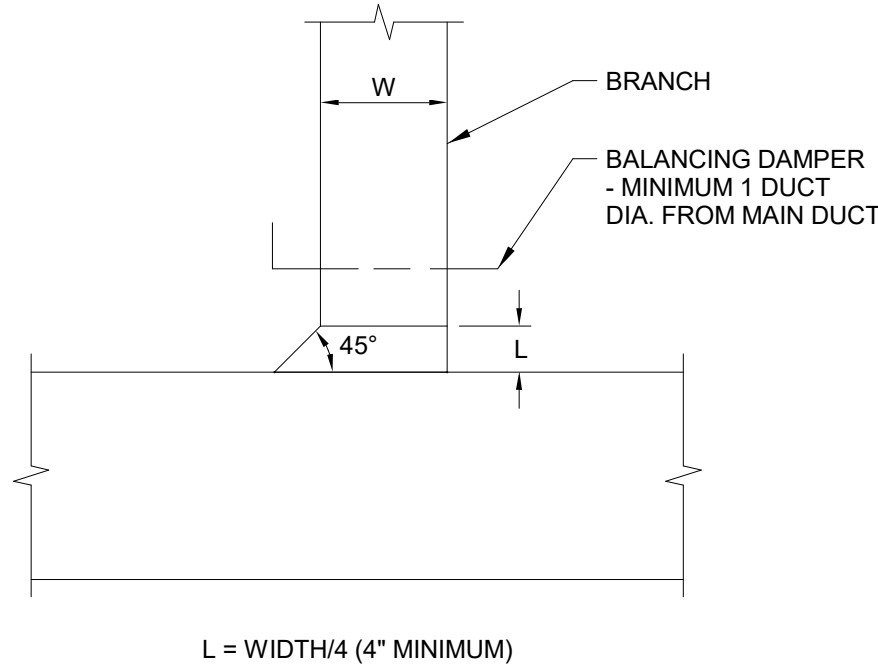
REV	DESCRIPTION	DATE	APPR
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Sheet Title:
MECHANICAL ROOF
PLAN

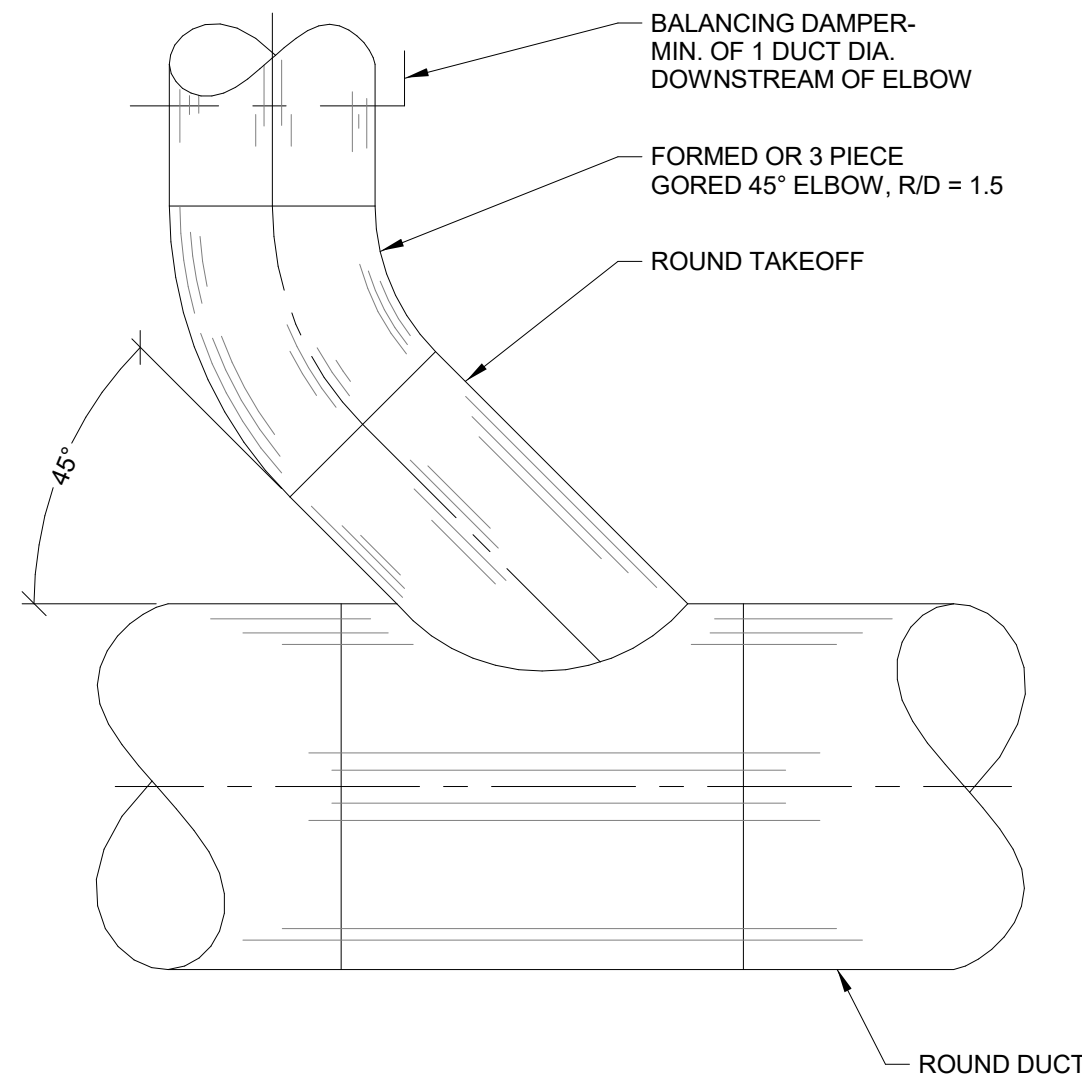
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M1.51

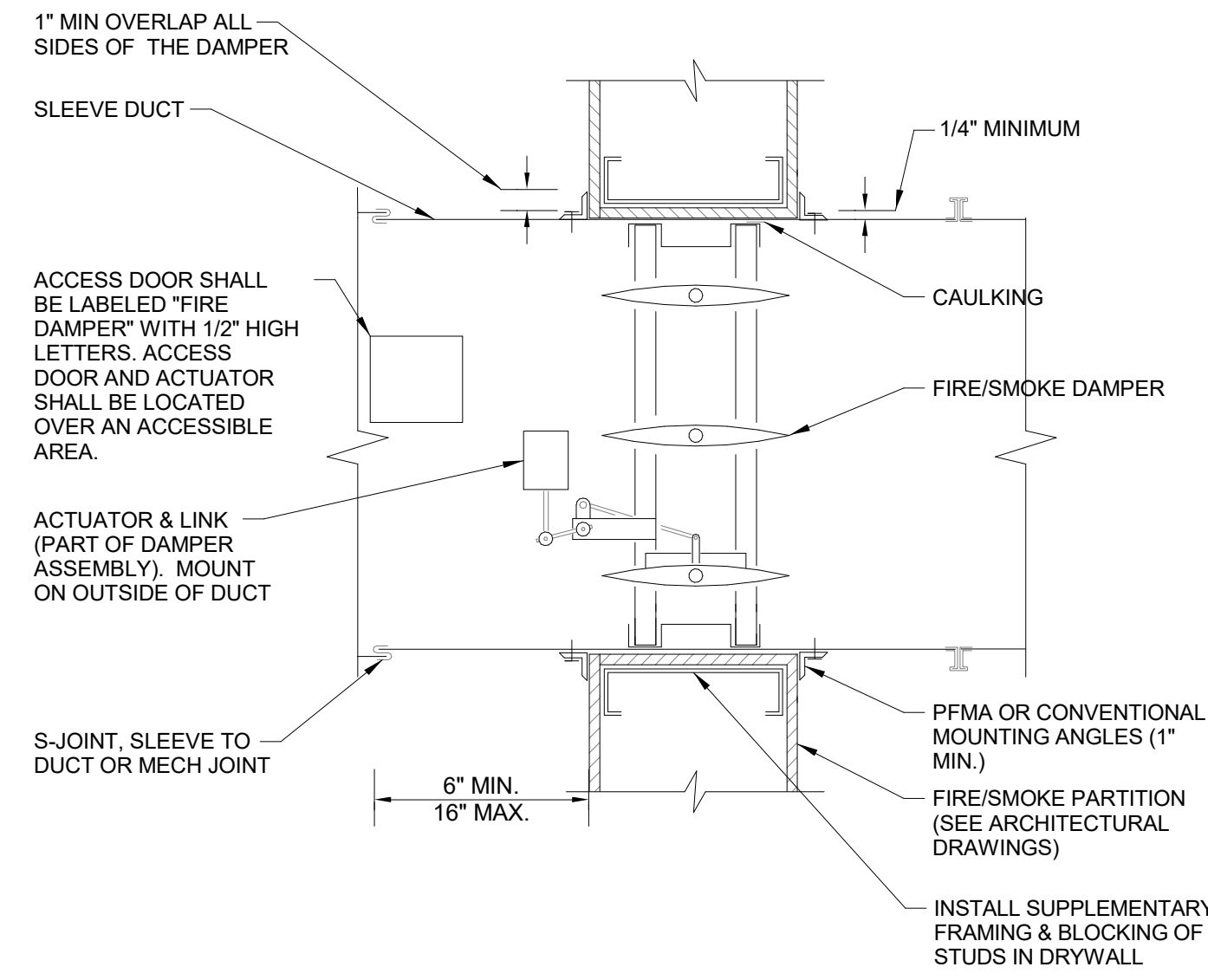
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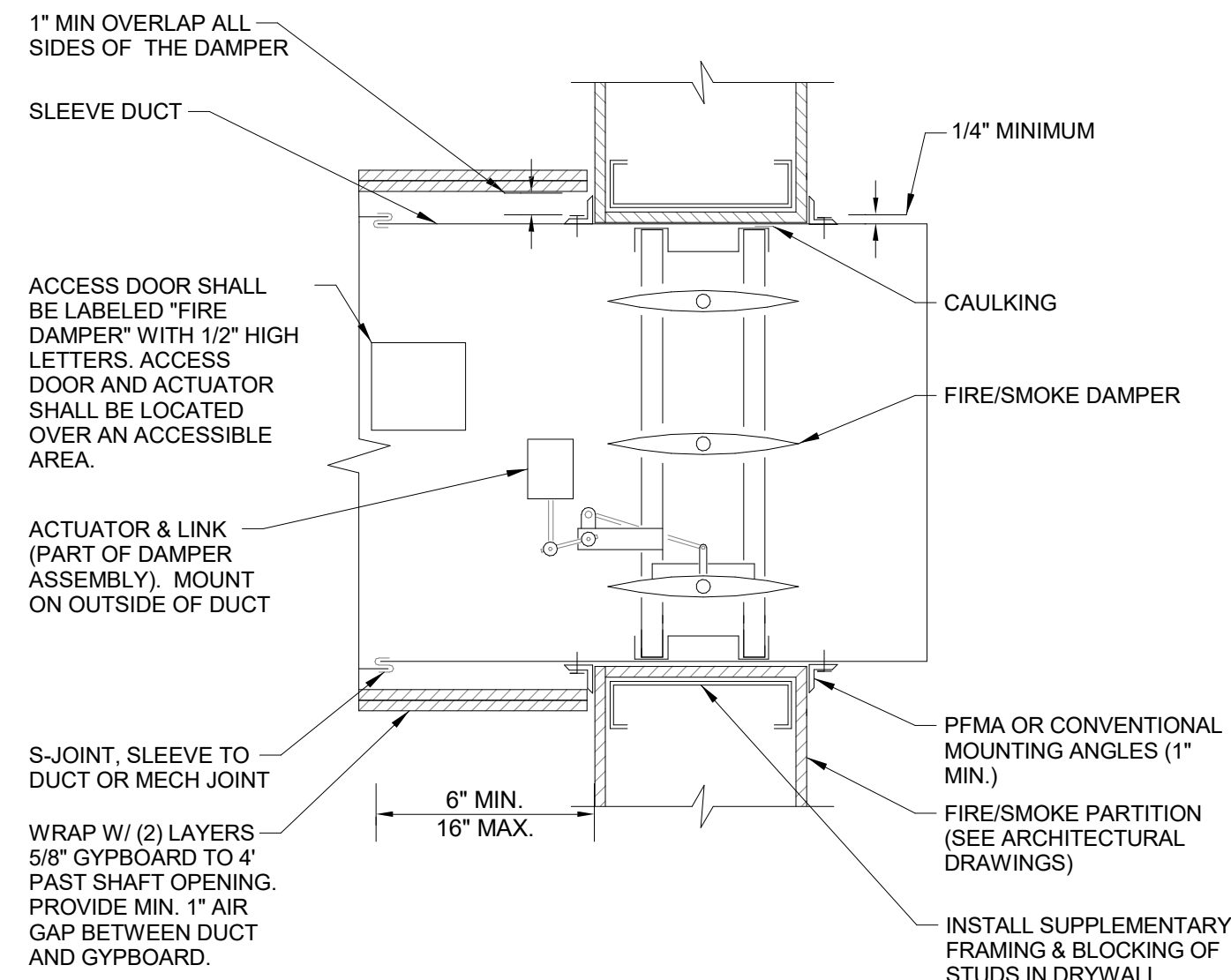
1 RECTANGULAR BRANCH
M5.01



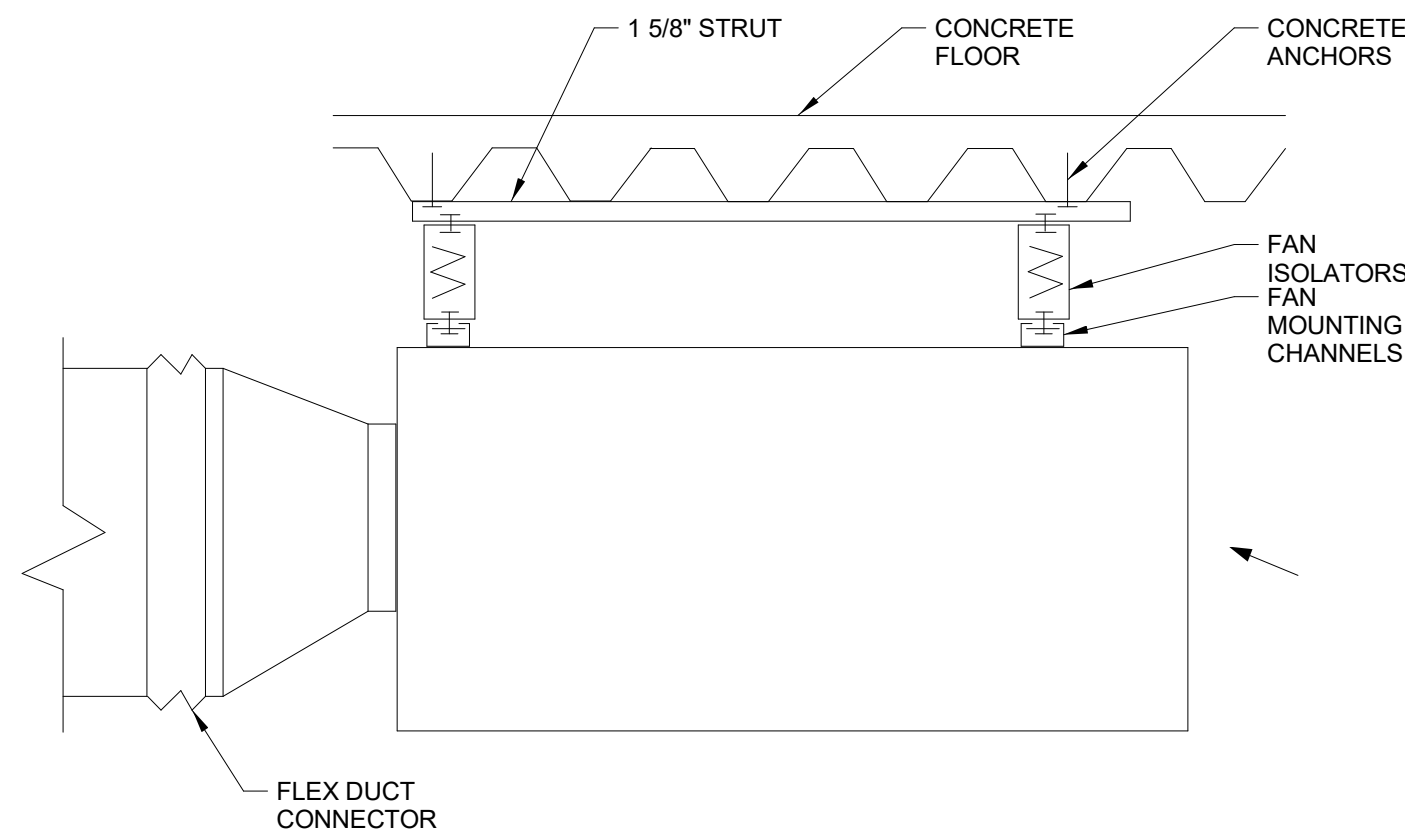
2 SUPPLY BRANCH - ROUND TO ROUND
M5.01



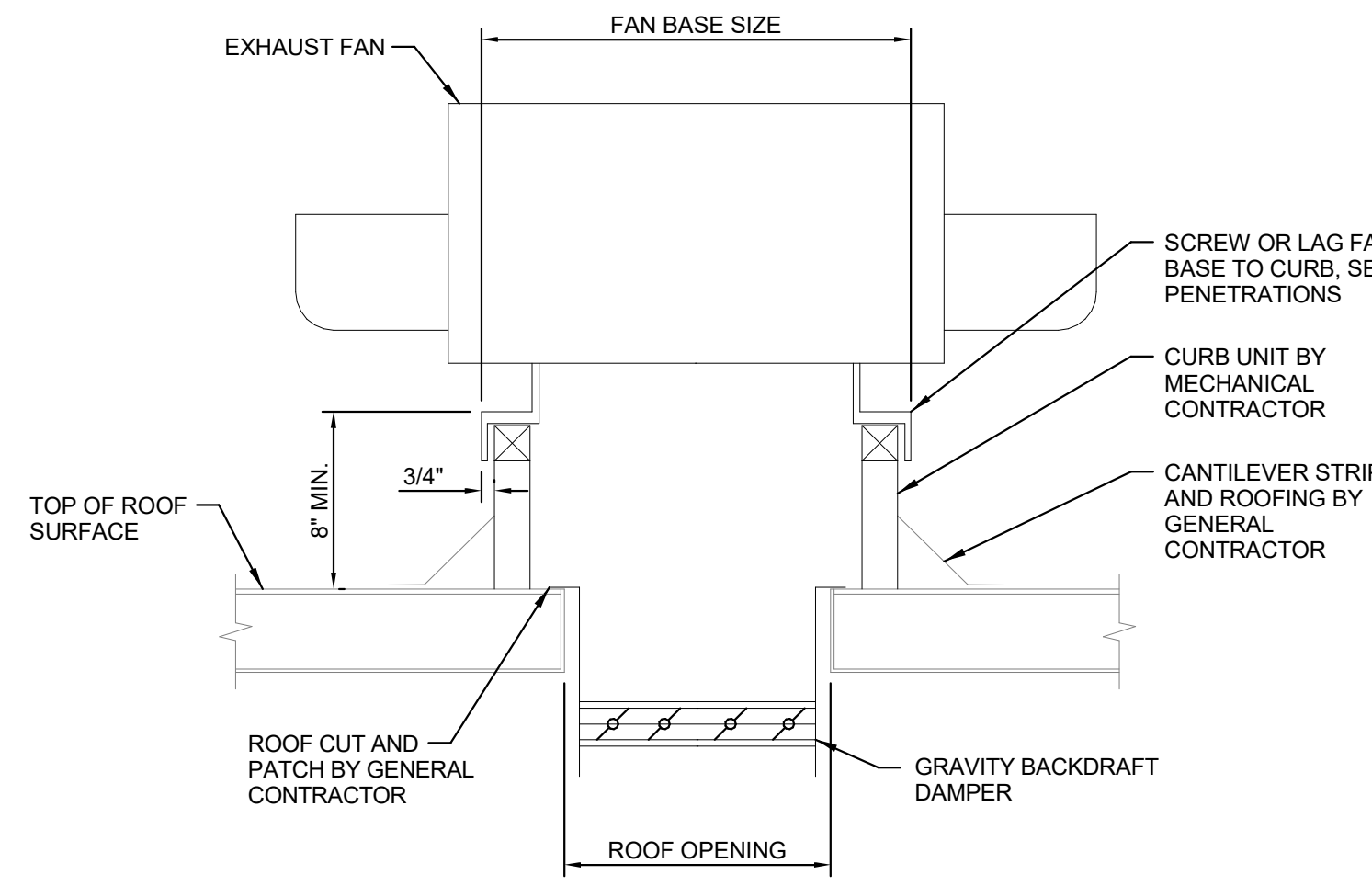
3 COMBINATION FIRE/SMOKE DAMPER
M5.01



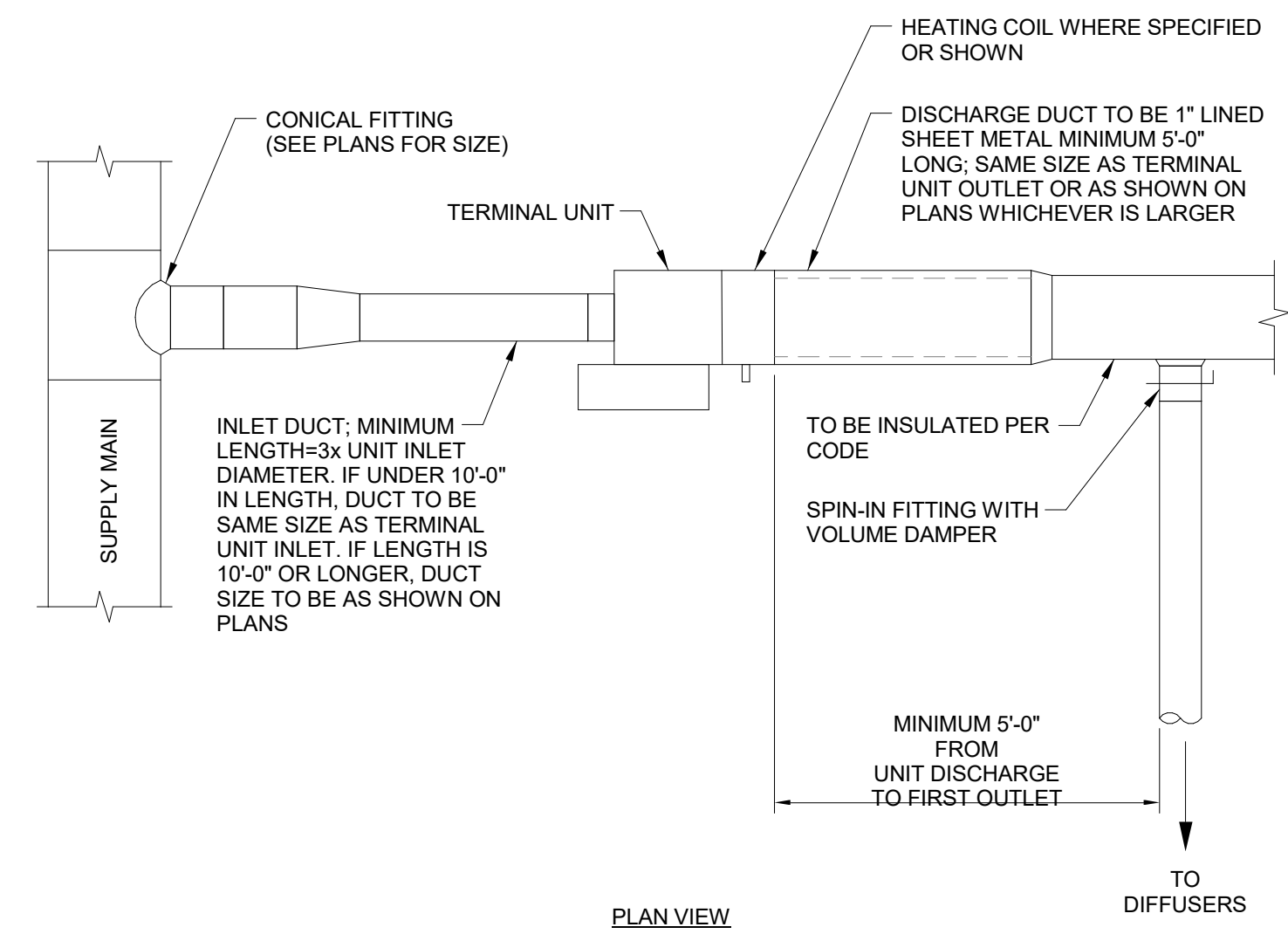
4 COMBINATION FIRE/SMOKE DAMPER
M5.01



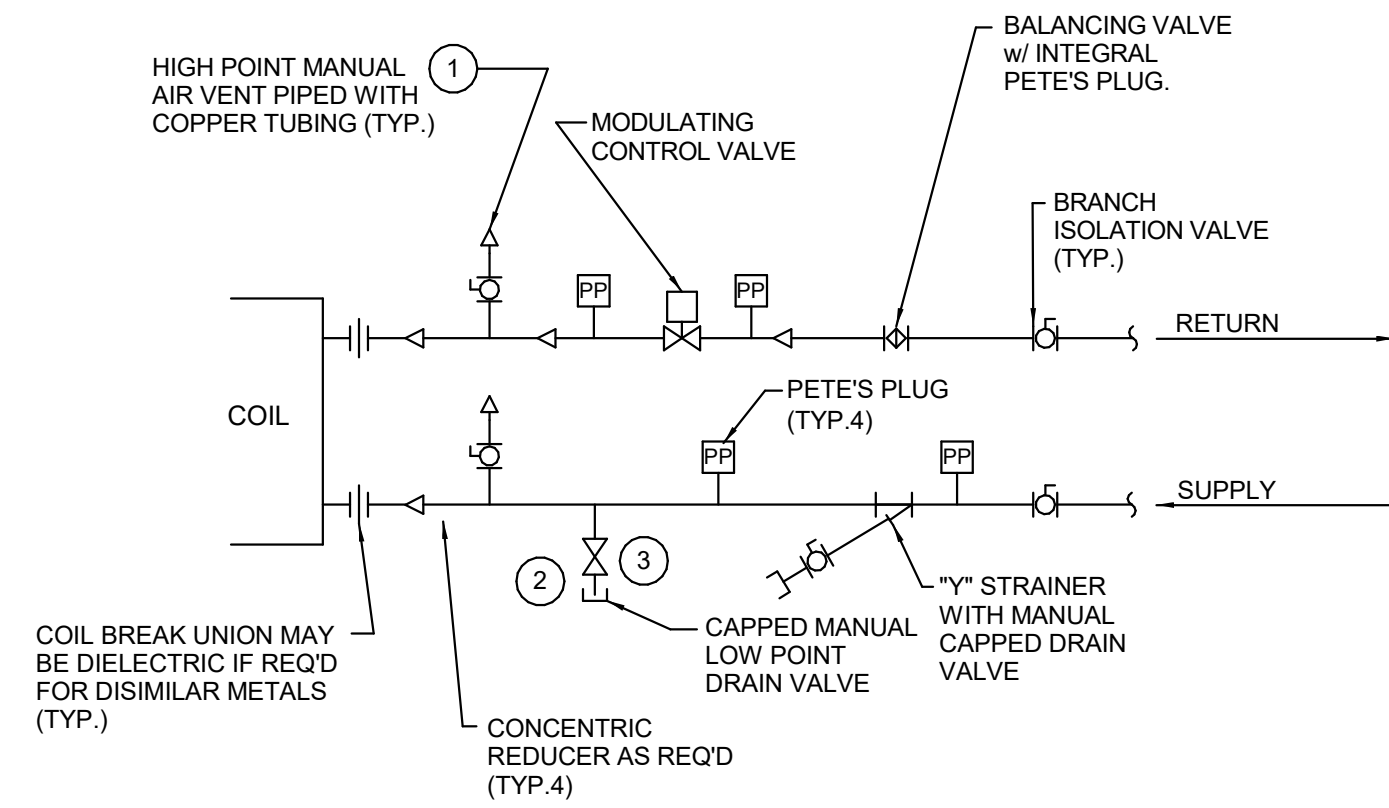
5 TRANSFER FAN
M5.01



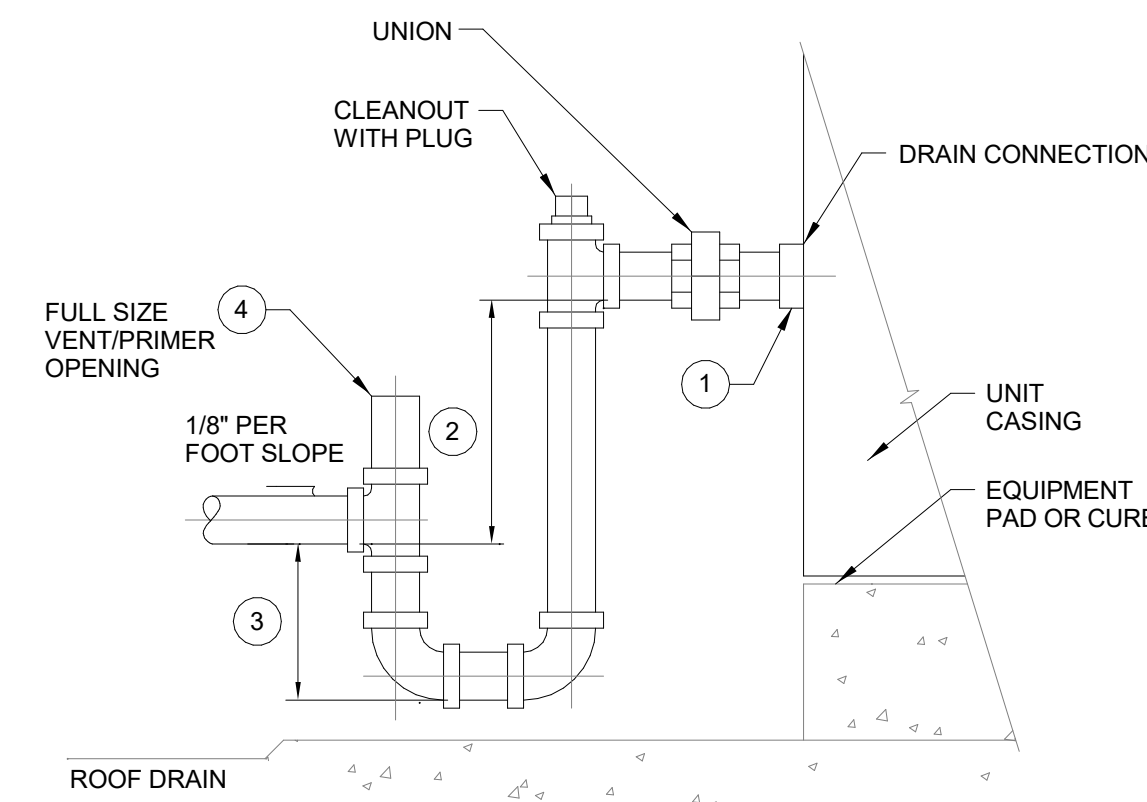
6 SMOKE EXHAUST FAN
M5.01



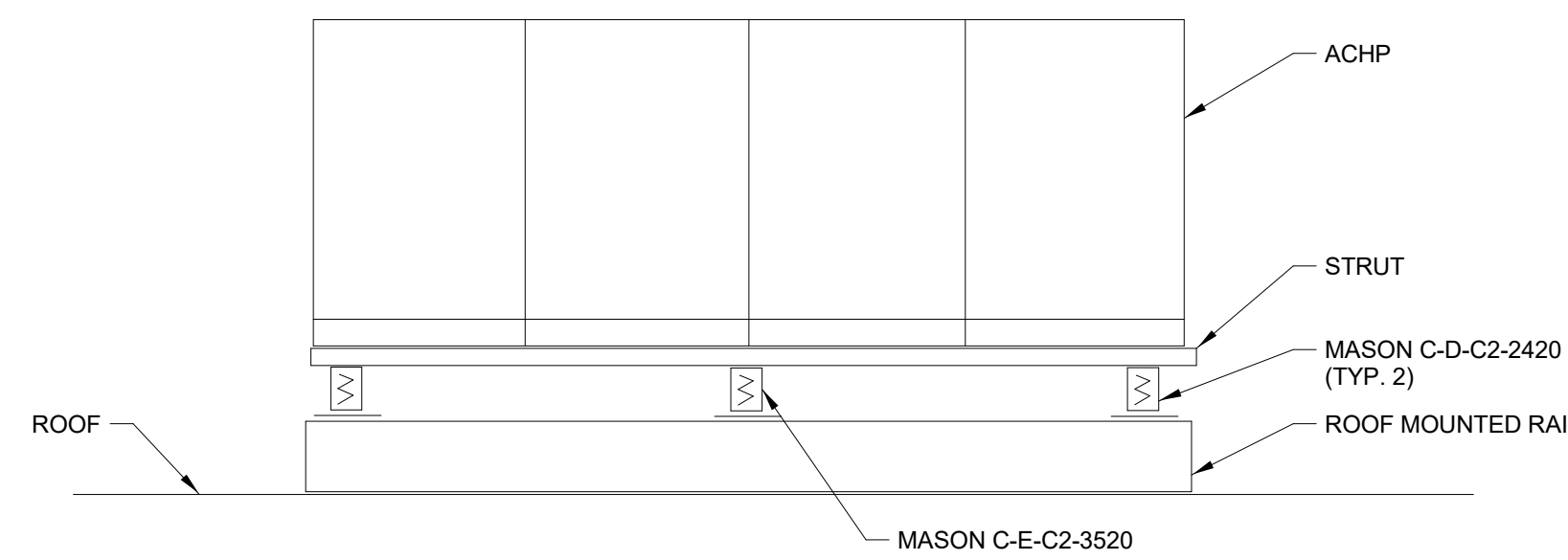
7 TERMINAL UNIT
M5.01



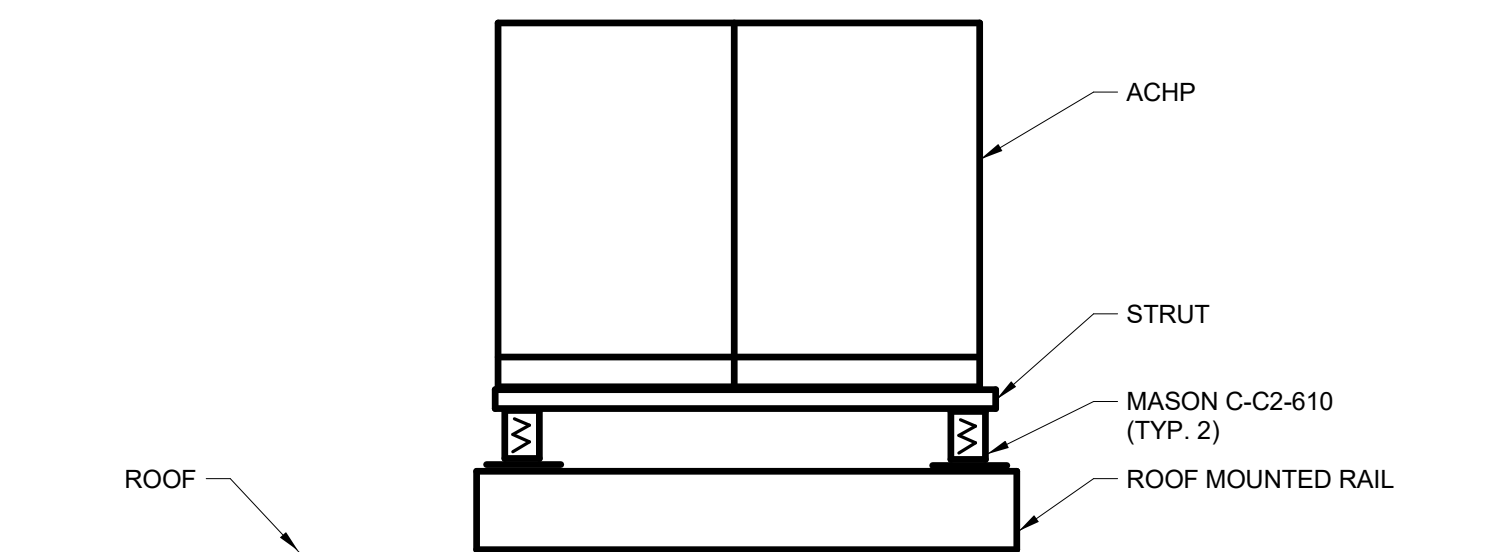
8 SENSIBLE HEATING COIL
M5.01



9 AHU & DOAS COIL CONDENSATE RETURN
M5.01



10 ACHP MOUNTING
M5.01

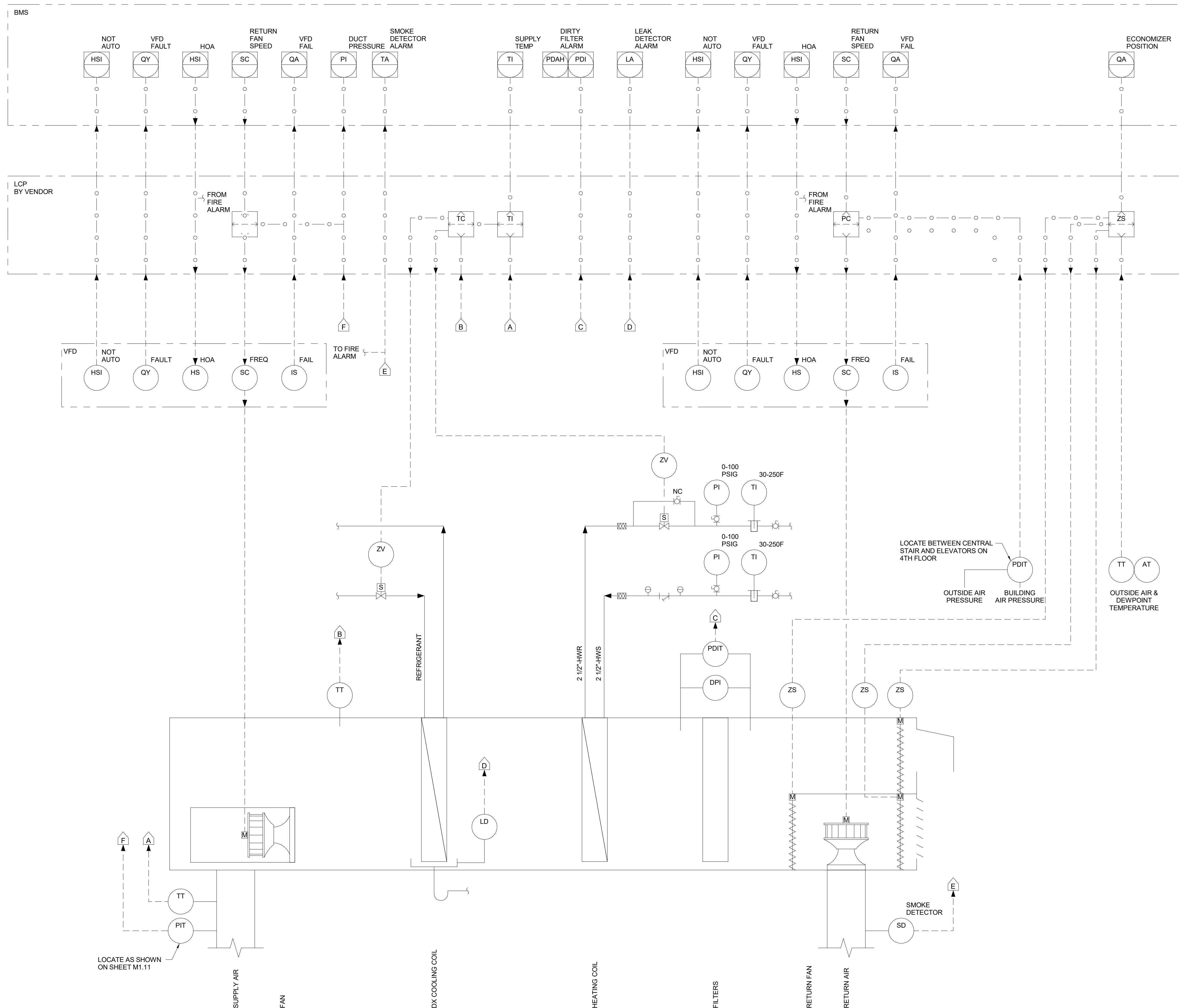


11 ODU MOUNTING
M5.01

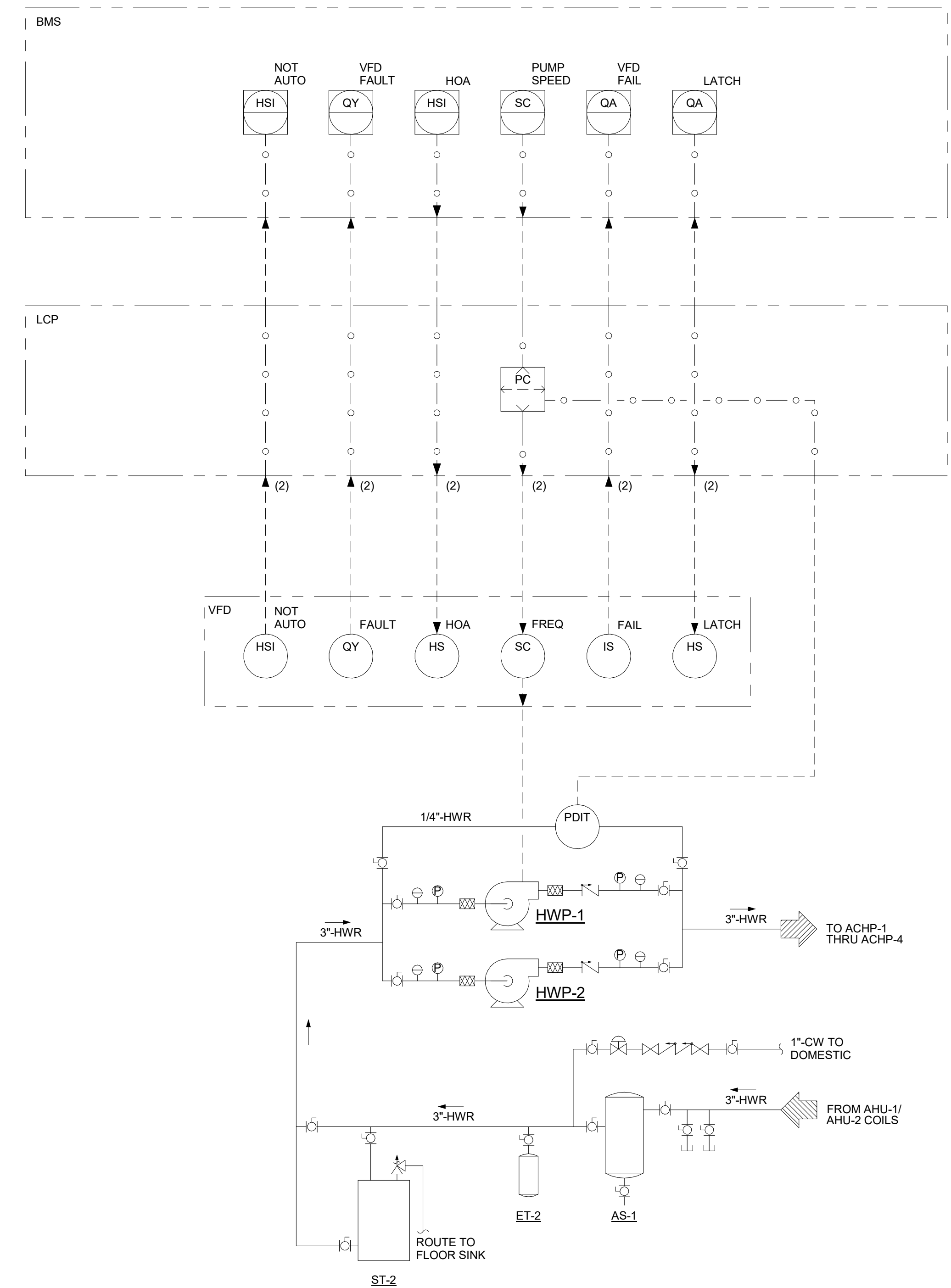
GENERAL NOTES
A SEE SHEET M0.01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

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Sheet Title:
MECHANICAL
DETAILS



1 AHU-1/AHU-2 P&ID
M6.02



2 HEATING PUMP P&ID
M6.02

