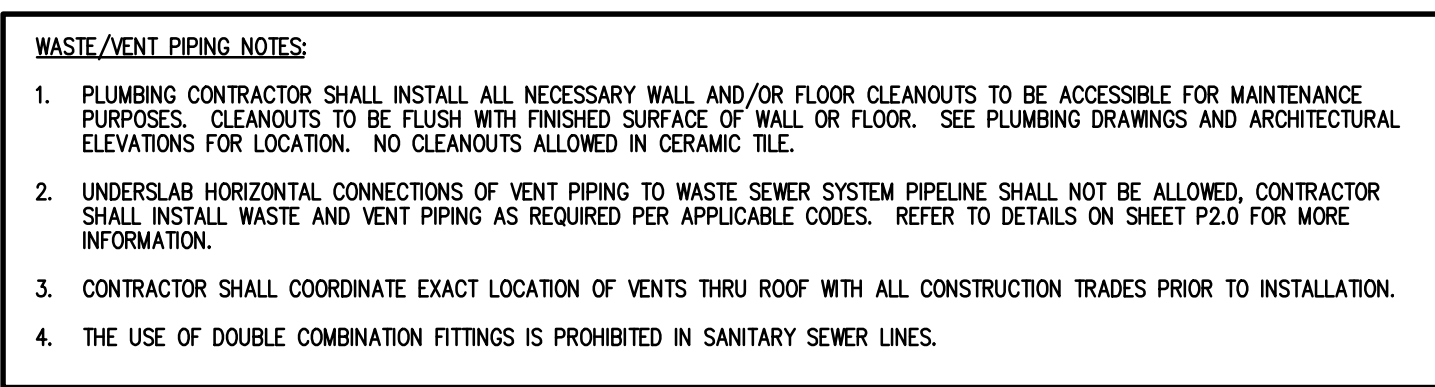




3
P.3.0 **WASTE/VENT SCHEMATIC** NTS

The diagram illustrates a waste/vent system layout. It features several RTUs (Rectangular Tank Units) labeled RTU 1 through RTU 8, each with a capacity of 150,000 BTU/H. The system includes multiple NPS (Nominal Pipe Size) connections, such as NPS 1, NPS 1½, NPS 2, and NPS 2½. A gas meter is installed by the utility company, with a note to verify the feed to the utility company point. The system also includes a receiving area labeled 112 and a sales area labeled 101. The piping is shown with various fittings, valves, and a gas meter. The diagram is a schematic representation of the physical system.

GAS METER INSTALLED
BY UTILITY COMPANY.
TO UTILITY COMPANY POINT OF
FEED (VERIFY)

NPS 2½

RTU 8
150,000
BTU/H

RECEIVING
112

NPS 2½

NPS 2½

RTU 3
150,000
BTU/H

NPS 2

RTU 2
150,000
BTU/H

NPS 1½

RTU 5
150,000
BTU/H

NPS 1

RTU 6
108,000
BTU/H

NPS 1½

NPS 1

RTU 4
180,000
BTU/H

NPS 1½

SALES AREA
101

NPS 2

RTU 7
180,000
BTU/H

NPS 1½

RTU 1
150,000
BTU/H

NPS 1

[illegible]

1. ALL WATER PIPING SHOULD BE COPPER TYPE "L". ALTERNATE PEX PIPING IS ACCEPTABLE, HOWEVER PRIOR TO SUBMITTING THE BID, PROPOSING CONTRACTOR SHALL VERIFY WITH LOCAL CODE OFFICIAL THAT PEX PIPING IS APPROVED FOR WATER DISTRIBUTION SYSTEMS. IF PEX PIPING IS APPROVED, ALL WATER PIPING 2" AND SMALLER SHALL BE ZURN PEX POLYETHYLENE TUBING. INSTALL TUBING PER MANUFACTURERS INSTRUCTIONS. DO NOT STORE PEX TUBING AND FITTINGS IN DIRECT OR INDIRECT SUN LIGHT.
2. EXPOSED PIPING AND SHUT-OFF VALVES IN CEILING IN BATHING AREA SHALL BE COPPER, NO EXCEPTIONS.
3. ALL PIPING, FITTINGS AND VALVES FOR WATER HEATERS CONNECTIONS SHALL BE COPPER.

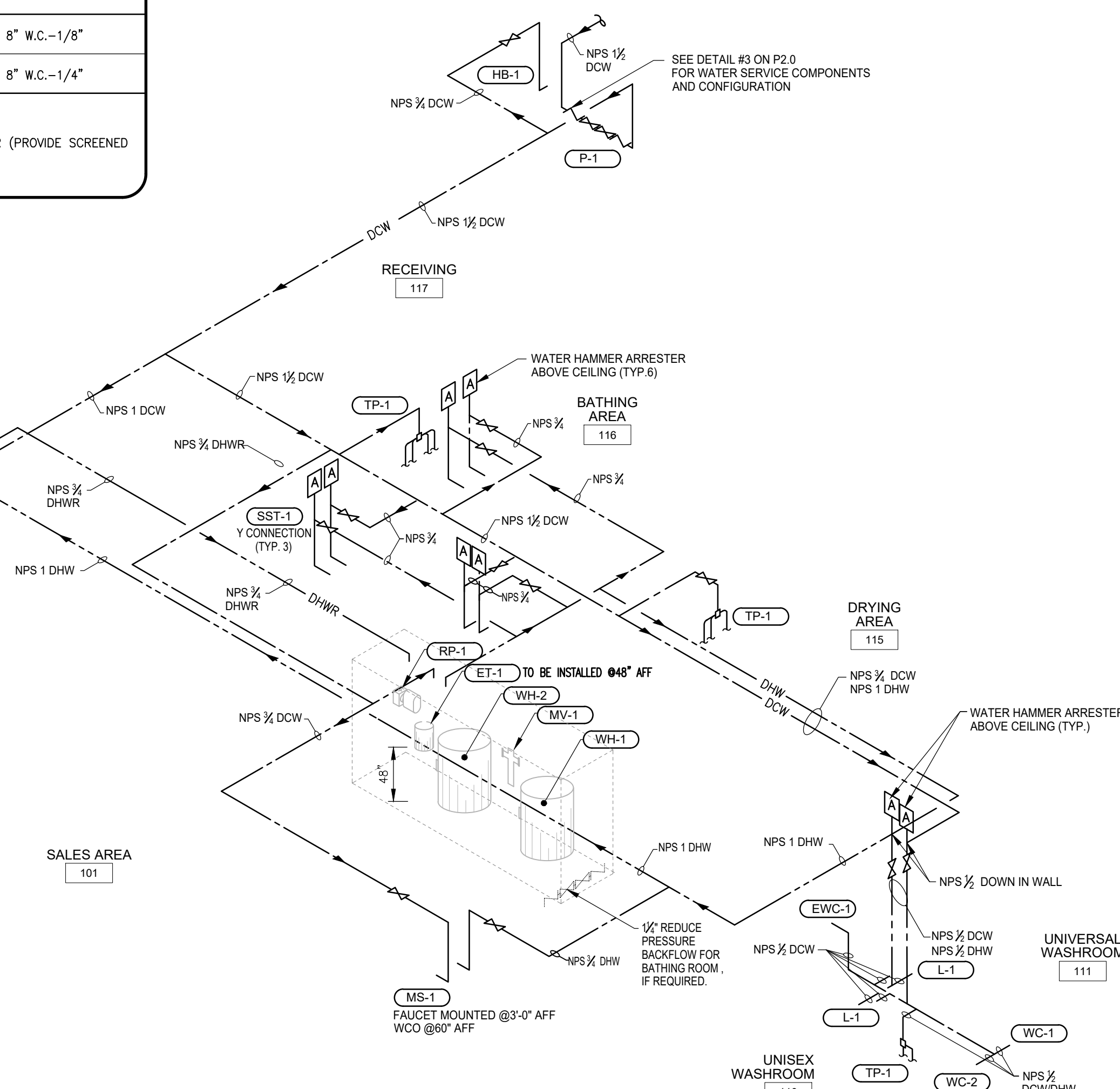
1 WATER SCHEMATIC
P3.0 NTS

1. PIPING SIZED PER CSA B139.1, SCH 40 METALLIC PIPE (2.0 PSI) INLET PRESSURE AND A 1.0 PSI PRESSURE DROP, 0.60 SPECIFIC GRAVITY NATURAL GAS. TOTAL GAS DEMAND = 908.000 BTU/Hr & TOTAL DEVELOPED LENGTH = 300 FEET.
2. CONTRACTOR SHALL VERIFY EXIST GAS DELIVERY PRESSURE AT THE CUSTOMER SIDE OF METER PRIOR TO BID. CONTRACTOR SHALL APPLY FIELD GAS SERVICE AND COORDINATE GAS SERVICE IN A TIMELY MANNER. IF THE DELIVERY PRESSURE IS DIFFERENT THAN THE GAS PRESSURE USED TO SIZE THE GAS PIPING, CONTRACTOR SHALL CONTACT THE PROFESSIONAL OF RECORD IMMEDIATELY FOR DIRECTION. IF THE PROFESSIONAL OF RECORD IS NOT CONTACTED, IT IS ASSUMED GAS PRESSURE IS VERIFIED AND ADEQUATE FOR THE SYSTEM DESIGNED ON THE DRAWINGS.

MANUFACTURER/MODEL	OFH CAPACITY	INLET PRESSURE	OUTLET PRESSURE	SPRING COLOR-RANGE-ORIFICE
ACTARIS/B-31R 3/4" x 3/4"	UP TO 150	2 P.S.I.G.	7" W.C.	L.T. GREEN-5.5 TO 8" W.C.-1/8"
ACTARIS/B-31R 3/4" x 3/4"	150 TO 400	2 P.S.I.G.	7" W.C.	L.T. GREEN-5.5 TO 8" W.C.-1/4"

NOTES:

1. REGULATORS ARE FULL CAPACITY INTERNAL RELIEF TYPE.
2. REGULATORS TO BE INSTALLED WITH RELIEF VENT IN POSITION TO PREVENT ENTRANCE OF WATER (PROVIDE SCREENED VENT ELBOW AS REQUIRED). VENT OPENING TO BE LOCATED 12" MIN. ABOVE ROOF LEVEL.
3. TAG REGULATOR WITH INLET AND OUTLET SETTINGS. AFFIX WARNING "DO NOT REMOVE".



* THIS PIPE LENGTH SHALL NOT BE INCLUDED WHEN/IF PRESSURE REGULATOR IS PROVIDED/REQUIRED.

** METER LOSSES SHALL NOT BE INCLUDED WHEN/IF PRESSURE REGULATOR IS PROVIDED/REQUIRED AND METER IS INSTALLED OUTSIDE THE BUILDING.

