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PACKAGED HVAC EQUIPMENT SCHEDULE – OWNER SUPPLIED									
COOLING DESIGN TEMPERATURES: 95.1°F DB, 62.2°F MCWB, 25.9°F DAILY RANGE					HEATING DESIGN TEMPERATURES: 14.2°F DB 99%, 9.6°F DB 99.6% ELEVATION: 4226 FT				
SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
AC–3	AIR CONDITIONER	FOOD SERVICE	DAIKIN DPSC17B	212 MBH TOTAL COOLING, 150 MBH SENSIBLE, 93.3°F AMB,84.3°F EDB, 68.9 °F EWB, 6800 CFM @ 0.5" ESP, I EER = 10.8, I EER = 18.5, 300 MBH INPUT, 243 MBH OUTPUT, 81% AFUE	460V/3ø 70 MCOP 39.8 FLA	UNIT:1971# DUCT:670# CURB:118# DESIGN:3255#	PLAN M–1.1 10/M	225 CFM MIN O/A 2400 CFM MIN O/A FOR INTERLOCK WITH KEF–5	(4) (71)(77) (78)
AC–7~15	AIR CONDITIONER	HIGH SALES HIGH HEAT	DAIKIN DPSC30B	333 MBH TOTAL COOLING, 263 MBH SENSIBLE, 91.3°F AMB,77°F EDB, 62.0 °F EWB, 11000 CFM @ 0.5" ESP, I EER = 10.4, I EER = 16.7, 600 MBH INPUT, 243 MBH OUTPUT, 81% AFUE	460V/3ø 100 MCOP 69.4 FLA	UNIT:4207# DUCT:501# CURB:255# DESIGN:545#	PLAN M–1.1 1.2/M	MIN 2033 CFM O/A UP TO 4000 CFM BASED ON CO2 LEVELS	(4) (55)(60) (77)
AC–32	AIR CONDITIONER	BREAK ROOM	DAIKIN DPSC06B	80 MBH TOTAL COOLING, 54 MBH SENSIBLE, 82.2°F AMB,87.2°F EDB, 66.5 °F EWB, 2400 CFM @ 0.5" ESP, I EER = 11.2, I EER = 21.1, 160 MBH INPUT, 129 MBH OUTPUT, 81% AFUE	460V/3ø 25 MCOP 14.6 FLA	UNIT:1015# DUCT:441# CURB:88# DESIGN:2044#	PLAN M–1.1 1.2,4/M	500 CFM MIN O/A	(4) (55)
AC–35	AIR CONDITIONER	TIRE INSTALL	DAIKIN DPSC10B	119 MBH TOTAL COOLING, 80 MBH SENSIBLE, 91.3°F AMB,77°F EDB, 60 °F EWB, 3400 CFM @ 0.5" ESP, I EER = 11.0, I EER = 19.2, 243 MBH INPUT, 234 MBH OUTPUT, 81% AFUE	460V/3ø 45 MCOP 26.2 FLA	UNIT:1785# DUCT:534# CURB:118# DESIGN:3050#	PLAN M–1.1 9/M	400 CFM MIN O/A	(4)
MAU–28	AIR CONDITIONER	BAKERY	DAIKIN DPSC10B	119 MBH TOTAL COOLING, 109 MBH SENSIBLE, 82.2°F AMB,87.2°F EDB, 66.5 °F EWB, 3600 CFM @ 0.5" ESP, I EER = 11, I EER = 19.2, 400 MBH INPUT, 324 MBH OUTPUT, 81% AFUE	460V/3ø 45 MCOP 26.2 FLA	UNIT:1898# DUCT:534# CURB:118# DESIGN:3050#	PLAN M–1.1 10/M	225 CFM MIN O/A 3600 CFM O/A FOR INTERLOCK WITH KEF–8,9,10	(3) (74)(78)
MAU–37	AIR CONDITIONER	ROTISSERIE	DAIKIN DPSC16B	219 MBH TOTAL COOLING, 155 MBH SENSIBLE, 95°F AMB, 88.8°F EDB, 71.9 °F EWB, 6000 CFM @ 0.5" ESP, I EER = 11.76, I EER = 15.78, 600 MBH INPUT, 486 MBH OUTPUT, 81% AFUE	460V/3ø 120V/1ø 4.1 FLA	UNIT:3865# DUCT:400# CURB:255# DESIGN:5120#	PLAN M–1.1 27/M	3,500 CFM MIN, INTERLOCK WITH KEF–12,13, CONTROL CIRCUIT POWERED BY HCC	(4) (74)(78)
UH–3	UNIT HEATER	PUMP ROOM	STERLING SS 75	SEPARATED COMBUSTION PROPELLER FAN GAS UNIT HEATER, 75 MBH INPUT,82% EFFICIENT, 920 CFM, STAINLESS STEEL HEAT EXCHANGER, POWER VENT, SEALED COMBUSTION, 60" NOZZLE.	120V/1ø 0.08 HP 4.1 FLA	85#	PLAN M–1.1 27/M	T'STAT W/LOCKABLE COVER FURNISHED BY HVAC SUPPLIER; INSTALLED BY M.C. M.C. TO FURNISH ALL CONTROL WIRING AND CONDUIT	
UH–4	UNIT HEATER	MECHANICAL ROOM	STERLING SS 75	SEPARATED COMBUSTION PROPELLER FAN GAS UNIT HEATER, 75 MBH INPUT,82% EFFICIENT, 920 CFM, STAINLESS STEEL HEAT EXCHANGER, POWER VENT, SEALED COMBUSTION, 60" NOZZLE.	120V/1ø 0.08 HP 4.1 FLA	85#	PLAN M–1.1 27/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 purchasing dept. to coordinate delivery time									
– 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.									
– 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									
(3) *ECONOMIZER WITH DDC ACTUATOR *115V CONVENIENCE OUTLET – FACTORY WIRED *POWER SWITCH 100									
AMPS *2" PLEATED 30% EFFICIENT FILTERS *PHASE & BROWN OUT PROTECTION *FACTORY INSTALLED DDC CONTROLS									
(4) *ECONOMIZER WITH DDC ACTUATOR *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) UNIT SHALL BE CONTROLLED BY BMS. UNIT SHALL BE CAPABLE OF 50% OUTDOOR AIR, AND HAVE FACTORY INSTALLED MOTORIZED OUTSIDE AIR DAMPER SO THAT WHEN PIZZA OVEN HOOD SYSTEM IS OPERATING AC UNIT CAN PROVIDE MAKE–UP AIR TO FOOD SERVICE FACILITY									
(74) MODULATING GAS VALVE WITH STAINLESS STEEL HEAT EXCHANGER									
(77) DEHUMIDIFICATION OPTION – HOT GAS REHEAT									
(78) COOLING COIL UV LIGHTS									

SPLIT SYSTEM HVAC EQUIPMENT SCHEDULE – OWNER SUPPLIED									
COOLING DESIGN TEMPERATURES: 95.1°F DB, 62.2°F MCWB, 25.9°F DAILY RANGE					HEATING DESIGN TEMPERATURES: 14.2°F DB 99%, 9.6°F DB 99.6% ELEVATION: 4226 FT				
SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
CU–1	AIR CONDITIONER	PHARMACY, OPTICAL	DAIKIN AMXM36AVJUB	HEAT PUMP OUTDOOR UNIT, 3/8" LIQ, 3/4" GAS 34.2 MBH COOLING 34.6 MBH HEAT @ 47°F.	3 NOM. TONS, SEER2: 10 EER2: 5 HSPF2: 4.75	208V/1ø 24.1 MCA	UNIT: 218#	MR–2.1	
IU–111, 112	AIR CONDITIONER	PHARMACY	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.		POWERED BY CU–1	UNIT: 39#	MR–2.1	O/A FROM WAREHOUSE
IU–113,	AIR CONDITIONER	OPTICAL	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.		POWERED BY CU–1	UNIT: 39#	MR–2.1	O/A FROM WAREHOUSE
CU–2	AIR CONDITIONER	PHARMACY, OPTICAL	DAIKIN AMXM36AVJUB	HEAT PUMP OUTDOOR UNIT, 3/8" LIQ, 3/4" GAS 34.2 MBH COOLING 34.6 MBH HEAT @ 47°F.	3 NOM. TONS, SEER2: 10 EER2: 5 HSPF2: 4.75	208V/1ø 24.1 MCA	UNIT: 218#	MR–2.1	
IU–211, 212	AIR CONDITIONER	PHARMACY	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.		POWERED BY CU–2	UNIT: 39#	MR–2.1	O/A FROM WAREHOUSE
IU–213, 214	AIR CONDITIONER	OPTICAL	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.		POWERED BY CU–2	UNIT: 39#	MR–2.1	O/A FROM WAREHOUSE
CU–3	AIR CONDITIONER	HEARING, OFFICE	DAIKIN AMXM36AVJUB	HEAT PUMP OUTDOOR UNIT, 3/8" LIQ, 3/4" GAS 34.2 MBH COOLING 34.6 MBH HEAT @ 47°F.	3 NOM. TONS, SEER2: 10 EER2: 5 HSPF2: 4.75	208V/1ø 24.1 MCA	UNIT: 218#	MR–2.1	
IU–311,	AIR CONDITIONER	HEARING	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.		POWERED BY CU–3	UNIT: 39#	MR–2.1	O/A FROM WAREHOUSE
IU–321,	AIR CONDITIONER	VAULT	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.		POWERED BY CU–3	UNIT: 39#	MR–2.1	O/A FROM WAREHOUSE
IU–322,	AIR CONDITIONER	OFFICE	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.		POWERED BY CU–3	UNIT: 39#	MR–2.1	O/A FROM WAREHOUSE
CU–4	AIR CONDITIONER	OFFICE, HEARING, OPTICAL	DAIKIN AMXM36AVJUB	HEAT PUMP OUTDOOR UNIT, 3/8" LIQ, 3/4" GAS 34.2 MBH COOLING 34.6 MBH HEAT @ 47°F.	3 NOM. TONS, SEER2: 10 EER2: 5 HSPF2: 4.75	208V/1ø 24.1 MCA	UNIT: 218#	MR–2.1	
IU–411,	AIR CONDITIONER	HEARING	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.		POWERED BY CU–4	UNIT: 39#	MR–2.1	O/A FROM WAREHOUSE
IU–412,	AIR CONDITIONER	OPTICAL	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.		POWERED BY CU–4	UNIT: 39#	MR–2.1	O/A FROM WAREHOUSE
IU–421, 422	AIR CONDITIONER	OFFICE	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 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 on sheet M–0.2 for installation.									
– 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.									
– 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 ALEXN@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.									

AIR TERMINAL SCHEDULE – S.I.C.									
SYMBOL	MANUFACTURER	SERVICE	MODEL	PATTERN	DAMPER NECK	FRAME	LOCATION *		
CD	TUTTLE & BAILEY SUPPLY	SQD		BLADE		LAYIN	OFFICES, OPTICAL		
RGFP**	CAPTIVEAIRE SUPPLY	DI–PSP		2Ø51% PERFORATED		LAYIN	FOOD SERVICE, ENCLOSED ROTISS/BAKERY		
CD	TUTTLE & BAILEY RETURN	PR		PERFORATED		LAYIN	OFFICES, OPTICAL		
EG–1	TUTTLE & BAILEY EXHAUST	CR6500		FLANGE		LAYIN	RESTROOMS, JANITOR ROOM		
EG–2	TUTTLE & BAILEY EXHAUST	A700		FIXED BLADE		LAYIN	DEMO ROOM, EDP		
EG–3	TUTTLE & BAILEY EXHAUST	CT70DFB–SS		45° FIXED BLADE		FLANGE	DELI, MEAT, BAKERY (MIP), FOOD SERVICE (MIP)		
RGFP**	TUTTLE & BAILEY RETURN	CT70DFB–SS		45° FIXED BLADE		LAYIN	BAKERY (T–BAR), FOOD SERVICE (T–BAR)		
DG	---	DOOR GRILLE	PROVIDED BY GC	---		LAYIN	RESTROOMS, JANITOR ROOM, DEMO ROOM		
CD	TUTTLE & BAILEY SUPPLY	PP		PERFORATED	FIRE / OBD	LAYIN	VAULT		
RGF	TUTTLE & BAILEY SUPPLY	PR		PERFORATED	FIRE / OBD	LAYIN	VAULT		
CDH	TUTTLE & BAILEY SUPPLY	SQD		BLADE		FLANGE	HEARING CENTER		
ND	TUTTLE & BAILEY SUPPLY	DJ–DM–SP–SA		NOZZLE DIFFUSER	WITH DAMPER	DUCT MNT.	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.									

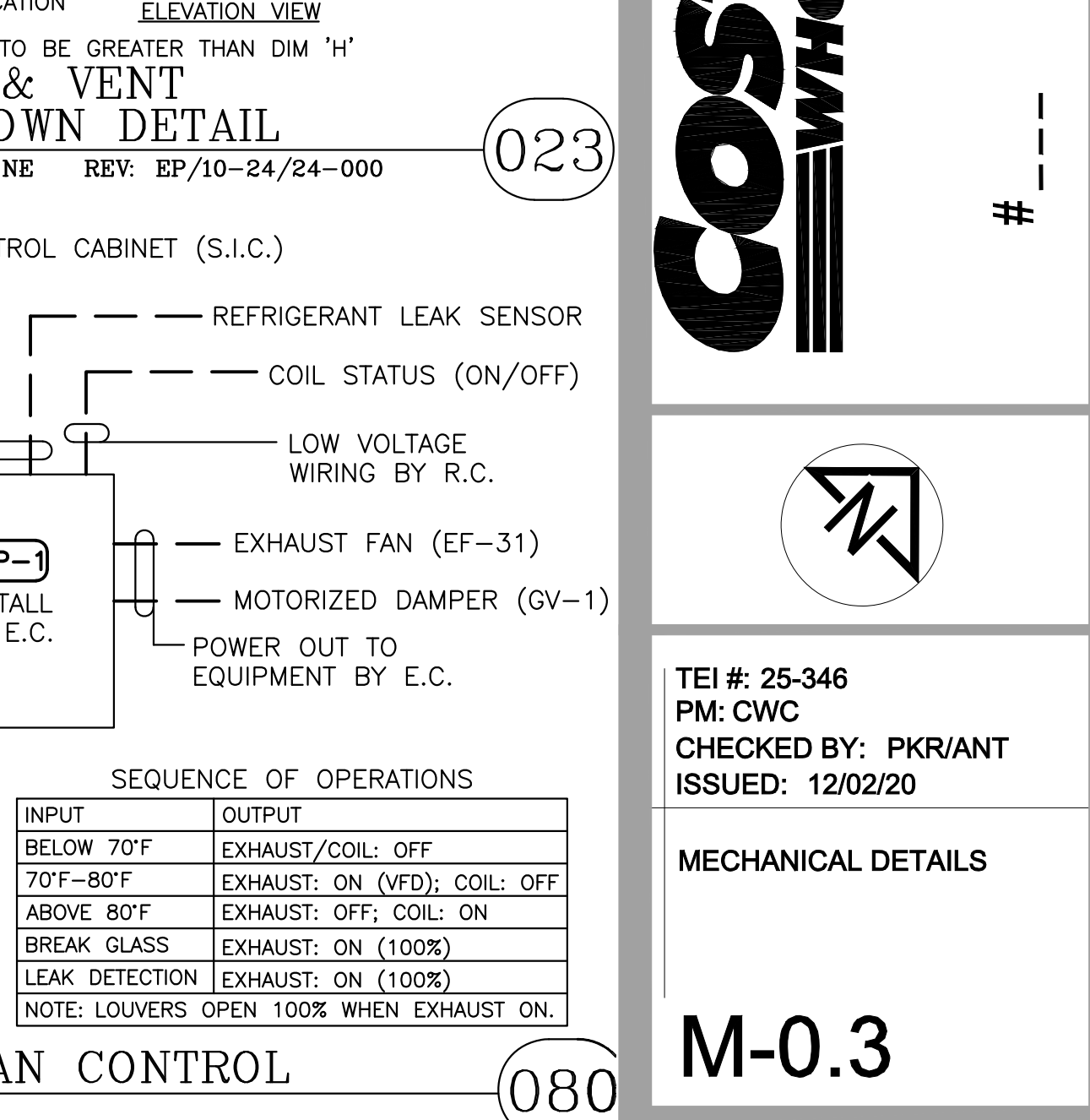
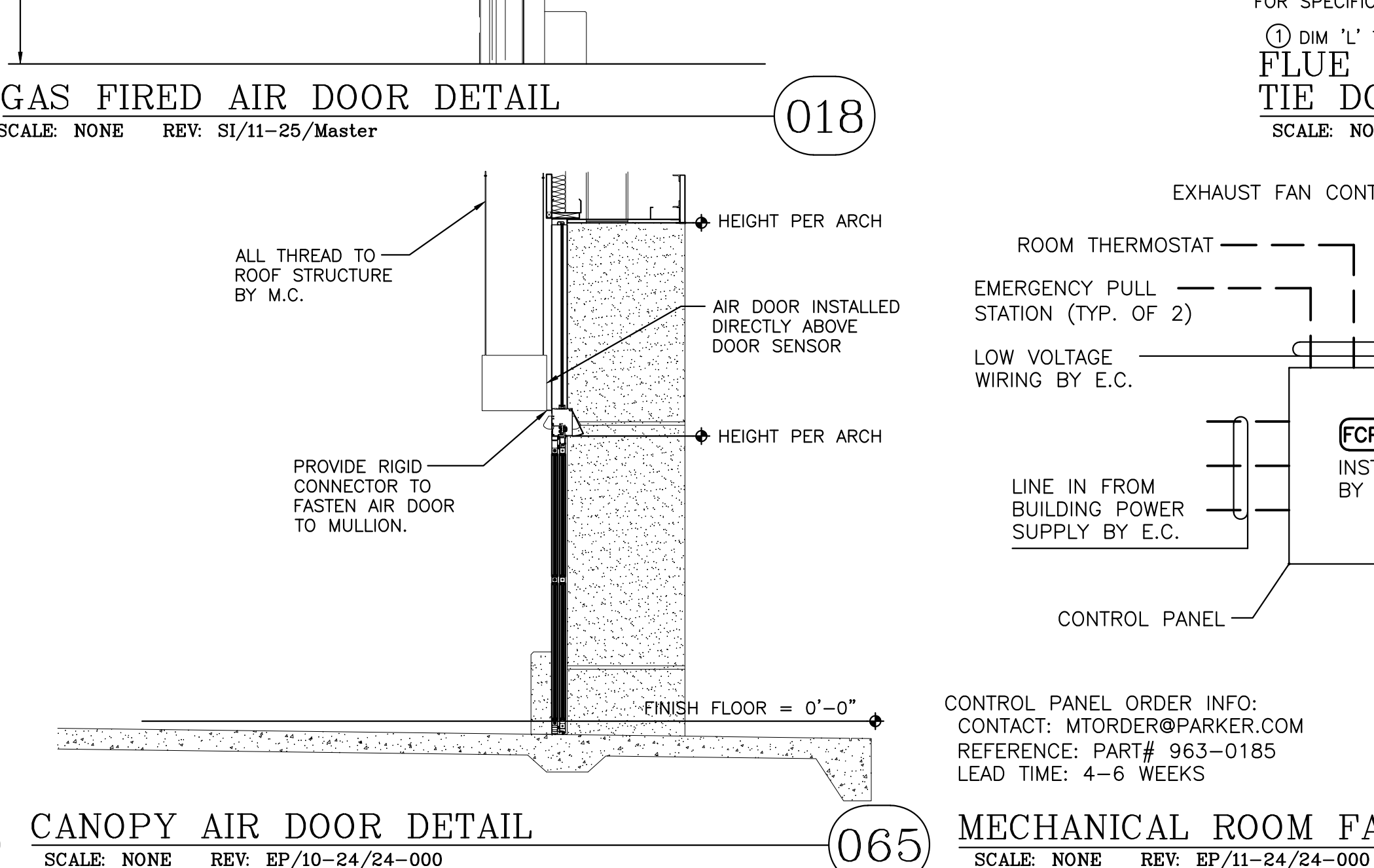
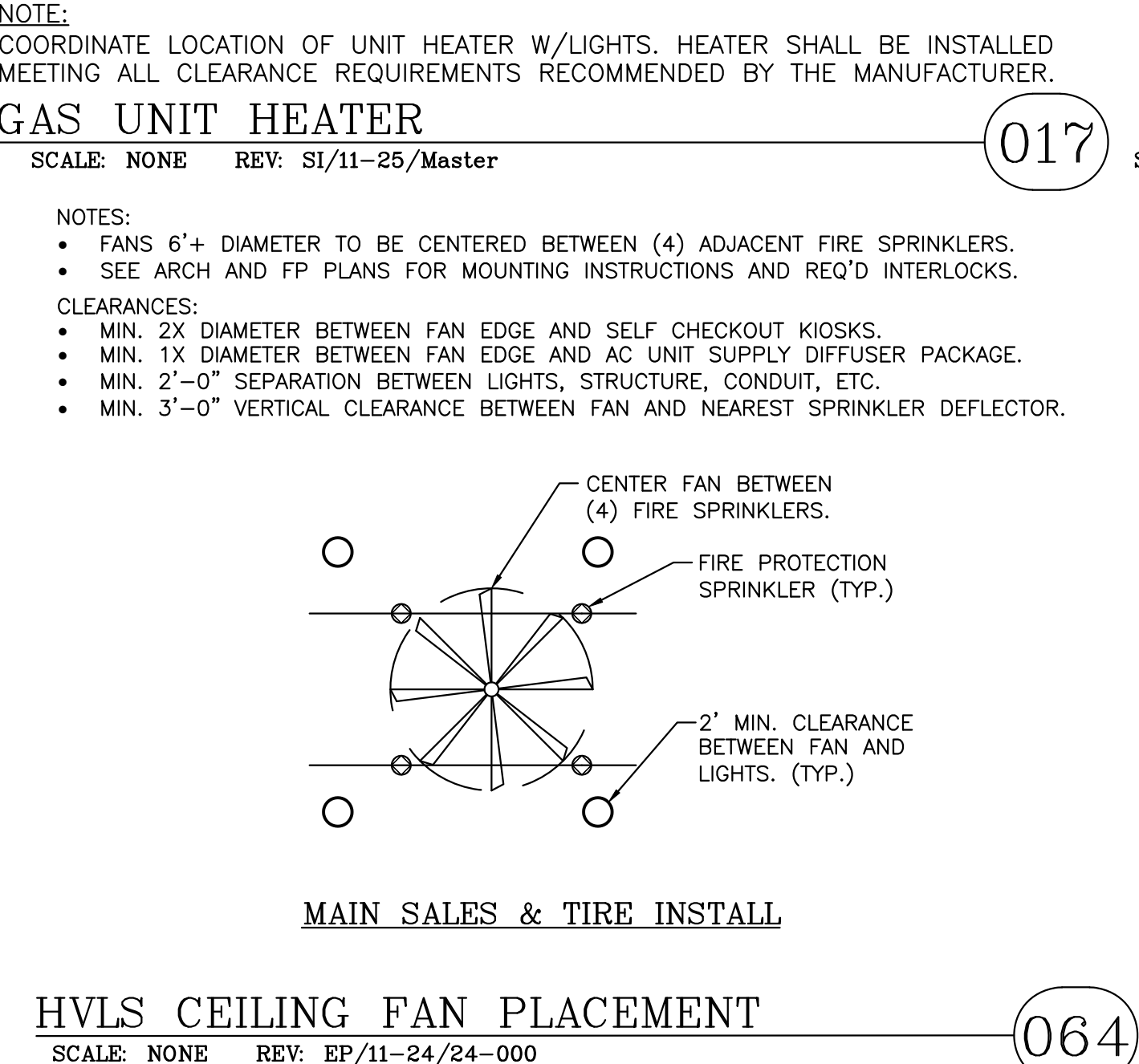
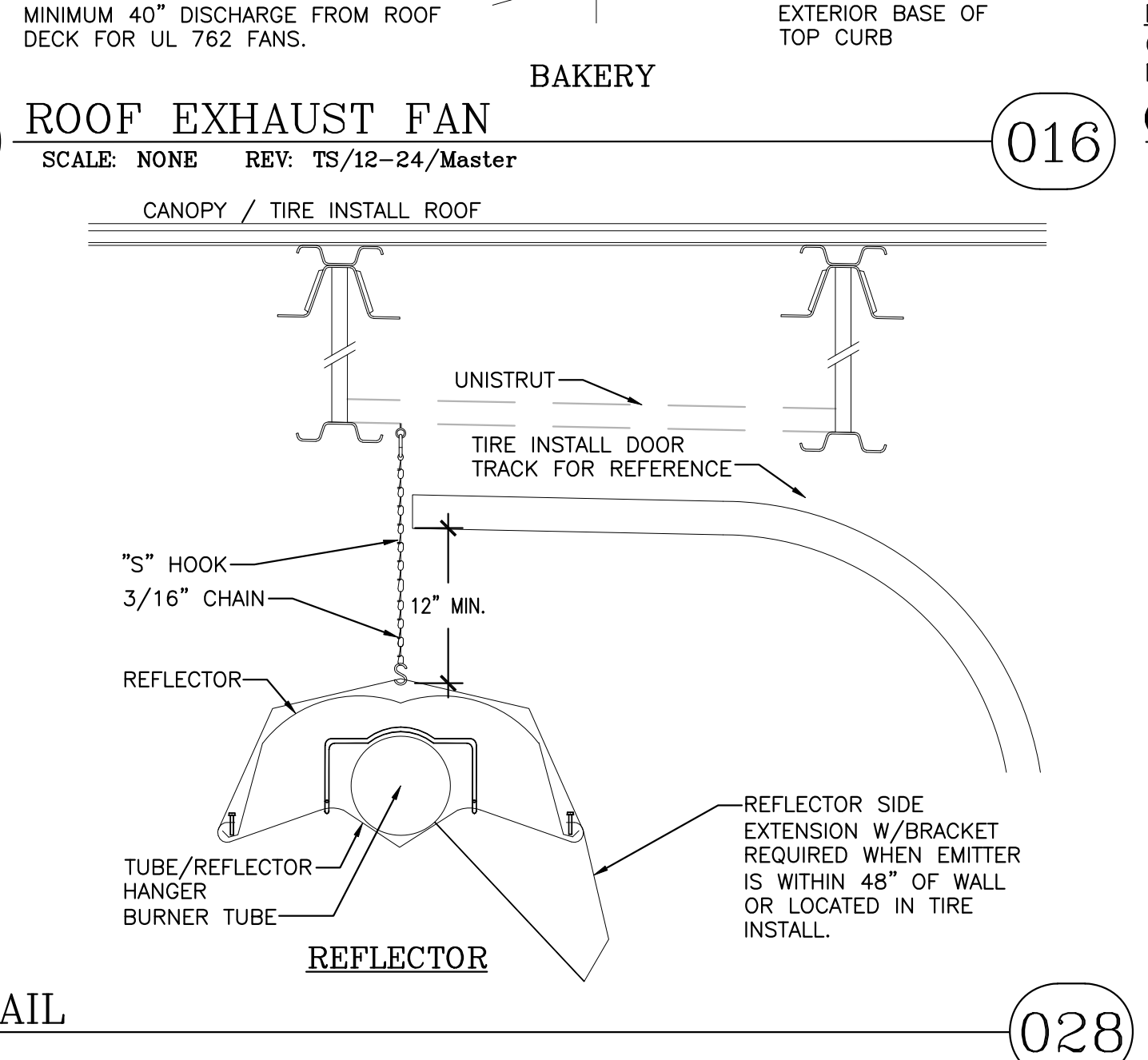
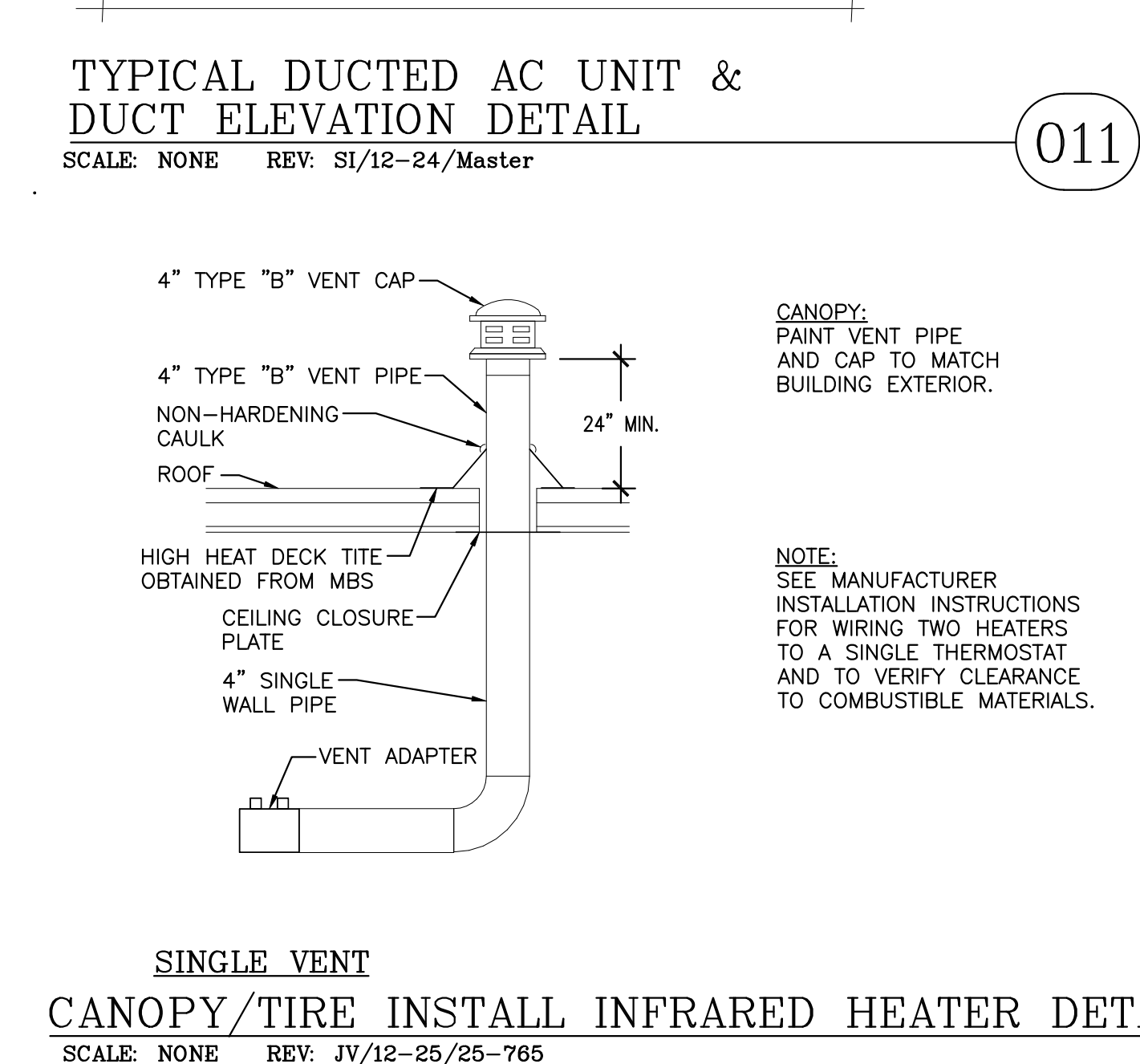
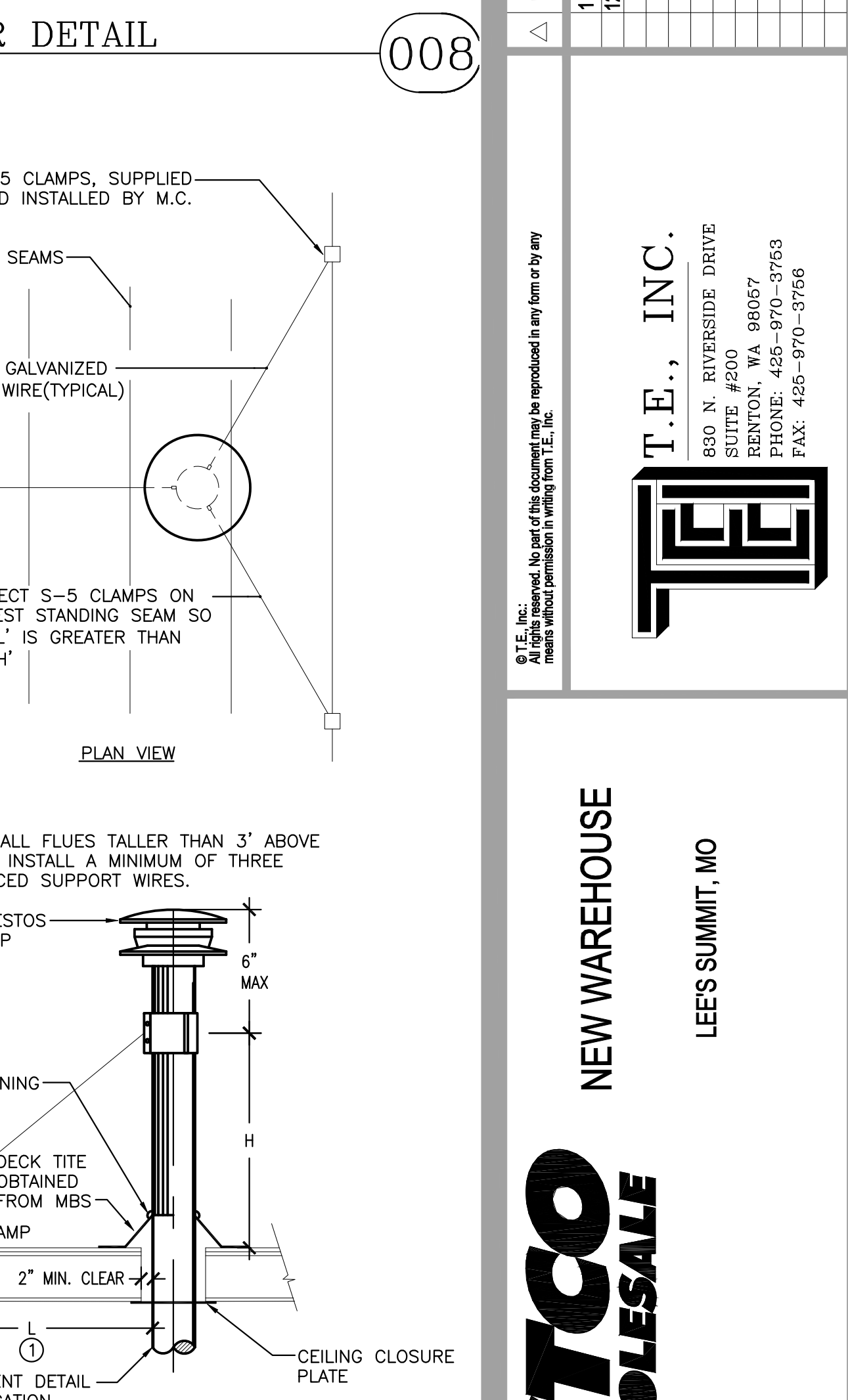
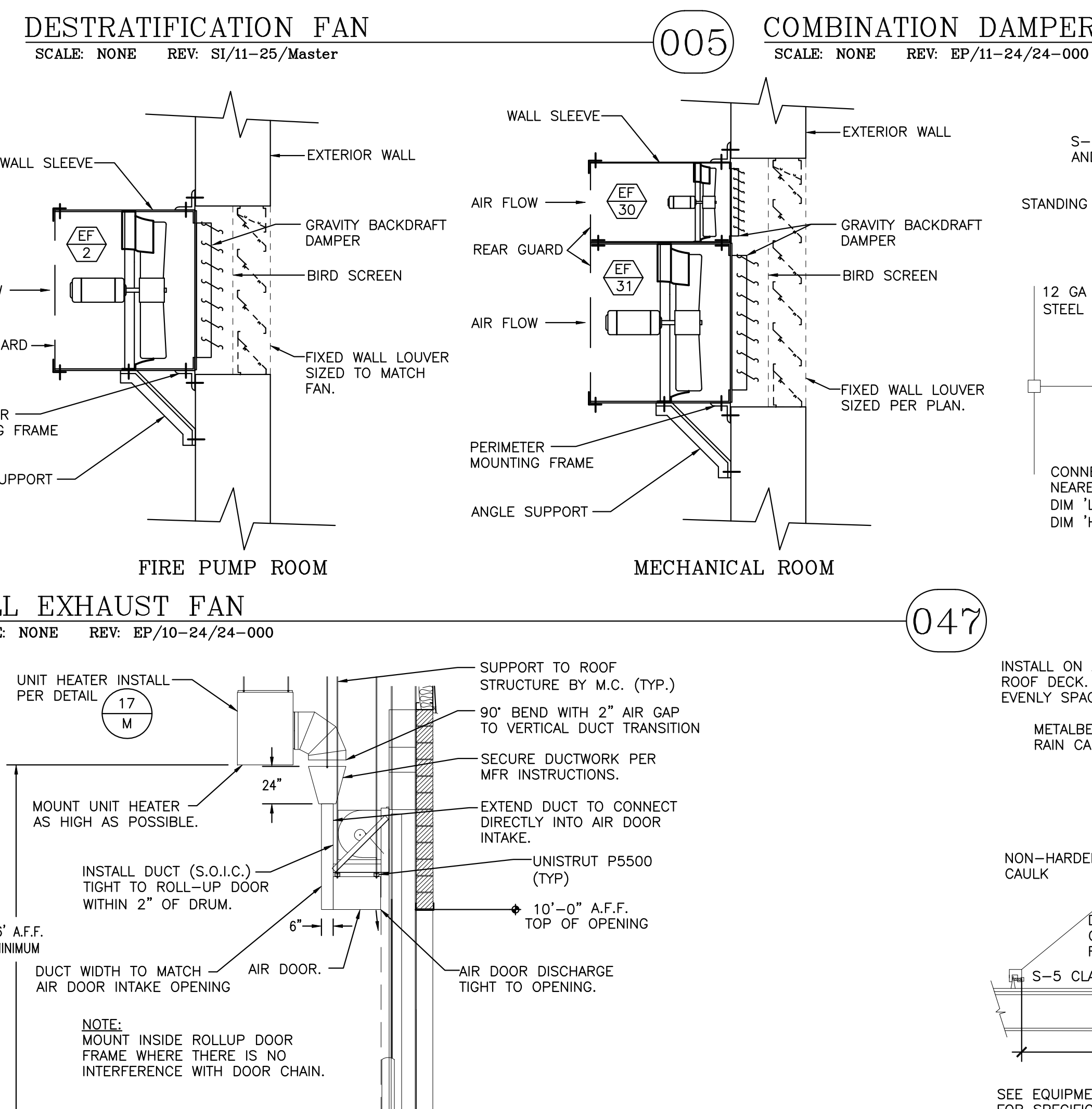
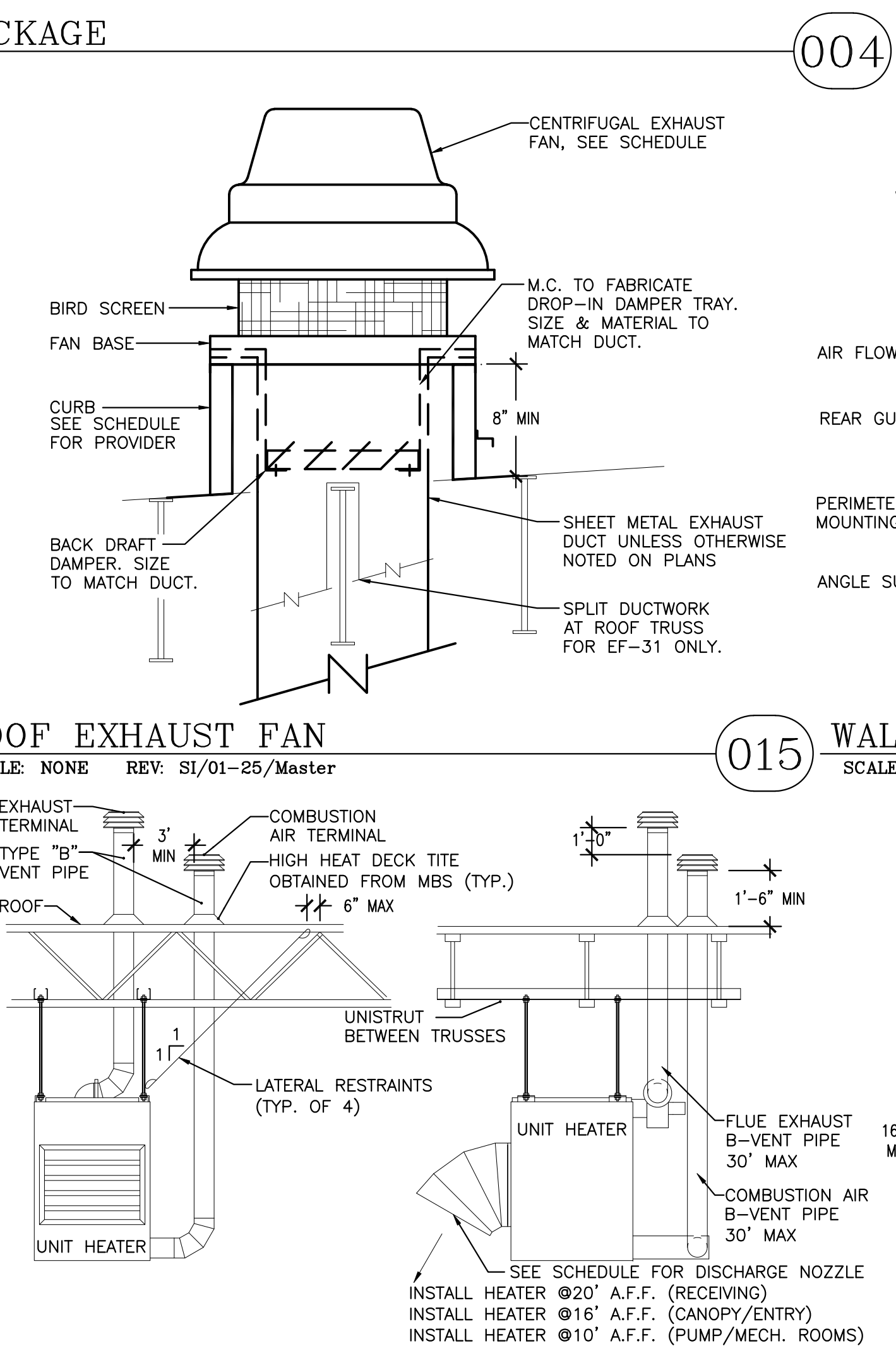
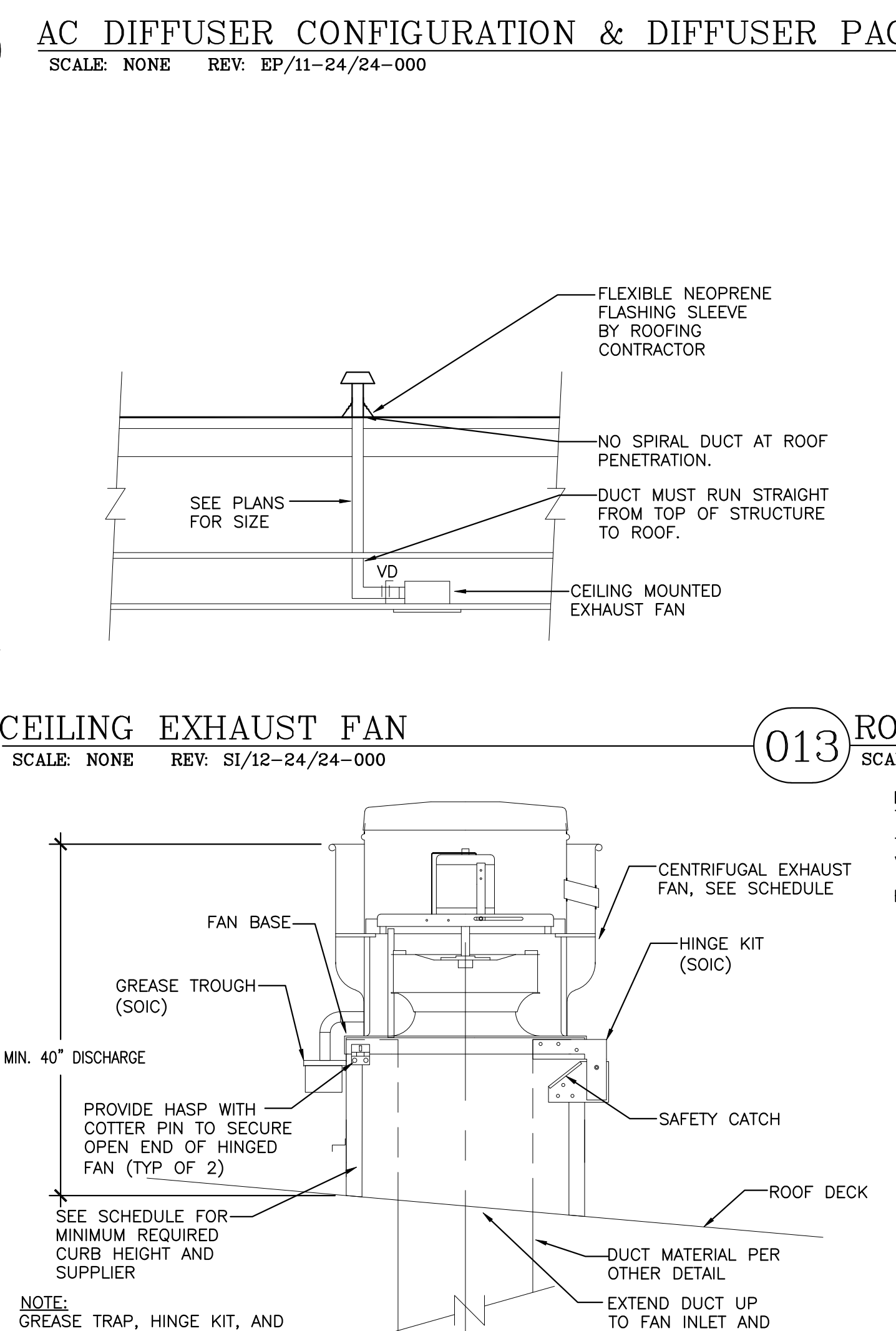
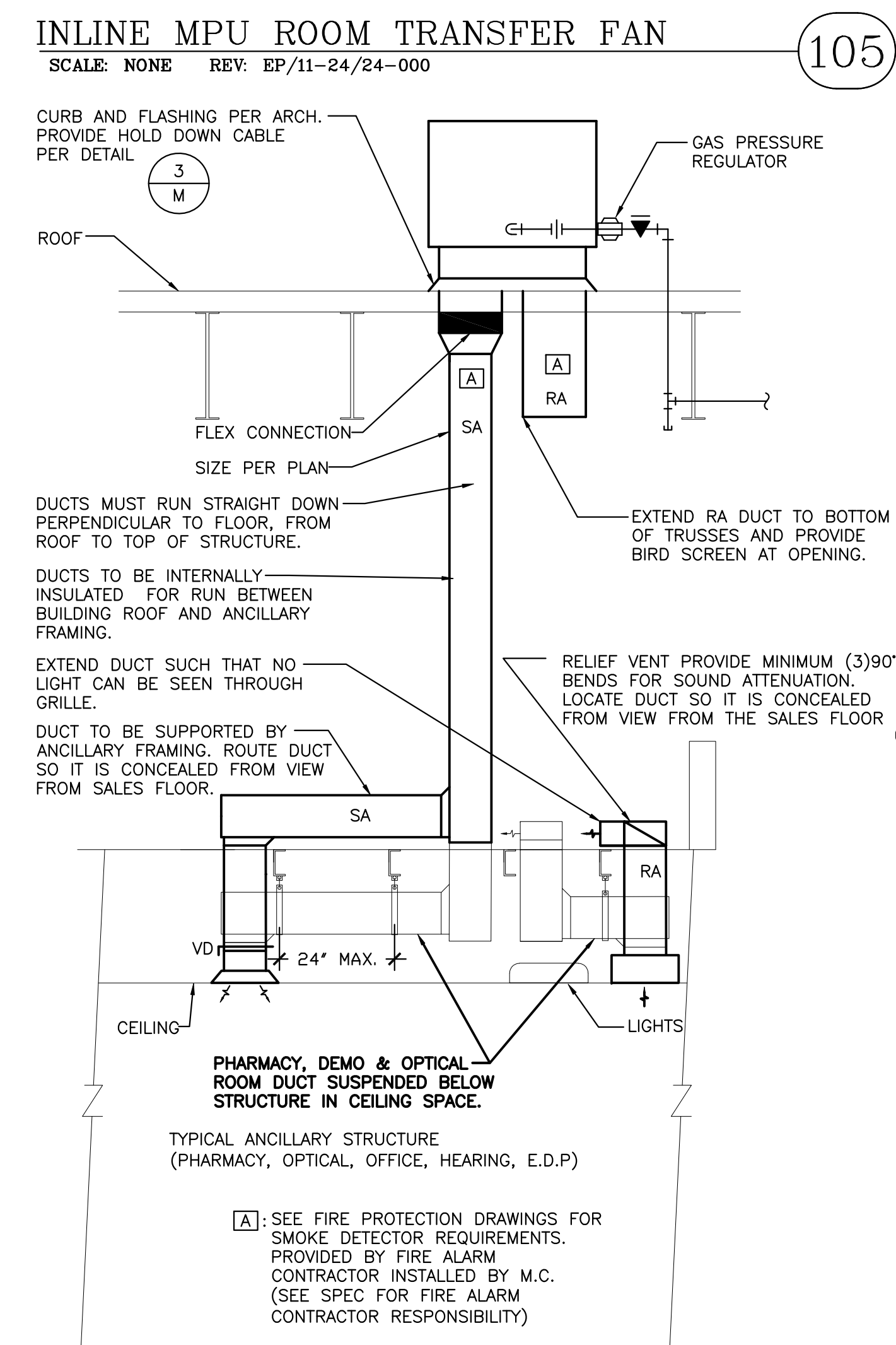
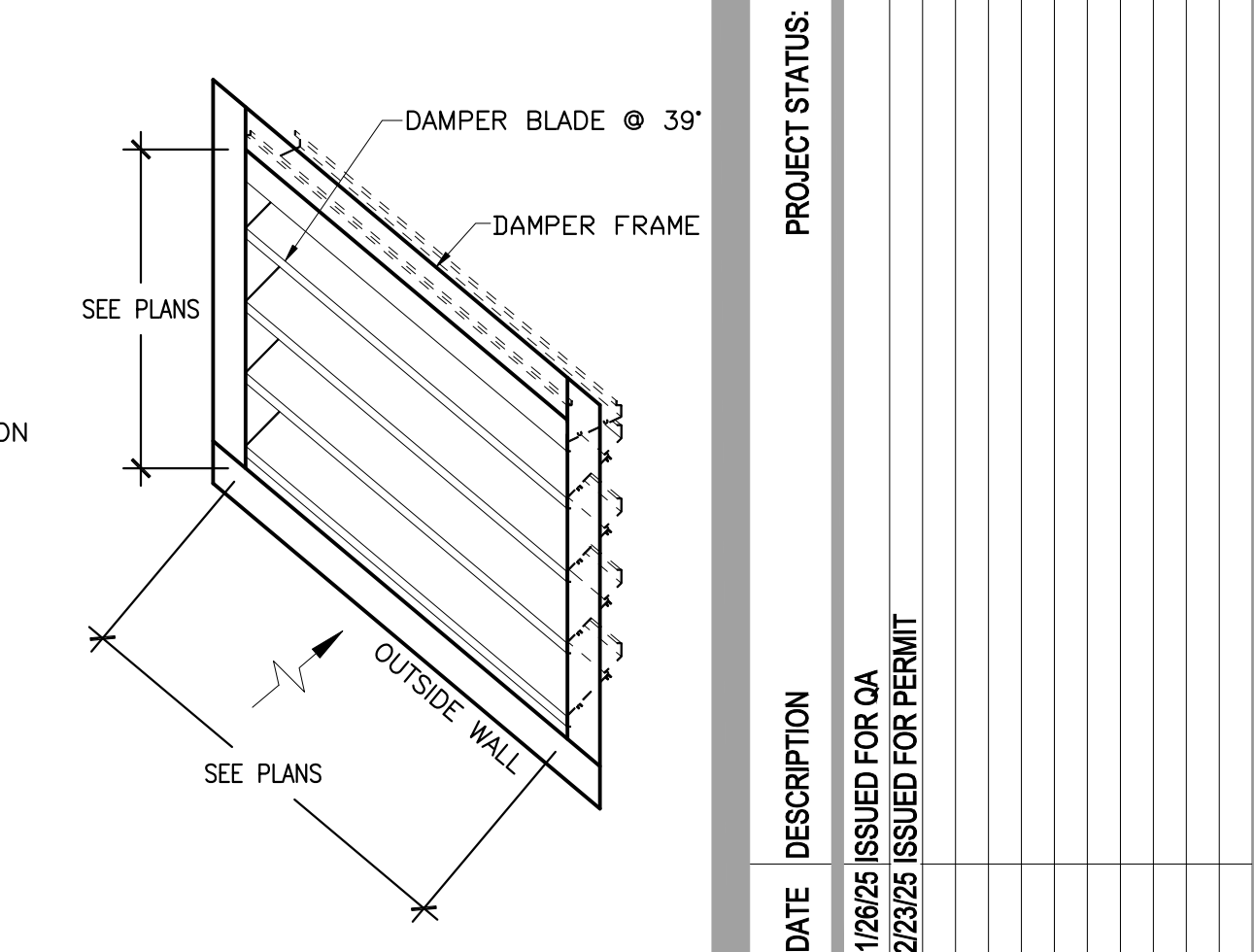
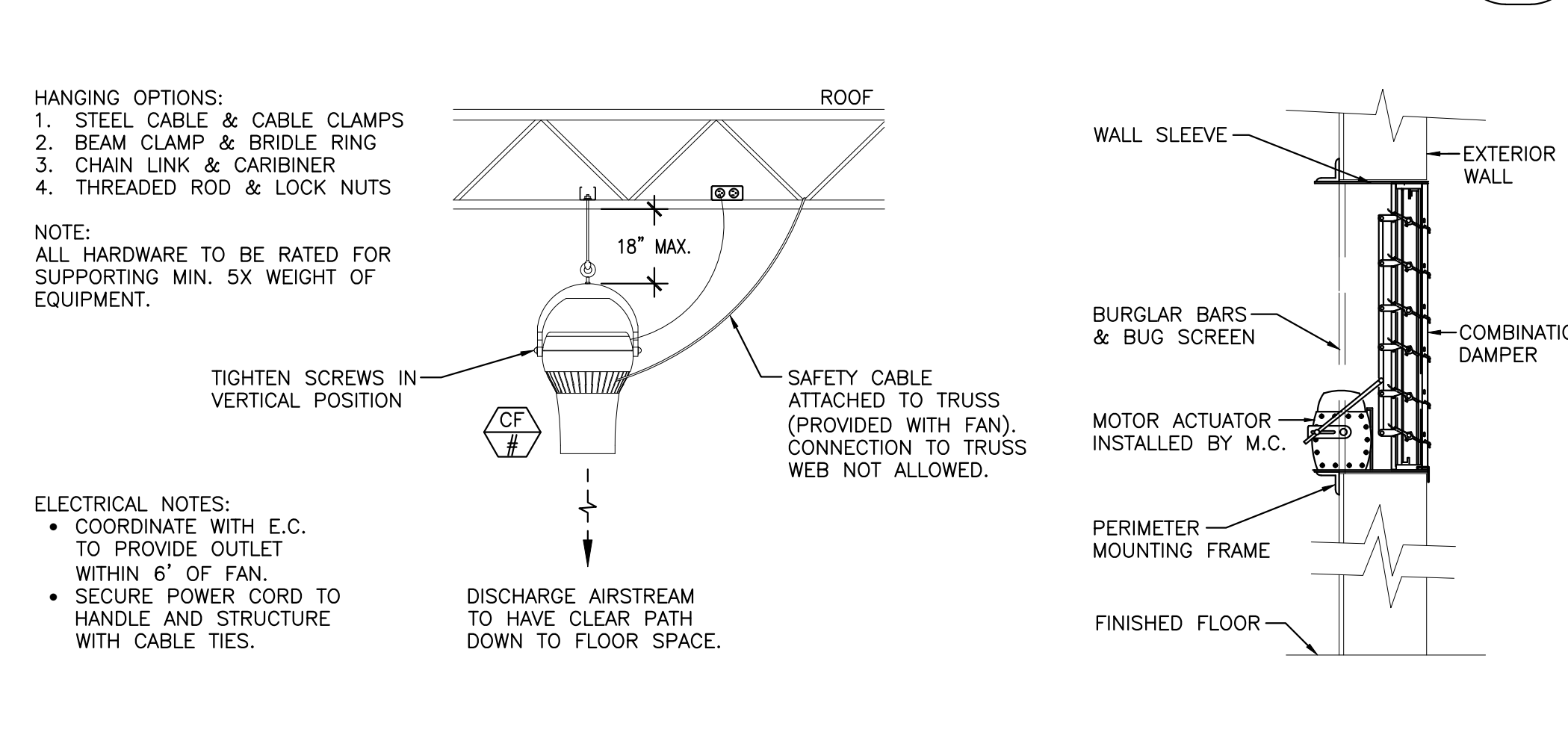
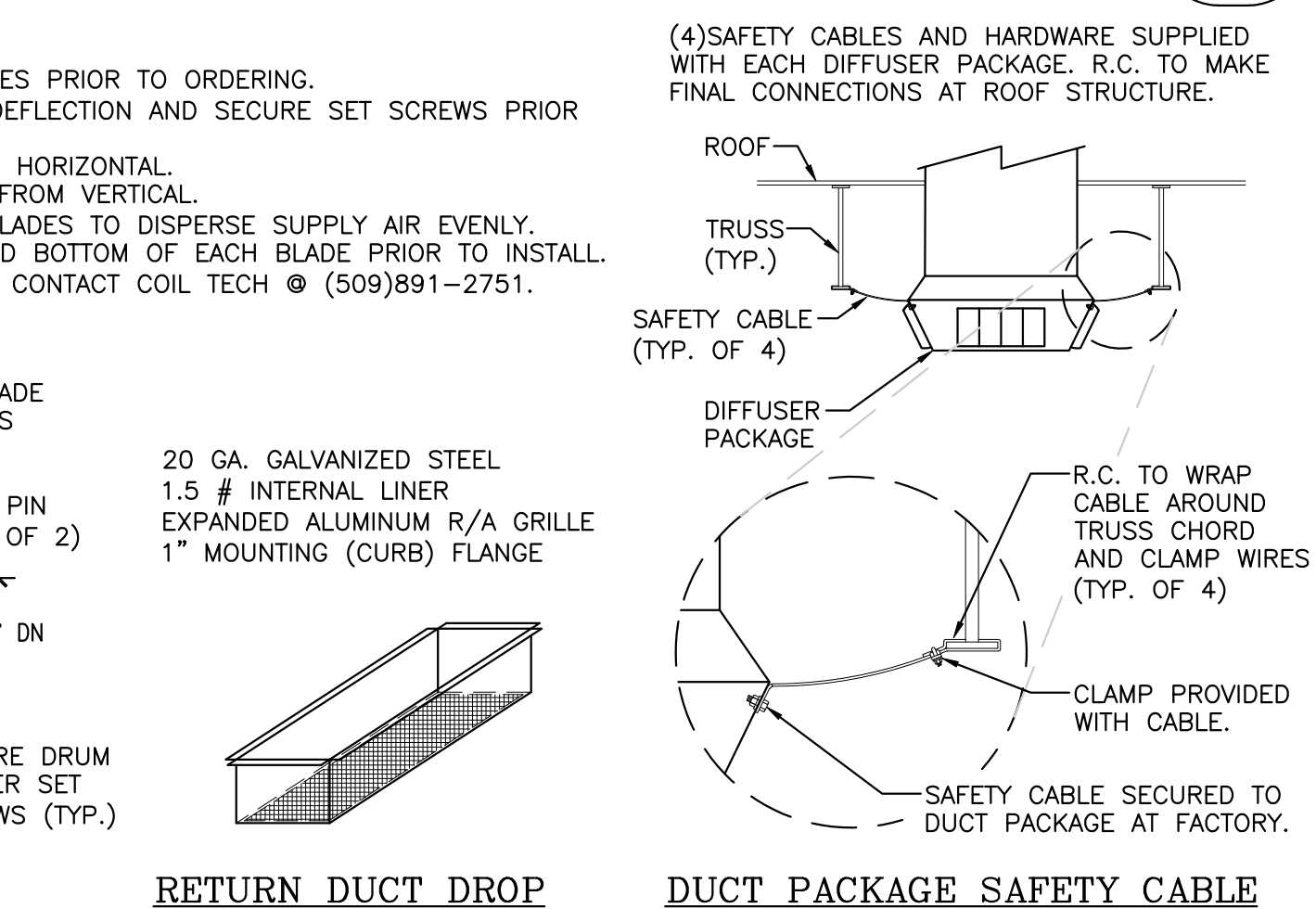
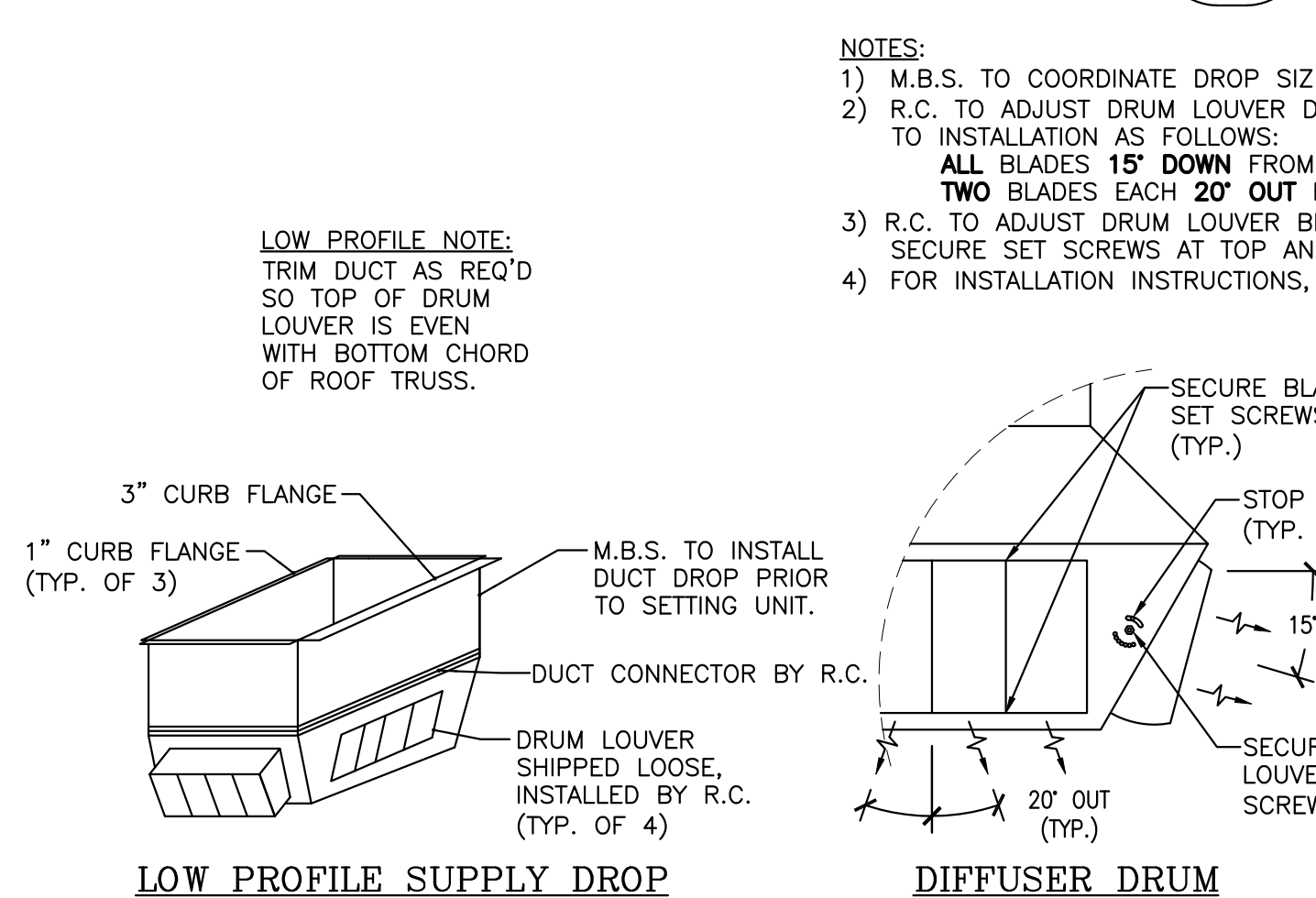
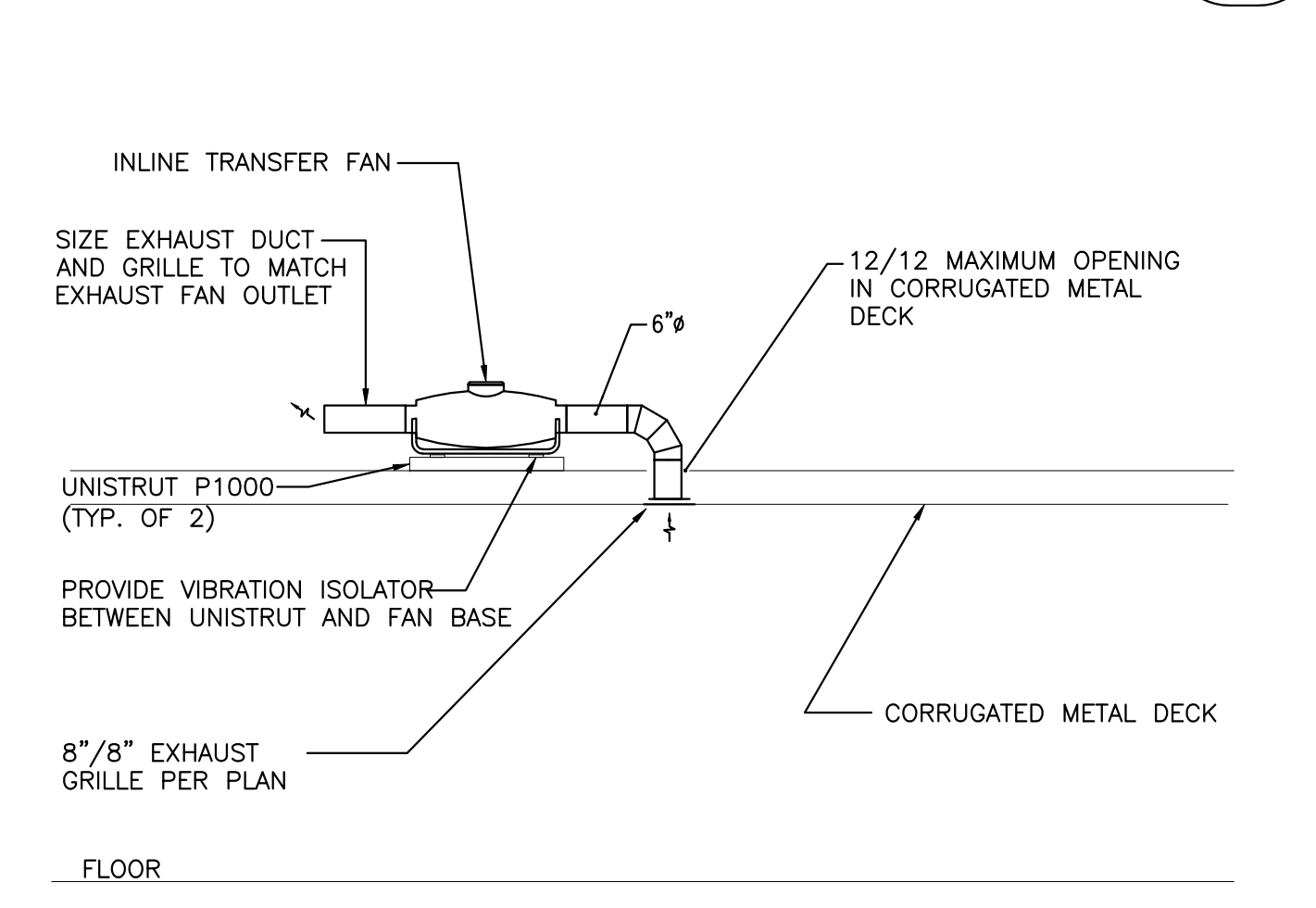
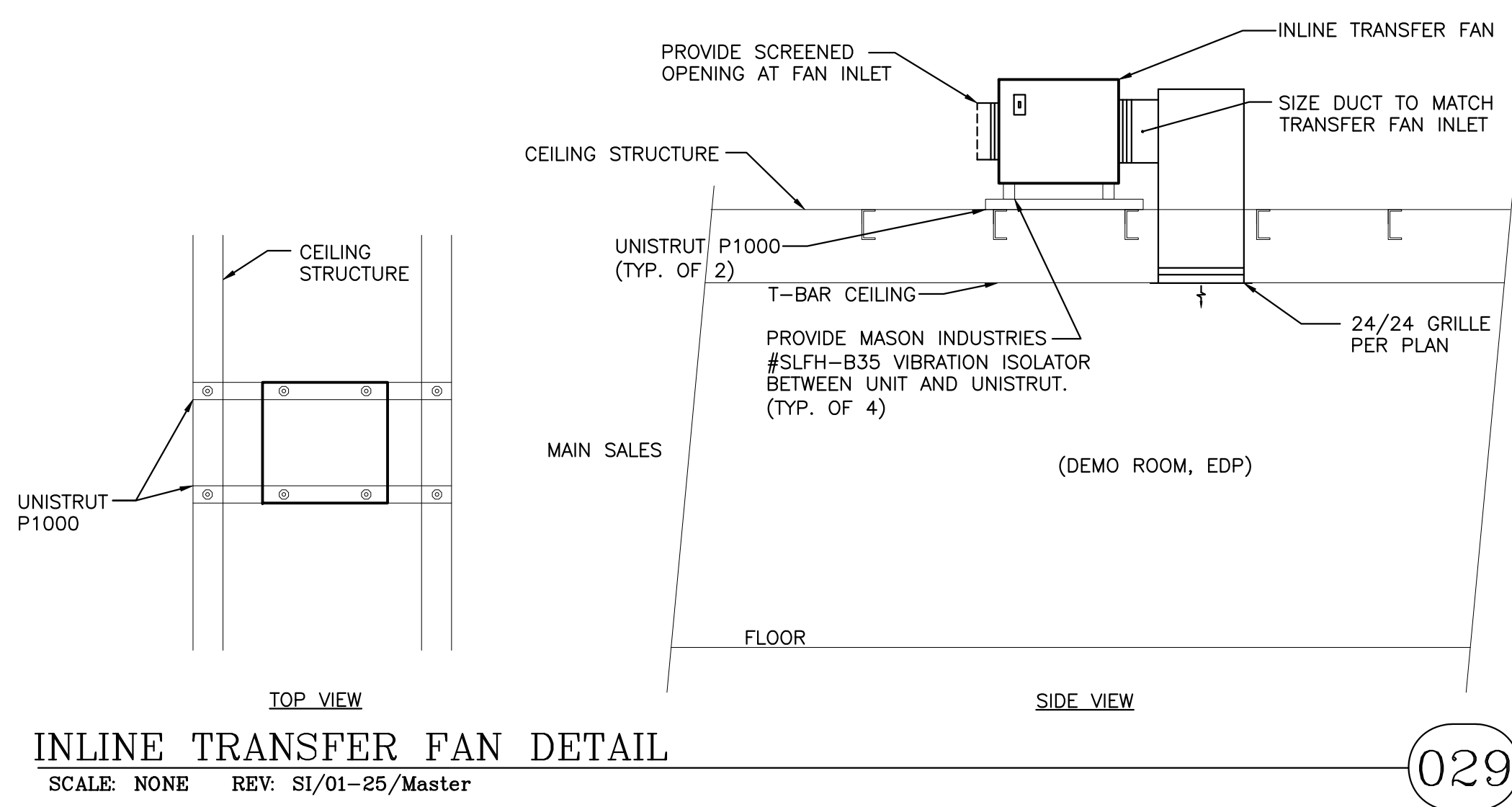
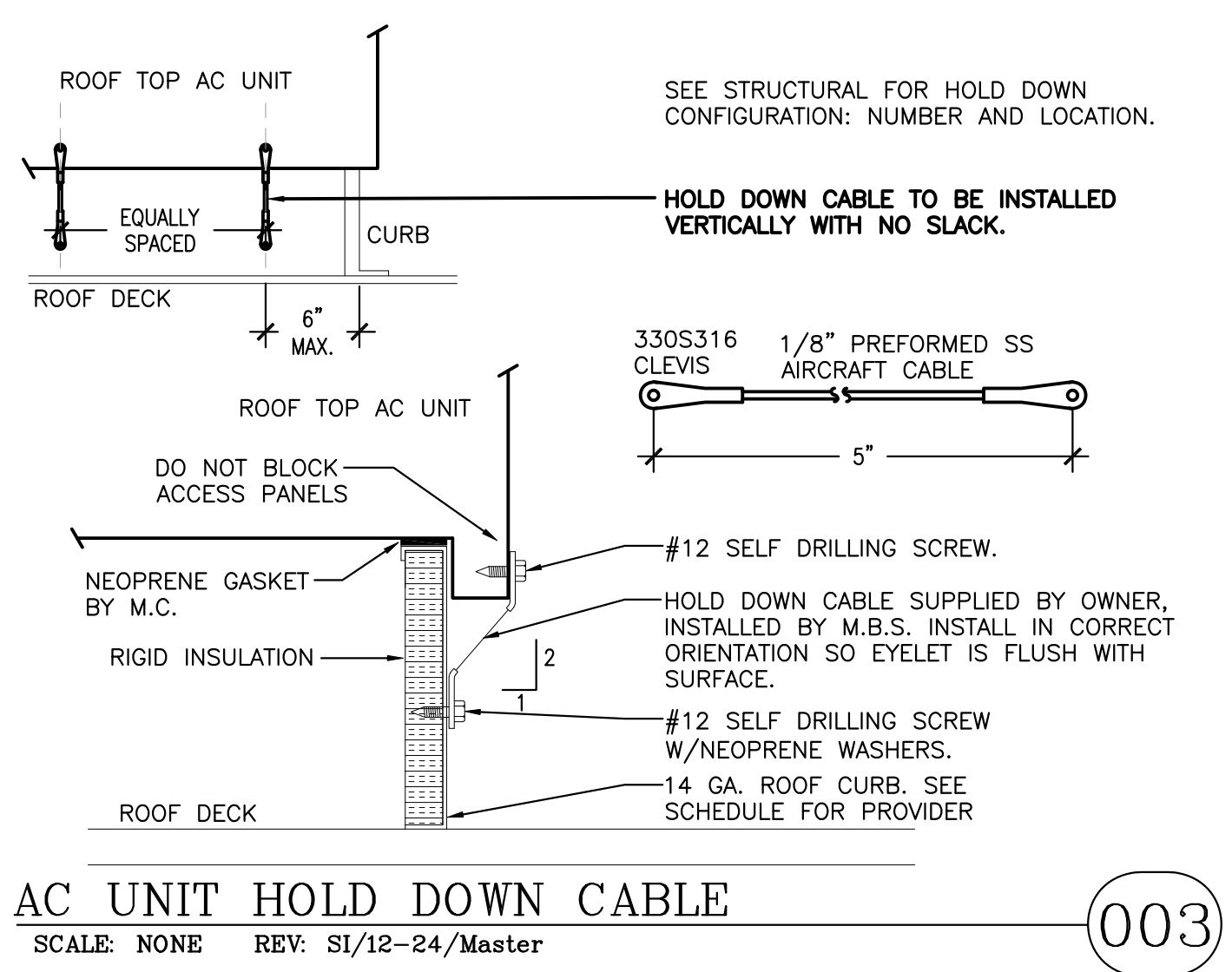
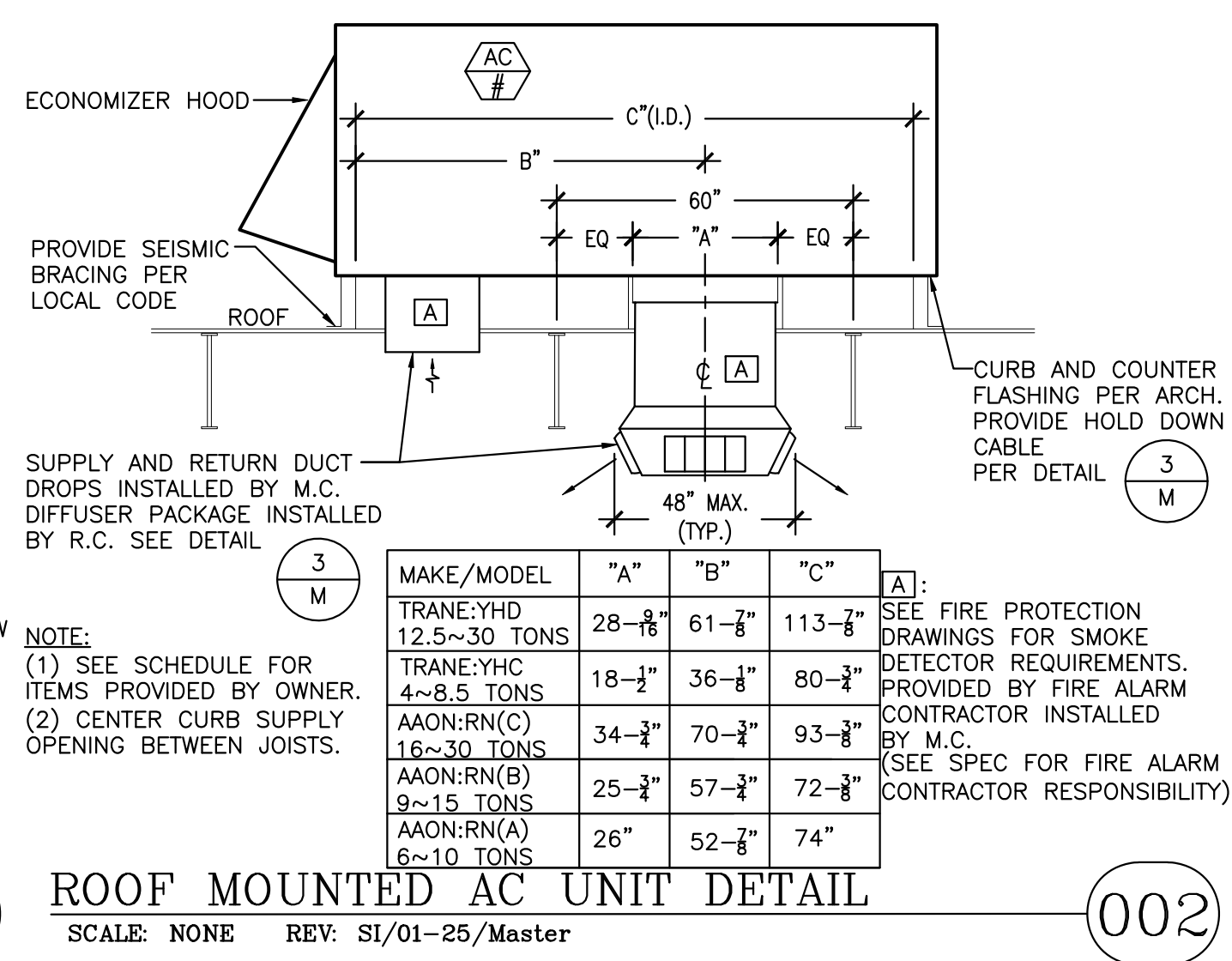
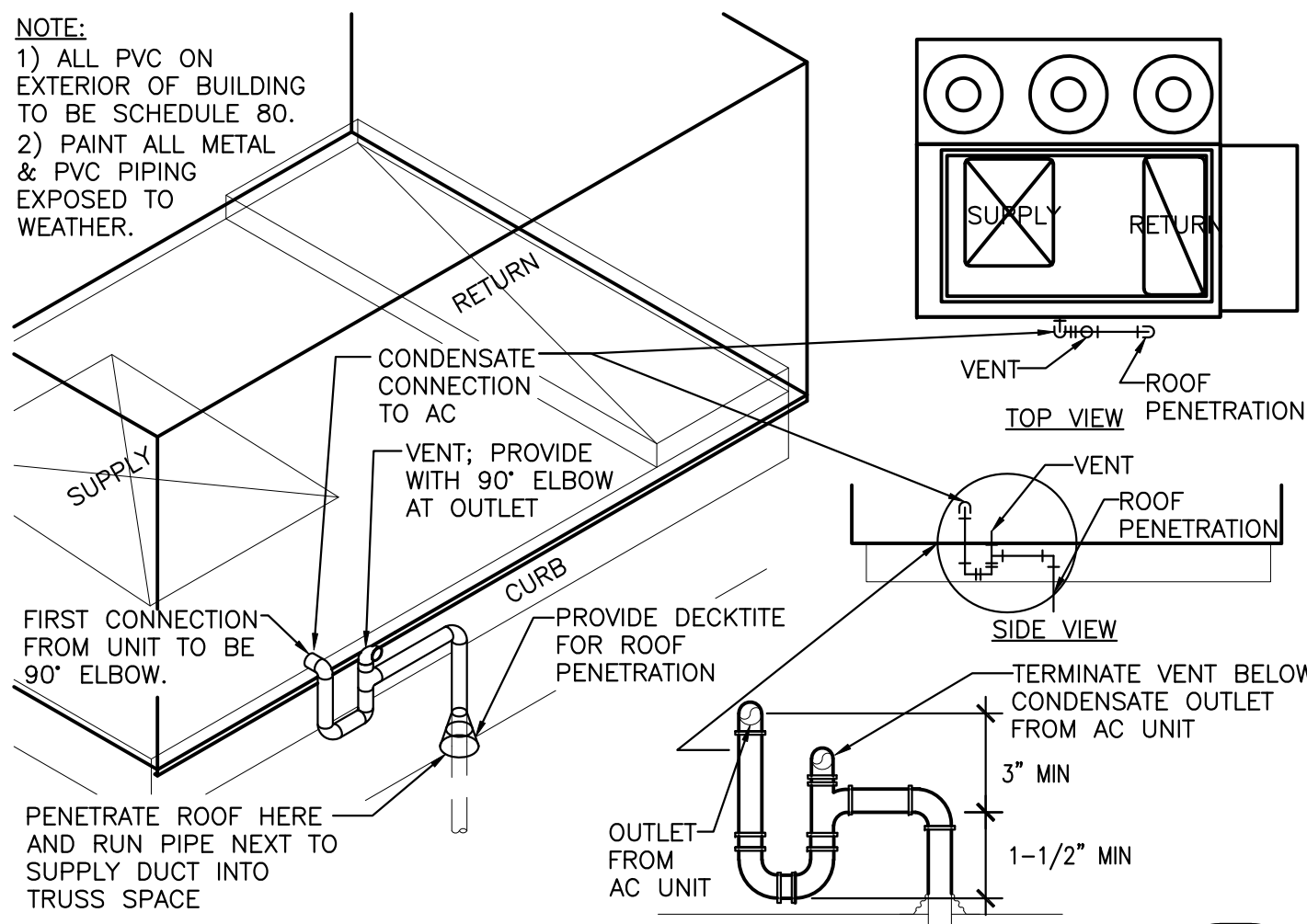
PLAN INDEX		DETAIL	SCOPE
M–0.1	MECHANICAL HVAC SCHEDULES, HVAC LEGEND, GENERAL NOTES, AND INDEX	NONE	GC/RC
M–0.2	MECHANICAL HVAC SCHEDULES AND DETAILS	10.19,20,41,43	GC/RC
M–0.3	MECHANICAL HVAC DETAILS	1.2,3,4,5,8,11,13,15, 16,17,18,23,28,29, 47,64,65,80,105 9,21,22,24,25,27,37 46,70,82,84,85,86,87	GC/RC
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 MECHANICAL CONTROLS PLAN	NONE	GC/RC
MR–1.1	HVAC 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	
	AIR DUCT – FIRST # IS SIDE SHOWN
	FLEXIBLE DUCT CONNECTION
	TURNING VANE
	SUPPLY DUCT UP
	RETURN DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT DOWN
	AIR VOLUME DAMPER
	SQUARE TO ROUND DUCT TRANSITION
	CONDENSATE DRAIN
	AIR CONDITIONER #1
	THERMOSTAT
	THERMOSTAT (W/LOCKING COVER)
	SENSOR
	HUMIDISTAT
	CARBON DIOXIDE CONTINUATION
	TYPICAL
	CUBIC FEET PER MINUTE
	AMBIENT TEMPERATURE
	ENTERING DRY BULB TEMPERATURE
	DOOR GRILLE
	ENTERING WET BULB TEMPERATURE
	1,000 BRITISH THERMAL UNITS/HR.
	EXTERNAL STATIC PRESSURE
	EXHAUST GRILLE
	RETURN GRILLE
	CEILING DIFFUSER
	RETURN AIR
	SUPPLY AIR
	CEILING DIFFUSER WITH FIRE DAMPER
	RETURN GRILLE WITH FIRE DAMPER
	CEILING DIFFUSER FOOD PREPARATION
	RETURN GRILLE FOOD PREPARATION
	CLEAN OUT
	VOLUME DAMPER
	METAL BUILDING SUPPLIER
	MECHANICAL CONTRACTOR
	GENERAL CONTRACTOR
	SUPPLY/INSTALL BY CONTRACTOR
	SUPPLY/INSTALL BY OWNER
	SUPPLY BY OWNER INSTALL BY CONTRACTOR
	SUPPLY BY OWNER INSTALL BY REFR. CONTRACTOR
	UNLESS NOTED OTHERWISE
	REFRIGERATION CONTRACTOR

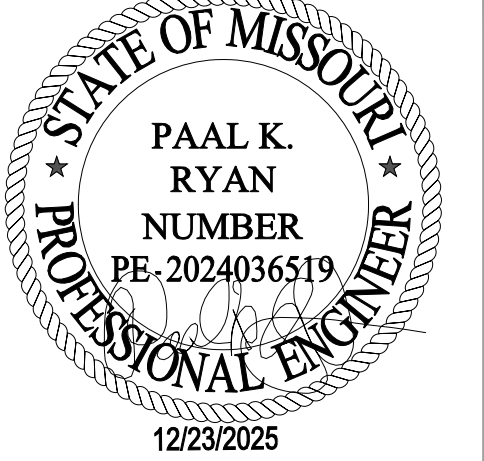
EXHAUST FAN EQUIPMENT SCHEDULE – CONTRACTOR SUPPLIED									
SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
EF–1	EXHAUST FAN	PUBLIC RESTROOM	COOK ACE–DEC 150	2000 CFM @0.50" SP. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED UNDER MOTOR DOME. CONTROLLED BY TS–1 PROVIDED BY M.C.	3/4 HP 120V/1ø	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/1ø	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/1ø	15#	13/M	8"ø 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/1ø	108#	15/M	15" SQ. ROOF OPENING	(1) (2) (4)
EF–7	EXHAUST FAN	DELI	COOK ACE–DEC 101	600 CFM @ 0.25" SP. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED UNDER MOTOR DOME. INTERLOCK WITH DISHWASHER BY E.C.	1/6HP 120V/1ø	42#	15/M	14" SQ. ROOF OPENING	(1) (2) (4)
EF–23	EXHAUST FAN	CHICKEN PREP	COOK ACE–DEC 101 OR60	160 CFM @ 0.50" SP. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED UNDER MOTOR DOME. INTERLOCK WITH POWERSOAK SINK BY E.C.	1/8HP 120V/1ø	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/1ø	30#	47/M	13" SQ. ROOF OPENING.	(2) (3) (5) (6)
EF–31	EXHAUST FAN	MECHANICAL RM.	COOK AWB 42A10B	14,000CFM @ 0.50" SP. CONTROLLED BY EXHAUST FAN CONTROL PANEL PROVIDED BY G.C., WIRED BY E.C.	3 HP 208V/3ø	284#	47/M	31" SQ. ROOF OPENING.	(2) (5) (6)
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.	(6)
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	
SP–6	SUPPLY FAN	FOOD SERVICE FAN	COOK SQN–HEC 090	1300 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY STRUCTURE. CONTROLLED BY T*STAT (40°F MIN.) PROVIDED BY M.C., INSTALLED BY E.C. T*STAT TO BE MOUNTED @ 24" A.F.F.	1/6HP 120V/1ø	90#	30/M		(4)
TF–21	TRANSFER FAN	DEMO ROOM	COOK SQN–HEC 090	1500 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY 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/1ø	90#	29/M	12" SQ. INLET/OUTLET.	(4) (5)
TF–22,23	TRANSFER FAN	EDP	COOK SQN–DEC 120 GALV	2200 CFM @ 0.50" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY 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.	1/2 HP 120V/1ø	150#	29/M	18" SQ. INLET/OUTLET. T*STAT SETPOINT: 75°F OVDG @ 70°F, 10VDC @ 75°F	(4) (5)
TF–24	TRANSFER FAN	MPU	S&P TD150S	260 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY STRUCTURE. CONTROLLED BY 12HR TIMER PROVIDED BY M.C., INSTALLED BY E.C. TIMER TO BE MOUNTED @ 48" A.F.F.	60.9WATTS 120V/1ø	15#	105/M	6"ø. INLET/OUTLET.	(4) (5)
TF–25	TRANSFER FAN	QUIET ROOM	S&P TD150S	260 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY STRUCTURE. INTERLOCK WITH LIGHTING BY E.C.	60.9WATTS 120V/1ø	15#	105/M	6"ø. INLET/OUTLET.	(4) (5)
TF–27	TRANSFER FAN	MDP	COOK SQN–D 100 GALV	1200 CFM @ 0.38" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY 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. UNADJUSTABLE 7 DAY SETPOINT 20 ON/OFF SET POINTS.	1/2 HP 120V/1ø	150#	29/M	14" SQ. INLET/OUTLET. T*STAT SETPOINT: 85°F OVDG @ 75°F, 10VDC @ 85°F	(4) (5)
TS–1	TIME SWITCH	EF–1	TORK EW101B	WITH MANUAL OVERRIDE. NEMA 3R ENCLOSURE TIME CLOCK PROVIDED BY M.C.	120V/1ø		PLAN M–2.1 PLAN M–1.1		
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. DO NOT ADJUST SPEED CONTROLLER SLOWER 60% OF FAN MOTOR SPEED.									
3. PROVIDE MOTOR STARTER AND OVERLOAD PROTECTION FOR ALL MOTORS PER SPEC SECTION 230000.									
SCHEDULE NOTES: (SEE COLUMN ON RIGHT FOR APPLICABILITY):									
(1) ROOF CURB FOR METAL ROOF PROVIDED BY M.B.S.									
(2) PROVIDE BACKDRAFT DAMPER.									
(3) ALLOW UP TO 200% OF AIR FLOW FOR BALANCE.									
(4) PROVIDE FAN SPEED CONTROLLER MOUNTED IN ACCESSIBLE LOCATION NEAR EQUIPMENT (U.N.O.)									
(5) PROVIDE WITH OUTLET SAFETY SCREEN.									

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.

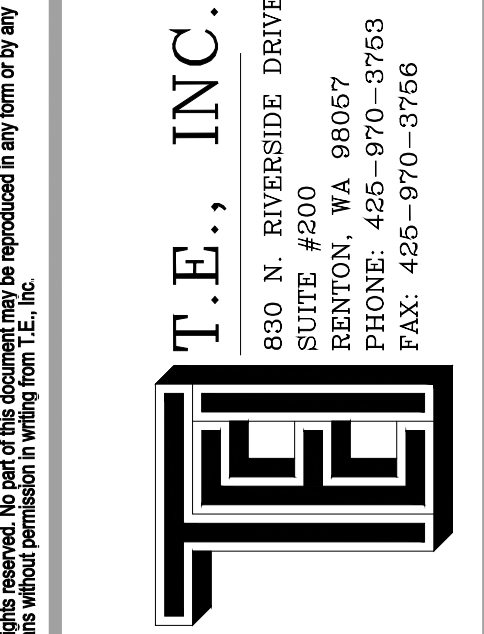
1. - FINAL CONNECTIONS TO UNIT BY RC.
 - START-UP, TESTING, BALANCING AND COMMISSIONING OF ALL UNITS BY RC.
 - INITIAL FILTER CHANGE BY RC.
2. - SPAN TO INSTALL DUCT DROP IN CURB PRIOR TO CONTRACTOR SETTING UNIT.
3. - T'START AND LOCKING ENCLOSURE PROVIDED BY EQUIPMENT MANUFACTURER; INSTALLED BY M.C.
4. - GAS PRESSURE REGULATOR PROVIDED BY GC.
5. - INSULATION TO BE PROVIDED AND INSTALLED BY RESPONSIBLE DUCTWORK CONTRACTOR WHERE REQ'D PER PLANS & SPEC SECTION 230700.
6. - HOLD DOWN CABLES PROVIDED AND INSTALLED BY SPAN (MBS).



ISSUED FOR PERMIT



PROJECT STATUS:	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION
11/28/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT



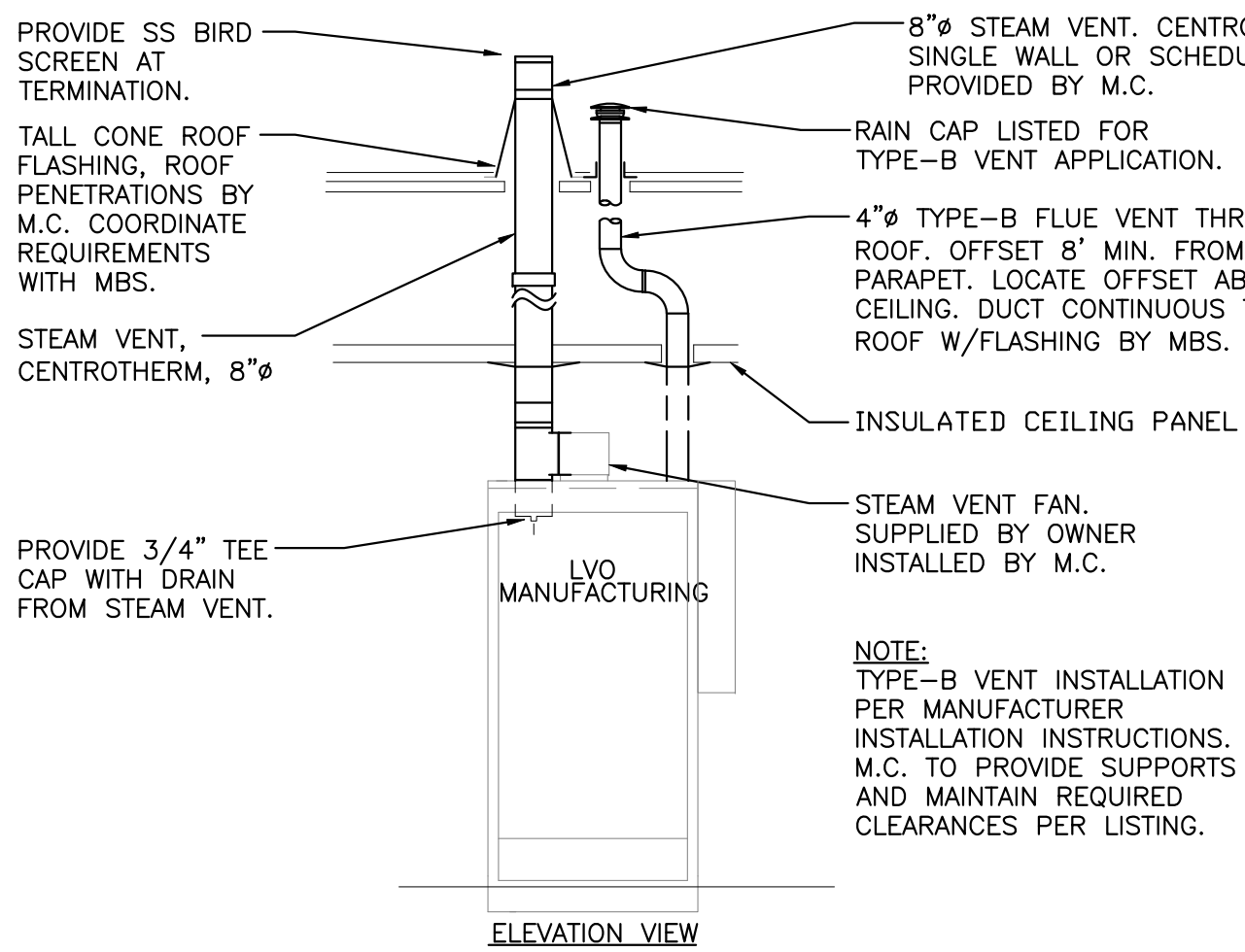
NEW WAREHOUSE
LEES SUMMIT, MO



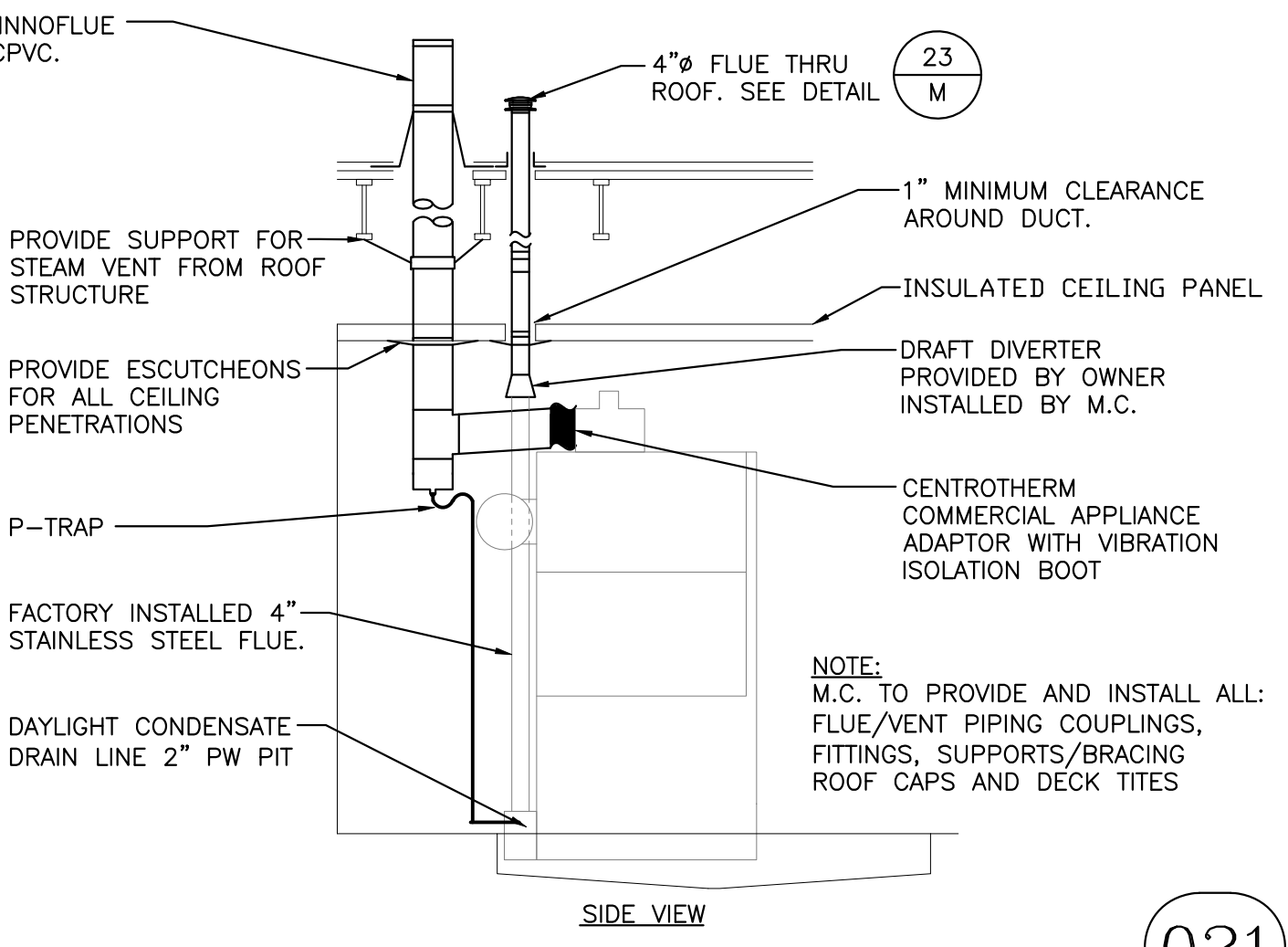
TEI #: 25-346
PM: CWC
CHECKED BY: PKR/ANT
ISSUED: 12/02/20

MECHANICAL DETAILS

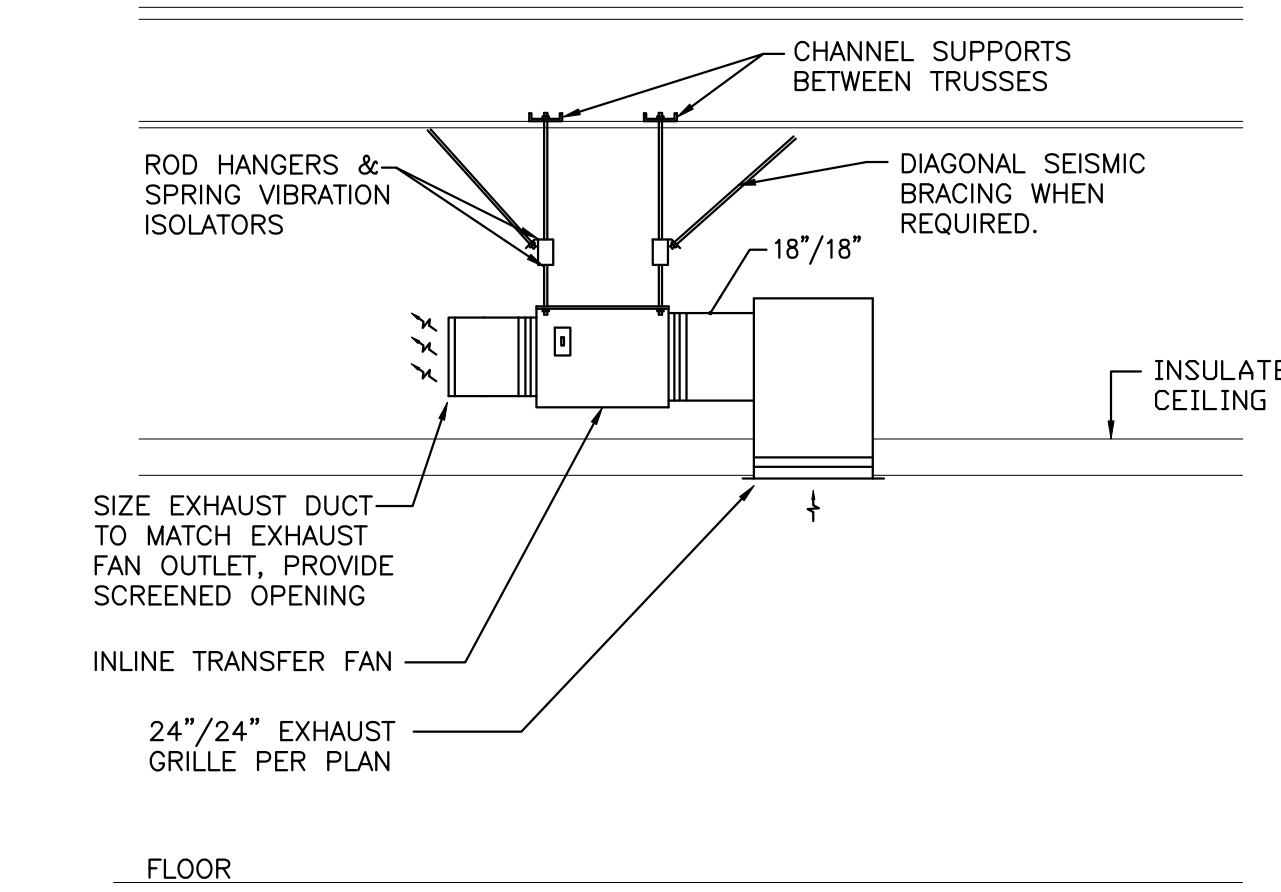
M-0.3



RACK WASHER E-6
SCALE: NONE REV: JV/01-25/Master

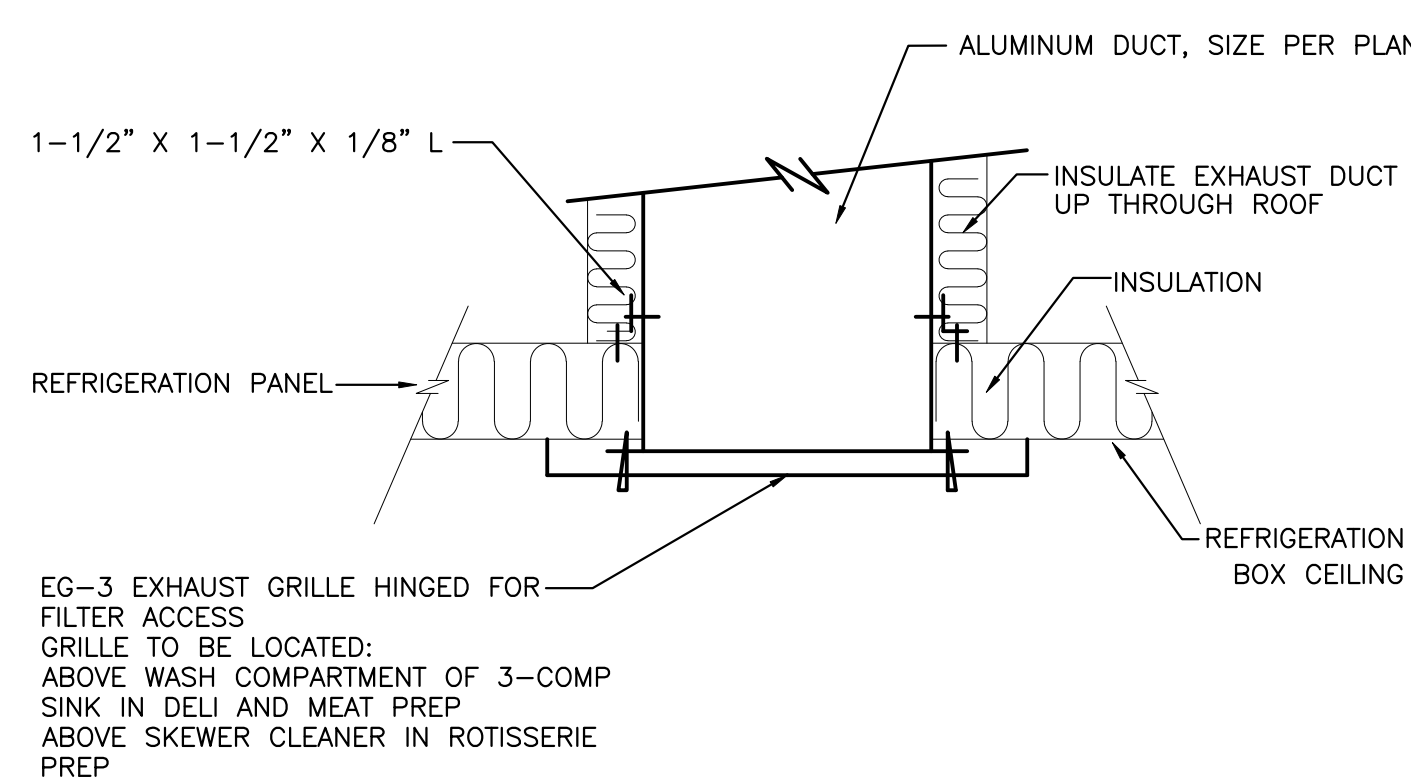


021



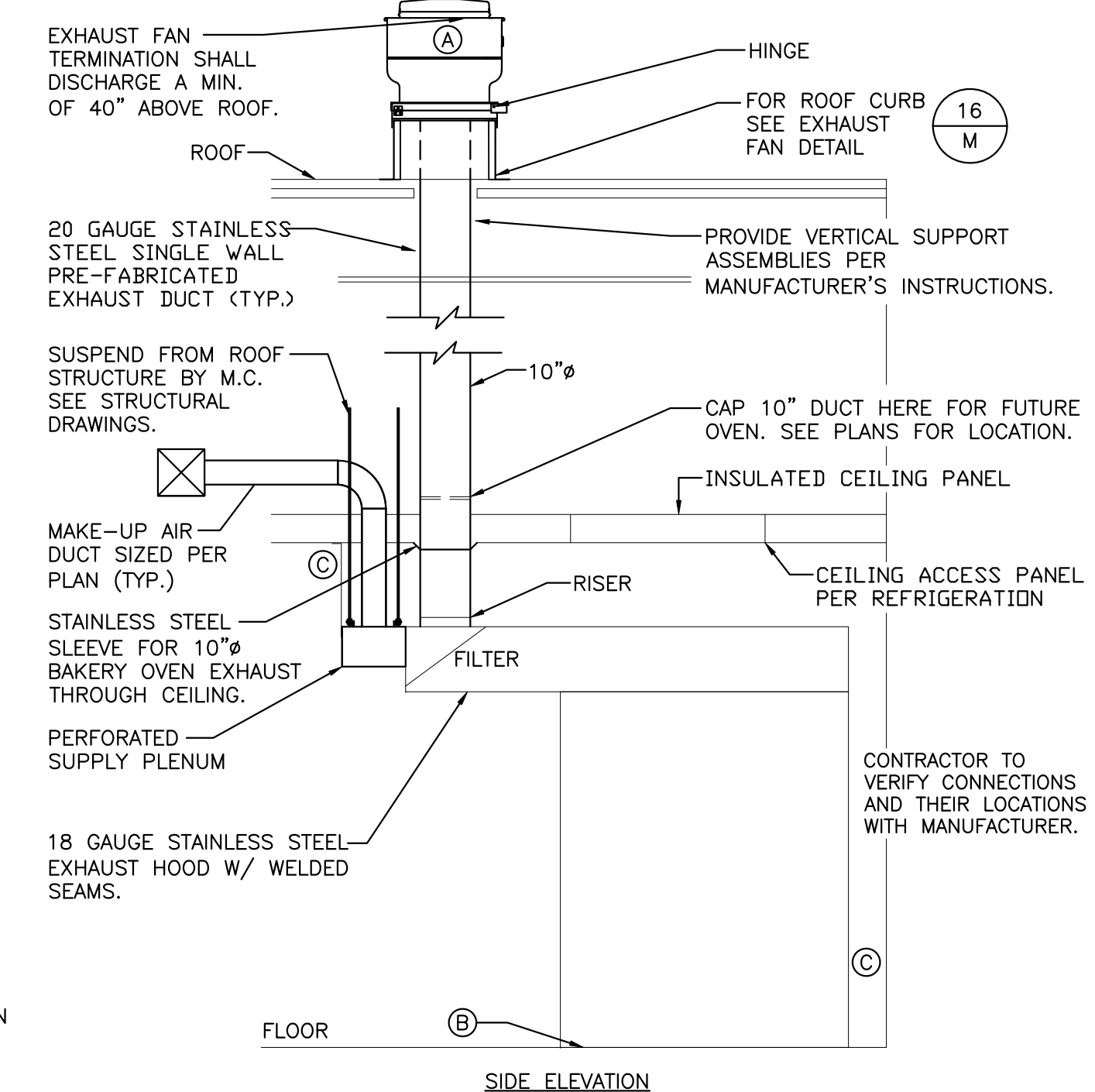
INLINE BAKERY TRANSFER FAN DETAIL
SCALE: NONE REV: JV/08-25/Master

024



DUCT THRU MEAT/DELI CEILING
SCALE: NONE REV: EP/10-24-000

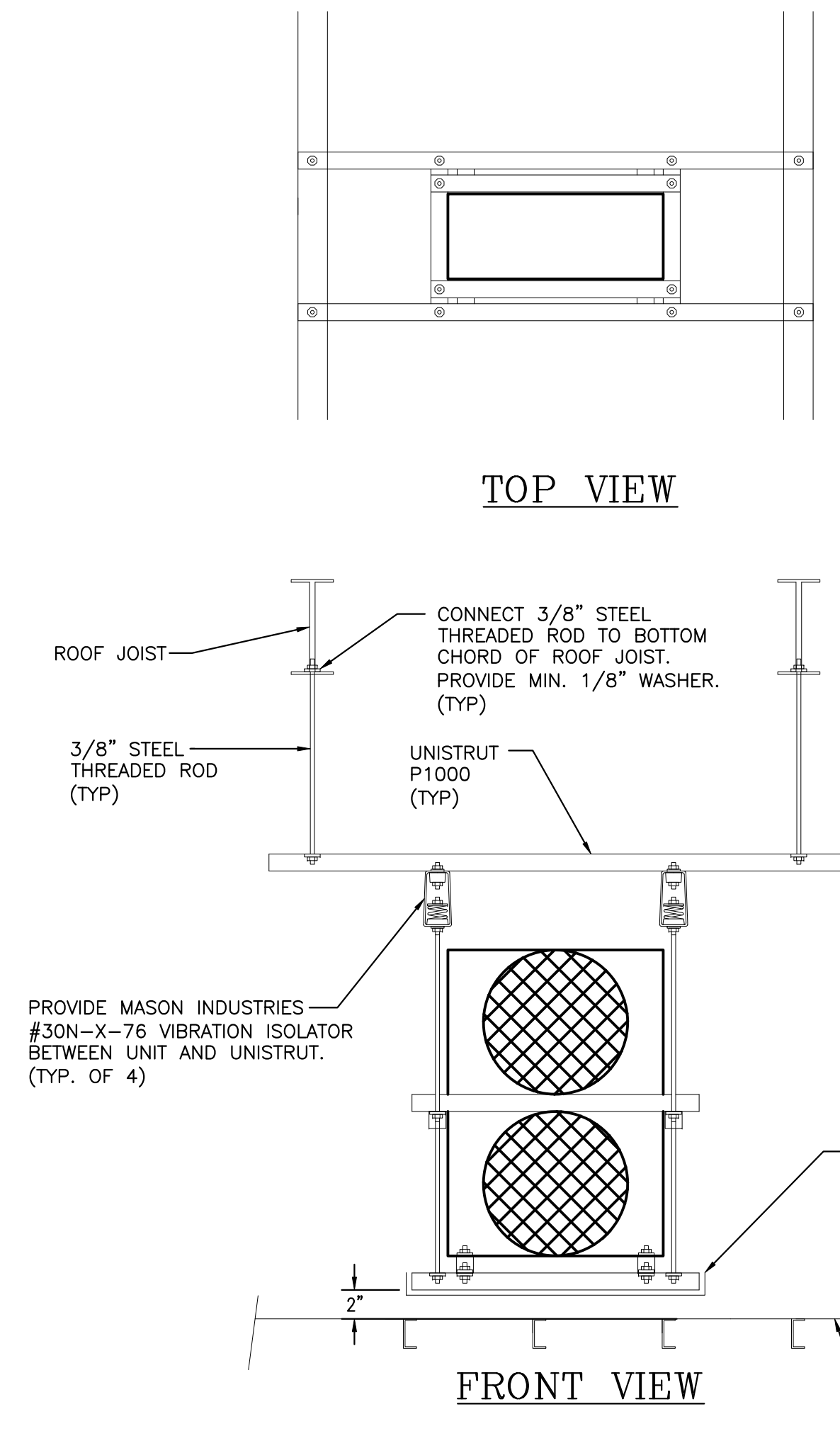
025



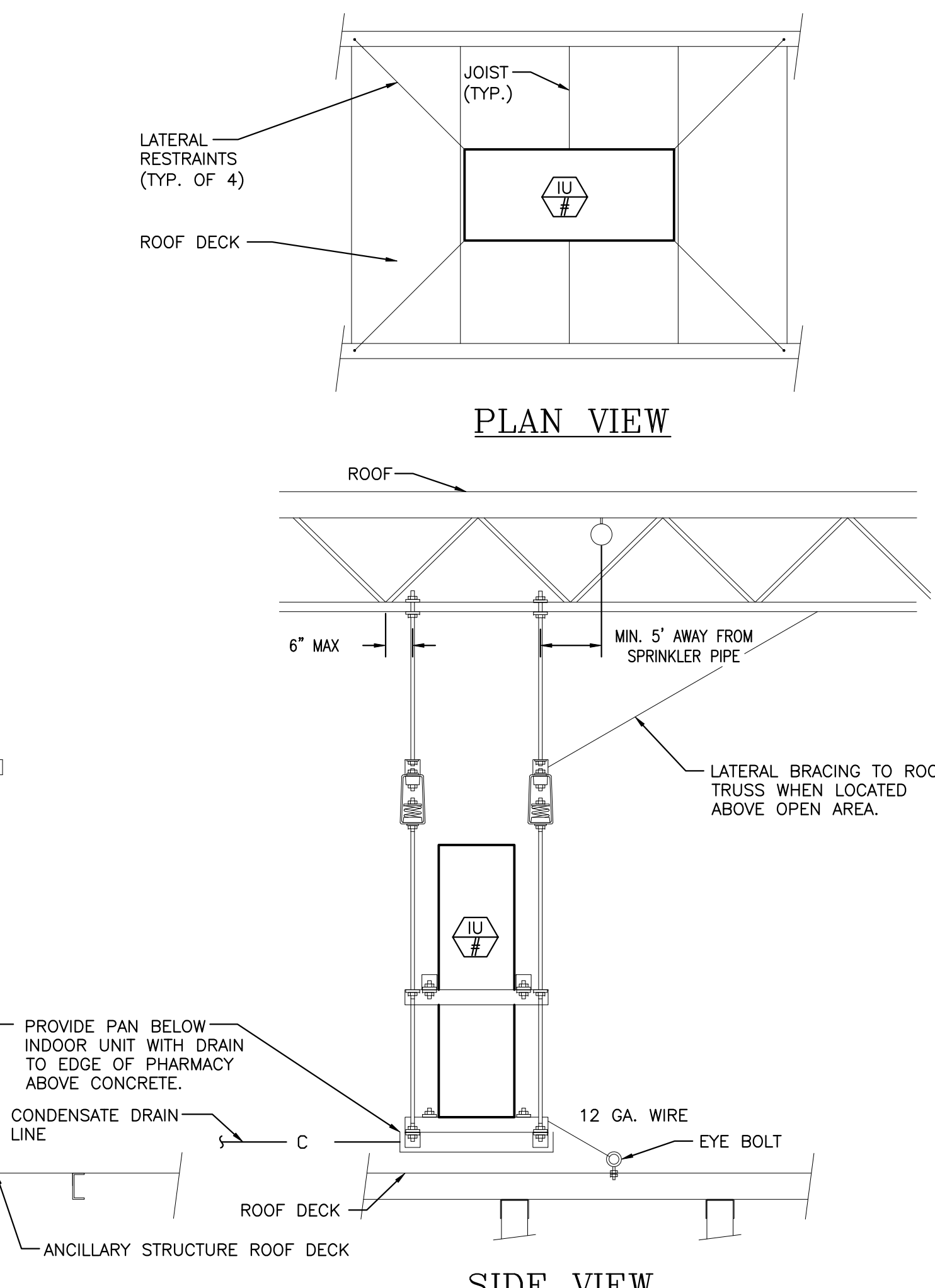
- NOTES:
- ① EXHAUST FAN CONTROLLED BY OVEN.
 - ② PROVIDE 4" STAINLESS STEEL BASE SHOE W/ BEVELED BOTTOM EDGE ALONG THE BOTTOM OF PROOF BOX THAT COMPLIES WITH LOCAL HEALTH CODES.
 - ③ PROVIDE STAINLESS STEEL CLOSURE PANEL AT OVEN SIDE OF PROOF BOX, AT REAR OF PROOF BOX AND PSP TO CEILING.
- NOTES:
- DUCTWORK SHALL RUN STRAIGHT FROM EQUIPMENT TO ARCHITECTURAL FINISH WITH NO OFFSETS. MAKE OFFSETS WITH FITTINGS ABOVE CEILINGS, BEHIND WALLS OR IN ROOF STRUCTURE WITH AS SMALL AN ANGLE OF OFFSET AS POSSIBLE. G.C. TO COORDINATE THE LOCATION OF SPRINKLER HEADS SO THAT THEY ARE NOT IN CONFLICT WITH THE VENT DUCTWORK.
- EXHAUST DUCT TO BE FACTORY BUILT BY CAPTIVEAIRE. SEE SPEC 233800 FOR ORDERING. CONTACT: ATTN: COSTCO PROJECT MANAGER @ (425)212-5996 OR REG85@CAPTIVEAIRE.COM
- DUCT CONNECTION
- "V" CLAMP TO BE PROVIDED BY MFR.
- DUCT FLANGE. SEAL WITH 3M FIRE BARRIER 2000+ HIGH TEMP SILICONE SEALANT.

OVEN DETAIL E-7
SCALE: NONE REV: TS/12-24/24-000

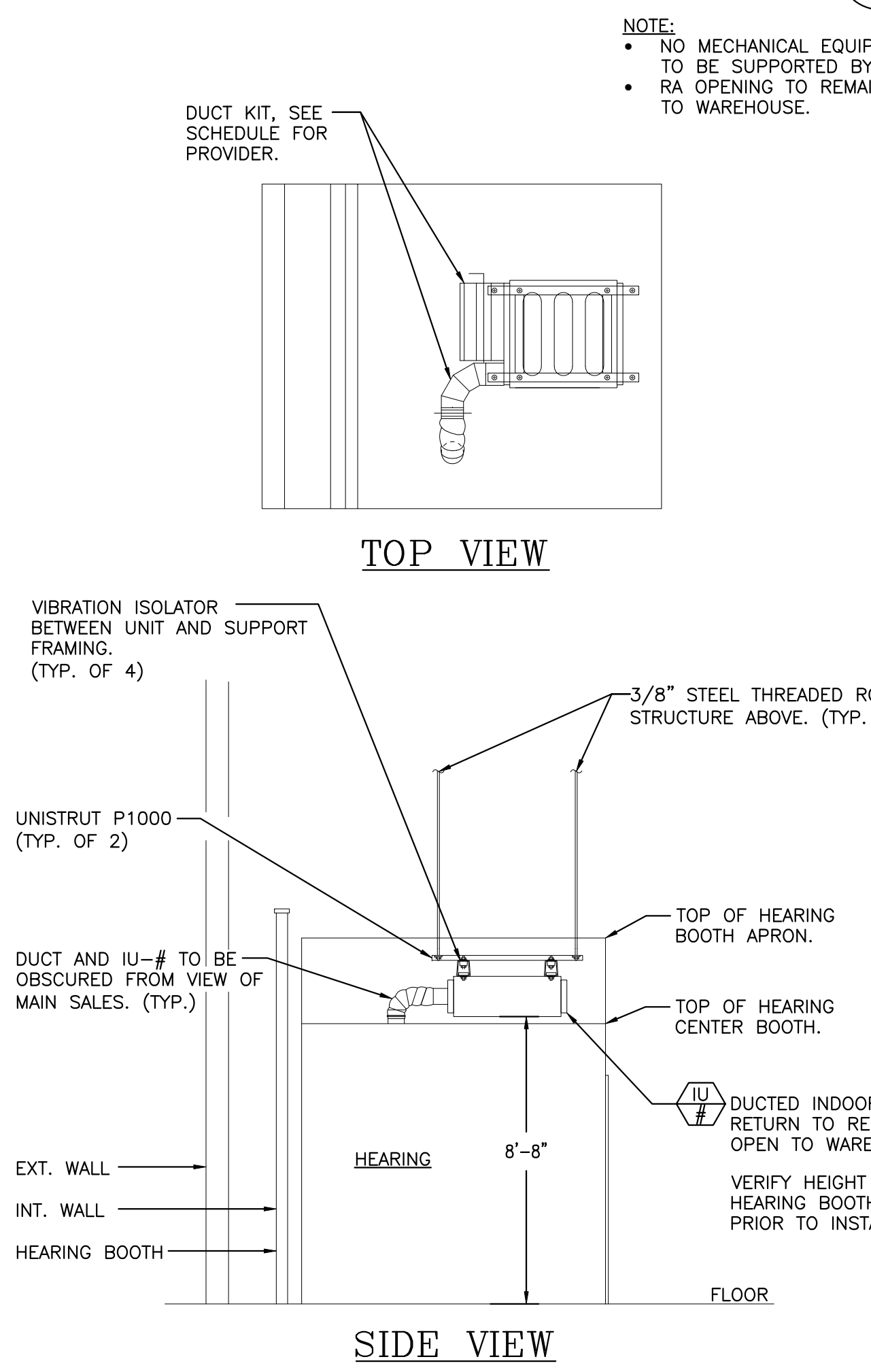
022



CONDENSING UNIT MOUNTING DETAIL
SCALE: NONE REV: SI/11-25/Master

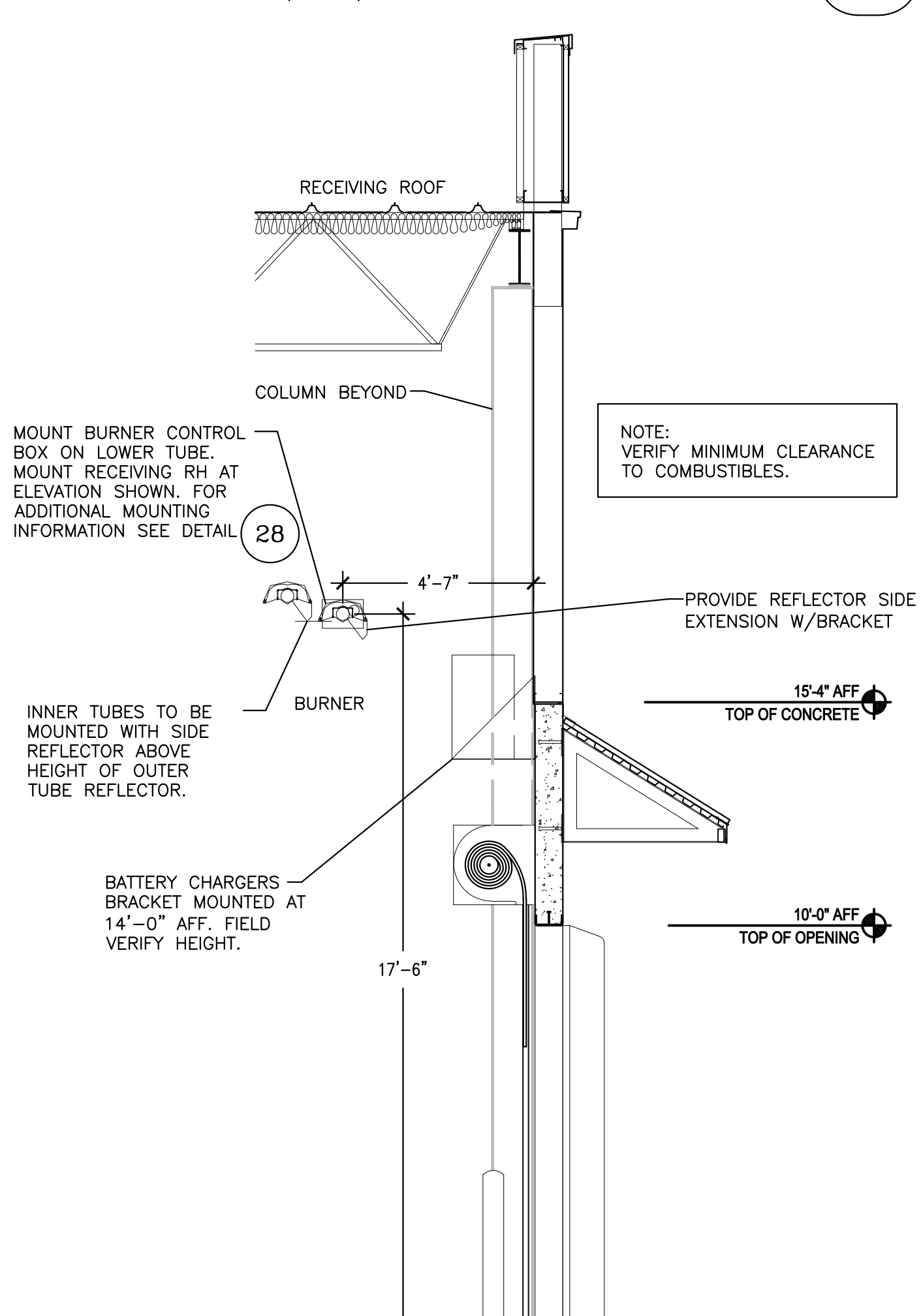


070



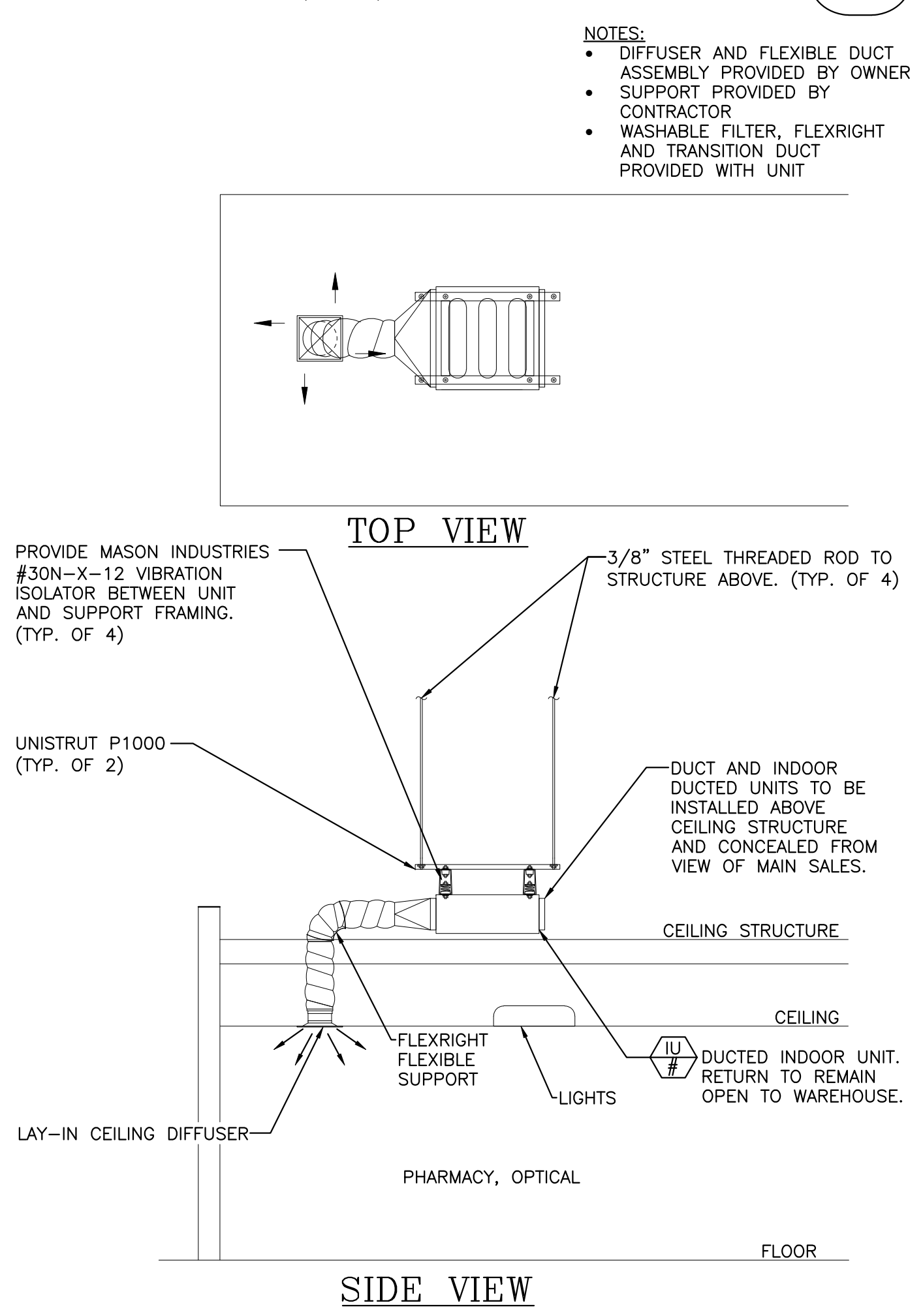
HEARING CENTER DUCT SECTION
SCALE: NONE REV: EP/10-24/24-000

027



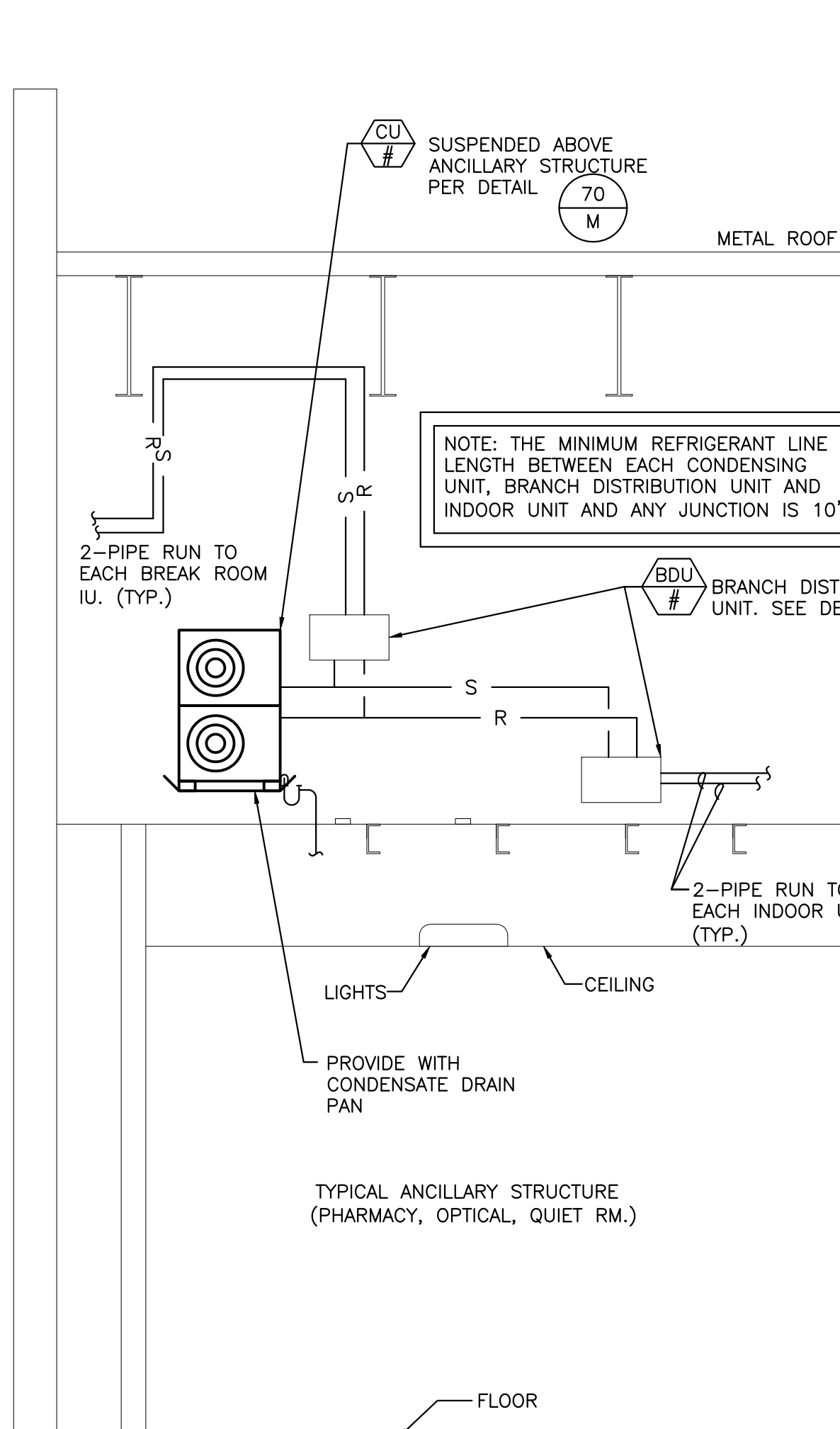
RECEIVING RADIANT HEATER DETAIL
SCALE: NONE REV: JR/06-25/Master

037



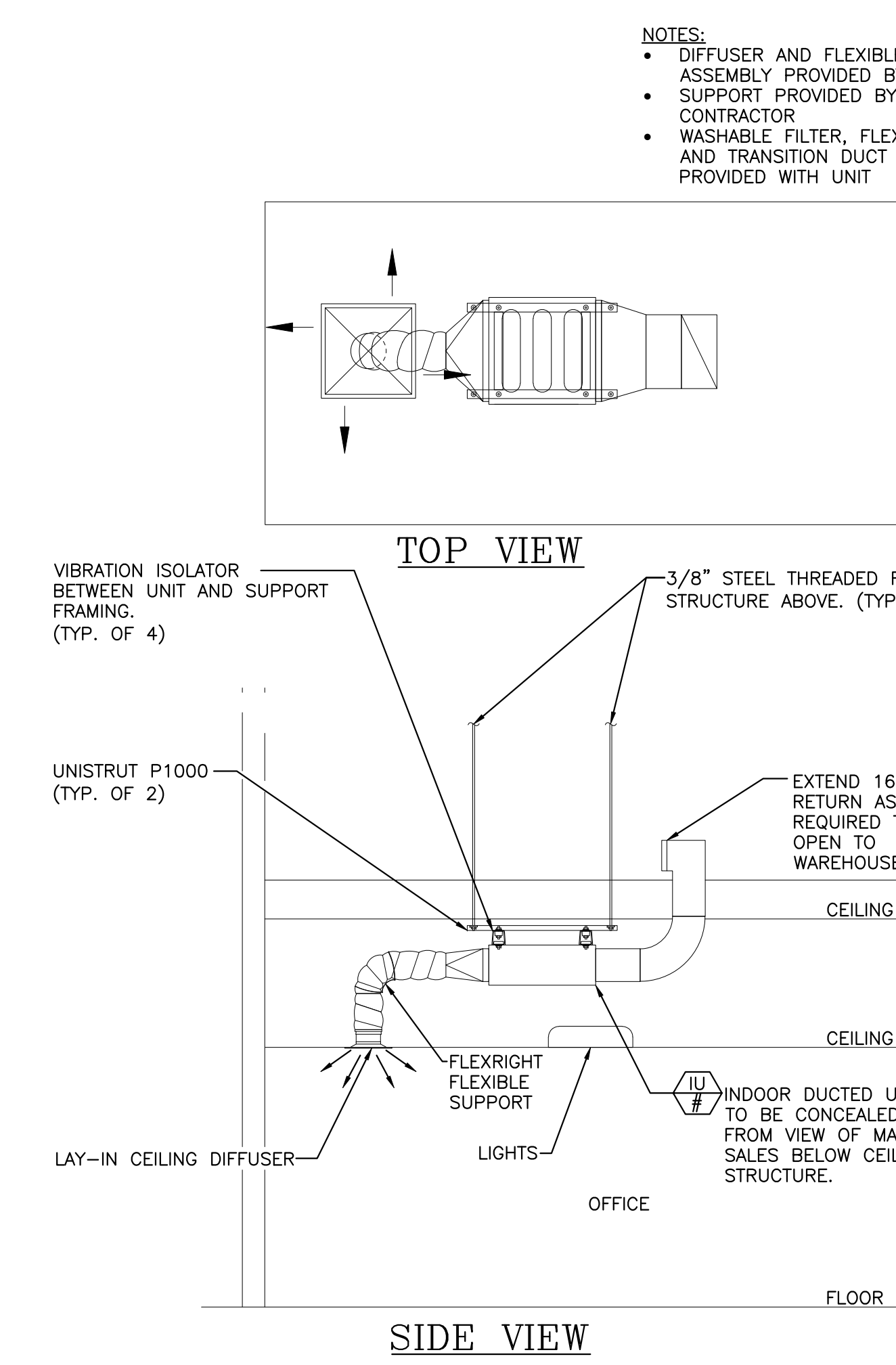
DUCTED UNIT ELEVATION
SCALE: NONE REV: EP/11-24/24-000

082



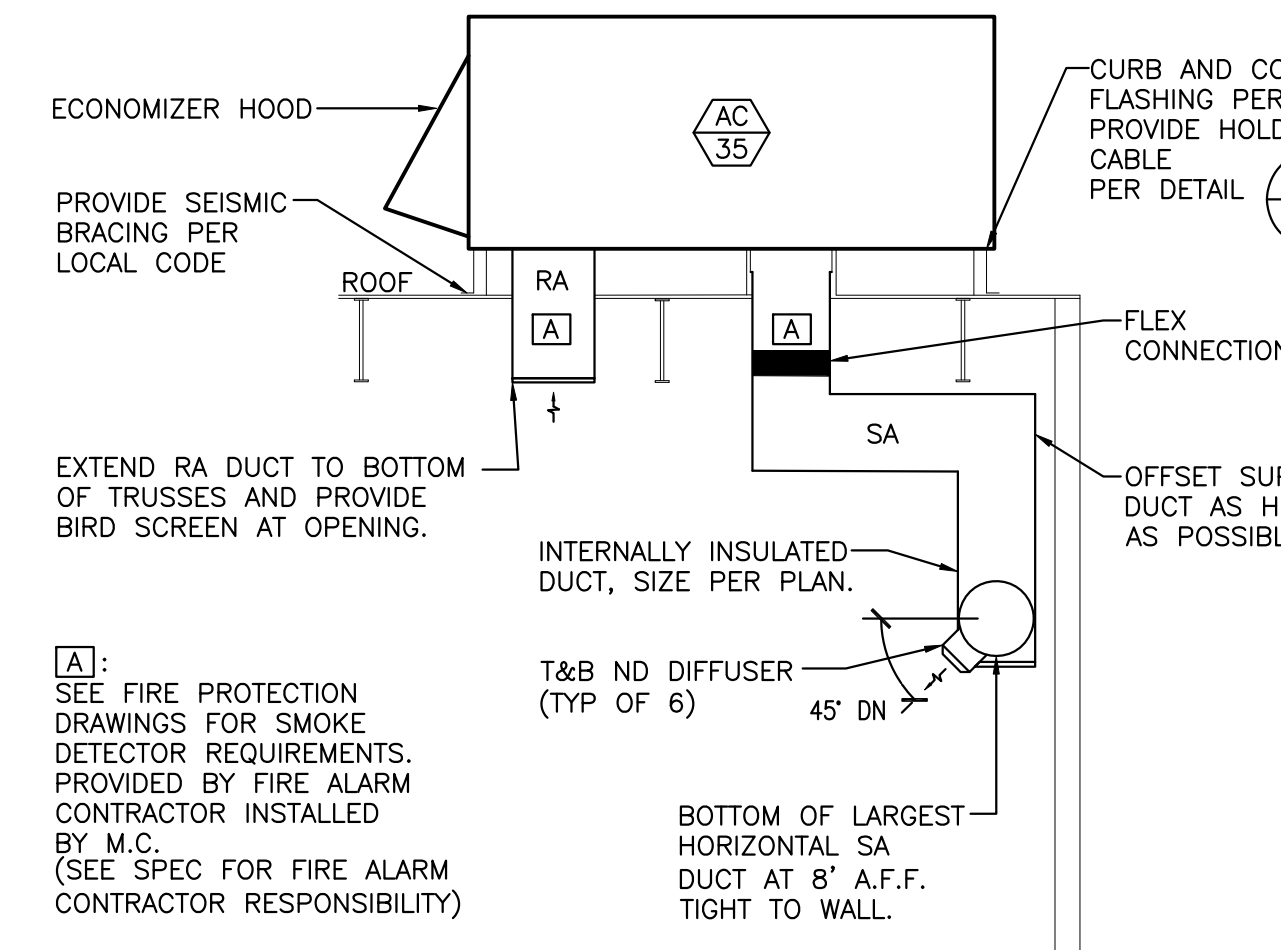
MULTI-SPLIT ELEVATION DIAGRAM
SCALE: NONE REV: EP/11-24/24-000

084



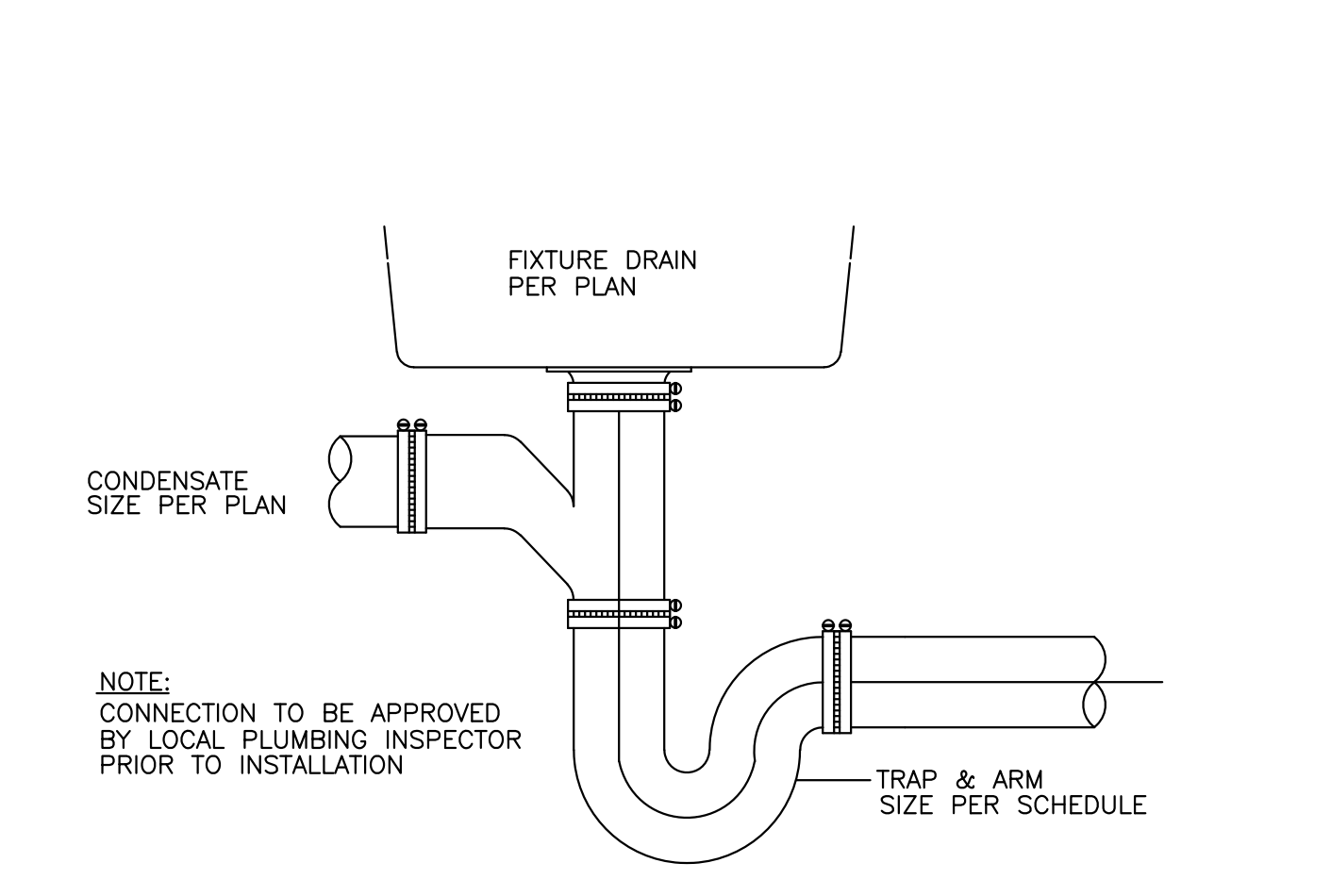
DUCTED (IU-#) MOUNTING DETAIL
SCALE: NONE REV: DS/01-25/Master

085



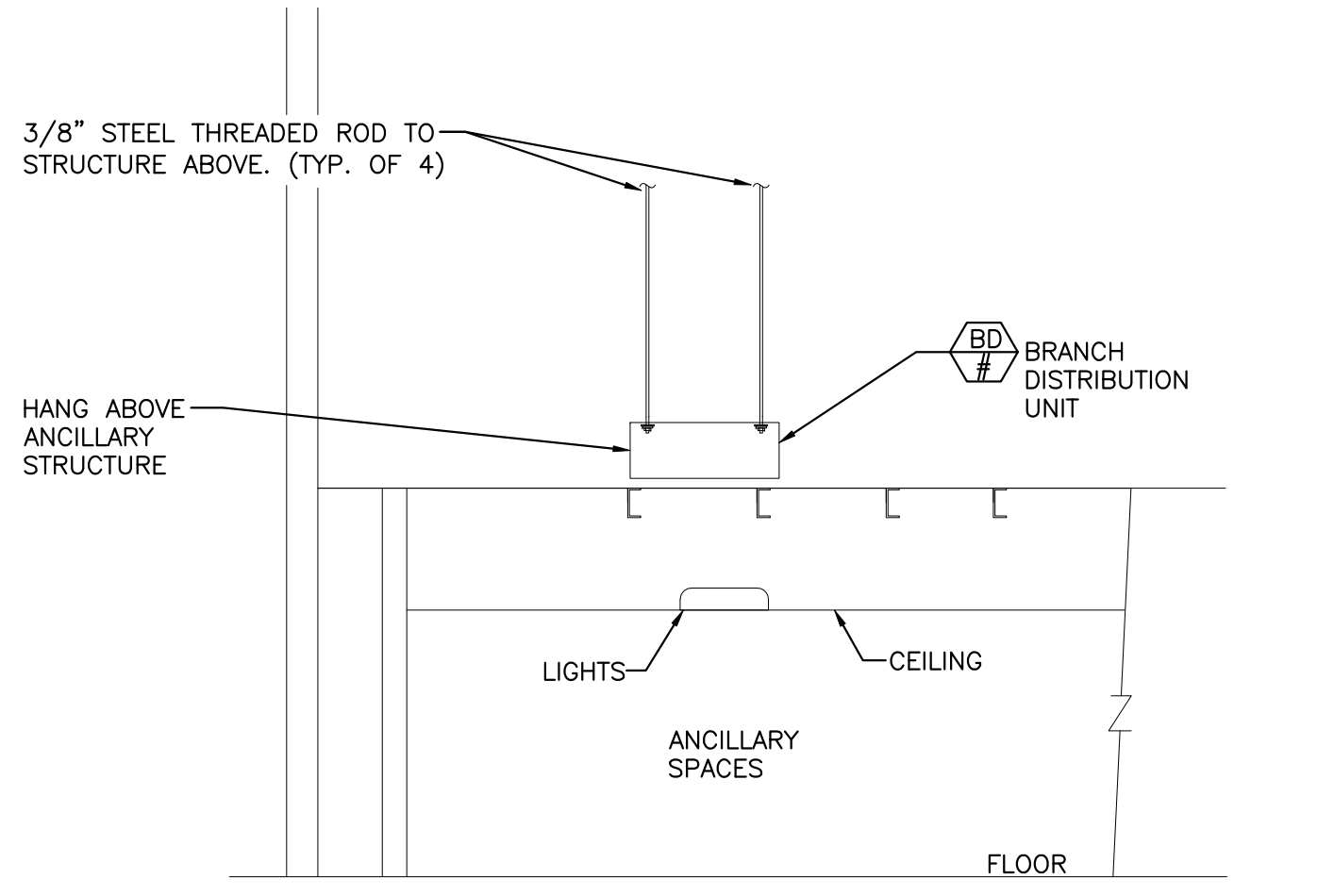
TIRE INSTALL AC ELEVATION
SCALE: NONE REV: SI/12-24/Master

009



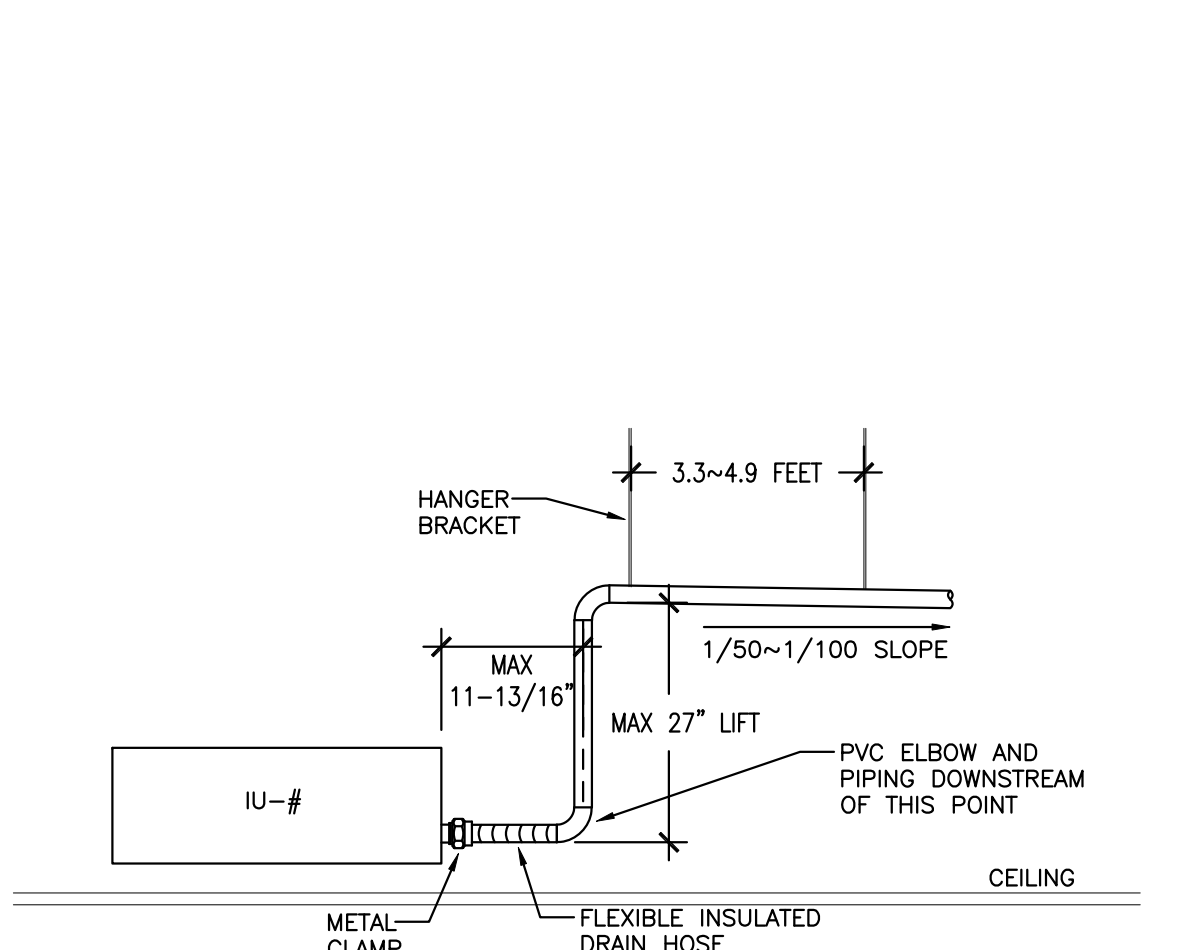
CONDENSATE CONNECTION TO DRAIN
SCALE: NONE REV: SI/12-24/Master

048



BRANCH DISTRIBUTION UNIT
SCALE: NONE REV: EP/11-24/24-000

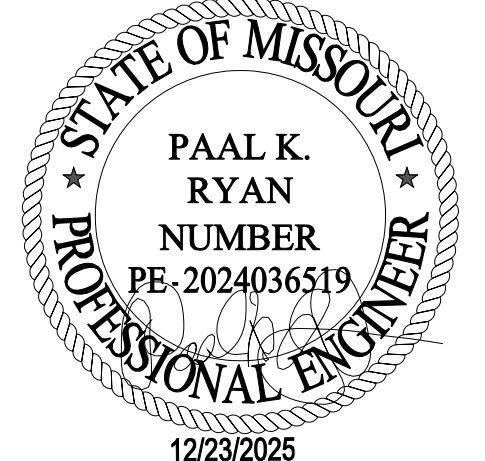
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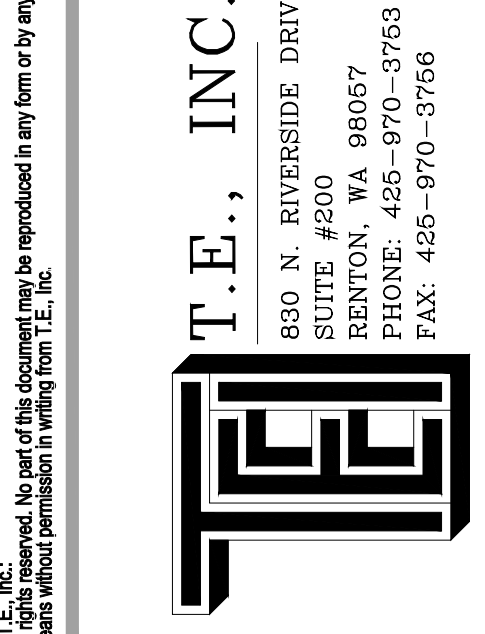
INDOOR UNIT DRAIN DETAIL
SCALE: NONE REV: EP/11-24/24-000

087

ISSUED FOR PERMIT



DATE	DESCRIPTION
11/28/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT



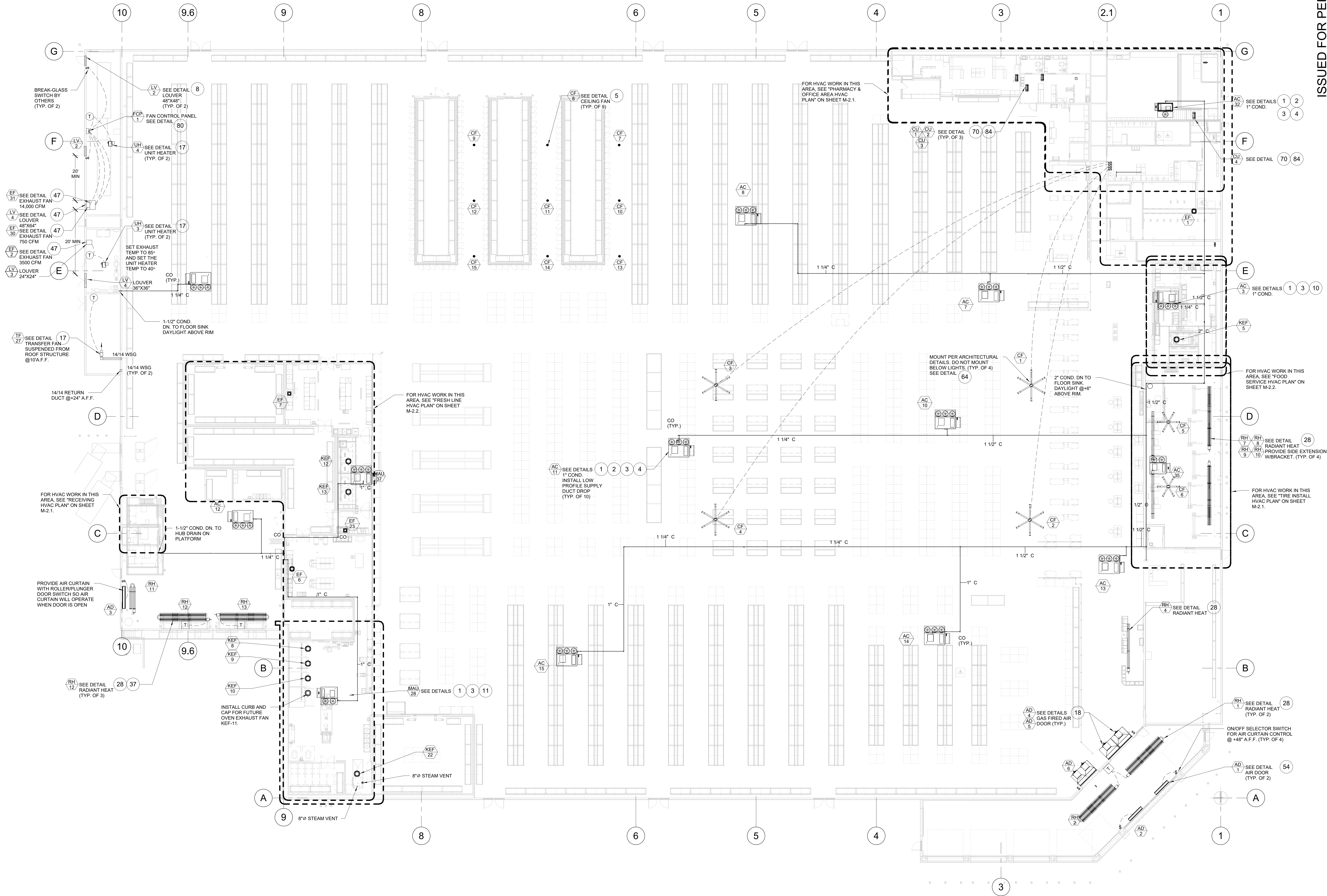
NEW WAREHOUSE
LEES SUMMIT, MO



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

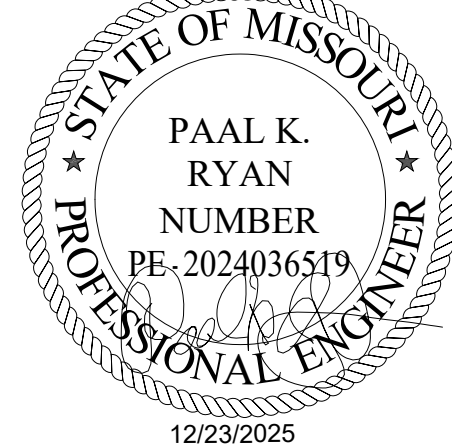
MECHANICAL DETAILS

M-0.4



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

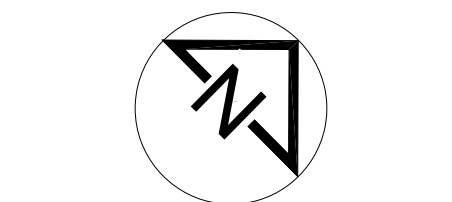
ISSUED FOR PERMIT



DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

T.E., INC.
930 N. RIVERSIDE DRIVE
SUITE #200
LEES SUMMIT, MO 64067
PHONE: 417-970-3753
FAX: 417-970-3756

NEW WAREHOUSE
LEES SUMMIT, MO

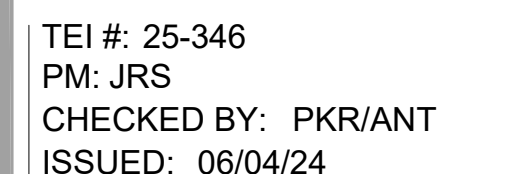


TEI #: 25-346
PM: JAR
CHECKED BY: PKR/ANT
ISSUED: 06/04/24

MAIN MECHANICAL PLAN

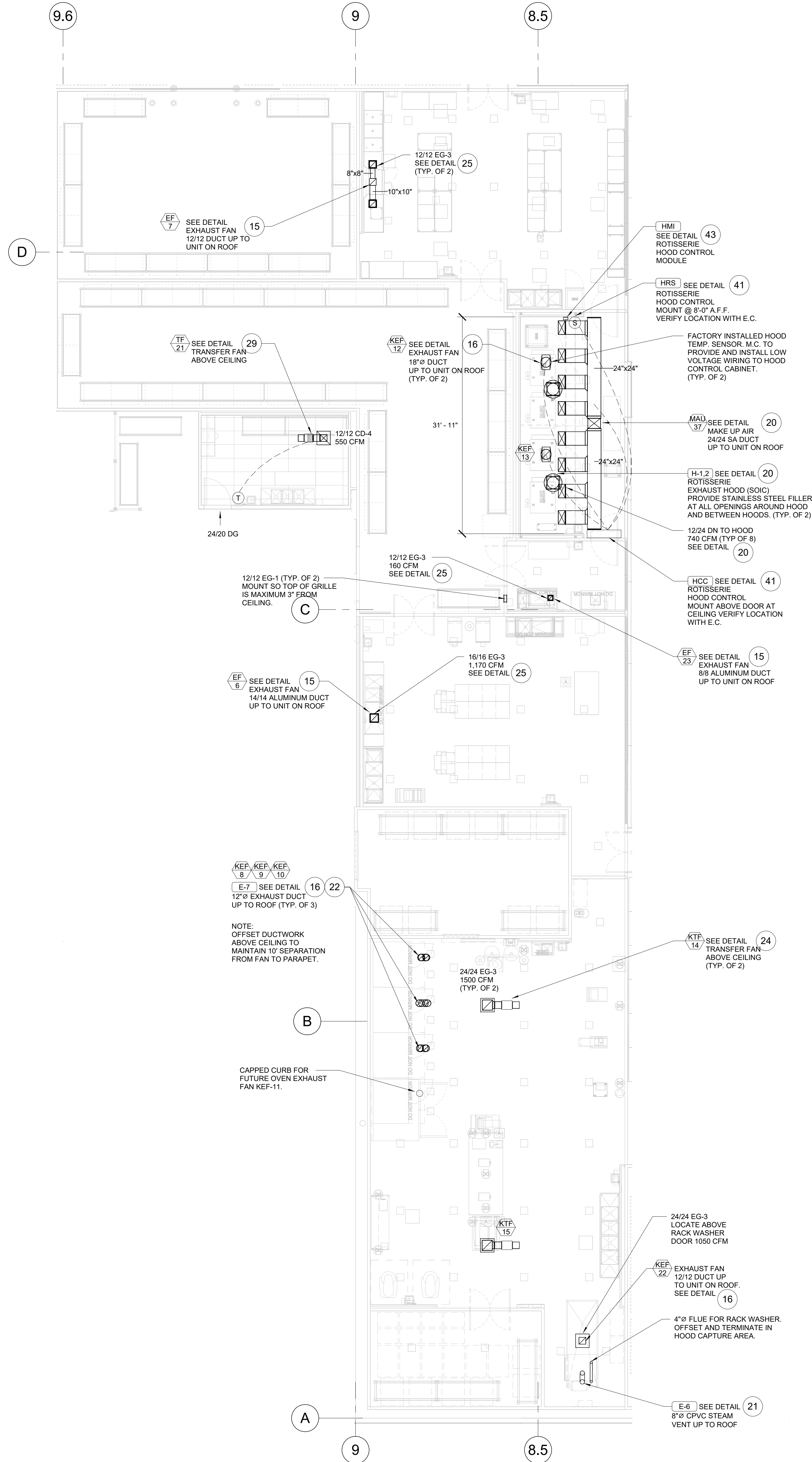
M-1.1

 T.E., INC.
430 N. RIVERSIDE DRIVE
SUITE #200
PEXTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

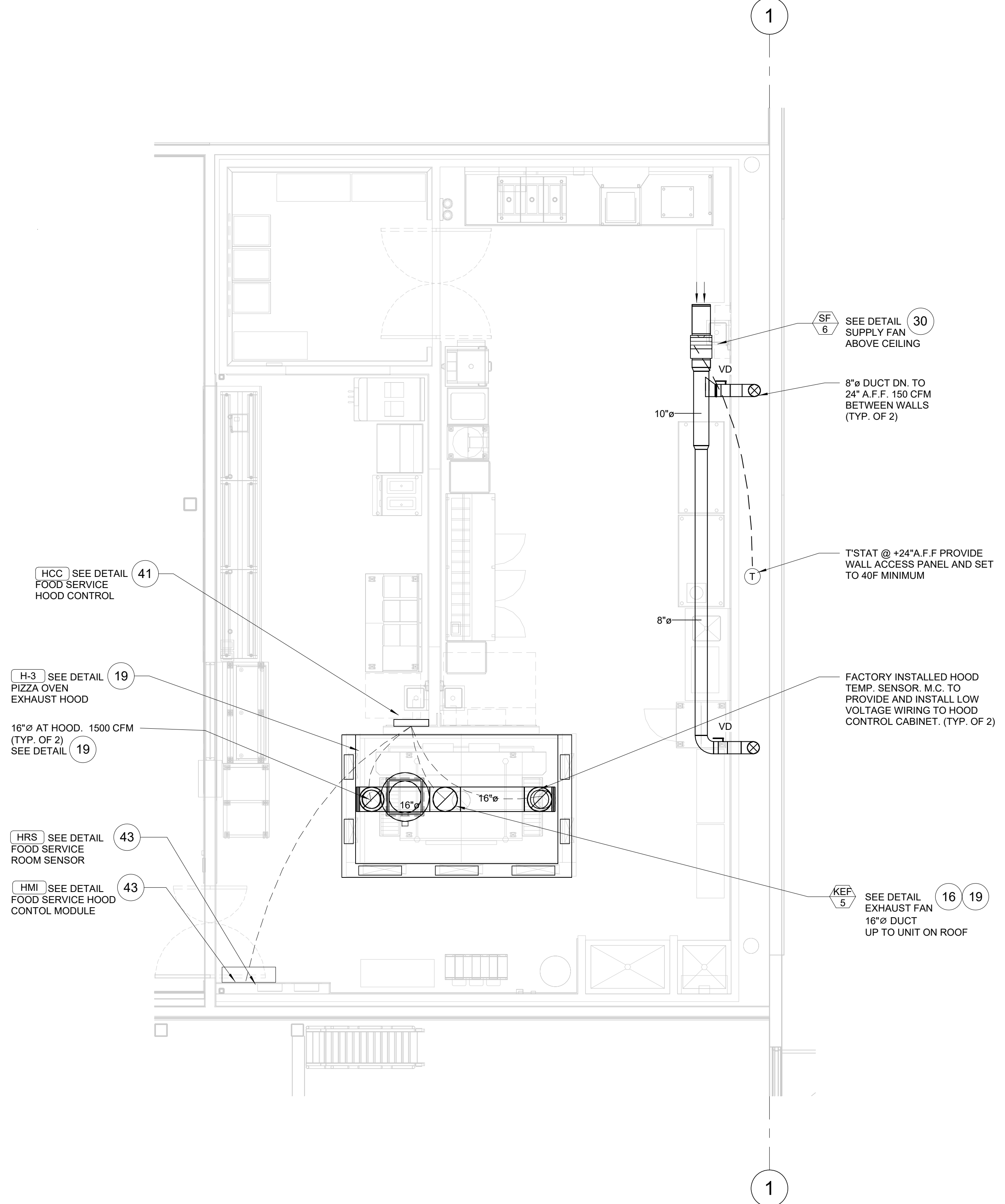


M-2.1

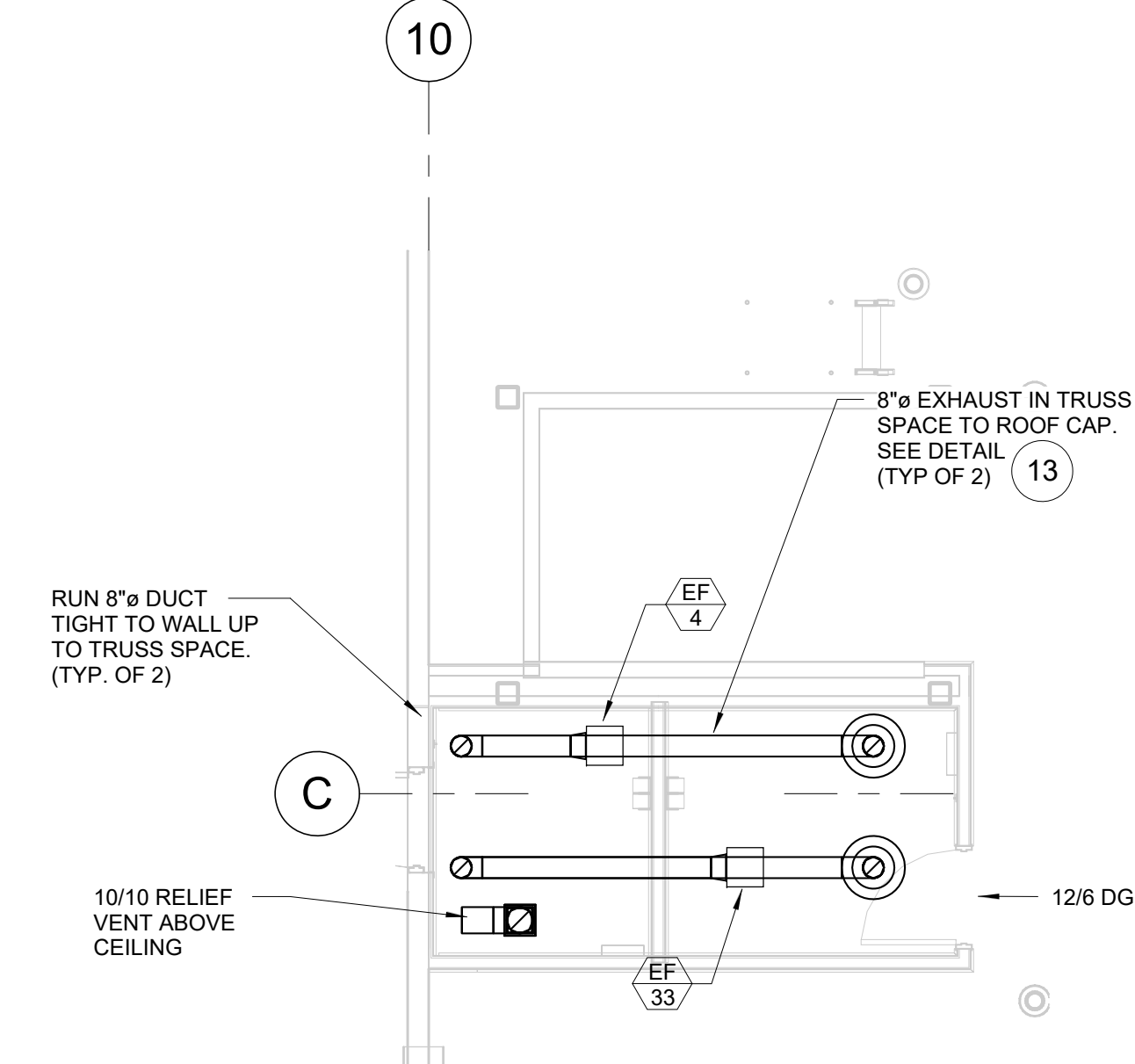




FRESH LINE HVAC PLAN
SCALE: 1/8" = 1'-0"

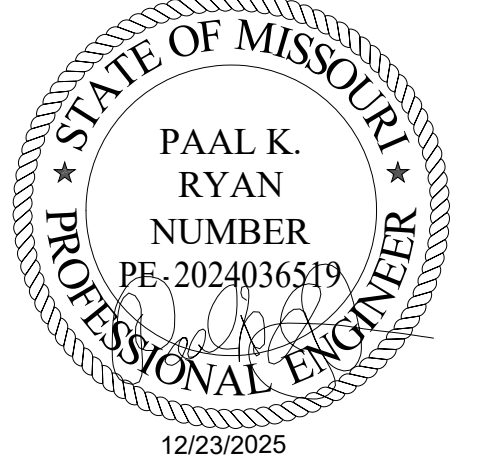


FOOD SERVICE HVAC PLAN
SCALE: 1/4" = 1'-0"



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

ISSUED FOR PERMIT



DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

T.E., INC.
930 N. REVERDE DRIVE
SUITE #200
LEES SUMMIT, MO 64067
PHONE: 417-970-3753
FAX: 417-970-3756

NEW WAREHOUSE
LEES SUMMIT, MO

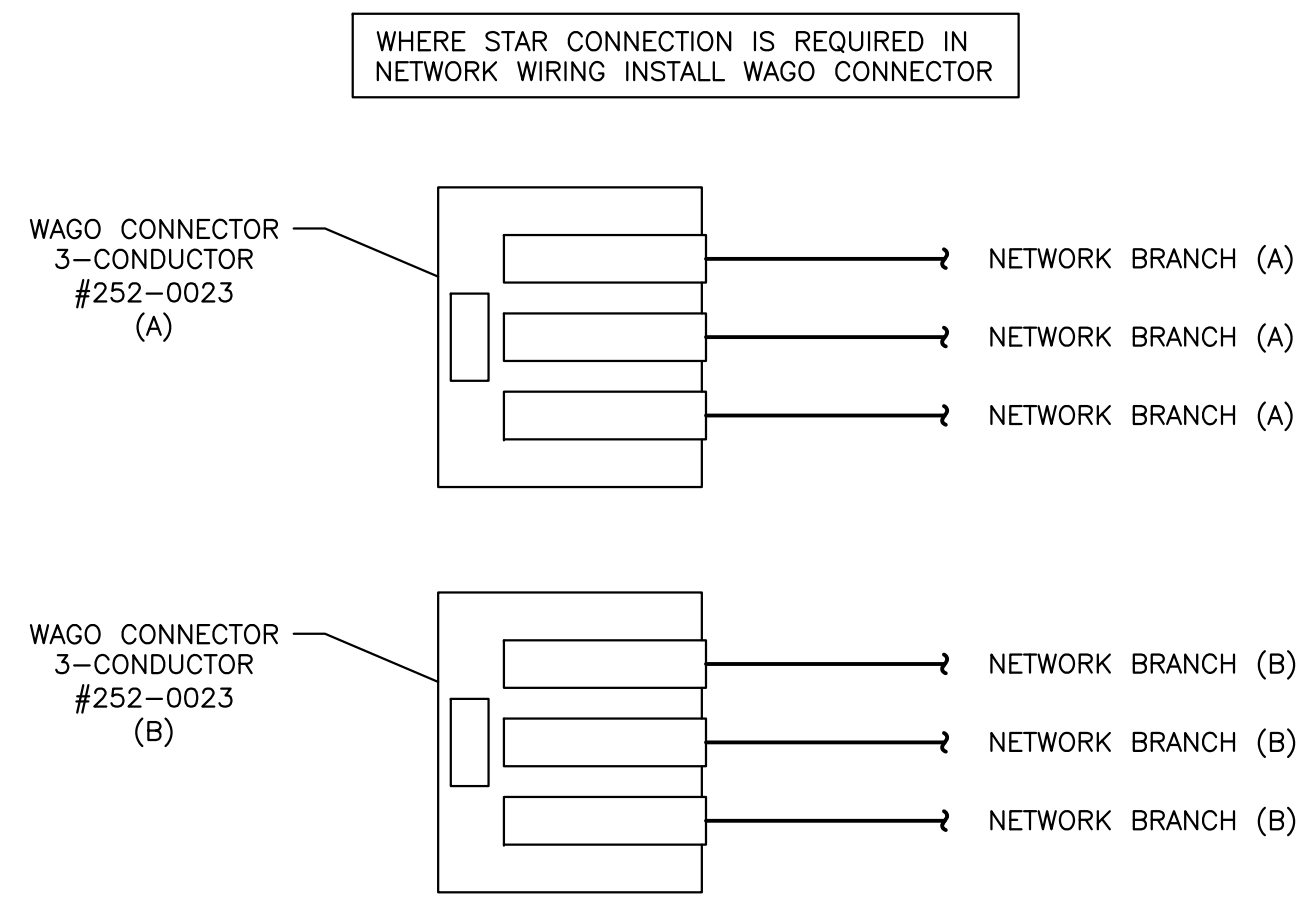
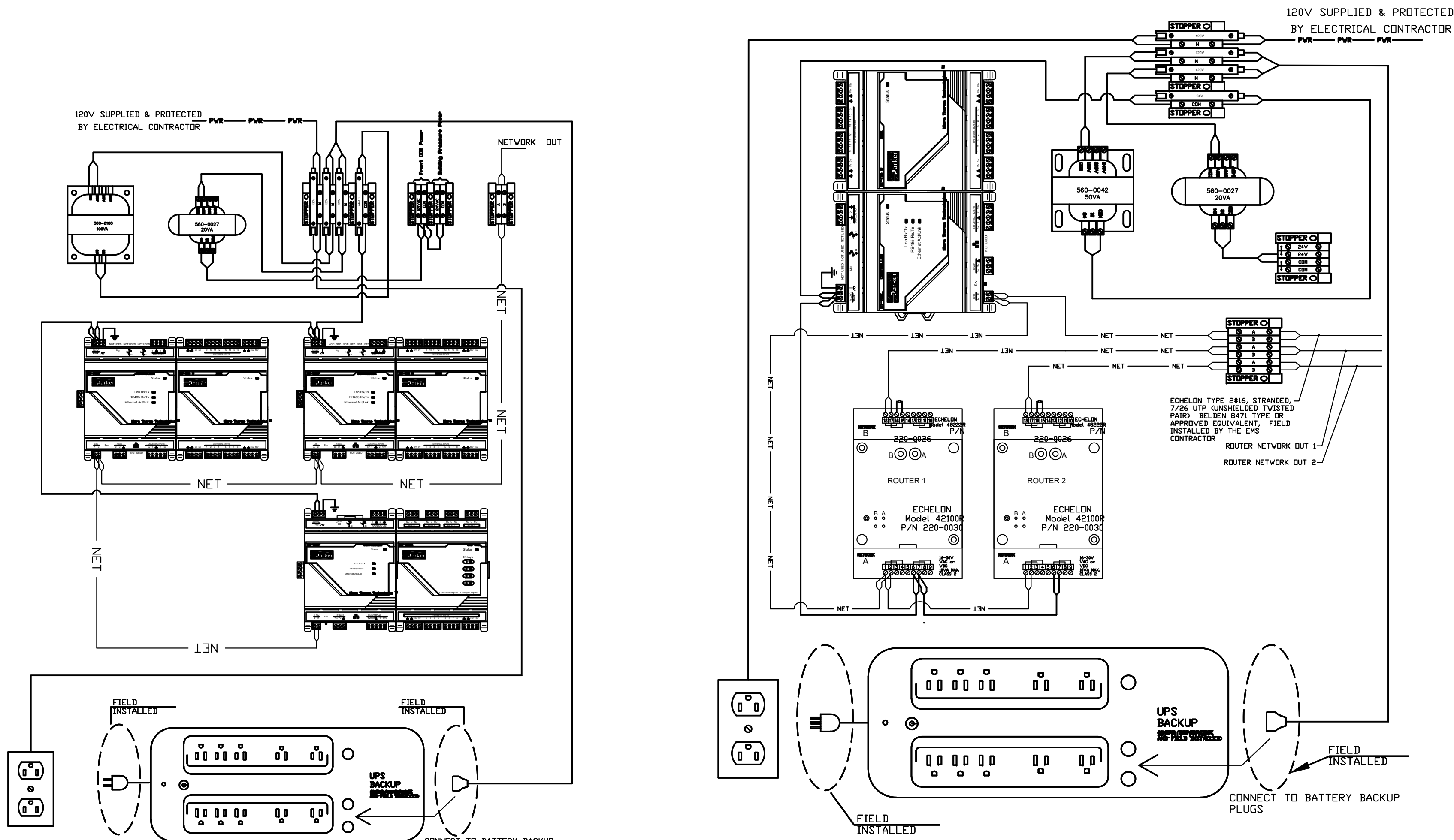
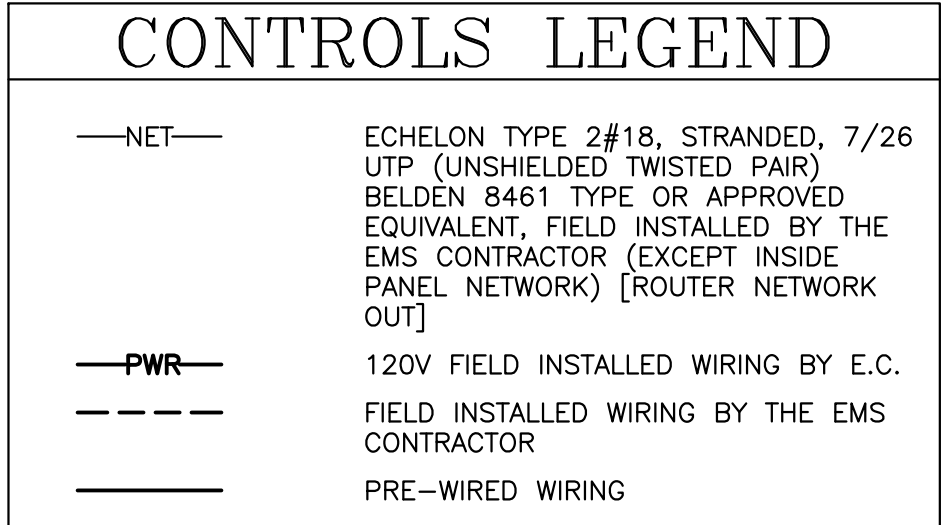


TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 06/04/24

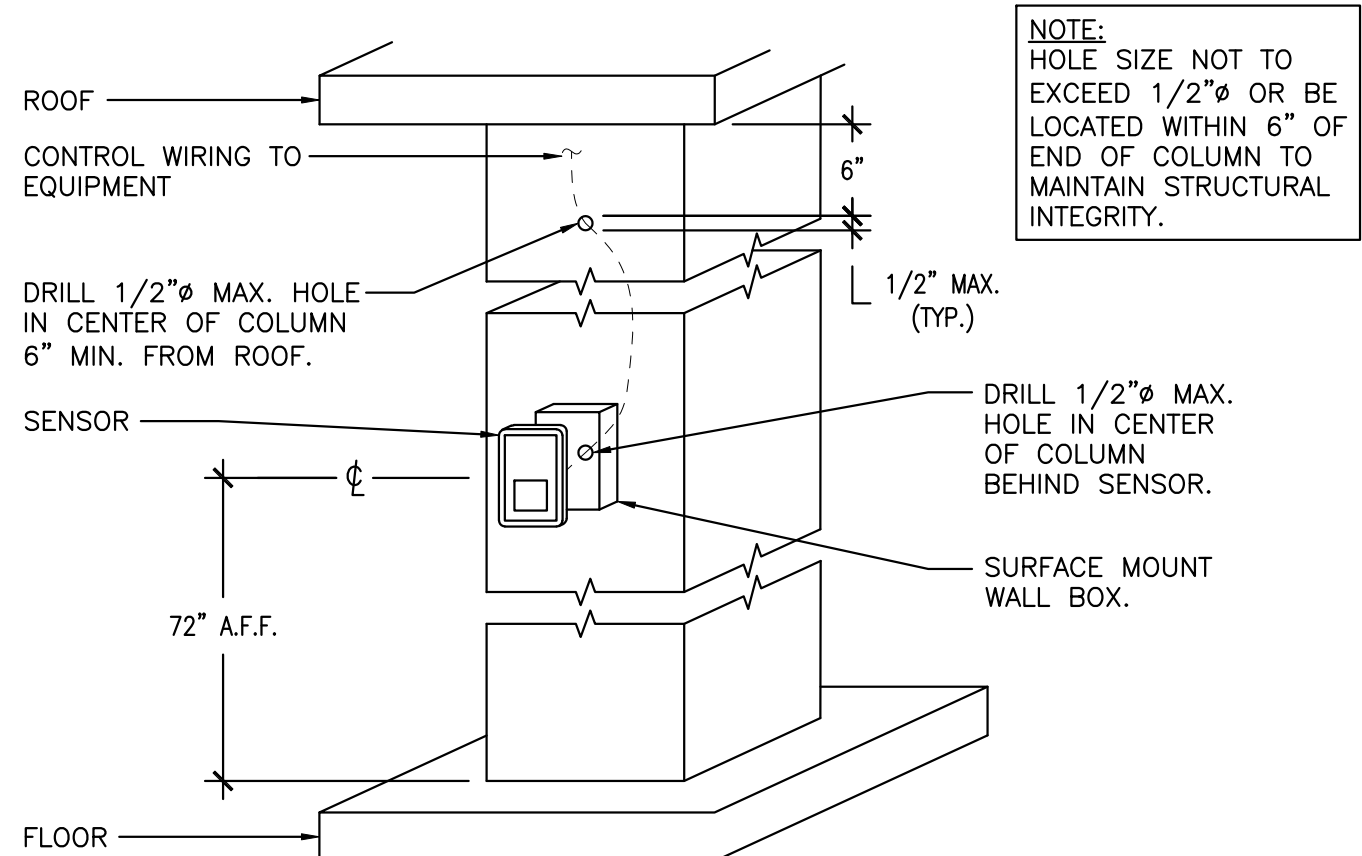
FOOD SERVICE & FRESHLINE
HVAC PLANS

M-2.2

HVAC CONTROLS SCHEDULE-S.O.I.R.C.							
SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE
Ⓢ	ROOM TEMPERATURE SENSOR		MICROTHERMO 023-0327	ROOM TEMPERATURE SENSOR	24V	10#	
ⓈH	ROOM HUMIDITY AND TEMPERATURE SENSOR		MICROTHERMO 023-0026	ROOM HUMIDITY AND TEMPERATURE SENSOR	24V	10#	
ⓈT ⓈH	OUTSIDE HUMIDITY AND TEMPERATURE SENSOR		MICROTHERMO 023-0031	OUTSIDE HUMIDITY AND TEMPERATURE SENSOR	24V	10#	
ⓈAT	SUPPLY AIR TEMPERATURE SENSOR		AAON	SUPPLY AIR TEMPERATURE SENSOR	24V	10#	
ⓈAT	RETURN AIR TEMPERATURE SENSOR		AAON	RETURN AIR TEMPERATURE SENSOR	24V	10#	
ⓈAT	MIXED AIR TEMPERATURE SENSOR		AAON	MIXED AIR TEMPERATURE SENSOR	24V	10#	
ⓈO2	CO2 DETECTOR		MICROTHERMO 023-0475	CO2 DETECTOR	24V	10#	PROVIDE DEDICATED POWER SUPPLY, DO NOT POWER FROM SAME SOURCE AS MT 508 & MT 504
ⓈS ⓈPS	AIR DIFFERENTIAL FLOW SWITCH		AAON	AIR DIFFERENTIAL FLOW SWITCH	24V	10#	
ⓈP-1	FRONT MONITORING PANEL		MICROTHERMO 963-0152	FRONT MONITORING PANEL	120V	50#	
ⓈP-2	HVAC BACK PANEL		MICROTHERMO 963-0153	HVAC BACK PANEL	120V	50#	
ⓈS-1	CABINET WORKSTATION		MICROTHERMO 251-0014	CABINET WORKSTATION DATA LOGGER KVM, KEYBOARD, MOUSE, SPEAKERS	24V	50#	
ⓈB-1	ROUTER BASE		MICROTHERMO 220-0026	ROUTER BASE	24V	10#	
ⓈN-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#	
ⓈT-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.
ⓈPT-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
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.							



WAGO CONNECTOR DETAIL
SCALE: NONE REV: EP/10-24/24-000

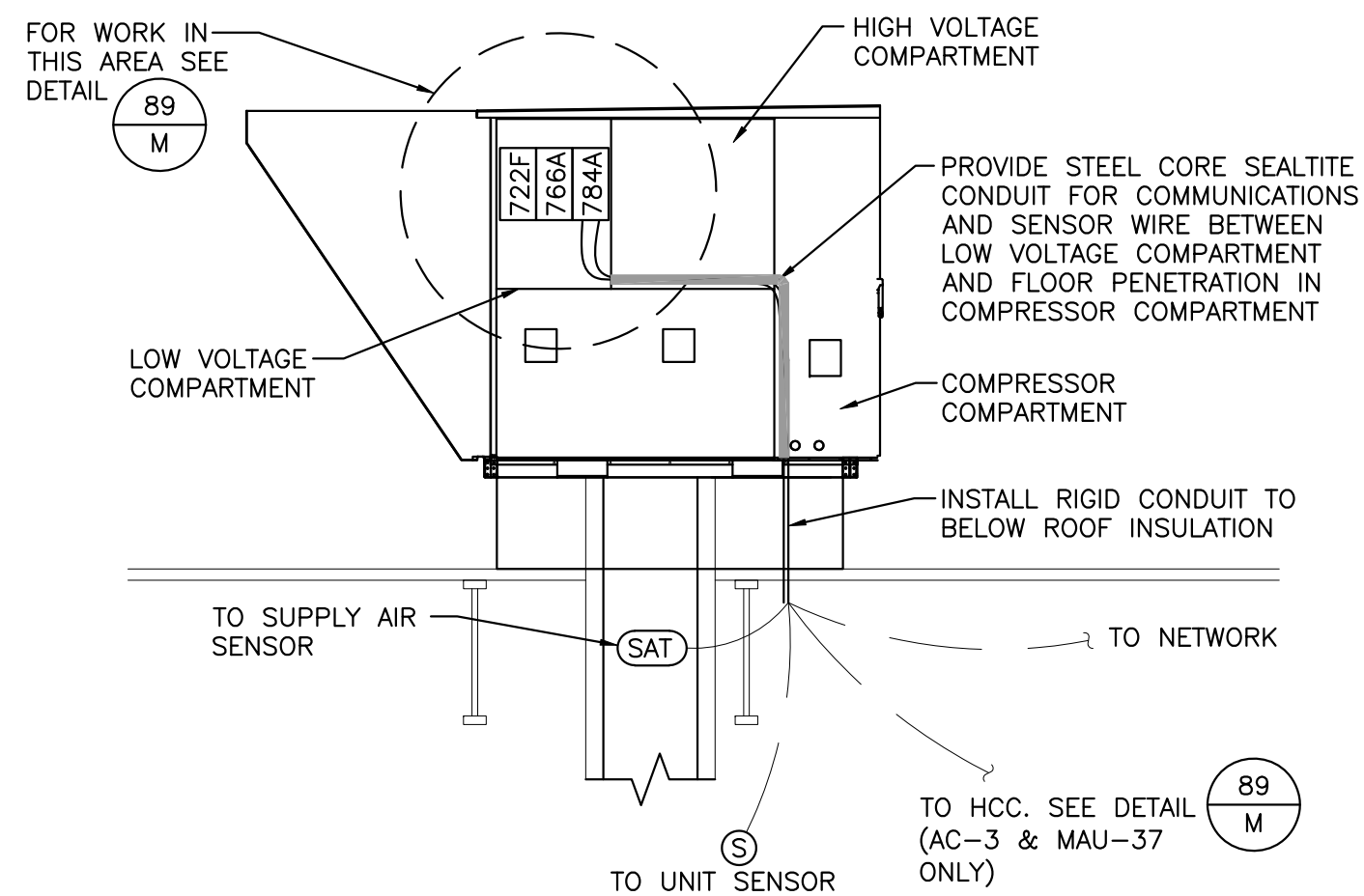


CEILING CASSETTE (IU-#) DETAIL
SCALE: NONE REV: EP/11-24/24-000

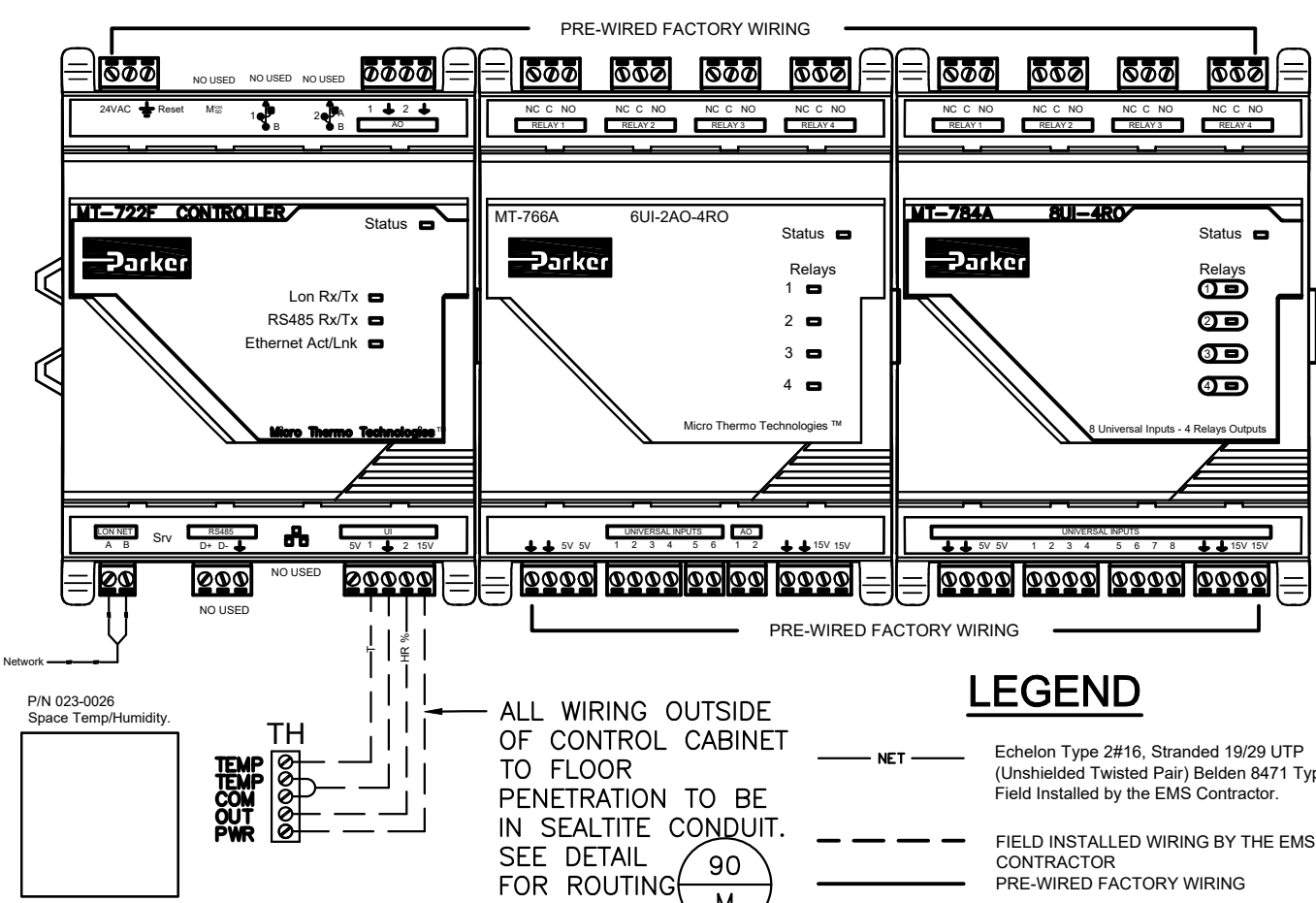
CONTROL SEQUENCE			
CIRCUIT	FOOD SERVICE	ROTISSERIE	
SFC1/SF01	OPEN TO DAMPER TO 40%	ENABLE UNIT	
V1+V1-	N/A	SUPPLY FAN SPEED	

HCC	
CONTROL PANEL	COMMON NORMALLY OPEN
DRY CONTACT	
DN/OFF WITH SUPPLY FAN GROUP 1	SPARE CONTACTS WILL MAKE COMMON TO NORMALLY OPEN WHEN SUPPLY FAN IS ON
DCV SPEED	
0-10V OUTPUT	
DN PCB	

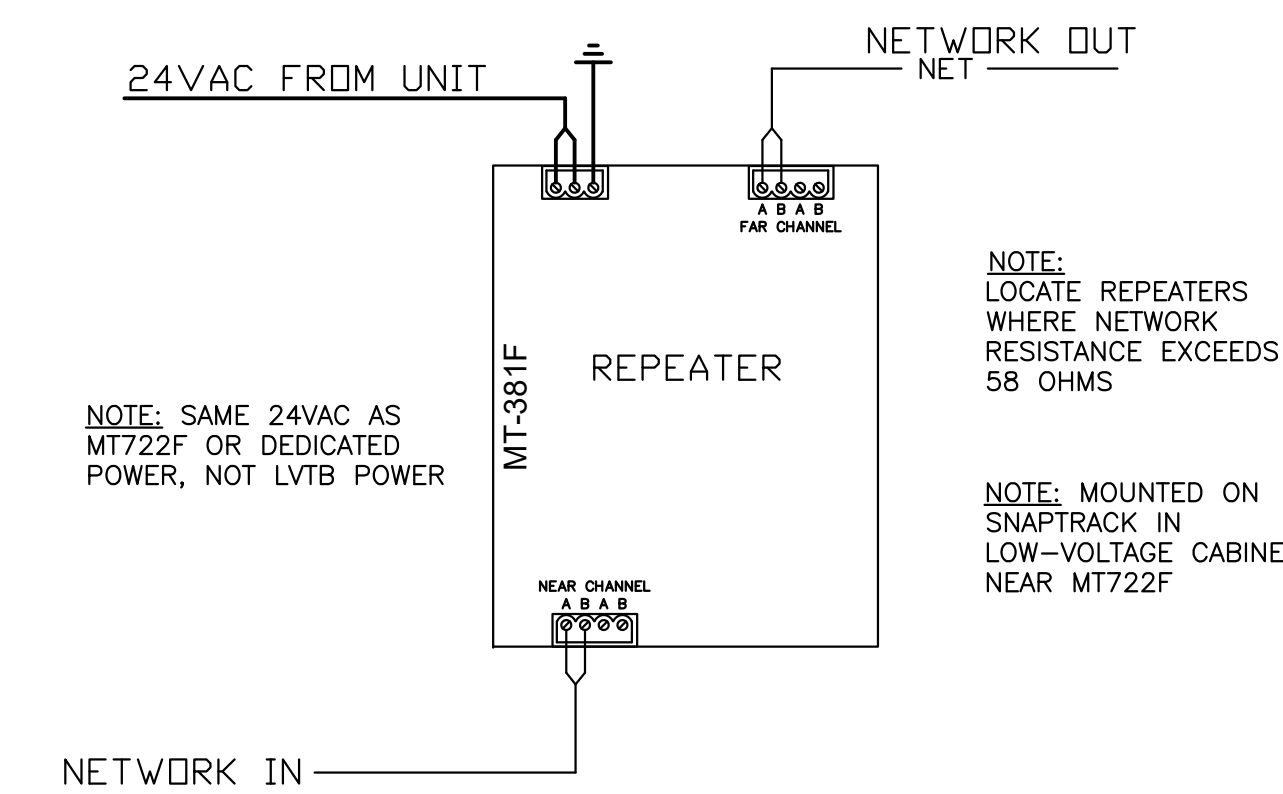
HCC WIRING DIAGRAM



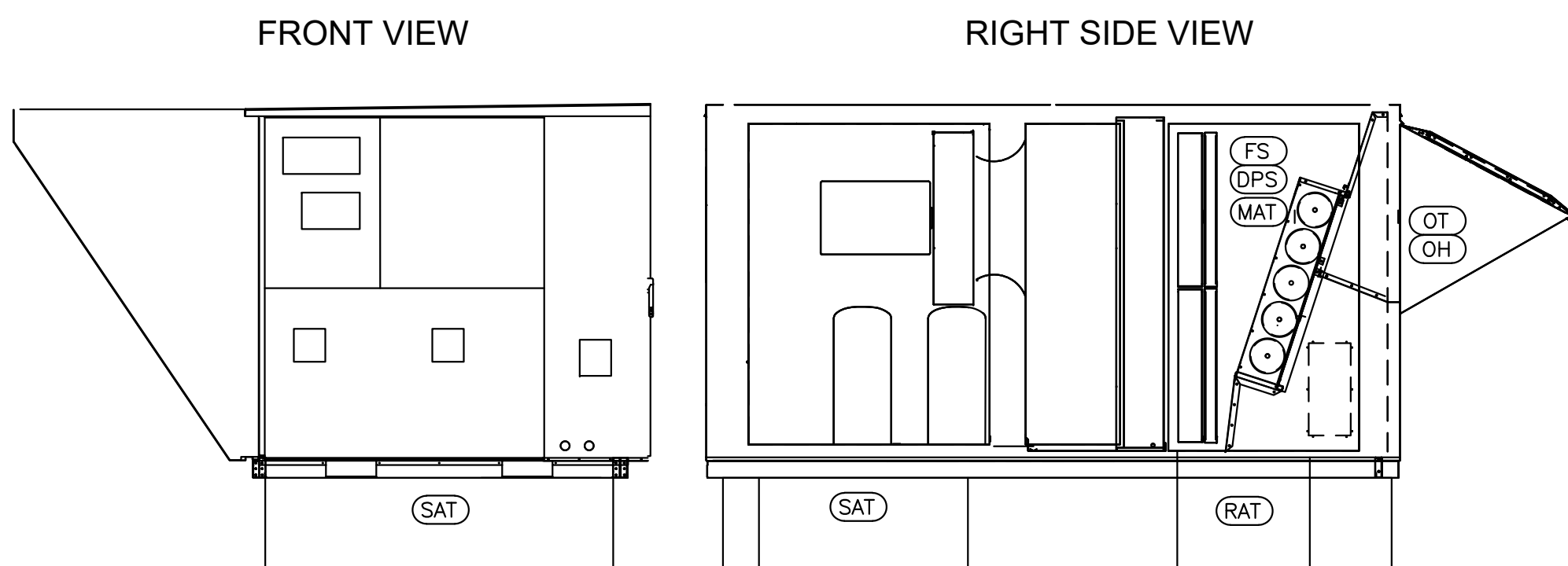
RTU FIELD WIRING DIAGRAM
SCALE: NONE REV: SA/04-25/Master



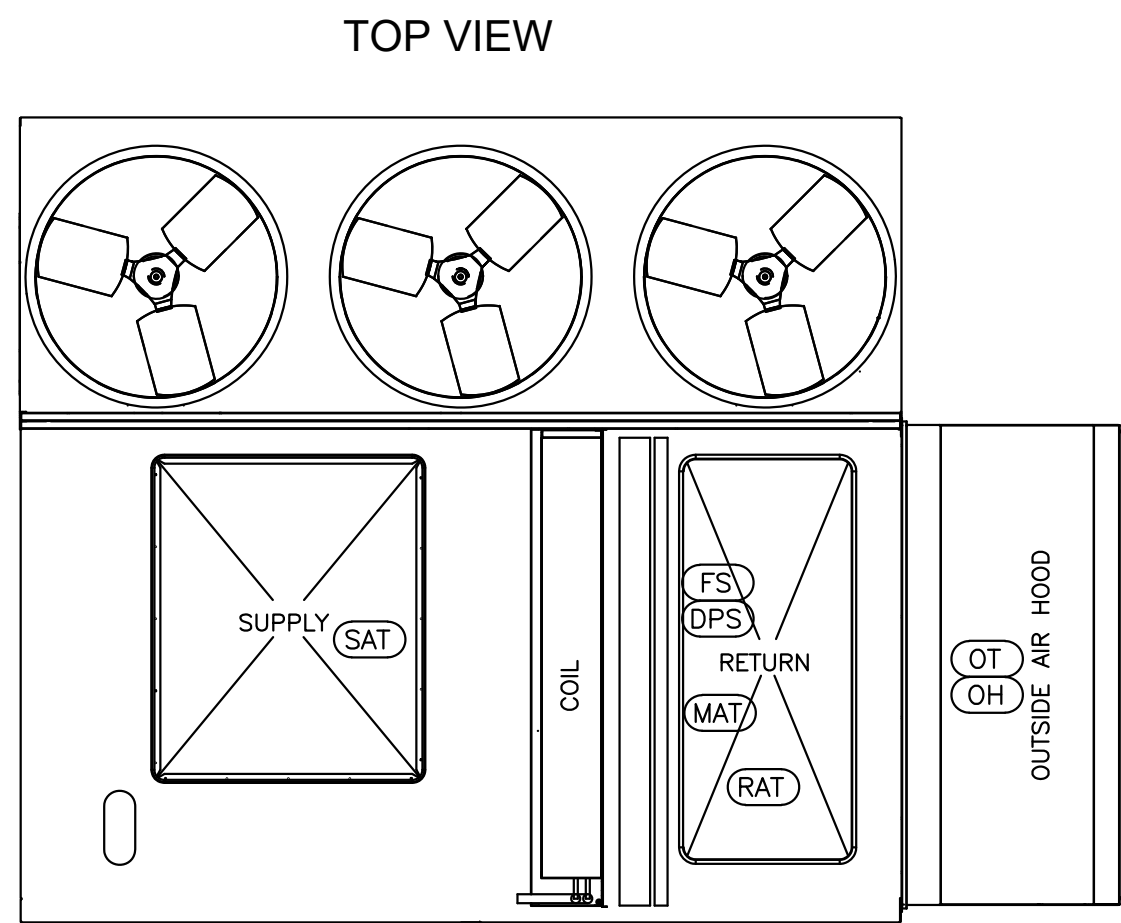
USER INTERFACE DETAIL
SCALE: NONE REV: EP/11-24/24-000



REPEATER DETAIL
SCALE: NONE REV: SA/04-25/Master

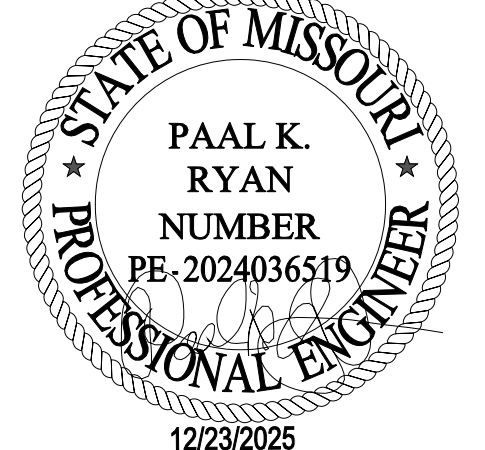


AC SENSOR DETAIL
SCALE: NONE REV: TS/12-24/Master



104

ISSUED FOR PERMIT



DATE	DESCRIPTION
11/28/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

T.E., INC.
930 N. RIVERSIDE DRIVE
SUITE #200
LEES SUMMIT, MO 64067
PHONE: 485-970-5763
FAX: 485-970-5766

NEW WAREHOUSE

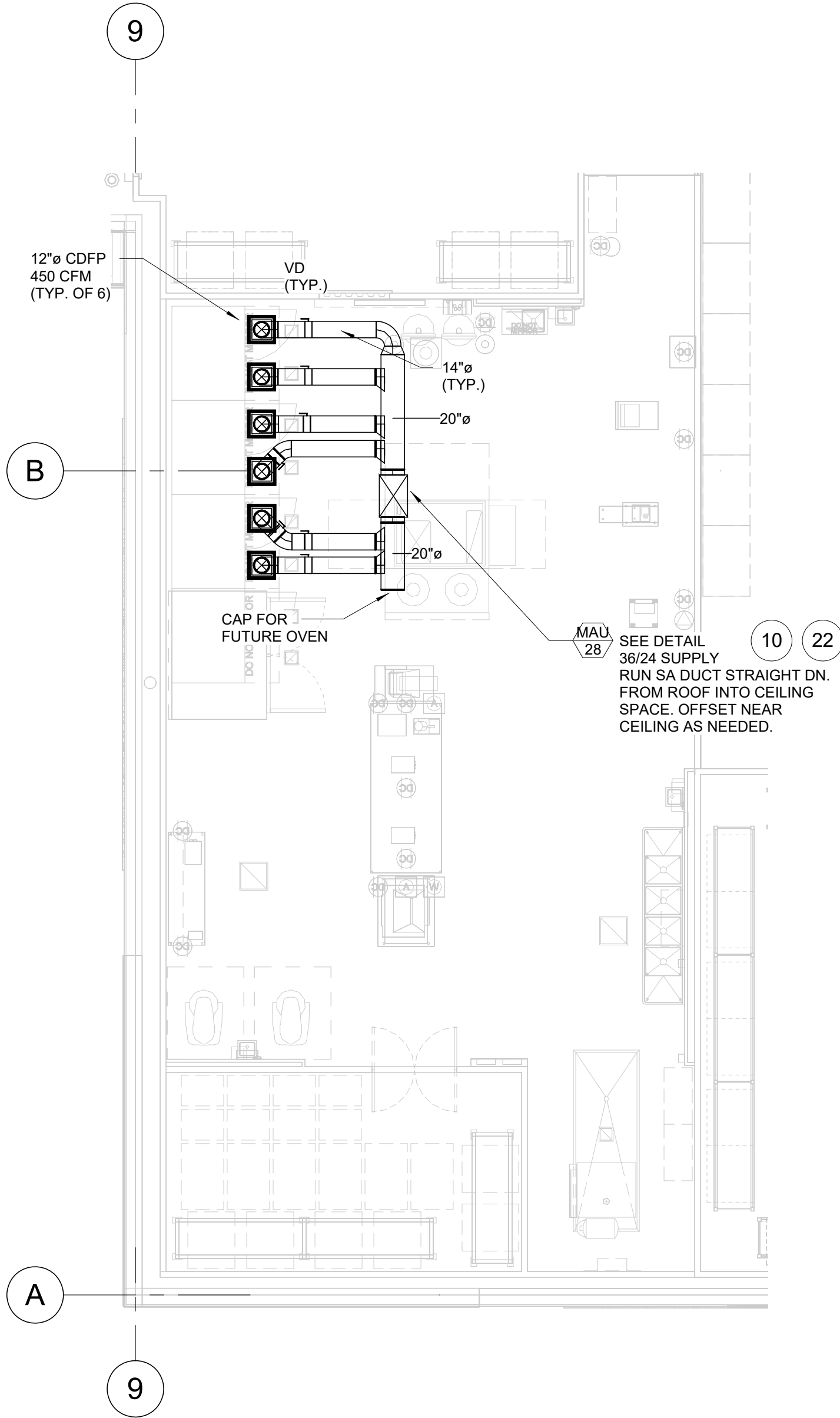
LEES SUMMIT, MO



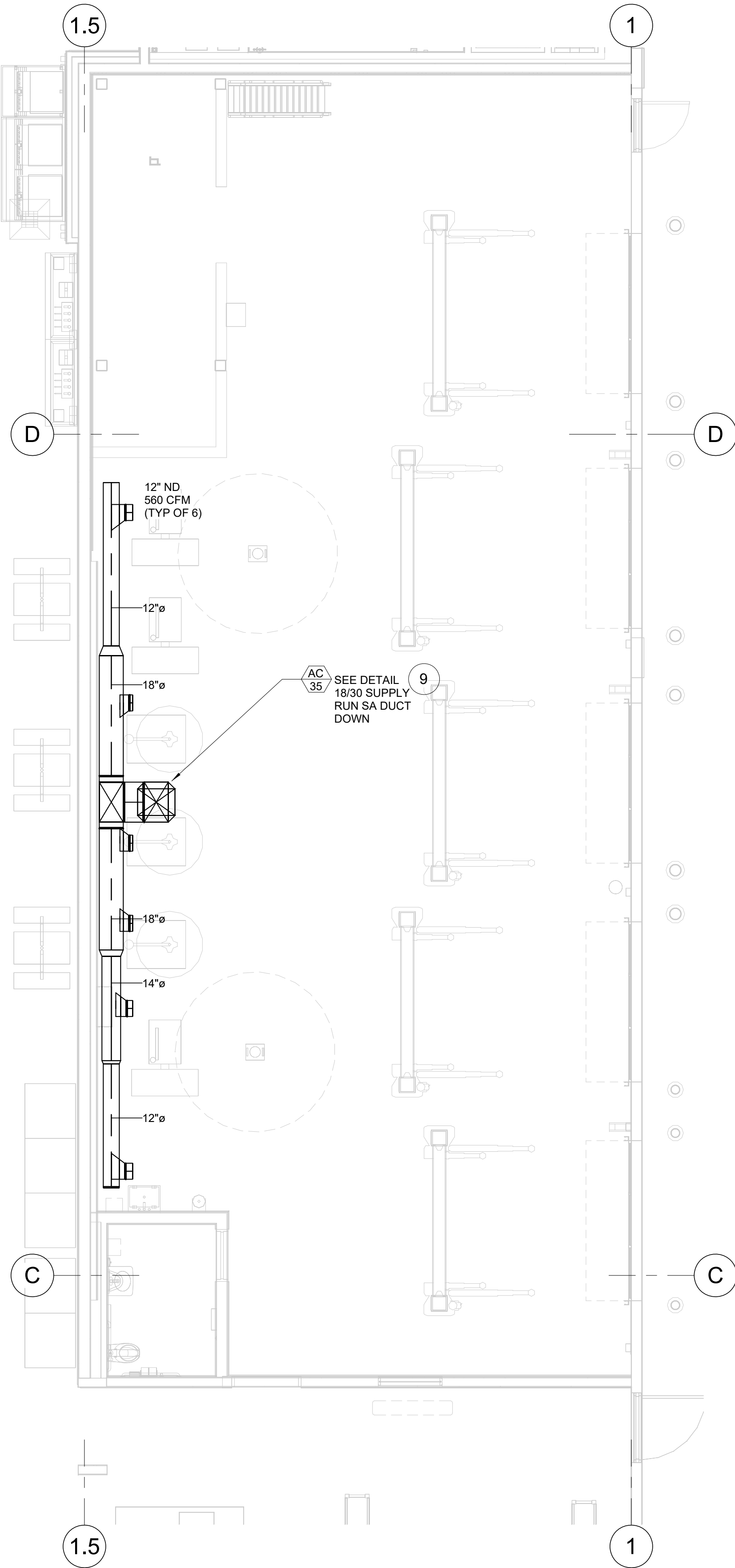
TEI #: 25-346
PM: JAR
CHECKED BY: PKR/ANT
ISSUED: 1/12/23

HVAC CONTROLS, SCHEDULE, & DETAILS

MR-1.2

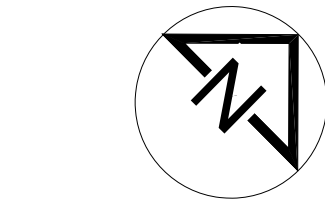


FRESH LINE HVAC PLAN(R.C.SCOPE)
SCALE: 1/8" = 1'-0"



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

ISSUED FOR PERMIT



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

ENLARGED MECHANICAL
PLANS(RC SCOPE)

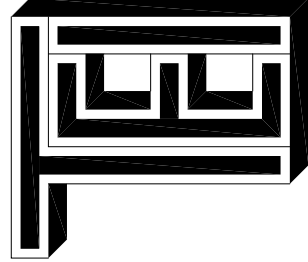
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NEW WAREHOUSE

LEES SUMMIT, MO



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T.E., INC.
4330 N. RIVERSIDE DRIVE
SUITE #200
OVERLAND PARK, MO 66207
PHONE: 415-970-3753
FAX: 415-970-3756

DATE DESCRIPTION
11/26/25 ISSUED FOR QA
12/23/25 ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION



PLUMBING PLAN INDEX	DETAIL INDEX
P-0.1 PLUMBING LEGEND, INDEX, & GENERAL NOTES P-0.2 PLUMBING SCHEDULES P-1.1 UTILITY/UNDERGROUND PLUMBING PLAN P-1.2 MAIN PLUMBING PLAN P-1.3 GAS PIPING PLAN, GAS CALCULATIONS 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 MECHANICAL ROOM WASTE & DRAIN PLANS P-3.2 TIRE AIR PIPING & FRESH LINE PLUMBING PLAN P-4.1 PLUMBING DETAILS P-4.2 PLUMBING DETAILS P-4.3 PLUMBING DETAILS P-5.1 VENT RISER DIAGRAMS P-5.2 VENT RISER DIAGRAMS	1,3,4,5,9 64,111 67,68,69,70,71,72,73 51 2,6,7,8,11,12,13,14,15,16,17,18,19,20,21,22,24,25 26,27,28,29,30,31,32,33,34,36,37,38,43,44,46,47,77 10,39,40,41,42,45,49,50,60,62,75,78,80,82,84,85,86,90,112 NONE NONE

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	OES	4	4	1	16	4
BREAK ROOMS		1	3	2	3	2
PUBLIC	WC	11	4	5	44	55
RESTROOM	U	4	2	4	8	16
LAV		9	2	1	16	9
DF		2	1	0.5	2	1
MOP SINK(MS-2)		1	3	3	3	3
HB(JANITOR)		1	0	2.5	0	2.5
D-5		4	2	0	8	0
			SUBTOTAL		107	94.5
FOOD SERVICE	HS(F-4)	3	2	1	6	3
(GI-2)	3-COMP(F-5)	1	8	8	8	8
	1-COMP(F-6)	1	3	2	3	2
	STEAM TABLE(F-7)	1	3	2	3	2
	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	4	4	5
	LAV	1	2	1	2	1
	SS	1	0	0	0	0
	D-4(SODA)	1	0	0	0	0
	D-5	1	2	0	2	0
			SUBTOTAL		14	11.5
DEMO/ STORAGE (GI-1)	3 COMP(E-18)	1	4	3	4	3
	HS(E-1)	1	1	1	1	1
	D-5	1	0	0	0	0
	3-COMP(E-23)	1	2	2	2	2
ROTTISSERIE (GI-1)	1-COMP(E-16)	1	3	3	3	3
	SKEWER(E-27)	1	3	4	8	4
	2-COMP(E-28)	1	3	3	3	3
	HB(E-10)	2	0	2.5	0	5
	HS(E-1)	4	2	1	8	4
	DETERGENT(HB-2)	1	0	2.5	0	2.5
	OVEN	4	1	1	0	4
	TD-25	1	3	0	3	0
	TD-5	4	6	0	24	0
			SUBTOTAL		64	35.5
MEAT & BAKERY	4-COMP(E-22)	1	8	4	8	4
	3-COMP(E-23)	1	6	6	6	6
	2-COMP(E-28)	1	3	3	3	3
	1-COMP(E-15)	1	3	3	3	3
	HS(E-1)	5	2	1	10	5
	HB(E-10)	2	0	2.5	0	5
	HB-1(EXTERIOR)	1	0	2.5	0	2.5
	METER(E-5)	1	0	2	0	2
	PAN WASHER(D-6)	1	8	6	8	6
	OVEN	4	1	1	0	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	1	2	1	2	1
	DF	1	2	0.5	2	1
	D-5	1	2	0	2	0
	D-1	1	0	0	1	0
	D-4 (ICE MACHINE)	1	4	4	4	4
	EW-1	1	1	2	1	2
			SUBTOTAL		15	9
SCRUBBER	MS-2	1	3	3	3	3
	HB-2	2	0	2.5	0	5
	HB-1(EXTERIOR)	1	0	2.5	0	2.5
	D-8	1	8	0	8	0
	D-4	3	4	0	12	0
	EVAC(D-11)	1	8	4	8	4
			SUBTOTAL		31	14.5
MACHINE ROOM						
MAIN SALES	HB	3	0	2.5	0	7.5
			SUBTOTAL		0	7.5
					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)	WSFU (FLUSH VALVE)	WSFU (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

VALVE TAG	DESCRIPTION	SERVES	VALVE TAG	DESCRIPTION	SERVES
GAS BAK	GAS ISOLATION	BAKERY OVENS	WATER PRR	WATER ISOLATION	PUBLIC RESTROOM
GAS EXT	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 FUL	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 REC	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			

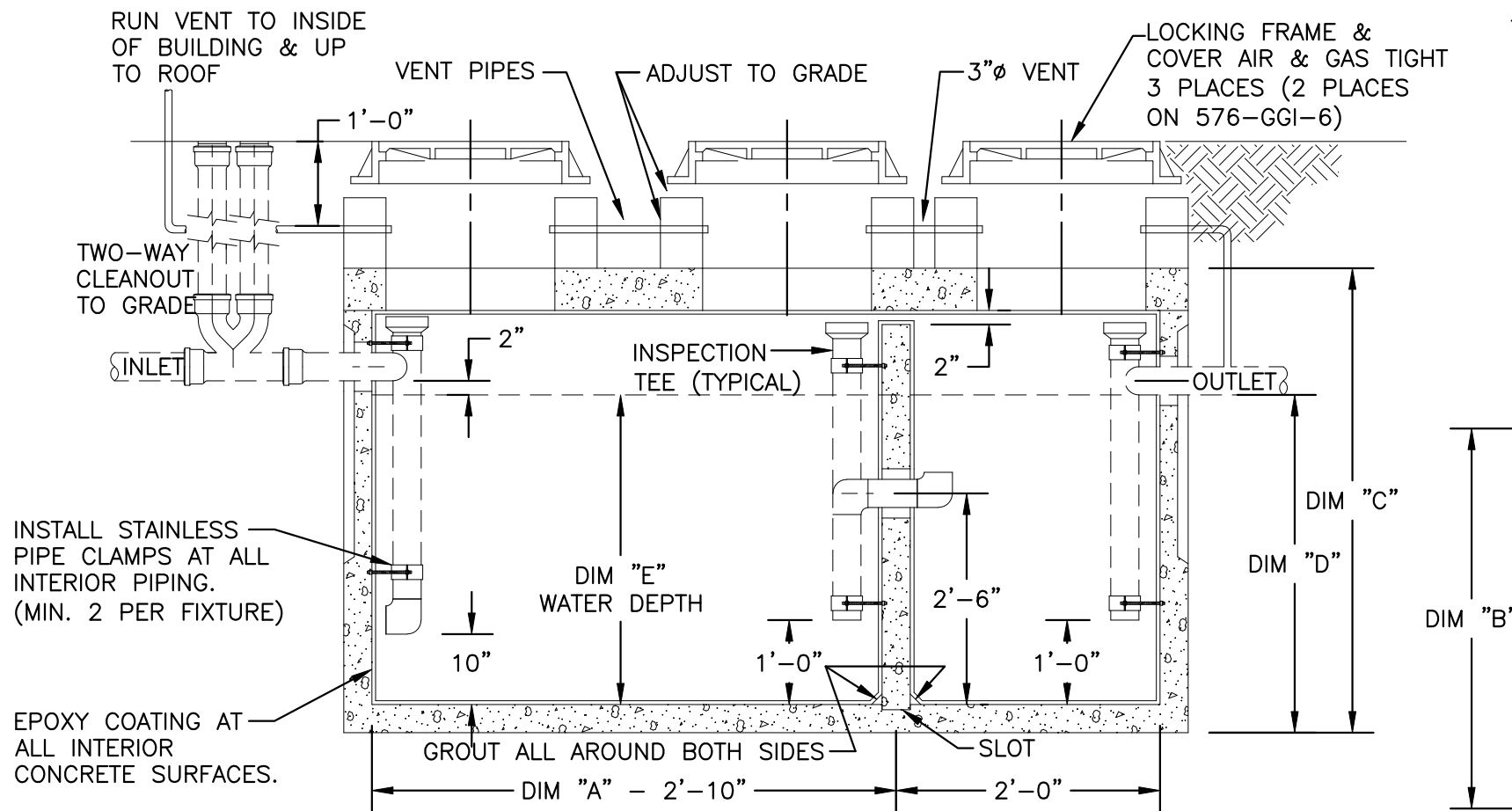
FOR MORE INFORMATION, SEE SPEC SECTION 220500 2.9.

PLUMBING LEGEND

—CW—	COMBINATION WASTE & VENT	—	GAS COCK	—	CAP OFF	—	PSI	POUNDS PER SQUARE INCH
—GW—	GREASY WASTE/SANITARY SEWER	—	CONTROL VALVE - 2 / 3 WAY	—	A.F.F.	—	RN	ROUGH INSTALLATION
—	WASTE/SANITARY SEWER	—	P&T	—	AHJ	—	RPPB	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
—	VENT	—	RPPB/RNZ	—	B.F.F.	—	RPZ	REDUCED PRESSURE ZONE ASSY. BACKFLOW PREVENTER
—	COLD WATER	—	STRAINER	—	C.O.	—	SCO	SURFACE CLEAN OUT
—	HOT WATER	—	—	—	CLEAN OUT	—	S.S.	SANITARY SEWER
----	HOT WATER CIRCULATION	----	THERMOMETER	----	CONT.	----	TYP.	TYPICAL
—A—	AIR	—	UNION	—	CW	—	U	UNION
—C—	CONDENSATE DRAIN	—	VALVE - CHECK	—	FCO	—	UNO	UNLESS NOTED OTHERWISE
—G—	GAS	—	VALVE - GATE	—	G.C.	—	VTR	VENT THRU ROOF
—N2—	NITROGEN	—	VALVE - BALL	—	H&CW	—	W	WASTE
—RD—	FILTERED (RO) COLD WATER	—	VALVE - PRESSURE REDUCING	—	HW	—	WCO	WALL CLEAN OUT
—H—	HARD COLD WATER	—	MIXING VALVE	—	IN. WC	—	WHA	WATER HAMMER ARRESTER
—SD—	STORM/OVERFLOW DRAIN	—	PRESSURE GAUGE	—	MBH	—		
			AUTO AIR VENT	—	M.C.	—		

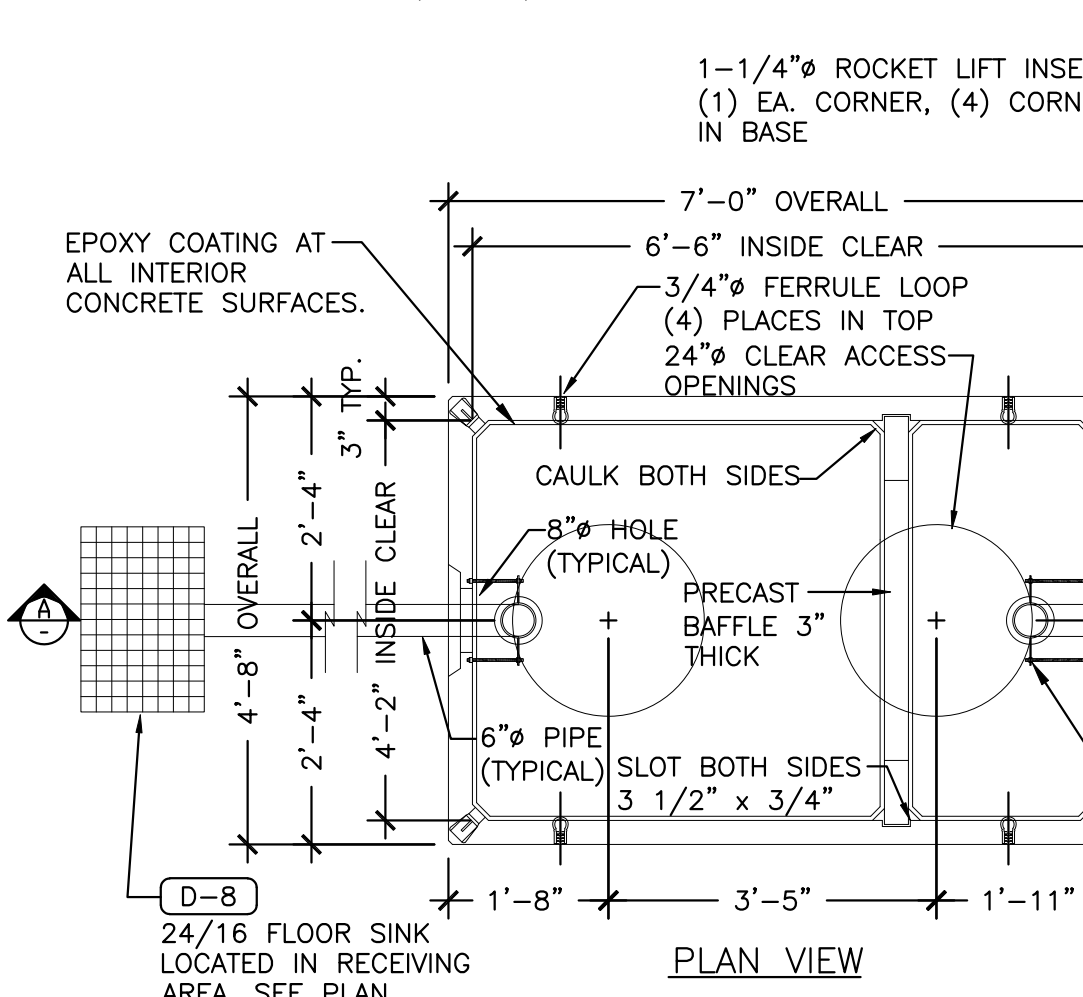
INTERIOR FLOOR CLEANOUT

SCALE: NONE REV: SI/12-24/24-000



GREASE INTERCEPTOR DETAIL GI-1,2

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



SAND SEPARATOR S/S

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

PIPING SYSTEMS

THE FOLLOWING NOTES APPLY TO ALL PLUMBING PLANS.

1. APPLICABLE PLUMBING CODE: 2018 IPC
2. ALL WASTE PIPING, CONDENSATE PIPING & STORM DRAIN PIPING TO BE SLOPED AT 2% MINIMUM UNLESS OTHERWISE NOTED.
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.
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).
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 LIGHTING & SKYLIGHTS.
7. PROVIDE THE DOWN FOR ALL FLUES & 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.

WASTE & VENT

THE FOLLOWING NOTES APPLY TO ALL WASTE & VENT PLANS.

1. ALL VENTS ON THE COMBINATION WASTE & VENT SYSTEM SHALL BE SUPPLIED WITH WALL CLEANOUTS.
2. ALL FLOOR SINKS AND FLOOR DRAINS THAT SERVE THE COMBINATION WASTE & VENT SYSTEM SHALL BE PROVIDED WITH A P-TRAP TWO SIZES LARGER THAN THE FLOOR DRAIN OR FLOOR SINK IT IS SERVING.
3. ALL VERTICAL OFFSETS ON COMBINATION WASTE AND VENT (CWV) TO BE AT 45'.
4. EXTEND ALL PLUMBING VENTS WITHIN 15' OF PARAPET TO MINIMUM 2' ABOVE PARAPET. EXTEND ALL VENTS MINIMUM 15' AWAY FROM ALL INTAKE AS REQUIRED.
5. SEE FIXTURE SCHEDULE FOR MINIMUM TRAP ARM AND VENT SIZE.
6. ALL DIMENSIONS TO COLUMN LINES.

UTILITY NOTES

THE FOLLOWING NOTES APPLY TO UTILITY PLANS.

1. DESIGN FROST DEPTH: 3'-6" BELOW GRADE
REQUIRED MINIMUM BURY DEPTH FOR ALL PIPING EXTERIOR TO BUILDING.
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. 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. 3/4" COLD WATER SERVICE. 2" METER LOCATED OUTSIDE BLDG. BY CIVIL. BACKFLOW DEVICE LOCATED INSIDE OF BLDG.

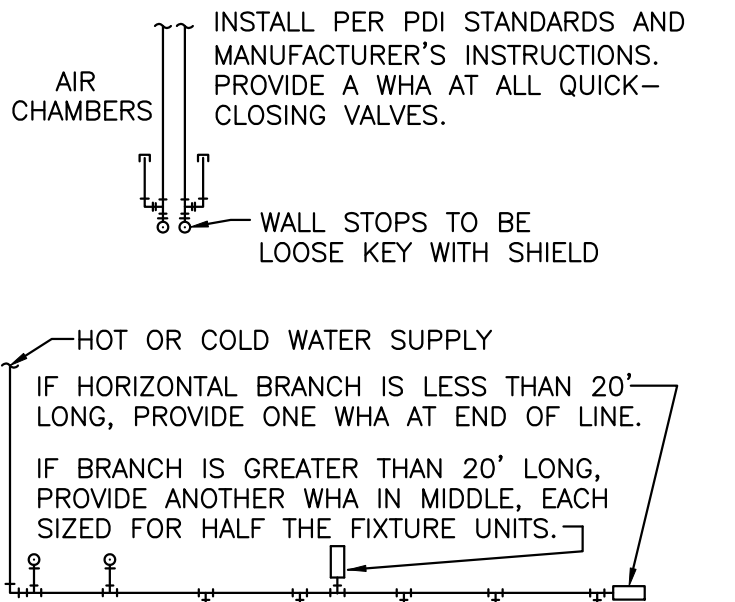
DOMESTIC WATER

THE FOLLOWING NOTES APPLY TO ALL DOMESTIC PIPING PLANS.

1. RUN ALL PIPING IN TRUSS SPACE, EXCEPT FOR 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 HEATER 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.

SINGLE/DOUBLE FIXTURE

PDI SIZE	FIXTURE UNIT LOAD
A	1-11
B	12-32
C	33-60
D	61-113
E	114-154
F	154-330

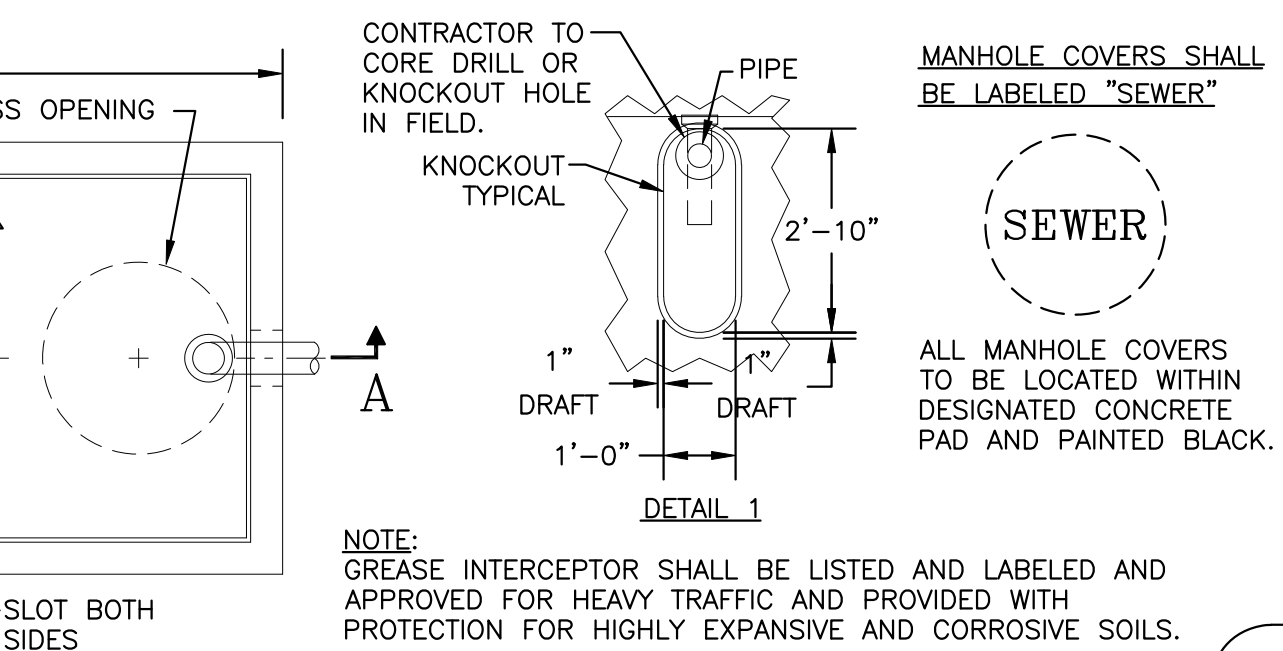


- FOR BATTERIES OF FIXTURES, PROVIDE WATER HAMMER ARRESTERS BY ZURN OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH- 201, ASSE #1010 AND ANSI #4112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY TO "WHA" WHERE REQUIRED BY LOCAL CODE.

WATER HAMMER ARRESTERS

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

	GI-1	GI-2
GALLON CAPACITY	1500	1000
UV CO. MODEL NO.	5106-GGI-6	576-GGI-6
DIM "A"	11'-2"	7'-6"
DIM "B"	5'-8"	5'-0"
DIM "C"	7'-2"	7'-8"
DIM "D"	4'-5"	5'-3"
WATER DEPTH DIM "E"	4'-0"	4'-9"



NOTE: GREASE INTERCEPTOR SHALL BE LISTED AND LABELED AND APPROVED FOR HEAVY TRAFFIC AND PROVIDED WITH PROTECTION FOR HIGHLY EXPANSIVE AND CORROSIVE SOILS.

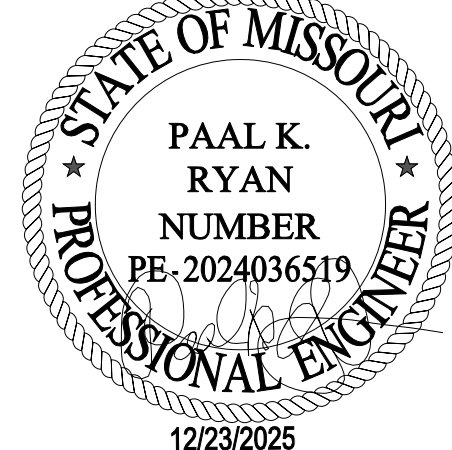
- STRUCTURAL NOTES:
1. CONCRETE: DAY COMPRESSIVE STRENGTH F'C = 4500 PSI.
 2. REBAR: ASTM A-615 GRADE 60
 3. MESH: ASTM A-185 GRADE 65
 4. DESIGN: ACI-318-02 BUILDING CODE
 5. LOADS: H-20 TRUCK WHEEL P = 16.0 KIP
ASTM C-856 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES" 30% IMPACT FOR LESS THAN 3 FT. SOIL COVER.

- GENERAL NOTES:
1. CONTRACTOR TO VERIFY ALL BLOCKOUT SIZES AND LOCATIONS DO ALL GROUTING & EPOXY OF VAULTS, HOLES AND SEAMS SUPPLY & INSTALL ALL PIPING & ELECTRICAL DO ALL PAINTING.
 2. OUTLET PIPE CAN BE ADJUSTED TO INCREASE OR DECREASE GALLON CAPACITY.

SHIPPING WEIGHT:
TOP SECTION = 3,245 LBS
BASE SECTION = 7,595 LBS
BAFFLE = 775 LBS
TOTAL WEIGHT = 11,615 LBS

INSERTS:
TOP SECTION = (4) 3/4" FERRULE LOOP
BASE SECTION = (4) 1-1/4" ROCKET

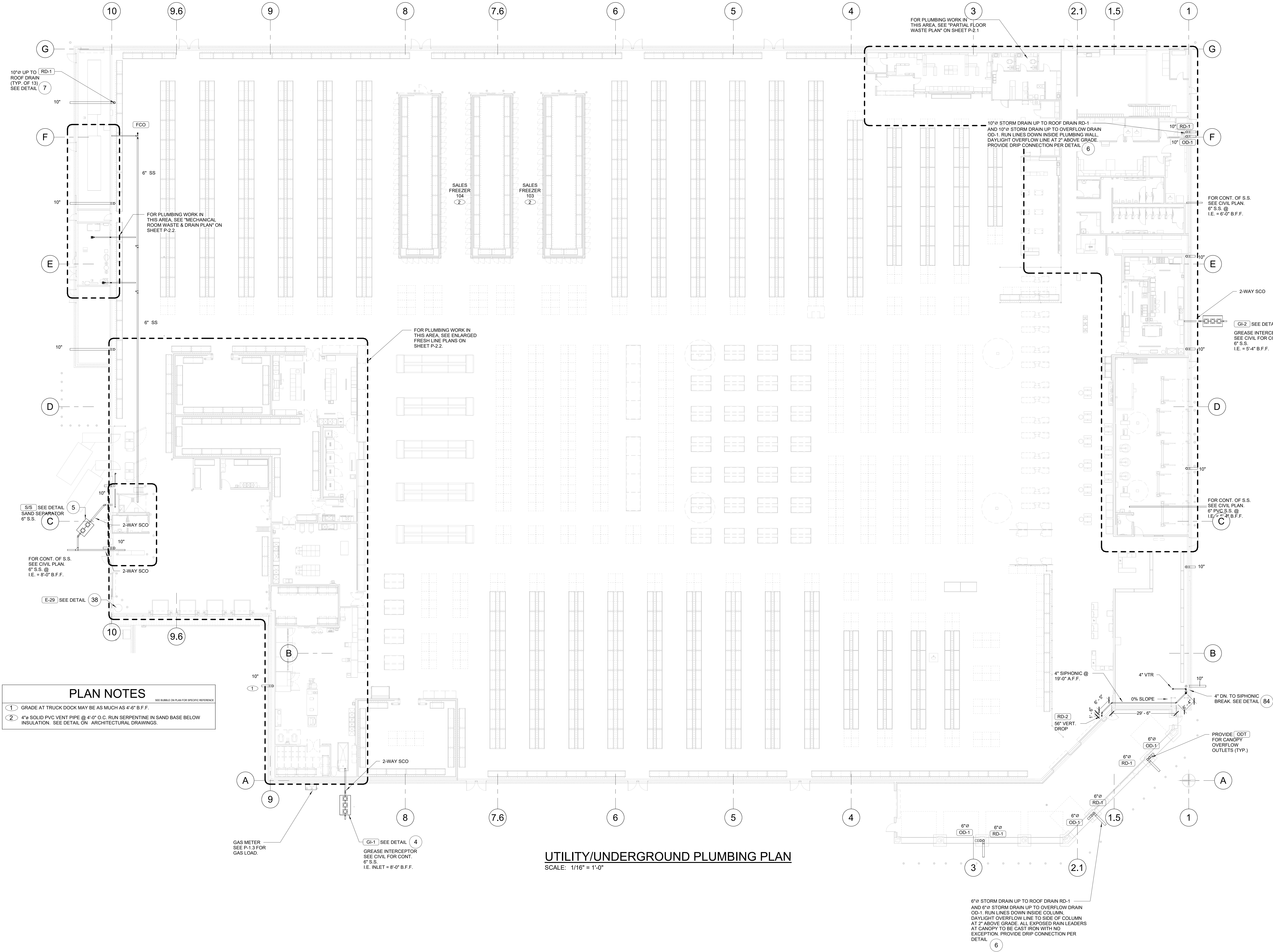
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PLUMBING FIXTURE SCHEDULE – CONTRACTOR PROVIDED												
SYMBOL	DESCRIPTION	MFR./MODEL	WASTE	VENT	COLD W.	HOT W.	SPECIFICATIONS	DETAIL	SERVES	NOTES	BACKFLOW PREVENTION	
BP	BOOST PUMP ORNE10-2 USA/MEX.	GRUNDFOS 900STERPAQ HYDR0 MPC-E CRNE10-2			3"		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.	31/P	MECHANICAL ROOM			
CP-#	CIRCULATING PUMP	GRUNDFOS UPS 16-998CF				3/4"	BRONZE HOUSING, 12 GPM @ 21 FEET OF HEAD, 120 VOLT, 197 WATTS, 1/6 HP. PROVIDE WITH THERMOSTAT/TIMER. PUMPED BY ACTUATOR. SHUT OFF BY HONICONTACT. CONTROL BY AQUASTAT.		MECHANICAL ROOM, JANITOR ROOM		N/A	
D-1	FLOOR DRAIN	STAINLESS DRAINS.COM CDSF5-RK -410-50.5	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 CSD5000AT2	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 CDS8X8X6P	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 CDS5INK12X12X10 1/2PIFIS	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 CSD5000AT-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 SDS14X8	4"	2"			HEAVY DUTY, 1/2" STAINLESS PERIMETER CAP GRATE WITH 8 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 CSD5UMP 24X16X17HD	4"	2"			24"X16" 14 GA TYPE 304 STAINLESS STEEL FLOOR SINK 17" DEEP, 28"X20" ANCHOR FLANGE WITH BASKET STRAINER, 4"NO HUB ADJUSTABLE HEIGHT OUTLET, 1/4" X 1-1/2" ON 1" CENTER GRATING.	(12)	SCRUBBER RECEPTOR	(12)	N/A	
DF-2	DRINKING FOUNTAIN	ELKAY EZSTLBSWLK	2"	1-1/2"	1/2"		WALL MOUNTED BI-LEVEL WATER COOLER (EZSTLBSWLK) WITH BOTTLE FILLING STATION (EZWSW), 8.0 GPH BASE RATE, 115V/18, 6.0 FLA, FLEXIBLE BUBBLER GUARD, SENSOR, ACTIVATED FILT 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 FFS	FLOOR CLEANOUT	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 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 CO. 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 CO. 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	+12", WALL SILL, PROVIDE WITH METAL WHEEL HANDLE.			(2)	LH-BS AVB	
HB-4	HOSE BIBB	WOODFORD 26				3/4"	+24", PIPE MOUNT-(C INLET), 3/4" HOSE FAUCET, PROVIDE WITH METAL WHEEL HANDLE.		TIRE INSTALL	(2)	LH-BS AVB	
HB-5	HOSE BIBB	WOODFORD Y30				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"	ELEVATION PER PLAN, PIPE MOUNT-(C INLET), 3/4" HOSE FAUCET, PROVIDE WITH LOOSE KEY TEE.		MAIN SALES	(2)	LH-BS AVB	
HD	HOSE DIBB	CHICAGO FAUCET 90-LABOP 83-58ABNF			3/4"	3/4" @60"	FLEXIBLE STAINLESS STEEL HOSE, 58" LONG, WITH NO. 90 SELF-CLOSING PRE-RINSE VALVE SYMMONS VISU-TEMP NO.4-500V-X-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 ETF-600-BDT ETF-233	1-1/2" @22"	1-1/2"	1/2" @23"	1/2" @23"	KOHLER, WHITE, VITREOUS CHINA, 22"X19", WALL HUNG 4" FAUCET HOLE CENTERS. LAVATORY FAUCET SHALL BE SLOAN NO. ETF-600-BOT 4" CENTERS, SENSOR OPERATED. PLUG IN TRANSFORMER, BELOW DECK THERMOSTATIC MIXING VALVE, WITH ETF-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	HAND SINK UNIT, MULTI-STATION-4 ADA, PC	SPS MSHS-ADA--002855 SLOAN ETF-680	2" @18"			1/2" @24"	120"X19"X7-3/4", 16GA. TYPE 304 S/S SEAMLESS WELDED. WALL HUNG, 4-1-1/8" FAUCET HOLES. FAUCET SHALL BE SLOAN ETF-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	6"	3"			CONCRETE 4500 PSI, REBAR: GRD 60, WORK CAP. 800 GAL. UNIT SHALL HAVE PRIOR APPROVALBY 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" @35"	3/4" @35"	ENAMELED CAST IRON SERVICE SINK WITH STAINLESS STEEL RIM GUARD, CHICAGO FAUCETS 445-RC897 5XKPC & 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 CSJA					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 LENGTH=15,10,20 LENGTH=15,25	STAINLESS DRAINS.COM CSD5DX 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 166-0.5 ES-5	1-1/2"	1-1/2"	3/4" @49.5"		FLOOR MOUNTED WHITE VITREOUS CHINA, 3/4" TOP SPUD, 2" FLOOR OUTLET, WATER SAVER FLUSHES ON 0.5 GALLONS. SLOAN ROYAL OPTIMA MODEL 166-0.5 ES-S WITH DUAL FILTERED TYPE DIAPHRAM KIT, LOW CONSUMPTION FLUSH VALVE, CHROME PLATED FOR ELOYAL, PLATED FOR RIGHT HAND 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 SSWB-82170				1/2" @14"	INSTALL WALL BOX @ +14" ABOVE FINISHED FLOOR. NO SANITARY SEWER CONNECTION REQUIRED IN FOOD SERVICE.		FOOD SERVICE		LH-BS AVB	
WC	WATER CLOSET	ZURN Z6611.258.00.00.00 Z6600AV-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, PREFILTER, RO PROCESSING UNIT, 1-40 GALLON TANK, 1-20 GALLON TANK, 0.53 GPM @ 50 PSI, 120V, 1ø, 215W, 10A MCOP. 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., 436 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					SHOKTROL 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, 1ø, 10W. 4690#; ORDER DIRECT FROM PENTAIR SEE SPEC. AND CONTACT @ 1-800-842-6193 (TWM@PENTAIR.COM)	77/P	MECHANICAL ROOM			

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		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							(9)	N/A	
OES	OPTICAL EXAM SINK		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		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)			SEE PLAN		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 220502.								HAZARD TYPE		BACKFLOW POTENTIAL		
								LH – LOW HAZARD HH – HIGH HAZARD		BS – BACK SIPHONAGE BP – BACK PRESSURE		
								BACKFLOW PREVENTION				
								RP2 – 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 16" 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						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	INDIRECT			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 BAXTER OVS00G2-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 PROWING 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"	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 BOARDS AND UNDERSHELVES, 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 INFERNO 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 RACK	KAY CHEMICAL					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	E-18	DEMO SINK	STORAGE PRODUCTS GROUP PC-3N1824 -2D18	INDIRECT		3/4"	3/4"	91" x 29-3/4" – TYPE 304 STAINLESS STEEL WITH 18.5" DRAIN BOARD ON RIGHT KOHLER FAUCET, SOPA DISPENSER SINK (3) LEVER WASTE AND OVERFLOWS.	25/P	DEMO ROOM	(1)(2)(6)	LH-AG AG
319	E-19	SEAFOOD PREP. TABLE/SINK	STORAGE PRODUCTS GROUP PC-SKU1-003 104-01	INDIRECT		1/2"	1/2"	69-5/8" x 36" – TYPE 304 STAINLESS STEEL WITH 40" DRAIN BOARD ON RIGHT T&S FAUCET WITH PRE-RINSE SPRAYER, 2" LEVER WASTE AND OVERFLOW.	88/P	MEAT PREP	(1)(6)	HH-BS AG
202	E-22	FOUR COMPARTMENT SINK	UNIVERSAL	INDIRECT		3/4"	3/4"	150" x 35-1/2" x 43" – TYPE 304 STAINLESS STEEL WITH DRAINBOARDS AND UNDERSHELFS. INCLUDES FISHER 3253 FAUCET & FISHER 2210 PRE-RINSE W/ADD-A-FAUCET, SS PANEL TO BE MOUNTED BEHIND SINK AND (3) LEVER DRAIN.	40/P	MEAT, BAKERY, DELI, ROTISSERIE	(1)(6)	LH-BS AG
318 403	E-23	POWER WASH SINK	BI-LINE CONVEYOR SYSTEMS	INDIRECT		3/4"	3/4"	TYPE 304 STAINLESS STEEL WITH DRAIN BOARDS. INCLUDED (1) T&S PRE-RINSE W/ADD-A-FAUCET, (1) T&S PRE-RINSE SPRAY, (2) TWIST LEVER DRAINS AND (1) BALL VALVE DRAIN.	24/P	MEAT, DELI	(1)(6)	LH-BS AG
499	E-24	WAREWASH STATION & 3-COMP SINK	SMITH & GREENE	INDIRECT		3/4" 1/2"	3/4" 1/2"	3-COMP SINK, VENTLESS DISHWASHER AND TABLE ASSEMBLY. TYPE 304 SS SINK. INCLUDED: (1) T&S PRE-RINSE #B-0133-B08, (1) T&S FAUCET B-0156 AND (3) ROTARY BALL DRAINS.	36/P	DELI	(1)(4)	LH-BS AG LH-BS/BP AVB
406	E-27	POWER SOAK SINK	POWER SOAK SYSTEMS	INDIRECT		3/4"	3/4"	SEE POWER SOAK SINK DETAIL #28 FOR DIMENSIONS – TYPE 304 STAINLESS STEEL WITH DRAIN BOARDS. INCLUDES (1) IPS FAUCET #K43A-8014-PS, (1) IPS PRE-RINSE #K53-5500-PS, (1) IPS ROTARY BALL DRAIN #DBN-9100.	39/P	CHICKEN PREP	(1)(6)	LH-BS AG
423	E-29	GREASE RECOVERY TANK	CLEANSTAR 1500C	2"	2"			SEE GREASE RECOVERY TANK DETAIL FOR EVACUATION AND VENT PIPING DIAGRAMS. PROVIDE SEISMIC RESTRAINT.	38/P	RECOVERY TANK	(1)(2)	LH-BS AG
(1) 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. (2) CONTRACTOR SHALL RECEIVE, UNCRATE, AND INSTALL. (3) PROVIDE RIGHT AND LEFT SPLASH GUARDS IN MEAT PREP. ONLY. (4) EQUIPMENT SUPPLIED AND INSTALLED BY OWNER(S.I.O.). THE MECHANICAL CONTRACTOR SHALL ROUGH-IN PLUMBING AND PROVIDE SHUTOFF VALVES AND ESCUTCHEONS. VENDOR TO MAKE ALL FINAL CONNECTIONS. (5) M.C. TO PROVIDE WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE. (6) CONTRACTOR TO PROVIDE 90 DEGREE ELBOW WITH BALL VALVE AND CHECK VALVE WITHIN 3" OF WALL.									HAZARD TYPE		BACKFLOW POTENTIAL	
									LH – LOW HAZARD HH – HIGH HAZARD		BS – BACK SIPHONAGE BP – BACK PRESSURE	
									BACKFLOW PREVENTION			
									RPZ – REDUCED PRESSURE PRINCIPLE BACK FLOW PVB – PRESSURE VACUUM BREAKER AG – AIR GAP AVB – ATMOSPHERIC VACUUM BREAKER			



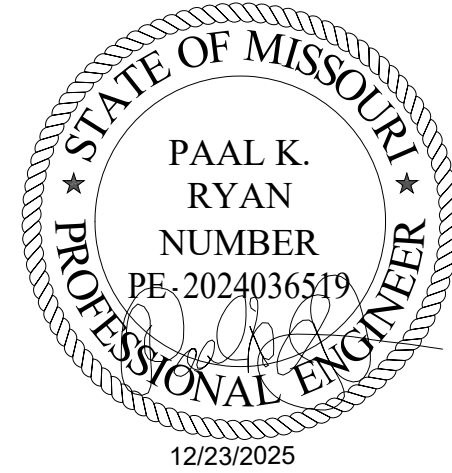
PLAN NOTES

- 1 GRADE AT TRUCK DOCK MAY BE AS MUCH AS 4'-6" B.F.F.
2 4" SOLID PVC 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"

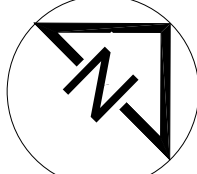
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12/23/25	ISSUED FOR PERMIT

T.E., INC.
930 N. RIVERSIDE DRIVE
SUITE #200
LEES SUMMIT, MO 64067
PHONE: 417-970-3753
FAX: 417-970-3756

NEW WAREHOUSE
LEES SUMMIT, MO



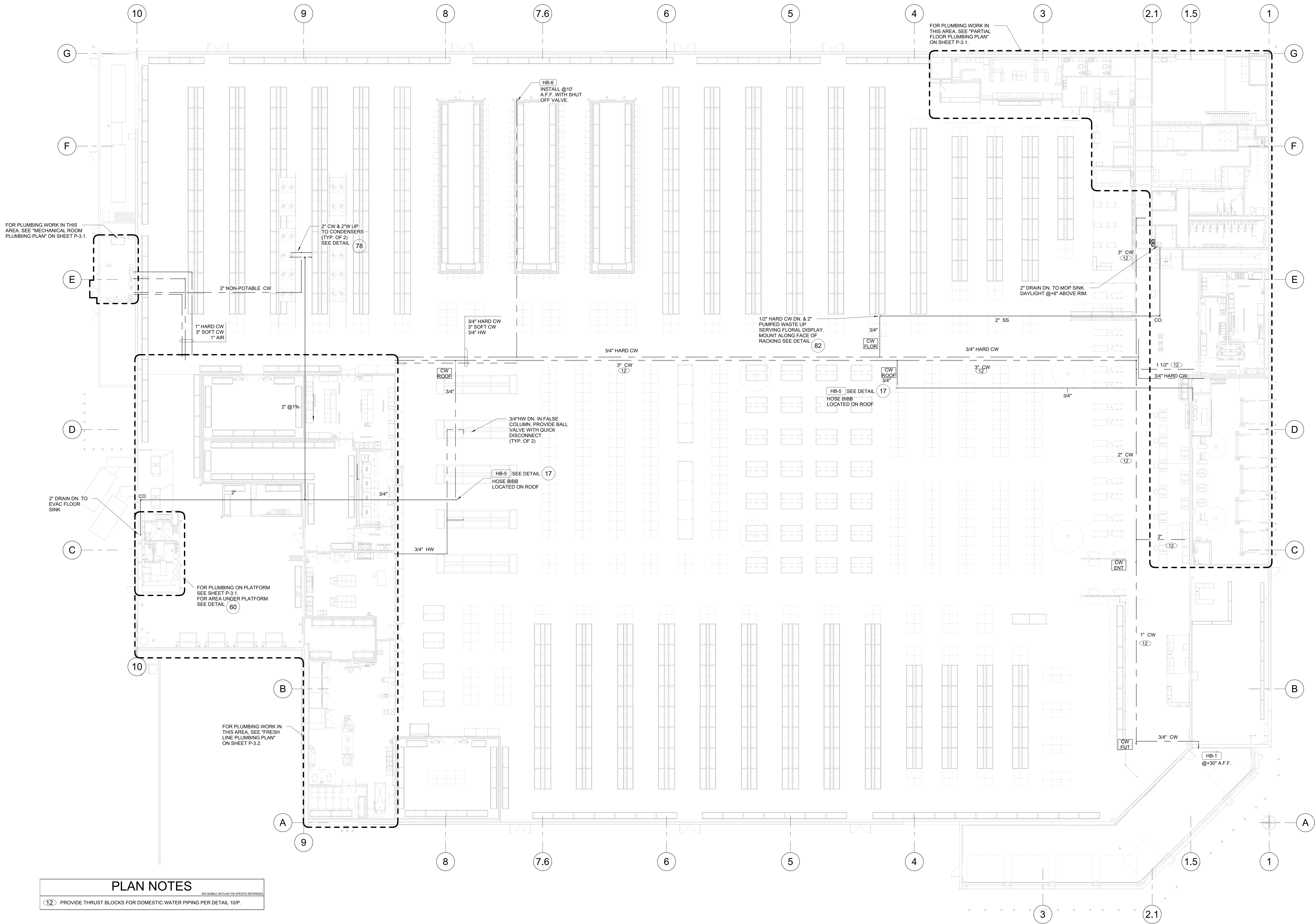
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UTILITY/UNDERGROUND
PLUMBING PLAN

P-1.1

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

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T.E., INC.
930 N. RIVERSIDE DRIVE
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LEES SUMMIT, MO 64067
PHONE: 425-970-3753
FAX: 425-970-3756

NEW WAREHOUSE
LEES SUMMIT, MO



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MAIN PLUMBING PLAN

GAS SIZE CHART		
PIPE SIZE	PSI	MAX DEVELOPED LENGTH (FEET)
1/2"	2	147
3/4"	2	307
1"	2	579
1-1/4"	2	1,189
1-1/2"	2	1,782
2"	2	3,434
2-1/2"	2	5,475
3"	2	9,683
4"	2	19,759
6"	2	57,922
8"	2	119,061

PROVIDE ONE OF FOLLOWING REGULATORS AT EACH PIECE OF EQUIPMENT
SENSUS MODEL #496
PIPE SIZE - 3/4" OR 1"
ORIFICE - .38"
SPRING - GREEN
FOR GAS LOAD UP TO 750 MBH
MAXITROL MODEL:
325-SLB00
PIPE SIZE - 3/4" OR 1"
FOR GAS LOAD UP TO 240 MBH
325-TAL210D
PIPE SIZE 1-1/4" OR 1-1/2"
FOR GAS LOAD BETWEEN 340 MBH AND 1000 MBH
*ALL GAS PRESSURE REGULATORS TO BE RATED FOR 5 PSI.

GAS SIZE CHART		
PIPE SIZE	PSI	MAX DEVELOPED LENGTH (FEET)
1/2"	7	45
3/4"	7	94
1"	7	177
1-1/4"	7	363
1-1/2"	7	544
2"	7	1,048
2-1/2"	7	1,672
3"	7	2,956
4"	7	6,032
6"	7	17,683
8"	7	36,348

GAS CALCULATIONS		
Packaged Rooftop HVAC Equipment	Load(Btu/hr)	
AC-3	270,000	
AC-7-15	4,860,000	
AC-32	210,000	
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		
ROTTISERIE OVENS	960,000	
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.		

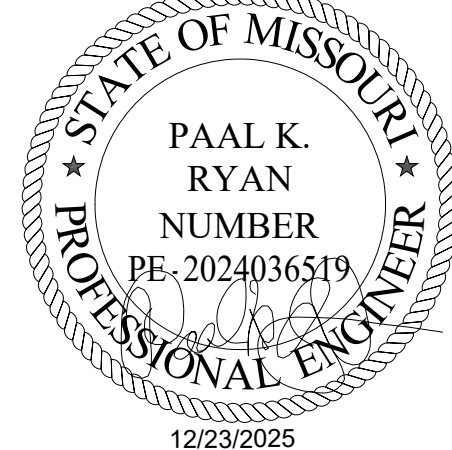
GAS METER
14,965 TOTAL MBH
@ 2 PSI
SEE DETAIL 12

OFFSET GAS PIPING IN WALL TO CORNER OF COOLER.
RUN PIPE EXPOSED ON BAKERY SIDE OF WALL ONLY FAR ENOUGH TO INSTALL VALVE CONTINUE PIPE BEHIND WALL UP TO TRUSS SPACE

GAS PIPING PLAN

SCALE: 1/16" = 1'-0"

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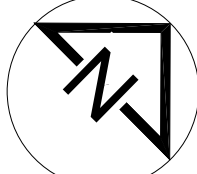
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T.E., INC.

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SUITE 200
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PHONE: 415-970-3753
FAX: 415-970-3756

NEW WAREHOUSE

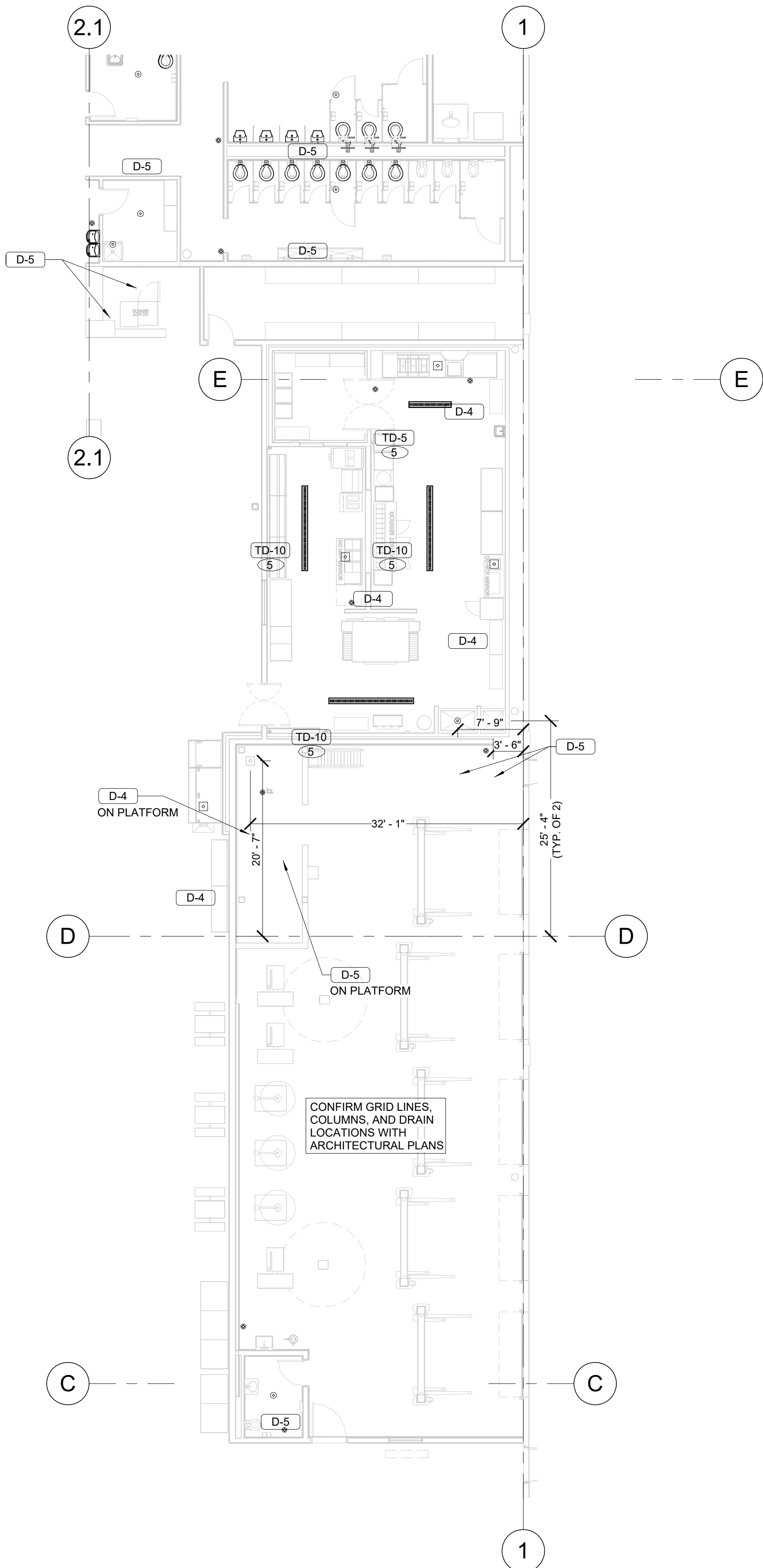
LEES SUMMIT, MO



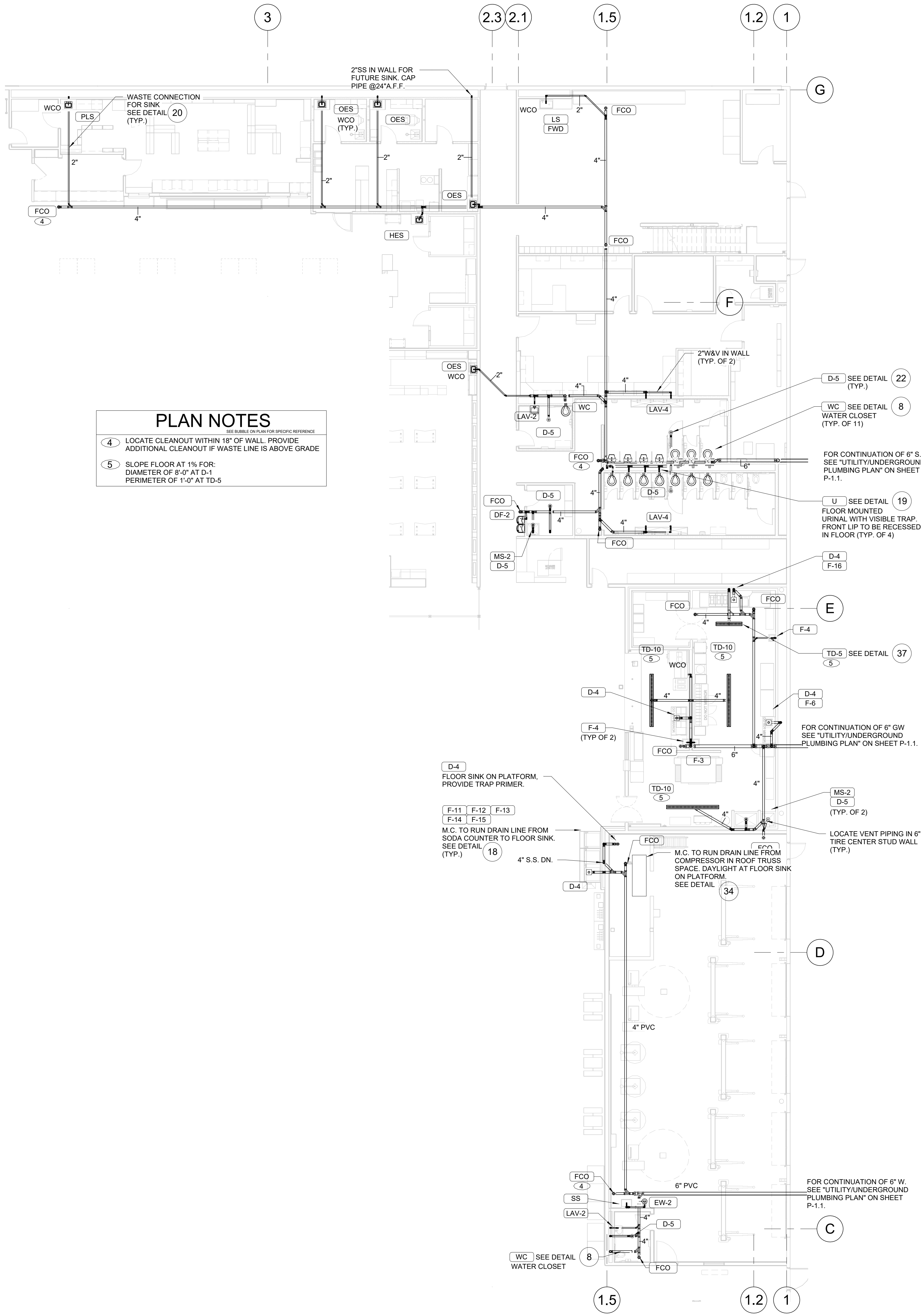
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GAS PIPING PLAN AND GAS CALCULATIONS

P-1.3



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



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

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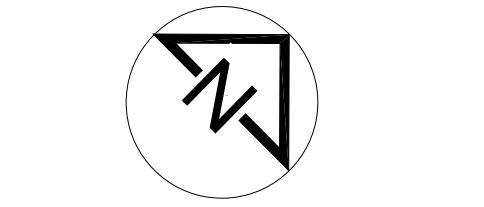


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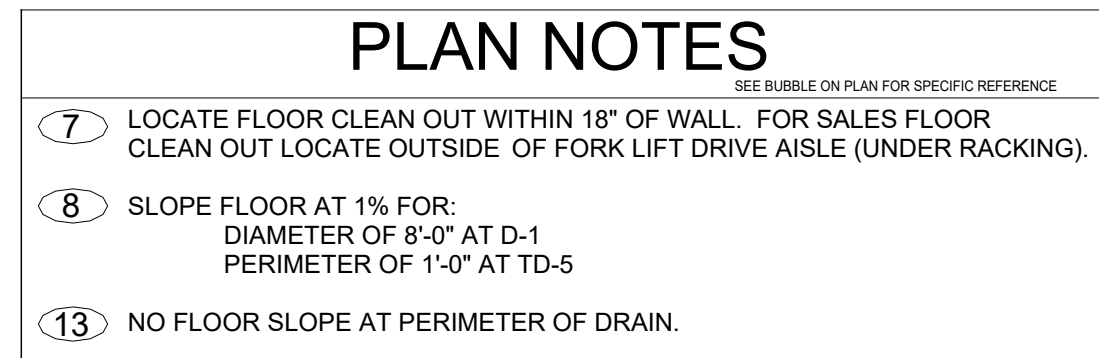
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930 N. RIVERSIDE DRIVE
SUITE #200
LEES SUMMIT, MO 64067
PHONE: 417-970-3753
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NEW WAREHOUSE
LEES SUMMIT, MO



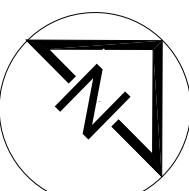
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FRONT END WASTE & DRAIN
PLANS

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830 N. RIVERSIDE DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

NEW WAREHOUSE



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FRESH LINE WASTE & DRAIN PLANS

P-2.2

PLAN NOTES

SEE BUBBLE ON PLAN FOR SPECIFIC REFERENCE

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

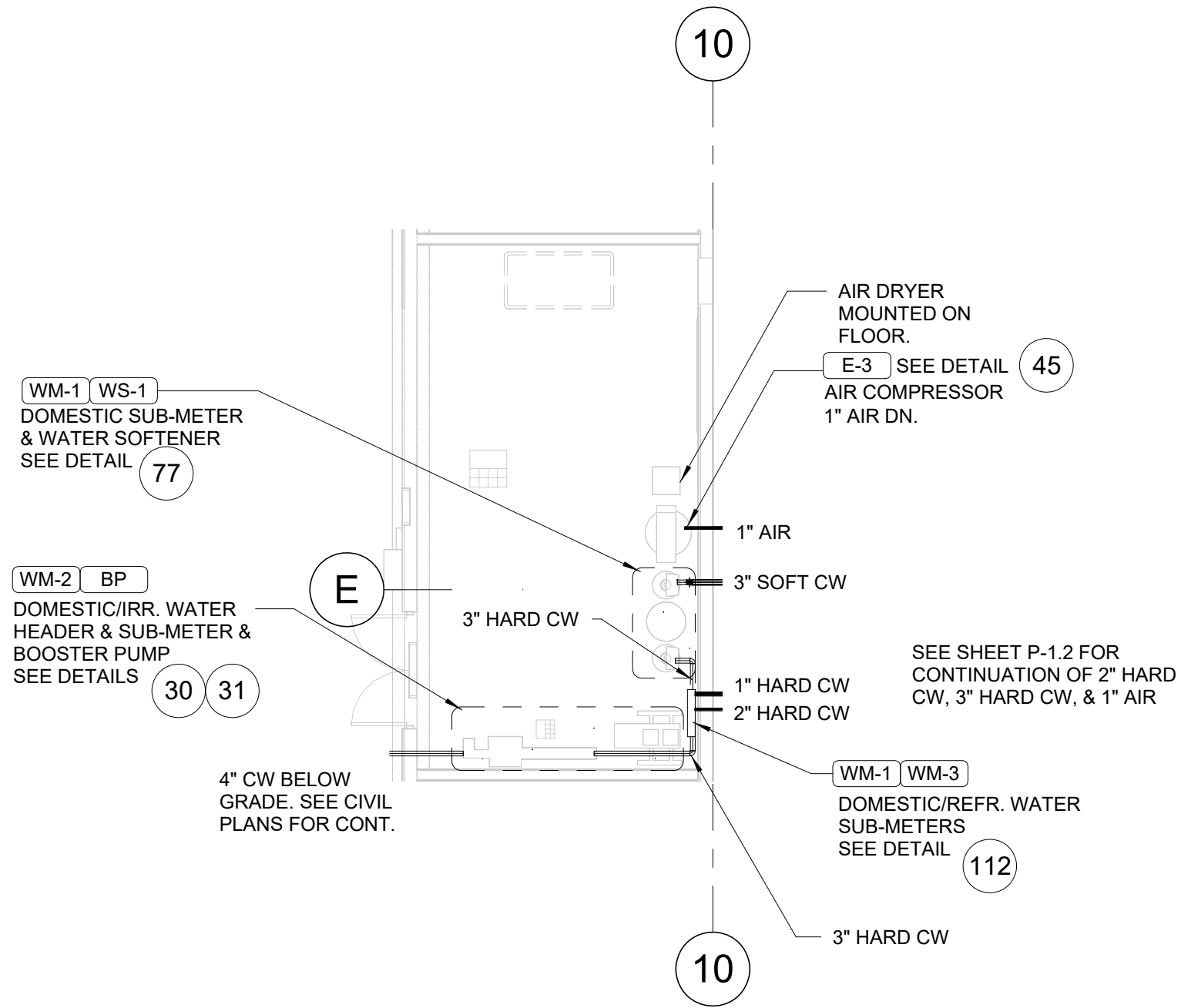
DO NOT LOCATE ANY PIPING ABOVE REFRIGERATION RACK OR IN 10'-0" REFRIGERATION PIPE-WAY TO SALES FLOOR COOLERS. VERIFY PIPE-WAY LOCATION IN ARCH. DRAWINGS

11

VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.

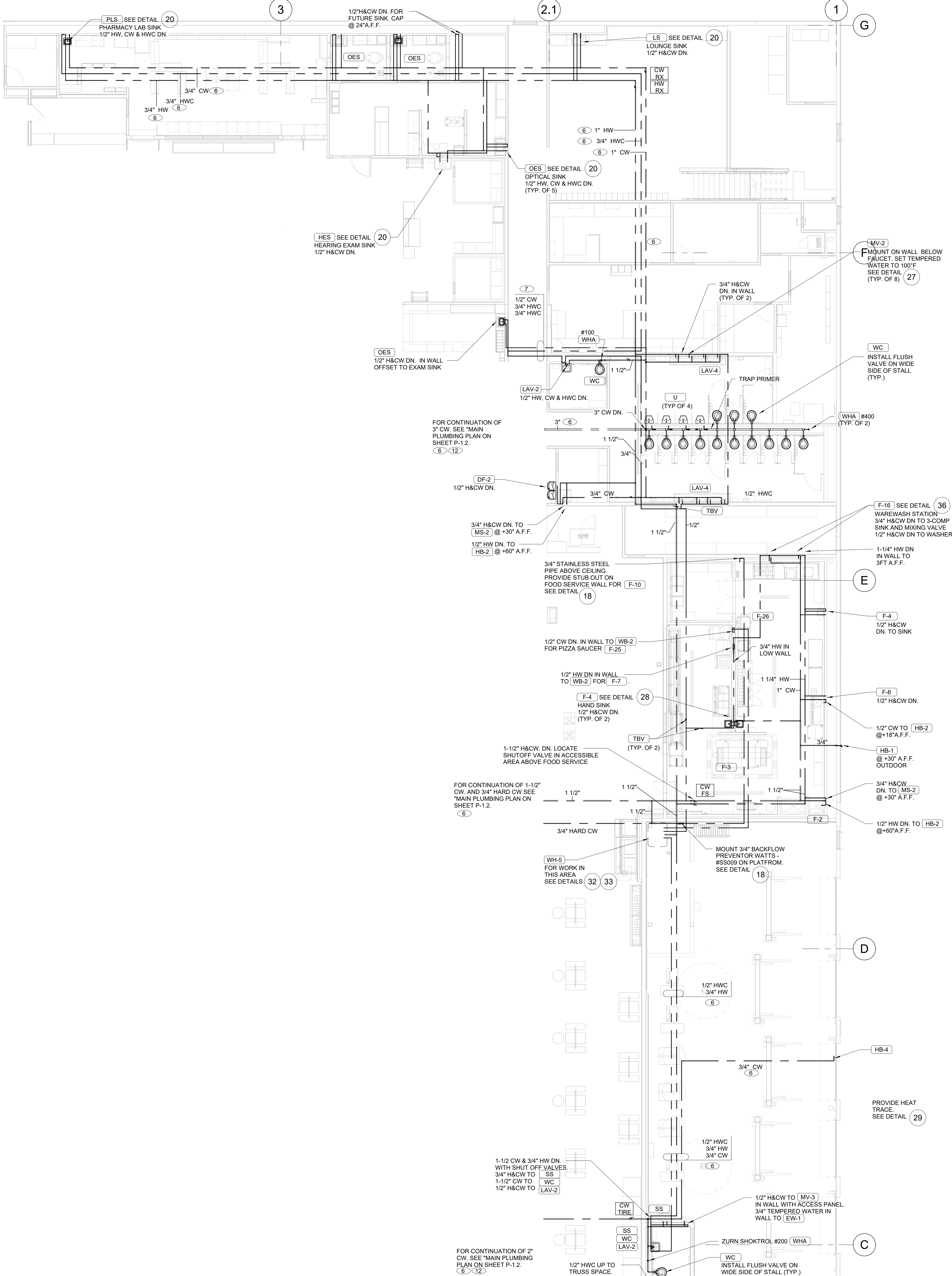
12

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"

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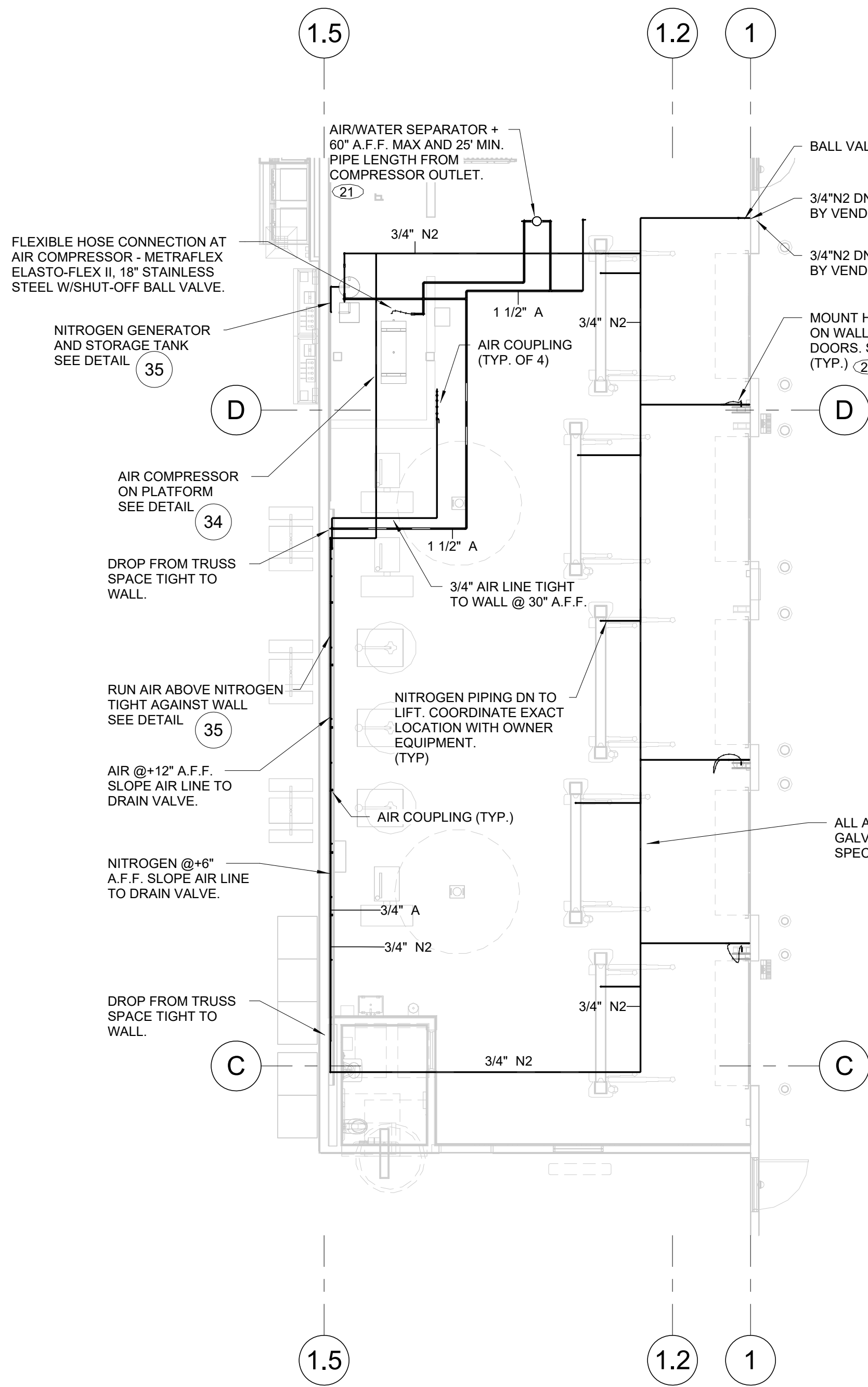
NEW WAREHOUSE

LEES SUMMIT, MO

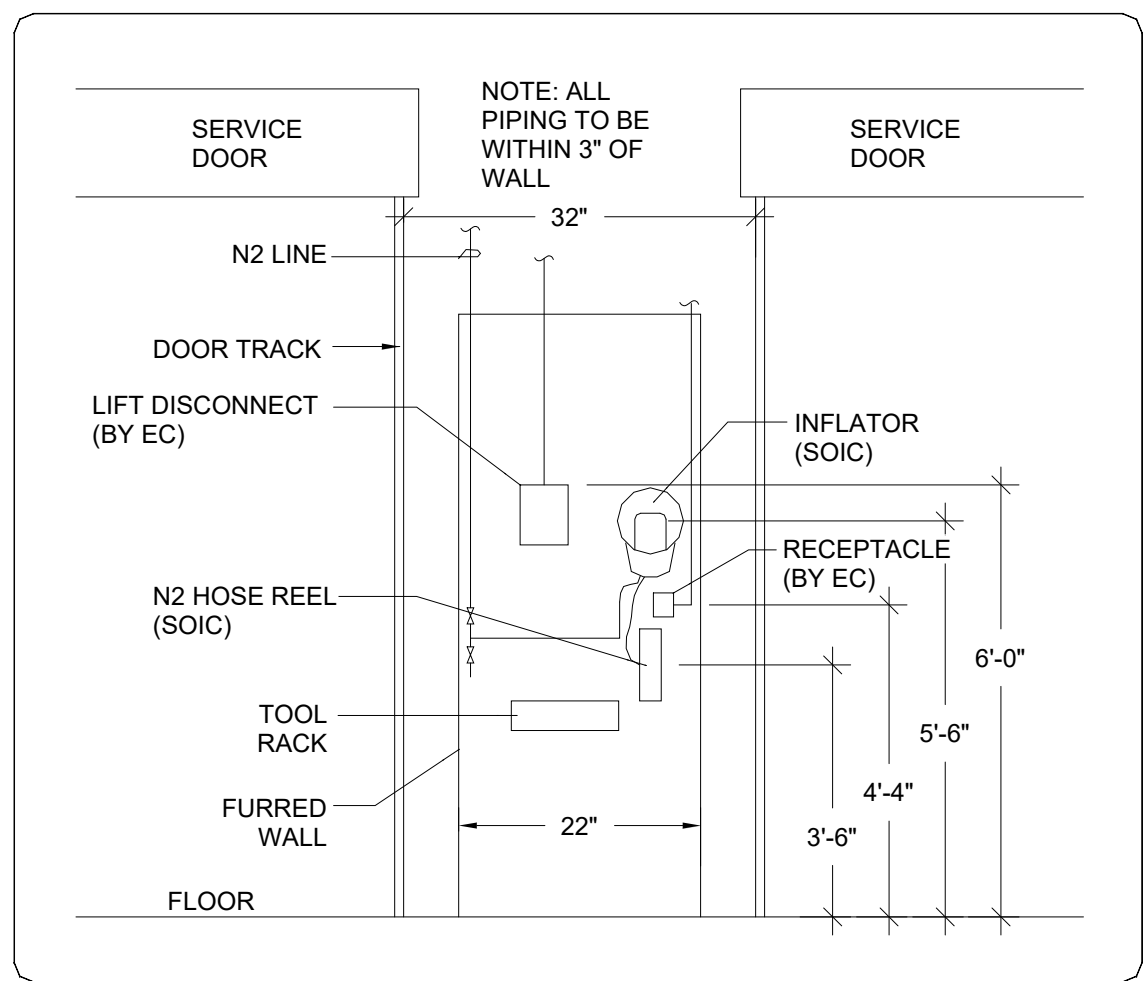


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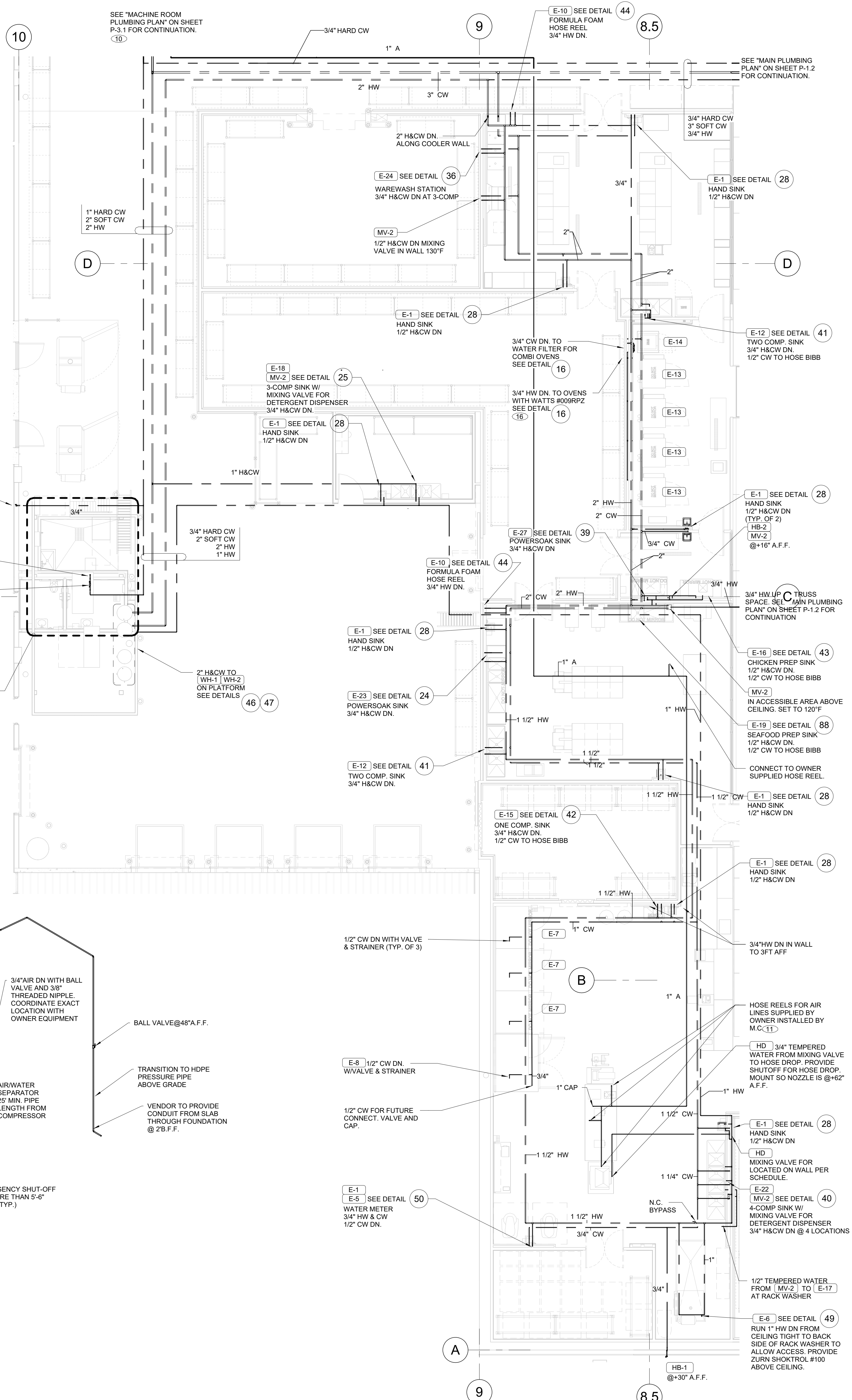
ENLARGED PLUMBING PLANS



TIRE INSTALL AIR PIPING
SCALE: 1/8" = 1'-0"

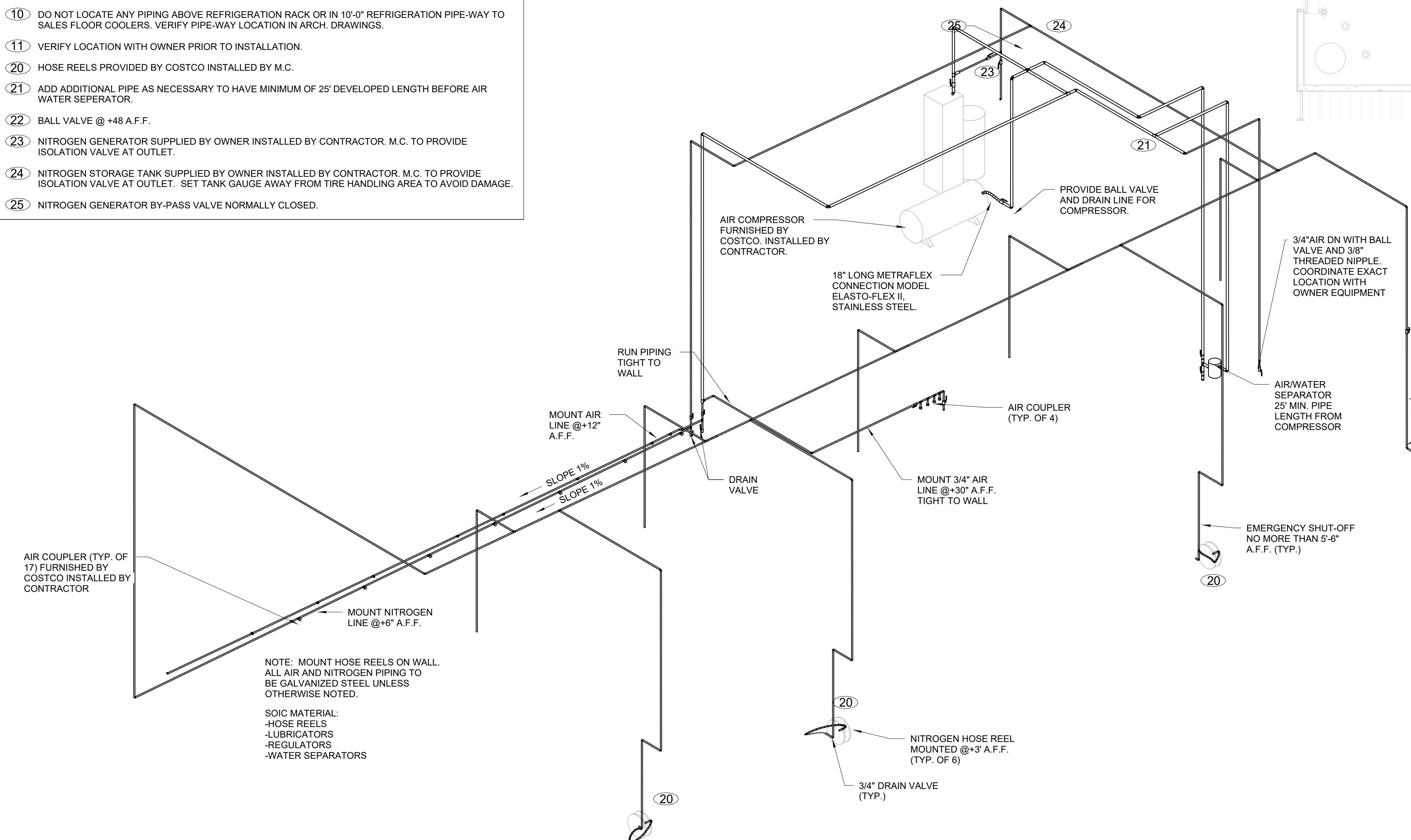


51 Hose Reel & Piping Elevation Detail
SCALE: N.T.S.



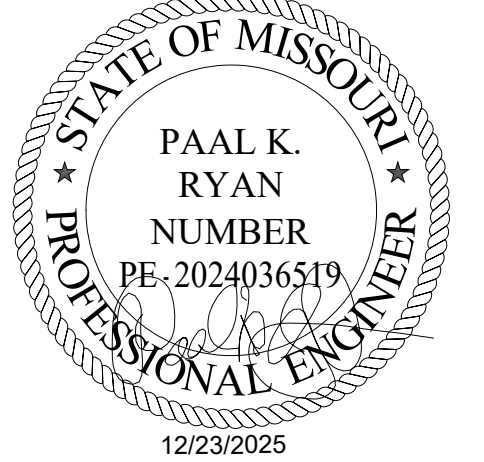
FRESH LINE PLUMBING PLAN
SCALE: 1/8" = 1'-0"

- PLAN NOTES
- 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.
 - VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
 - HOSE REELS PROVIDED BY COSTCO INSTALLED BY M.C.
 - ADD ADDITIONAL PIPE AS NECESSARY TO HAVE MINIMUM OF 25' DEVELOPED LENGTH BEFORE AIR WATER SEPARATOR.
 - BALL VALVE @ +48 A.F.F.
 - NITROGEN GENERATOR SUPPLIED BY OWNER INSTALLED BY CONTRACTOR. M.C. TO PROVIDE ISOLATION VALVE AT OUTLET.
 - NITROGEN STORAGE TANK SUPPLIED BY OWNER INSTALLED BY CONTRACTOR. M.C. TO PROVIDE ISOLATION VALVE AT OUTLET. SET TANK GAUGE AWAY FROM TIRE HANDLING AREA TO AVOID DAMAGE.
 - NITROGEN GENERATOR BY-PASS VALVE NORMALLY CLOSED.



35 TIRE CENTER AIR PIPING
SCALE:

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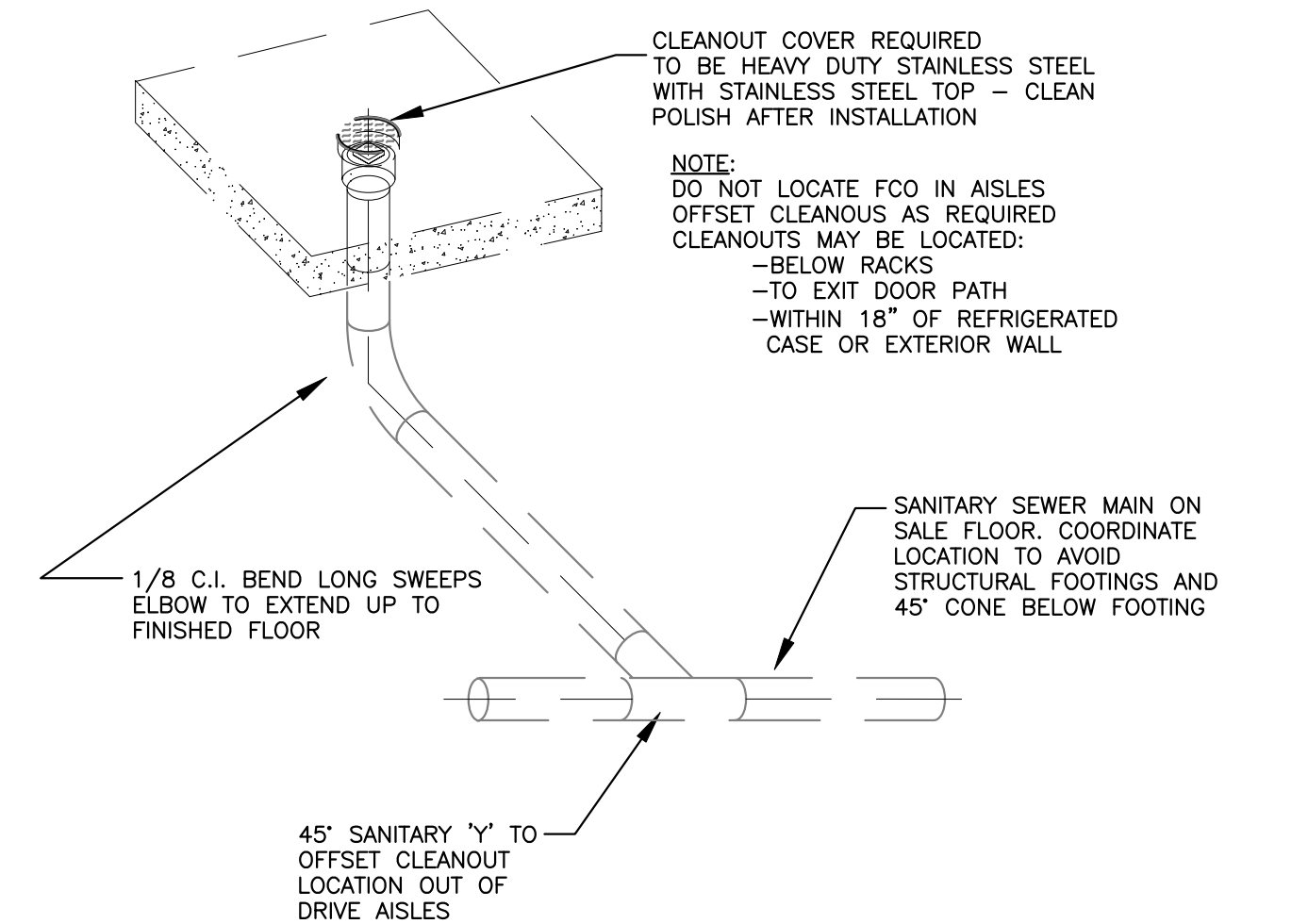
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NEW WAREHOUSE
LEES SUMMIT, MO

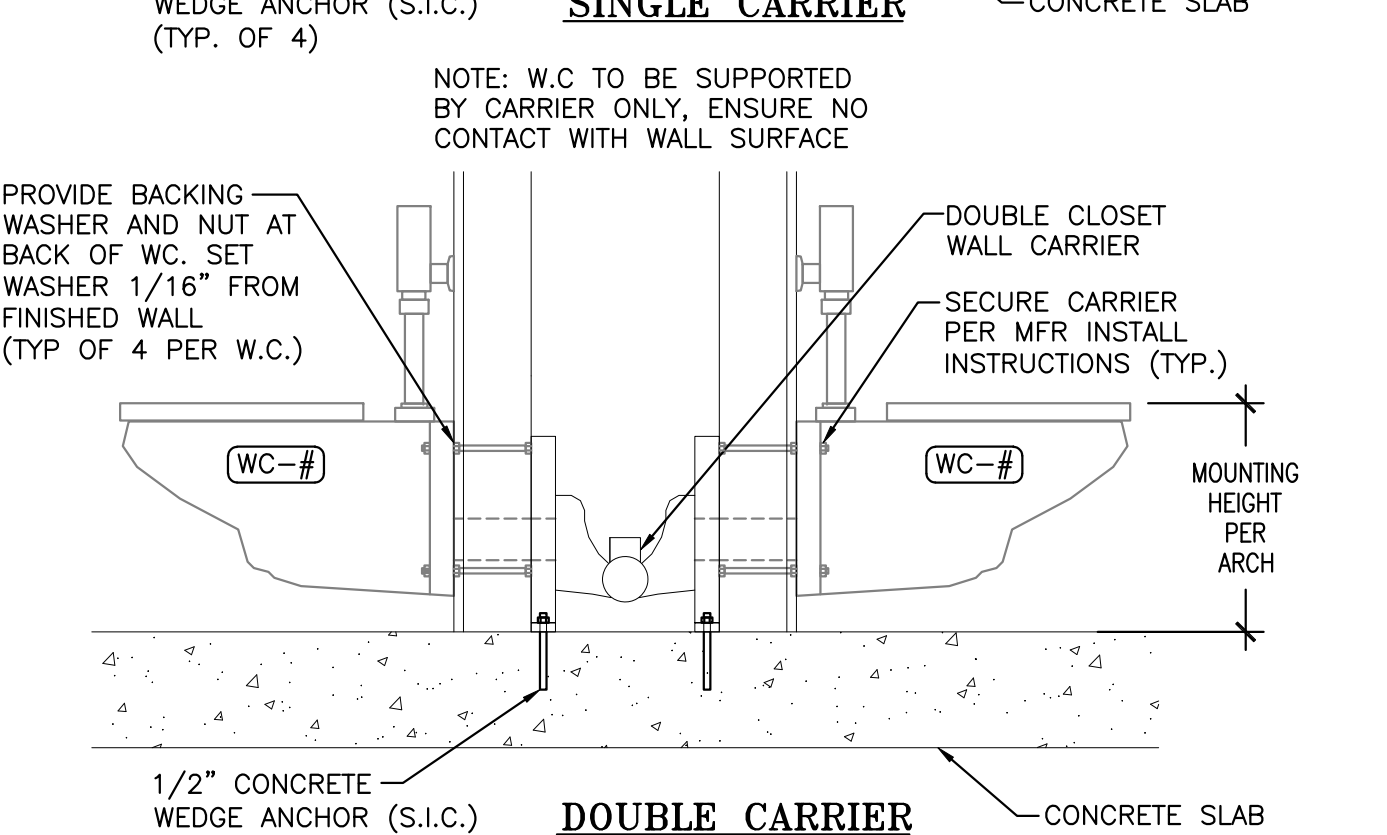
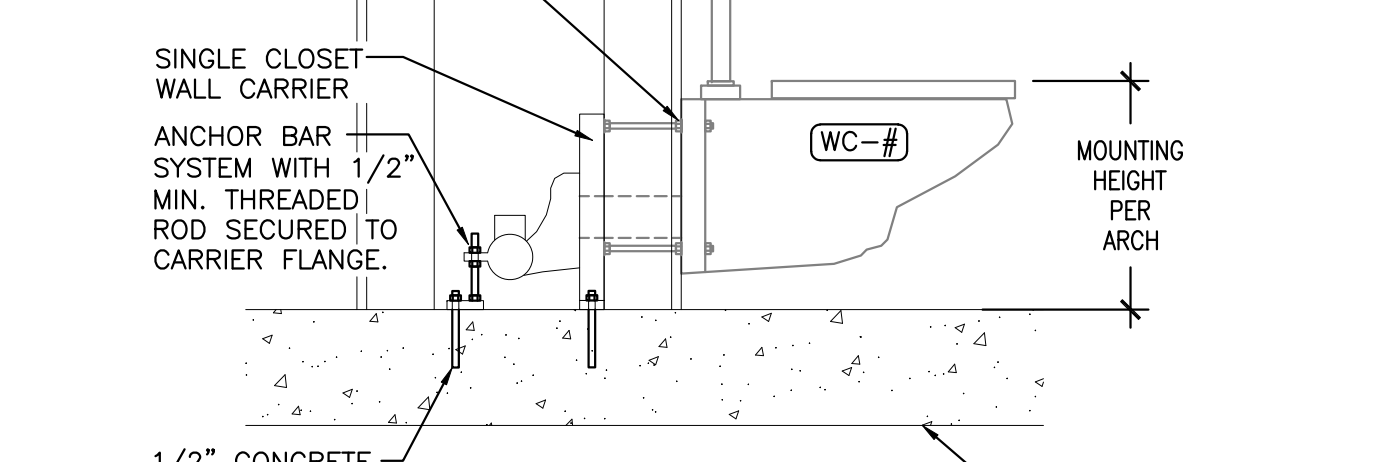
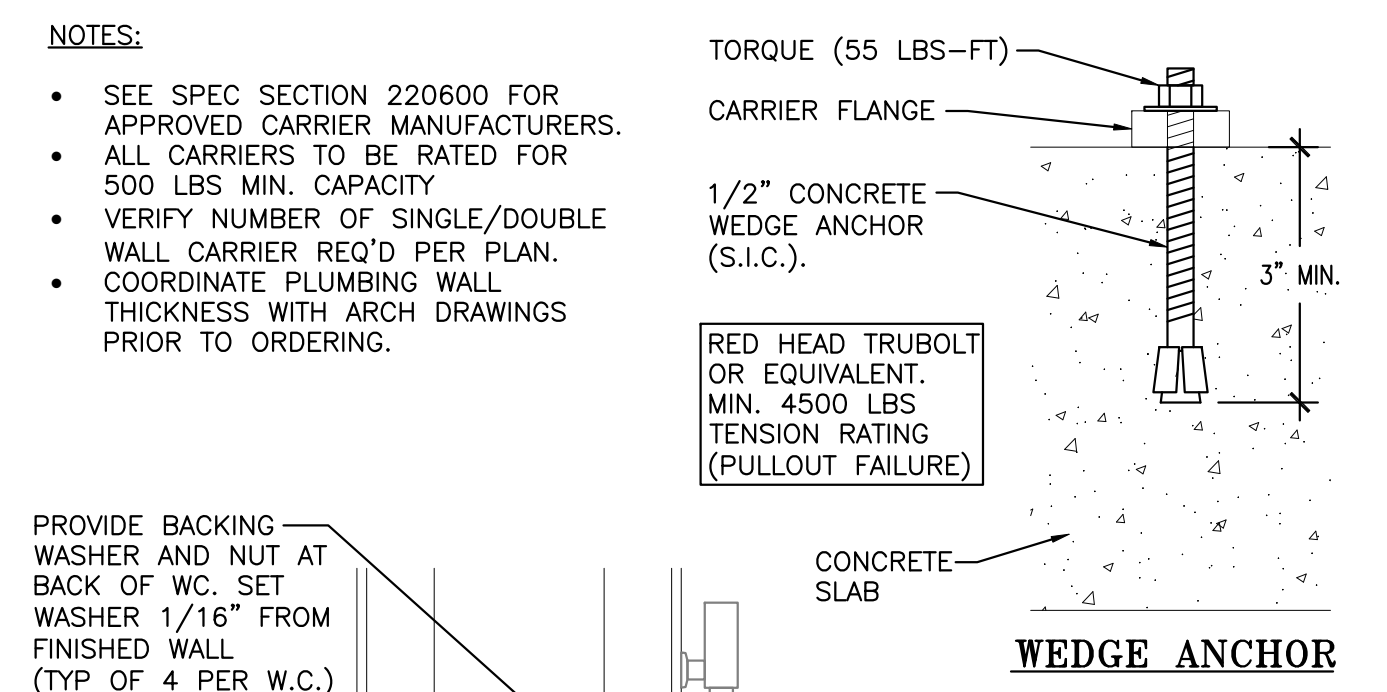


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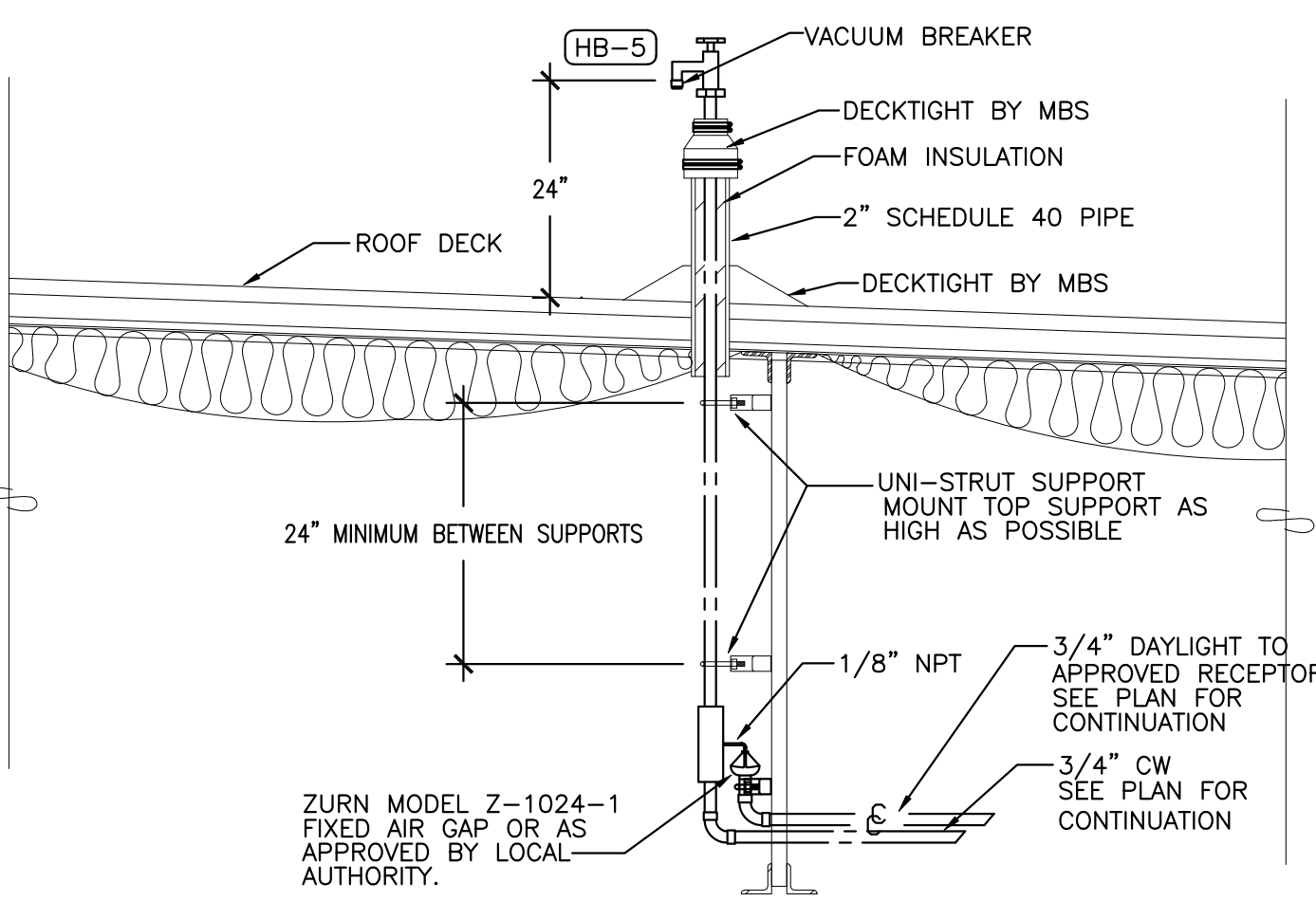
TIRE AIR PIPING AND FRESH
LINE PLUMBING PLAN



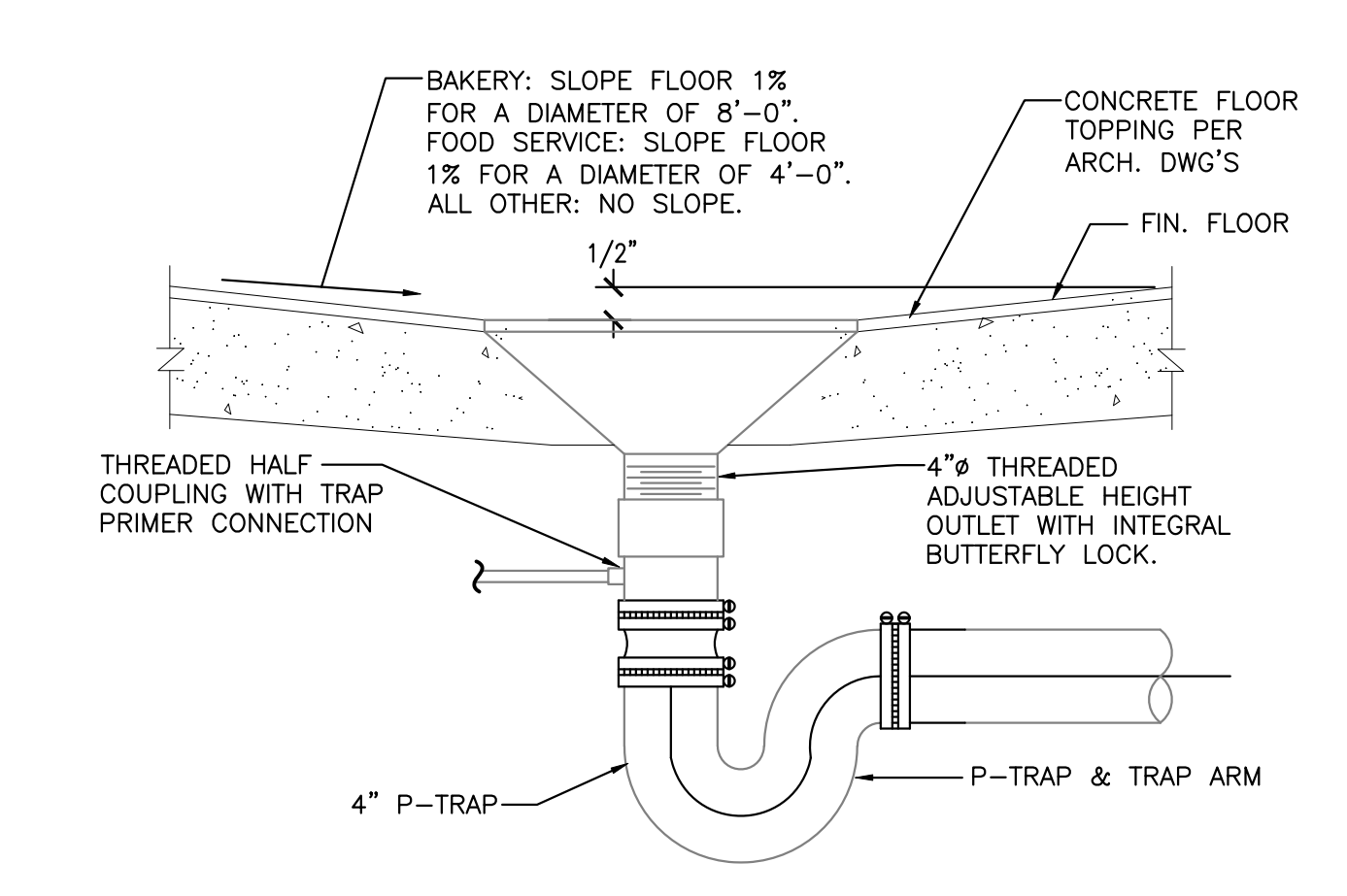
SALES FLOOR CLEAN OUT OFFSET DETAIL 002
SCALE: NONE REV: SI/12-24/24-000



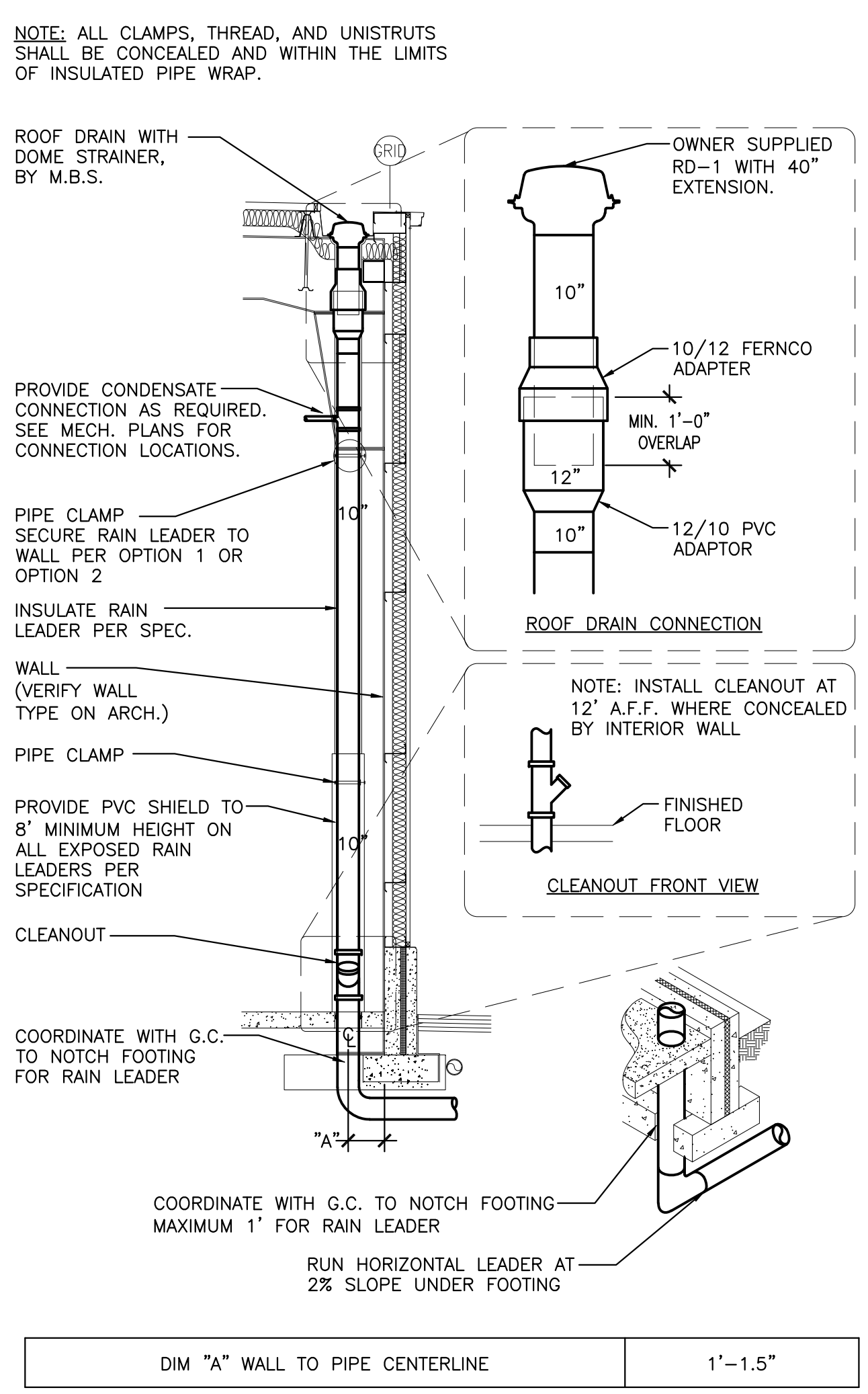
WATER CLOSET CARRIERS 008
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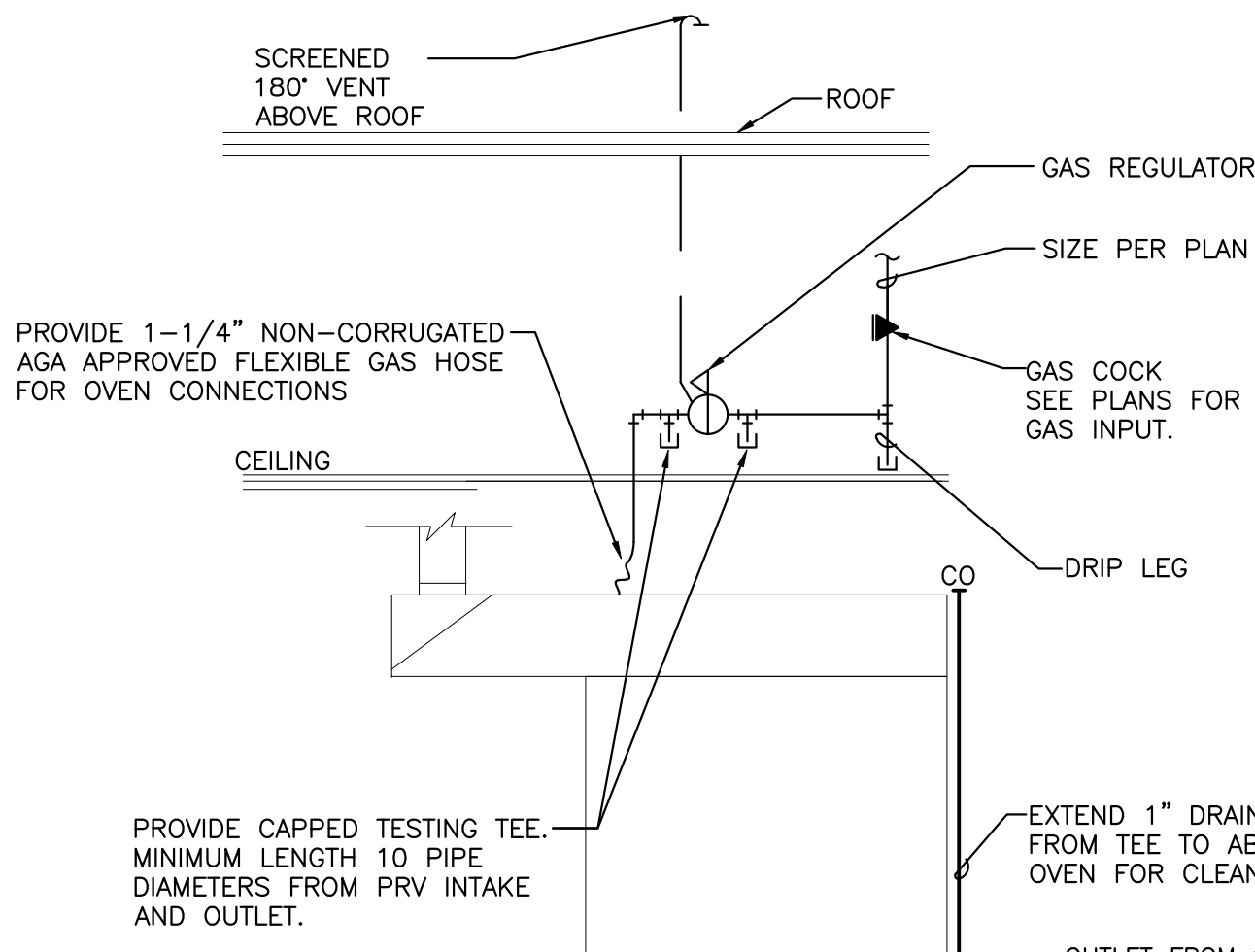
ROOF MOUNTED HOSE BIBB (HB-5) 017
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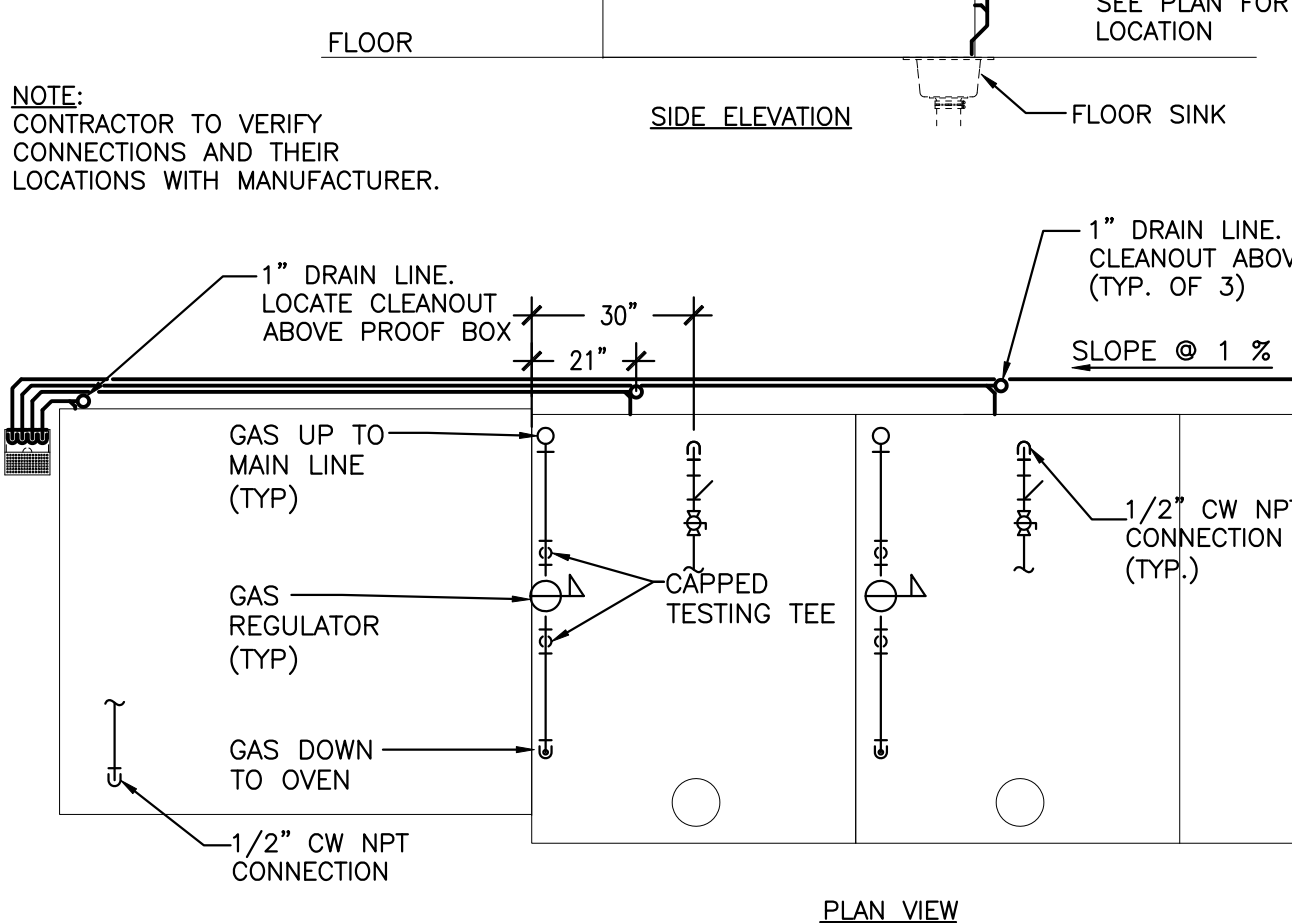
FLOOR DRAIN TYPE D-1 021
SCALE: NONE REV: SI/11-24/24-000



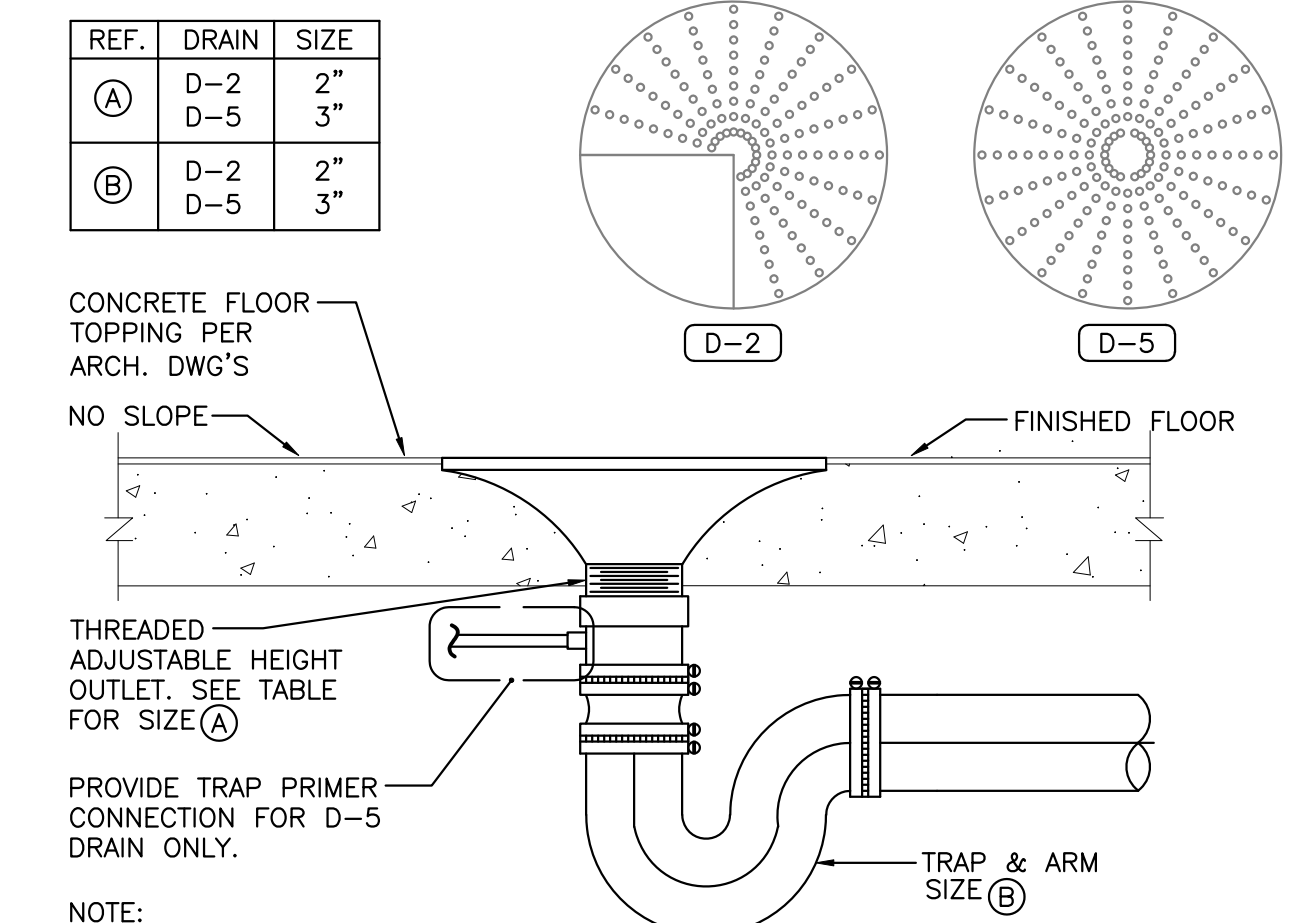
ROOF DRAIN WALL DETAIL 007
SCALE: NONE REV: SI/12-24/Master



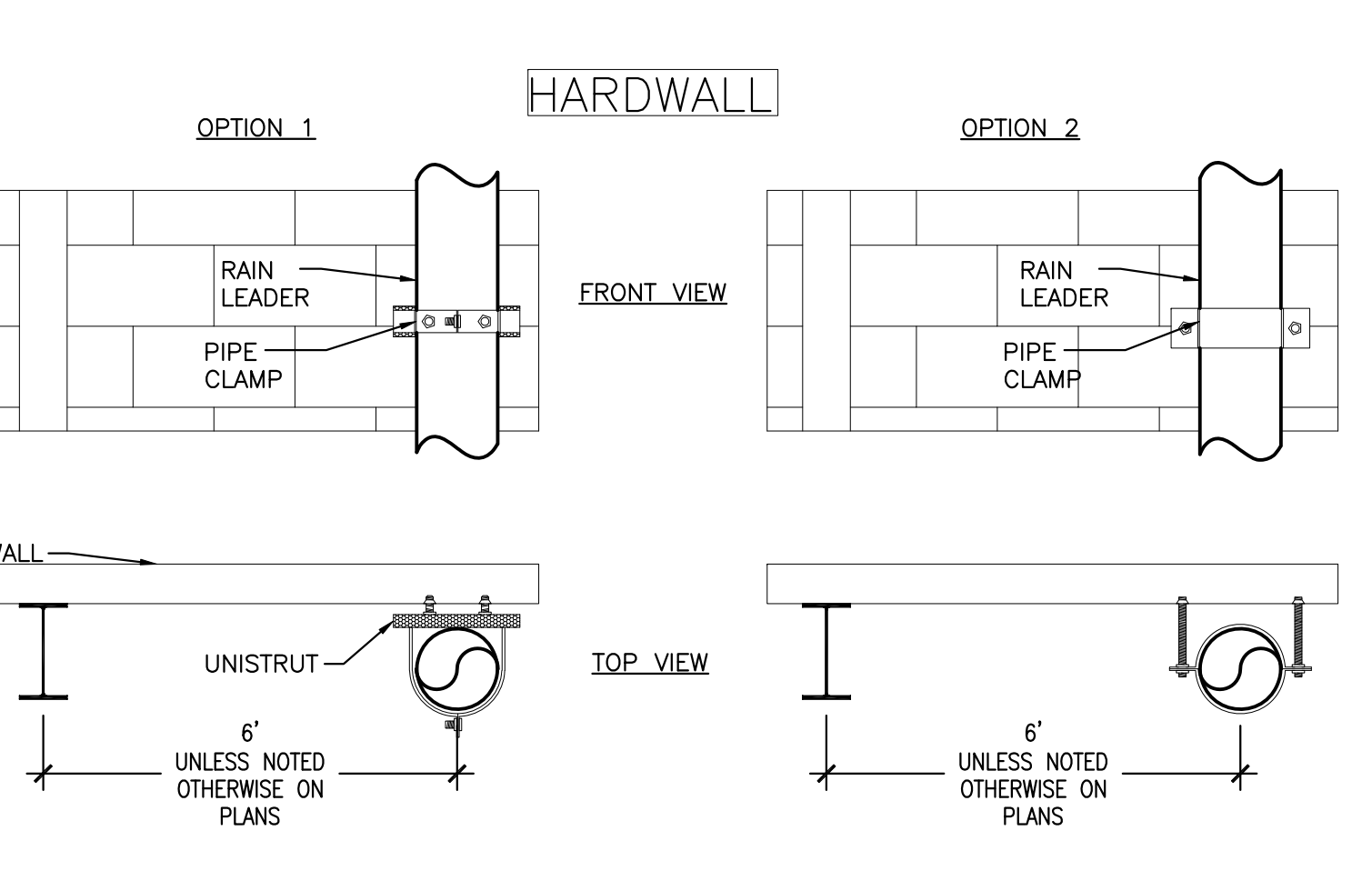
PIZZA OVEN PIPING DETAIL 015
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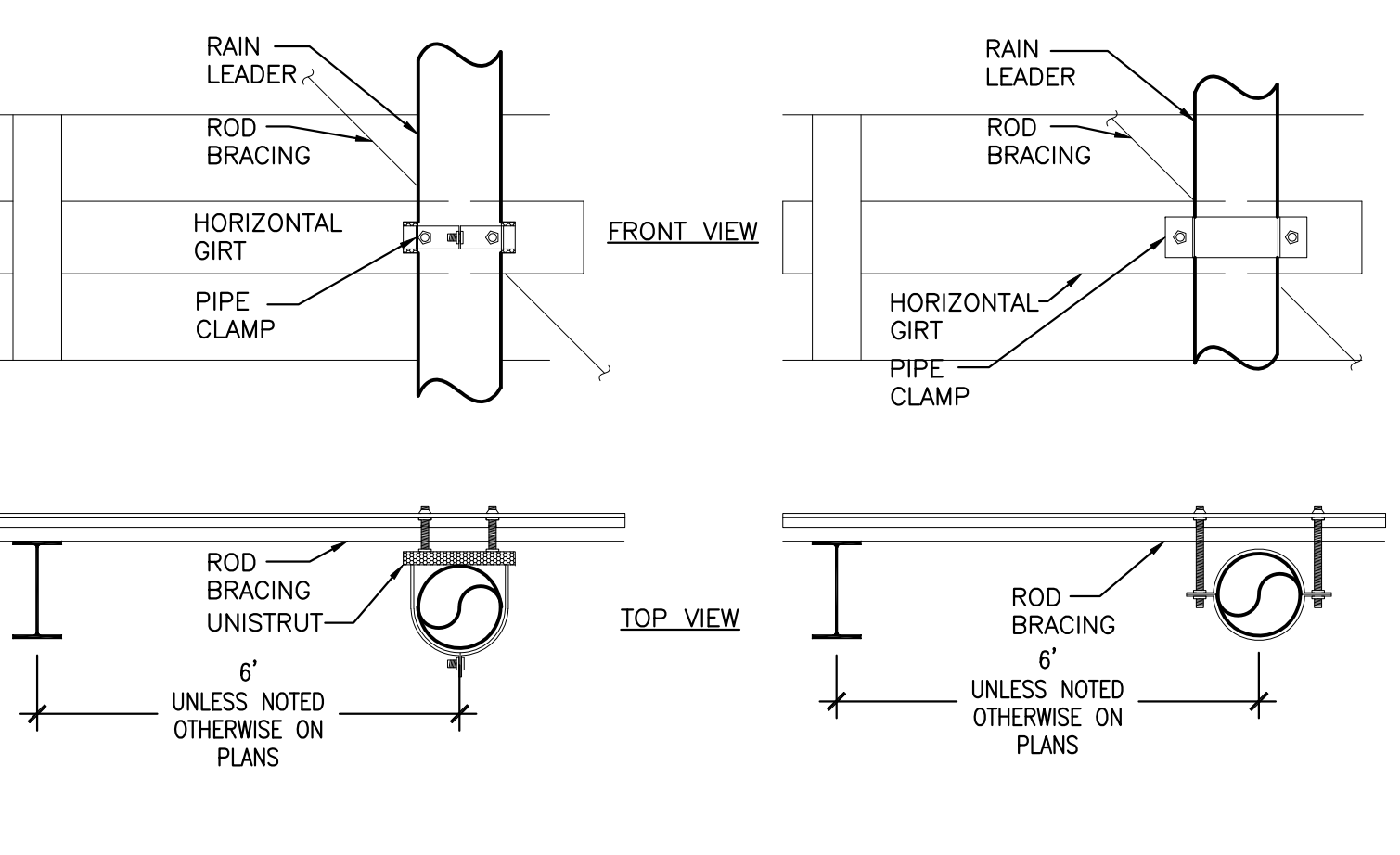
OVEN DETAIL E-7 014
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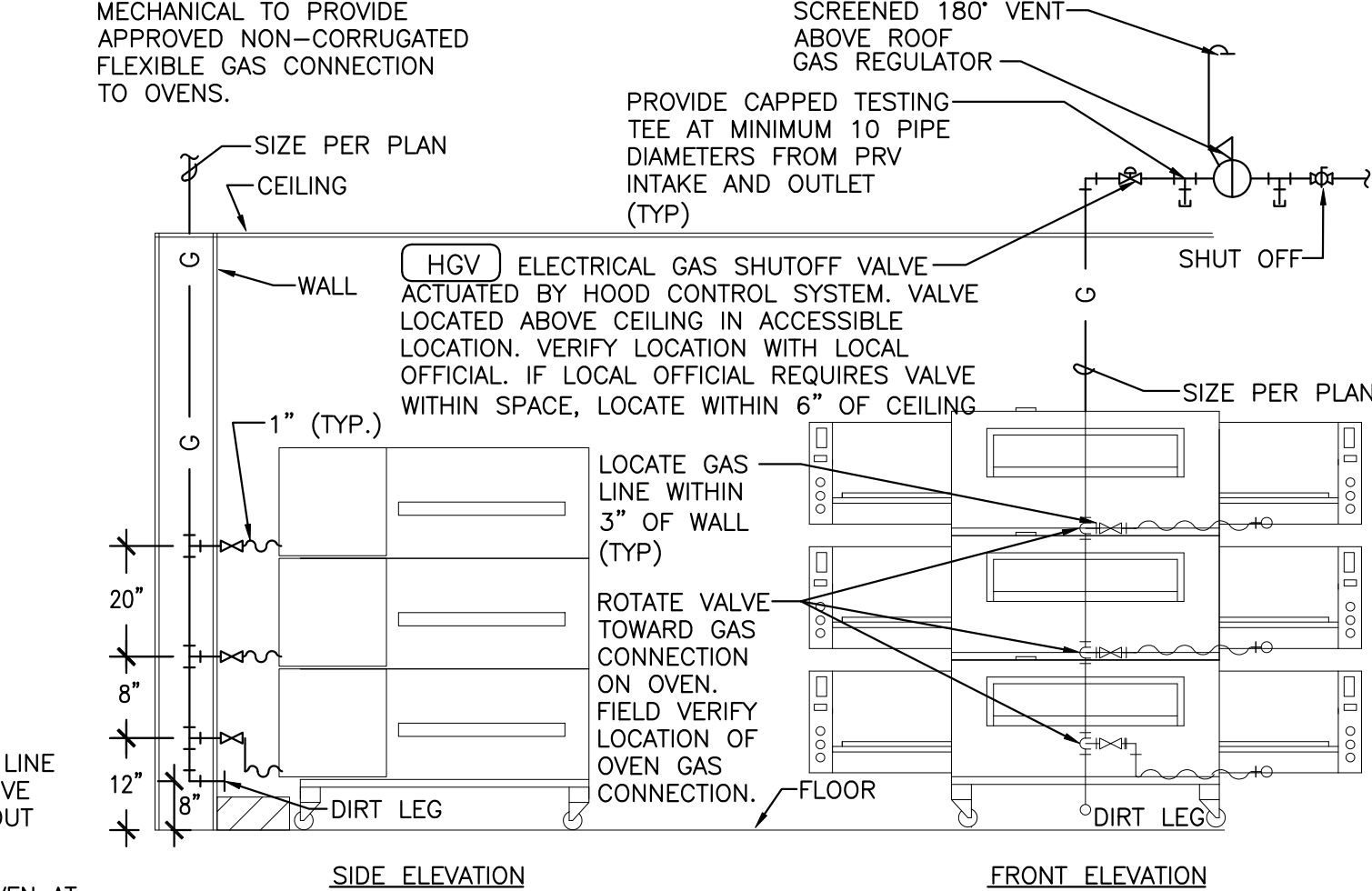
FLOOR DRAIN D-2 & D-5 022
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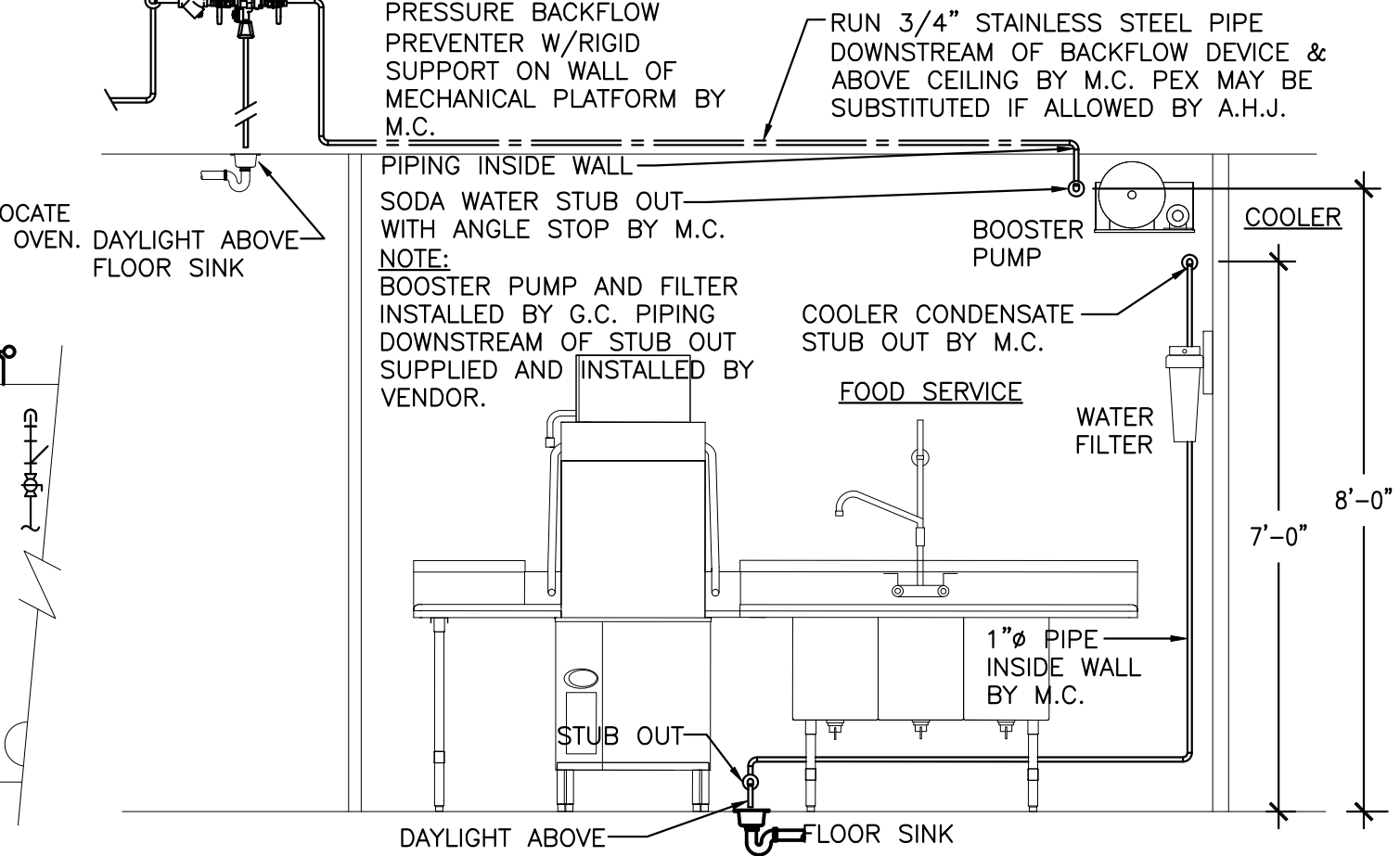
HARDWALL 001
SCALE: NONE REV: SI/11-25/Master



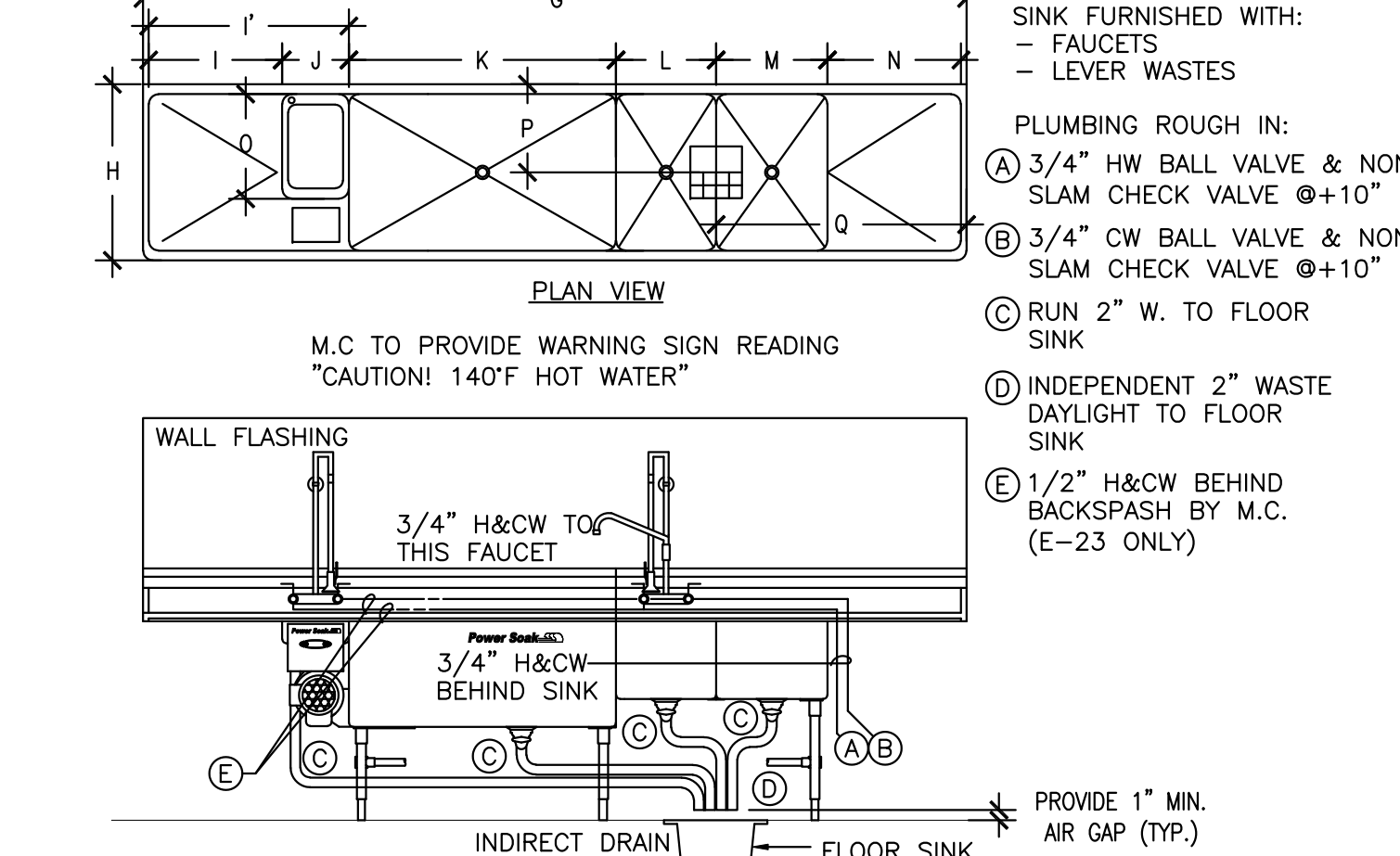
METAL WALL 002
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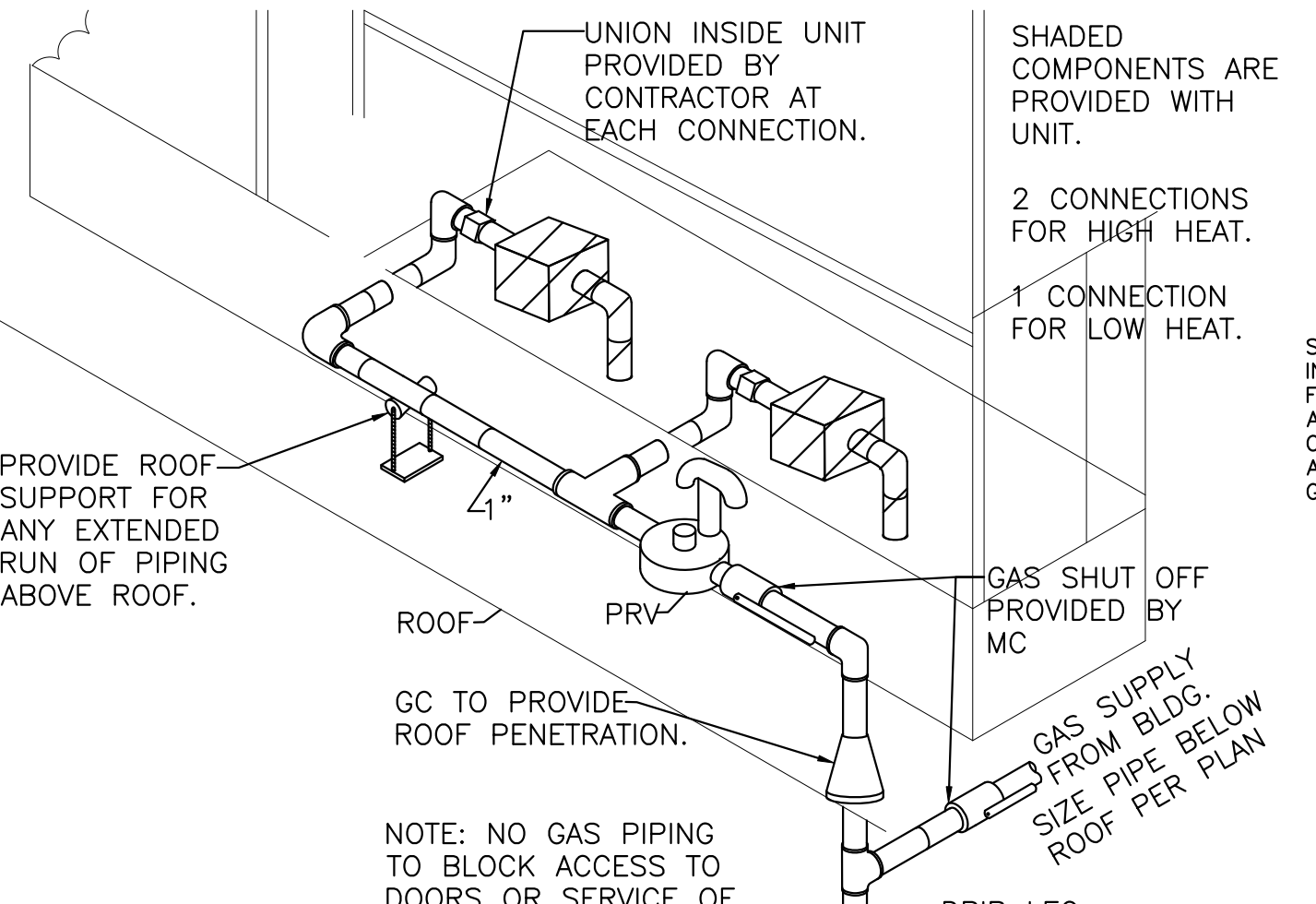
PIZZA OVEN PIPING DETAIL 015
SCALE: NONE REV: SI/10-24/24-000



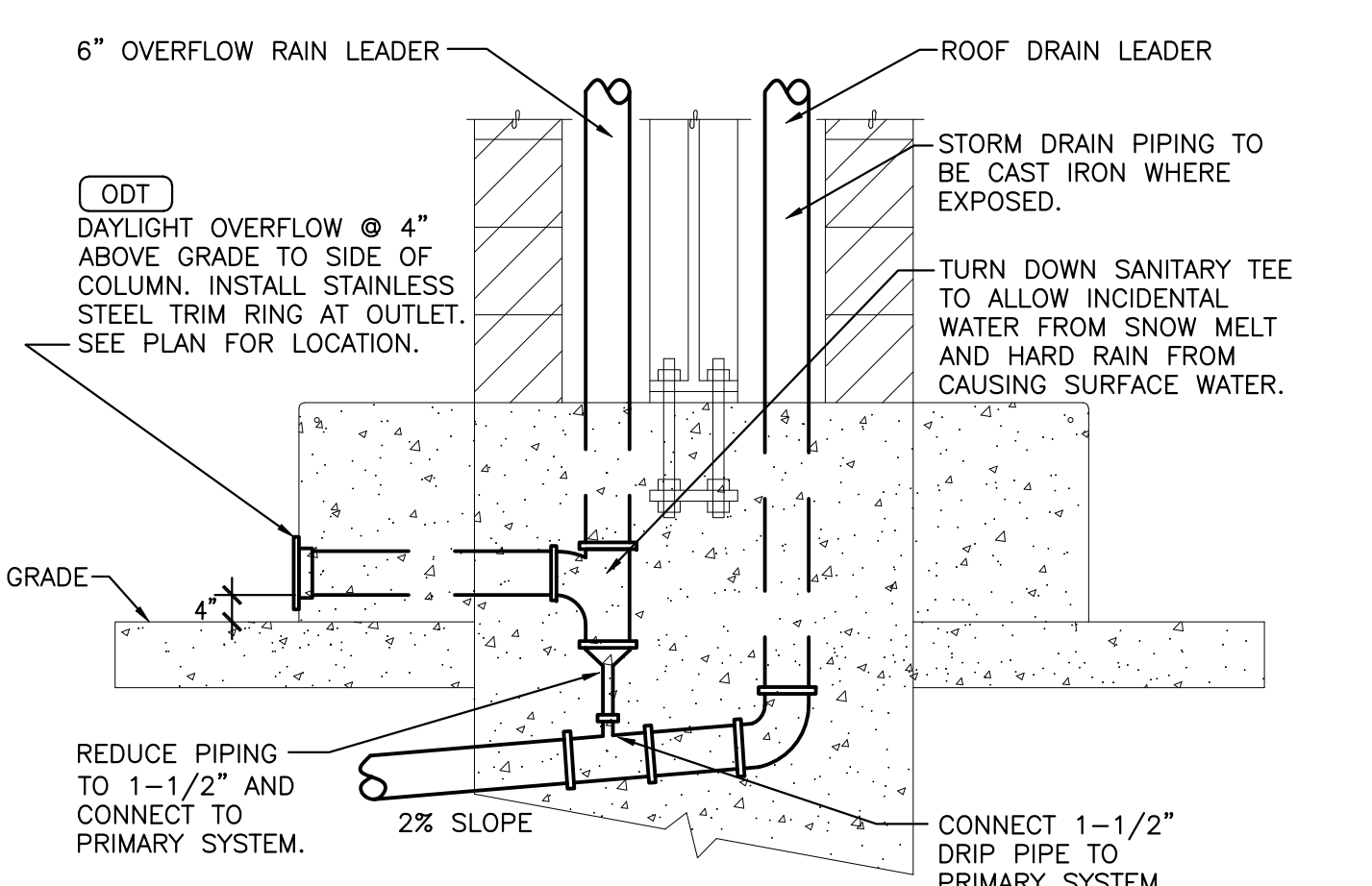
SODA ALCOVE PIPING DETAIL 018
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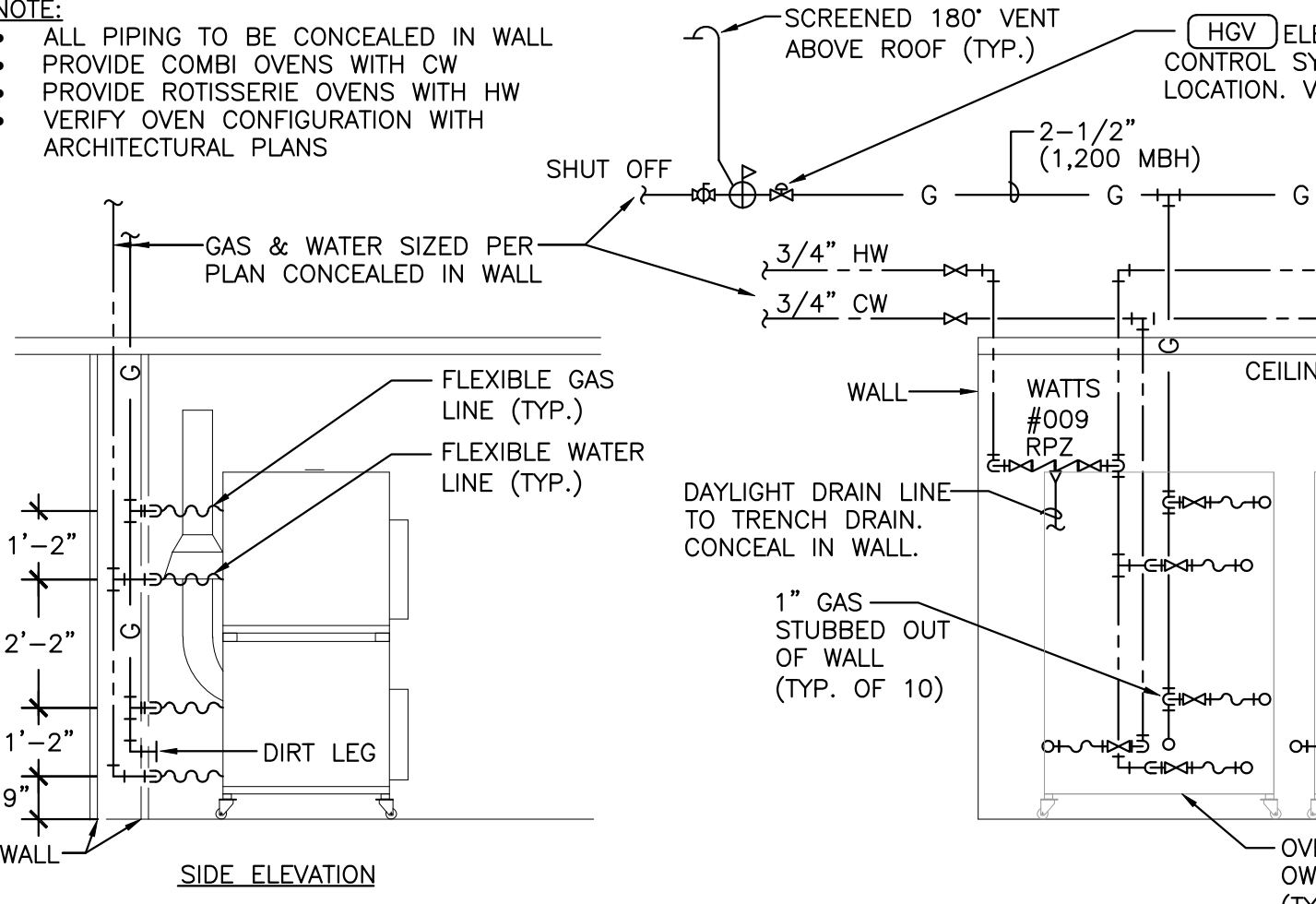
POWER WASH SINK (E-23) 022
SCALE: NONE REV: SI/12-24/Master



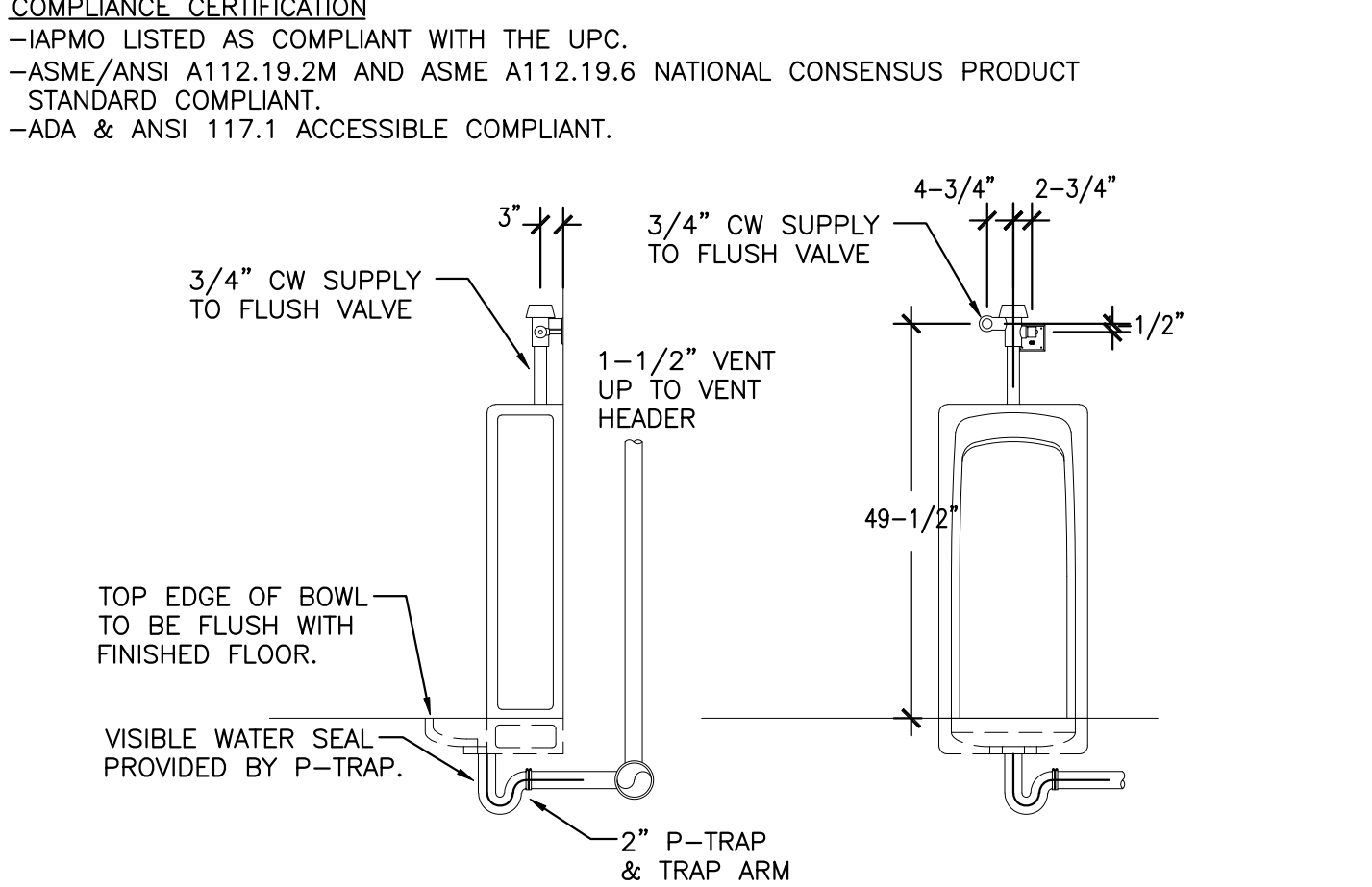
AC GAS PIPING DIAGRAM 011
SCALE: NONE REV: SI/11-25/Master



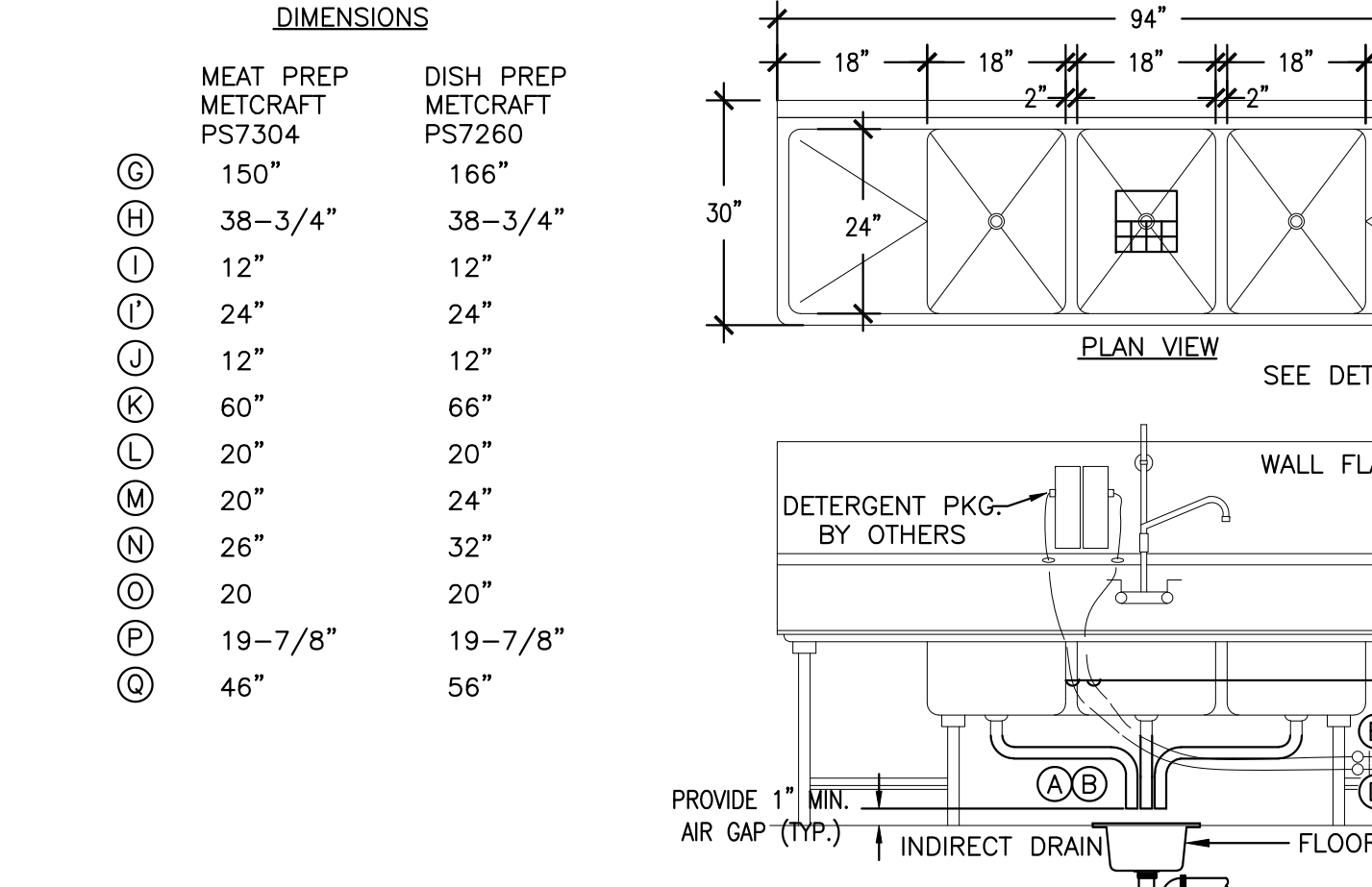
OVERFLOW DRIP PROOFING DETAIL 006
SCALE: NONE REV: SI/10-24/24-000



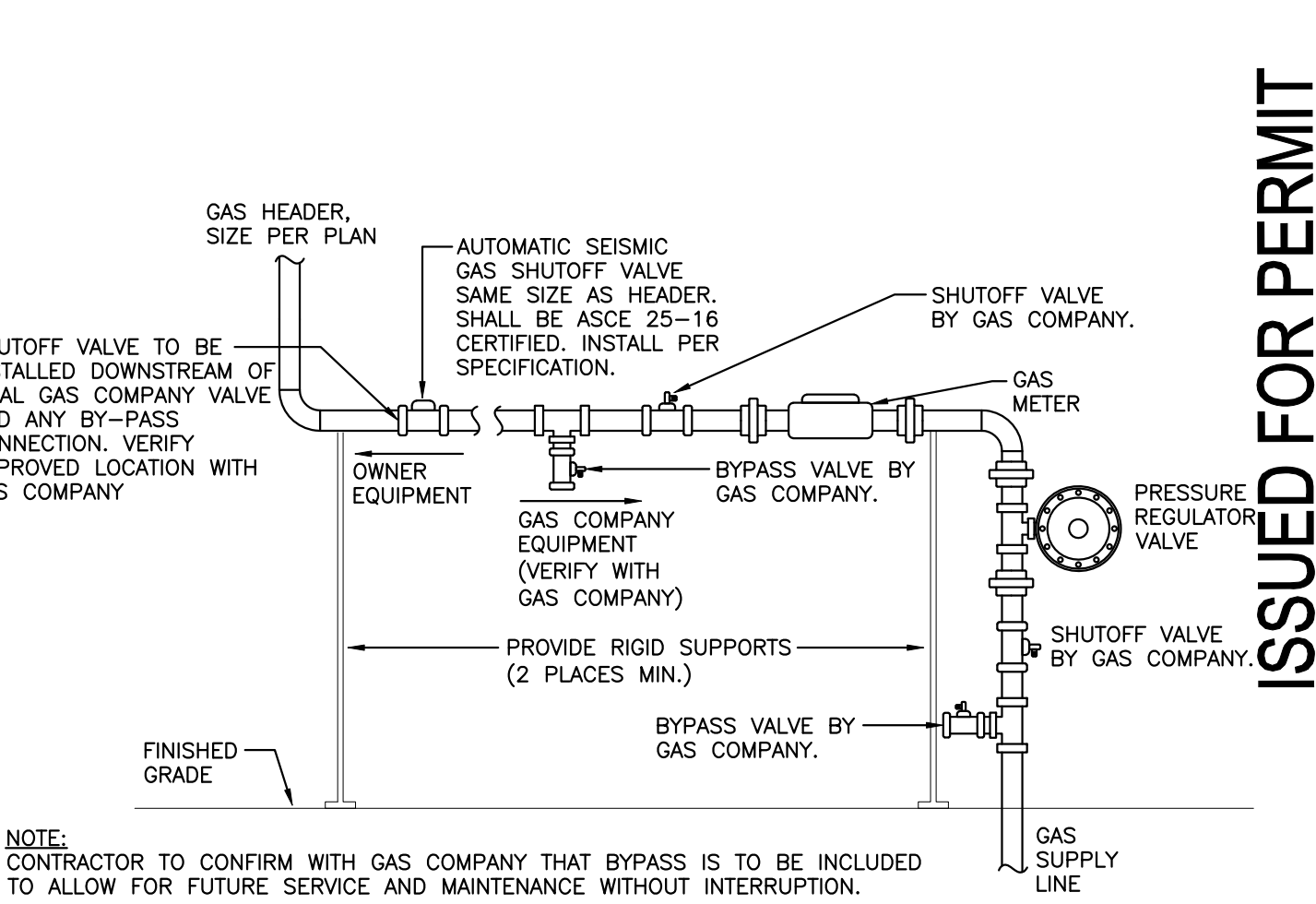
ROTISSERIE OVEN PIPING DETAIL 016
SCALE: NONE REV: SI/11-25/Master



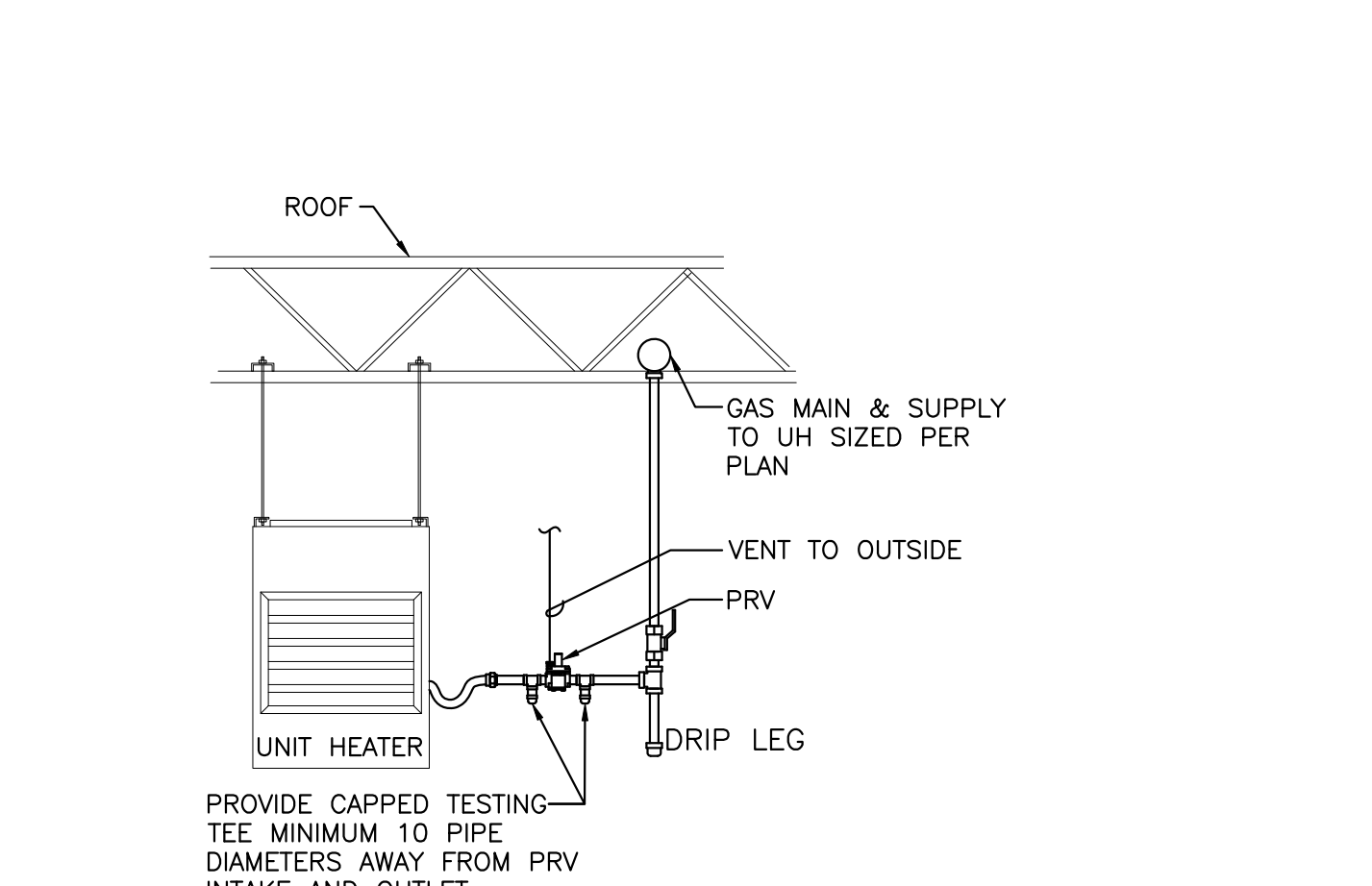
FLOOR MOUNTED URINAL DETAIL 019
SCALE: NONE REV: SI/10-24/24-000



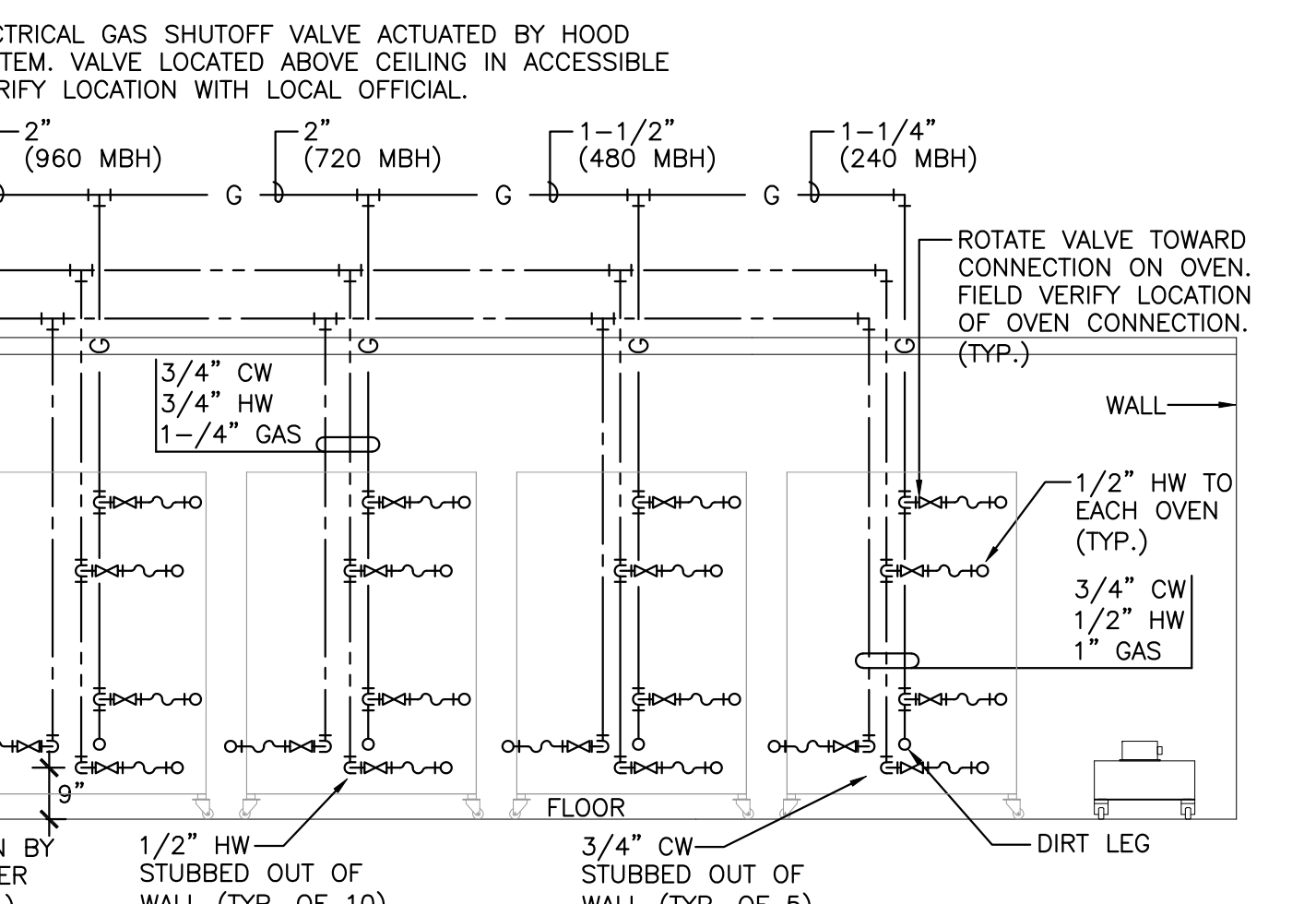
TRIPLE COMPARTMENT SINK (E-18) 024
SCALE: NONE REV: SI/10-24/24-000



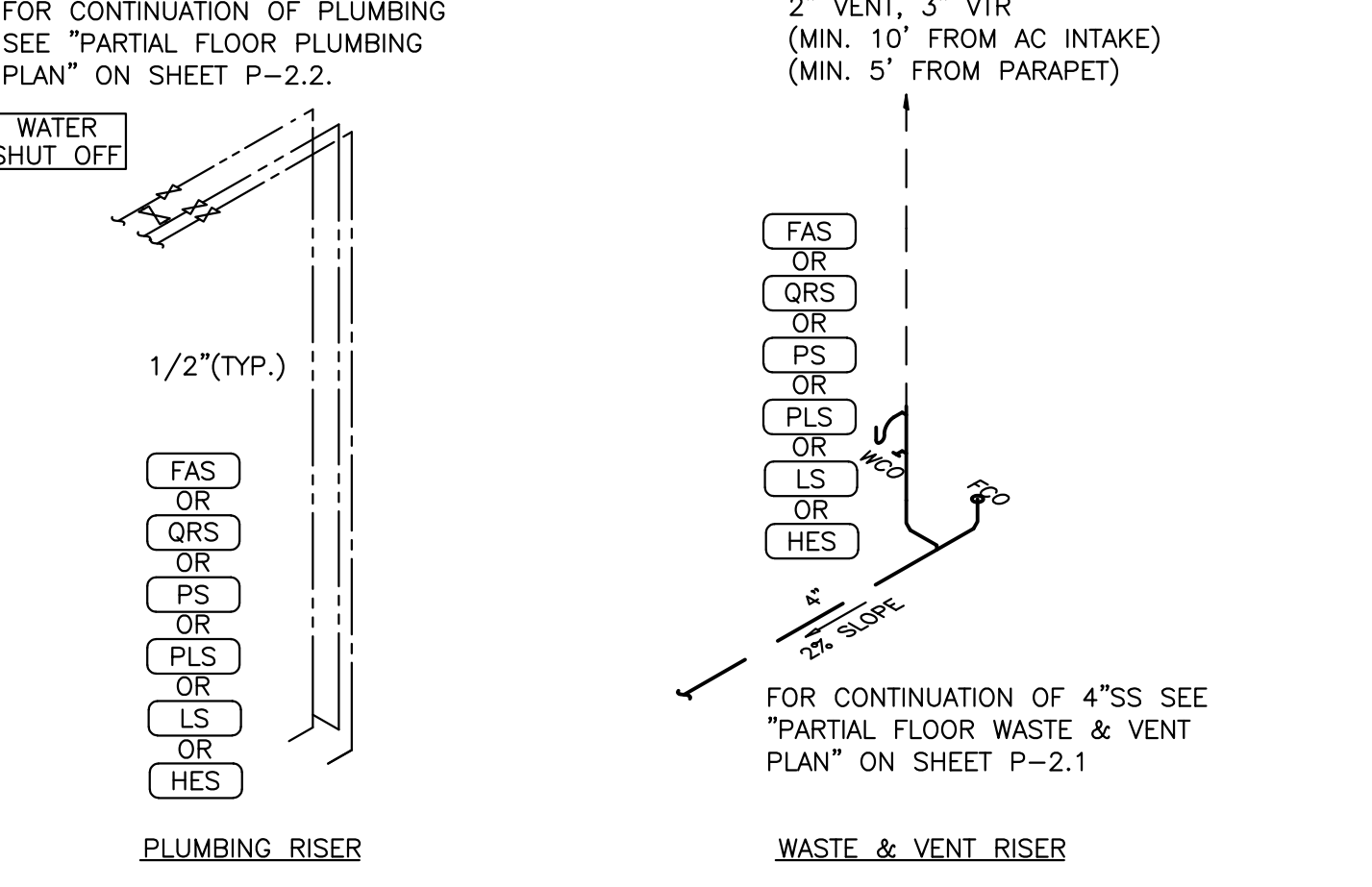
AUTOMATIC GAS SEISMIC SHUTOFF DETAIL 012
SCALE: NONE REV: SI/11-24/24-000



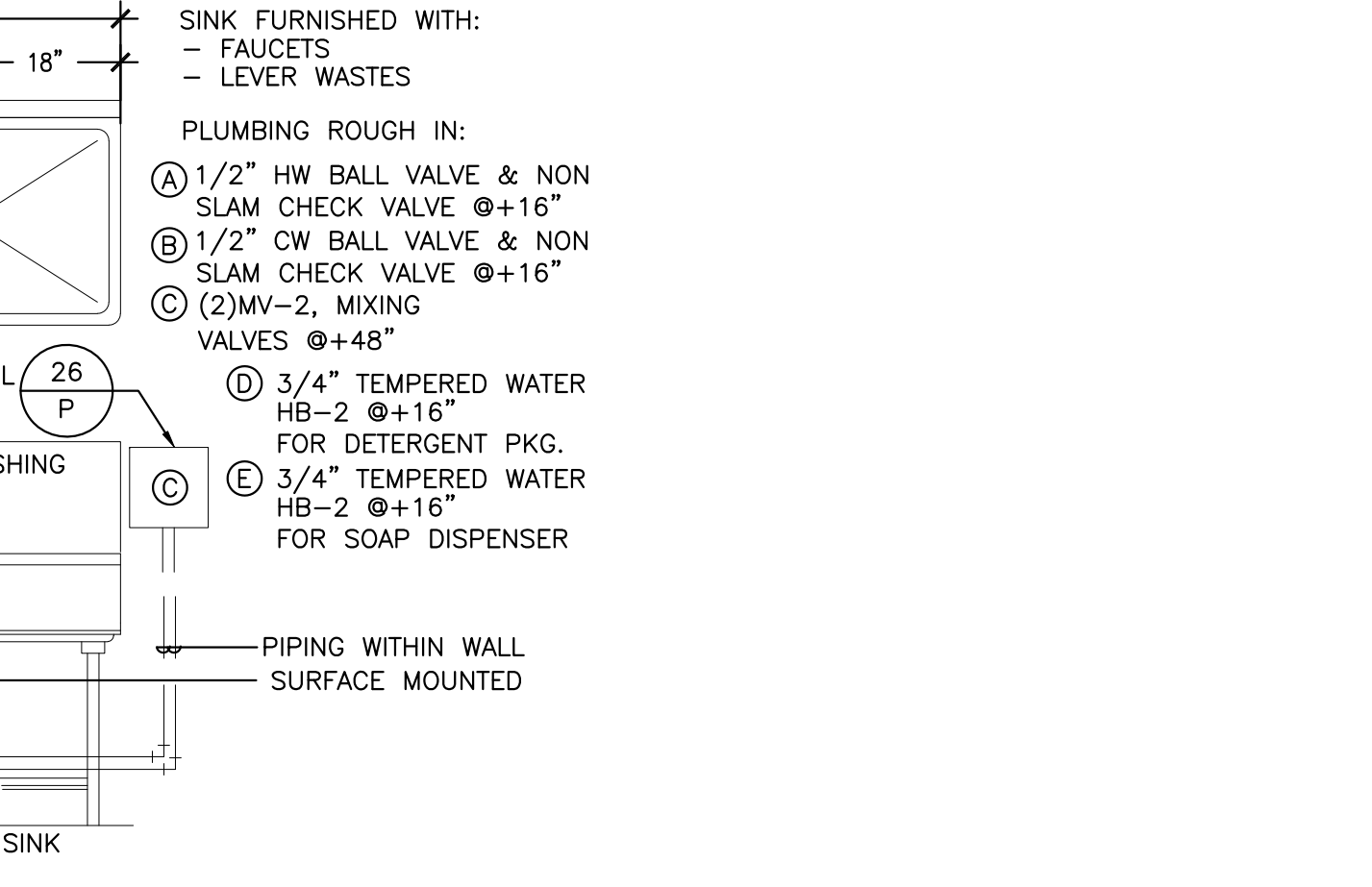
UNIT HEATER GAS PIPING DIAGRAM 013
SCALE: NONE REV: SI/10-24/24-000



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



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



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

STATE OF MISSOURI
PAAL K. RYAN
NUMBER
PE-2024036519
12/23/2025

PROFESSIONAL ENGINEER

ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE DESCRIPTION
11/26/25 ISSUED FOR QA
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RENTON, WA 98057
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NEW WAREHOUSE
LEES SUMMIT, MO

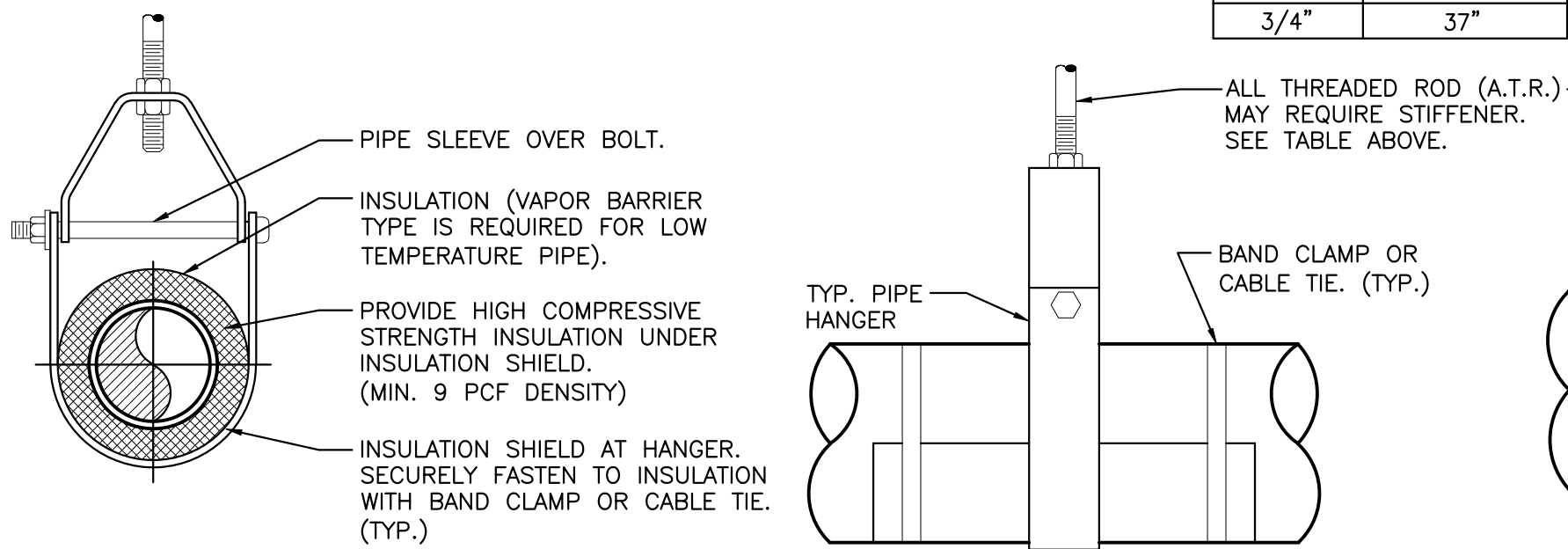
COSTCO WHOLESALE

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

PLUMBING DETAILS

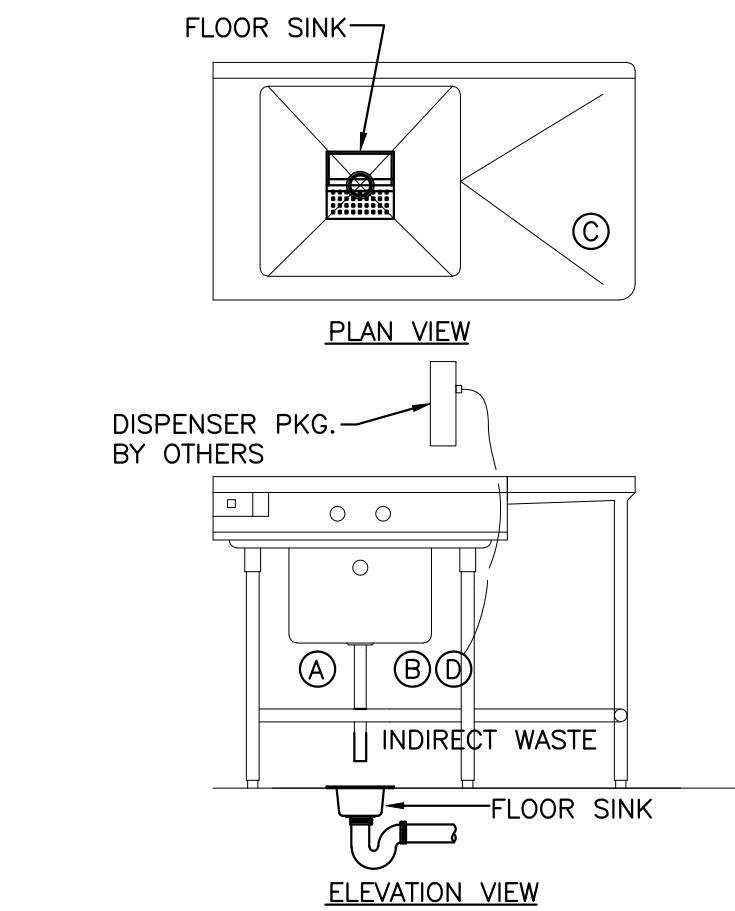
P-4.1

NOTE:
THRUST BLOCKS TO PROVIDE RESTRAINT TO
LIMIT DOMESTIC WATER PIPE MOVEMENT TO
LESS THAN 1" DUE TO FIXTURE OPERATIONS.



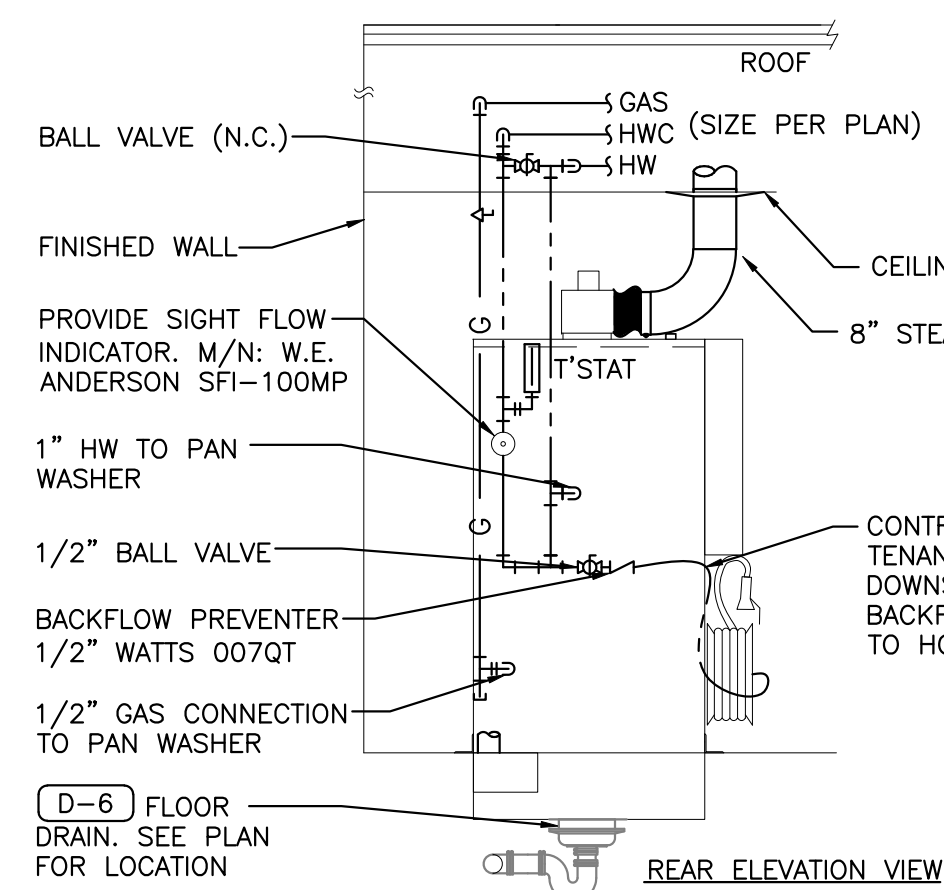
WATER PIPING HANGER / THRUST BLOCK DETAIL

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



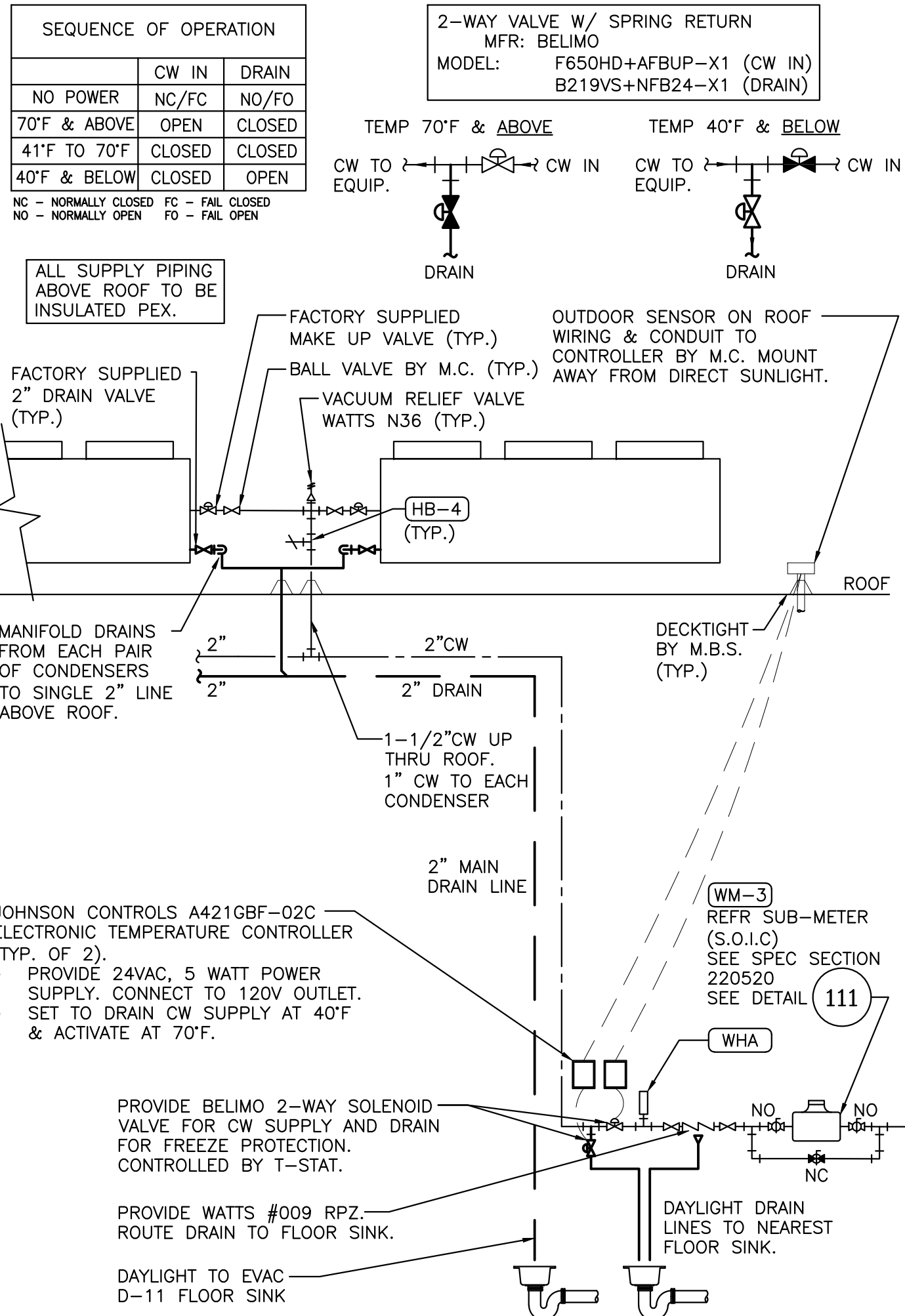
ONE COMP. SINK (E-15)

SCALE: NONE REV: SI/11-25/Master



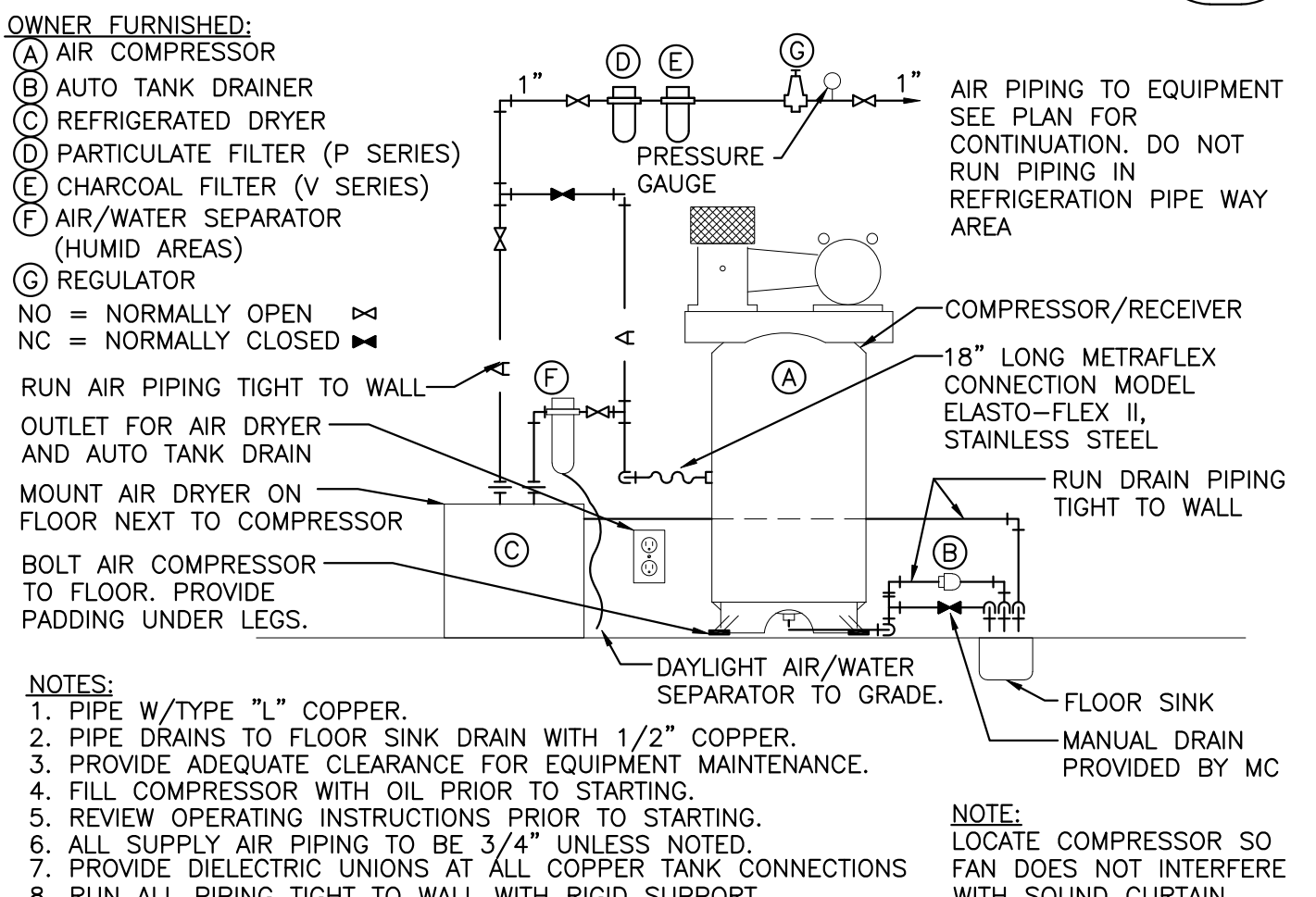
RACK WASHER (E-6)

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



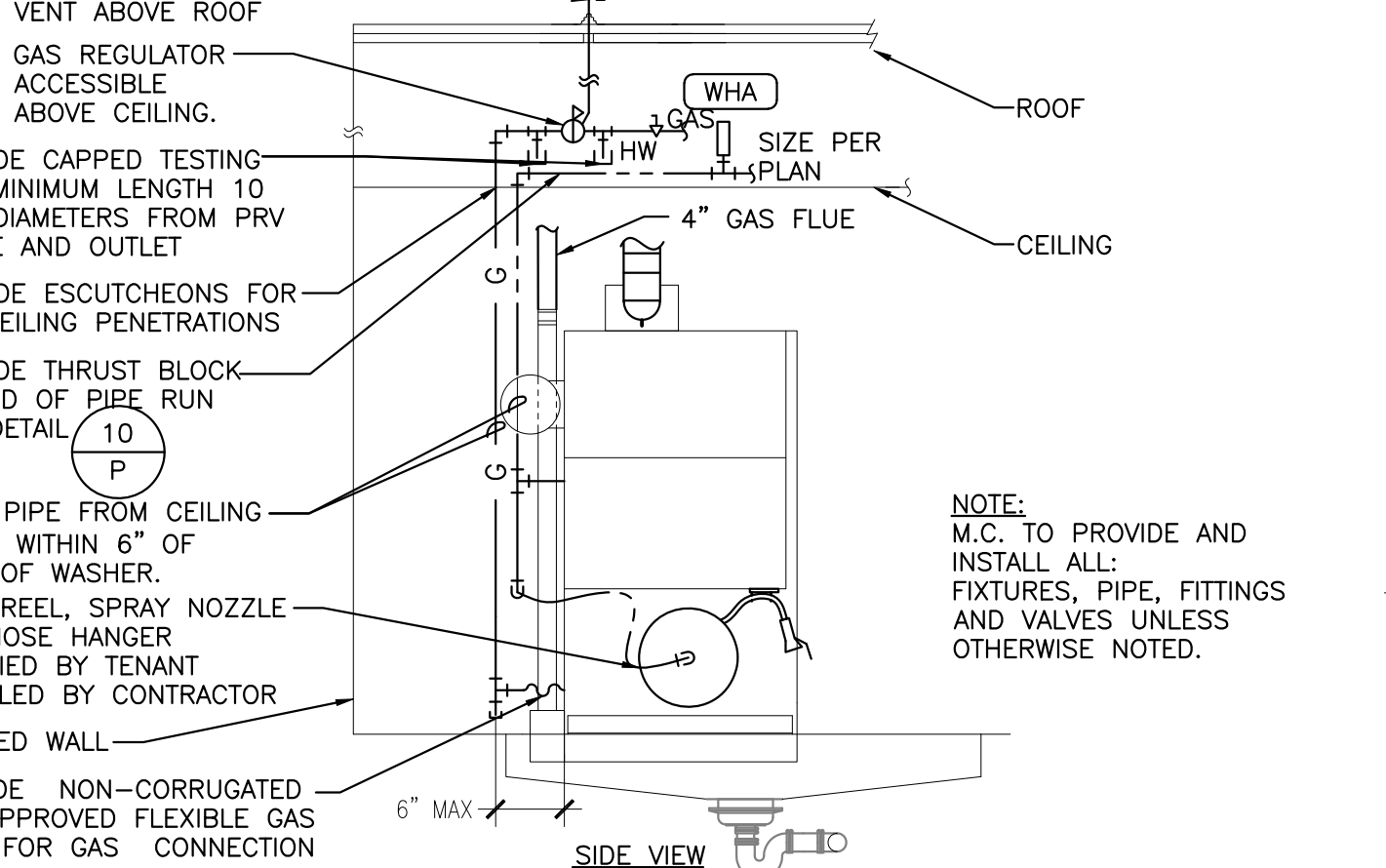
WATER COOLED CONDENSER PIPING

SCALE: NONE REV: JV/03-25/24-926



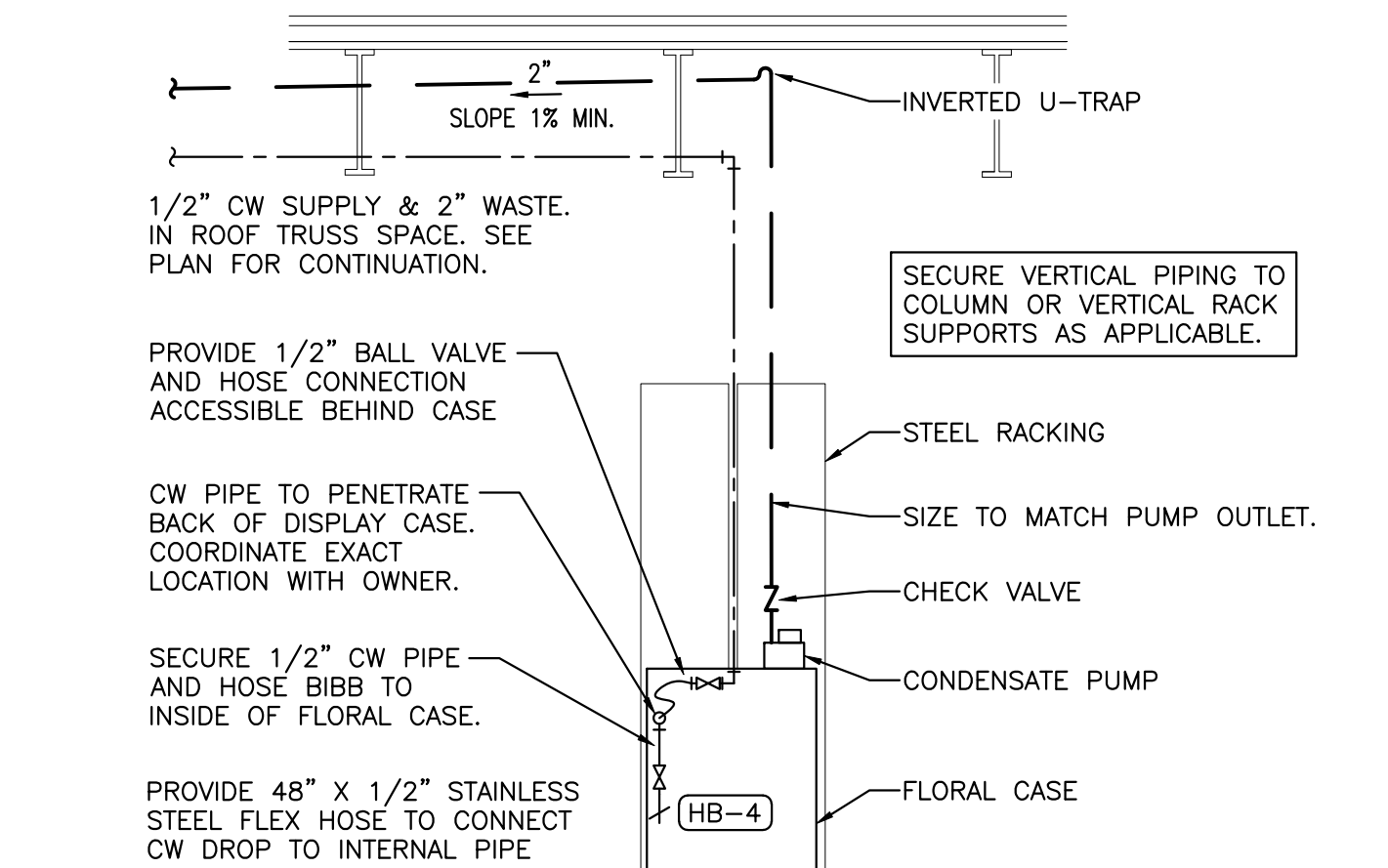
BAKERY AIR COMPRESSOR (E-3)

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



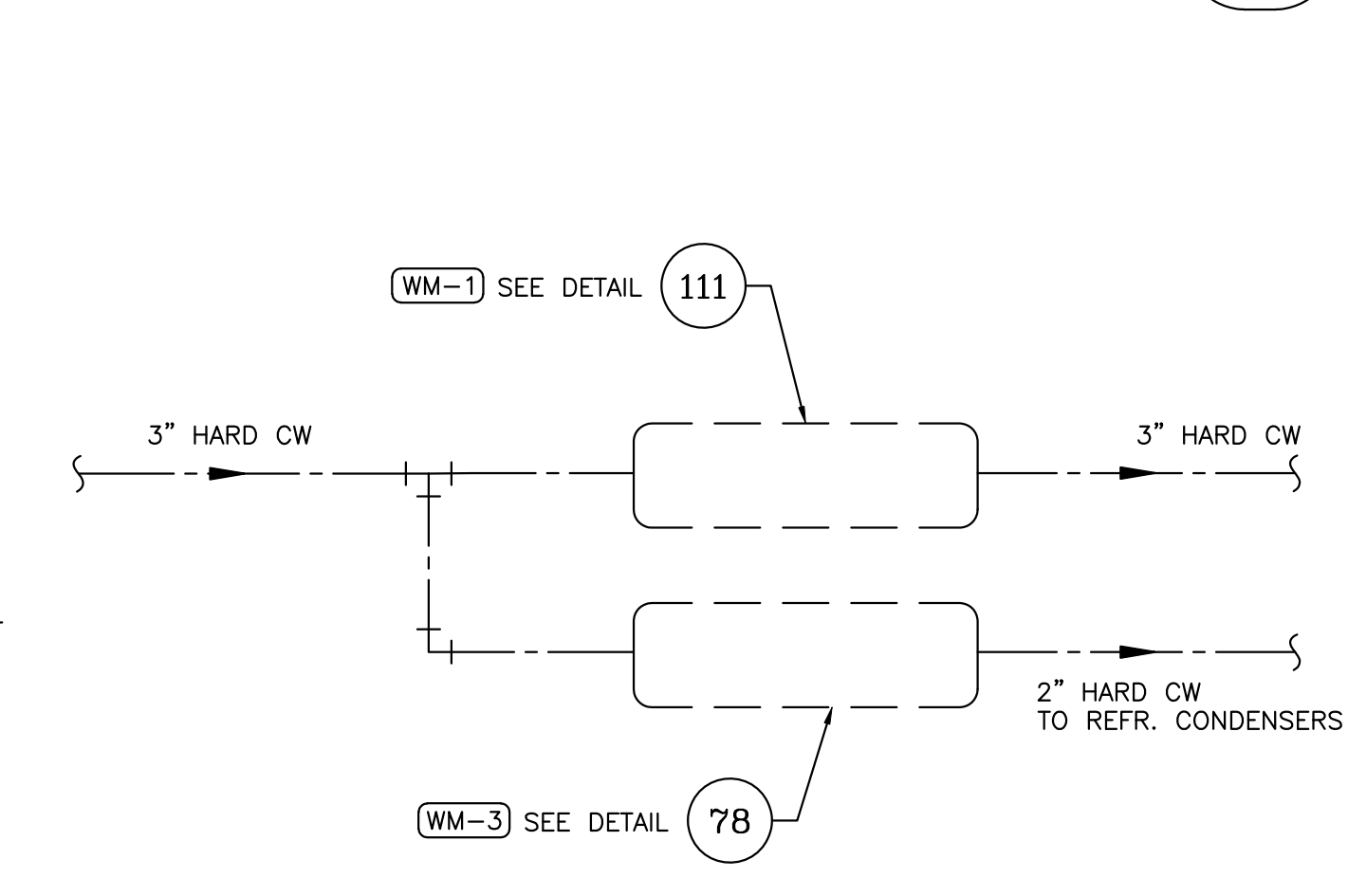
POWER SOAK SINK (E-27)

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



FLORAL WATER SUPPLY

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

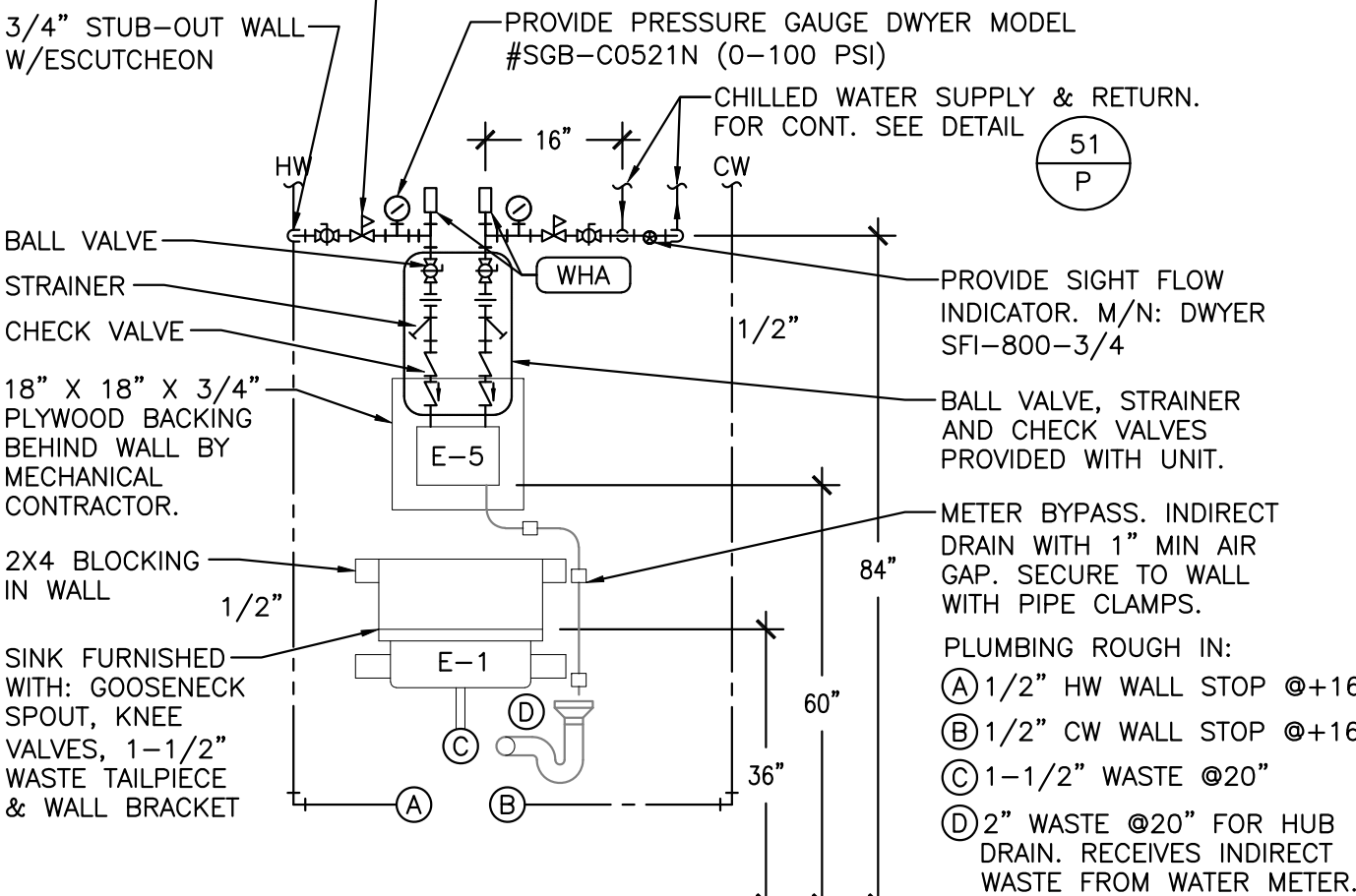


DOMESTIC/REFR. SUB METER DETAIL

SCALE: NONE REV:

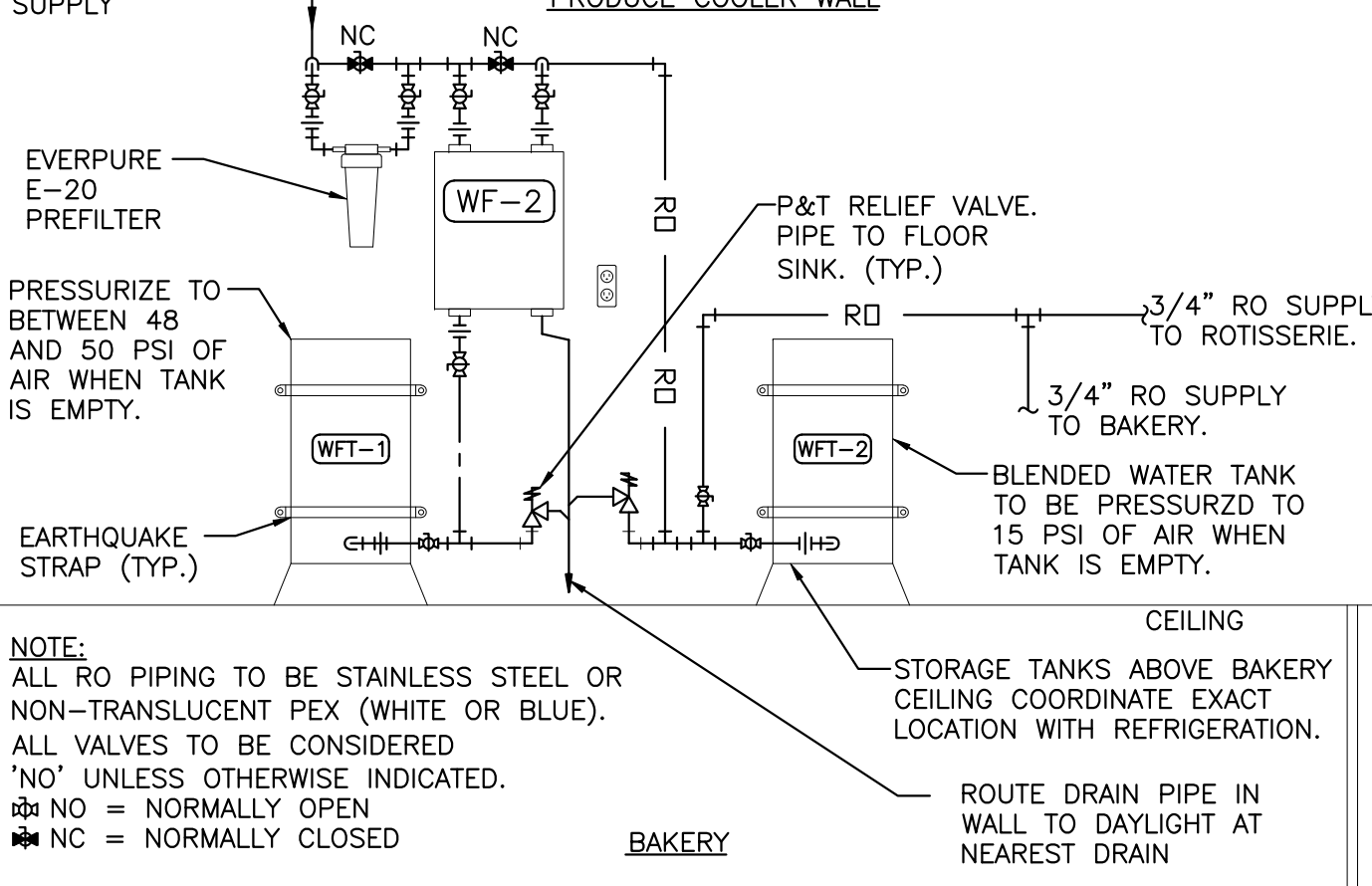
POWER SOAK SINK (E-27)

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



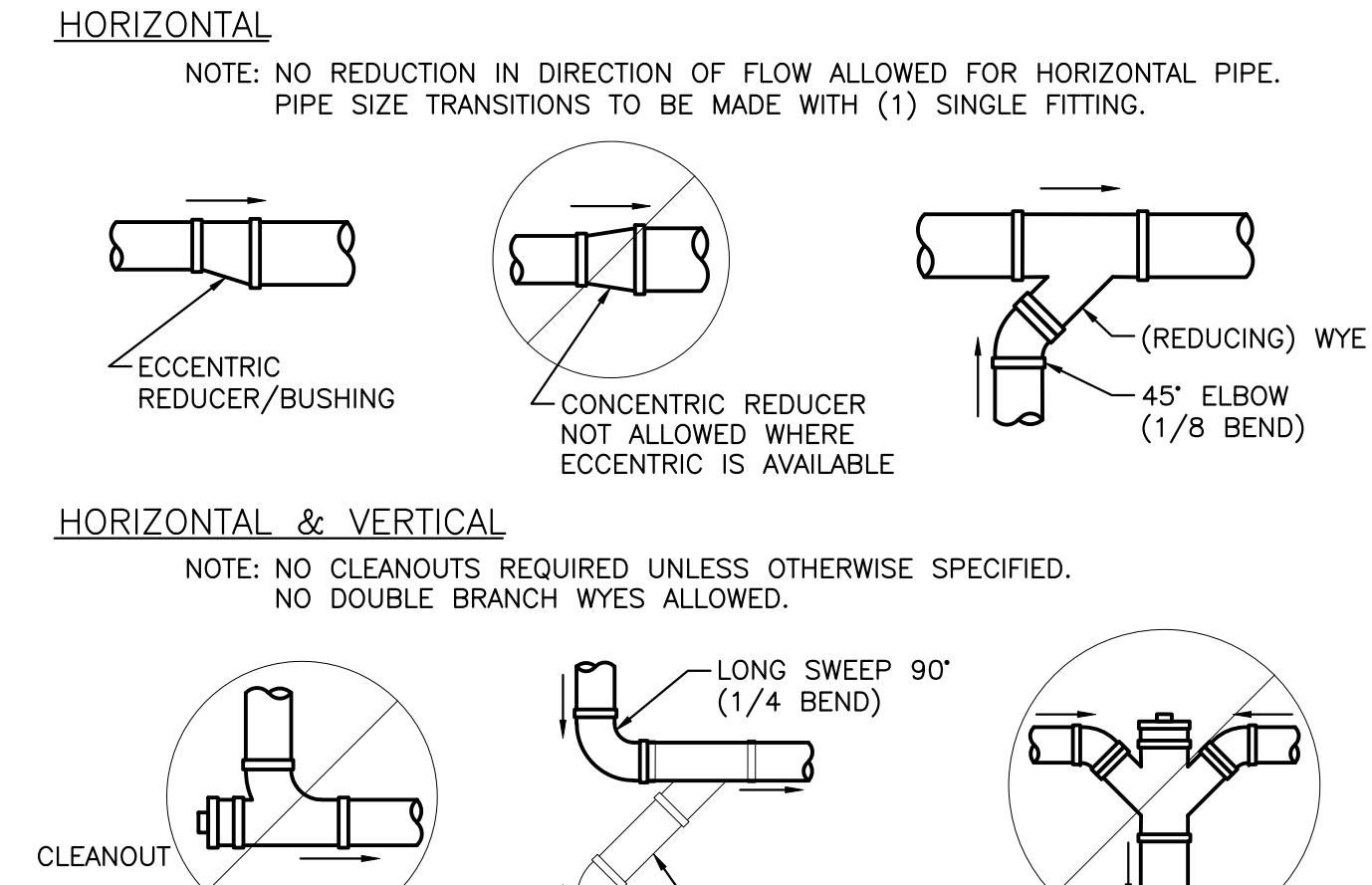
WATER METER E-5/ HAND SINK E-1

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



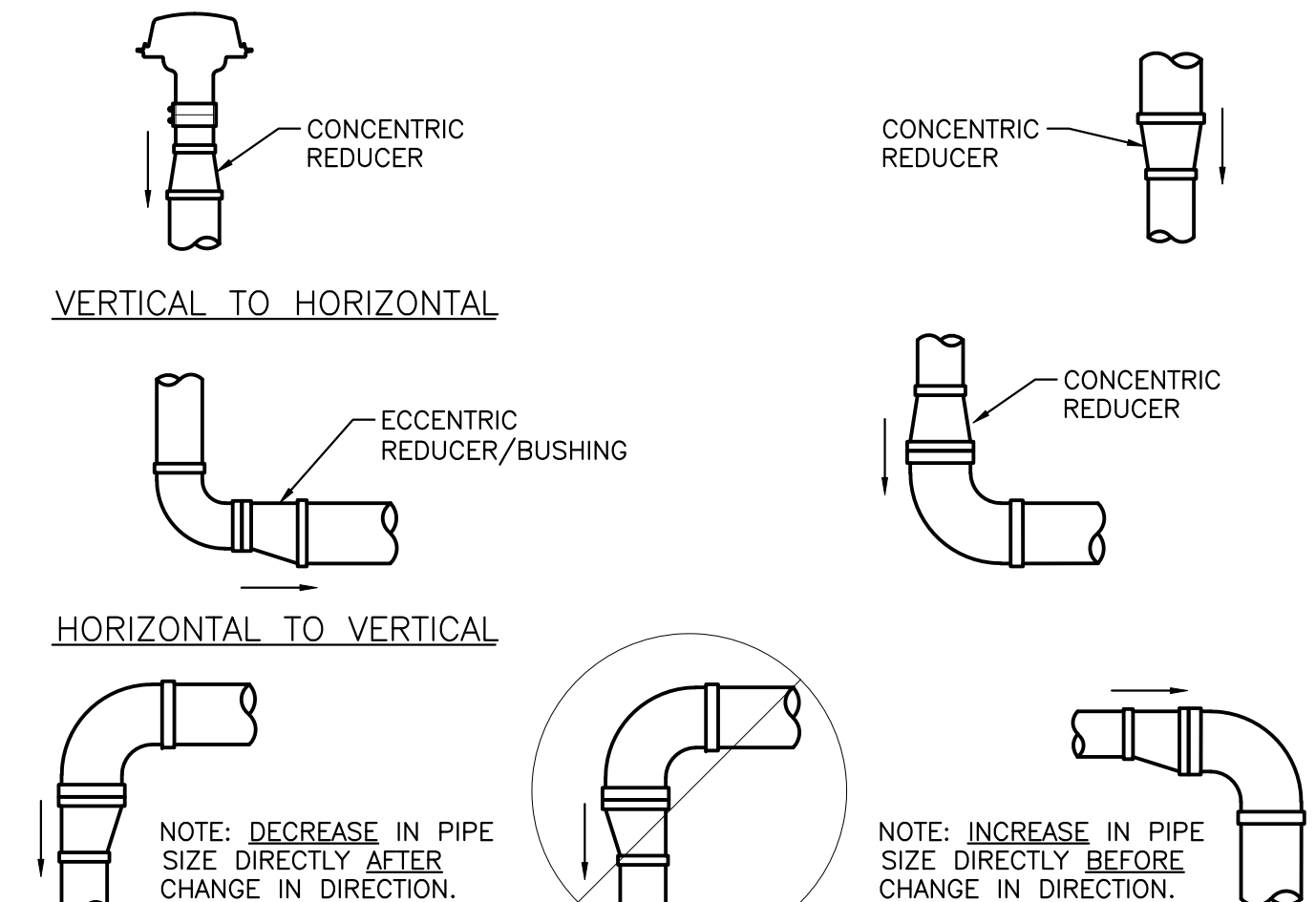
WATER FILTRATION DETAIL

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



SEAFOOD PREP SINK (E-19)

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

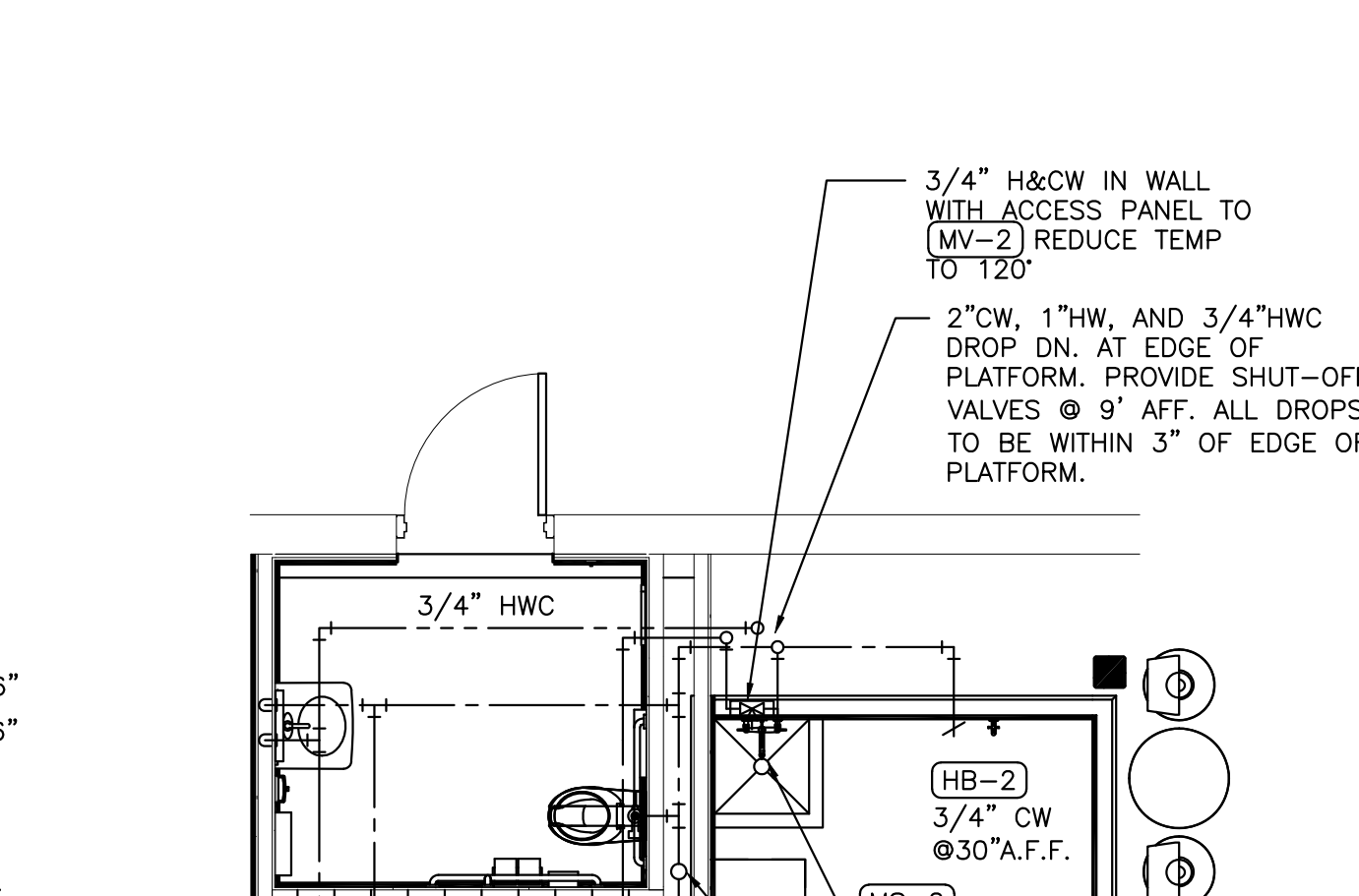


SIPHONIC ROOF DRAIN SYSTEM

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

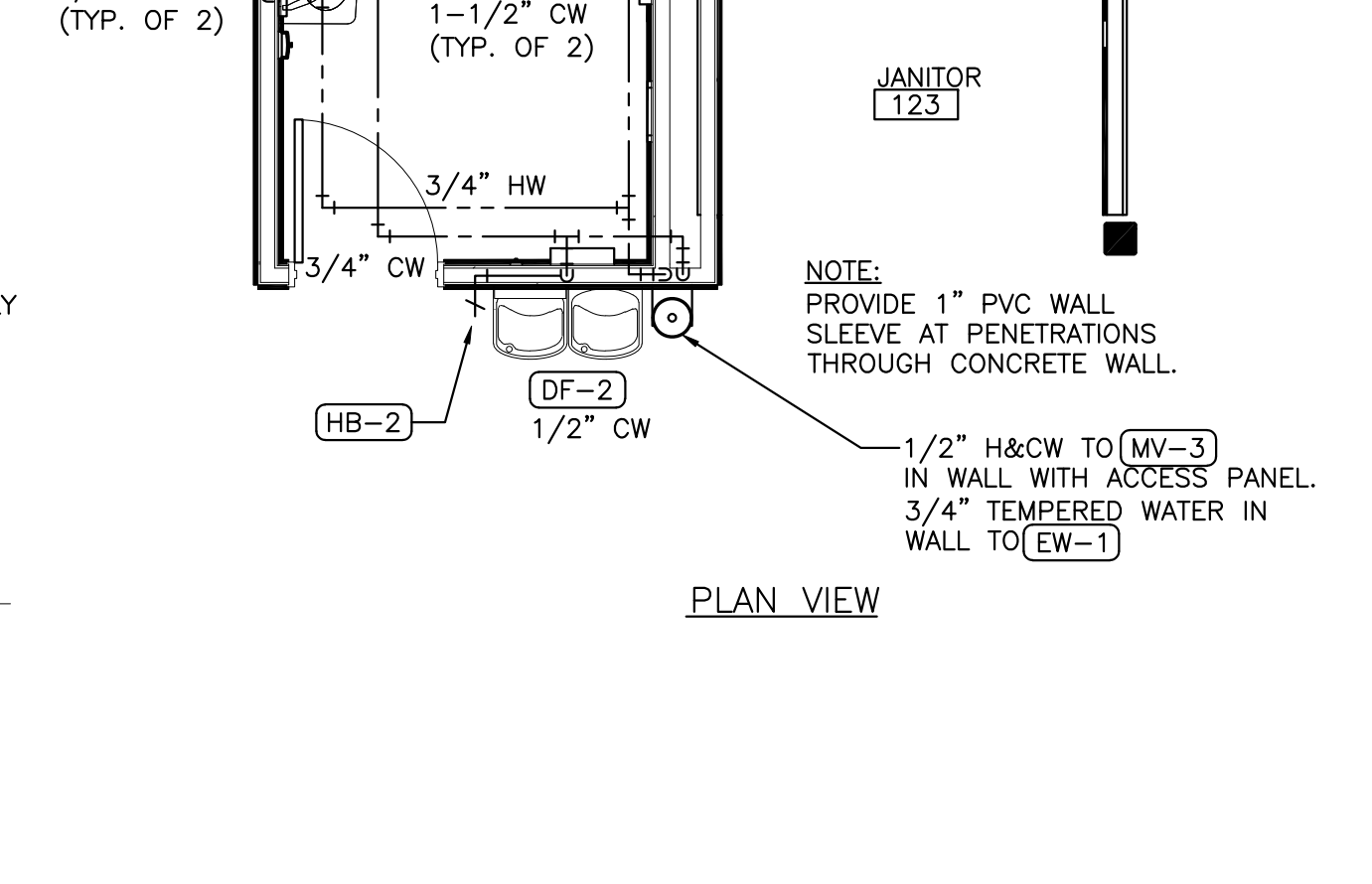
FOUR COMPARTMENT SINK E-22

SCALE: NONE REV: SI/11-25/Master



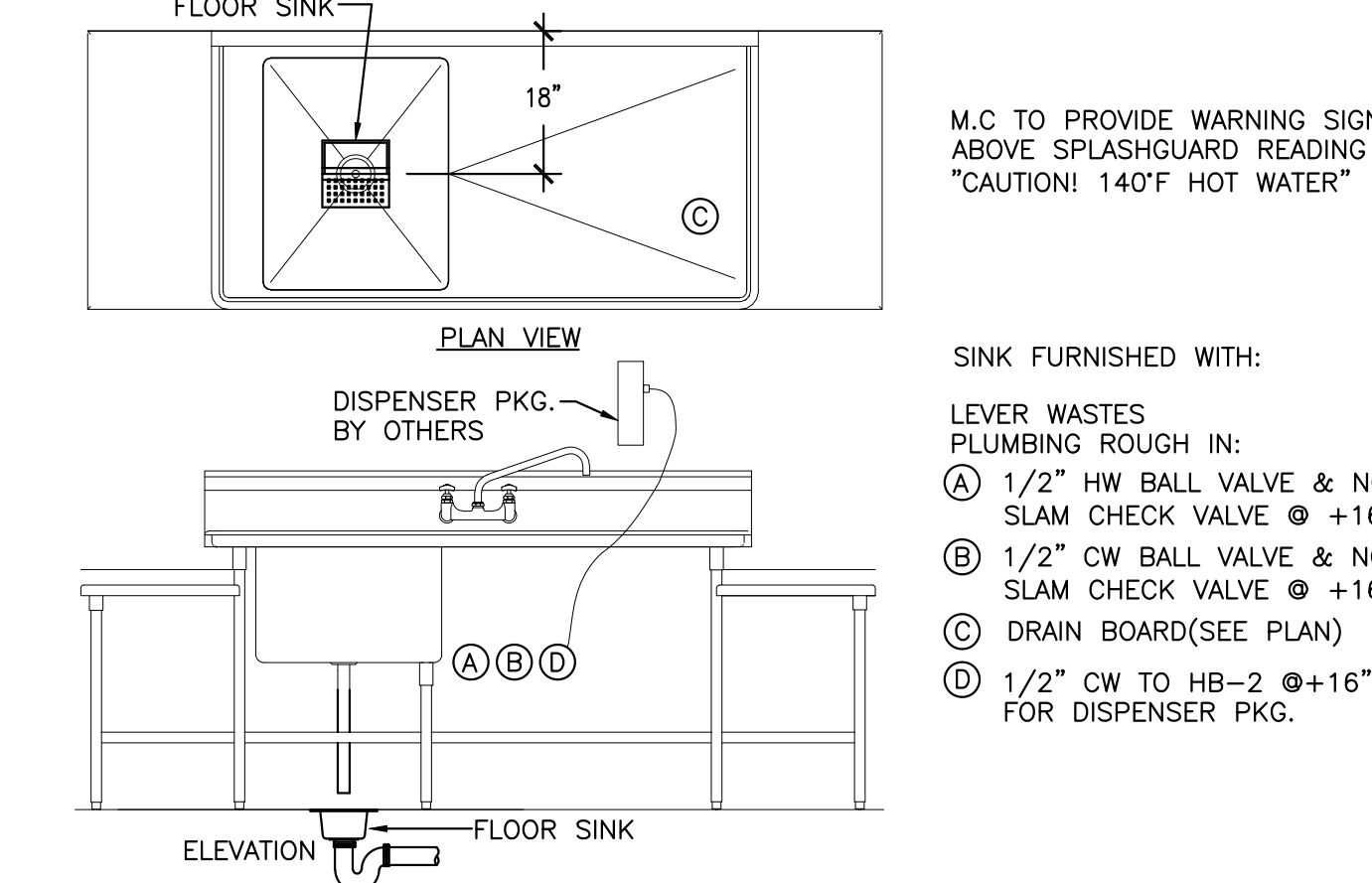
RECEIVING RESTROOM PIPING DIAGRAM

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



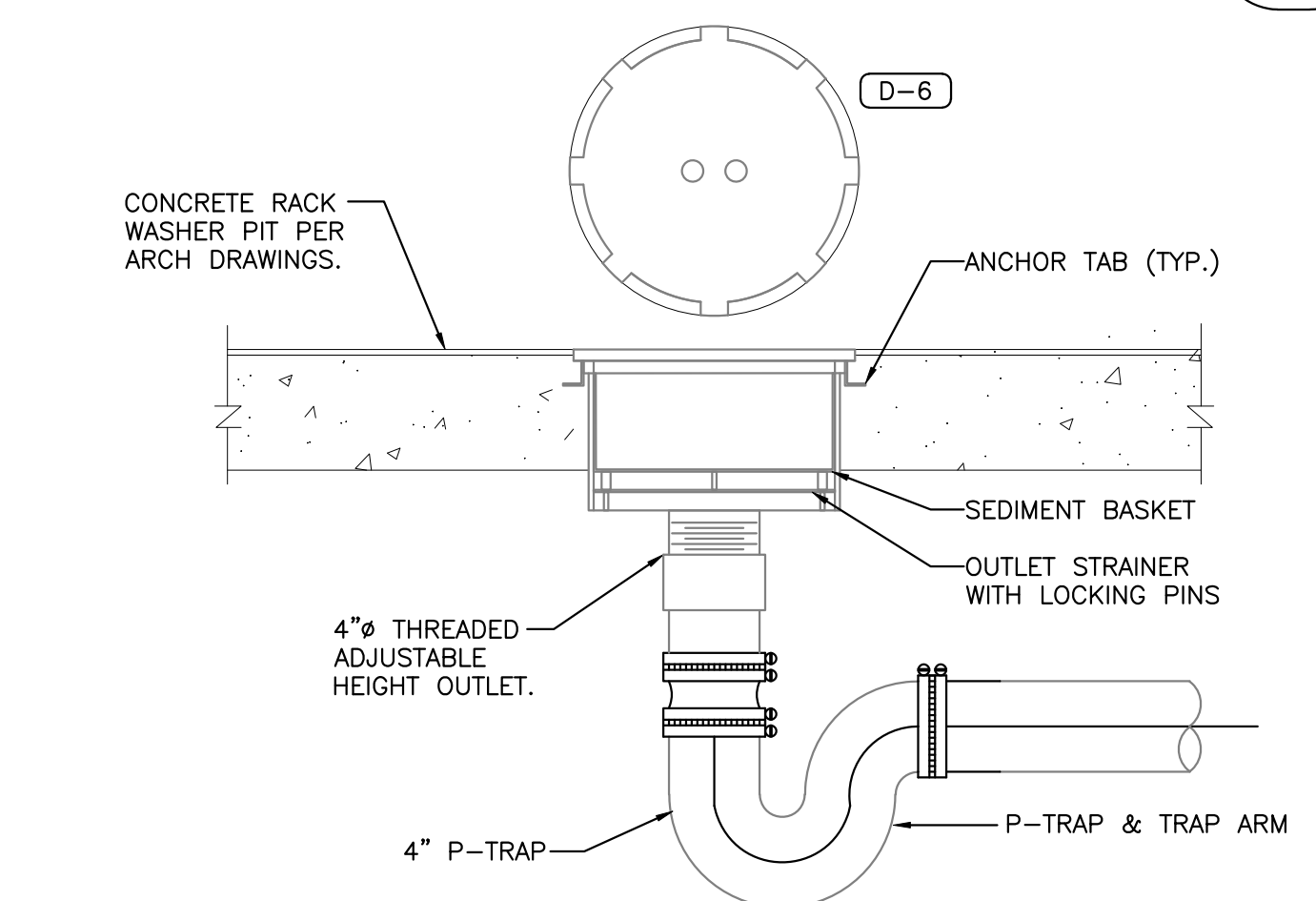
RECEIVING RESTROOM PIPING DIAGRAM

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



SEAFOOD PREP SINK (E-19)

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



FLOOR DRAIN TYPE D-6

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

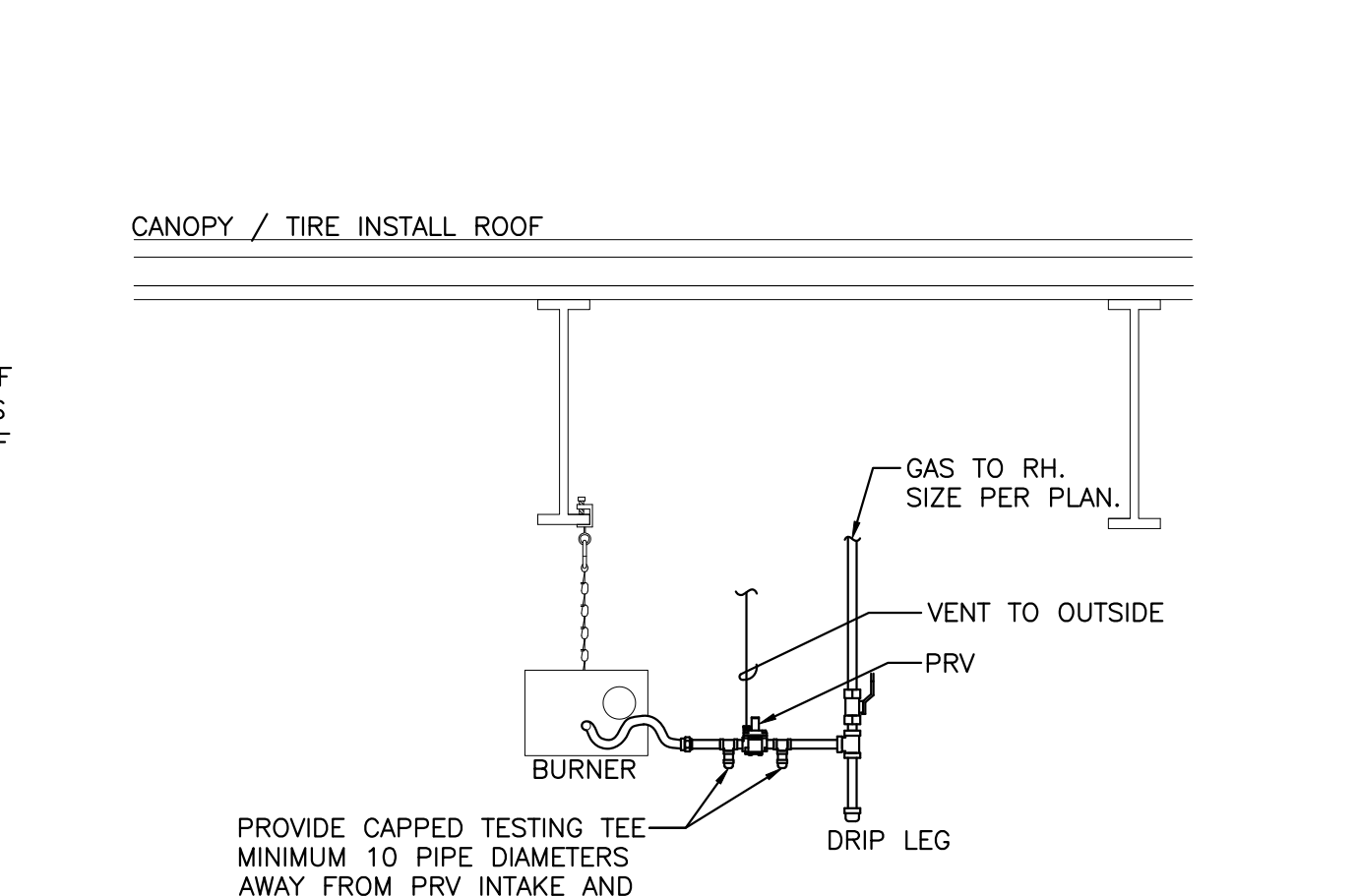


FLOOR DRAIN TYPE D-6

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

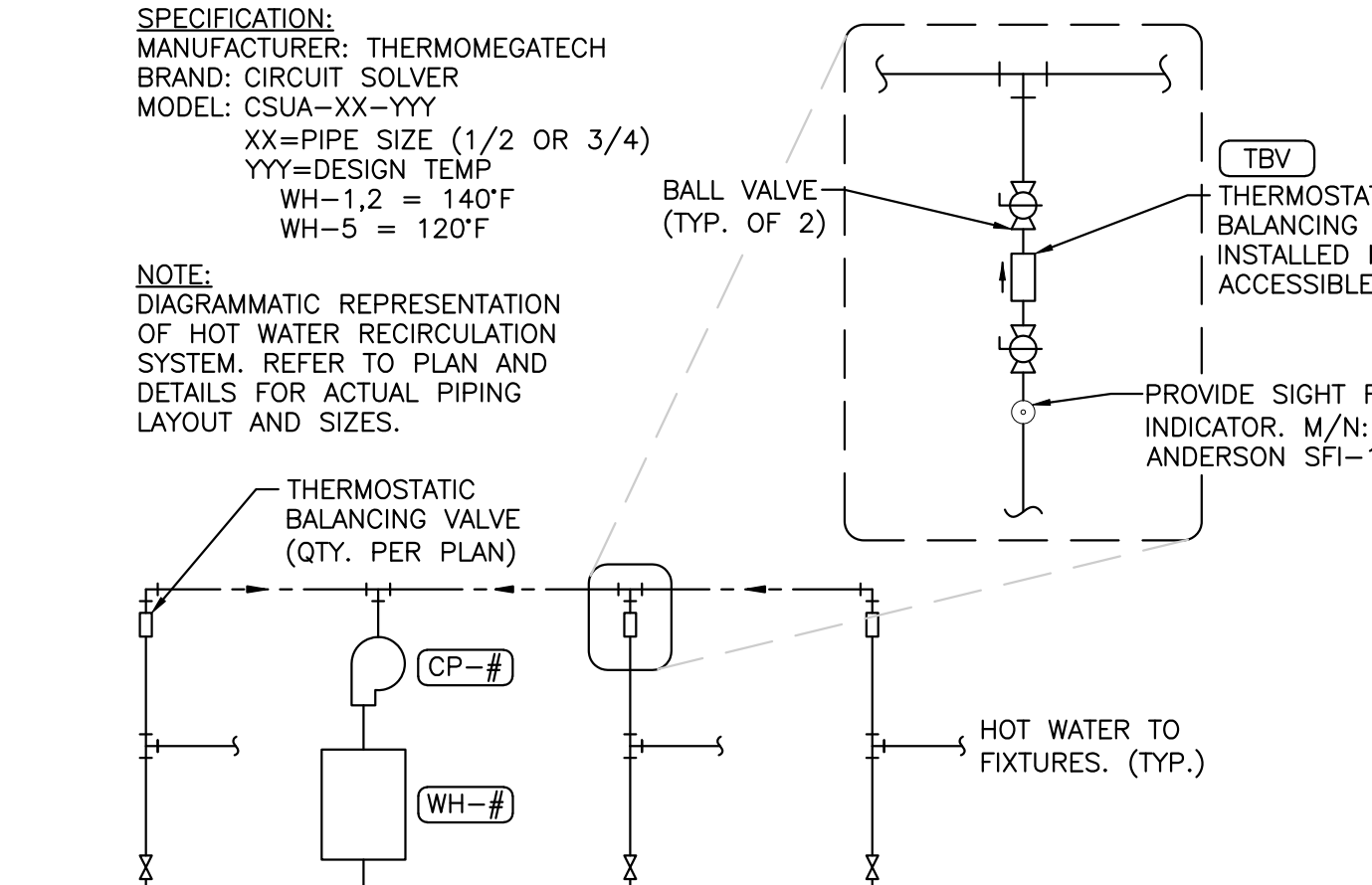
TWO COMP. SINK (E-12)

SCALE: NONE REV: SI/11-25/Master



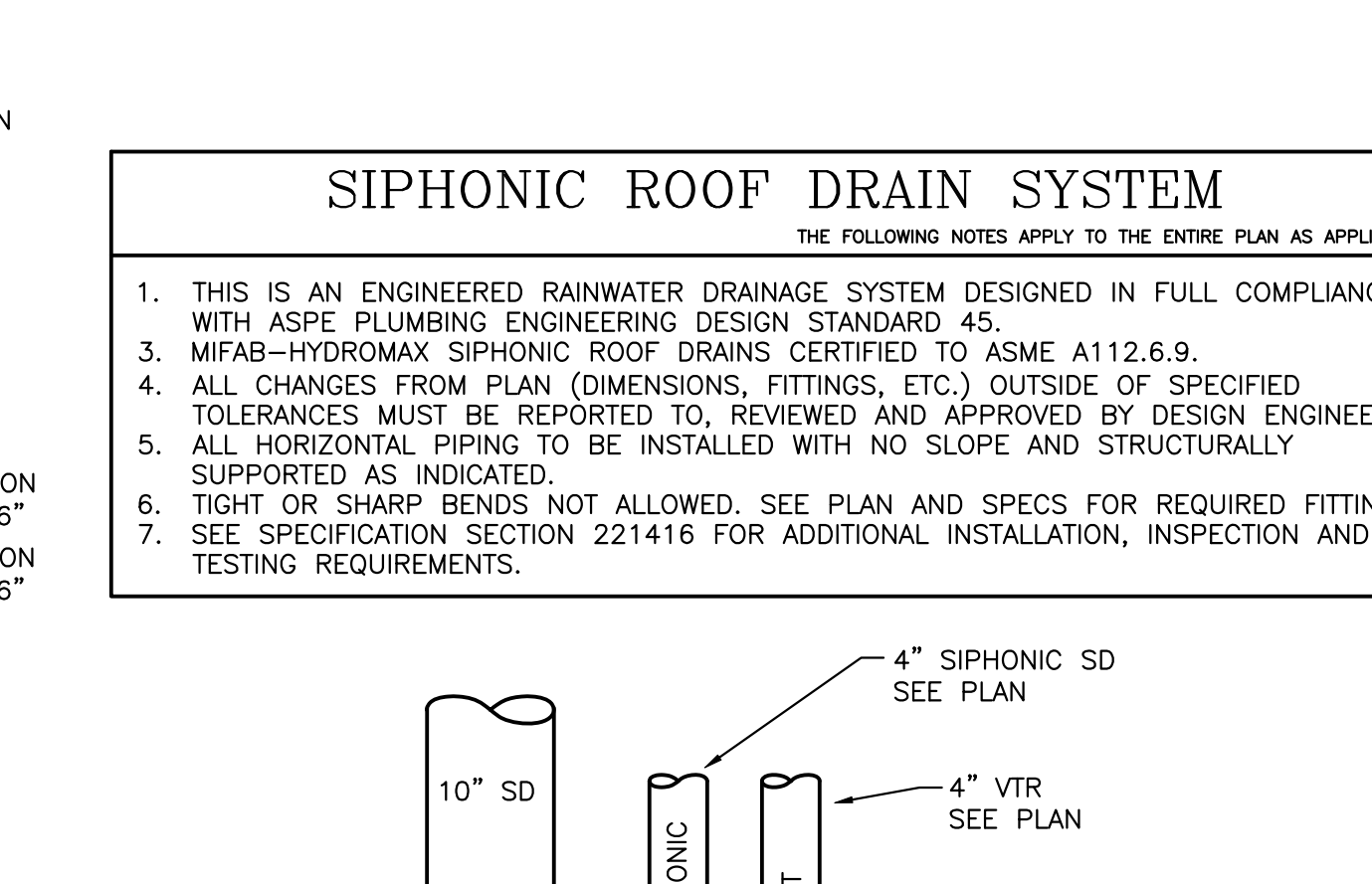
RADIANT HEATER GAS PIPING

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



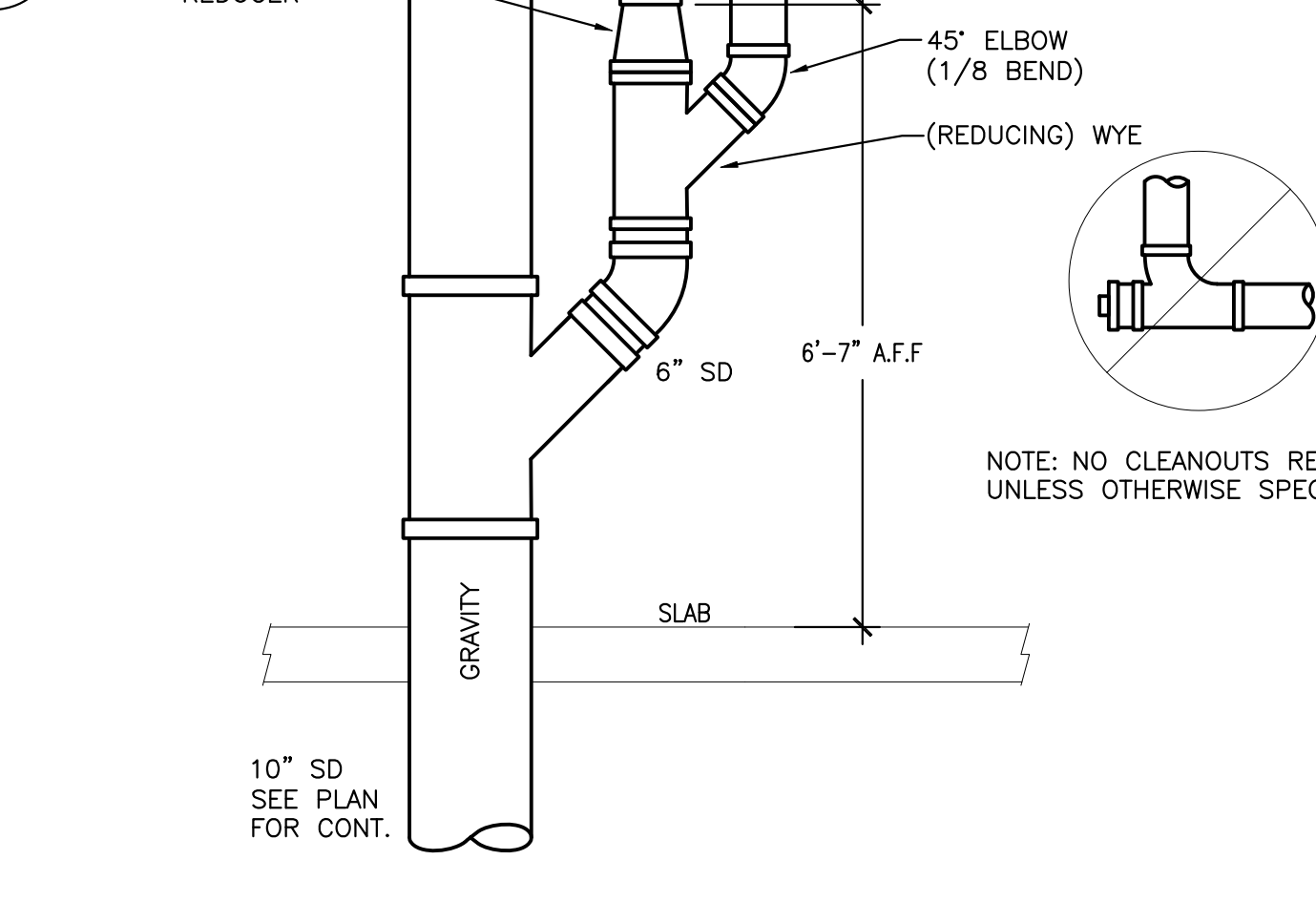
THERMOSTATIC BALANCING VALVE DETAIL

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



SIPHONIC ROOF DRAIN SYSTEM

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



SIPHONIC BREAK DETAIL

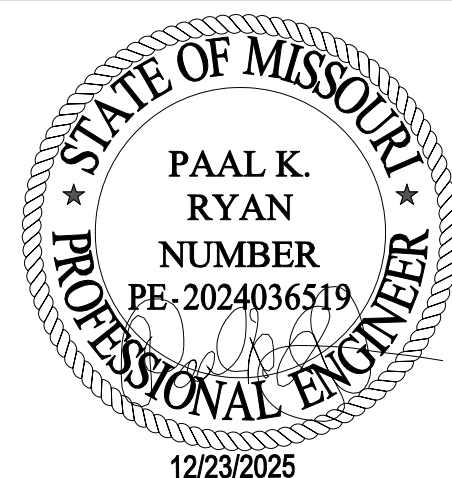
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SIPHONIC BREAK DETAIL

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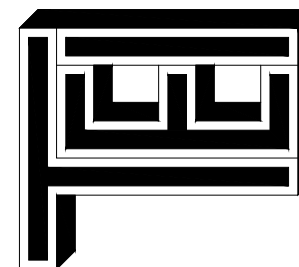
ISSUED FOR PERMIT



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NEW WAREHOUSE

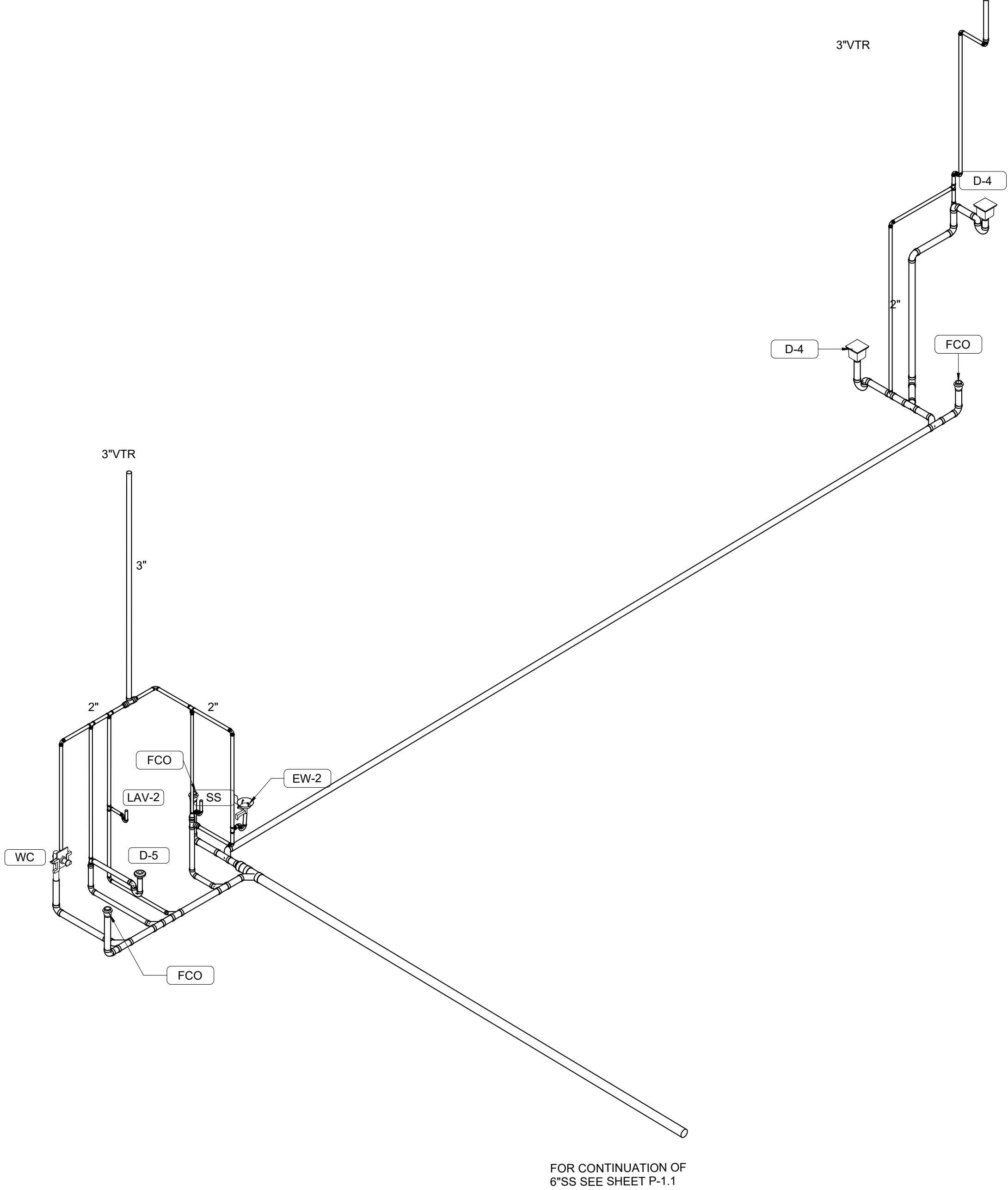
LEES SUMMIT, MO

Costco
WHOLESALE

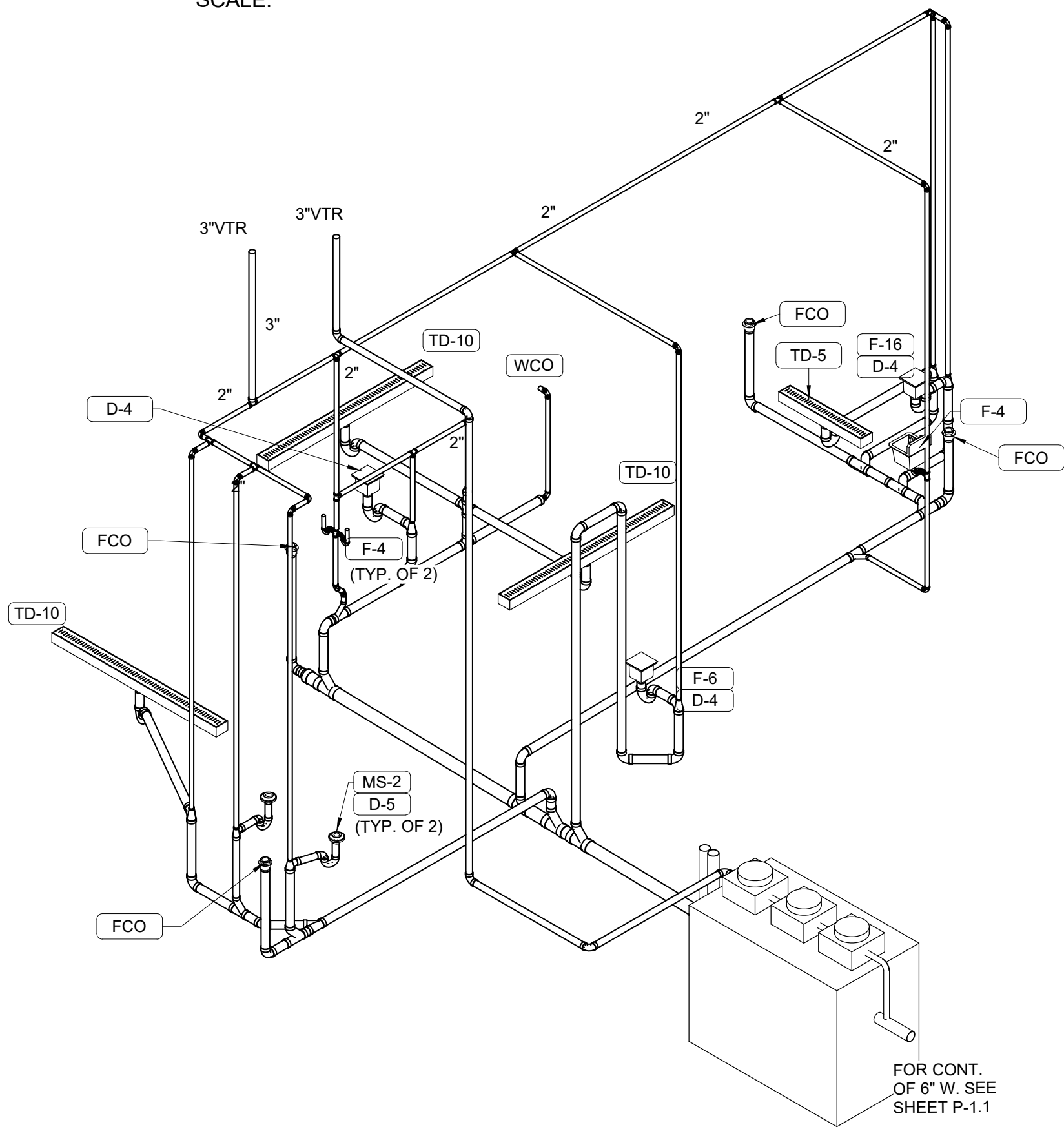
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ISSUED: 11/26/24

PLUMBING DETAILS

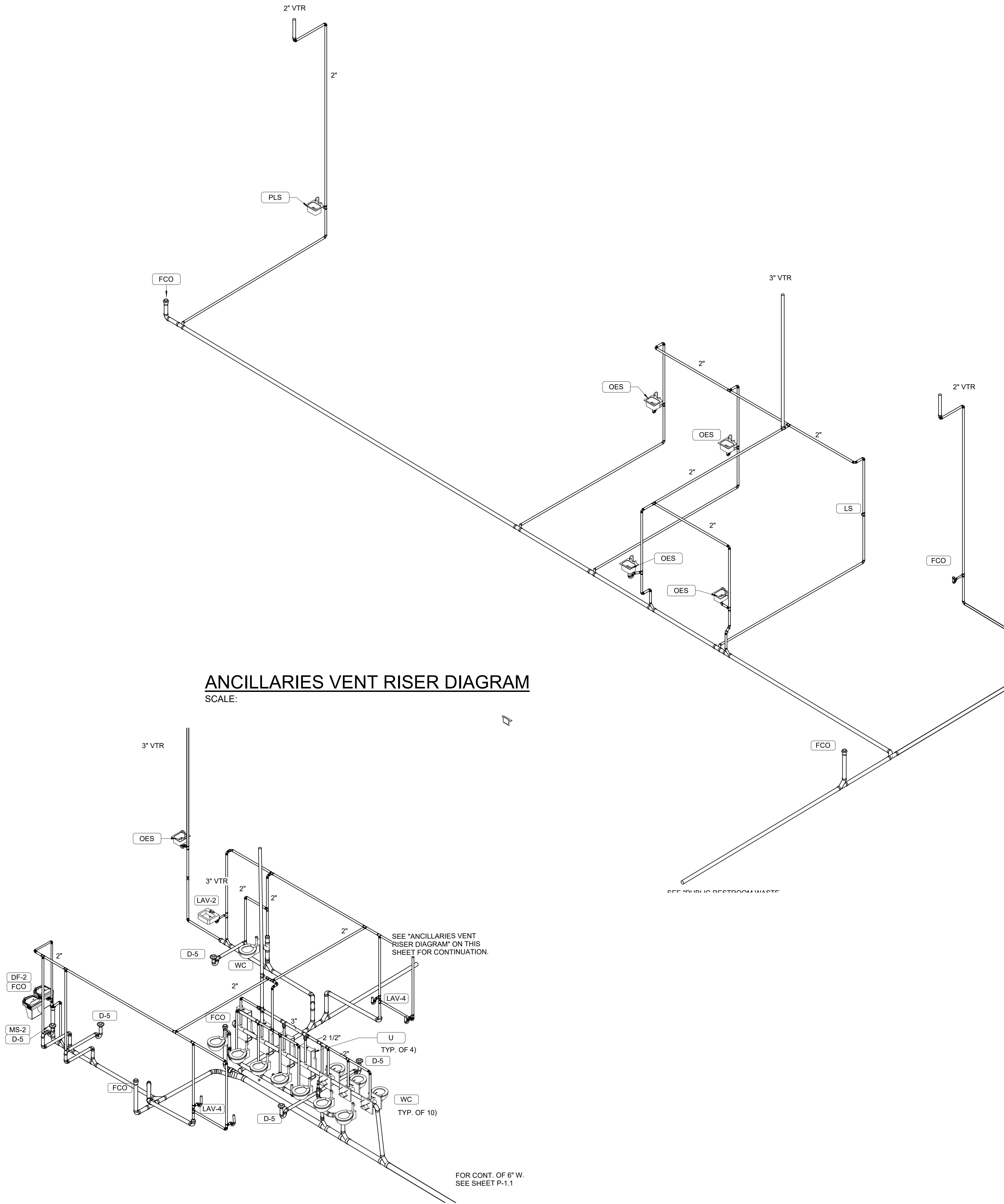
P-4.3



TIRE CENTER WASTE & VENT RISER DIAGRAM
SCALE:

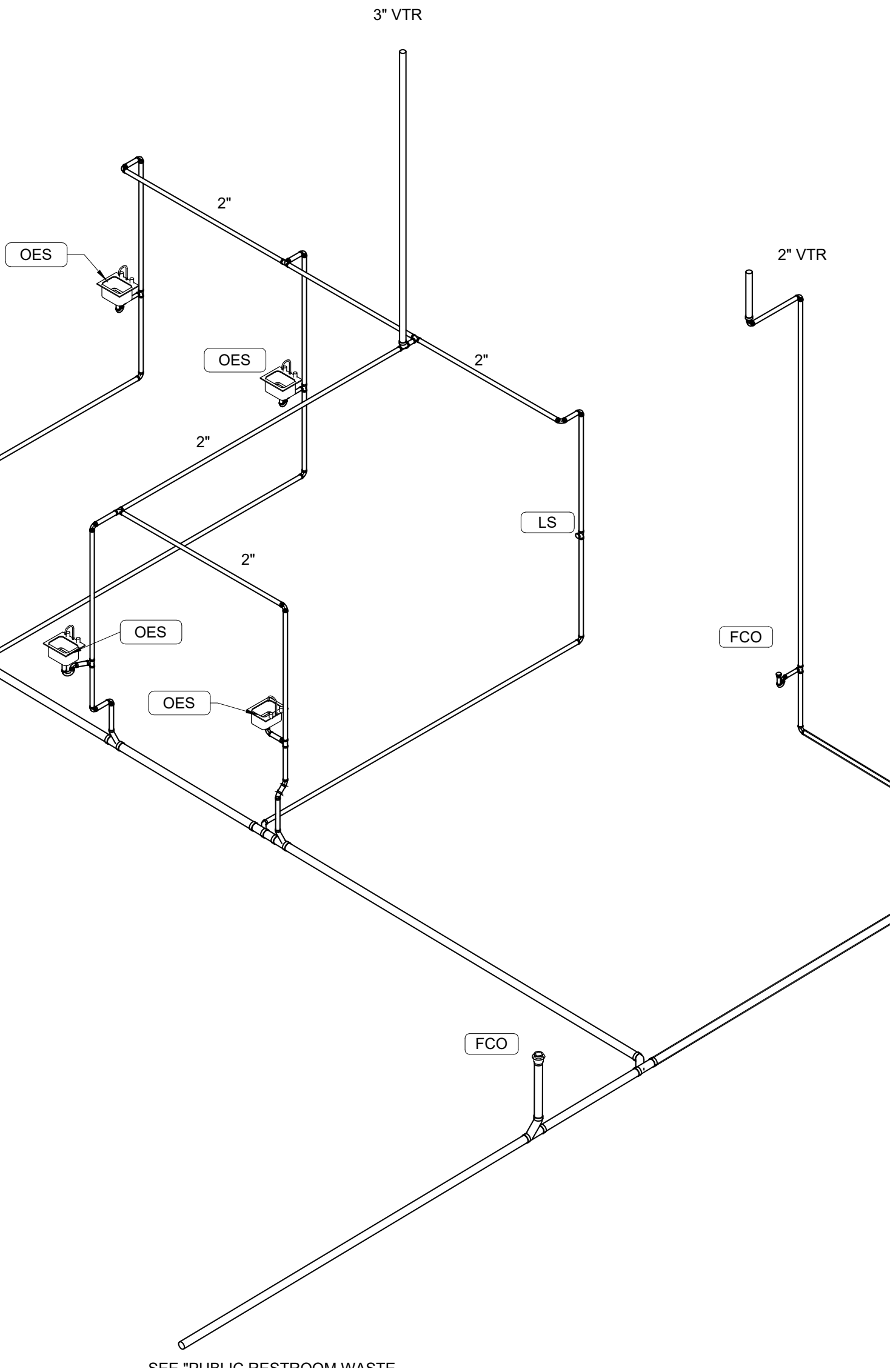


FOOD SERVICE WASTE & VENT RISER DIAGRAM
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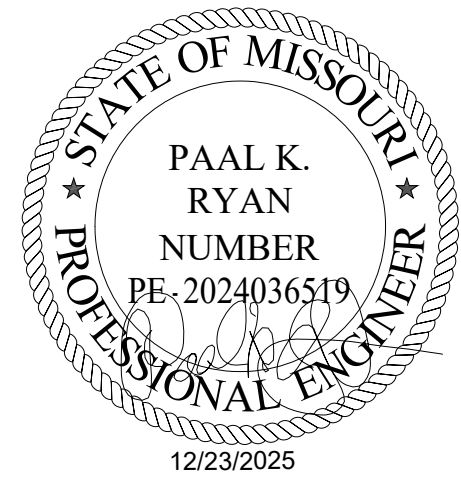


PUBLIC RESTROOM WASTE & VENT RISER
SCALE:

ANCILLARIES VENT RISER DIAGRAM
SCALE:



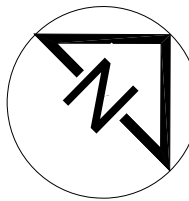
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LEES SUMMIT, MO



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VENT RISER DIAGRAMS