

PACKAGED HVAC EQUIPMENT SCHEDULE - OWNER SUPPLIED									
COOLING DESIGN TEMPERATURES: 97.2°F DB, 72.9°F MCWB, 21.9°F DAILY RANGE		HEATING DESIGN TEMPERATURES: 28°F DB 99%, 27°F DB 99.6%		ELEVATION: 787 FT					
SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
AC-3	AIR CONDITIONER	FOOD SERVICE	AACN RKA018CA3 GABEACA3B	216 MBH TOTAL COOLING, 162 MBH SENSIBLE, 95.0°F AMB, 85.0°F EDB, 68.7°F EWB, 6800 CFM @ 0.5" ESP, IER = 12.05, IER = 15.97 270 MBH INPUT, 218.7 MBH OUTPUT, 81% AFUE	460V/3φ 50 MCOCP 41 FLA	UNIT:2900# DUCT:570# CURB:91# DESIGN:4081#	M-1.1 MR-2.1 1,3,10/M	400 CFM MIN O/A 2400 CFM MIN O/A FOR INTERLOCK WITH KEF-5	(2) (71)(77)
AC-7 THRU 15	AIR CONDITIONER	MAIN SALES	AACN RKA030CA3 DABEACA3B	311 MBH TOTAL COOLING, 219 MBH SENSIBLE, 93.1°F AMB, 77.0°F EDB, 61.0°F EWB, 10000 CFM @ 0.5" ESP, IER = 10.58, IER = 13.2 540 MBH INPUT, 437 MBH OUTPUT, 81% AFUE	460V/3φ 90 MCOCP 66 FLA	UNIT:3102# DUCT:507# CURB:101# DESIGN:4204#	PLAN M-1.1 1,2,4/M	MIN 1805 CFM O/A UP TO 3421 CFM BASED ON CO2 LEVELS	(2) (55)(60)(77)
AC-32	AIR CONDITIONER	BREAK ROOM	AACN RKA020AA3 FJAE20000	61 MBH TOTAL COOLING, 54 MBH SENSIBLE, 82.2°F AMB, 87.2°F EDB, 66.5°F EWB, 2400 CFM @ 0.5" ESP, IER = 12.74, IER = 15.68 210 MBH INPUT, 168 MBH OUTPUT, 80% AFUE	460V/3φ 25 MCOCP 16 FLA	UNIT:1083# DUCT:144# CURB:79# DESIGN:2103#	PLAN M-1.1 1,2,4/M	500 CFM MIN O/A	(2) (55)
AC-35	AIR CONDITIONER	TIRE INSTALL	AACN RKA009BA3 GJAE00000	78 MBH TOTAL COOLING, 71 MBH SENSIBLE, 106.6°F AMB, 79.4°F EDB, 65.8°F EWB, 3600 CFM @ 0.5" ESP, IER = 12.74, IER = 16.56 292.5 MBH INPUT, 238 MBH OUTPUT, 81% AFUE	460V/3φ 30 MCOCP 21 FLA	UNIT:1083# DUCT:144# CURB:79# DESIGN:2103#	PLAN M-1.1 9/M	500 CFM MIN O/A	(2)
MAU-28	AIR CONDITIONER	BAKERY	AACN RKA009BA3 GABJCB3L0	116 MBH TOTAL COOLING, 109 MBH SENSIBLE, 82.2°F AMB, 87.2°F EDB, 66.5°F EWB, 3600 CFM @ 0.5" ESP, IER = 14.5, IER = 18.72 390 MBH INPUT, 315.9 MBH OUTPUT, 81% AFUE	460V/3φ 30 MCOCP 21 FLA	UNIT:1083# DUCT:144# CURB:79# DESIGN:2103#	M-1.1 MR-2.1 11/M	700 CFM MIN O/A 3600 CFM O/A FOR INTERLOCK WITH KEF-8,9,10	(3) (74)(78)
MAU-37	AIR CONDITIONER	ROTISSERIE	AACN RKA016CA3 GABJCB3L0	201 MBH TOTAL COOLING, 155 MBH SENSIBLE, 95°F AMB, 88.4°F EDB, 71.9°F EWB, 5000 CFM @ 0.5" ESP, IER = 11.76, IER = 15.78 405 MBH INPUT, 328.1 MBH OUTPUT, 81% AFUE	460V/3φ 50 MCOCP 36 FLA	UNIT:1531# DUCT:359# CURB:101# DESIGN:2696#	PLAN M-1.1 MR-2.1 10/M	3,500 CFM MIN INTERLOCK WITH KEF-12,13. CONTROL CIRCUIT POWERED BY HCC	(3) (74)
UH-3,4	UNIT HEATER	PUMP ROOM MECH ROOM	STERLING GGG075	SEPARATED COMBUSTION PROPELLER FAN GAS UNIT HEATER, 75 MBH INPUT, 82% EFFICIENT, 800 CFM, STAINLESS STEEL HEAT EXCHANGER, POWER VENT. SEALED COMBUSTION, 60" NOZZLE.	115V/1φ 1/12 HP 4.1 FLA	85#	M-1.1 17/M	T'STAT W/LOCKABLE COVER FURNISHED BY HVAC SUPPLIER; INSTALLED BY M.C. M.C. TO FURNISH ALL CONTROL WIRING AND CONDUIT	

GENERAL NOTES

- All equipment furnished by Costco, installed by m.c. contact Costco refrigeration dept. to coordinate delivery time.
- AC units provided with D.O.C. communications interface controlled by building management system by controls installer. sensor/t'stat S.I.O. sensors @ +72", t'stats at 48" A.F.F.
- Contractor to install all items listed in equipment submittal per manufacturers installation and operation manual
- Roof curbs provided by M.B.S. unless otherwise noted
- (2) ECONOMIZER WITH DDC ACTUATOR *115V CONVENIENCE OUTLET - FACTORY WIRED *POWER SWITCH 100 AMPS *2" PLEATED 30% EFFICIENT FILTERS *PHASE AND BROWN OUT PROTECTION *FACTORY INSTALLED DDC CONTROLS FURNISHED BY OTHERS
- (3) *MOTORIZED 100% OUTSIDE AIR DAMPERS - NO RA OPENING *115V CONVENIENCE OUTLET - FACTORY WIRED *POWER SWITCH 100 AMPS *2" PLEATED 30% EFFICIENT FILTERS *PHASE & BROWN OUT PROTECTION *FIELD INSTALLED DDC CONTROLS FURNISHED BY OTHERS
- (55) HVAC SUPPLY & RETURN DUCT DROP S.O.I.C.
- (60) OUTSIDE AIR CONTROLLED BY FIELD INSTALLED CO2 SENSOR TO MAINTAIN MAXIMUM 1,000 PPM CO2 AND MAINTAIN THE BUILDING AT A POSITIVE STATIC PRESSURE
- (71) OUTSIDE AIR CONTROLLED BY CAPTIVE AIRE HOOD CONTROL CABINET (HCC) TO PROVIDE MAKEUP AIR FOR HOOD. PROVIDE WIRING CONNECTION BETWEEN UNIT AND HCC. CONTACT CAPTIVE AIRE @ 425-212-5996
- (74) MODULATING GAS VALVE WITH STAINLESS STEEL HEAT EXCHANGER
- (77) DEHUMIDIFICATION OPTION - HOT GAS REHEAT
- (78) PROVIDE INTERIOR CABINET UV LIGHT

SPLIT SYSTEM HVAC EQUIPMENT SCHEDULE - OWNER SUPPLIED									
SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
CU-1	AIR CONDITIONER	PHARMACY/ HEARING	LG KUMXA361A	HEAT PUMP OUTDOOR UNIT, 3 NOM. TONS, 3/8" LIQ, 3/4" GAS, COOLING COP = 4.25 HEATING COP = 4.00 36.0 MBH COOLING, 45.0 MBH HEAT @ 47°F.	208V/1φ 40 MCOCP 32.7 MCA	UNIT: 218#	MR-2.1	PROVIDE Y-BRANCH KIT P/N: PMLB5620	
BDU-11	MODE CONTROL UNIT	PHARMACY	LG PMSB3620	2-PORT MODE CONTROL UNIT, 48 MBH MAX. CAPACITY, FROM CU-#: 3/8" LIQ., 3/4" GAS, TO IU-#: 1/4" LIQ., 3/8" GAS.	POWERED BY CU-1	UNIT: 13#	MR-2.1		
IU-111, 112	AIR CONDITIONER	PHARMACY	LG KNMKB091A	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 318/247/194 CFM 0.2" S.P. MAX.	POWERED BY CU-1	UNIT: 39#	MR-2.1	O/A FROM WAREHOUSE	
BDU-12	MODE CONTROL UNIT	HEARING	LG PMSB3620	2-PORT MODE CONTROL UNIT, 48 MBH MAX. CAPACITY, FROM CU-#: 3/8" LIQ., 3/4" GAS, TO IU-#: 1/4" LIQ., 3/8" GAS.	POWERED BY CU-1	UNIT: 13#	MR-2.1		
IU-121	AIR CONDITIONER	HEARING	LG KNMKB091A	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 318/247/194 CFM 0.2" S.P. MAX.	POWERED BY CU-1	UNIT: 39#	MR-2.1	O/A FROM WAREHOUSE	
CU-2	AIR CONDITIONER	PHARMACY/ HEARING	LG KUMXA361A	HEAT PUMP OUTDOOR UNIT, 3 NOM. TONS, 3/8" LIQ, 3/4" GAS, COOLING COP = 4.25 HEATING COP = 4.00 36.0 MBH COOLING, 45.0 MBH HEAT @ 47°F.	208V/1φ 40 MCOCP 32.7 MCA	UNIT: 218#	MR-2.1	PROVIDE Y-BRANCH KIT P/N: PMLB5620	
BDU-21	MODE CONTROL UNIT	PHARMACY	LG PMSB3620	2-PORT MODE CONTROL UNIT, 48 MBH MAX. CAPACITY, FROM CU-#: 3/8" LIQ., 3/4" GAS, TO IU-#: 1/4" LIQ., 3/8" GAS.	POWERED BY CU-2	UNIT: 13#	MR-2.1		
IU-211, 212	AIR CONDITIONER	PHARMACY	LG KNMKB091A	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 318/247/194 CFM 0.2" S.P. MAX.	POWERED BY CU-2	UNIT: 39#	MR-2.1	O/A FROM WAREHOUSE	
BDU-22	MODE CONTROL UNIT	HEARING	LG PMSB3620	2-PORT MODE CONTROL UNIT, 48 MBH MAX. CAPACITY, FROM CU-#: 3/8" LIQ., 3/4" GAS, TO IU-#: 1/4" LIQ., 3/8" GAS.	POWERED BY CU-2	UNIT: 13#	MR-2.1		
IU-221	AIR CONDITIONER	HEARING	LG KNMKB091A	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 318/247/194 CFM 0.2" S.P. MAX.	POWERED BY CU-2	UNIT: 39#	MR-2.1	O/A FROM WAREHOUSE	
CU-3	AIR CONDITIONER	OPTICAL	LG KUMXA361A	HEAT PUMP OUTDOOR UNIT, 3 NOM. TONS, 3/8" LIQ, 3/4" GAS, COOLING COP = 4.25 HEATING COP = 4.00 36.0 MBH COOLING, 45.0 MBH HEAT @ 47°F.	208V/1φ 40 MCOCP 32.7 MCA	UNIT: 218#	MR-2.1		
BDU-31	MODE CONTROL UNIT	OPTICAL	LG PMSB3640	4-PORT MODE CONTROL UNIT, 180 MBH MAX. CAPACITY, FROM CU-#: 1/2" LIQ., 1-1/8" SUC., 7/8" GAS, TO IU-#: 3/8" LIQ., 5/8" SUC.	POWERED BY CU-3	UNIT: 37#	MR-2.1		
IU-311, 312, 313, 314	AIR CONDITIONER	OPTICAL	LG LDN97H4V	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 318 (MAX)/194 (MIN) CFM 0.2" S.P. MAX	POWERED BY CU-3	UNIT: 39#	MR-2.1	O/A FROM WAREHOUSE	
CU-4	AIR CONDITIONER	OFFICE	LG KUMXA361A	HEAT PUMP OUTDOOR UNIT, 3 NOM. TONS, 3/8" LIQ, 3/4" GAS, COOLING COP = 4.25 HEATING COP = 4.00 36.0 MBH COOLING, 45.0 MBH HEAT @ 47°F.	208V/1φ 40 MCOCP 32.7 MCA	UNIT: 218#	MR-2.1		
BDU-41	MODE CONTROL UNIT	OFFICE	LG PMSB3640	4-PORT MODE CONTROL UNIT, 180 MBH MAX. CAPACITY, FROM CU-#: 1/2" LIQ., 1-1/8" SUC., 7/8" GAS, TO IU-#: 3/8" LIQ., 5/8" SUC.	POWERED BY CU-4	UNIT: 37#	MR-2.1		
IU-411, 412, 413, 414	AIR CONDITIONER	OFFICE	LG KNMKB091A	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 318/247/194 CFM 0.2" S.P. MAX.	POWERED BY CU-4	UNIT: 39#	MR-2.1	O/A FROM WAREHOUSE	

GENERAL NOTES

- All equipment furnished by owner. Refer to HVAC Equipment Responsibilities for installation.
- AC units provided with D.O.C. communications interface controlled by building management system by controls installer. sensor/t'stat S.O.I.C. sensors @ +72", t'stats at 48" A.F.F.
- Refrigeration contractor to install all items listed in equipment submittal per manufacturers installation and operation manual
- For LG multi-split layout, piping information and equipment submittals, contact Alex Noble at Johnson Barrow: 425.445.5935 or ALEX@JBARROW.COM
- MINIMUM REQUIRED LINE LENGTH FROM CU TO WYE IS 16.4 FEET, WYE TO BDU IS 16.4 FEET, AND BDU TO IU-# IS 16.4 FEET.
- MAX LENGTH FROM BDU TO IU-# IS 49 FEET.

WALL LOUVER SCHEDULE - S.I.O.									
SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
LV-1	WEATHER LOUVER	PUMP ROOM	RUSKIN ELF 375DX	STATIONARY ALUMINUM LOUVER W/4" DEEP FRAME. PROVIDE WITH ALUMINUM BIRD SCREEN.			PLAN M-1.1	SIZE TO MATCH WALL OPENING.	
LV-2	WEATHER LOUVER	PUMP ROOM	RUSKIN ELM 6375	36/36 ADJUSTABLE LOUVER WITH SCREEN AND DAMPER MOTOR.			PLAN M-1.1	INTERLOCKED W/ EF-2 AND FIRE PUMP CONTROLLER.	
LV-3	WEATHER LOUVER	MECHANICAL RM	RUSKIN ELM 6375	48/48 ADJUSTABLE LOUVER WITH SCREEN AND DAMPER MOTOR. WIRING TO CONTROL PANEL BY E.C.			PLAN M-1.1	INTERLOCKED W/ EXHAUST FAN CONTROL PANEL.	
LV-4	WEATHER LOUVER	MECHANICAL RM	RUSKIN ELF 375DX	48/64 STATIONARY ALUMINUM LOUVER W/4" DEEP FRAME. PROVIDE WITH ALUMINUM BIRD SCREEN.			PLAN M-1.1	SIZE TO MATCH EF-30&31 W.O.	
LV-5	WEATHER LOUVER	MECHANICAL RM	RUSKIN ELM 6375	48/48 ADJUSTABLE LOUVER WITH SCREEN AND DAMPER MOTOR. WIRING TO CONTROL PANEL BY E.C.			PLAN M-1.1	INTERLOCKED W/ EXHAUST FAN CONTROL PANEL.	

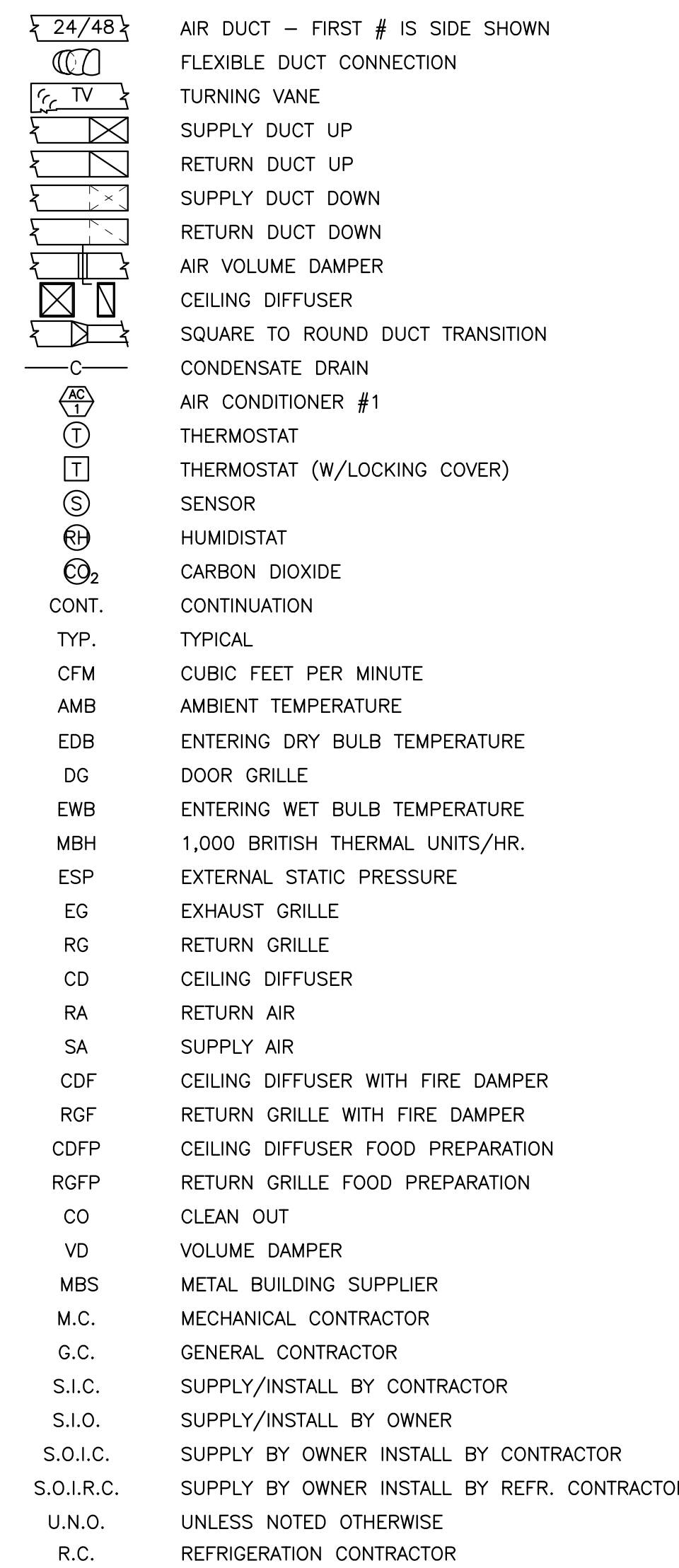
GENERAL NOTES: (APPLIES TO ENTIRE SCHEDULE AS APPLICABLE)

- ALL LOUVERS TO BE SUPPLIED AND INSTALLED BY M.B.S.
- SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.



PLAN INDEX	DETAIL	SCOPE
M-0.1 MECHANICAL HVAC SCHEDULES, HVAC LEGEND, GENERAL NOTES, AND INDEX	NONE	GC/RC
M-0.2 MECHANICAL HVAC SCHEDULES AND DETAILS	10,19,20,41,43	GC/RC
M-0.3 MECHANICAL HVAC DETAILS	1,2,3,4,5,8,11,13,15, 16,17,18,23,28,29, 47,64,85,80,105, 9,21,25,24,25,27,37, 48,70,82,84,85,86,87	GC/RC
M-0.4 MECHANICAL HVAC DETAILS	NONE	GC/RC
M-1.1 MAIN MECHANICAL PLAN	NONE	GC/RC
M-2.1 ENLARGED HVAC PLANS: FRESH LINE, WELLNESS, PARTIAL, TIRE INSTALL, & RECEIVING	NONE	GC
MR-1.1 MECHANICAL CONTROLS PLAN	NONE	RC
MR-1.2 HYVAC CONTROLS SCHEDULE AND DETAILS	26,83,89,90,91, 101,102,103,104	RC
MR-2.1 ENLARGED R.C. HVAC PLANS: PARTIAL, WELLNESS, TIRE INSTALL, FRESH LINE	NONE	RC

HVAC LEGEND



CODES

1. APPLICABLE MECHANICAL CODE: 2018 IMC
APPLICABLE ENERGY CODE: 2018 IECC

GENERAL NOTES

- M.B.S. TO LOCATE ROOF PENETRATIONS AND SET ROOF CURBS. PENETRATIONS SHALL BE SUCH THAT SUPPLY RETURN AND/OR EXHAUST DUCT DROPS CAN EXTEND STRAIGHT DOWN TO CEILING SPACE OR DIFFUSER PACKAGE, SALES FLOOR AC UNITS IN HIGH RACKING SHALL BE ABOVE ASLE & SUPPLY DUCTS FOR DUCT PACKAGES TO BE CENTERED BETWEEN JOISTS. COORDINATE EQUIPMENT LOCATION WITH LIGHTS, BLDG. STRUCTURE, PIPING, SWAY BRACING AND SKYLIGHTS. REQUIRED CLEARANCE FOR ROOFTOP UNIT IS SHOWN.
- LABEL ALL ROOF TOP EQUIPMENT (AC, EF, ETC) ON THE INSIDE & OUT OF THE BUILDING WITH BLACK 6" BLOCK LETTERING LOCATED WHERE VISIBLE FROM ROOF HATCH.
- COORDINATE ALL MECHANICAL DUCTWORK LOCATIONS WITH ELECTRICAL EQUIPMENT. NO DUCTWORK WILL BE ALLOWED TO RUN OVER THE TOP OF ELECTRICAL DISTRIBUTION EQUIPMENT OR PANEL PER NEC REQUIREMENTS.
- RUN CONDENSATE PIPING IN ROOF TRUSS SPACE PERPENDICULAR OR PARALLEL TO BUILDING JOIST OR GIRDERS, FOR PASSING BELOW SOLID GIRDERS MOUNT PIPING 6" MAXIMUM FROM BOTTOM OF GIRDER. DO NOT BLOCK LIGHTING & SKYLIGHTS. SLOPE AT 2% UNLESS OTHERWISE NOTED.
- RUN ALL SA, RA AND EXHAUST DUCTS AND FLUES BETWEEN THE ROOF AND CEILING SPACE STRAIGHT WITH NO ANGLES OR OFFSETS. SA & RA DUCT SHALL BE PROVIDED WITH INTERNAL INSULATION WHERE VISIBLE FROM THE SALES FLOOR. ALL OFFSETS FOR FLUES AND EXHAUST DUCTS TO BE ABOVE FINISHED CEILING. CONTACT ARCHITECT TO RESOLVE ANY CONFLICTS WITH STRUCTURE.
- MAINTAIN A MINIMUM OF 10"-0" BETWEEN EXHAUST OUTLET AND MECHANICAL EQUIPMENT FRESH AIR INTAKES AND BUILDING OPENINGS.
- MAINTAIN A MINIMUM OF 10"-0" BETWEEN ALL SERVICEABLE MECHANICAL EQUIPMENT AND ROOF EDGE/PARAPET. DISTANCE CAN BE REDUCED TO MANUFACTURER SPECIFIED SERVICE CLEARANCES WHERE PARAPET EXTENDS 42" MIN. ABOVE ADJACENT ROOF LEVEL.
- FLEE TERMINALS SHALL BE LOCATED 2'-0" ABOVE HIGHEST ROOF STRUCTURE OR PARAPET LOCATED WITH 10'.
- HORIZONTAL DUCT WORK AT ANCLLARY SPACES SHALL BE LOCATED ABOVE STRUCTURAL FRAMING CONCEALED FROM VIEW UNLESS OTHERWISE NOTED.
- SEE MECHANICAL SCHEDULES TO VERIFY CONTROL TYPE, REQUIRED INTERLOCKS AND CONTRACTOR RESPONSIBILITY TO FURNISH AND/OR INSTALL. SEE SCHEDULE FOR MOUNTING HEIGHTS.
- ROOF CURBS BY MBS UNLESS OTHERWISE NOTED.

EXHAUST FAN EQUIPMENT SCHEDULE - OWNER SUPPLIED

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
FCP-1	CONTROL PANEL	EF-31	MICRO THERMO	PREWIRED EXHAUST FAN CONTROL PANEL PROVIDED BY CONTRACTOR. INCLUDES ALARM, TEMP. SENSOR AND EMERGENCY PULL STATIONS. FINAL CONNECTIONS BY E.C.	208V/3φ		80/M	CONTACT: MTORDER@PARKER.COM REFERENCE: PART# 963-0185 LEAD TIME: 4-6 WEEKS	

EXHAUST FAN EQUIPMENT SCHEDULE - CONTRACTOR SUPPLIED

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
EF-1	EXHAUST FAN	PUBLIC RESTROOM	COOK ACE-3 150C13D	2000 CFM @ 0.50" SP. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED UNDER MOTOR DOME. CONTROLLED BY TS-1 PROVIDED BY M.C.	3/4 HP 120V/1φ	108#	15/M	17" SQ. ROOF OPENING	(1) (2) (4)
EF-2	EXHAUST FAN	PUMP ROOM	COOK XWD 18XW34D152	3500 CFM @ 0.35" SP. CONTROLLED BY THERMOSTAT PROVIDED BY M.C. INSTALLED BY E.C.	3/4HP 120V/1φ	120#	47/M	25" SQ. ROOF OPENING.	(2) (4) (5)
EF-3,4,33	EXHAUST FAN	TIRE CENTER RECEIVING	COOK GEMINI GC-166	140 CFM @ 0.25" SP. CONTROLLED BY MOTION SENSOR SWITCH, PROVIDED BY E.C.	49 WATTS 120V/1φ	15#	13/M	8"φ ROOF OPENING PROVIDE DUCT ROOF CAP	(2) (3)
EF-6	EXHAUST FAN	MEAT PREP	COOK ACE-DEC 135	1170 CFM @ 0.38" SP. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED UNDER MOTOR DOME. INTERLOCK WITH POWERSOAK SINK BY E.C.	1/6HP 120V/1φ	108#	15/M	15" SQ. ROOF OPENING	(1) (2) (4)
EF-7	EXHAUST FAN	DELI	COOK ACE-DEC 090	600 CFM @ 0.25" SP. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED UNDER MOTOR DOME. INTERLOCK WITH DISHWASHER BY E.C.	1/8HP 120V/1φ	42#	15/M	14" SQ. ROOF OPENING	(1) (2) (4)
EF-23	EXHAUST FAN	CHICKEN PREP	COOK ACE-DEC 101 0R60	160 CFM @ 0.50" SP. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED UNDER MOTOR DOME. INTERLOCK WITH POWERSOAK SINK BY E.C.	1/8HP 120V/1φ	42#	15/M	10" SQ. ROOF OPENING	(1) (2) (4)
EF-30	EXHAUST FAN	MECHANICAL RM.	COOK XWD 10XW40D15	750 CFM @ 0.12" SP. INTERLOCK WITH LIGHTING BY E.C.	95 HP 120V/1φ	30#	47/M	13" SQ. ROOF OPENING.	(2) (3) (5)
EF-31	EXHAUST FAN	MECHANICAL RM.	COOK ANB 42A10B	14,000CFM @ 0.50" SP. CONTROLLED BY EXHAUST FAN CONTROL PANEL PROVIDED BY G.C., WIRED BY E.C.	5 HP 208V/3φ	284#	47/M	31" SQ. ROOF OPENING.	(2) (5)
SF-6	SUPPLY FAN	FOOD SERVICE	COOK SON-HEC 090	300 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCLLARY STRUCTURE. CONTROLLED BY T'STAT (40F MIN.) PROVIDED BY M.C., INSTALLED BY E.C. T'STAT TO BE MOUNTED @ 24" A.F.F.	1/6HP 120V/1φ	90#	30/M		(4)
TF-21	TRANSFER FAN	DEMO ROOM	COOK SON-HEC 090	550 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCLLARY STRUCTURE. CONTROLLED BY T'STAT PROVIDED BY M.C., INSTALLED BY E.C. T'STAT TO BE MOUNTED @ 48" A.F.F.	1/6HP 120V/1φ	90#	29/M	12" SQ. INLET/OUTLET.	(4) (5)
TF-22,23	TRANSFER FAN	EDP	COOK SON-DEC 120 GALV	1200 CFM @ 0.50" SP. INLINE TRANSFER FAN SUPPORTED BY ANCLLARY STRUCTURE. CONTROLLED BY MODULATING T'STAT PROVIDED BY M.C. T'STAT TO BE MOUNTED @ 48" A.F.F. LINE VOLTAGE BY E.C. LOW VOLTAGE BY M.C.	1/2HP 120V/1φ	150#	29/M	18" SQ. INLET/OUTLET. T'STAT SETPOINT: 75°F OVDC @ 75°F, 10VDC @ 75°F	(4) (5)
TF-24	TRANSFER FAN	MPU	S&P TD150S	250 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCLLARY STRUCTURE. CONTROLLED BY 12HR TIMER PROVIDED BY M.C., INSTALLED BY E.C. TIMER TO BE MOUNTED @ 48" A.F.F.	60.9WATTS 120V/1φ	15#	105/M	6"φ. INLET/OUTLET.	(4) (5)
TF-25	TRANSFER FAN	QUIET ROOM	S&P TD150S	250 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCLLARY STRUCTURE. INTERLOCK WITH LIGHTING BY M.C.	60.9WATTS 120V/1φ	15#	105/M	6"φ. INLET/OUTLET.	(4) (5)
TF-27	TRANSFER FAN	MSB ROOM	COOK SON-D 100 GALV	1200 CFM @ 0.38" SP. INLINE TRANSFER FAN SUPPORTED BY ANCLLARY STRUCTURE. CONTROLLED BY MODULATING T'STAT PROVIDED BY M.C. T'STAT TO BE MOUNTED @ 48" A.F.F. LINE VOLTAGE BY E.C. LOW VOLTAGE BY M.C.	1/2HP 120V/1φ	150#	29/M	14" SQ. INLET/OUTLET. T'STAT SETPOINT: 85°F OVDC @ 75°F, 10VDC @ 85°F	(4) (5)
TS-1	TIME SWITCH	EF-1	TORK EW1018	PROGRAMMABLE, 7 DAY SPT, 20 ON/OFF SET POINTS. WITH MANUAL OVERRIDE. NEMA 3R ENCLOSURE. TIME CLOCK PROVIDED BY M.C.	120V/1φ		PLAN M-2.1 PLAN M-1.1		

GENERAL NOTES: (APPLIES TO ENTIRE SCHEDULE AS APPLICABLE)

- ALL SWITCHES AND T-STATS MOUNTED AT 42" AFF UNLESS OTHERWISE NOTED SEE DESCRIPTION FOR RESPONSIBLE CONTRACTOR.
- DO NOT ADJUST SPEED CONTROL OF FAN MOTOR SPEED.
- PROVIDE MOTOR STARTER AND OVERLOAD PROTECTION FOR ALL MOTORS PER SPEC SECTION 230000.

SCHEDULE NOTES: (SEE COLUMN ON RIGHT FOR APPLICABILITY):

- ROOF CURB FOR METAL ROOF PROVIDED BY M.B.S.
- PROVIDE BACKDRAFT DAMPER
- ALLOW UP TO 200% OF AIR FLOW FOR BALANCE.
- PROVIDE FAN SPEED CONTROLLER MOUNTED IN ACCESSIBLE LOCATION NEAR EQUIPMENT (U.N.O.)
- PROVIDE WITH OUTLET SAFETY SCREEN.

HVAC EQUIPMENT RESPONSIBILITIES

ROOF TOP UNITS	CURB	SET/HANG UNIT	ELECTRICAL	NATURAL GAS	REFRIGERANT PIPING	CONDENSATE PIPING	DUCTWORK ⁶	T'STAT/SENSORS	LOW VOLTAGE
AC-3 (FOOD SERVICE)	SPAN ⁶	GC	GC ⁶	GC ⁶ </					

AIR DOOR EQUIPMENT SCHEDULE - OWNER SUPPLIED

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
AD-1,2	AIR DOOR	VESTIBULE	POWERED AIRE ETD-2-96E	ELECTRIC HEATED AXIAL FAN UNIT HEATER, FRONT INTAKE, 8" LONG, 3174/2134 AVG. FPM, 7614/5127 CFM, 20 KW, 63 DBA, COMES WITH REMOTE ON/OFF, REMOTE HEAT HIGH/LOW, & T-STAT. MOUNT SWITCHES @ 42" A.F.F.	(2) 3/4 HP 284#	284#	PLAN M-1.1	SEE SPECIFICATIONS; SINGLE ELECTRICAL CONNECTION. ALL ELECTRICAL BY E.C.	
AD-3	AIR DOOR	BREAD DOOR	POWERED AIRE ETD-3-120E	ELECTRIC HEATED AXIAL FAN UNIT HEATER, FRONT INTAKE, 8" LONG, 3174/2134 AVG. FPM, 7614/5127 CFM, 20 KW, 63 DBA, COMES WITH REMOTE ON/OFF, REMOTE HEAT HIGH/LOW, & T-STAT. MOUNT SWITCHES @ 42" A.F.F.	(3) 3/4 HP 284#	284#	PLAN M-1.1	SEE SPECIFICATIONS; SINGLE ELECTRICAL CONNECTION. ALL ELECTRICAL BY E.C.	(1) (2)
AD-4,5	AIR DOOR	EXIT	POWERED AIRE FI-AVD	GAS FIRED CENTRIFUGAL UNIT HEATER, TOP INTAKE, 7" LONG, 4218 FPM, 9668 CFM, 200 MBH INPUT EA, 200 MBH OUTPUT EA, 63 DBA, COMES WITH REMOTE ON/OFF, REMOTE HEAT HIGH/LOW, & T-STAT. MOUNT SWITCHES @ 42" A.F.F.	(2) 3/4 HP 569#	569#	PLAN M-1.1	SEE SPECIFICATIONS; SINGLE ELEC. CONN. FOR MOTORS, UNIT HEATER TO BE SEALED COMBUSTION	(1) (2)
AD-6	AIR DOOR	ENTRANCE	POWERED AIRE FI-AVD	GAS FIRED CENTRIFUGAL UNIT HEATER, TOP INTAKE, 10" LONG, 4218 FPM, 9668 CFM, 200 MBH INPUT EA, 160 MBH OUTPUT EA, 63 DBA, COMES WITH REMOTE ON/OFF, REMOTE HEAT HIGH/LOW, & T-STAT. MOUNT SWITCHES @ 42" A.F.F.	(3) 3/4 HP 569#	569#	PLAN M-1.1	SEE SPECIFICATIONS; SINGLE ELEC. CONN. FOR MOTORS, UNIT HEATER TO BE SEALED COMBUSTION	(1) (2)

(1) FACTORY INSTALLED DRY CONTACTS (BMS) FOR FAN/HEAT STATUS
(2) PROVIDE WITH INDUSTRIAL MAGNETIC REED SWITCH.

INFRARED HEAT EQUIPMENT SCHEDULE - OWNER SUPPLIED

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
RH-1,2	INFRARED HEATER	CANOPY	DETROIT RADIANT HL3	TWO-STAGE INFRARED TUBE HEATER, 82-125 MBH INPUT, 40" LENGTH ALUMINIZED TUBE W/STANDARD ALUMINUM REFLECTOR, CONTROLLED BY T-STAT. MOUNT EMITTER TUBE @ 12"-6" A.F.F.	120V/1# 1.3 FLA	190#	PLAN M-1.1	T-STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	
RH-4	INFRARED HEATER	MEMBERSHIP DESK	DETROIT RADIANT HL3	TWO STAGE INFRARED TUBE HEATER, 50-75 MBH INPUT, 20" LENGTH ALUMINIZED TUBE, W/STANDARD ALUMINUM AND ONE-SIDE REFLECTORS, CONTROLLED BY T-STAT. MOUNT EMITTER TUBE @ 17" A.F.F.	120V/1# 1.3 FLA	120#	PLAN M-1.1	T-STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	
RH-7,8	INFRARED HEATER	TIRE INSTALL HEATER	DETROIT RADIANT HL3	TWO STAGE INFRARED TUBE HEATER, 52-125 MBH INPUT, 30" LENGTH ALUMINIZED TUBE, W/STANDARD ALUMINUM AND ONE-SIDE REFLECTORS, CONTROLLED BY T-STAT. MOUNT EMITTER TUBE @ 17" A.F.F.	120V/1# 1.3 FLA	160#	PLAN M-1.1	T-STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	
RH-9,10	INFRARED HEATER	TIRE INSTALL HEATER	DETROIT RADIANT HL3	TWO STAGE INFRARED TUBE HEATER, 50-75 MBH INPUT, 20" LENGTH ALUMINIZED TUBE, W/STANDARD ALUMINUM AND ONE-SIDE REFLECTORS, CONTROLLED BY T-STAT. MOUNT EMITTER TUBE @ 17" A.F.F.	120V/1# 1.3 FLA	120#	PLAN M-1.1	T-STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	
RH-11	INFRARED HEATER	RECEIVING	DETROIT RADIANT HL3	TWO-STAGE INFRARED TUBE HEATER, 50-75 MBH INPUT, 20" LENGTH ALUMINIZED TUBE W/STANDARD ALUMINUM AND ONE-SIDE REFLECTORS, CONTROLLED BY T-STAT. MOUNTING HEIGHT PER DETAIL.	120V/1# 1.3 FLA	120#	PLAN M-1.1	T-STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	
RH-12, 13	INFRARED HEATER	RECEIVING	DETROIT RADIANT HL3	TWO-STAGE INFRARED TUBE HEATER, 82-125 MBH INPUT, 40" LENGTH ALUMINIZED TUBE W/STANDARD ALUMINUM AND ONE-SIDE REFLECTORS, CONTROLLED BY T-STAT. MOUNTING HEIGHT PER DETAIL.	120V/1# 1.3 FLA	190#	PLAN M-1.1	T-STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	

GENERAL NOTES:
- M.C. TO PROVIDE CONTROL WIRE AND CONDUIT FOR T-STAT. - T-STAT TO BE MOUNTED @ 78" A.F.F. UNLESS NOTED OTHERWISE.

CEILING FAN SCHEDULE - S.O.I.C./S.I.C.

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
CF-1-4	CEILING FAN	MAIN SALES	SERCO	14" DIAMETER DIRECT DRIVE HIGH VOLUME LOW SPEED CEILING FAN PROVIDED WITH MOUNTING HARDWARE, DC BRUSHLESS MOTOR, VFD ASSEMBLY AND FAN CONTROL STATION.	208V/1# 1 HP	191#	PLAN M-1.1	SEE ARCHITECTURAL PLANS FOR MOUNTING DETAILS. CONTROL SWITCH LOCATED IN OFFICE.	①
CF-5,6	CEILING FAN	TIRE INSTALL	SERCO	10" DIAMETER HIGH VOLUME LOW SPEED CEILING FAN.	208V/1# 1 HP	128#	PLAN M-1.1 PLAN M-2.1	SEE ARCHITECTURAL PLANS FOR MOUNTING DETAILS. CONTROL SWITCH LOCATED ON WALL.	①
CF-7-15	CEILING FAN	POS COOLER	AIRBUS AIR PEAR A-25-SP	DESTRATIFICATION FAN, 547 CFM, ETL LISTED.	120V/1# 0.32 FLA 35 WATTS	9#	PLAN M-1.1	SECURE TO ROOF STRUCTURE PER MFR'S INSTALLATION INSTRUCTION.	③

① (S.I.C.) EQUIPMENT FURNISHED BY M.B.S. ② (S.O.I.C.) ③ (S.I.C.)

KITCHEN HVAC EQUIPMENT SCHEDULE - OWNER SUPPLIED

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
H-1,2	ROTISSERIE OVEN HOOD	ROTISSERIE	CAPTIVEAIRE	MODEL 7830ND, E.T.L. LISTED 3054804-001, 600" MAXIMUM COOKING TEMPERATURE, TYPE I HOOD WITH FILTERS, LIGHTS & TEMPERATURE SENSOR, 18 GA. STAINLESS STEEL CONSTRUCTION.	HOOD:905#/EA PSP:127#/EA TOTAL:2064#	20/M			
H-3	PIZZA OVEN HOOD	FOOD SERVICE	CAPTIVEAIRE	MODEL 6630ND-PSP-B, E.T.L. LISTED 3054804-001/002 TYPE I HOOD WITH FILTERS, LIGHTS & TEMPERATURE SENSOR, 18 GA. STAINLESS STEEL CONSTRUCTION.	HOOD:426#/EA PSP:178#/EA TOTAL:1030#	19/M			
HCC	HOOD CONTROL CABINET	ROTISSERIE/PIZZA HOOD	CAPTIVEAIRE DCV-2111	ETL LISTED WALL MOUNT CONTROL CABINET, INSTALLED BY E.C. LOCATE PER ELECTRICAL DRAWINGS, CONNECTIONS FOR EXHAUST FANS, LIGHTS, ROOM SENSOR, DUCT SENSOR AND USER INTERFACE.	208V/3#	41/M			(2)
HMI	CONTROL MODULE	KEF-5 KEF-12,13	CAPTIVEAIRE HMI	HOOD CONTROL PANEL USER INTERFACE.		PLAN M-2.1 43/M			
HRS	ROOM SENSOR	KEF-5 KEF-12,13	CAPTIVEAIRE ROOM TEMP SENSOR	LOW VOLTAGE TEMP SENSOR MOUNTED IN SINGLE GANG ELECTRICAL BOX.		PLAN M-2.1 43/M			
KEF-5	HOOD EXHAUST FAN	PIZZA HOOD	CAPTIVEAIRE DU180HFA	3000 CFM @ 1.39" ESP, UL 762 LISTED, UP-BLAST, DIRECT DRIVE CENTRIFUGAL FAN, PROVIDE WITH GREASE BOX AND HINGE KIT, CONTROLLED BY HOOD MANAGEMENT SYSTEM.	3 HP 208V/3#	FAN:185# CURB:35# DUCT:99.5# TOTAL:1213#	16/M	INTER-LOCK WITH AC-3 O/A INTAKE & CONTROL MODULE. 24" SQ. ROOF OPENING 24" MINIMUM CURB HEIGHT	(1)
KEF-8,9,10	KITCHEN EXHAUST FAN	BAKERY OVENS	CAPTIVEAIRE DUS0HFA	1000 CFM @ 0.60" SP, PROVIDE WITH FLOATING HINGE AND GREASE BOX, CONTROLLED BY OVENS, PROVIDED BY E.C. UL 762 LISTED.	1/2HP 120V/1#	82#	16/M	16" SQ. ROOF OPENING	(1)
KEF-11	CURB			ROOF CURB WITH SEALED CAP FOR FUTURE EXHAUST FAN INSTALL. CURB CONSTRUCTION TO MATCH KEF-8,9.			16/M	16" SQ. ROOF OPENING	(1)
KEF-12,13	HOOD EXHAUST FAN	ROTISSERIE	CAPTIVEAIRE DU180HFA	2805 CFM @ 1.20" ESP, UL 762 LISTED, UP-BLAST, DIRECT DRIVE CENTRIFUGAL FAN, PROVIDE WITH GREASE BOX AND HINGE KIT, CONTROLLED BY HOOD MANAGEMENT SYSTEM.	3 HP 208V/3#	FAN:185# CURB:35# DUCT:872# TOTAL:892#	16/M	24" SQ. ROOF OPENING 24" MINIMUM CURB HEIGHT INTERLOCK W/ROTISSERIE OVEN GAS SOLENOID VALVE.	(1)
KTF-14, 15	KITCHEN TRANSFER FAN	BAKERY	CAPTIVEAIRE SIF13DD	1500 CFM @ 0.25" SP, IN-LINE TRANSFER FAN SUSPENDED FROM ROOF TRUSSES, INTERLOCK WITH LIGHTS BY E.C.	3/4HP 120V/1# 20MCOOP	130#	24/M		(3)
KEF-22	KITCHEN EXHAUST FAN	PAN WASHER	CAPTIVEAIRE DUS0HFA	1050 CFM @ 0.38" SP, INTERLOCK WITH LIGHTS BY E.C.	1/2HP 120V/1#	76#	16/M	16" SQ. ROOF OPENING	(1) (4)

GENERAL NOTES: (APPLIES TO ENTIRE SCHEDULE AS APPLICABLE)
1. ALL SWITCHES AND T-STATS MOUNTED AT 42" AFF UNLESS OTHERWISE NOTED. SEE DESCRIPTION FOR RESPONSIBLE CONTRACTOR.
2. FIRE SUPPRESSION SYSTEM S.O.I.C. G.C. TO CONTACT APPROVED SUB-CONTRACTORS FOR FIRE SUPPRESSION SYSTEM INSTALLATION.
3. FIRE SUPPRESSION SYSTEM FACTORY INTERLOCKED WITH CAPTIVEAIRE CONTROL CABINET. G.C. TO COORDINATE INSTALLATION OF ALL EQUIPMENT AND FINAL CONNECTIONS.
SCHEDULE NOTES: (SEE COLUMN ON RIGHT FOR APPLICABILITY)
(1) ROOF CURB FOR METAL ROOF PROVIDED BY M.B.S.
(2) M.C. TO UNDRATE H.I.C. AND PROVIDE TO E.C. FOR MOUNTING AND LINE VOLTAGE CONNECTIONS. ALL LOW VOLTAGE CONNECTIONS BY M.C.
(3) ADJUST FAN SPEED TO MAX AND RECORD AIR VOLUME IN AIR SCHEDULE.
(4) PROVIDE BACKDRAFT DAMPER.

AIR TERMINAL SCHEDULE - S.I.C.

SYMBOL	MANUFACTURER	SERVICE	MODEL	PATTERN	DAMPER NECK	FRAME	LOCATION *
CD	TUTTLE & BAILEY SUPPLY	S00		BLADE		LAYIN	OFFICES, OPTICAL
CDP**	CAPTIVEAIRE SUPPLY	DI-PSP		2051% PERFORATED		LAYIN	FOOD SERVICE, ENCLOSED ROTISS/BAKERY
RG	TUTTLE & BAILEY RETURN	PR		PERFORATED		LAYIN	OFFICES, OPTICAL
EG-1	TUTTLE & BAILEY EXHAUST	CRE500		EGG CRATE		FLANGE	RESTROOMS, JANITOR ROOM
EG-2	TUTTLE & BAILEY EXHAUST	A700		FIXED BLADE		LAYIN	DEMO ROOM, EDP
EG-3	TUTTLE & BAILEY EXHAUST	CT100FB-SS		45" FIXED BLADE		FLANGE	DELI, MEAT, BAKERY (MIP), FOOD SERVICE (MIP)
RGFP**	TUTTLE & BAILEY RETURN	CT100FB-SS		45" FIXED BLADE		LAYIN	BAKERY (I-BAR), FOOD SERVICE (I-BAR)
DC	---	DOOR GRILLE	PROVIDED BY GC			LAYIN	RESTROOMS, JANITOR ROOM, DEMO ROOM
CDP	TUTTLE & BAILEY SUPPLY	PP		PERFORATED	FIRE / OBD	LAYIN	VAULT
RGF	TUTTLE & BAILEY SUPPLY	PR		PERFORATED	FIRE / OBD	LAYIN	VAULT
CDH	TUTTLE & BAILEY SUPPLY	S00		BLADE		FLANGE	HEARING CENTER
ND	TUTTLE & BAILEY SUPPLY	DJ-DM-SP-SA		NOZZLE DIFFUSER	WITH DAMPER	FLANGE	TIRE INSTALL
RGH	TUTTLE & BAILEY RETURN	PR		PERFORATED		FLANGE	HEARING CENTER
WSG	TUTTLE & BAILEY SUPPLY	T54		FIXED BLADE		FLANGE	
WRG	TUTTLE & BAILEY RETURN	A700		FIXED BLADE		FLANGE	

* VERIFY NUMBER OF DIFFUSERS AND ALL LOCATIONS ON PLANS - DIFFUSER IS NOT REQUIRED IF NOT ON PLANS
** DIFFUSER TO HAVE BRUSHED STAINLESS STEEL FACE. DO NOT PROVIDE WITH FILTER.

CAPTIVEAIRE
MODEL 7830ND 18" X 78" X 30" TYPE I WITH FILTERS & LIGHTS HOOD-18GA. STAINLESS STEEL

NOTE: OBTAIN APPROVAL FROM ARCHITECT FOR ANY OFFSETS REQUIRED IN DUCTWORK PRIOR TO ORDERING.

CFM
AIR FLOW FORMULA (PER UL LISTING):
Q = 180xL = 180(15.6FT) = 2805 CFM MIN.

DUCTS
DUCT SIZE: 18" = 1.77 SQUARE FEET
NUMBER OF DUCTS: 1

STATIC PRESSURE & EXHAUST FAN
EXHAUST FAN CFM: 2805 CFM
EXHAUST DUCT VELOCITY: 1585 FPM
STATIC PRESSURE:
DUCT: 0.12"
HOOD RISER: 0.87"
GREASE FILTER: 0.18"
20% SF: 0.23"
TOTAL S.P.: 1.40"

MAKE-UP AIR
SUPPLIED FROM MAU-1 & MAIN SALES AC UNITS.

CLEARANCES (PER NFPA 96)
HOOD OVERHANG BEYOND EQUIPMENT:
CLEARANCE:
FRONT 6"
SIDES 6"

DISTANCE FROM OUTSIDE EDGE OF HOOD TO SURROUNDING MATERIALS:

MATERIAL	CLEARANCE
FRONT NON-COMBUSTIBLE	0"
FRONT LIMITED COMBUSTIBLE	0"
BACK LIMITED COMBUSTIBLE	3"
TOP NON-COMBUSTIBLE	0"

DISTANCE FROM GREASE DUCT AND ROOF PENETRATION TO SURROUNDING MATERIALS:

MATERIAL	CLEARANCE
NON-COMBUSTIBLE	0"
COMBUSTIBLE	3/4"

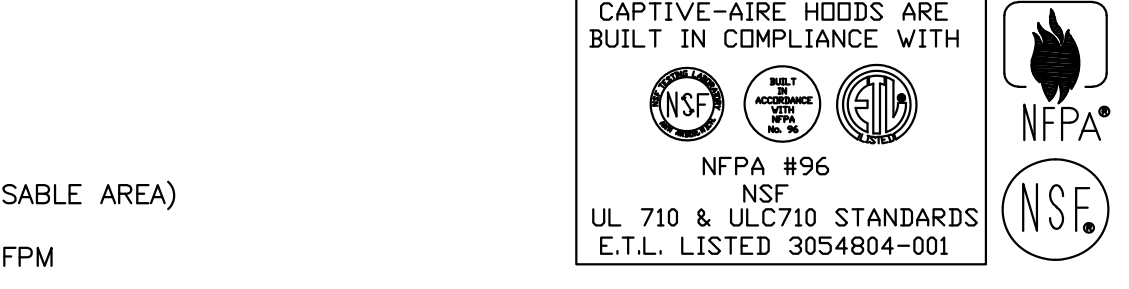
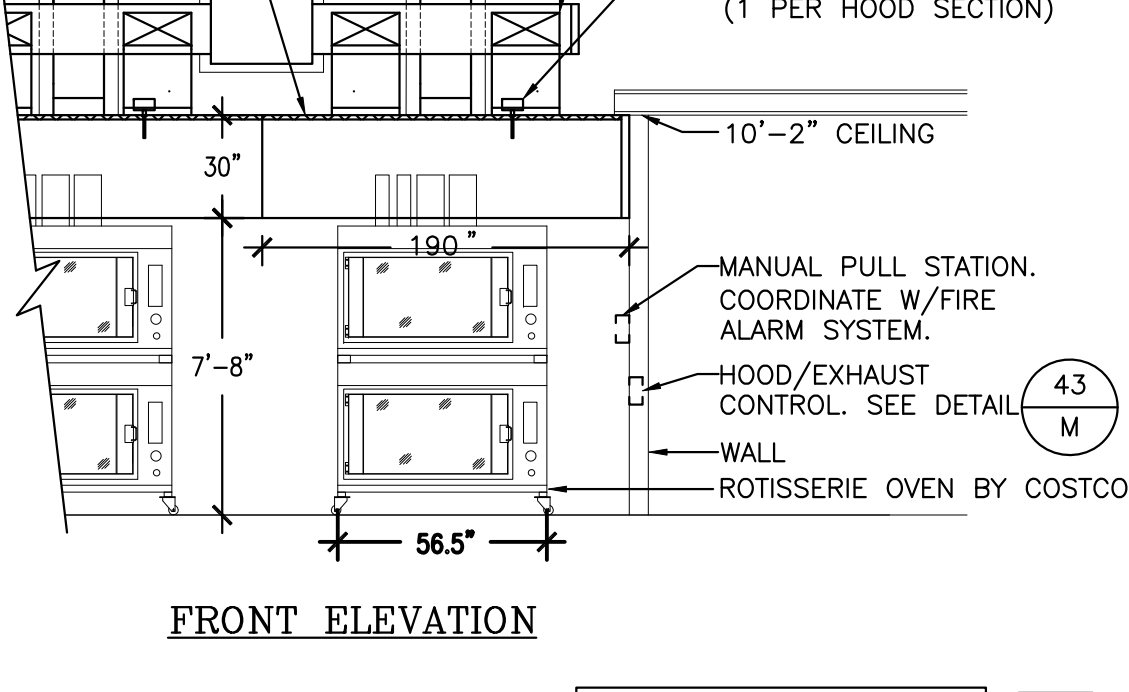
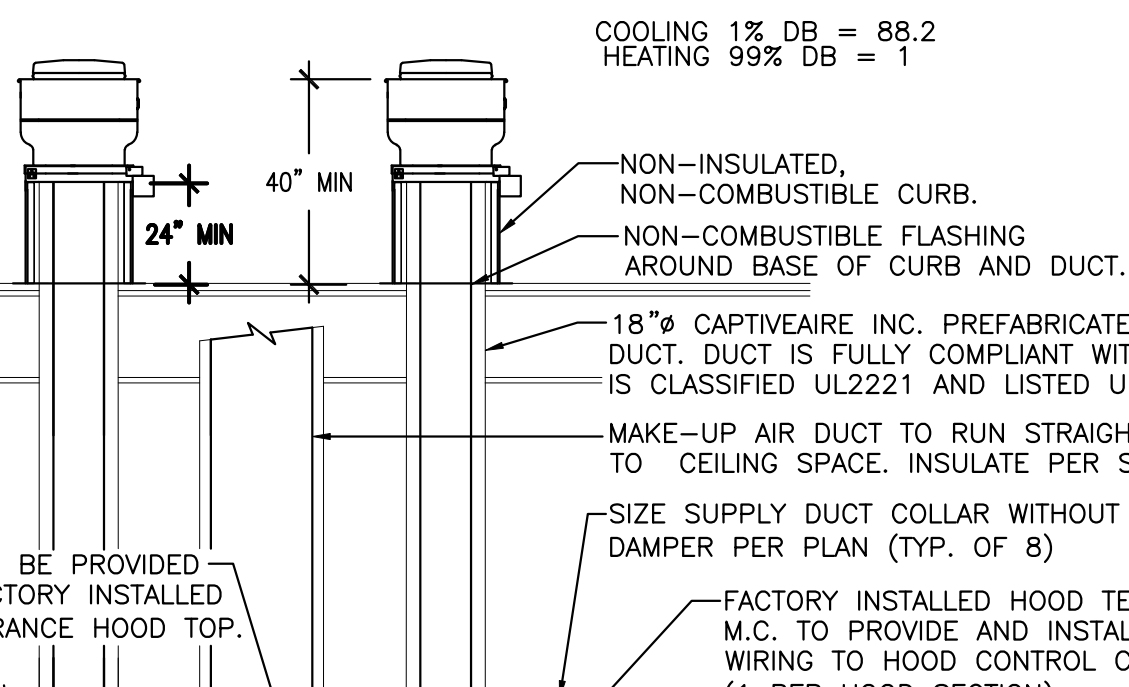
FILTERS
FILTER SIZE: 20"X16"=1.73 SQ. FT.(USABLE AREA)
NUMBER OF FILTERS: 11
TOTAL FILTER AREA: 11 X 1.73 = 19.03 SQ. FT.(USABLE AREA)
AIR VELOCITY: 2805 CFM / 19.03SQ. FT. = 147 FPM

NOTES:
• ALL REQUIRED OFFSETS FOR FLUE AND EXHAUST DUCTS BETWEEN OVEN AND ROOF PENETRATION TO BE MADE ABOVE FINISHED CEILING.
• HOOD SHALL BE INSTALLED COMPLETE WITH FIRE SUPPRESSION SYSTEM AND SOLENOID VALVE AT FUEL LINE OR ELECTRICAL POWER SUPPLY OF EQUIPMENT. AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BE INTERCONNECTED TO THE FUEL OR POWER SOURCE OR ARRANGED TO AUTOMATICALLY SHUT OFF EQUIPMENT UNDER THE HOOD WHEN THE SYSTEM IS ACTIVATED. SHUTOFF VALVES OR SWITCHES SHALL BE OF A TYPE THAT REQUIRES MANUAL OPERATION TO RESET. FIRE SUPPRESSION SYSTEM, INSTALLED BY G.C., SHALL BE CAPABLE OF SENDING AN ALARM SIGNAL TO THE MONITORING SERVICE WHEN ACTIVATED. ALL SOLENOID VALVES, FUEL SHUTOFFS & EQUIPMENT INTERLOCKS AND SWITCHES SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. FIRE SUPPRESSION SYSTEM SHALL NOT RUN HORIZONTALLY WITHIN EXPOSED HOOD CAPTURE CAVITY. ALL FIRE SUPPRESSION SYSTEM CONNECTIONS AND ASSOCIATED WIRING (SHUNT TRIP BREAKERS OR RELAYS) ARE THE RESPONSIBILITY OF MECHANICAL CONTRACTOR.

15"-7" Rotisserie Oven Hood & Exhaust Fan Detail

SCALE: NONE REV: SI/02-25/Master

ETL LISTING - # 3054804-001



CLEARANCES
HOOD OVERHANG BEYOND EQUIPMENT:
CLEARANCE:
FRONT 6"
SIDES 6"

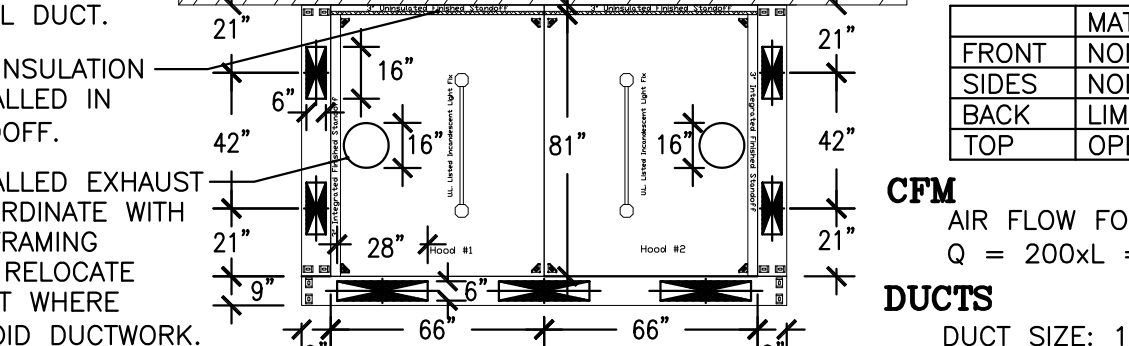
DISTANCE FROM OUTSIDE EDGE OF HOOD TO SURROUNDING MATERIALS:

MATERIAL	CLEARANCE
FRONT NON-COMBUSTIBLE	0"
FRONT LIMITED COMBUSTIBLE	0"
BACK LIMITED COMBUSTIBLE	3"
TOP NON-COMBUSTIBLE	0"

ETL LISTING - # 3054804-001

MAKE: CAPTIVE AIRE
MODEL: 6630ND-2-PSP-B (2)6'-9" X 5'-3" X 30" TYPE I HOOD-18GA. SS

NOTE: SUPPLY CLEANOUTS AT ELBOWS & EVERY 12' OF HORIZONTAL DUCT.
1" LAYER OF INSULATION FACTORY INSTALLED IN 3" END STANDOFF.

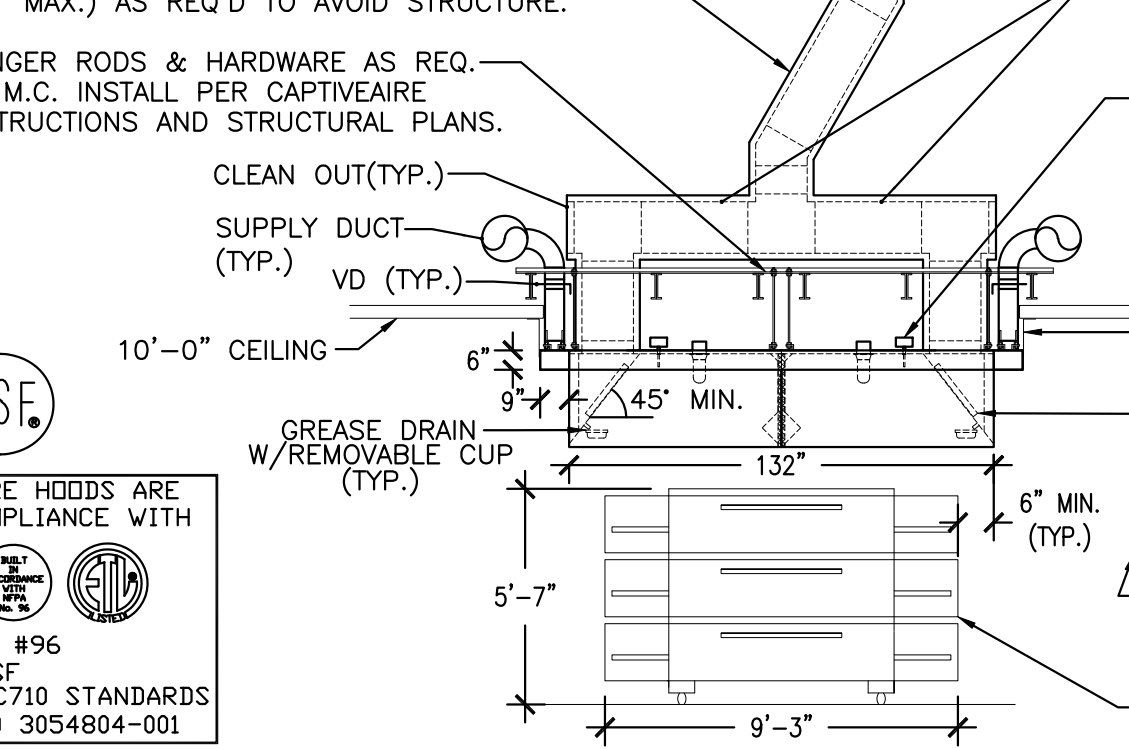


CFM
AIR FLOW FORMULA (PER UL LISTING):
Q = 200xL = 200(6.5 FT) = 1300 CFM MIN.

DUCTS
DUCT SIZE: 16" = 1.40 SQUARE FEET

MAKE-UP AIR
SUPPLIED FROM FOOD SERVICE AC UNIT.

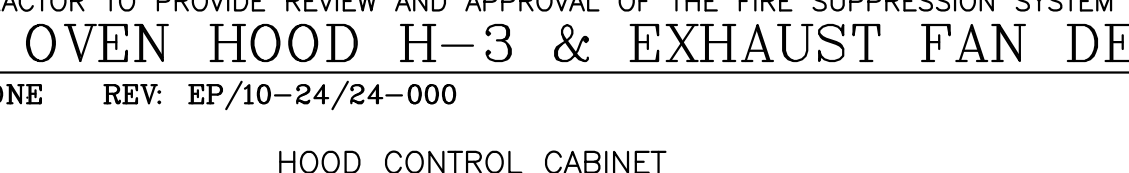
NOTES:
1. MATERIAL: 304 S.S. INNER/ALUMINIZED OUTER/3" INSULATION.
2. ALL ADDITIONAL SUPPLIES BY OTHERS.
3. FAN CURBS ARE 27 INCHES TALL ABOVE ROOF JOISTS.



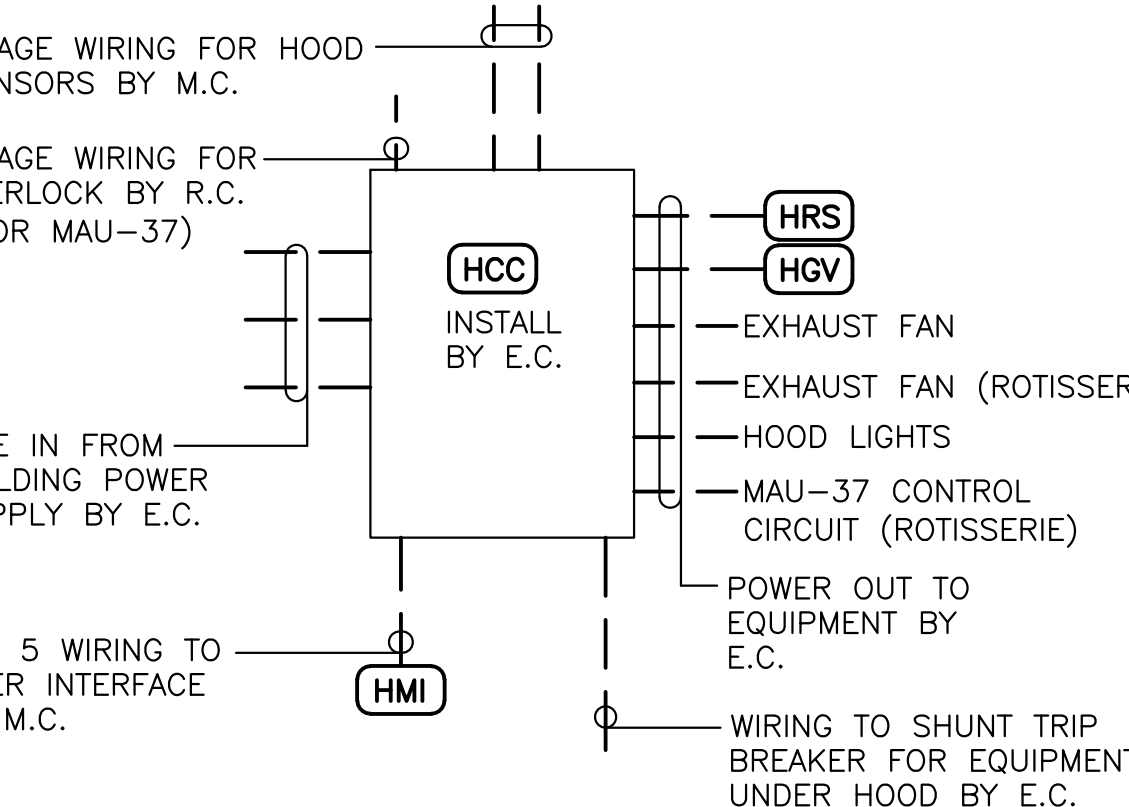
NOTES:
• HOOD SHALL BE INSTALLED COMPLETE WITH FIRE SUPPRESSION SYSTEM AND SOLENOID VALVE AT FUEL LINE OR ELECTRICAL POWER SUPPLY OF EQUIPMENT. AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BE INTERCONNECTED TO THE FUEL SOURCE & ARRANGED TO AUTOMATICALLY SHUT OFF EQUIPMENT UNDER THE HOOD AND ANY MAKE UP AIR WHEN THE SYSTEM IS ACTIVATED. SHUTOFF VALVES OR SWITCHES SHALL BE OF A TYPE THAT REQUIRES MANUAL OPERATION TO RESET. FIRE SUPPRESSION SYSTEM, INSTALLED BY G.C., SHALL BE CAPABLE OF SENDING AN ALARM SIGNAL TO THE MONITORING SERVICE WHEN ACTIVATED. ALL SOLENOID VALVES, FUEL SHUTOFFS & EQUIPMENT INTERLOCKS AND SWITCHES SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. FIRE SUPPRESSION SYSTEM SHALL NOT RUN HORIZONTALLY WITHIN EXPOSED HOOD CAPTURE CAVITY. G.C. TO CONTACT APPROVED SUBCONTRACTORS FOR FIRE SUPPRESSION SYSTEM INSTALLATION. FIRE CONTRACTOR TO PROVIDE REVIEW AND APPROVAL OF THE FIRE SUPPRESSION SYSTEM BY THE FIRE DEPARTMENT.

PIZZA OVEN HOOD H-3 & EXHAUST FAN DETAIL

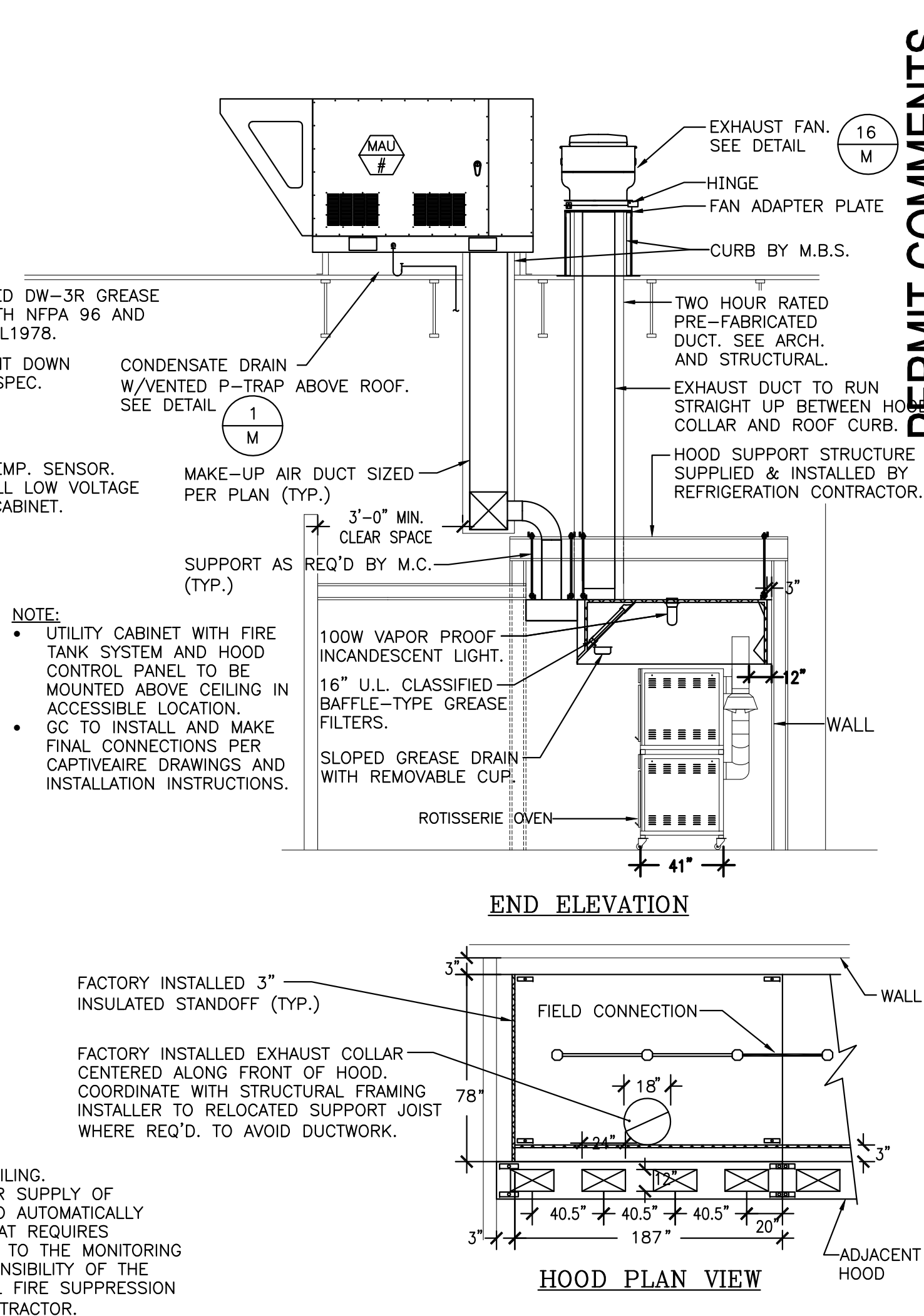
SCALE: NONE REV: EP/10-24/24-000



LOW VOLTAGE WIRING FOR HOOD TEMP. SENSORS BY M.C.
LOW VOLTAGE WIRING FOR HVAC INTERLOCK BY R.C. (CAT 5 FOR MAU-37)



HOOD CONTROL SYSTEM SCHEMATIC
SCALE: NONE REV: SI/11-25/Master

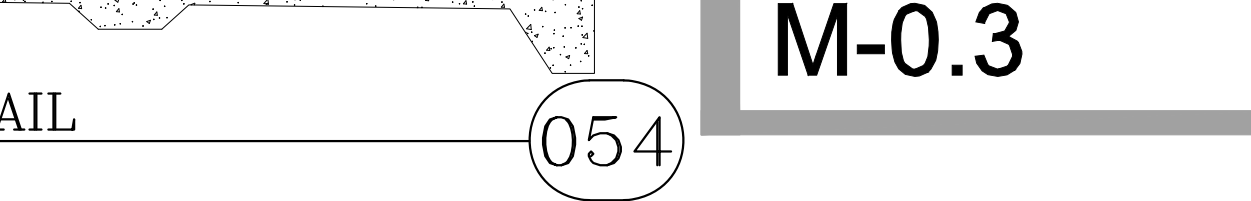
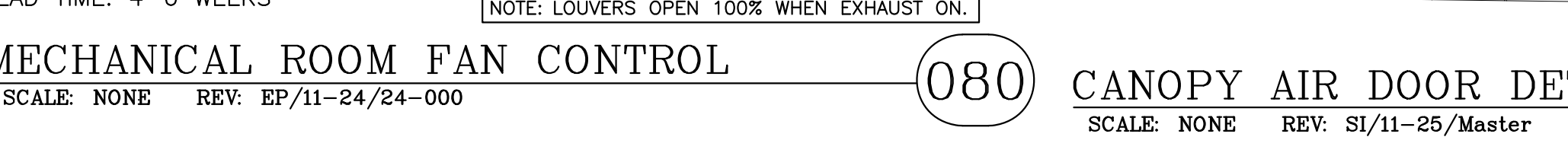
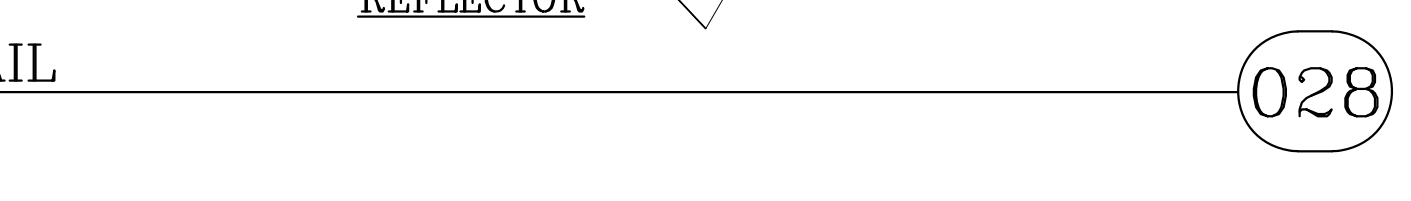
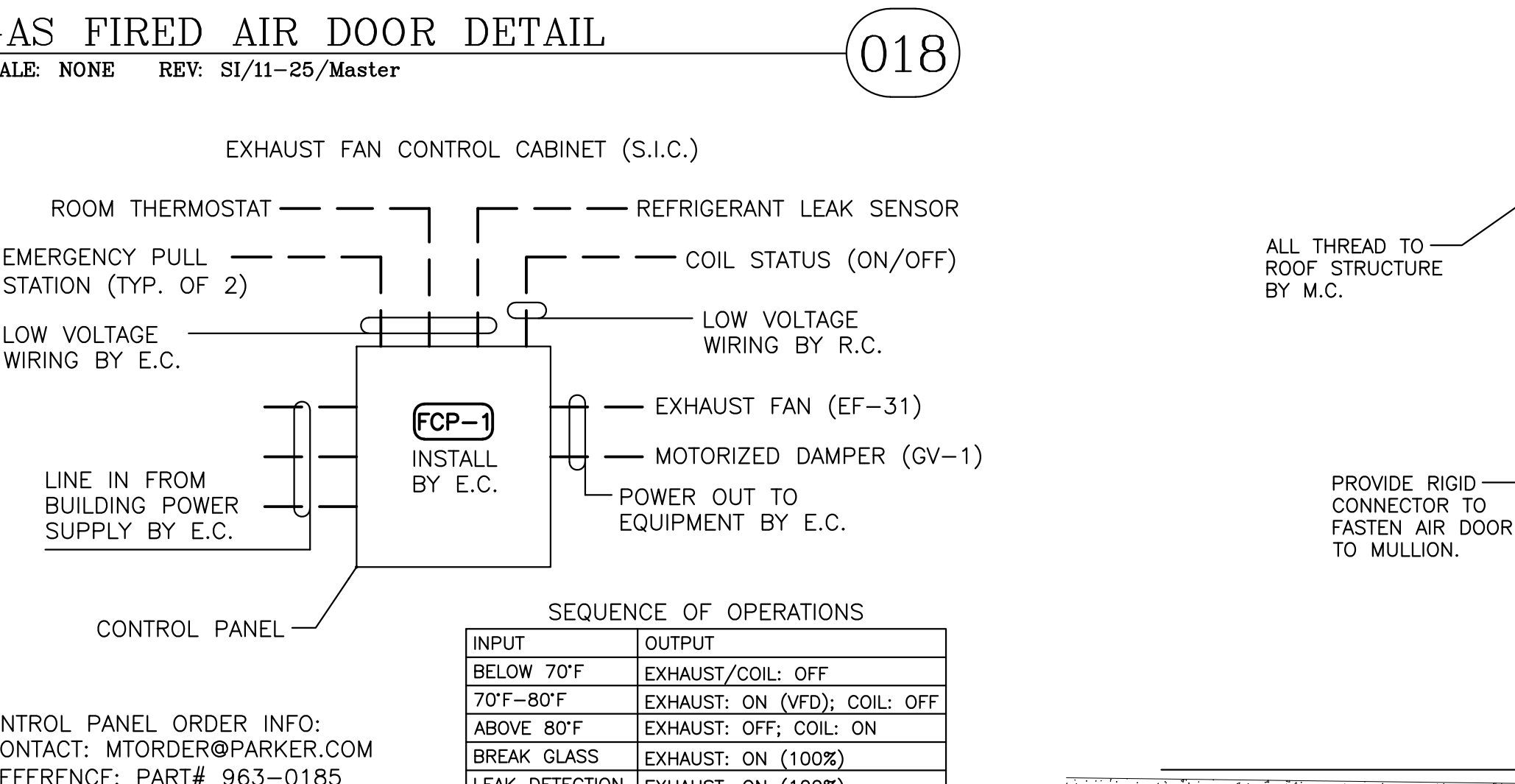
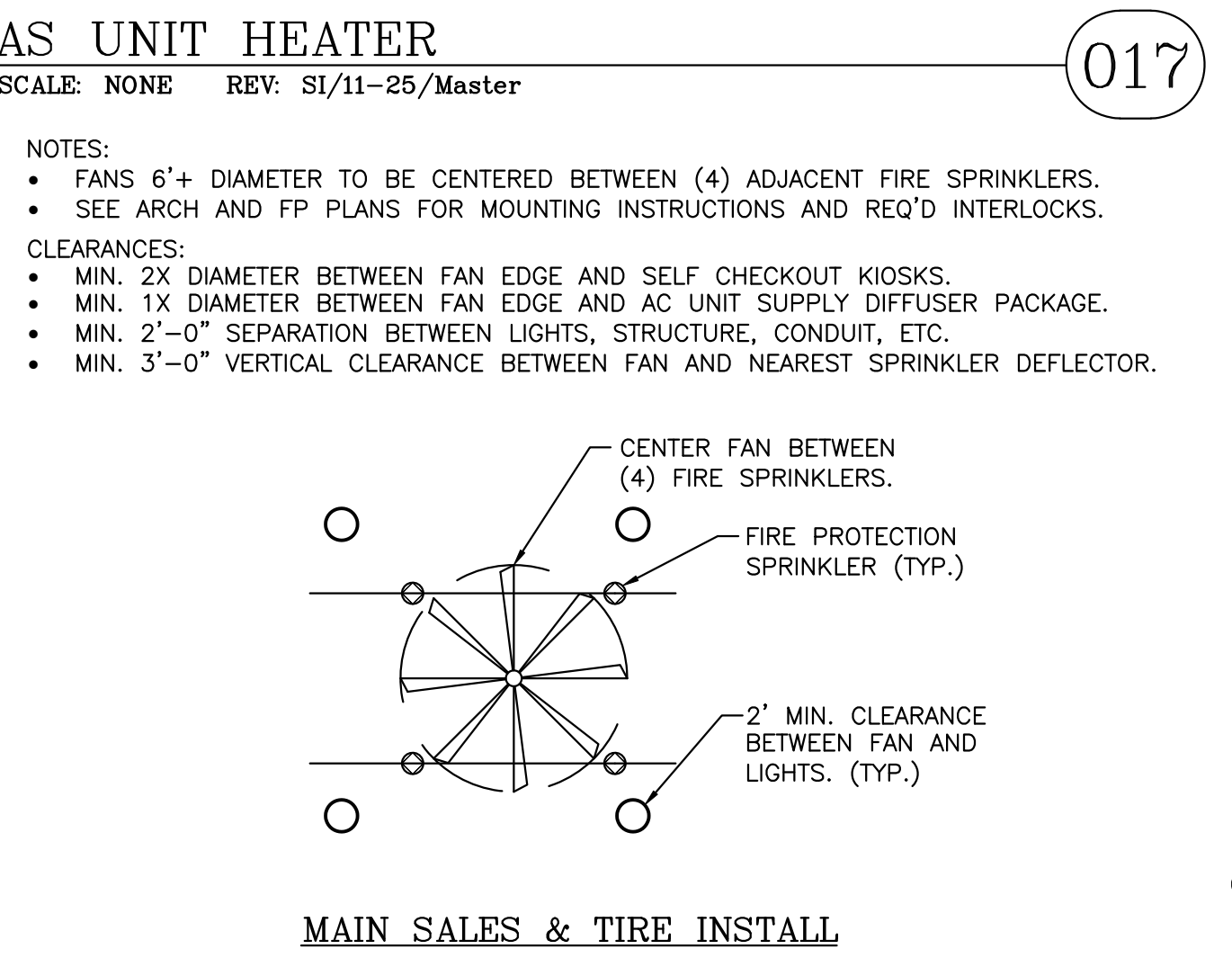
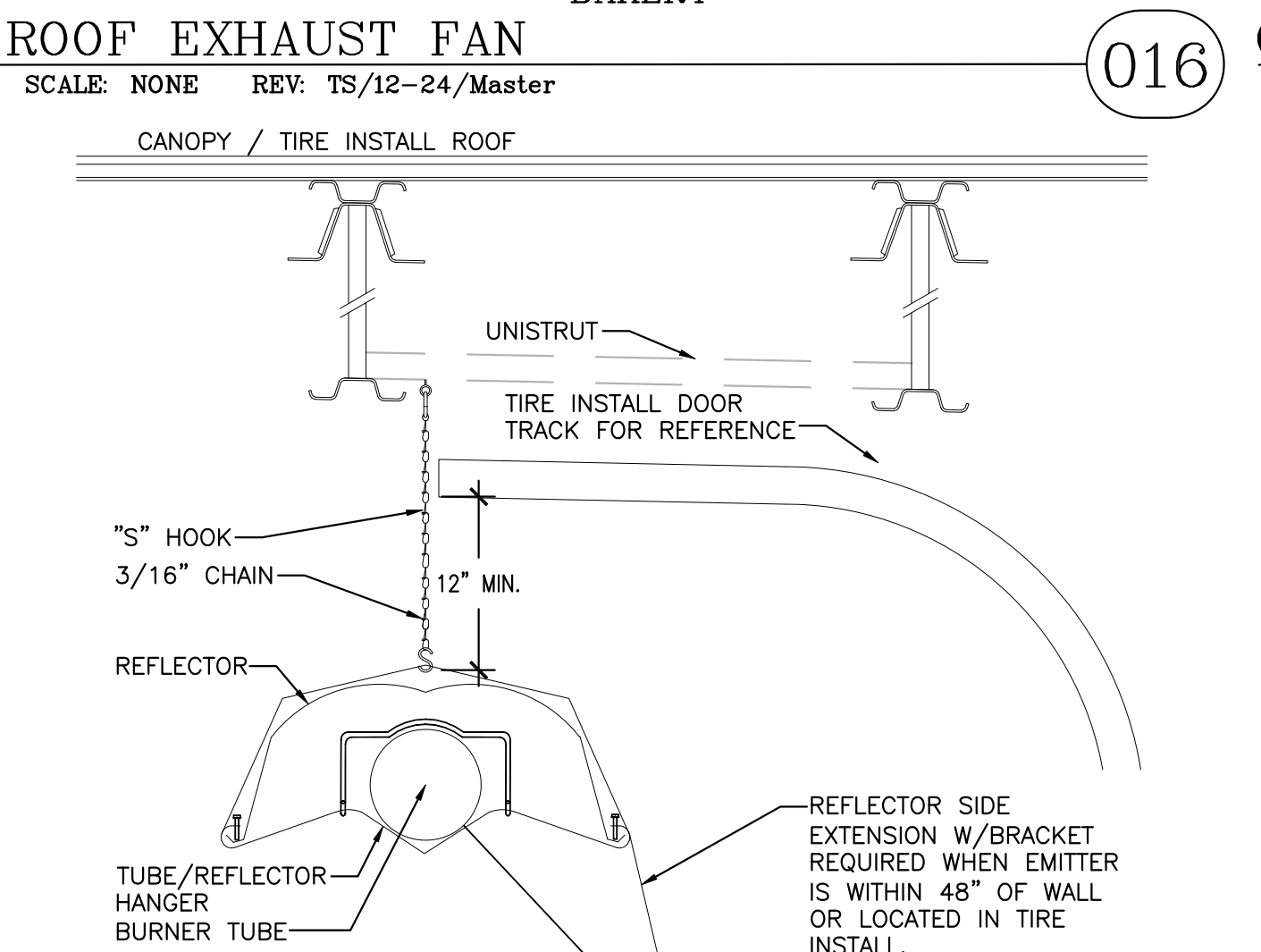
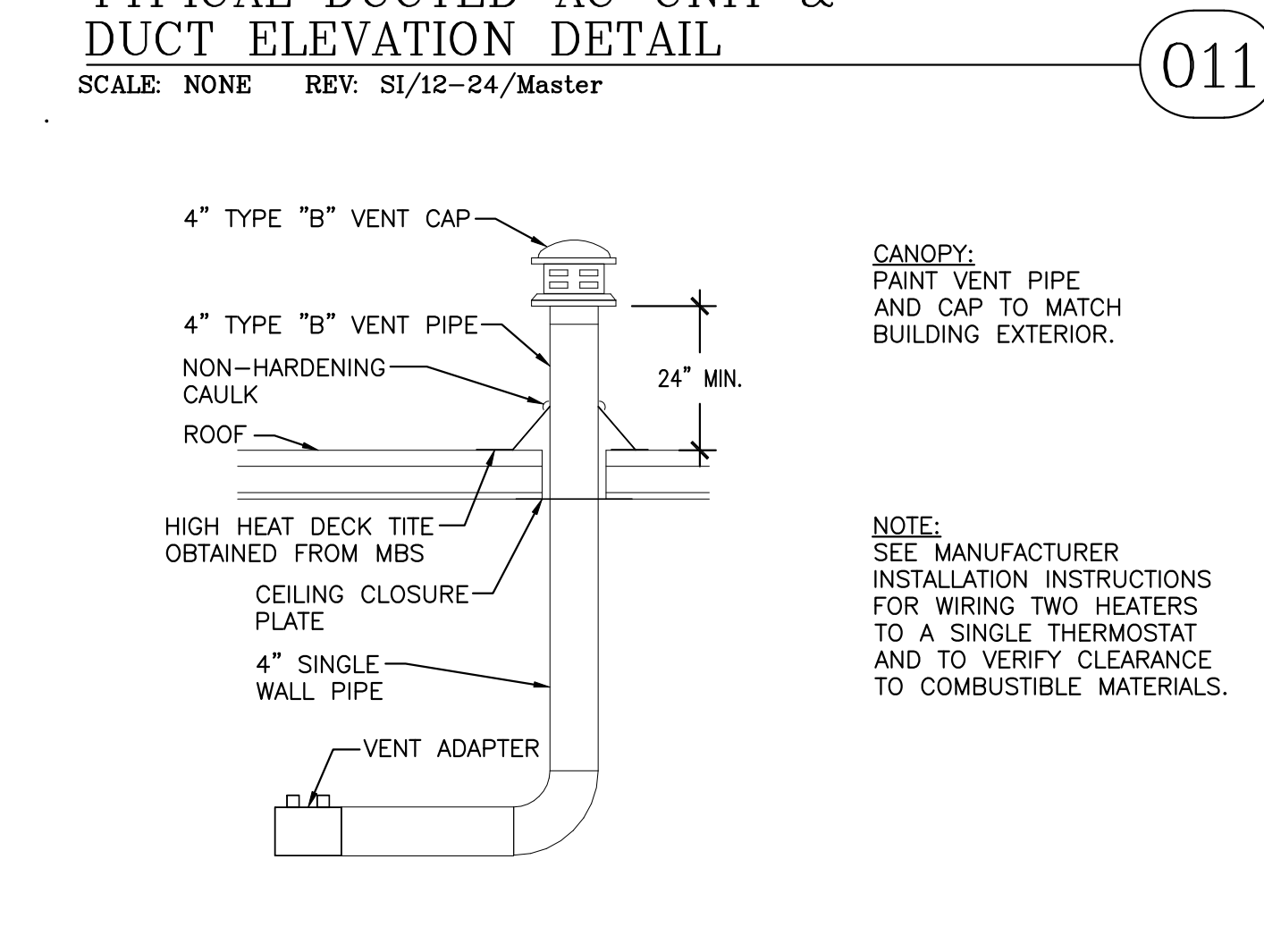
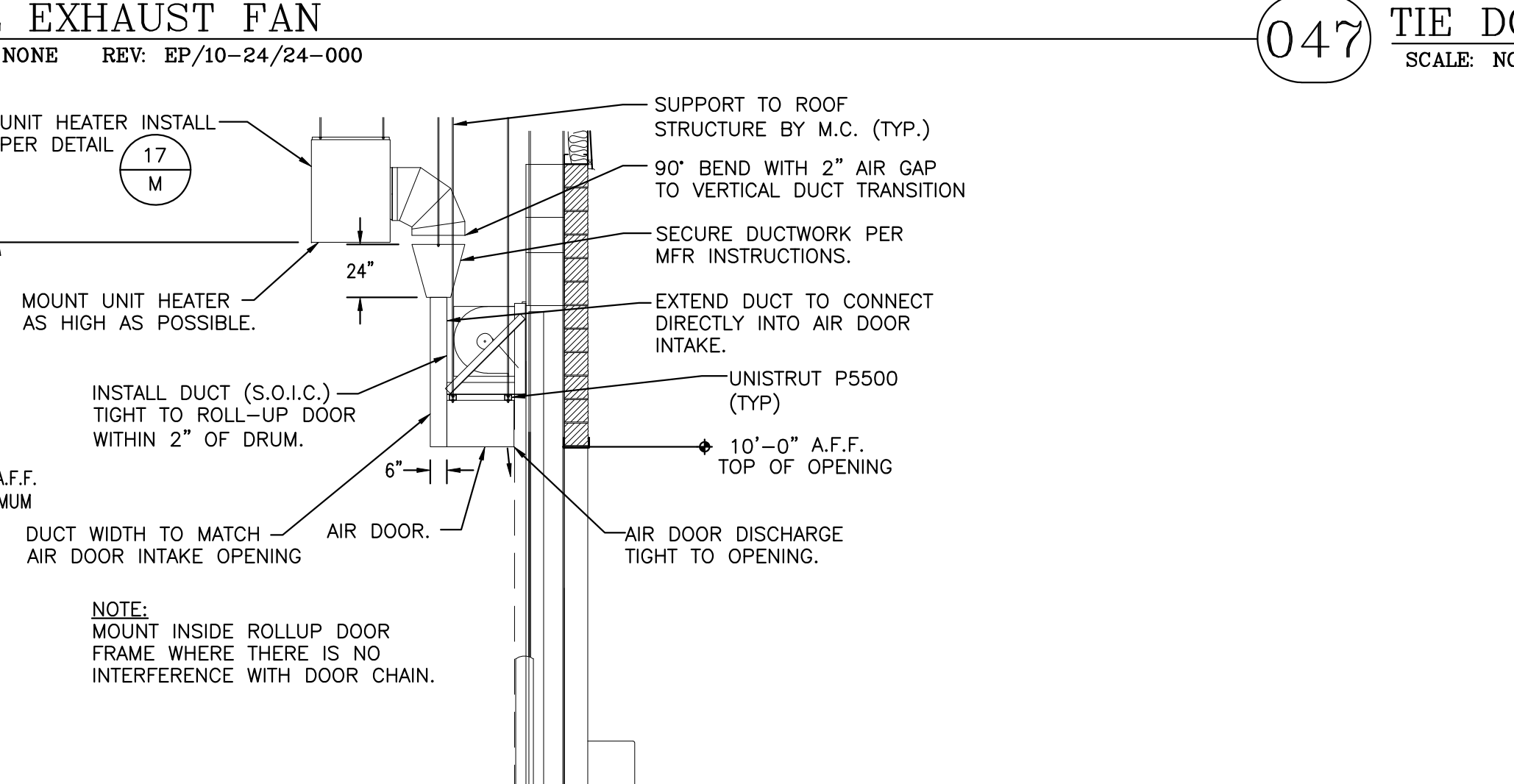
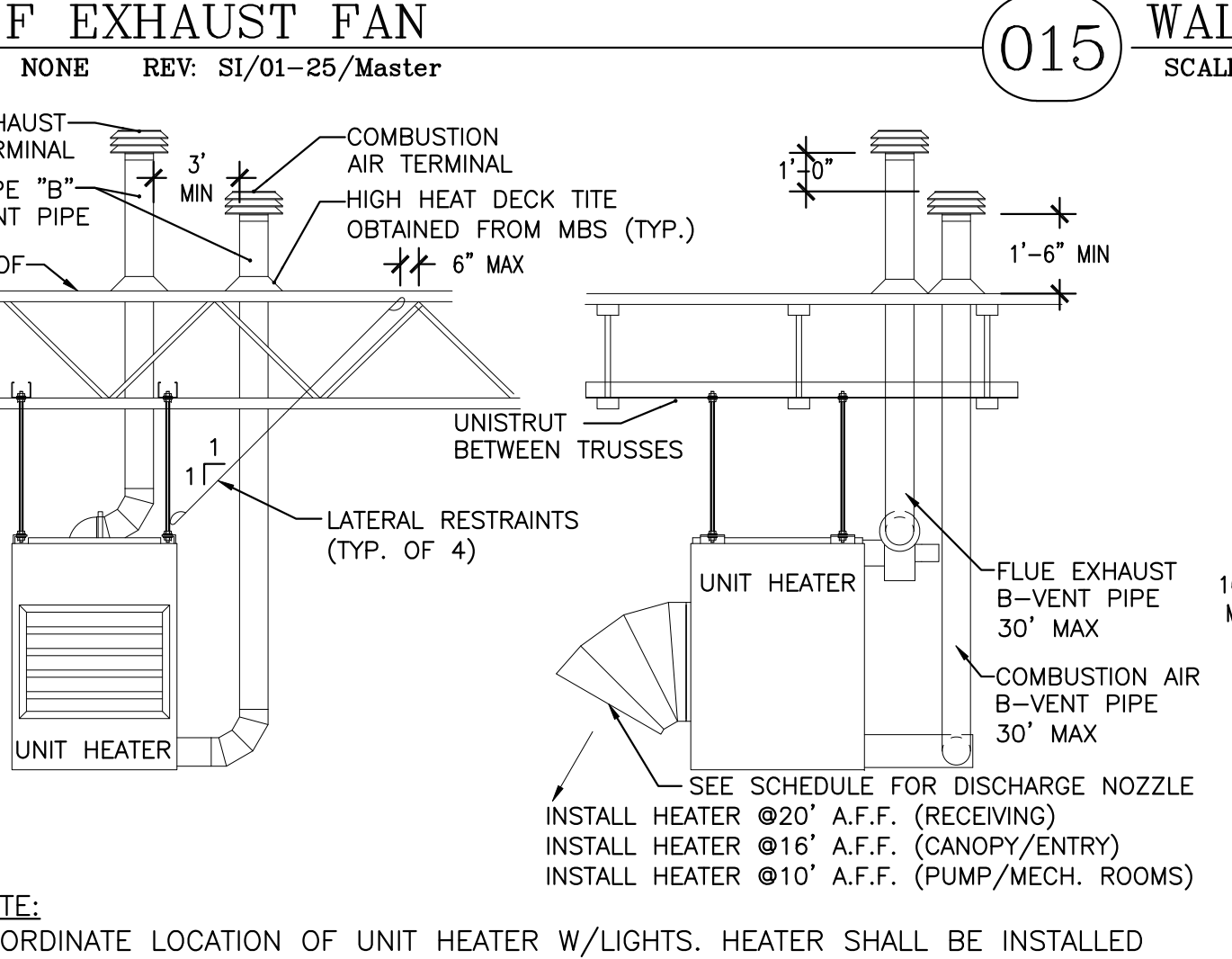
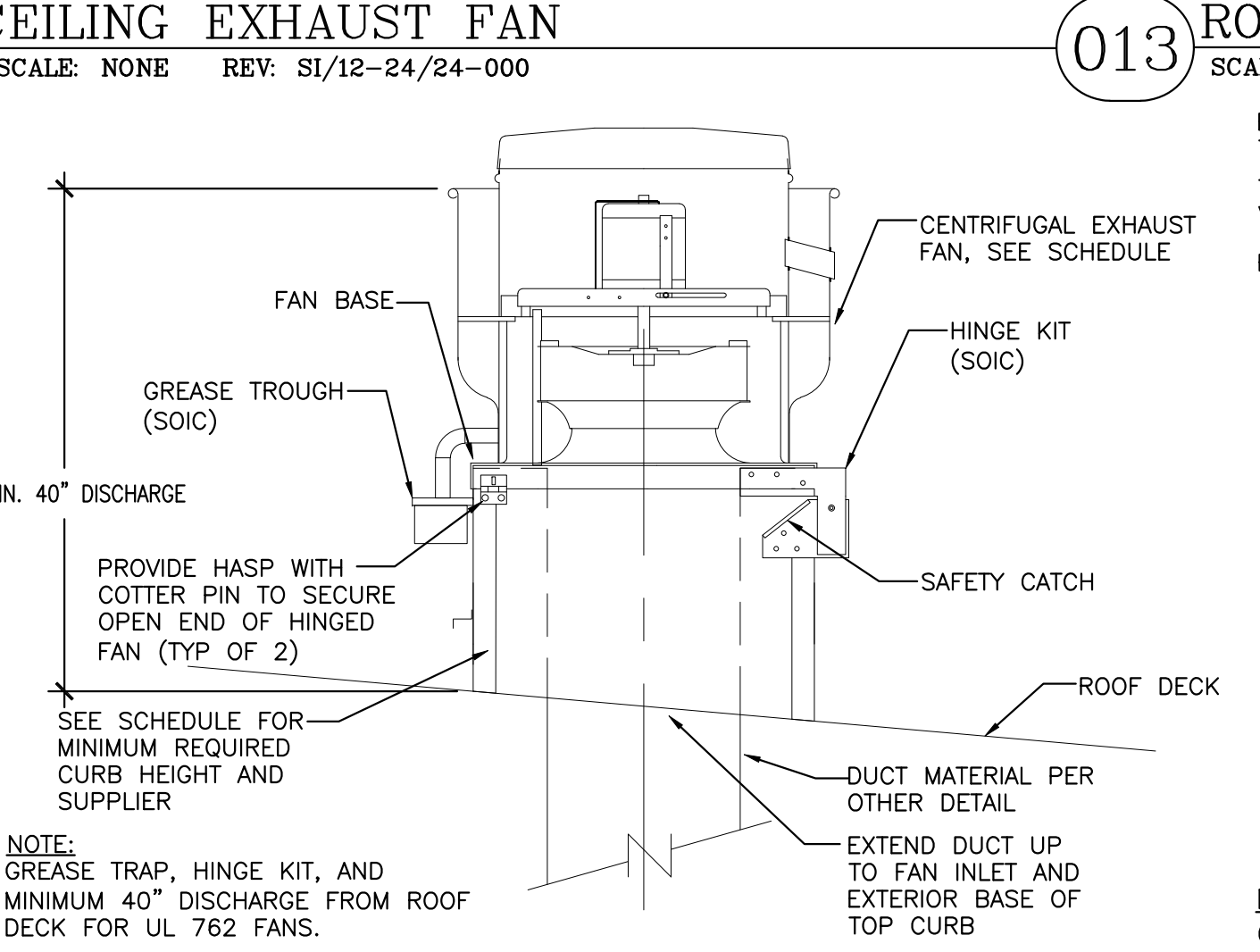
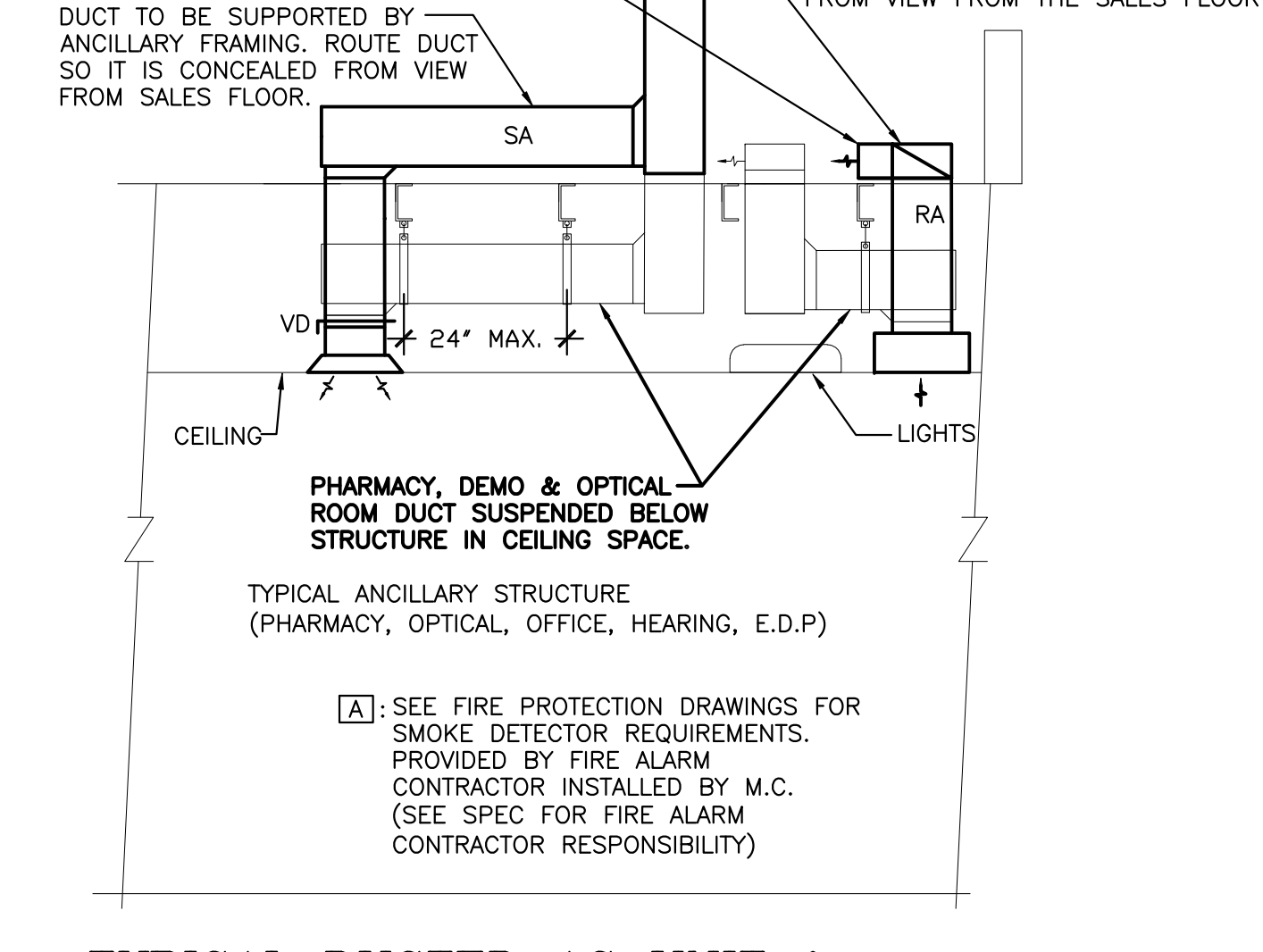
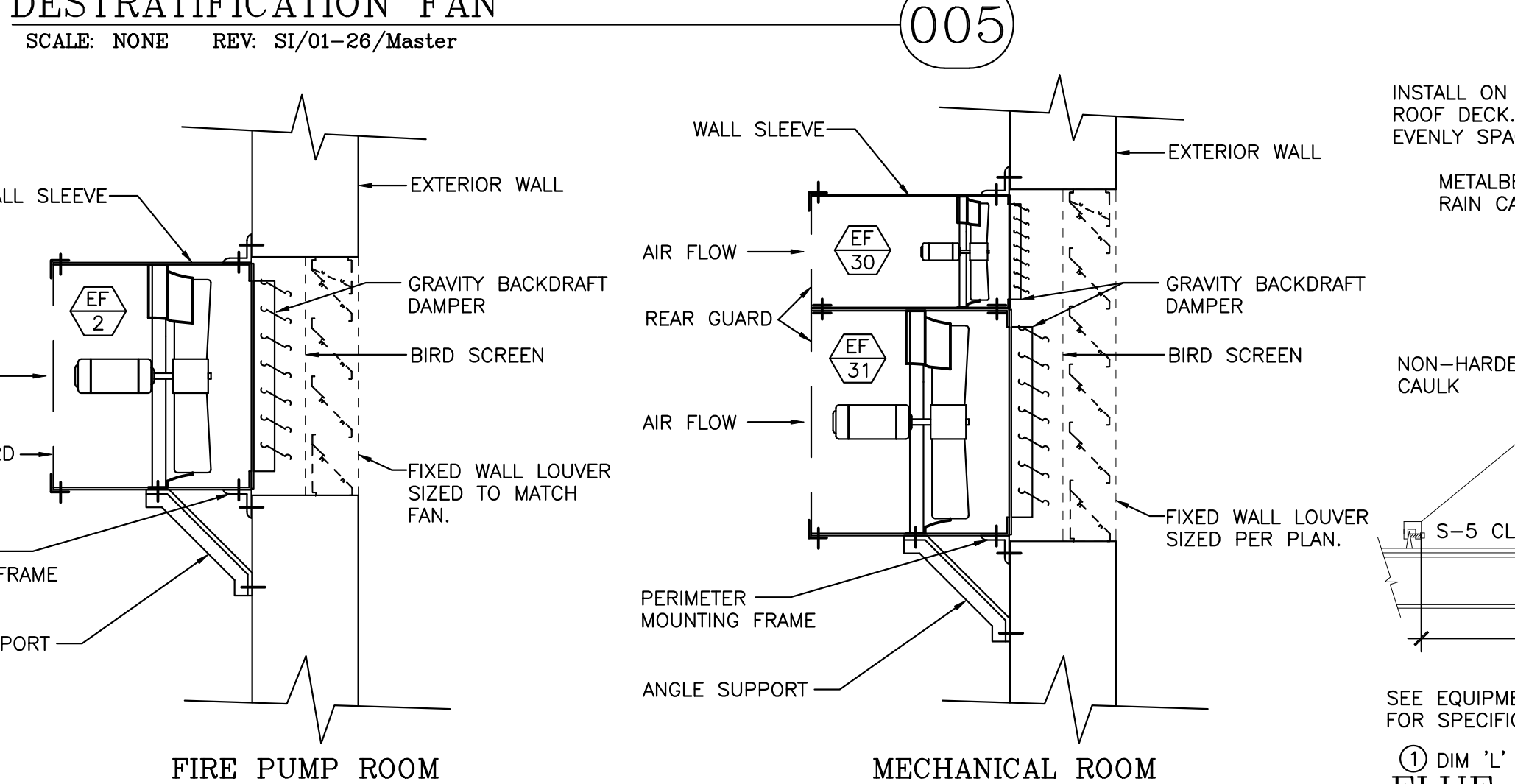
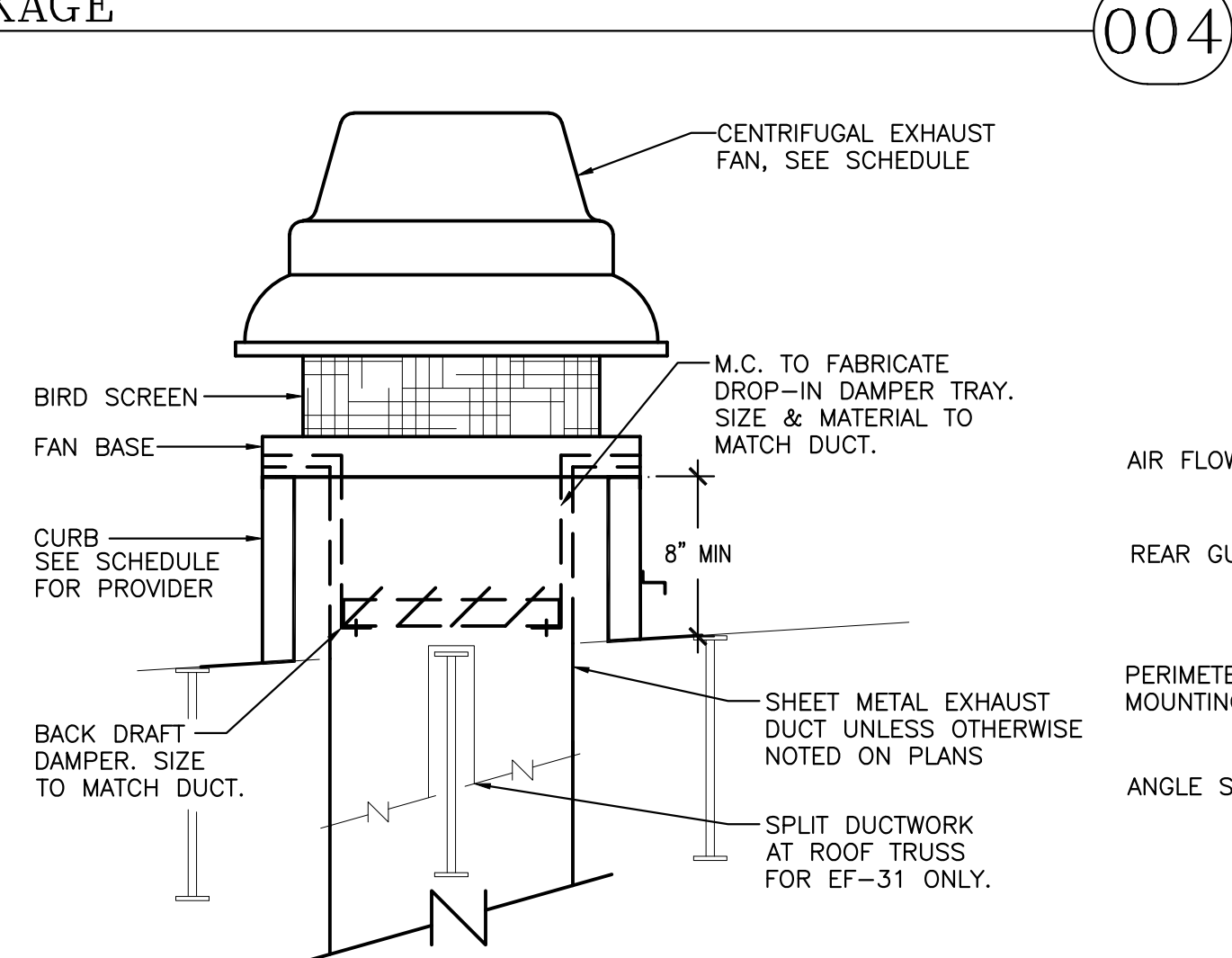
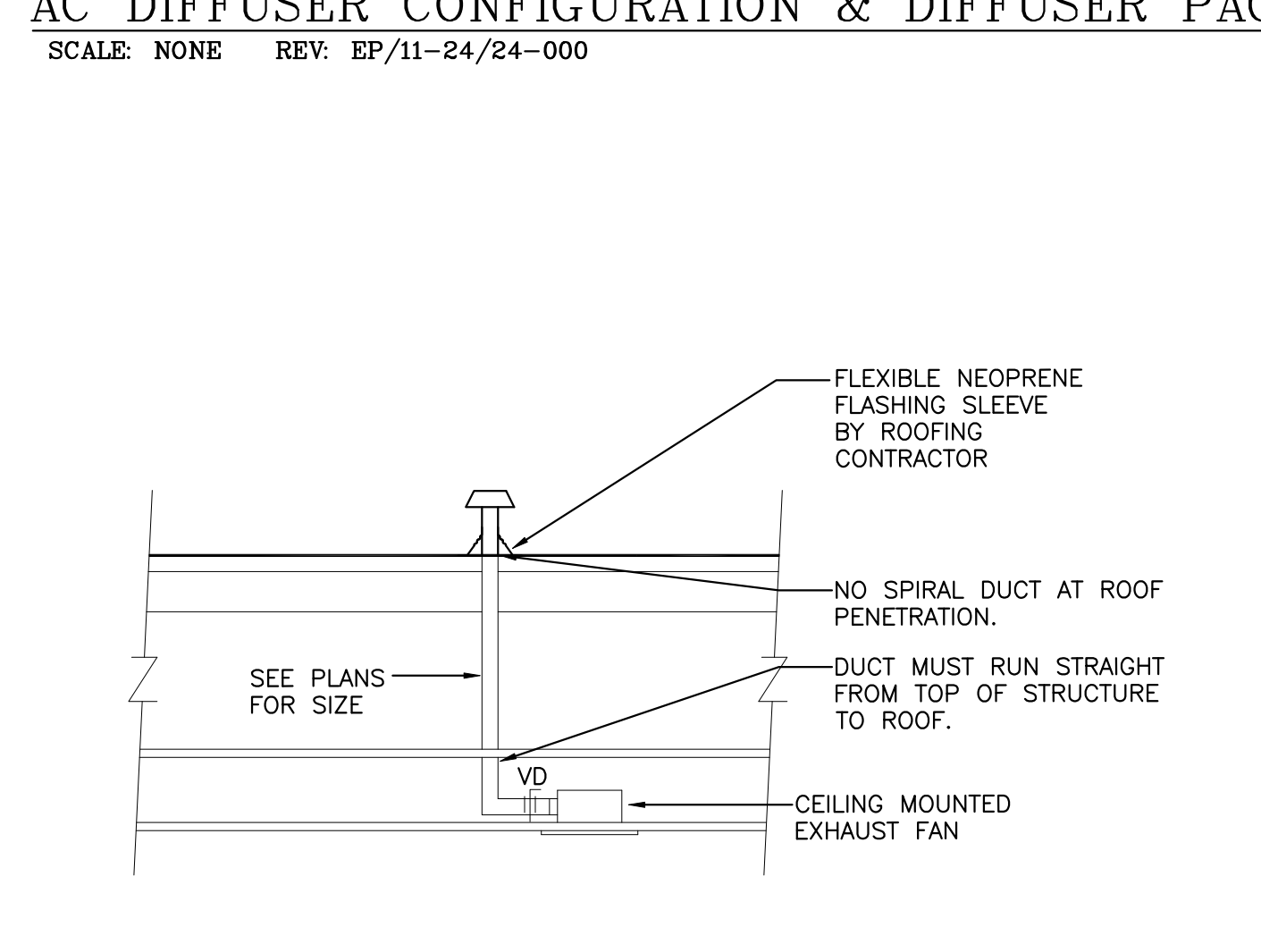
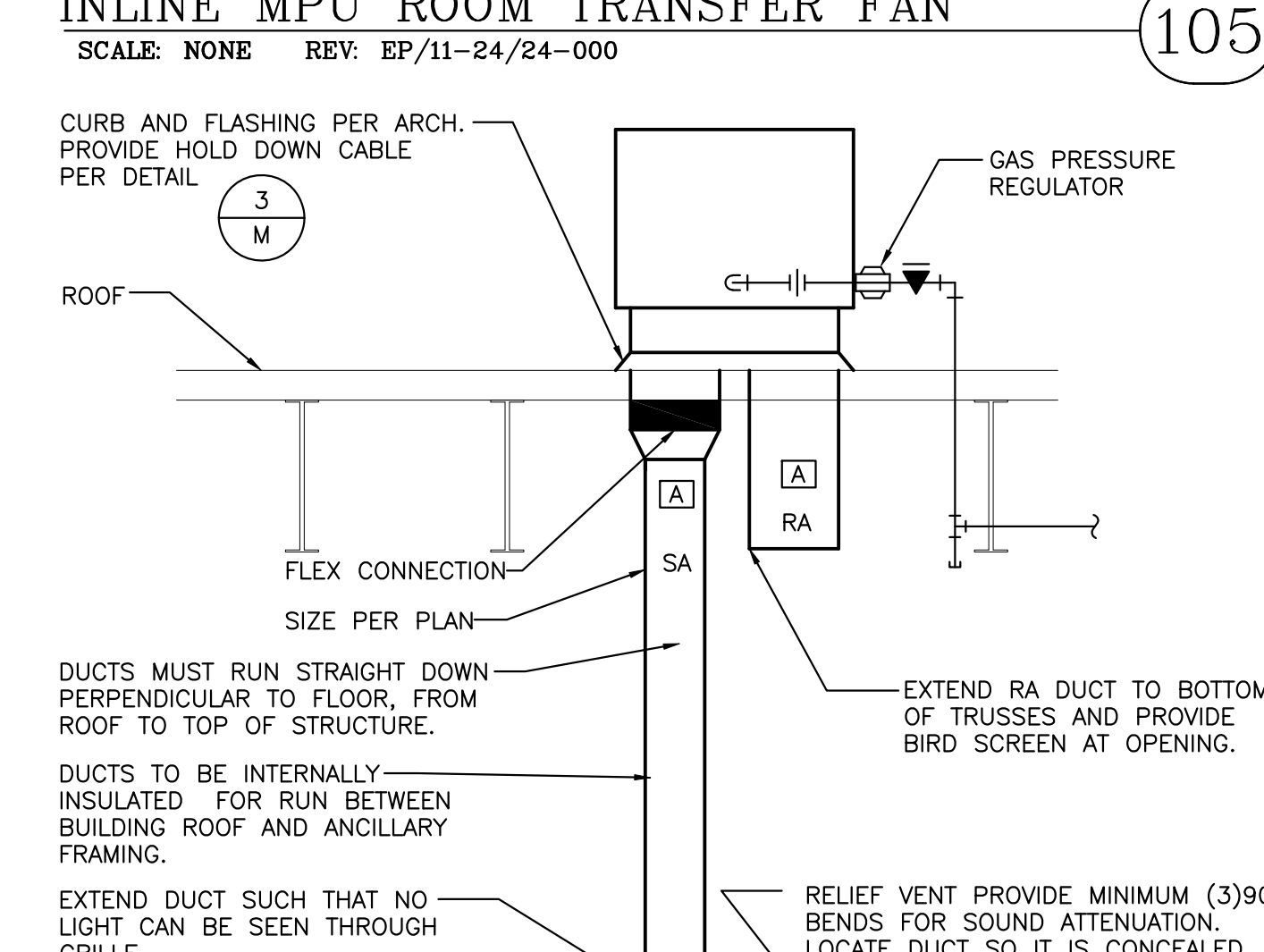
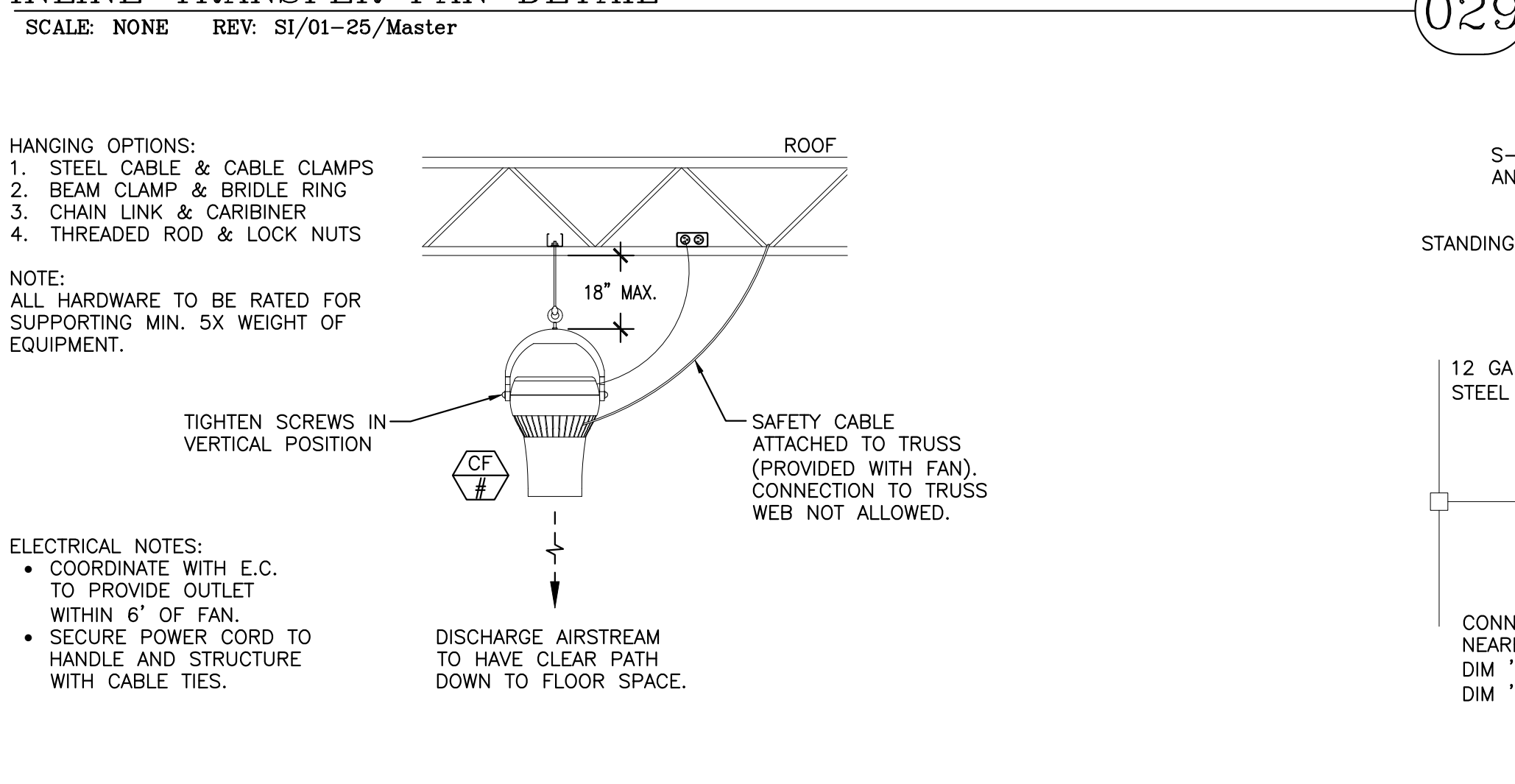
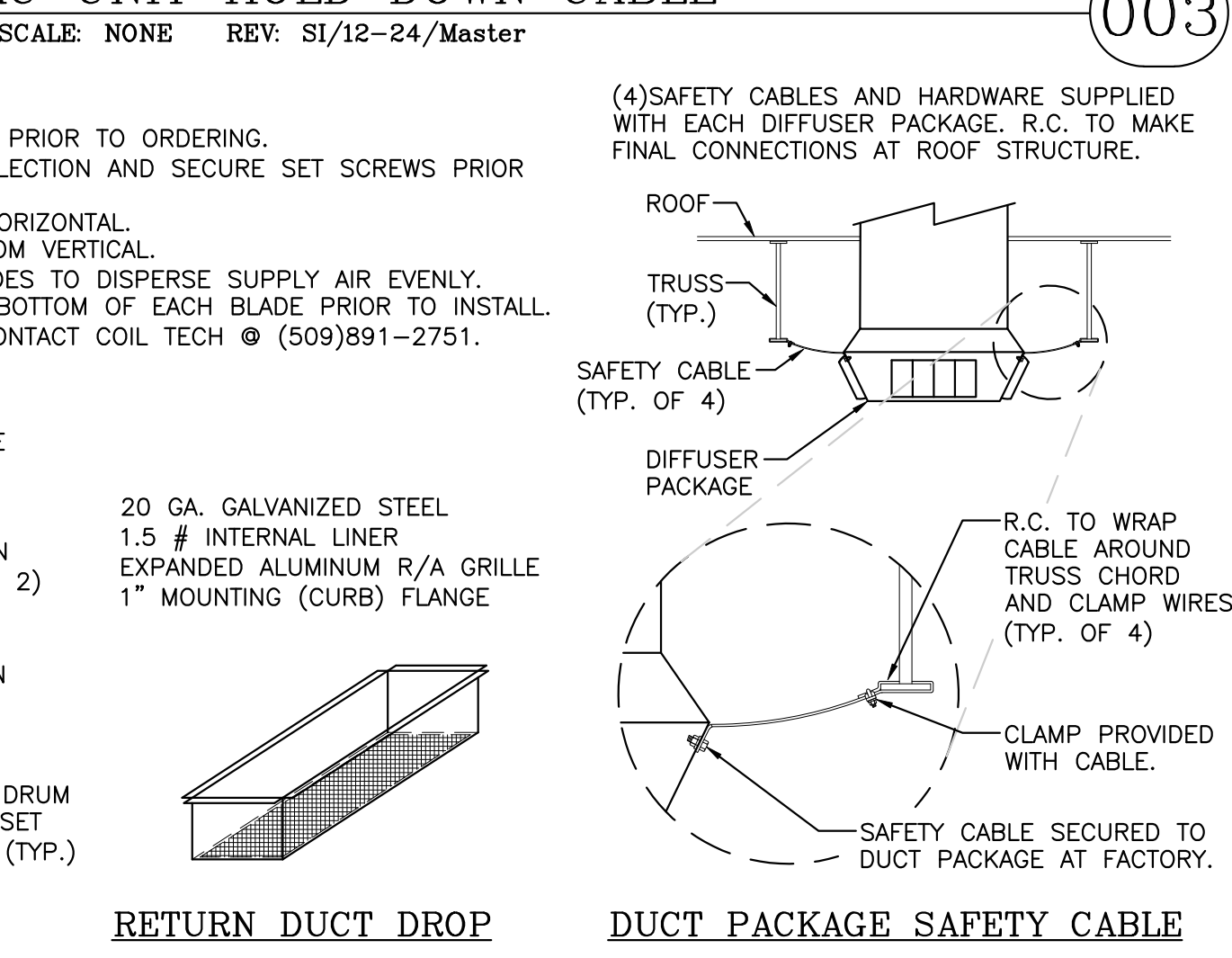
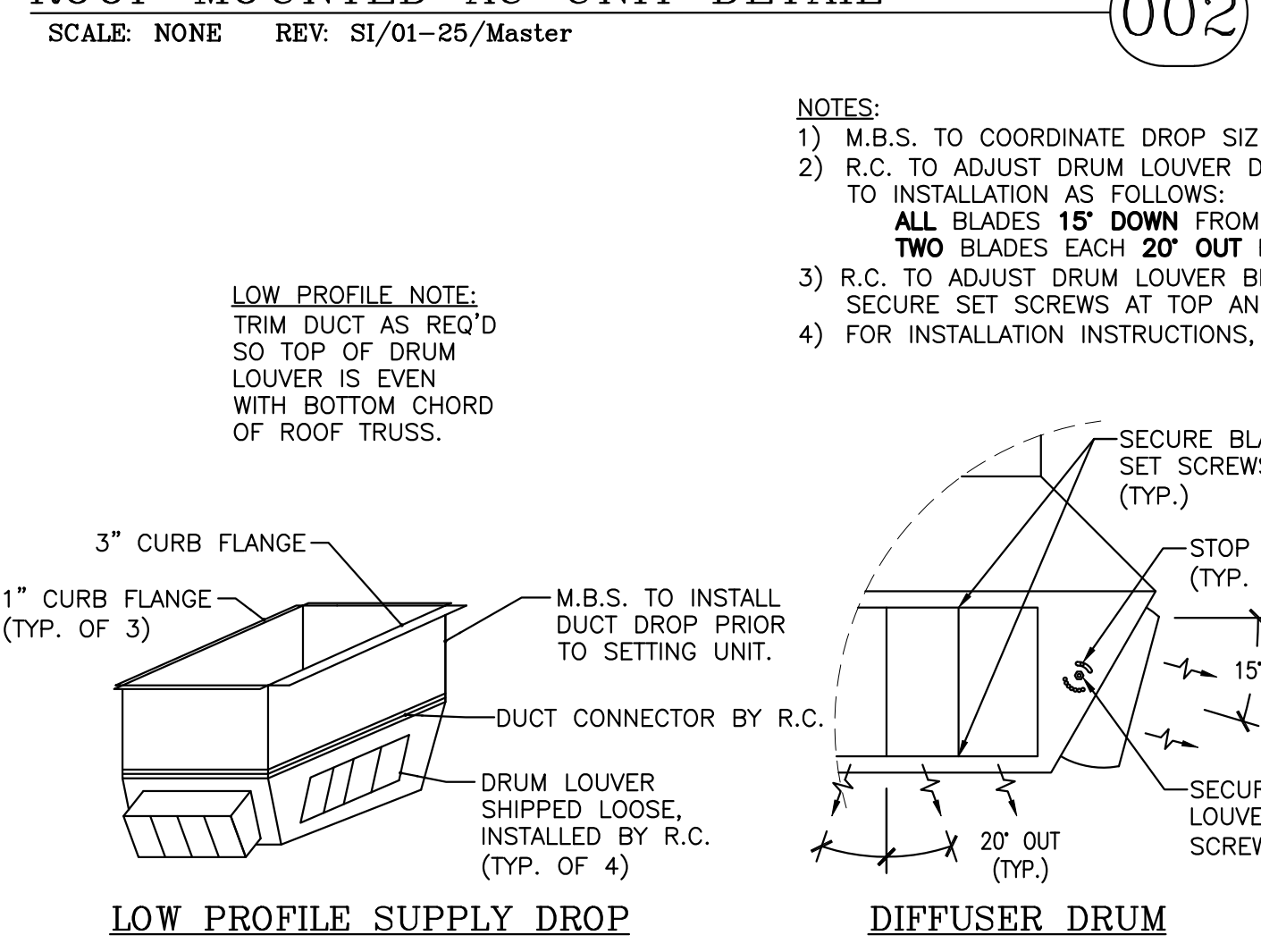
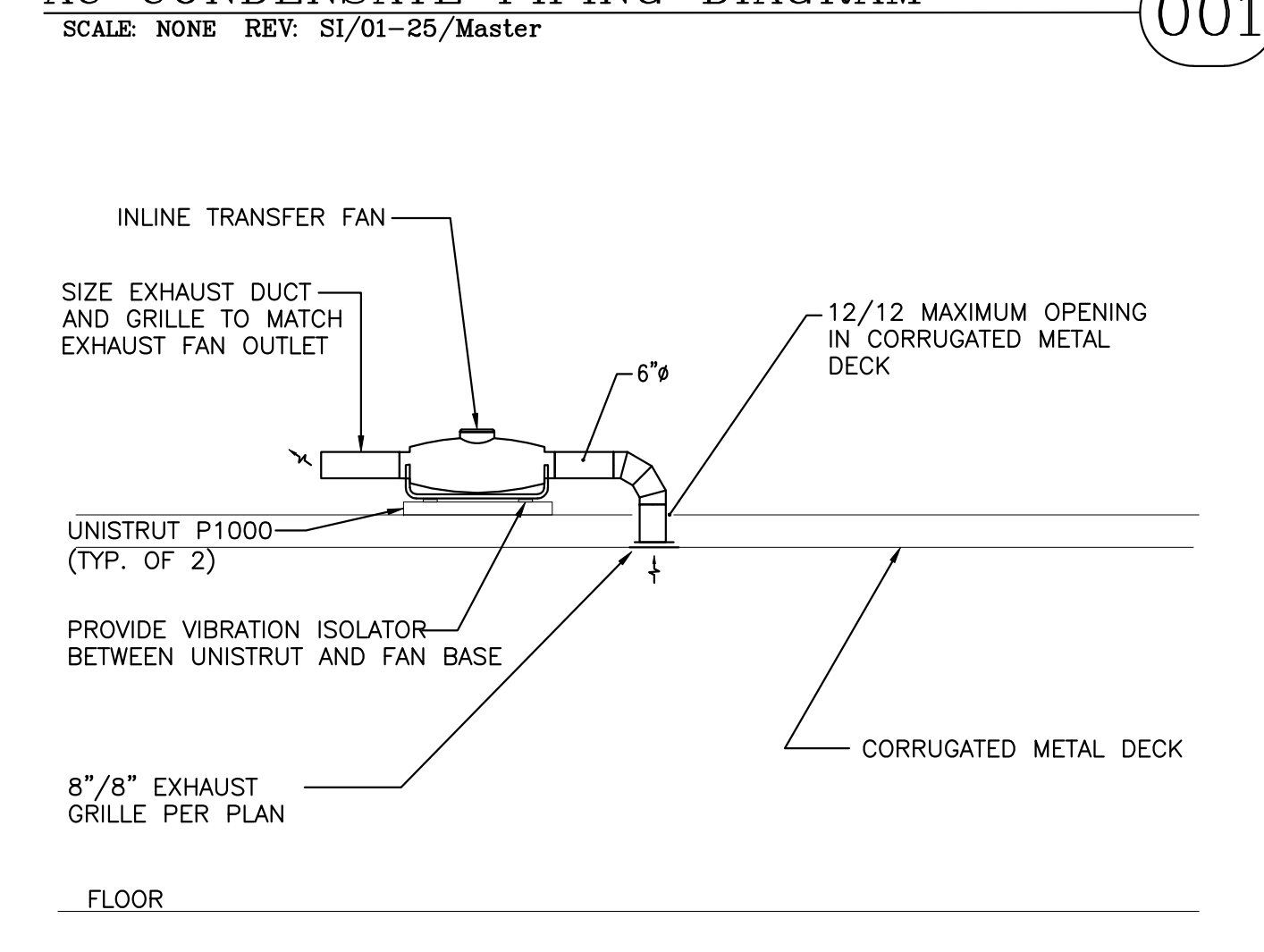
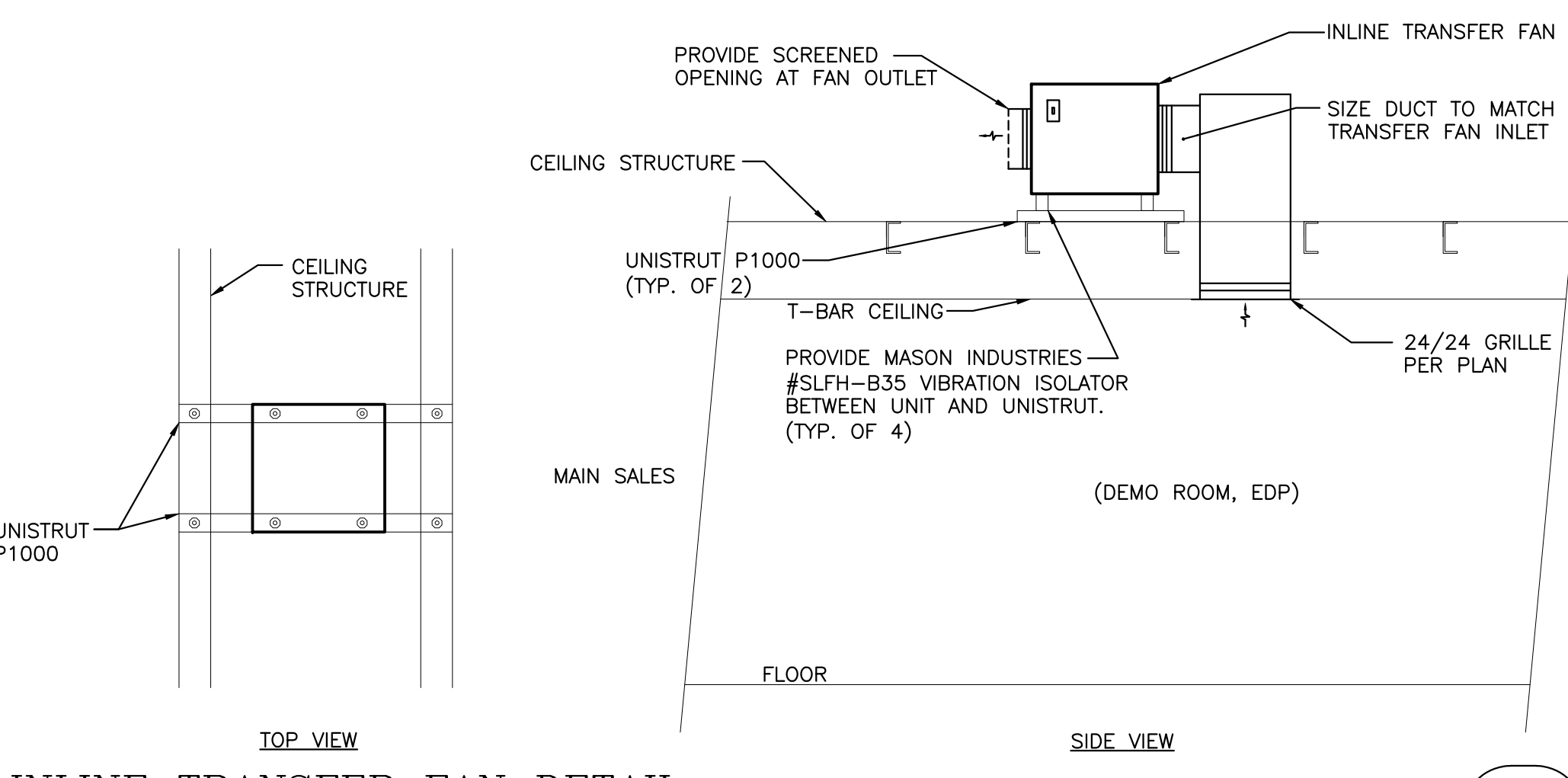
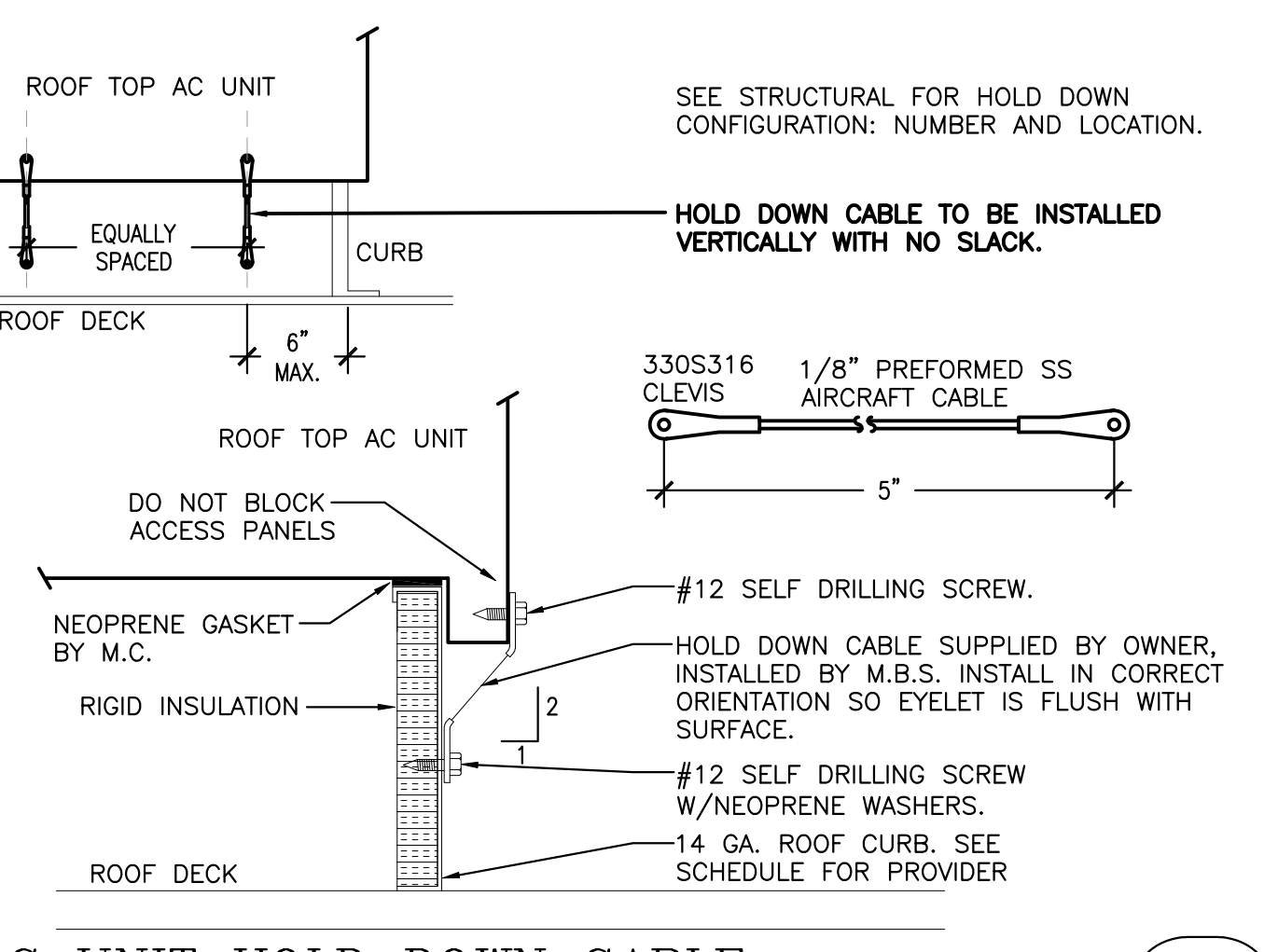
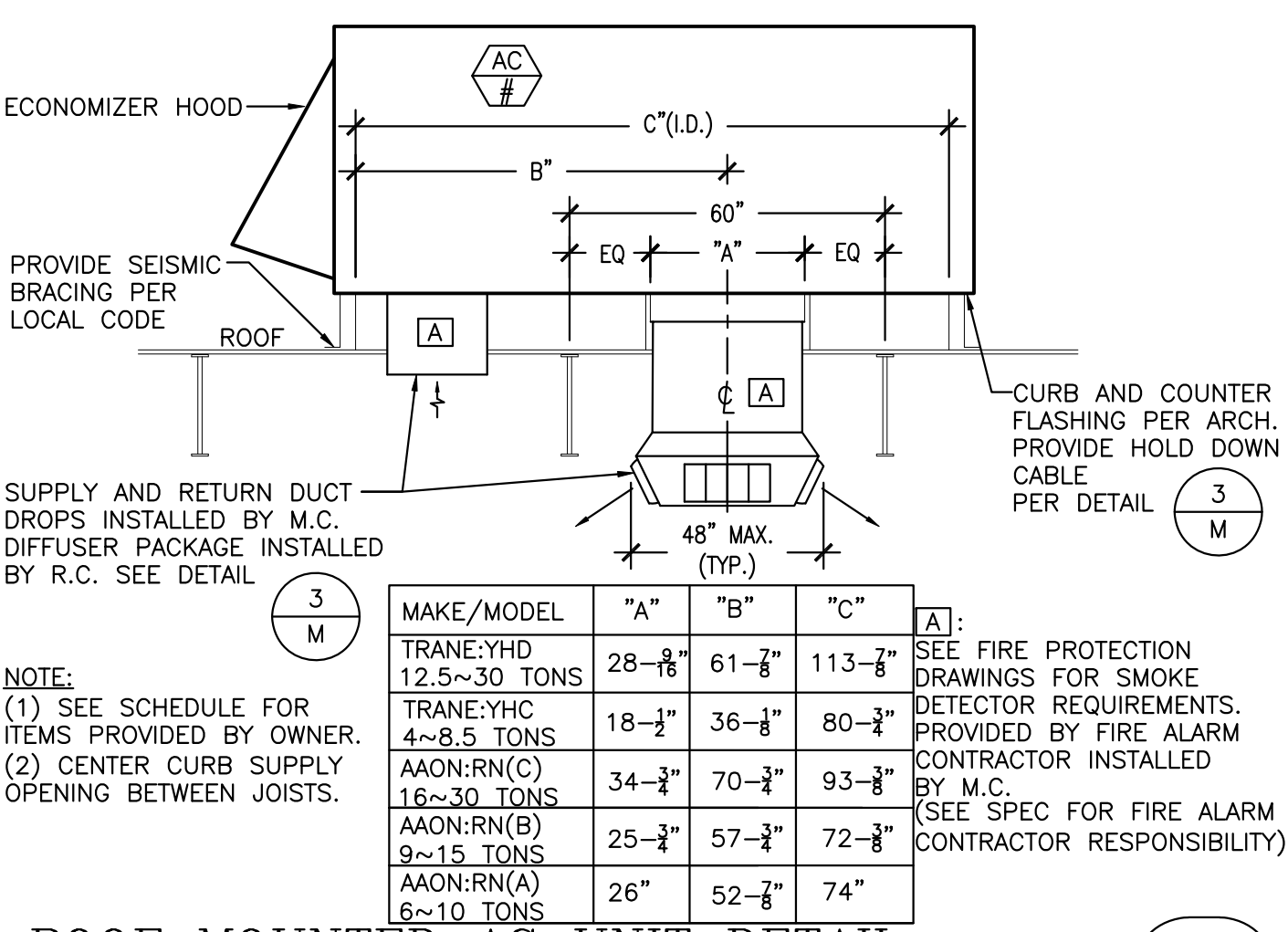
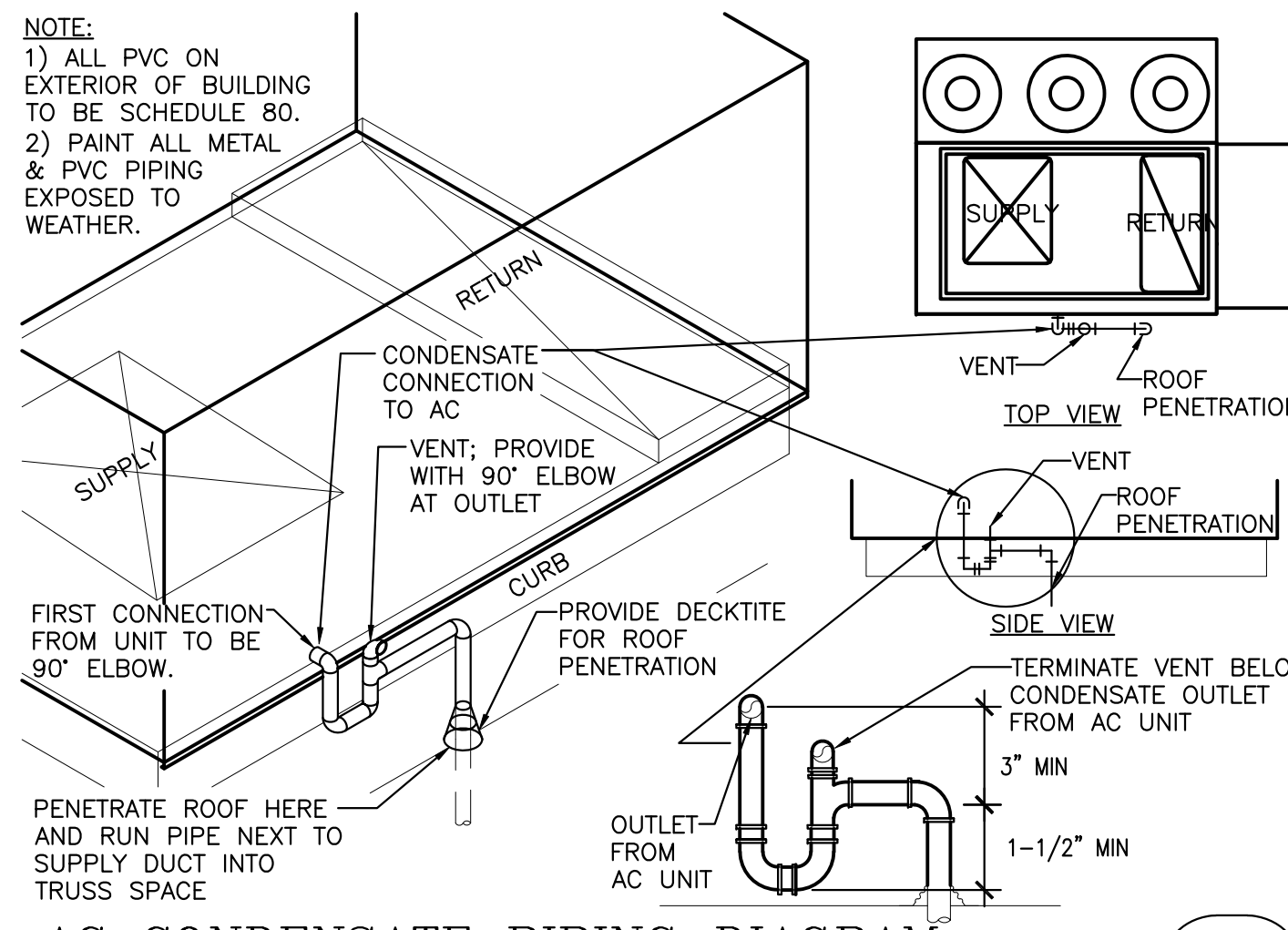


HOOD CONTROL USER INTERFACE DETAIL

SCALE: NONE REV: EP/10-24/24-000

FILTERS
FILTER CONFIGURATION AND AIR VELOCITY FOR HOOD:
(TYP. OF 2)
FILTER SIZE: 20" X 20" = 2.78 SQ. FT. (2.23 SF FA)
NUMBER OF FILTERS: 4
TOTAL FILTER AREA: 4 X 2.23 SQ. FT. = 8.92 SQ. FT.
AIR VELOCITY: 1500 CFM / 8.92 SQ. FT. = 168 FPM

STATIC PRESSURE & EXHAUST FAN
EXHAUST F



PERMIT COMMENTS



PROJECT STATUS: PERMIT COMMENTS 1

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/22/25	ISSUED FOR PERMIT
02/10/26	ISSUED FOR PERMIT
03/03/26	ISSUED FOR PERMIT

T.E. OF WA, INC.
930 N. RIVERSIDE DRIVE
SUITE #200
LEES SUMMIT, MO 64067
PHONE: 485-870-5753
FAX: 485-870-5756

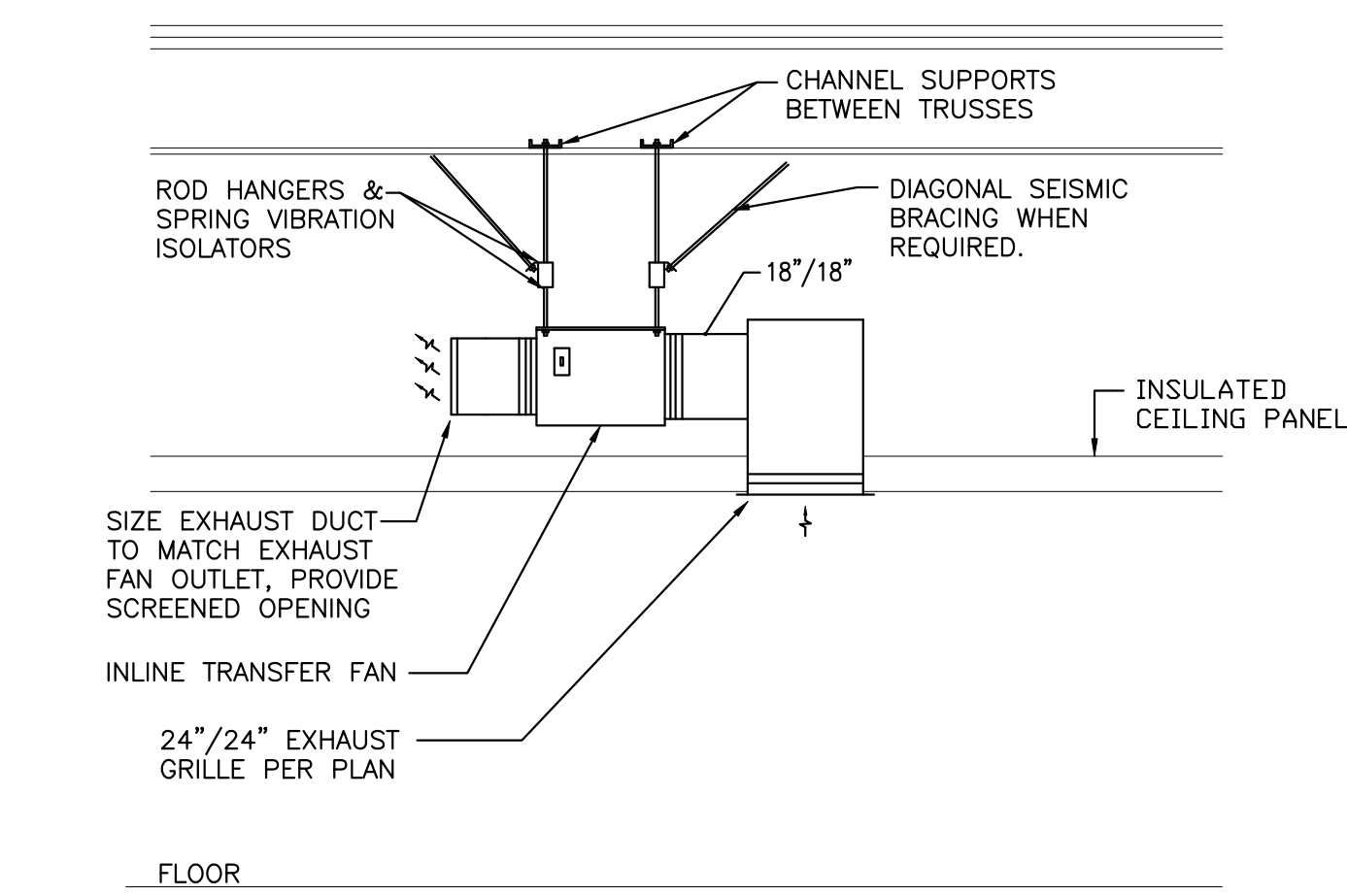
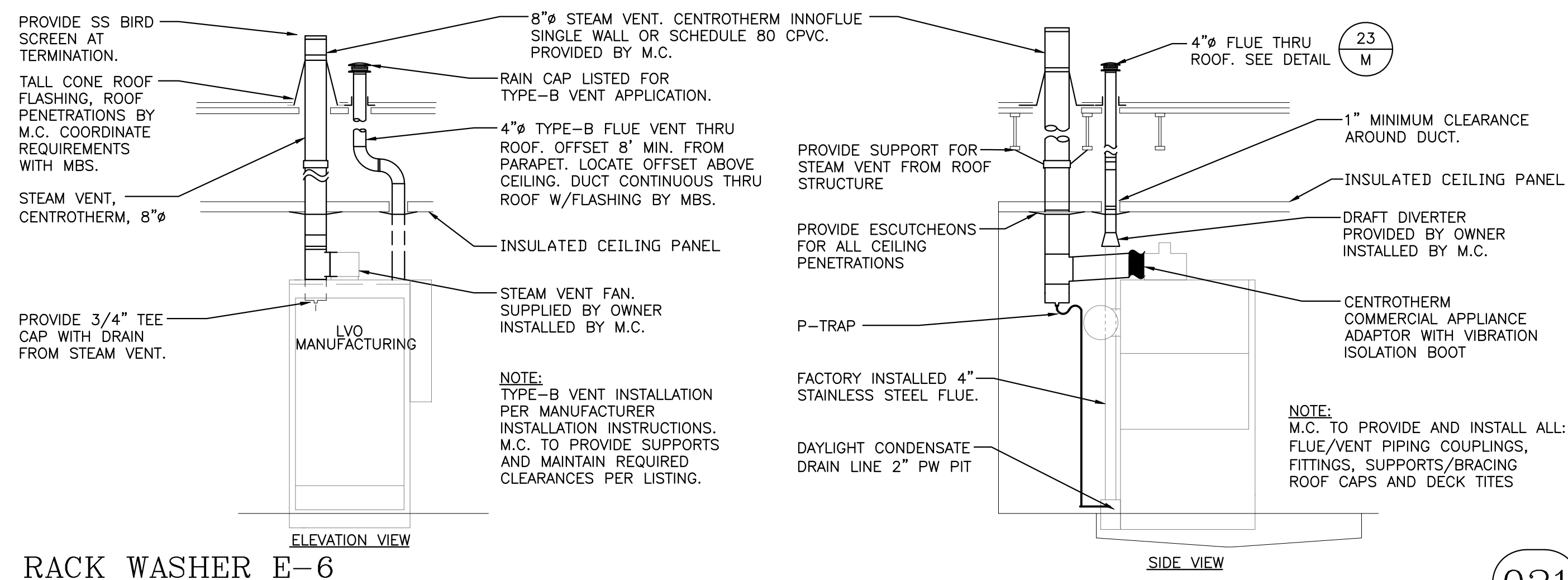
NEW WAREHOUSE
LEES SUMMIT, MO

COSTCO WHOLESALE

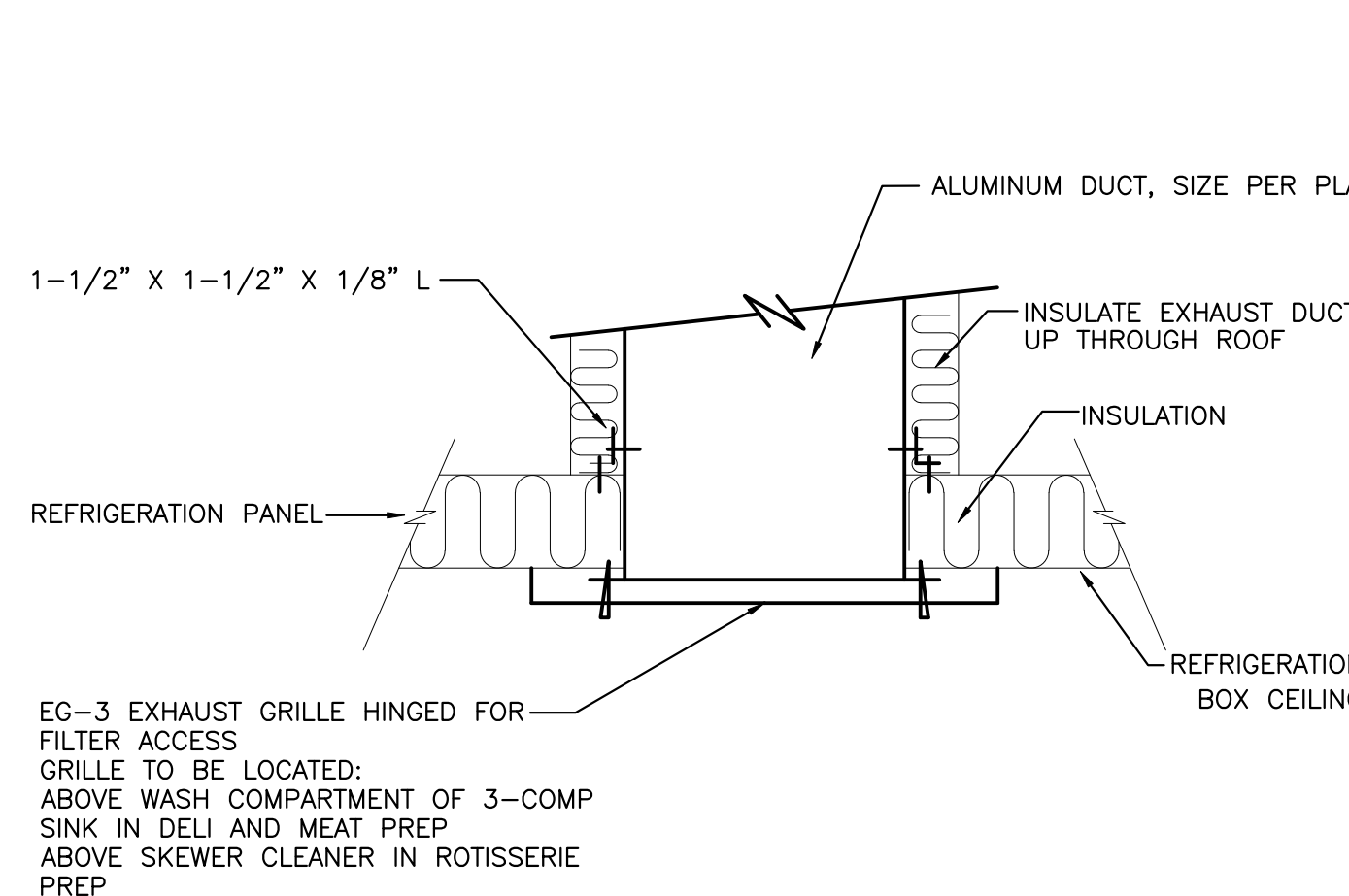
TEI #: 25-346
PM: CWC
CHECKED BY: PKR/ANT
ISSUED: 12/02/20

M-0.3
MECHANICAL DETAILS

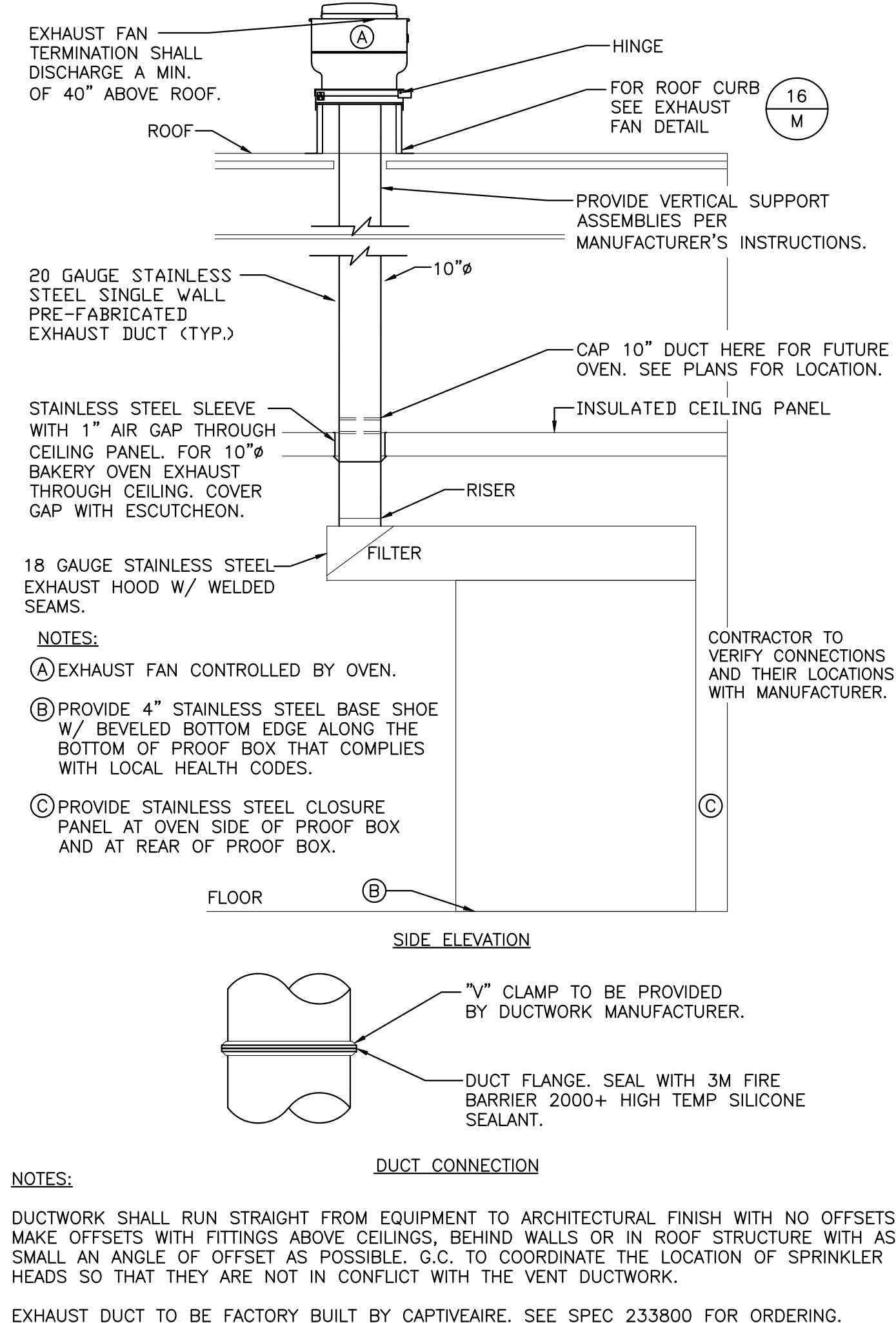
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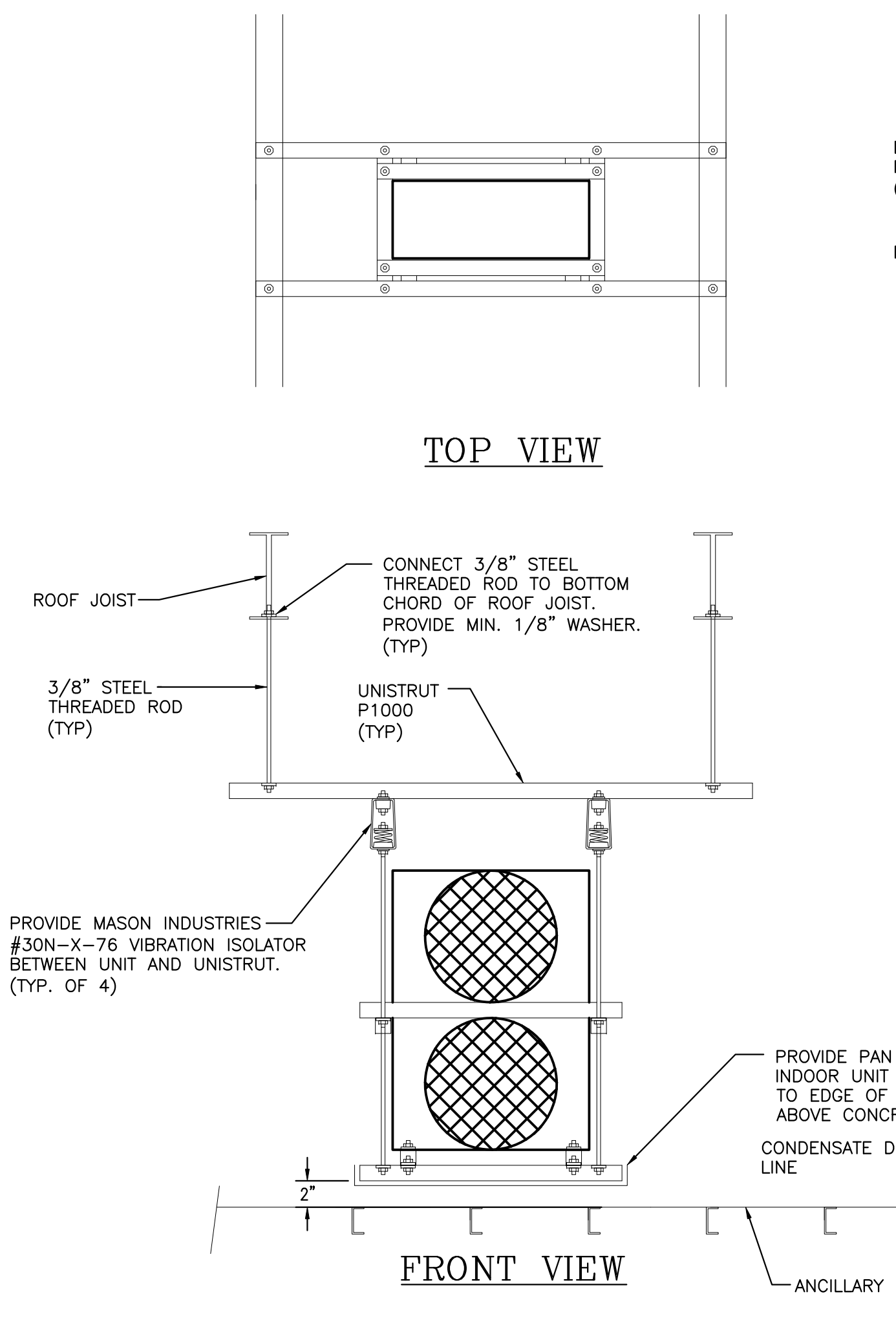
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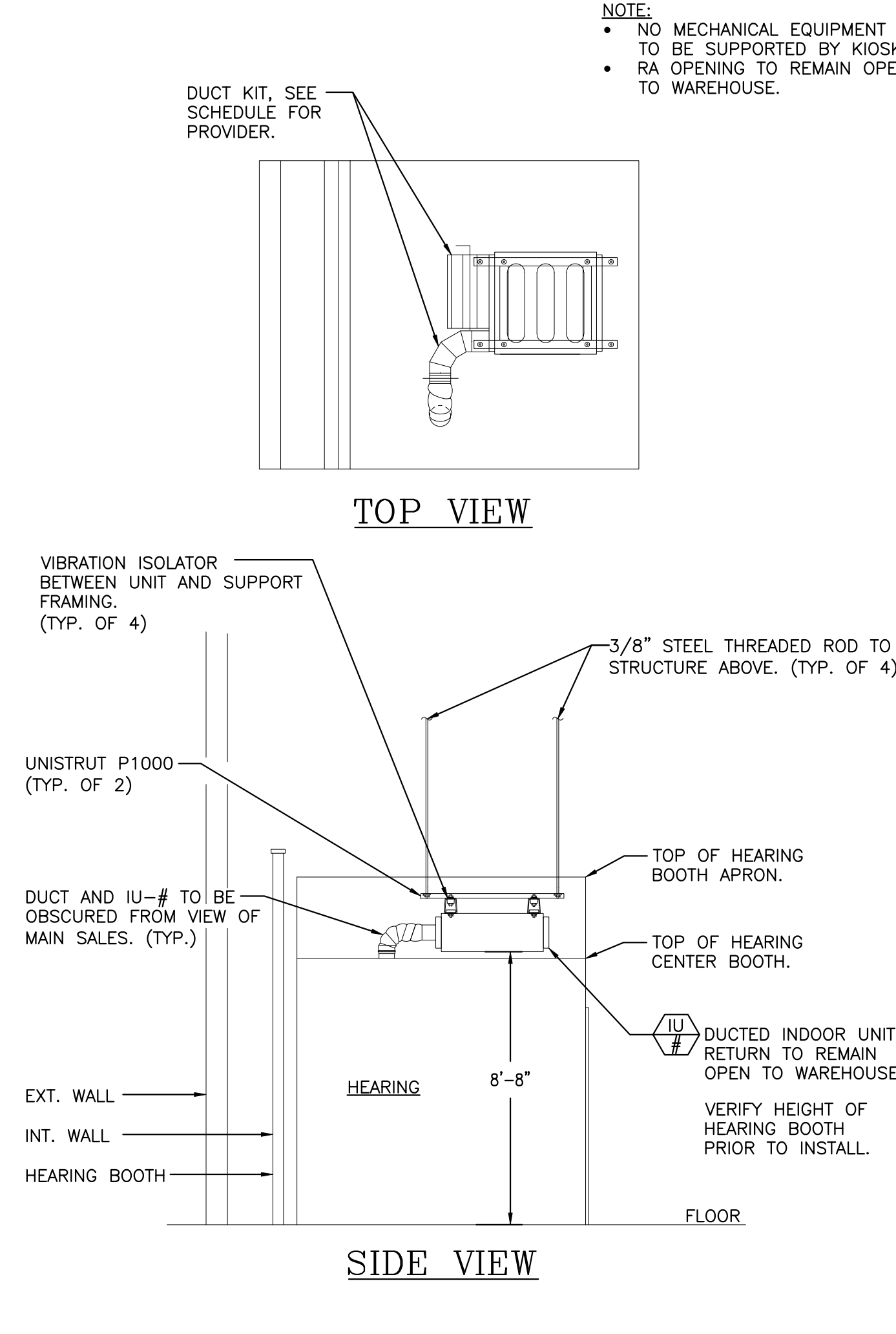
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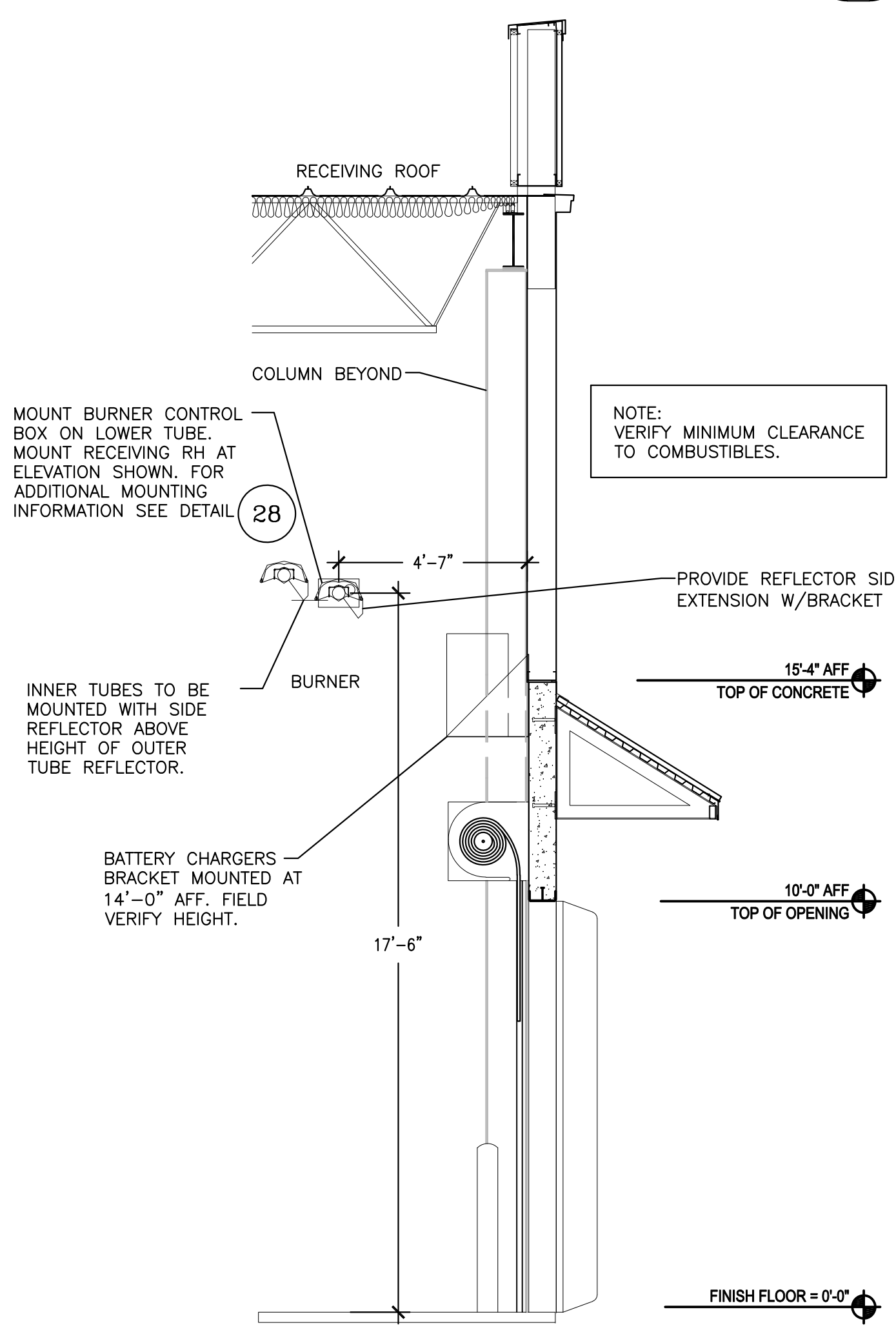
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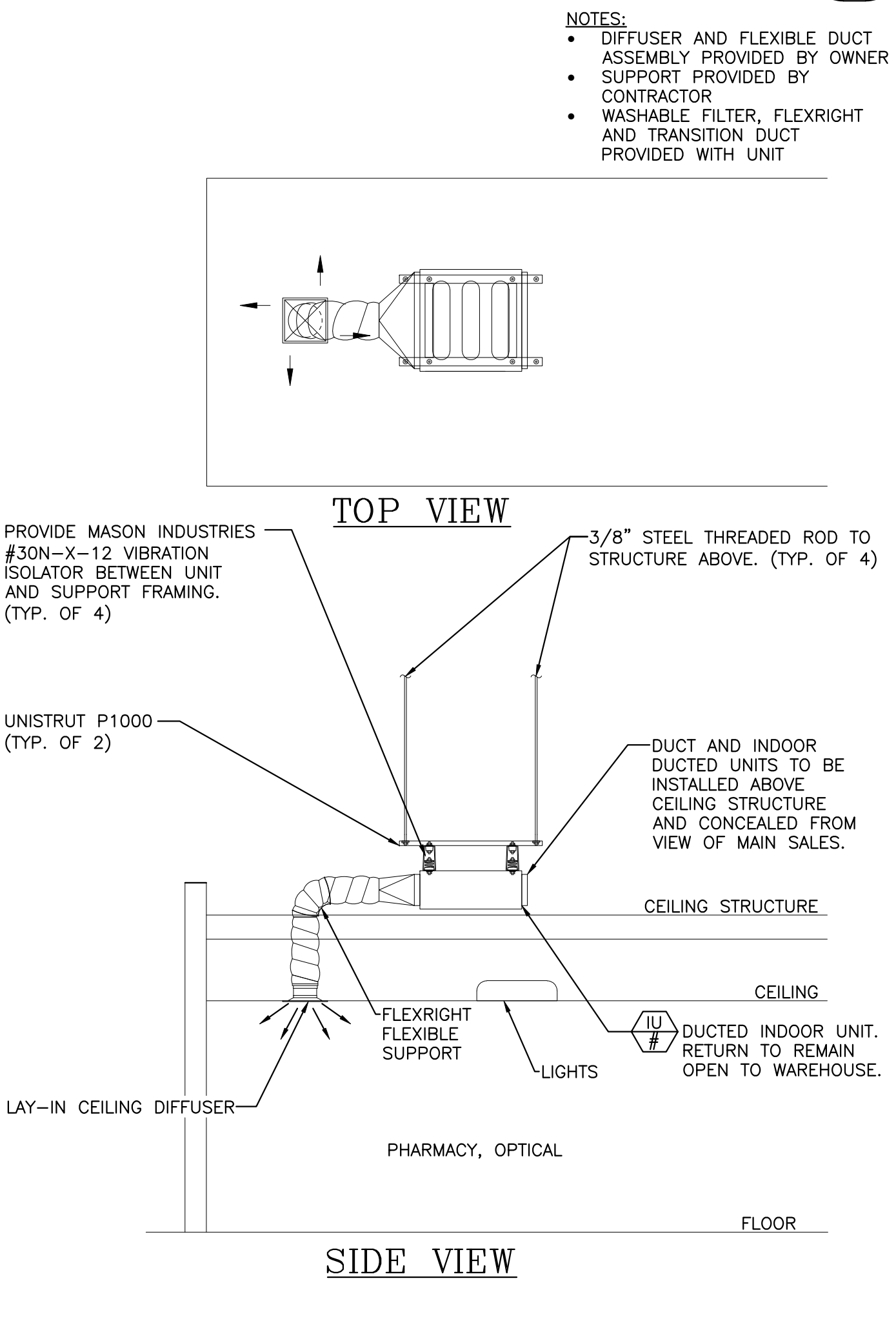
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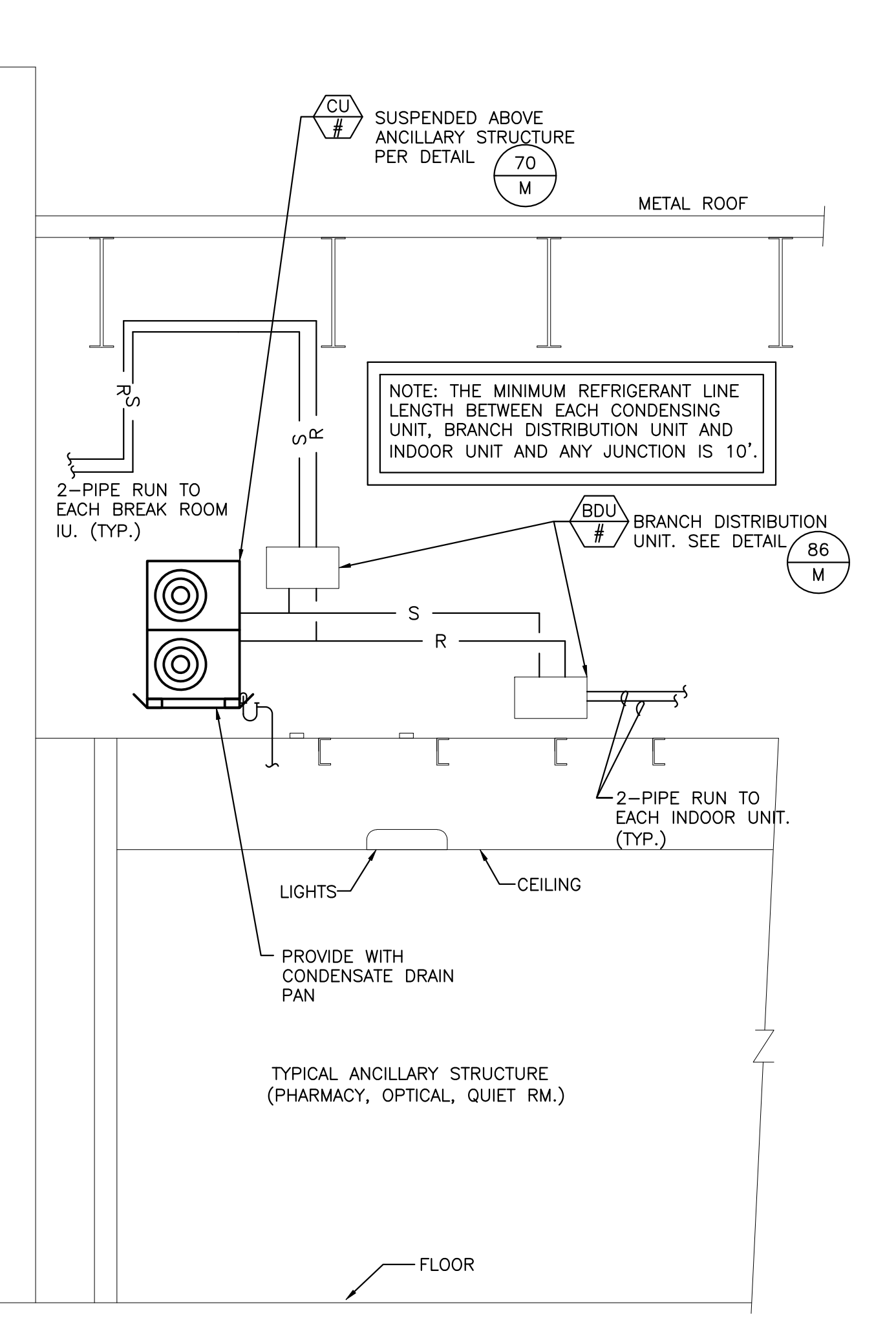
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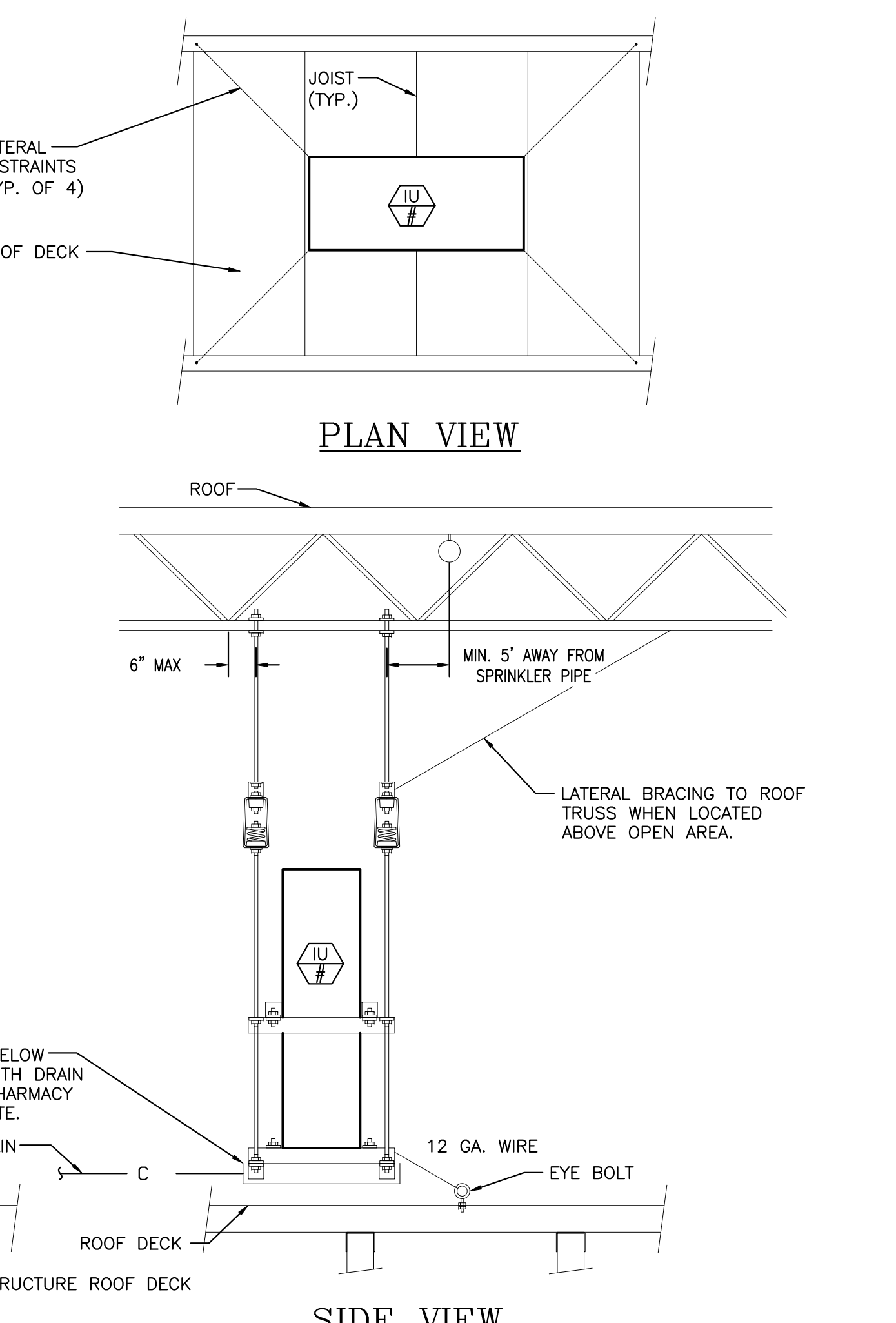
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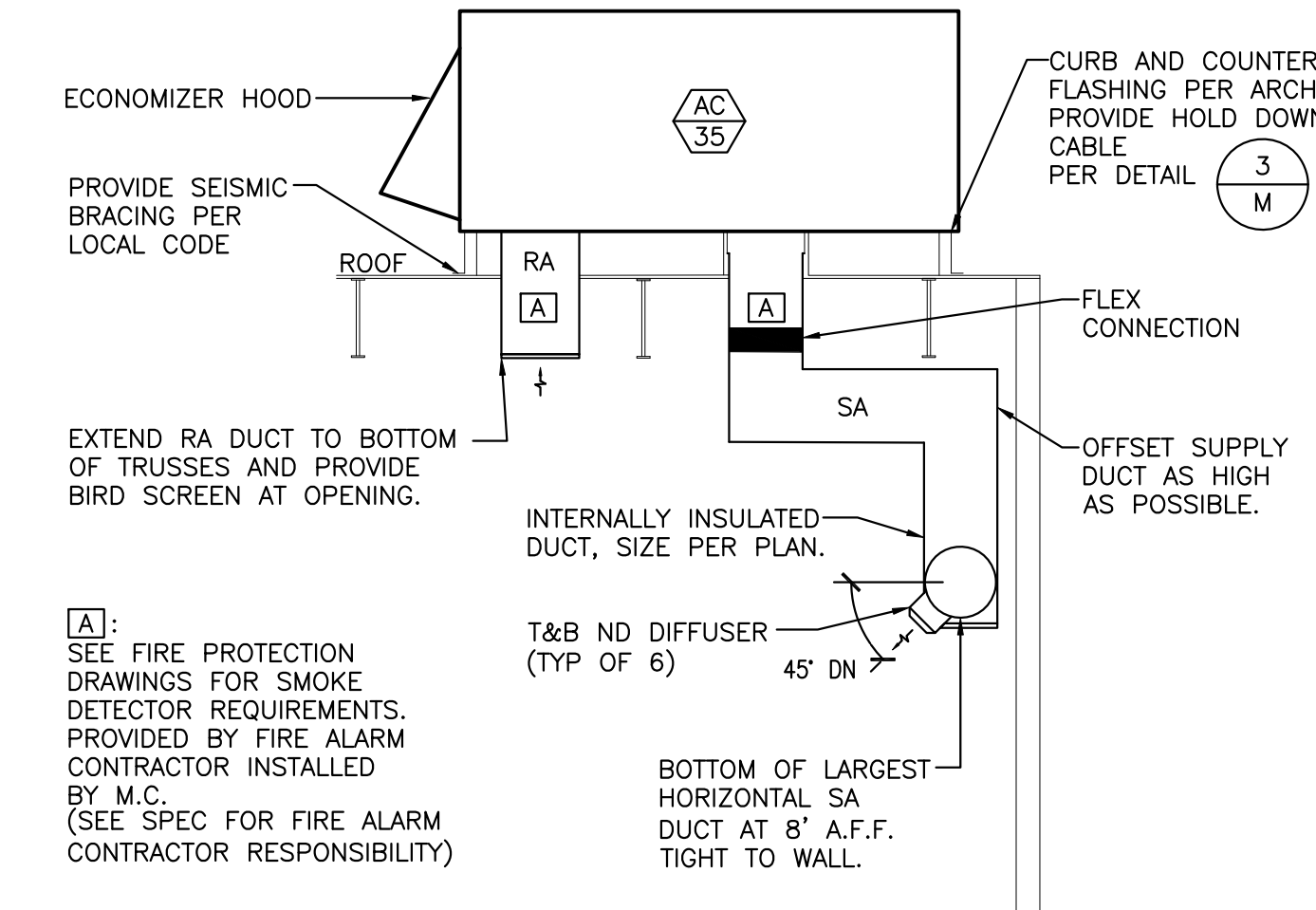
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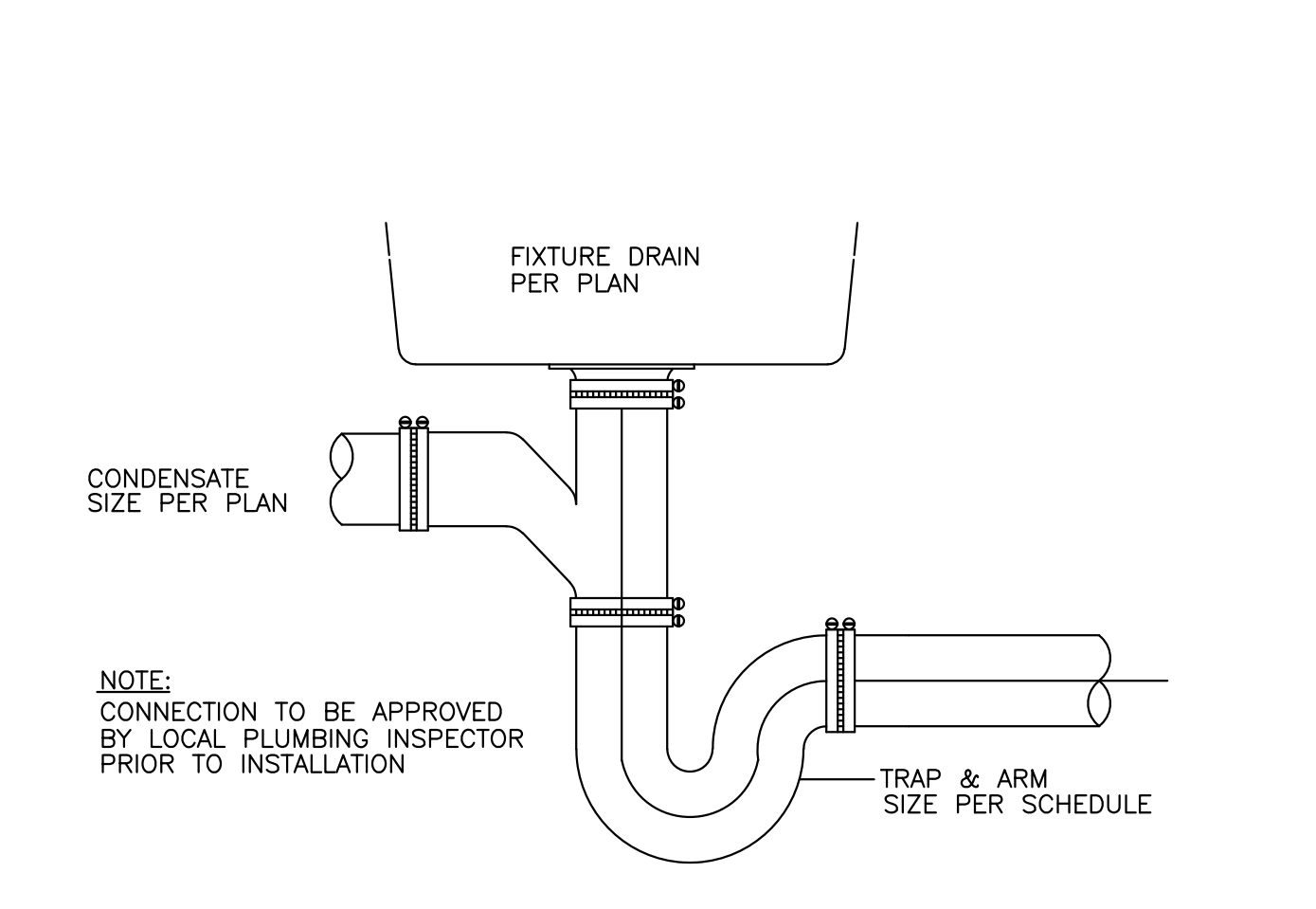
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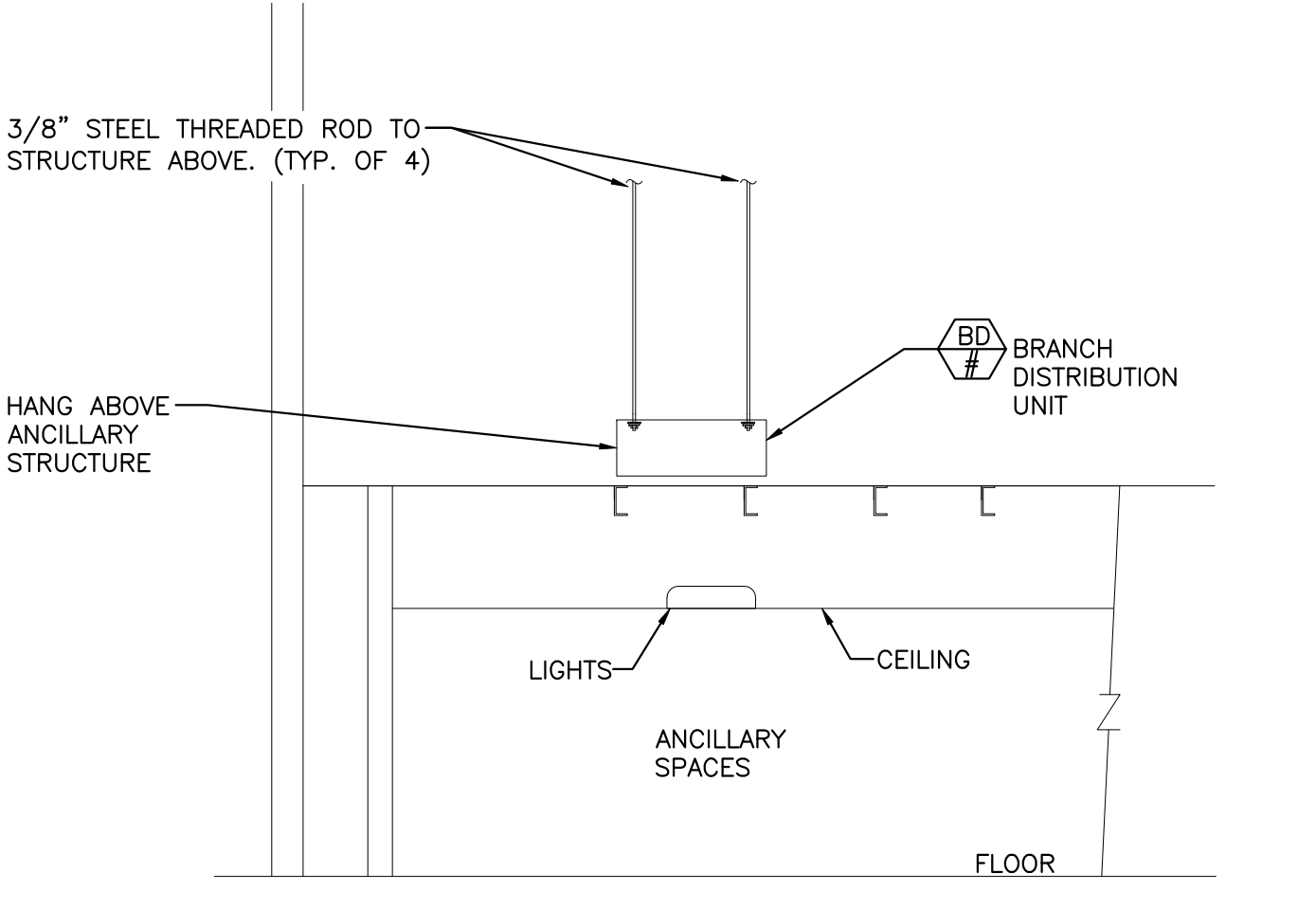
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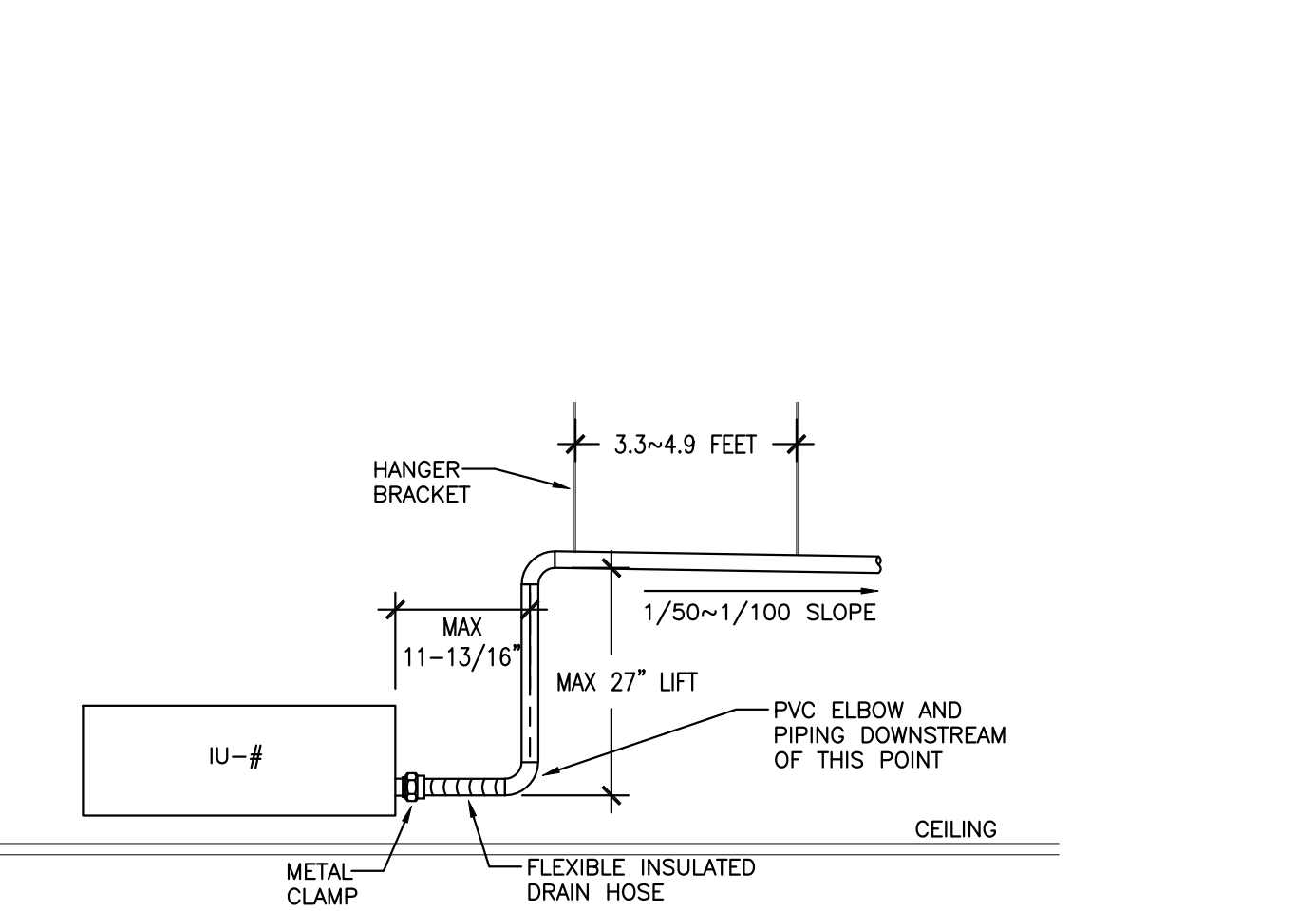
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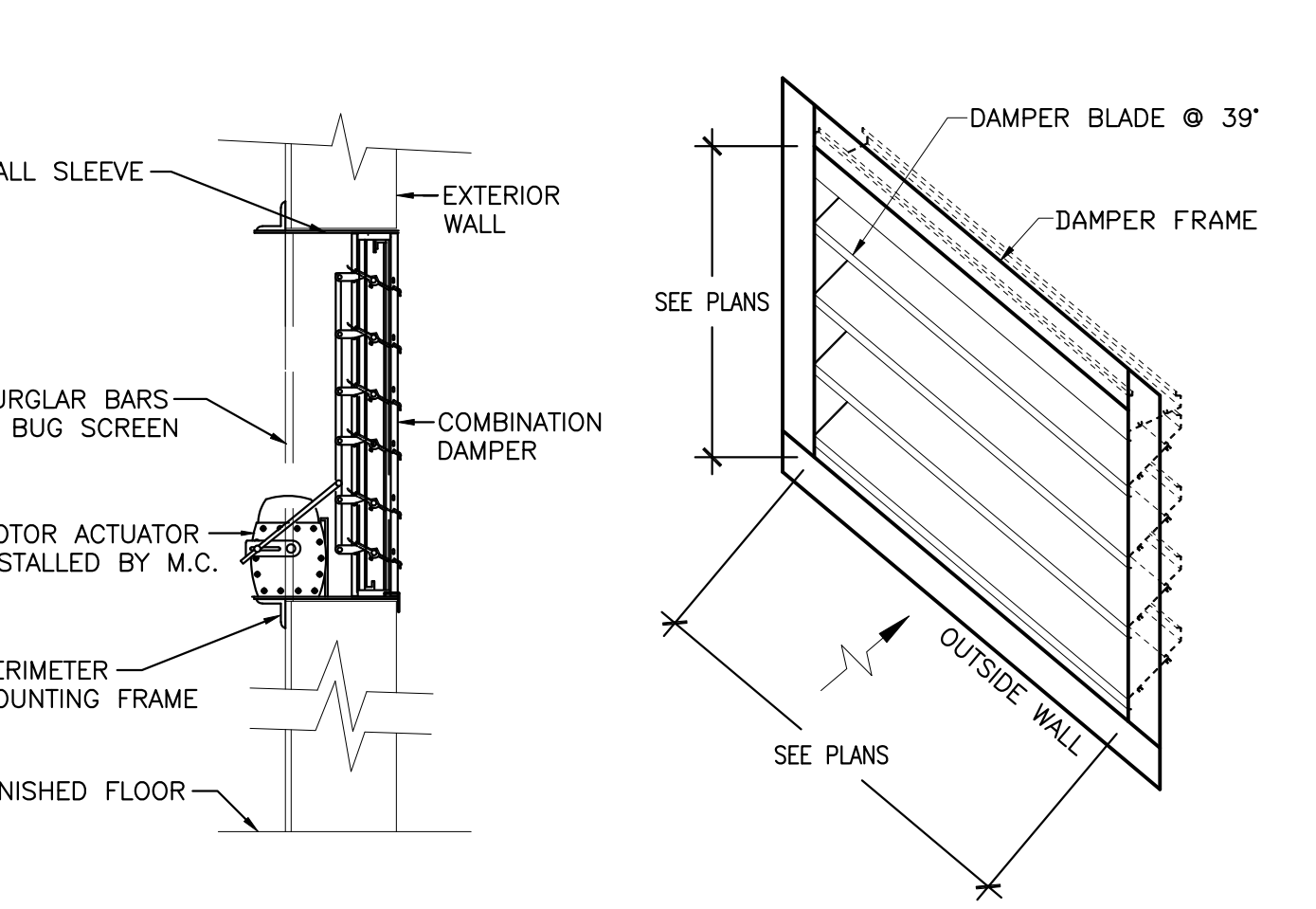
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SCALE: NONE REV: EP/11-24/24-000



087
SCALE: NONE REV: EP/11-24/24-000



008
SCALE: NONE REV: EP/11-24/24-000

PERMIT COMMENTS

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
03/03/2026

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/02/25	ISSUED FOR PERMIT
02/10/26	ISSUED FOR BID
03/03/26	BID ADDENDUM 1
03/03/26	PERMIT COMMENTS 1

T.E. OF WA, INC.
930 N. RIVERSTIDE DRIVE
SUITE #200
LEES SUMMIT, MO 64067
PHONE: 485-870-3753
FAX: 485-870-3756

NEW WAREHOUSE
LEES SUMMIT, MO

COSTCO WHOLESALE

TEI #: 25-346
PM: CWC
CHECKED BY: PKR/ANT
ISSUED: 12/02/20

M-0.4
MECHANICAL DETAILS



PERMIT COMMENTS

PROJECT STATUS: PERMIT COMMENTS 1

DATE DESCRIPTION

11/20/25 ISSUED FOR PERMIT
12/22/25 ISSUED FOR AIR
02/10/26 BID ADDENDUM 1
03/03/26 PERMIT COMMENTS 1

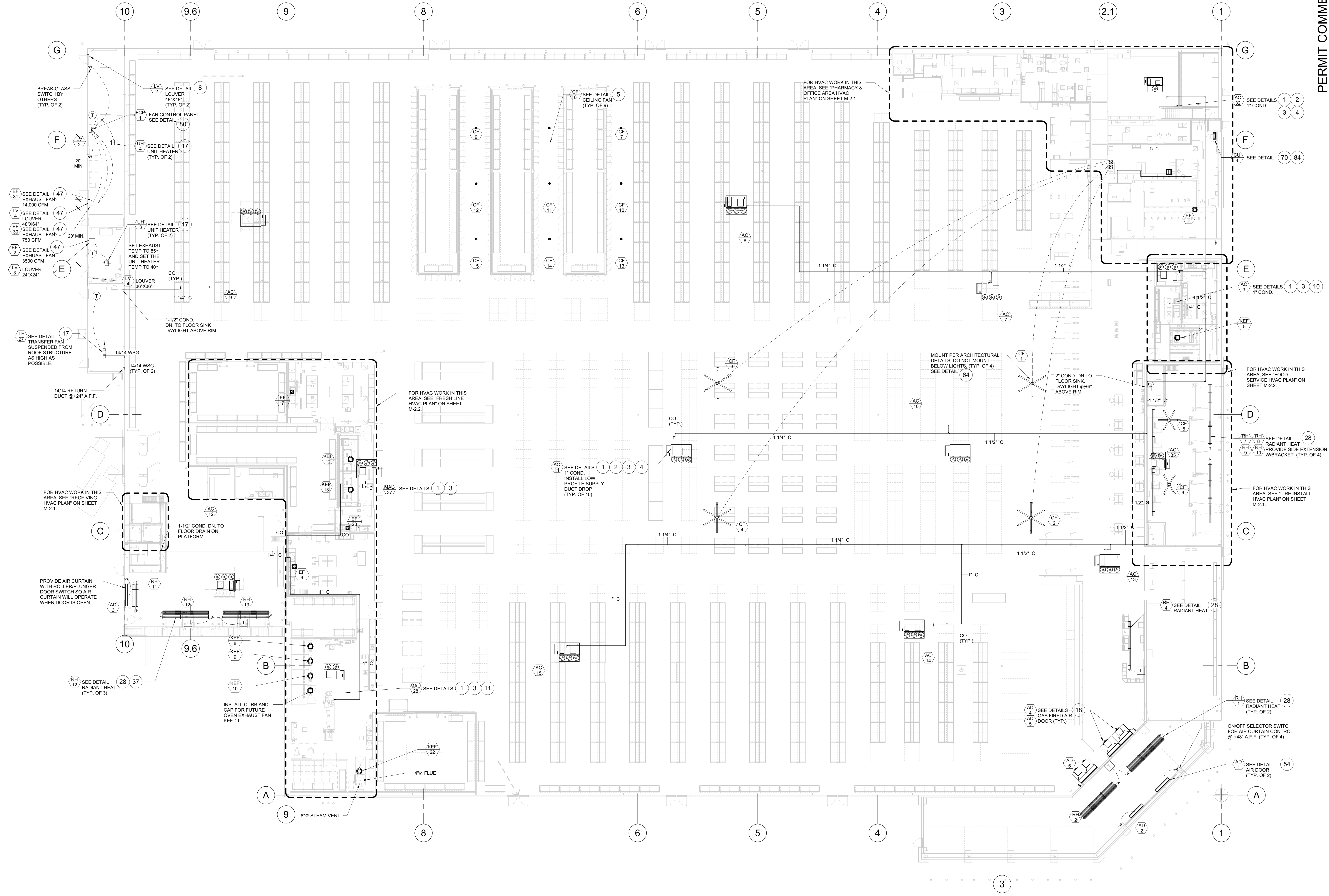
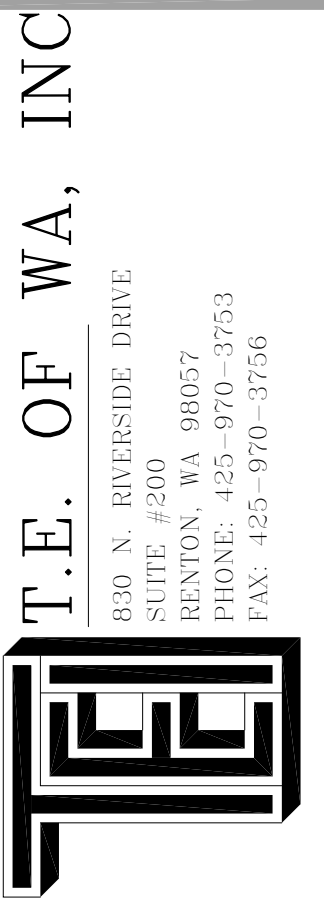
NEW WAREHOUSE
LEES SUMMIT, MO



TEI #: 25-346
PM: JAR
CHECKED BY: PKR/ANT
ISSUED: 06/04/24

MAIN MECHANICAL PLAN

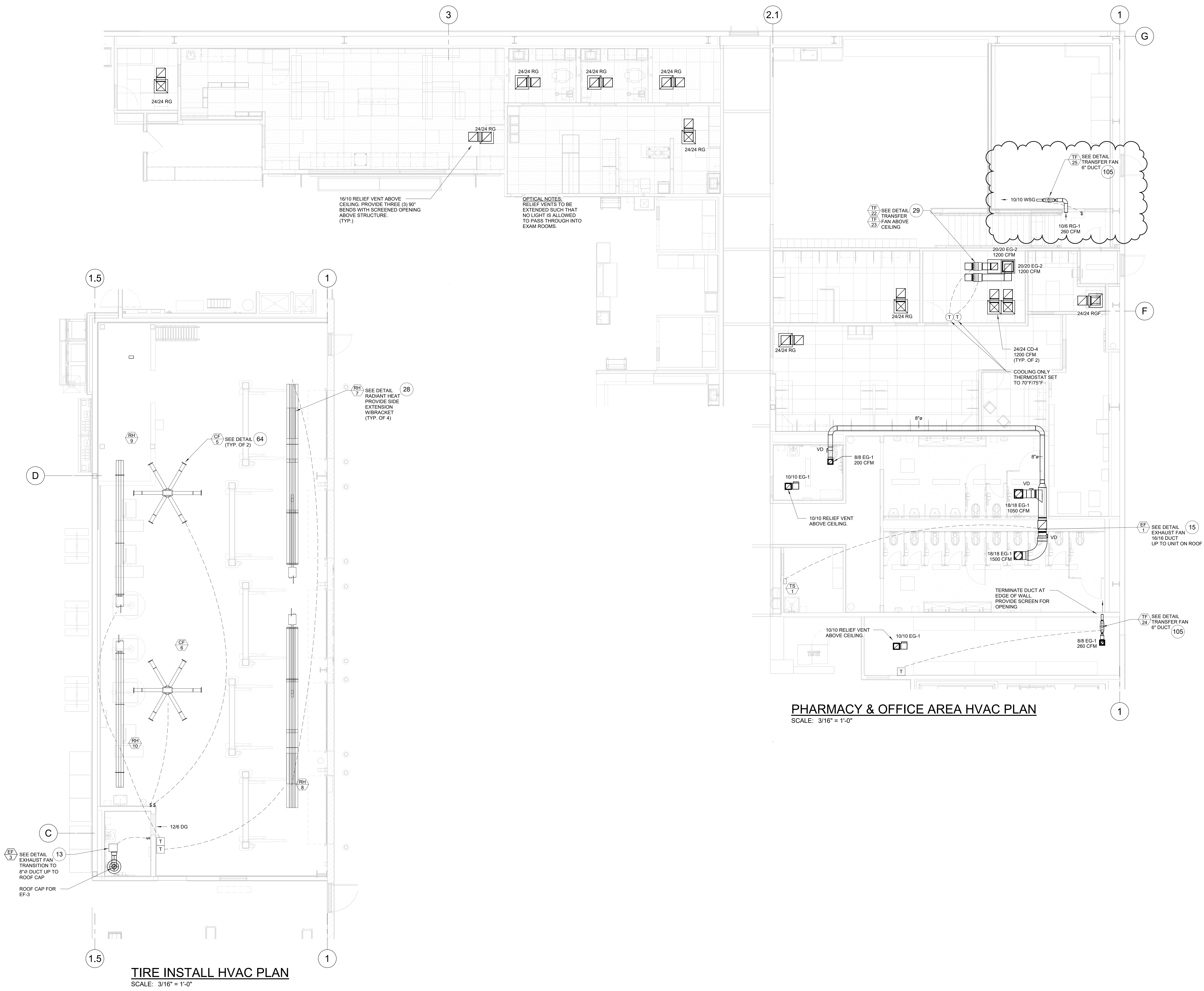
M-1.1



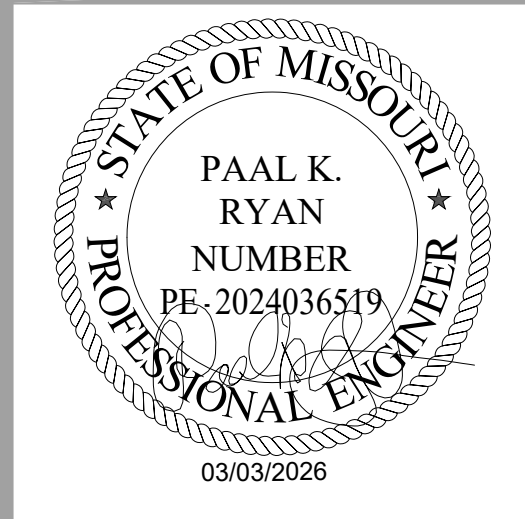
MAIN MECHANICAL PLAN
SCALE: 1/16" = 1'-0"

C:\Users\isiferan\Documents\346_MP_CENTRAL_2026_isiferan335XA.rvt

3/3/2026 4:39:59 PM



PERMIT COMMENTS



DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/22/25	ISSUED FOR PERMIT
02/10/26	ISSUED FOR BID
03/03/26	ISSUED FOR PERMIT COMMENTS 1

T.E. OF WA, INC.
930 N. RIVERSIDE DRIVE
SUITE #200
LEES SUMMIT, MO 64062
PHONE: 417-970-9753
FAX: 417-970-9756

NEW WAREHOUSE
LEES SUMMIT, MO

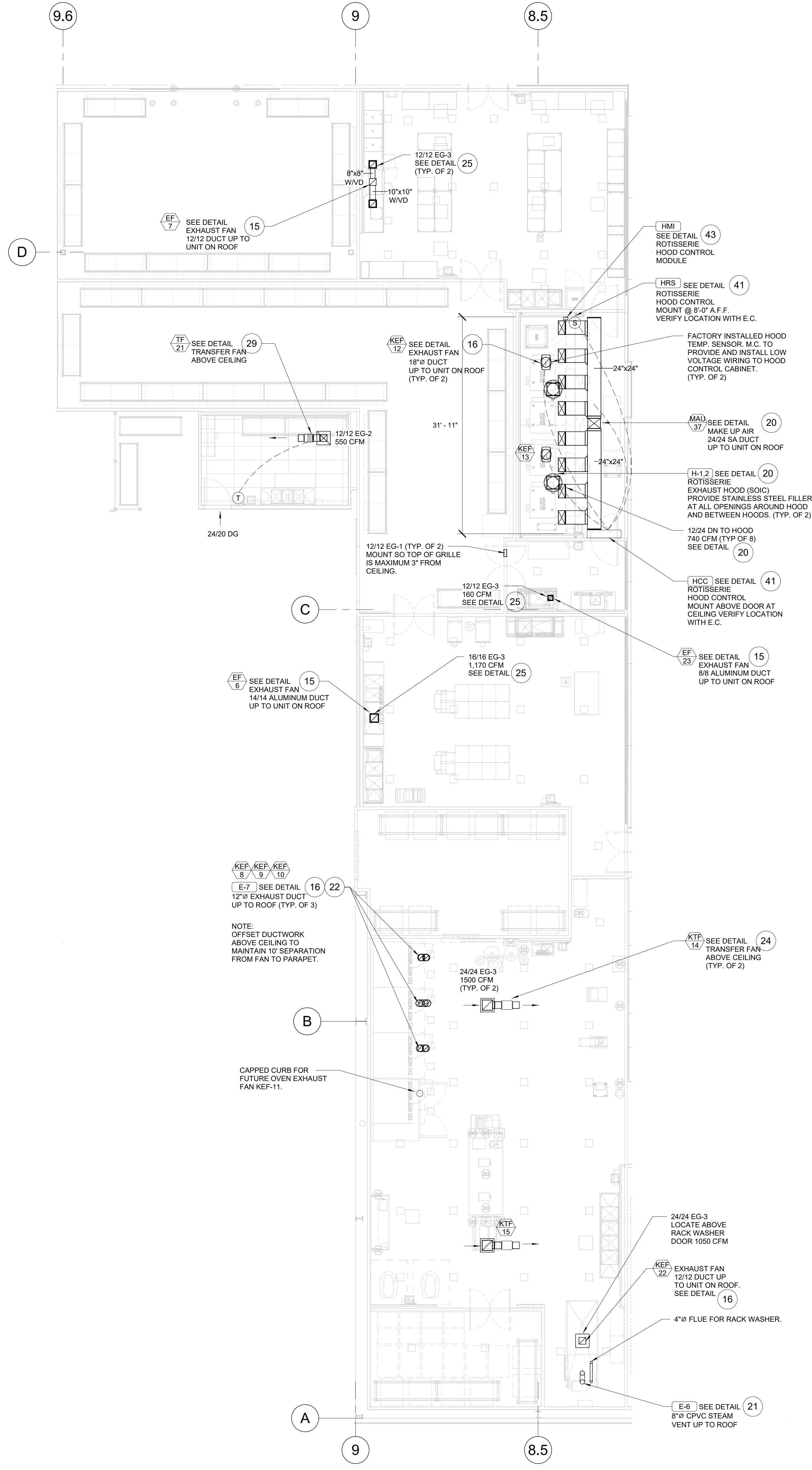


TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 06/04/24

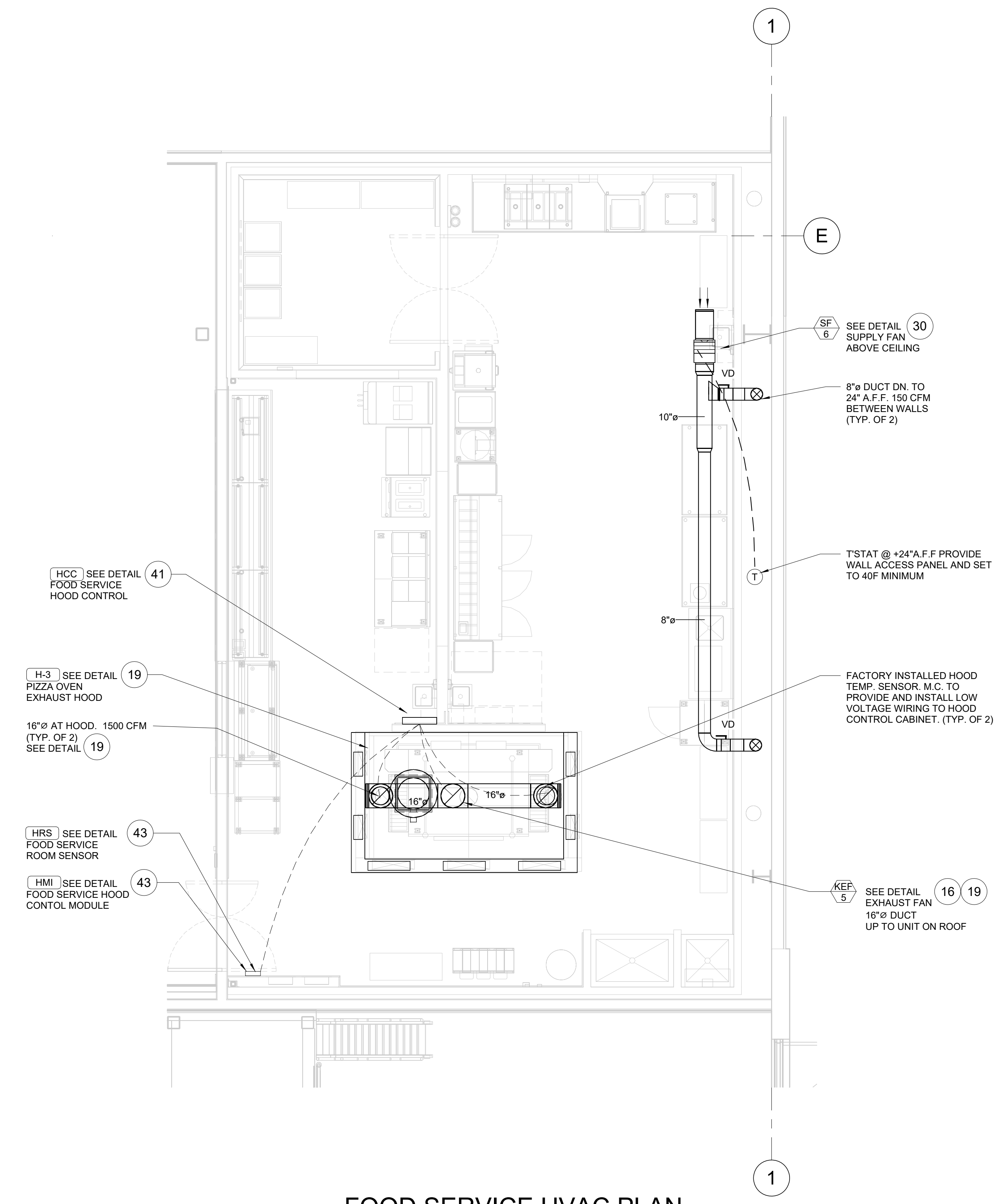
ENLARGED MECHANICAL PLANS

M-2.1

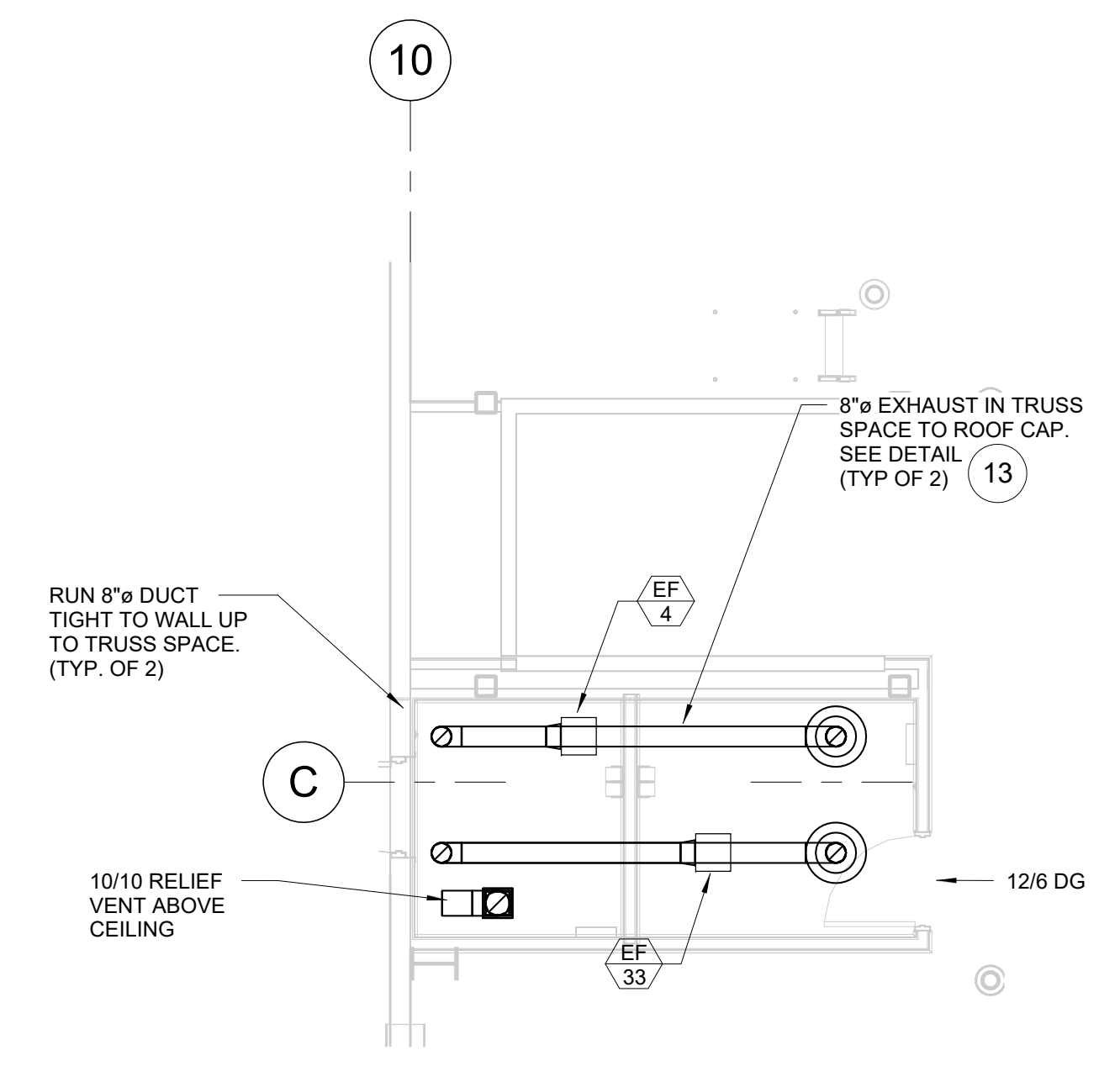
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FRESH LINE HVAC PLAN
SCALE: 1/8" = 1'-0"



FOOD SERVICE HVAC PLAN
SCALE: 1/4" = 1'-0"



RECEIVING HVAC PLAN
SCALE: 3/16" = 1'-0"

PERMIT COMMENTS



DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/22/25	ISSUED FOR PERMIT
02/10/26	ISSUED FOR AIR
03/03/26	PERMIT COMMENTS 1

T.E. OF WA, INC.
 930 N. RIVERSTIDE DRIVE
 SUITE 200
 LEES SUMMIT, MO 64062
 PHONE: 417-435-9700-9753
 FAX: 417-435-9700-3756

NEW WAREHOUSE
 LEES SUMMIT, MO



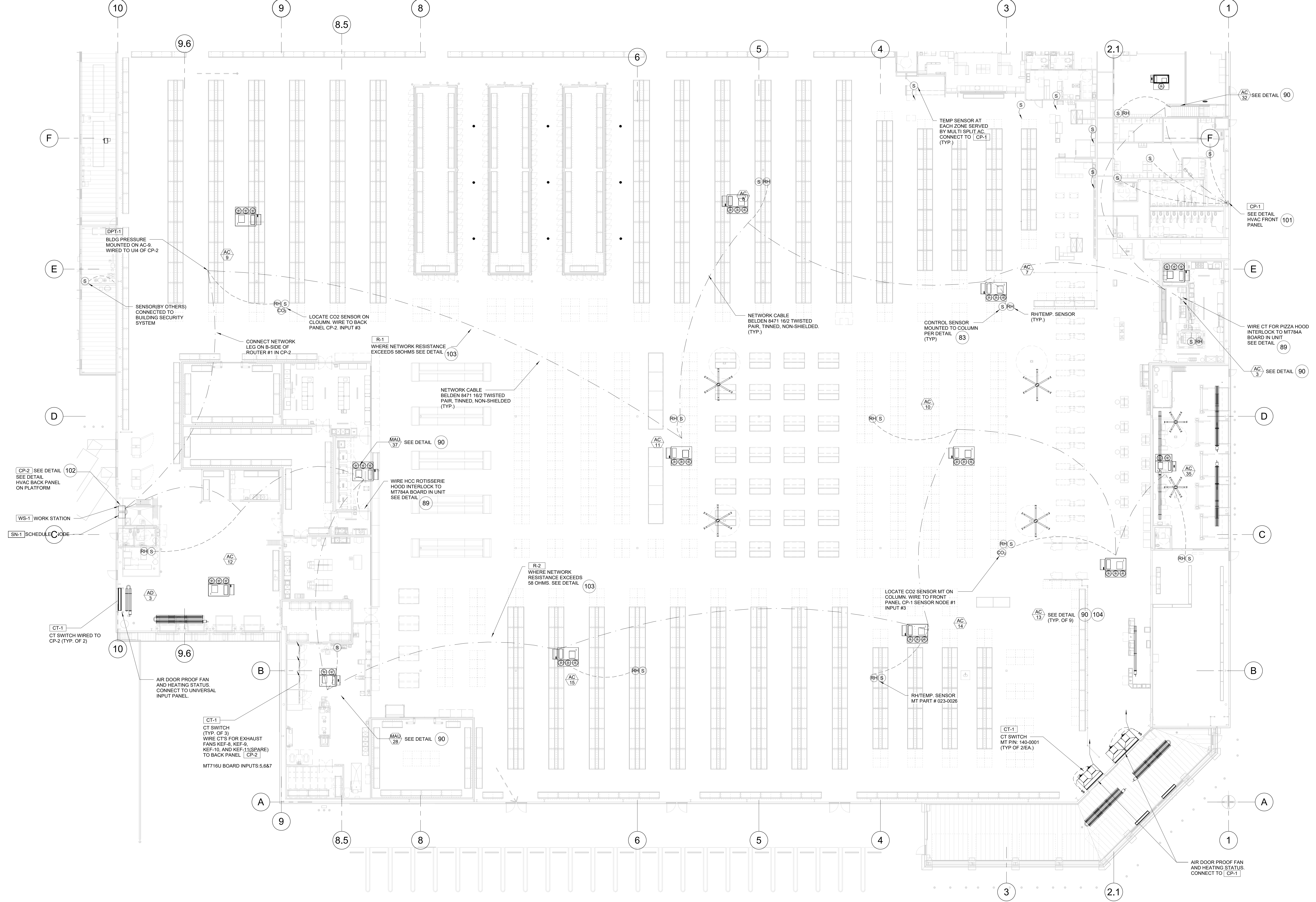
TEI #: 25-346
 PM: JRS
 CHECKED BY: PKR/ANT
 ISSUED: 06/04/24

FOOD SERVICE & FRESHLINE
 HVAC PLANS

M-2.2

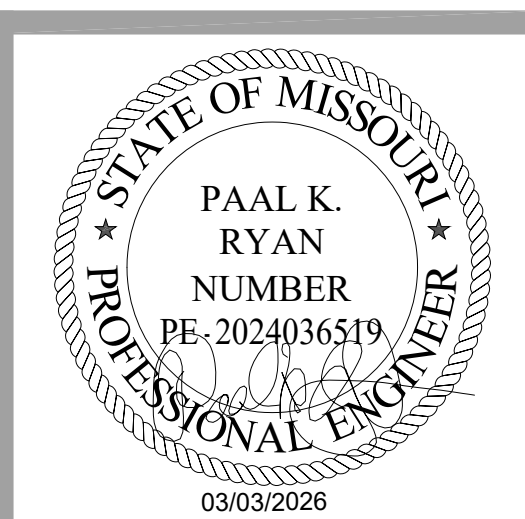
C:\Users\jseferian\Documents\346_MP_CENTRAL_2026_jseferian335XA.rvt

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HVAC CONTROLS NETWORK DIAGRAM
 SCALE: 1/16" = 1'-0"

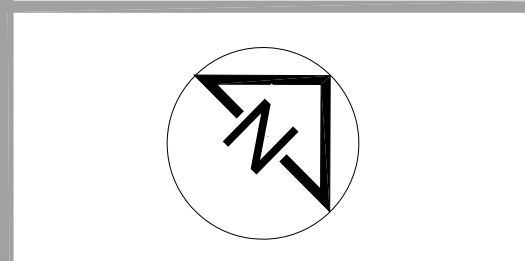
PERMIT COMMENTS



DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
02/22/26	ISSUED FOR PERMIT
02/10/26	BID ADDENDUM 1
03/03/26	PERMIT COMMENTS 1

T.E. OF WA, INC.
 930 N. RIVERVIEW DRIVE
 SUITE #200
 LEES SUMMIT, MO 64062
 PHONE: 417-970-9753
 FAX: 417-970-9756

NEW WAREHOUSE
 LEES SUMMIT, MO



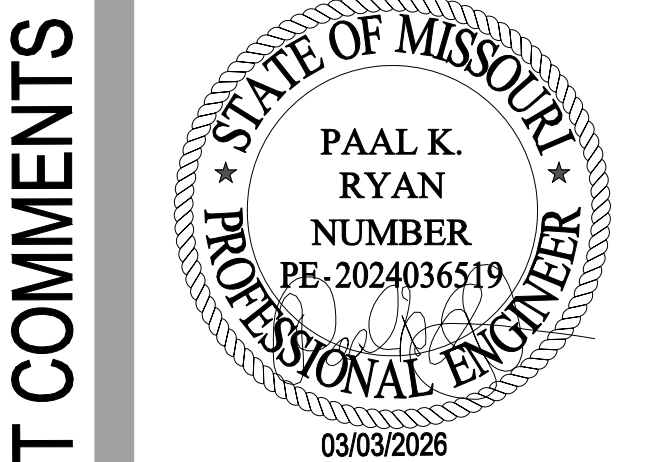
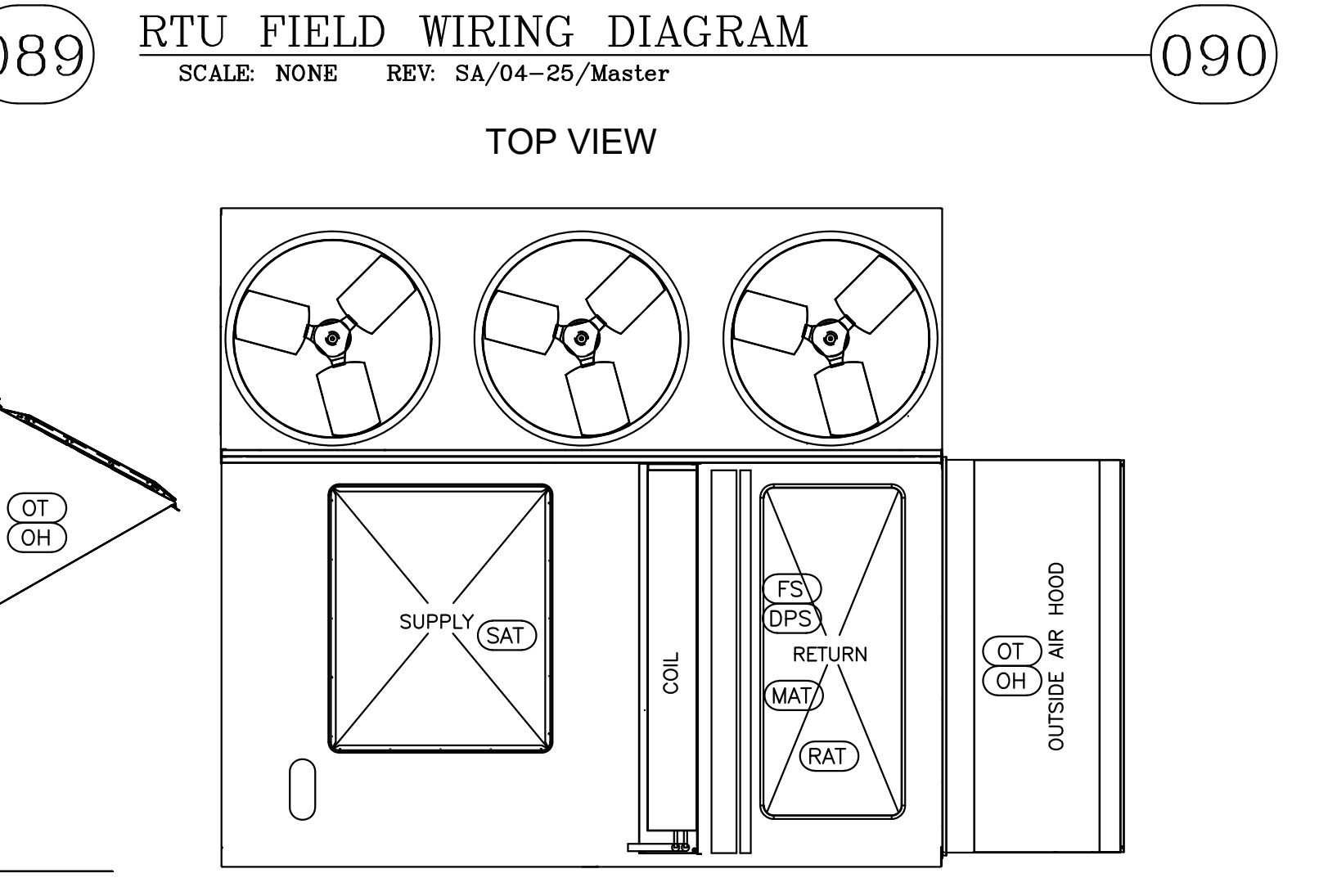
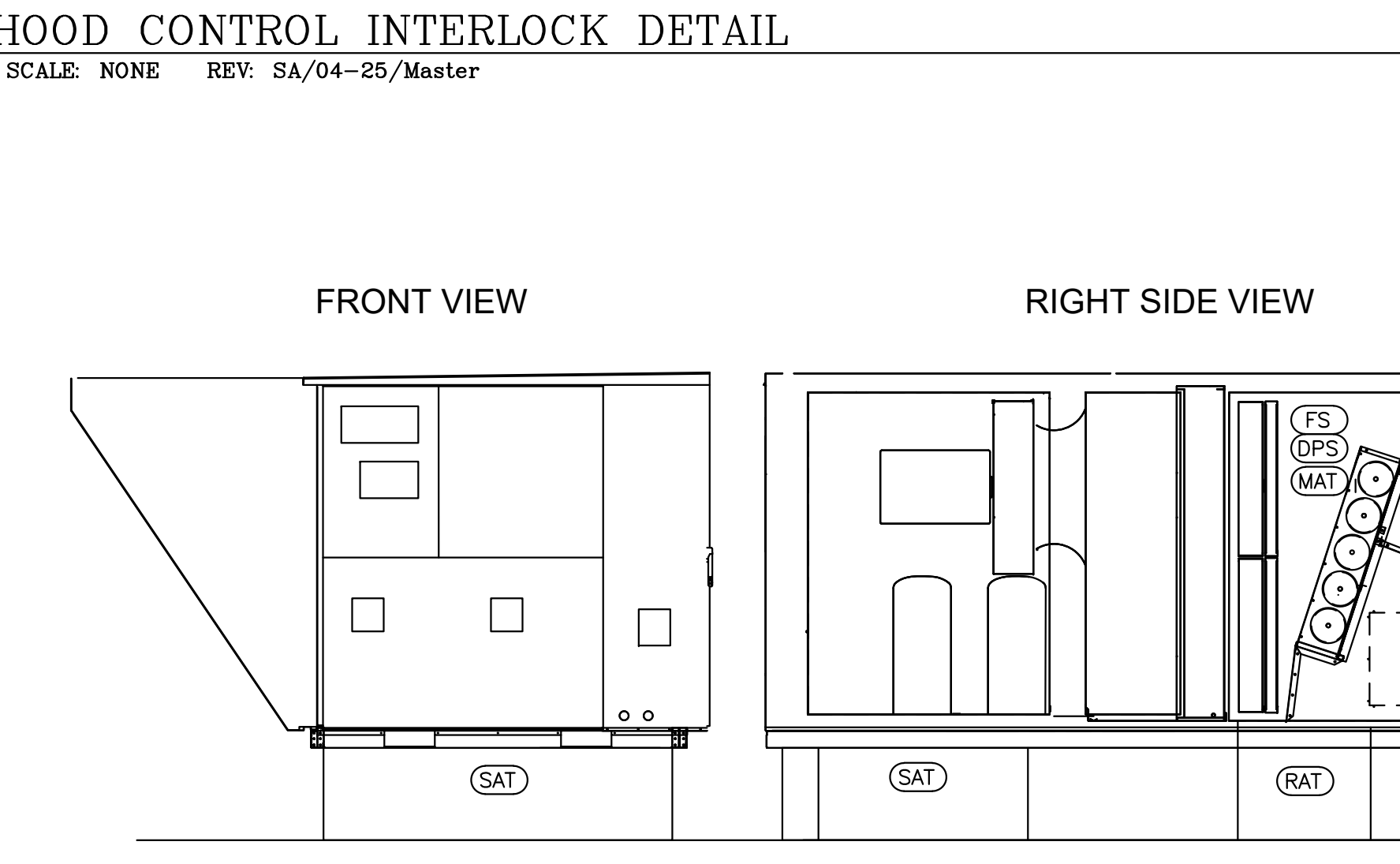
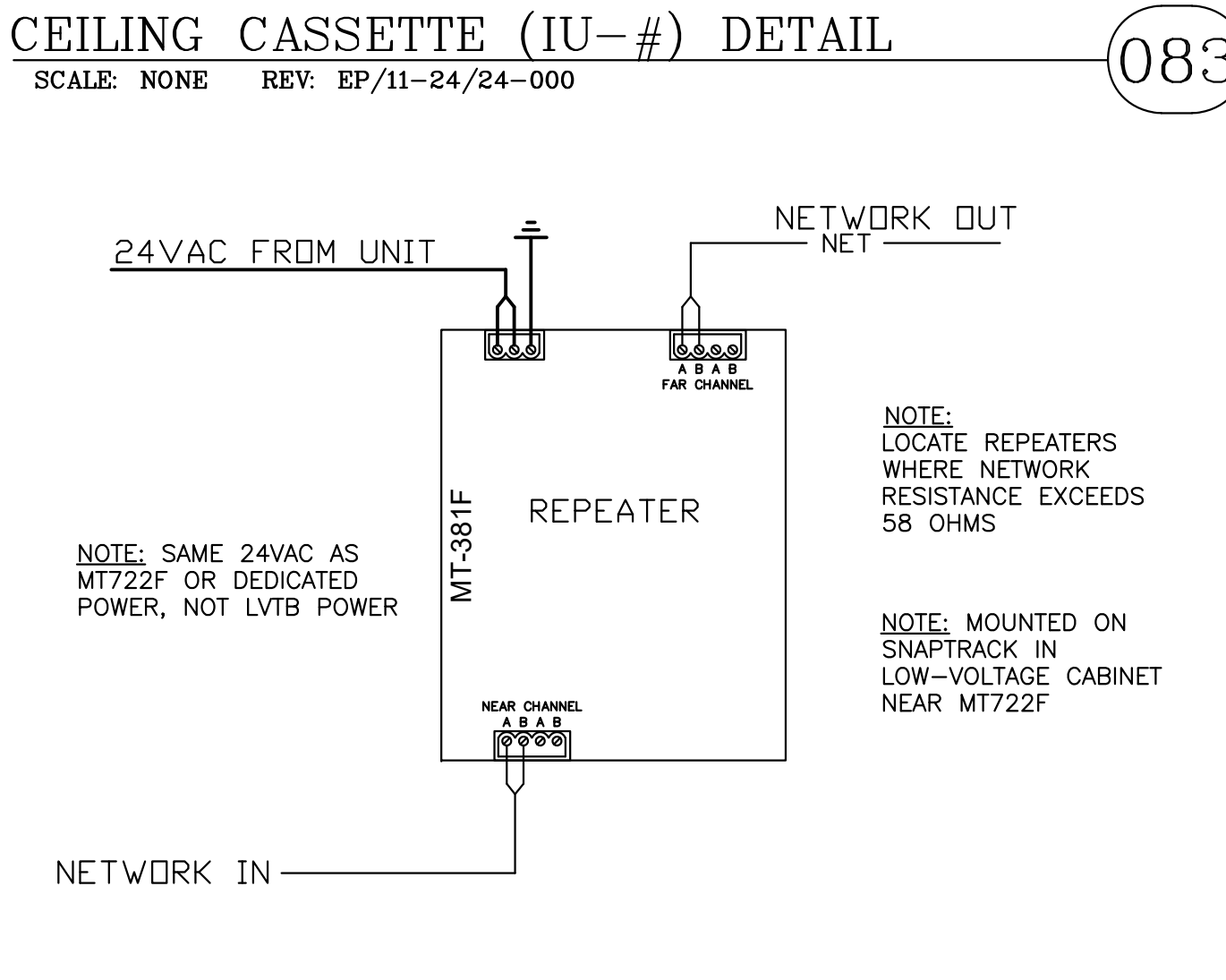
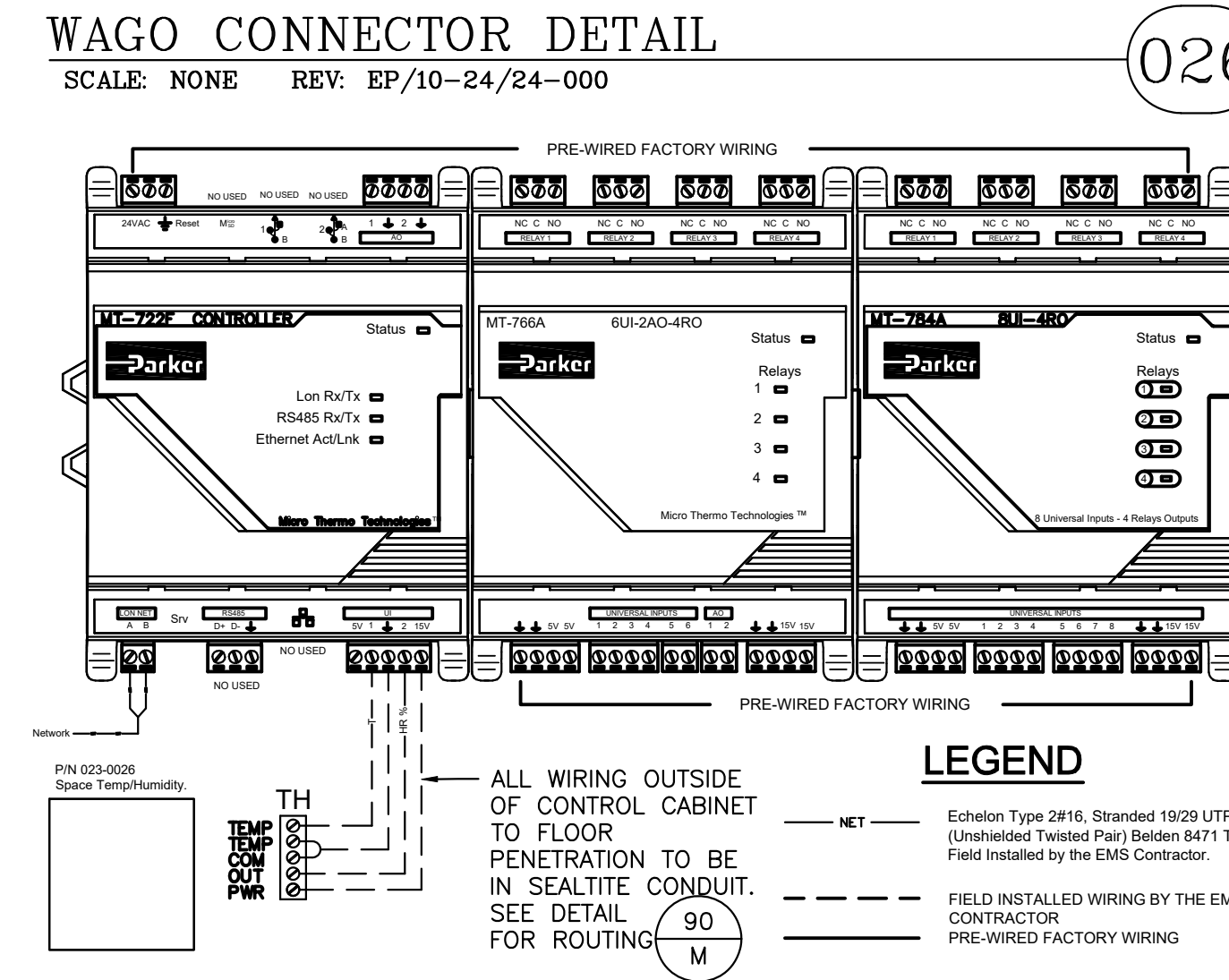
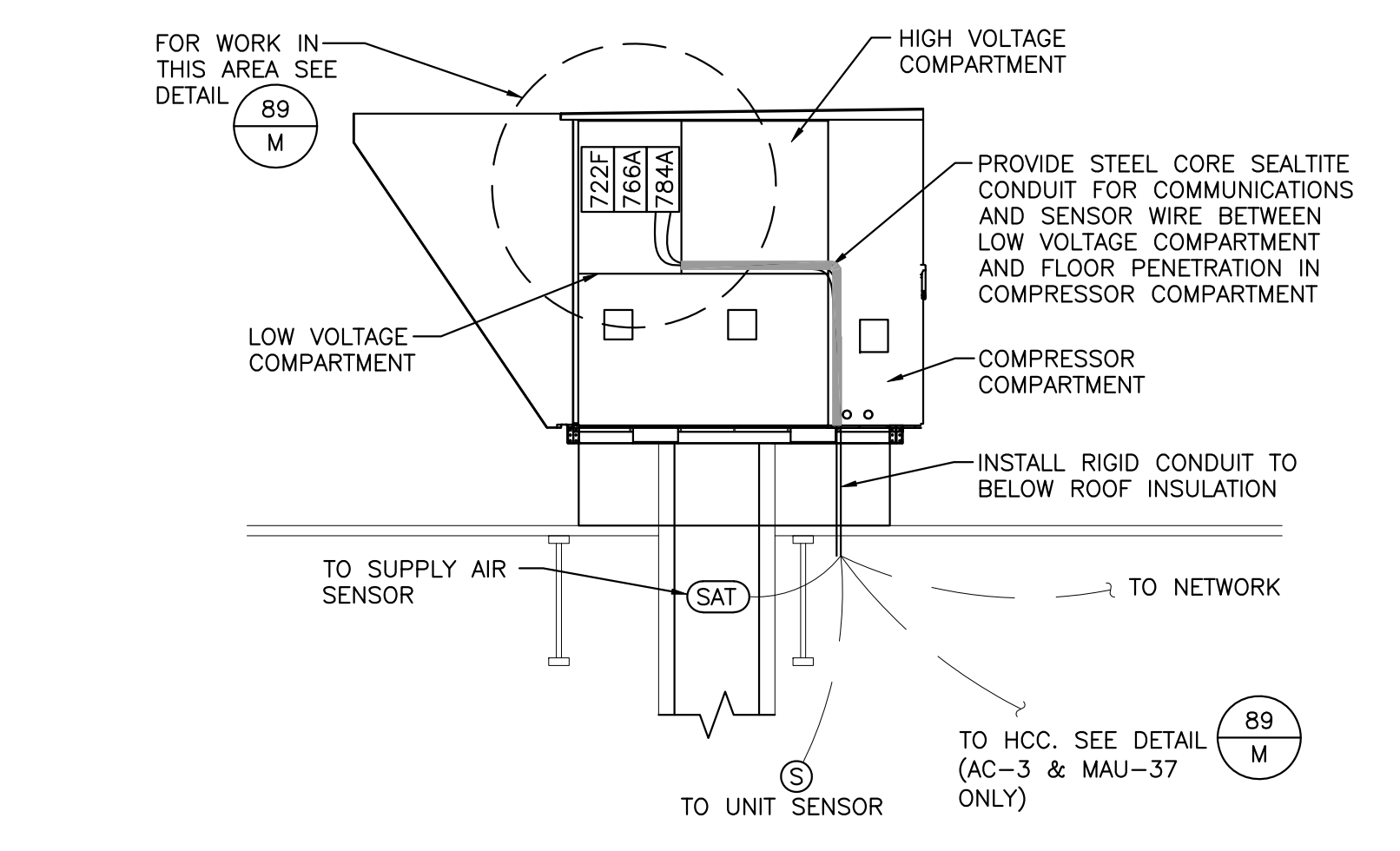
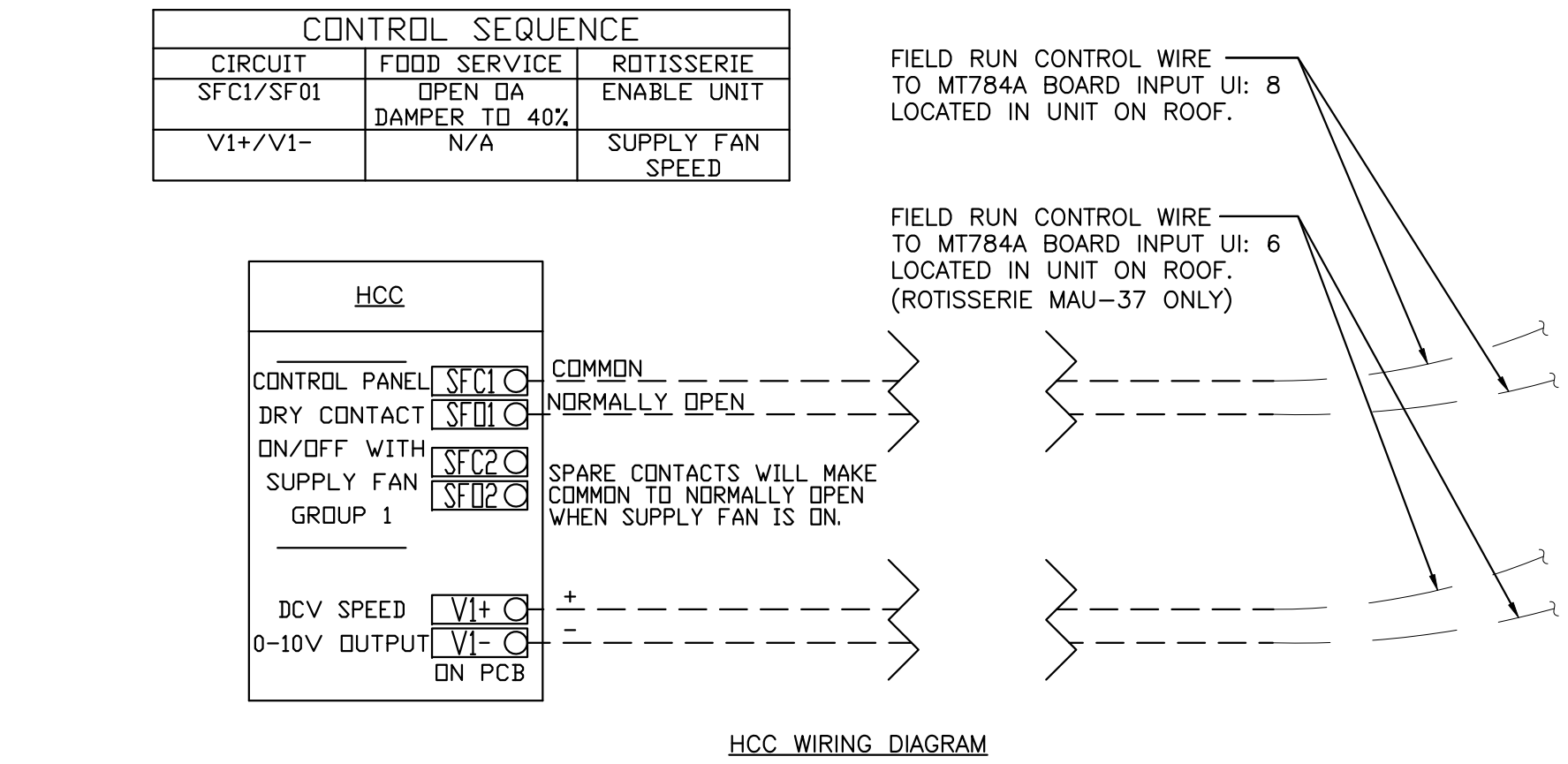
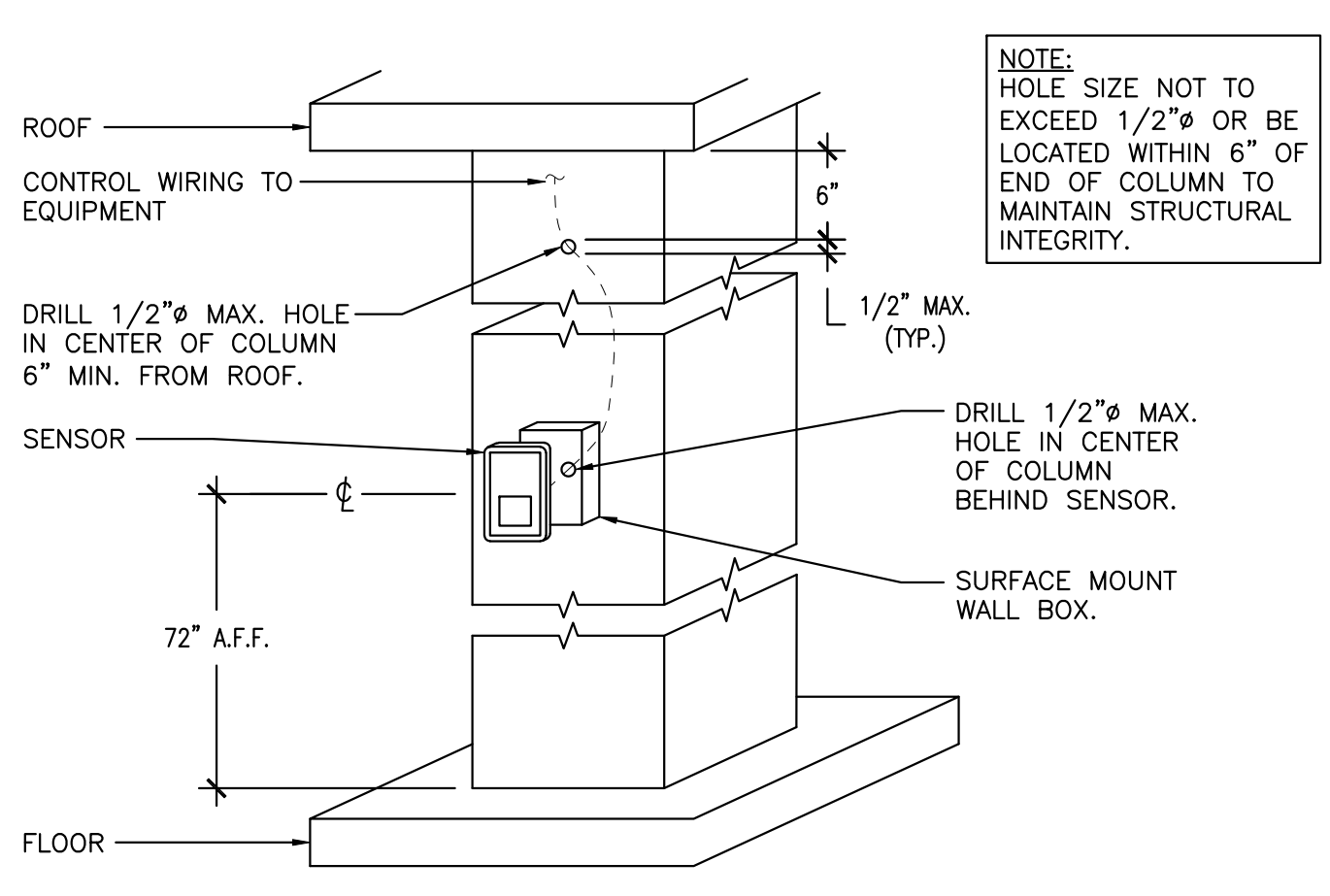
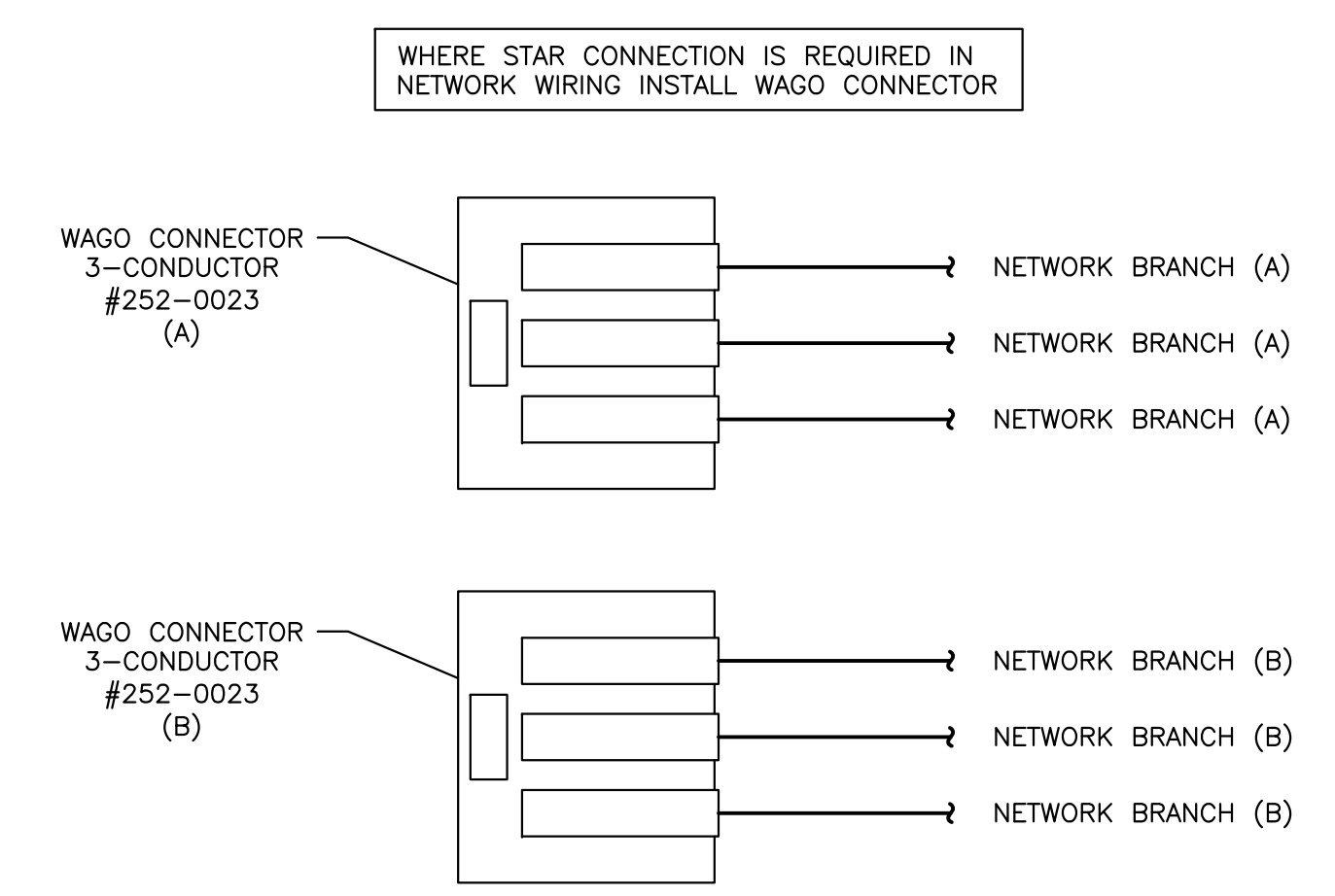
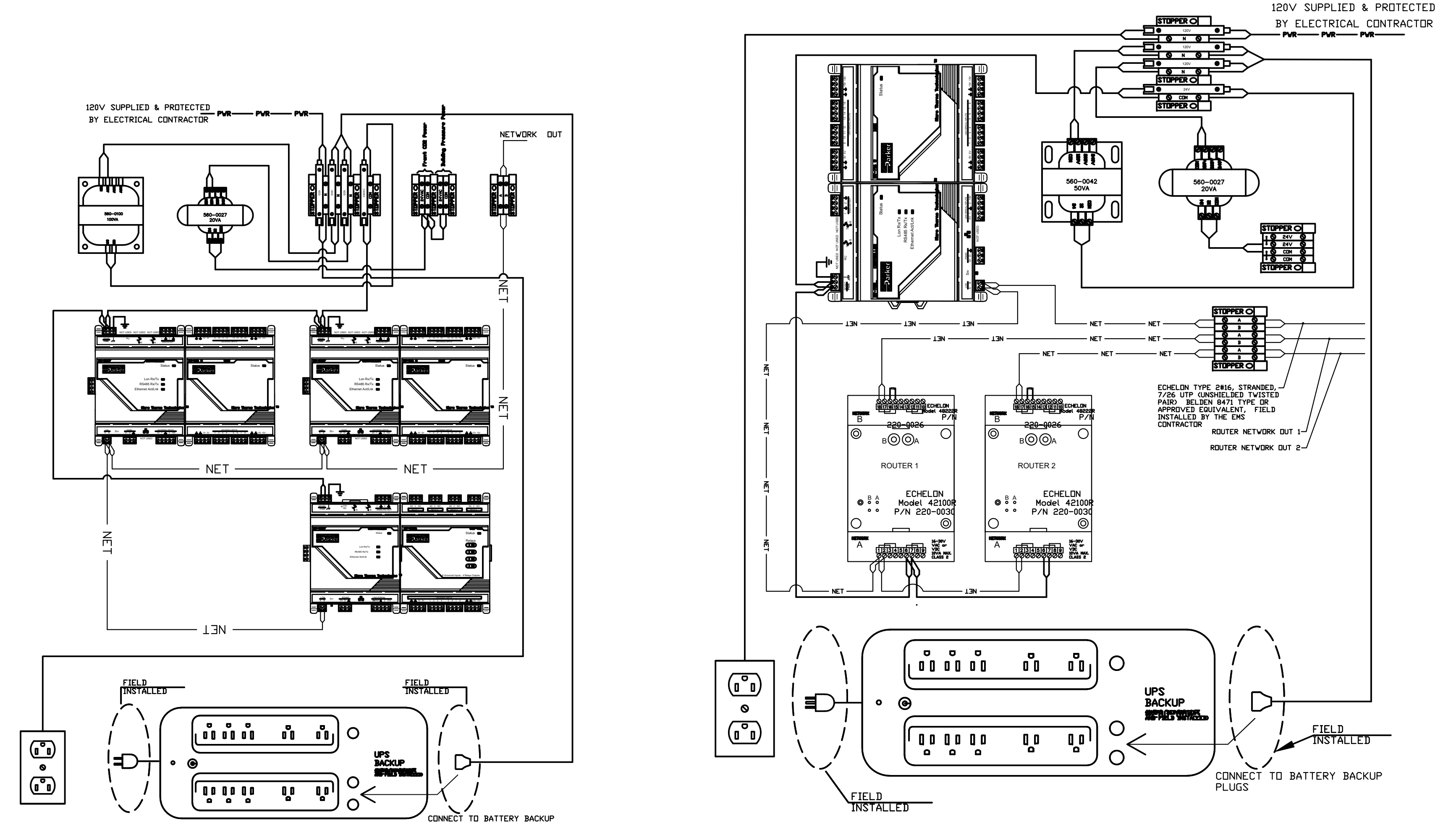
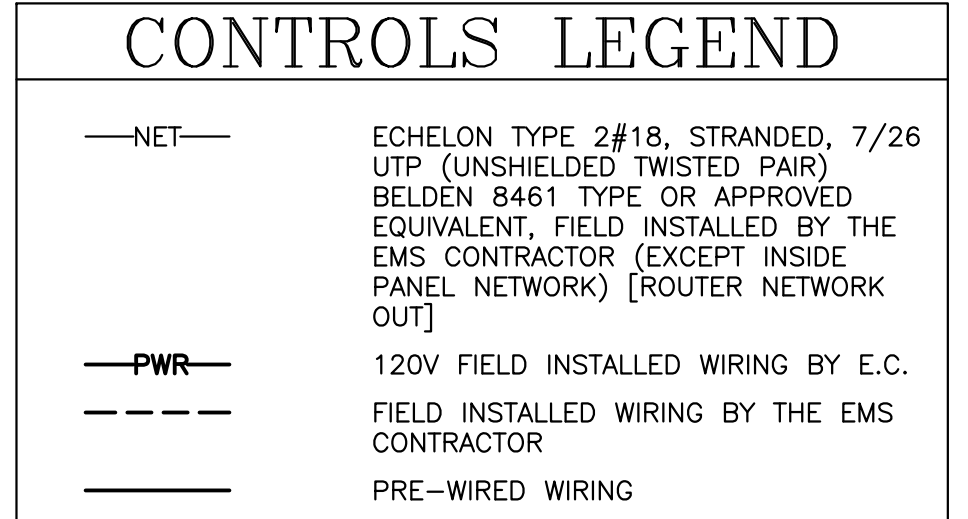
TEI #: 25-346
 PM: CWC
 CHECKED BY: PKR/ANT
 ISSUED: 02/03/21

HVAC CONTROL NETWORK

MR-1.1

HVAC CONTROLS SCHEDULE—S.O.I.R.C.									
SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	INSTALLATION
Ⓢ	ROOM TEMPERATURE SENSOR		MICROTHERMO 023-0327	ROOM TEMPERATURE SENSOR	24V	10#			FIELD
ⓈH	ROOM HUMIDITY AND TEMPERATURE SENSOR		MICROTHERMO 023-0026	ROOM HUMIDITY AND TEMPERATURE SENSOR	24V	10#			FIELD
ⓈH	OUTSIDE HUMIDITY AND TEMPERATURE SENSOR		MICROTHERMO 023-0031	OUTSIDE HUMIDITY AND TEMPERATURE SENSOR	24V	10#			FIELD
SAT	SUPPLY AIR TEMPERATURE SENSOR		AAON	SUPPLY AIR TEMPERATURE SENSOR	24V	10#			FIELD
RAT	RETURN AIR TEMPERATURE SENSOR		AAON	RETURN AIR TEMPERATURE SENSOR	24V	10#			FIELD
MAT	MIXED AIR TEMPERATURE SENSOR		AAON	MIXED AIR TEMPERATURE SENSOR	24V	10#			FACTORY
CO2	CO2 DETECTOR		MICROTHERMO 023-0475	CO2 DETECTOR	24V	10#		PROVIDE DEDICATED POWER SUPPLY, DO NOT POWER FROM SAME SOURCE AS MT 508 & MT 504	FIELD
FS (DPS)	AIR DIFFERENTIAL FLOW SWITCH		AAON	AIR DIFFERENTIAL FLOW SWITCH	24V	10#			FACTORY
CP-1	FRONT MONITORING PANEL		MICROTHERMO 963-0152	FRONT MONITORING PANEL	120V	50#			
CP-2	HVAC BACK PANEL		MICROTHERMO 963-0153	HVAC BACK PANEL	120V	50#			
WS-1	CABINET WORKSTATION		MICROTHERMO 251-0014	CABINET WORKSTATION DATA LOGGER KVM, KEYBOARD, MOUSE, SPEAKERS	24V	50#			
RB-1	ROUTER BASE		MICROTHERMO 220-0026	ROUTER BASE	24V	10#			
SN-1	SCHEDULER NODE		MICROTHERMO 950-3968	SCHEDULER NODE PIGGY BACK APPLIED TO ALARM BOARD	24V	10#		STACK ON TOP AND CONNECT TO ALARM BOARD. REMOVE ALARM BOARD POWER BEFORE CONNECTING	
R-1	REPEATER		MICROTHERMO 961-381F	REPEATER	24V	10#			
CT-1	CT SWITCH		MICROTHERMO 140-0001	CT SWITCH	24V	10#		USE FOR AIR DOOR FAN & HEAT PROOF IF AIR DOOR HAS ELECTRIC HEAT. IF GAS HEAT, THEN ONLY FAN PROOF. CT NOT NEEDED WHEN EQUIPMENT COMES WITH FACTORY DRY CONTACT CLOSURE FOR FAN AND/OR HEAT PROOF.	FIELD
DPT-1	DIFFERENTIAL PRESSURE TRANSMITTER		MICROTHERMO 023-0394	DIFFERENTIAL PRESSURE TRANSMITTER	24V	10#		PROVIDE DEDICATED POWER SUPPLY, DO NOT POWER FROM SAME SOURCE AS MT 508 & MT 504	FIELD

GENERAL NOTES
 - All equipment furnished by Costco, installed by RC
 - AC units provided with D.D.C. communications interface controlled by building management system by controls installer. sensor/t'stat S.I.O. sensors @ +72', t'stats at 48" A.F.F.



PERMIT COMMENTS

PROJECT STATUS: PERMIT COMMENTS 1

DATE DESCRIPTION

11/26/25 ISSUED FOR QA REVIEW

12/22/25 ISSUED FOR PERMIT

02/10/26 BID ADDENDUM 1

03/03/26 PERMIT COMMENTS 1

T.E. OF WA, INC.

930 N. RIVERSIDE DRIVE
 SUITE #200
 LEES SUMMIT, MO 64087
 PHONE: 485-870-5753
 FAX: 485-870-5756

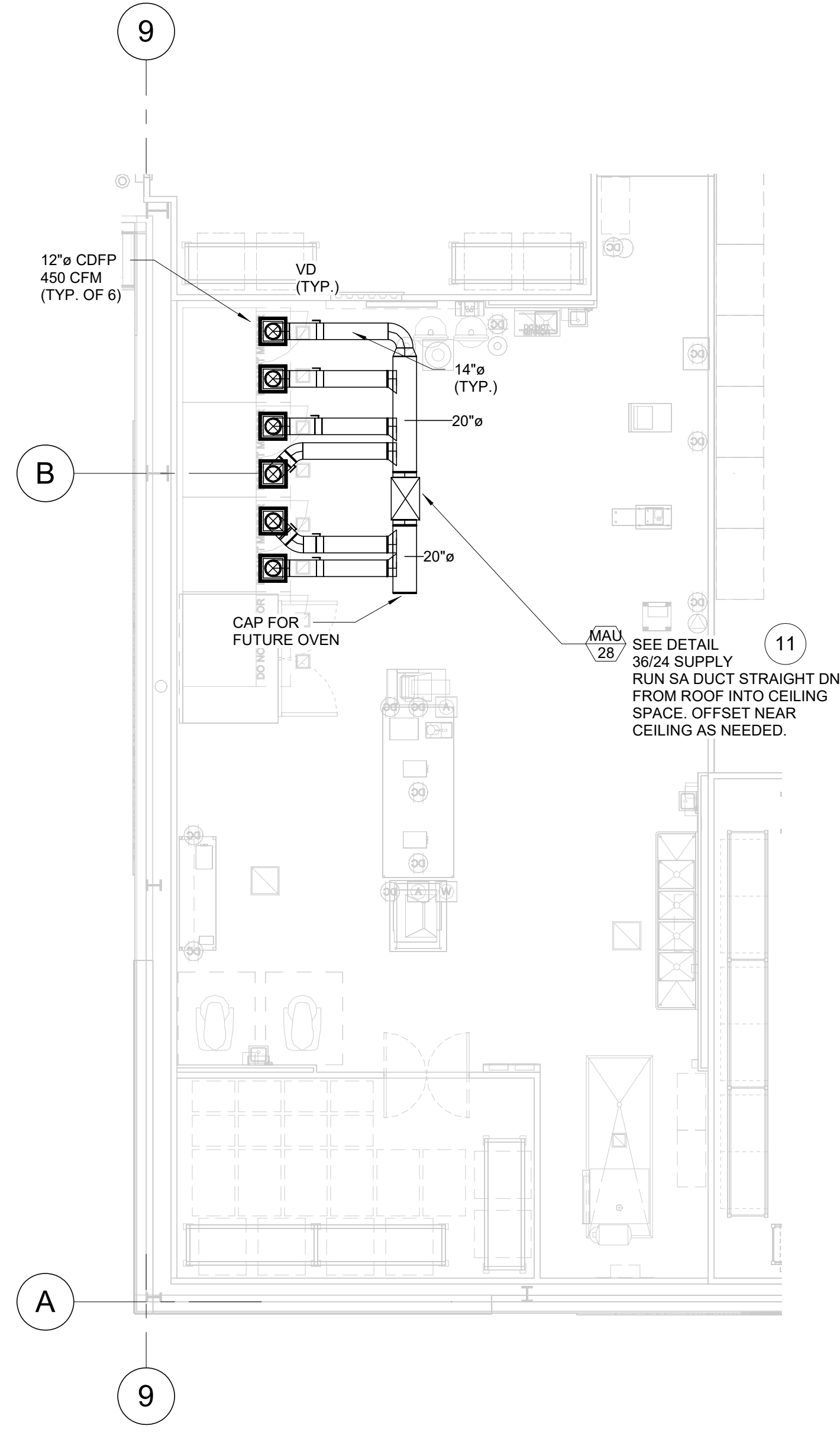
NEW WAREHOUSE
 LEES SUMMIT, MO

COSTCO WHOLESALE

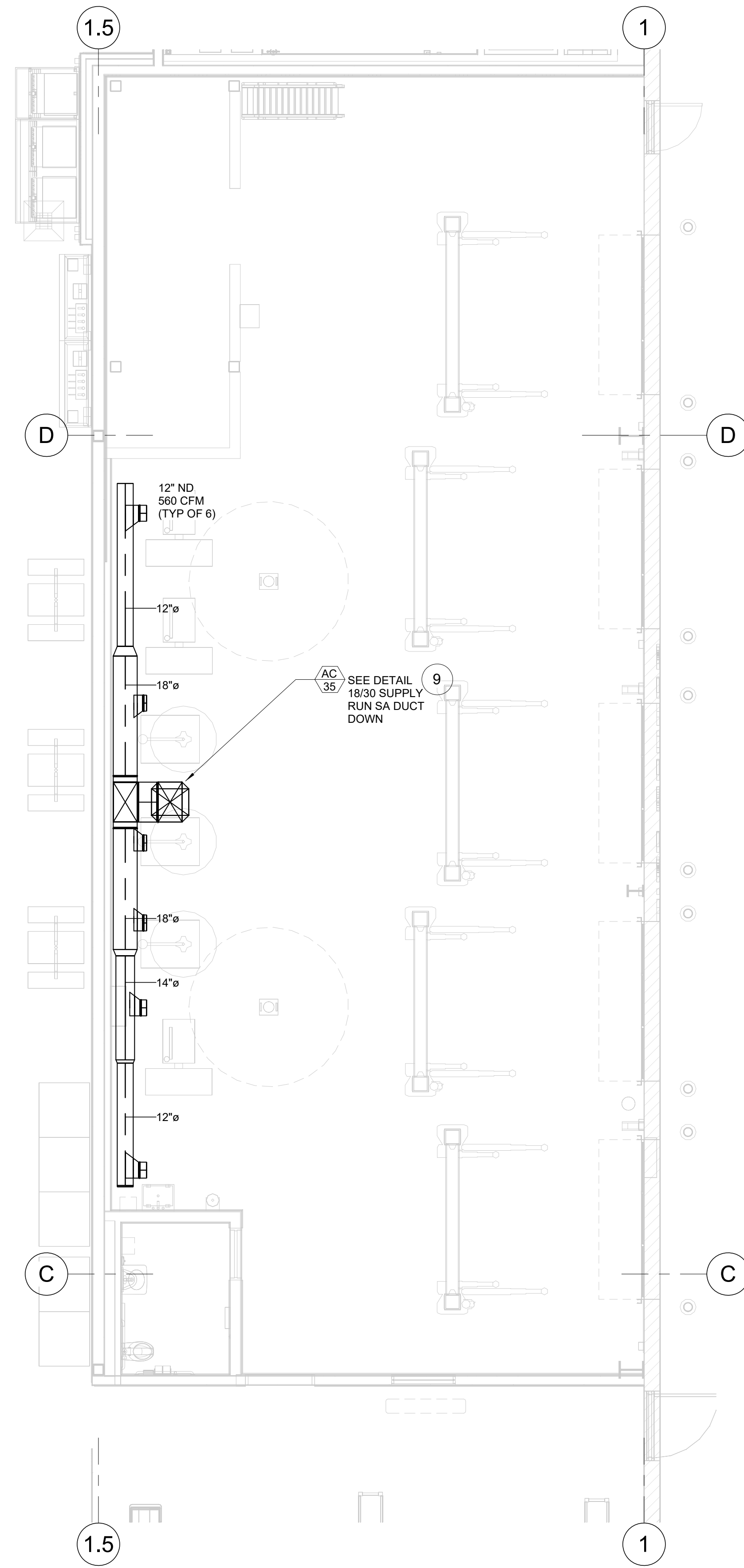
TEI #: 25-346
 PM: JAR
 CHECKED BY: PKR/ANT
 ISSUED: 1/12/23

HVAC CONTROLS, SCHEDULE, & DETAILS

MR-1.2



FRESH LINE HVAC PLAN(R.C.SCOPE)
SCALE: 1/8" = 1'-0"



TIRE INSTALL HVAC PLAN(RC SCOPE)
SCALE: 3/16" = 1'-0"

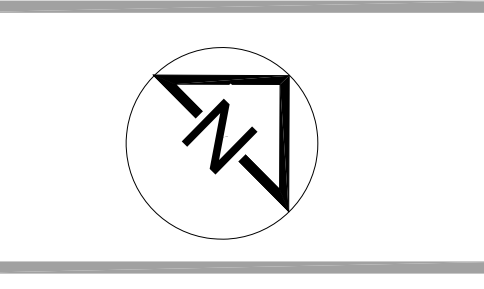
PERMIT COMMENTS



DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/22/25	ISSUED FOR PERMIT
02/10/26	ISSUED FOR BID
03/03/26	BID ADDENDUM 1
03/03/26	PERMIT COMMENTS 1

T.E. OF WA, INC.
 930 N. RIVERSIDE DRIVE
 SUITE #200
 LEES SUMMIT, MO 64062
 PHONE: 417-497-4753
 FAX: 417-497-3756

NEW WAREHOUSE
 LEES SUMMIT, MO



TEI #: 25-346
 PM: Author
 CHECKED BY: Checker
 ISSUED: 01/11/23

ENLARGED MECHANICAL
 PLANS(RC SCOPE)

MR-2.2

PLUMBING PLAN INDEX	DETAIL INDEX
P-0.1 PLUMBING LEGEND, INDEX, & GENERAL NOTES	1,3,4,5,9
P-0.2 PLUMBING SCHEDULES	64,111
P-1.1 UTILITY/UNDERGROUND PLUMBING PLAN	
P-1.2 MAIN PLUMBING PLAN	
P-1.3 GAS PIPING PLAN, GAS CALCULATIONS	67,68,69,70,71,72,73
P-1.4 GUTTER SNOW MELT PLAN	
P-2.1 FRONT END WASTE & DRAIN PLANS	
P-2.2 FRESH LINE WASTE & DRAIN PLANS	
P-3.1 FRONT END PLUMBING PLAN	51
P-3.2 TIRE AIR PIPING & FRESH LINE PLUMBING PLAN	
P-4.1 PLUMBING DETAILS	2,6,7,8,11,12,13,14,15,16,17,18,19,20,21,22,24,25
P-4.2 PLUMBING DETAILS	26,27,28,29,30,31,32,33,34,36,37,38,43,44,46,47,77
P-4.3 PLUMBING DETAILS	10,39,40,41,42,45,49,50,60,62,75,79,80,82,84,85,88,90,112
P-5.1 VENT RISER DIAGRAMS	NONE

PIPING SYSTEMS	UTILITY NOTES
1. APPLICABLE PLUMBING CODE: 2018 IPC	1. DESIGN FROST DEPTH: 3'-6" BELOW GRADE REQUIRED MINIMUM BURY DEPTH FOR ALL PIPING EXTERIOR TO BUILDING.
2. ALL WASTE PIPING, CONDENSATE PIPING & STORM DRAIN PIPING TO BE SLOPED AT 2% MINIMUM UNLESS OTHERWISE NOTED.	2. VERIFY & COORDINATE WITH SITE UTILITY DRAWING ALL STUB-OUT LOCATIONS AND INVERT ELEVATIONS BEFORE STARTING CONSTRUCTION. FINISHED FLOOR ELEVATION REFERENCE = 0.00' FINAL CONNECTIONS SHALL BE MADE BY THE M.C. ANY OFFSETS REQUIRED SHALL BE DONE AT THE MECHANICAL CONTRACTOR'S EXPENSE.
3. LOCATE ALL FLOOR CLEAN OUTS OUTSIDE OF FORKLIFT DRIVE AISLE (UNDER RACKING OR WITHIN 18" OF WALL). FOR SALES FLOOR WASTE LINES SEE 2/P FOR CLEAN OUT OFFSET.	3. STUB-OUT S.D. 5'-0" FROM BUILDING OR CANOPY BELOW FROST LINE AND MINIMUM 12" BELOW FOOTING. STUB OUT FOR S.D. LOCATED DIRECTLY BELOW ROOF DRAIN WITH NO HORIZONTAL OFFSET ALLOWED. SEE ARCHITECTURAL SHEET FOR S.D. DIMENSIONS. VERIFY DEPTH OF ALL CONNECTIONS ON CIVIL PLAN PRIOR TO INSTALLATION. SECURE RAIN LEADER TO BUILDING. SEE DETAIL 7/P.
4. SURFACE MOUNTED PIPING WILL NOT BE ACCEPTABLE IN FINISHED ROOMS OR COOLERS. PIPING AND CONDUIT OF ALL TYPES SHALL BE CONCEALED WITHIN WALLS, FLOORS, CEILING (INCLUDING CONDENSATE DRAIN LINES, WATER HEATER PRESSURE RELIEF LINES AND SODA LINES).	4. 3" COLD WATER SERVICE. 2" METER LOCATED OUTSIDE BLDG. BY CIVIL. BACKFLOW DEVICE LOCATED INSIDE OF BLDG.
5. INSULATE ALL INTERIOR PIPING: STORM DRAIN, HOT, COLD, RECIRC. AND CONDENSATE PER SPECIFICATION SECTION 22 07 00.	
6. ALL OVERHEAD PIPING TO BE LOCATED WITHIN ROOF TRUSS SPACE. RUN PERPENDICULAR OR PARALLEL TO BUILDING JOIST OR GIRDERS. FOR PASSING BELOW SOLID GIRDERS MOUNT PIPING 6" MAXIMUM FROM BOTTOM OF GIRDER. DO NOT BLOCK LIGHTS & SKYLIGHTS.	
7. PROVIDE TIE DOWN FOR ALL PIPES & VENTS OF 3" OR TALLER. SEE DETAIL 23/M. PAINT ALL METAL & PVC PIPING EXPOSED TO WEATHER PER SPEC SECTION 099100.	
8. PROVIDE NON CORRUGATED FLEXIBLE GAS CONNECTORS TO ALL INTERIOR GAS FIRED EQUIPMENT PER SPECIFICATION.	
9. CORROSIVE SOIL. ALL UNDERGROUND METAL PIPE TO BE COATED OR WRAPPED OR SUBSTITUTE PLASTIC PIPE PER SPEC IF ALLOWED BY LOCAL AUTHORITY. ALL GREASE WASTE PIPING (GW) TO BE CAST IRON PER SPEC.	

DOMESTIC WATER
1. RUN ALL PIPING IN TRUSS SPACE, EXCEPT WHERE COVERED BY EQUIPMENT PLATFORM OR LOCATED IN CEILING SPACE AT FRAMED ANCILLARY AREAS.
2. PROVIDE ALL HAND SINKS WITH THERMOSTATIC MIXING VALVE LOCATED BELOW SINK TO REDUCE WATER TEMPERATURE TO 110°F.
3. ALL NON-HAND WASHING SINKS ARE SERVED BY 140°F HOT WATER. POST WARNING SIGNS READING "CAUTION! 140°F HOT WATER".
4. HW STOP TO ROUGH IN ON LEFT, CW STOP TO ROUGH IN ON RIGHT. PROVIDE AIR CHAMBER PER DETAIL 9/P.
5. RUN ALL PIPING IN JANITOR ROOM FOR WATER HEATER, WATER SOFTENER & WATER HEADER TIGHT TO WALL. LOCATE WATER HEADER WITHIN 3" OF WALL.
6. DO NOT RUN PLUMBING ABOVE ELECTRICAL ROOM OR PLATFORM. RUN PIPING WITHIN WALLS OR ABOVE JANITOR ROOM.
7. COORDINATE WITH G.C. FOR INSULATION REQUIREMENTS AT EXTERIOR WALLS FOR AREAS ADJACENT TO PLUMBING LINES.
8. PROVIDE THRUST BLOCKS ON ALL MAINS AND OTHER PIPING TO LIMIT MOVEMENT TO NO GREATER THAN ONE INCH. SEE DETAIL 10/P.

TANK/VESSEL PERMIT SCHEDULE

TANK/VESSEL	LOCATION	MEDIA	MAX. PRESSURE	INSTALLER
TIRE AIR COMPRESSOR	TIRE INSTALL	COMPRESSED AIR	175 PSI	M.C.
HOT WATER STORAGE FRONT	JANITOR ROOM	HOT WATER	150 PSI	M.C.
CO2	FOOD SERVICE	LIQUID CO2	1200 PSI	COSTCO VENDOR
NITROGEN	TIRE INSTALL	COMPRESSED N2	175 PSI	M.C.
BAKERY AIR COMPRESSOR	MECHANICAL ROOM	COMPRESSED AIR	175 PSI	M.C.
CHILLED WATER TANK	MECHANICAL ROOM	CHILLED WATER	150 PSI	M.C.
HEAT RECOVERY	MECHANICAL ROOM	HOT WATER	150 PSI	M.C.
HOT WATER STORAGE FRESHLINE	MECHANICAL ROOM	HOT WATER	150 PSI	M.C.
EVAC DRAINAGE TANK	MECHANICAL ROOM	CONDENSATE	ATMOSPHERIC	COSTCO VENDOR
GREASE RECOVERY	RECEIVING	CHICKEN GREASE	ATMOSPHERIC	M.C.

THE ABOVE IS A LIST OF TANKS AND VESSELS ASSOCIATED WITH A COSTCO. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS AND/OR CERTIFICATIONS ASSOCIATED WITH THESE ITEMS. G.C. SHALL VERIFY THAT ALL PERMITS AND/OR CERTIFICATIONS HAVE BEEN ACQUIRED.

DOMESTIC WATER FIXTURE UNITS

AREA	FIXTURE	NUMBER	WASTE FIXTURE UNITS	WATER FIXTURE UNITS	TOTAL WASTE UNITS	TOTAL WATER UNITS
PHARMACY	PLS	1	3	1	3	1
HEARING	HES	1	2	1	2	1
OPTICAL	OS	4	4	1	4	1
BREAK ROOMS	B	1	3	2	3	2
PUBLIC WC	WC	11	4	5	44	55
RESTROOM	U	4	2	4	8	16
LAV	LAV	9	1	1	18	9
DF	DF	2	1	0.5	2	1
MOP SINK(MS-2)	M	1	3	3	3	3
HB(JANITOR)	H	1	0	2.5	0	2.5
D-5	D	4	2	0	8	0
			SUBTOTAL		107	94.5
FOOD SERVICE	HS(F-4)	3	2	1	6	3
	3-COMP(F-5)	1	8	8	8	8
	1-COMP(F-6)	1	3	2	3	2
	STEAM TABLE(F-7)	1	3	3	3	3
	MOP SINK(MS-2)	1	3	3	3	3
	D-1	6	1	0	6	0
	HB-1(EXTERIOR)	1	0	2.5	0	2.5
	DETERGENT(HB-2)	1	0	2.5	0	2.5
			SUBTOTAL		29	23
TIRE CENTER	HB-4	1	0	2.5	0	2.5
	WC	1	4	5	4	5
	LAV	1	1	1	2	1
	SS	1	0	3	0	3
	D-4(SODA)	1	0	3	0	3
	D-5	1	2	0	2	0
			SUBTOTAL		14	11.5
DEMO/STORAGE	3-COMP(E-18)	1	4	3	4	3
	HS(E-1)	1	1	0	1	1
	D-5	1	0	2	0	0
	3-COMP(E-23)	1	2	1	2	1
ROTTISSERIE	1-COMP(E-16)	1	3	3	3	3
	SKEWER(E-27)	1	3	3	3	3
	2-COMP(E-28)	1	3	3	3	3
	HB(E-10)	2	0	2.5	0	2.5
	HS(E-1)	4	0	2	0	2
	DETERGENT(HB-2)	1	0	2.5	0	2.5
	OVEN	4	1	1	4	4
	TD-25	1	3	0	3	0
	TD-5	4	6	0	24	0
			SUBTOTAL		64	39.5
MEAT & BAKERY	4-COMP(E-22)	1	8	4	8	4
	3-COMP(E-23)	1	1	6	3	6
	2-COMP(E-28)	1	1	3	3	3
	1-COMP(E-15)	1	3	3	3	3
	HS(E-1)	5	0	1	10	9
	HB(E-10)	2	0	2.5	0	2.5
	HB-1(EXTERIOR)	1	0	2.5	0	2.5
	METER(E-5)	1	0	2	0	2
	PAN WASHER(D-6)	1	0	6	0	6
	OVEN	4	1	1	4	4
	D-1	3	1	0	3	0
	TD-5	3	6	0	18	0
			SUBTOTAL		64	39.5
RECEIVING	WC	1	4	5	4	5
	LAV-2	2	2	0.5	2	1
	DF	1	2	0	2	0
	D-5	1	2	0	2	0
	D-1	1	1	0	1	0
	D-4 (ICE MACHINE)	1	4	2	1	2
	EW-1	1	1	2	1	2
			SUBTOTAL		15	9
SCRUBBER	MS-2	1	3	3	3	3
	HB-2	2	3	2.5	0	2.5
	HB-1(EXTERIOR)	1	0	2.5	0	2.5
	D-6	1	4	0	12	0
	D-4	1	4	0	12	0
	EVAC(D-11)	1	8	4	8	4
			SUBTOTAL		31	14.5
MAIN SALES	HB	3	0	2.5	0	7.5
			SUBTOTAL		0	7.5
TOTAL					324	235

DOMESTIC WATER PIPE SIZING

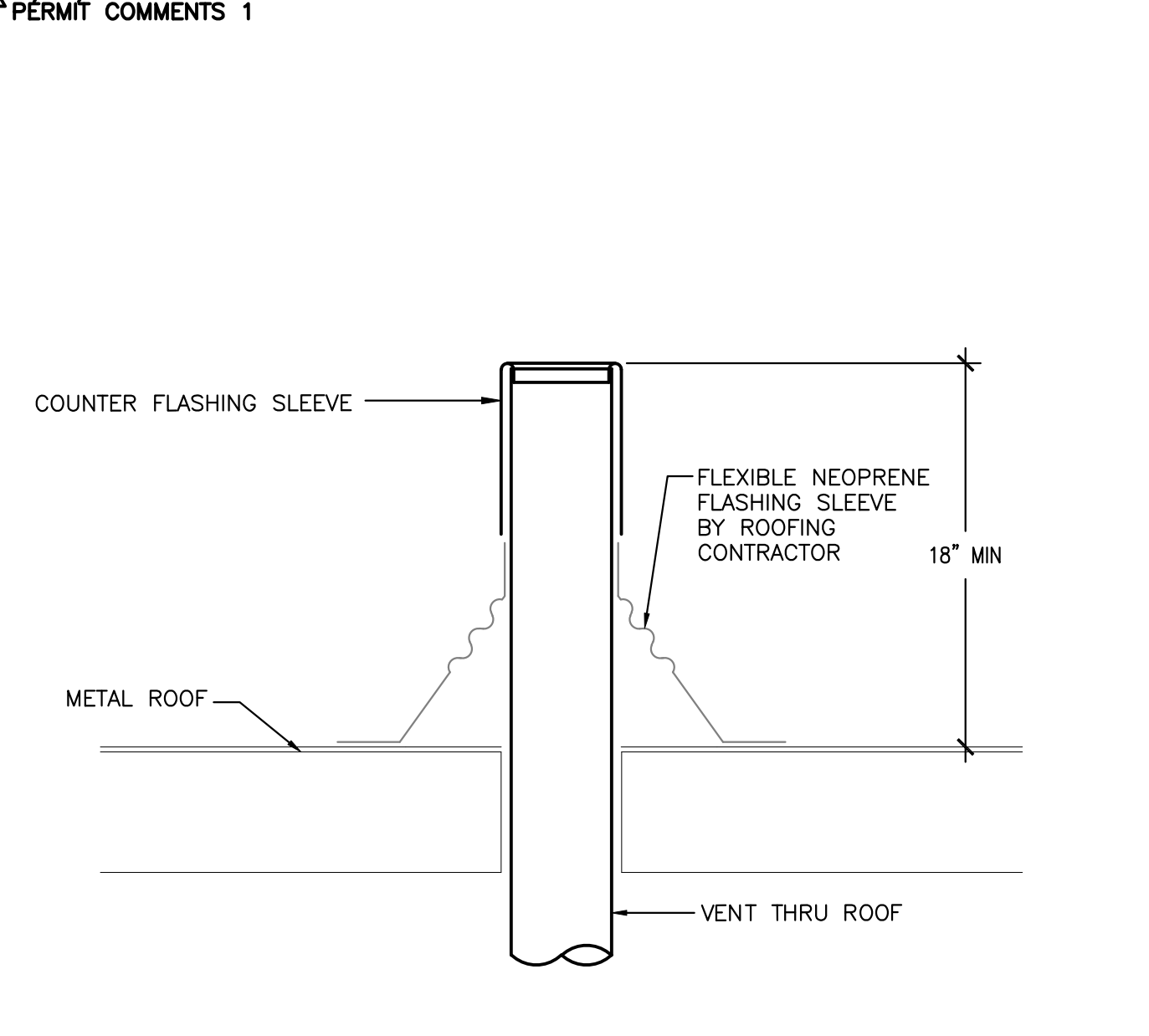
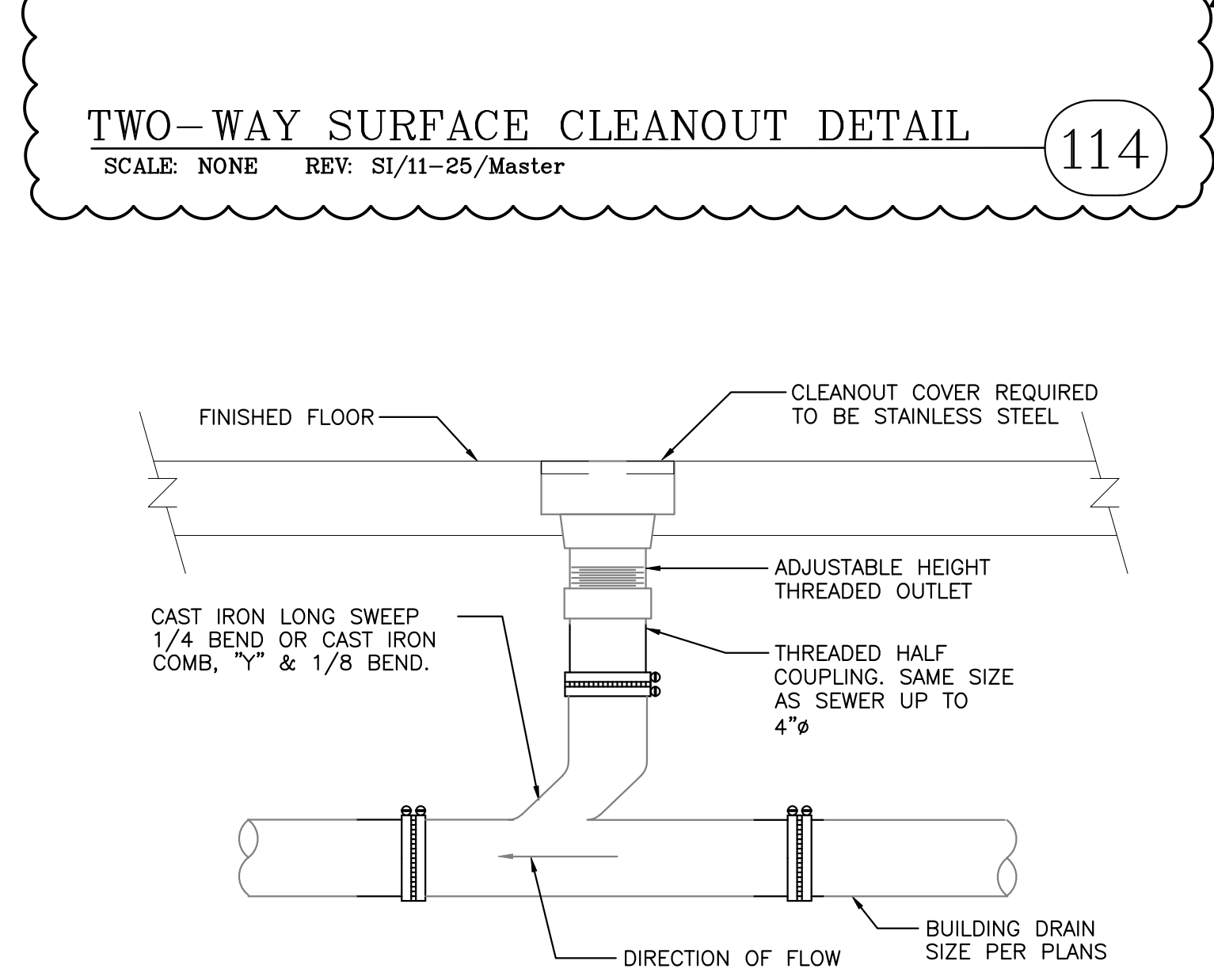
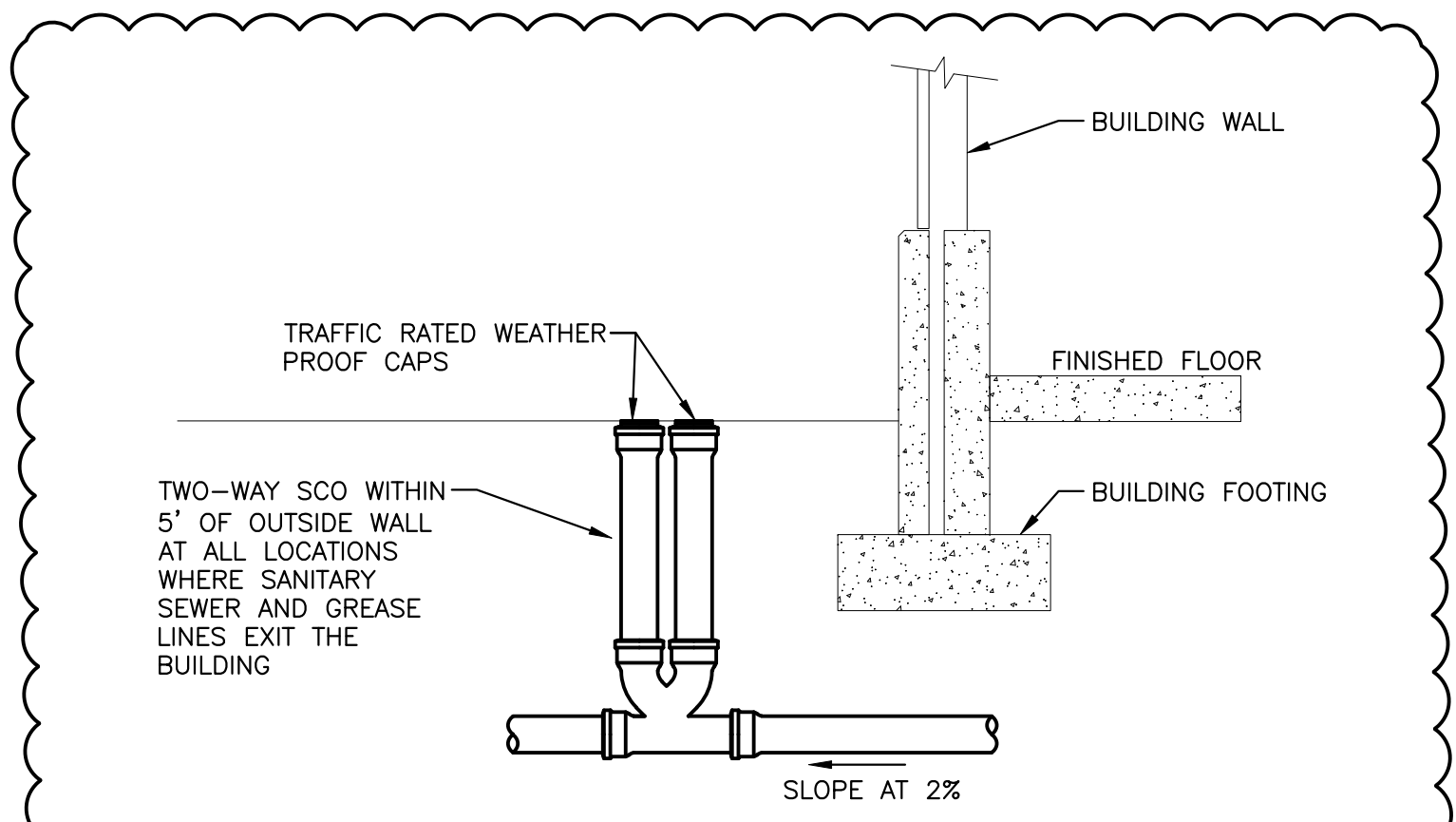
WATER VOLUME REQUIRED 98 GPM
 WATER USAGE PER DAY (EXPECTED X 125%) 11589 GPD
 AVAILABLE PRESSURE AT MAIN 70.00 PSI
 PRESSURE LOSS DUE TO ELEVATION FROM STREET -1.29 PSI
 WATER METER PRESSURE LOSS (2 METER FROM CHART A-1) -6.00 PSI
 SERVICE TO BUILDING LOSS (100 FT) -1.25 PSI
 BACKFLOW PREVENTOR LOSS (3 SIZE) -12.00 PSI
 PRESSURE LOSS THRU WATER SOFTENER -15.00 PSI
 BOOSTER PUMP LOW SUCTION PRESSURE 34.46 PSI
 BOOSTER PUMP PRESSURE BOOST 5.00 PSI
 SYSTEM PRESSURE 39.46 PSI
 LAST FIXTURE PRESSURE (RESIDUAL PRESSURE) -25.00 PSI
 HEIGHT PRESSURE LOSS @ 4 FT A.F.F. -1.72 PSI
 PRESSURE AVAILABLE FOR FRICTION LOSS 12.74 PSI

PRESSURE LOSS AVAILABLE PER 100 FT (BASED ON 600 FT EQUIVALENT LENGTH FAIRLY SMOOTH COPPER PIPE) 2.12 PSI/100'

WATER PRESSURE INFORMATION PROVIDE BY M62 Start-up 10/31/25

AVERAGE WATER HARDNESS AT LOCATION (GRAINS/GALLON) 7.20
 CHLORIDE LEVEL (PPM) 23.00
 TOTAL DISSOLVED SOLIDS (PPM) 10.00

PIPE SIZE	FLOW (GPM)	FLOW (FPS)	WFSU (FLUSH VALVE)	WFSU (NON-FLUSH VALVE)
1/2"	1.47	2.03	0	0
3/4"	3.97	2.63	0	3
1"	8.15	3.17	0	10
1-1/4"	14.33	3.66	0	20
1-1/2"	22.82	4.12	5	35
2"	46.51	4.92	40	113
2-1/2"	85.03	5.72	172	299
3"	136.36	6.42	468	566

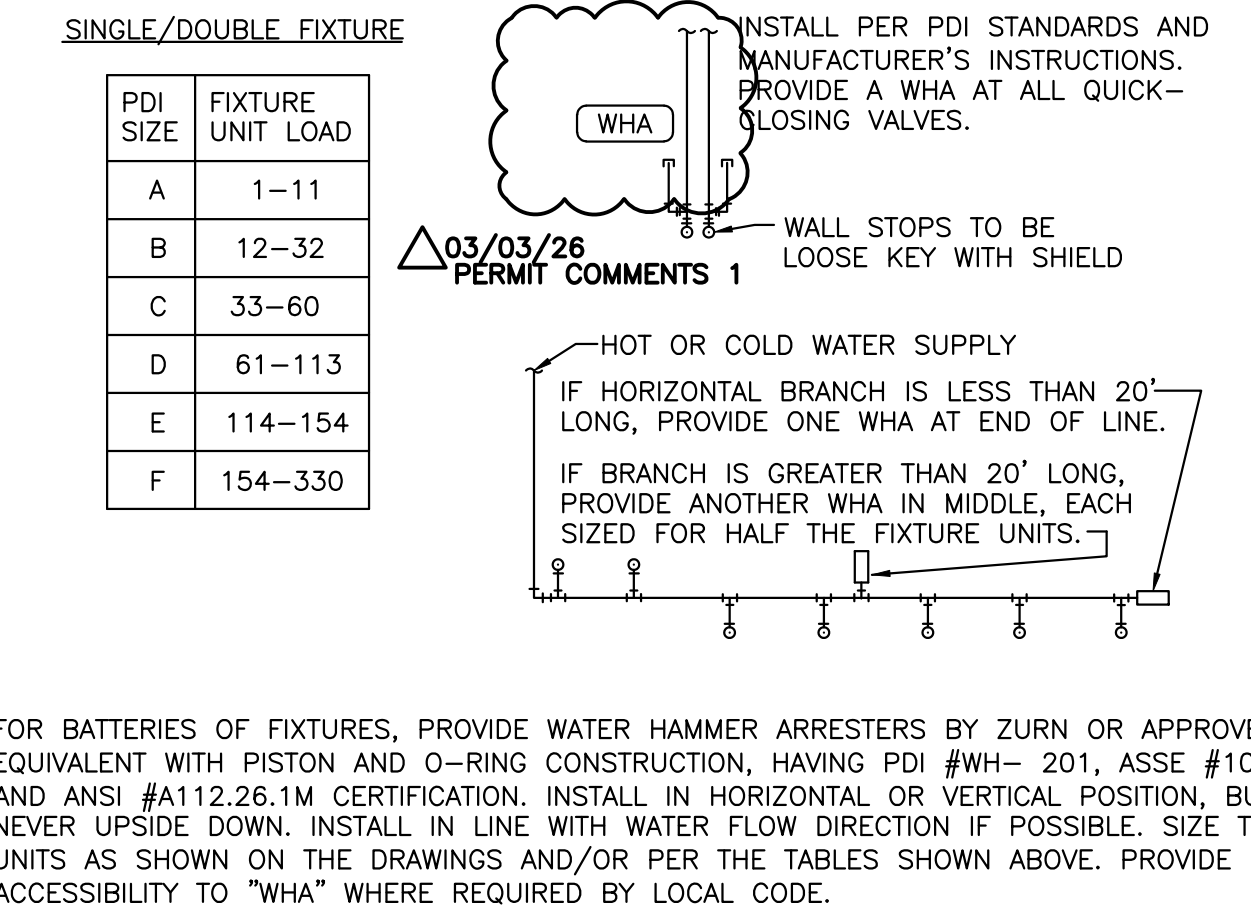
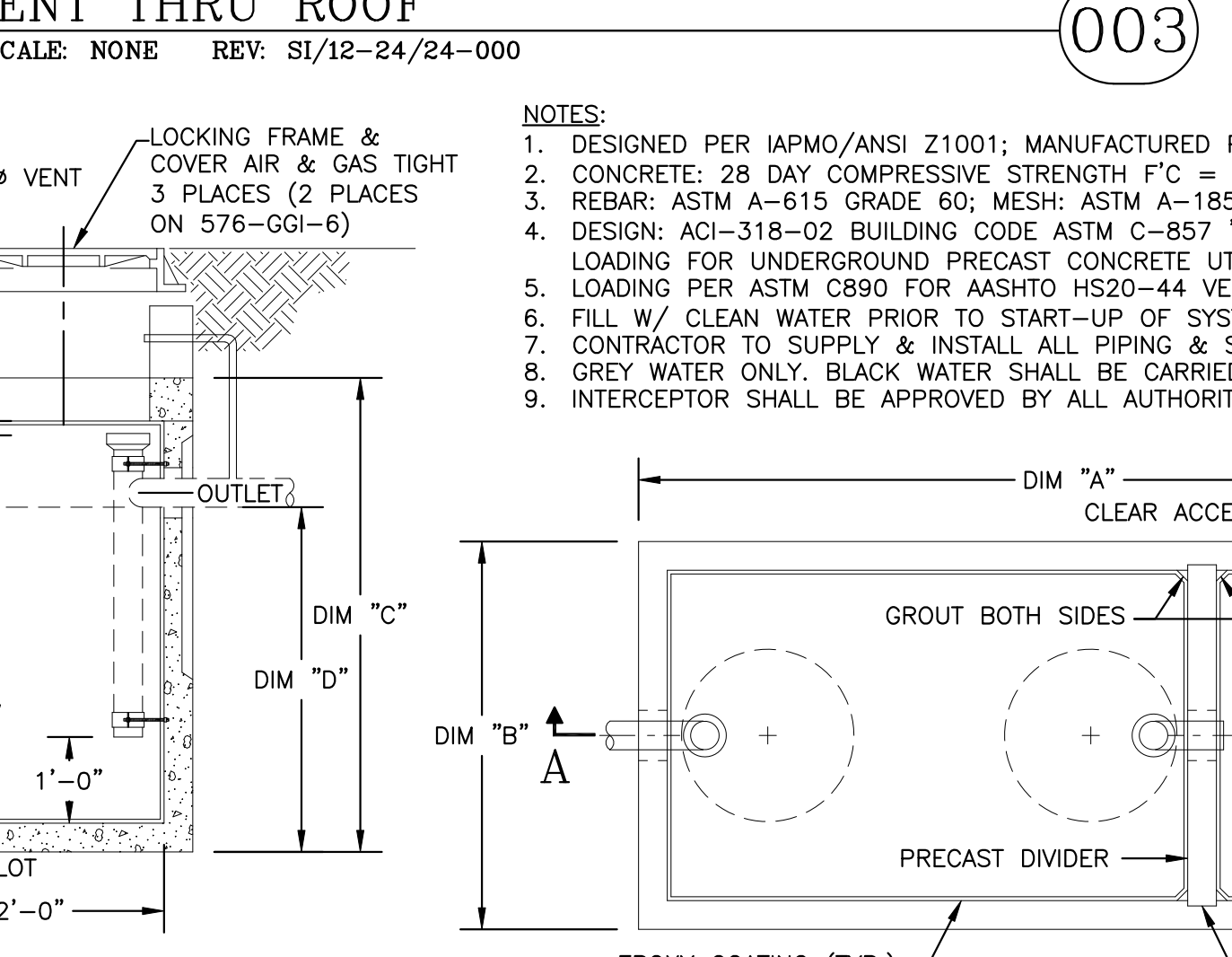
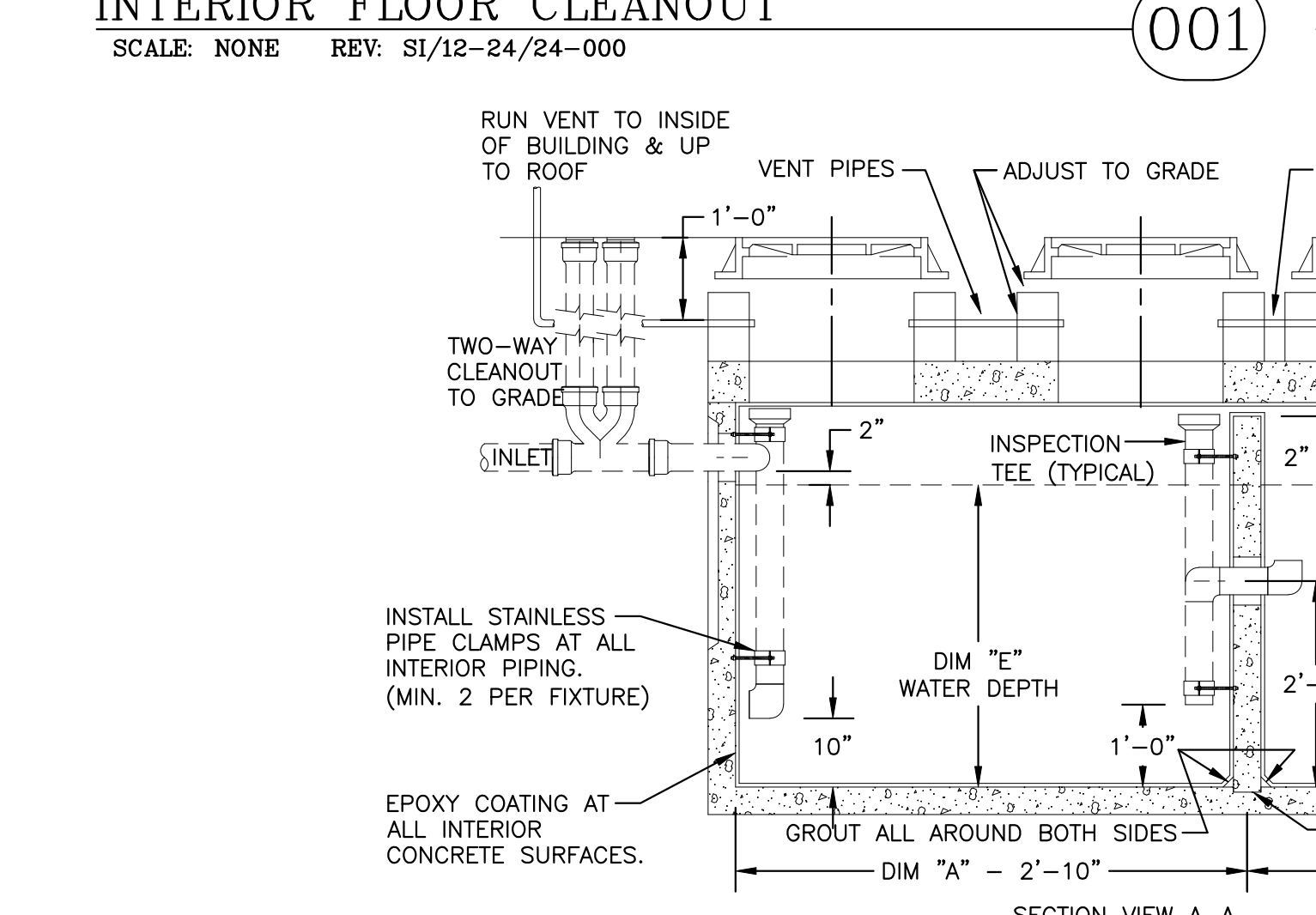


ROOF AREA DRAINAGE CHART (GRAVITY SYSTEM)

RAINFALL RATE 3.6 IN/HOUR
 PIPE SLOPE 0.25 IN/FT

MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREAS

PIPE SIZE	PROJECTED ROOF AREA (SQ. FT.)
6"	13,020
8"	27,003
10"	49,595



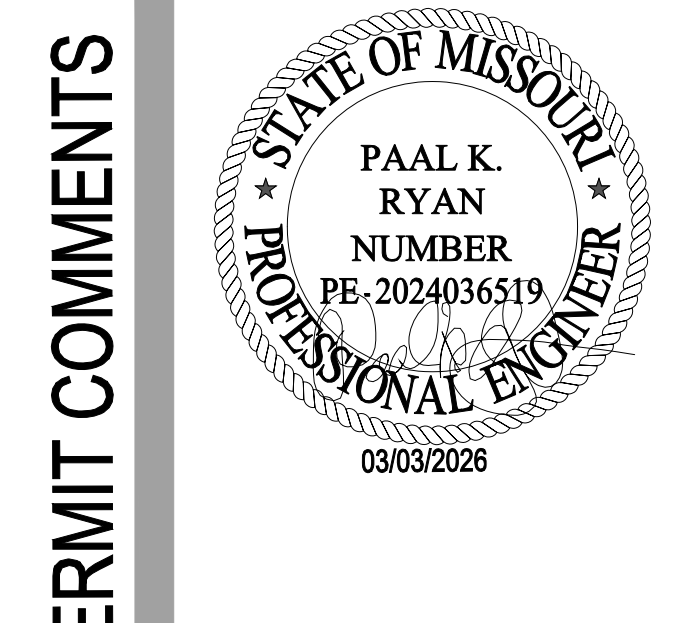
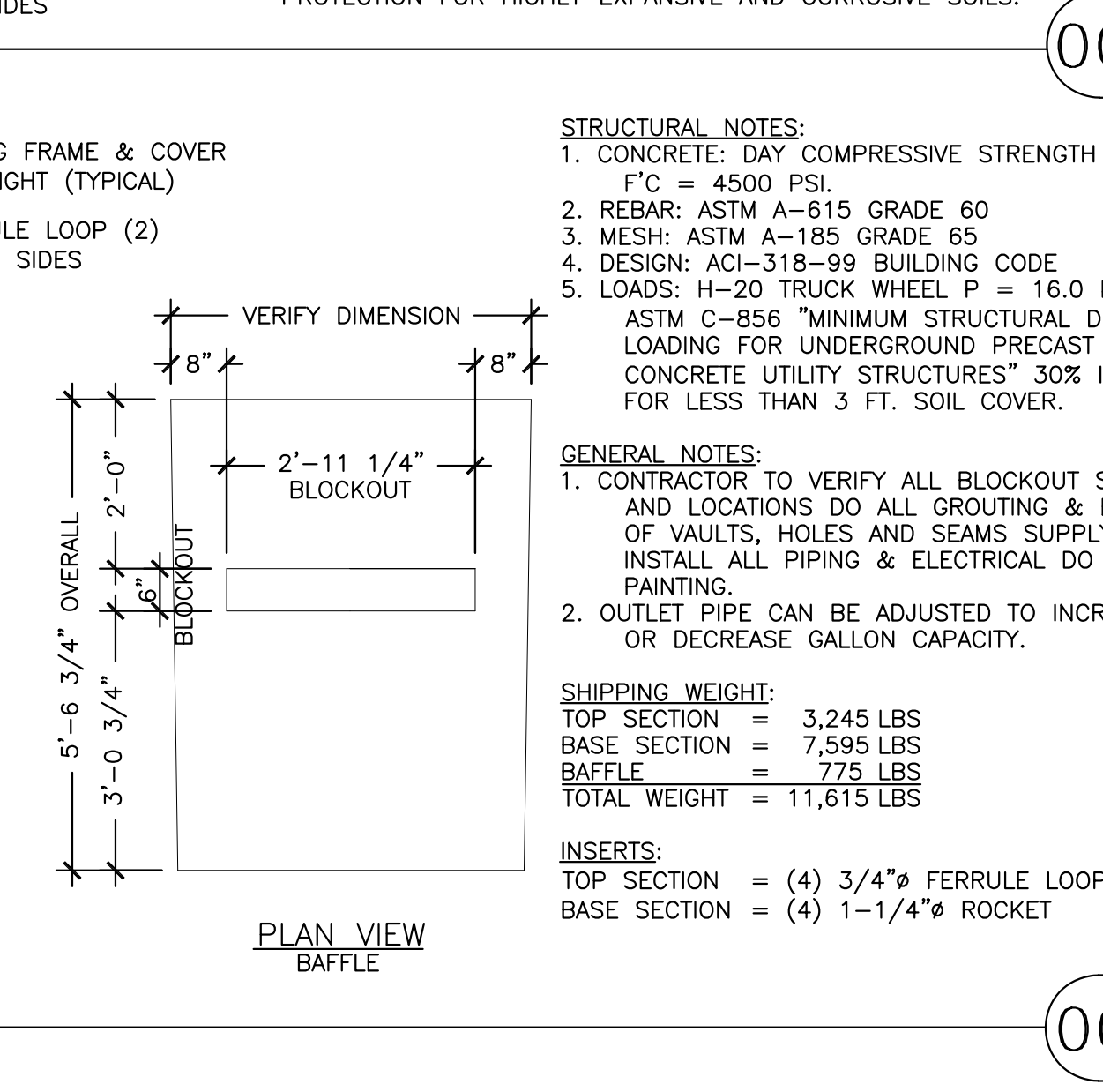
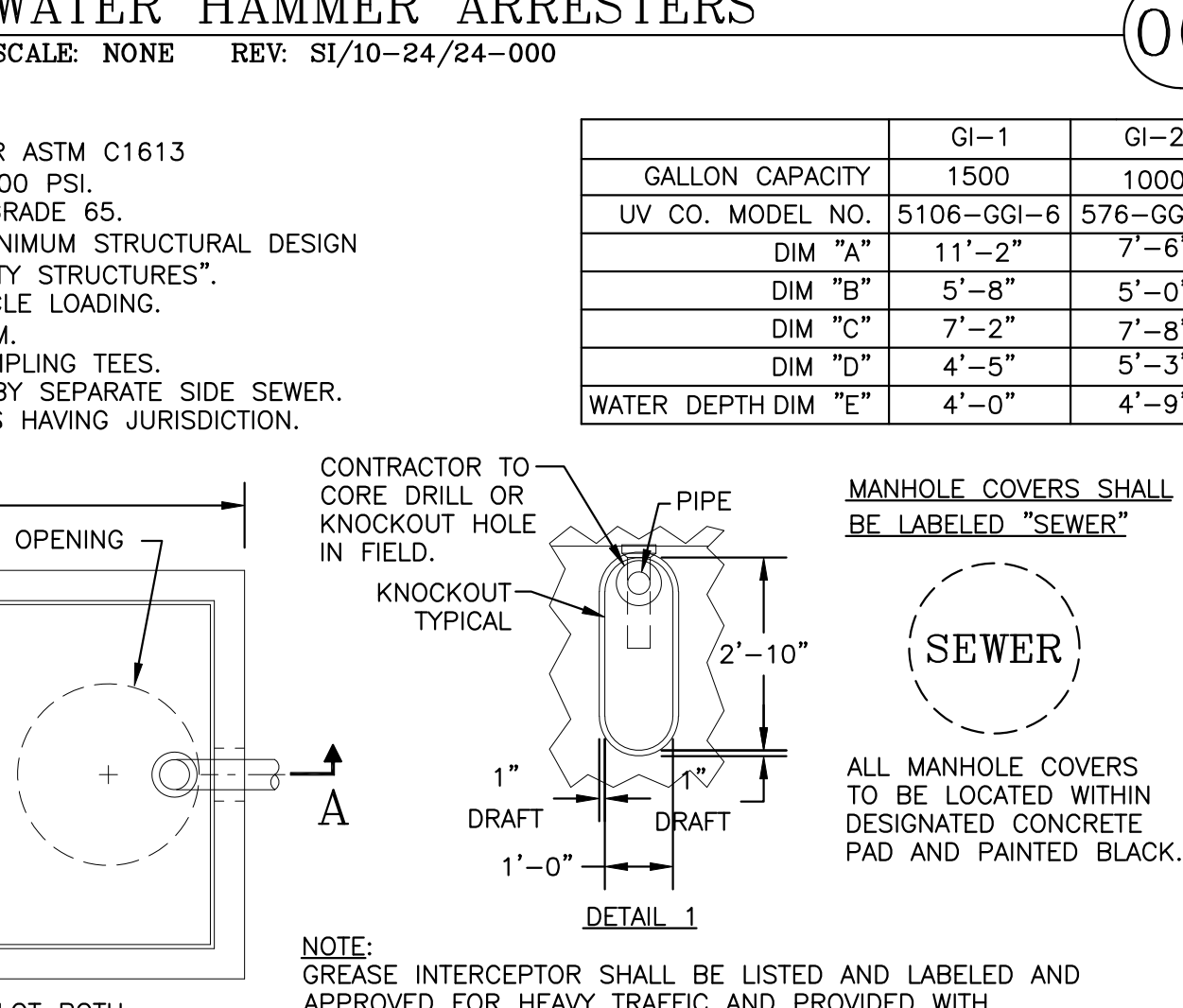
ISOLATION VALVE SCHEDULE

VALVE TAG	DESCRIPTION	SERVES	VALVE TAG	DESCRIPTION	SERVES
GAS BAK	GAS ISOLATION	BAKERY OVENS	WATER PRR	WATER ISOLATION	PUBLIC RESTROOM
GAS ENT	GAS ISOLATION	ENTRY/CANOPY	WATER REC	WATER ISOLATION	FOOD SERVICE
GAS FS	GAS ISOLATION	FOOD SERVICE	WATER TIRE	WATER ISOLATION	TIRE SALES TIRE INSTALL
GAS FRT	GAS ISOLATION	FUTURE CONNECT	WATER PHOTO	WATER ISOLATION	PHOTO
GAS LR	GAS ISOLATION	OFFICE/LOCKER RM	WATER OPT	WATER ISOLATION	OPTICAL
GAS OPT	GAS ISOLATION	OPTICAL	WATER REC	WATER ISOLATION	RECEIVING AREA
GAS REC	GAS ISOLATION	RECEIVING	WATER MNB	WATER ISOLATION	MEAT & BAKERY
GAS ROT	GAS ISOLATION	ROTTISSERIE OVENS	WATER ROOF	WATER ISOLATION	ROOF HOSE BIBB
GAS RX	GAS ISOLATION	PHARMACY	WATER ENT	WATER ISOLATION	ENTRANCE
GAS SALES	GAS ISOLATION	MAIN SALES AREA	WATER RX	WATER ISOLATION	WELLNESS CENTER
GAS TIRE	GAS ISOLATION	TIRE SALES TIRE INSTALL			
GAS WH	GAS ISOLATION	FRESHLINE WATER HEATERS			

FOR MORE INFORMATION, SEE SPEC SECTION 220500 2.9.

PLUMBING LEGEND

	COMBINATION WASTE & VENT		GAS COCK		CAP OFF		POUNDS PER SQUARE INCH
	GREASY WASTE/SANITARY SEWER		CONTROL VALVE - 2 / 3 WAY		ABOVE FINISH FLOOR		ROUGH INSTALLATION
	WASTE/SANITARY SEWER		STRAINER		AUTHORITY HAVING JURISDICTION		REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
	VENT		THERMOMETER		BELOW FINISH FLOOR		REDUCED PRESSURE ZONE ASSY. BACKFLOW PREVENTER
	COLD WATER		UNION		CLEAN OUT		SURFACE CLEAN OUT
	HOT WATER		FLOOR CLEAN OUT		COLD WATER		SANITARY SEWER
	HOT WATER CIRCULATION		GENERAL CONTRACTOR		FLOOR CLEAN OUT		TYPICAL
	AIR		GENERAL CONTRACTOR		UNION		UNION
	CONDENSATE DRAIN		HOT & COLD WATER		UNLESS NOTED OTHERWISE		VENT THRU ROOF
	GAS		HOT WATER		WASTE		WALL CLEAN OUT
	NITROGEN		MIXING VALVE		MECHANICAL CONTRACTOR		WATER HAMMER ARRESTER
	FILTERED (RO) COLD WATER		PRESSURE GAUGE				
	HARD COLD WATER		AUTO AIR VENT				
	STORM/OVERFLOW DRAIN						



PERMIT COMMENTS

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA PERMIT
12/22/25	ISSUED FOR PERMIT
02/10/26	BID ADDENDUM 1
03/03/26	PERMIT COMMENTS 1

PROJECT STATUS: PERMIT COMMENTS 1

T.E. OF WA, INC.
 930 N. RIVERVIEW DRIVE
 SUITE #200
 LEES SUMMIT, MO 64087
 PHONE: 465-8700-5763
 FAX: 465-8700-5766

PLUMBING FIXTURE SCHEDULE - CONTRACTOR PROVIDED											
SYMBOL	DESCRIPTION	MFR./MODEL	WASTE	VENT	COLD W.	HOT W.	SPECIFICATIONS	DETAIL	SERVES	NOTES	BACKFLOW PREVENTION
BP	BOOST PUMP ORNE10-2 USA/MEX	GRUNDFOS BOOSTERPA HQRNO MPC-E CRNE10-2			3"		3 PUMP BOOSTER PACKAGE, 1-1/2 HP, 460 VOLT, 3 PHASE 60 HZ, 6.4 FLA, 10.2 GALLON DIAPHRAM TANK PUMPS TO BE 316 STAINLESS STEEL, INTEGRATED VFD/MOTOR, CONSTANT PRESSURE CONTROL, CASCADE CONTROL, 604 LBS. 1 MOTOR: 60 GPM @ 60 FEET OF HEAD 26 PSI 2 MOTORS: 120 GPM @ 60 FEET OF HEAD 26 PSI MOTOR 3: REDUNDANT/STAND-BY	21/P	MECHANICAL ROOM		
CP-#	CIRCULATING PUMP	GRUNDFOS UPS 26-98R6C				3/4"	BRONZE HOUSING, 12 GPM @ 21 FEET OF HEAD, 120 VOLT, 197 WATTS, 1/6 HP. PROVIDE WITH THERMOSTAT/TIMER. VERIFY MOUNTING WITH MANUFACTURER (WHAT SHOULD BE HORIZONTAL). CONTROLLED BY AQUASTAT.		MECHANICAL ROOM, JANITOR ROOM		N/A
D-1	FLOOR DRAIN	STAINLESS DRAINS.COM CSD5F-R -410-30.5	4"	2"			HEAVY DUTY, 1/2" STAINLESS STEEL SLOTTED GRATE WITH 12 GA TYPE 304 STAINLESS STEEL BODY, ANCHOR TABS, NO-HUB, ADJUSTABLE HEIGHT OUTLET WITH INTEGRAL BUTTERFLY LOCK, STAINLESS STEEL SEDIMENT BASKET. DRILL AND TAP UPPER FRAME FOR TRAP PRIMER AS REQUIRED.	21/P	MEAT, BAKERY, DELI, FOOD SERVICE, ROTISSERIE	(8)(12)	N/A
D-2	CONDENSATE DRAIN	STAINLESS DRAINS.COM CSD6000AT2	2"	2"			6" ADJUSTABLE FLOOR DRAIN WITH 14 GA STAINLESS STEEL BODY. DRAIN PROVIDED WITH PERFORATED 12 GA STAINLESS STEEL 3/4" GRATE ADJUSTABLE TOP.	22/P	COOLER	(12)	N/A
D-3	FLOOR SINK DRAIN	STAINLESS DRAINS.COM CSD58X86P	3"	2"			8X8X6" DEEP FLOOR SINK WITH 14 GA STAINLESS STEEL BODY. DRAIN PROVIDED WITH PERFORATED 12 GA STAINLESS 1/2" GRATE, DOME STRAINER, FLASHING COLLAR AND 3" NO HUB ADJUSTABLE HEIGHT OUTLET.	23/P	BAKERY OVENS	(12)	N/A
D-4	FLOOR SINK DRAIN	STAINLESS DRAINS.COM CSDSINK12X12X10 1/2PIFHS	4"	2"			INDIRECT SINK WASTE, 12" SQUARE EXTRA DEEP 14GA STAINLESS STEEL RECEPTOR. DOME BOTTOM STRAINER, NO HUB ADJUSTABLE HEIGHT OUTLET, PERFORATED 1/2" GRATE AND INTERNAL FLANGE.	23/P	MEAT, BAKERY, DELI, FOOD SERVICE	(12)	N/A
D-5	FLOOR DRAIN	STAINLESS DRAINS.COM CSD6000AT-TPC3	3"	2"			6" FLOOR DRAIN WITH 14 GA STAINLESS STEEL BODY. DRAIN PROVIDED WITH PERFORATED 12 GA STAINLESS STEEL GRATE, TRAP PRIMER CONNECTION AND 3" ADJUSTABLE OUTLET.	22/P	TOILET ROOMS, JANITOR ROOMS	(8)(12)	N/A
D-6	FLOOR DRAIN	STAINLESS DRAINS.COM SDD14X8	4"	2"			HEAVY DUTY, 1/2" STAINLESS PERIMETER CAP GRATE WITH 6 GA TYPE 304 STAINLESS STEEL BODY, ANCHOR TABS, NO-HUB, ADJUSTABLE OUTLET, PERFORATED OUTLET STRAINER WITH LOCK PINS AND STAINLESS STEEL SEDIMENT BASKET.	90/P	RACK WASHER PIT	(12)	N/A
D-8	FLOOR SINK	STAINLESS DRAINS.COM CSDSUMP 24X16X17HD	4"	2"			24"X16" 14 GA TYPE 304 STAINLESS STEEL FLOOR SINK 17" DEEP, 28"X20" ANCHOR FLANGE WITH BASKET STRAINER, 4"X10" HUB ADJUSTABLE HEIGHT OUTLET, 1/4" X 1-1/2" ON 1" CENTER GRATING.		SCRUBBER RECEPTOR	(12)	N/A
DF-2	DRINKING FOUNTAIN	ELKAY EZSLBWSLK	2"	1-1/2"	1/2"		WALL MOUNTED BI-LINE WATER COOLER (EZSLBWSLK) WITH BOTTLE FILLING STATION (EZWSR), 8.0 GPH BASE RATE 115V/18. 8.0 FLA, FLEXIBLE BUBBLER GUARD, SENSITIVE ACTIVATED FIL SENSOR, ADA COMPLIANT, UL & CSA CERTIFIED.		PUBLIC RESTROOM, RECEIVING RESTROOM	(6)	LH-BS AG
EW-1	EYE WASH	HAWS 7260B	2"	1-1/2"	1/2"	1/2"	ABS RECEPTOR, WALL MOUNTED TWIN EYE HEADS, INSTANT ACTION BALL VALVE, 1/2" SUPPLY, 1-1/4" TAILPIECE & TRAP.		BATTERY CHARGERS TIRE INSTALL		LH-BS AG
FCO	FLOOR CLEAN OUT	STAINLESS DRAINS.COM CSDCLNOUT	SEE PLAN				FLOOR CLEAN OUT WITH 1/2" HEAVY DUTY TYPE 304 STAINLESS STEEL SMOOTH PLATE TOP AND PVC PLUG.	1/P		(12)	N/A
FWD	FOOD WASTE DISPOSAL	INSINKERATOR BODGER 900	1-1/2"	1-1/2"			FOOD WASTE DISPOSER, CONTINUOUS FEED, 3/4 HP MOTOR 120V/18. STAINLESS STEEL GRIND COMPONENTS WITH TWO SWIRL LUGS. SELF-SERVICE WRENCH, GO TO PROVIDE 3" POWER CORD ACCESSORY KIT.		EMPLOYEE BREAK ROOM		N/A
GI-1	GREASE INTERCEPTOR	UTILITY VAULT 5106-GGI-6	6"	3"			UNIT CAPACITY OF 1500 GAL AT 3'-11" WATER DEPTH. UNIT SHALL HAVE PRIOR APPROVAL BY LOCAL JURISDICTION BEFORE ORDERING. CONTRACTOR TO VERIFY INLET/OUTLET PIPE LOCATION AND SIZE.	4/P	MEAT, BAKERY		N/A
GI-2	GREASE INTERCEPTOR	UTILITY VAULT 5106-GGI-6	6"	3"			UNIT CAPACITY OF 1500 GAL AT 3'-11" WATER DEPTH. UNIT SHALL HAVE PRIOR APPROVAL BY LOCAL JURISDICTION BEFORE ORDERING. CONTRACTOR TO VERIFY INLET/OUTLET PIPE LOCATION AND SIZE.	4/P	FOOD SERVICE		N/A
HB-1	HOSE BIBB	WOODFORD 65C			3/4"		FROST PROOF, AUTOMATIC DRAINING FREEZELESS HYDRANT, LOOSE KEY. MOUNT AT +30" AFF, VERIFY WALL THICKNESS FOR ROD ASSEMBLY.			(2)	LH-BS AVB
HB-2	HOSE BIBB	WOODFORD 26P	SEE PLAN	SEE PLAN			+12", WALL SILL, PROVIDE WITH METAL WHEEL HANDLE.			(2)	LH-BS AVB
HB-4	HOSE BIBB	WOODFORD 26	3/4"		3/4"		+24", PIPE MOUNT-(C INLET), 3/4" HOSE FAUCET, PROVIDE WITH METAL WHEEL HANDLE.			(2)	LH-BS AVB
HB-5	HOSE BIBB	WOODFORD Y30	3/4"		3/4"		+24" FROST PROOF, AUTOMATIC DRAINING FREEZELESS HYDRANT, PROVIDE VACUUM BREAKER, NIDEL MODEL #34HD.	17/P	ROOF	(2)	LH-BS AVB
HB-6	HOSE BIBB	WOODFORD 26	3/4"		3/4"		ELEVATION PER PLAN, PIPE MOUNT-(C INLET), 3/4" HOSE FAUCET, PROVIDE WITH LOOSE KEY TEE.		MAIN SALES	(2)	LH-BS AVB
HD	HOSE DROP	CHICAGO FAUCET 90-LABOR 83-SB8NF	3/4"		3/4"	3/4"	FLEXIBLE STAINLESS STEEL HOSE, 58" LONG, WITH NO. 90 SELF-CLOSING PRE-RINSE VALVE SYMMONS VISU-TEMP 90-4.500V-TX-CHKS PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL THERMOMETER AND ADJUSTABLE STOP.		BAKERY		LH-BS/LBP PVB
HGV	HOOD GAS VALVE	ASCO SC-ELECTRIC GAS VALVE					GAS SOLENOID VALVE; INTERLOCK WITH HOOD CONTROL PANEL. CONTACT CAPTIVEAIRE (888)338-5225 TO ORDER.	15,16/P 19,20/M	FOOD SERVICE, ROTISSERIE		LH-BS AG
LAV-2	LAVATORY WALL HUNG	KOHLER BRENHAM K-1997 SLOAN ET-600-BDT ET-233	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER, WHITE, VITREOUS CHINA, 22"X19", WALL HUNG 4" FAUCET HOLE CENTERS. LAVATORY FAUCET SHALL BE SLOAN NO. ET-600-BDT 4" CENTERS, SENSOR OPERATED. PLUG IN TRANSFORMER, BELOW DECK THERMOSTATIC MIXING VALVE, WITH ET-233 TRANSFORMER TO OPERATE UP TO 2 FAUCETS. 0.5 GPM VANDAL RESISTANT SPRAY HEAD.		RECEIVING AREA RESTROOM, TIRE RESTROOM	(5)	LH-BS AG
LAV-4	LAVATORY HAND SINK	MPS AHA-002855 SLOAN ET-680	2"	1-1/2"	1/2"	1/2"	120"X19"X7-3/4", 16GA. TYPE 304 S/S SEAMLESS WELDED. WALL HUNG, 4, 1-1/8" FAUCET HOLES. FAUCET SHALL BE SLOAN ET-680, SENSOR OPERATED, AC POWERED (PLG OPTION), 0.5 GPM. ACCESSIBILITY COMPLIANCE: ADA, TAS, CAL, UFAS, AND ONTARIO BARRIER FREE. CONTACT STORAGE PRODUCTS GROUP AT (877) 503-4774 FOR EQUIPMENT.	27/M	PUBLIC RESTROOM	(5)	LH-BS AG
MS-2	MOP SINK	STONE HARD FAUCET CHICAGO FAUCETS	3"	2"	3/4"	3/4"	C.I.P. CONCRETE WITH STONE HARD BY G.C. COMPLETE WITH D-5 FLOOR DRAIN, #832-AA HOSE & BRACKET. PROVIDE COMPLETE WITH CHICAGO FAUCETS MODEL #445-RC8975XKPC & RC-ARMS FAUCET WITH INTERNAL CHECKS AND VACUUM BREAKER.		FOOD SERVICE, RECEIVING AREA JANITOR ROOM		LH-BS AVB
MV-2	THERMOSTATIC MIXING VALVE	SYMMONS MAXLINE 7-230-CK			3/4"	3/4"	MIXING VALVE WITH LOCKABLE TEMPERATURE SETTING AND HOT AND COLD CHECKS, SET TEMPERATURE TO 100° F.	32/P 26/P	PUBLIC RESTROOM, FRESHLINE, DEMO ROOM		N/A
MV-3	THERMOSTATIC MIXING VALVE	HAWS #9201EW			3/4"	3/4"	EYEWASH MIXING VALVE. SET TEMPERATURE TO 100° F.	20/P	HEARING AID CENTER, ROTISSERIE		N/A
ODT	OVERFLOW DRAIN TRIM RING	STAINLESS DRAINS.COM CSDC-RC-#	SEE PLAN				OVERFLOW DRAIN TRIM RING, 10 GA. 304 STAINLESS STEEL, (4) 5/16" HOLES FOR MOUNTING. SEE PLAN FOR SIZE.	6/P	CANOPY	(12)	N/A
S/S	SAND/SEDIMENT SEPARATOR	UTILITY VAULT CO.577 SAND SEPARATOR	8"	3"			CONCRETE 4500 PSI, REBAR: GRD 60, WORK CAP: 800 GAL. UNIT SHALL HAVE PRIOR APPROVAL BY LOCAL JURISDICTION BEFORE ORDERING. CONTRACTOR TO VERIFY INLET/OUTLET PIPE LOCATIONS AND SIZE.	5/P	SCRUBBER RECEPTOR		N/A
SS	SERVICE SINK	KOHLER BANNON K-6716	3"	10"	2"	3/4"	ENAMELLED CAST IRON SERVICE SINK WITH STAINLESS STEEL RIM GUARD, CHICAGO FAUCETS 445-RC8975XKPC & RC-ARMS WITH INTERNAL VACUUM BREAKER & INTERNAL CHECKS, KOHLER K-6673 3" TRAP. PROVIDE COMPLETE W/ METAL RIM GUARD.		TIRE CENTER		N/A
TBV	THERMOSTATIC BALANCE VALVE	CIRCUIT SOLVER CSA			3/4"	3/4"	SELF-ACTUATING THERMOSTATIC BALANCING VALVE FOR DOMESTIC HOT WATER RECIRCULATION SYSTEMS. STAINLESS STEEL CONSTRUCTION, 10" OPEN/CLOSE RANGE. NSF-61 CERTIFIED. SEE PLANS & DETAIL FOR QTY., SIZES AND SETPOINTS.	80/P	MEAT, BAKERY		N/A
TD-#	TRENCH DRAIN	STAINLESS DRAINS.COM CSD58X4 SLOTTED	4"	2"			14GA STAINLESS STEEL BODY WITH CATCH BASIN AND 1/4" STAINLESS STEEL SLOTTED GRATE, 16 GA 6X24" SDBS SEDIMENT BASKET. FOR TD-5 PROVIDE INTEGRAL BUTTERFLY LOCK.	37/P	MEAT PREP, ROTISSERIE		N/A
U	URNAL	KOHLER K-25039-T SLOAN ROYAL OPTIMA 186-0.5 ES-5	1-1/2"	1-1/2"	3/4"	3/4"	FLOOR MOUNTED WHITE VITREOUS CHINA, 3/4" TOP SPUD, 2" FLOOR OUTLET, WATER SAVER FLUSHES ON 0.5 GALLONS. SLOAN ROYAL OPTIMA MODEL 186-0.5 ES-5 WITH DUAL FILTERED TYPE DIAPHRAM KIT, LOW CONSUMPTION FLUSH VALVE, CHROME PLATED FOR ETHER RESISTANT. SUPPLY EQUIPPED WITH SOLENOID OPERATOR OPTIMA EL-1500 ADAPTIVE SENSOR, 4 TAMPER PROOF SCREWS & CHROME PLATED WALL COVER PLATE FOR TWO GANG ELECTRICAL BOX. PROVIDE WITH SLOAN EL-154 TRANSFORMER, 120V AC INPUT/24VAC OUTPUT, CLASS II, UL	19/P	PUBLIC RESTROOM	(7)	HH-BS AVB
WB-2	WALL BOX	GUY GRAY SBRW-82170			1/2"	1/4"	INSTALL WALL BOX @ +14" ABOVE FINISHED FLOOR. NO SANITARY SEWER CONNECTION REQUIRED IN FOOD SERVICE.		FOOD SERVICE		LH-BS AVB
WC	WATER CLOSET	ZURN Z5615.258.00.00.00 Z6000AV-HET Z59555S-EL	4"	2"	1"		ECOVANTAGE MANUAL FLUSH VALVE TOILET SYSTEM. WALL HUNG SIPHON JET, ELONGATED BOWL, WHITE VITREOUS CHINA, FLUSH 1.28 GALLONS MIN. WORKING PRESSURE 25 PSI AT VALVE WHILE FLUSHING. 1" SCREWDRIVER BAK-CHECK ANGLE STOP, ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH CONNECTION & SPUD COUPLING FOR 1-1/2" TOP SPUD. ZURN Z5955S-EL, OPEN FRONT WHITE TOILET SEAT FOR ELONGATED BOWL, NO COVER, STAINLESS STEEL HINGE W/CHECK. PROVIDE WITH HEAVY DUTY 500# MINIMUM CAPACITY CARRIER.	8/P	PUBLIC RESTROOM, RECEIVING, TIRE RESTROOM	(1)(4)	HH-BS AVB
WF-1	WATER SYSTEM	EVERPURE			3/4"		REVERSE OSMOSIS (RO) SYSTEM, REFILLER, RO PROCESSING UNIT, 1-40 GALLON TANK, 1-40 GALLON TANK, 0.53 GPM @ 50 PSI, 120V, 18, 215W, 10A MCOOP, 90#. ORDER DIRECT FROM EVERPURE SEE SPEC. AND CONTACT @ 1-800-842-6193 (TWM@PENTAIR.COM)	75/P	FRESHLINE		
WH-1	WATER HEATER (140°F)	A.O. SMITH BTH-300A			1-1/2"	1-1/2"	119 GALLON CONDENSING WATER HEATER, ASME TANK CONSTRUCTION, 300,000 BTU/HR INPUT @ 7"W.C., 4.36 GPH @ 80°F TEMP RISE, 1.850 LBS (WET) 855 LBS (DRY). VENT AND FLUE PIPING TO BE CLOSED CELL SCHEDULE 40 PVC. PROVIDE CONCENTRIC VENT KIT P/N: 100113124 AND CONDENSATE NEUTRALIZING KIT P/N: CNS-6.	46/P	FRESHLINE	(3)	N/A
WH-5	WATER HEATER (120°F)	A.O. SMITH BTH-199			1-1/2"	1-1/2"	100 GALLON CONDENSING WATER HEATER, 199,900 BTU/HR INPUT @ 7"W.C., 294 GPH @ 80°F TEMP RISE, 1.386 LBS. VENT AND FLUE PIPING TO BE CLOSED CELL SCHEDULE 40 PVC. PROVIDE CONCENTRIC VENT KIT P/N: 100111100 AND CONDENSATE NEUTRALIZING KIT P/N: CNS-2.	32/P	TIRE PLATFORM	(3)	N/A
WHA	WATER HAMMER ARRESTER	ZURN Z-1700					SHOCKTRAP Z 1700 SERIES. SEE PLANS FOR LOCATIONS AND SIZES. PROVIDE THRUST BLOCK AT UNIT TO LIMIT MOTION.	9/P			N/A
WS-1	WATER SOFTENER 106 GPM	EVERPURE			(2)2"		106 GPM CONTINUOUS @ 15 PSI PRESSURE DROP, 137 GPM MAX. @ 25 PSI PRESSURE DROP, 120V, 18, 10W. 4690#. ORDER DIRECT FROM PENTAIR SEE SPEC. AND CONTACT @ 1-800-842-6193 (TWM@PENTAIR.COM)	77/P	MECHANICAL ROOM		N/A

PLUMBING FIXTURE SCHEDULE - SUPPLIED BY OWNER INSTALLED BY CONTRACTOR (SOIC)											
SYMBOL	DESCRIPTION	MFR./MODEL	WASTE	VENT	COLD W.	HOT W.	SPECIFICATIONS	DETAIL	SERVES	NOTES	BACKFLOW PREVENTION
HES	HEARING EXAM SINK	UNIVERSAL	2"	1-1/2"	1/2"	1/2"	22 GAUGE TYPE 302 SELF RIMMING STAINLESS STEEL, LEDGE TYPE, SINGLE COMPARTMENT SINK, 12"x10"x6" DEEP WITH FAUCET LEDGE. INCLUDES CHROME FAUCET, STRAINER AND INSTALLATION HARDWARE.		HEARING EXAM		LH-BS AG
LS	LOUNGE SINK	UNIVERSAL	2"	1-1/2"	1/2"	1/2"	16 GAUGE TYPE 301 STAINLESS STEEL, SINGLE COMPARTMENT SINK WITH OFFSET WASTE & FAUCET OPENINGS, 3-1/2" BASKET DRAIN WITH 1-1/2" OUTLET, 27"x15-1/2"x6" DEEP. ENCORE KL41-4002 FAUCET, 4" OC INLETS, ADJUSTABLE GOOSENECK SPOUT, WRIST BLADE HANDLES AND 2.2 GPM AERATOR. FOOD WASTE DISPOSAL (FWD) PROVIDED BY G.C. SAME AS RD-1 WITH OPTIONAL 2" HIGH DAM FOR OVERFLOW SERV.		EMPLOYEE BREAK ROOM		LH-BS AG
OD-1	OVERFLOW ROOF DRAIN	SPAN	SEE PLAN				ALUMINUM DRAIN BODY WITH STRAINER. OUTLET TO MATCH PIPING SYSTEM.			(9)	N/A
OES	OPTICAL EXAM SINK	UNIVERSAL	2"	1-1/2"	1/2"	1/2"	22 GAUGE TYPE 302 SELF RIMMING STAINLESS STEEL, LEDGE TYPE, SINGLE COMPARTMENT SINK, 12"x10"x6" DEEP WITH FAUCET LEDGE. INCLUDES CHROME FAUCET, STRAINER AND INSTALLATION HARDWARE.		OPTICAL EXAM		LH-BS AG
PLS	PHARMACY LAB SINK	UNIVERSAL	2"	1-1/2"	1/2"	1/2"	22 GAUGE TYPE 302 SELF RIMMING STAINLESS STEEL, LEDGE TYPE, SINGLE COMPARTMENT SINK, 12"x10"x6" DEEP WITH FAUCET LEDGE. INCLUDES CHROME FAUCET, STRAINER AND INSTALLATION HARDWARE.		PHARMACY		LH-BS AG
RD-1	ROOF DRAIN	SPAN	SEE PLAN				ALUMINUM DRAIN BODY WITH STRAINER. OUTLET TO MATCH PIPING SYSTEM.			(9)	N/A
RD-2	ROOF DRAIN	MIFAB MH-500	5"				19-3/8"Ø WITH LAQUERED CAST IRON BODY, LAQUERED DUCTILE IRON INDUCER, 120 TO 1,300 GPM FLOW RATE.	84,85/P		(9)	N/A
WM-#	WATER MGMT SYSTEM	SENSUS OMNI TURBO (T2)					SENSUS OMNI TURBO (T2) WATER METER WITH FLANGED CONNECTIONS TO MATCH WATER SERVICE SIZE. PROVIDE WITH HIGH RESOLUTION REGISTER TO REPORT IN 1 GPM INCREMENT.	30/P 77/P	PUMP ROOM	(13)	N/A

(1) WATER CLOSETS TO HAVE OPEN FRONT SEATS AND ELONGATED BOWLS.

(2) ALL HOSE BIBBS TO HAVE NON-REMOVABLE BACKFLOW PREVENTION DEVICES-TAMPER PROOF VACUUM BREAKER.

(3) WATER HEATERS TO HAVE RIGID CONNECTIONS & CONSTRAINTS TO RESIST SEISMIC MOTION.

(4) HANDICAP WATER CLOSETS SHALL BE +16" TO TOP OF BOWL, FLUSH VALVE LEVER CONTROLS TO BE ON THE WIDE SIDE OF STALL AND NOTE MORE THAN 44 INCHES ABOVE THE FLOOR.

(5) LAVATORIES SHALL BE +34" TO RIM, WITH 29" OF CLEAR SPACE UNDERNEATH, HOT WATER AND DRAIN PIPES UNDER LAV SHALL BE INSULATED PER SPEC. SECTION 22 07 00.

(6) DRINKING FOUNTAINS SHALL BE +36" TO TOP OF BUBBLER, W/27" CLEAR UNDERNEATH, SPOUT SHALL BE LOCATED W/3" OF THE FRONT & DIRECT WATER FLOW @ NOT LESS THAN 4" IN HEIGHT, M.C. TO INSTALL 2X4 BLOCKING IN WALL BEHIND BOTTLE FILLING STATION @ +35" A.F.F. & 50" A.F.F.

(7) URINALS SHALL BE A.D.A. COMPLIANT, WATER SAVER TYPE, 0.5 GPF MAX.

(8) PROVIDE TRAP PRIMER, ACCEPTABLE SUBSTITUTION: PROSET TRAPGUARD; CONTRACTOR TO VERIFY WITH AUTHORITY HAVING JURISDICTION AND PROVIDE CREDIT TO OWNER.

(9) ROOF DRAINS ON METAL ROOF PROVIDED BY METAL BUILDING SUPPLIER, ROOF DRAINS ON BUILT UP ROOFS PROVIDED BY G.C.

(10) EQUIPMENT FURNISHED BY THE OWNER, THE MECHANICAL CONTRACTOR SHALL ROUGH-IN PLUMBING, INSTALL AND CONNECT ALL SERVICES. ALL P-TRAPS, TAILPIECES, ESCUTCHEONS, AND STOP VALVES SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.

(11) PLUMBING TO PROVIDE AND INSTALL 1/2 GPM AERATORS.

(12) NATIONAL PURCHASE AGREEMENT IN PLACE WITH STAINLESSDRAINS.COM (A ZURN COMPANY) CONTACT SHANNON JAMES AT (888) 785-2345 OR SHANNON.JAMES@ZURN.COM.

(13) WATER MANAGEMENT SYSTEM TO BE ORDERED THROUGH WWW.INSTALLCOSTCO.COM/ORDER. SEE SPECIFICATION SECTION 2205.02.

HAZARD TYPE		BACKFLOW POTENTIAL
LH - LOW HAZARD	BS - BACK SIPHONAGE	
HH - HIGH HAZARD	BP - BACK PRESSURE	

RPZ - REDUCED PRESSURE PRINCIPLE BACK FLOW
PVB - PRESSURE VACUUM BREAKER
AG - AIR GAP
AVB - ATMOSPHERIC VACUUM BREAKER

FRESH LINE EQUIPMENT SCHEDULE - (S.O.I.C)												
ARCH. NUMBER	SYMBOL	DESCRIPTION	MFR./MODEL	WASTE	VENT	COLD W.	HOT W.	COMMENTS	DETAIL	SERVES	NOTES	BACKFLOW PREVENTION
4	E-1	HAND SINK	UNIVERSAL	1-1/2"	1-1/2"	1/2"	1/2"	16" X 18" X 16" TYPE 304 STAINLESS STEEL, WALL HUNG, WITH WALL BRACKET FISHER F1-3174 KNEE VALVE, 3816 GOOSENECK SPOUT.	28/P	MEAT, BAKERY, DELI, ROTISSERIE	(1)(3)(5)	LH-BS AG
244	E-3	AIR COMPRESSOR	STM DOMIX			1/2"	1/2"	1" AIR CONNECTION, AIR COOLED PUMP MOUNTED ON ASME 60 GALLON RECEIVER WITH AUTOMATIC DRAINER, 208V/3Ø, 3HP.	45/P	BAKERY	(1)(2)	LH-BS AG
200	E-5	WATER METER	STM DOMIX			1/2"	1/2"	WALL HUNG WATER METER AND BLENDER UNIT, WITH INLET STOPS, CHECKS AND VACUUM BREAKERS.	50/P	BAKERY	(1)(2)	LH-BS AG
203	E-6	RACK WASHER	LVO				1"	UNIT WITH RINSE BOOSTER AND STEAM VENT FAN. RUN DRAIN TO FLOOR SINK - TERMINATE WITH 1" AIR GAP. 66 MBH GAS INPUT.	49/P	BAKERY	(1)(2)	LH-BS/BP AVB
206	E-7	OVEN	HOBART AKA BOAKER OVS0062-EE			1/2"		UL LISTED INTEGRATED OVEN AND FULLY WELDED TYPE II HOOD FOR NON GREASE LADEN VAPOR. INTEGRAL OVEN WITH HOOD AND AIRFLOW DRAFT PROVING SWITCH ARE PROVIDED AND ASSEMBLED BY OWNER, INSTALLED BY CONTRACTOR. 350 MBH GAS INPUT, 750 CFM REQUIRED.	14/P	BAKERY	(1)(2)	LH-BS/BP
204	E-8	PROOFER BOX	HOBART/PW3S			3/8"		UNIT W/HUMIDIFIERS PROVIDED & ASSEMBLED BY OWNER.		BAKERY	(1)(2)	LH-BS/BP AG
17 18	E-10	FORMULA FOAM HOSE REEL	ECO LAB			3/4"	3/4"	WALL HUNG, HOSE REEL.	44/P	MEAT, DELI	(1)(2)	LH-BP/BS AG
222	E-11	MUFFIN DEPOSITOR	HINDS BOCK					PNEUMATIC OPERATED MUFFIN DEPOSITOR, PROVIDE PARKER SERIES 20 3/8" QUICK COUPLER ASSEMBLY, H.O.E. 1/4" NPT & PARKER 1/2" 801-8 AIR HOSE. DROP AIR HOSE FROM 1" AIR MAIN ABOVE CEILING, TERMINATE W/ QUICK COUPLER ASSEMBLY SCREWED TO MACHINE AIR INLET.		BAKERY	(1)(2)	N/A
002	E-12	TWO COMPARTMENT SINK	UNIVERSAL	INDIRECT		3/4"	3/4"	98" X 35-1/2" X 43" TYPE 304 STAINLESS STEEL, WITH DRAIN BOARD ON TOP AND UNDERSHELFS, FISHER 2210 PRE-RINSE W/ADD-A-FAUCET, AND (2) LEVER DRAIN.	41/P	MEAT PREP, DELI	(1)(6)	LH-BS AG
444	E-13	ROTISSERIE OVEN	HARDT INFIERNO 4500			1/2"		OVEN WITH HOOD, 120 MBH, CONTRACTOR SHALL INSTALL HOOD AND CONNECT PLUMBING TO OVENS USING FLEXIBLE HOSE CONNECTION, GAS LINE SHALL BE AGA APPROVED.	16/P	ROTISSERIE	(1)(2)	LH-BS/BP AVB
415	E-14	COMBI OVEN	AGA FOOD SERVICE			(2)3/4"		OVEN WITH HOOD, CONTRACTOR SHALL INSTALL HOOD AND CONNECT PLUMBING TO OVENS USING FLEXIBLE HOSE CONNECTION.	16/P	ROTISSERIE	(1)(2)	LH-BS/BP AVB
233	E-15	ONE COMPARTMENT SINK	UNIVERSAL	INDIRECT		3/4"	3/4"	30" X 24" W TYPE 304 STAINLESS STEEL, WITH FISHER 3253 FAUCET, AND LEVER DRAIN W/SS PANEL MOUNTED BEHIND SINK.	42/P	BAKERY	(1)	HH-BS AG
411	E-16	CHICKEN PREP TABLE/SINK	UNIVERSAL	INDIRECT		1/2"	1/2"	STAINLESS STEEL, ADJ. LEGS W/8" CENTER FAUCET, LEVER WASTES.	43/P	CHICKEN PREP	(1)(6)	HH-BS AG
1	E-17	DETERGENT SINK	KAY CHEMICAL			1/2"		AT 3 COMP SINK - 1/2" TEMPERED WATER FROM MV-2 @+16" A.F.F. VENDOR WILL MAKE FINAL CONNECTION FROM ROUGH IN BELOW THREE-COMPARTMENT SINK, AT PAN WASHER - 1/2" TEMPERED WATER FROM MV-2 @+60" A.F.F.	25/P		(4)	LH-BS AG AVB
618												



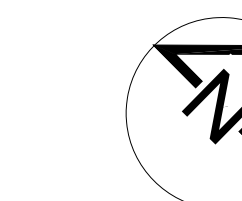
PERMIT COMMENTS

PROJECT STATUS: PERMIT COMMENTS 1

DATE DESCRIPTION

11/26/25 ISSUED FOR QA
12/22/25 ISSUED FOR PERMIT
02/10/26 BID ADDENDUM 1
03/03/26 PERMIT COMMENTS 1

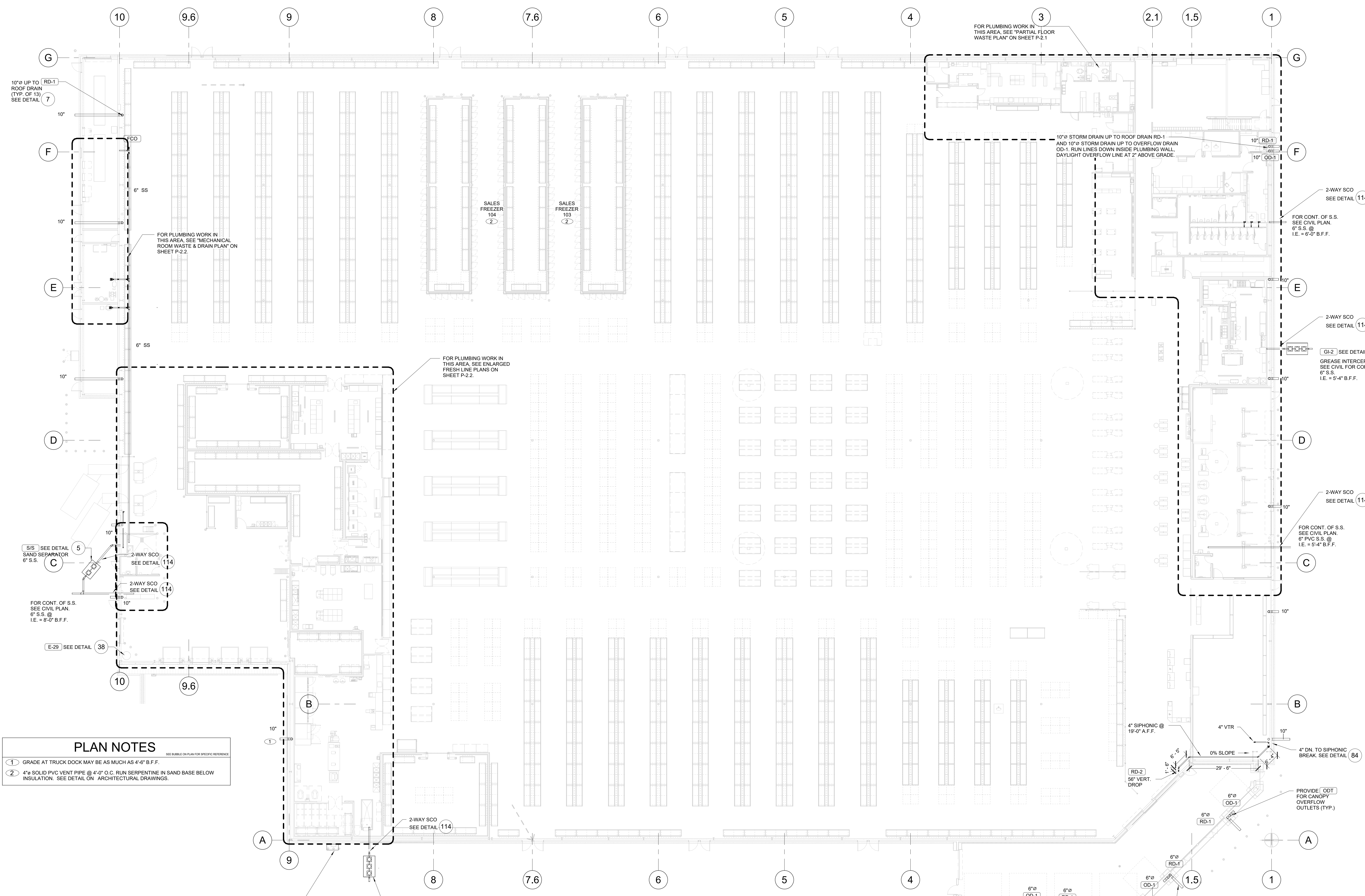
NEW WAREHOUSE
LEES SUMMIT, MO



TEI #: 25-346
PM: JAR
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

UTILITY/UNDERGROUND PLUMBING PLAN

P-1.1



PLAN NOTES
SEE BUBBLE ON PLAN FOR SPECIFIC REFERENCE

- GRADE AT TRUCK DOCK MAY BE AS MUCH AS 4'-6" B.F.F.
- 4" S.P.V. VENT PIPE @ 4'-0" O.C. RUN SERPENTINE IN SAND BASE BELOW INSULATION. SEE DETAIL ON ARCHITECTURAL DRAWINGS.

UTILITY/UNDERGROUND PLUMBING PLAN
SCALE: 1/16" = 1'-0"

6" STORM DRAIN UP TO ROOF DRAIN RD-1 AND 6" STORM DRAIN UP TO OVERFLOW DRAIN OD-1. RUN LINES DOWN INSIDE COLUMN. DAYLIGHT OVERFLOW LINE TO SIDE OF COLUMN AT 2' ABOVE GRADE. ALL EXPOSED RAIN LEADERS AT CANOPY TO BE CAST IRON WITH NO EXCEPTION. PROVIDE DRIF CONNECTION PER DETAIL

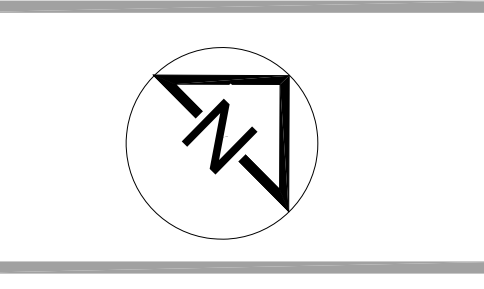
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DATE	DESCRIPTION
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12/22/25	ISSUED FOR PERMIT
02/10/26	ISSUED FOR AIR
03/03/26	PERMIT COMMENTS 1

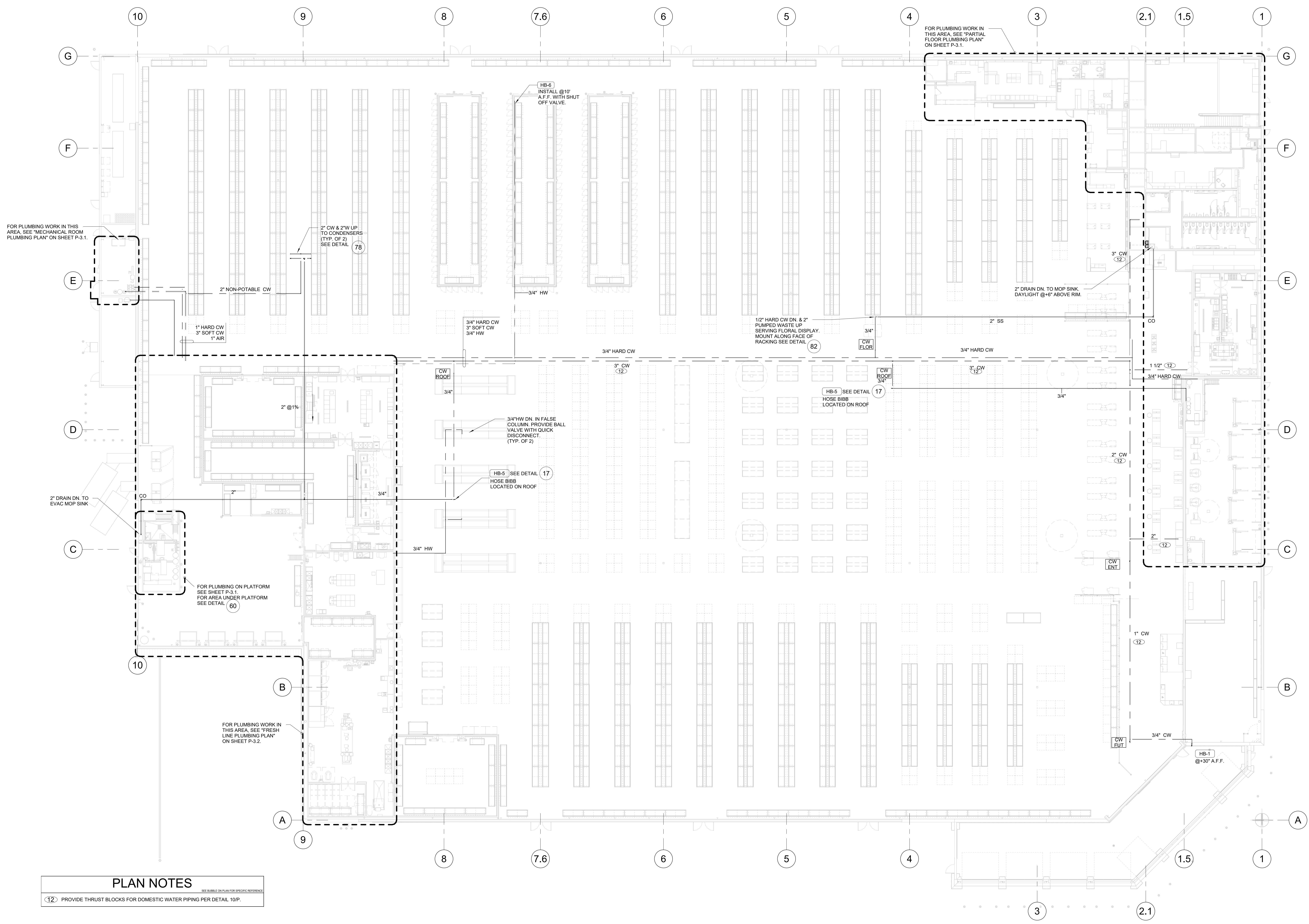
T.E. OF WA, INC.
 930 N. RIVERSIDE DRIVE
 SUITE 200
 LEES SUMMIT, MO 64062
 PHONE: 417-970-9753
 FAX: 417-970-9756

NEW WAREHOUSE
 LEES SUMMIT, MO



TEI #: 25-346
 PM: CWC
 CHECKED BY: PKR/ANT
 ISSUED: 11/26/24

MAIN PLUMBING PLAN



PLAN NOTES	
(12)	PROVIDE THRUST BLOCKS FOR DOMESTIC WATER PIPING PER DETAIL 10P.

MAIN PLUMBING PLAN
 SCALE: 1/16" = 1'-0"



PERMIT COMMENTS

PROJECT STATUS: PERMIT COMMENTS 1

DATE	DESCRIPTION
11/26/25	ISSUED FOR GAS PERMIT
12/22/25	ISSUED FOR AIR PERMIT
02/10/26	BID ADDENDUM 1
03/03/26	PERMIT COMMENTS 1

T.E. OF WA, INC.

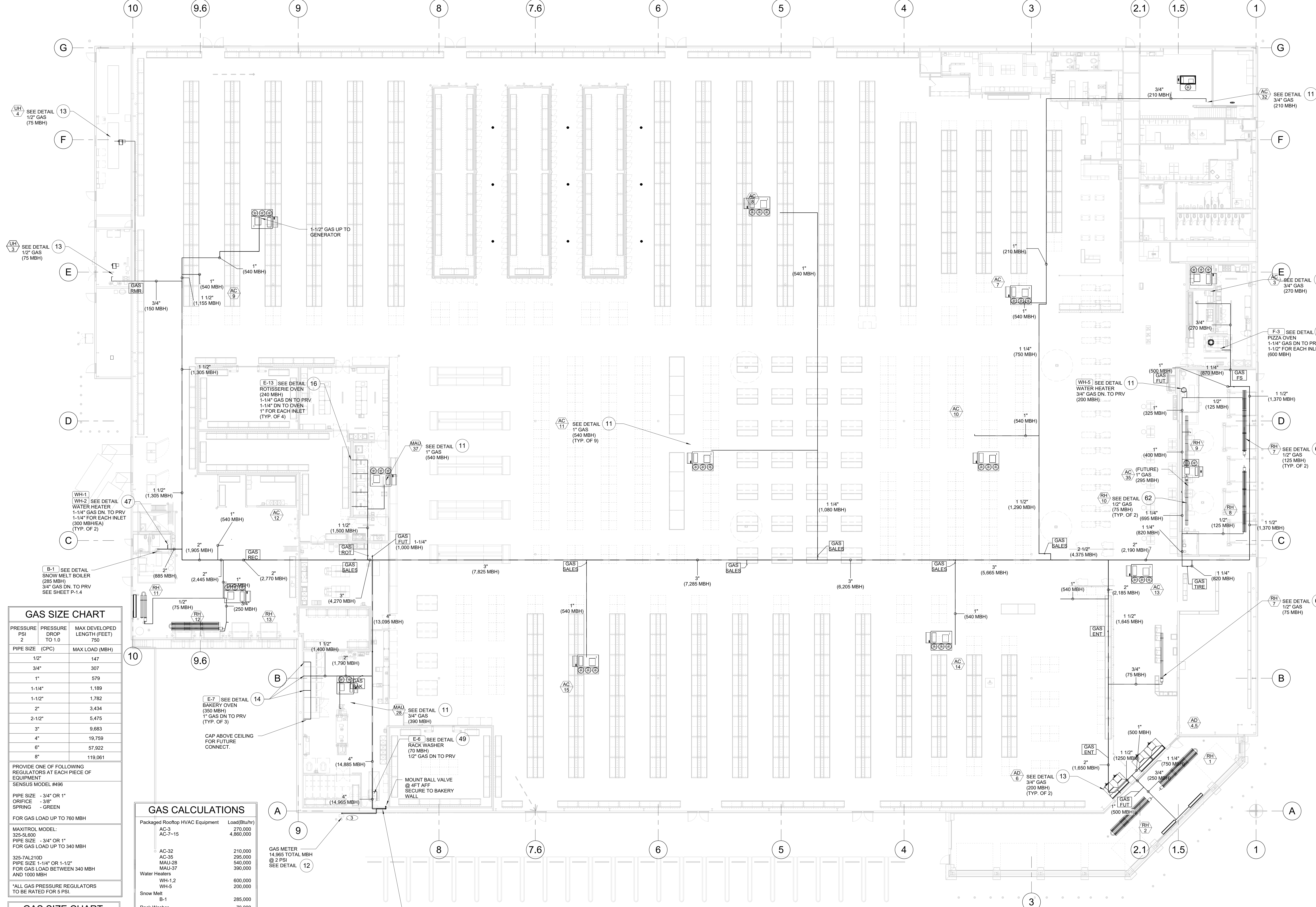
930 N. RIVERSIDE DRIVE
SUITE #200
LEES SUMMIT, MO 64062
PHONE: 417-970-5753
FAX: 417-970-5756

NEW WAREHOUSE
LEES SUMMIT, MO



TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

GAS PIPING PLAN AND GAS CALCULATIONS
P-1.3



GAS SIZE CHART

PIPE SIZE (CPC)	MAX LOAD (MBH)
1/2"	147
3/4"	307
1"	579
1-1/4"	1,189
1-1/2"	1,782
2"	3,434
2-1/2"	5,475
3"	9,683
4"	19,759
6"	57,922
8"	119,061

PROVIDE ONE OF FOLLOWING REGULATORS AT EACH PIECE OF EQUIPMENT
SENSUS MODEL #496

PIPE SIZE - 3/4" OR 1"
ORIFICE - 3/8"
SPRING - GREEN

FOR GAS LOAD UP TO 760 MBH

GAS SIZE CHART

PIPE SIZE (UPC)	MAX LOAD (MBH)
1/2"	45
3/4"	94
1"	177
1-1/4"	363
1-1/2"	544
2"	1,048
2-1/2"	1,672
3"	2,956
4"	6,032
6"	17,683
8"	36,348

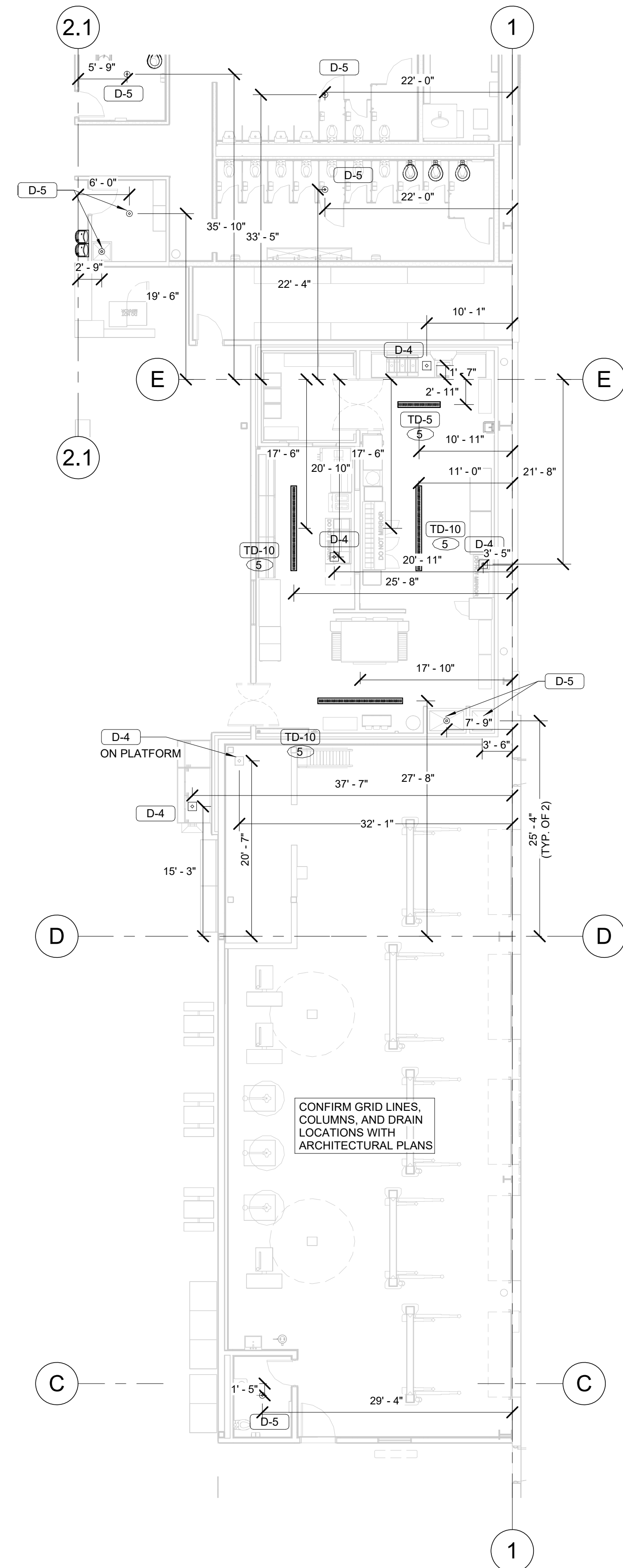
GAS CALCULATIONS

Equipment	Load (Btu/hr)
Maxitrol Model: AC-3	270,000
AC-35	295,000
MAU-28	540,000
MAU-37	390,000
Water Heaters: WH-1,2	600,000
WH-5	200,000
Snow Melt: B-1	285,000
Rack Washer	70,000
Ovens: ROTISSERIE OVENS	980,000
PIZZA OVEN	600,000
BAKERY OVENS	1,400,000
Radiant Heaters: RH-1,2	250,000
RH-7,8	250,000
RH-9,10	150,000
RH-11,12,13	325,000
Unit Heaters: UH-3,4	150,000
Air Doors: AD-4,5	500,000
AD-6	400,000
Refrigeration Equipment: Generator	540,000
Future Loads	1,930,000
TOTAL GAS LOAD	14,965,000

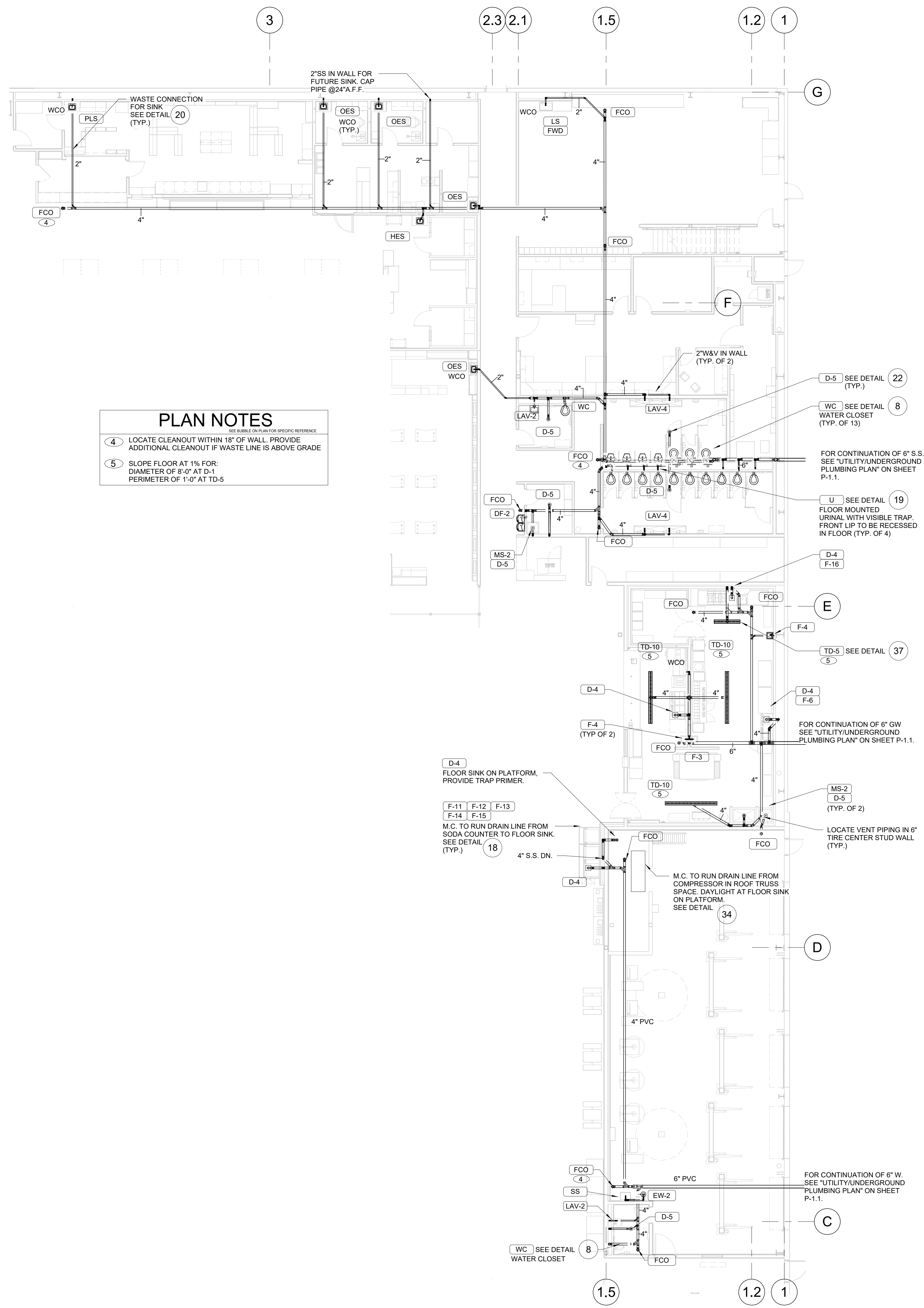
4" GAS LINE IS REQ'D @ 2 PSI.

GAS PIPING PLAN
SCALE: 1/16" = 1'-0"

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FRONT END DRAIN PLAN
SCALE: 1" = 10'-0"

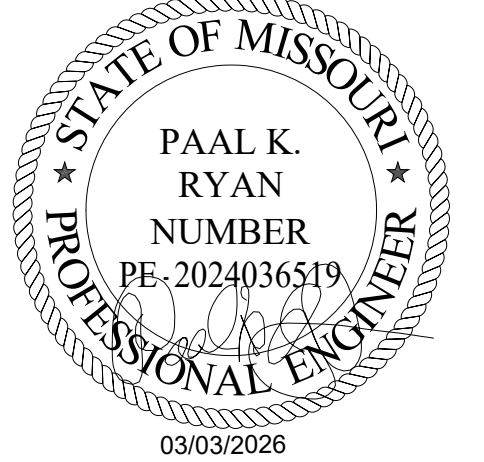


PLAN NOTES

4 LOCATE CLEANOUT WITHIN 18" OF WALL. PROVIDE ADDITIONAL CLEANOUT IF WASTE LINE IS ABOVE GRADE.

5 SLOPE FLOOR AT 1% FOR DIAMETER OF 8'-0" AT D-1 PERIMETER OF 1'-0" AT TD-5.

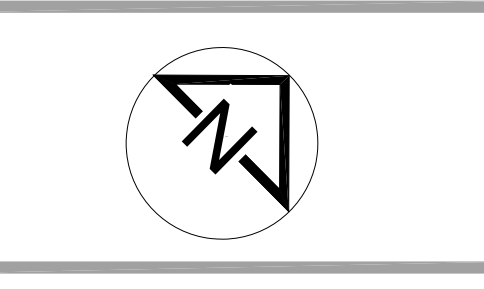
PERMIT COMMENTS



DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/22/25	ISSUED FOR PERMIT
02/10/26	ISSUED FOR AIR
03/03/26	PERMIT COMMENTS 1

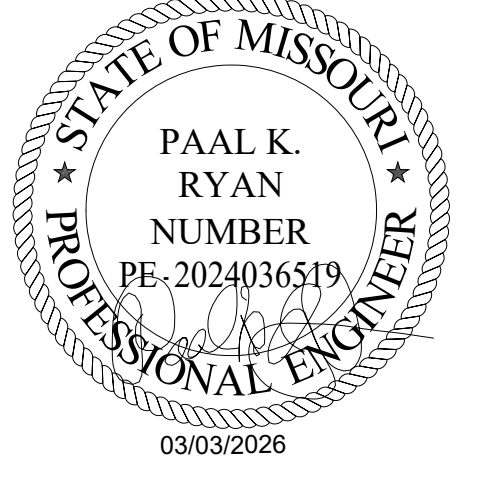
T. E. OF WA, INC.
 930 N. RIVERSTIDE DRIVE
 SUITE #200
 LEES SUMMIT, MO 64062
 PHONE: 417-497-9753
 FAX: 417-497-9756

NEW WAREHOUSE
 LEES SUMMIT, MO



TEI #: 25-346
 PM: JRS
 CHECKED BY: PKR/ANT
 ISSUED: 11/26/24

FRONT END WASTE & DRAIN PLANS



PROJECT STATUS: PERMIT COMMENTS 1

DATE DESCRIPTION

11/26/25 ISSUED FOR QA
02/20/26 ISSUED FOR PERMIT
02/20/26 ISSUED FOR BID
03/03/26 PERMIT COMMENTS 1

T. E. OF WA, INC.



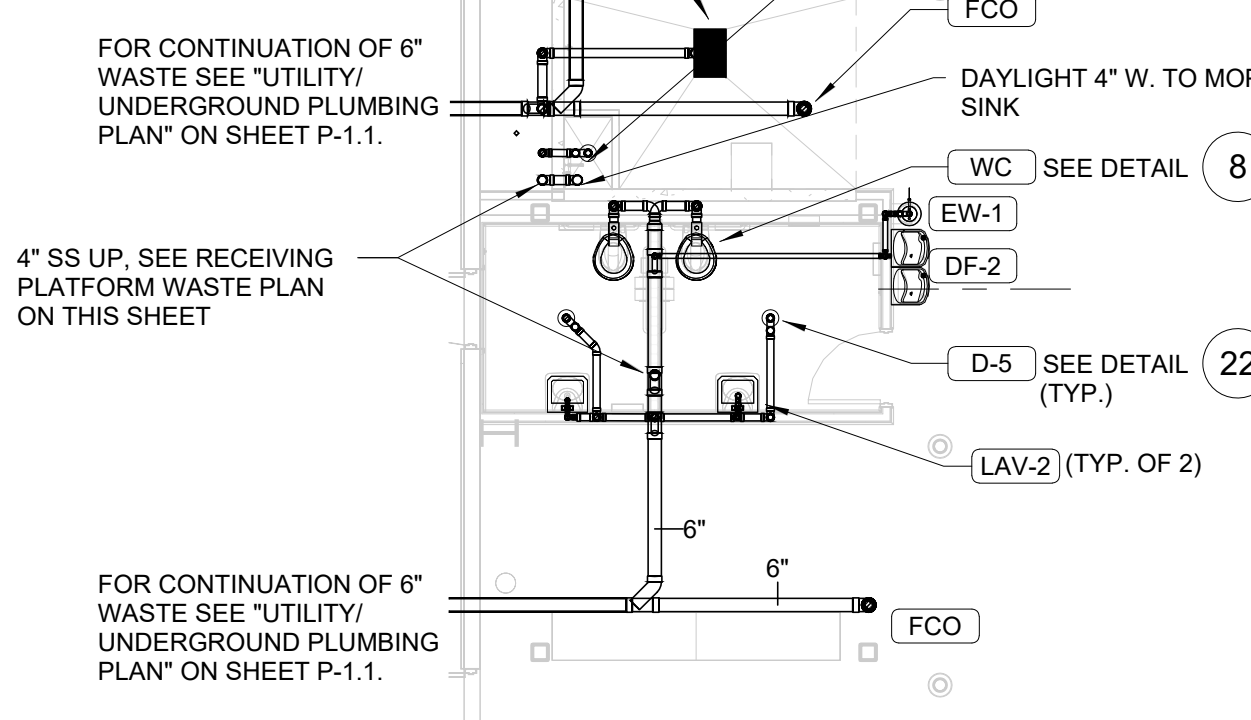
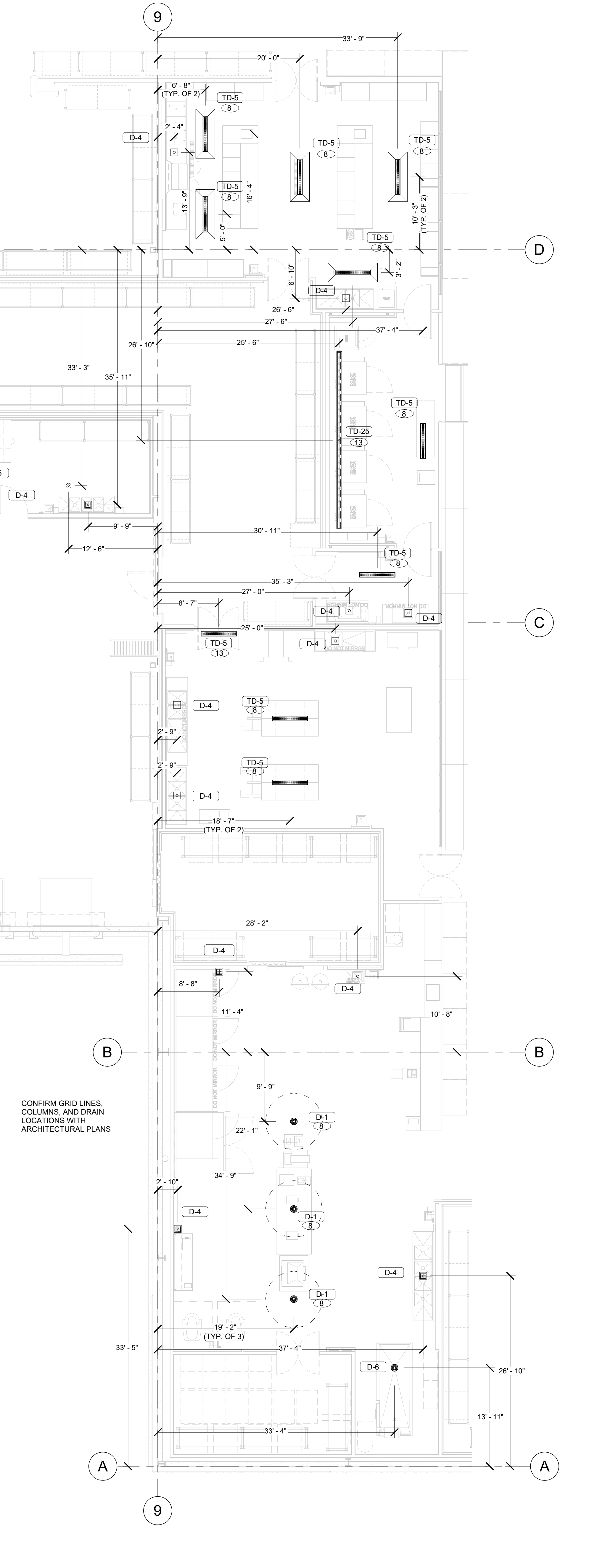
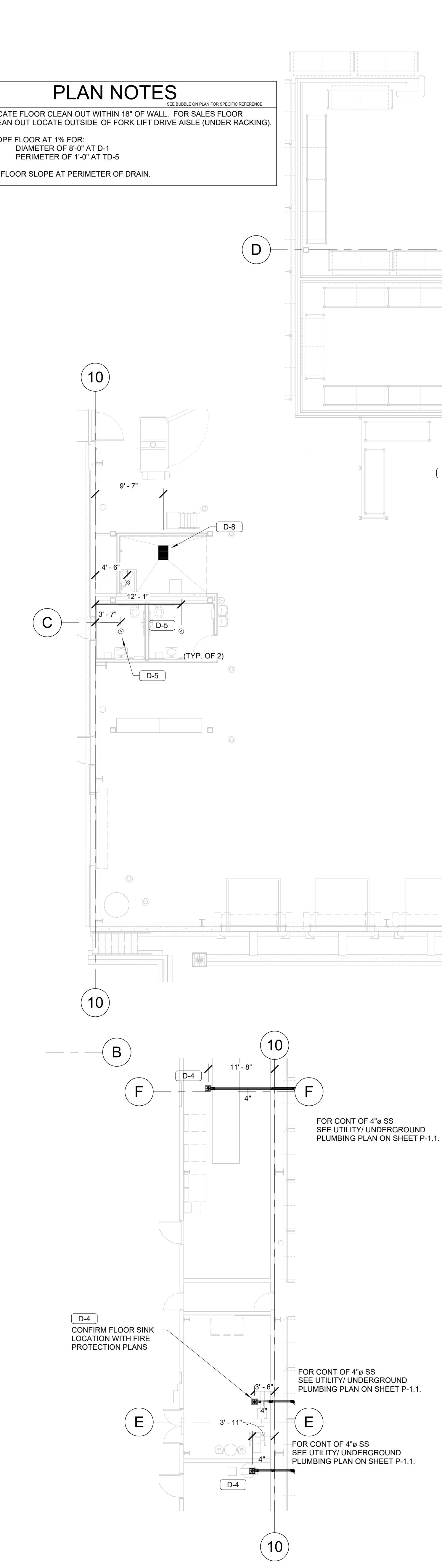
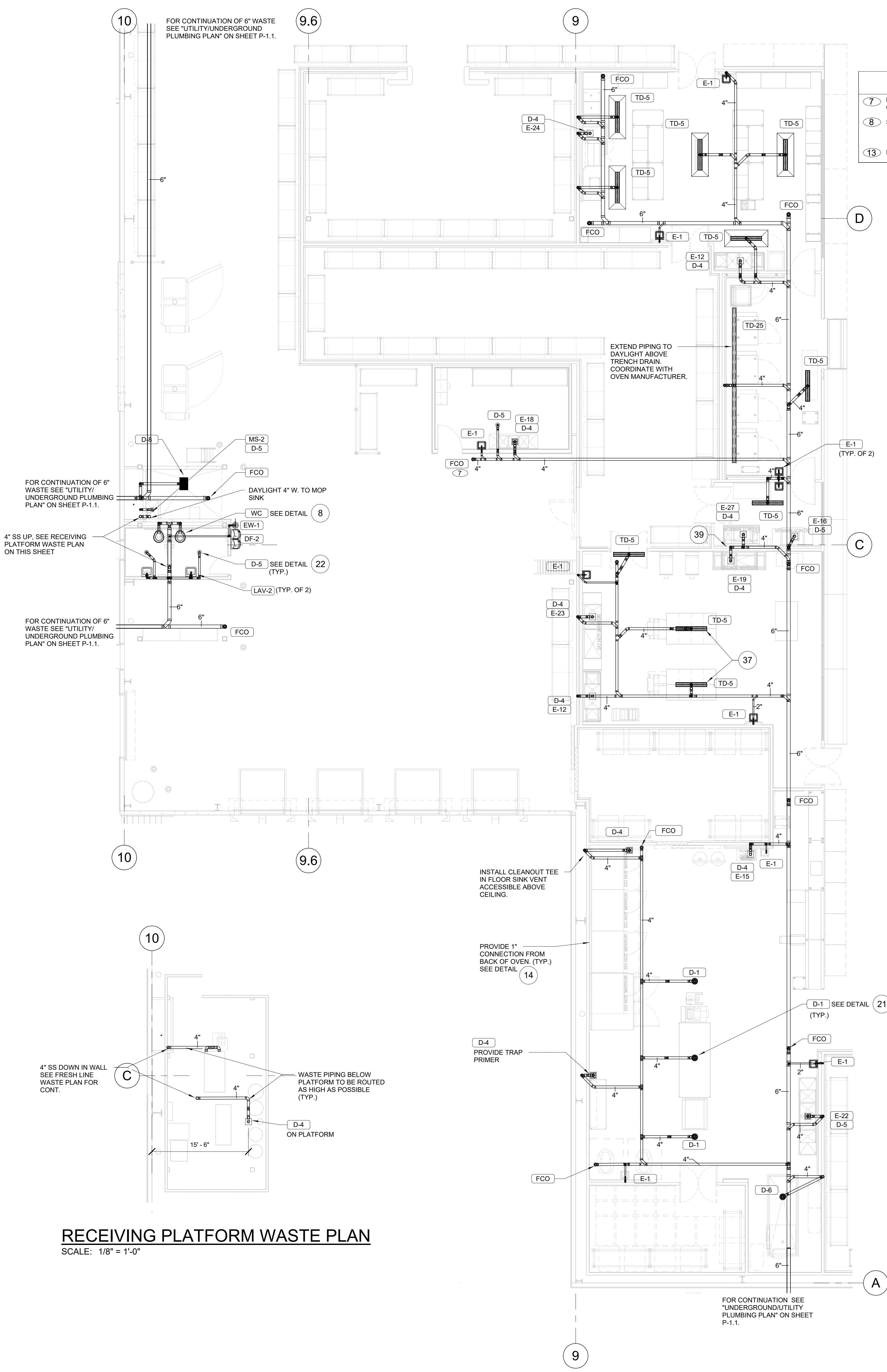
NEW WAREHOUSE
LEES SUMMIT, MO

TEI #: 25-346
PM: JAR
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

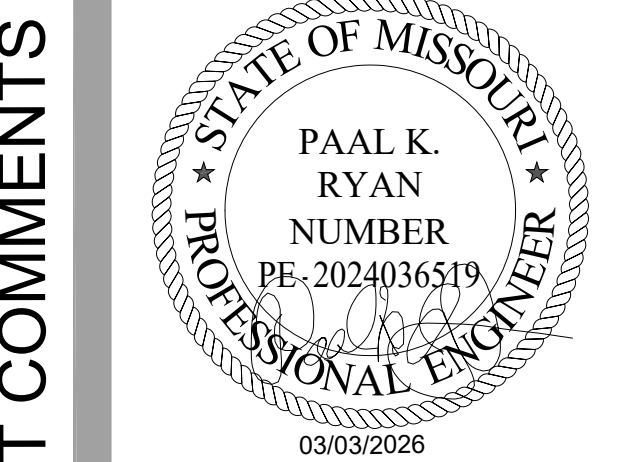
FRESH LINE WASTE & DRAIN PLANS

P-2.2

PLAN NOTES
 7 LOCATE FLOOR CLEAN OUT WITHIN 18" OF WALL. FOR SALES FLOOR CLEAN OUT LOCATE OUTSIDE OF FORK LIFT DRIVE AISLE (UNDER RACKING).
 8 SLOPE FLOOR AT 1% FOR: DIAMETER OF 8"-0" AT D-1 PERIMETER OF 1'-0" AT TD-5
 13 NO FLOOR SLOPE AT PERIMETER OF DRAIN.



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PERMIT COMMENTS

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/22/25	ISSUED FOR PERMIT
02/10/26	ISSUED FOR AIR
03/03/26	PERMIT COMMENTS 1

T.E. OF WA, INC.
 930 N. RIVERSTIDE DRIVE
 SUITE #200
 LEES SUMMIT, MO 64062
 PHONE: 417-470-9753
 FAX: 417-470-9756

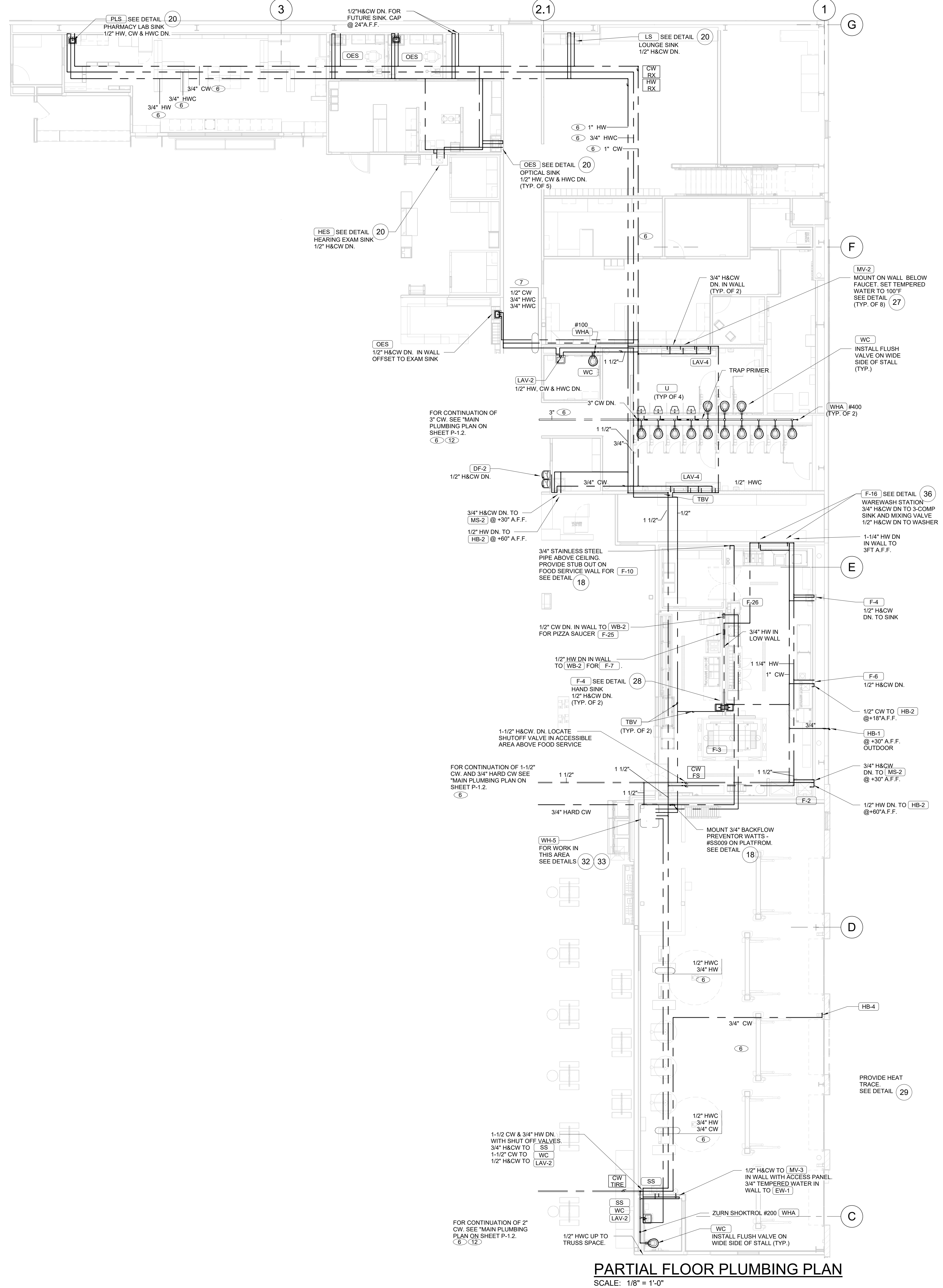
NEW WAREHOUSE
 LEES SUMMIT, MO



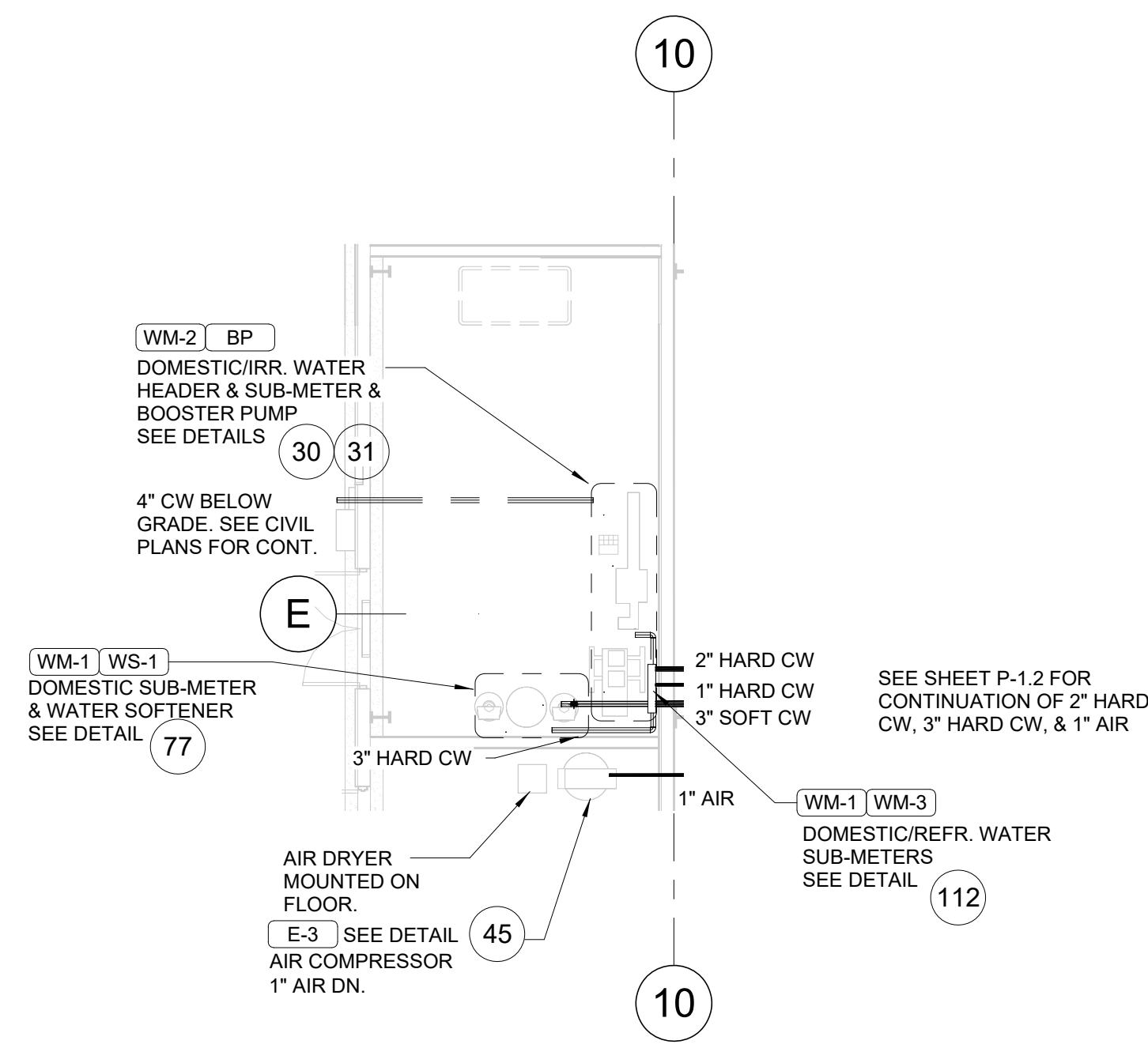
TEI #: 25-346
 PM: JAR
 CHECKED BY: PKR/ANT
 ISSUED: 11/26/24

ENLARGED PLUMBING PLANS

P-3.1

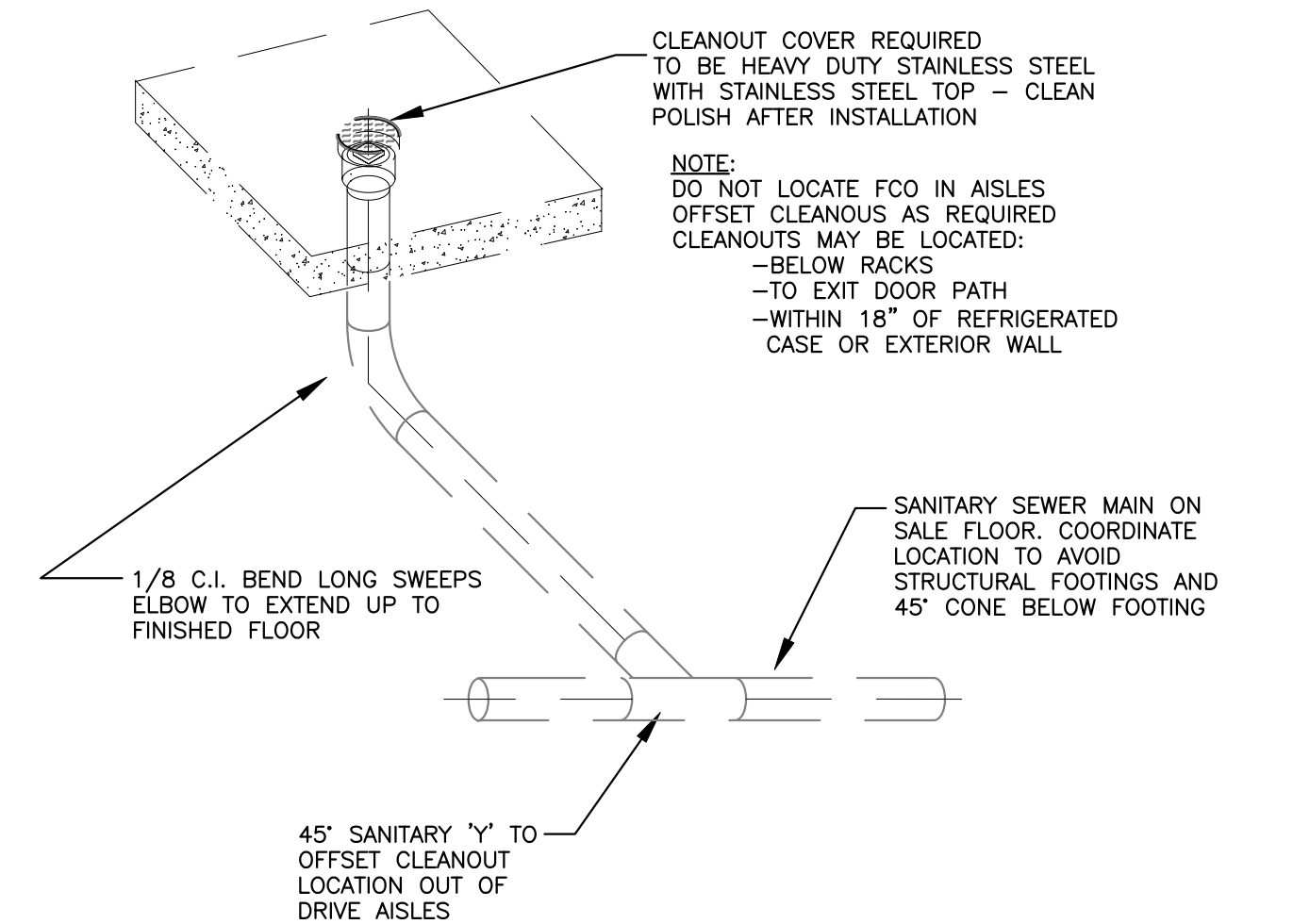


- PLAN NOTES**
- ⑥ PIPING IN ROOF TRUSS SPACE TO BE RUN PERPENDICULAR OR PARALLEL TO BUILDING JOIST OR GIRDERS, FOR PASSING BELOW SOLID GIRDERS MOUNT PIPING 6" MAXIMUM FROM BOTTOM OF GIRDER. DO NOT BLOCK LIGHTING & SKYLIGHTS.
 - ⑦ ROUTE WATER PIPING IN HEADER ACROSS HALLWAY
 - ⑩ DO NOT LOCATE ANY PIPING ABOVE REFRIGERATION RACK OR IN 10'-0" REFRIGERATION PIPE-WAY TO SALES FLOOR COOLERS. VERIFY PIPE-WAY LOCATION IN ARCH. DRAWINGS.
 - ⑪ VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
 - ⑫ PROVIDE THRUST BLOCKS FOR DOMESTIC WATER PIPING PER DETAIL 10P.

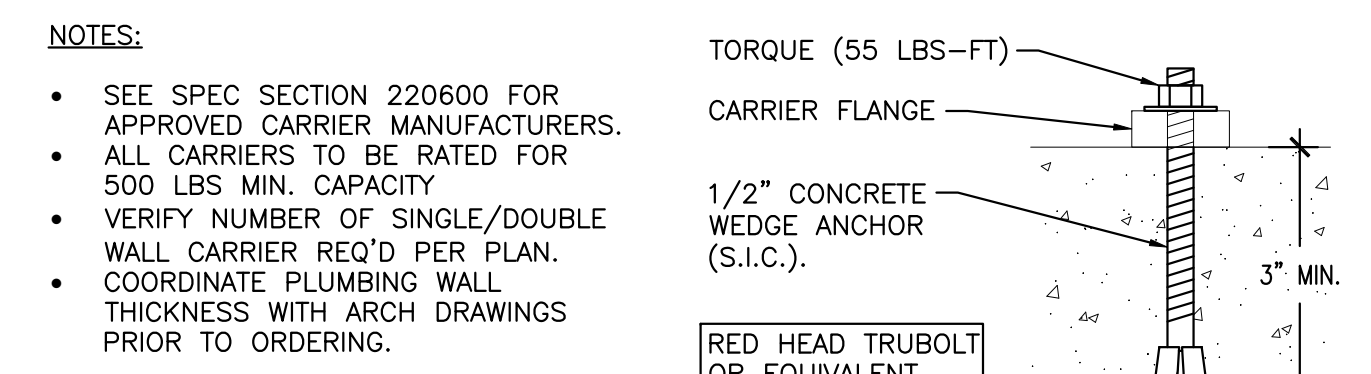


MECHANICAL ROOM PLUMBING PLAN
 SCALE: 1/8" = 1'-0"

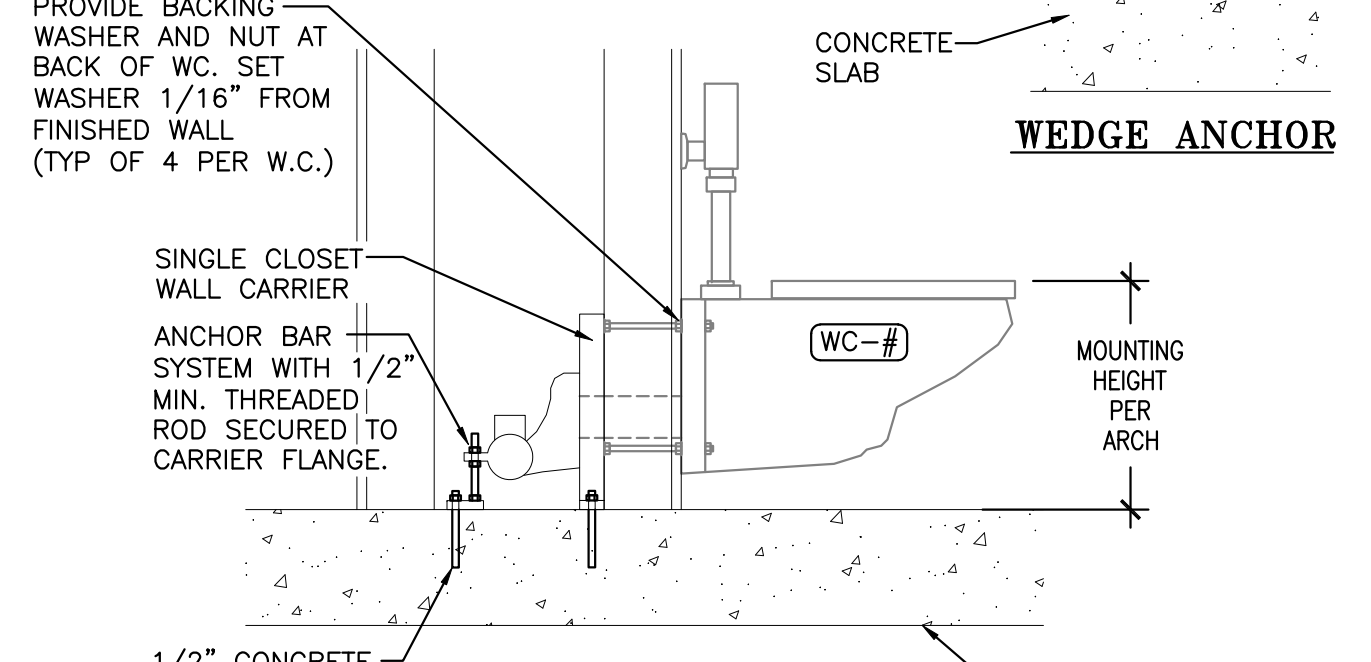
PARTIAL FLOOR PLUMBING PLAN
 SCALE: 1/8" = 1'-0"



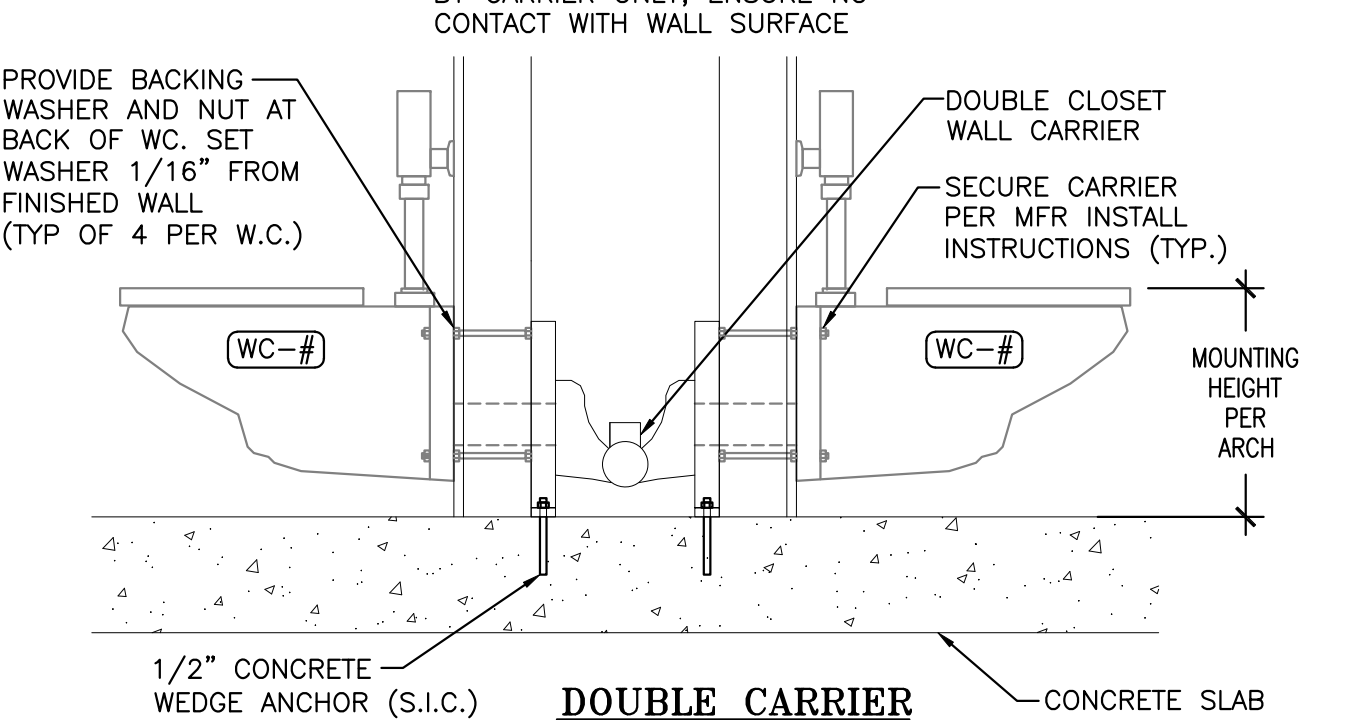
SALES FLOOR CLEAN OUT OFFSET DETAIL (002)
SCALE: NONE REV: SI/12-24/24-000



WEDGE ANCHOR (002)

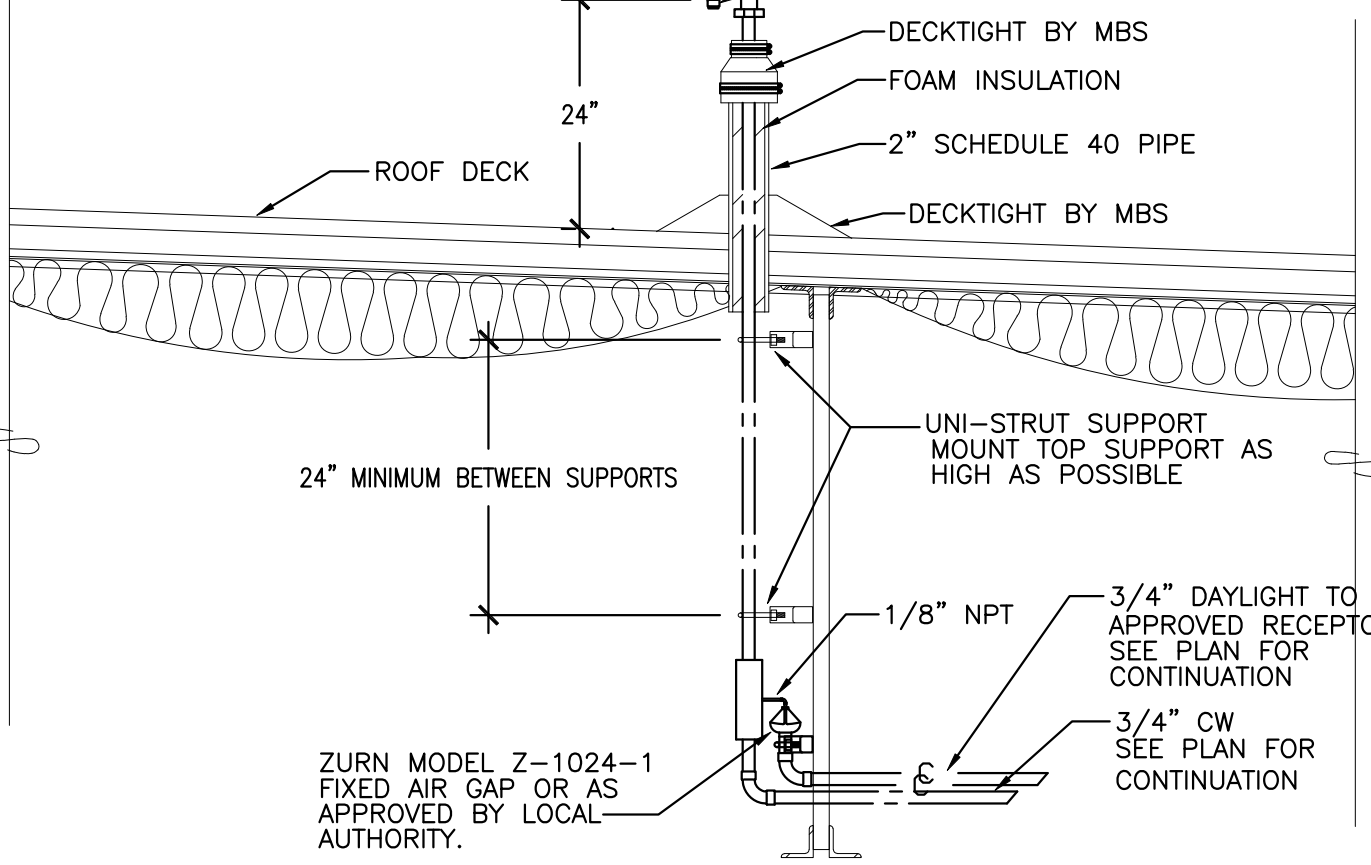


SINGLE CARRIER (002)

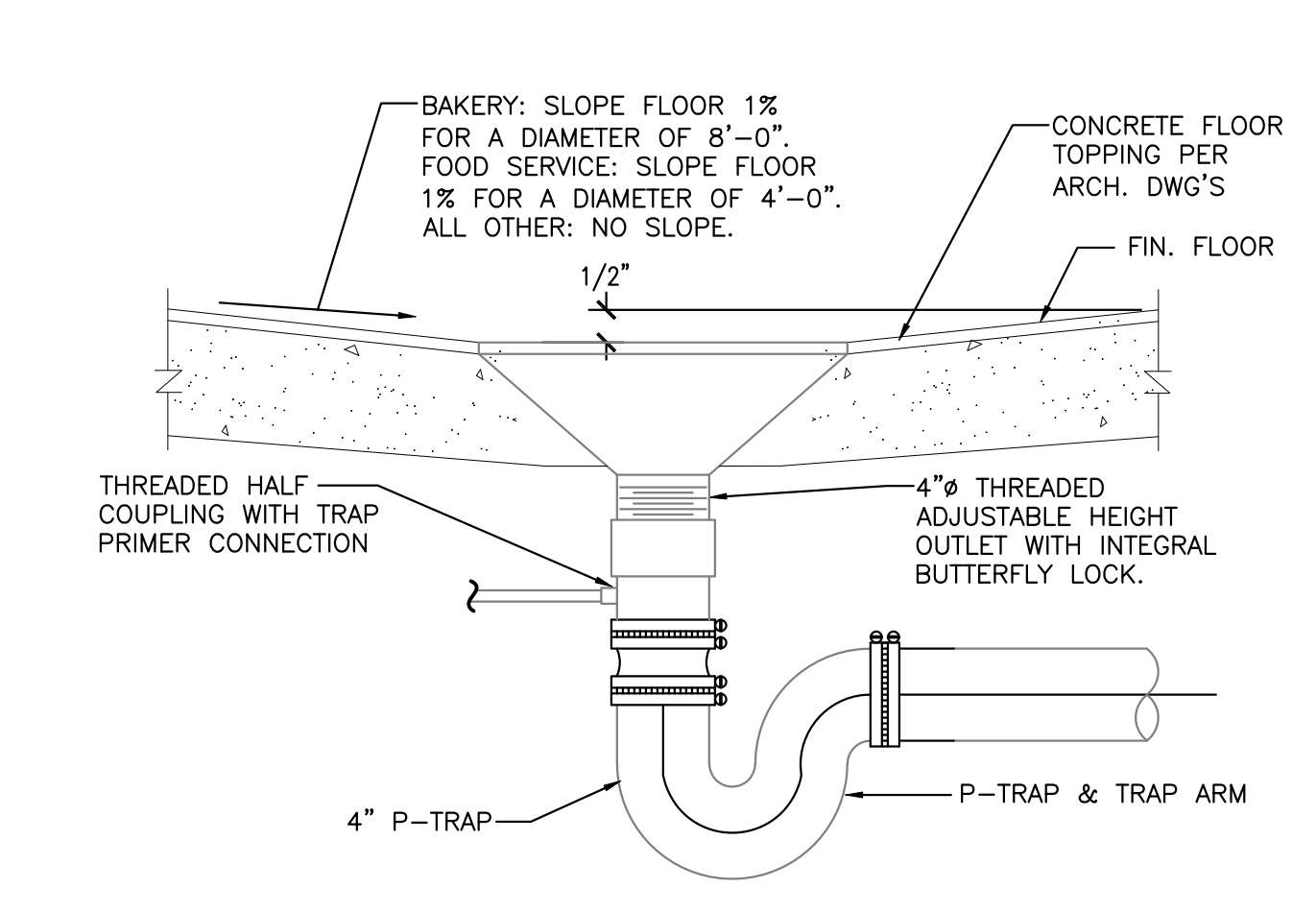


DOUBLE CARRIER (002)

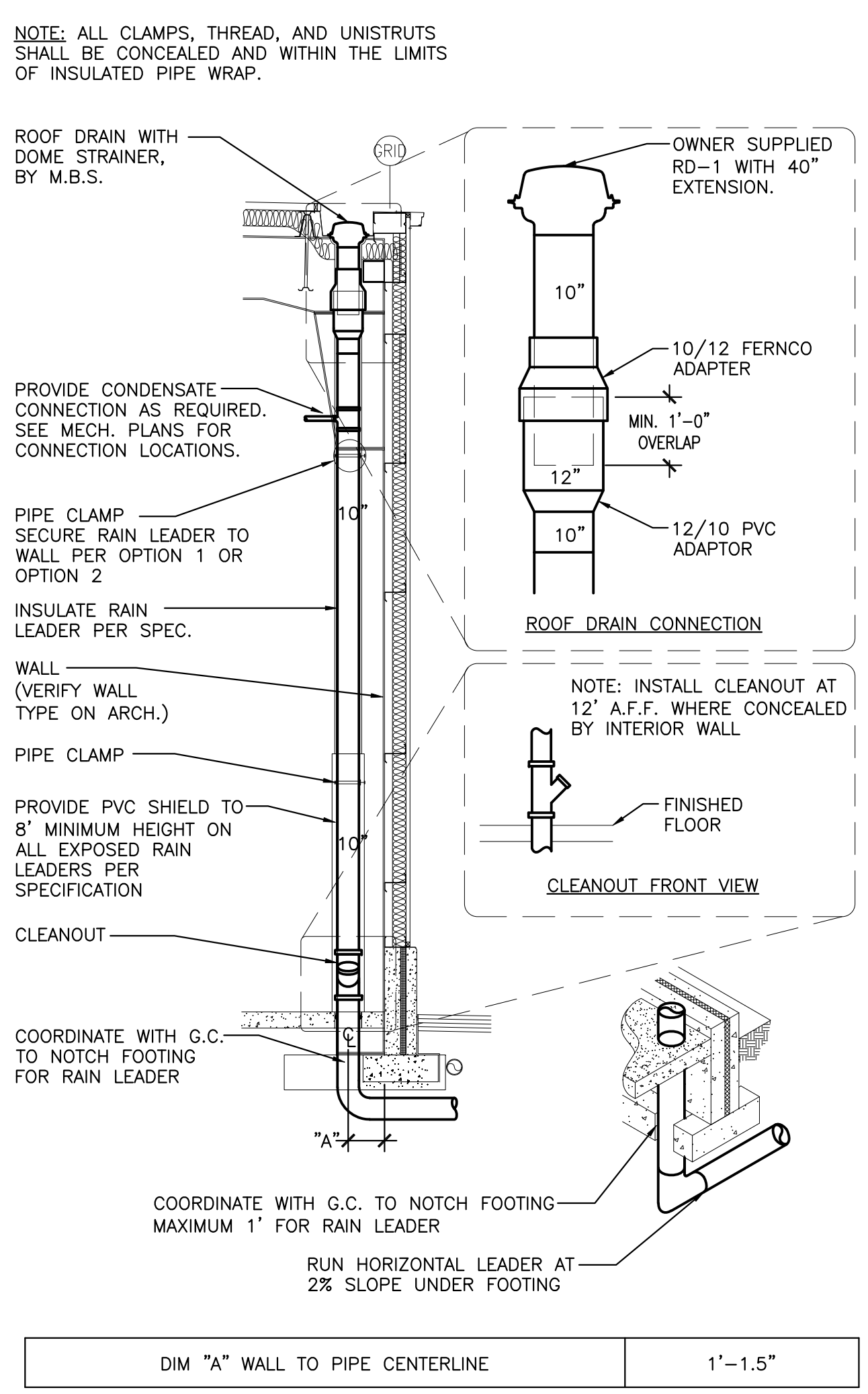
WATER CLOSET CARRIERS (008)
SCALE: NONE REV: SI/10-24/24-000



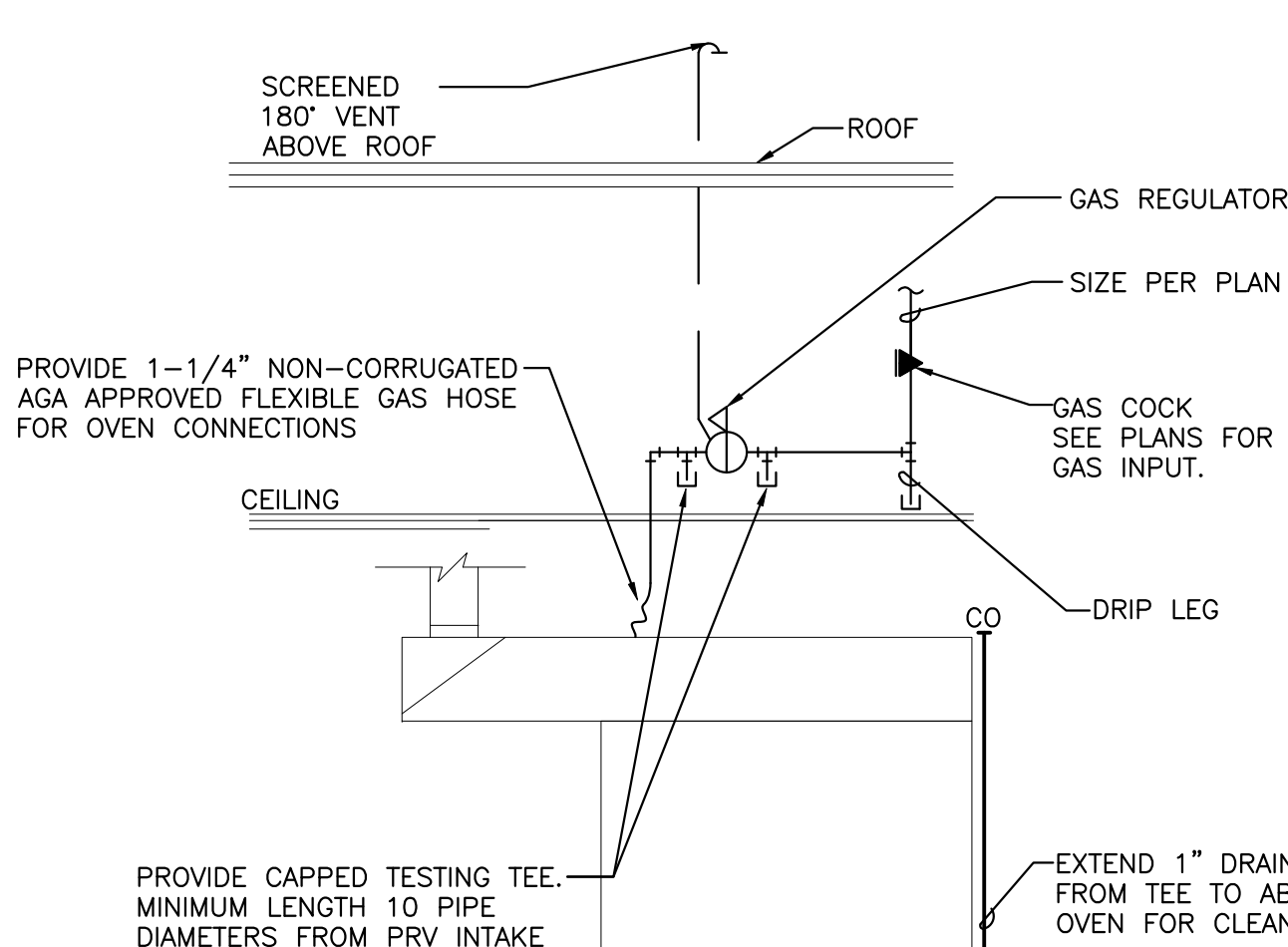
ROOF MOUNTED HOSE BIBB (HB-5) (017)
SCALE: NONE REV: SI/10-24/24-000



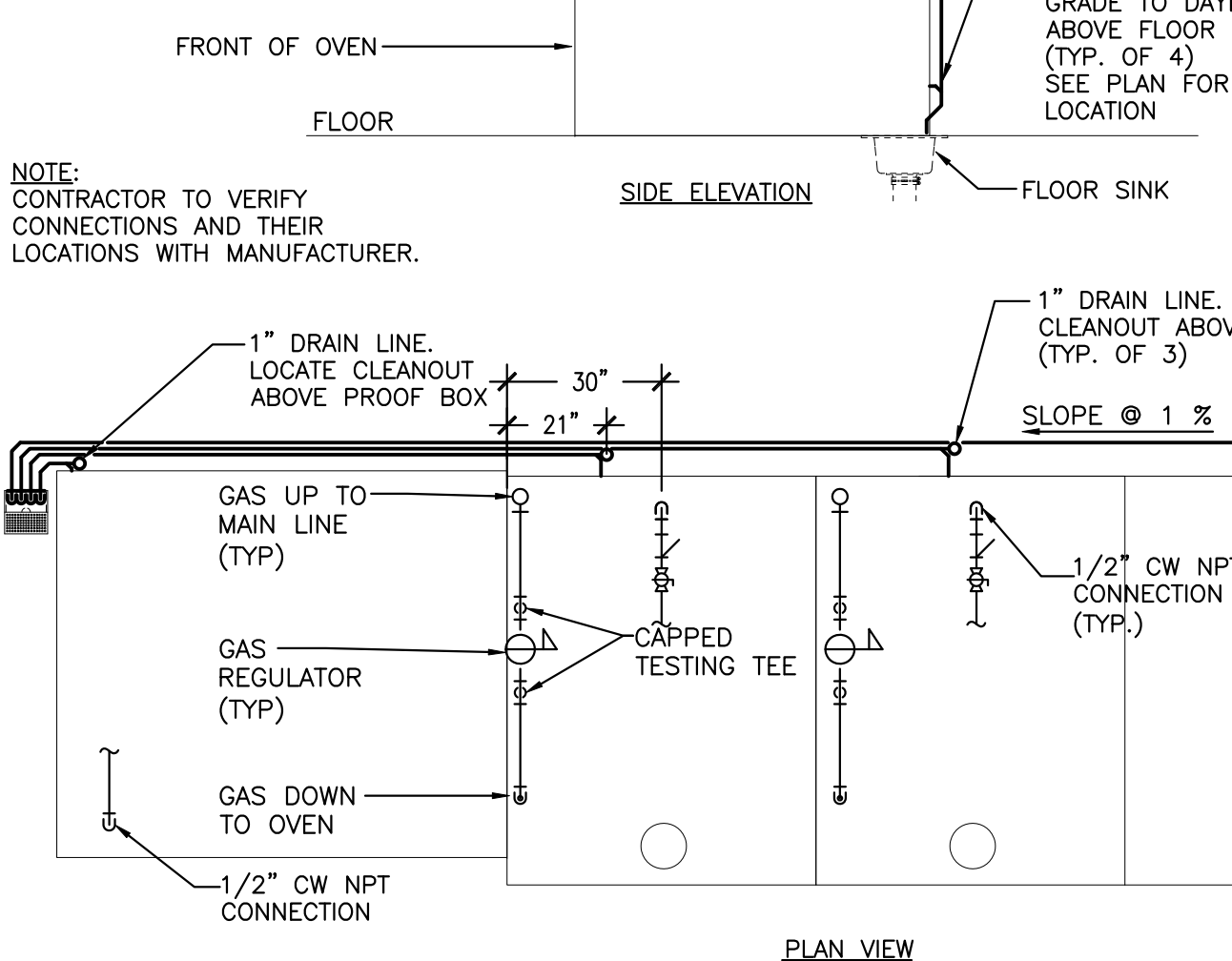
FLOOR DRAIN TYPE D-1 (021)
SCALE: NONE REV: SI/11-24/24-000



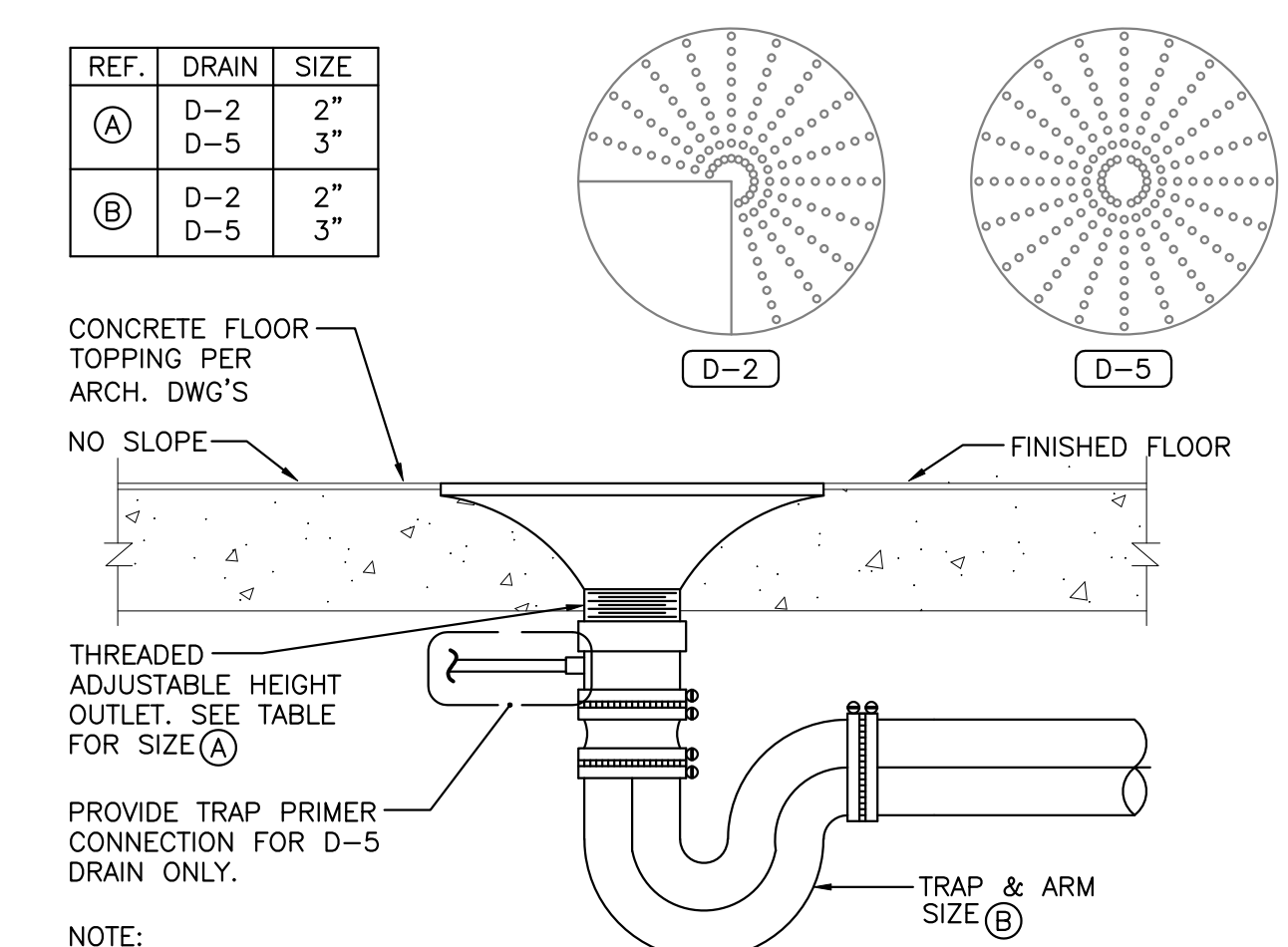
ROOF DRAIN WALL DETAIL (007)
SCALE: NONE REV: SI/12-24/Master



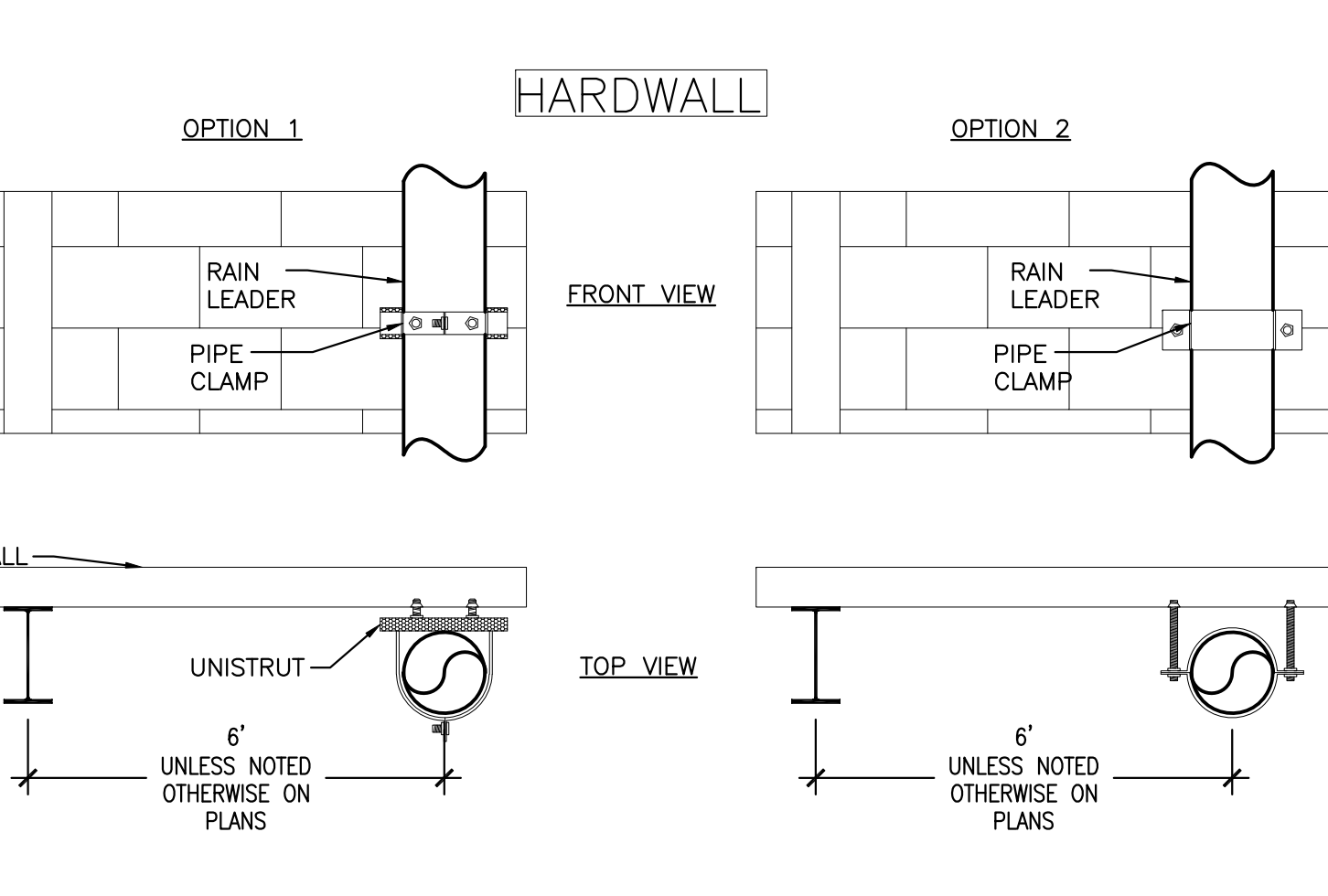
PIZZA OVEN PIPING DETAIL (015)
SCALE: NONE REV: SI/10-24/24-000



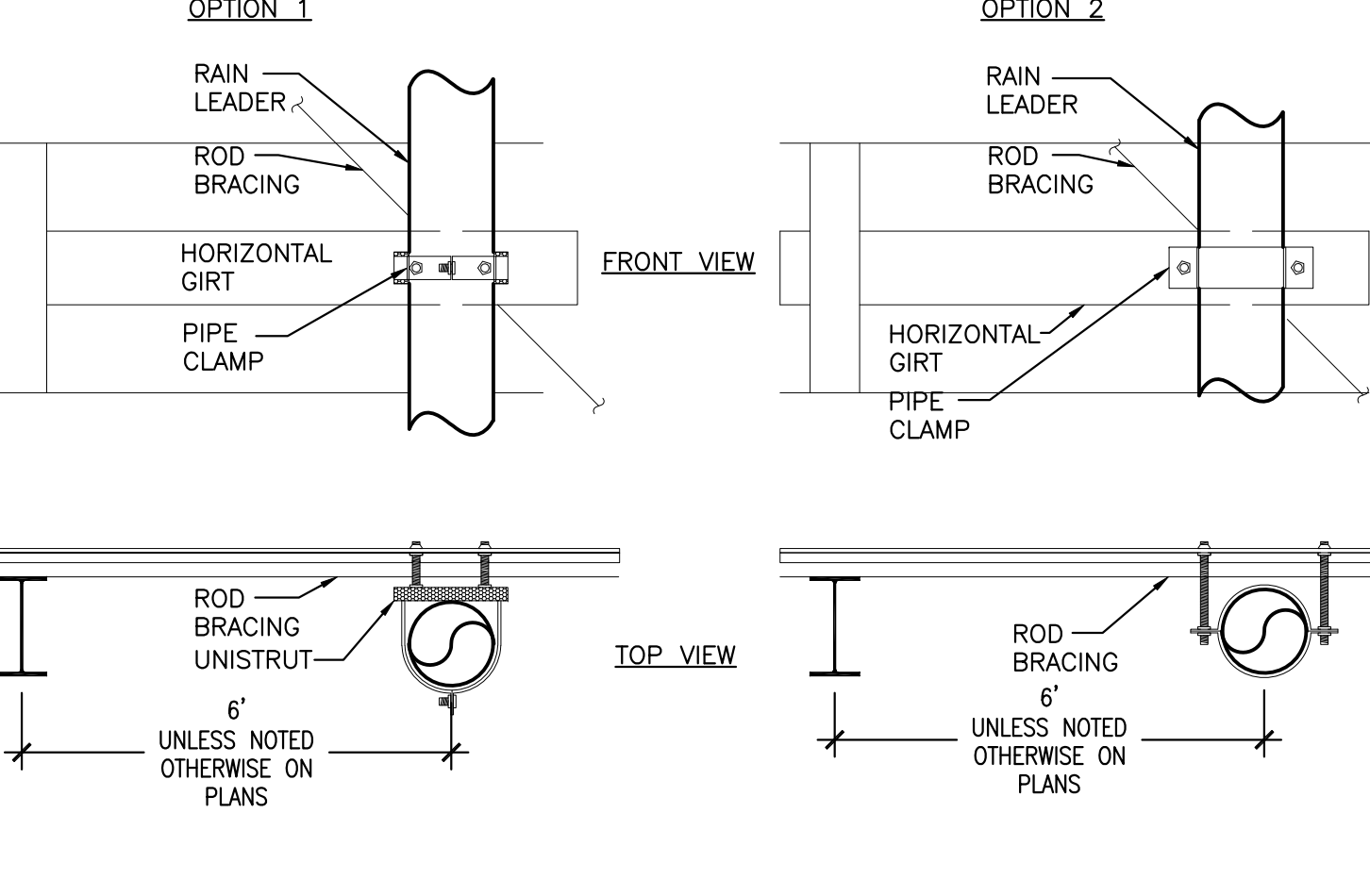
OVEN DETAIL E-7 (014)
SCALE: NONE REV: SI/11-25/Master



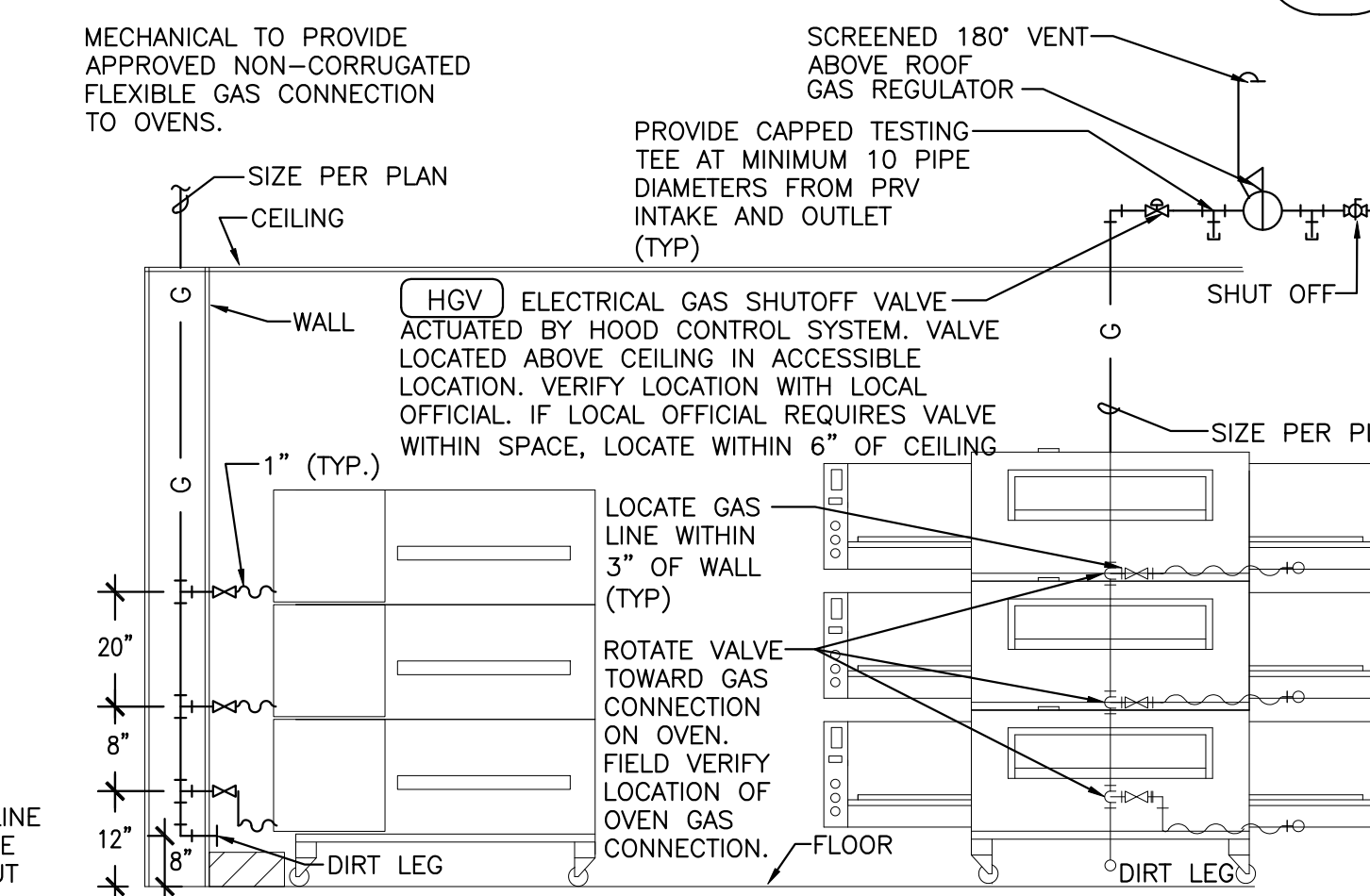
FLOOR DRAIN D-2 & D-5 (022)
SCALE: NONE REV: SI/10-24/24-000



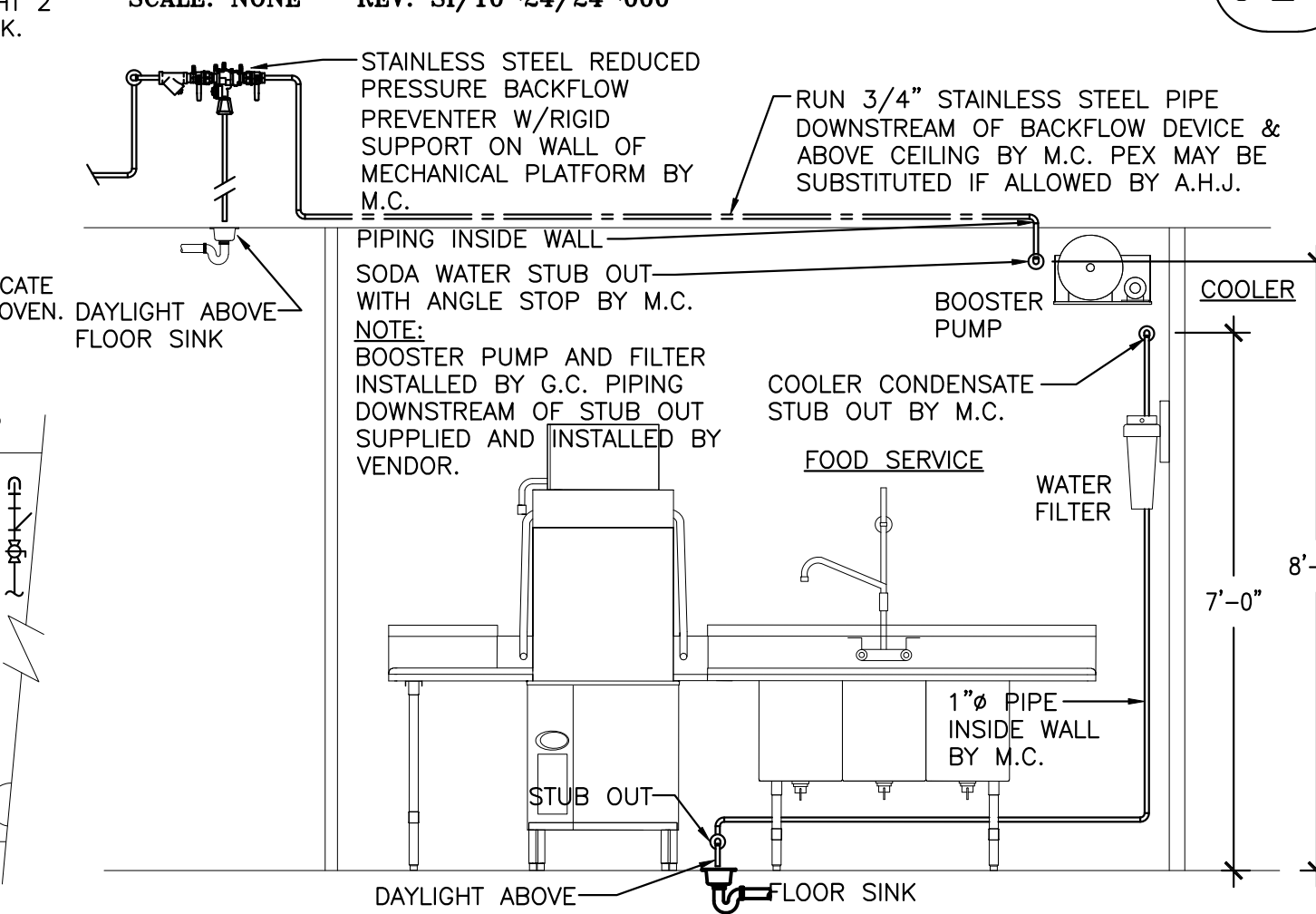
HARDWALL (007)



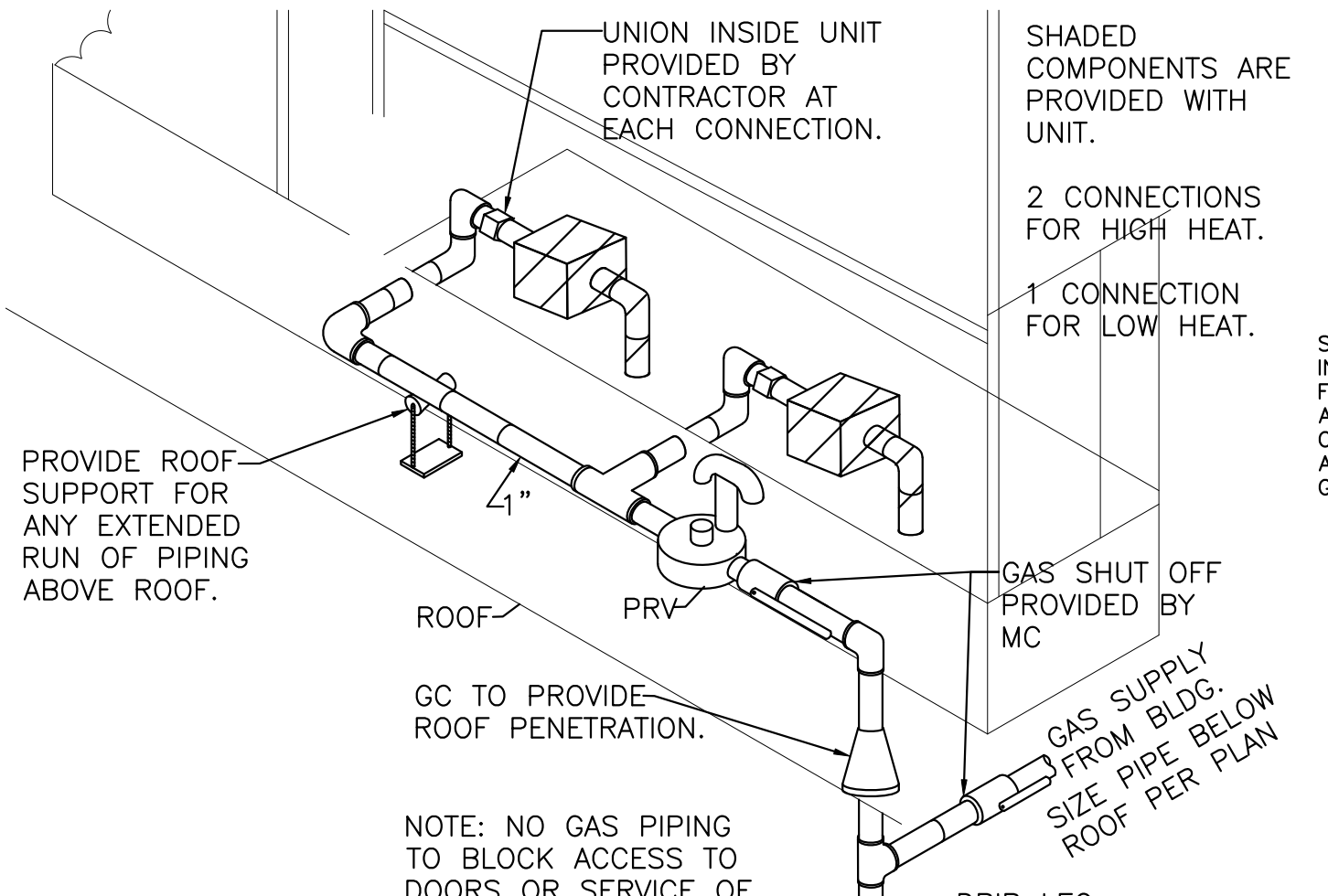
METAL WALL (007)



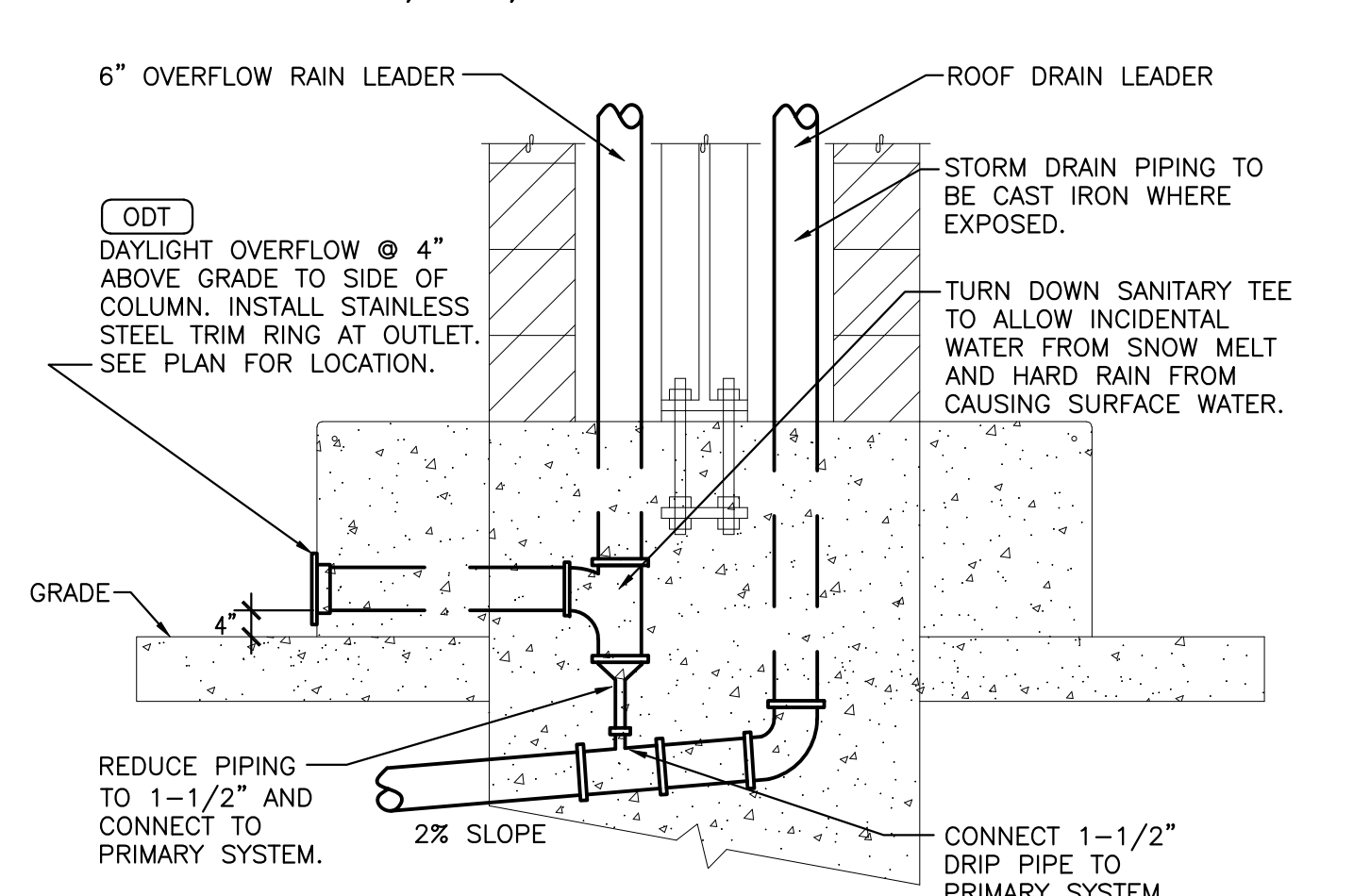
SODA ALCOVE PIPING DETAIL (018)
SCALE: NONE REV: SI/10-24/24-000



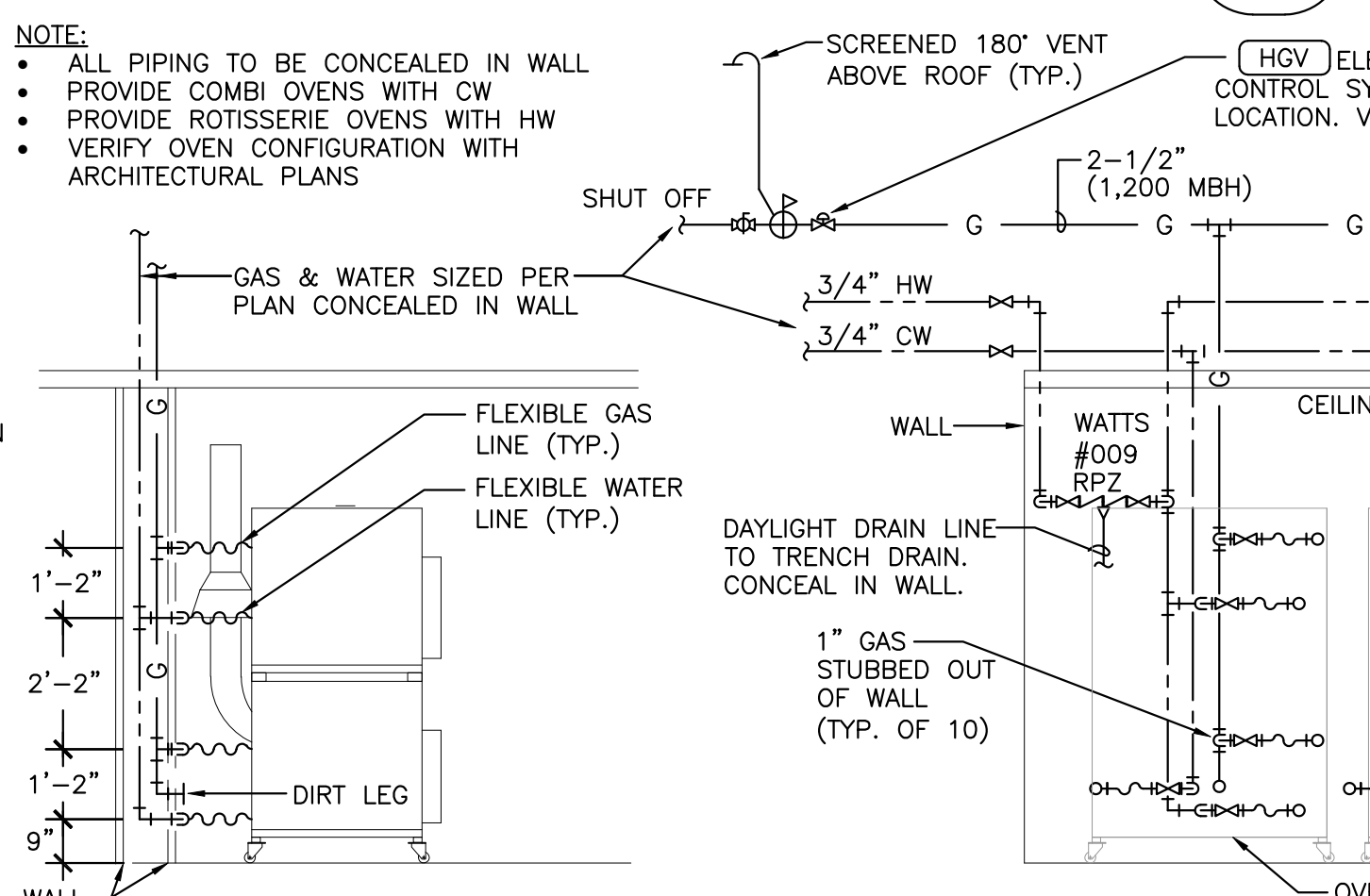
POWER WASH SINK (E-23) (022)
SCALE: NONE REV: SI/12-24/Master



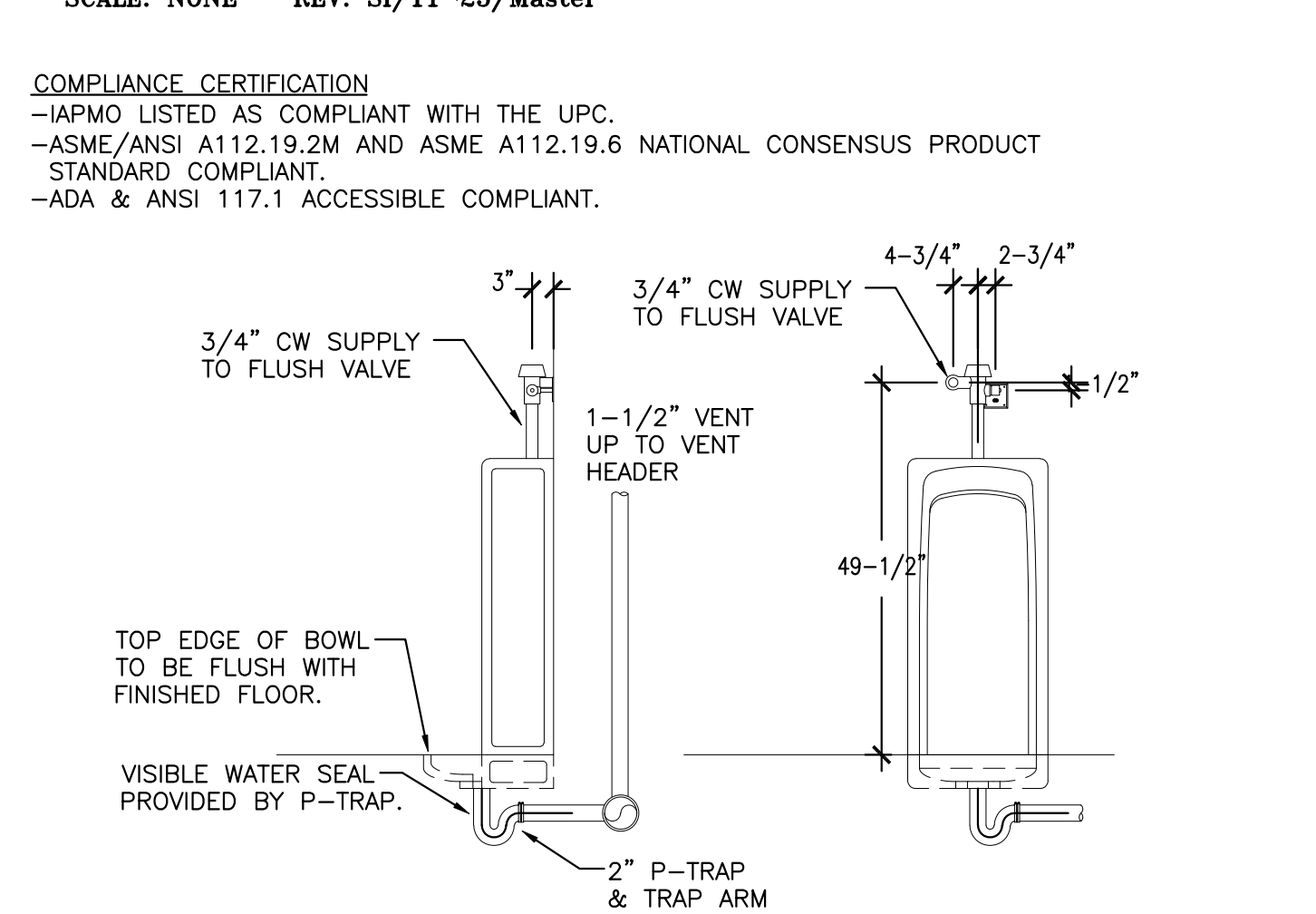
AC GAS PIPING DIAGRAM (011)
SCALE: NONE REV: SI/11-25/Master



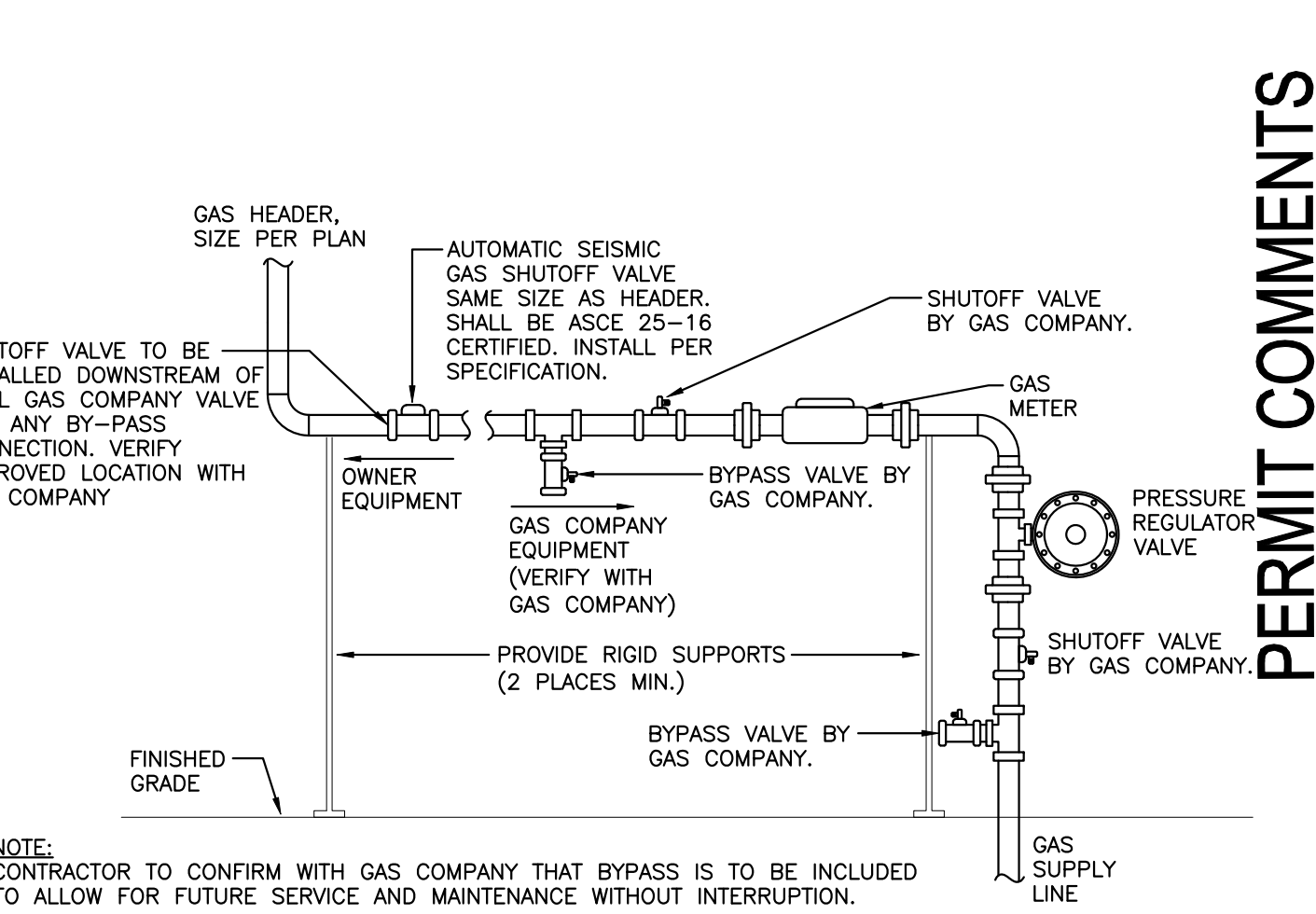
OVERFLOW DRIP PROOFING DETAIL (006)
SCALE: NONE REV: SI/10-24/24-000



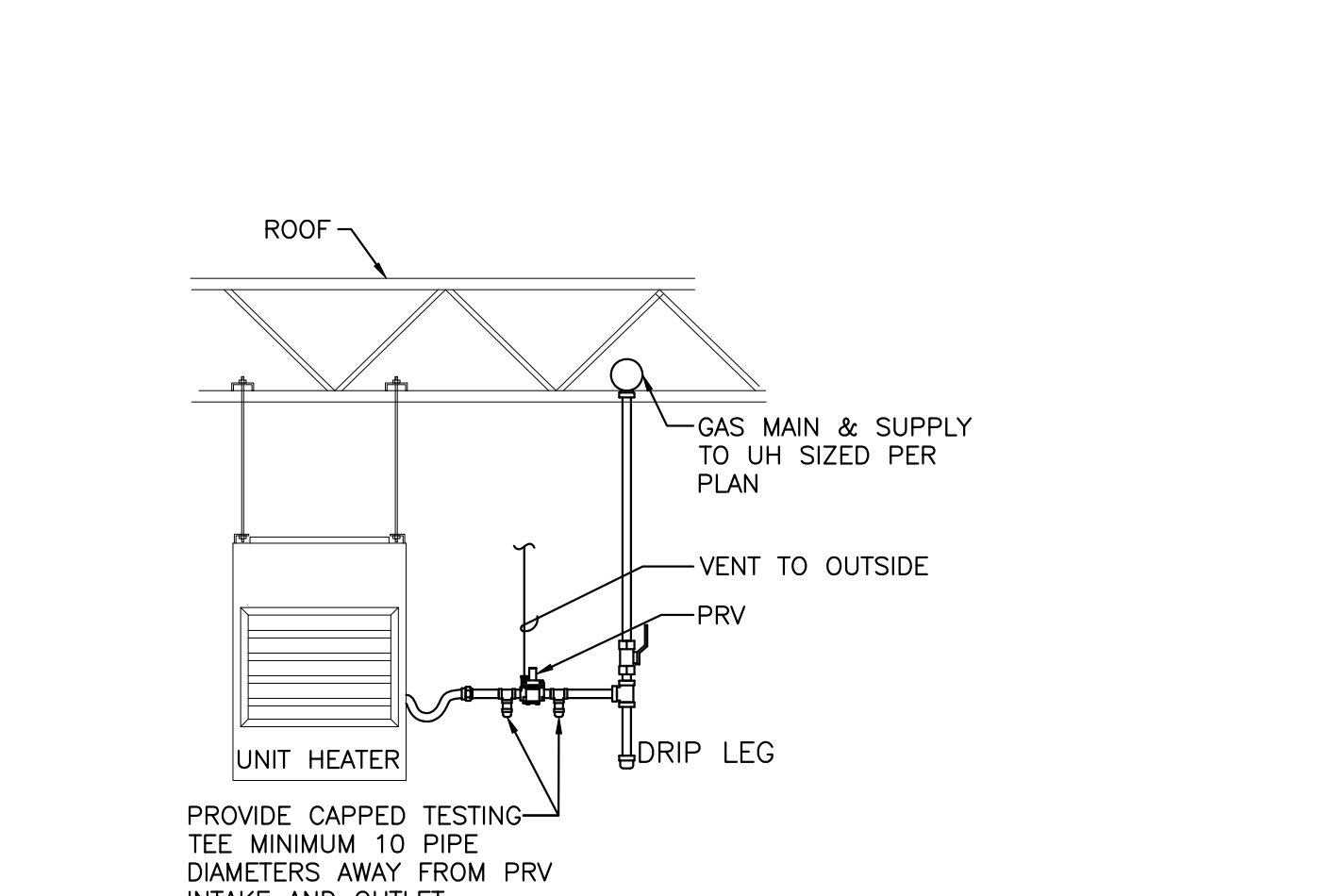
ROTISSERIE OVEN PIPING DETAIL (016)
SCALE: NONE REV: SI/11-25/Master



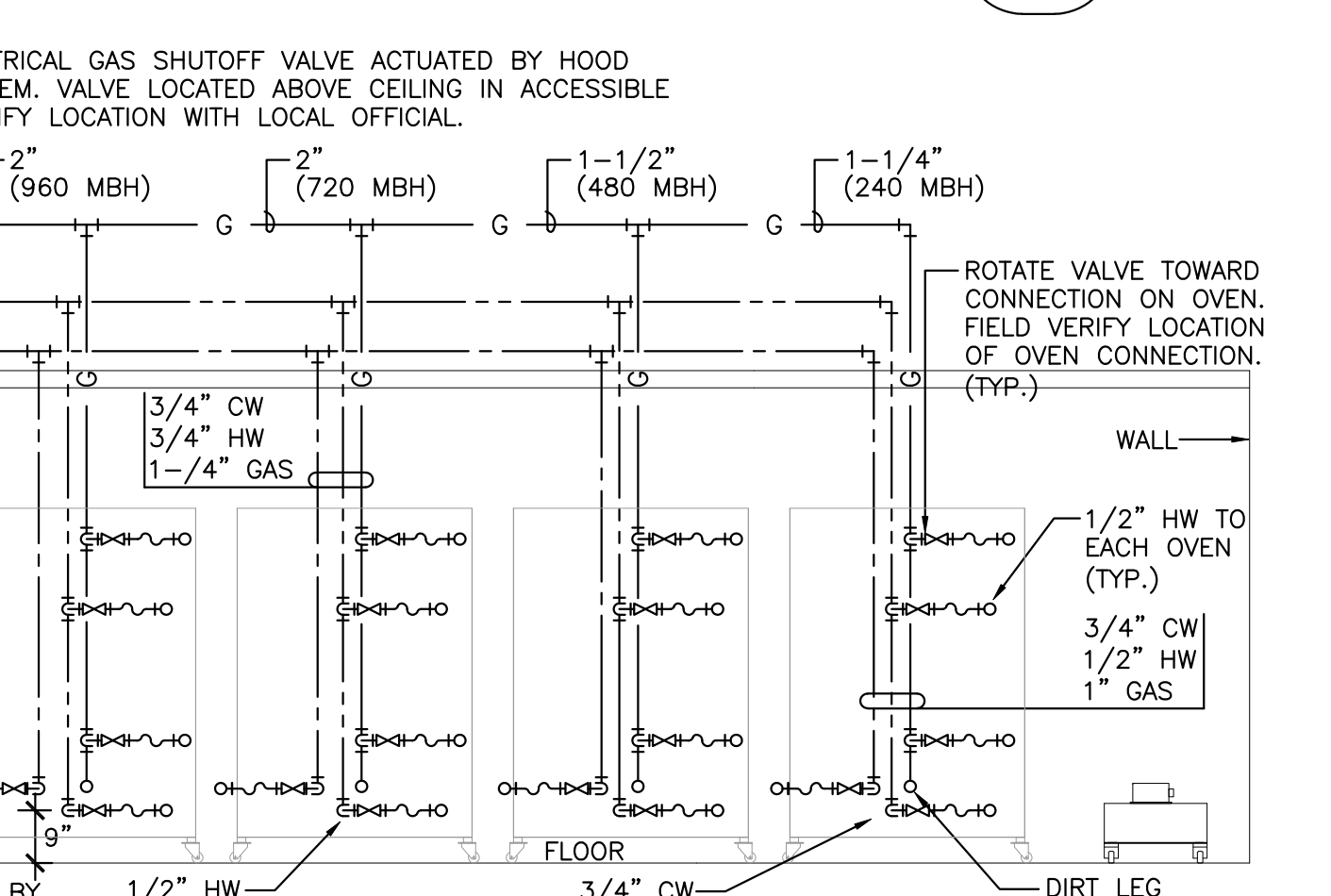
FLOOR MOUNTED URINAL DETAIL (019)
SCALE: NONE REV: SI/10-24/24-000



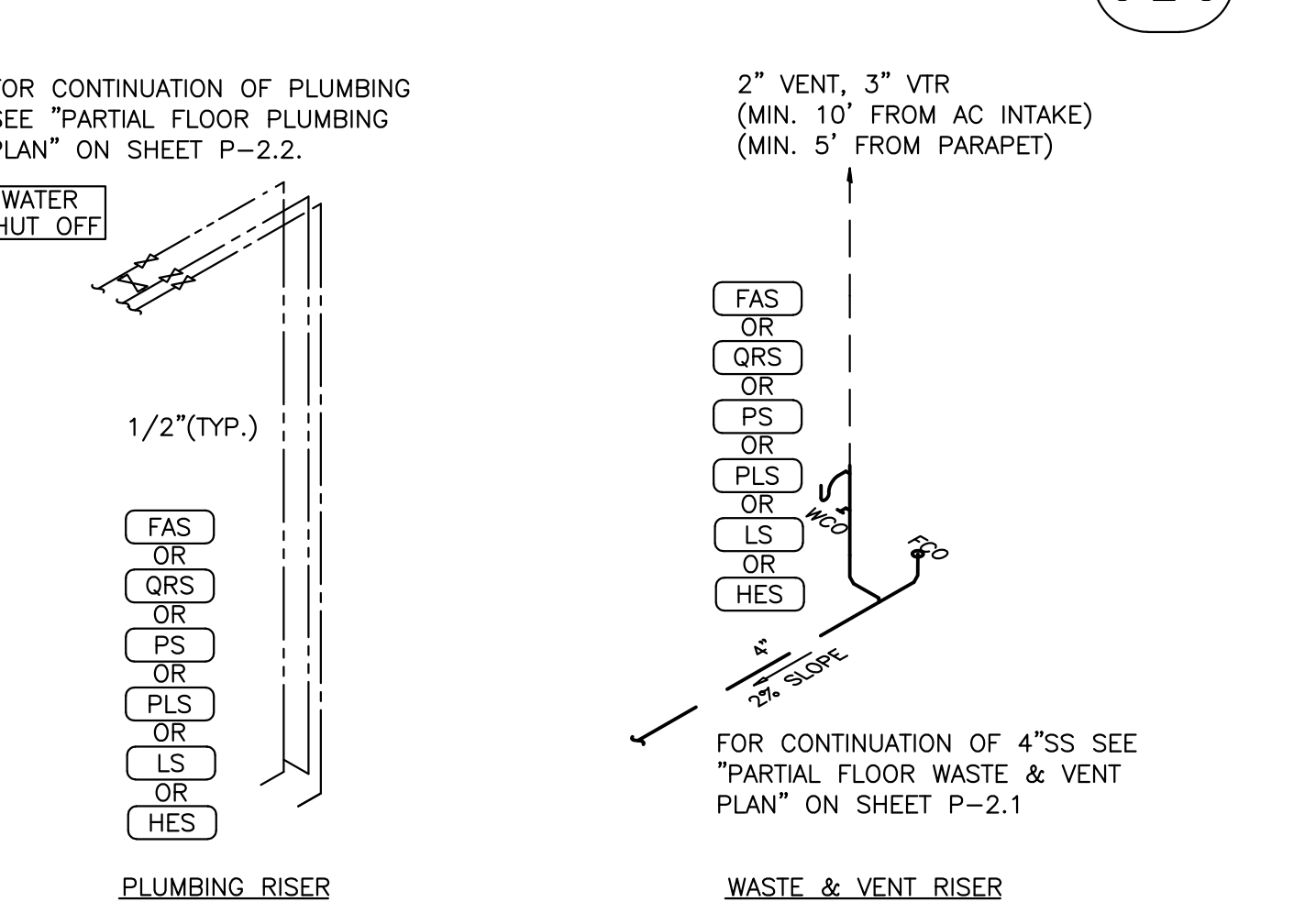
AUTOMATIC GAS SEISMIC SHUTOFF DETAIL (012)
SCALE: NONE REV: SI/11-24/24-000



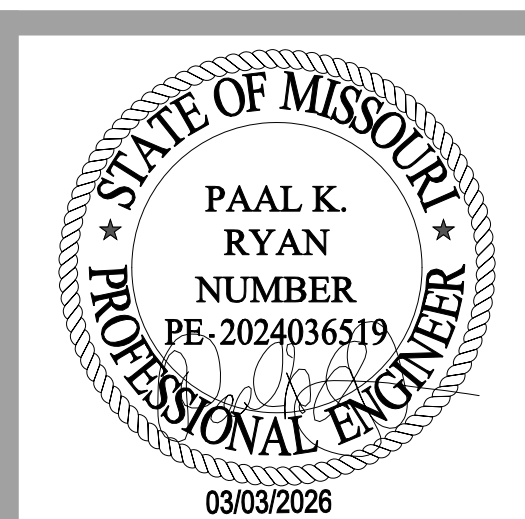
UNIT HEATER GAS PIPING DIAGRAM (013)
SCALE: NONE REV: SI/10-24/24-000



COUNTER SINK PIPING DIAGRAM (020)
SCALE: NONE REV: PR/01-25/Master



TRIPLE COMPARTMENT SINK (E-18) (025)
SCALE: NONE REV: SI/10-24/24-000



PERMIT COMMENTS

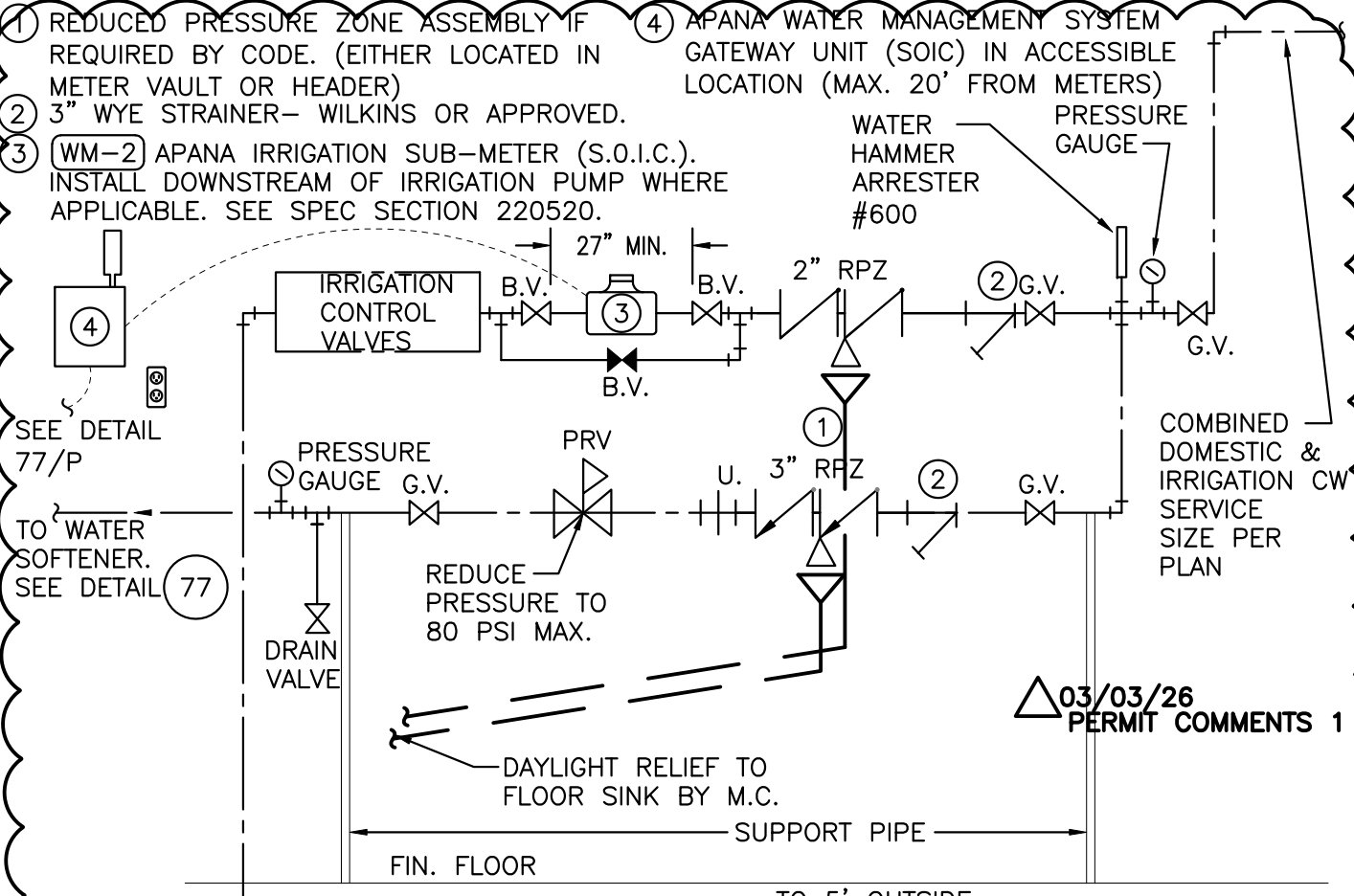
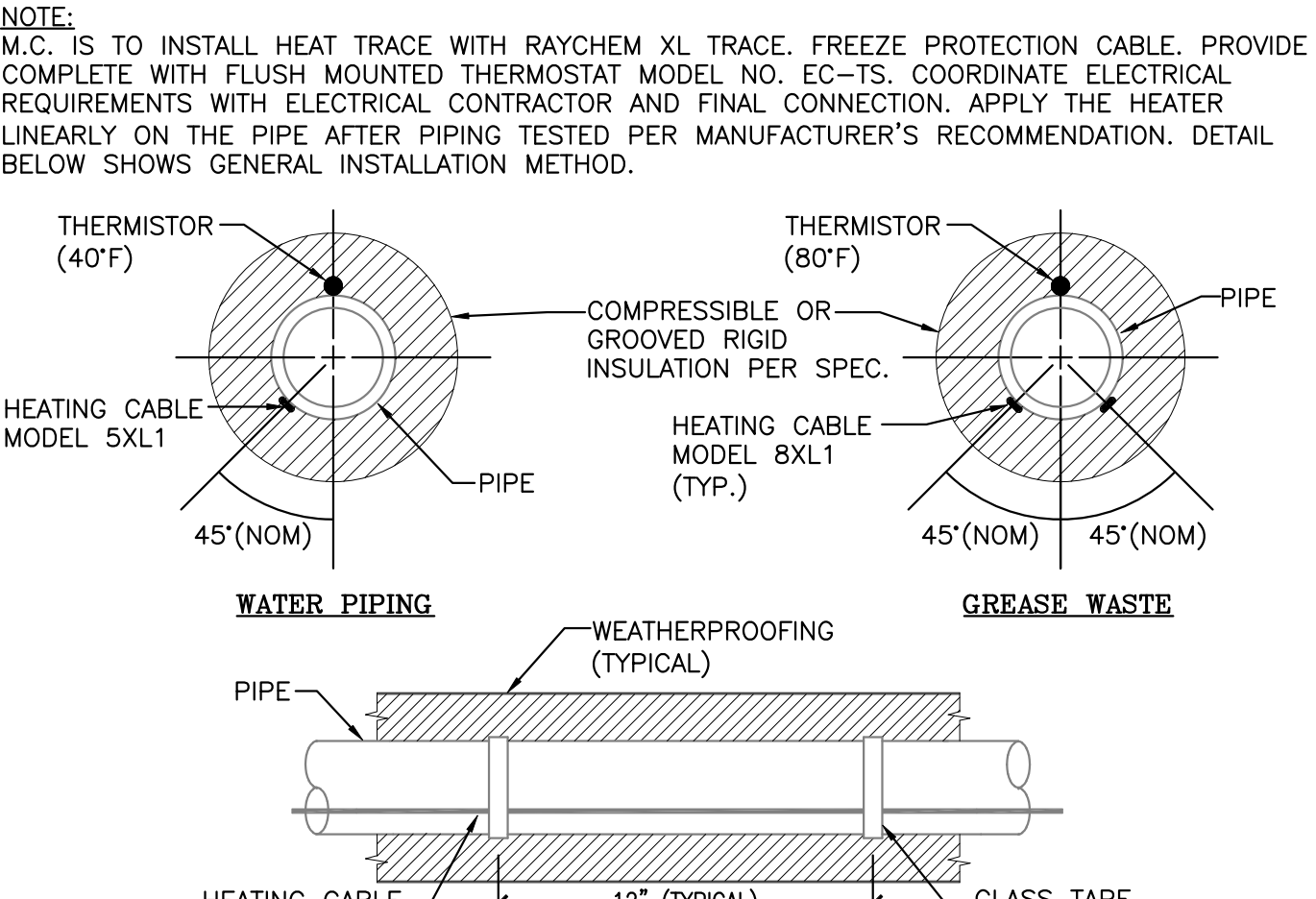
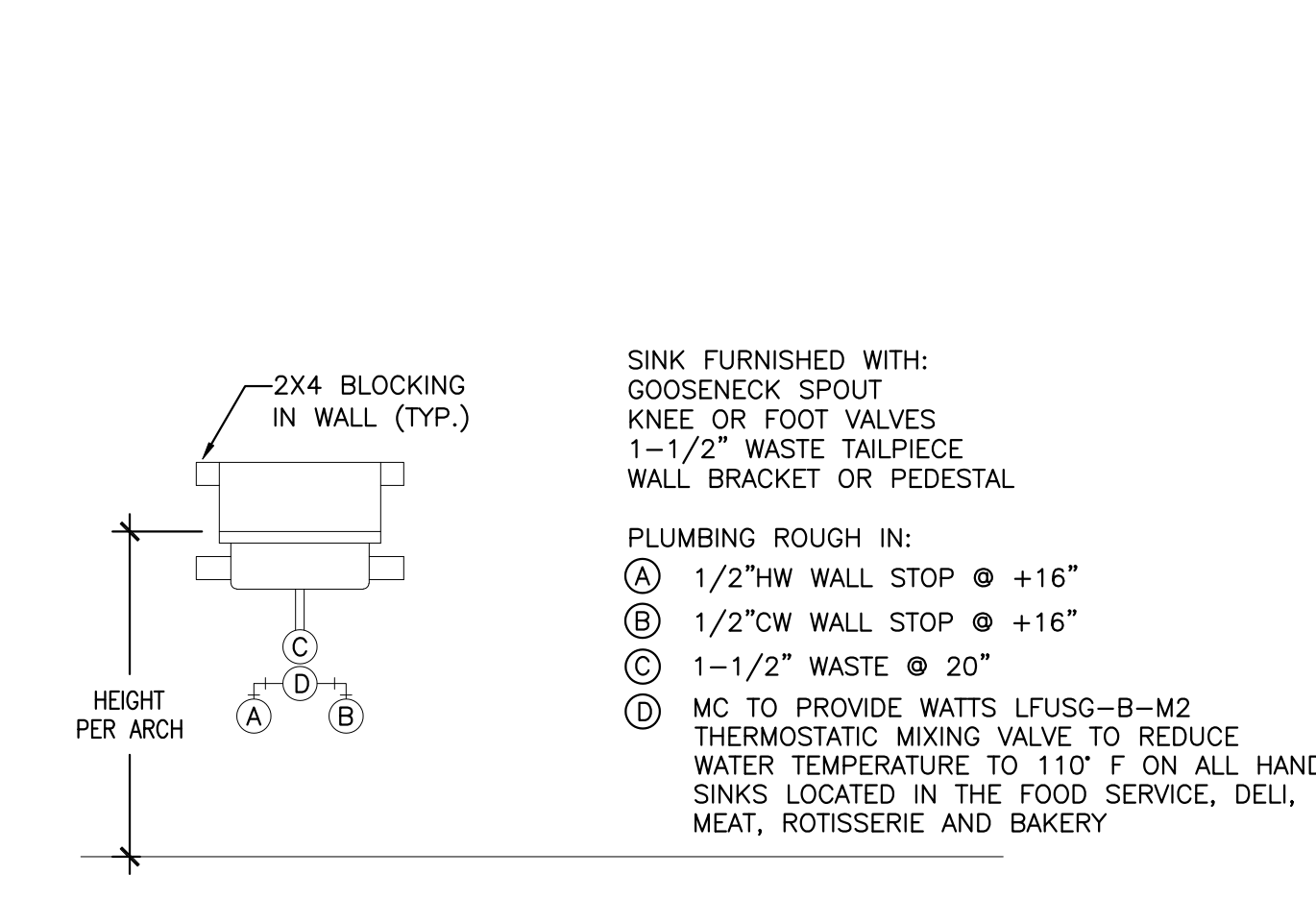
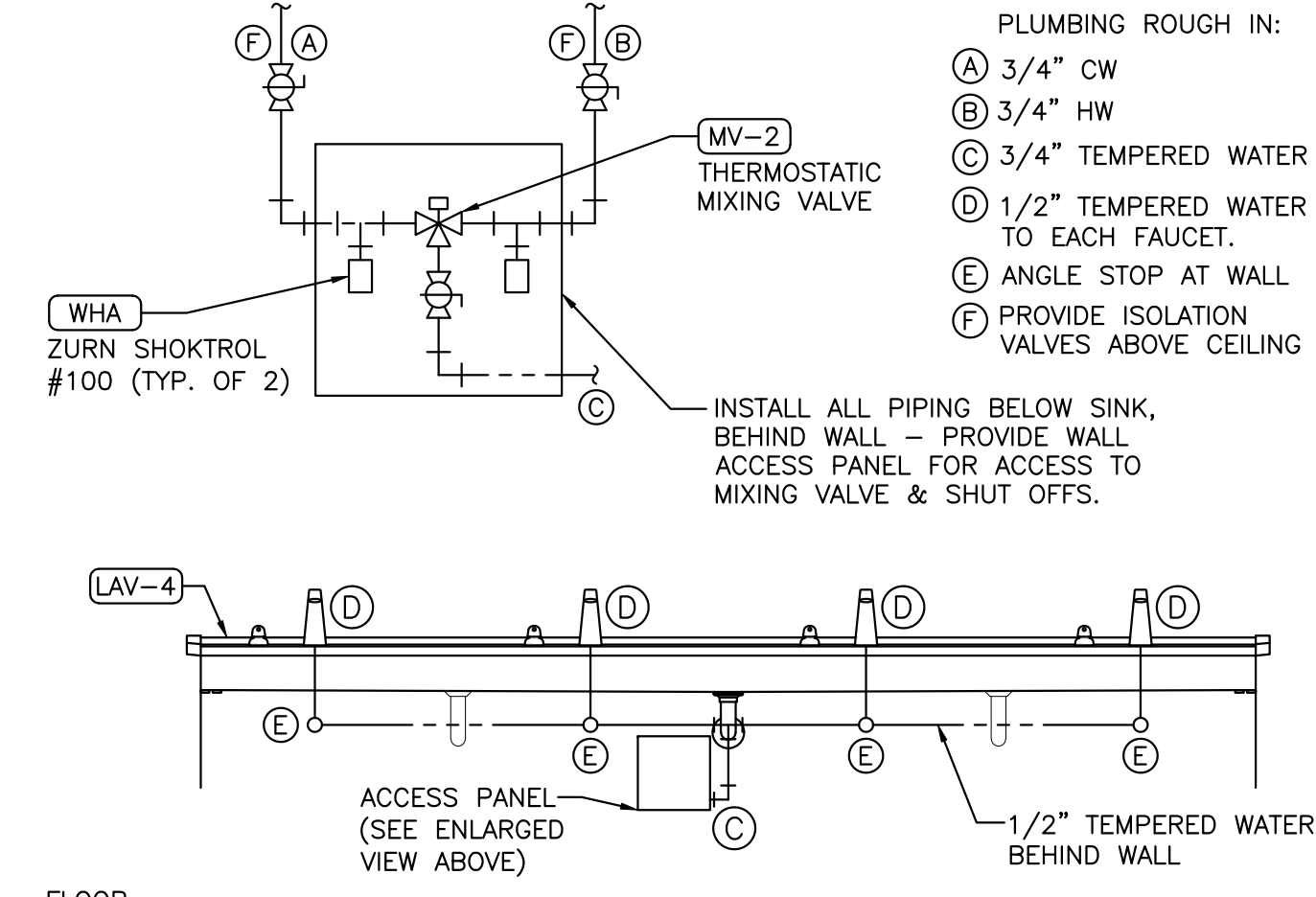
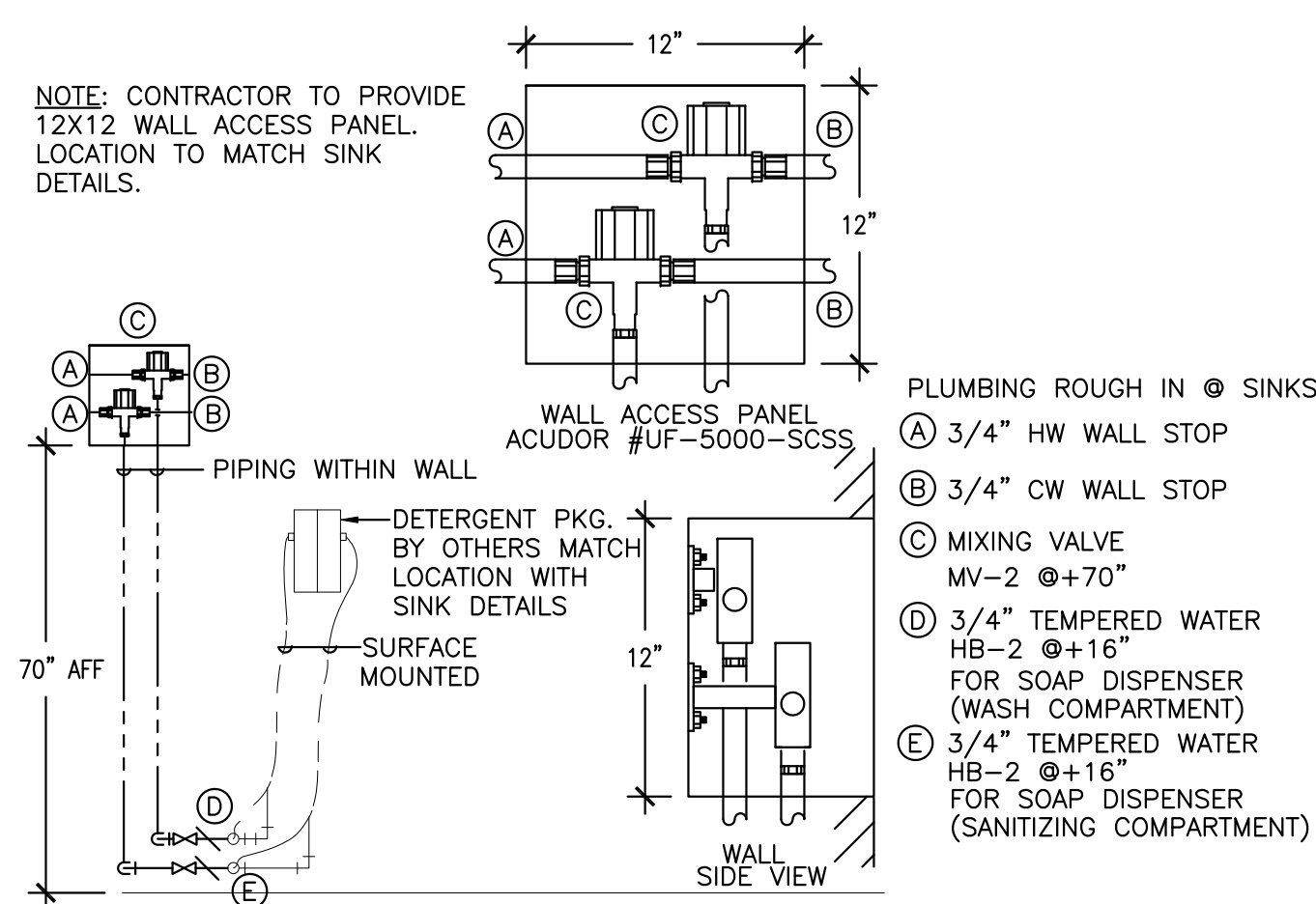
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12/22/25	ISSUED FOR PERMIT
02/10/26	REVISED PERMIT COMMENTS 1
03/03/26	PERMIT COMMENTS 1

T.E. OF WA, INC.
830 N. RIVERSIDE DRIVE
SUITE #200
BENTON, WA 99007
TEL: 509-757-7253
FAX: 509-757-9768

NEW WAREHOUSE
LEES SUMMIT, MO



TEI #: 25-346
PM: JRS
CHECKED BY: PKRIANT
ISSUED: 11/26/24
PLUMBING DETAILS



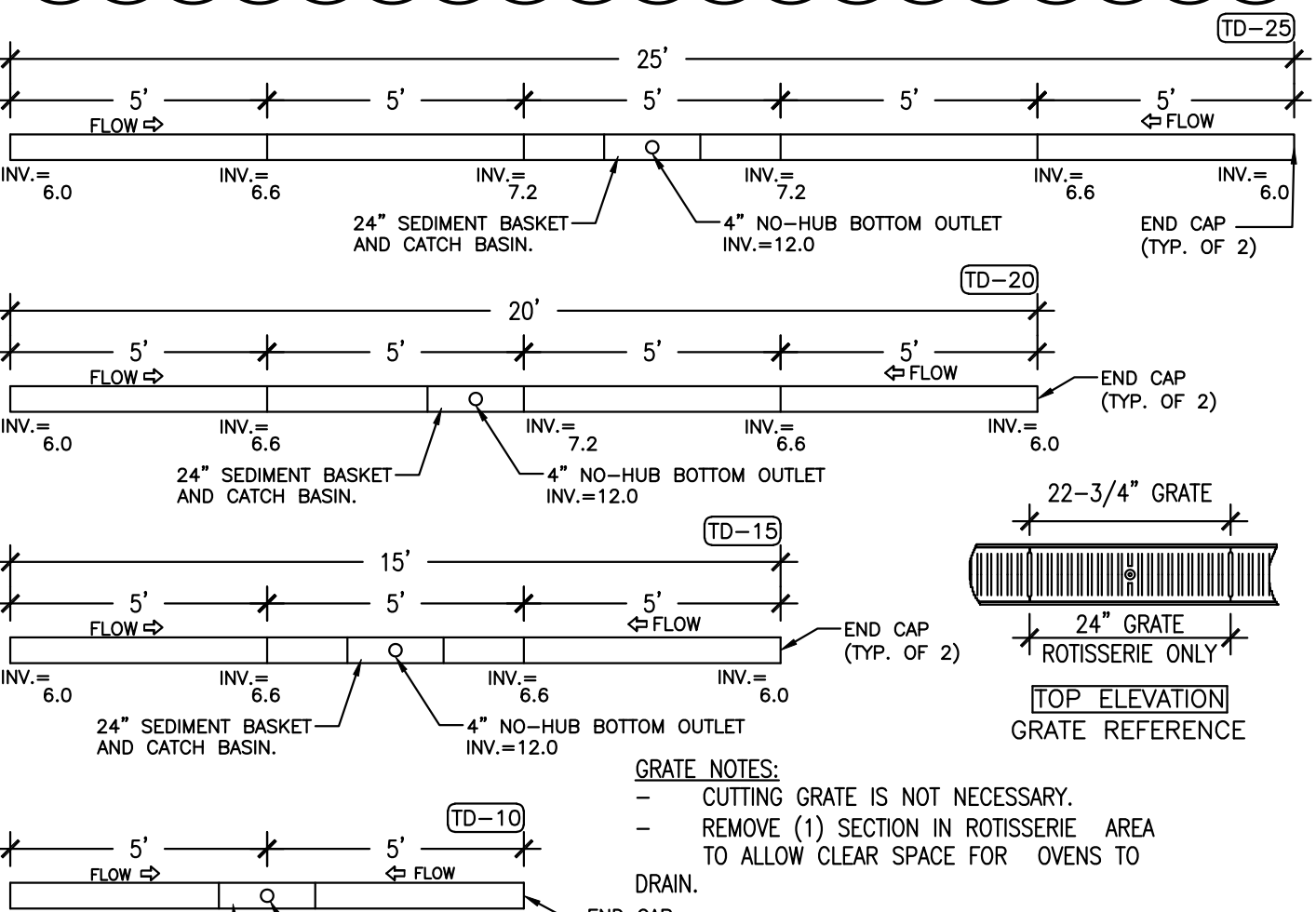
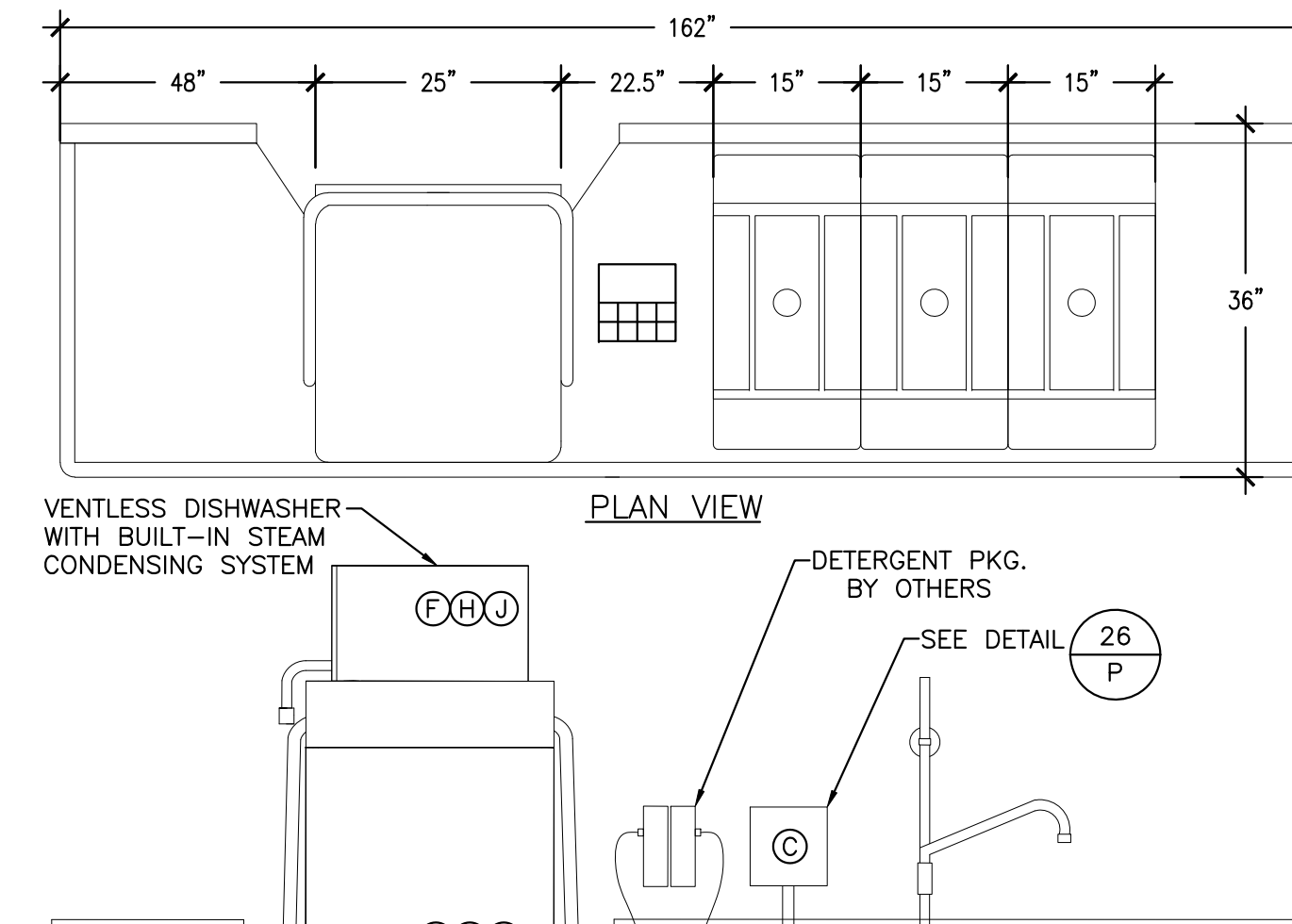
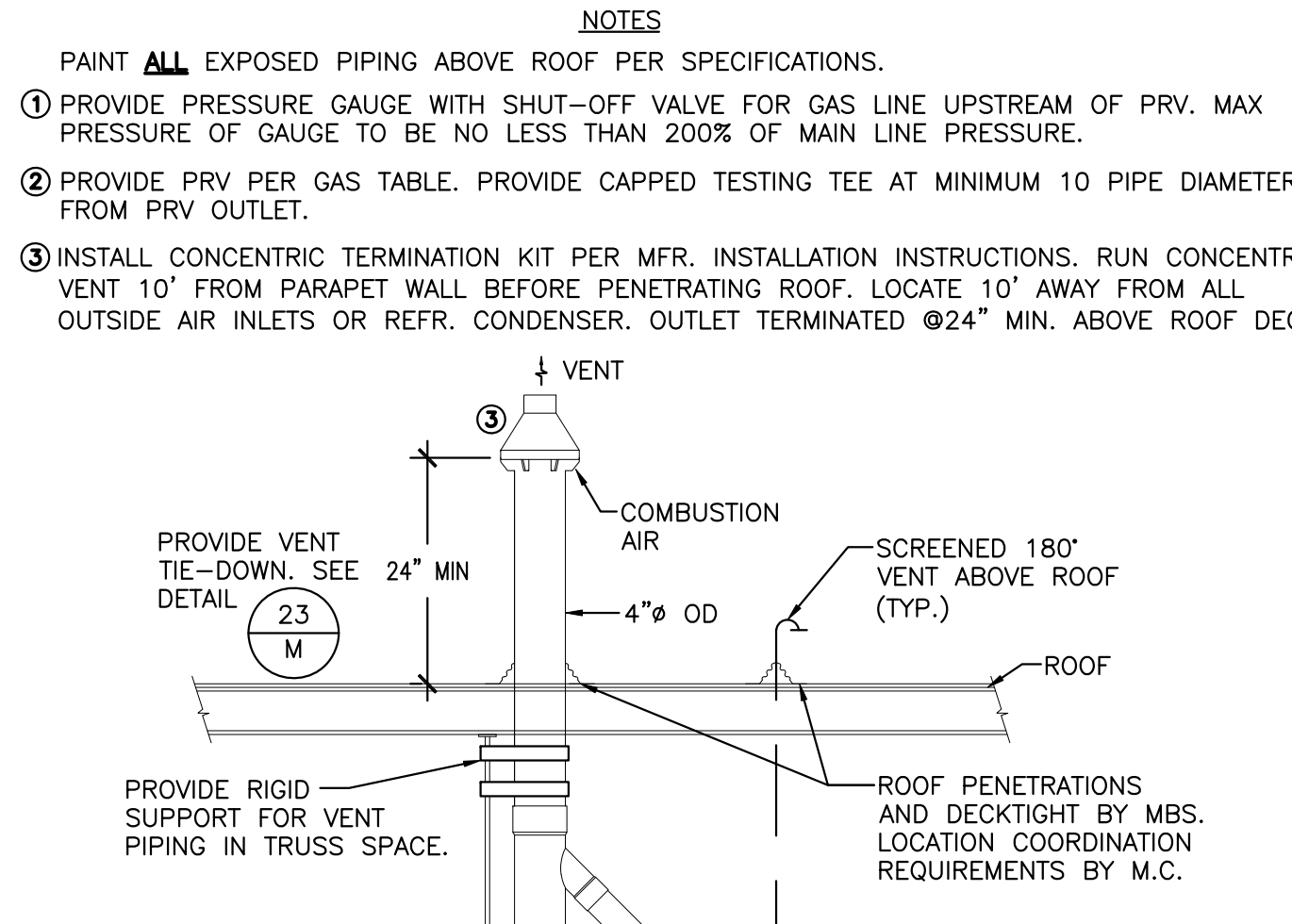
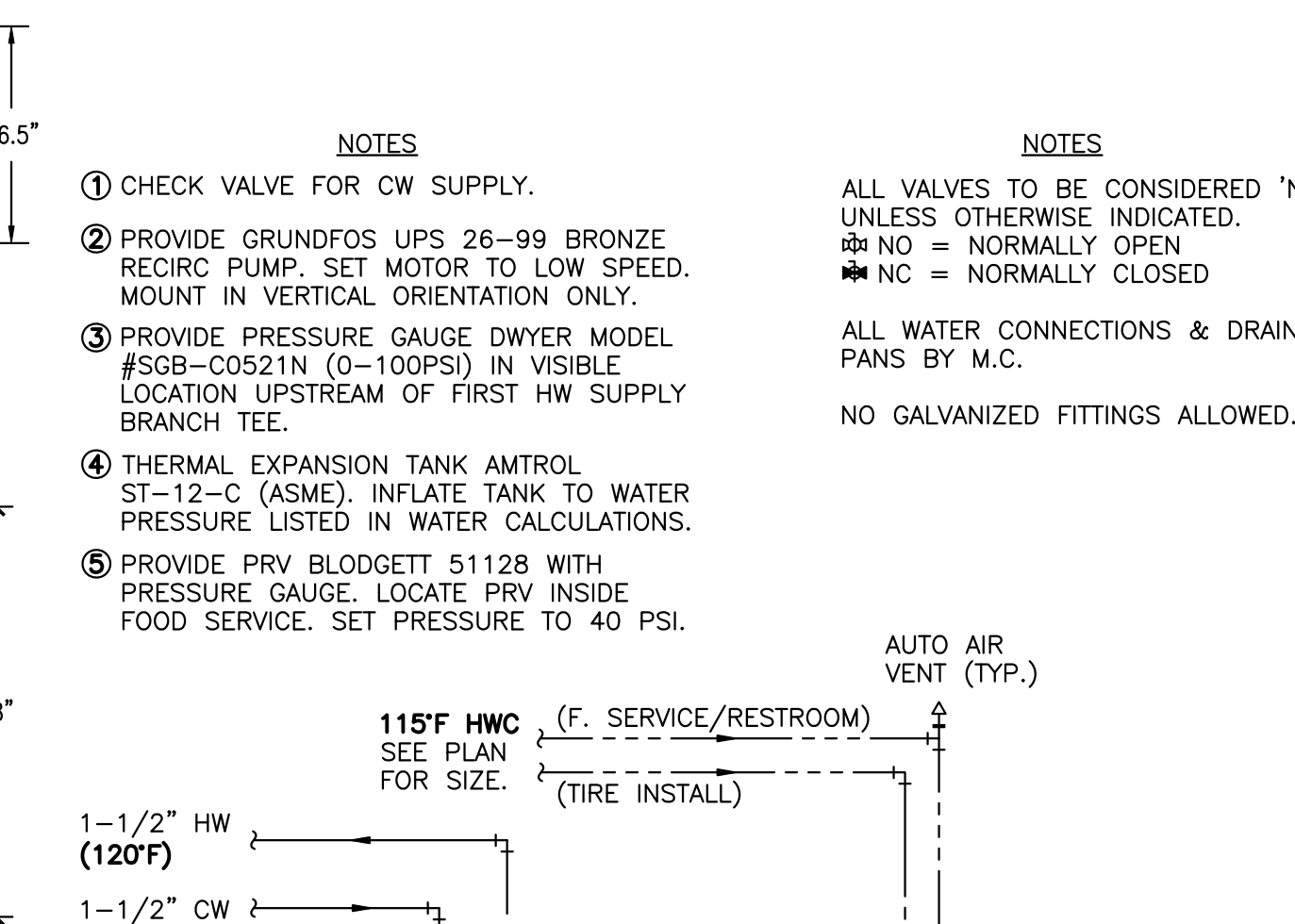
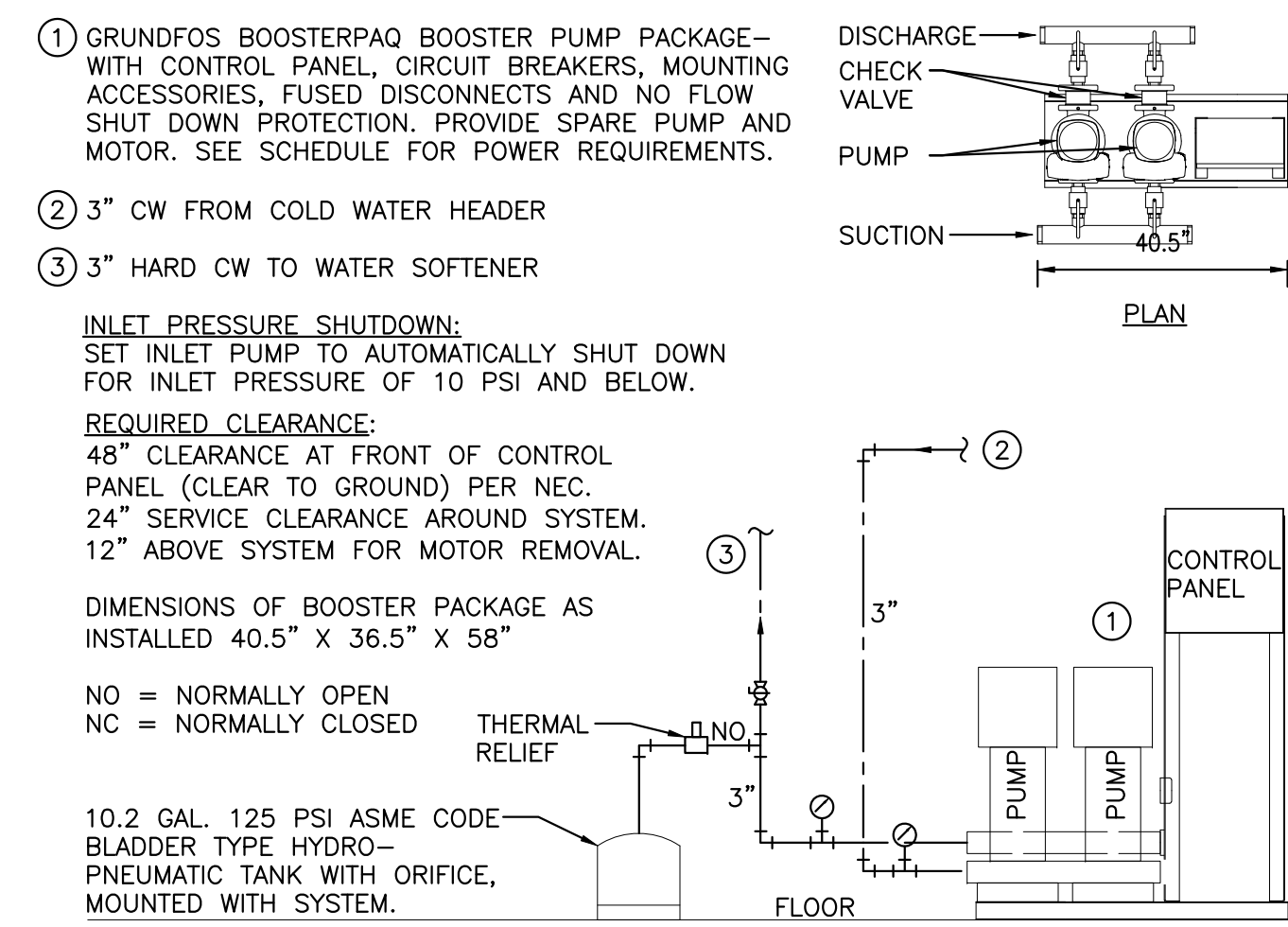
WALL ACCESS MIXING VALVE DETAIL (E-18 & E-22)
SCALE: NONE REV: SI/10-24/24-000

RESTROOM TROUGH SINK DETAIL (MV-2)
SCALE: NONE REV: SI/12-24/Master

HAND SINK (E-1, F-4)
SCALE: NONE REV: SI/12-24/Master

HEAT TRACE DETAIL
SCALE: NONE REV: SI/12-24/24-000

COLD WATER TRENCH DETAIL
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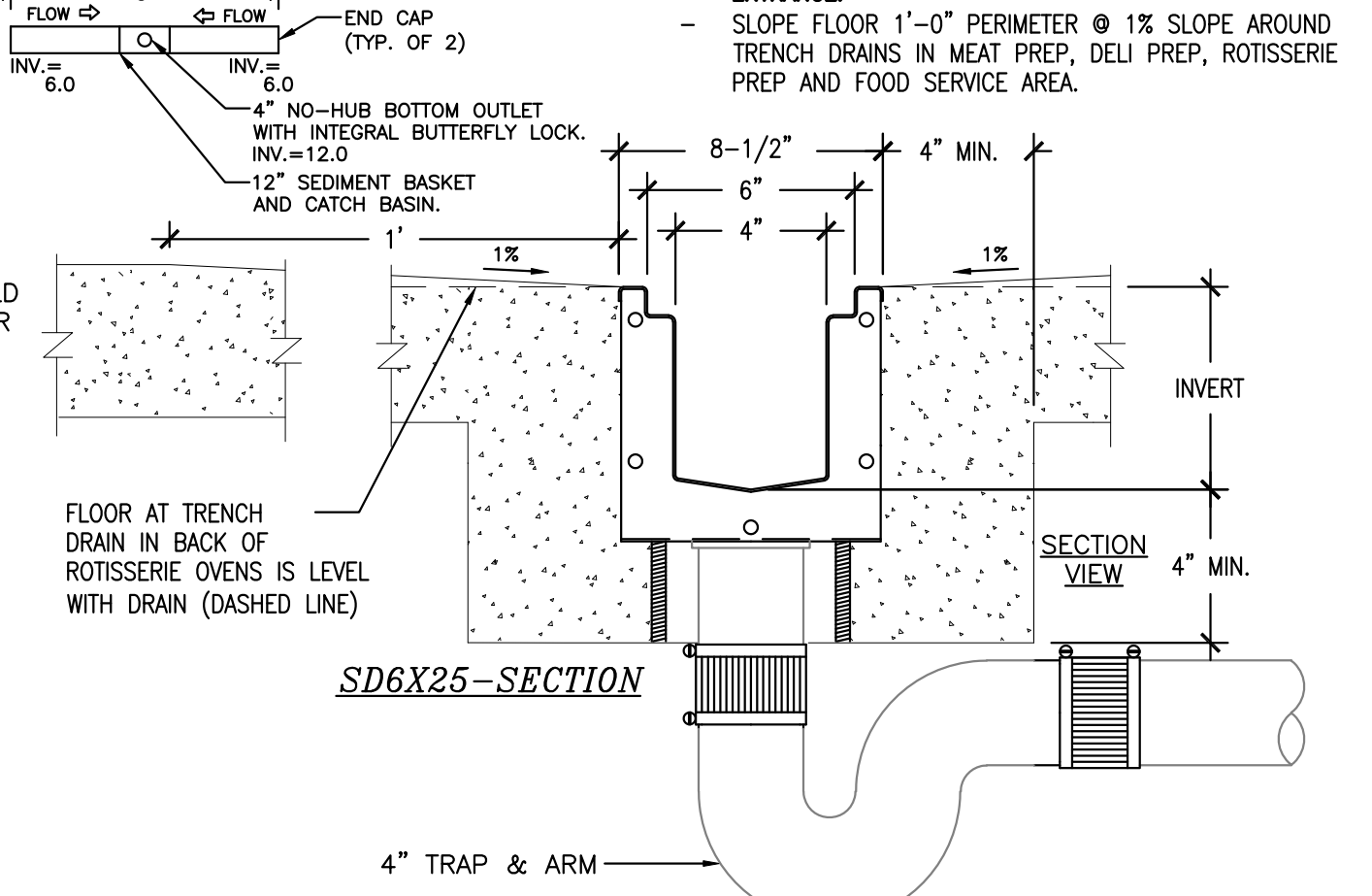
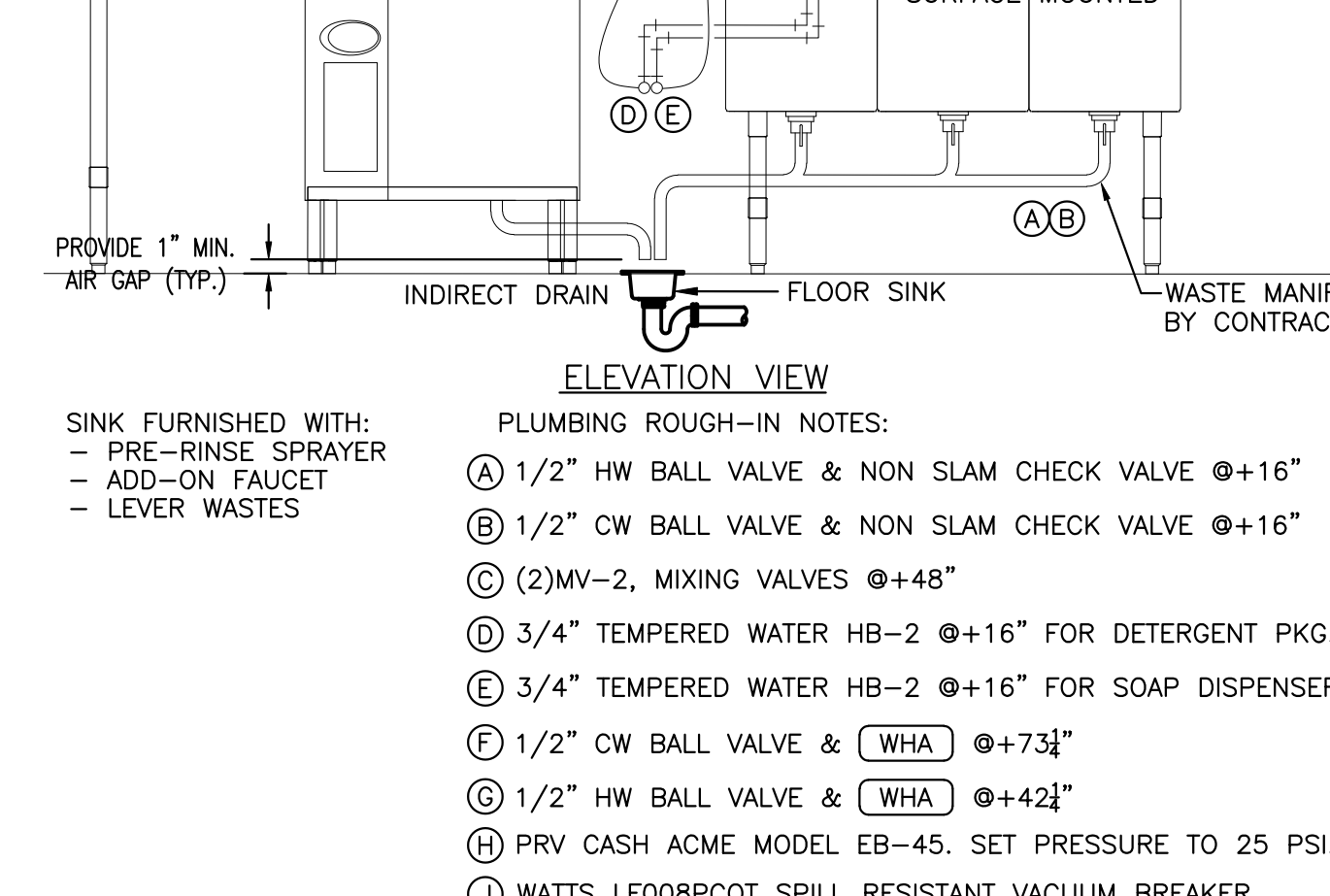
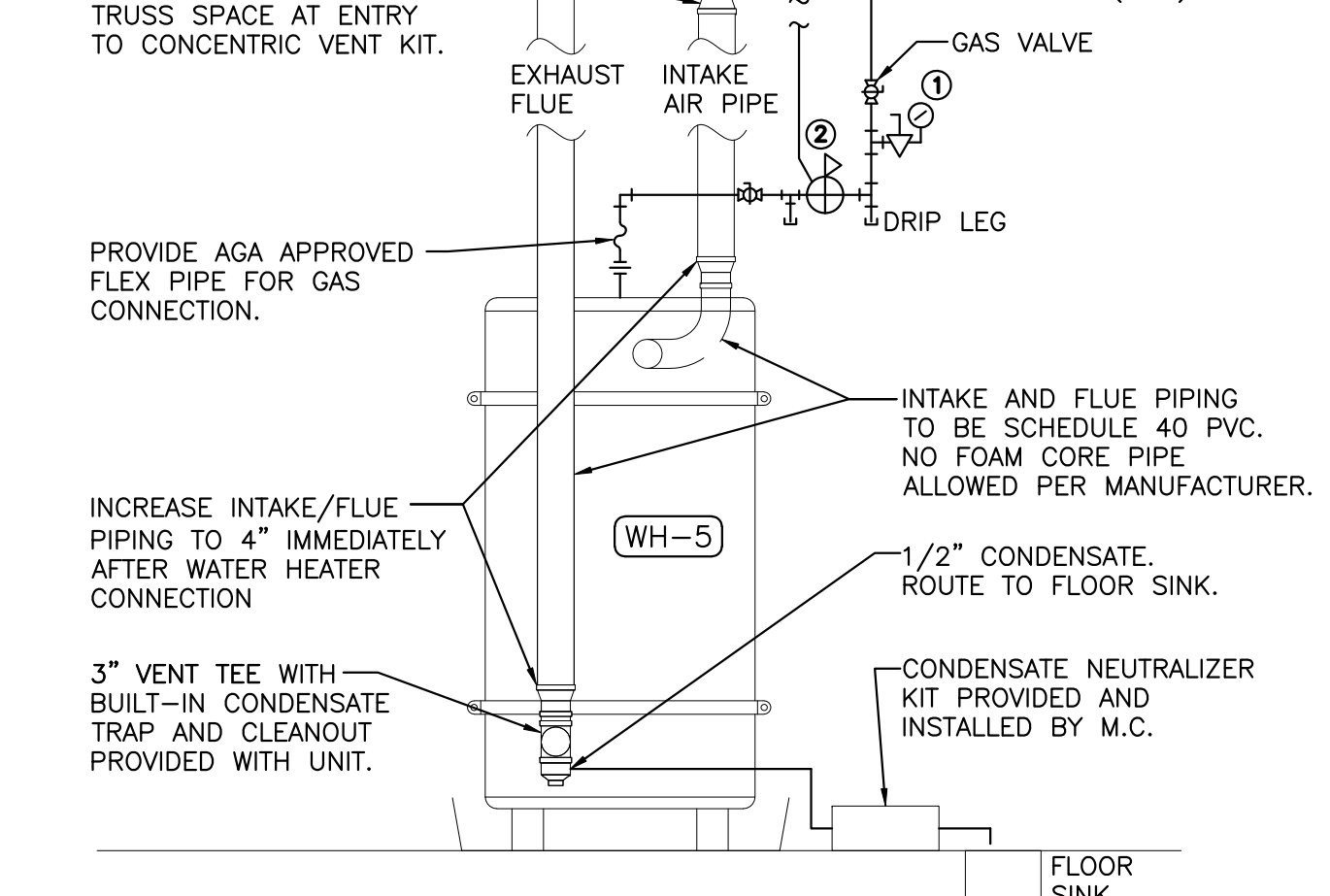
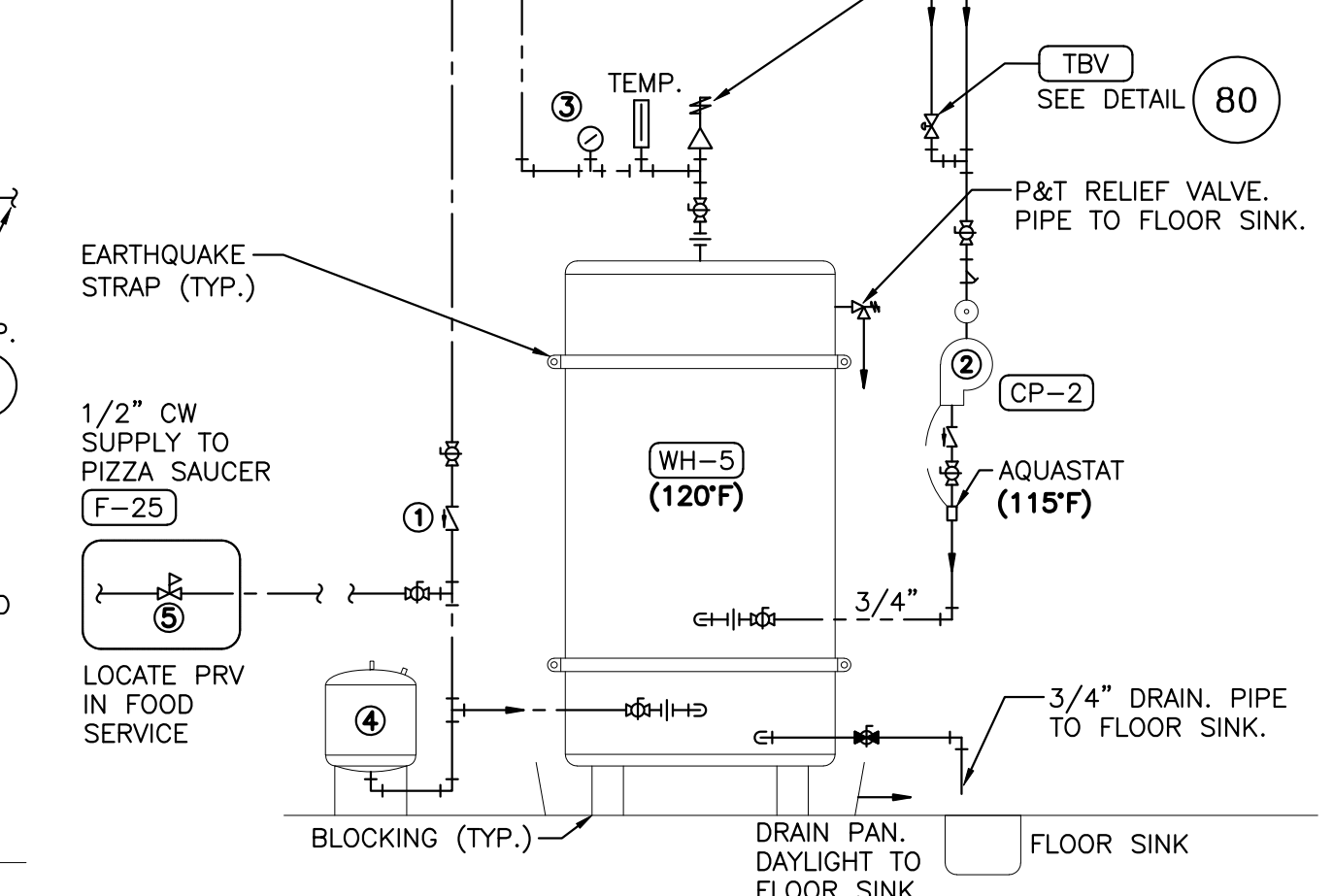
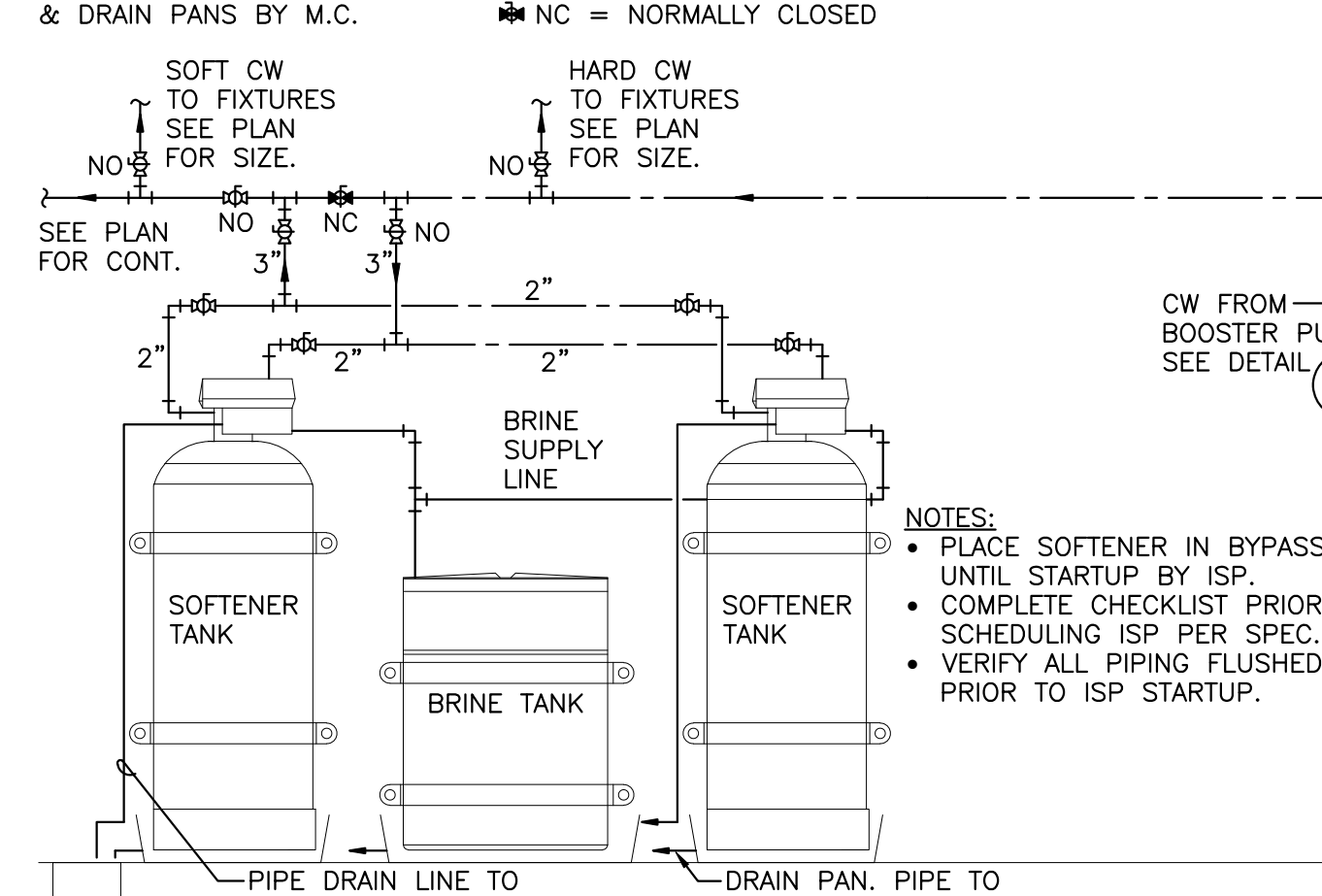
DOMESTIC WATER BOOSTER DETAIL
SCALE: NONE REV: SI/12-24/24-000

WATER HEATER PIPING (WH-5)
SCALE: NONE REV: SA/04-25/25-000

WATER HEATER GAS & VENT (WH-5)
SCALE: NONE REV: SI/12-24/Master

WAREWASH STATION (F-16)
SCALE: NONE REV: SI/11-24/24-000

TRENCH DRAIN (TD-#)
SCALE: NONE REV: SI/11-24/24-000



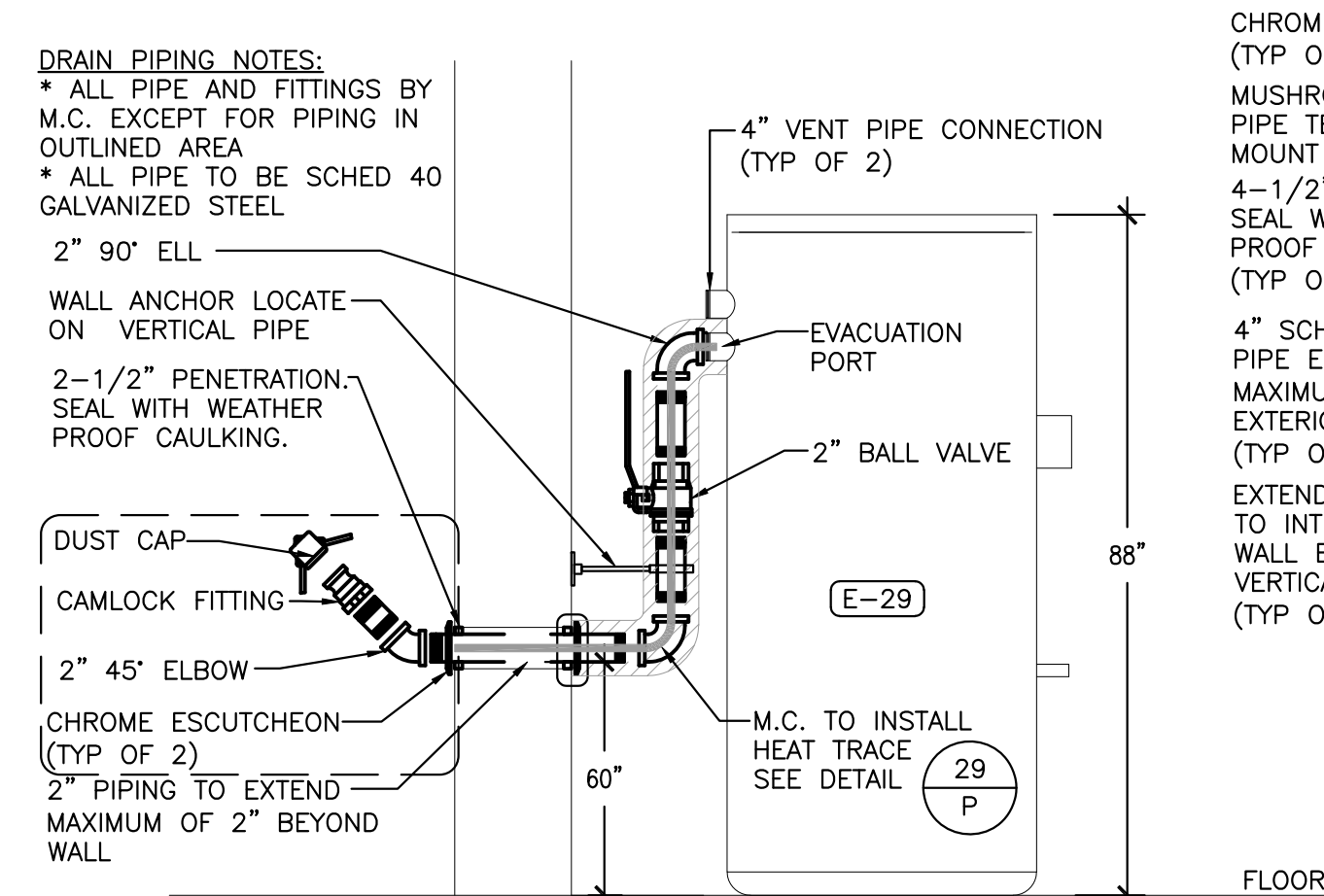
WATER SOFTENER PIPING (WS-1)
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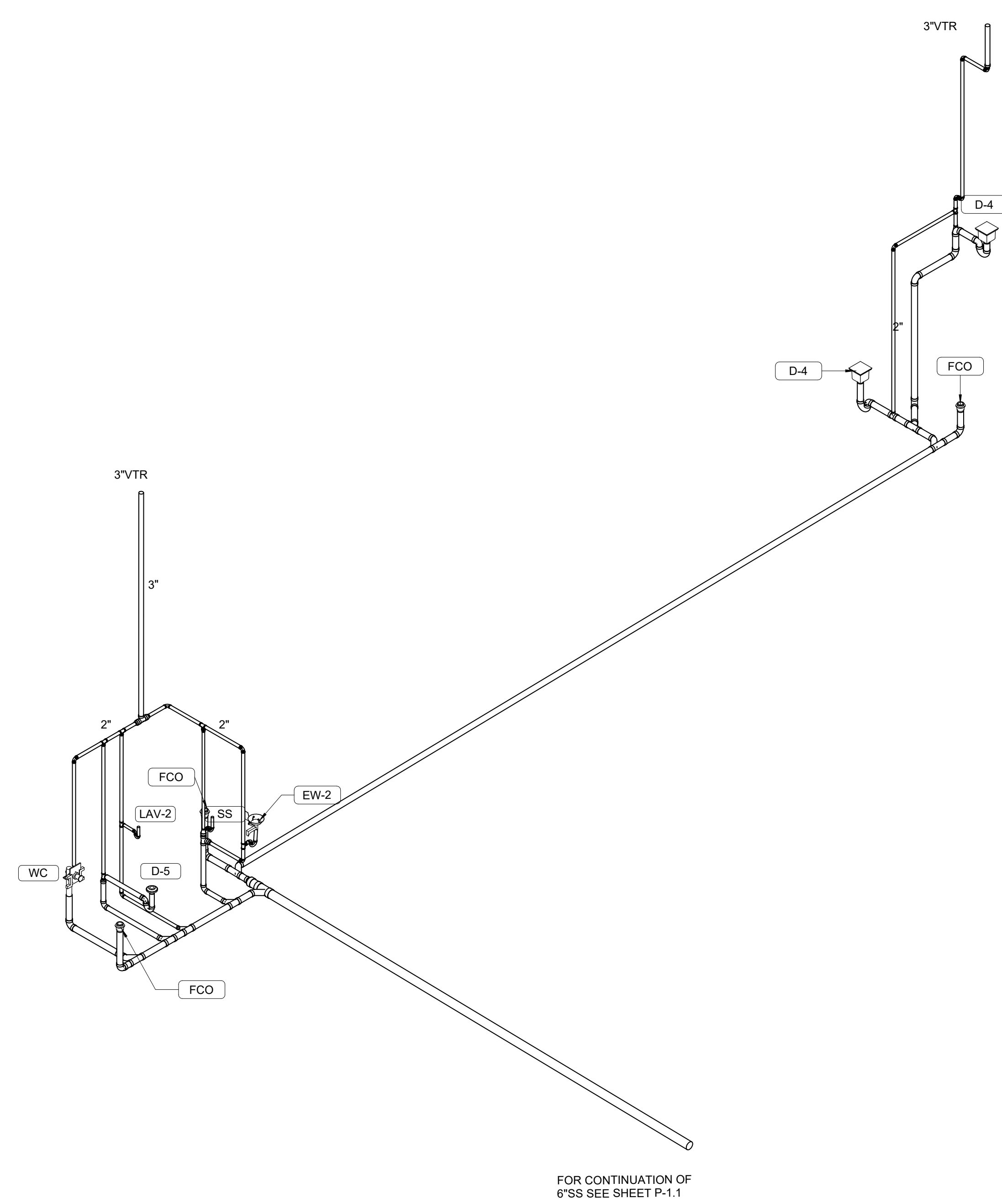
WATER HEATER PIPING (WH-1,2,3)
SCALE: NONE REV: SI/11-24/24-000

WATER HEATER GAS & VENT (WH-1,2,3)
SCALE: NONE REV: SI/11-24/24-000

WATER HEATER PIPING (WH-1,2)
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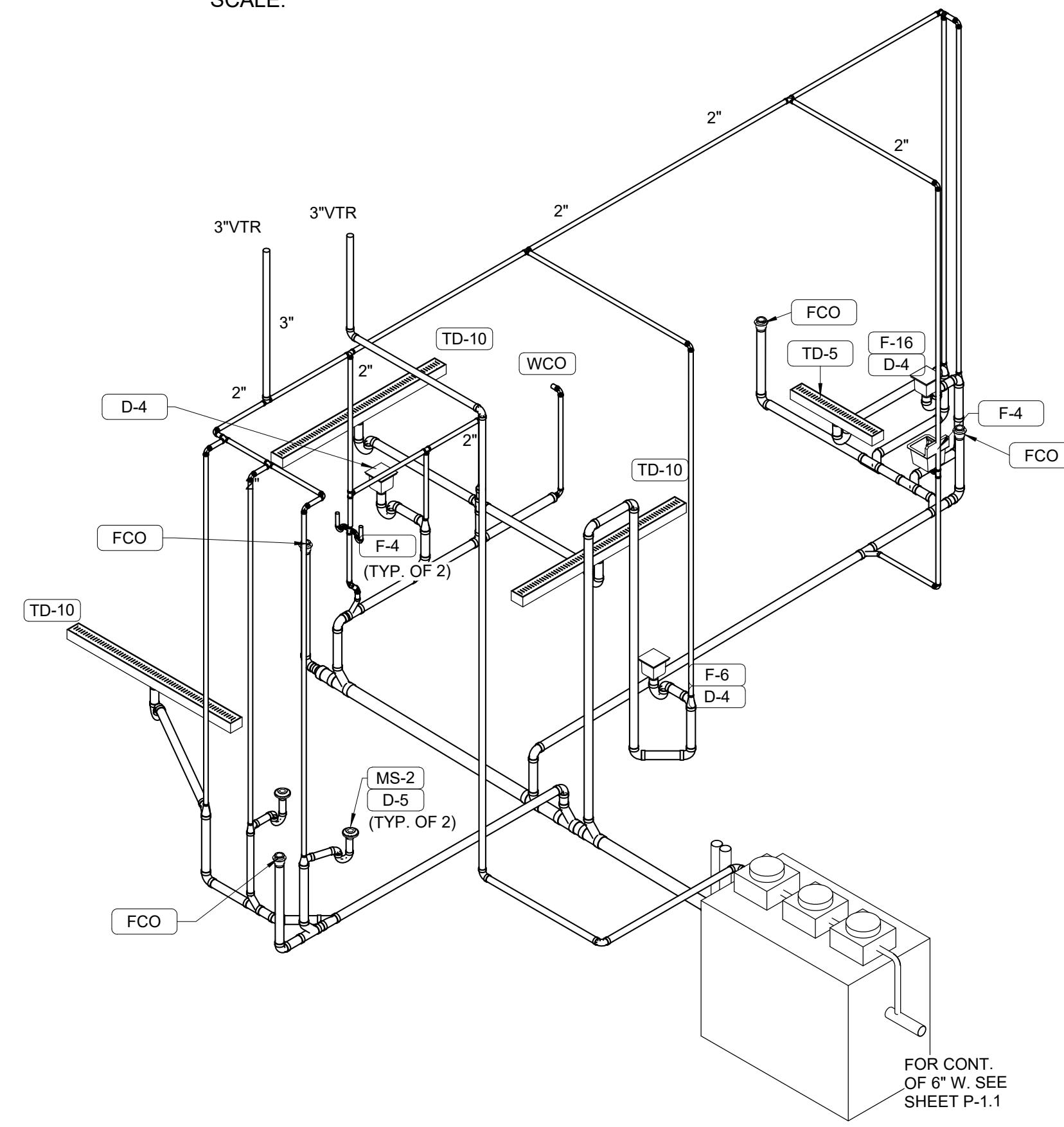
WATER HEATER GAS & VENT (WH-1,2,3)
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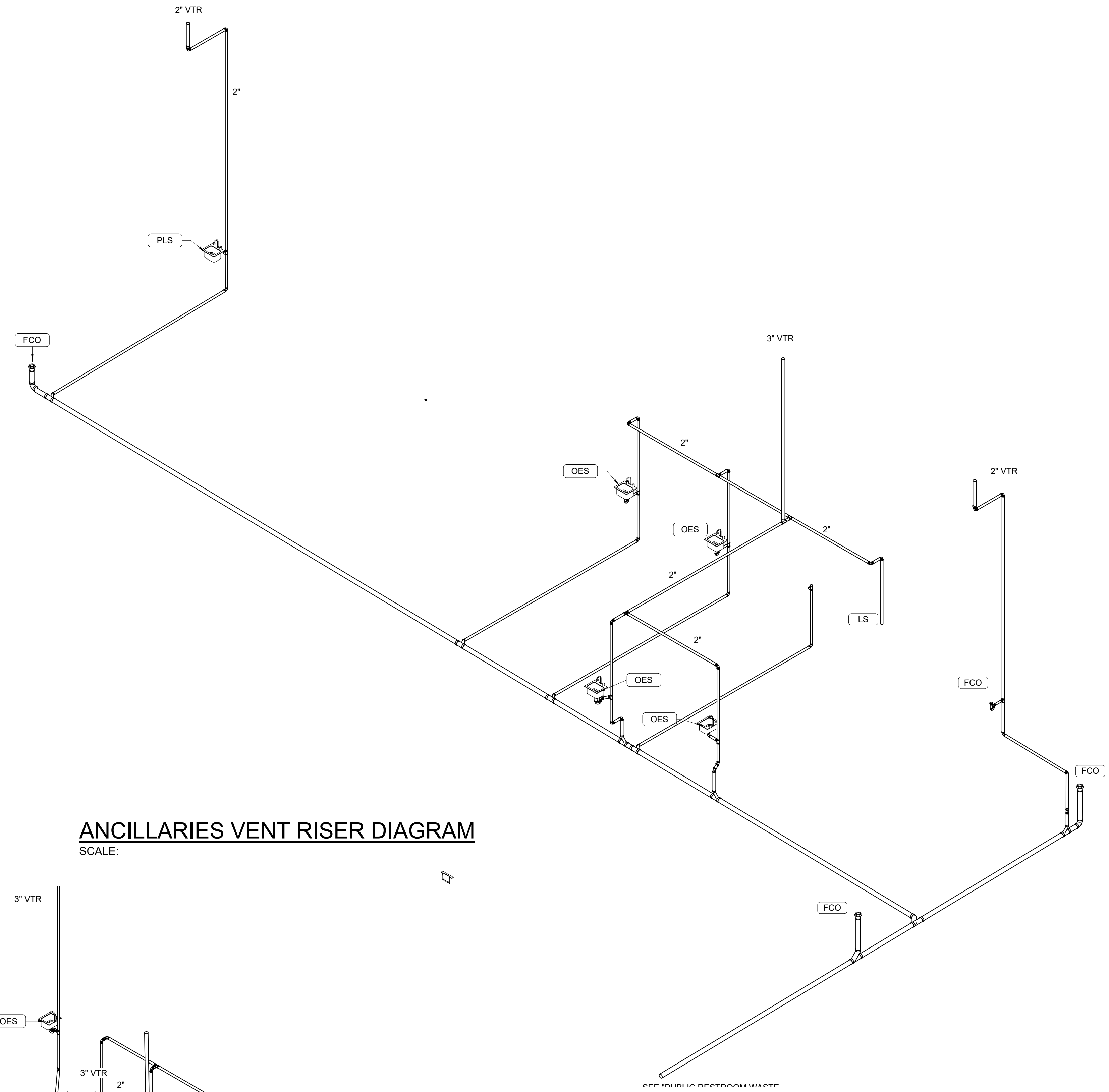
TIRE CENTER WASTE & VENT RISER DIAGRAM
SCALE:

FOR CONTINUATION OF 6\"/>

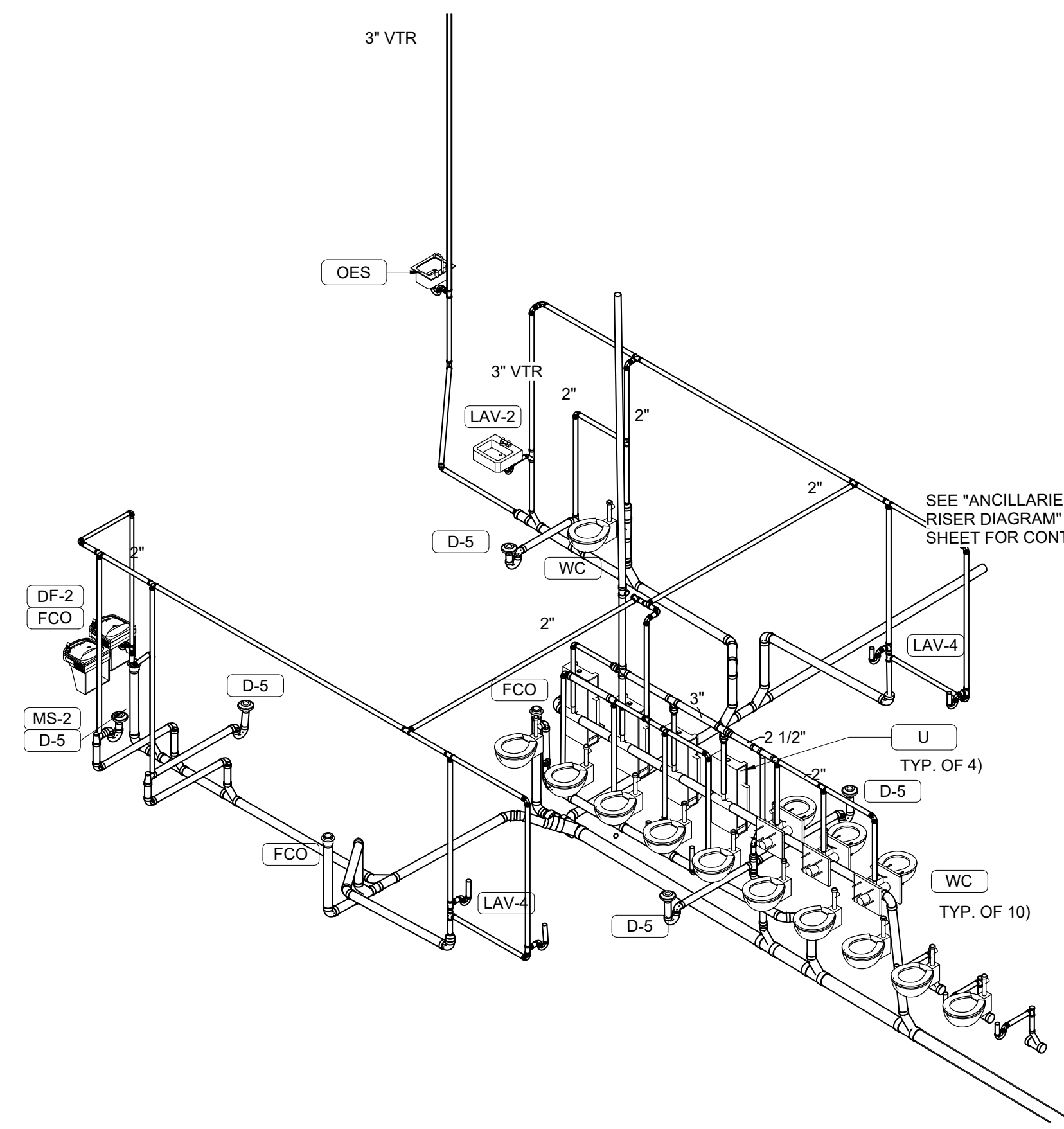


FOOD SERVICE WASTE & VENT RISER DIAGRAM
SCALE:

FOR CONT. OF 6\"/>



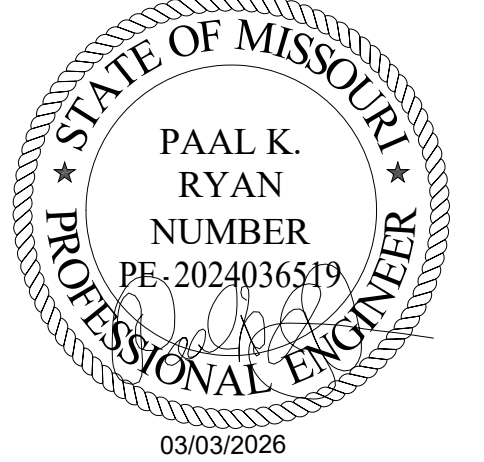
ANCILLARIES VENT RISER DIAGRAM
SCALE:



PUBLIC RESTROOM WASTE & VENT RISER
SCALE:

FOR CONT. OF 6\"/>

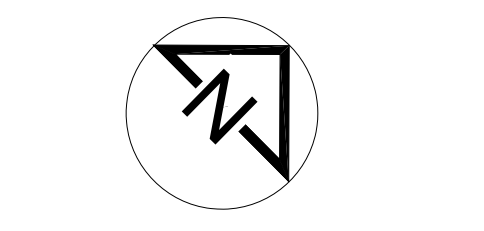
PERMIT COMMENTS



DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
02/22/26	ISSUED FOR PERMIT
02/22/26	ISSUED FOR BID
02/10/26	BID ADDENDUM 1
03/03/26	PERMIT COMMENTS 1

T.E. OF WA, INC.
 930 N. RIVERSIDE DRIVE
 SUITE #200
 LEES SUMMIT, MO 64082
 PHONE: 417-497-5753
 FAX: 417-497-3756

NEW WAREHOUSE
LEES SUMMIT, MO



TEI #: 25-346
 PM: JRS
 CHECKED BY: PKR/ANT
 ISSUED: 11/26/24

VENT RISER DIAGRAMS