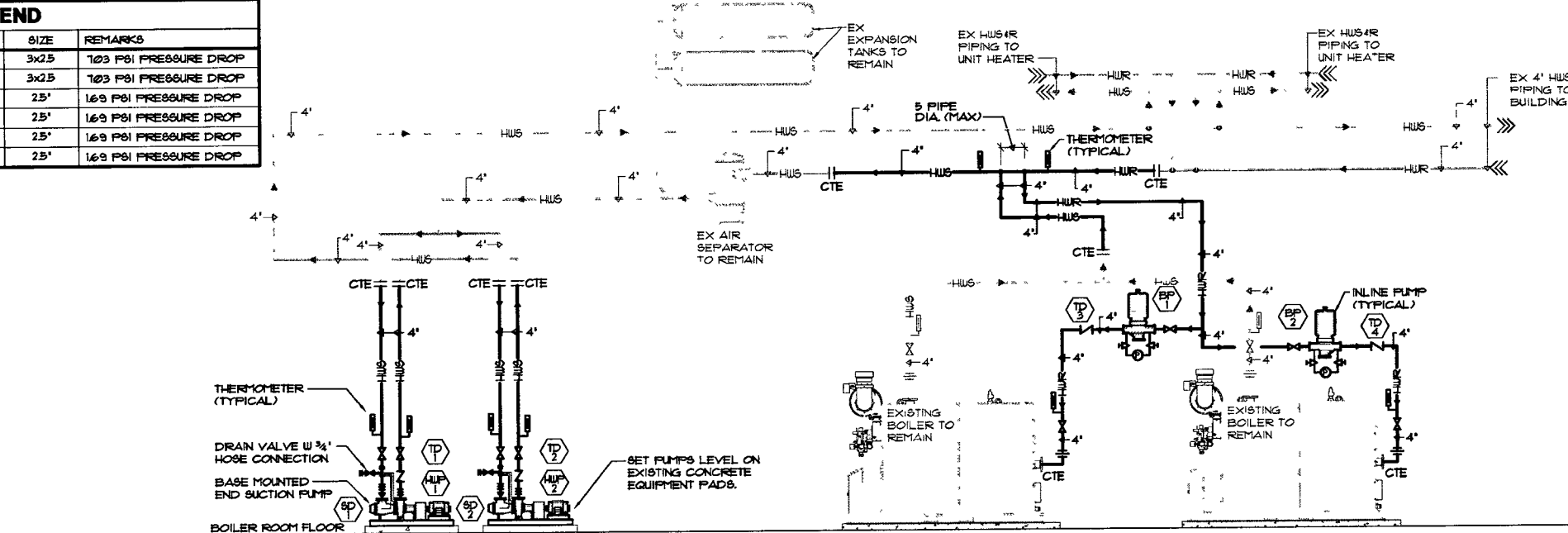


HOT WATER SYSTEM PIPING DIAGRAM

SCHEMATIC ONLY

EQUIPMENT LEGEND

TAG	DESCRIPTION	MANUFACTURER	MODEL #	SIZE	REMARKS
SD-1	SUCTION DIFFUSER	BELL & GOSSETT	DC-3	3x25	103 PSI PRESSURE DROP
SD-2	SUCTION DIFFUSER	BELL & GOSSETT	DC-3	3x25	103 PSI PRESSURE DROP
TD-1	TRIPLE DUTY VALVE	BELL & GOSSETT	3DS-250	25"	169 PSI PRESSURE DROP
TD-2	TRIPLE DUTY VALVE	BELL & GOSSETT	3DS-250	25"	169 PSI PRESSURE DROP
TD-3	TRIPLE DUTY VALVE	BELL & GOSSETT	3DS-250	25"	169 PSI PRESSURE DROP
TD-4	TRIPLE DUTY VALVE	BELL & GOSSETT	3DS-250	25"	169 PSI PRESSURE DROP

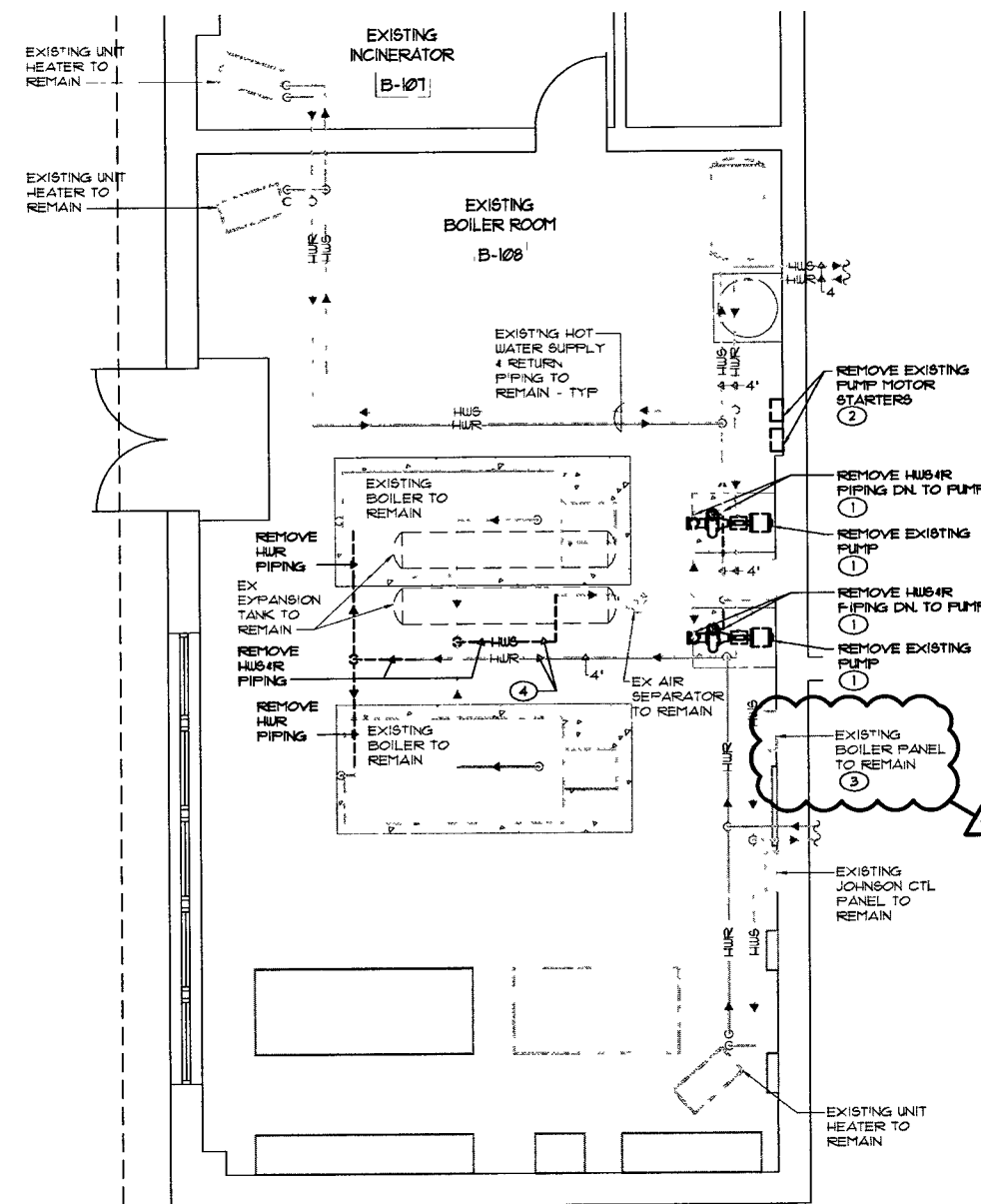


SHEET NOTES

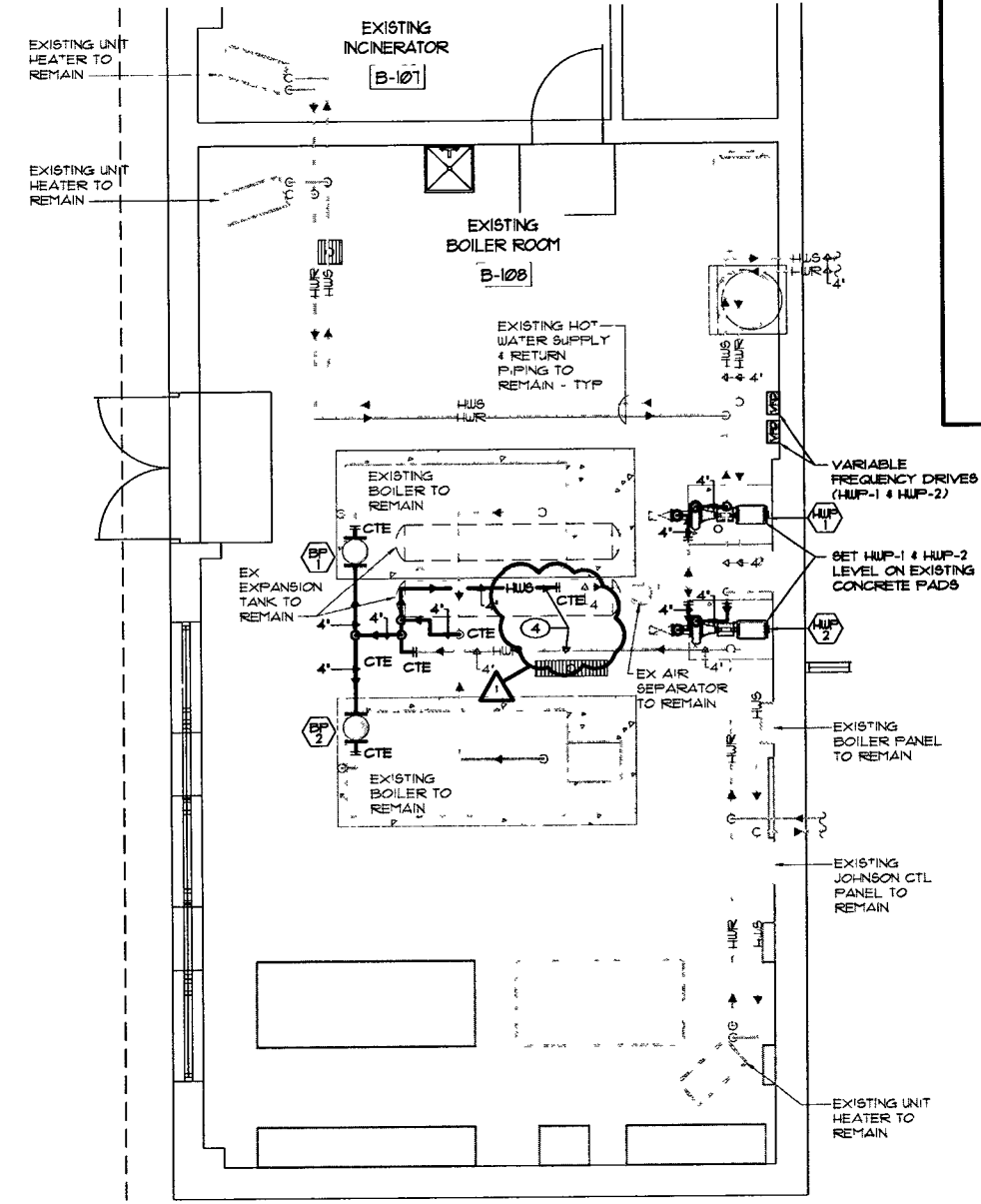
1. REMOVE EXISTING HOT WATER DISTRIBUTION PUMP AND ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, VALVES, CONTROLS, ELECTRICAL POWER CONNECTIONS, ETC. COMPLETE AS REQUIRED.
2. REMOVE EXISTING HOT WATER DISTRIBUTION PUMP MOTOR STARTERS AND ASSOCIATED CONTROLS, ELECTRICAL POWER CONNECTIONS ETC. COMPLETE AS REQUIRED.
3. INSPECT, TEST AND TROUBLESHOOT THE EXISTING BOILER CONTROL PANEL. PROVIDE A DEFICIENCY LIST WITH ASSOCIATED REPAIR COST TO PLACE BOILER CONTROL PANEL IN PROPER WORKING ORDER PER MANUFACTURER'S SPECIFICATIONS AND PLAN SEQUENCES.
4. PROVIDE ALL NEW TEMPERATURE WELLS AND SENSORS FOR NEW BOILER PIPING AS REQUIRED FOR A COMPLETE INSTALLATION.

SHEET NOTES

1. BOILER PLANT - MODIFY EXISTING SEQUENCE AS FOLLOWS (SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.)
 - A. MODIFY THE EXISTING HEATING COOLING CHANGE OVER TO INDEXING THE HEATING AND COOLING PLANTS FROM HEATING TO COOLING WILL BE ACTIVATED MANUALLY FROM THE BOILER ROOM OR FROM THE R10 WORKSTATION. (NOTE: CHILLER MUST BE FILLED WITH WATER BEFORE INDEXING SYSTEM TO THE COOLING MODE).
 - B. MODIFY THE EXISTING BOILER SEQUENCED TO MAINTAIN THE PRIMARY BUILDING LOOP WATER TEMPERATURE RESET SCHEDULE. RESET SCHEDULE SHALL BE DETERMINED BY THE R10 AND SHALL BE ADJUSTABLE, WITH INITIAL SCHEDULE OF 180 (ADJ.) F LOOP HOT WATER SUPPLY TEMPERATURE SET POINT AT 120 DEGREES F OUTSIDE AIR TEMPERATURE TO 140 (ADJ.) DEGREES F SET-POINT AT 60 F OUTSIDE AIR TEMPERATURE. PRIMARY LOOP TEMPERATURE SHALL BE SET TO MAINTAIN 180 (ADJ.) F WHEN OUTSIDE AIR TEMPERATURE IS BELOW 10 F. COORDINATE MINIMUM HOT WATER TEMPERATURE WITH BOILER MANUFACTURER RECOMMENDATIONS. PROVIDE TEMPERATURE SETPOINT RESET OUTPUT TO THE BOILER BURNERS FROM THE LOCAL DDC CONTROLLER.
 - C. NEW BOILER CIRCULATING PUMPS SHALL BE CONTROLLED BY THE BOILER CONTROL PANEL. BOILER PUMPS SHALL START ON A CALL FOR THEIR RESPECTIVE BOILER TO FIRE. BOILER PUMPS SHALL RUN FOR 3 MINUTES AFTER BOILER SHUTS DOWN.
2. BOILERS SHALL BE OFF IN THE SUMMER COOLING MODE.



1 BOILER ROOM FLOOR PLAN - MECHANICAL DEMOLITION
1/4" = 1'-0"



2 BOILER ROOM FLOOR PLAN - MECHANICAL
1/4" = 1'-0"



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2017 MECHANICAL RENOVATIONS AT:
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811 N. 400 E. VALPARAISO, IN. 46383



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REGISTERED
No. 10708283
STATE OF INDIANA
MECHANICAL ENGINEER

PROJECT NUMBER: 14-006
PROJECT NAME: CH
DRAWN BY: [Signature]
DATE: 08/29/2017
BOILER ROOM FLOOR
PLAN - MECHANICAL

M4.00