

## SECTION 16000

### GENERAL ELECTRICAL REQUIREMENTS

#### PART 1 GENERAL

##### 1.1 DESCRIPTION OF WORK

- A. Furnish and install all electrical Work as shown on the Drawings and specified. Work includes electrical connections to equipment, wiring devices, disconnects, panelboards for electrical distribution, service entrance, conduit, conductors, and control panels.

##### 1.2 RELATED WORK

- A. Refer to all drawing sheets for the scope of the electrical work.

##### 1.3 QUALITY ASSURANCE

- A. All work to be completed to latest edition of National Electrical Code.
- B. All material to be U.L. listed.
- C. All equipment to conform to ANSI and NEMA standards.

##### 1.4 SHOP DRAWINGS

- A. Submit complete Shop Drawings for:
  - 1. Wiring Devices
  - 2. Sanitary Lift Station Pump Control Panel (See Section 16901)
  - 3. SCADA Telemetry System (See Section 16902)

##### 1.5 CERTIFICATES AND FEES

- A. The Electrical Contractor will pay for all fees, connection charges, permits and inspections.

##### 1.6 GROUNDING

- A. All grounding, as a minimum, will be according to the latest edition of the National Electrical Code, Article 250. Provide a full-size grounding conductor in all conduits.

## **1.7 DELIVERY, STORAGE AND HANDLING**

- A. Deliver all materials and equipment direct to the job site utilizing Contractor's personnel and not to the Owner's receiving area.
- B. Store all materials and equipment in a dry area, protected from the weather. Verify location of storage areas with the Owner.

## **1.8 EXISTING CONDITIONS**

- A. Visit the site and become familiar with existing conditions and limitations.
- B. Perform all cutting necessary to install the electrical work indicated and all patching, painting, etc. to return the finished surfaces to the original condition. All wiring devices to be installed flush unless noted otherwise.

## **PART 2 PRODUCTS**

### **2.1 CONDUIT**

- A. PVC below grade. Rigid steel conduit (RSC) for exterior above grade.

### **2.2 CONDUCTORS**

- A. Copper, THHN-2. Minimum size is #12 with other sizes as shown on Drawings.

### **2.3 WIRING DEVICES**

- A. Equal to Hubbell, specification grade, ivory in color.

### **2.4 DEVICE PLATES**

- A. Plastic, ivory, equal to Sierra "P" series.

### **2.5 MANUAL MOTOR STARTERS**

- A. Equal to Square D, size as required for motor, fractional horsepower controller.

### **PART 3 EXECUTION**

#### **3.1 GENERAL**

- A. Install all electrical Work as shown on the Drawings.
- B. Utilize conduit for all feeders, branch circuiting, and control wiring.
- C. Coordinate service requirements with Unisource Energy Services.  
Contact Ron Holmgreen 928-505-7031

**\*\* END OF SECTION 16000 \*\***