

SECTION 260500 - BASIC REQUIREMENTS

PART 1 - GENERAL

1.1 SCOPE

- A. Drawings for the work are diagrammatic, intended to convey the Scope of the Work and to indicate the general arrangement and locations of the work. Because of the scale of the drawings, certain basic items such as conduit fittings, access panels, sleeves, pull and junction boxes may not be shown. Where such items are required by Code or by other sections, such items shall be included.
- B. Equipment Specification may not deal individually with minute items such as components, parts, controls and devices which may be required to produce the equipment performance specified or as required to meet the equipment warranties. Where such items are required, they shall be included by the supplier of the equipment, whether or not specifically indicated.
- C. Coordinate with all trades in submittal of shop drawings. Shop drawings shall detail space conditions to the satisfaction of all concerned trades, subject to review and final acceptance by the Owner. In the event that the Contractor installs his work before coordinating with other trades or so as to cause any interference with work of other trades, the necessary changes shall be made in the work to correct the condition, at no additional cost to the Owner.

1.2 TEMPORARY LIGHTING AND POWER

- A. Furnish, install and maintain temporary lighting and power to be used by all trades during construction. The entire system shall be grounded. Contractor shall be responsible for all utility costs for temporary service.

1.3 SUPERVISION OF THE WORK

- A. Provide field superintendent who has had a minimum of four (4) years previous successful experience on projects of comparable sizes and complexity. Superintendent shall be present at all times that work under this Division is being installed or affected.
- B. Provide resume of Field Superintendent's qualifications and experience.

1.4 DELIVERY AND STORAGE

- A. Handle, store and protect equipment and materials in accordance with the manufacturer's recommendations and with the requirements of NFPA 70B, Appendix J, titled "Equipment Storage and Maintenance During Construction". Replace damaged or defective items with new items.

1.5 ELECTRICAL CONNECTIONS

- A. All connections shall be tightened to the torque values recommended by that device manufacturer's instructions.

1.6 TESTS

- A. Perform ground resistance tests per requirements of Section 264500.

1.7 DEMONSTRATIONS

- A. Prior to acceptance of the work, the Contractor shall demonstrate to the Owner, or his designated representative, all features and functions of all systems and shall instruct the Owner in the proper operation of the systems. Each system shall be demonstrated once.
- B. The demonstrations shall consist of not less than the following:
 - 1. Point out the actual location of each component of a system and demonstrate its function and its relationship to other components within the system.
 - 2. Demonstrate the electrical systems by actual "start-stop" operation showing how to work controls, how to reset protective devices, and what to do in an emergency.
- C. Systems to be demonstrated shall include but not be limited to the following:
 - 1. Power distribution systems
 - 2. Lighting and lighting control systems
 - 3. Motor and equipment control
 - 4. Telephone cabling system and terminations
 - 5. Data cabling system and terminations
 - 6. Telephone system
 - 7. TV system

1.8 IDENTIFICATION

- A. Provide phenolic plastic nameplates or stenciled painted for all meter centers, non-residential/house panels, disconnect switches, telephone/TV terminal cabinets and fire alarm panels/terminal cabinets.
- B. Contractor shall provide identification for wiring systems and equipment, including arc-flash protection markings per NEC 110.16 and identification of disconnecting means per NEC 110.22.
- C. Panelboards shall have type-written or laser printed circuit directories installed inside the doors under transparent plastic covers.
 - 1. Directory shall identify room type and load served.

1.9 SUBMITTALS

- A. Submittal data for electrical equipment shall consist of Shop Drawings and/or catalog cuts showing technical data necessary to evaluate the material or equipment, to include dimensions, wiring diagrams, performance curves, ratings, control sequence and other descriptive data necessary to describe fully the item proposed and its operating characteristics. Any submittal data in following electrical sections, specific to that section, is in addition to submittal requirements of this section.

1.10 FIRE STOPPING

- A. Penetrations of rated walls and floors shall be sealed to prevent passage of fire, smoke, toxic gases and water. Maintain the fire/or smoke rating of all rated wall and floors.
- B. Sealing material shall be performed with the use of material specifically intended for the purpose and application. Method of installation shall conform to the manufacturer's instructions and to applicable codes and standards.

1.11 RECORD DRAWINGS

- A. At the job site, maintain a set of prints on which are recorded all formal field changes and other portions of the work that vary significantly from the contract documents. Indicate actual routing of electrical feeders.
- B. Deliver record drawings to the Architect or Contractor in the quantity and manner specified in Division 1 - General Requirements.

1.12 MAINTENANCE MANUALS

- A. Provide three (3) maintenance manuals containing product data, shop drawings, wiring diagrams, instructions and part lists for maintaining and operation electrical systems and equipment. Include a description of normal adjustments and a list of items requiring periodic maintenance and the frequency required. Provide Owner with any special tools required.
- B. Deliver maintenance manuals to the Owner at the time of the demonstration of systems and equipment.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

END OF SECTION 260500