PLUMBING GENERAL NOTES

1. FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
2. ALL PLUMBING FIXTURES AND PLUMBING SYSTEM EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, VALVES, STOPS, TAILPIECES, TRAPS, FAUCETS, STRAINERS, ETC. SEE FIXTURE SCHEDULE.
3. FURNISH AND INSTALL COMPLETE SYSTEMS OF SOIL, WASTE, VENT, HOT AND COLD WATER PIPING FROM ALL PLUMBING FIXTURES, AND/OR OTHER EQUIPMENT.
4. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS AT THE BASE OF ALL WASTE STACKS, AT EVERY FOUR 45 DEGREE TURNS, AND AT EVERY 100 FEET. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS.
5. ALL SOIL, WASTE, AND VENT LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION.
6. COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT WITH MASONRY OR DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, SATISFACTORY AND PERMANENT ELECTROLYTIC ISOLATION MATERIAL SHALL PROTECT THE COPPER AGAINST CONTACT WITH OTHER METALS.
7. WHERE COPPER PIPING IS SLEEVED THROUGH MASONRY, SLEEVES SHALL BE COPPER OR RED BRASS. WHERE COPPER MUST BE CONCEALED IN A MASONRY PARTITION OR AGAINST MASONRY, CONTACT SHALL BE PREVENTED BY COATING THE COPPER HEAVILY WITH ASPHALTIC ENAMEL AND PROVIDING 15# ASPHALT SATURATED FELT BETWEEN THE PIPE AND MASONRY.
8. THE PLUMBING CONTRACTOR SHALL COORDINATE CLOSELY WITH THE MECHANICAL AND THE ELECTRICAL CONTRACTORS TO AVOID CONFLICT WITH OTHER TRADES.
9. CEILING AREA HAS LIMITED SPACE. CONTRACTOR MUST COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC. TO PROPERLY BE INSTALLED.
10. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS.
11. PROVIDE DRAIN VALVES IN THE HOT AND COLD WATER SYSTEM AT ALL LOW POINTS TO ALLOW FOR COMPLETE DRAINAGE.
12. VACUUM BREAKERS SHALL BE PROVIDED FOR ALL FIXTURES TO WHICH HOSES MAY BE ATTACHED. VACUUM BREAKERS SHALL BE PERMANENTLY ATTACHED.
13. WASTE AND VENT PIPING SHALL BE AS FOLLOWS:
    BELOW SLAB: SCHEDULE 40, PVC SOLID WALL PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED FITTINGS.
    ABOVE SLAB: SCHEDULE 40, PVC SOLID WALL PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED FITTINGS. ½" INSULATION IS REQUIRED ON ALL HORIZONTAL RUNS ABOVE NOISE SENSITIVE AREAS.
14. STORM PIPING SHALL BE AS FOLLOWS:
    BELOW SLAB: SCHEDULE 40, PVC SOLID WALL PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED FITTINGS.
    ABOVE SLAB: SERVICE WEIGHT NO-HUB CAST IRON PIPING WITH HEAVY DUTY COUPLINGS. INSULATION IS REQUIRED ON ALL ROOF DRAIN BODIES AND HORIZONTAL RUNS (ABOVE SLAB). INSULATE WITH ½" CLOSED-CELL ELASTOMERIC MATERIAL.
    ALTERNATE ABOVE SLAB: SCHEDULE 40, PVC SOLID WALL PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED FITTINGS. INSULATION IS REQUIRED ON ALL ROOF DRAIN BODIES AND HORIZONTAL RUNS (ABOVE SLAB). INSULATE WITH ½" CLOSED-CELL ELASTOMERIC MATERIAL.
15. DOMESTIC WATER PIPING SHALL BE AS FOLLOWS:
    BELOW SLAB: TYPE "K" COPPER.
    ABOVE SLAB: CPVC "FLOWGUARD GOLD".
    ABOVE SLAB: TYPE "L" COPPER MUST BE USED IN MECHANICAL/WATER HEATER ROOMS.
    ALTERNATE: PEX-A "UPONOR" (OR EQUAL) WITH "UPONOR, PROPEX" FITTINGS (OR EQUAL).
16. INSULATION IS REQUIRED ON HOT WATER RECIRC SYSTEM PIPING. PROVIDE IN ACCORDANCE WITH STATE ENERGY CODE OR PER LOCAL JURISDICTION. INSULATE WITH CLOSED-CELL ELASTOMERIC MATERIAL.
17. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE WASTE PIPING IS INSTALLED SO THAT PROPER SLOPES WILL BE MAINTAINED.
18. THE PLUMBING CONTRACTOR SHALL PROVIDE WATER HAMMER PROTECTION ON ALL WATER DISTRIBUTION PIPING WHERE QUICK-CLOSING VALVES ARE UTILIZED. INSTALLATION OF AIR CHAMBERS OR SHOCK ARRESTORS SHALL BE IN ACCORDANCE WITH PDI-WH201. SEE SHOCK ARRESTOR SCHEDULE (IF PROVIDED).
19. PROVIDE FULL PORT VALVES IN ALL BRANCH LINES OF THE HOT AND COLD WATER DISTRIBUTION SYSTEM ON ¾" AND LARGER CW & HW AND AS SHOWN ON PLANS, RISERS, AND SCHEMATIC DETAILS.
20. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.
21. PROVIDE ACCESS DOORS FOR ALL VALVES AND DEVICES REQUIRING ACCESS WHEN LOCATED IN WALLS OR ABOVE INACCESSIBLE CEILING CONSTRUCTION.
22. PROVIDE DEEP SEAL TRAPS FOR ALL FLOOR DRAINS.
23. REFER TO APPENDIX B FOR SITE SEISMIC CLASSIFICATION. A COMPLETE SYSTEM OF SEISMIC RESTRAINTS SHALL BE DESIGNED BY MASON INDUSTRIES (OR EQUAL) & SEALED BY THEIR REGISTERED ENGR & INSTALLED BY THIS CONTR. AS REQ'D BY APPLICABLE CODES FOR THE LOCALE OF THIS PROJECT. SEISMIC RESTRAINTS FOR SEISMIC CLASSES D, E, AND F SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL FOR REVIEW PRIOR TO INSTALLATION.
24. PROVIDE A U.L. LISTED ASSEMBLY FOR ALL PENETRATIONS THRU FIRE RATED WALLS AND FLOORS.
25. PROVIDE PRESSURE REDUCING VALVE SET AT 80 PSI.
26. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.

SHOCK ARRESTOR SCHEDULE

P.D.I. SIZE	FIXTURE UNITS	MANUFACTURER OR EQUAL
SA'A'	1 - 11	ZURN, SMITH, PPI, SIOUX-CHIEF
SA'B'	12 - 32	"
SA'C'	33 - 60	"

LOCATE SHOCK ARRESTORS IN AN ACCESSIBLE LOCATION, OR PROVIDE SIOUX-CHIEF SHOCK ARRESTORS ONLY.
PROVIDE SHOCK ARRESTORS AS INDICATED PER SCHEDULE.
SHOCK ARRESTORS SHALL BE SAME SIZE AS PIPE INSTALLED ON, MINIMUM.

PLUMBING LEGEND

Symbol	Description
——— - ———	DOMESTIC COLD WATER PIPING
———- - -———	DOMESTIC HOT WATER PIPING
— — — — —	VENT PIPING
——SAN——	WASTE (SANITARY SEWER)
—— G ——	GAS PIPING
—— RL ——	ROOF LEADER
- - -SD- - -	STORM PIPING UNDERSLAB
	FULL PORT VALVE
	CHECK VALVE
	BALANCING VALVE
	PIPE UP
	PIPE DOWN
	FLOOR DRAIN
	FIRE SPRINKLER RISER

Abbreviation	Meaning
AAV	"STUDOR" AIR ADMITTANCE VALVE
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
CW	COLD WATER
DN	DOWN
E.C.	ELECTRICAL SUB-CONTRACTOR
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FR	FROM
FS	FLOOR SINK
G.C.	GENERAL CONTRACTOR
HB	HOSE BIBB
HD	HUB DRAIN
HW	HOT WATER
M.C.	MECHANICAL SUB-CONTRACTOR
MV	MIXING VALVE
P.C.	PLUMBING SUB-CONTRACTOR
UN	UNION
V	VENT
W	WASTE

GAS PIPING NOTES

1. WORK TO INCLUDE PIPING FROM EXISTING GAS LINE TO ALL GAS FIRED EQUIPMENT. FINAL CONNECTION TO ROOFTOP UNITS BY MECHANICAL CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE SHUT-OFF VALVE, DIRT TRAP, AND PRESSURE REGULATOR AT EACH PIECE OF EQUIPMENT.
2. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODE REQUIREMENTS, AND THE PROVISIONS OF NFPA-54.
3. THE CONTRACTOR SHALL SUPPLY ALL PERMITS AND LICENSES REQUIRED FOR THE WORK, AND FOR ALL INSPECTIONS REQUIRED.
4. PIPE 3" AND SMALLER SHALL BE SCHEDULE 40 STEEL WITH THREADED MALLEABLE FITTINGS.
5. VALVES SHALL BE GAS COCKS MANUFACTURED BY NIBCO.
6. ALL GAS PIPING LOCATED UNDER THE FLOOR SLABS SHALL BE INSTALLED IN CONDUIT OR AS REQUIRED BY CODE.
7. ALL PIPING EXPOSED TO THE OUTDOORS OR RUN IN UNCONDITIONED SPACES SHALL BE PAINTED WITH TWO COATS OF ENAMEL.

FIRE PROTECTION NOTES

1. THE SYSTEM SHALL BE DESIGNED PER NFPA 13 LIGHT HAZARD, 1500 SQ. FT. AT .10GPM/SQ. FT.
   THE SYSTEM SHALL BE DESIGNED PER NFPA 13 ORDINARY GROUP I, 1500 SQ. FT. AT .15GPM/SQ. FT.
2. PRIOR TO HYDRAULIC CALCULATIONS, OBTAIN APPROVED FIRE FLOW DATA (GPM AND PRESSURE) FROM NEAREST WATER SUPPLY, FROM THE BUILDING OFFICIAL.
3. THE DESIGN SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT, OWNERS INSURANCE COMPANY AND BUILDING OFFICIAL PRIOR TO FABRICATION OR INSTALLATION.
4. A COMPLETE AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED IN ALL SPACES.
5. THE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA, REQUIREMENTS OF THE BUILDING OFFICIAL, AND REQUIREMENTS OF THE OWNERS INSURANCE COMPANY.
6. THE SITE SUBCONTRACTOR SHALL PROVIDE A BACKFLOW PREVENTER ASSEMBLY IN ACCORDANCE WITH UTILITY COMPANY REGULATIONS.
7. THE WATER SUPPLY FIRE LINE SHALL ENTER THE BUILDING AT THE LOCATION SHOWN ON THE PLAN.
8. ALL COMPONENTS USED IN THE SPRINKLER SYSTEM SHALL BE UL APPROVED.
9. THE DESIGN SHALL INCLUDE AN OUTLINE OF ALL DUCTWORK, LIGHTS, AND OTHER OBSTRUCTIONS (DO NOT ROUTE PIPING THROUGH THE DUCTWORK) TO SHOW PROPER INSTALLATION OF ALL SPRINKLER WORK. THE GENERAL CONTRACTOR SHALL COORDINATE CLEARANCES WITH THE SPRINKLER PIPING, AND ALL TRADES AFFECTED SHALL "SIGN OFF" ON THE DESIGN PRIOR TO FABRICATION OR INSTALLATION.
10. SPRINKLERS IN UNHEATED OR AREAS SUBJECT TO FREEZING SHALL BE PROTECTED FROM FREEZING.
11. PROVIDE ALL REQUIRED DEVICES AND COMPONENTS, FOR INTER-LOCK WIRING WITH THE ALARM BELL OR CENTRAL STATION MONITORING, WHERE REQUIRED BY THE BUILDING OFFICIAL.

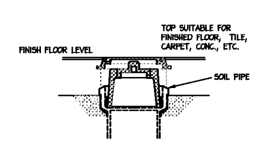
PLUMBING SHEET INDEX

P-001 SCHEDULE, NOTES AND DETAILS
P-002 PLUMBING DETAILS
P-101 FIRST FLOOR PLAN
P-102 SECOND FLOOR PLAN
P-103 ROOF PLAN
P-301 ENLARGED DETAIL PLANS
P-401 WASTE/VENT RISER DIAGRAMS

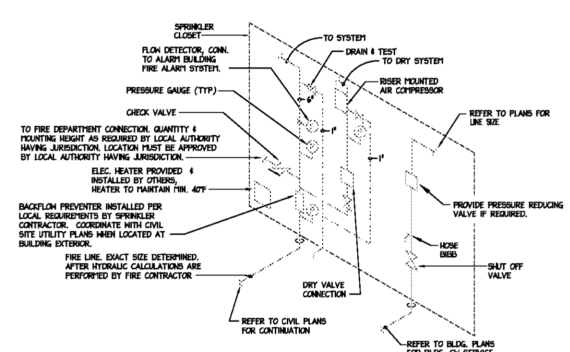
PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE

MARK	FIXTURE	TYPE	MANUFACTURER	MODEL NO.	MATERIAL	STYLE	FAUCET/VALVE				DRAIN		SUPPLIES AND STOPS	PIPE SIZES				MOUNTING	REMARKS
							MANUFACT. MODEL NO.	SPOUT	HANDLES	CENTERS	TYPE	SIZE		WASTE	VENT	CW	HW		
WC-1	WATER CLOSET	FLUSH VALVE	SLOAN	ST-2459	VITREOUS CHINA	ADA ELONGATED	SLOAN ROYAL 111-1.6-DFB-SMO BATTERY POWERED	-	-	-	-	-	-	3"	2"	1¼"	-	WALL	PROVIDE WITH OPEN FRONT SEAT WITH NO LID
WC-2	WATER CLOSET	FLUSH VALVE	SLOAN	ST-2459	VITREOUS CHINA	STANDARD ELONGATED	SLOAN ROYAL 111-1.6-DFB-SMO BATTERY POWERED	-	-	-	-	-	-	3"	2"	1¼"	-	WALL	PROVIDE WITH OPEN FRONT SEAT WITH NO LID
WC-3	WATER CLOSET/LAV COMBO	FLUSH VALVE	WILLOUGHBY INDUSTRIES	ECW-3696-ON-HC W/ PLATE AND TRANSFORMER	STAINLESS STEEL	ADA ELONGATED	-	-	-	-	-	-	- -	3"/2"	2"	½"	-	WALL	PROVIDE WITH ELECTRONIC FLUSH VALVE, REMOTE LOCATION SHALL BE COORDINATED.
URN-1	URINAL	FLUSH VALVE	SLOAN	SU-1006	VITREOUS CHINA	ADA ELONGATED	SLOAN ROYAL 186-1-SMO BATTERY POWERED	-	-	-	-	-	-	3"	1½"	¾"	-	WALL	
L-1	LAVATORY	SINGLE COMP'T	SLOAN	SS-3001	VITREOUS CHINA	ADA / STANDARD	SLOAN EFX-300.000.000 EFX-300.000.000 HARD WIRED	CENTERSET	SINGLE LEVER	4"	GRID	1½"	McGUIRE 175, PW2125	2"	1½"	½"	½"	COUNTER TOP	MOUNT AT ADA HEIGHT
L-2	LAVATORY	WALL HUNG	AMERICAN STANDARD	0356.421	VITREOUS CHINA	ADA COMPLIANT	SLOAN EFX-300.000.000 EFX-300.000.000 HARD WIRED	CENTERSET	SINGLE LEVER	4"	GRID	1½"	McGUIRE 175 WITH PW2125	2"	1½"	½"	½"	WALL HUNG	MOUNT AT ADA HEIGHT. PROVIDE AERATOR W/ LAMINAR FLOW
SH-1	SHOWER	PREFAB	FLORESTONE	40-40H	FIBERGLASS	ADA 40" x 40"	SYMMONS PRESS. BALANCE	-	SINGLE LEVER	-	INTEGRAL	2"	-	2"	1½"	½"	½"	FLOOR	SEAT, GRAB BAR, PRESS. BAL. VALVE, HAND SPRAY, HOSE, SLIDE BAR, & DRAIN.
S-1	KITCHEN/ BREAK SINK	SINGLE COMP'T	ELKAY	LRAD-1517	STAINLESS STEEL	6½" DEEP 4-HOLE HANDICAPPED	ELKAY LK800GN05T4	8" GOOSENECK	WRIST BLADE HANDLES	8"	CRUMB CUP	1½"	McGUIRE 165	1½"	1½"	½"	½"	COUNTER TOP	PROVIDE WITH ELKAY LK-35 AND IN-SINK-ERATOR MODEL 333 DISPOSAL ¾HP, 120V
S-2	LAB SINK	DOUBLE COMP'T	ELKAY	LRAD-332155	STAINLESS STEEL	6½" DEEP 4-HOLE HANDICAPPED	DELTA 440-WF	9" SWING	SINGLE LEVER	8"	CRUMB CUP	1½"	McGUIRE 165	1½"	1½"	½"	½"	COUNTER TOP	PROVIDE WITH ELKAY LK-35 AND IN-SINK-ERATOR SS-300 DISPOSAL 3HP, 208V, 3φ
S-3	KITCHEN SINK	DOUBLE COMP'T	ELKAY	LRAD-3322	STAINLESS STEEL	6½" DEEP 4-HOLE HANDICAPPED	DELTA 440-WF	9" SWING	SINGLE LEVER	8"	CRUMB CUP	1½"	McGUIRE 165	1½"	1½"	½"	½"	COUNTER TOP	PROVIDE WITH ELKAY LK-35
MS-1	MOP SINK	FLOOR MOUNTED	FLORESTONE	92 W/ 6" DROP FRONT	MOLDED STRUCTURAL PLASTIC	ONE PIECE 24" X 24"	FIAT 830-AA	THREADED	TWO HANDLES	8"	-	-	-	3"	1½"	¾"	¾"	FLOOR	PROVIDE MOP HANGER, HOSE, HOSE BRACKET, AND VACUUM BREAKER.
EEW	EMERGENCY EYEWASH	SINGLE STATION	ACORN	S0430-BF	STAINLESS STEEL	WALL MOUNTED	-	-	-	-	-	1½"	- -	2"	1½"	½"	½"	WALL	PROVIDE TEMPERED WATER IN COMPLIANCE WITH EMERGENCY EQUIPMENT GUIDELINES.
EWC	WATER COOLER	DOUBLE STATION	ELKAY	LZSTL8WSLP W/ BOTTLE FILLER	STAINLESS STEEL	ADA COMPLIANT	-	-	-	-	-	1½"	McGUIRE 165	2"	1½"	½"	-	WALL	MOUNT AT ADA HEIGHT
IMB	REFRIGERATOR BOX	BOTTOM SUPPLY	OATEY	38574	PVC	RECESSED BOX	-	-	-	-	-	-	-	-	-	½"	-	WALL	SHUT-OFF VALVE AND THREADED CW CONNECTION.
FD	FLOOR DRAIN	SQUARE TOP	J.R. SMITH	2010	CAST IRON	NIKALOY TOP	-	-	-	-	-	-	-	-	-	-	-	FLOOR	PROVIDE WITH PROSET TRAP GUARD.
FS	FLOOR SINK	SQUARE TOP	J.R. SMITH	3150 WITH HALF GRATE	CAST IRON	NIKALOY TOP	-	-	-	-	-	-	-	-	-	-	-	FLOOR	ACID RESISTING ENAMEL INTERIOR DOME BOTTOM STRAINER FLASHING CLAMP
TD	TRENCH DRAIN	SINGLE SLOT	NORSTAR	U-DRAIN	GALVINIZED STEEL	COMMERCIAL	-	-	-	-	-	-	-	-	-	-	-	FLOOR	PROVIDE WITH PROSET TRAP GUARD.
HB	HOSE BIBB	FREEZE PROOF	WOODFORD	67	CAST BRASS	WALL FAUCET	-	-	LOOSE KEY	-	-	-	-	-	-	½"	-	WALL	
FPHB	HOSE BIBB	FREEZE PROOF	WOODFORD	B67	CAST BRASS	RECESSED BOX	-	-	-	-	-	-	-	-	-	¾"	-	WALL	
WCO	WALL CLEAN-OUT	ROUND COVER	J.R. SMITH	4472	CAST IRON	S.S. COVER	-	-	-	-	-	-	-	-	-	-	-	WALL	
FCO	FLOOR CLEAN-OUT	SQUARE TOP	J.R. SMITH	4040	CAST IRON	NICKEL BRONZE TOP	-	-	-	-	-	-	-	-	-	-	-	FLOOR	
HCO	HEAVY DUTY CLEAN-OUT	SQUARE TOP	J.R. SMITH	4220	CAST IRON	CAST IRON TOP	-	-	-	-	-	-	-	-	-	-	-	FLOOR	
GCO	GRADE CLEAN-OUT	ROUND TOP	J.R. SMITH	4240	CAST IRON	CAST IRON TOP	-	-	-	-	-	-	-	-	-	-	-	GRADE	PROVIDE WITH 24"x24"x8" THK CONCRETE PAD AT GRADE.
GWH-1	WATER HEATER	GAS	INTELLIHOT	[illegible]	GLASS LINED	TALL	-	-	-	-	-	-	-	-	-	SEE PLAN	SEE PLAN	SEE DETAIL	TANKLESS, 1,999.999MBH, 37.4 GPM REC @ 100°F RISE
EWH-2	WATER HEATER	ELEC.	[illegible]	SP3277	-	TANKLESS	-	-	-	-	-	-	-	-	-	SEE PLAN	SEE PLAN	SEE DETAIL	277V, 1φ, 3.0KW 0.5 GPM REC AT 41°F RISE
EWS	EYE/ SHOWER DRENCH	PULL CHAIN	BRADLEY	[illegible]WFW	-	-	-	-	-	-	-	-	-	-	-	-	-		PROVIDE PER OWNERS/ARCHITECT SPECIFICATIONS. PC TO INSTALL W/ MV FOR TEPID WATER.
PWC	POTABLE WATER CABINET	-	SEMLAR INDUSTRIES	51-2400	-	-	-	-		-	-	-	-	-	-	-	-	-	PROVIDE BACKFLOW WITHIN CABINET. EXTERNAL DRAIN PIPING SHALL BE HEAT TRACED AND INSULATED BY INSTALLER.

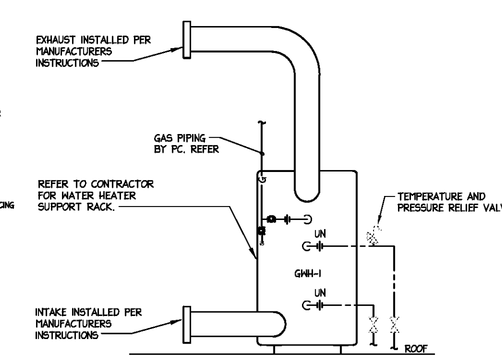
NOTES:
1. CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY FIXTURES. INFORMATION ON ALTERNATE FIXTURES PROPOSED BY THE CONTRACTOR SHALL INCLUDE THE ADD/DEDUCT ASSOCIATED WITH ACCEPTANCE OF THAT FIXTURE (OR THE ALTERNATE PACKAGE AS A WHOLE).



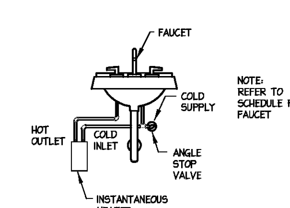
1 INTERIOR CLEANOUT DETAIL
NO SCALE (FCO)



2 WATER ENTRY RISER DIAGRAM
NO SCALE
NOTE:
1. FIRE AND PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF BACKFLOWS FOR CLEARANCE ISSUES.
2. FIRE PUMP DETERMINED AFTER HYDRAULIC CALCULATIONS BY A LICENSED SPRINKLER CONTRACTOR.



3 WATER HEATER DIAGRAM
NO SCALE
NOTE:
1. INSTALL WATER HEATER PER MANUFACTURER REQUIREMENTS.
2. PROVIDE HEAT TRAP ON CW AND HW LINES PER ENERGY CODE.



4 INSTANTANEOUS WATER HEATER DIAGRAM
NO SCALE

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REVISIONS

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SHEET TITLE
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