

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	TYPE	WASTE	VENT	CW	HW	NOTES
WC-1	WATER CLOSET, WALL HUNG	VALVE	4"	3"	1"		
WC-2	HANDICAP WATER CLOSET, WALL HUNG	VALVE	4"	3"	1"		1
WC-1	HANDICAP WATER CLOSET, FLOOR MOUNTED	VALVE	4"	3"	1"		
L-1	LAVATORY	WALL HUNG	2"	2"	1/2"	1/2"	1
L-2	HANDICAP LAVATORY	COUNTER	2"	2"	1/2"	1/2"	1
U-1	URINAL	WALL HUNG	2"	2"	3/4"	-	
U-2	HANDICAP URINAL	WALL HUNG	2"	2"	3/4"	-	1
S-1	STAINLESS STEEL SINK	COUNTER	2"	2"	1/2"	1/2"	
MB-1	MOP SINK	FLOOR	3"	2"	3/4"	3/4"	

1. INSULATE PIPING FOR HANDICAP FIXTURE.

SPRINKLER NOTES:

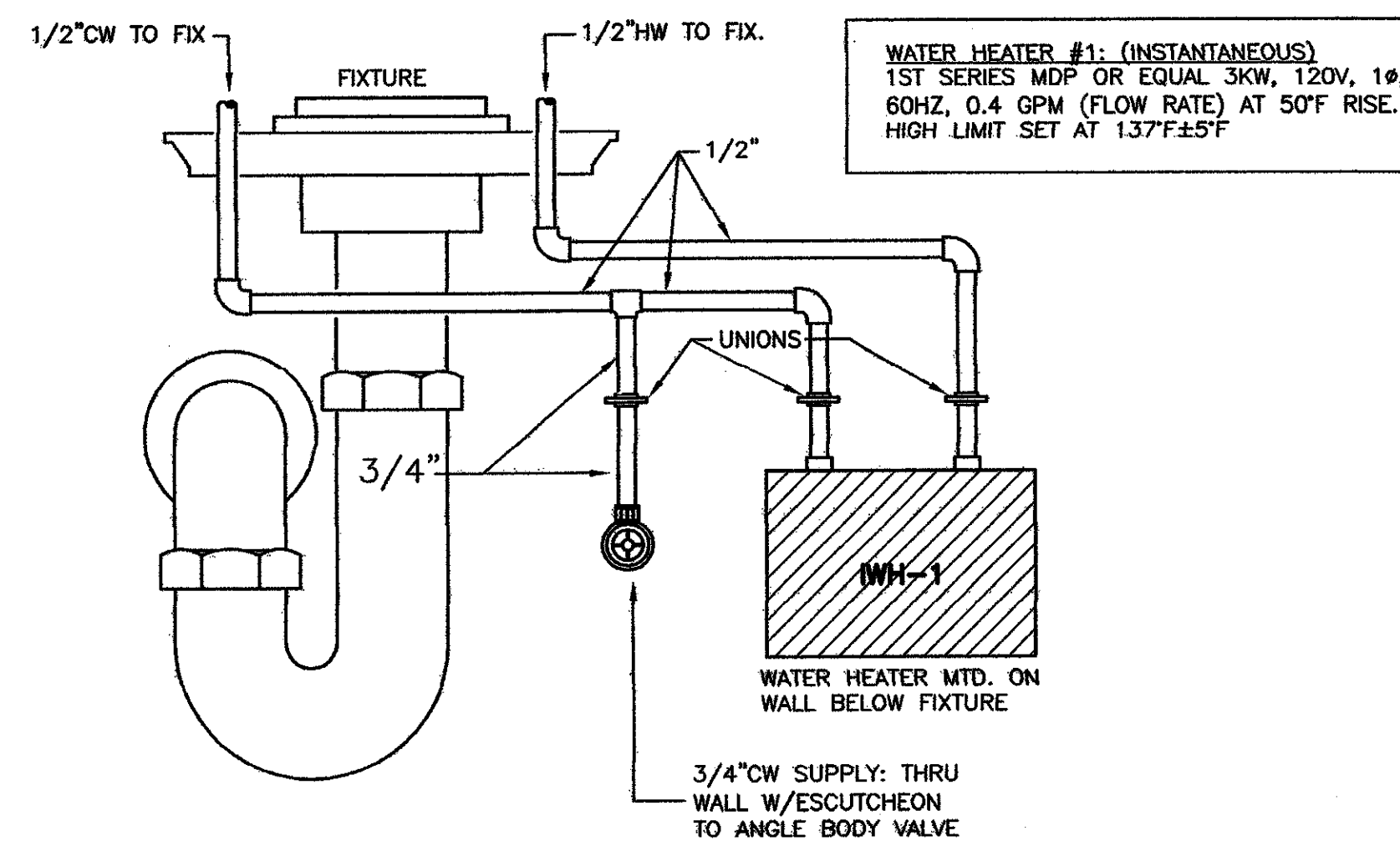
- MODIFY SPRINKLER SYSTEM IN MAINLY ON 1ST FLOOR, AND ADD HEAD IN NEW TOILET ROOM ON 2ND FLOOR IN BUILDING IN ACCORDANCE WITH NFPA-13 PREPARE SHOP DRAWINGS FOR STATE FIRE MARSHALL APPROVAL.
- PIPING AND SPRINKLER HEAD LOCATIONS SHOWN ARE DIAGRAMATIC. ACTUAL LAYOUT SHALL BE IN ACCORDANCE WITH NFPA-13 AND HYDRAULIC DESIGN. NUMBER OF HEADS DETERMINE BY CALCULATIONS. PROVIDE NUMBER OF SIEMESSES PER NFPA
- ALL PIPE SIZES SHALL BE DESIGNED BY THE SPRINKLER CONTRACTOR.
- COORDINATE WITH LIGHT FIXTURES, DIFFUSERS AND REFLECTED CEILING PLAN.
- ALL SPRINKLER SYSTEM MUST BE APPROVED BY STATE FIRE MARSHALL.
- FIRE LINE SHALL MEET NFPA-20.
- PAY NECESSARY FEE FOR SHOP DRAWINGS APPROVAL.
- CONTRACTOR SHALL TEST AVAILABLE PRESSURE AT NEAREST FIRE HYDRANT AND DESIGN SYSTEM ACCORDINGLY.
- ALL SPRINKLER AND PIPING PRESSURE AND TEMPERATURE RATING MUST COMPLY WITH NFPA-13 FOR BLDG. TYPE.
- PROVIDE TEST DRAIN. COORDINATE WITH FUTURE REQUIREMENTS

DARKER NOTES APPLICABLE WITHOUT LIMITATION OF SPRINKLER SYSTEM

PLUMBING LEGEND

(SOME SYMBOLS MAY NOT BE APPLICABLE)

---	NEW PIPE
---	EXISTING PIPE
S	SOIL OR SEWER LINE
V	VENT LINE
---	COLD WATER LINE
---	HOT WATER LINE
---	HOT WATER CIRCULATION LINE
G	NATURAL GAS LINE
F	FIRE LINE
IOI	BALL VALVE
X	SHUTOFF VALVE (GATE OR BALL)
WH	WALL HYDRANT W/ VACUUM BREAKER
CO	CLEAN OUT
FD	FLOOR DRAIN
BFP	BACK FLOW PREVENTER
DWH	DOMESTIC WATER HEATER
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
W&V	WASTE AND VENT
W	WASTE
V	HOT WATER
HW	VENT
CW	COLD WATER
HWR	HOSE BIBB W/ VAC BREAKER
HB	HOT WATER RECIRCULATION
GWH	GAS WATER HEATER
EWH	ELECTRIC WATER HEATER
SD	STORM DRAIN
(E)	EXISTING
(N)	NEW
HD	HUB DRAIN
OSD	OPEN SITE DRAIN
●	POINT OF CONNECTION (NEW TO EXISTING)



3 TYPICAL INSTANTANEOUS WATER HEATER DETAIL
P104 SCALE: N.T.S.

PLUMBING NOTES:

A. SCOPE

- PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. THE SYSTEM SHALL INCLUDE SEWERAGE, HOT AND COLD WATER PIPING, GAS PIPING, INSULATION, WATER HEATER, HANGERS, VALVES, SUPPORTS AND PLUMBING FIXTURES WITHOUT ANY RESTRICTING VOLUME, CUT AND PATCH AS REQUIRED TO INSTALL PIPES.
- ALL WORK AND MATERIAL SHALL CONFORM STRICTLY TO THE LATEST, LOCAL CITY, COUNTY, STATE AND NATIONAL GOVERNING CODES.
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITIES LOCATIONS, ELEVATIONS AND SIZES PRIOR TO COMMENCING ANY WORK, CONTRACTOR SHALL PAY ALL NECESSARY FEES FOR THE UTILITIES CONNECTIONS.
- CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING INVERTS AND SET NEW INVERTS OF SEWERAGE AND DRAINAGE PIPES.
- SEWERAGE LINES 3-INCH AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINES 4-INCH AND LARGER SHALL BE SLOPED 1/8" PER FOOT.
- TEST ALL PIPING AT REQUIRED PRESSURE.

B. PIPING MATERIALS

- DOMESTIC HOT AND COLD WATER PIPING AND FITTINGS UNDER THE SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE K, SOFT ANNEALED, NO JOINTS SHALL BE ALLOWED UNDER THE SLAB.
- DOMESTIC WATER PIPING AND FITTINGS ABOVE THE SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE L, HARD DRAWN WITH WROUGHT COPPER PRESSURE TYPE FITTINGS, ANSI B16.22 THE JOINTS SHALL BE SOLDERED TYPE USING ASTM B32, ALLOY GRADE 95A (95-5) SOLDER.
- SOIL, WASTE, VENT PIPING AND FITTINGS UNDER THE SLAB SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH BELL AND SPIGOT ENDS AND ONE PIECE NEOPRENE INSERT TYPE GASKET, USE PVC SCHEDULE 40 DWV PIPES AND FITTINGS WHERE PERMITTED BY THE CODE.
- SOIL, WASTE, AND VENT PIPING AND FITTINGS ABOVE THE SLAB SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH NO HUB TYPE FITTINGS AND STAINLESS STEEL CLAMPS, USE PVC SCHEDULE 40 PIPING AND FITTINGS WHERE PERMITTED BY THE CODE.
- ABOVE GROUND GAS PIPING SHALL BE BLACK STEEL SCHEDULE 40 WITH BLACK MALLEABLE IRON FITTINGS, THE GAS LINE SHALL BE RUN EXPOSED OR WELL VENTILATED SPACE INSIDE THE BUILDING.

C. INSULATION

- ALL WATER PIPING AND FITTINGS ABOVE THE FLOOR SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATION AND JACKET IN SUBJECT TO FREEZING AREA AND 1/2" THICK ELSEWHERE.

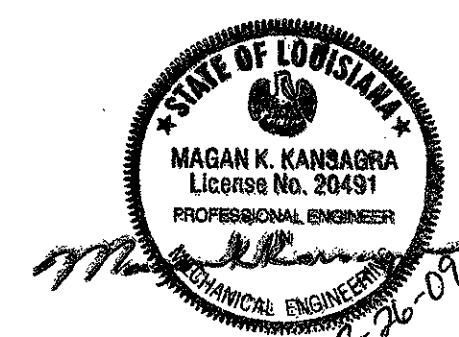
D. GENERAL

- ALL WATER LINES SHOWN ON DRAWINGS SHALL BE RUN ABOVE CEILING AND BELOW ATTIC FLOOR.
- PLUMBING CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR SITE UTILITIES.

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