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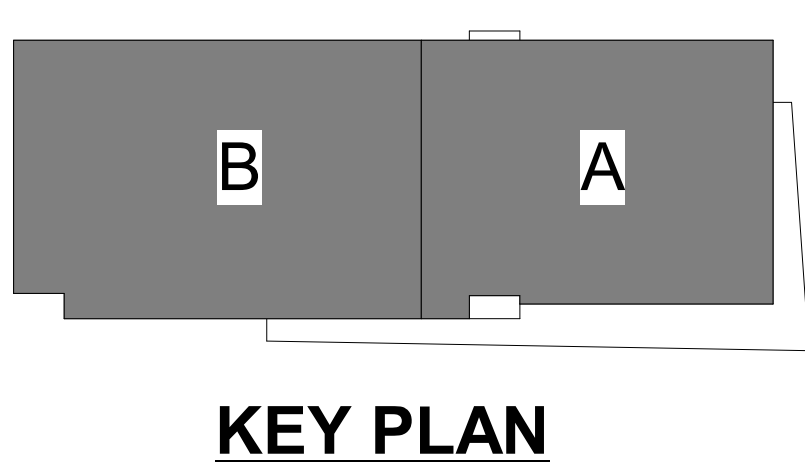
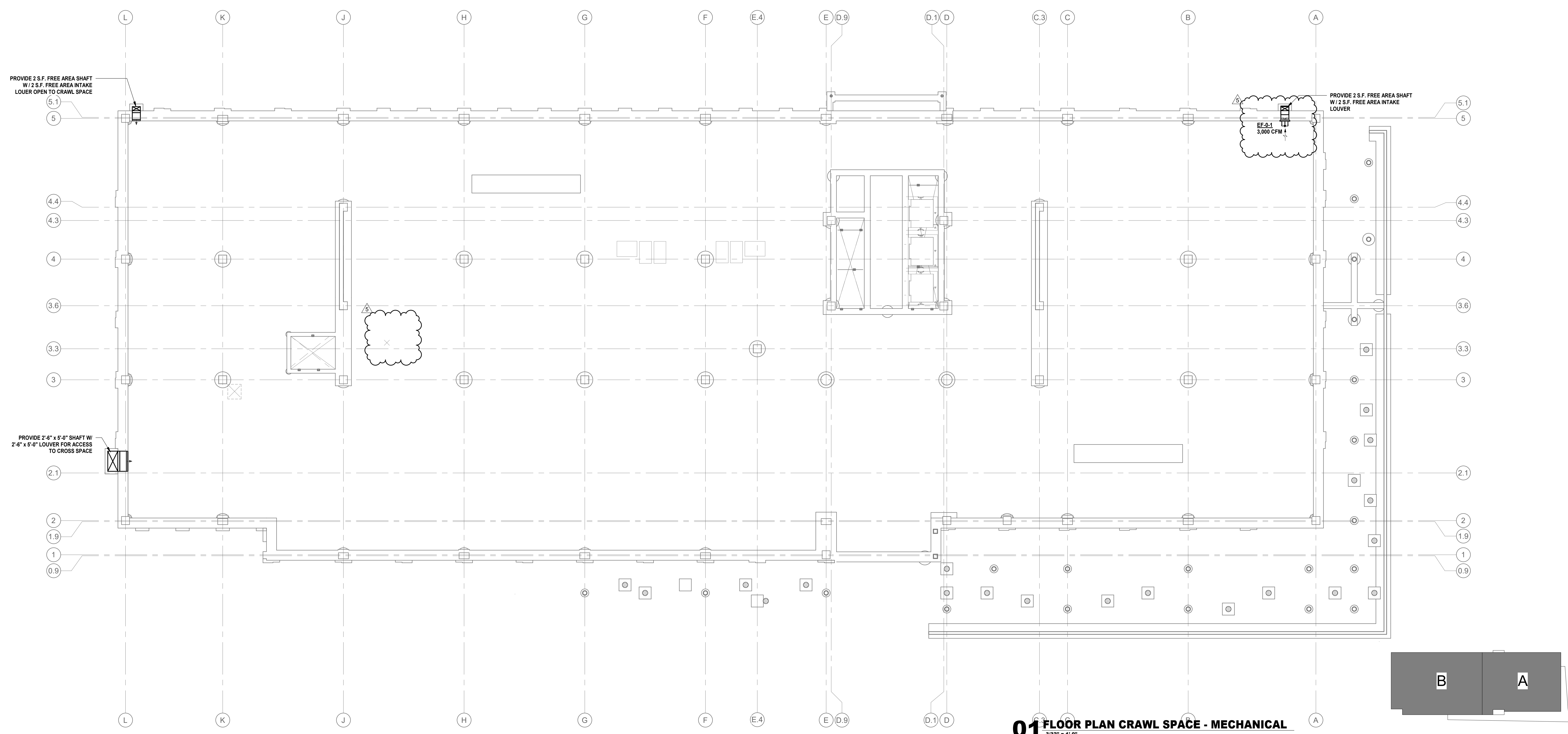
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ISSUE LOG

DATE	DESCRIPTION
05.06.2019	SCHEMATIC DESIGN
06.14.2019	50% CONSTRUCTION DOCUMENTS
07.19.2019	80% CONSTRUCTION DOCUMENTS
09.30.2019	ISSUE FOR PERMIT
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REVISION LOG

DATE	DESCRIPTION	DELTA
10.01.2020	BUILDING PERMIT CONSTRUCTION DOCUMENTS	3
02.19.2021	REVISION #02	5



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DATE SEAL	ARCH. PROJ. #	SCALE:
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SHEET NO.
M2.100
 FLOOR PLAN - CRAWL SPACE - OVERALL

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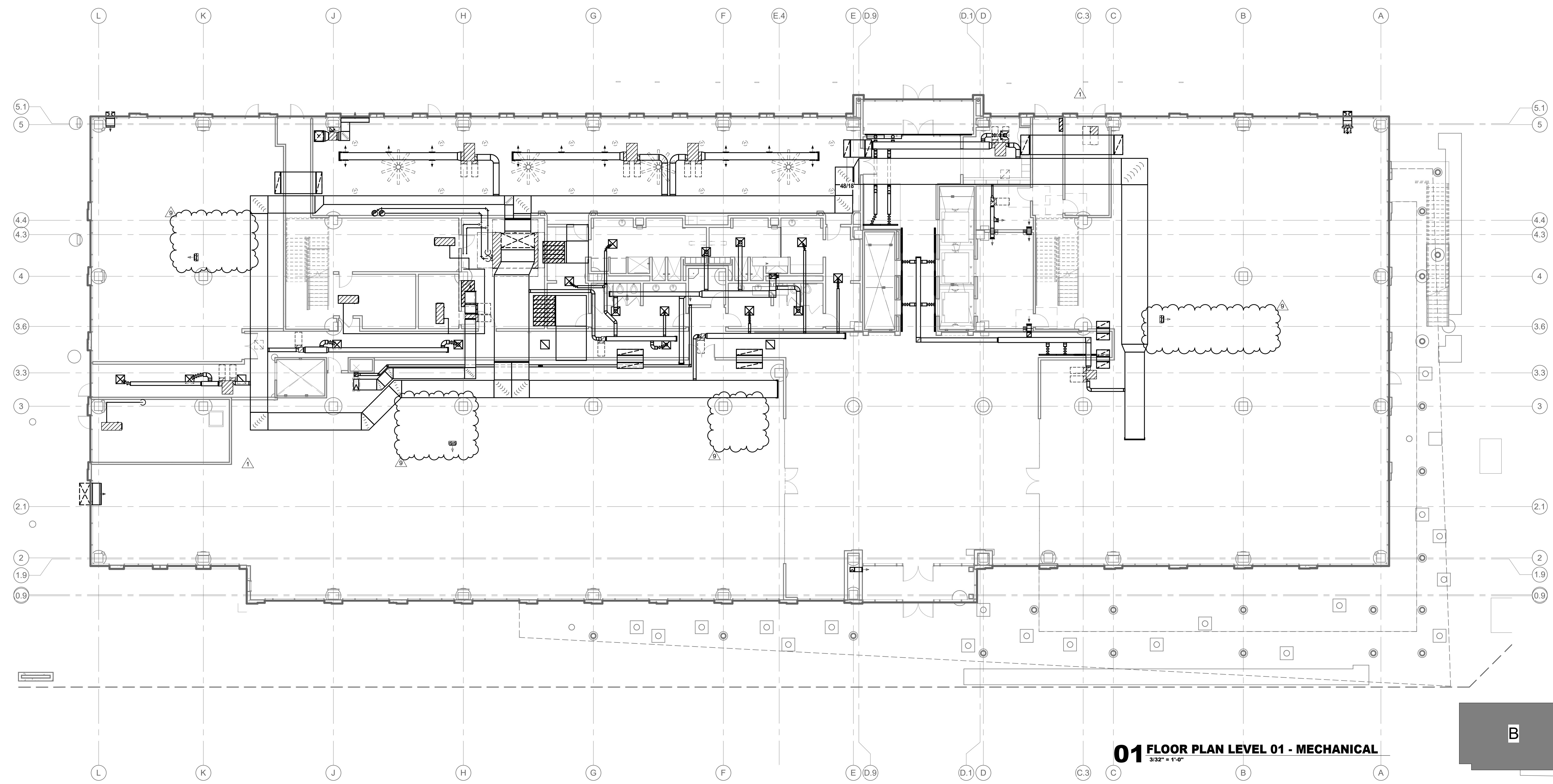
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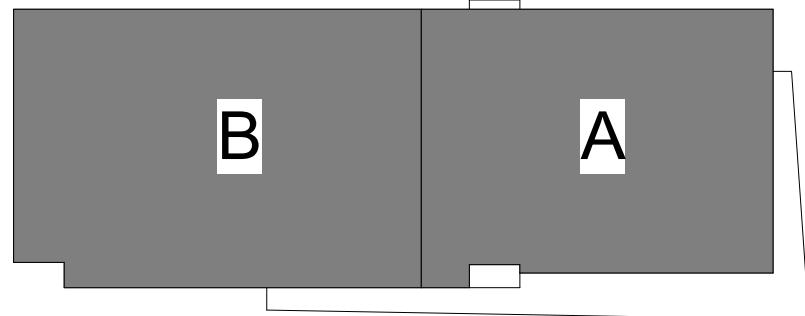
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REVISION LOG

DATE	DESCRIPTION	DELTA
01.13.2020	CITY COMMENT	1
10.01.2020	BUILDING PERMIT CONSTRUCTION DOCUMENTS	3
11.24.2020	REVISION #03	4
07.19.2021	REVISION #05	9



01 FLOOR PLAN LEVEL 01 - MECHANICAL
 3/32" = 1'-0"



KEY PLAN

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SHEET NO.
M2.101
 FLOOR PLAN - LEVEL 1 - OVERALL

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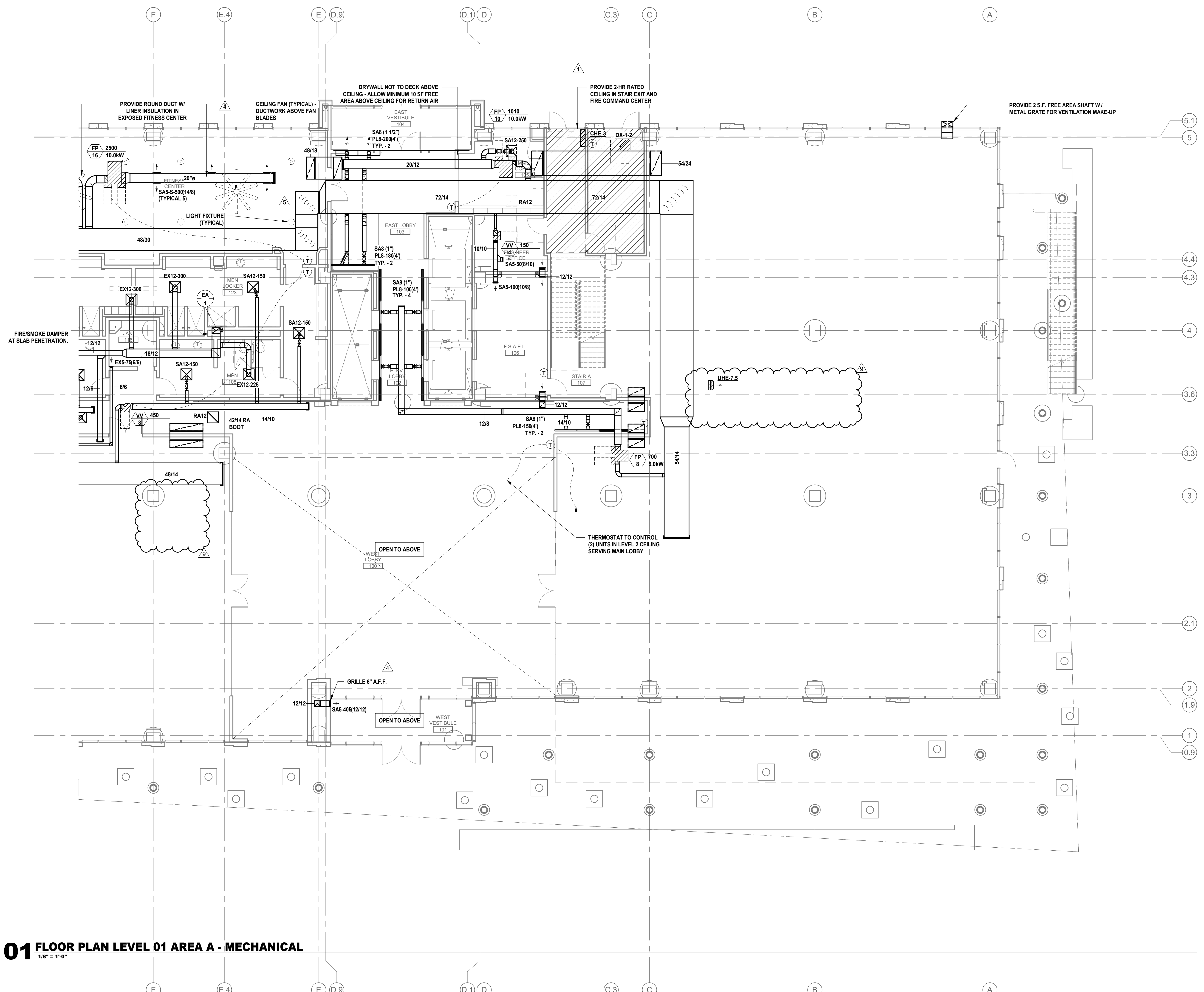
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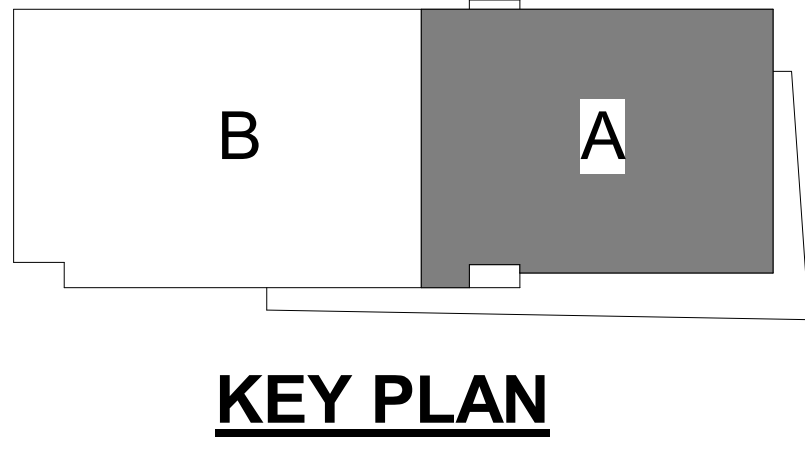
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M2.101A
 FLOOR PLAN - LEVEL 1 - AREA A

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01 FLOOR PLAN LEVEL 01 AREA A - MECHANICAL
 1/8" = 1'-0"



KEY PLAN

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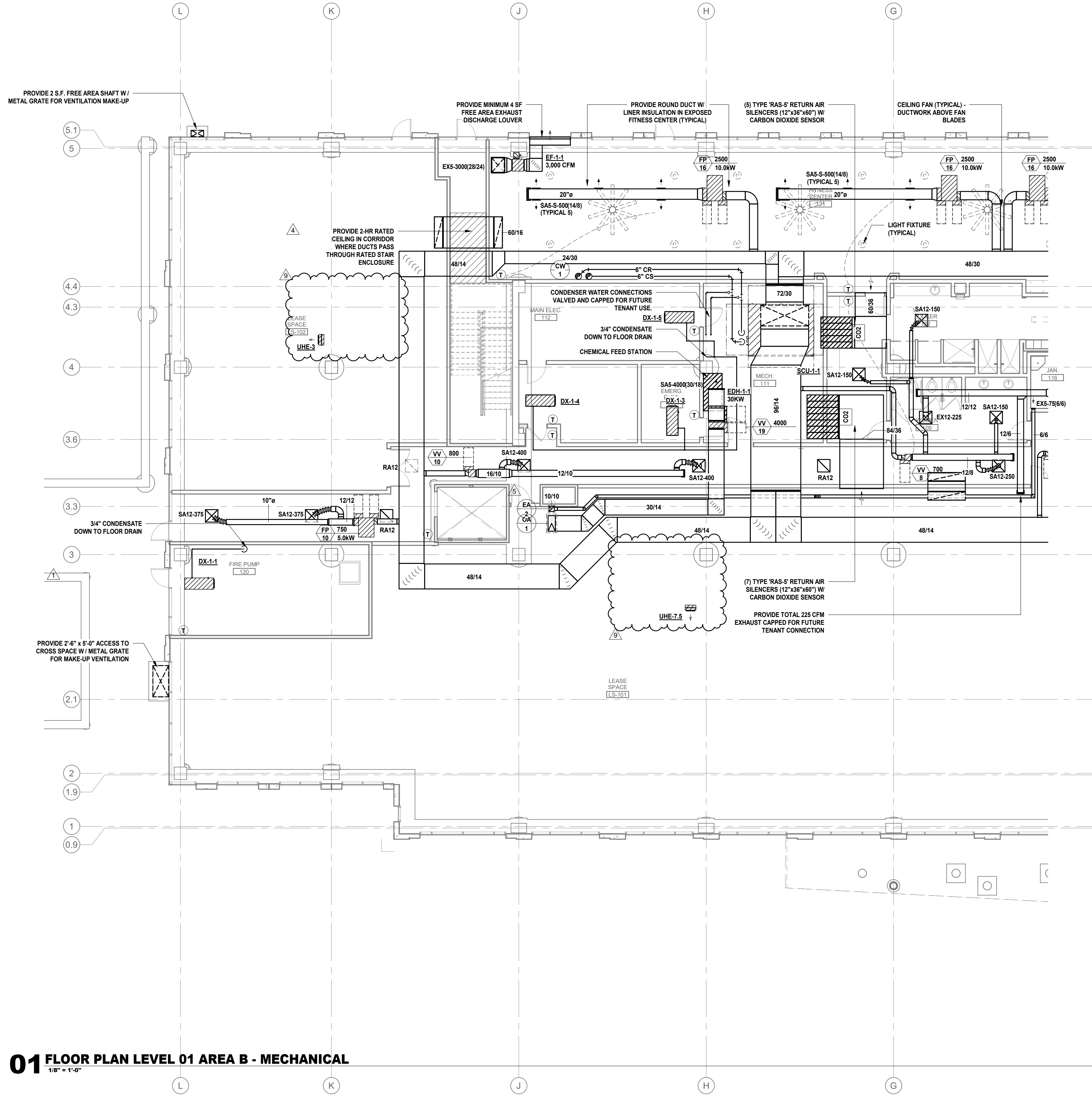
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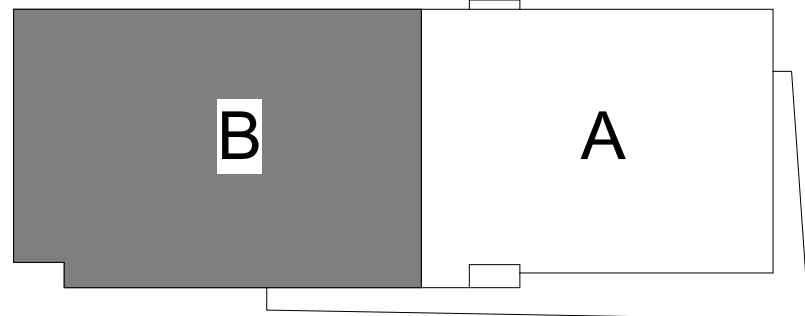
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M2.101B
 FLOOR PLAN - LEVEL 1 - AREA B

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01 FLOOR PLAN LEVEL 01 AREA B - MECHANICAL
 1/8" = 1'-0"



KEY PLAN

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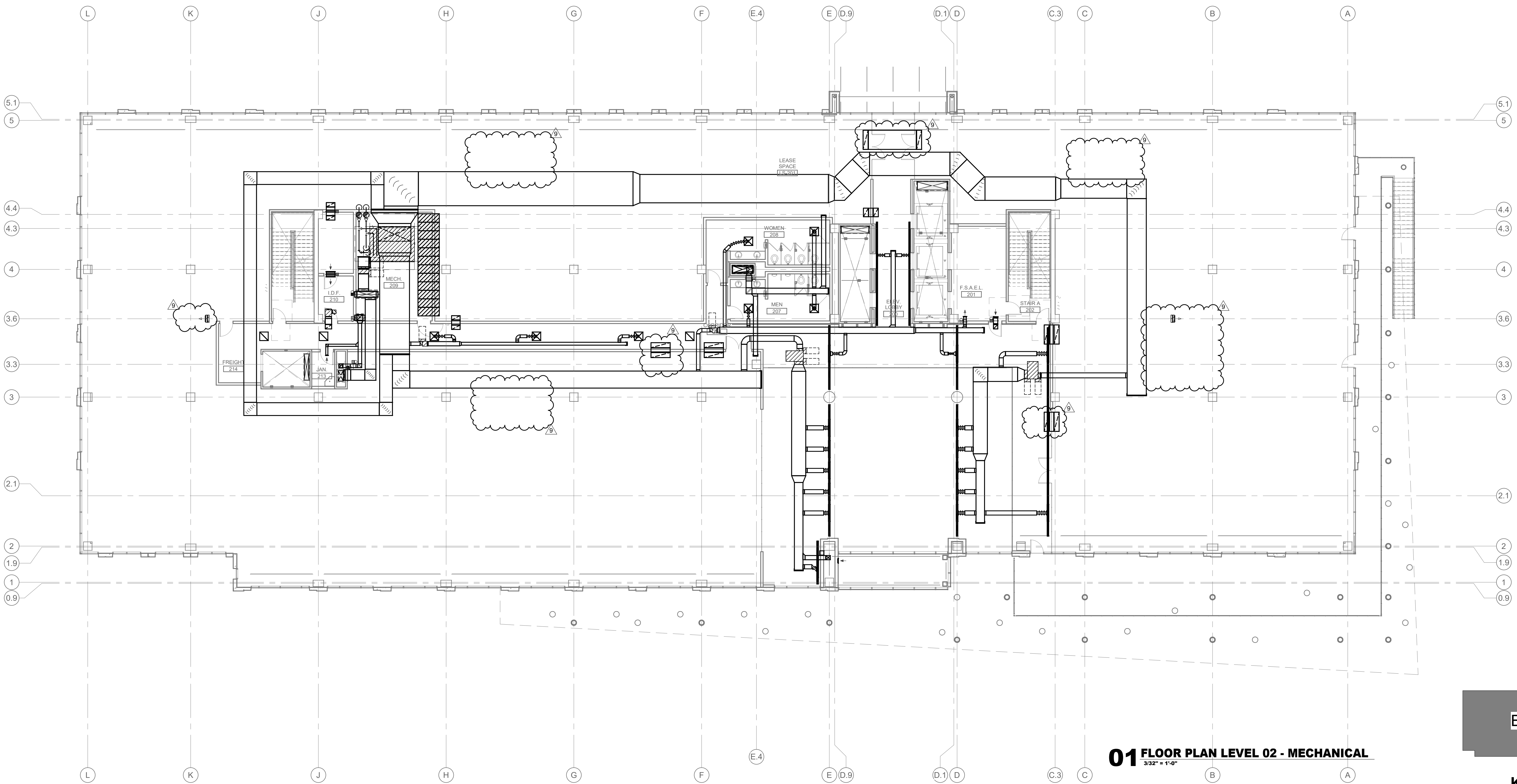
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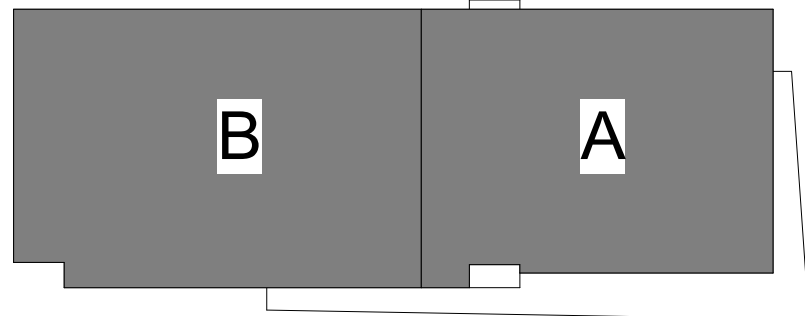
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10.01.2020	BUILDING PERMIT CONSTRUCTION DOCUMENTS	3
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01 FLOOR PLAN LEVEL 02 - MECHANICAL
3/32" = 1'-0"



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FLOOR PLAN - LEVEL 2 - OVERALL

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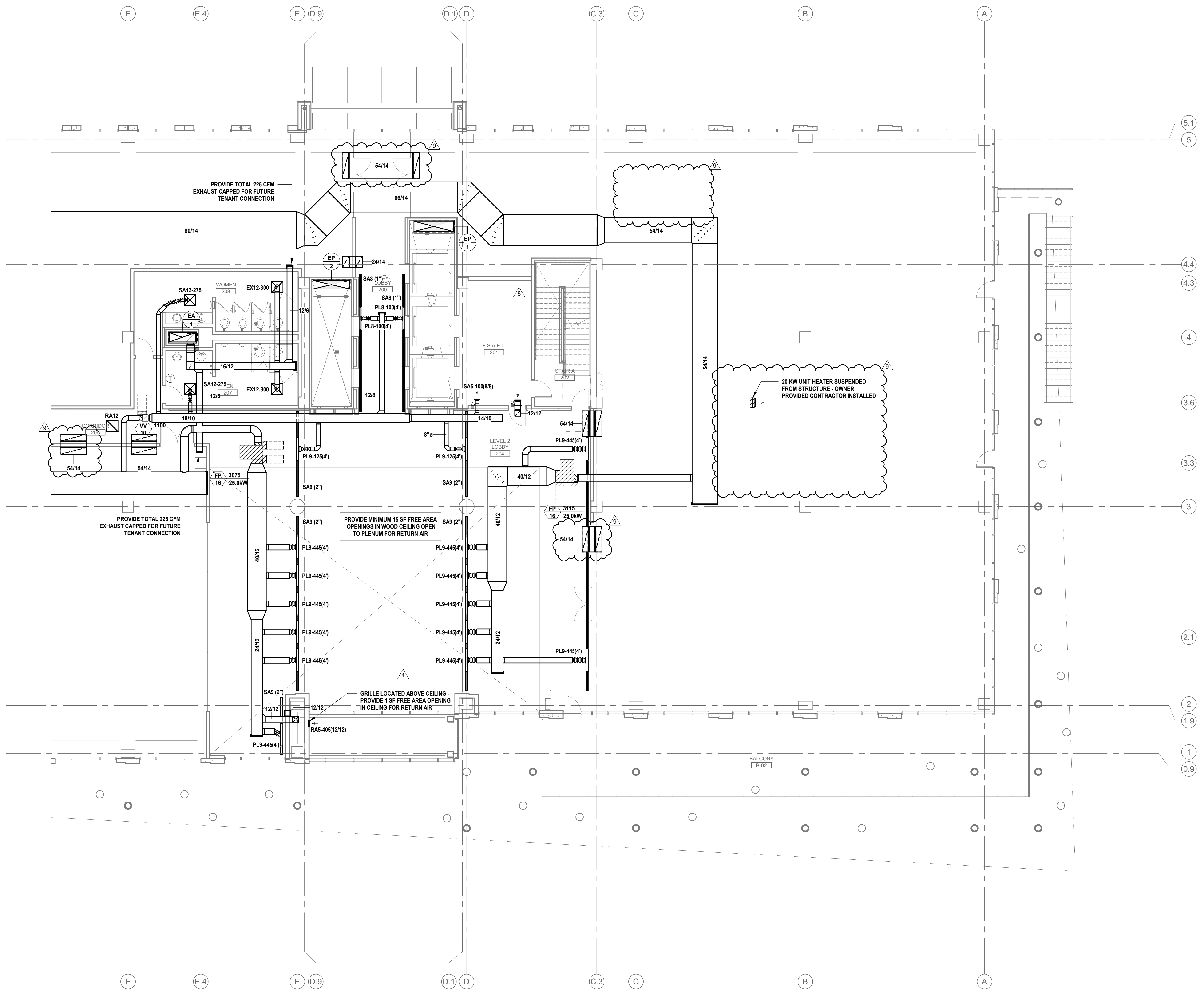
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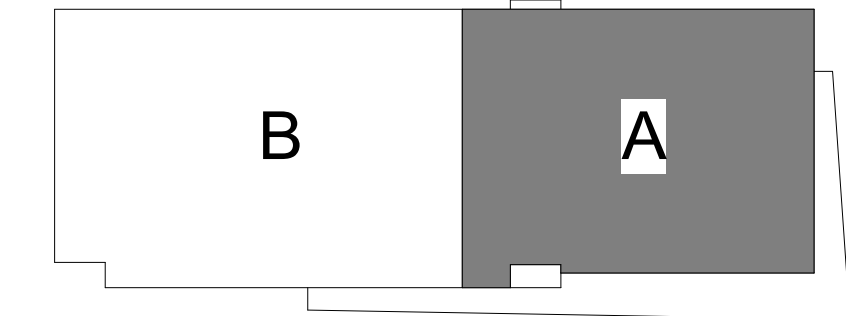
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REVISION LOG

DATE	DESCRIPTION	DELTA
10.01.2020	BUILDING PERMIT CONSTRUCTION DOCUMENTS	3
11.24.2020	REVISION #01	4
06.25.2021	REVISION #04	8
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01 FLOOR PLAN LEVEL 02 AREA A - MECHANICAL
 1/8" = 1'-0"



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 FLOOR PLAN - LEVEL 2 - AREA A

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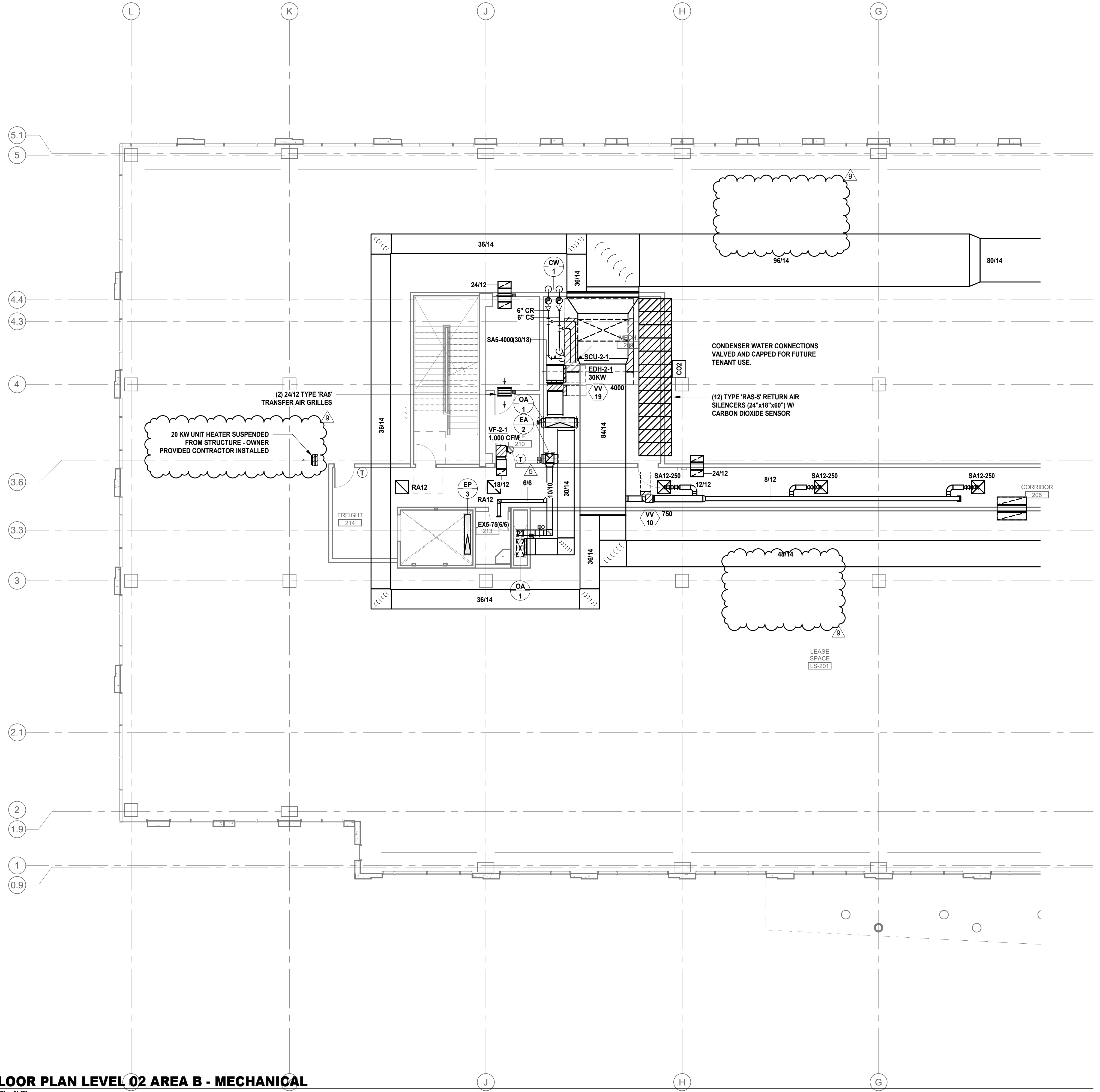
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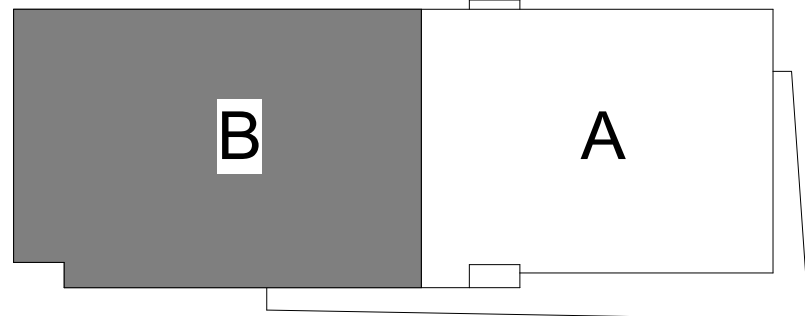
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REVISION LOG

DATE	DESCRIPTION	DELTA
10.01.2020	BUILDING PERMIT CONSTRUCTION DOCUMENTS	3
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01 FLOOR PLAN LEVEL 02 AREA B - MECHANICAL
 1/8" = 1'-0"



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FLOOR PLAN - LEVEL 2 - AREA B

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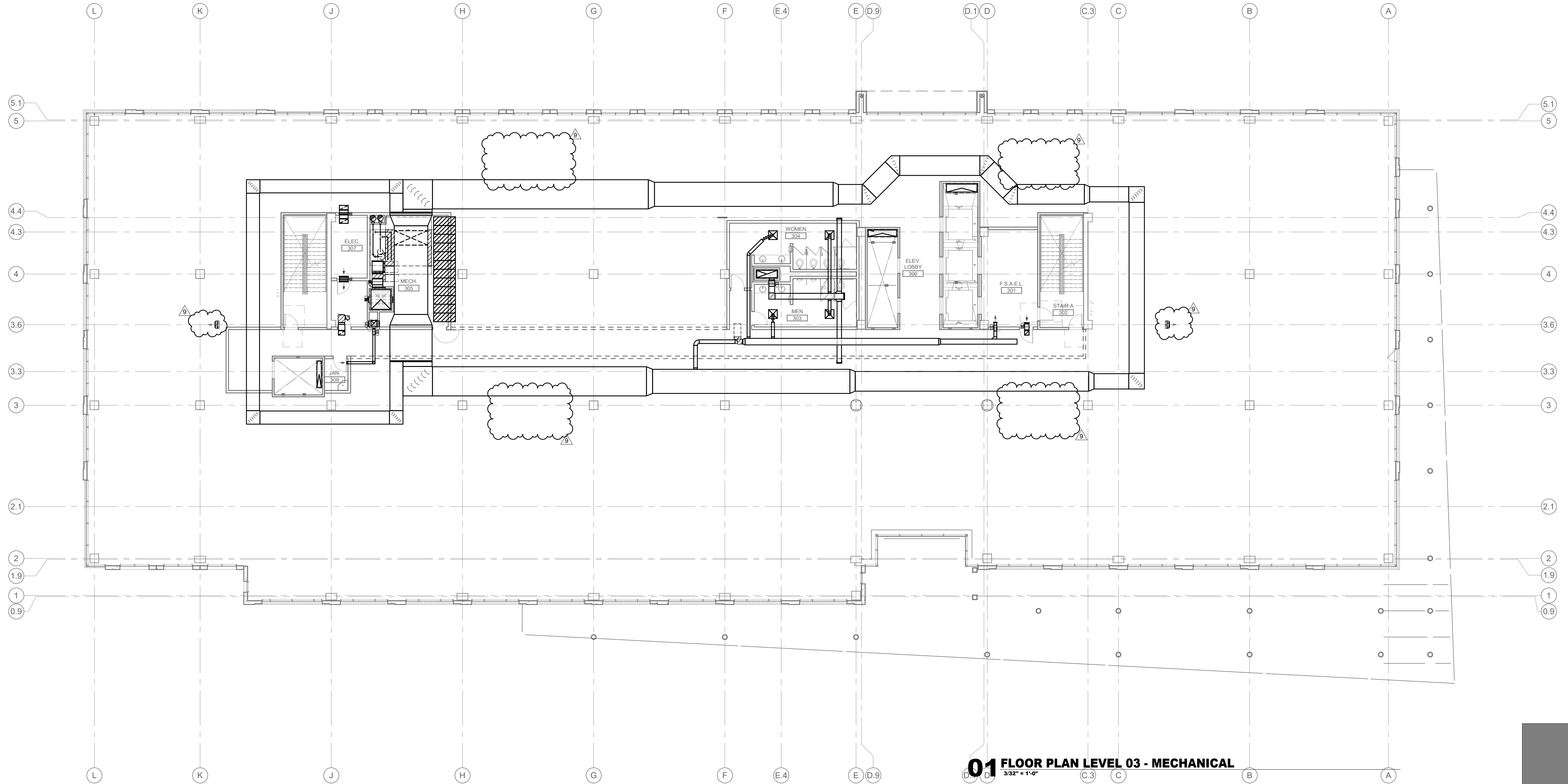
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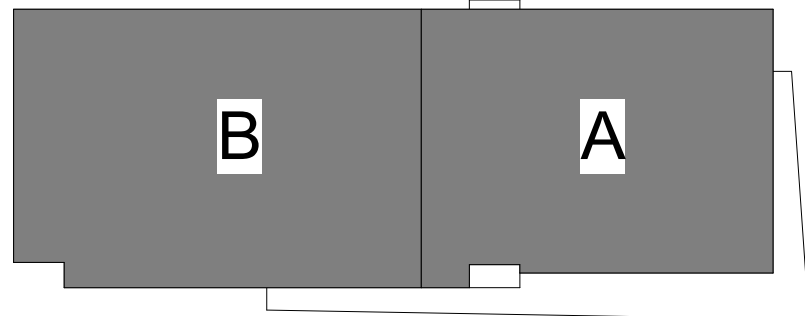
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REVISION LOG

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01 FLOOR PLAN LEVEL 03 - MECHANICAL
 3/32" = 1'-0"



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FLOOR PLAN - LEVEL 3 - OVERALL

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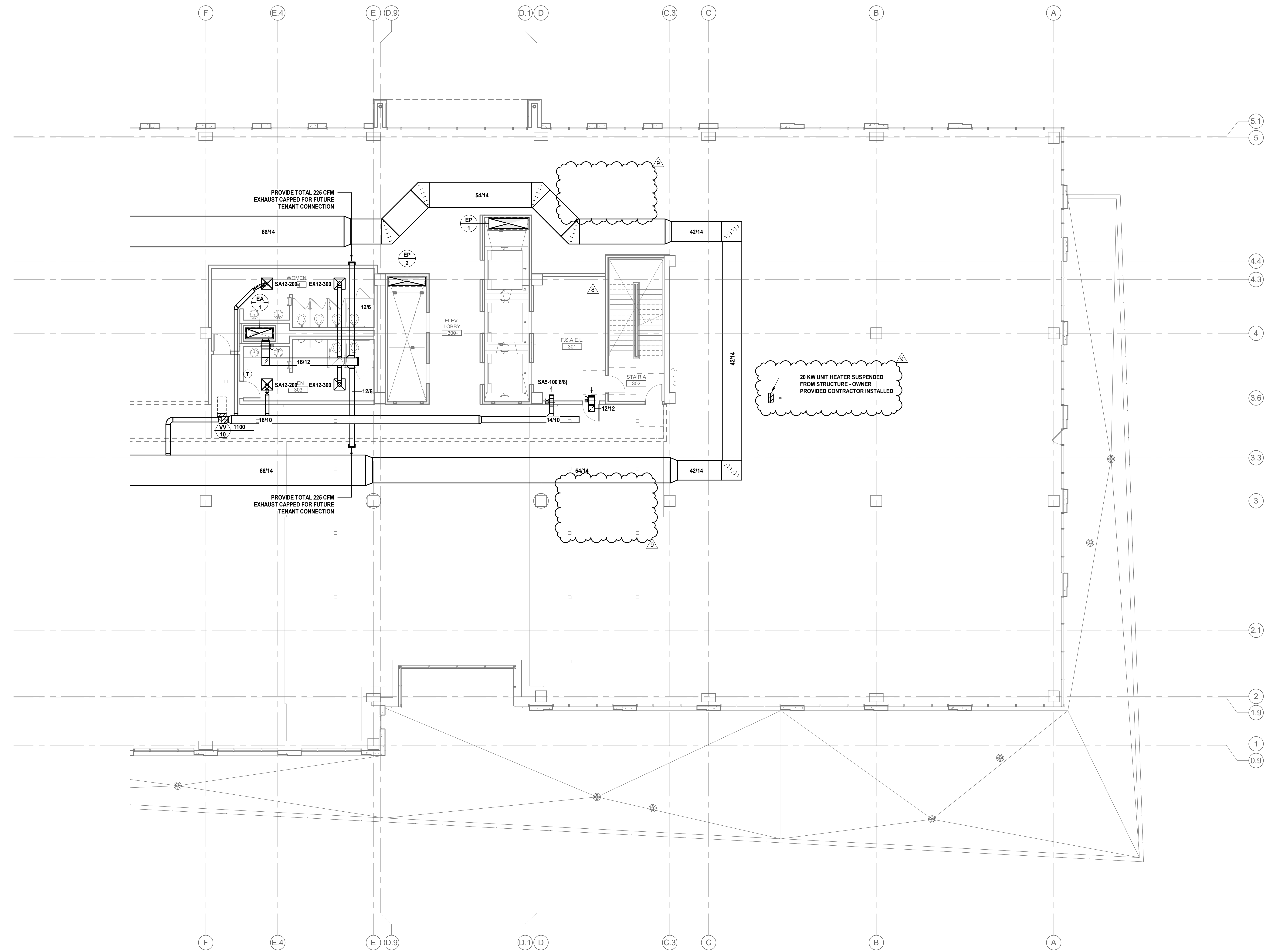
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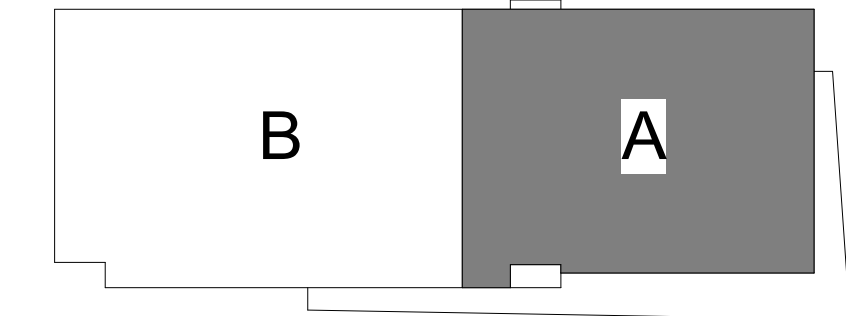
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REVISION LOG

DATE	DESCRIPTION	DELTA
10.01.2020	BUILDING PERMIT CONSTRUCTION DOCUMENTS	3
06.25.2021	REVISION #04	8
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01 FLOOR PLAN LEVEL 03 AREA A - MECHANICAL
 1/8" = 1'-0"



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FLOOR PLAN - LEVEL 3 - AREA A

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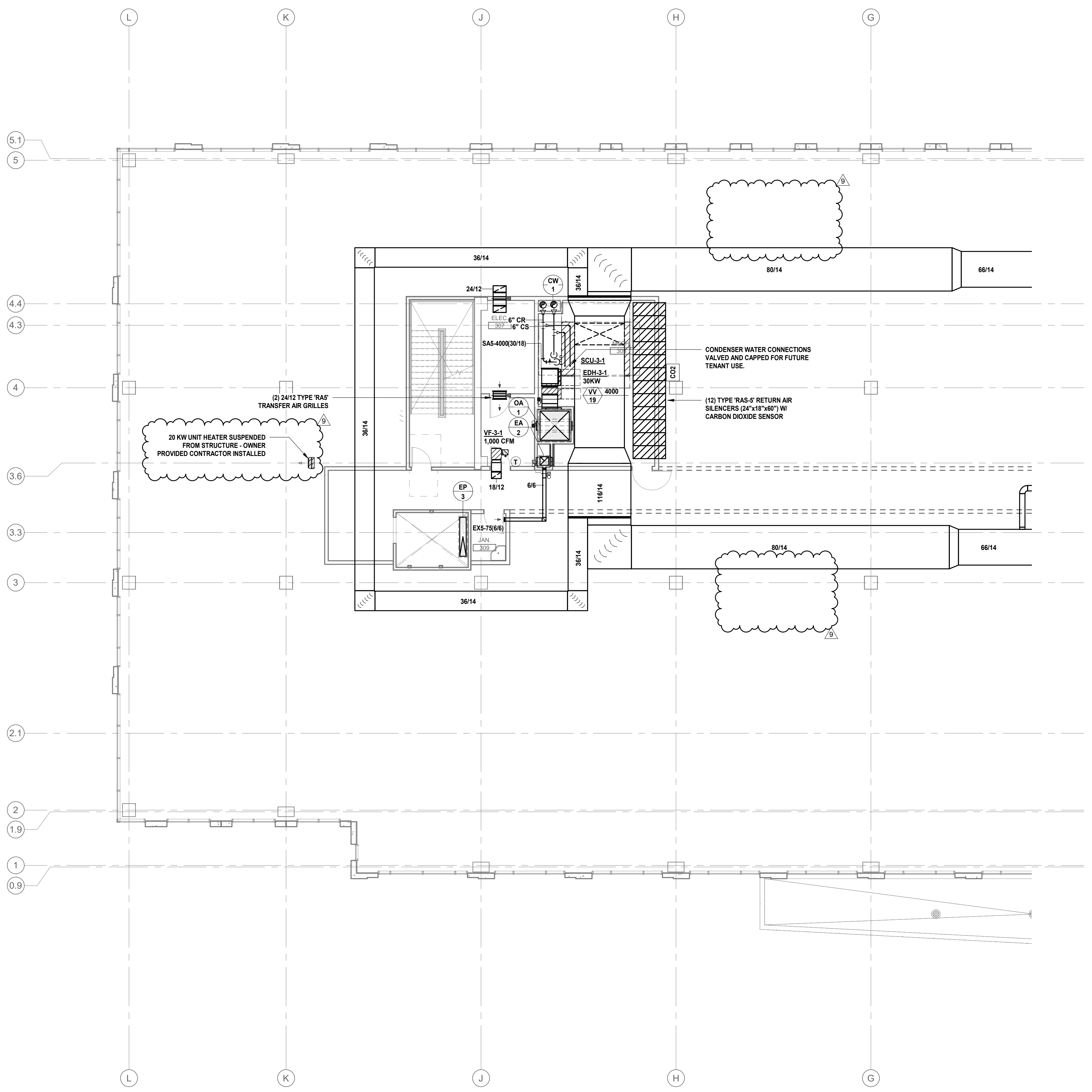
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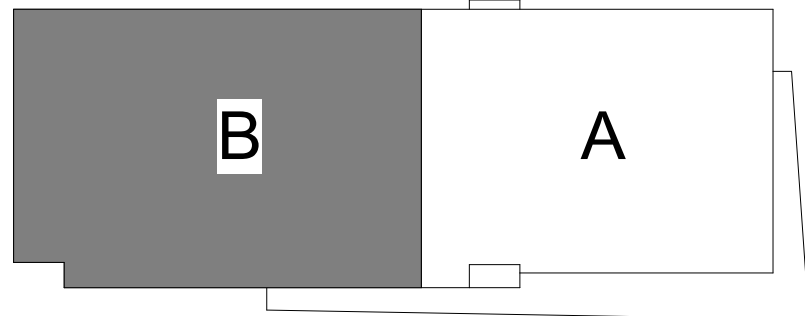
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REVISION LOG

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10.01.2020	BUILDING PERMIT CONSTRUCTION DOCUMENTS	3
07.19.2021	REVISION #05	9



01 FLOOR PLAN LEVEL 03 AREA B - MECHANICAL
 1/8" = 1'-0"



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 FLOOR PLAN - LEVEL 3 - AREA B

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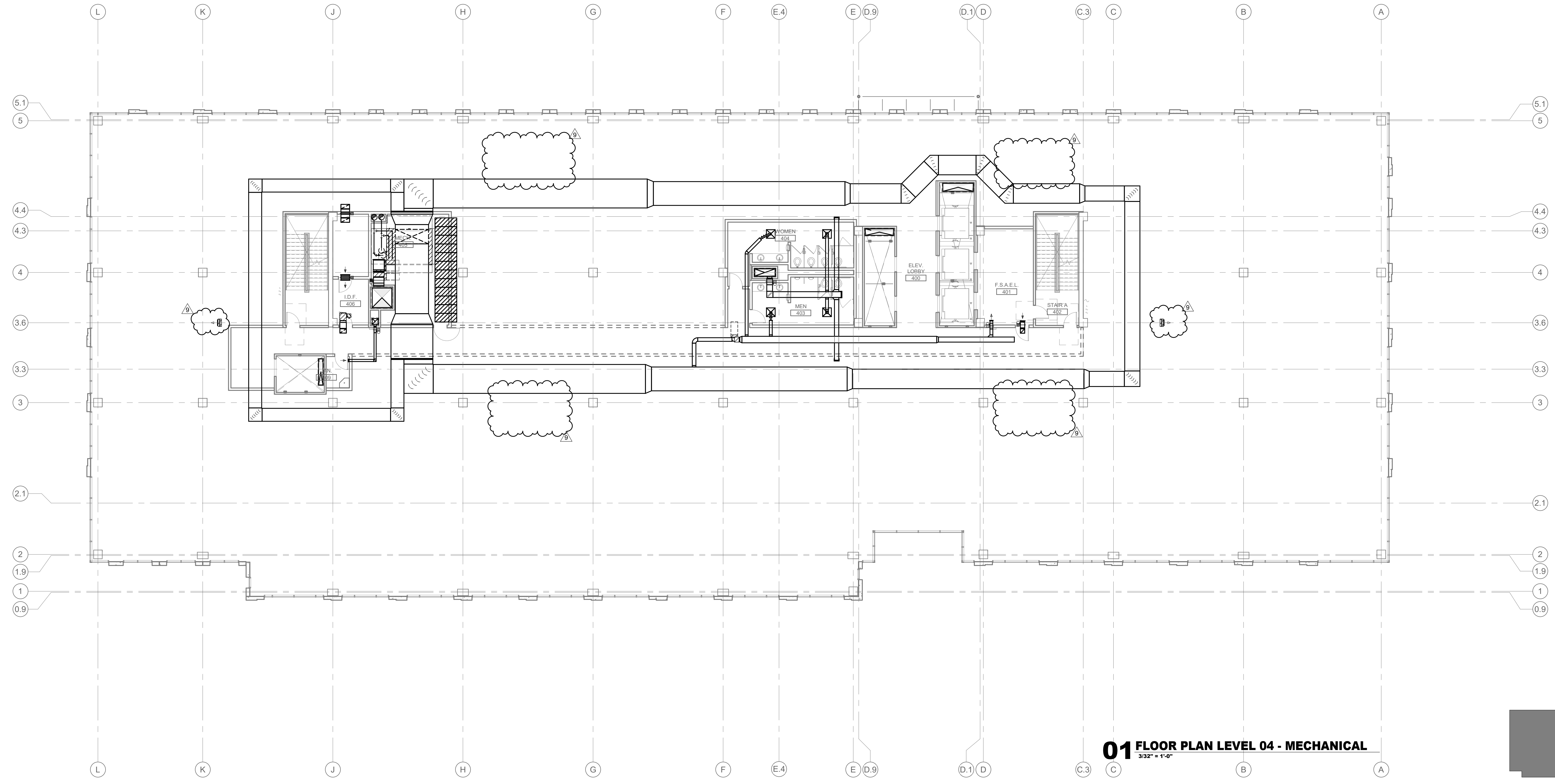
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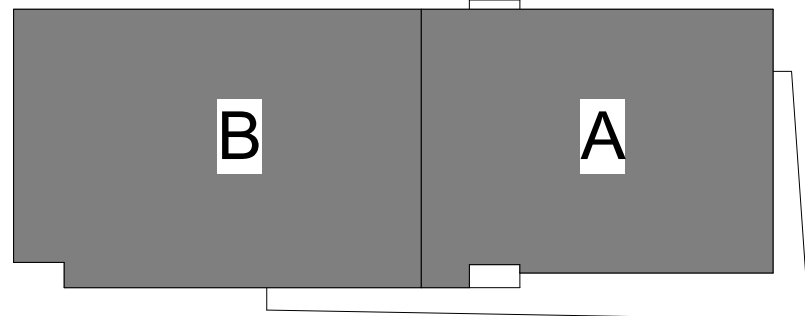
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REVISION LOG

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01 FLOOR PLAN LEVEL 04 - MECHANICAL
 3/32" = 1'-0"



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M2.104
 FLOOR PLAN - LEVEL 4 TO
 7 - OVERALL

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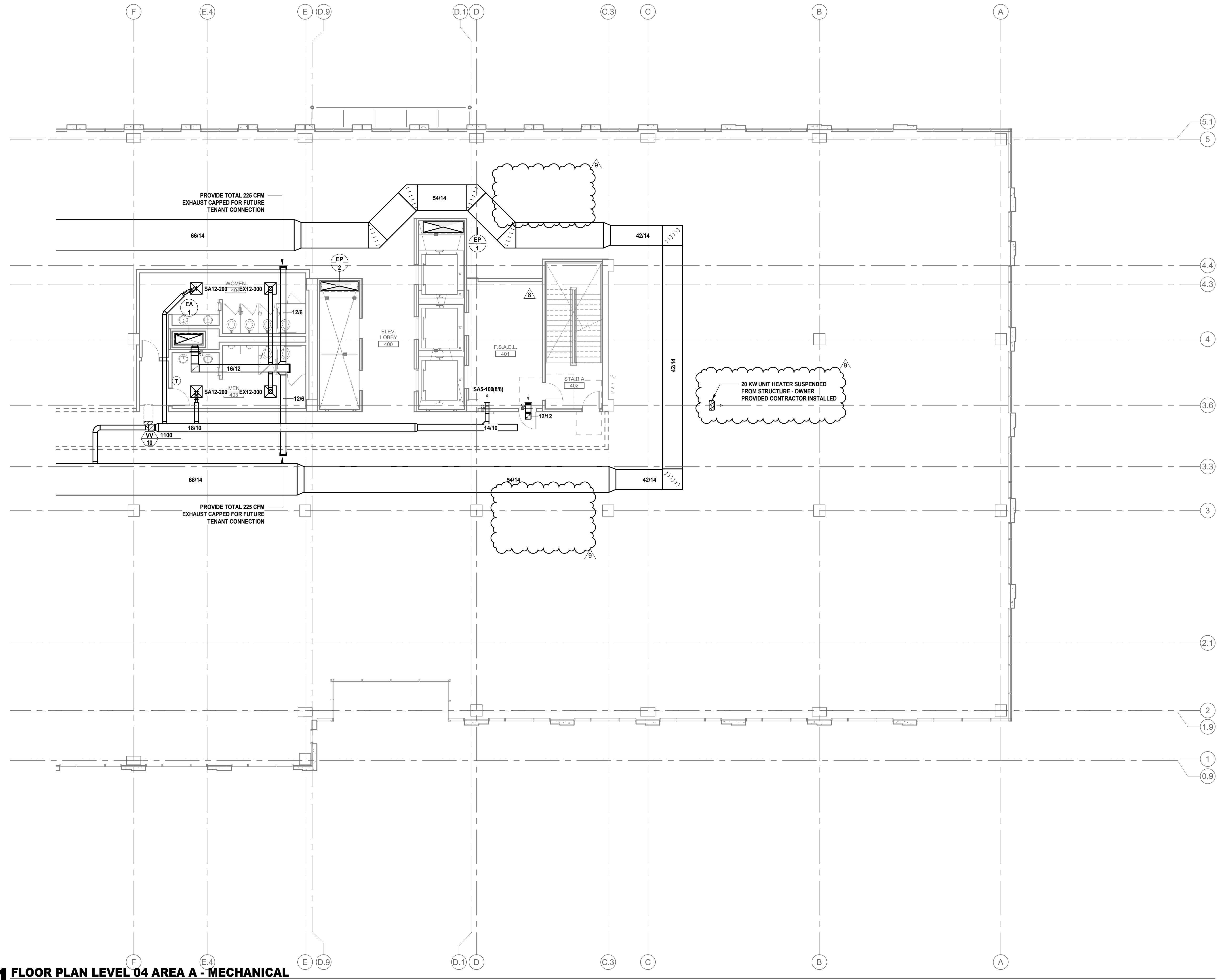
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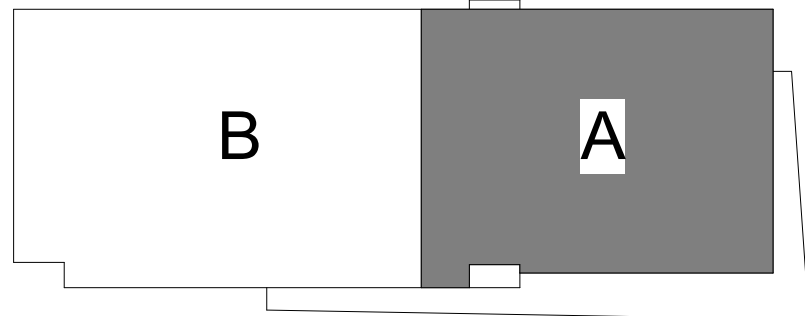
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REVISION LOG

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10.01.2020	BUILDING PERMIT CONSTRUCTION DOCUMENTS	3
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01 FLOOR PLAN LEVEL 04 AREA A - MECHANICAL
 1/8" = 1'-0"



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FLOOR PLAN - LEVELS 4 TO 7 - AREA A

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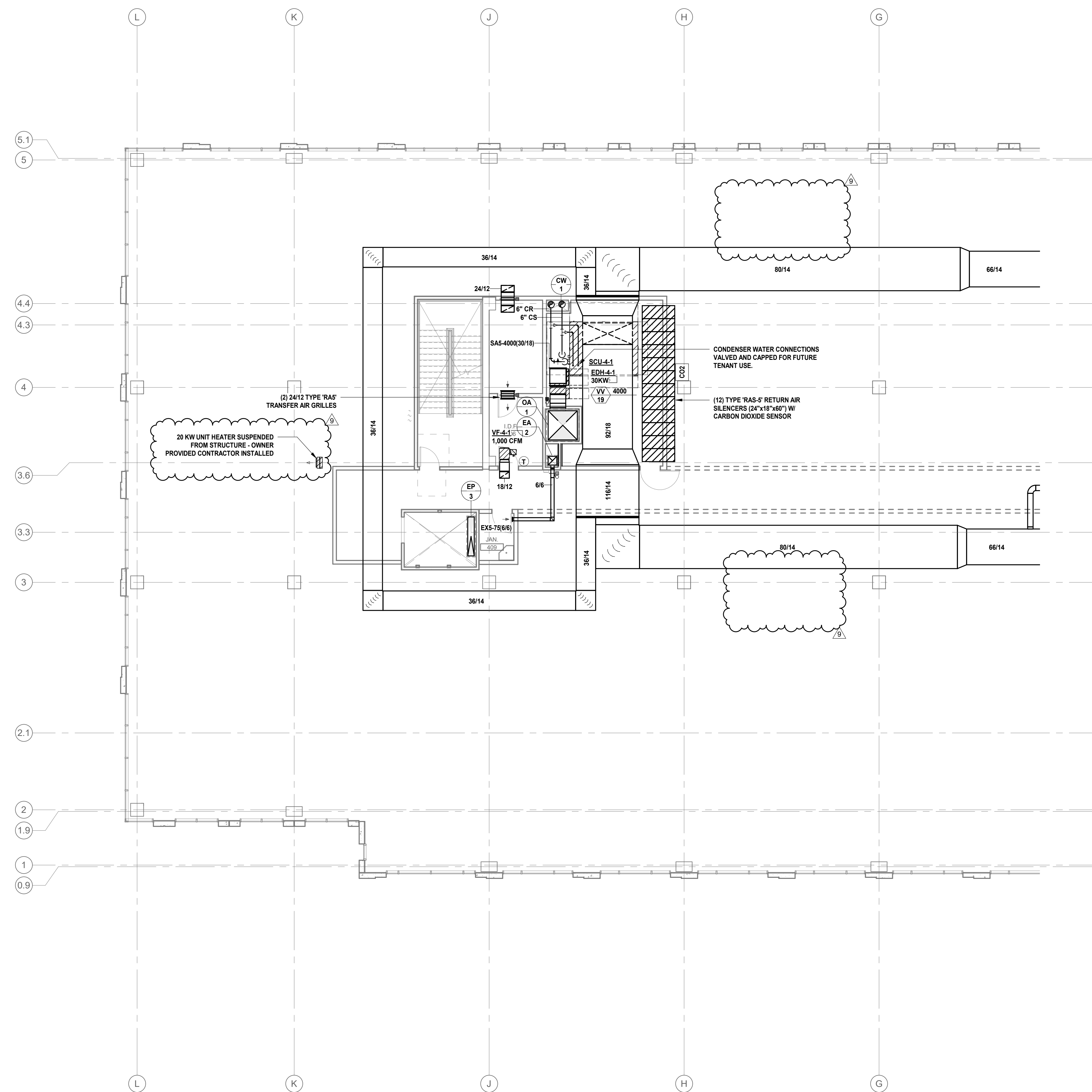
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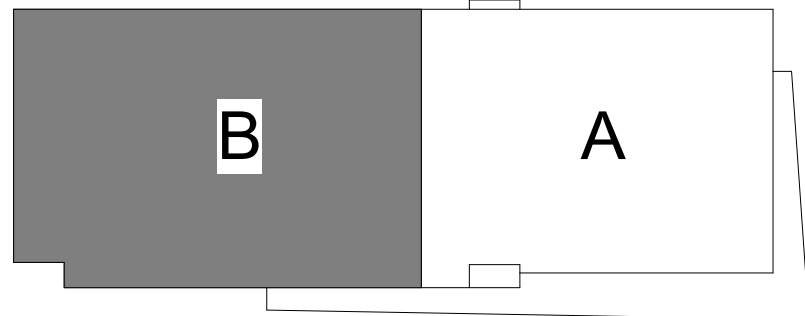
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01 FLOOR PLAN LEVEL 04 AREA B - MECHANICAL
 1/8" = 1'-0"



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FLOOR PLAN - LEVELS 4 TO 7 - AREA B

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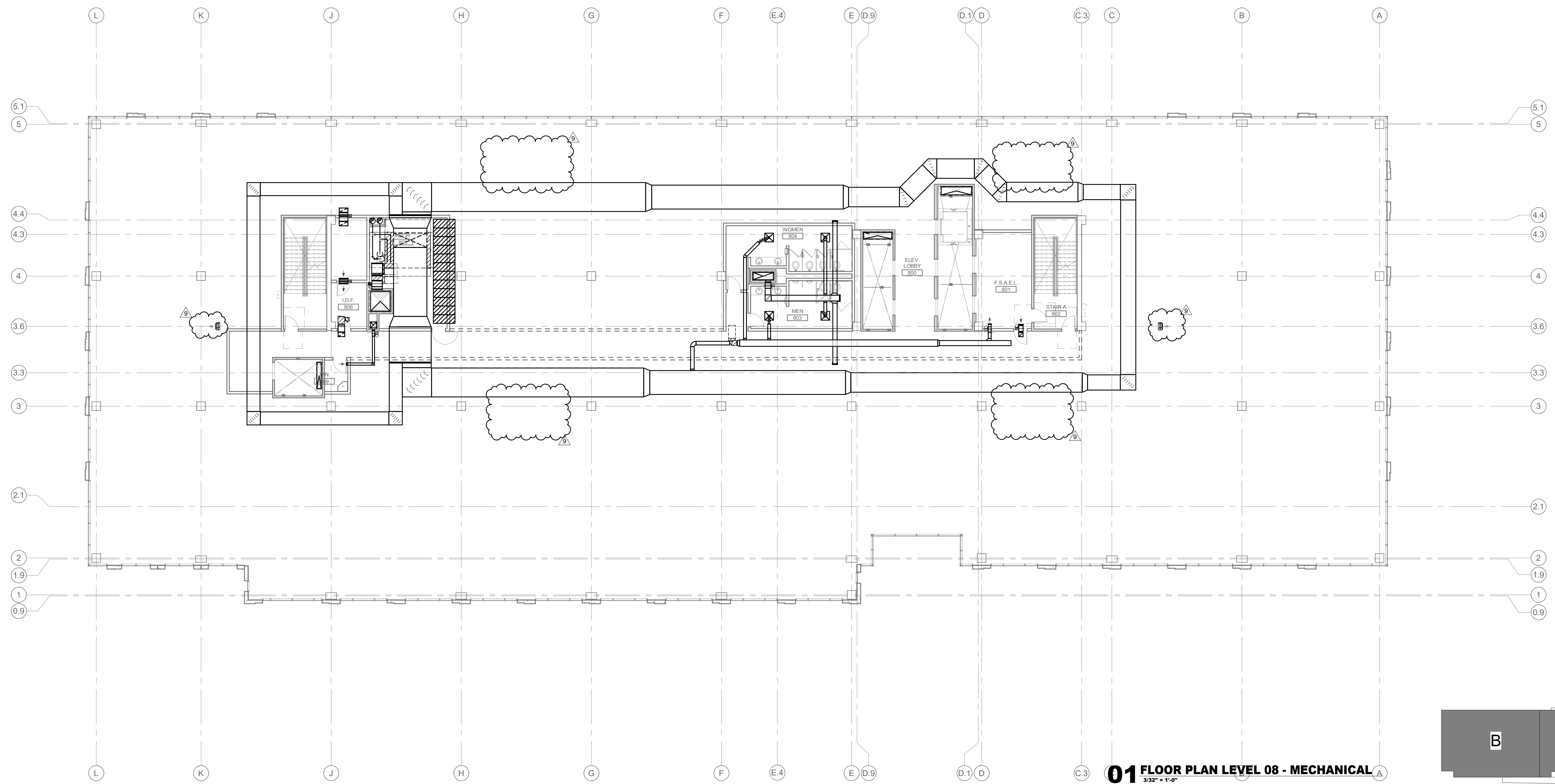
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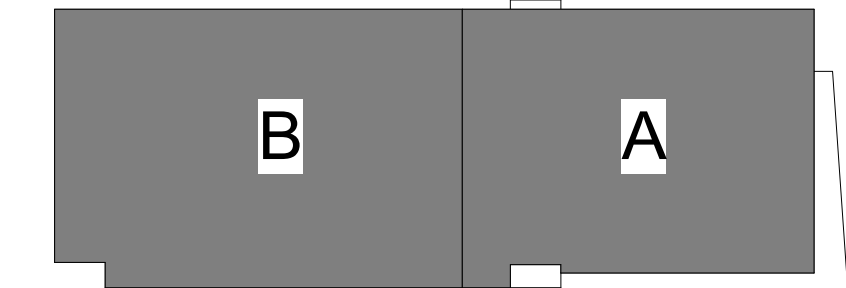
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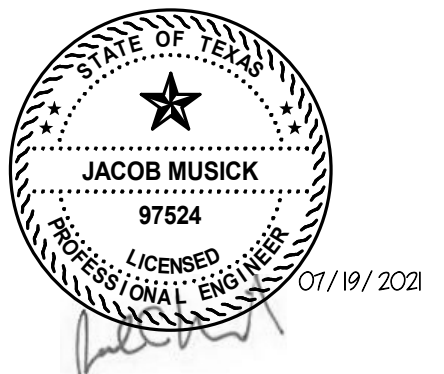
01 FLOOR PLAN LEVEL 08 - MECHANICAL
 3/32" = 1'-0"



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SHEET NO.
M2.108
 FLOOR PLAN - LEVEL 8 -
 OVERALL

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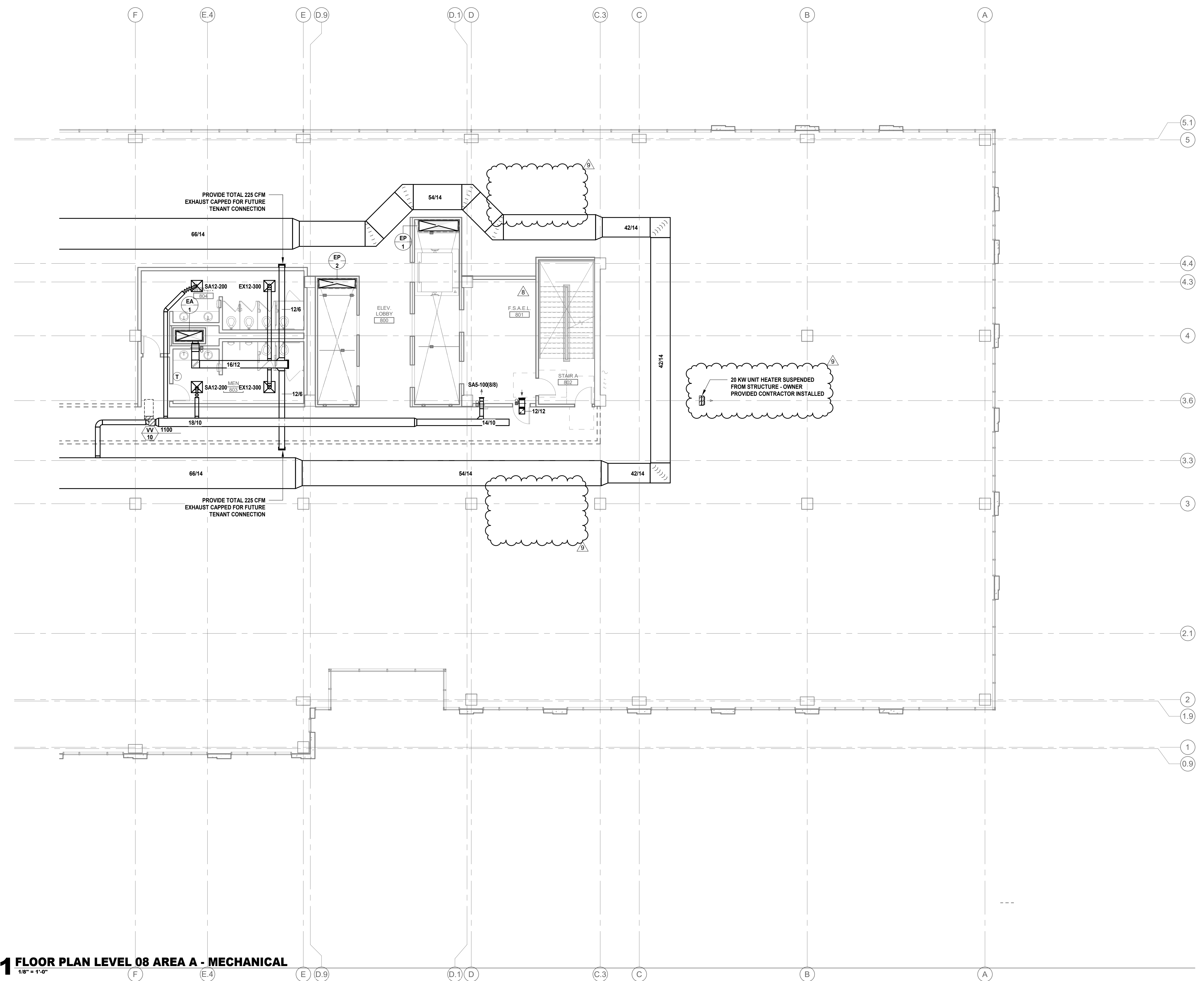
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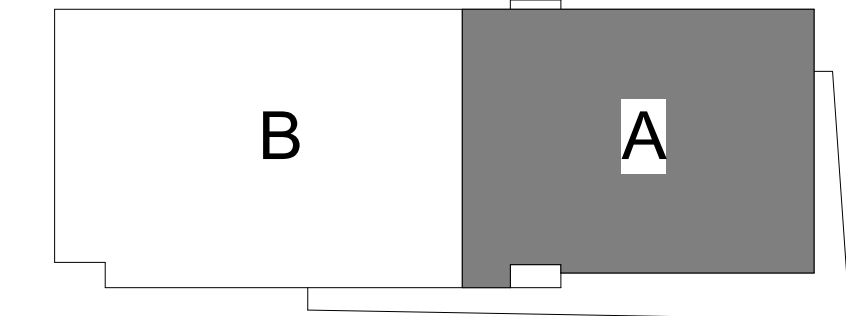
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01 FLOOR PLAN LEVEL 08 AREA A - MECHANICAL
 1/8" = 1'-0"



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M2.108A

FLOOR PLAN - LEVEL 8 - AREA A

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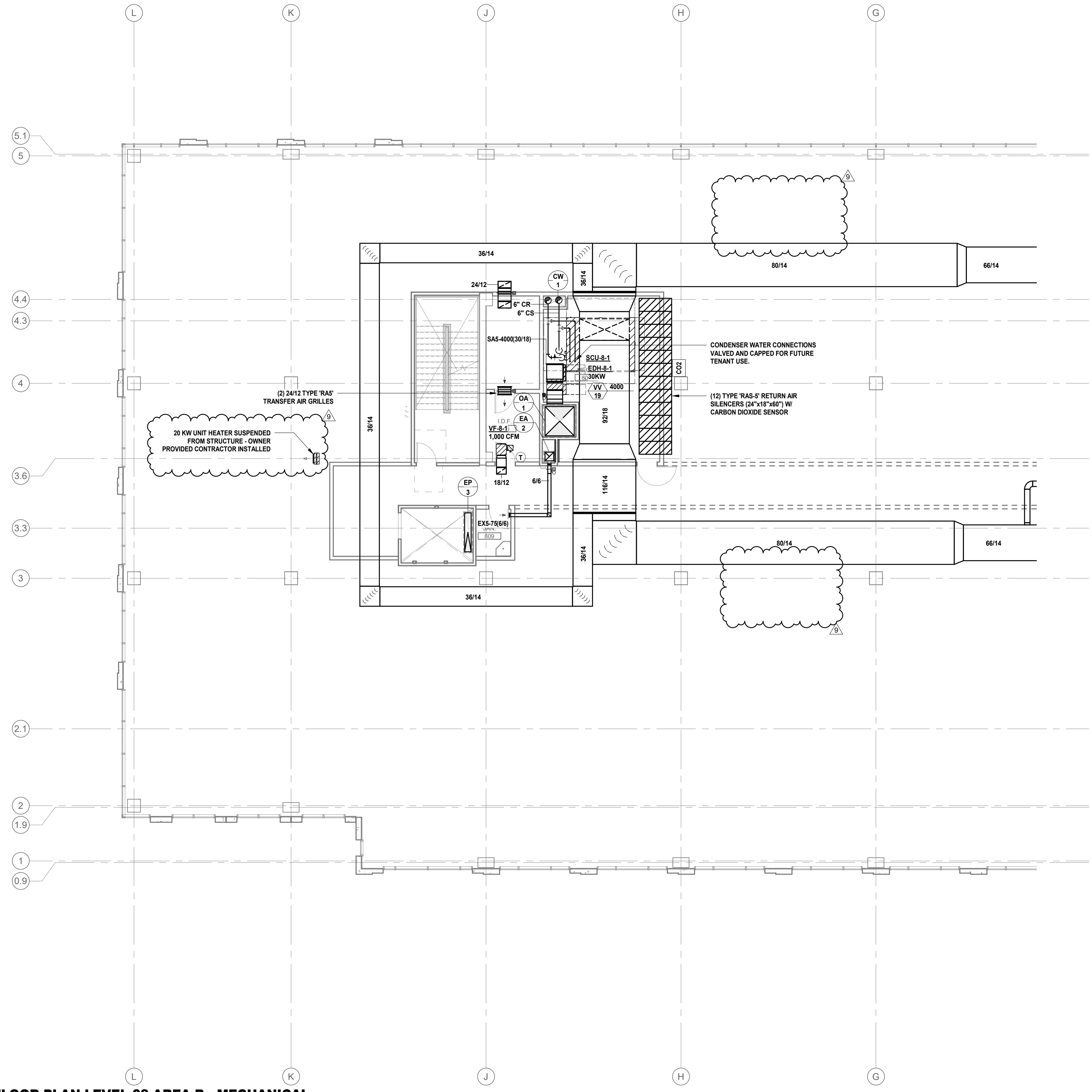
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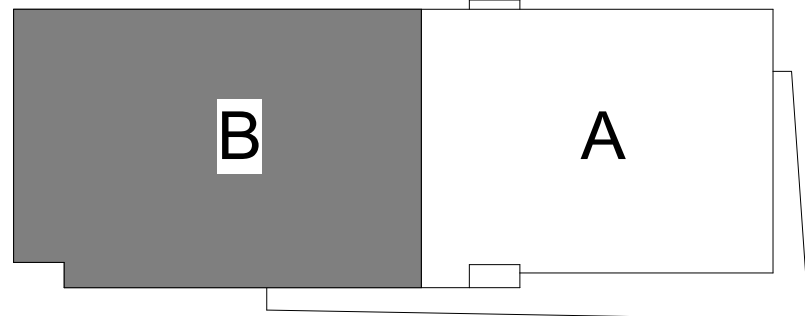
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07.19.2019	80% CONSTRUCTION DOCUMENTS
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01 FLOOR PLAN LEVEL 08 AREA B - MECHANICAL
 1/8" = 1'-0"



KEY PLAN

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FLOOR PLAN - LEVEL 8 - AREA B

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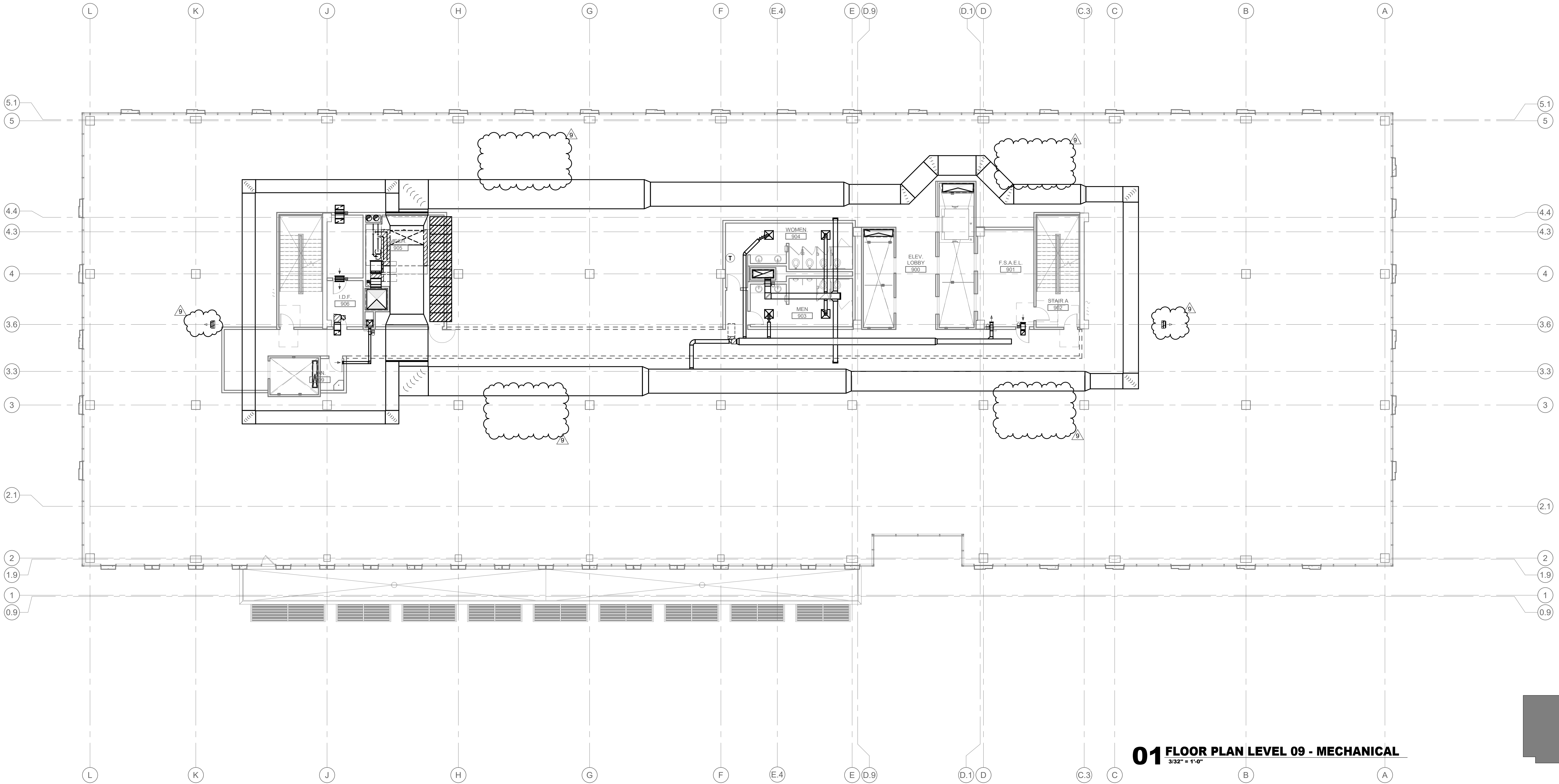
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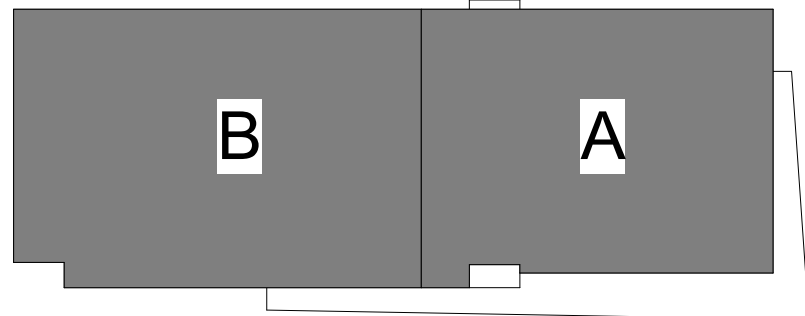
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01 FLOOR PLAN LEVEL 09 - MECHANICAL
 3/32" = 1'-0"



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FLOOR PLAN - LEVEL 9 - OVERALL

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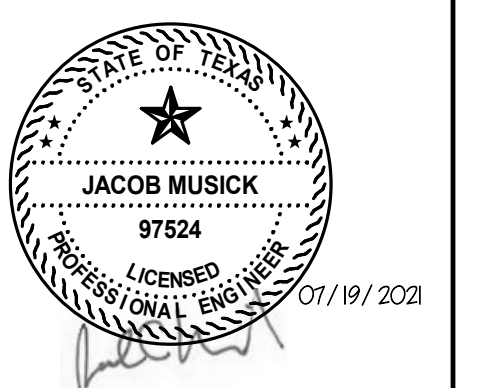
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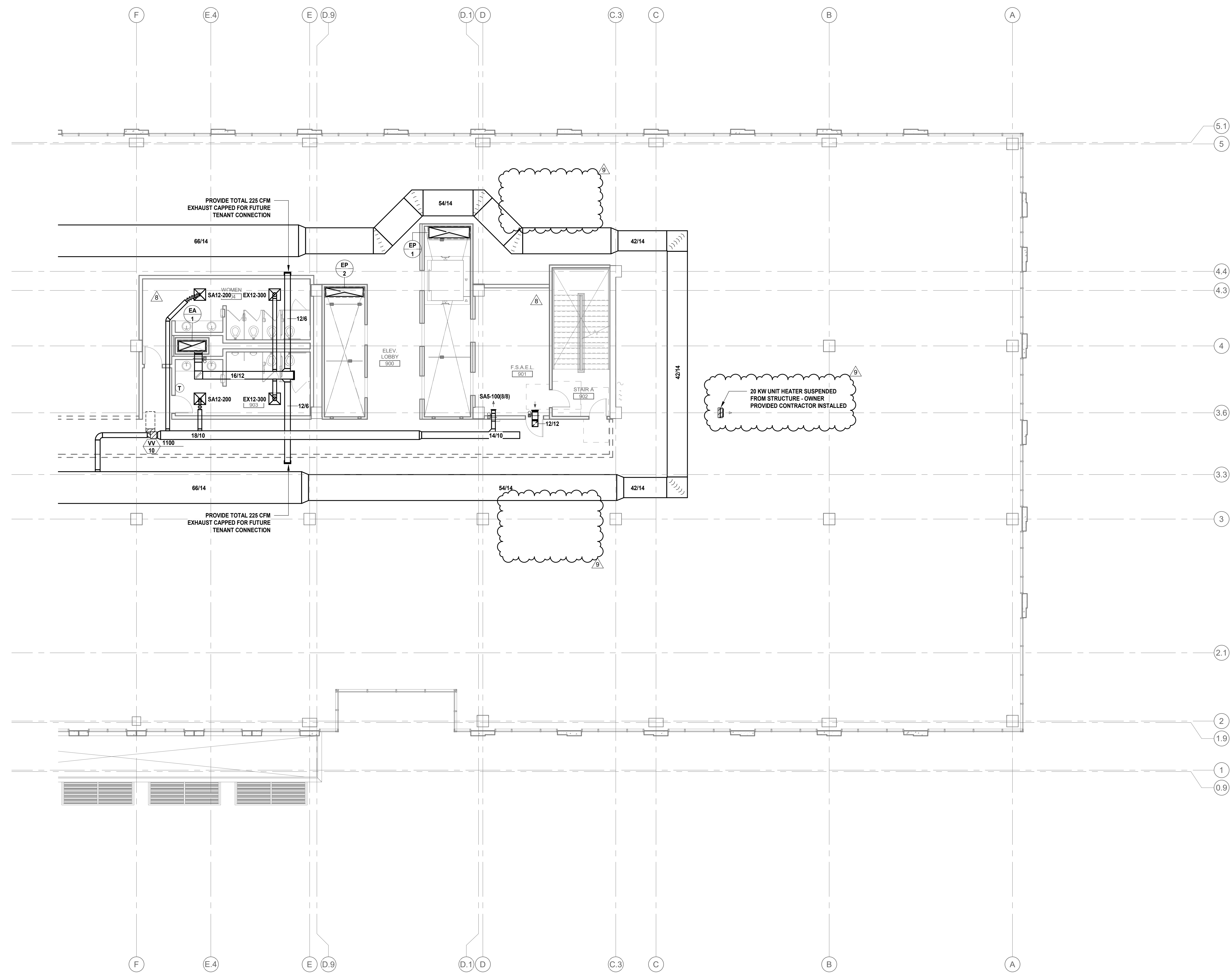
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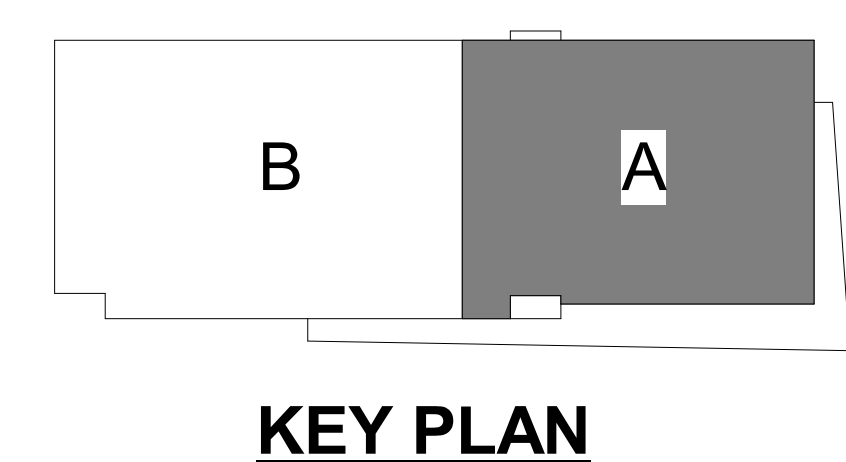
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01 FLOOR PLAN LEVEL 09 AREA A - MECHANICAL
 1/8" = 1'-0"



KEY PLAN

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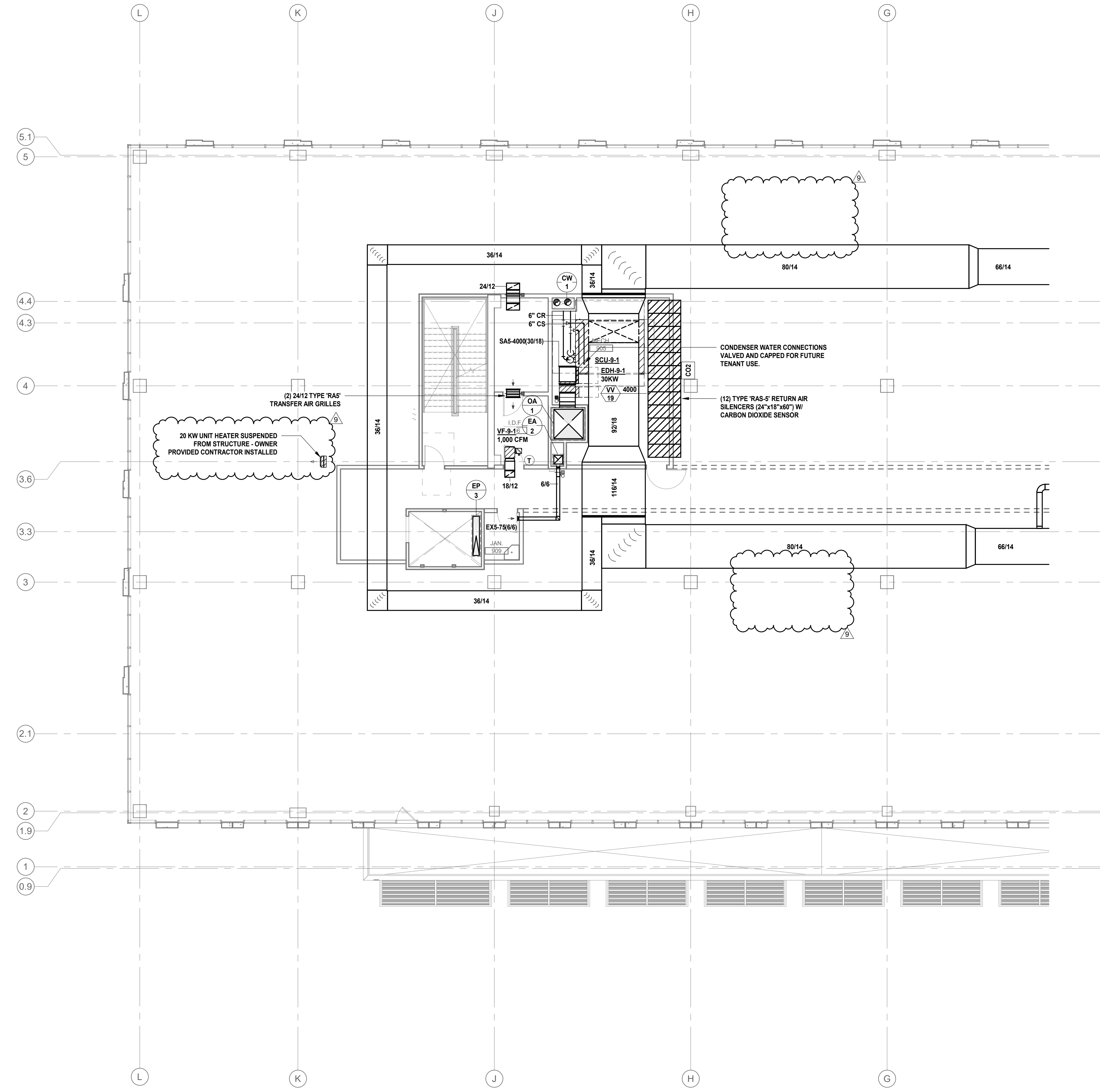
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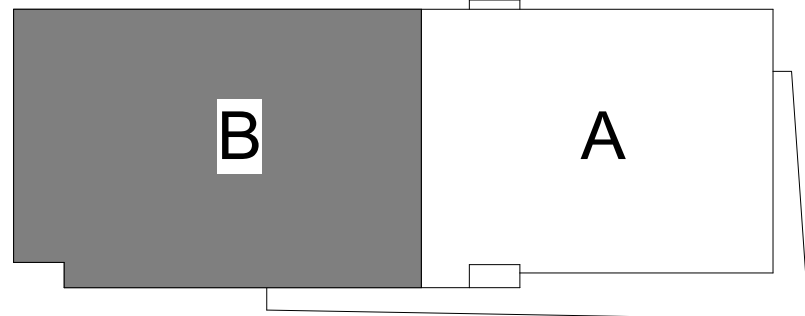
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01 FLOOR PLAN LEVEL 09 AREA B - MECHANICAL
 1/8" = 1'-0"



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FLOOR PLAN - LEVEL 9 - AREA B

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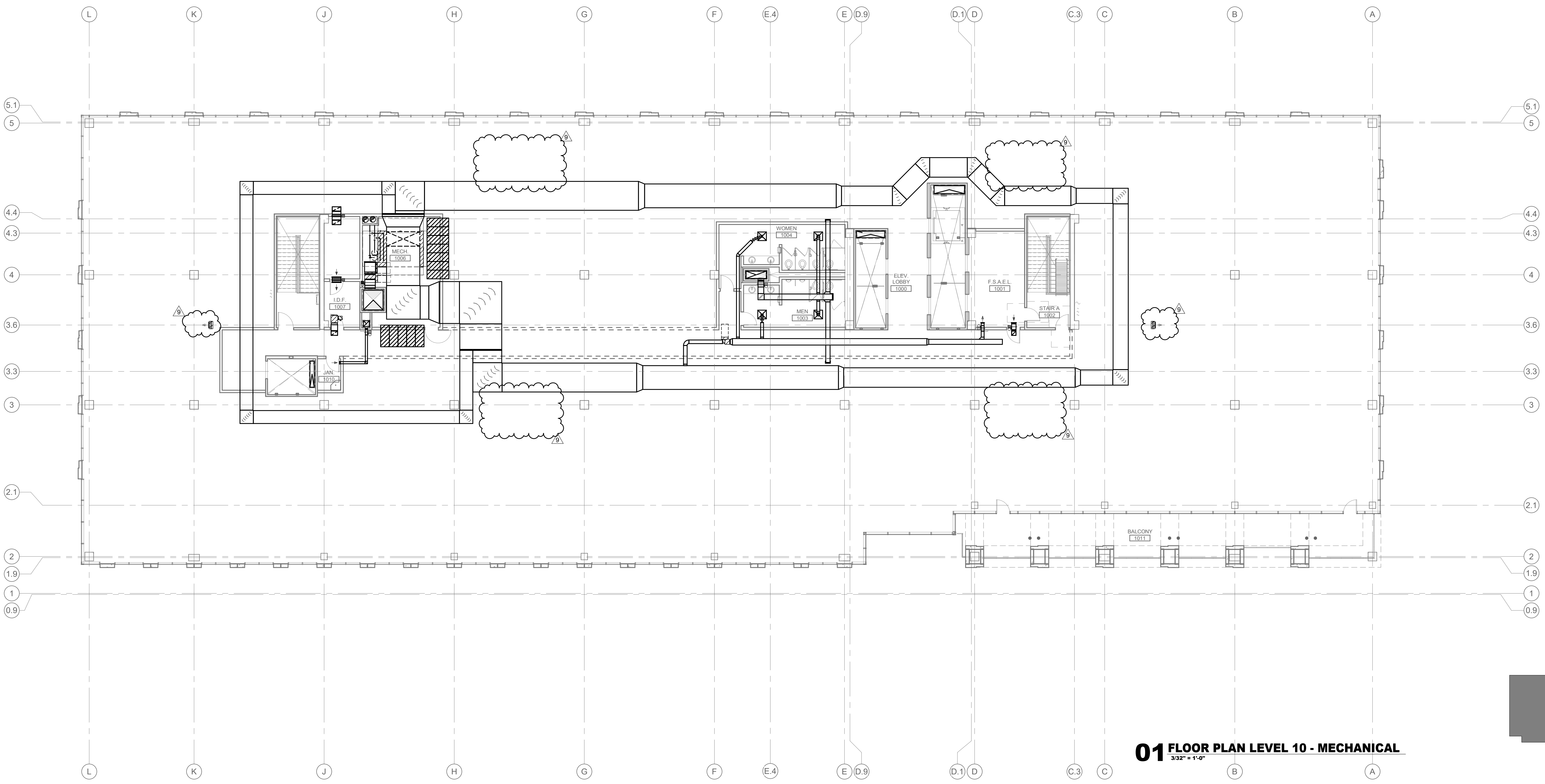
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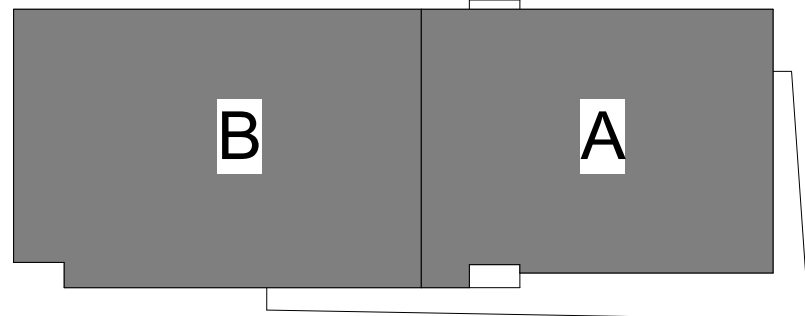
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FLOOR PLAN - LEVEL 10 - OVERALL

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01 FLOOR PLAN LEVEL 10 - MECHANICAL
332' x 110'



KEY PLAN

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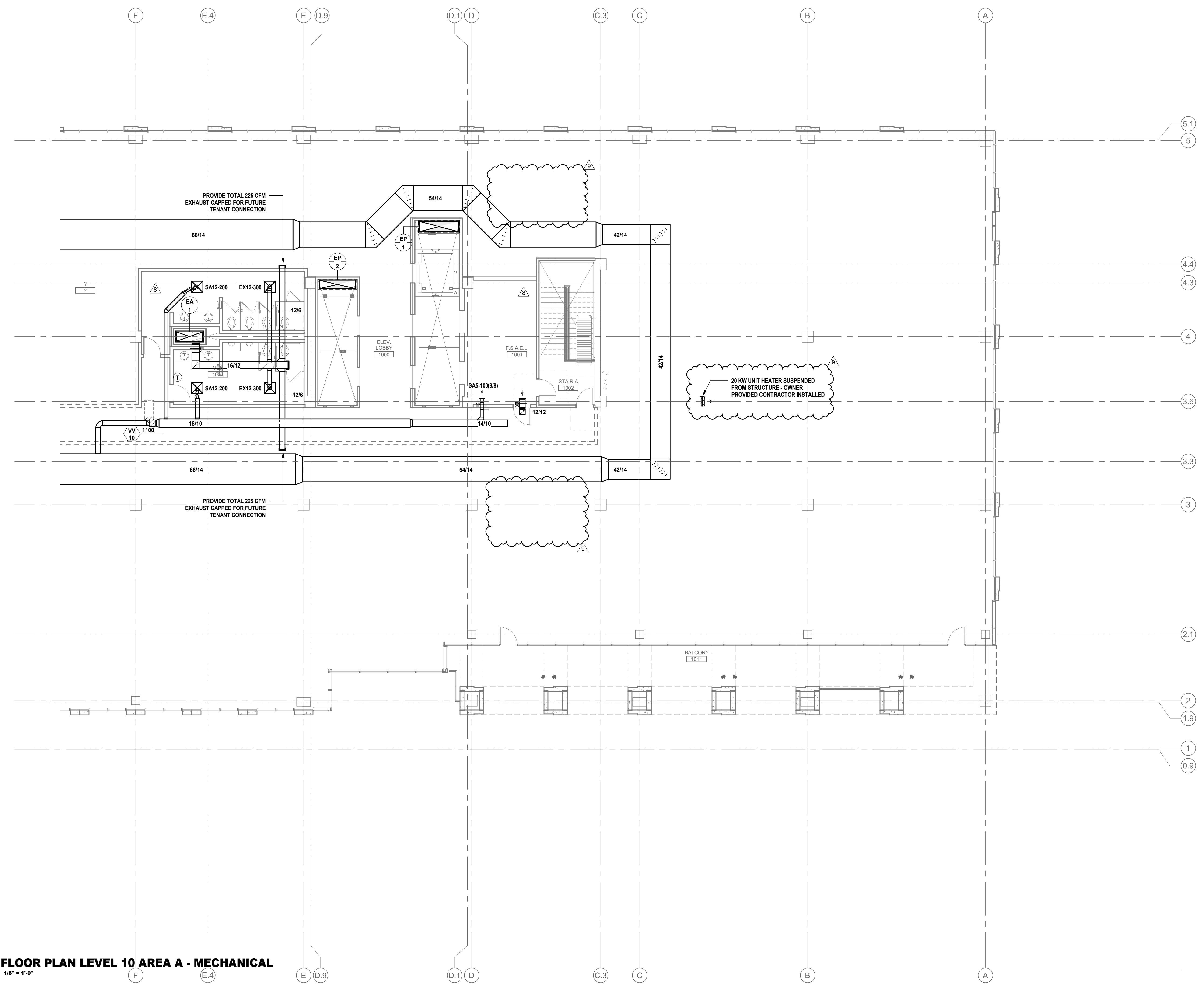
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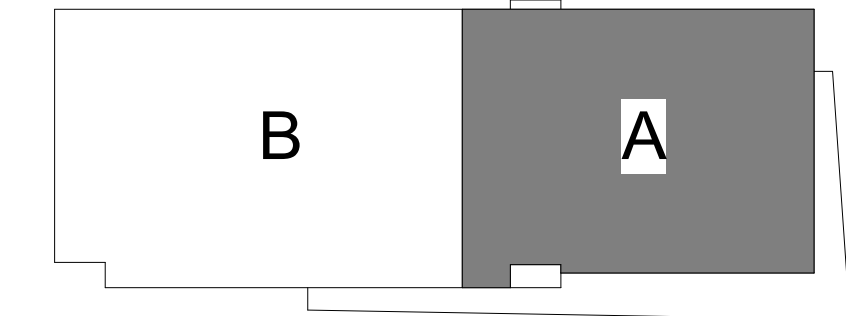
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01 FLOOR PLAN LEVEL 10 AREA A - MECHANICAL
 1/8" = 1'-0"



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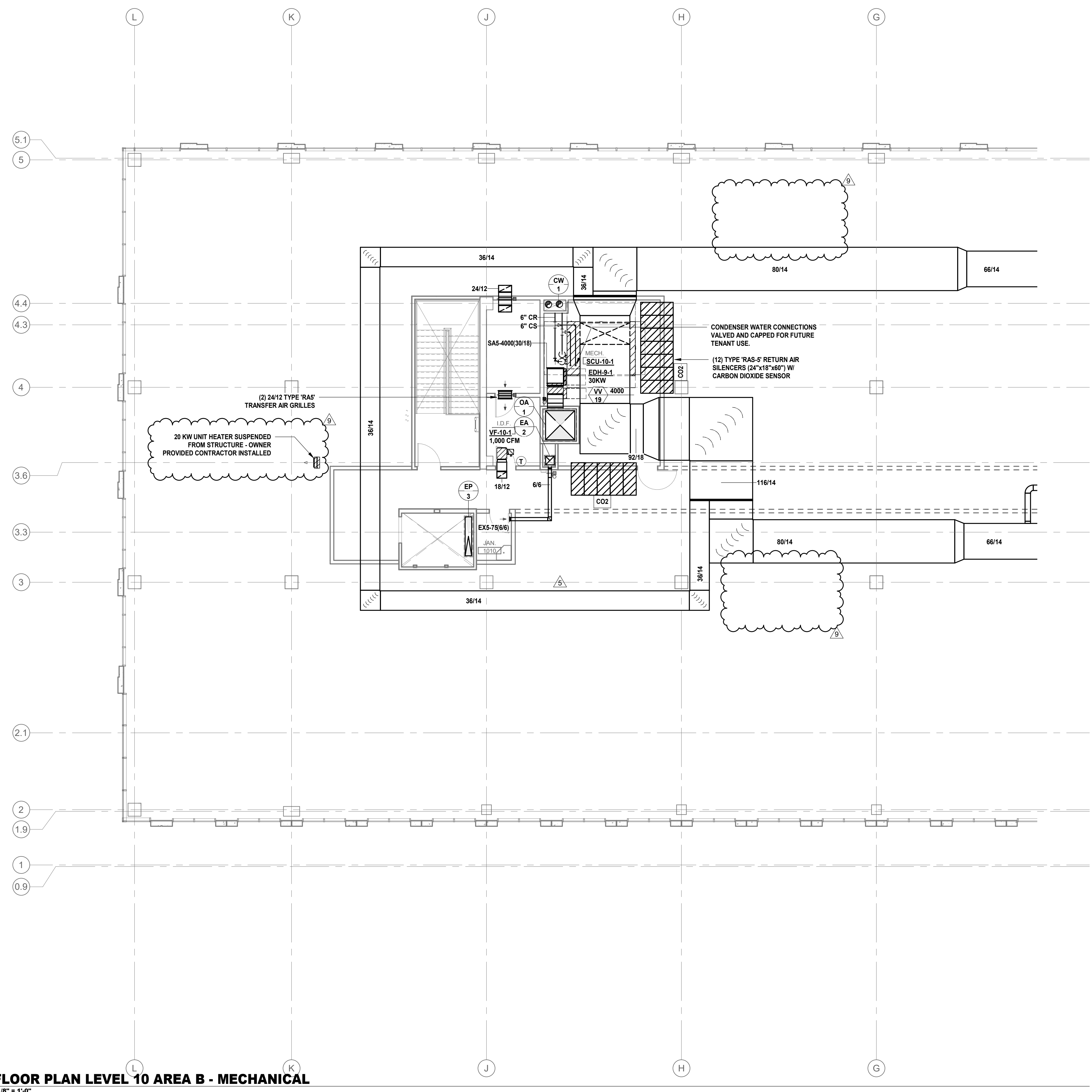
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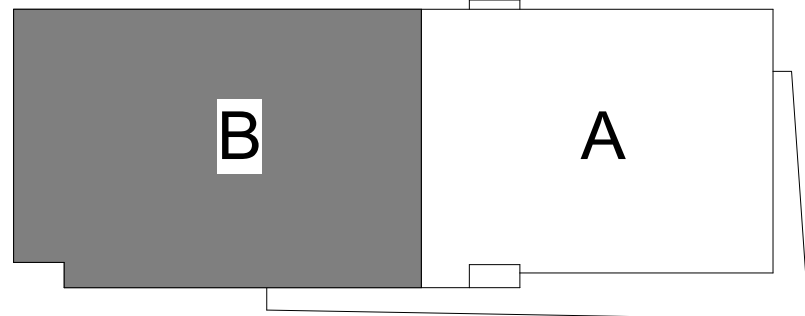
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01 FLOOR PLAN LEVEL 10 AREA B - MECHANICAL
 1/8" = 1'-0"



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FLOOR PLAN - LEVEL 10 - AREA B

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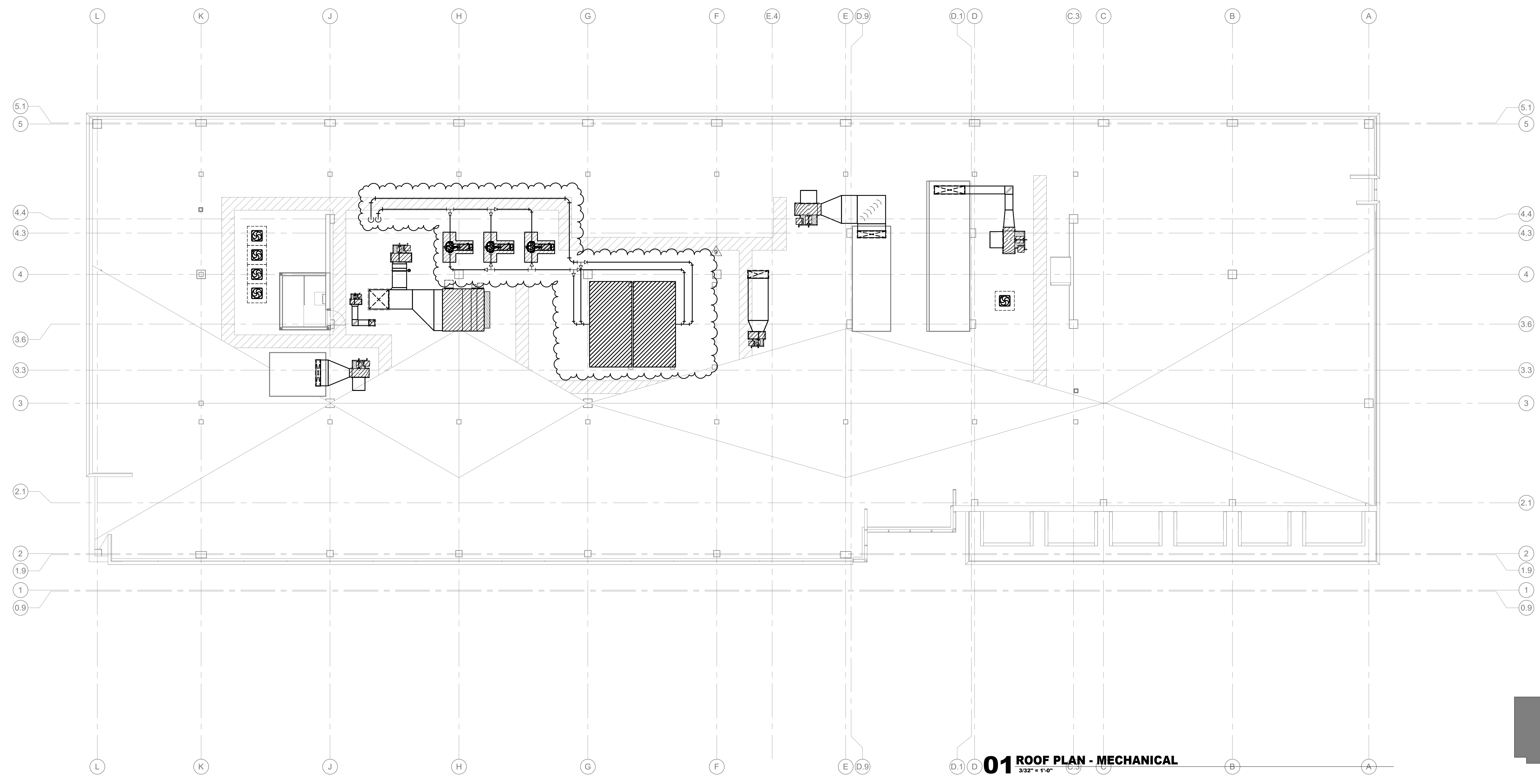
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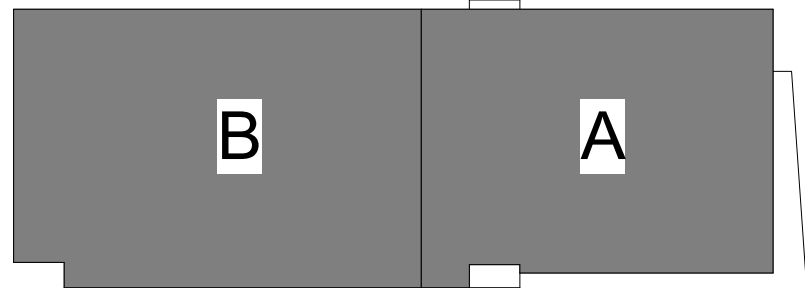
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01 ROOF PLAN - MECHANICAL
 3/32" = 1'-0"



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 ROOF PLAN - OVERALL

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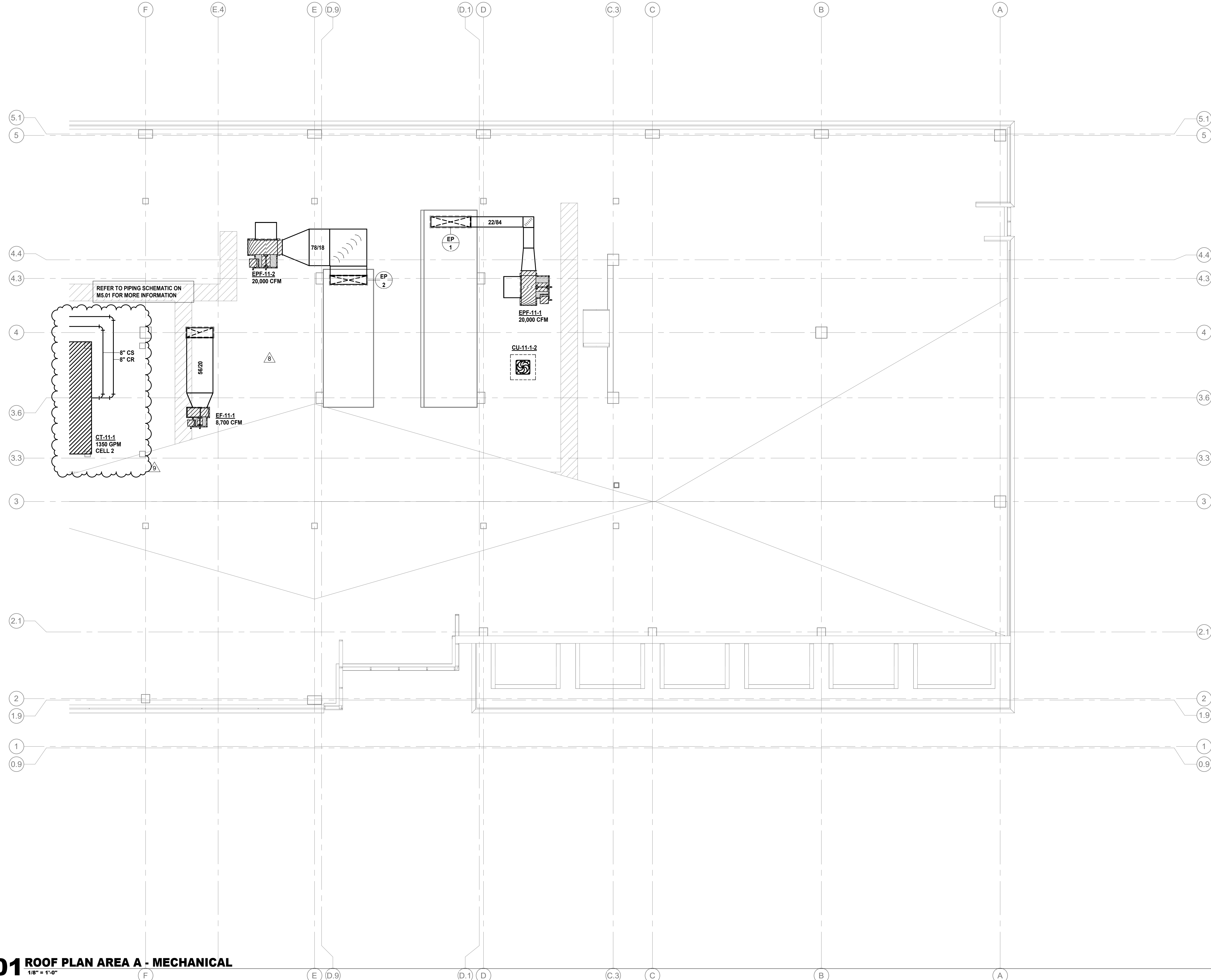
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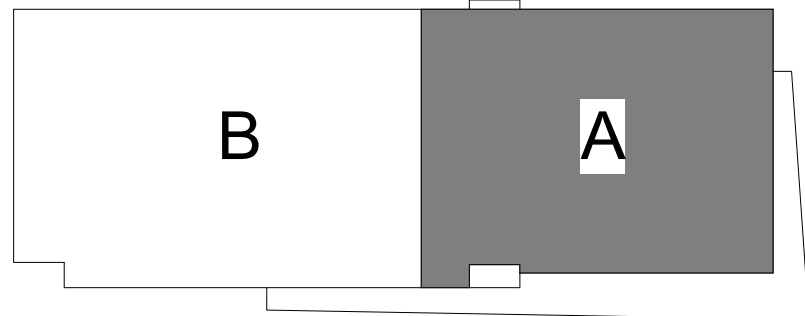
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06.25.2021	REVISION #04	8
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01 ROOF PLAN AREA A - MECHANICAL
 1/8" = 1'-0"



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 ROOF PLAN - AREA A

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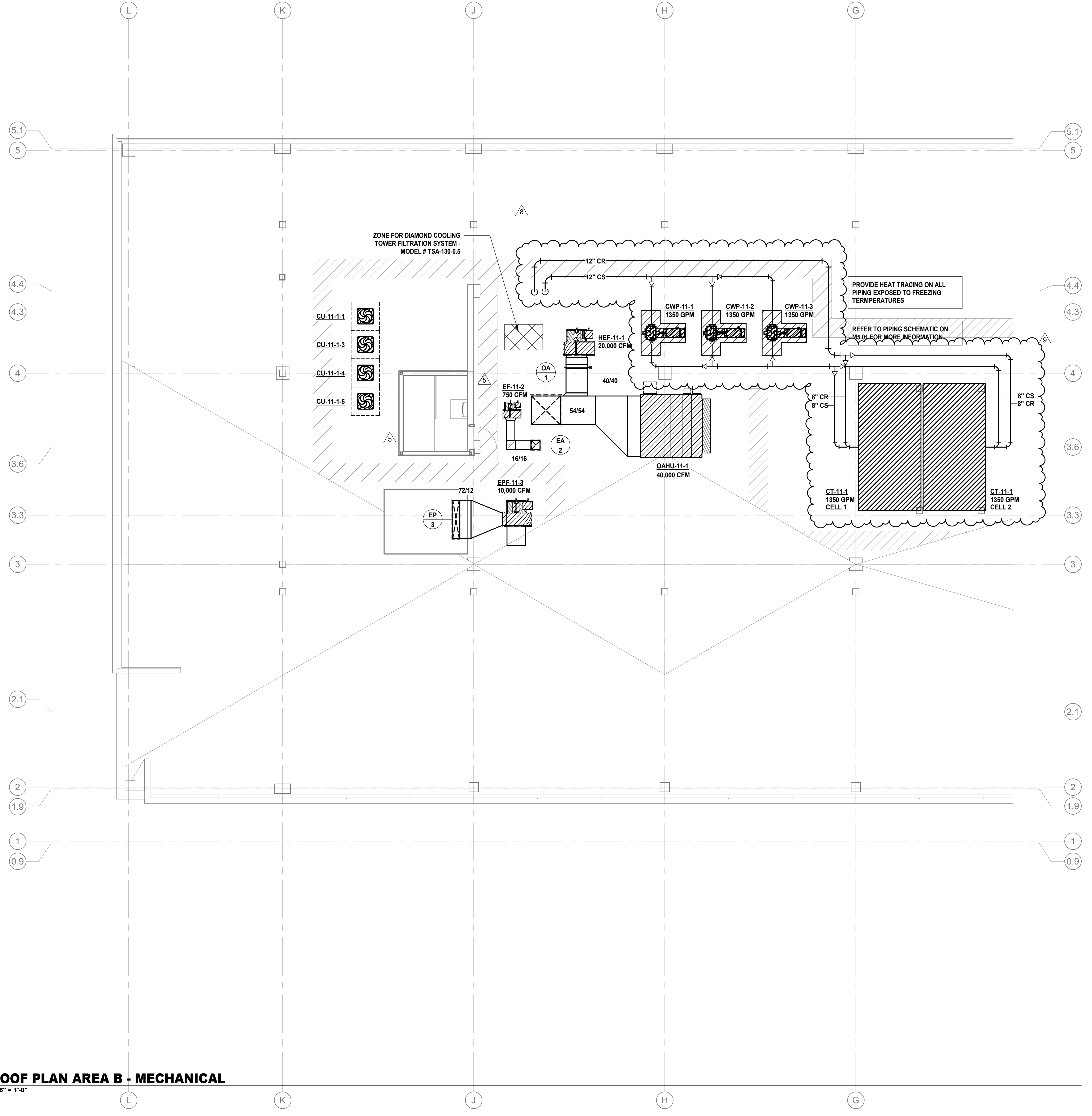
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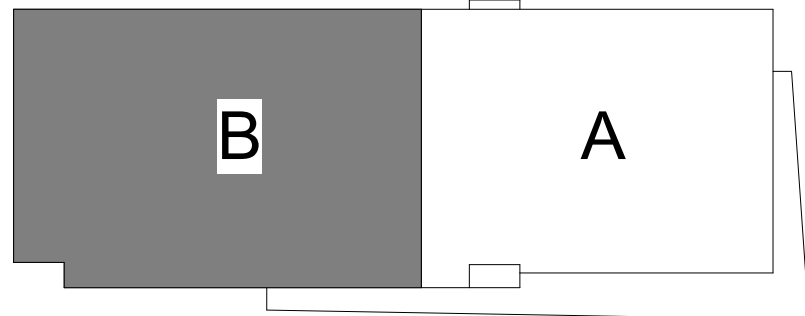
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02.19.2021	REVISION #02	5
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01 ROOF PLAN AREA B - MECHANICAL
 1/8" = 1'-0"



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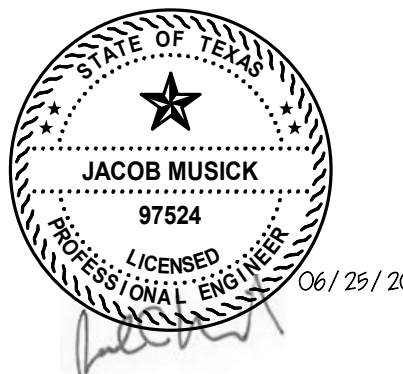
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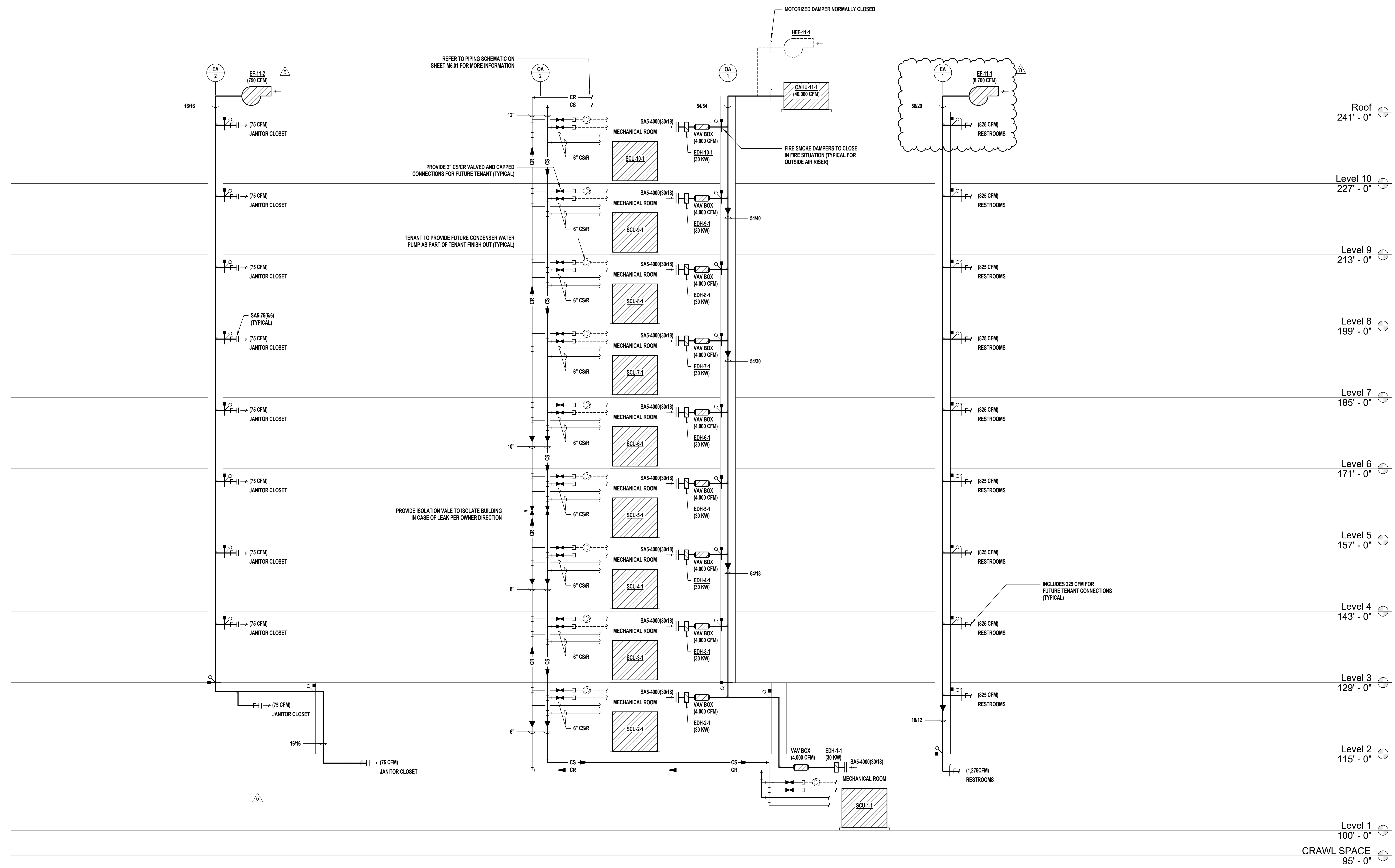
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OFFICE RISER DIAGRAMS

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01 CONDENSER WATER RISER, OUTSIDE AIR, EXHAUST AIR RISER DIAGRAMS - MECHANICAL
 N.T.S.

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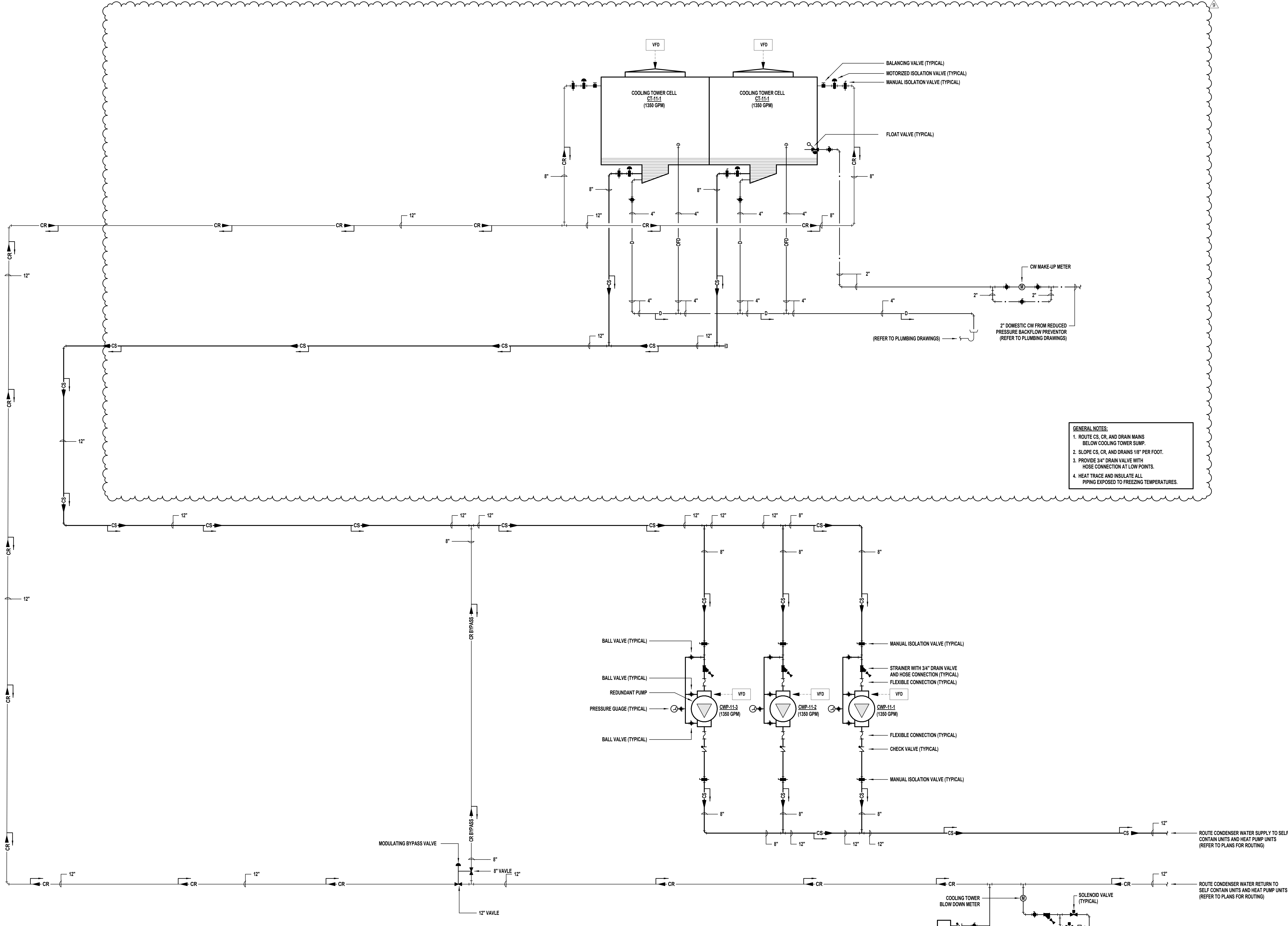
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GENERAL NOTES:
 1. ROUTE CS, CR, AND DRAIN MAINS BELOW COOLING TOWER SUMP.
 2. SLOPE CS, CR, AND DRAINS 1/8" PER FOOT.
 3. PROVIDE 3/4" DRAIN VALVE WITH HOSE CONNECTION AT LOW POINTS.
 4. HEAT TRACE AND INSULATE ALL PIPING EXPOSED TO FREEZING TEMPERATURES.



01 CONDENSER WATER PIPING SCHEMATIC - MECHANICAL
 N.T.S.

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CONDENSER WATER PIPING SCHEMATIC

AIR HANDLING UNITS					
Designation	QAHL11-1				
Location	Roof				
Serves	Office Outside Air				
Type	VAV				
Arrangement	Horz Draw-Thru				
Outside Air CFM	40,000				
Cabinet Construction	Outdoor				
Supply Fan:					
Wheel Type	Plug				
Fan RPM	1076				
Ext. S.P. ("wg)	2.5				
Total S.P. ("wg)	4.5				
Motor HP	50				
Voltage/Phase/Hz	480/3/60				
Volume Control	VFD				
Starter Furnished By	Mech Contractor				
Disconnect Furnished By	Elec Contractor				
Emergency Power	No				
Pre-Filter:	MERV 8				
Type	MEPM1				
Depth (in)	2				
Max. Velocity (fpm)	550				
Final Filter:	MERV 13				
Type	HEPM1				
Depth (in)	4				
Max. Velocity (fpm)	400				
Approx. Dimensions:					
Height (in)	106				
Width (in)	118				
Length (in)	116				
Operating Weight (lbs)	6850				
Based on DAIKIN:	QAH071GVDM				
Notes:					
1. For constant volume units, external pressure drop includes ductwork, dampers, and filter dirt loading.					
2. For VAV units, external pressure drop includes ductwork, terminal box, dampers, and filter dirt loading.					
3. Provide OSHA approved belt guard.					
4. Provide smoke detector in supply and return of all units 15,000 CFM or more.					
5. Provide smoke dampers in the supply and return ducts for all units 15,000 CFM or more.					
6. Height does not include 4" high housekeeping pad (indoor units) or 14" roof curb (outdoor units)					
7. Refer to Specification Section for further requirements.					

SELF-CONTAINED UNITS					
Designation	SCUL1-1				
Location	Office Mech. Room				
Serves	Office				
Type	VAV				
Supply Air CFM	32,000				
Outside Air CFM	4,000				
Supply Fan:					
Wheel Type	Forward Curved				
Est. S.P. ("wg)	3.0				
Total S.P. ("wg)	5.0				
Motor HP	50				
Voltage/Phase/Hz	480/3/60				
Volume Control	VFD				
DIX Cooling Coil:					
Face & Bypass?	No				
Coil Cfm	32,000				
EAT (DBWB)	78.365.0				
LAT (DBWB)	52.051.5				
Min. Flow/Max. FPI	6 / 12				
Refrigerant Type	Mifr. Standard				
Number Of Circuits	Mifr. Standard				
Circuiting	Standard				
Max. Air P.D. ("wg)	1				
Max. Face Vel. (FPM)	525				
Water Cooled Condenser:					
Waterside Economizer	No				
Water Flow (gpm)	310				
E.W.T. (deg F)	65				
L.W.T. (deg F)	66				
Max. Water P.D. (ft)	35				
Number of Compressors	6				
Capacity Reduction (%)	16				
Compress. RLA	18.5				
Electric Service For Unit:					
Minimum Ckt. Ampacity	184				
Max Overcurrent Prot.	225				
Voltage/Phase/Hz	480/3/60				
Disconnect Furnished By	Elec Contractor				
Emergency Power	No				
Filter:	MERV 13				
Type	HEMP1				
Depth (in)	2				
Max. Velocity (fpm)	550				
Max. Clean P.D. ("wg)	0.28				
S.A. Discharge Plenum	Yes				
Approx. Dimensions:					
Height (in)	112				
Width (in)	126				
Length (in)	98				
Operating Weight (lbs)	13000				
Based on DAIKIN:	SWP099HSH				
Notes:					
1. For constant volume units, external pressure drop includes ductwork, dampers, and filter dirt loading.					
2. For VAV units, external pressure drop includes ductwork, terminal box, dampers, and filter dirt loading.					
3. Provide OSHA approved belt guard.					
4. Provide smoke detector in supply and return of all units 15,000 CFM or more.					
5. Provide smoke dampers in the supply and return ducts for all units 15,000 CFM or more unless the unit serves one floor and is located on that floor.					
6. Height does not include 4" high housekeeping pad.					
7. Refer to Specification Section for further requirements.					

DUCT HEATERS - ELECTRIC					
Designation	EDM1-1				
Location	Office Mech. Room				
Serves	Outside Air Pre-Heat				
Duct Size (W x H, inches)	20x18				
Cfm	4000				
Capacity (KW)	30				
Stages	3				
Voltage/Phase/Hz	480/3/60				
Disconnect Furnished By	Elec Contractor				
Emergency Power	No				
EAT (deg F)	16				
LAT (deg F)	40				
Notes:					
1. Refer to Specification Section for further requirements.					

OPEN-CIRCUIT COOLING TOWER					
Call Designation	CT-11-1				
Location	Roof				
Serves	Cond. Water				
Fan Arrangement	Induced Draft				
Flow Thru Fill	Counter-Flow				
Discharge	Vertical				
Fabrication	Factory				
Number Of Cells	2				
Nominal Tons Per Cell	450				
Total Nominal Tons	900				
GPM Per Cell	1350				
Total GPM	2700				
EWT (deg F)	85				
LWT (deg F)	85				
Type Of Drive	Belt				
Range (deg F)	10				
Approach (deg F)	8				
Ambient Wet Bulb (deg F)	79				
Fan:					
Type Of Fan	Propeller				
Fan CFM (per cell)	130,100				
External S.P. ("w)	0				
Fan Motor HP (per cell)	30				
Voltage/Phase/Hz	480/3/60				
Fan Speed Control	VFD				
Starter Furnished By	Mech Contractor				
Disconnect Furnished By	Elec Contractor				
Emergency Power	No				
Make Up Water (gpm)	27.0				
Drain Flow (gpm)					
Basin Heaters:					
# Heaters/Cell	1				
KW/Cell (Total)	10.0				
Voltage/Phase/Hz	480/3/60				
Heater Control By	Mech Contractor				
Disconnect Furnished By	Elec Contractor				
Emergency Power	No				
Dimensions (per cell):					
Length (in)	239				
Width (in)	118				
Height (in)	144				
Operating Weight (lbs)	8,500				
Based on:	NC9405SAN2				
Notes:					
1. Vibration switches to be provided by cooling tower manufacturer. Control contractor to wire to fan starter.					
2. Heaters & controls to be provided by cooling tower manufacturer. Contractor to coordinate any field wiring required.					
3. Provide inverter duty fan motor if variable frequency drive is indicated.					
4. Provide two winding motor if two speed motor is indicated.					
5. Height is measured from top of structural support to top of handrail.					
6. Provide OSHA approved handrail and ladder.					

PUMPS - HVAC					
Designation	CWP-11-1	CWP-11-2	CWP-11-3		
Location	Roof	Roof	Roof		
Duty	Cond. Water	Cond. Water	Cond. Water		
Construction	Outdoor	Outdoor	Outdoor		
Fluid	Water	Water	Water		
Type	Double Suction	Double Suction	Double Suction		
GPM	1350	1350	1350		
Suction Head (ft)	5	5	5		
Differential Head (ft)	110	110	110		
Discharge (ft)	115	115	115		
Motor HP	60	60	60		
Voltage/Phase/Hz	480/3/60	480/3/60	480/3/60		
RPM	1750	1750	1750		
Volume Control	VFD	VFD	VFD		
Starter Furnished By	Mech Contractor	Mech Contractor	Mech Contractor		
Disconnect Furnished By	Elec Contractor	Elec Contractor	Elec Contractor		
Emergency Power	No	No	No		
Fluid Temperature (deg F)	85	85	85		
Coupling	Flexible	Flexible	Flexible		
Mounting Position	Horizontal	Horizontal	Horizontal		
Seals:					
Type of Seals	Mechanical	Mechanical	Mechanical		
External Flushing Lines	No	No	No		
Cent. Abrasive Separators	No	No	No		
Based on Grundfos:	BAE12	BAE12	BAE12		
Notes:					
1. Pump construction and seals shall be compatible with outdoors, system pressure, temperature and fluid.					
2. Refer to Specification Section for further requirements.					
3. Redundant pump shall operate in lead-lag with other pumps.					

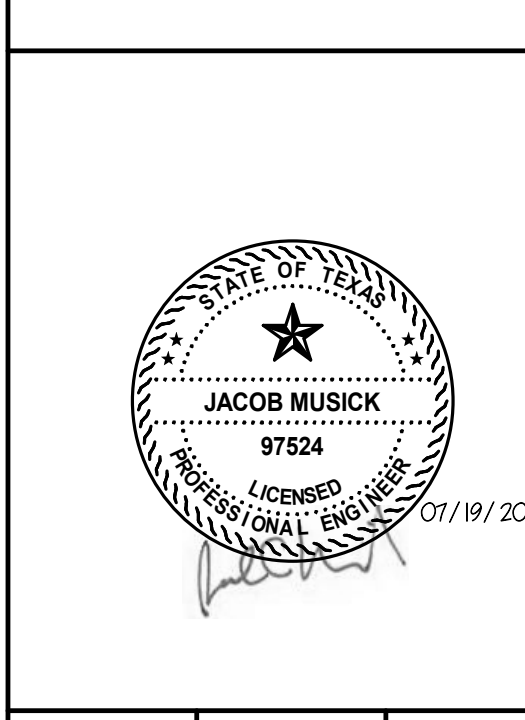
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ISSUE LOG	
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REVISION LOG		
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02.19.2021	REVISION #02	5
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SHEET NO.
M6.01
 SCHEDULES

FANS				
Designation	EPF-11-1	EPF-11-2	EPF-11-3	HEF-11-1
Location	Roof	Roof	Roof	Roof
Serves	Elevator Hoistway Pressurization	Elevator Hoistway Pressurization	Elevator Hoistway Pressurization	Smoke Relief
Fan Type	Centrifugal Utility	Centrifugal Utility	Centrifugal Utility	Centrifugal Utility
Wheel Type	Backward Inclined	Backward Inclined	Backward Inclined	Backward Inclined
Duty	Supply	Supply	Supply	Exhaust
Installation	Roof Curb	Roof Curb	Roof Curb	Roof Curb
Discharge	Horizontal	Horizontal	Horizontal	Horizontal
Air Temp. (Deg.F)	105	105	105	250
Cfm	20000	20000	20000	20000
Static Press. (\"WG)	1.5	1.5	1.5	1
Wheel Diameter (In.)	40.2	40.2	30	40.2
Max. Tip Speed	-	-	-	-
Type Of Drive	Belt	Belt	Belt	Belt
Max Sones @ 5'	-	-	-	-
Max Discharge (LWA)	75	75	83	75
Motor Hp	10	10	5	7 1/2
Voltage/Phase/Hz	480/3/60	480/3/60	480/3/60	480/3/60
Volume Control	VFD	VFD	VFD	VFD
Starter Furnished By	Mech Contractor	Mech Contractor	Mech Contractor	Mech Contractor
Disconnect Furnished By	Elec Contractor	Elec Contractor	Elec Contractor	Elec Contractor
Emergency Power	Yes	Yes	Yes	Yes
Other Requirements:				
Birdscreen	Inlet	Inlet	Inlet	Outlet
Backdraft Damper	Motorized	Motorized	Motorized	Motorized
Spark Proof	No	No	No	No
Acid Proof	No	No	No	No
Fan Guard(s)	No	No	No	No
Belt Guard	Yes	Yes	Yes	Yes
Filter	No	No	No	No
Weight (lbs)	855	855	545	620
Based on Cook:	402 CPA	402 CPA	300 CPA	402 CPA
Notes:	1. Refer to Specification Section for further requirements.			

FANS				
Designation	VF-1			
Location	Office Electrical Room			
Serves	Electrical & IDF Rooms			
Fan Type	Centrifugal Square Inline			
Wheel Type	Backward Inclined			
Duty	Ventilation			
Installation	Suspended			
Discharge	Horizontal			
Air Temp. (Deg.F)	85			
Cfm	1000			
Static Press. (\"WG)	0.5			
Wheel Diameter (In.)	12			
Max. Tip Speed	-			
Type Of Drive	Belt			
Max Sones @ 5'	-			
Max Discharge (LWA)	88			
Motor Hp	1/4			
Voltage/Phase/Hz	120/1/60			
Volume Control	None			
Starter Furnished By	Mech Contractor			
Disconnect Furnished By	Elec Contractor			
Emergency Power	No			
Other Requirements:				
Birdscreen	Inlet			
Backdraft Damper	No			
Spark Proof	No			
Acid Proof	No			
Fan Guard(s)	No			
Belt Guard	Yes			
Filter	No			
Weight (lbs)	50			
Based on Cook:	120 SQN			
Notes:	1. Refer to Specification Section for further requirements.			

FANS				
Designation	EF-1-1	EF-11-1	EF-11-2	EF-6-1
Location	Level 1 Fitness	Roof	Roof	Crawl Space
Serves	Fitness Center	Toilet Exhaust	Toilet Exhaust	Crawl Space
Fan Type	Centrifugal Square Inline	Centrifugal Utility	Centrifugal Utility	Centrifugal inline
Wheel Type	Backward Inclined	Backward Inclined	Backward Inclined	Backward Inclined
Duty	Exhaust	Exhaust	Exhaust	Exhaust
Installation	Roof Curb	Roof Curb	Roof Curb	Wall Mount
Discharge	Upward	Upward	Upward	Inline
Air Temp. (Deg.F)	85	85	85	70
Cfm	3000	3000	3000	3000
Static Press. (\"WG)	0.5	0.5	0.5	0.4
Wheel Diameter (In.)	15	21	10	15
Max. Tip Speed	-	-	-	-
Type Of Drive	Belt	Belt	Belt	Belt
Max Sones @ 5'	-	-	-	-
Max Discharge (LWA)	79	93	75	76
Motor Hp	1	7 1/2	1/3	3/4
Voltage/Phase/Hz	480/3/60	480/3/60	120/60/1	120/60/2
Volume Control	VFD	VFD	None	None
Starter Furnished By	Mech Contractor	Mech Contractor	Mech Contractor	Mech Contractor
Disconnect Furnished By	Elec Contractor	Elec Contractor	Elec Contractor	Elec Contractor
Emergency Power	No	No	No	No
Other Requirements:				
Birdscreen	No	Outlet	Outlet	Inlet
Backdraft Damper	Motorized	Motorized	Motorized	Motorized
Spark Proof	No	No	No	No
Acid Proof	No	No	No	No
Fan Guard(s)	No	No	No	No
Belt Guard	Yes	Yes	Yes	Yes
Filter	No	No	No	No
Weight (lbs)	105	310	64	103
Based on Cook:	150 SQN	210 CPA	100 CPA	SE1-18-424-VG GREENHECK
Notes:	1. Refer to Specification Section for further requirements.			

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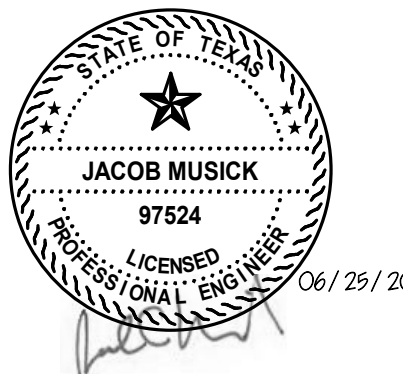
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SHEET NO.

M6.21

SCHEDULES

CABINET HEATERS - ELECTRIC

Designation	CHE-3				
Location	Level 1 Corridor				
Serves	Corridor				
Supply Air CFM (at Sea Level)	210				
Outside Air CFM					
Cabinet Type	Horiz. Flush w/ Ceiling				
Inlet Arrangement	Bottom Stamped Louver				
Outlet Arrangement	Bottom Stamped Louver				
Fresh Air Damper	N/A				
Fan:					
External S.P. (" Wg)	0.10				
Motor HP	1/30				
FLA	0.2				
Voltage/Phase/Hz	480/3/60				
Electric Heating Coil:					
Capacity (KW)	3				
Stages	1				
Voltage/Phase/Hz	480/3/60				
EAT (deg F)	70				
LAT (deg F)	115				
Filter Type	1" TA				
Electrical:					
Minimum Ckt. Ampacity	5				
Voltage/Phase/Hz	480/3/60				
Disconnect Furnished By	Division 16				
Emergency Power	No				
Control Location (Note 2)	Integral in Unit				
Approximate Dimensions:					
Length (in)					
Width (in)					
Height (in)					
Based on					
Notes:					
	1. Provide with single point electric service.				
	2. Provide control with thermostat and fan speed switch at location indicated.				
	3. Refer to Specification Section 15600 for further requirements.				

PARALLEL FAN POWERED BOXES - ELECTRIC HEAT

Designation	FP-4	FP-6	FP-8	FP-10	FP-12	FP-14	FP-16
Cooling:							
Max CFM	150	400	700	1100	1600	2100	2800
Max. Press Drop ("wg)	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Heating:							
Max Fan CFM	150	200	450	775	1550	1650	1900
Fan Ext. S.P. ("wg)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Fan Motor HP	1/26	1/26	1/8	1/5	1/3	1/2	3/4
Fan Voltage/Phase/Hz	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60	277/1/60
Heater Voltage/Phase/Hz	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60
Control Panel Furn. By	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf
Disconnect Furnished By	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf
Emergency Power	No	No	No	No	No	No	No
Heating KW	See Drawings for Heating KW						
Min. Dust Runout (in.)	4	6	8	10	12	14	16
Outlet Size (W"xH")	6x7	6x7	11x7	14x10	16x10	22x12	24x12
Approximate Dimensions:							
Length (in)	24	24	24	30	30	30	30
Width (in)	29	29	29	37	37	45	49
Height (in)	14	14	14	17	17	19	19
Weight (lbs)							
Control Type	DDC	DDC	DDC	DDC	DDC	DDC	DDC
Based on Envirotec VFR	0404	0604	0806	1011	1218	1421	1624
Maximum Allowable Discharge Sound... Octave Band:							
(2) 125 Hz	53	53	59	64	70	71	68
(3) 250 Hz	48	48	58	62	68	67	63
(4) 500 Hz	47	47	54	62	66	67	63
(5) 1000 Hz	40	40	51	62	68	68	62
(6) 2000 Hz	36	36	46	57	63	63	58
(7) 4000 Hz	31	31	48	56	63	64	58
Maximum Allowable Radiated Sound... Octave Band:							
(2) 125 Hz	64	64	71	70	75	75	72
(3) 250 Hz	61	61	65	66	70	70	68
(4) 500 Hz	54	54	58	63	67	67	63
(5) 1000 Hz	50	50	56	62	65	66	61
(6) 2000 Hz	44	44	53	57	62	64	60
(7) 4000 Hz	39	39	52	57	62	63	59
Notes:							
	1. Boxes shall be pressure independent.						
	2. Controller shall be factory mounted and tested by Fan Powered Box manufacturer.						
	3. Fans shall be selected at medium speed operation.						
	4. Fan CFM shall be target required by any of the following: 50% of cooling CFM. CFM required to provide no more than a 35 deg F temperature rise. Heating CFM indicated on the drawings, if applicable.						
	5. Provide fuse, disconnect switch, and single point power connection for each Fan Powered Box.						
	6. Provide 1" throw away filter in a slide in frame at the return air intake.						
	7. Provide induction port sound baffles if required to meet sound criteria scheduled.						
	8. Provide smoke detectors in the return air intake of all fan powered boxes.						
	9. All designations are not necessarily used on this project.						
	10. Provide single stage heater for heaters 5 KW or less. Provide two stage heater over 5 KW.						
	11. Refer to Specification Section for further requirements.						

VARIABLE VOLUME TERMINAL BOXES

Designation	VV-4	VV-6	VV-8	VV-10	VV-12	VV-14	VV-16	VV-18	VV-22
Max. CFM	150	400	700	1100	1600	2100	2800	4400	7000
Max. Press Drop ("wg)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Max. Height (in)	10	10	10	13	15	18	18	18	19
Min. Dust Runout (in.)	4	6	8	10	12	14	16	22"x14"	33"x18"
Outlet Size (W"xH")	6x6	6x6	11x9	13x12	15x14	19x17	23x17	29x17	33x17
Control Type	DDC	DDC	DDC	DDC	DDC	DDC	DDC	DDC	DDC
Actuator Voltage/Phase/Hz	24V	24V	24V	24V	24V	24V	24V	24V	24V
Control Panel Furn. By	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf
Disconnect Furnished By	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf	Manuf
Emergency Power	No	No	No	No	No	No	No	No	No
Based on Envirotec SDR	4	6	8	10	12	14	16	19	22
Maximum Allowable Discharge Sound... Octave Band:									
(2) 125 Hz	59	60	61	64	64	66	70	74	79
(3) 250 Hz	63	63	64	65	66	66	68	77	79
(4) 500 Hz	56	58	61	64	67	64	65	77	82
(5) 1000 Hz	55	56	59	61	62	61	61	75	76
(6) 2000 Hz	53	52	57	57	60	60	59	73	72
(7) 4000 Hz	52	53	55	54	59	59	59	71	70
Maximum Allowable Radiated Sound... Octave Band:									
(2) 125 Hz	53	54	56	59	57	60	60	68	67
(3) 250 Hz	53	54	56	55	56	58	59	66	66
(4) 500 Hz	43	47	51	53	58	51	52	69	68
(5) 1000 Hz	37	41	43	44	48	46	46	58	58
(6) 2000 Hz	31	33	39	36	43	46	42	51	49
(7) 4000 Hz	30	31	35	32	40	41	37	45	45
Notes:									
	1. Boxes shall be pressure independent.								
	2. Controller shall be factory mounted and tested by VAV Box manufacturer.								
	3. Refer to Specification Section for further requirements.								

SILENCERS

Designation	RAS-5				
Location	--				
Serves	--				
Type (Note 1)	R				
Rating Conditions:					
Face Velocity (fpm)	1000				
Static Pressure Drop ("wg)	0.21				
Air Flow Direction	Reverse				
Silencer Length (in)	60				
Dynamic Insertion Loss at Scheduled Face Velocity (dB)					
63 Hz	12				
125 Hz	15				
250 Hz	27				
500 Hz	31				
1000 Hz	30				
2000 Hz	17				
4000 Hz	14				
8000 Hz	13				
Self Noise Generation Power Levels at Scheduled Face Velocity (dB)					
63 Hz	45				
125 Hz	40				
250 Hz	43				
500 Hz	45				
1000 Hz	47				
2000 Hz	46				
4000 Hz	37				
8000 Hz	27				
Based on IAC	5 LFM				
Notes:					
	1. Silencer types: CV - Cylindrical silencer with void cross section. CS - Cylindrical silencer with internal baffles. R - Rectangular silencer with internal baffles.				
	2. This schedule shows the requirements of the types of silencers. Face dimensions and air quantity are indicated on the drawings.				
	3. Static pressure drop shall be based on laboratory tests with the silencer installed in ductwork with adequate upstream and downstream straight duct to allow for uniform entrance airflow and velocity pressure regain in accordance with appropriate ASTM, ASME, AMCA, an ADC test standards.				
	4. Acoustical performance shall be based on laboratory tests in accordance with current appropriate ASTM specifications.				
	5. Where indicated on drawings, provide a lined upturned sheet metal elbow. The vertical portion of the elbow may be eliminated.				
	6. All designations are not necessarily used on this project.				

UNIT HEATERS - ELECTRIC

Designation	UHE-3	UHE-7.5			
Location	--	--			
Serves	--	--			
Mounting	Horizontal	Horizontal			
Air Discharge (Note 1)	LD	LD			
Fan:					
CFM (At Sea Level)	400	700			
External S.P. (" Wg)	0.0	0.0			
Hp	1/125	1/50			
Fan Type	Propeller	Propeller			
Electric Heating Coil:					
Capacity (KW)	3	7.5			
Stages	2	2			
Voltage/Phase/Hz	480/3/60	480/3/60			
EAT (DB)	60	60			
LAT (DB)	84	94			
Electrical:					
Minimum Ckt. Ampacity	6.2	14.2			
Voltage/Phase/Hz	480/3/60	480/3/60			
Disconnect Furnished By	Division 16	Division 16			
Emergency Power	No	No			
Thermostat Location	On Unit	On Unit			
Fan Control Location	With Tstat	With Tstat			
Approximate Dimensions:					
Length (in)	7	7			
Width (in)	15	22			
Height (in)	18	25			
Based on	Trans UHEC-03	Trans UHEC-07			
Notes:					
	1. Air Discharge Control: LD - Adjustable Louver Diffuser RD - Radial Diffuser with Adjustable Vanes CD - Concentric Cone Radial Diffuser				
	2. Provide with single point electric service.				
	3. All designations are not necessarily used on this project.				
	4. Refer to Specification Section for further requirements.				

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EXHAUST AND RETURN AIR DEVICES

Designation	Description																																																																																													
EX1 / RA1	24"x24" perforated face aluminum ceiling return grille/exhaust register. Exhaust registers shall have key operated opposed blade volume damper. Equivalent to Price model APDDR. Duct runout and grille/register neck size as follows unless indicated on drawings: <table border="1"> <thead> <tr> <th>CFM Range</th> <th>Neck Diameter</th> <th>Runout Diameter</th> <th>Max NC</th> <th>Max Total Pressure</th> </tr> </thead> <tbody> <tr><td>0-210</td><td>8"</td><td>8"</td><td>30</td><td>0.1</td></tr> <tr><td>215-325</td><td>10"</td><td>10"</td><td>30</td><td>0.1</td></tr> <tr><td>330-470</td><td>12"</td><td>12"</td><td>30</td><td>0.1</td></tr> <tr><td>475-635</td><td>14"</td><td>14"</td><td>30</td><td>0.1</td></tr> <tr><td>640-880</td><td>16"</td><td>16"</td><td>30</td><td>0.1</td></tr> </tbody> </table> All transfer grilles to the ceiling plenum shall have 22"x22" neck. 12"x12" similar to Type 'EX1 / RA1'. 6" duct runout and inlet neck, 150 CFM max.	CFM Range	Neck Diameter	Runout Diameter	Max NC	Max Total Pressure	0-210	8"	8"	30	0.1	215-325	10"	10"	30	0.1	330-470	12"	12"	30	0.1	475-635	14"	14"	30	0.1	640-880	16"	16"	30	0.1																																																															
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AIR DEVICE LEGEND

Designation	Description																																																																																								
SA1	24"x24" perforated face aluminum ceiling supply diffuser with adjustable pattern controller. Similar to Price model APDF. Duct runout and inlet neck size as follows unless indicated on drawings: <table border="1"> <thead> <tr> <th>CFM Range</th> <th>Neck Diameter</th> <th>Runout Diameter</th> <th>Max NC</th> <th>Max Total Pressure</th> </tr> </thead> <tbody> <tr><td>0-75</td><td>6"</td><td>6"</td><td>30</td><td>0.1</td></tr> <tr><td>80-210</td><td>8"</td><td>8"</td><td>30</td><td>0.1</td></tr> <tr><td>215-325</td><td>10"</td><td>10"</td><td>30</td><td>0.1</td></tr> <tr><td>330-450</td><td>12"</td><td>12"</td><td>30</td><td>0.1</td></tr> <tr><td>455-550</td><td>14"</td><td>14"</td><td>30</td><td>0.1</td></tr> <tr><td>555-700</td><td>16"</td><td>16"</td><td>35</td><td>0.1</td></tr> </tbody> </table> 12"x12" similar to Type 'SA1'. 6" duct runout and inlet neck, 150 CFM max.	CFM Range	Neck Diameter	Runout Diameter	Max NC	Max Total Pressure	0-75	6"	6"	30	0.1	80-210	8"	8"	30	0.1	215-325	10"	10"	30	0.1	330-450	12"	12"	30	0.1	455-550	14"	14"	30	0.1	555-700	16"	16"	35	0.1																																																					
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SA5	<table border="1"> <thead> <tr> <th>Designation</th> <th>Application</th> <th>Similar to</th> <th>Diffuser Material</th> <th>Deflection Pattern</th> <th>Louver Spacing</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>SA5-Q</td> <td>Standard</td> <td>Price 620DAL</td> <td>Aluminum</td> <td>Double</td> <td>3/4"</td> <td>Aluminum OBD.</td> </tr> <tr> <td>SA5-Q</td> <td>Quiet</td> <td>Price 22DAL</td> <td>Aluminum</td> <td>Double</td> <td>3/4"</td> <td>Aluminum OBD. Hidden fasteners.</td> </tr> <tr> <td>SA5-SS</td> <td>Corrosive Environment</td> <td>Price 720DSS</td> <td>Stainless Steel</td> <td>Double</td> <td>3/4"</td> <td>304 SS OBD.</td> </tr> <tr> <td>SA5-HD</td> <td>Heavy Duty</td> <td>Price 920D</td> <td>Steel</td> <td>Double</td> <td>1/2"</td> <td>Steel OBD.</td> </tr> <tr> <td>SA5-R</td> <td>Residential</td> <td>Price 640</td> <td>Aluminum</td> <td>Single</td> <td>2/3"</td> <td>Stamped face grille w/ multi-shutter damper.</td> </tr> <tr> <td>SA5-S</td> <td>Standard</td> <td>Price SDGE</td> <td>Aluminum</td> <td>Double</td> <td>3/4"</td> <td></td> </tr> </tbody> </table> 48" (U.N.O. on drawings) long plenum aluminum T-bar slot diffuser with internal insulation, 1" slots and pattern controllers allowing full 180 degree pattern adjustment and volume control. Equivalent to Price model TBDI-3100. Air quantity is indicated on drawings: <table border="1"> <thead> <tr> <th rowspan="2"># Slots</th> <th colspan="4">CFM Range</th> <th rowspan="2">Max NC</th> <th rowspan="2">Max Total Pressure</th> </tr> <tr> <th>6" Runout</th> <th>8" Runout</th> <th>10" Runout</th> <th>12" Runout</th> </tr> </thead> <tbody> <tr><td>1</td><td>0-90</td><td>95-110</td><td>115-120</td><td>125-150</td><td>30</td><td>0.1</td></tr> <tr><td>2</td><td>0-95</td><td>100-165</td><td>170-190</td><td>195-250</td><td>30</td><td>0.1</td></tr> <tr><td>3</td><td>0-175</td><td>180-220</td><td>225-250</td><td>255-300</td><td>30</td><td>0.1</td></tr> <tr><td>4</td><td>0-220</td><td>225-290</td><td>295-290</td><td>295-300</td><td>30</td><td>0.1</td></tr> </tbody> </table> Provide continuous architectural slot in ceiling as indicated on drawings. Provide return air boot (see detail) and coordinate ceiling framing to accommodate return air at inactive sections U.N.O.	Designation	Application	Similar to	Diffuser Material	Deflection Pattern	Louver Spacing	Notes	SA5-Q	Standard	Price 620DAL	Aluminum	Double	3/4"	Aluminum OBD.	SA5-Q	Quiet	Price 22DAL	Aluminum	Double	3/4"	Aluminum OBD. Hidden fasteners.	SA5-SS	Corrosive Environment	Price 720DSS	Stainless Steel	Double	3/4"	304 SS OBD.	SA5-HD	Heavy Duty	Price 920D	Steel	Double	1/2"	Steel OBD.	SA5-R	Residential	Price 640	Aluminum	Single	2/3"	Stamped face grille w/ multi-shutter damper.	SA5-S	Standard	Price SDGE	Aluminum	Double	3/4"		# Slots	CFM Range				Max NC	Max Total Pressure	6" Runout	8" Runout	10" Runout	12" Runout	1	0-90	95-110	115-120	125-150	30	0.1	2	0-95	100-165	170-190	195-250	30	0.1	3	0-175	180-220	225-250	255-300	30	0.1	4	0-220	225-290	295-290	295-300	30	0.1
Designation	Application	Similar to	Diffuser Material	Deflection Pattern	Louver Spacing	Notes																																																																																			
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SA6	48" (U.N.O. on drawings) long plenum aluminum T-bar slot diffuser with internal insulation, 1" slots and pattern controllers allowing full 180 degree pattern adjustment and volume control. Equivalent to Price model TBDI-3100. Air quantity is indicated on drawings: <table border="1"> <thead> <tr> <th rowspan="2"># Slots</th> <th colspan="4">CFM Range</th> <th rowspan="2">Max NC</th> <th rowspan="2">Max Total Pressure</th> </tr> <tr> <th>6" Runout</th> <th>8" Runout</th> <th>10" Runout</th> <th>12" Runout</th> </tr> </thead> <tbody> <tr><td>1</td><td>0-90</td><td>95-110</td><td>115-120</td><td>125-150</td><td>30</td><td>0.1</td></tr> <tr><td>2</td><td>0-95</td><td>100-165</td><td>170-190</td><td>195-250</td><td>30</td><td>0.1</td></tr> <tr><td>3</td><td>0-175</td><td>180-220</td><td>225-250</td><td>255-300</td><td>30</td><td>0.1</td></tr> <tr><td>4</td><td>0-220</td><td>225-290</td><td>295-290</td><td>295-300</td><td>30</td><td>0.1</td></tr> </tbody> </table> Provide continuous architectural slot in ceiling as indicated on drawings. Provide return air boot (see detail) and coordinate ceiling framing to accommodate return air at inactive sections U.N.O.	# Slots	CFM Range				Max NC	Max Total Pressure	6" Runout	8" Runout	10" Runout	12" Runout	1	0-90	95-110	115-120	125-150	30	0.1	2	0-95	100-165	170-190	195-250	30	0.1	3	0-175	180-220	225-250	255-300	30	0.1	4	0-220	225-290	295-290	295-300	30	0.1																																																	
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SA7 / PL7	Extruded aluminum linear slot diffuser with 1" slots and pattern controllers allowing full 180 degree pattern adjustment and volume control. Equivalent to Price model SDS100. Refer to architectural plans for exact length. Air quantity indicated on drawings. Provide field fabricated or manufacturer's supply air plenum at active sections. Scheduled plenum dimensions are approximate. Coordinate exact dimensions with supply air device. Provide continuous architectural slot in ceiling as indicated on the drawings. Provide return air boot (see detail) and coordinate ceiling framing to accommodate return air at inactive sections U.N.O.																																																																																								
SA8 / PL8	Extruded aluminum continuous linear single slot diffuser with integral pattern controllers designed for horizontal throw. Equivalent to Price series AS with hidden flange border for gyp board ceilings or sidewall applications. Air quantity and slot width indicated on drawings. Provide continuous architectural slot in ceiling as indicated on the drawings with supply air plenum at active sections. Coordinate ceiling framing and provide light shield to accommodate return air at inactive sections U.N.O.																																																																																								
SA9 / PL9	Extruded aluminum continuous linear single slot diffuser with integral pattern controllers designed for vertical throw in high ceiling spaces. Equivalent to Price series JS with hidden flange border for gyp board ceilings or sidewall applications. Air quantity and slot width indicated on drawings. Provide continuous architectural slot in ceiling as indicated on the drawings with supply air plenum at active sections. Coordinate ceiling framing and provide light shield to accommodate return air at inactive sections U.N.O.																																																																																								
SA10	Extruded aluminum linear fixed bar diffuser with 7/16" bars and 0 degree deflection. Equivalent to Price LBP-25C Core and frame shall be properly sized to allow sheet metal duct connection as indicated on drawings. If diffuser is indicated in floor, provide model adequate to support traffic loads. Size and air quantity indicated on drawings.																																																																																								
SA12	24"x24" aluminum architectural square panel ceiling supply diffuser. Equivalent to Price model ASPD with optional directional blow clips as indicated on the drawings. Duct runout and inlet neck size as follows unless indicated on drawings: <table border="1"> <thead> <tr> <th>CFM Range</th> <th>Neck Diameter</th> <th>Runout Diameter</th> <th>Max NC</th> <th>Max Total Pressure</th> </tr> </thead> <tbody> <tr><td>0-350</td><td>8"</td><td>8"</td><td>30</td><td>0.1</td></tr> <tr><td>355-500</td><td>10"</td><td>10"</td><td>30</td><td>0.1</td></tr> <tr><td>505-650</td><td>12"</td><td>12"</td><td>30</td><td>0.1</td></tr> <tr><td>655-860</td><td>14"</td><td>14"</td><td>30</td><td>0.1</td></tr> <tr><td>865-975</td><td>16"</td><td>16"</td><td>30</td><td>0.1</td></tr> </tbody> </table> 12"x12" similar to Type 'SA12'. 6" duct runout and inlet neck, 150 CFM max.	CFM Range	Neck Diameter	Runout Diameter	Max NC	Max Total Pressure	0-350	8"	8"	30	0.1	355-500	10"	10"	30	0.1	505-650	12"	12"	30	0.1	655-860	14"	14"	30	0.1	865-975	16"	16"	30	0.1																																																										
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SA13	12"x12" similar to Type 'SA12'. 6" duct runout and inlet neck, 150 CFM max. Notes: 1. Not all designations or sizes are necessarily used on this project. 2. Provide border suitable for the installation location as required. 3. Refer to manufacturer for standard finish. Coordinate with Architect for color and final painting. 4. Coordinate exact locations of all air devices with Architectural Reflected Ceiling Plans. 5. Diffusers indicated on drawings supersede schedule.																																																																																								

2999 OLYMPUS
 2999 OLYMPUS BLVD., DALLAS, TX

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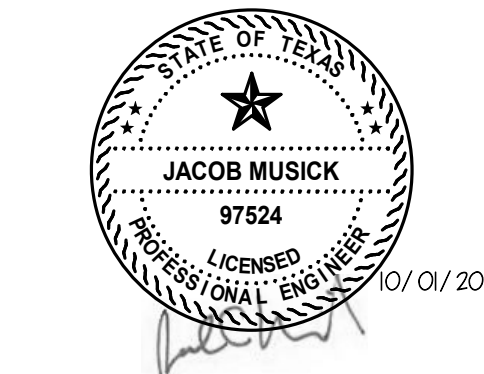
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06.14.2019	50% CONSTRUCTION DOCUMENTS
07.19.2019	80% CONSTRUCTION DOCUMENTS
09.30.2019	ISSUE FOR PERMIT
01.17.2020	ISSUE FOR CONSTRUCTION

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SHEET NO.
M6.91
 SCHEDULES

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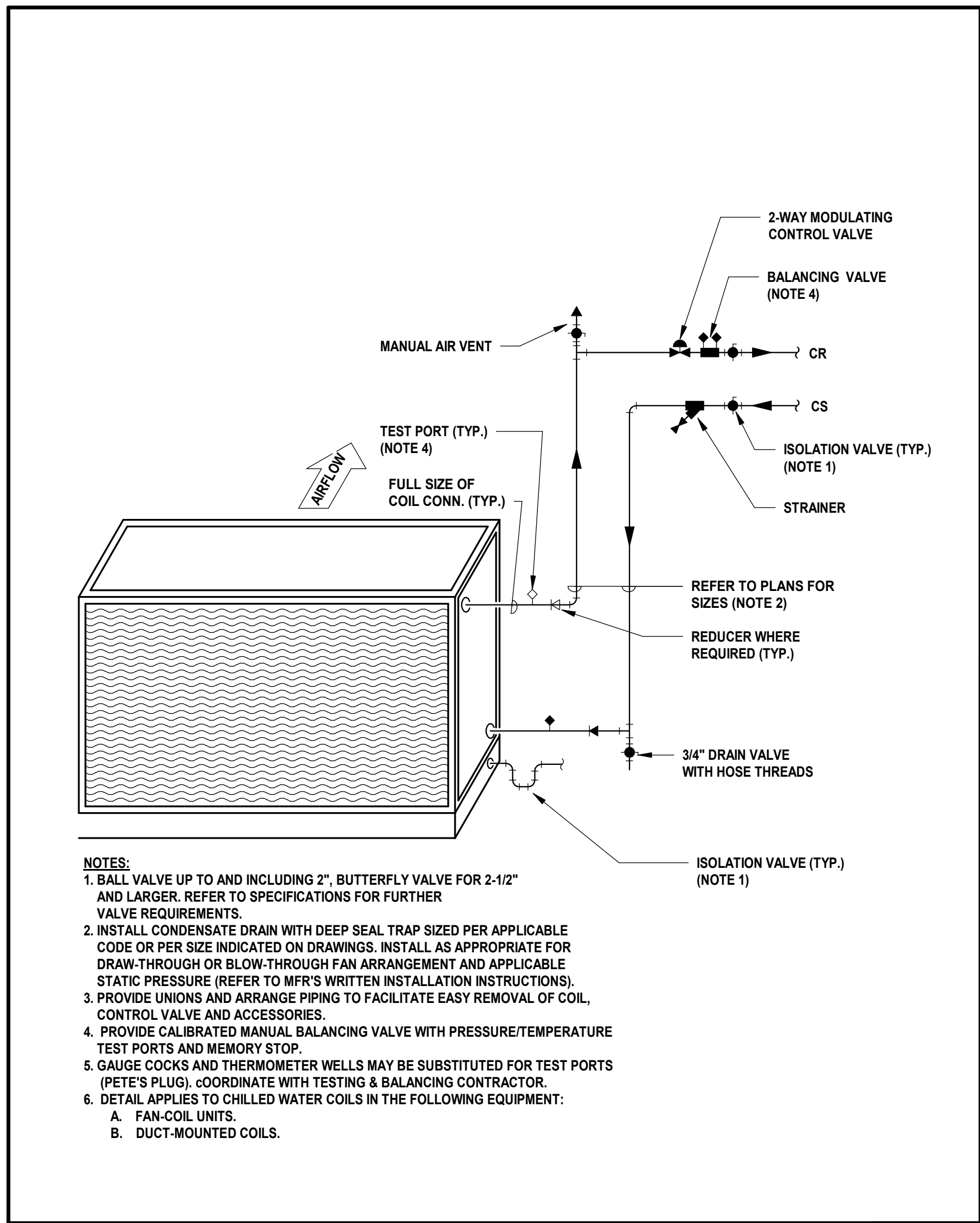
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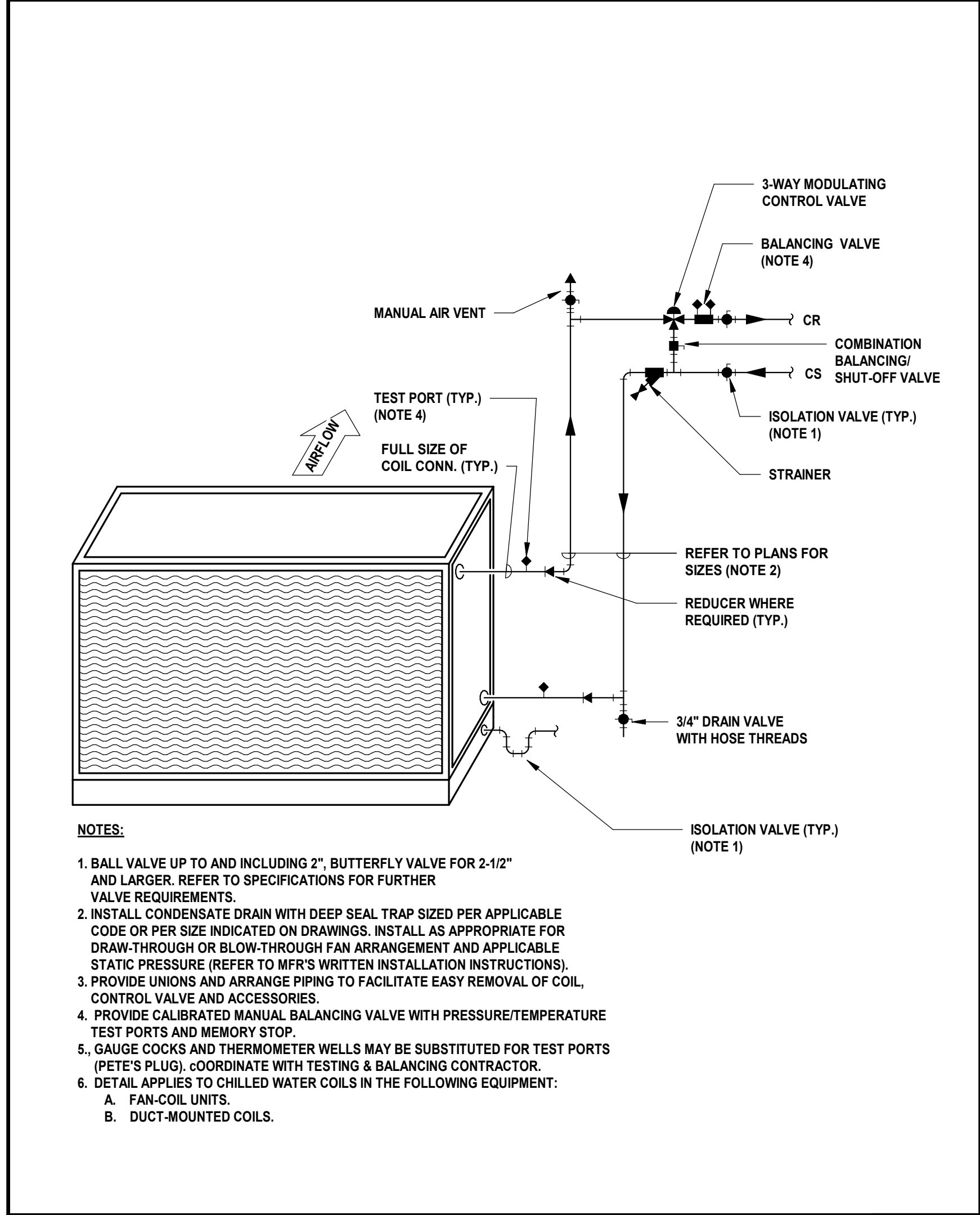
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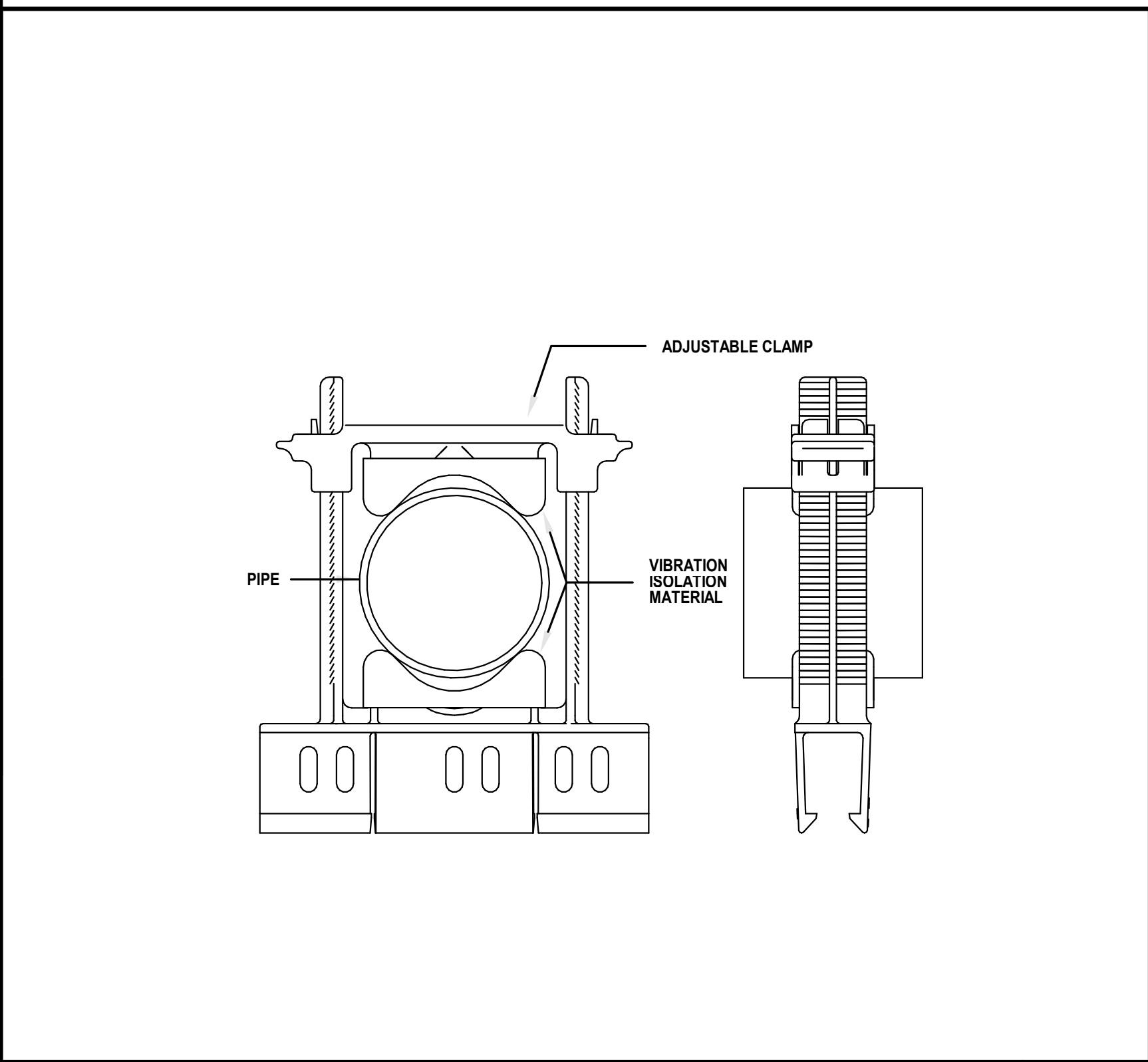
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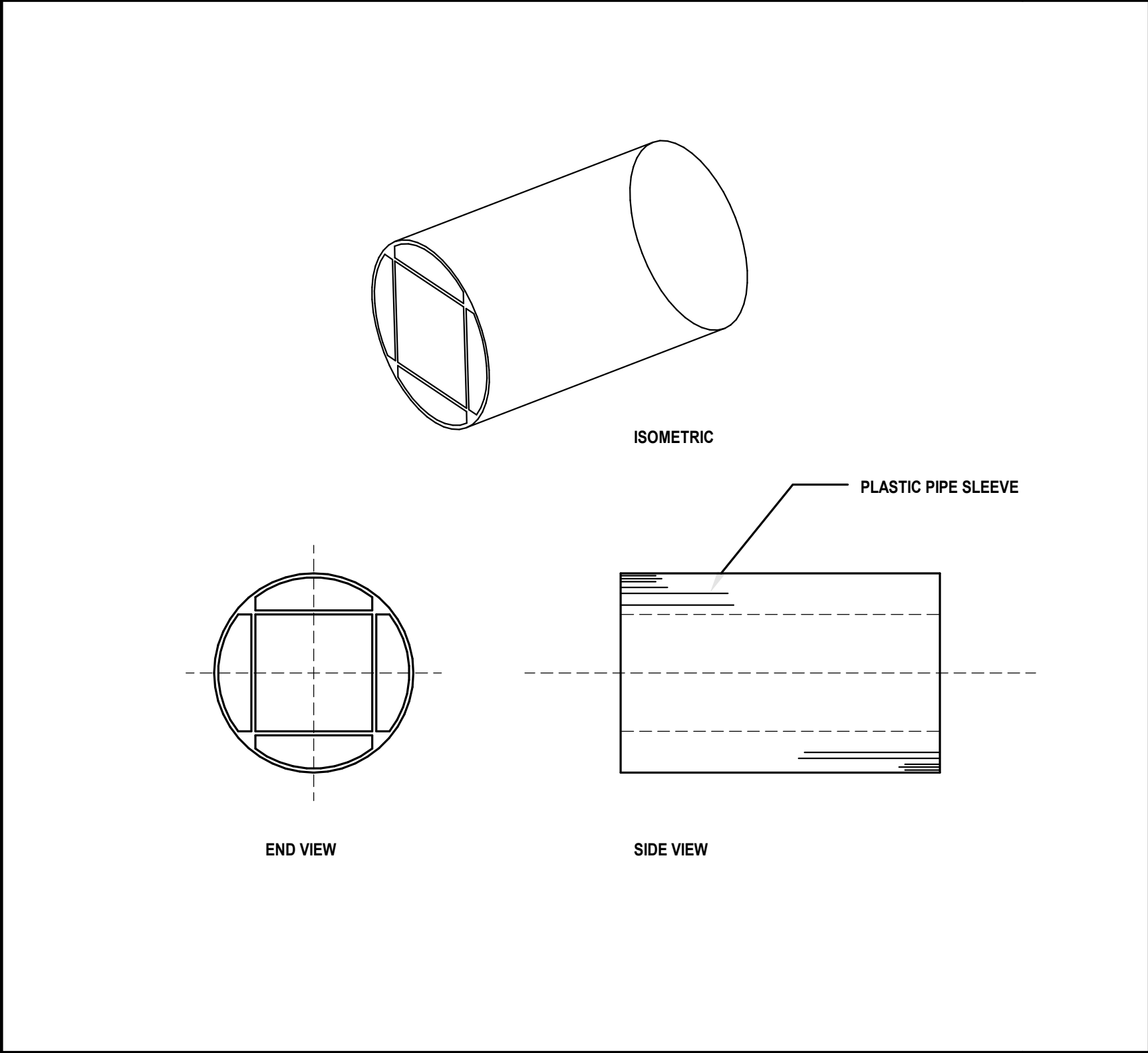
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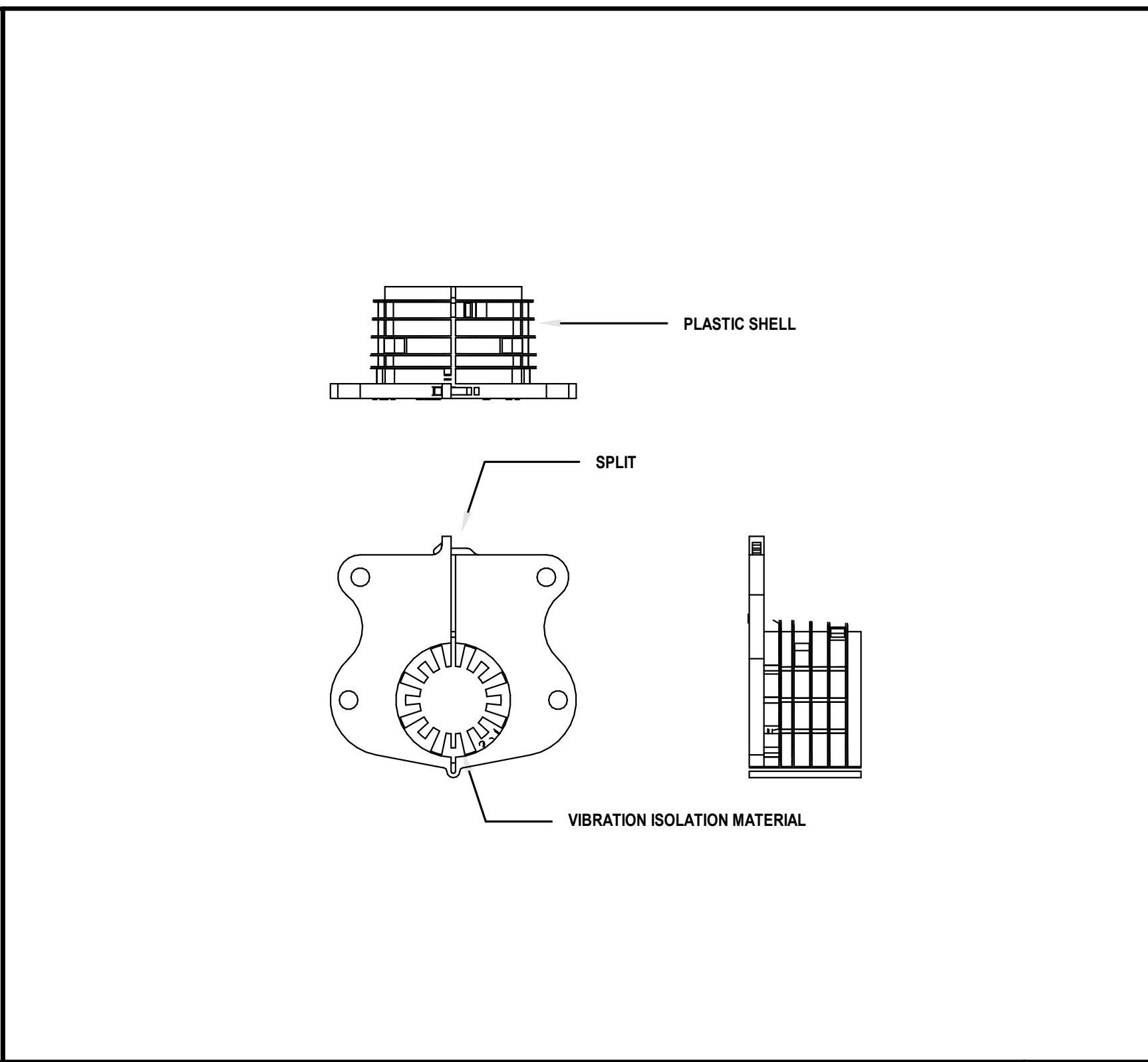
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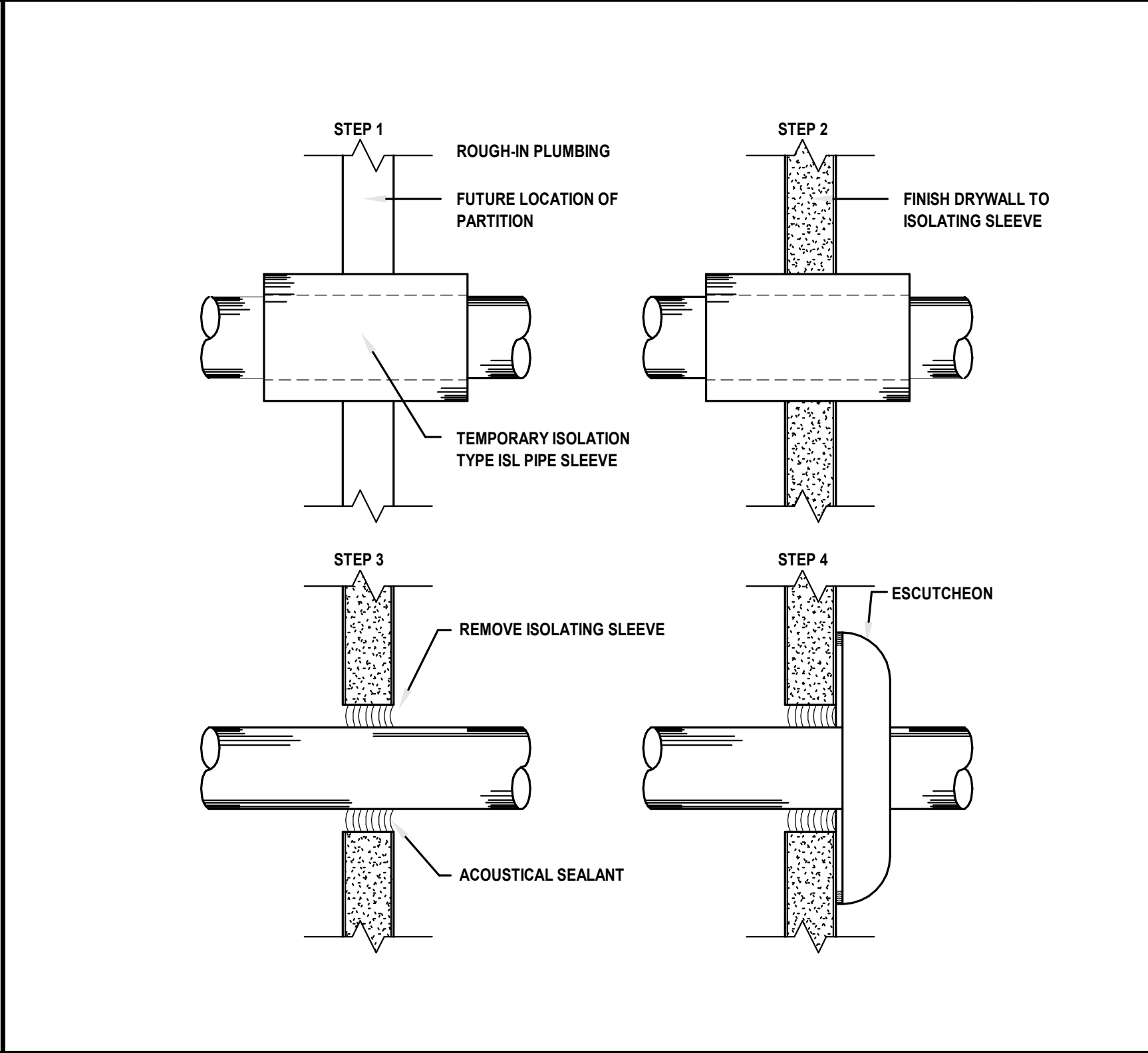
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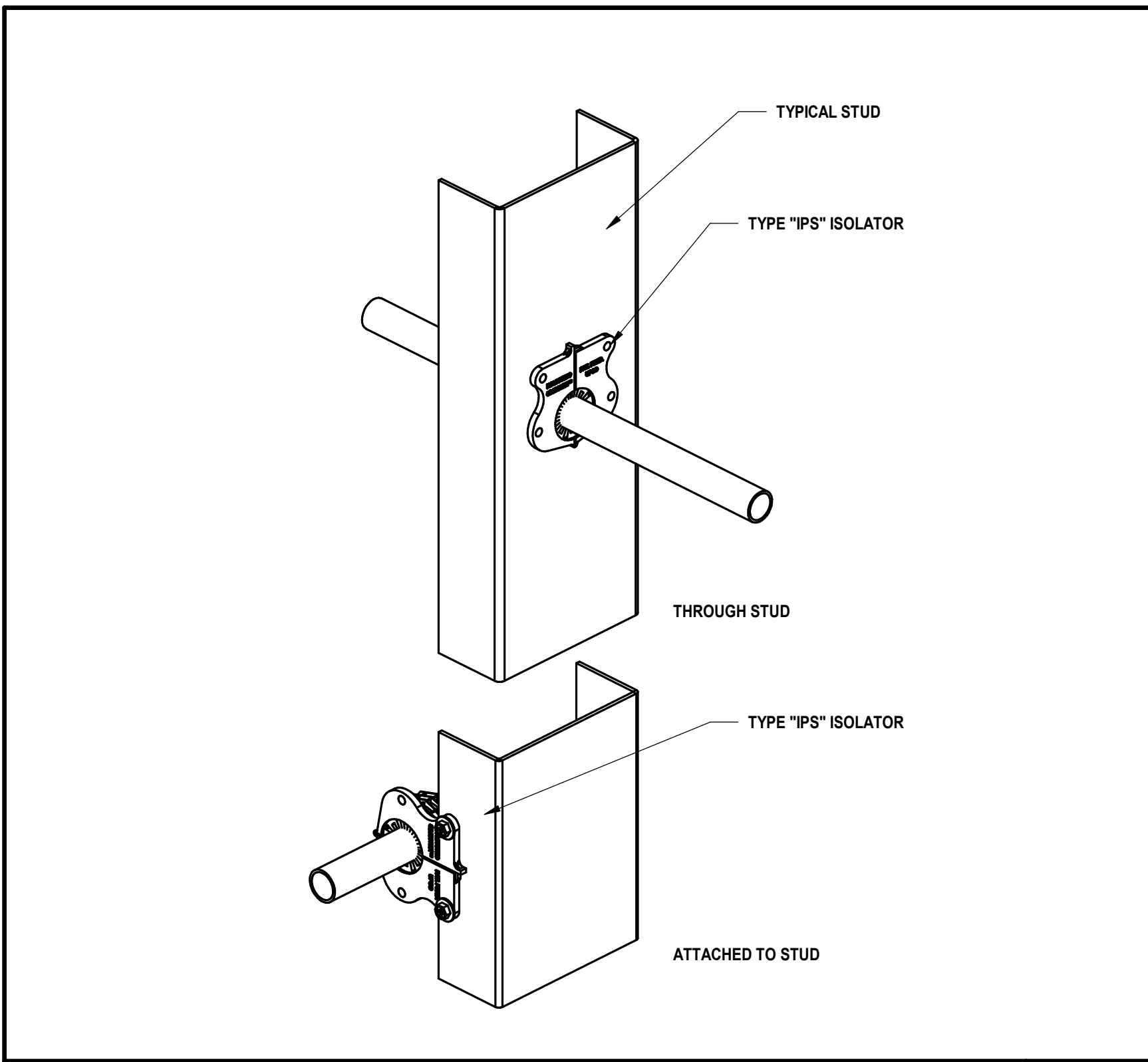
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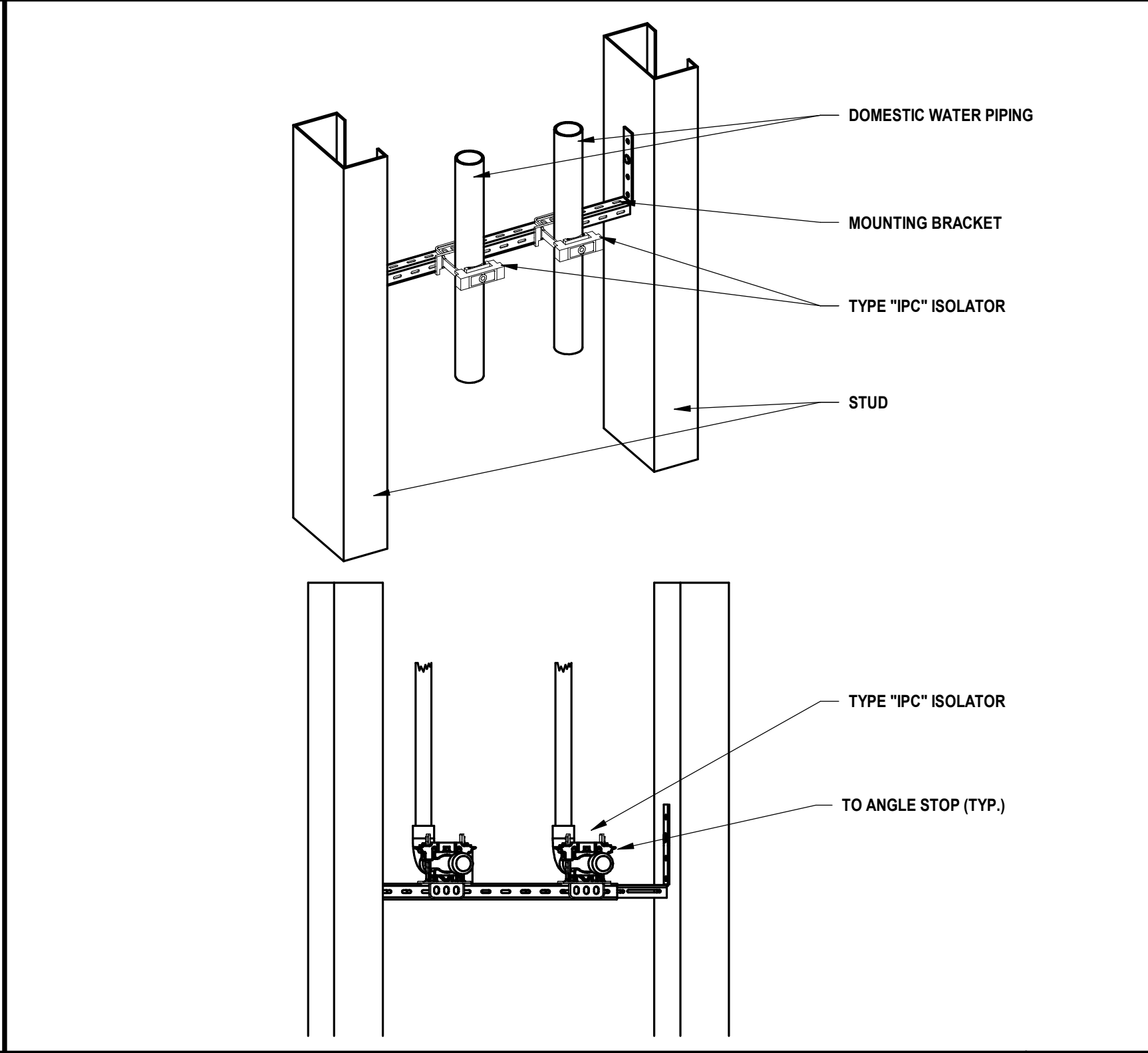
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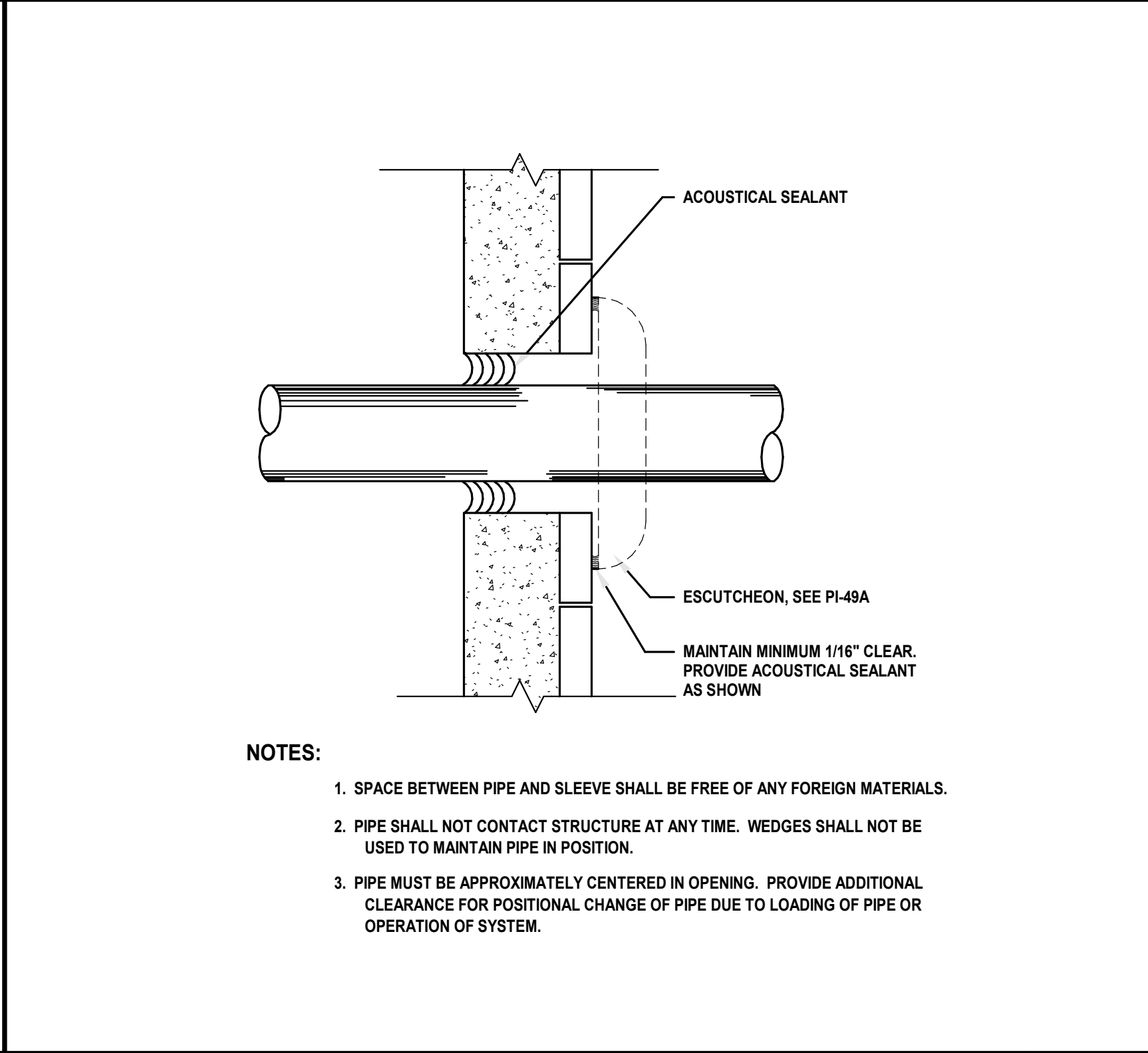
INSTALLATION OF ISOLATED SLEEVE + ESCUTCHEON N.T.S. 02



TYP. VIBRATION ISOLATION OF PIPES TO STUDS N.T.S. 07



TYPICAL VIBRATION ISOLATION OF PIPING IN STUD CAVITY N.T.S. 04



ISOLATED PIPE PENETRATION N.T.S. 01

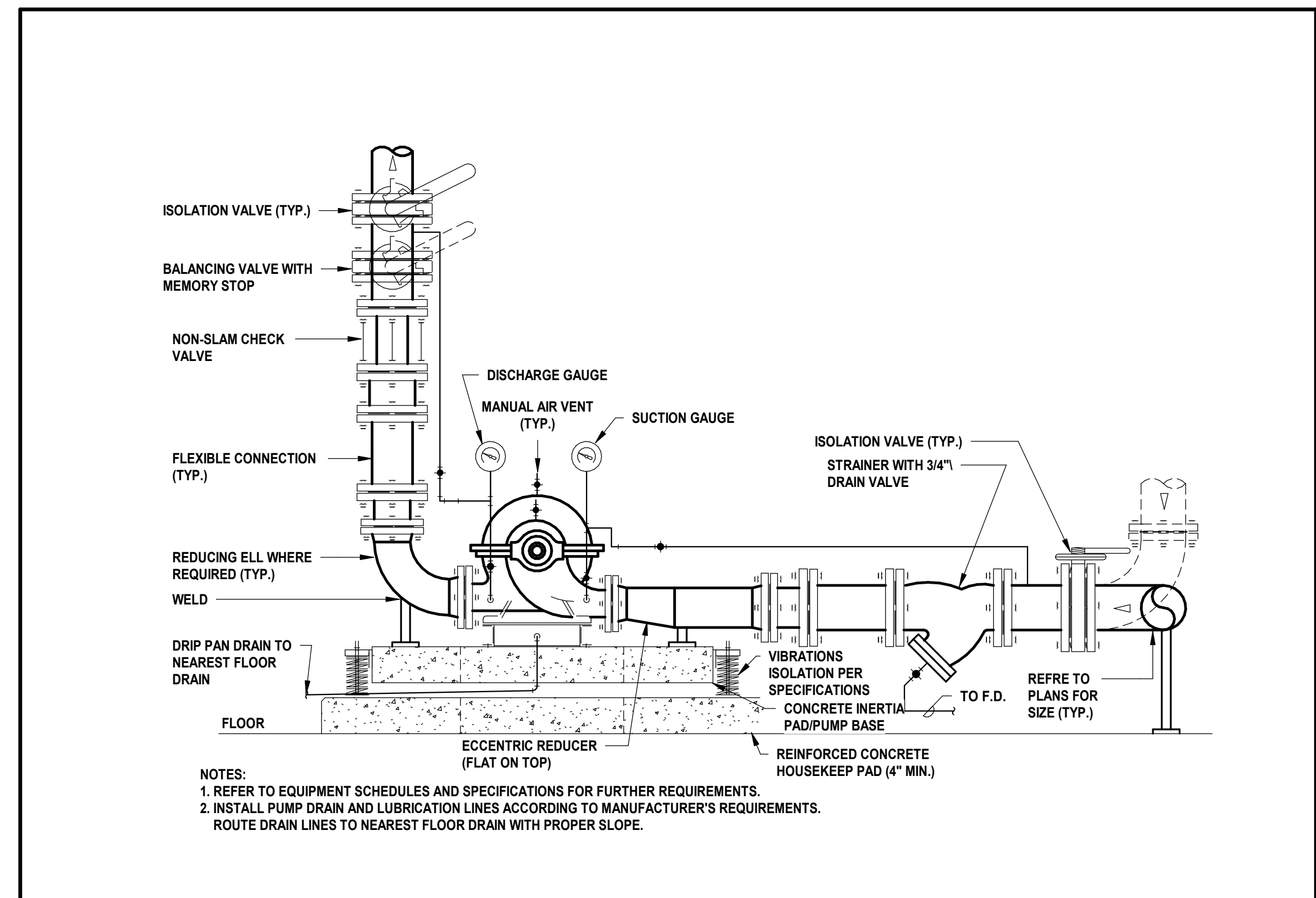
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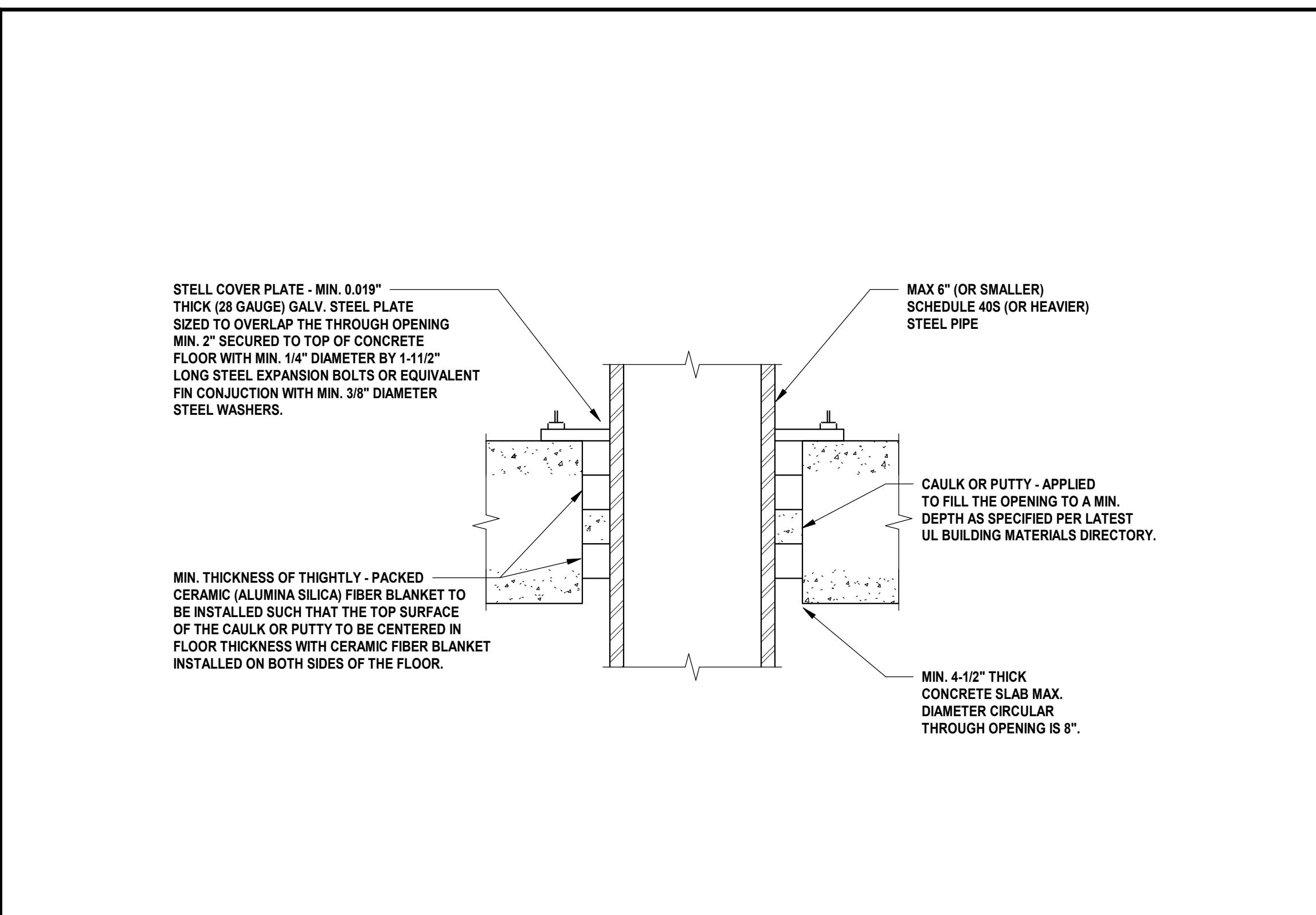
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xxxx/xx	19007	REF. DRAWING

SHEET NO.
M7.02
 DETAILS



NOTES:
 1. REFER TO EQUIPMENT SCHEDULES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
 2. INSTALL PUMP DRAIN AND LUBRICATION LINES ACCORDING TO MANUFACTURER'S REQUIREMENTS.
 ROUTE DRAIN LINES TO NEAREST FLOOR DRAIN WITH PROPER SLOPE.

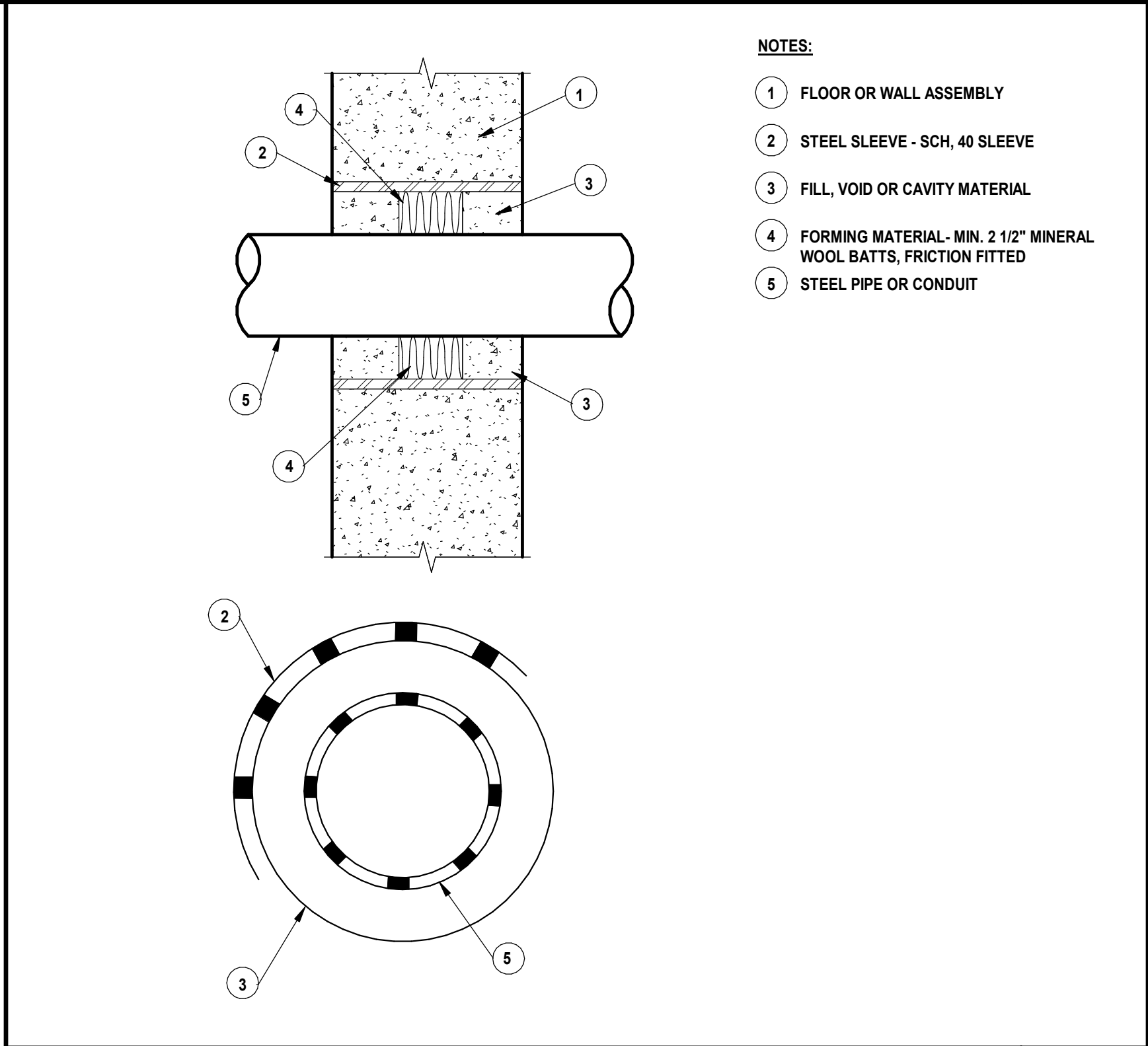
DOUBLE SUCTION PUMP DETAIL 07
 N.T.S.



MIN. THICKNESS OF THIGHTLY - PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET TO BE INSTALLED SUCH THAT THE TOP SURFACE OF THE CAULK OR PUTTY TO BE CENTERED IN FLOOR THICKNESS WITH CERAMIC FIBER BLANKET INSTALLED ON BOTH SIDES OF THE FLOOR.

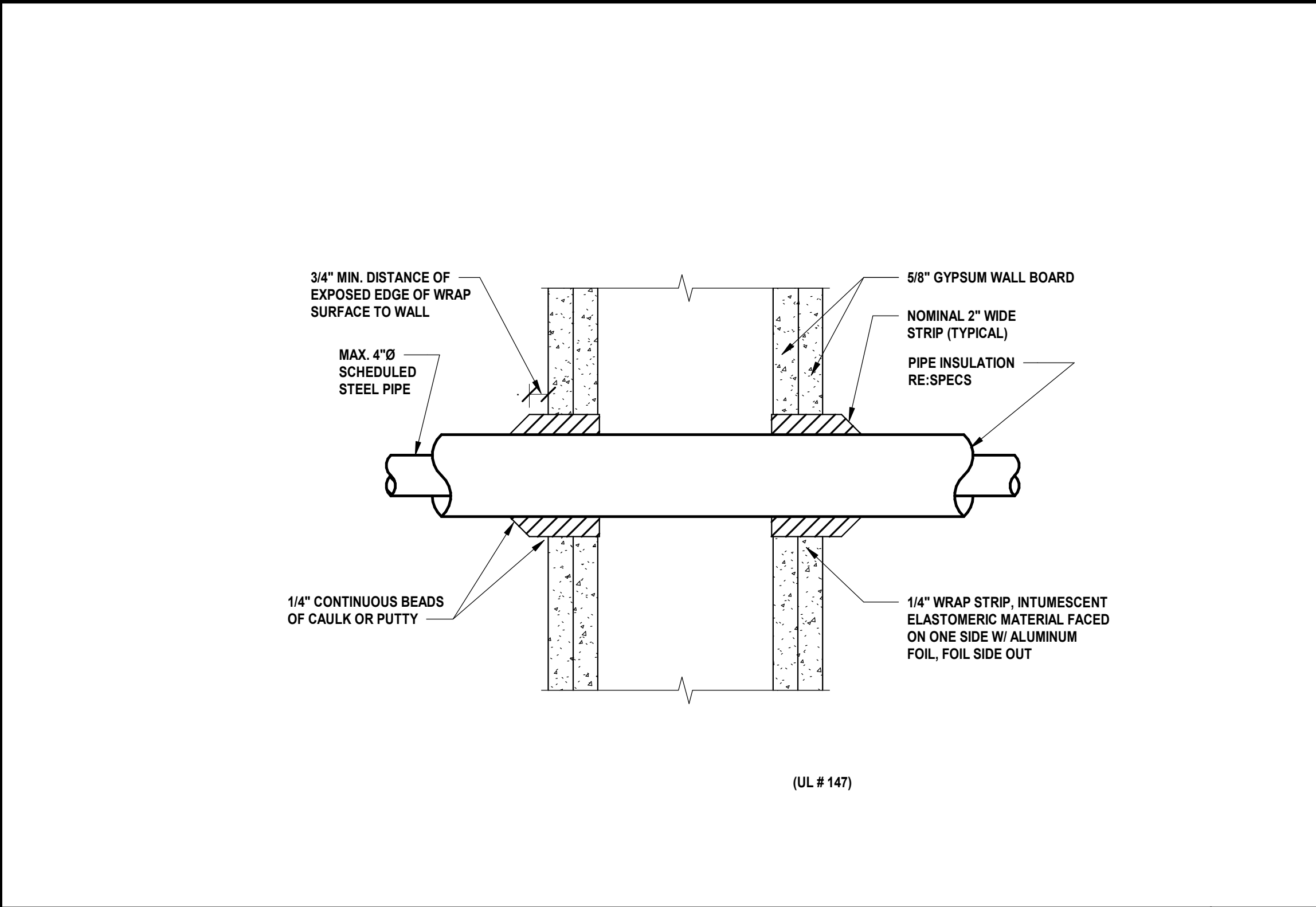
MIN. 4-1/2\"/>

PIPE FLOOR SLAB PENETRATION DETAIL 06
 N.T.S.



NOTES:
 1 FLOOR OR WALL ASSEMBLY
 2 STEEL SLEEVE - SCH. 40 SLEEVE
 3 FILL VOID OR CAVITY MATERIAL
 4 FORMING MATERIAL - MIN. 2 1/2\"/>

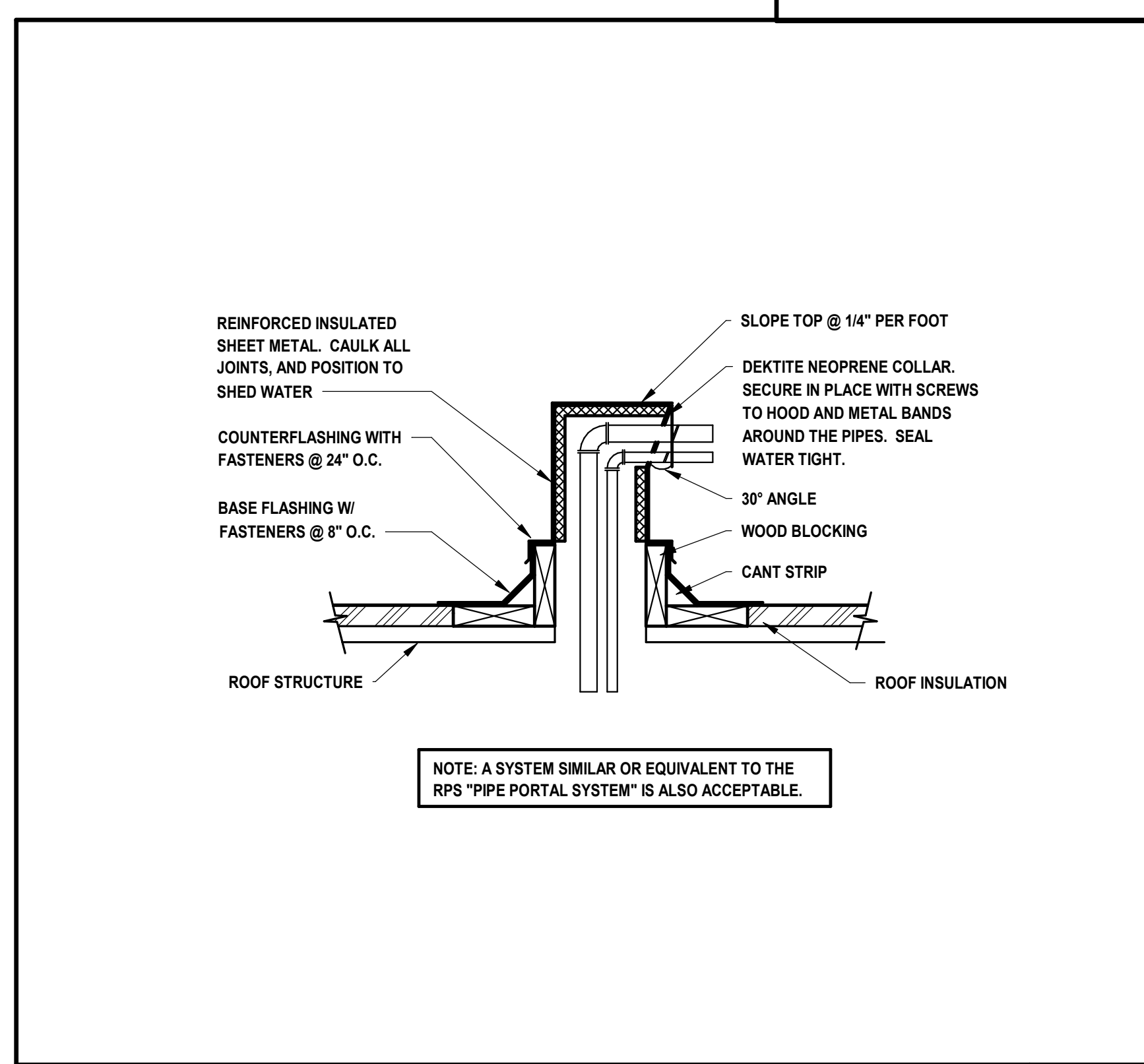
PIPING WALL PENETRATION DETAIL 05
 N.T.S.



3/4\"/>

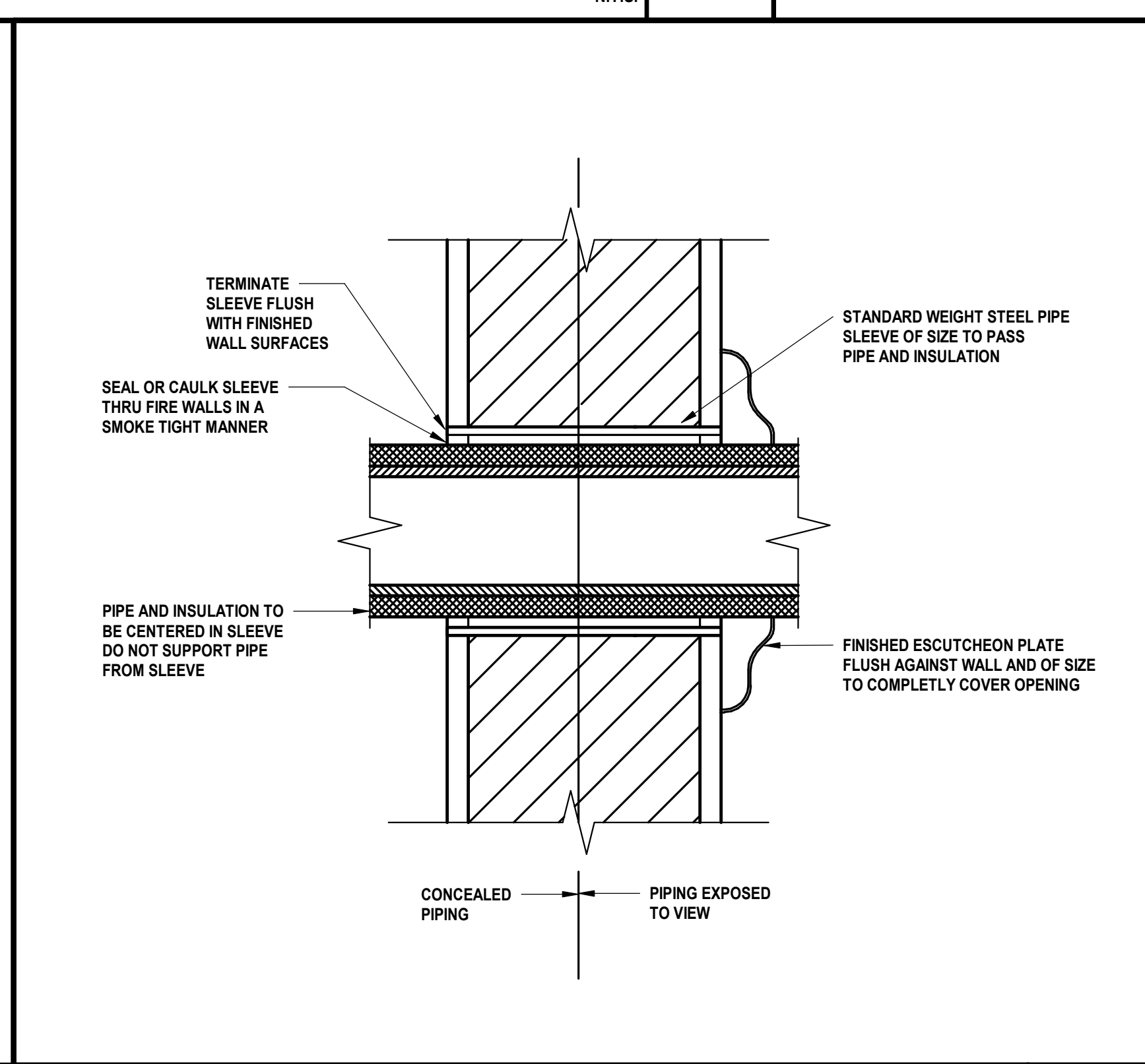
(UL # 147)

PIPING THRU WALL PENETRATION DETAIL 04
 N.T.S.

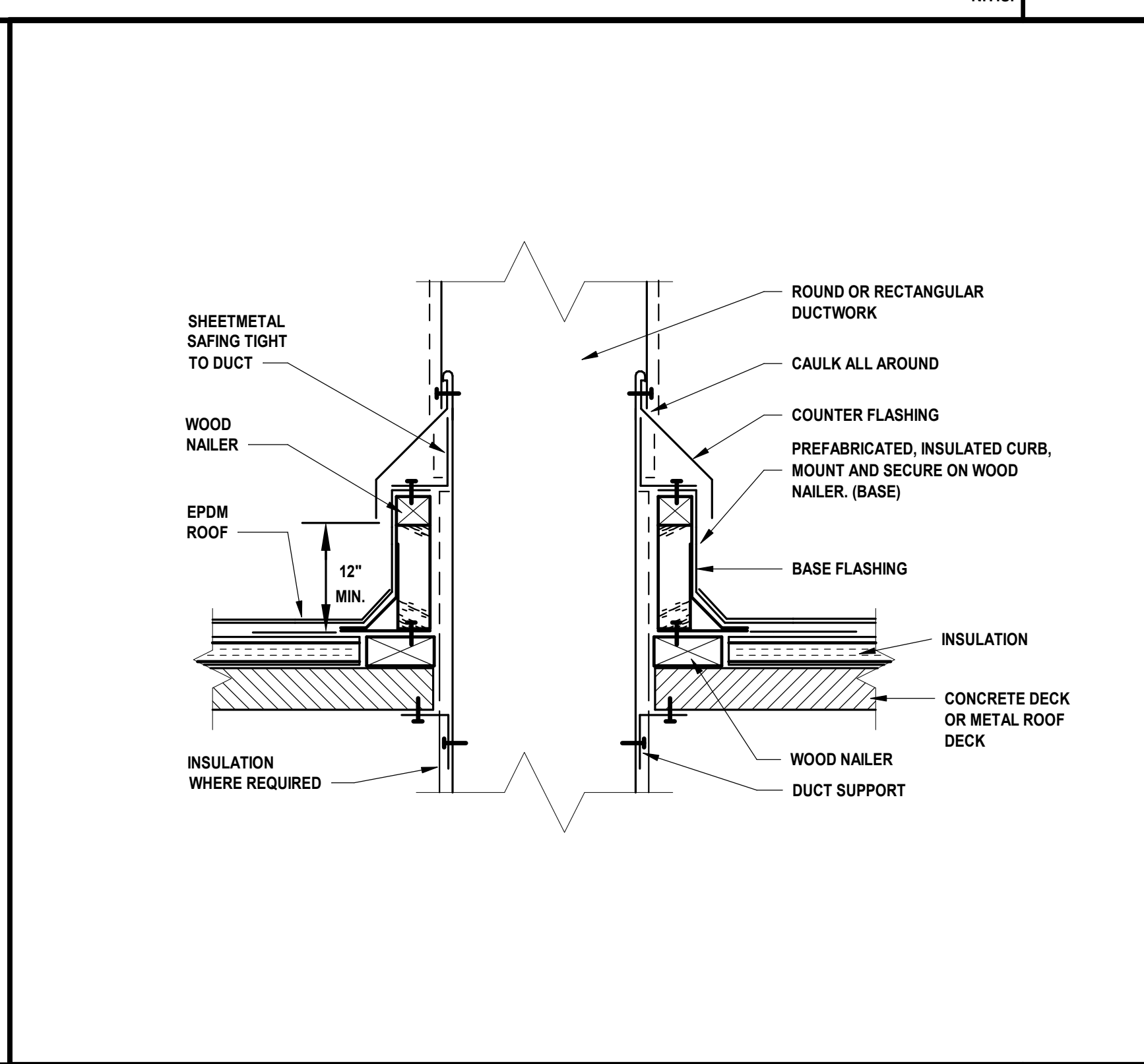


NOTE: A SYSTEM SIMILAR OR EQUIVALENT TO THE RPS "PIPE PORTAL SYSTEM" IS ALSO ACCEPTABLE.

PIPING ROOF PENETRATION 03
 N.T.S.



PIPING PENETRATION THRU INTERIOR WALL 02
 N.T.S.



DUCT ROOF PENETRATION 01
 N.T.S.

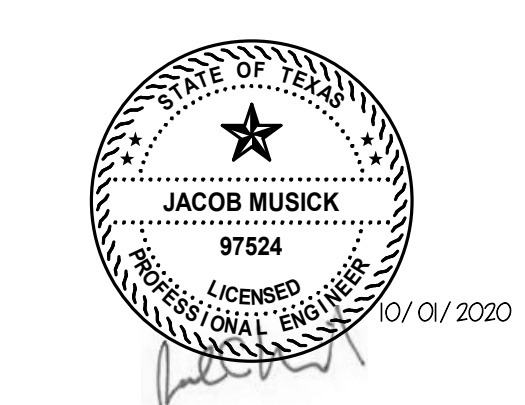
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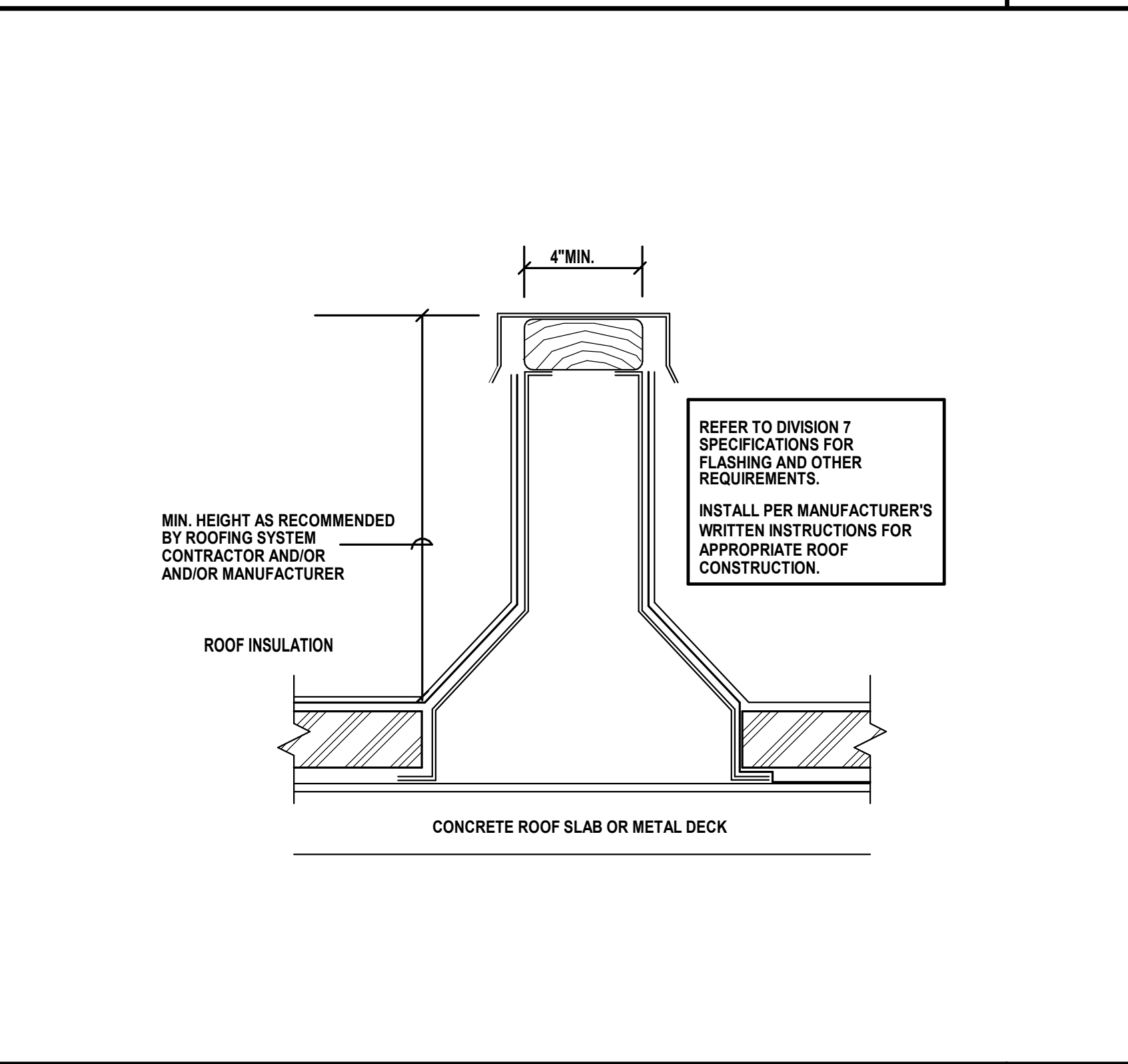
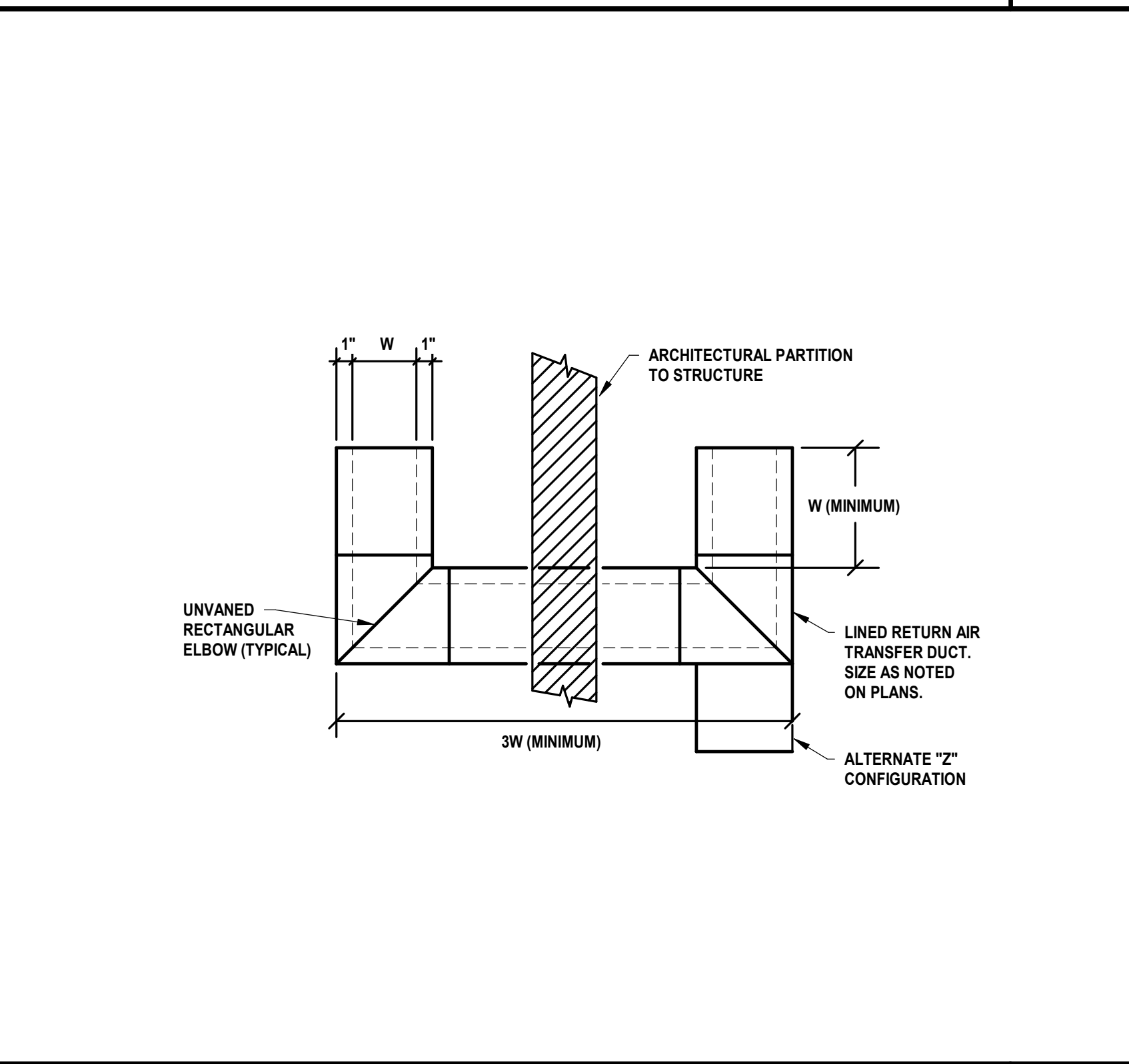
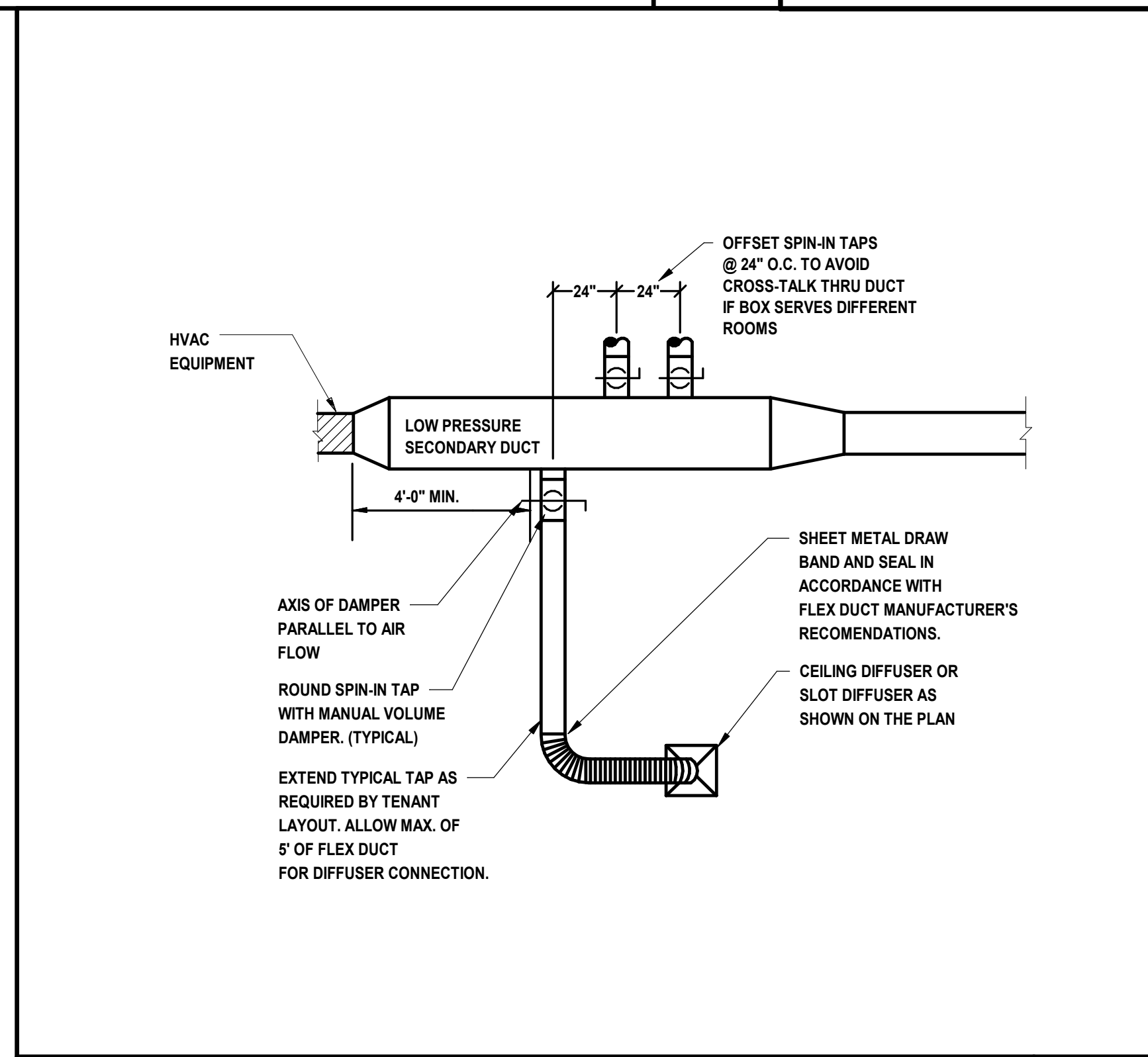
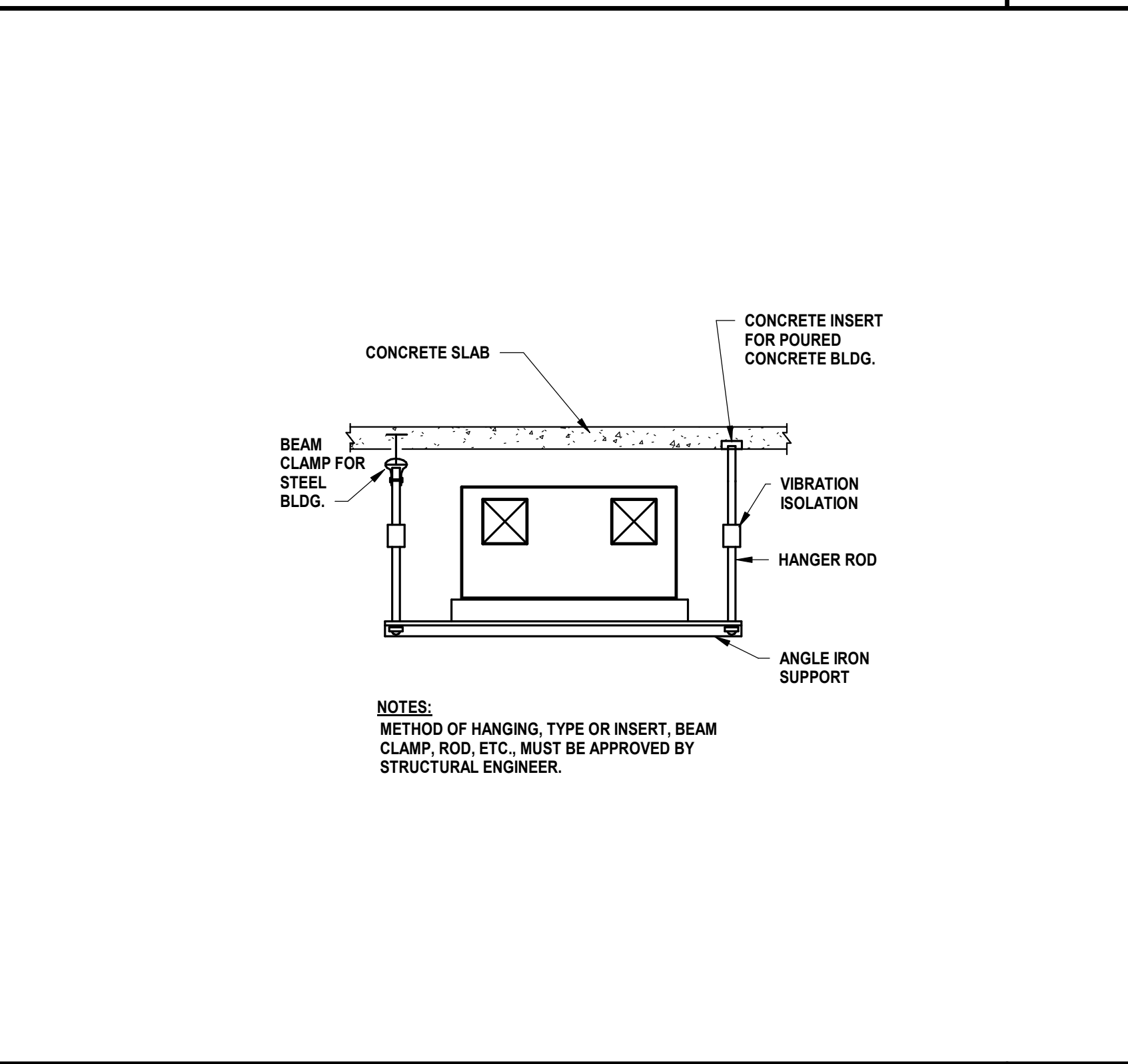
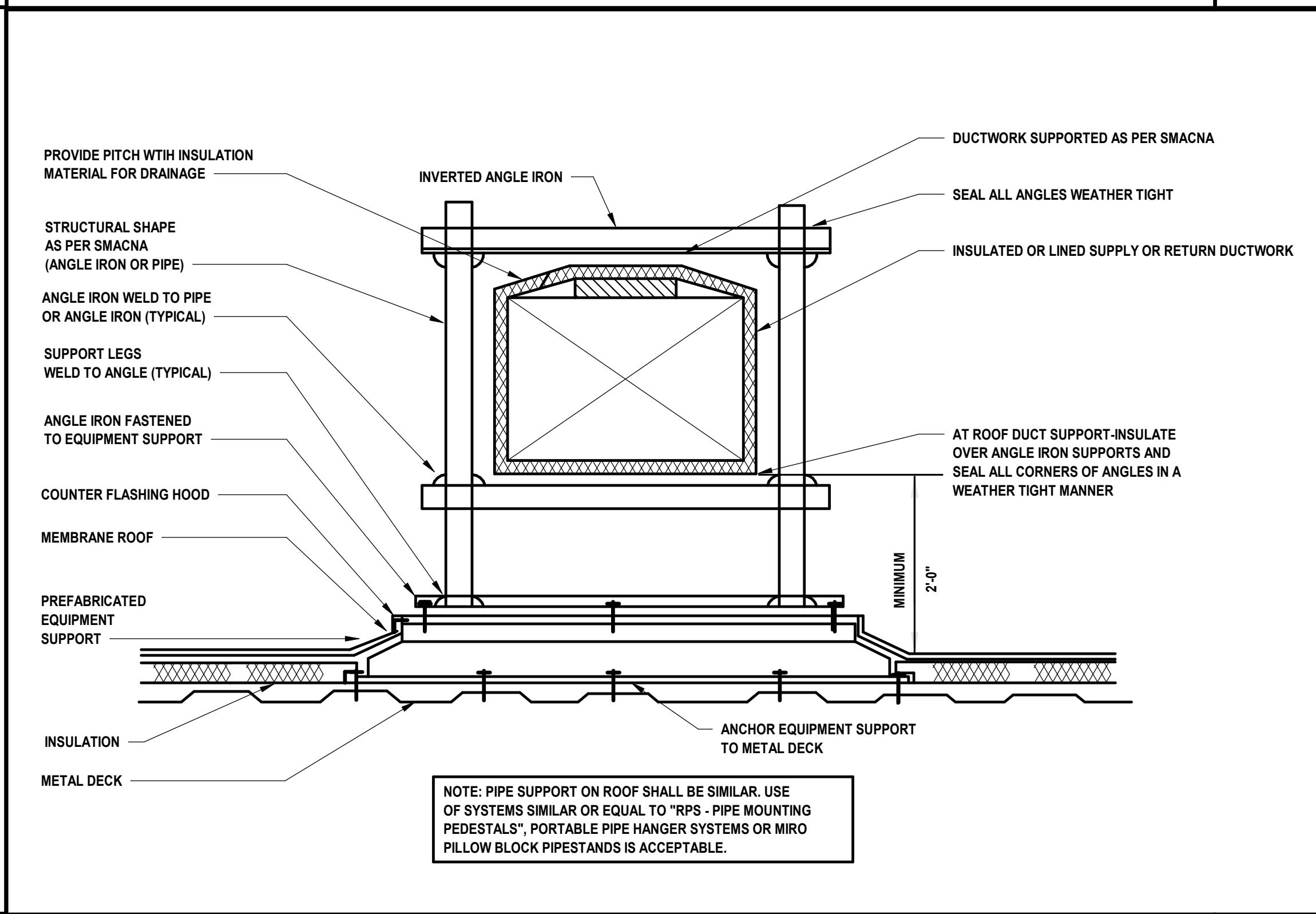
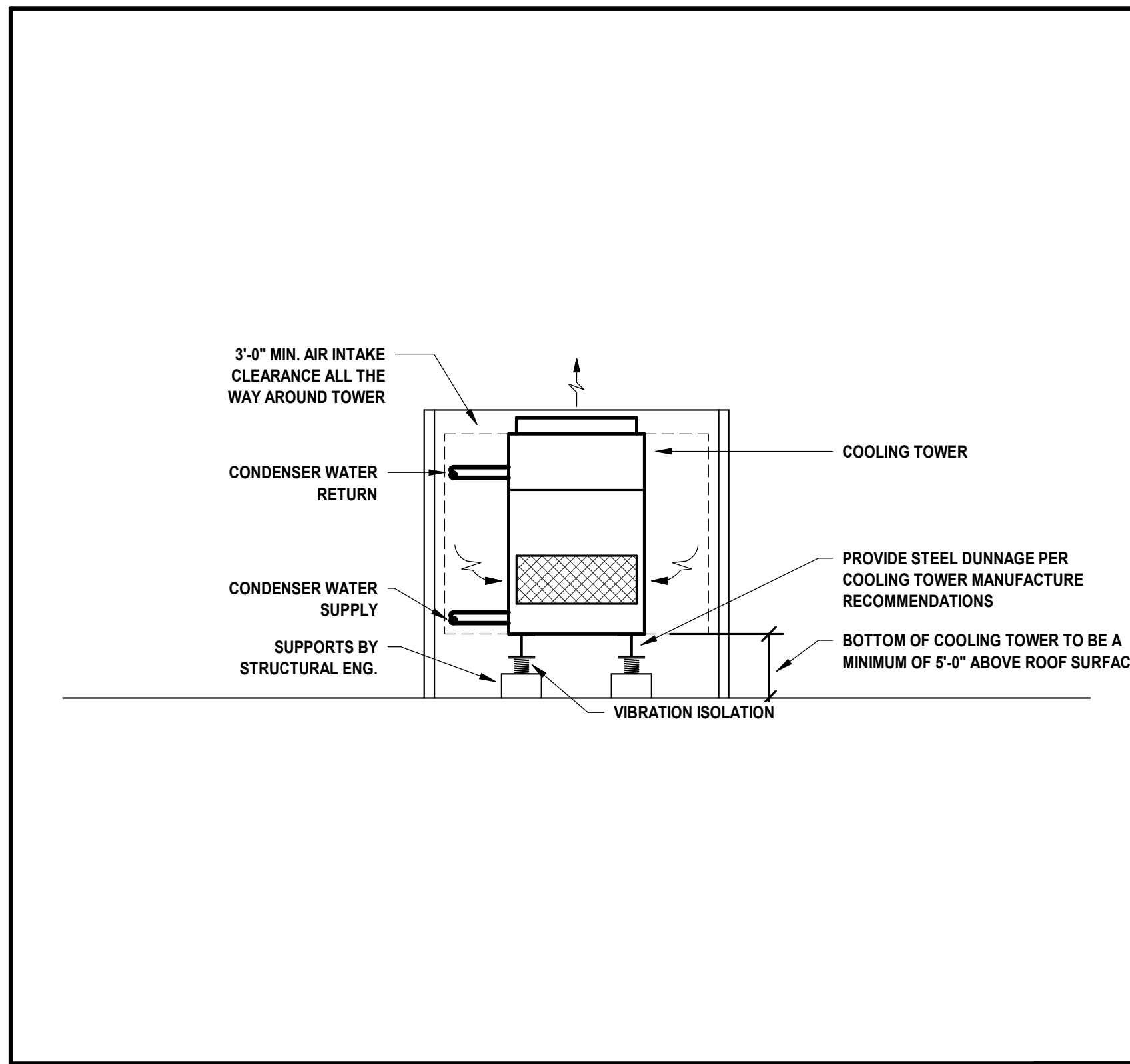
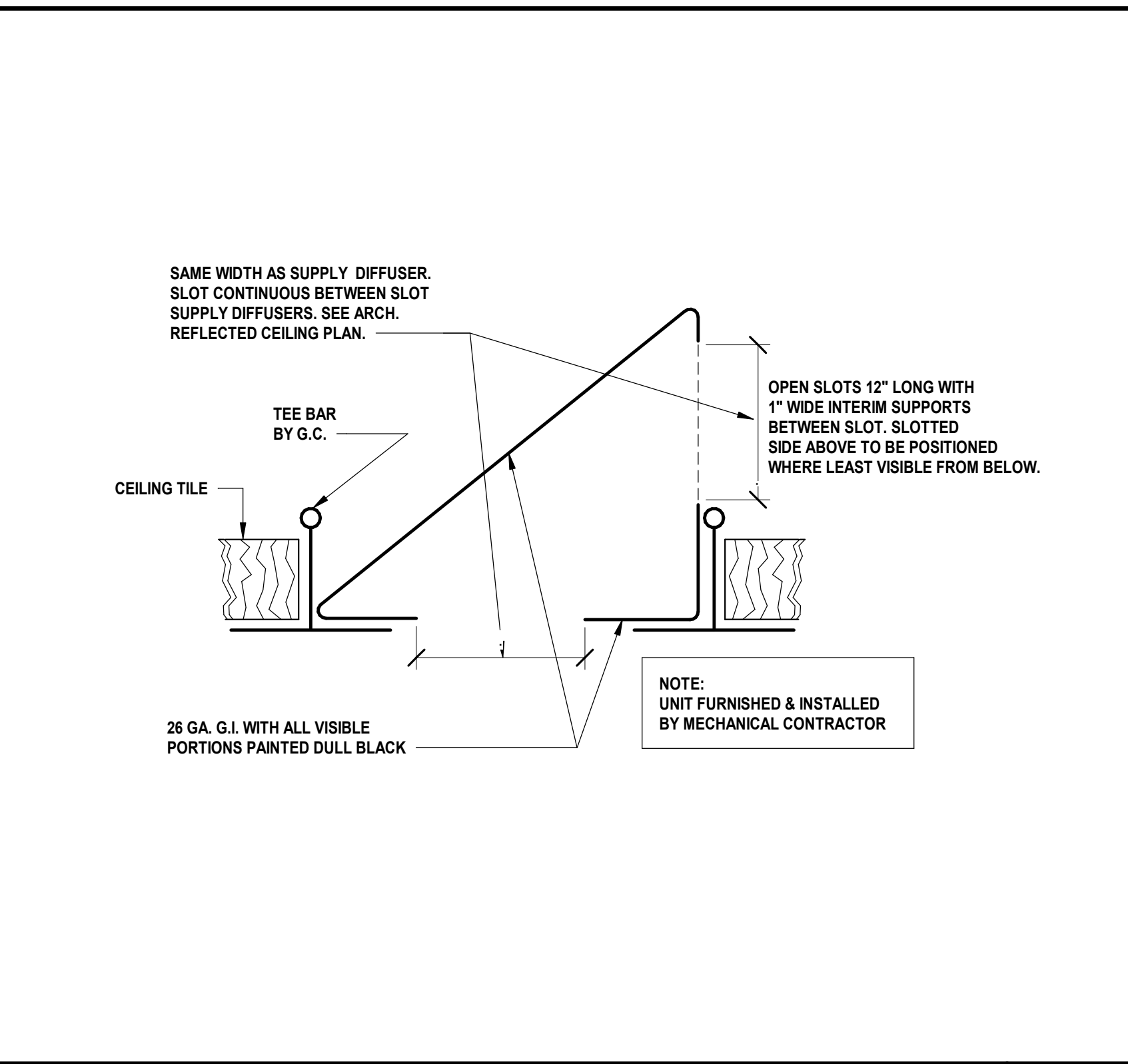
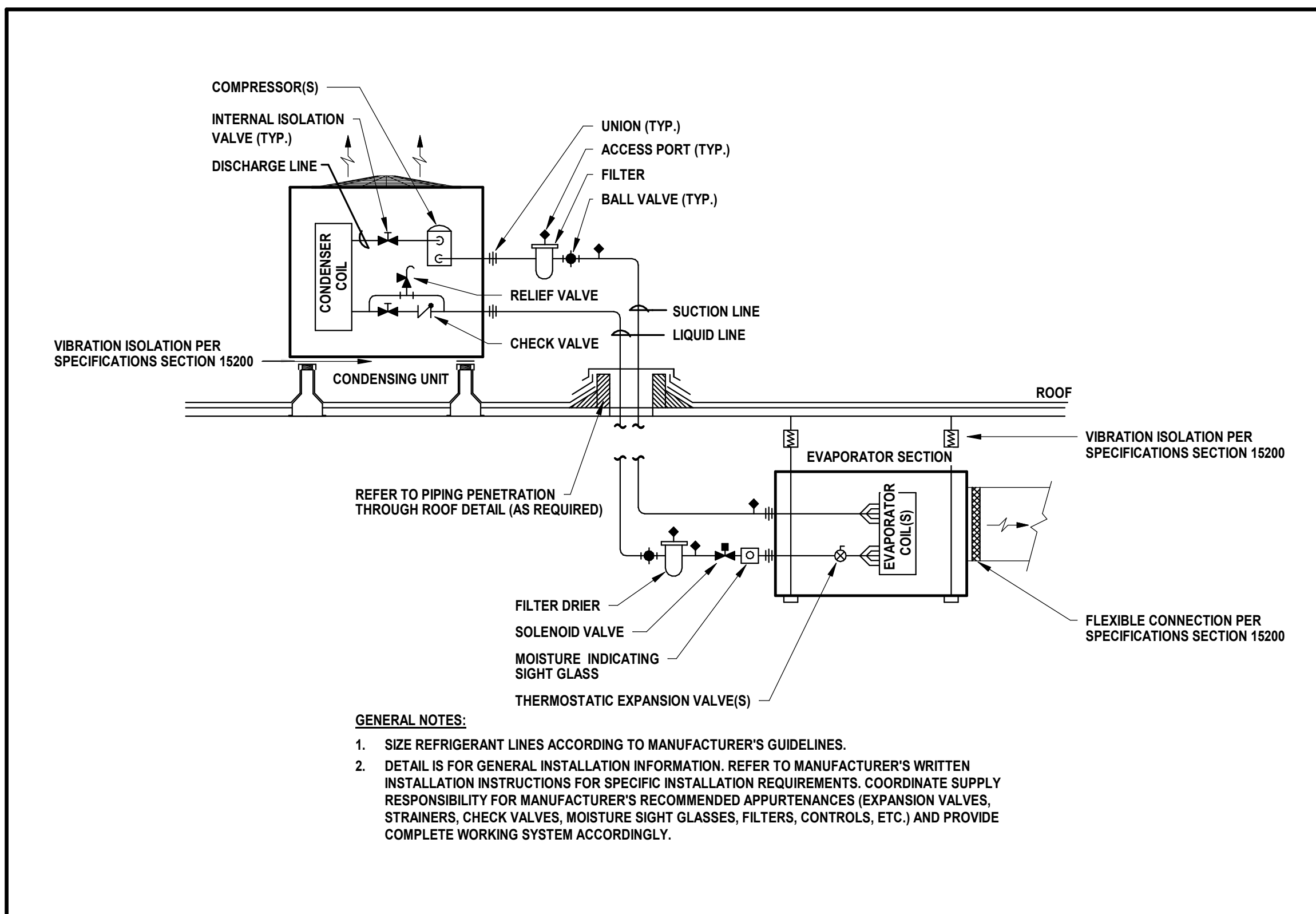
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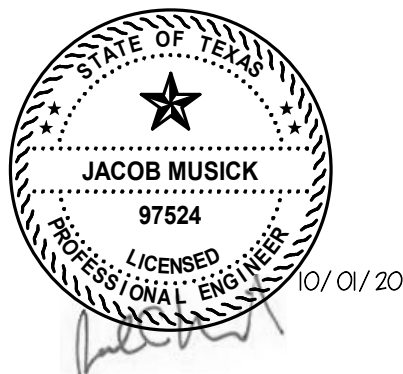
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DETAILS

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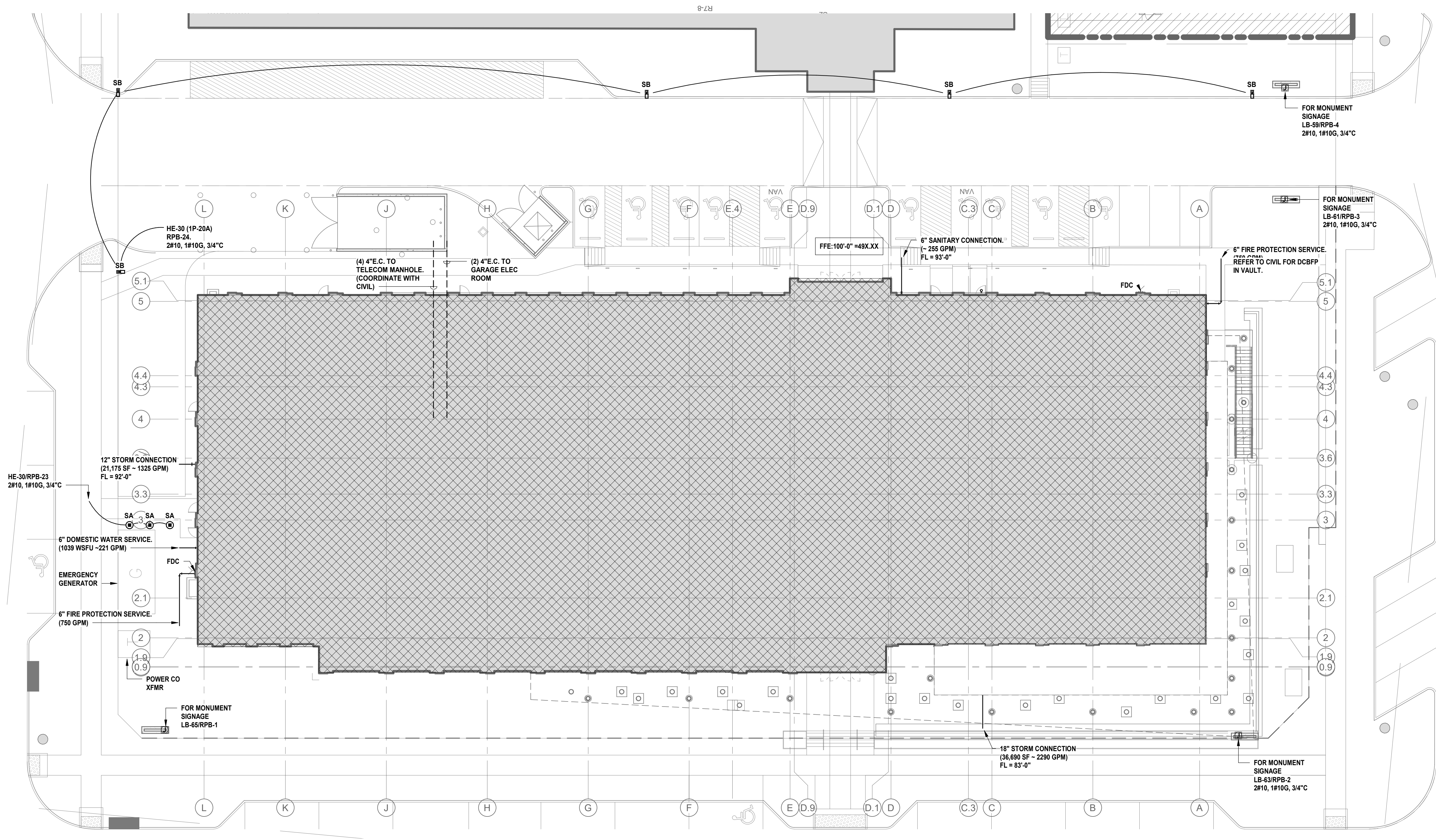
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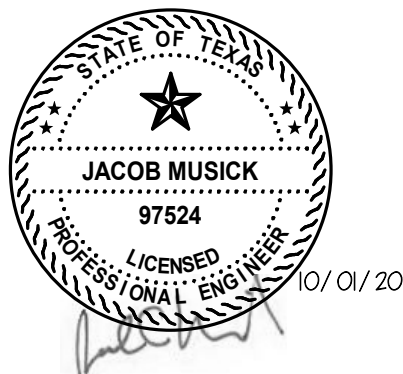
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01 SITE PLAN - MEP
 1/16" = 1'-0"

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 SITE PLAN

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