

**ITEM 662.18110125 - FURNISH AND INSTALL PVC CONDUIT(S) OFF STRUCTURE (TELEPHONE)**

**1. DESCRIPTION:**

1.01 This work shall consist of furnishing and installing PVC conduits and fittings of the number, type, and at the locations indicated in the contract documents and in accordance with the applicable specifications and standards of Verizon. The Contractor may contact Verizon for information at the following office:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**2. MATERIALS:**

2.01 Type "C" PVC conduits shall be 4 NPS (4" I.D.) one ended bell, sweeps and fittings, telephone white, and conforms to GT8343, United CHS-71, and Nema TC-10. Schedule 40 PVC multiple conduits (Quad) shall be 4 Way 1 ¼ NPS (1 ¼" I.D.), one ended bell, sweeps and fittings, and conforms to UL Standard 651, Nema TC2-1990, and Federal Specifications WC 1094 A. Conduit manufacturer shall be American U-Tel or approved equal. PVC cement shall be supplied to join sections of PVC conduit as per manufacturer's recommendations.

Pull cords shall be 10 mm polypropylene rope.

**3. CONSTRUCTION DETAILS:**

3.01 The Contractor shall install Type "C" and/or Schedule 40 PVC conduits at locations shown on the plans or as directed by the Engineer. Conduit bends, where required, shall be made using standard fittings without appreciably reducing the internal diameter. All conduits installed shall be tested for clear bore and correct installation by the Contractor using a ball mandrel, brush and snake

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before the installation will be accepted. The ball shall be approximately 85 percent of the internal diameter of the raceway to be tested. Two short wire brushes shall be included in the mandrel assembly. Snaking of the installing cord for the conduits shall be done by the Contractor in the presence of the Engineer. All conduits which rejects the mandrel shall be cleared at once; the Contractor bearing all costs to replace defective conduit. All empty conduits and duct openings shall be capped or plugged by the Contractor as directed by the Engineer. Polypropylene rope shall be installed in all fiberglass conduits.

Excavation shall be in accordance with the provisions of Trench and Culvert Excavation in Section 206 of the NYSDOT Standard Specifications.

Whenever excavation exceeds 1.5 meters in depth, sheeting shall be used and shall meet the requirements of Section 552 of the NYSDOT Standard Specifications. Backfill shall meet the requirements of and be in accordance with Items shown on the plans or as directed by the Engineer.

**4. METHOD OF MEASUREMENT:**

4.01 This work will be measured as the number of linear feet of 4 NPS Type "C" and/or 4 Way 1 ¼ NPS Schedule 40 PVC conduits furnished and installed as shown in the plans and/or as directed by the Engineer.

**5. BASIS OF PAYMENT:**

5.01 The unit price bid shall include the cost of furnishing all labor, materials and equipment necessary to complete the work. The cost of Trench and Culvert Excavation, Backfill, Temporary Pavement and Sawcutting shall be paid for separately under the appropriate items.

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