**PLAN NOTES**

1. INSTALL ECCENTRIC REDUCERS WITH FLAT SIDE ON BOTTOM.
2. SPECIAL CLASS STEAM VALVES WITH WELDED ENDS PER SPECIFICATION 15506.
3. SIZE CONTROL PIPE PER MANUFACTURERS INSTRUCTIONS, MINIMUM 1/2".
4. INSTALL BOLTS MARKED "BD" FOR ALL FLANGED COMPONENTS IN THIS DETAIL.
5. ALL PIPE, FITTINGS, VALVES, ETC. WITHIN THIS BOUNDARY ARE TO BE HIGH PRESSURE STEAM PIPING SYSTEM COMPONENTS EVEN IF LABELED MPS. REFER TO SPECIFICATION 15505.
6. VALVE IN THIS POSITION SO THAT DRAIN LEG CAP CAN BE OPENED WITHOUT SHUTTING DOWN MAIN.
7. PROVIDE TEN STRAIGHT PIPE DIAMETERS MINIMUM FROM TEE TO PRV.
8. SEAL WELD FIRST VALVE IN TRAP DETAIL AT THIS LOCATION.
9. SEAL WELD FIRST VALVE AT GAUGE. SECOND VALVE IS THREADED.
10. MOUNT ENTIRE PRV STATION ON ROLLERS. ROLLERS SHALL BE FLOOR SUPPORTED (DO NOT ATTACH TO WALLS) WITH 4" x 4" x 5/16" ANGLE IRON STRUCTURE, ANCHOR AND GROUT FLOORPLATE.
11. PITCH PIPE DOWN FROM PRV AT 1/4" PER FOOT SLOPE MINIMUM OR GREATER IF PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
12. FIFTEEN DIAMETERS STRAIGHT PIPE RUN MINIMUM FROM ORIFICE PLATE TO TEE.
13. STRAINER WITH BLOW DOWN VALVE AND CAPPED NIPPLE. LAY STRAINER ON ITS SIDE TO MINIMIZE CONDENSATE BUILDUP.
14. INSTALL MUFFLING ORIFICE PLATE WITH PERFORATIONS ON UPSTREAM SIDE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
15. FIVE PIPE DIAMETERS STRAIGHT RUN MINIMUM UPSTREAM AND DOWNSTREAM OF ORIFICE PLATE.
16. ROTATE GATE VALVES 45 DEGREES FROM VERTICAL. INSULATE VALVE BONNETS.
17. KEEP SHUTOFF VALVES AND STRAINERS AS CLOSE TO THE TEE'S AS POSSIBLE.
18. SEE SAFETY RELIEF VALVE DETAIL.
19. INSTALL CONTROL PIPE MINIMUM TEN DIAMETERS DOWN STREAM OF ORIFICE PLATE.

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**MEDIUM PRESSURE REDUCING STATION (PRV-2) DETAIL**

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Facilities Standards

Medium Pressure Reducing Station Detail

DATE: 15 July 2011