

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
- D. Rail Pumps over 3"

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