



MECHANICAL KEYED NOTES:

- 1 CLOSE EXISTING ISOLATION VALVE AND INSTALL THREADED CAP ON EXISTING 1-1/2" NATURAL GAS PIPING.
- 2 INSTALL THREADED CAP ON EXISTING 1" FUEL OIL SUPPLY AND RETURN PIPING AT (E) #2 DIESEL STORAGE TANK.
- 3 EXISTING #2 DIESEL STORAGE TANK AND CONTAINMENT BASIN.
- 4 EXISTING BLOWDOWN SEPARATOR WITH 5' Ø VENT THRU ROOF.
- 5 NEW ELECTRIC BOILER (B-2). RE-CONNECT ASSOCIATED UTILITIES AS INDICATED. NOT ALL UTILITIES ARE INDICATED ON PLANS, SECTIONS, OR ISOMETRIC VIEWS. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR ADDITIONAL SCOPE OF WORK. REFER TO MECHANICAL DEMOLITION PLAN FOR EXISTING UTILITIES TO REMAIN. MAINTAIN MINIMUM 36" CLEARANCE ON ALL SIDES AND 18" CLEARANCE ABOVE.
- 6 EXISTING 4" CONCRETE HOUSEKEEPING PAD. VERIFY PAD LEVEL AT NEW BOILER SKID LOCATION AND PROVIDE LEVELING WHERE NECESSARY.
- 7 EXTEND EXISTING 1-1/2" BOILER-FEEDWATER SUPPLY PIPING TO NEW BOILER (B-2). REFER TO BOILER PIPING DIAGRAM FOR REQUIRED VALVING.
- 8 FUTURE ELECTRIC BOILER (E)B-1. AVOID ROUTING ANY UTILITIES FOR NEW BOILER (B-2) WITHIN FUTURE BOILER FOOTPRINT OR CLEARANCES AREAS OF FUTURE BOILER.
- 9 EXTEND EXISTING 1-1/2" BOILER-FEEDWATER RETURN PIPING TO CREATE FEEDWATER LOOP.
- 10 STEAM VOLUMETRIC FLOW METER. 2" IN-LINE, 150 LB FLANGED DEVICE WITH TEMPERATURE AND PRESSURE MEASUREMENTS, EQUAL TO "SIERRA-INNOVAMASS: 240S-VTP-FC6-E4(20)DD-PSV6B-ST-MP3". PROVIDE REMOTE DISPLAY AND BACNET INTERFACE WITH EXISTING BAS. MOUNT DISPLAY TO BOILER CONTROL CABINET. COORDINATE MOUNTING LOCATION WITH BOILER MANUFACTURER. PROVIDE MINIMUM 15 PIPE DIAMETERS OF STRAIGHT PIPE UPSTREAM AND 5 PIPE DIAMETERS OF STRAIGHT PIPE DOWNSTREAM TO ENSURE METER ACCURACY. REFER TO ELECTRICAL PLAN FOR CIRCUITING INFORMATION.
- 11 EXISTING SAFETY RELIEF VENT AND DRIP PAN ELBOW. CONNECT SAFETY RELIEF VALVE DISCHARGE PIPING FROM NEW BOILER (B-2) TO EXISTING DRIP PAN ELBOW AND RE-ROUTE DRAIN PIPING TO EXISTING FLOOR DRAIN AS INDICATED.
- 12 4" Ø STM-55 CONNECTION FOR FUTURE BOILER. INSTALL GATE VALVE AND BLIND FLANGE. LOCATION INDICATED IS INTENDED TO MAINTAIN SEPARATION FROM FUTURE BOILER TO INSTALL STEAM FLOW METER.
- 13 SAFETY RELIEF VENT PIPE CONNECTION FOR FUTURE ELECTRIC BOILER. CAP VENT PIPING AT TOP AND BOTTOM OF STACK.
- 14 EXTEND EXISTING 2" BLOWDOWN PIPING MANIFOLD TO SERVE NEW BOILER (B-2). INSTALL VALVE AND CAP AT END OF MANIFOLD FOR FUTURE CONNECTION TO FUTURE BOILER. INSTALL ISOLATION AND CHECK VALVES FOR EACH PIPE CONNECTION TO BLOWDOWN MANIFOLD.
- 15 BOILER FEEDWATER LOOP MANUAL 3-WAY VALVE. ADJUST AND MARK VALVE POSITION TO MAINTAIN LOOP FLOWRATE MATCHING DEAERATOR FEEDWATER TRANSFER PUMP DISCHARGE FLOWRATE AND TO MAINTAIN FEEDWATER LOOP TEMPERATURE.
- 16 EXISTING STEAM HEADER PRESSURE GAUGE.
- 17 EXISTING BOILER FEEDWATER TEMPERATURE MONITORING AND CONTROLS AT EXISTING DEAERATOR TANK TO REMAIN.

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Design Phase
CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

Notes

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1 MECHANICAL PLAN
 1/4" = 1'-0"