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GAS INSTANTANEOUS WATER HEATER SCHEDULE					
TAG	MFG	MODEL NUMBER	GPM	GAS INPUT	LOCATION
WH-1, 2	INTELLIHOT	I250	5 GPM (EA.)	250,000 BTUH (EA.)	MECH ROOM
NOTES: 1. DIMENSIONS: 26.2" X 17.7" X 15" 2. STAINLESS STEEL VENT TO BE DURAVENT. PVC PIPING SHALL NOT BE INSTALLED. 3. PROVIDE EXPANSION TANK AMTROL ST-5, OR EQUAL 4. PROVIDE CONDENSATE NEUTRALIZER, CN1001, OR EQUAL 5. PROPANE CONVERSION KIT					

HOT WATER CIRCULATING PUMP SCHEDULE						
TAG	MFG	MODEL NUMBER	GPM	HP	ELECTRICAL	LOCATION
CP-1	GRUNDFOS	UP15-55SFC	4 GPM	FRACTIONAL	120/1/60	MECH ROOM

MEDICAL VACUUM PUMP SCHEDULE					
TAG	MFG	MODEL NUMBER	HP	ELECTRICAL	LOCATION
VP-1	BEACON MEADES	VHV02D-060H-D_V	2 HP, DUPLEX	480/3/60	VACUUM 120
NOTES: 1. VACUUM PUMP TO BE CLAW - DUPLEX TYPE. 2. TOTAL SYSTEM CAPACITY TO BE 16 SCFM EA.					

MEDICAL GAS SCHEDULE			
TAG	TYPE	GASES	LOCATION
(A)	WALL OUTLETS	(2) O2, (1) A, (3) V, (3) SL	RESUSCITATION
(B)	WALL OUTLETS	(1) O2, (1) A, (1) V, (1) SL	EXAM
(C)	WALL OUTLETS	(1) O2, (1) A, (1) V, (1) SL	CT, RAD., AND DECON.
(D)	WALL OUTLETS	(1) O2, (1) V, (1) SL	TRIAGE
(E)	LINE PRESSURE ALARM	O2, A, V	NURSE'S STATION
(F)	MASTER ALARM PANEL	O2, A, V	NURSE'S STATION, 126 OFFICE
NOTE: REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF MEDICAL GAS WALL OUTLETS.			

MECHANICAL/ELECTRICAL SYSTEM COORDINATION SCHEDULE				
SYSTEM	FURNISHED UNDER	INSTALLED UNDER	POWER WIRING UNDER	CONTROL OR SUPERVISION WIRING UNDER
EMEGENCY GENERATOR	DIV 26	DIV 26	DIV 26	
FUEL TANK	DIV 26	DIV 26	DIV 26	DIV 26
MUFFLER - OUTDOOR	DIV 26	DIV 26	---	---
REMOTE ANUNCIATOR	DIV 26	DIV 26	DIV 26	DIV 26
MAIN FUEL OIL SYSTEM	DIV 23	DIV 23	DIV 26	DIV 23
LIFE SAFETY SYSTEM	---	---	---	---
SMOKE DAMPER / ACTUATOR	DIV 23	DIV 23	DIV 26	DIV 28
FIRE/SMOKE DAMPER / ACTUATOR	DIV 23	DIV 23	DIV 26	DIV 28
DUCT SMOKE DETECTOR	DIV 26	DIV 23	---	DIV 28
FIRE SPRINKLER SYSTEM	DIV 21	DIV 21	DIV 26	DIV 28
WATER FLOW SWITCHES	DIV 21	DIV 21	---	DIV 28
TAMPER SWITCHES	DIV 21	DIV 21	---	DIV 28
MEDICAL GAS ALARM	DIV 22	DIV 22	DIV 26	DIV 22
CHEMICAL FEED SYSTEM	DIV 22 / 23	DIV 22 / 23	DIV 26	DIV 22 / 23
HEATING WATER BOILERS	DIV 23	DIV 23	DIV 26	DIV 23
DOMESTIC WATER BOILERS	DIV 22	DIV 22	DIV 26	DIV 23
MOTOR STARTERS (INTEGRAL TO EQUIP.)	DIV 22 / 23	---	DIV 26	DIV 23
MOTOR STARTERS (NON-INTEGRAL TO EQUIP.)	DIV 26	DIV 26	DIV 26	DIV 23
COMBI MOTOR STARTER/DISCONNECT (INTEGRAL TO EQUIP.)	DIV 22 / 23	---	DIV 26	DIV 23
COMBI MOTOR STARTER/DISCONNECT (NON-INTEGRAL TO EQUIP.)	DIV 26	DIV 26	DIV 26	DIV 23
VARIABLE FREQUENCY DRIVES (VFD'S)	DIV 22 / 23	DIV 23	DIV 26	DIV 23
DISCONNECT SWITCHES (NON-INTEGRAL TO EQUIP.)	DIV 26	DIV 26	DIV 26	---
HEAT TRACE	DIV 22 / 23	DIV 22 / 23	DIV 26	DIV 23
THIS TABLE IS PROVIDED AS A GUIDE TO THE DOCUMENT PREPARATION AND IN NO WAY INDICATES CONTRACTOR MEANS AND METHODS. ALL LISTED ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR, UNDER THE DIVISIONS INDICATED ABOVE, UNLESS OTHERWISE NOTED.				

PLUMBING ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
A	MEDICAL AIR LINE
ACC	ACCESSIBLE
AW	ACID WASTE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AVTR	ACID VENT THROUGH ROOF
BPW	BED PAN WASHER
CLG	CEILING
CONT	CONTINUATION
COORD	COORDINATION
CO	CLEAN OUT
CW	COLD WATER LINE
DN	DOWN
DWG	DRAWING
EA	EACH
ECO	EXTERIOR CLEAN OUT
FM	FLOOR MOUNTED
FD	FIRE PROTECTION DRY PIPE
F	FIRE PROTECTION WET PIPE
FV	FLUSH VALVE
GN	GOOSENECK
GPM	GALLONS PER MINUTE
HW	HOT WATER LINE
HWR	HOT WATER RETURN
LAV	LAVATORY
LPA	LINE PRESSURE ALARM
MAP	MASTER ALARM PANEL
MECH	MECHANICAL
MTD	MOUNTED
O2	OXYGEN LINE
OFE	OWNER FURNISHED EQUIPMENT
PAT	PATIENT
PRV	PRESSURE REDUCING VALVE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RWL	RAINWATER PIPING
SS	SANITARY SEWER PIPING
SD	UNDERGROUND STORM PIPING
SF	SQUARE FOOT
V	MEDICAL VACUUM PIPING
VTR	VENT THROUGH ROOF
WB	WRISTBLADE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WALL HUNG
ZVB	ZONE VALVE BOX

FIXTURE CONNECTION SCHEDULE				
SYMBOL	DESCRIPTION	CONNECTION SIZE		
		W	CW	HW
P-101	WATER CLOSET (FM, FV, ACC.)	4"	1"	-
P-107	WATER CLOSET (FM, FV, ANTI-LIGATURE, ACC.)	4"	1"	-
P-304	LAVATORY (WH, GN, WB, ACC.)	1-1/2"	1/2"	1/2"
P-309	LAVATORY (WH, GN, WB, ANTI-LIGATURE, ACC.)	1-1/2"	1/2"	1/2"
P-312	LAVATORY (WH, GN, WB, ACID)	1-1/2"	1/2"	1/2"
P-313	BARIATRIC SINK (WH, GN, WB, BAR.)	1-1/2"	1/2"	1/2"
P-402	SINK (DROP-IN, GN, WB, ACC.)	1-1/2"	1/2"	1/2"
P-410	SINK (WH, GN, WB, ACID)	1-1/2"	1/2"	1/2"
P-502	CLINICAL SINK	4"	1"	1/2"
P-503	SCRUB SINK	1-1/2"	1/2"	1/2"
P-504	SERVICE BASIN	3"	1/2"	1/2"
P-601	DECON SHOWER	1-1/2"	1/2"	1/2"
P-608	SHOWER (CONTROLS)	-	1/2"	1/2"
P-701	FLOOR DRAIN (REGULAR)	3"	-	-
P-702	FLOOR DRAIN (MECHANICAL)	4"	-	-
P-710	ROOF DRAIN	SEE PLANS	-	-
P-711	OVERFLOW ROOF DRAIN	SEE PLANS	-	-
P-721	FLOOR DRAIN (PROCESS, A.R.E. COATED)	4"	-	-
P-724	DOWNSPOUT NOZZLE	3"	-	-
P-801	WALL HYDRANT (EXTERIOR)	-	3/4"	-
P-802	WALL HYDRANT (INTERIOR)	-	1/2"	-
P-804	ICE MAKER / WATER CONNECTION	-	1/2"	-
P-811	WATER COOLER (HI/LO)	1-1/2"	1/2"	-
P-812	EMERGENCY SHOWER / EYEWASH	-	1"	1"
P-814	WALL HYDRANT (DUAL TEMP)	-	1/2"	1/2"
P-816	EMERGENCY EYEWASH (WALL MOUNTED)	1-1/2"	1/2"	1/2"
P-819	ROOF HYDRANT (FREEZE-PROOF)	1-1/2"	1/2"	1/2"
P-906	REDUCED PRESSURE BACKFLOW PREVENTER	2"	2"	-
P-907	REDUCED PRESSURE BACKFLOW PREVENTER	1"	1"	-
P-911	TRAP PRIMER	-	1/2"	-
P-914	SHOCK ABSORBER	-	SEE PLANS	-
NOTES: 1. WALL MTD. FIXTURES SHALL BE PROVIDED W/ FLOOR MOUNTED, CONCEALED ARM WALL CARRIER. 2. ALL EXPOSED P-TRAPS SHALL BE PROVIDED W/LAV SHIELDS 3. PROVIDE BACKFLOW PREVENTER AT CONNECTION TO OWNER FURNISHED EQUIPMENT PER IPC. 4. PROVIDE AND INSTALL TRAP PRIMERS FOR ALL FLOOR DRAINS. 5. IN ADDITION TO SERVICE VALVES SHOWN ON PLANS, PROVIDE AND INSTALL ISOLATION VALVES ON HOT AND COLD WATER SUPPLY PIPING TO EACH PLUMBING FIXTURE, INCLUDING TRAP PRIMERS. 6. SHOCKTROL TO BE ZURN SERIES Z-1700 OR EQUAL SIZE AS INDICATED ON WATER RISER DIAGRAM. PROVIDE ACCESS TO ALL SHOCKTROLS THRU ACCESS PANELS. LAY-IN CEILINGS. WALL IN CHASE 7. P-804 TO BE LOCATED IN WALL AT OFF ICE MAKERS AND MOUNTED 4" ABOVE COUNTERTOP. OWNER FURNISHED FILTER TO BE INSTALLED IN CASEWORK. ROUTE DRAIN PIPING FROM ICEMAKERS TO FLOOR DRAIN AS INDICATED ON PLAN. 8. PROVIDE ASSE 1070 POINT OF USE MIXING VALVES AT ALL PUBLIC HANDWASHING LAVATORIES, EXAM SINKS, LAB SINKS, AND PROCEDURE SINKS.				

PLUMBING LEGEND		
SYMBOL	DESCRIPTION	
	---	REDUCED PRESSURE BACKFLOW PREVENTER
	-	P-TRAP
	---	BALL VALVE
	+	FLOOR DRAIN
	+	CONNECT TO EXISTING
P-No.	PLUMBING FIXTURE DESIGNATION	
	END CAP	
	FIRE EXTINGUISHER	
	MEDICAL GAS ZONE VALVE BOX (ZVB)	
	MEDICAL GAS ALARM PANEL	
(A)	MEDICAL GAS DESIGNATION	
	CW	COLD WATER SUPPLY
	HW	HOT WATER SUPPLY
	HWR	HOT WATER RETURN
	SV	SANITARY VENT
	SS	SANITARY WASTE
	AV	ACID VENT
	AW	ACID WASTE
	RWL	RAINWATER LEADER
	ORD	OVERFLOW RAINWATER DRAIN
	SD	STORM DRAIN
	NG	NATURAL GAS
	LP	LIQUID PROPANE

GAS CONNECTION SCHEDULE			
IDENTIFICATION	TOTAL GAS LOAD	LP CONNECTION SIZE	NG CONNECTION SIZE
B-1	750 MBH	1"	1-1/4"
B-2 (STANDBY)	750 MBH	1"	1-1/4"
WH-1	250 MBH	3/4"	3/4"
WH-2	250 MBH	3/4"	3/4"
NOTE: LIQUID PROPANE PIPING SIZED FOR 2 PSI AND 1 PSI PRESSURE DROP AT 70' IN LENGTH. NATURAL GAS PIPING SIZED FOR 2 PSI AND 1 PSI PRESSURE DROP AT 70' IN LENGTH. VERIFY PRESSURES AND EQUIPMENT BTU'S, ADJUST SIZED ACCORDINGLY. FURNISH AND INSTALL GAS PRESSURE REGULATORS AT ALL HVAC EQUIPMENT REQUIRING GAS OR PROPANE.			
TOTAL	1,250 MBH	3/4"	1"

NOTES FOR SEISMIC ANCHORAGE AND BRACING	
GENERAL	
1.	Ducts, pipes, and conduits shall be braced in accordance with the 2018 International Building Code(IBC), Occupancy Category III, or IV. Refer to structural drawings for site class, short and long period acceleration parameters and seismic design category. Component importance factor shall be 1.5 for all systems. Bracing calculations and system design to be completed by a registered engineer within the state, refer to specification sections 220547 for additional requirements.
2.	Unless otherwise permitted by the Code or applicable bracing standards, in-line equipment shall be braced independently of the ducts or pipes and in conformance with applicable building codes.
3.	Pipe, duct, and conduit hangers shall be positively attached to the supporting structure above. The use of C-clamps or other friction-type anchors to hang pipe, duct, and conduit is prohibited. Friction-type anchors such as C-clamps with properly attached retaining straps may be used if approved by the Structural Engineer-of-Record.
4.	Refer to the Structural Drawings for acceptable expansion anchor types and test loads where required.
5.	Appropriate expansion/contraction capability shall be provided in ducts, conduits, pipes, etc. which cross building expansion direction on each side of the joint centerline. As a minimum, the total relative movement in any horizontal directions shall be equal to the size of the building expansion joint. For example, at a 3-inch building expansion joint, a pipe, duct, or conduit shall be permitted to move a minimum of three inches (1 1/2 inches in each of 2 opposite horizontal directions) on each side of the joint centerline.
REQUIREMENTS FOR BRACING OF PIPES	
1.	Provide bracing details, schedules, and notes for all types of pipe, conduit and joints.
2.	Seismic support shall not be required for other piping systems where one of the following conditions are met:  A. Piping is supported by rod hangers, hangers in the pipe run are 12 in or less in length from the top of the pipe to the supporting structure, hangers are detailed to avoid bending of the hangers and their attachments, and provisions are made for piping to accommodate expected deflections.  B. High-deformability piping is used; provisions are made to avoid impact with larger piping or mechanical components or to protect the piping in the event of such impact; and the following size requirements are satisfied:  a. For Seismic Design Categories D, E, or F, the nominal pipe size shall be 1 in. or less.  b. For Seismic Design Category C, the nominal pipe size shall be 2 in or less.  c. Transverse bracing shall be at 40 feet maximum, except where a lesser spacing is indicated in the tables for bracing of pipes.  d. Longitudinal bracing shall be at 80 feet maximum, except where a lesser spacing is indicated in the tables. In pipes where thermal expansion is a consideration, an anchor point may be used as the specified longitudinal brace provided it has a capacity equal to or greater than a longitudinal brace. The longitudinal braces and connections must be capable of resisting the additional force induced by expansion and contraction.  e. Brace fuel-oil, medical gas, and natural gas piping, as required for flammable piping.  f. Provide flexibility in joints where pipes pass through building seismic joints or expansion joints or where rigidly supported pipes connect to equipment with vibration isolators.  g. Branch lines may not be used to brace main lines.  h. A rigid piping system shall not be braced to dissimilar parts of the building or to two dissimilar building systems that may respond differently during an earthquake.  i. Cast-iron pipe of all types, glass pipe, and any other pipe joined with a shield and clamp assembly, where the top of the pipe is 12 inches or more from the supporting structure, shall be braced on each side of a change in a direction of 90 degrees or more. Riser joints shall be braced or stabilized between floors.  j. Vertical risers shall be laterally supported with a riser clamp at each floor. For buildings greater than six stories high, risers shall be engineered individually.
EQUIPMENT	
1.	Floor- or pad-mounted equipment without vibration isolators shall be bolted to the floor (slab) with 3/8-inch diameter expansion bolts (see Structural Drawings for acceptable bolt type and required embedment) unless noted or shown otherwise on the MPE Drawings. Provide expansion anchors at the four corners and at 4'-0" center-to-center maximum along each side unless noted otherwise.
2.	Vibration isolators, snubbers, isolation rails, etc. and the anchorage of these assemblies for floor -or roof-mounted or suspended equipment shall be designed for the appropriate seismic forces (Fp) as found in the Chapter 13 if ASCE 7-10 and as required by the IBC. The design seismic forces shall be determined considering the amplification effects of non-rigid or flexible supports. Refer to the specifications for additional information and submittal requirements.
3.	Contractor shall submit a letter from each equipment manufacturer stating that active mechanical and electrical equipment that must remain operable following the design level earthquake for the project site shall be certified as operable based on shake table testing as specified in Section 13.2.5 of ASCE 7-10, or experience and historical data as outlined in Section 13.2.6 of ASCE 7-10 while meeting the scheduled and detailed requirements of the project.

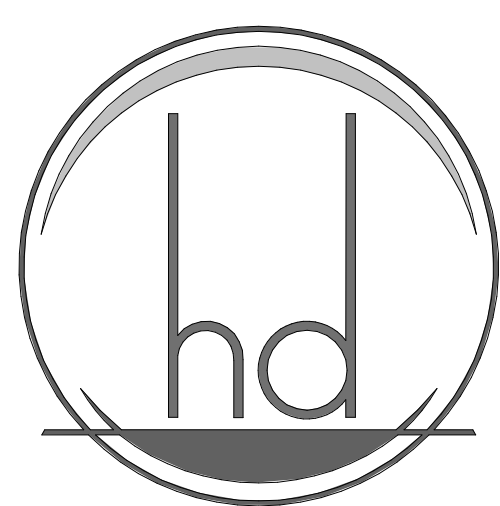
PLUMBING SHEET LIST	
Sheet Number	Sheet Name
P001	PLUMBING - SCHEDULES & NOTES
P002	PLUMBING - DETAILS
P003	PLUMBING - DETAILS
P004	PLUMBING - DETAILS
P100	PLUMBING - UNDERGROUND PLAN
P101	PLUMBING - FIRST FLOOR PLAN
P201	SANITARY - FIRST FLOOR PLAN
P202	SANITARY - ROOF PLAN
P301	MED GAS - FIRST FLOOR PLAN
P401	DOMESTIC WATER RISER
P402	SANITARY AND NATURAL GAS RISER

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DESIGNER:JMG ENGINEER-GHA



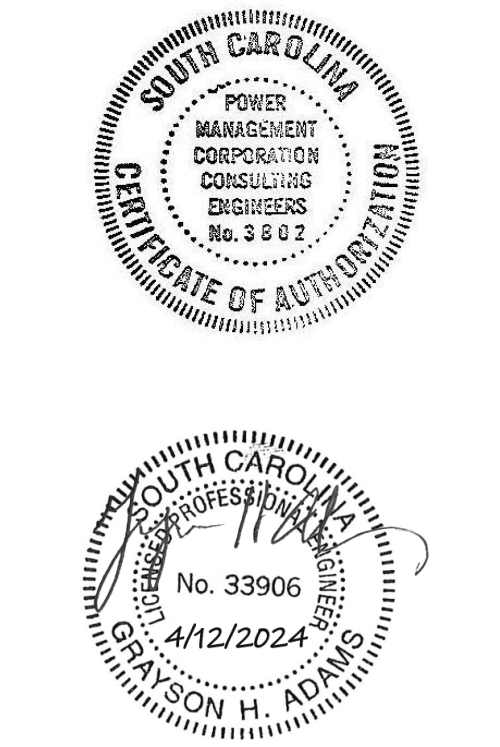
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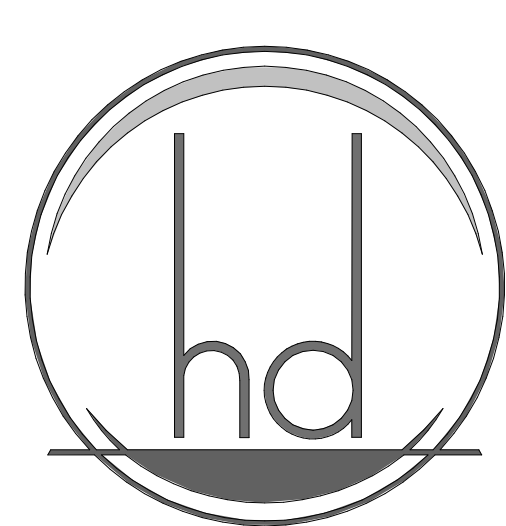
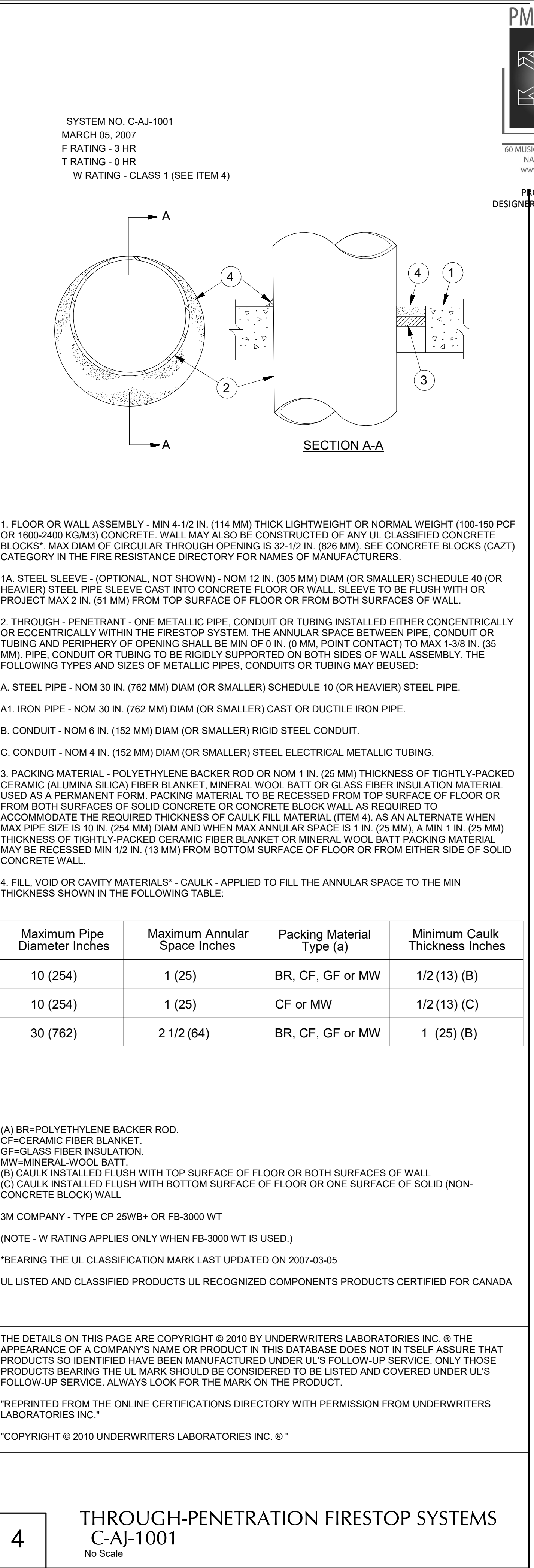
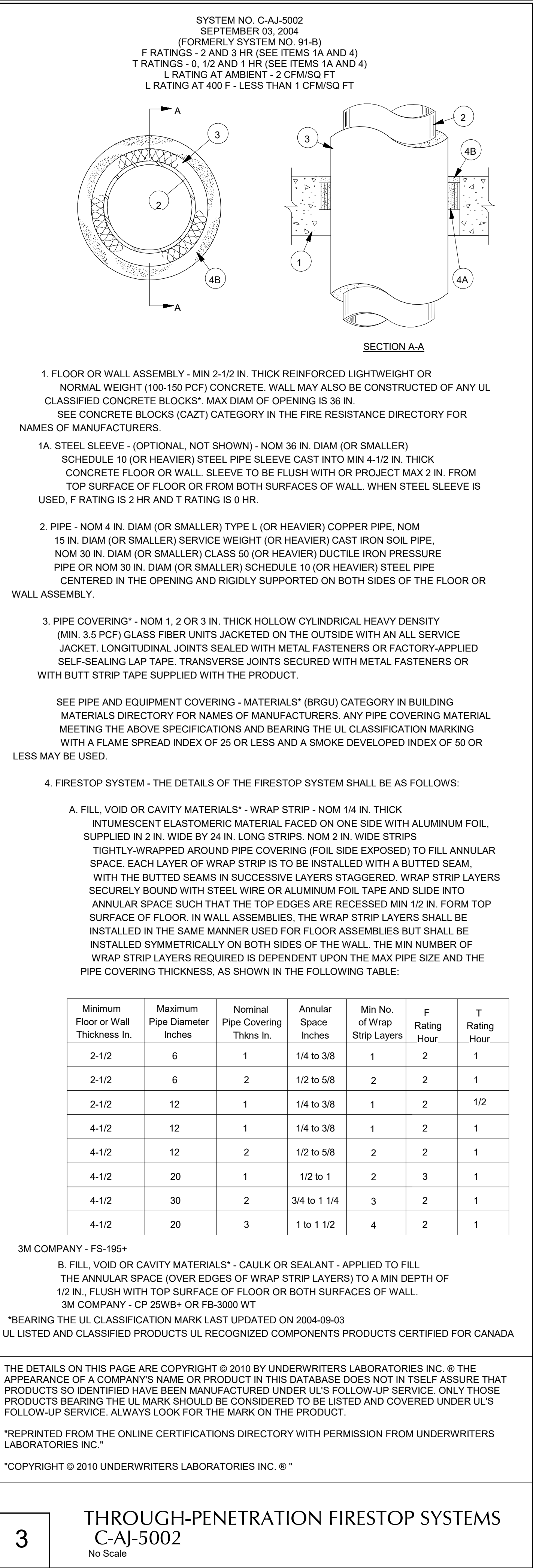
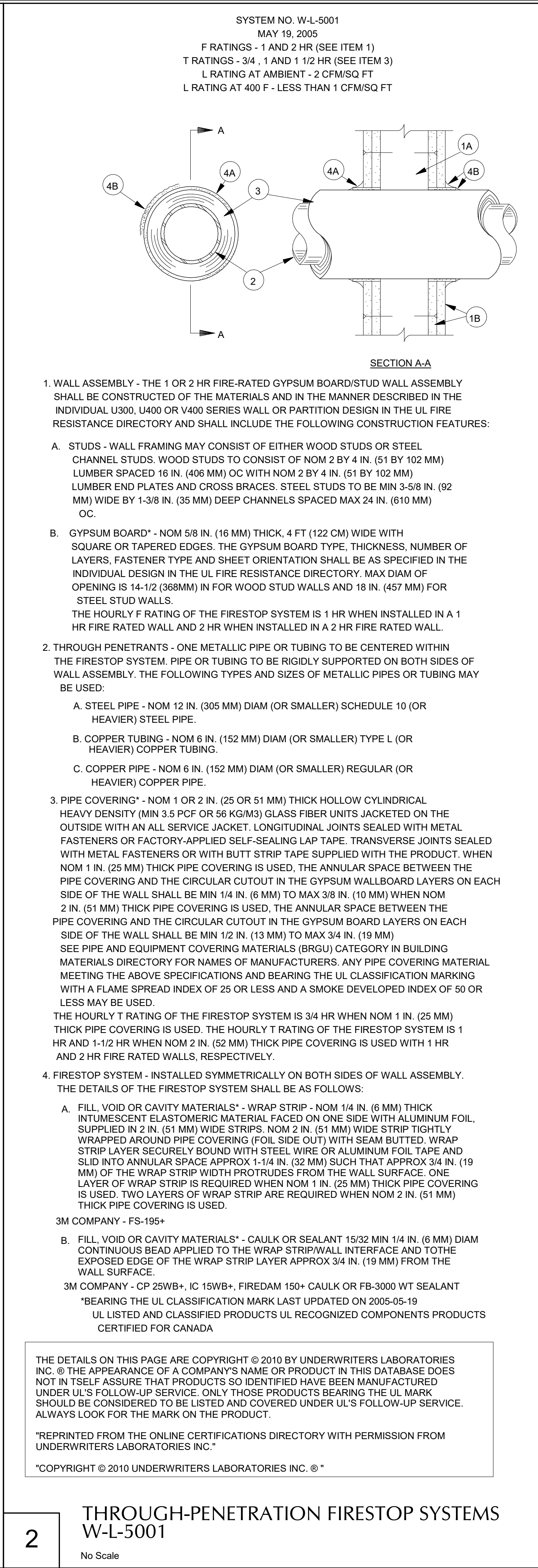
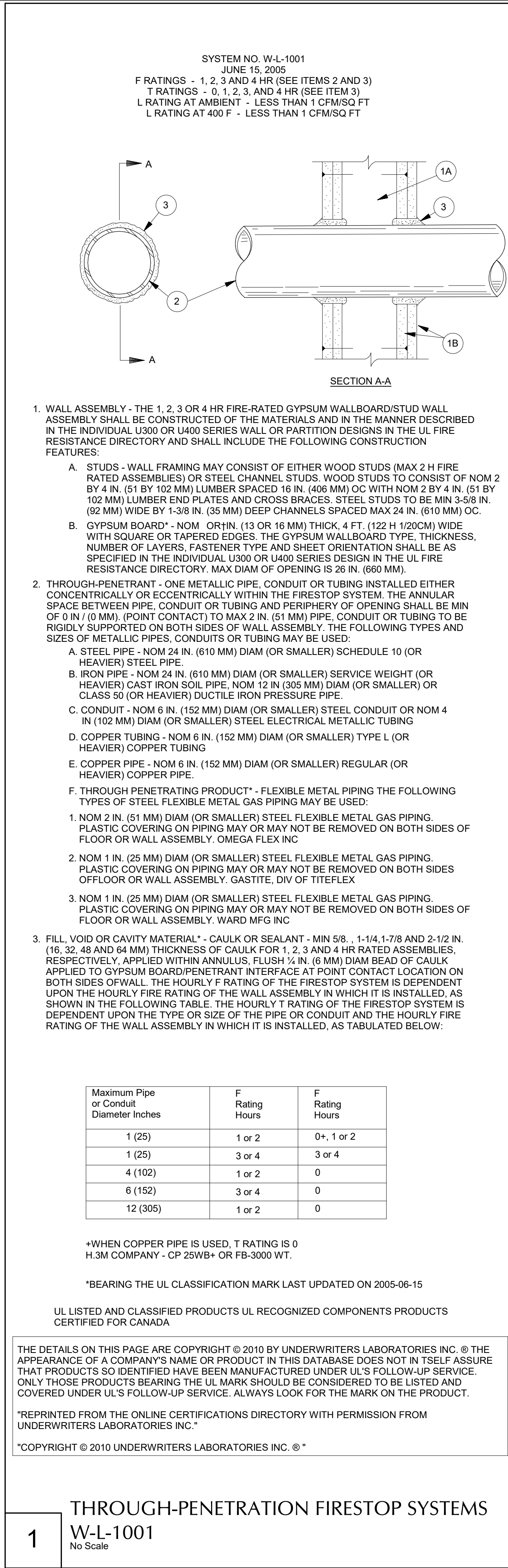
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PLUMBING -  
SCHEDULES &  
NOTES

P001



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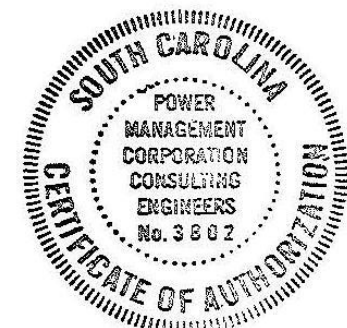
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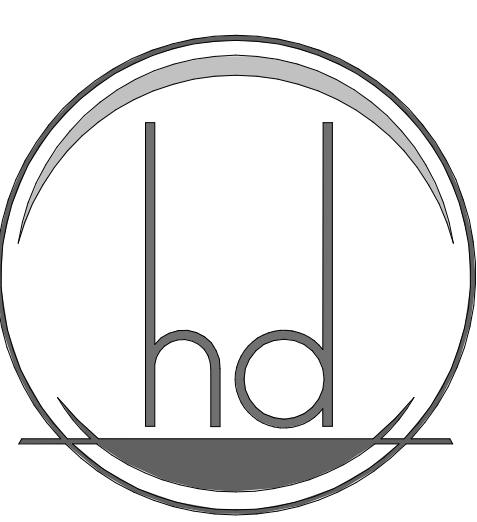
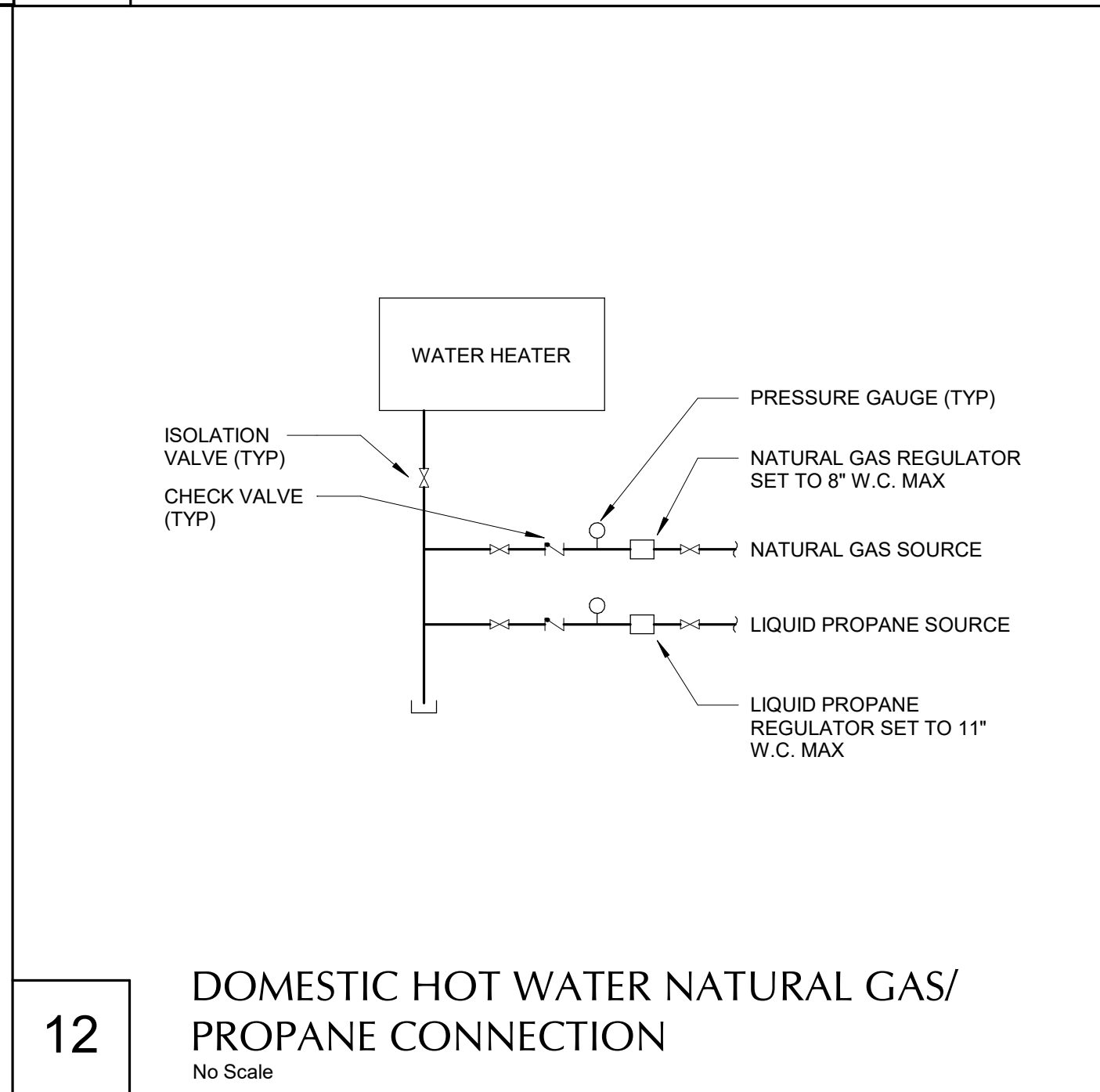
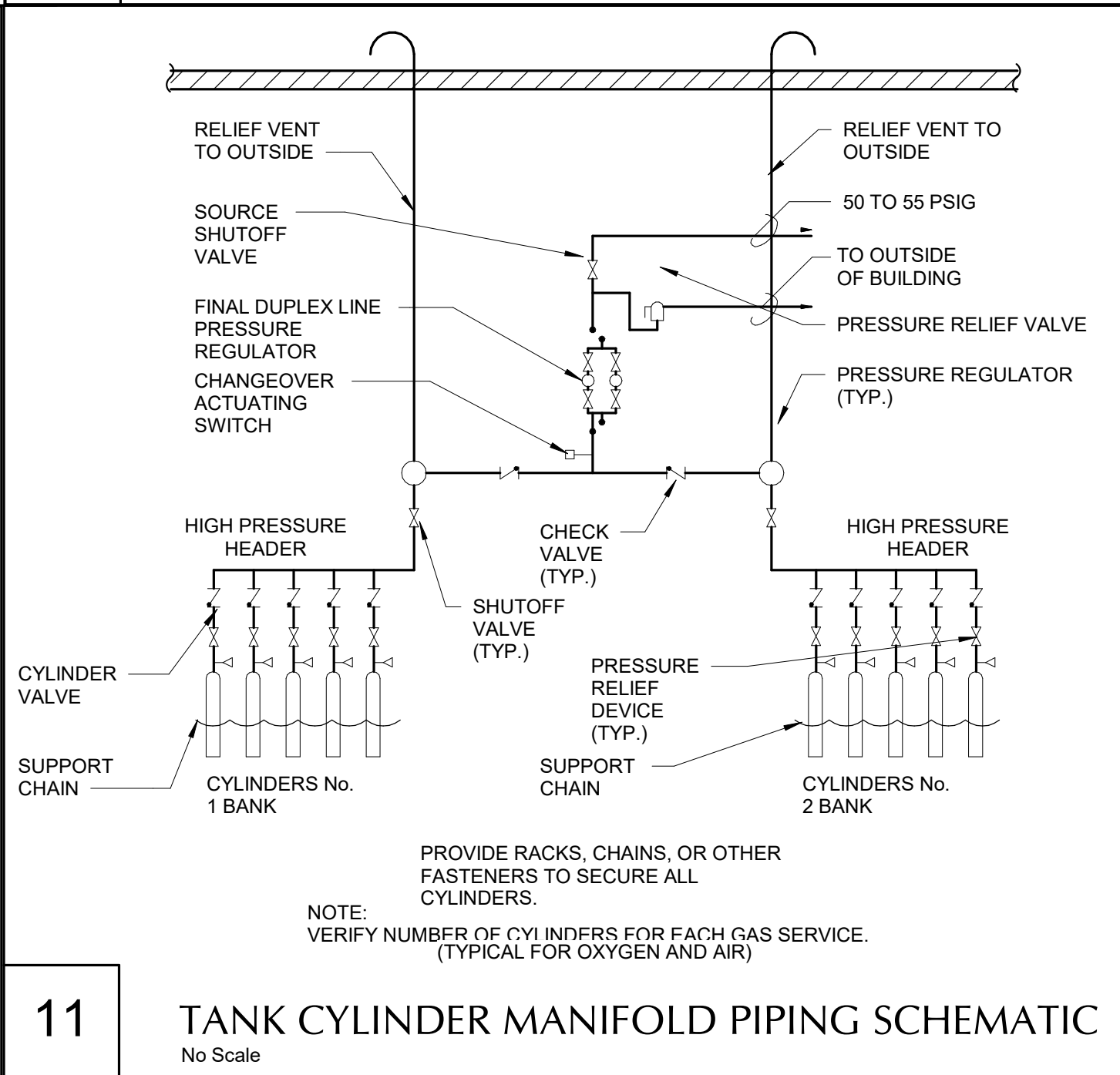
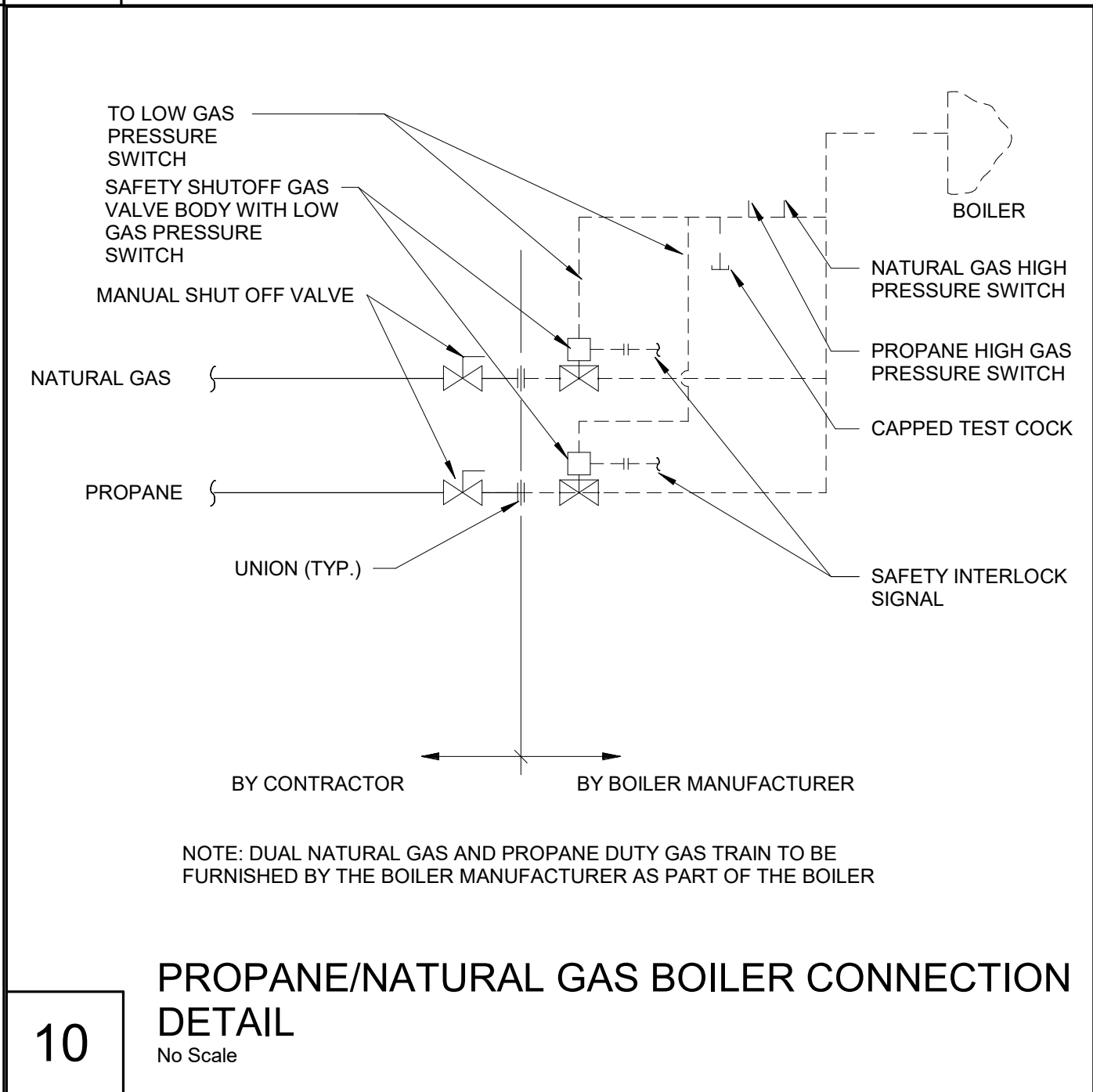
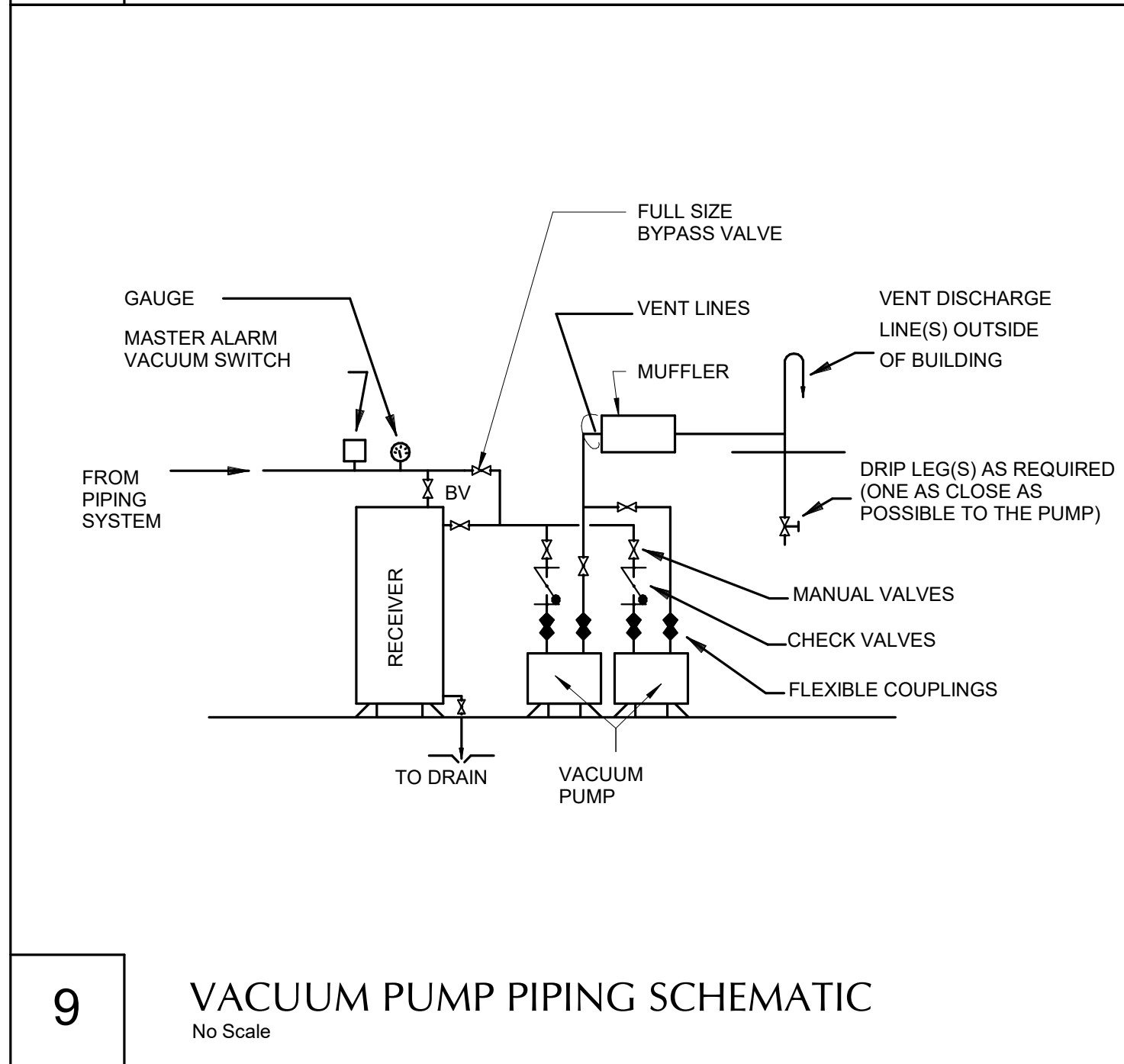
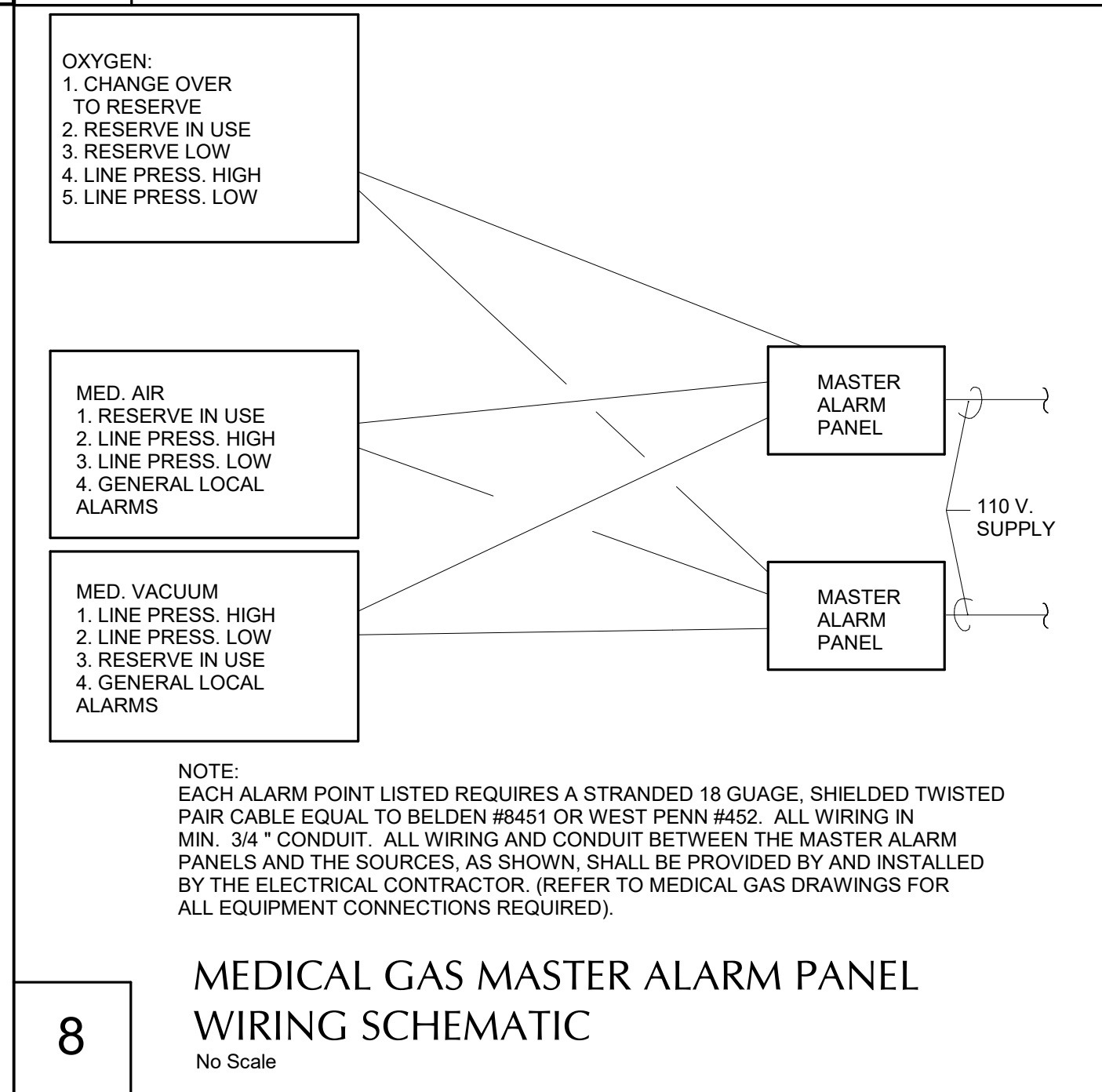
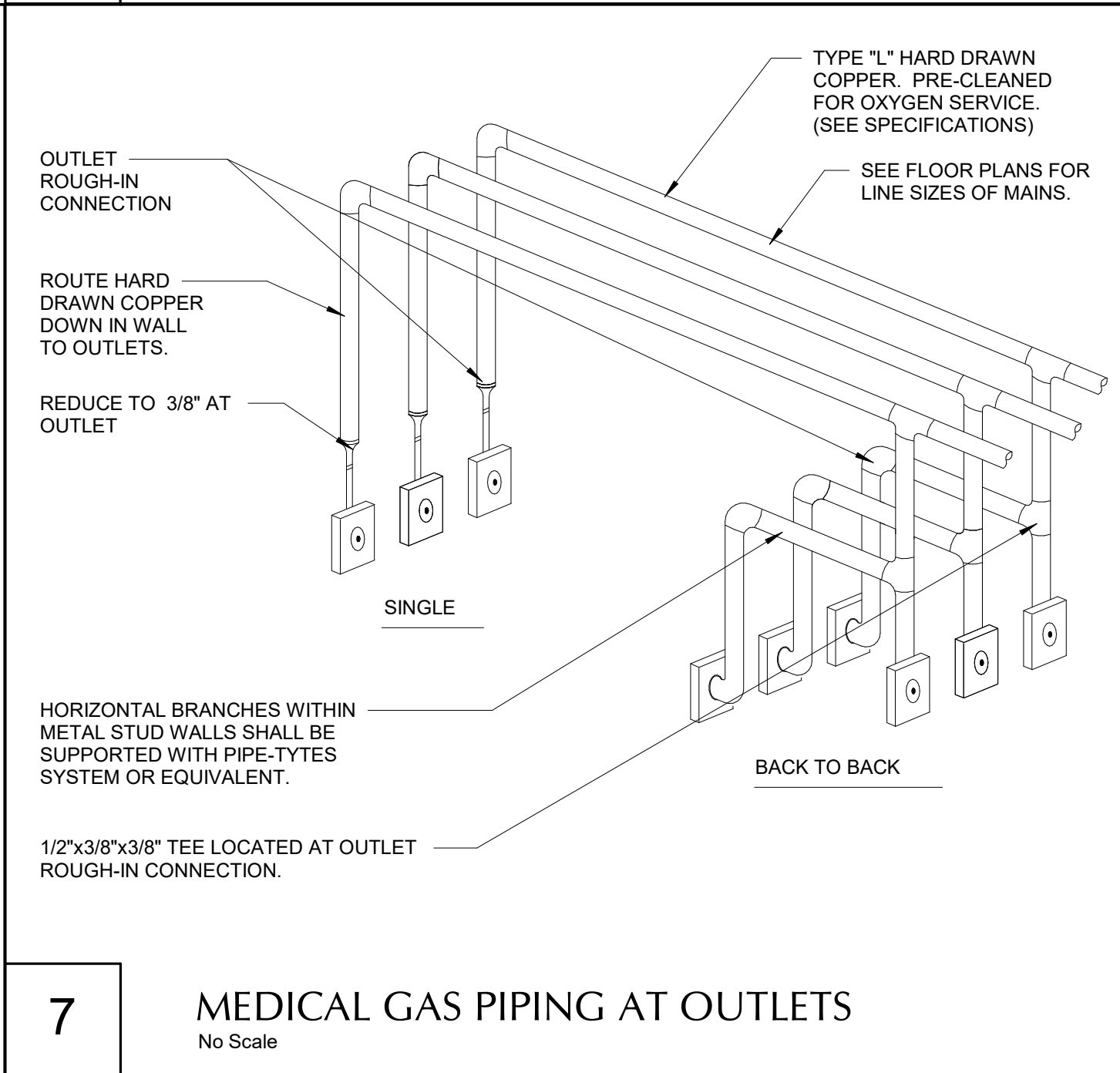
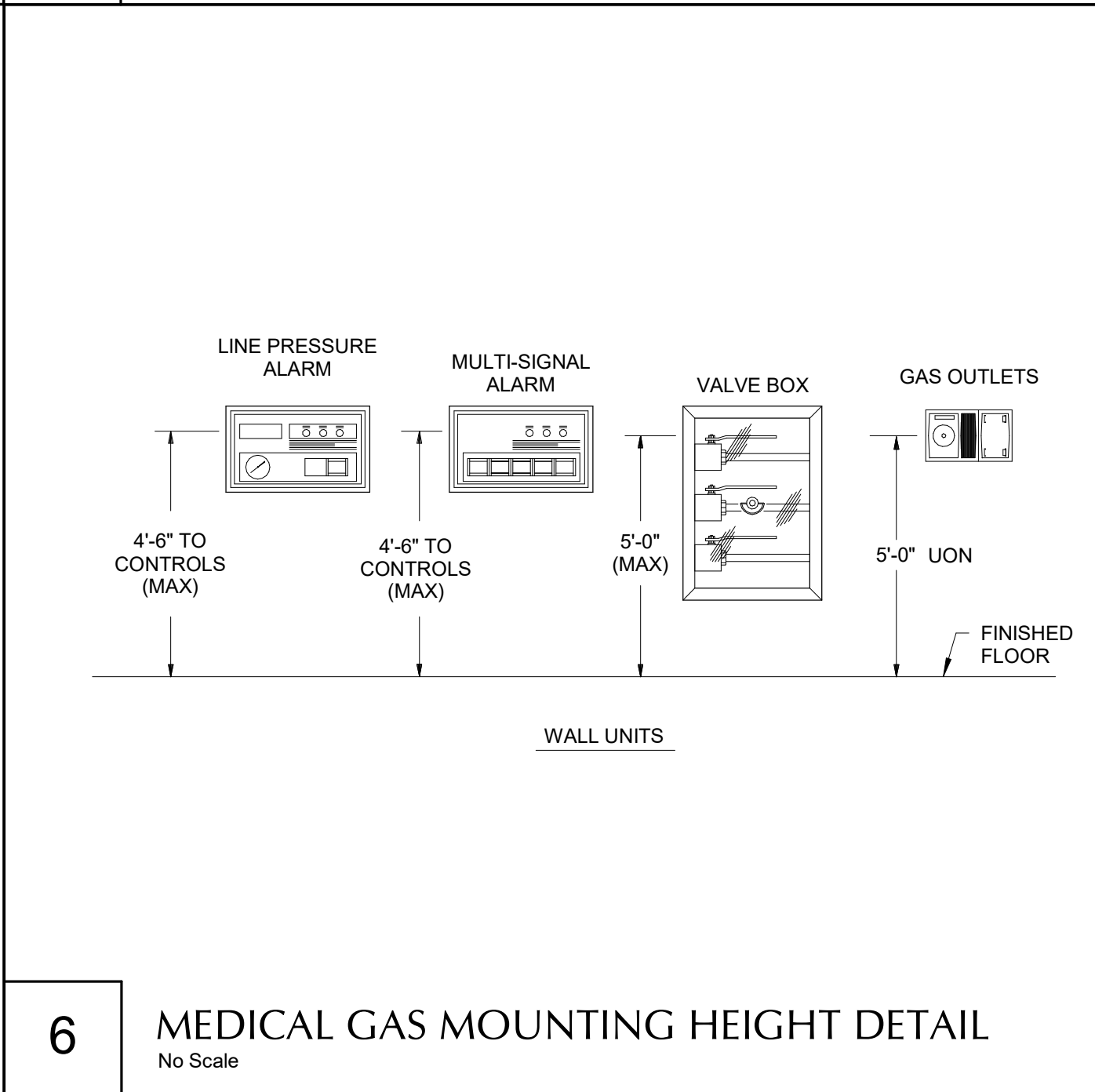
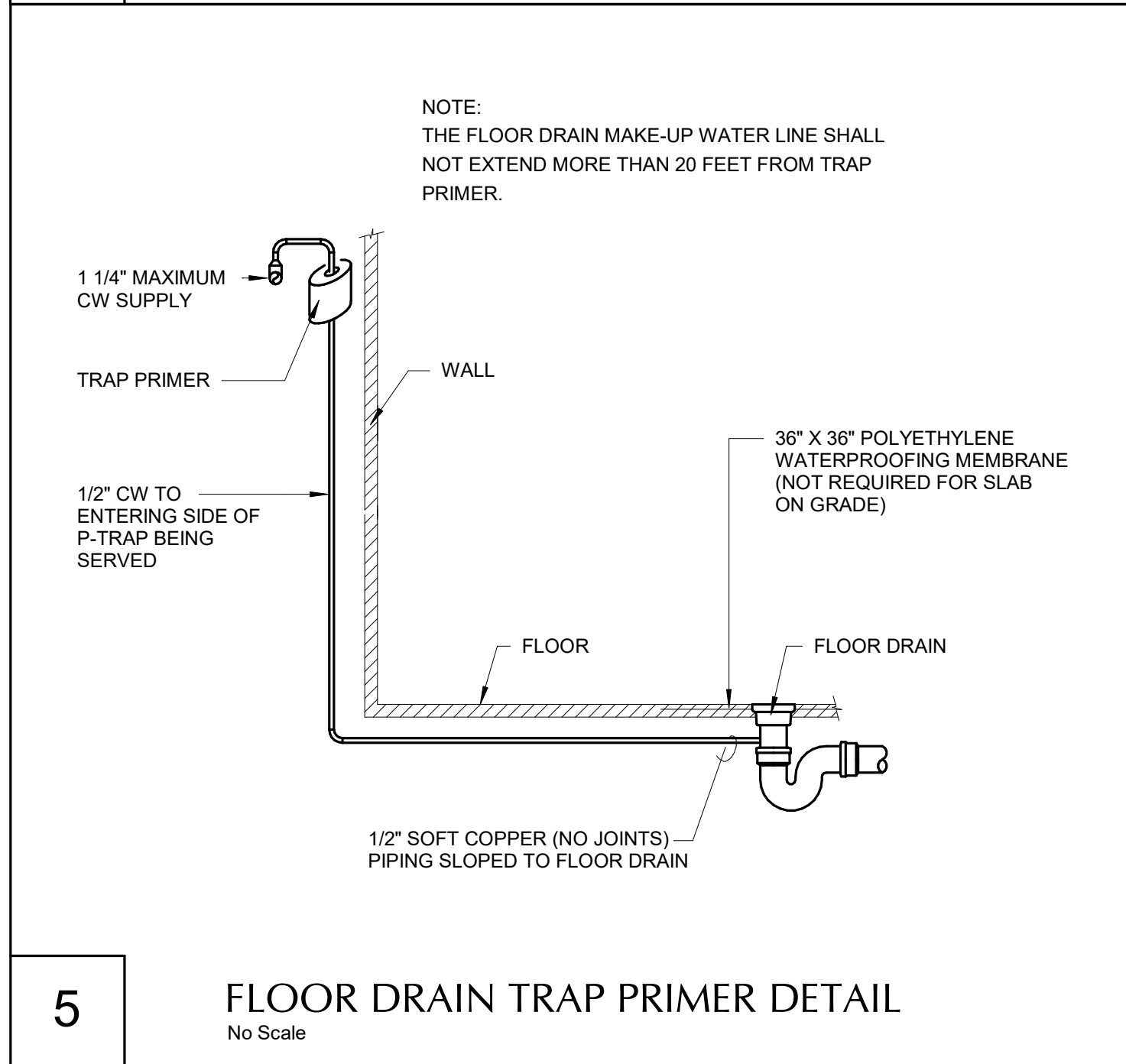
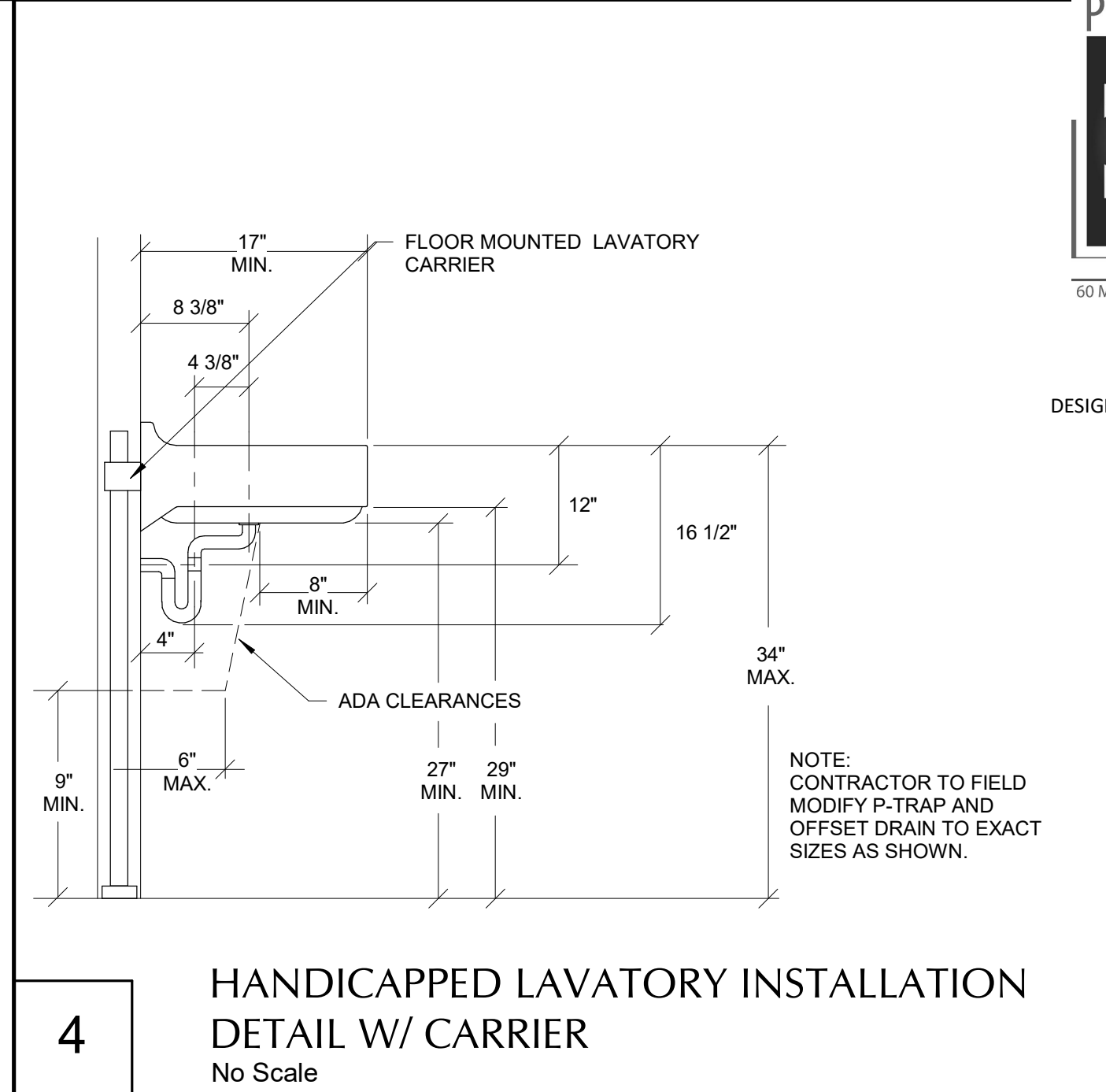
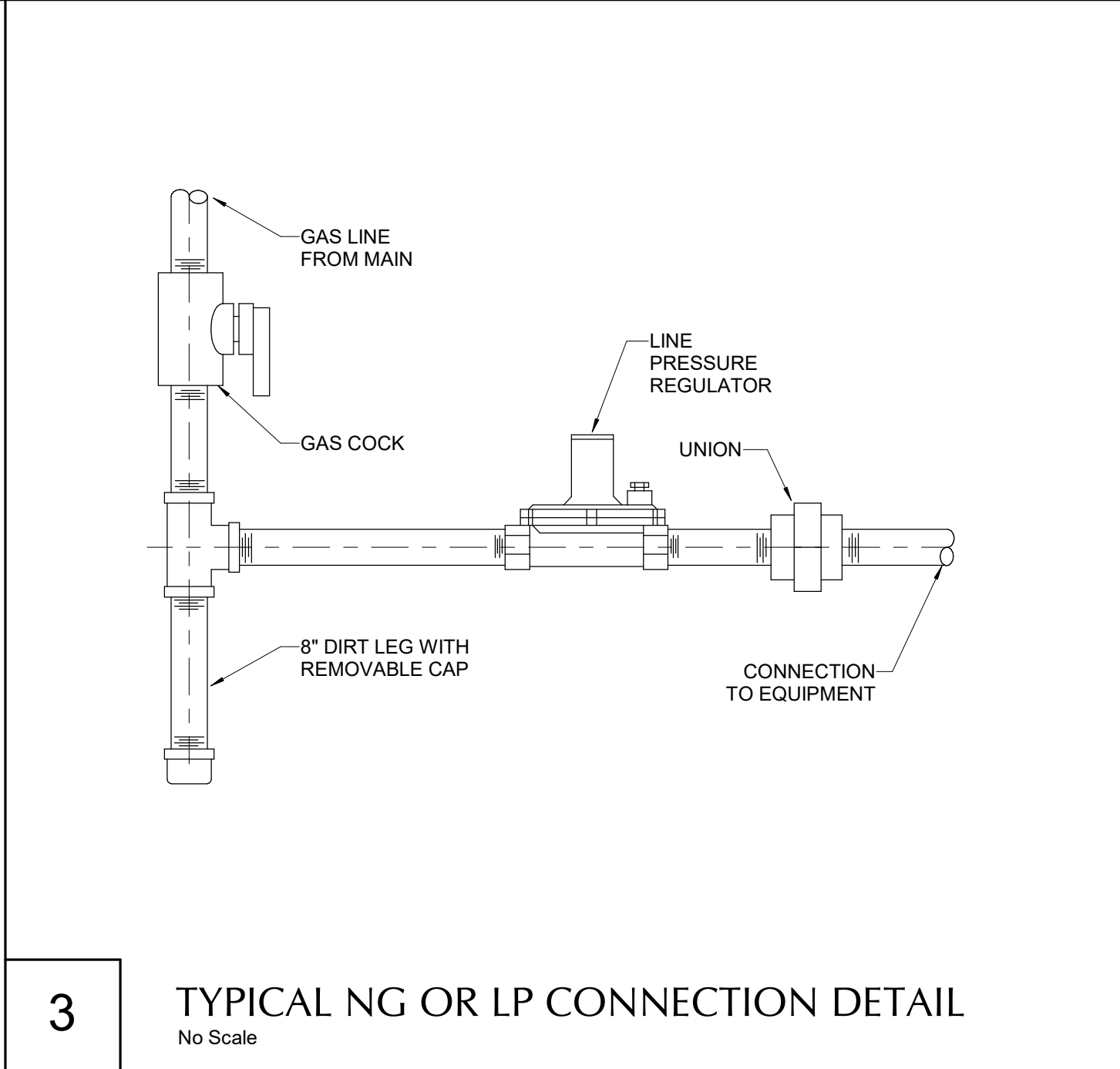
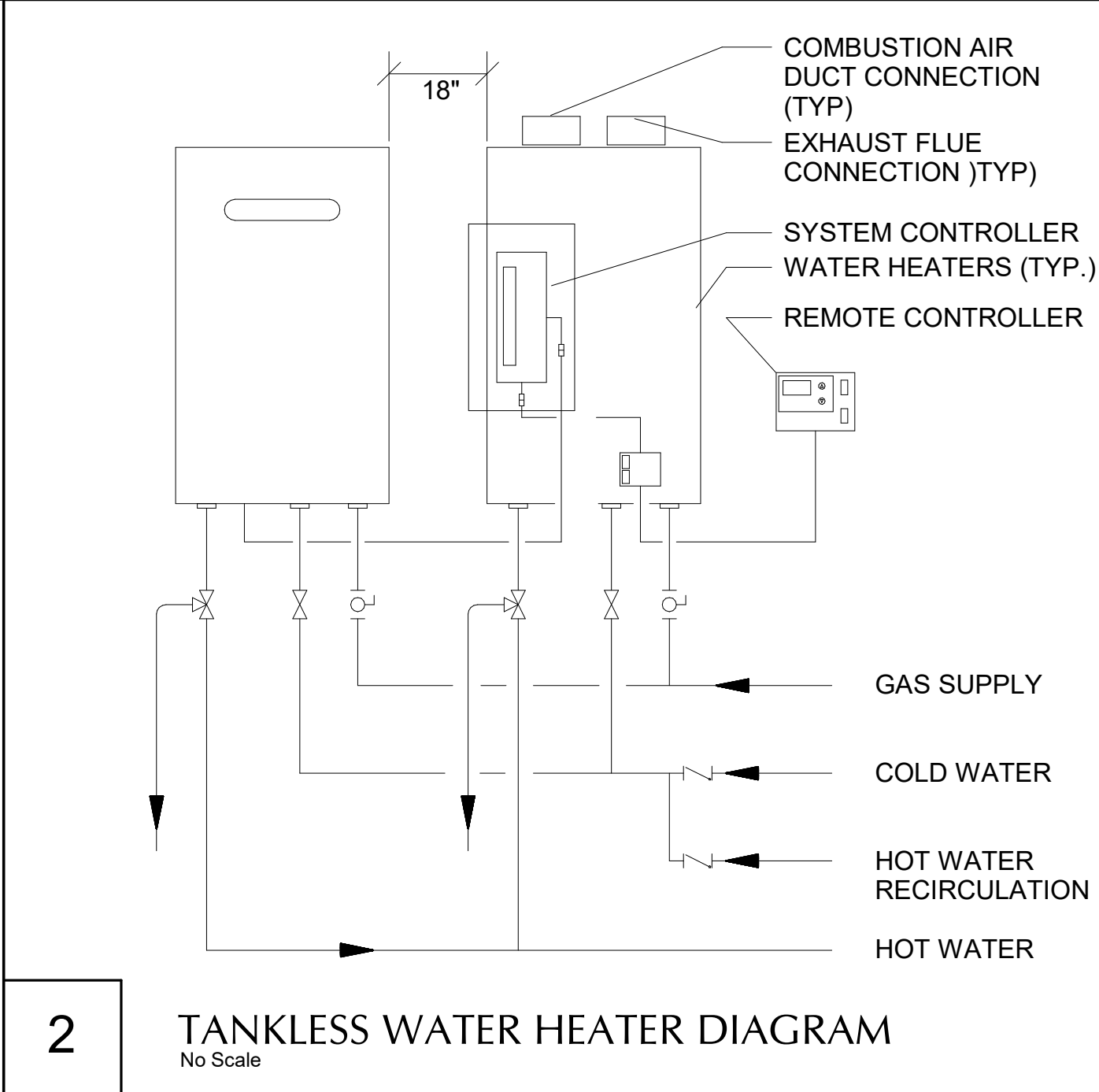
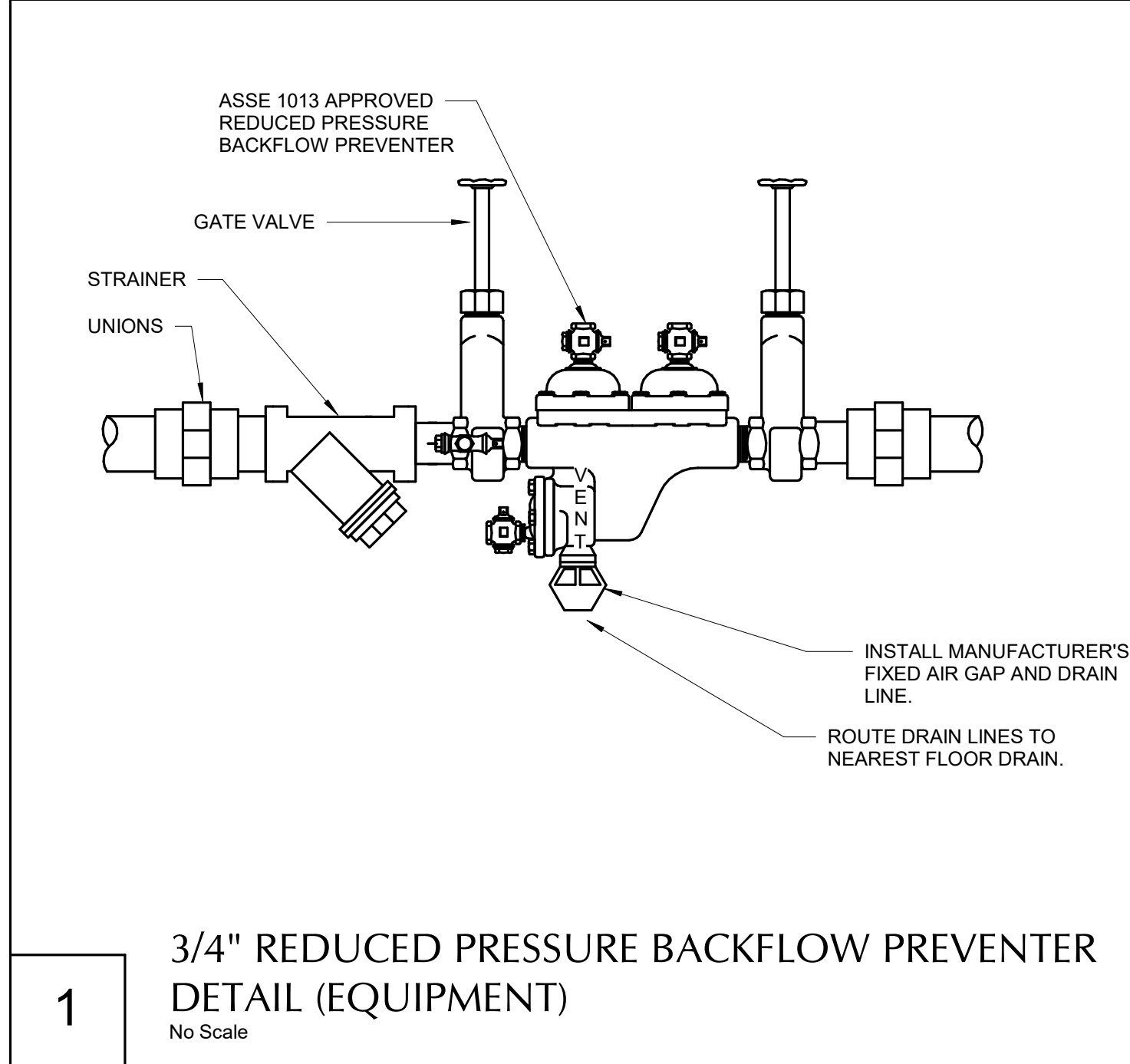
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## PLUMBING - DETAILS

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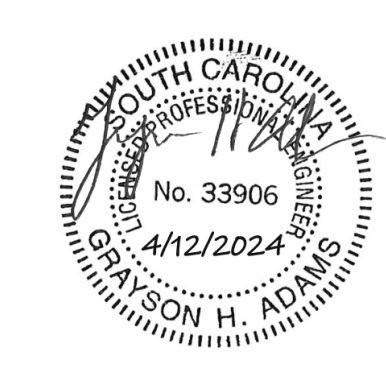
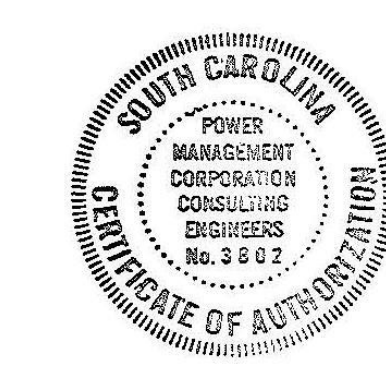


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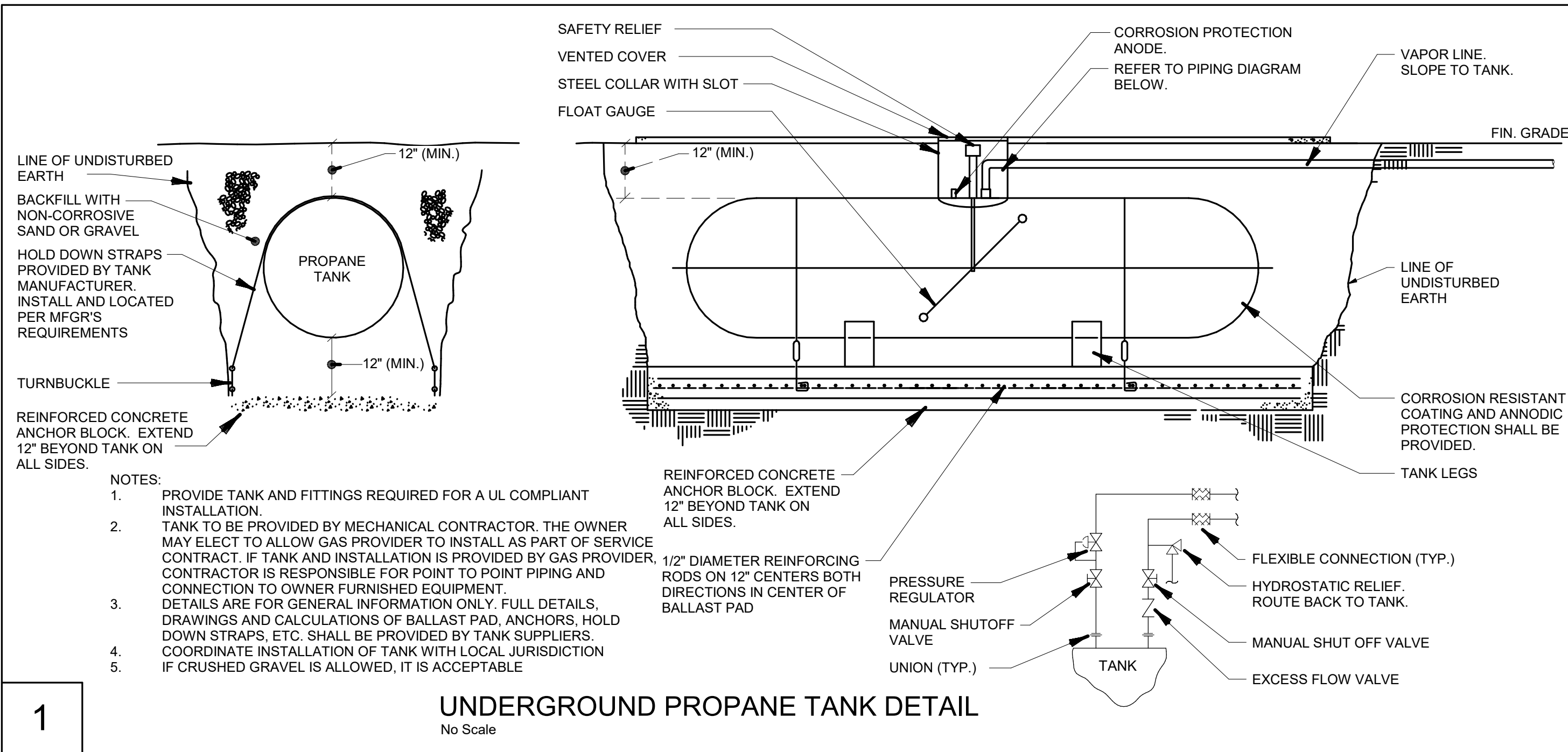
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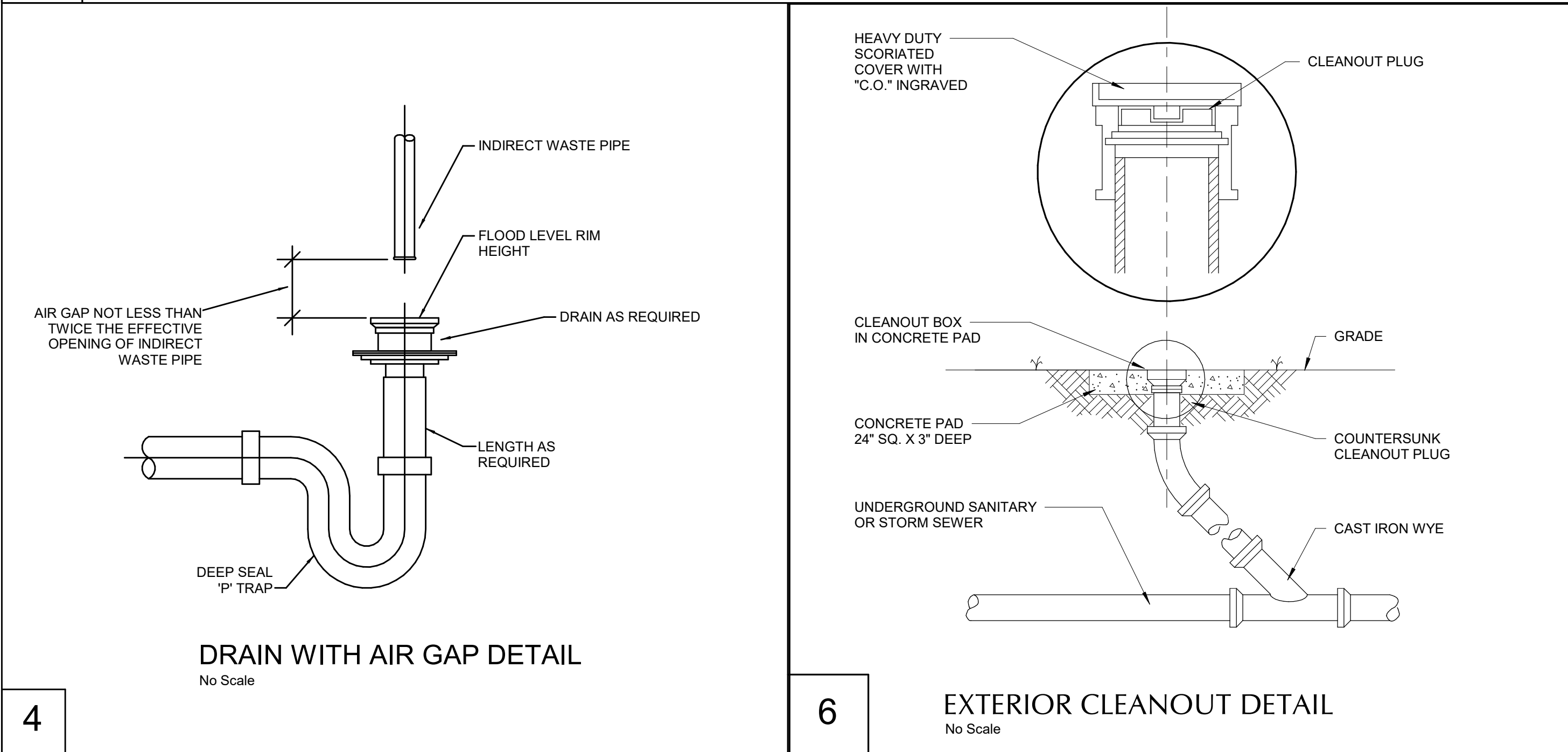
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1 UNDERGROUND PROPANE TANK DETAIL

No Scale

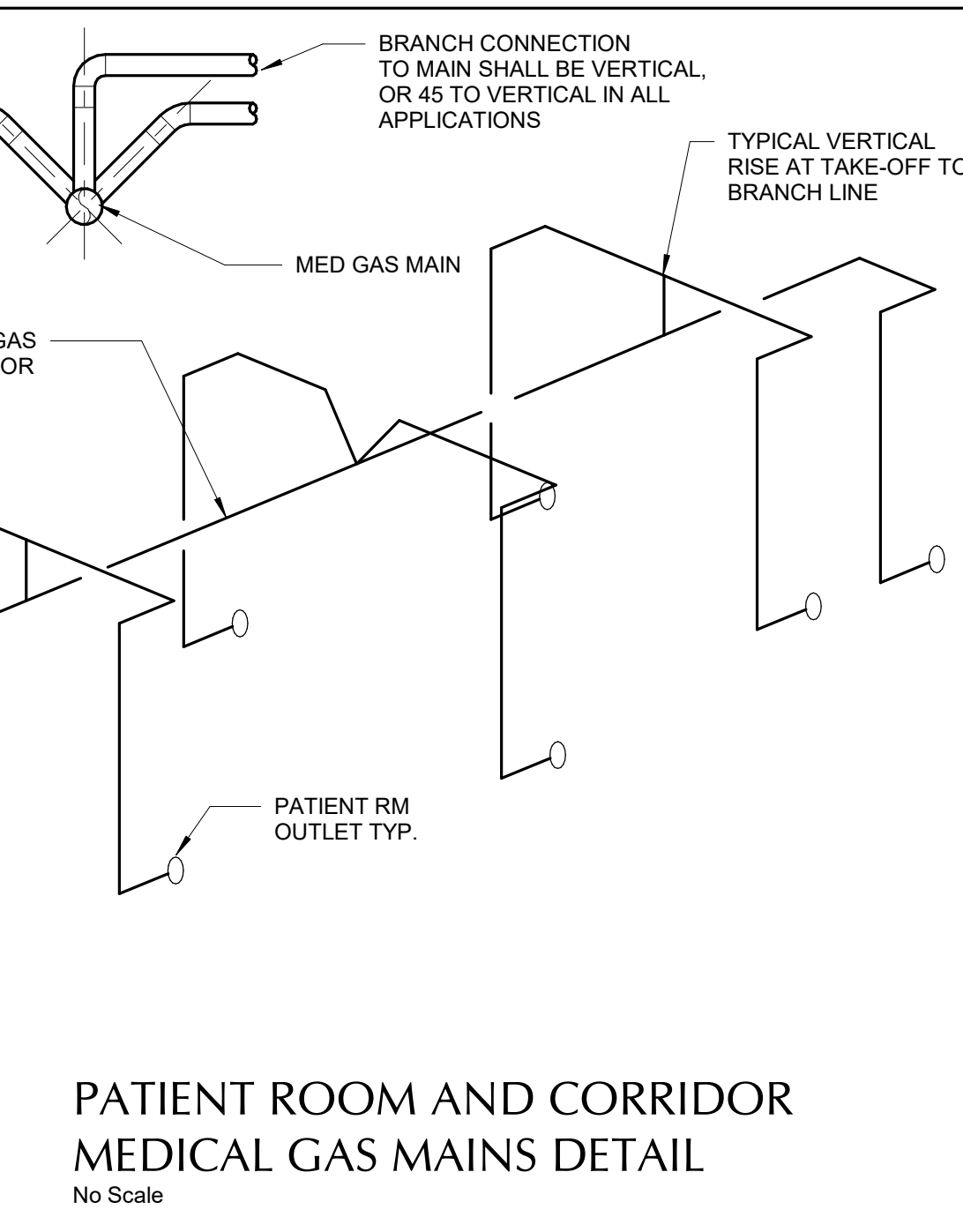


4 DRAIN WITH AIR GAP DETAIL

No Scale

6 EXTERIOR CLEANOUT DETAIL

No Scale

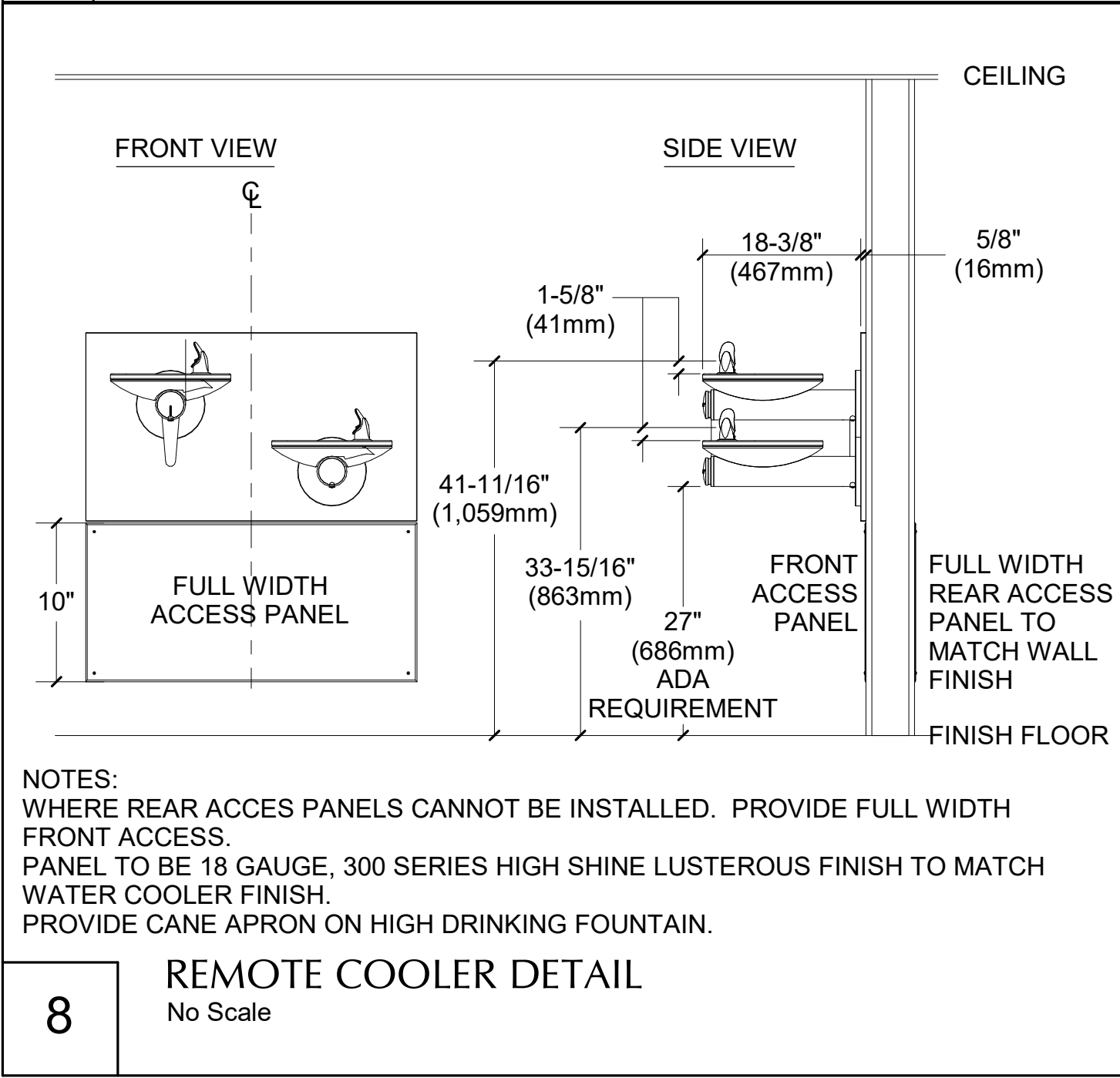


2 PATIENT ROOM AND CORRIDOR MEDICAL GAS MAINS DETAIL

No Scale

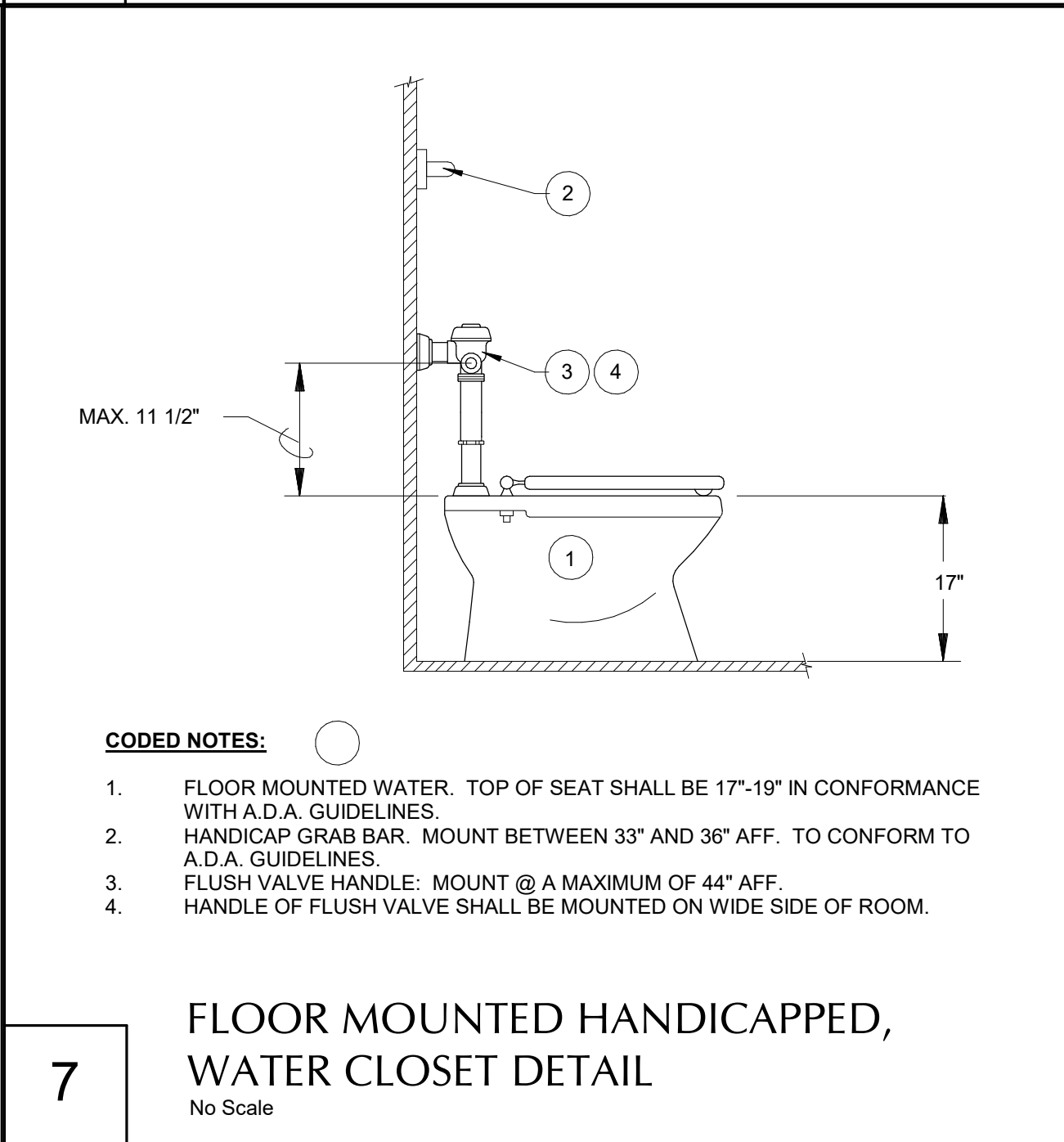
3 ROOF DRAIN INSULATION DETAIL

No Scale



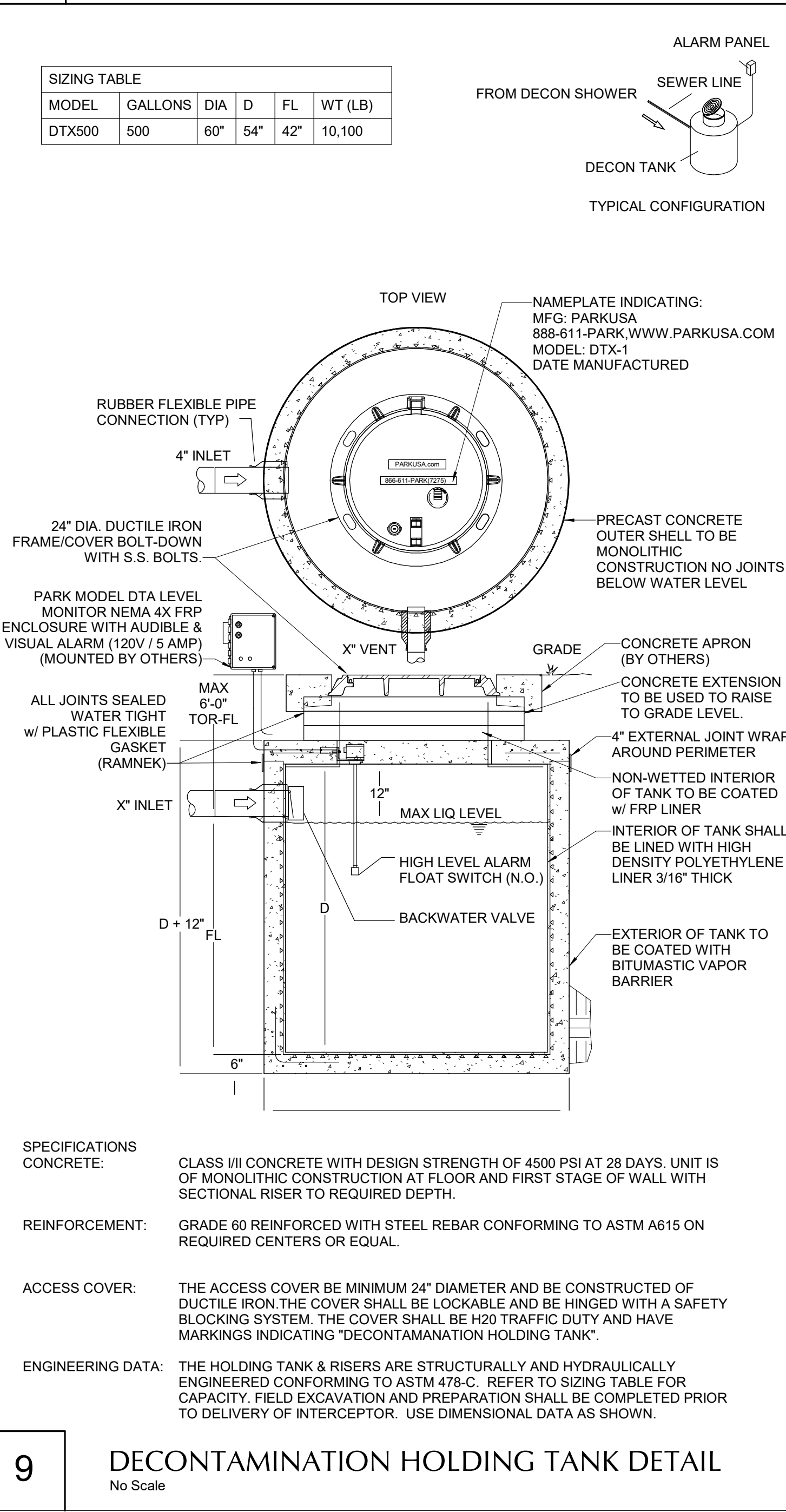
8 REMOTE COOLER DETAIL

No Scale



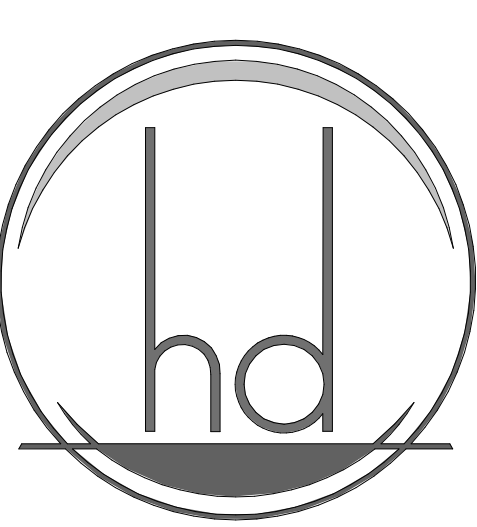
7 FLOOR MOUNTED HANDICAPPED, WATER CLOSET DETAIL

No Scale



9 DECONTAMINATION HOLDING TANK DETAIL

No Scale



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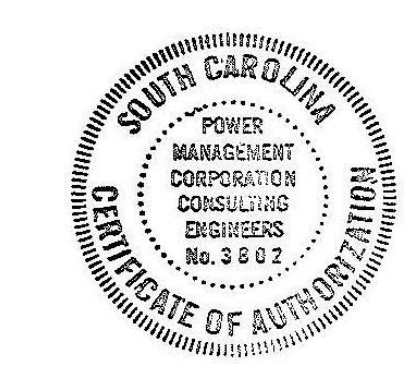
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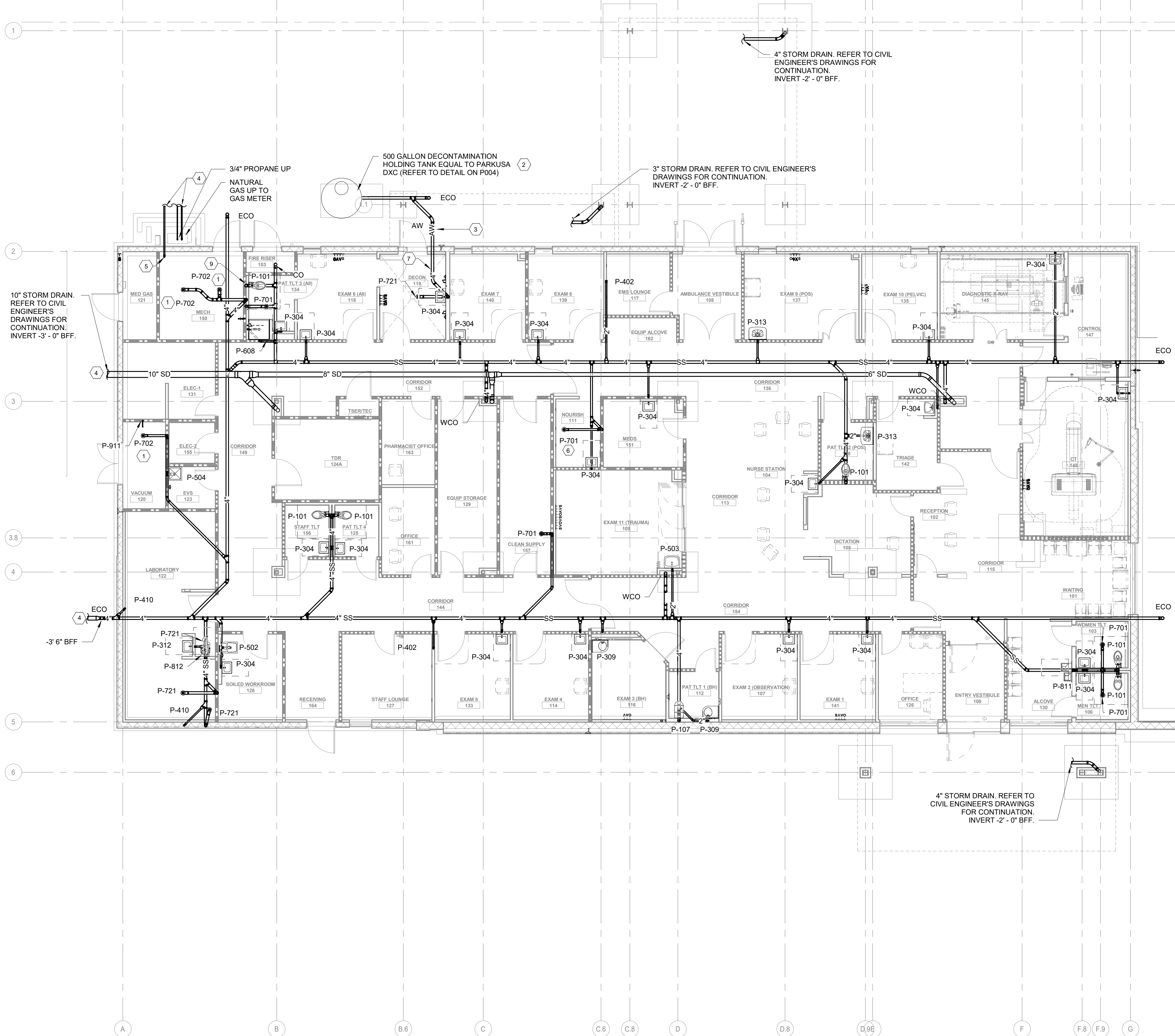
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PLUMBING - DETAILS

P004

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## PARTITION FIRE RATING LEGEND

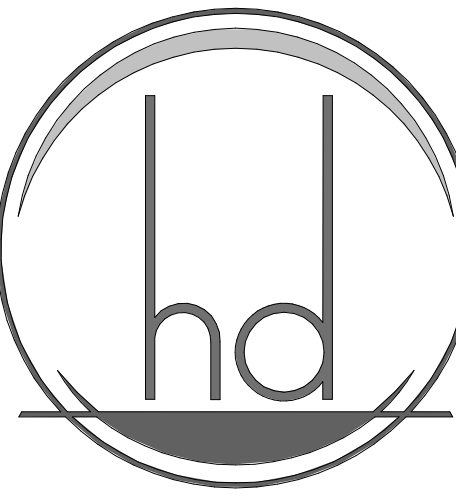
PLAN NOTATION	PER NFPA 170 (Table 6.3.3)	DEFINITION
	- S -	SMOKE PARTITION
	- ♦ - ♦ - ♦ -	1-HR FIRE BARRIER (UL U465)
	- ♦ S - ♦ S -	1-HR FIRE/SMOKE BARRIER (UL U465)
	- ♦ ♦ - ♦ ♦ -	2-HR FIRE BARRIER (UL U406)
		NON-RATED INTERIOR PARTITION

## GENERAL NOTES

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- COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND OTHER DISCIPLINES PRIOR TO CONSTRUCTION.
- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- ALL SANITARY WASTE PIPING SHALL BE PROVIDED WITH CLEANOUTS NOT MORE THAN 100' APART.

## KEY NOTES

- COORDINATE LOCATION OF FLOOR DRAIN WITH EQUIPMENT PAD LAYOUT.
- COORDINATE LOCATION OF DECONTAMINATION TANK WITH UTILITIES PRIOR TO COMMENCING WORK TO AVOID CONFLICTS. REFER TO CIVIL SITE UTILITY PLAN.
- PIPE FROM DRAIN TO DECON TANK TO BE ORION CHEMICAL RESISTANT PVDF PIPE.
- REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION.
- 2" COLD WATER LINE INTO BUILDING.
- COORDINATE LOCATION OF FLOOR DRAIN WITH CASEWORK LAYOUT.
- ALL PIPING CONNECTED TO DECON TANK SHALL BE ACID WASTE.



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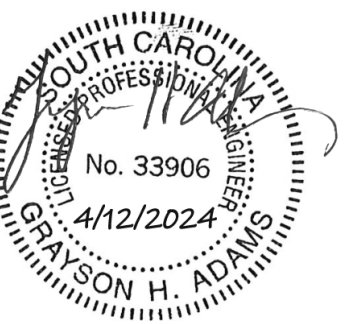
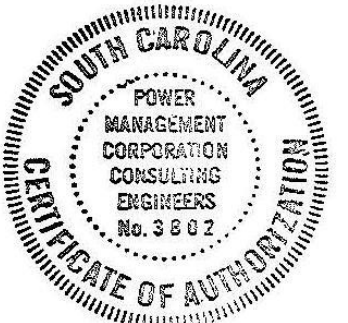
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PLUMBING -  
UNDERGROUND  
PLAN

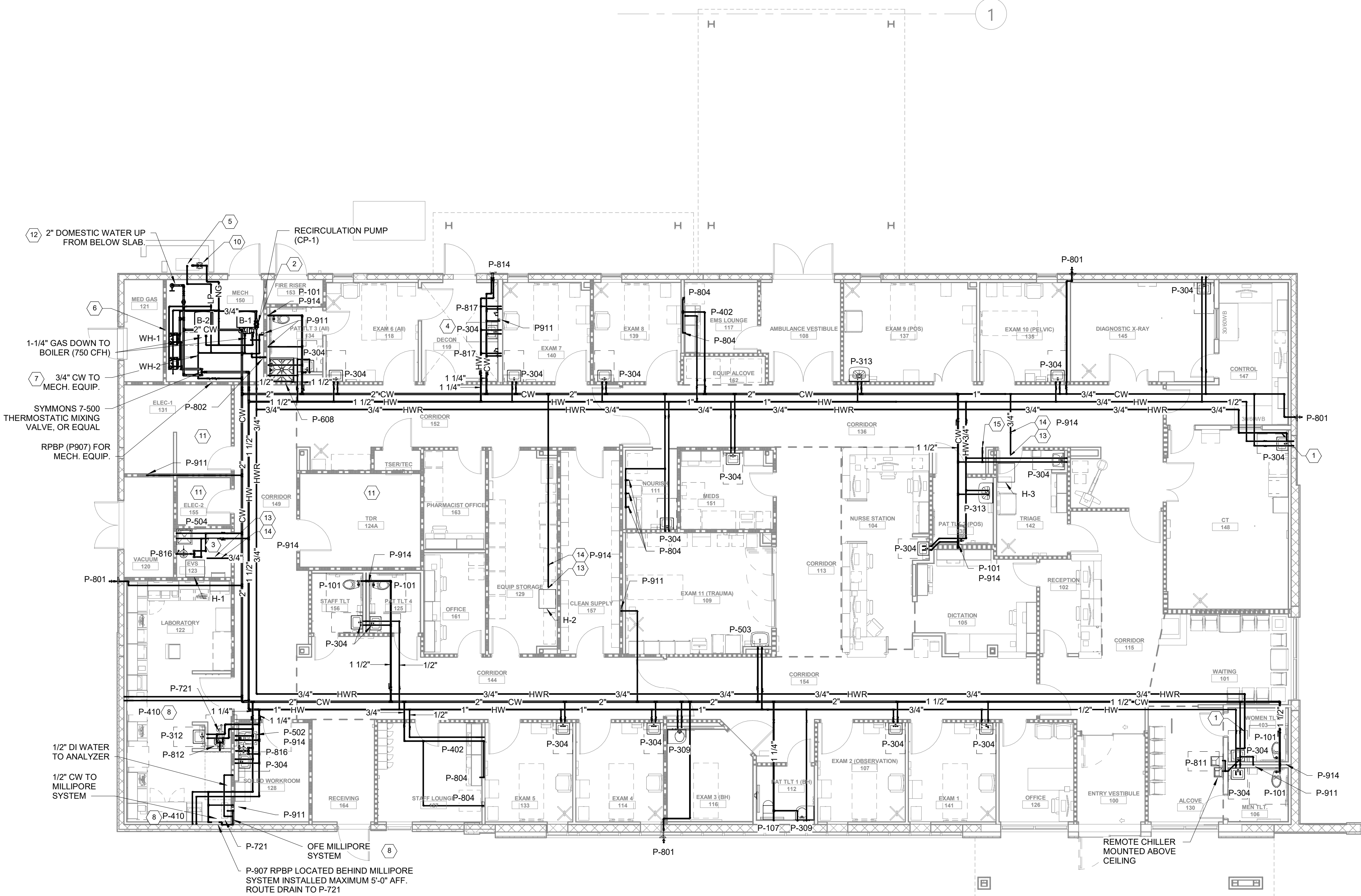
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1 PLUMBING - UNDERGROUND PLAN  
1/8" = 1'-0"





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1 PLUMBING - FIRST FLOOR PLAN  
1/8" = 1'-0"



### PARTITION FIRE RATING LEGEND

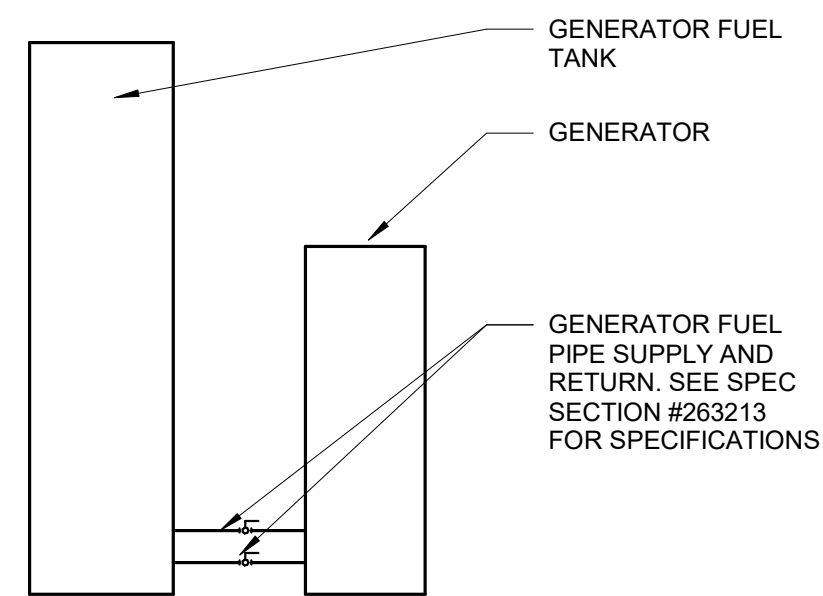
PLAN NOTATION	PER NFPA 170 (Table 6.3.3)	DEFINITION
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	- ♦ -	1-HR FIRE BARRIER (UL U465)
	- ♦ S -	1-HR FIRE/SMOKE BARRIER (UL U465)
	- ♦ S -	2-HR FIRE BARRIER (UL U406)
		NON-RATED INTERIOR PARTITION

### GENERAL NOTES

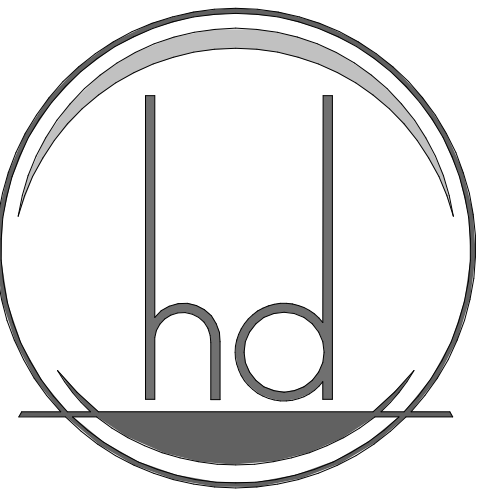
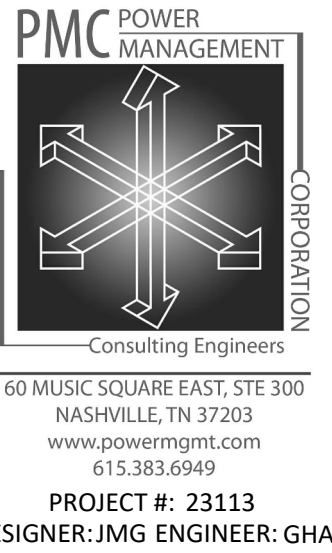
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- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- PROVIDE SHUT-OFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES NEAR MAIN LINE CONNECTION.
- UNLESS OTHERWISE NOTED, ALL DOMESTIC COLD AND HOT WATER PIPING SHALL BE 1/2" SIZE.
- UNLESS OTHERWISE NOTED, ALL DOMESTIC COLD WATER PIPING TO FLUSH VALVE FIXTURES SHALL BE A MINIMUM OF 1" SIZE.

### KEY NOTES

- PROVIDE AND INSTALL HOT WATER RECIRCULATION BALANCE VALVE AT THIS LOCATION. SET TO 2 GPM.
- 3/4" UP TO ROOF HYDRANT P-819. PROVIDE SHUT-OFF VALVE IN VERTICAL. ROUTE DRAIN PORT PIPING TO FLOOR DRAIN IN MECHANICAL ROOM.
- COORDINATE PIPING WITH ROOF ACCESS. DO NOT BLOCK ACCESS TO ROOF.
- CONNECT ANALYZER WATER AND DRAIN LINE TO P-410. CONNECT DRAIN TO TAILPIECE ABOVE P-410 P-TRAP.
- 3/4" 10 PSI PROPANE LINE UP FROM BELOW WITH EMERGENCY SHUT OFF VALVE TO REGULATOR. LINE PRESSURE SHALL BE 2 PSI DOWNSTREAM OF REGULATOR. ROUTE PROPANE LINE TO BOILER CONNECTION.
- WH-1 AND WH-2. PROVIDE 18" CLEAR ON ALL SIDES OF ASSEMBLY. MOUNT MINIMUM 5'-0" AFF. REFER TO DETAILS AND SCHEDULE FOR CLARIFICATION.
- CONNECT 3/4" NON-POTABLE WATER TO BOILER MAKE UP WATER CONNECTION. SEE MECHANICAL DETAILS FOR BOILER MAKE UP WATER.
- CONNECT WATER TO ANALYZER FROM MILLIPORE UNIT AND ROUTE DRAIN TO DRAIN WITH AIR GAP PER MANUFACTURERS RECOMMENDATION.
- PROVIDE TRUEBRO SHROUD, OR EQUAL, TO CONCEAL P-TRAP, SUPPLIES, AND STOPS.
- GAS METER. CONTRACTOR SHALL ARRANGE AND COORDINATE WITH LOCAL GAS UTILITY FOR METER AND SERVICE AT THIS LOCATION. CONTRACTOR TO PAY ALL CHARGES, IF ANY, FOR THE GAS LOAD.
- DO NOT ROUTE ANY PIPING ABOVE TDR 124A OR ELEC.
- 2" CW FROM BELOW. PROVIDE PRESSURE REDUCING VALVE NOT TO EXCEED 80 PSI AND BUILDING SHUT-OFF VALVE IN VERTICAL RISE.
- PROVIDE BACKFLOW PREVENTION DEVICE, ZURN 700XL, OR EQUAL.
- CONNECT 3/4" CW WITH SHOCK ABSORBER TO HUMIDIFIER. VERIFY FINAL LOCATION WITH HVAC DRAWINGS.
- 3/8" CW LINE TO DRAIN COOLER. PROVIDE BACKFLOW PREVENTION DEVICE. ZURN 700XL, OR EQUAL.



2 ENLARGED GENERATOR ENCLOSURE  
1/8" = 1'-0"



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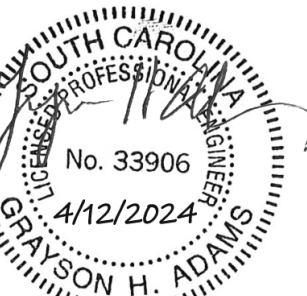
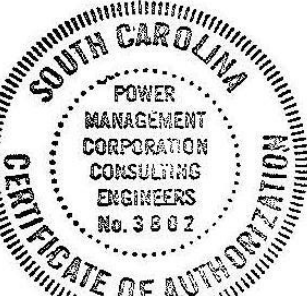
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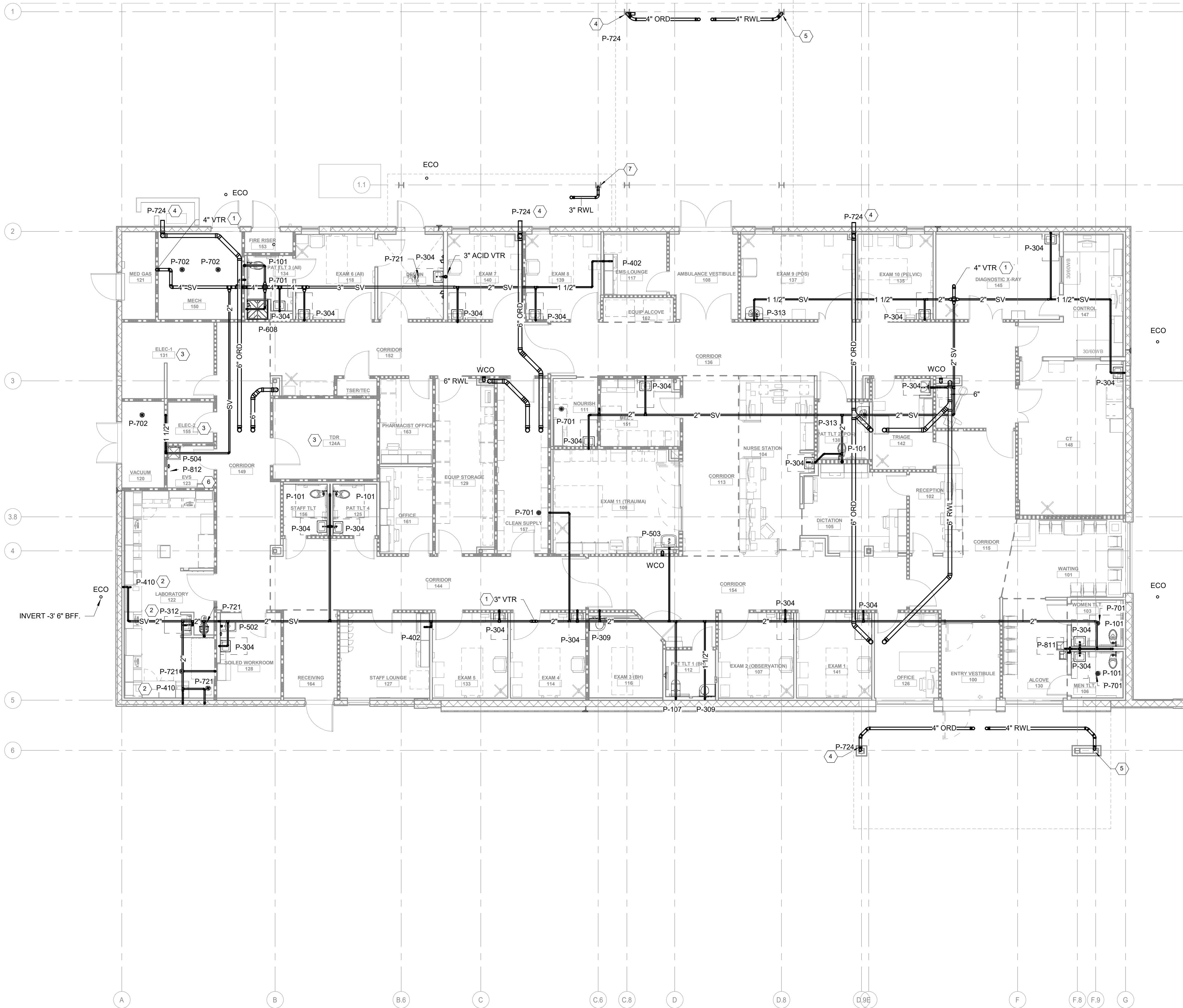
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PLUMBING - FIRST  
FLOOR PLAN

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PARTITION FIRE RATING LEGEND

PLAN NOTATION	PER NFPA 170 (Table 6.3.3)	DEFINITION
	- S -	SMOKE PARTITION
	- ♦ - ♦ - ♦ -	1-HR FIRE BARRIER (UL U465)
	- ♦ S - ♦ S -	1-HR FIRE/SMOKE BARRIER (UL U465)
	- ♦♦ - ♦♦ - ♦♦ -	2-HR FIRE BARRIER (UL U408)
	-	NON-RATED INTERIOR PARTITION

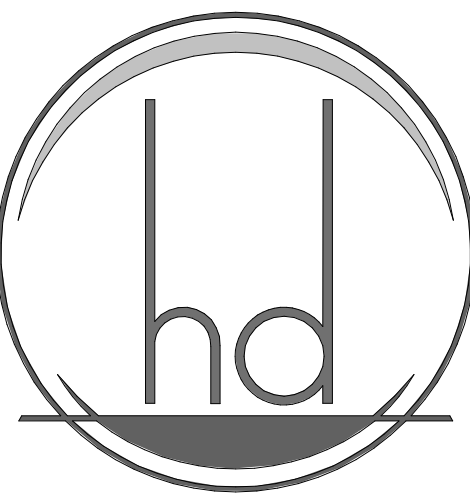
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- CONTRACTOR SHALL OFFSET ALL VENTS THRU ROOF AS REQUIRED TO MAINTAIN 25'-0" MIN. SEPARATION FROM ROOF TOP UNIT FRESH AIR INTAKE.

KEY NOTES

- MAINTAIN A 25'-0" MINIMUM SEPARATION BETWEEN VENT OUTLETS AND OUTSIDE AIR INTAKES. COORDINATE LOCATIONS WITH MECHANICAL PRIOR TO COMMENCING WORK.
- ROUTE ORION CHEMICAL RESISTANT PVDF PIPE FROM SINK TO ORION DT1 DRUM TRAP.
- DO NOT ROUTE ANY PIPING ABOVE THIS ROOM.
- INSTALL DOWNSPOUT NOZZLE 1'-4" ABOVE FINISHED GRADE AND SPILL TO SPLASH BLOCK.
- DROP 4" RWL DN BELOW GRADE FOR CONTINUATION ON CIVIL SITE PLAN.
- COORDINATE PIPING WITH ROOF ACCESS. DO NOT BLOCK ACCESS TO ROOF.
- DROP 3" RWL DN BELOW GRADE FOR CONTINUATION ON CIVIL SITE PLAN.

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DESIGNER:JMG ENGINEER:GHA



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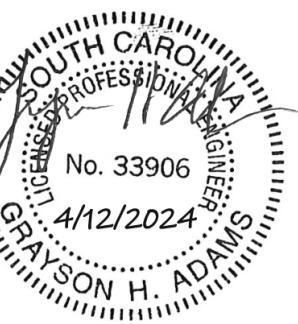
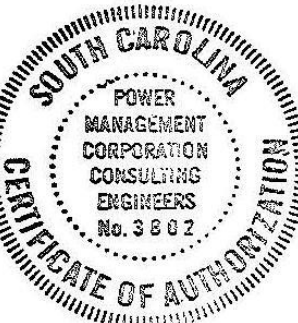
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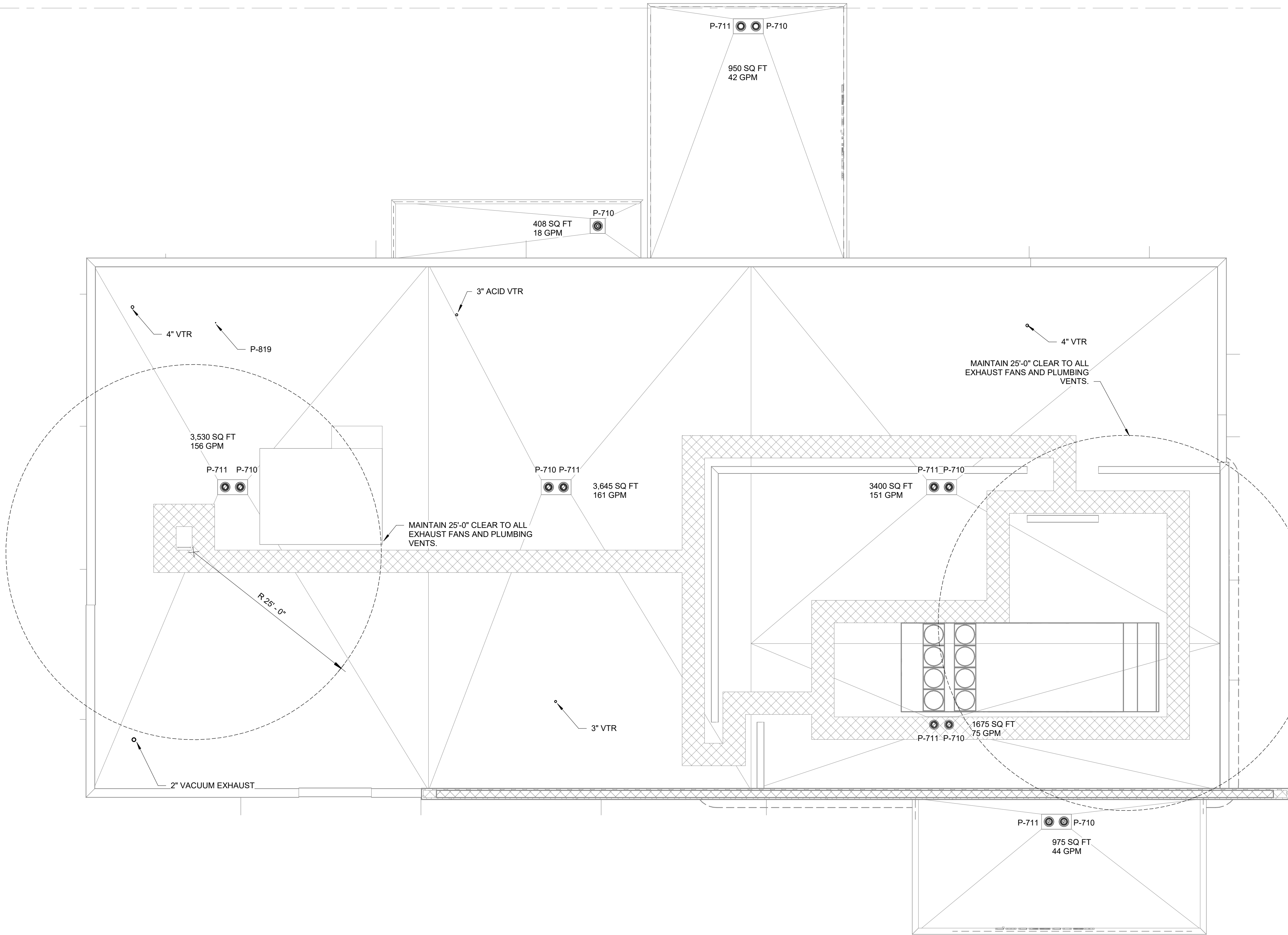
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SANITARY - FIRST  
FLOOR PLAN

SHEET

P201

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		NON-RATED INTERIOR PARTITION

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### 1 SANITARY - ROOF PLAN

1/8" = 1'-0"



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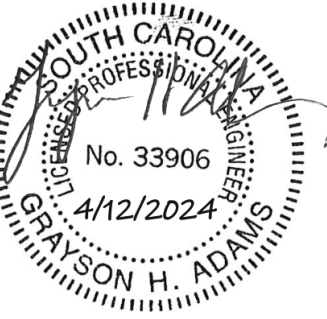
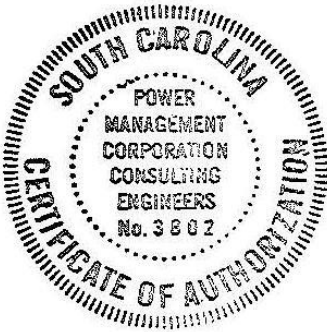
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SANITARY - ROOF PLAN

P202



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## PARTITION FIRE RATING LEGEND

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	- ♦ ♦ - ♦ ♦ -	2-HR FIRE BARRIER (UL U406)
		NON-RATED INTERIOR PARTITION

## GENERAL NOTES

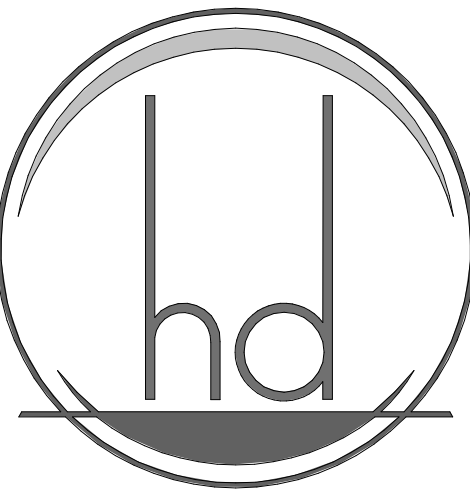
1. PER NFPA 99, SYSTEM SHALL BE CERTIFIED BY AN INDEPENDENT MEDICAL GAS TESTING AGENCY PRIOR TO USE OF THE SYSTEM.

## KEY NOTES

- COORDINATE LOCATION OF MASTER ALARM PANELS AND LOW PRESSURE ALARM PANELS WITH ARCHITECT.
- ROUTE WIRING FROM EACH SYSTEM (O<sub>2</sub>, V, A) TO LOW PRESSURE ALARM PANEL FOR ASSOCIATED ZONE. COORDINATE WITH DIV 26.
- ROUTE MANIFOLD VENT LINE SIZE UP THROUGH ROOF AND TERMINATE WITH SCREENED GOOSENECK. MAINTAIN 25'-0" FROM ANY FRESH AIR INTAKE.
- PROVIDE SERVICE SHUT-OFF VALVES IN ZONE CONTROL BOX.
- PROVIDE ANTI-LIGATURE CONSOLE SECURITY COVER FOR MED GAS CONNECTIONS. REFER TO ARCHITECTURAL DRAWINGS FOR HEADWALL LAYOUT AND SECURITY CONSOLE.

## 1 MED GAS - FIRST FLOOR PLAN

1/8" = 1'-0"



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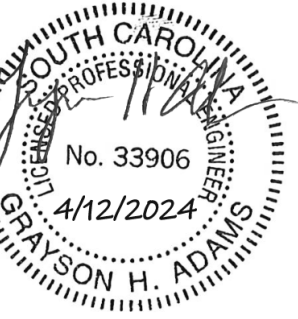
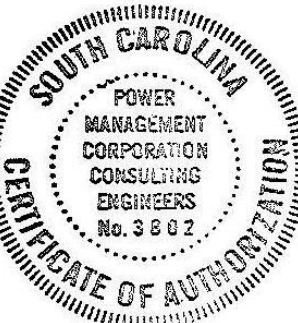
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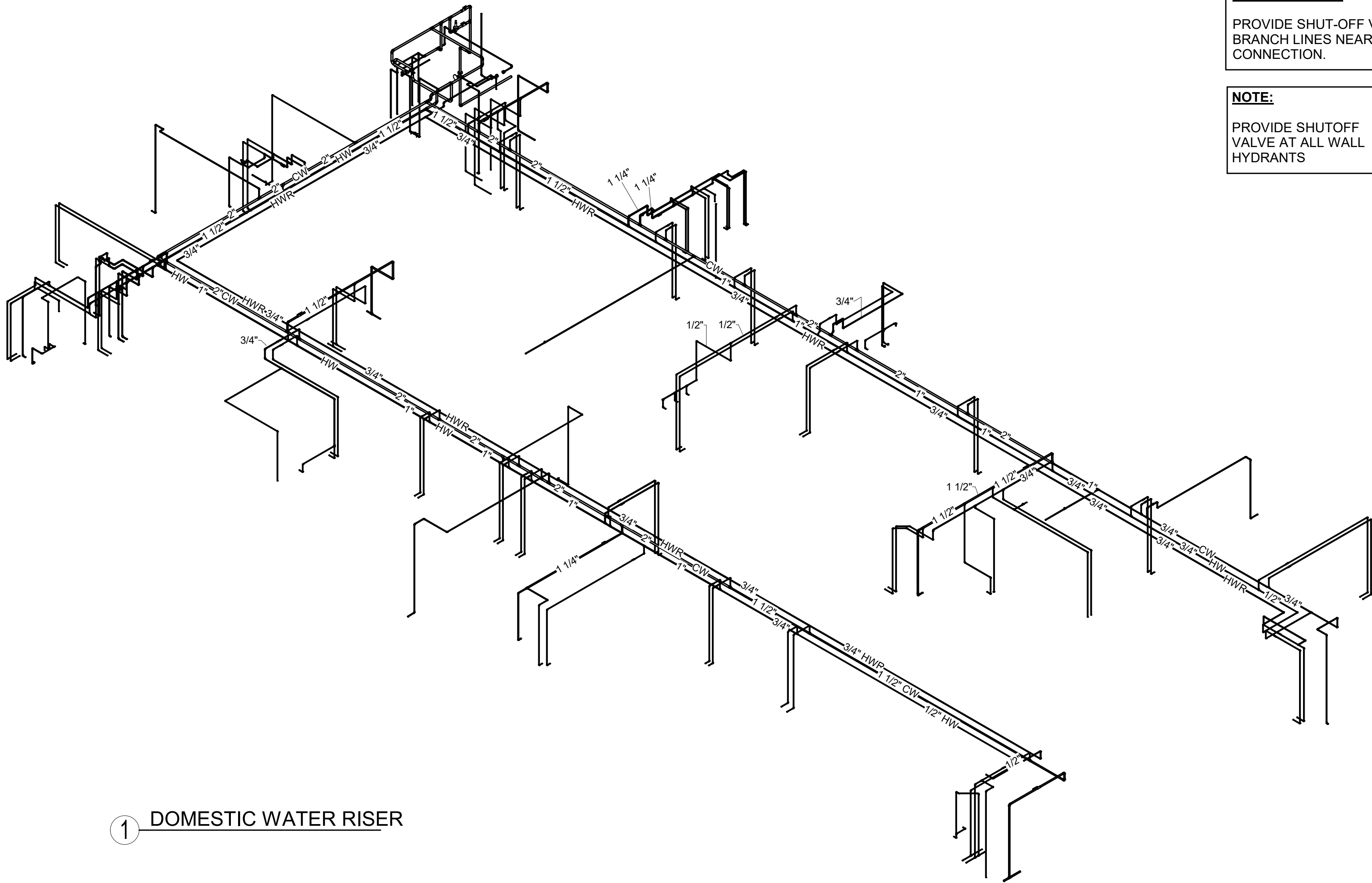
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MED GAS - FIRST  
FLOOR PLAN

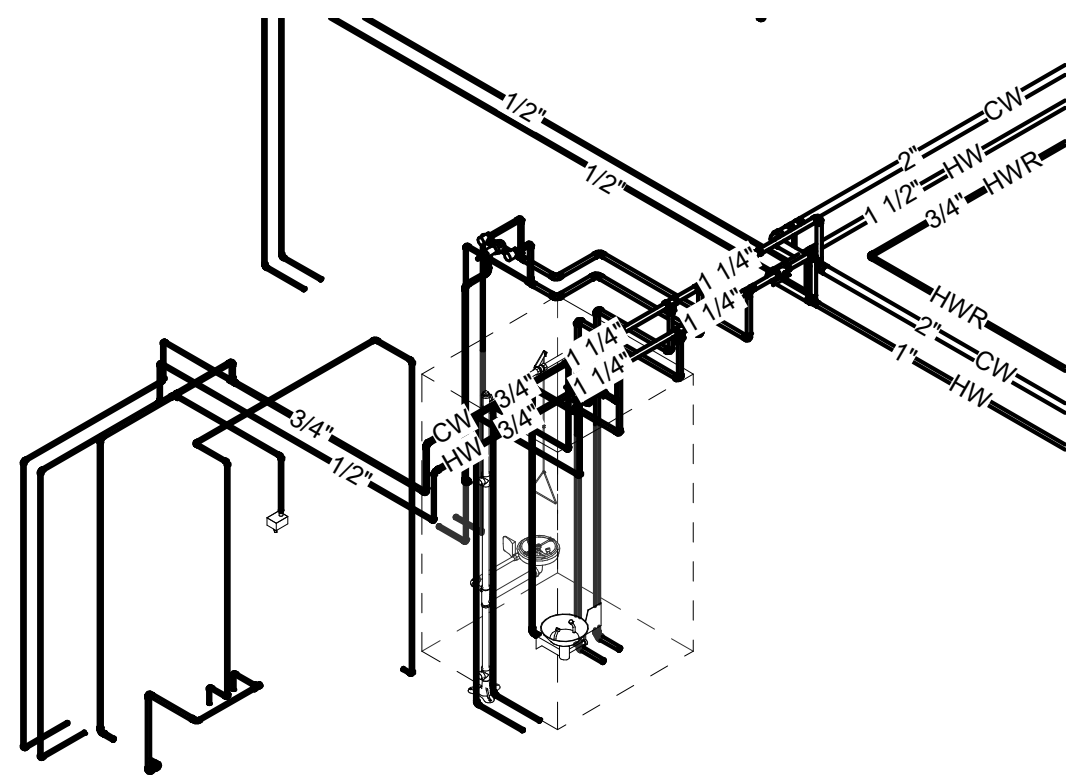
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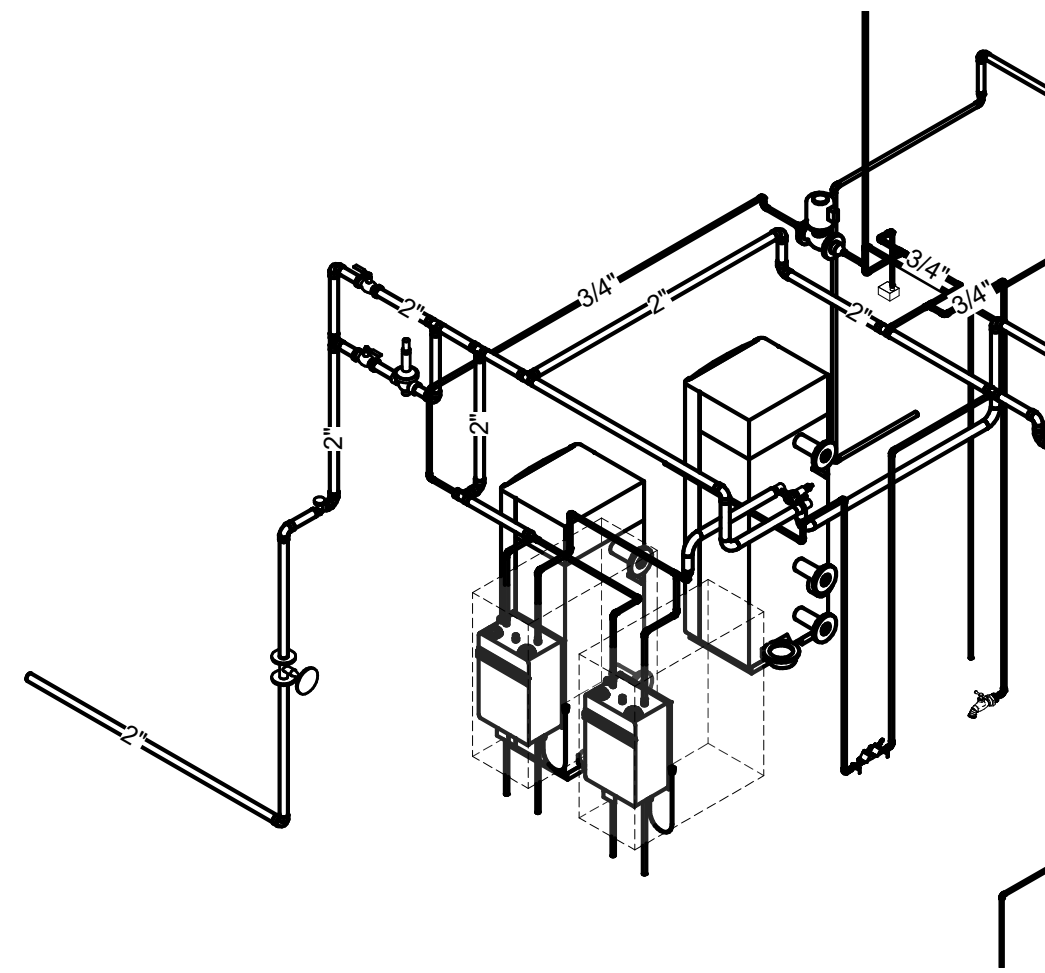
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1 DOMESTIC WATER RISER

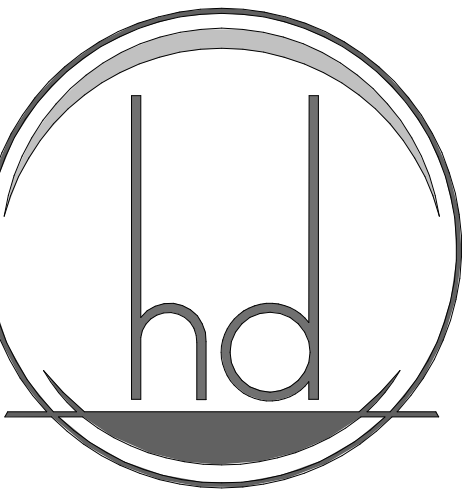


3 LABORATORY WATER RISER



2 MECH ROOM WATER RISER

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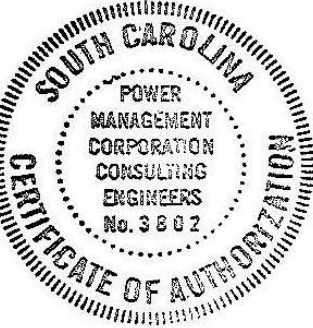
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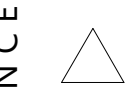
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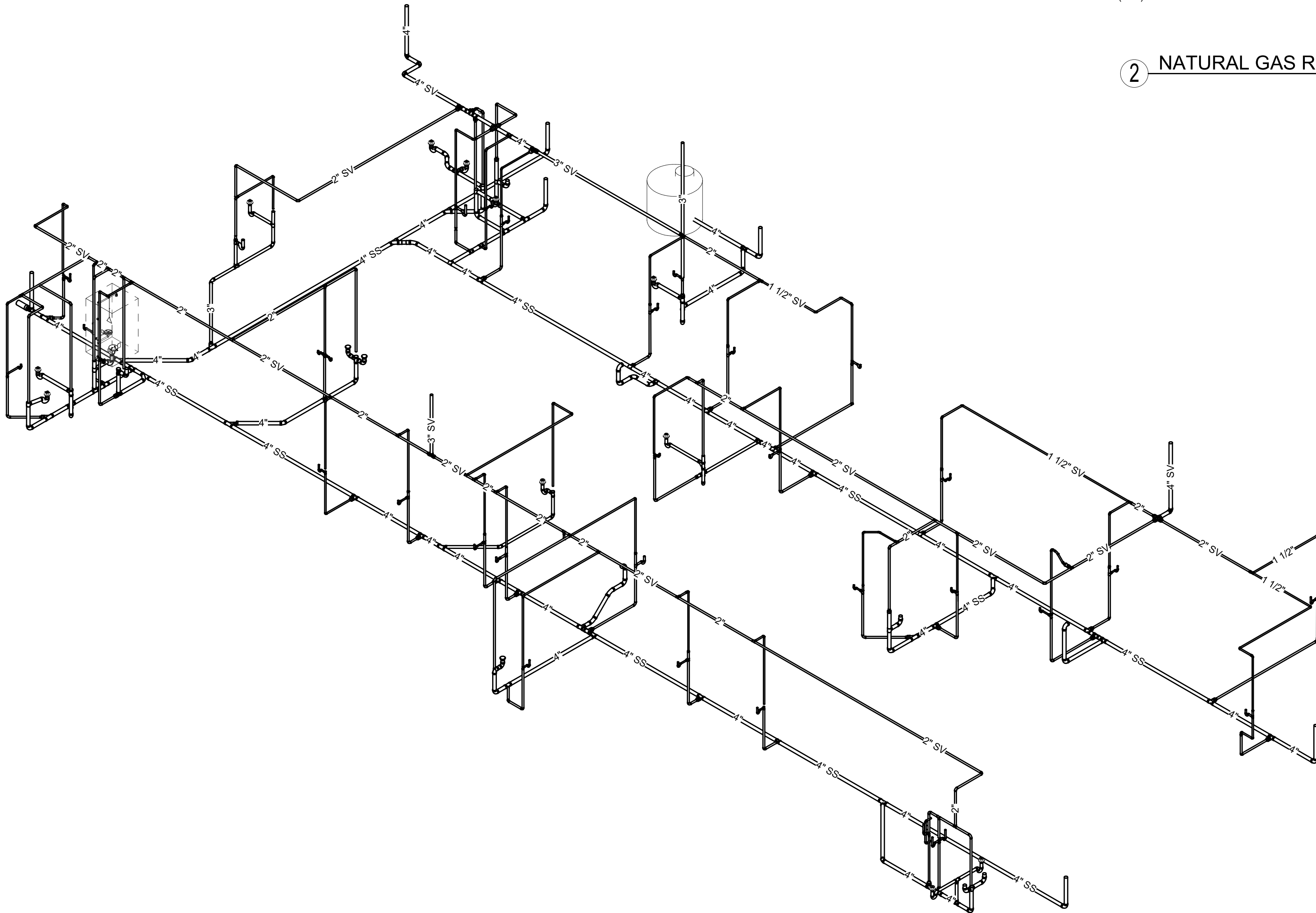


DOMESTIC WATER  
RISER

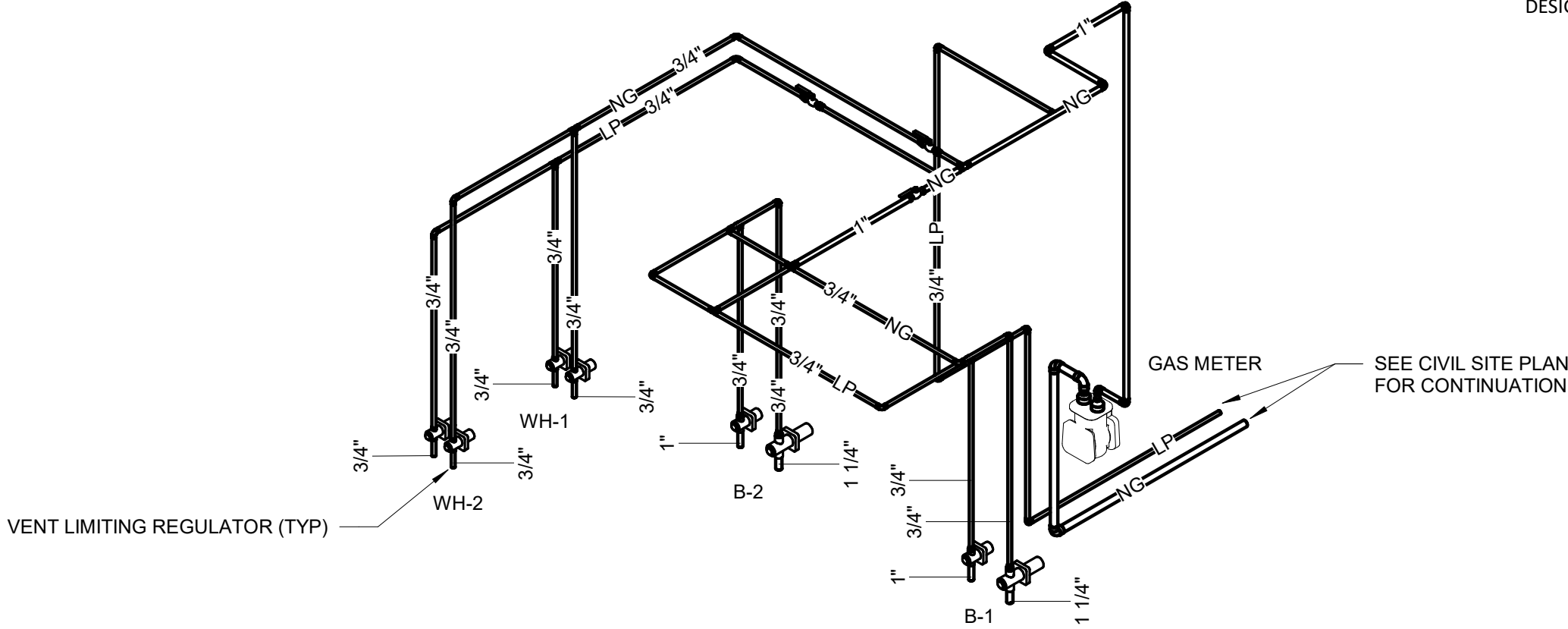
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1 SANITARY RISER



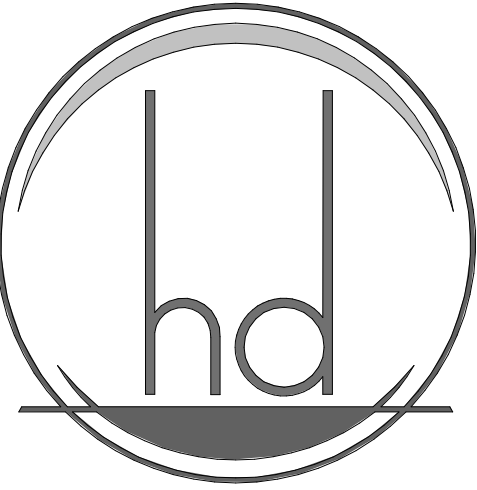
2 NATURAL GAS RISER

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PROJECT #: 23113  
DESIGNER:JMG ENGINEER:GHA



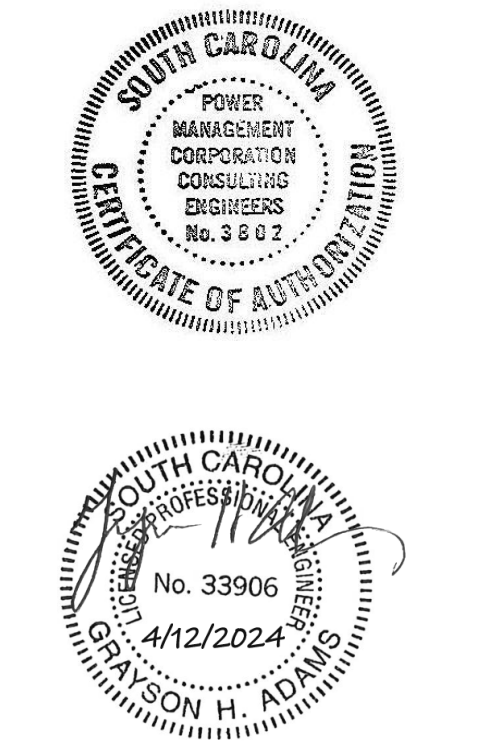
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