DESIGN STANDARDS FOR: BOILER VALVES & MISC. EQUIPMENT

1. GENERAL

A. Boilers in all Seattle Parks and Recreation (SPR) facilities shall be plumbed as shown in the attached sketch. The sketch shows where SPR wants the eight (8) listed parts installed. The sketch also indicates where SPR wants isolation valves, check valves, strainers, pressure gauges, etc. located for ease of service, safety and to meet codes. Boilers shall have a disconnect-switch at the boiler and emergency shut down switch at exterior door to the boiler room. Disconnect-switches shall also be installed at all pumps and fans and easily accessible at the unit.

B. Following is the list of parts (catalog cuts are attached):

1. Provide cross fitting.

2. Dual auto fill model # F8

3. McDonnell-Miller low-water cut-off with manual reset (ball float type). Use McDonnell-Miller low-water cut-off with automatic reset for larger boilers.

4. Bell & Gossett airtrol system A. T. F. Airtrol tank fitting. Bladder tanks shall not be used. Use air filled tank with sight glass

5. Watts reduced pressure device (backflow preventer) Series 909 with strainer.

6. Use approved quick opening ball valve for low-water cut-off blow-off valve.

7. Bell & Gossett airtrol boiler fitting (A. B. F.)

8. Bell & Gossett flo-control valve.

C. Isolation valves shall be added upstream and downstream of circulating pump and other devices such as; expansion tanks, storage tanks, etc.

D. Provide fitting, isolation valve and automatic air bleed at all high points. Where applicable run tubing to drain or to area that is exposed so that they can be seen.

END OF SECTION