

POSITION HEAT EXCHANGERS AND ASSOCIATED PIPING DROPS TO MAINTAIN SERVICE ISLE BETWEEN EXISTING HEAT EXCHANGERS.

(3) 24x42x2 LOUVERS CENTERED ABOVE EXISTING 24x54 LOUVERS.

AREAWAY ACCESS TO STREET LEVEL

USE THIS AREA WAY FOR EQUIPMENT REMOVAL AND INSTALLATION, POPLAR AVENUE ABOVE

EXISTING STEEL SLIDING DOOR

REROUTE 2" STM COND RET FROM ISLE TO BELOW WATER HEATER TO MAKE ROOM FOR INSTALLATION OF HEATEXCHANGERS AND ASSOCIATED PIPING.

STEAM BOILER PROCEDURE FOR TAKING STEAM BOILERS OFF LINE AT THE END OF HEATING SEASON: DRAIN OFF BOILER WATER UNTIL IT RUNS CLEAR WHILE HOLDING THE BOILER TEMPERATURE BETWEEN 180 AND 200F. THEN REFILL TO TOP OF GAUGE GLASS.

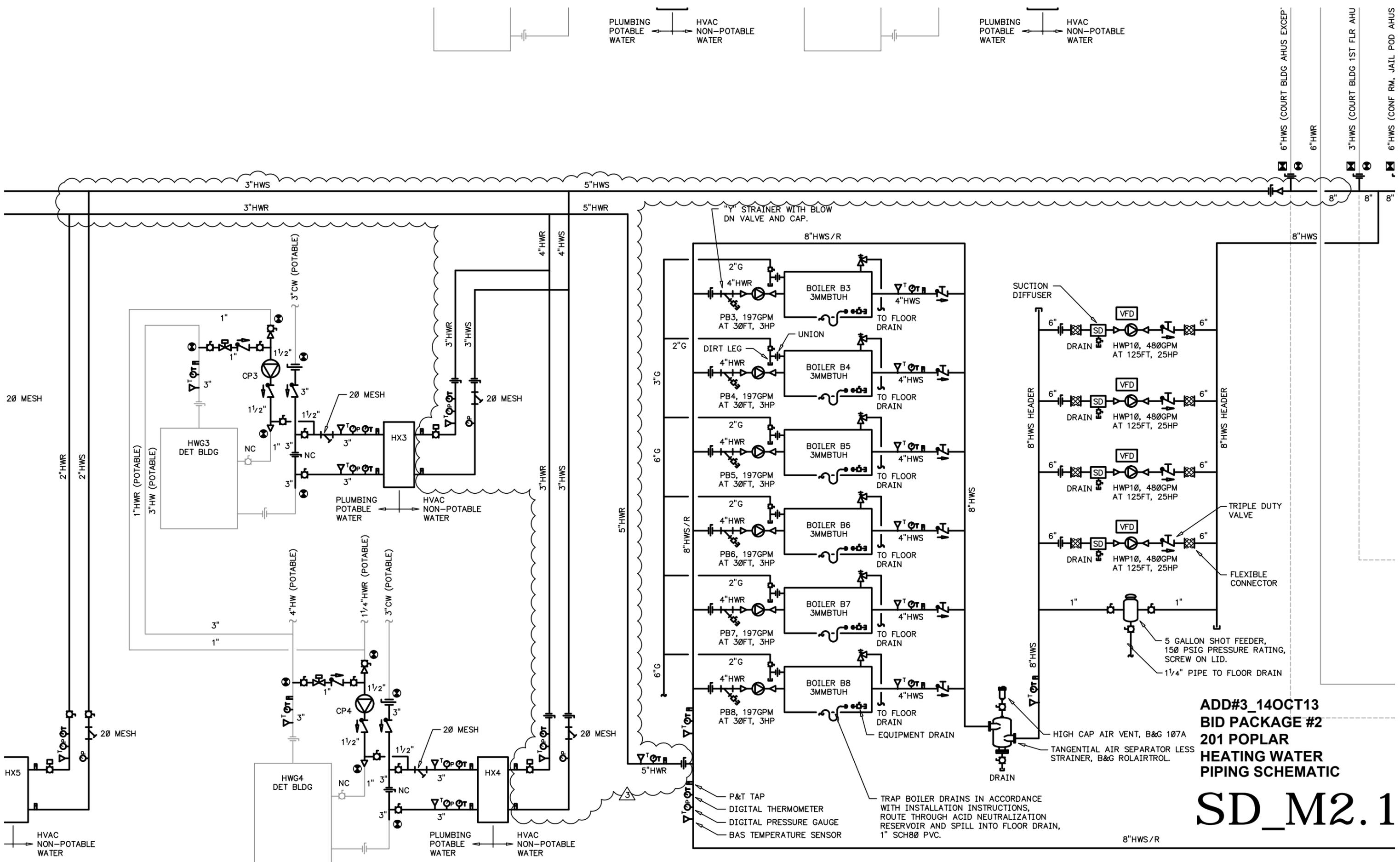
TAPS AT 3 AND 6 O'CLOCK
6" HWR, 130" BOP

ABANDON 8" V IN PLACE.

STEAM RELIEF VALVES.

ADD#3_14OCT13
 BID PACKAGE #2
 201 POPLAR
 MECHANICAL LEVEL
 EQUIPMENT RM ML-03
 MECHANICAL
 PIPING PLAN

SD_M1.1



PLUMBING POTABLE WATER
 HVAC NON-POTABLE WATER

PLUMBING POTABLE WATER
 HVAC NON-POTABLE WATER

**ADD#3_14OCT13
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 201 POPLAR
 HEATING WATER
 PIPING SCHEMATIC**

SD_M2.1

TRAP BOILER DRAINS IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS, ROUTE THROUGH ACID NEUTRALIZATION RESERVOIR AND SPILL INTO FLOOR DRAIN, 1" SCH80 PVC.

8"HWS/R

PLATE AND FRAME HEAT EXCHANGER SCHEDULE

DRAWING CODE	CAPACITY BTUH	HEAT TRANSFER AREA, SF	COLD SIDE					HOT SIDE					MANUFACTURER MODEL NUMBER	REMARKS
			GPM	MAX WPD FT	EWT DEGF	LWT DEGF	PIPE CONN	GPM	MAX WPD FT	EWT DEGF	LWT DEGF	PIPE CONN		
HX1	523,200	36.2	16	4.6	60	125.4	2.0	26.3	12.9	140	100	2.0	POLARIS PHE S20A-IG16	1,4
HX2	523,200	36.2	16	4.6	60	125.4	2.0	26.3	12.9	140	100	2.0	POLARIS PHE S20A-IG16	1,4
HX3	1,929,300	101.7	59	10.3	60	125.4	2.0	97.0	28.5	140	100	2.0	POLARIS PHE S20A-IG16	1,4
HX4	1,929,300	101.7	59	10.3	60	125.4	2.0	97.0	28.5	140	100	2.0	POLARIS PHE S20A-IG16	1,4
HX5	943,750	72.3	25	4.4	60	135.5	2.0	63.3	25.9	140	110	2.0	POLARIS PHE S20A-IG16	1,4
HX6	943,750	72.3	25	4.4	60	135.5	2.0	63.3	25.9	140	110	2.0	POLARIS PHE S20A-IG16	1,4

GENERAL: FACTORY FABRICATED PLATE AND FRAME HEAT EXCHANGER, BOLTED ASSEMBLY WITH 10% MORE PLATES THAN ARE REQUIRED BY PERFORMANCE SCHEDULE, THESE ARE APPLIED FOR POTABLE WATER HEATING USING NON POTABLE WATER, PROVIDE A VENTILATED DRAIN CAVITY BETWEEN POTABLE AND NON-POTABLE, ANSI 150LB FLANGED CONNECTIONS 2.5" AND LARGER, EPDM OR NITRILE GASKETS MECHANICALLY HELD IN PLACE WITHOUT GLUE, COMPLETE ASSEMBLY RATED FOR 150 PSI MAXIMUM WORKING PRESSURE, ASME STAMPED, 195 PSI TEST PRESSURE, 284F MAXIMUM TEMPERATURE.

REMARKS: REFER TO RIGHT HAND COLUMN IN EQUIPMENT SCHEDULE FOR REMARK APPLICABILITY.

- 1) 316 STAINLESS STEEL PLATES, AND WATERWAYS, FLANGES.
- 2) BRAZED PLATE CONFIGURATION ALLOWED.
- 3) 304 STAINLESS STEEL PLATES
- 4) PROVIDE TWO SETS OF PERFORMANCE DATA, ONE PROVIDING THE SCHEDULED PERFORMANCE AND ONE WITH THE 10% ADDITIONAL PLATES.

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 SCHEDULES

SD_M3.1