

SECTION 22 14 29

SUMP PUMPS

PART 0 GENERAL

0.01 OPERATION AND MAINTENANCE DATA

- A. Include documentation of inspections and tests performed, including logs, curves, and certificates.
- B. Documentation shall note replacement of equipment or components that failed during testing.

PART 1 PRODUCTS

1.01 ACCEPTABLE PRODUCTS

- A. Acceptable Sump Pump manufacturers:
 - 1. Weil
 - 2. Zoeller
- B. Acceptable Sewage Ejector manufacturers:
 - 1. Weil Pump Company
 - 2. Federal Pump Corporation
- C. Sump pumps Information:
 - 1. Duplex, submersible
 - 2. Mechanical float switches
 - 3. Remote-mounted pump panels with H.O.A. switch for each pump
 - 4. Alternator
 - 5. High-water audible and visual alarms, and dry contacts if connected to remote alarm (DDC or other)
 - 6. Two-pump run control
 - 7. Three phase protection for three phase motors
 - 8. NEMA 12 enclosure
 - 9. Gas-tight gasketed cover with grommets openings for piping and wiring
 - 10. Gas tight manhole
 - 11. Vent through dedicated vent stack. Label as such throughout.
 - 12. Quick-removal system for pumps

PART 2 EXECUTION

2.01 INSTALLATION

- A. Vibration Isolation: Mount equipment with motors larger than 5 hp on vibration isolation equipment base per standard Section 22 05 48 Mechanical Sound and Vibration.
- B. Wet-Pit-Mounted, Vertical Sewage Pumps: Suspend pumps from basin covers.
- C. Submersible Sewage Pumps: Set pumps on basin floor.
- D. Anchor quick-disconnect systems to bottom of basins and basin sidewalls or covers.
- E. Sewage Pump Basins: Set basin cover and fasten to basin top flange. Install cover so top surface is flush with finished floor.
- F. Connections: Coordinate piping installation and specialty arrangement requirements with schematics on drawings.
- G. Sanitary drainage and vent piping installation requirements are included in Division 23.

- H. Drawings shall indicate general arrangement of piping and specialties. The following are specific connection requirements:
1. Install discharge pipe sizes equal to or greater than diameter of pump nozzles, and connect to sanitary drainage piping.
 2. Install swing check valve and gate or ball valve on each sewage pump discharge. Include spring-loaded or weighted-lever check valves for piping NPS 2-1/2 and larger.

END OF SECTION 22 14 29