

**NATURAL RESOURCES CONSERVATION SERVICE
CONSTRUCTION SPECIFICATION**

FOR

PUMPING PLANT

SCOPE

The work shall consist of furnishing the materials and constructing the pumping plant to the lines and grades specified as shown on the drawing or as staked in the field.

PUMP AND POWER UNIT

The pump or combination of pumps shall be capable of delivering the required water capacity at the total dynamic head and efficiency as specified on the drawings. The power unit shall be capable of operating the pump at the maximum capacity and head without being in an overload condition. The pump supplier and/or contractor shall provide a copy of the Manufacturer's pump curve, ratings, and other operating data to determine they will meet the capacity, head, and other operating requirements as specified on the drawings.

All pertinent safety codes and manufacturer's recommendations shall be followed in the installation of the equipment. All revolving engine and pump components shall be shielded or guarded to minimize inadvertent contact.

The pump and motor assembly shall be set on a firm base and securely fastened. The base shall be capable of withstanding the pump vibration and the dead load weight of the pump and motor assembly.

ELECTRICAL WORK

All electrical wiring and equipment shall be in accordance with current standards of the National Electrical Manufacturer's Association (NEMA), the Underwriters Laboratory, INC. (UL), the State of Missouri and applicable county regulations.

TESTING

The installer or contractor shall demonstrate by testing that the pumping equipment will function at the design flow and pressure.

Gates, valves, pipe connections, discharge bays, power units, pumps, automatic controls, suction pipe, bays, and other accessories and appurtenances shall perform satisfactorily.

CONSTRUCTION OPERATIONS

Construction operations shall be done in such a manner that erosion and air and water pollution are minimized and held within legal limits. The owner, operator, contractor or other persons will conduct all work and operations in accordance with proper safety codes for the type of construction being performed with due regards to the safety of all persons and property.

The completed job shall be workmanlike and present a good appearance.

