

## ADDENDUM

**Attention :** Mr. Michael Friberg  
Park District of Peoria, IL  
1314 N Park Road  
Peoria, IL 61604

**Subject :** Addendum No. 001  
To The Bid Documents For:  
Peoria Players Theater  
Boiler Replacement  
Peoria, Illinois

### Clarifications

1. Do hot water vales require insulation, or can they be left bare?
  - a. All new hot water piping, valves, flanges, and couplings shall receive new insulation. All existing piping and valves shall remain as is.
2. Is alternate # 1 replacing the existing floor pump?
  - a. Yes, alternate bid number 1 is to replace the existing base mounted end suction pump.
  - b. Under this alternate the pump vertical risers will be replaced to accommodate the new valves and accessories as shown on detail 3/H500.
3. Alternate bid number 2 is to add an air dirt separator to the existing system and as a result will require additional piping.
  - a. The new air separator will require insulation.
4. The new expansion tank will not require insulation.
5. The existing pot feeder shall be disconnected and reinstalled across the pump as base bid.
6. The existing wall opening between the boiler room and the adjacent space where the new combustion intake and exhaust flues are shown to pass though shall have the space around then flues infilled with a fire rated assembly. 3M Fire Barrier Block B258 or Equal.
7. Provide draining and filling of the closed loop hot water heating system and provide chemical treatment for closed loop hot water heating systems. Provide chemical treatment report for the A/E to review at the end of the project.
  - a. Water quality for hydronic systems shall minimize corrosion, scale buildup, and biological growth for optimum efficiency of hydronic equipment without creating a hazard to operating personnel or the environment.

- b. Base HVAC water treatment on quality of water available at Project site, hydronic system equipment material characteristics and functional performance characteristics, operating personnel capabilities, and requirements and guidelines of authorities having jurisdiction.
- c. Closed hydronic systems, including hot-water heating, chilled water and dual-temperature water, shall have the following water qualities:
  - 1) pH: Maintain a value within 9.0 to 10.5.
  - 2) "P" Alkalinity: Maintain a value within 100 to 500 ppm.
  - 3) Boron: Maintain a value within 100 to 200 ppm.
  - 4) Chemical Oxygen Demand: Maintain a maximum value of 100 ppm.
  - 5) Soluble Copper: Maintain a maximum value of 0.20 ppm.
  - 6) TSS: Maintain a maximum value of 10 ppm.
  - 7) Ammonia: Maintain a maximum value of 20 ppm.
  - 8) Free Caustic Alkalinity: Maintain a maximum value of 20 ppm.
  - 9) Microbiological Limits:
    - (a) Total Aerobic Plate Count: Maintain a maximum value of 1000 organisms/mL.
    - (b) Total Anaerobic Plate Count: Maintain a maximum value of 100 organisms/mL.
    - (c) Nitrate Reducers: Maintain a maximum value of 100 organisms/mL.
    - (d) Sulfate Reducers: Maintain a maximum value of zero organisms/mL.
    - (e) Iron Bacteria: Maintain a maximum value of zero organisms/mL.
- 8. Do we need to supply additional exterior vented regulators for the gas equipment?
  - a. See Key Note number 9
  - b. Adjustments to the natural gas service pressure and additional regulators may be required dependent on the boiler manufacturer to be used.
  - c. All new regulators installed within the building (if required) shall be vented to the exterior of the building.

Attachments

None



**Jonathan O'Bryan**  
Mechanical Engineer

Signature

Printed Name & Title