

CAMPBELL + VAN DUSEN
ARCHITECTURE INTERIOR DESIGN
www.CVdstudio.com
CAMPBELL + VAN DUSEN Design Studio, LLC.
255 South Orange Avenue Suite #1240
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Phone: 407.930.6016
FL LIC. NO. AA2603339

ARCHITECT OF RECORD
FRANK W. CAMPBELL AIA
FL LIC. NO. AR0016053
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TAGS
ENGINEERING
MEP, Fire Protection, Energy Modeling,
Sustainability Consulting
Certification of Authorization Number: 39196
Address: 1825 Lake Dr., Sanford, FL 32791
Tel: (407) 443-9568
www.tagsengr.com

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CONSULTANT SEAL

PROJECT DESCRIPTION:
A NEW OFFICE BUILDING FOR
PROVIDENCE ONE PARTNERS
BUILDING - 01
7151 BUSINESS PARK LANE
HEATHROW, FLORIDA, 32746

OWNER REVIEW
SET

10.10.2025

NO.	DESCRIPTION	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
T. AGSAK
PROJECT MANAGER
L. YOUNG

CLIENT NAME
Providence One Partners

PROJECT NUMBER
24-0919-01

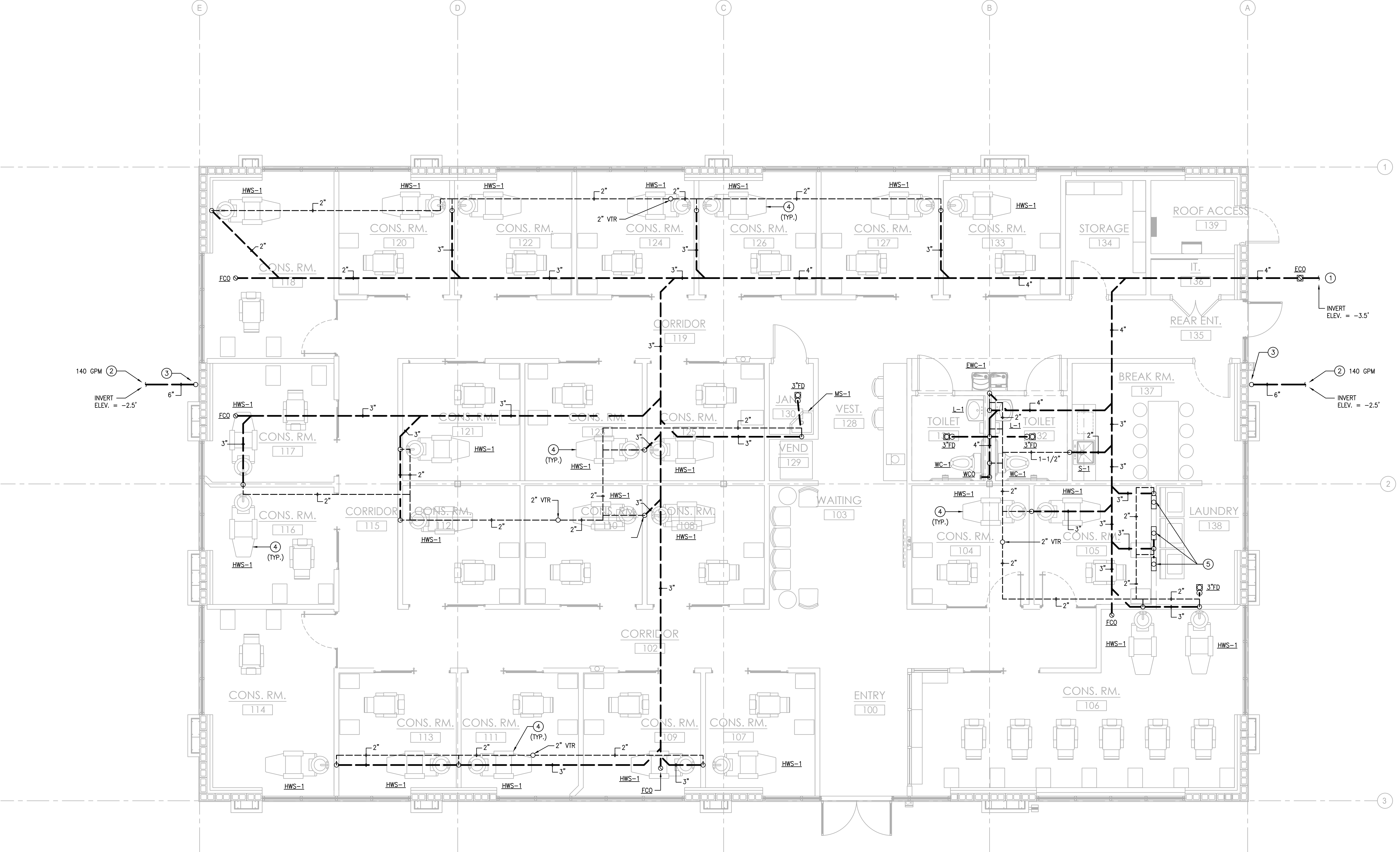
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PLUMBING SANITARY WASTE
FLOOR PLAN

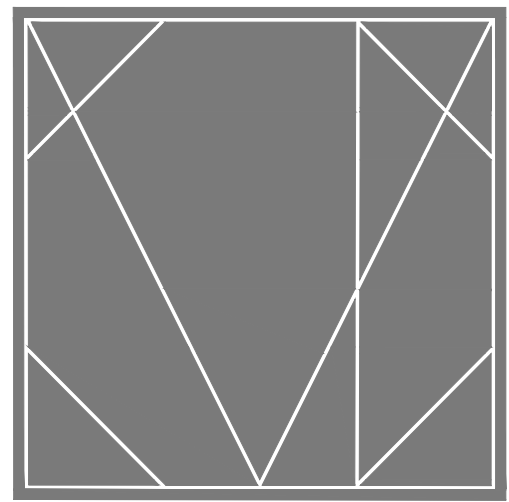
SHEET NUMBER

P2.0A

- PLUMBING KEY NOTES:
- CONTRACTOR TO MAKE CONNECTION TO SITE SANITARY PIPING UNDER DIVISION 22. REFERENCE CIVIL DRAWINGS.
 - CONTRACTOR TO MAKE CONNECTION TO SITE STORM PIPING UNDER DIVISION 22. REFERENCE CIVIL DRAWINGS.
 - PROVIDE BOOT AT BOTTOM OF DOWNSPOUT AND TRANSITION TO ROUND STORM PIPING. REFERENCE ARCHITECTURAL PLANS FOR DOWNSPOUT DETAILS.
 - HAIR WASH STATION, HWS-1, IS PROVIDED WITH A BELOW SINK HAIR INTERCEPTOR. REFER TO PLUMBING FIXTURES SCHEDULE FOR SPECIFICATIONS.
 - PROVIDE LAUNDRY BOX FOR WASHER.



NORTH 1/P2.0A PLUMBING SANITARY WASTE FLOOR PLAN SCALE: 1/4" = 1'-0"



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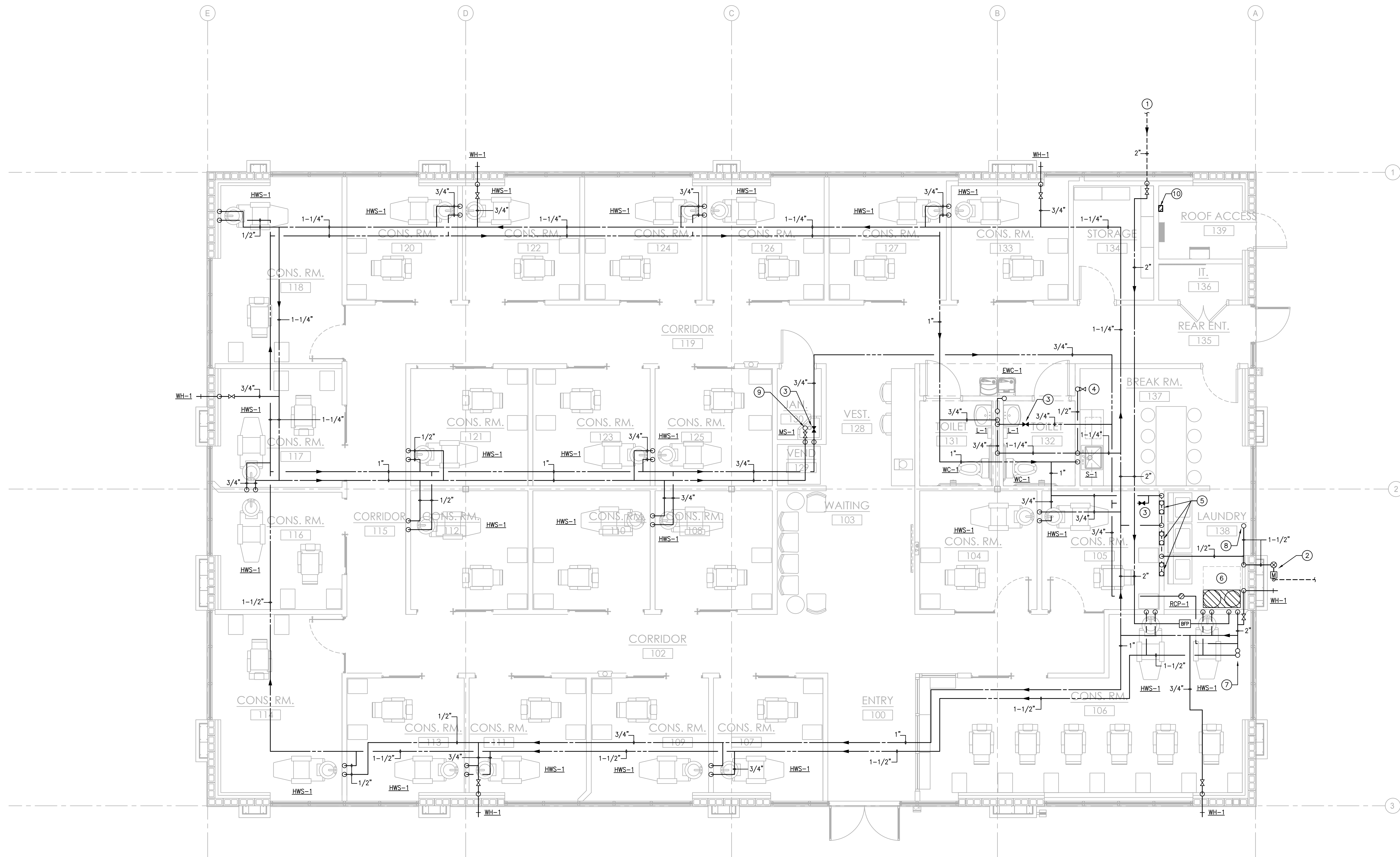
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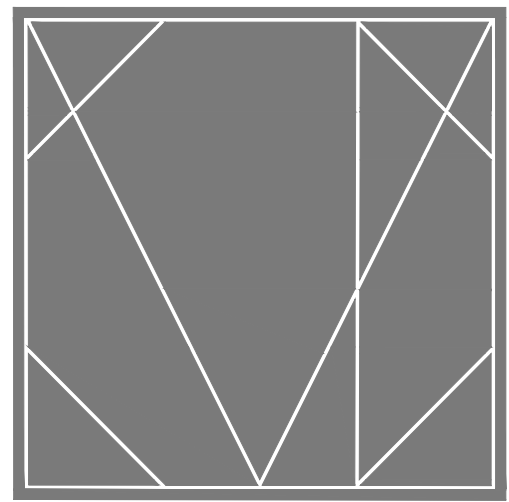
PLUMBING DOMESTIC WATER
FLOOR PLAN

SHEET NUMBER

P2.0B

- PLUMBING KEY NOTES:
- CONTRACTOR TO MAKE CONNECTION TO DOMESTIC WATER SERVICE UNDER DIVISION 22. INVERT ELEVATION = -3.0'. REFERENCE CIVIL DRAWINGS.
 - GAS METER AND REGULATOR BY UTILITY COMPANY. LOCATION OF GAS SERVICE SHALL BE COORDINATED WITH GAS UTILITY COMPANY AND SITE CONNECTIONS. REGULATOR TO REDUCE PRESSURE DOWN TO 7-14" WG. BUILDING LOAD = 859.6 CFH.
 - CIRCUIT SOLVER 120' HWR LINE BALANCING VALVE.
 - PROVIDE VALVED 1/2" CW ROUGH-IN WITH COMPRESSION FITTING FOR REFRIGERATOR. COORDINATE EXACT LOCATION WITH ARCHITECT.
 - PROVIDE LAUNDRY BOX FOR WASHER.
 - WATER SOFTENER SERVING ENTIRE BUILDING. 25 GPM CONTINUOUS AND 31 GPM PEAK FLOW PER TANK. BASIS OF DESIGN IS CULLIGAN HE-060-1.5 SINGLE SOFTENER AND BRINE TANK WITH PROGRESSIVE FLOW AND AQUA SENSOR.
 - 1-1/2" COLD AND HOT WATER PIPING FROM ABOVE.
 - 1-1/2" GAS PIPING FROM ABOVE.
 - 3/4" COLD WATER LINE FROM BELOW.
 - PROVIDE NORITZ SC-401-6M CONTROLLER FOR CWH-1, 2, 3 & 4. COORDINATE EXACT LOCATION WITH ALL EQUIPMENT IN ROOM.





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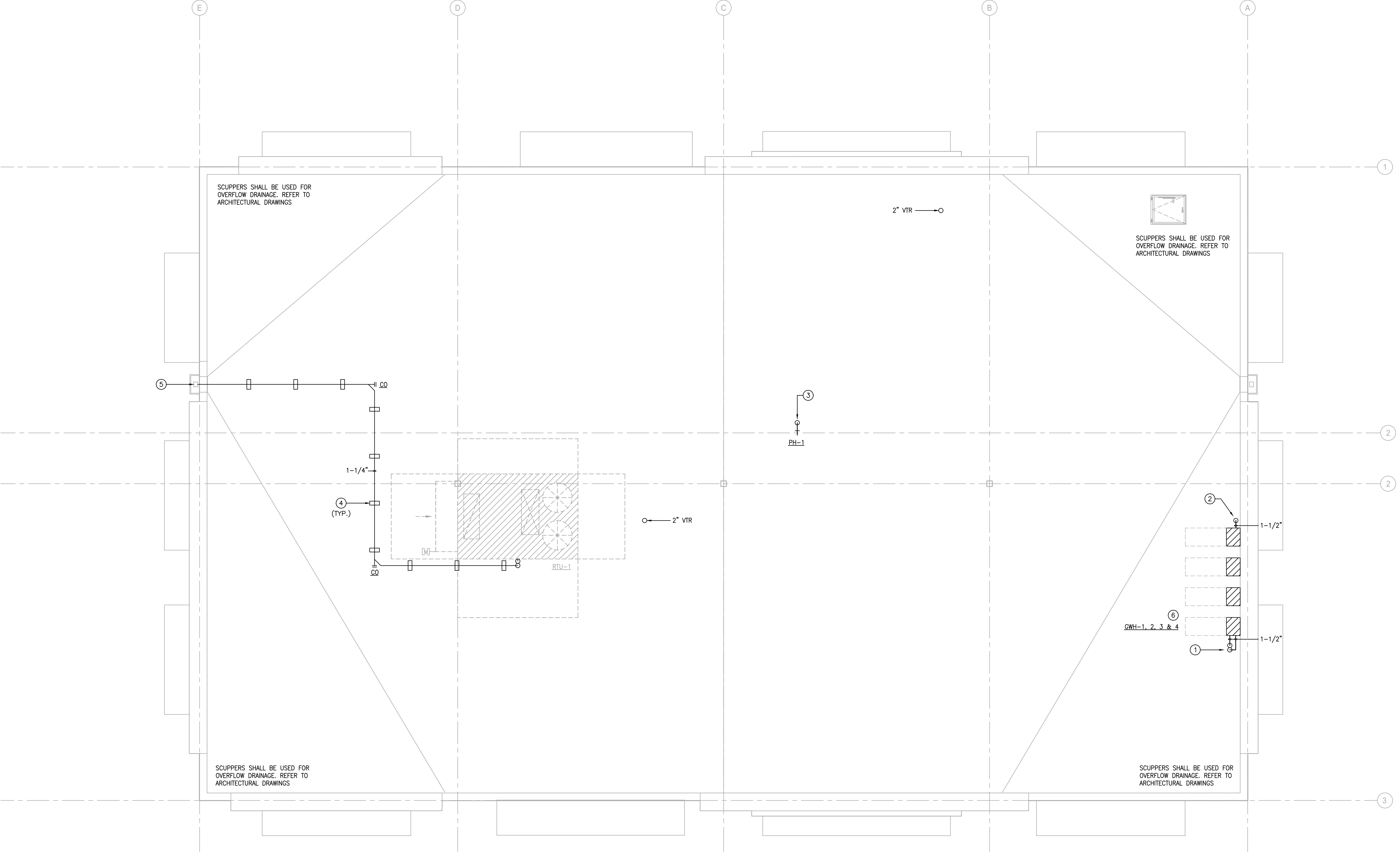
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PLUMBING
ROOF PLAN

SHEET NUMBER

P3.0

- PLUMBING KEY NOTES:
- 1-1/2" COLD AND HOT WATER PIPING FROM BELOW.
 - 1-1/2" GAS PIPING FROM BELOW.
 - 3/4" COLD WATER LINE FROM BELOW.
 - PROVIDE ROOF PIPE SUPPORT EVERY 4'-0" OF PIPING.
 - TERMINATE CONDENSATE LINE AT ROOF DOWNSPOUT AS SHOWN.
 - GWHS LOCATED ON PARAPET WALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.





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ISSUE FOR
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PLUMBING SCHEDULES

P4.0

NOTES:

1. ALL PUMPS TO BE NON-OVERLOADING THROUGH THEIR ENTIRE RANGE OF OPERATION.
2. CIRCULATING PUMPS SHALL BE ALL STAINLESS STEEL CONSTRUCTION.
3. PROVIDE IMMERSION AQUASTAT MOUNTED IN RETURN HOT WATER LINE

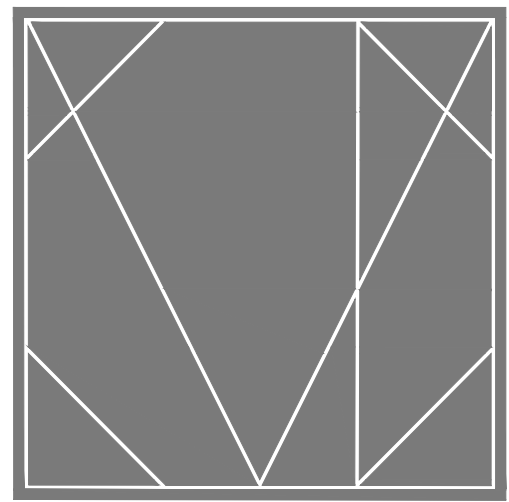
MARK	OUTLET TEMPERATURE	GPH @ 70°F	NATURAL GAS CFH	AREA SERVED	MANUFACTURER AND MODEL NO.
GWH-1, 2, 3 & 4	120 °F	1,152	199.9	ENTIRE BUILDING	NORITZ NCC1990D

NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
2. PROVIDE A SEPARATE SC-401-6M CONTROLLER FOR GWH SYSTEM.
3. PROVIDE VENT CAP, ISOLATOR VALVES AND MANUFACTURES WALL BRACKETS.
4. HEATERS SHALL BE RATED FOR OUTDOOR INSTALLATION.

NOTES: 1. COORDINATE COLOR OPTIONS WITH ARCHITECT PRIOR TO ORDERING. PRICE AS STANDARD COLOR OPTIONS.
2. CONFIRM MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.
3. COORDINATE EXACT MODEL NUMBERS WITH ARCHITECT, INTERIOR DESIGNER OR OWNER PRIOR TO ORDERING.

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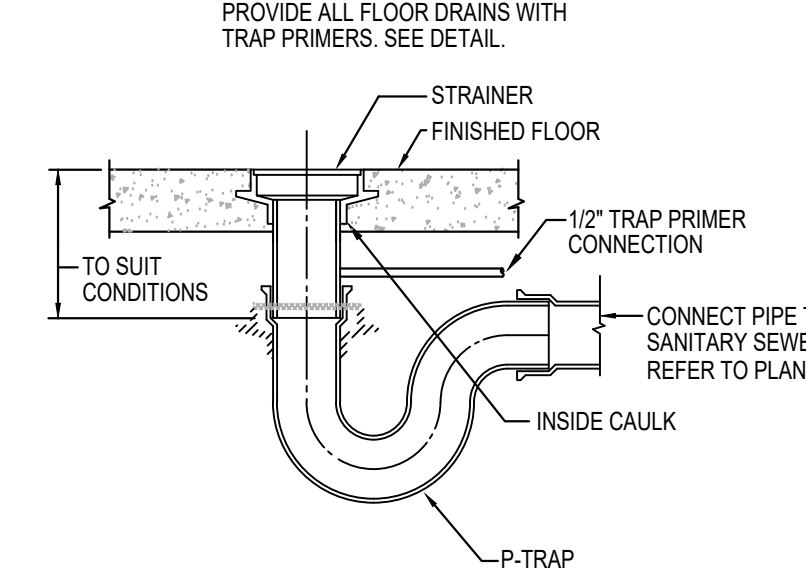
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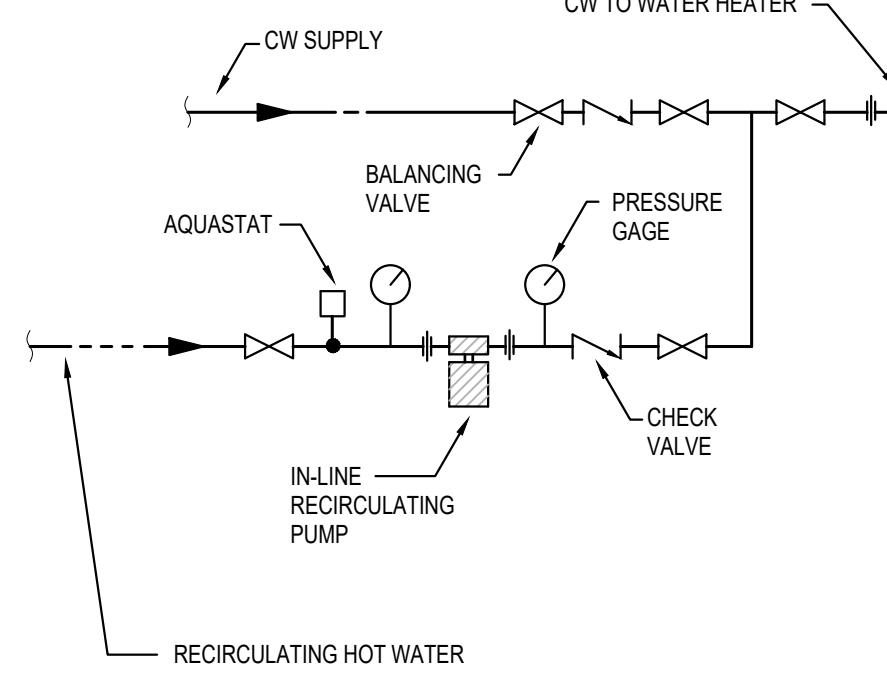
PROJECT FILE

PLUMBING
DETAILS

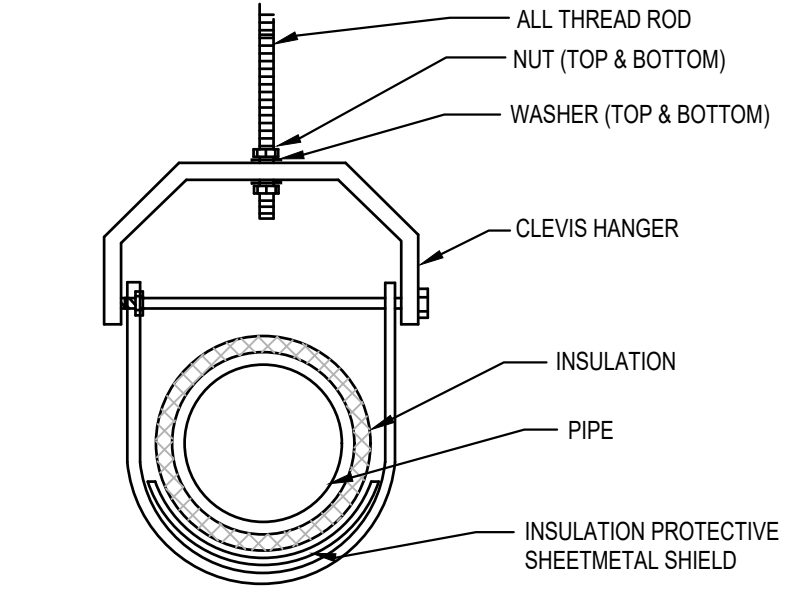
SHEET NUMBER
P5.0



14 FLOOR DRAIN DETAIL
NOT TO SCALE

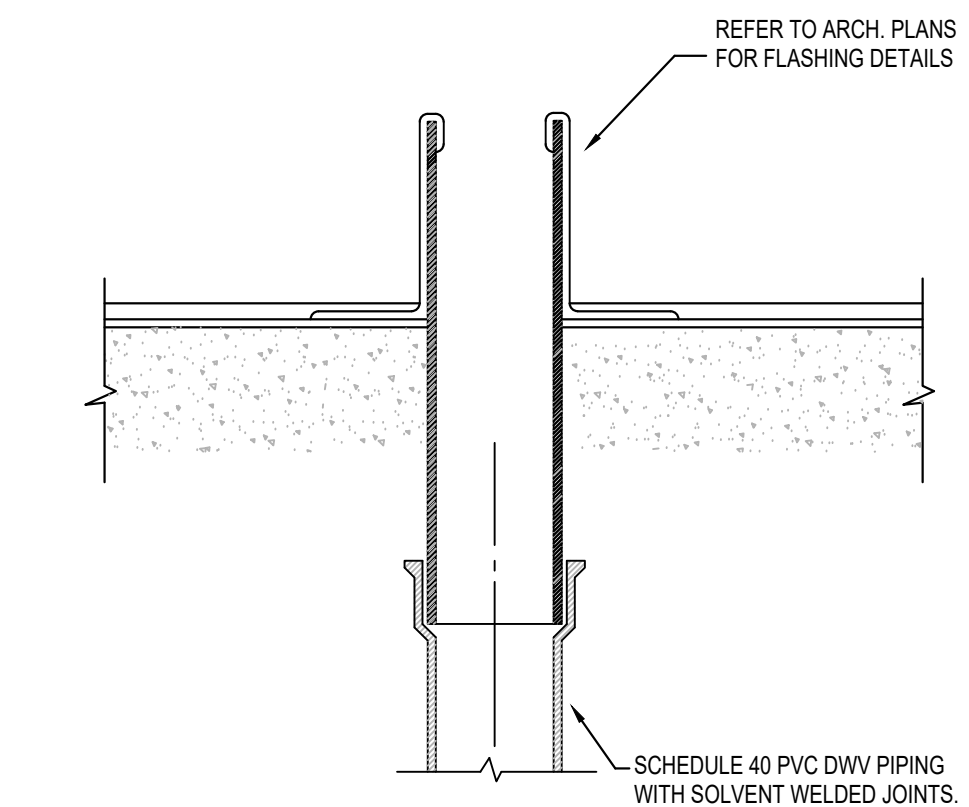


10 RECIRCULATION PUMP PIPING DETAIL
NOT TO SCALE

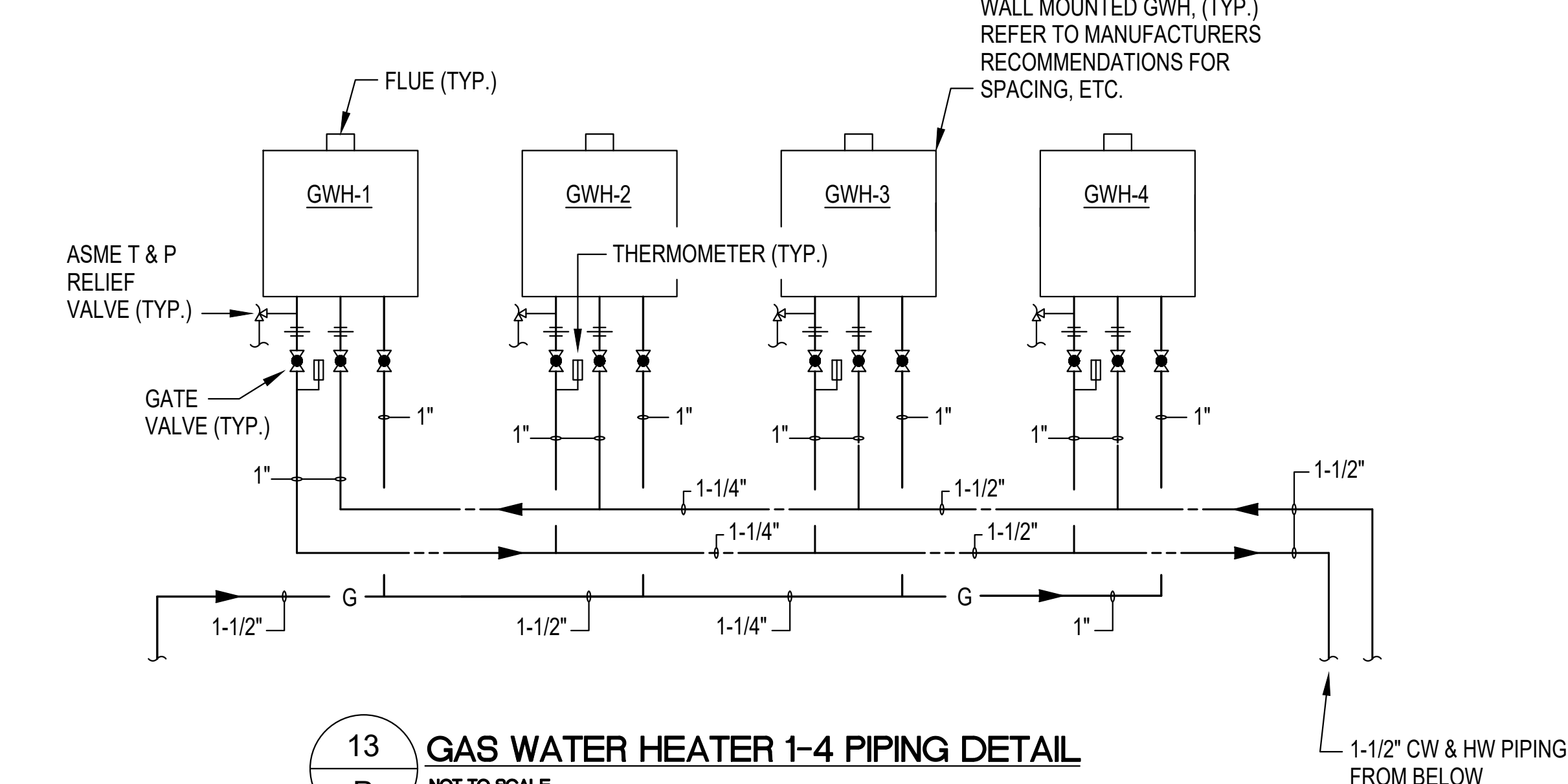


NOTE: WHEN INSULATION IS NOT INSTALLED, PROVIDE A BARRIER BETWEEN DISSIMILAR METALS TO PROVIDE ISOLATION AND PROTECTION AGAINST CORROSION.

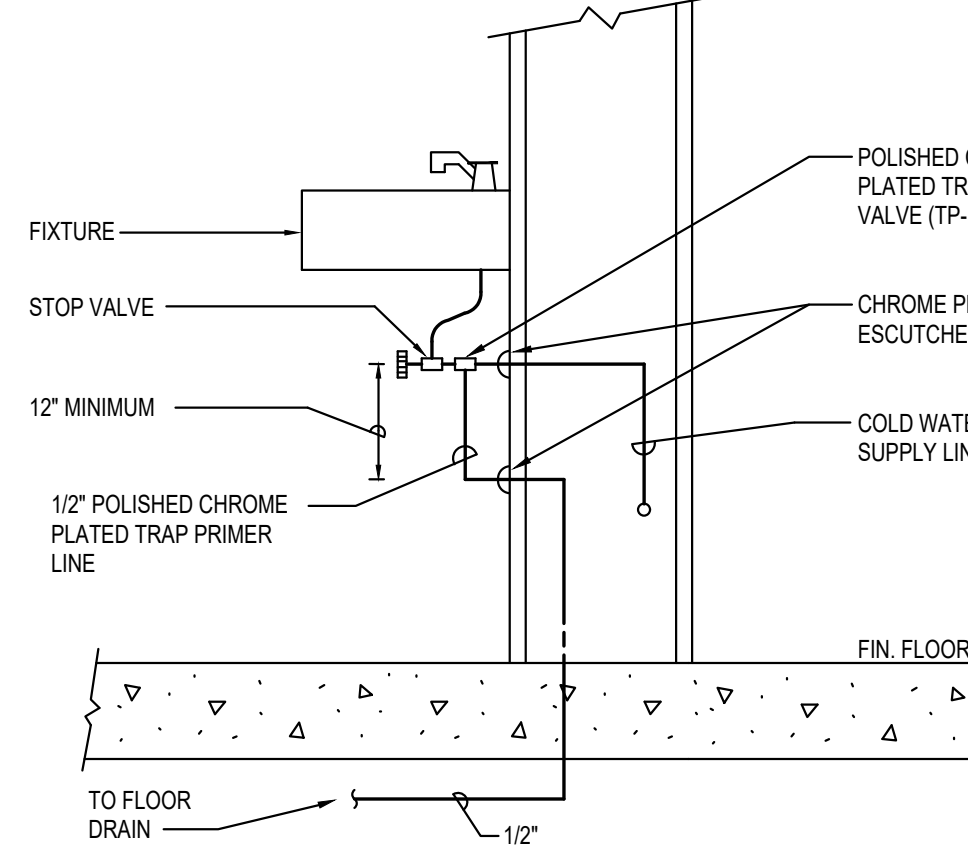
11 TYPICAL CLEVIS HANGER DETAIL
NOT TO SCALE



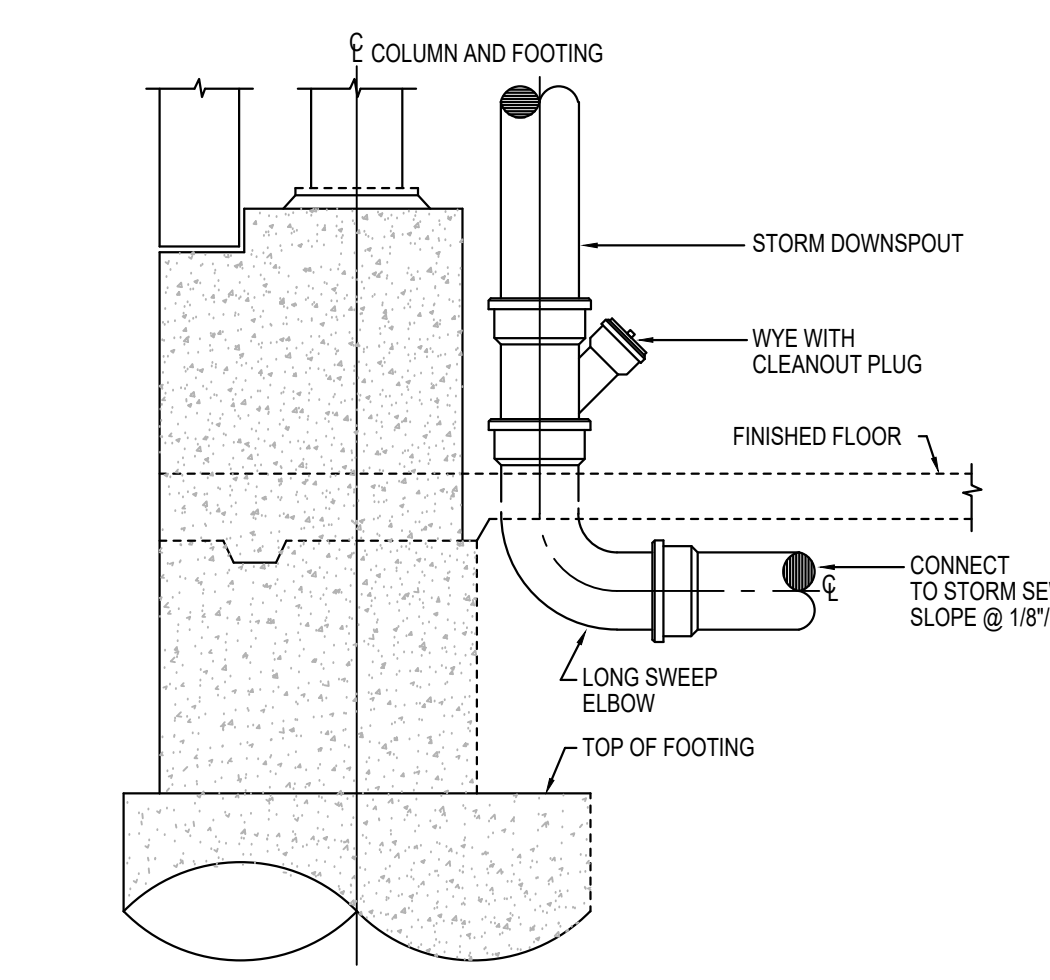
12 VENT PENETRATION THROUGH ROOF DETAIL
NOT TO SCALE



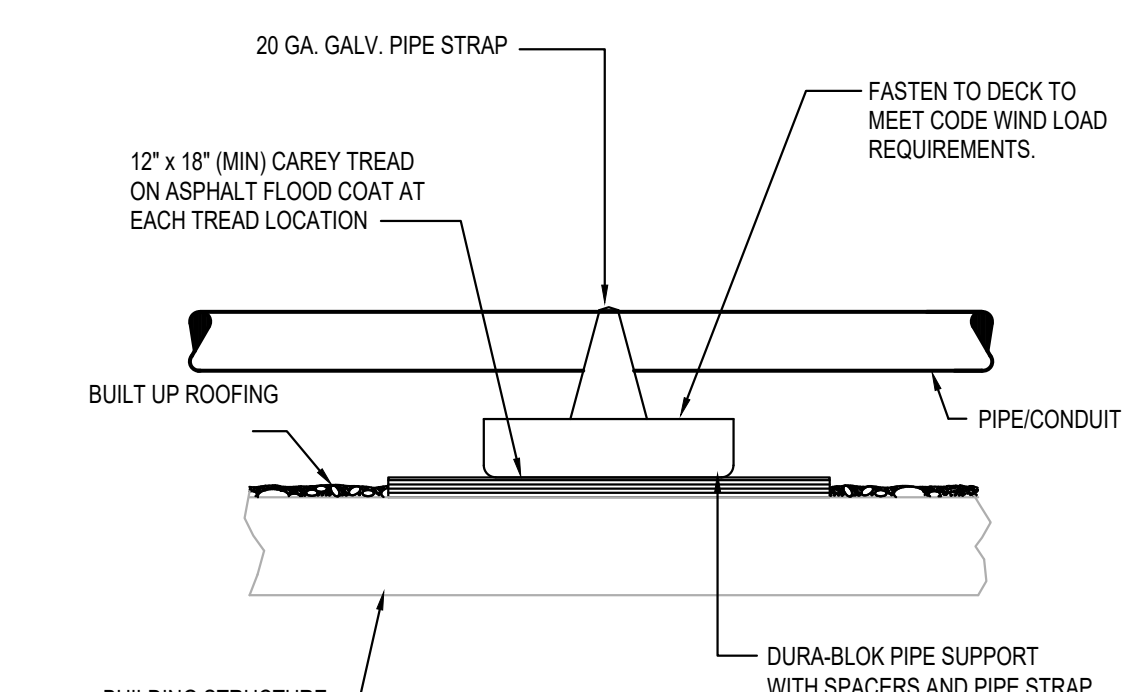
13 GAS WATER HEATER 1-4 PIPING DETAIL
NOT TO SCALE



9 TRAP PRIMER DETAIL
NOT TO SCALE

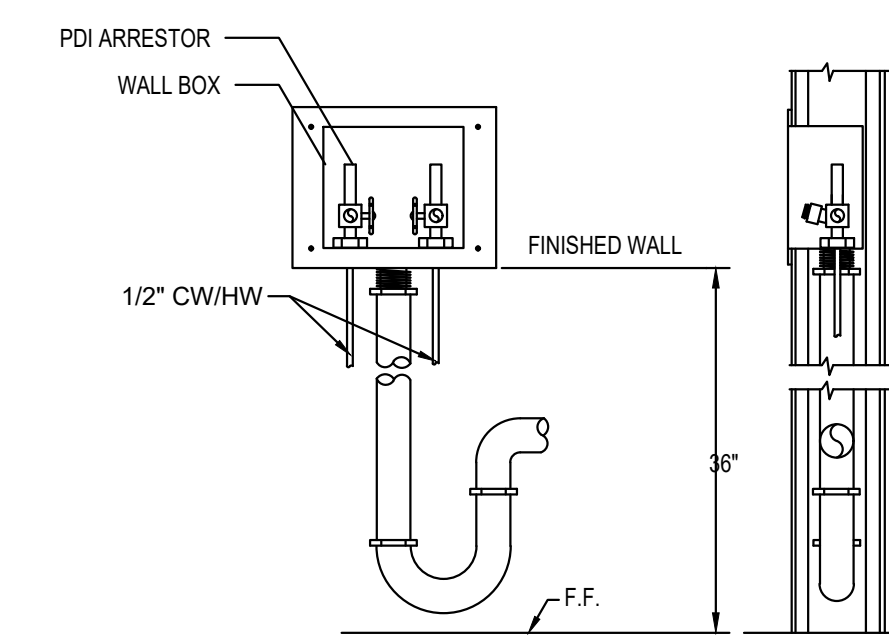


8 STORM DOWNSPOUT DETAIL
NOT TO SCALE



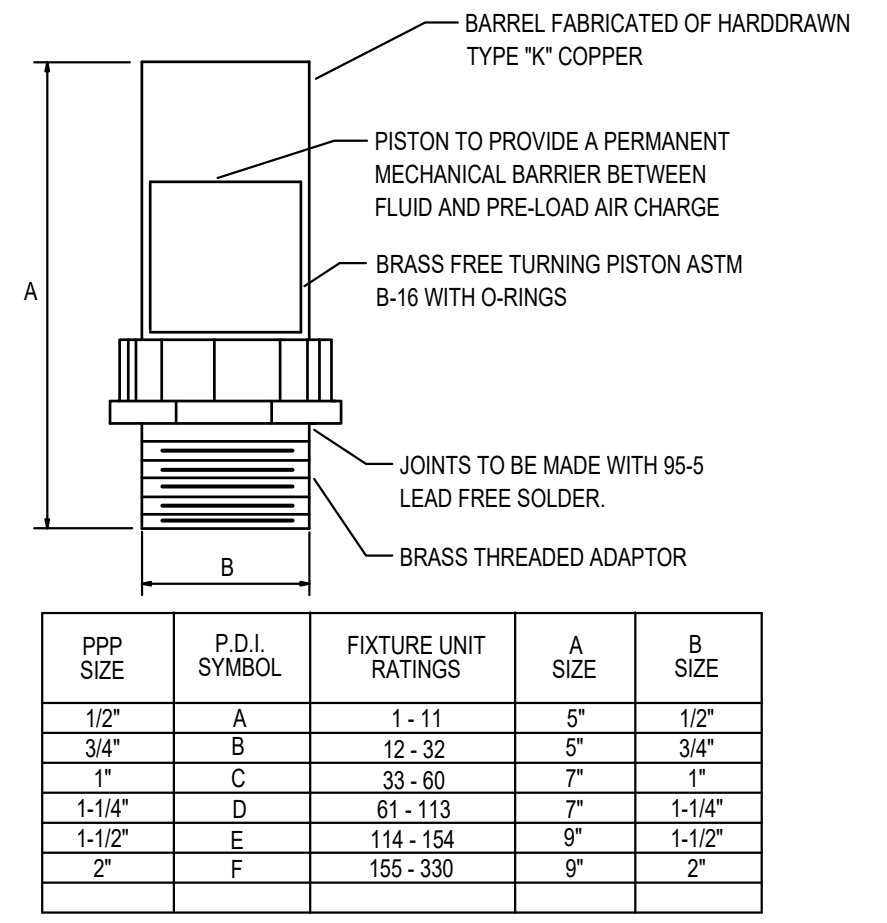
NOTES:
1. PLACE PIPE SUPPORTS ON MAXIMUM 4'-0" CENTERS AND ON ALL SIDES OF FITTINGS.
2. PROVIDE MULTIPLE SPACERS (STACKED) TO ADJUST PIPE ELEVATION. SECURE W/ILAG SCREWS.

7 ROOF PIPE SUPPORT DETAIL
NOT TO SCALE



PROVIDE WATTS DUO-CLOSURE SERIES 2M2 DWB WASHING MACHINE SHUT-OFF VALVES WITH MOLDED PLASTIC ENCLOSURE WITH TOP AND SIDE KNOCKOUTS.

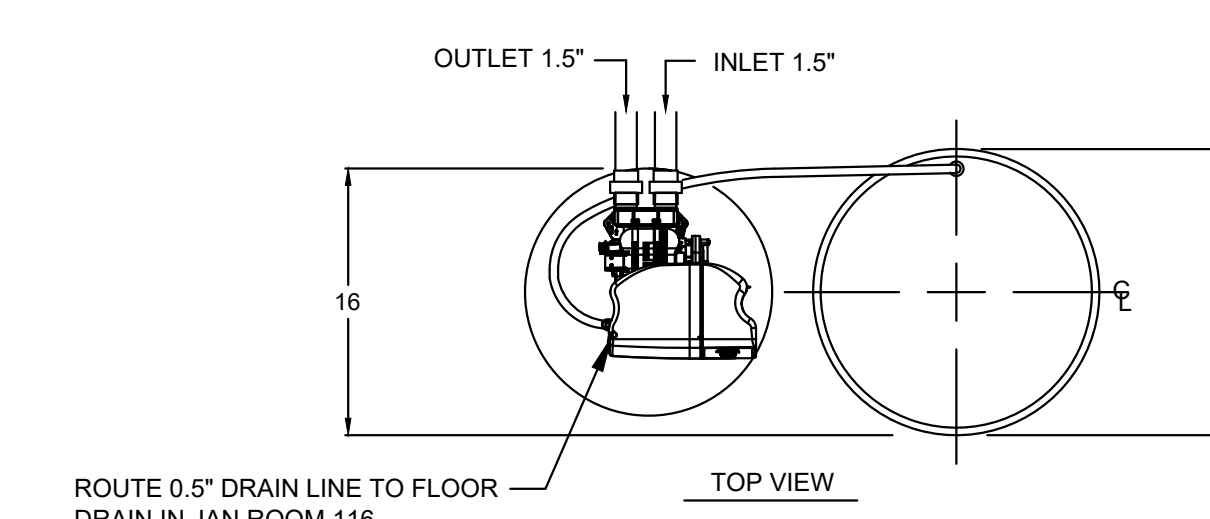
6 WASHING MACHINE CONNECTION DETAIL
NOT TO SCALE



PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 230	9"	2"

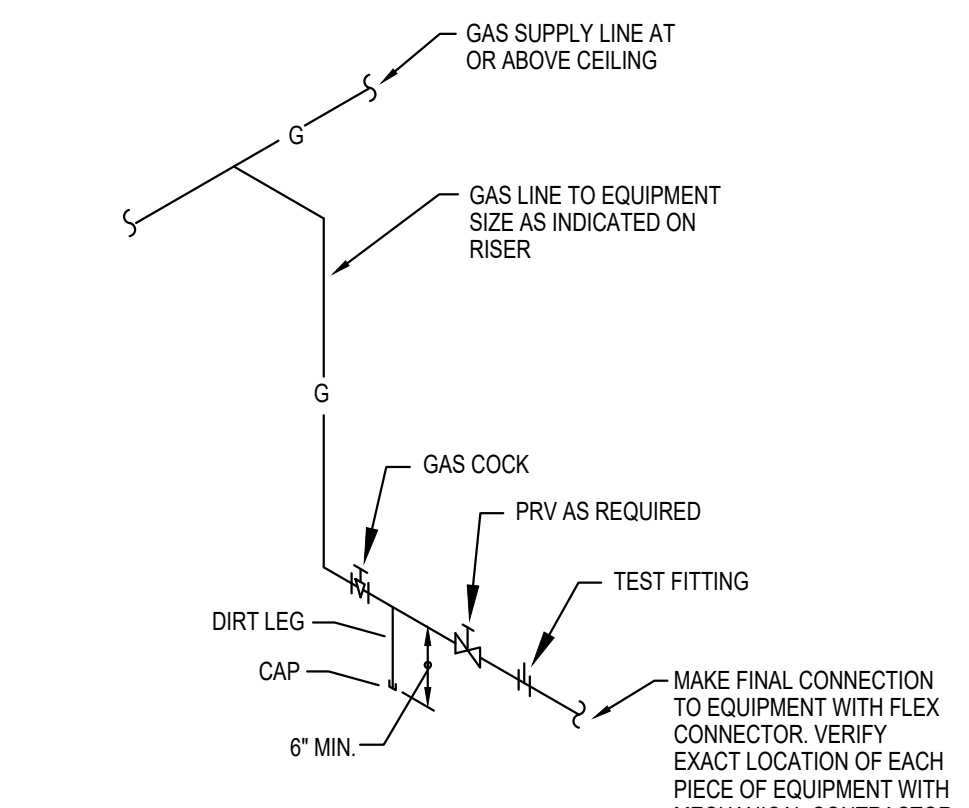
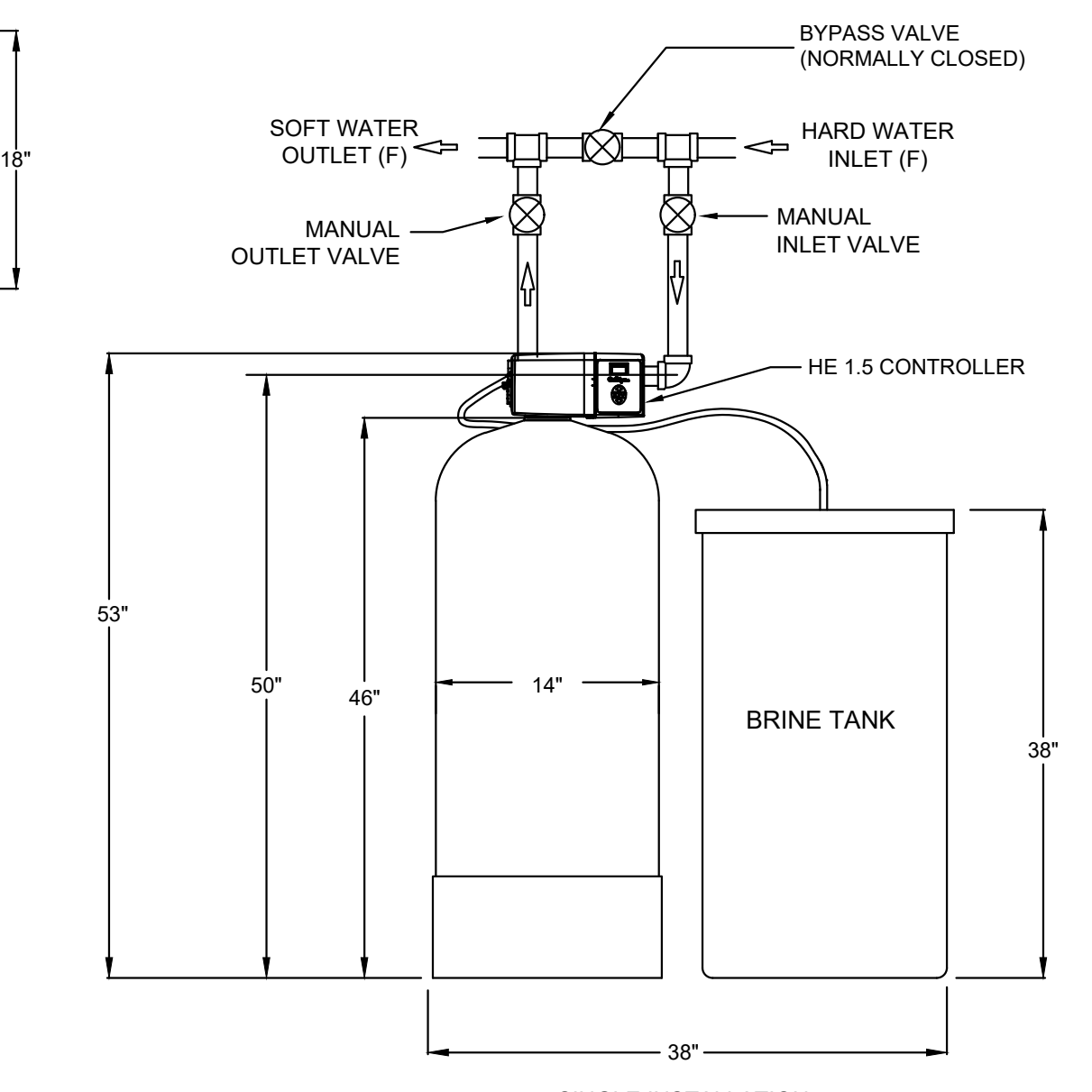
NOTES: 1) SEE WATER RISER DIAGRAMS FOR LOCATIONS OF SHOCK ABSORBERS.
2) WATER HAMMER ARRESTOR SHALL BE BY MANUFACTURER APPROVING INSTALLATION REQUIRING ZERO ACCESS.
3) WATER HAMMER ARRESTOR MUST BE ASSE 1010 COMPLIANT.

5 WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE



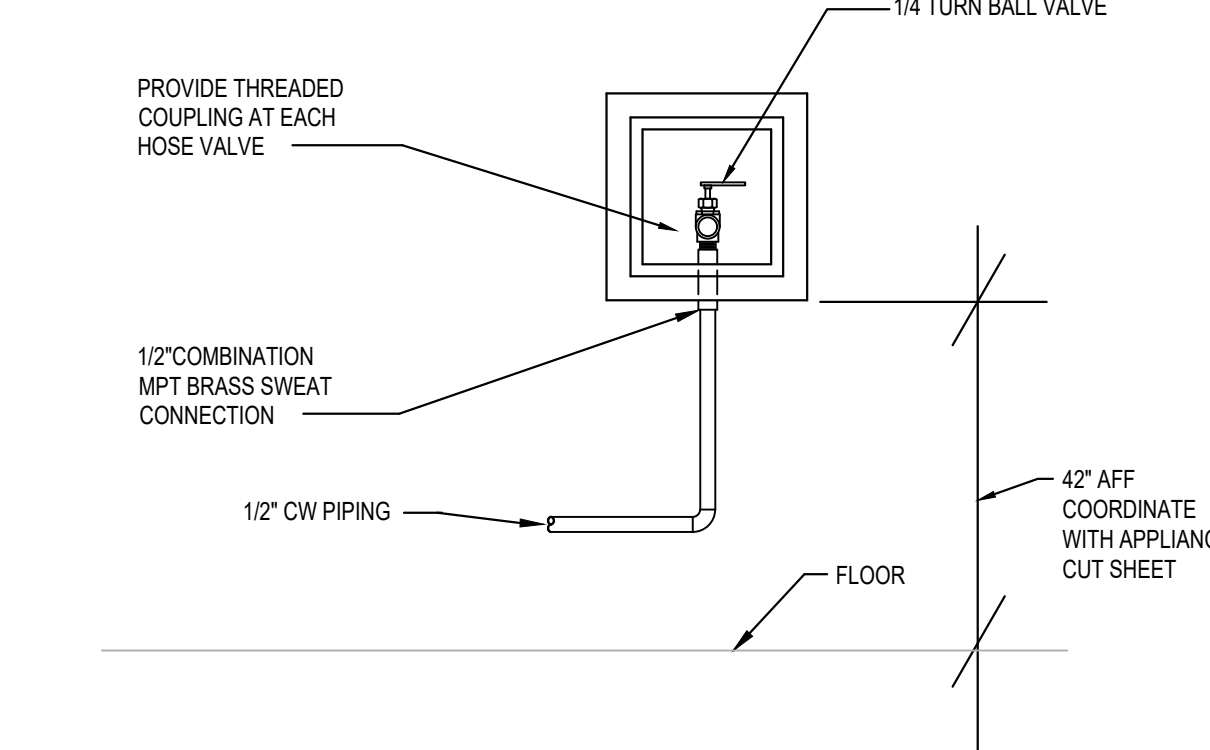
NOTES:
(1) ALL DIMENSIONS ARE + 1 INCH AND SUBJECT TO CHANGE WITHOUT NOTICE.
(2) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
(3) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM, THE USE OF NONCONDUCTIVE (DIELECTRIC) FITTINGS MAY REDUCE GALVANIC CORROSION.
(4) AN ELECTRICAL OUTLET SHOULD BE PROVIDED WITHIN FIVE FEET OF THE EQUIPMENT LOCATION.
(5) ALLOW A MINIMUM OF 24 INCHES ABOVE SOFTENER FOR FILLING.
(6) TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OR AT LEAST FOUR TIMES THE DIAMETER OF THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES.
(7) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECT TO VACUUM. INSTALL SIPHON BREAK ON DRAIN LINE. INSTALL VACUUM BREAKER ON INLET PIPING IF THE SERVICE LINE IS SUBJECT TO A VACUUM.
(8) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.
(9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SYSTEM.

4 WATER SOFTENER DETAIL
NOT TO SCALE



NOTE: ALL GAS REGULATORS SHALL BE IN COMPLIANCE WITH FFGC 410.

3 GAS CONNECTION DETAIL
NOT TO SCALE



2 REFRIGERATOR BOX DETAIL
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P6.0



GENERAL PLUMBING RISER NOTE

- PROVIDE 1/2" TRAP PRIMER FROM NEAREST FIXTURE. TYPICAL ALL FLOOR DRAINS.
- PROVIDE WATER HAMMER ARRESTORS AT MOST REMOTE FIXTURE ON EACH BRANCH LINE. ARRESTOR SHALL BE ACCESSIBLE FOR MAINTENANCE.
- CONTRACTOR SHALL REDUCE PIPE SIZE AND CONNECT TO EQUIPMENT AS REQUIRED. REFERENCE EQUIPMENT VENDOR INFORMATION.
- GAS LINE SIZING IS BASED ON TABLE 402.4(1) AND FBGC-2023 FUEL GAS CODE.

**REFER TO GAS WATER HEATER —
DETAIL FOR CONTINUATION**

02 **GAS RISER**
SCALE: N.T.S.

01 DOMESTIC WATER RISER