

SECTION 16420

SERVICE ENTRANCE

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Arrangement with Power Company to allow removal of existing service and for permanent electric service including payment of Power Company charges.
- B. Arrange with Power Company to provide proper metering.

1.02 RELATED SECTIONS

- A. Section 16010: Basic Electrical Requirements.

1.03 SYSTEM DESCRIPTION

- A. System Voltage: 120/208 volts, three phase, four wire, 60 Hertz.
- B. Service Entrance: As indicated on Drawings.

1.04 REGULATORY REQUIREMENTS

- A. Conform to requirements of ANSI/NFPA 70. (N.E.C.)
- B. Furnish products listed and classified by Underwriters Laboratories, Inc. (U.L.) as suitable for purpose specified and shown.
- C. Power Company: CMP Co.
 - 1. Central Maine Power Co, Tel 207-842-2367
 - 2. Contact: James Cough, Technical Service Advisor
- D. Install in accordance with Power Company's rules and regulations.

1.05 SUBMITTALS

- A. Submit Shop Drawings, Owner's Manuals, and Operating Instructions in accordance with Section 01300, Submittals.
- B. Include metering and confirmation that it meets power company standards.

PART 2 - PRODUCTS

2.01 SECONDARY CONDUCTORS

- A. Specified Under Section 16123: Wire and Cable.

2.02 CONDUITS AND DUCT BANKS

- A. Specified Under Section 16111: Conduit.
- B. Duct Banks: Minimum three inch concrete cover all sides. Form sides for smooth finish to minimize frost action.

- C. Concrete for Ductbanks: Specified under Section 03300 - Cast-In-Place Concrete: Minimum 3000 psi concrete with one-inch maximum aggregate.
- D. Separators: High impact polystyrene, spaced not to exceed 5'-0". Stagger the joints of the conduits by rows and layers.

2.03 METERING

- A. Self contained 400 Amp 3 phase 4 wire. Size and details as approved by the Power Company.
- B. Install per Power Co requirements.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Make arrangements with Power Company to obtain permanent electric service to the Project.
- B. Underground: Install service entrance conduits in concrete envelope from riser pole to building service entrance equipment.
- C. Earthwork: Excavation, backfilling, and pavement repairs for electrical requirements: Provided under Section 02200.

END OF SECTION