SECTION 26 0501
COMMON ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Includes But Not Limited To:
   1. General electrical system requirements and procedures.
   2. Perform excavating and backfilling work required by work of this Division as described in Contract Documents.
   3. Make electrical connections to equipment provided under other Sections.
   4. Furnish and install Penetration Firestop Systems at electrical system penetrations as described in Contract Documents.

B. Products Supplied But Not Installed Under This Section:
   1. Anchor bolts and templates for exterior lighting equipment bases.

C. Related Sections:
   1. Section 07 8400: Quality of Penetration Firestop Systems to be used on Project and submittal requirements.
   2. Section 31 2316: Criteria for performance of excavating.

1.2 SUBMITTALS

A. Product Data:
   1. Provide following information for each item of equipment:
      a. Catalog Sheets.
      b. Assembly details or dimension drawings.
      c. Installation instructions.
      d. Manufacturer's name and catalog number.
      e. Name of local supplier.
   2. Furnish such information for following equipment:
      a. Section 26 2726: Wiring devices.
      b. Section 26 2816: Enclosed switches and circuit breakers.
      c. Section 26 2417 / 8: Panelboards.
      d. Section 26 5100: Interior lighting fixtures.
      e. Section 26 5600: Exterior lighting fixtures, poles, and associated control equipment.
      f. Section 26 5200: Emergency battery units.
      g. Section 26 0520: Heating cable equipment.
   3. Do not purchase equipment before approval of product data.

B. Shop Drawings:
   1. Submit on Panelboards.
   2. Indicate precise equipment to be used, including all options specified. Indicate wording and format of nameplates where applicable. Submit in three-ring binder with hard cover.

C. Quality Assurance / Control:
   1. Report of site tests, before Substantial Completion.

D. Closeout:
   1. Operations And Maintenance Manual Data:
      a. Modify and add to requirements of Section 01 7000 as follows:
1) Provide operating and maintenance instructions for each item of equipment submitted under Product Data.
2) Include copy of approved shop drawings.

1.3 QUALITY ASSURANCE

A. Requirements of Regulatory Agencies:
   1. NEC and local ordinances and regulations shall govern unless more stringent requirements are specified.
   2. Material and equipment provided shall meet standards of NEMA or UL, or ULC, CSA, or EEMAC and bear their label wherever standards have been established and label service is available.

B. Materials and equipment provided under following Sections shall be by same Manufacturer:
   1. Sections 26 2416, 26 2816, and 26 2913: Panelboards, Enclosed Switches And Circuit Breakers, and Enclosed Controllers

1.4 OWNER'S INSTRUCTIONS

A. Provide competent instructor for three days to train maintenance personnel in operation and maintenance of electrical equipment and systems. Factory representatives shall assist this instruction as necessary. Schedule instruction period at time of final inspection.

PART 2 - PRODUCTS: Not Used

PART 3 - EXECUTION

3.1 APPROVED INSTALLERS

A. Category Four Approved Electrical Installers. See Section 01 6000 for definitions of Categories.
   1. <Insert approved electrical subcontractors>.
   2. Approved electrical installer shall be pre-approved and included in Construction Documents by Addendum.

3.2 EXAMINATION

A. All relocations, reconnections, and removals are not necessarily indicated on Drawings. All such work shall be included without additional cost to Owner.

B. Confirm dimensions, ratings, and specifications of equipment to be installed and coordinate these with site dimensions and with other Sections.

3.3 INSTALLATION

A. General:
   1. Locations of electrical equipment shown on Drawings are approximate only. Field verify actual locations for proper installation.
   2. Coordinate electrical equipment locations and conduit runs with those providing equipment to be served before installation or rough-in.
      a. Notify Architect of conflicts before beginning work.
      b. Coordinate locations of power and lighting outlets in mechanical rooms and other areas with mechanical equipment, piping, ductwork, cabinets, etc, so they will be readily accessible and functional.
3. Work related to other trades which is required under this Division, such as cutting and patching, trenching, and backfilling, shall be performed according to standards specified in applicable Sections.

B. Install Penetration Firestop System appropriate for penetration at electrical system penetrations through walls, ceilings, and top plates of walls.

3.4 FIELD QUALITY CONTROL

A. Site Tests: Test systems and demonstrate equipment as working and operating properly. Notify Architect before test. Rectify defects at no additional cost to Owner.

B. Measure current for each phase of each motor under actual final load operation, i.e. after air balance is completed for fan units, etc. Record this information along with full-load nameplates current rating and size of thermal overload unit installed for each motor.

END OF SECTION