

VERMONT CONSTRUCTION SPECIFICATION

51 – PUMP

1. Scope

The work shall consist of installing the pump, motor and power connections as per the manufacturer's instructions.

2. Materials

The materials used in the manufacture of the pump shall be compatible. Special material requirements, where applicable, shall be shown on the drawings. Plastic impeller shall not be used.

3. Electrical Requirements

All electrical service, installation and connections shall be in compliance with the National Electrical Code (NEC) and all local regulations for installation of electrical equipment.

4. Performance

The pump shall be within the rated performance of the manufacturer. The performance shall include, model, impeller diameter, discharge and pressure. The drawings shall specify the discharge and pressure rating at the location of the pump station. A copy of the manufacturer's performance curve for the pump shall be submitted to the technician.

5. Foundation

The pump platform or foundation shall be of the materials and to the dimensions shown on the drawings. The pump shall be securely fastened to the foundation to provide for smooth, vibration free operation.

6. Pipe Connections

The inlet and discharge connection shall be sized for the pump based on the system operating curve and be installed to minimize losses through bends, valves and transitions. The pumping schematic shall be reviewed by the technician before installation.

7. Power Sources

The power sources may internal combustion engines, electrical motors or power take-offs. The shields or guard from the drive units shall be in place and properly secured. All electrical operated units shall be properly grounded. The power source shall be shown on the drawings.