

ITEM 08206.030602M – FURNISH AND INSTALL 2 NPS CONDUIT

DESCRIPTION:

This work shall consist of installing conduits under new roadway pavement as shown on the plans and as directed by the Engineer.

MATERIALS:

Schedule 80 extra heavy wall PVC conduits shall be in accordance with subsection 723-19, Rigid Plastic Conduit of the standard NYSDOT specifications.

Schedule 80 extra heavy wall PVC conduit shall comply with NEMA type TC-2, Federal Specifications WC1904A, Underwriters Laboratories UL 651 and the National Electrical Code Article 347.

Fittings for schedule 80 extra heavy wall PVC conduit shall comply with NEMA type TC-3, Federal Specifications WC1904, Underwriters Laboratories UL 514 and the National Electrical Code Article 347.

All conduit and fittings shall be solvent cemented in accordance with the manufacturer's instructions and comply with ASTM D2564.

CONSTRUCTION DETAILS:

Conduits shall be installed as detailed on the contract plans and as required by the National Electrical Code table 300-5. Conduit installation shall be coordinated with other construction operations. Conduit fittings other than couplings shall not be used under the roadway surface.

Subsequent to the completion of the roadway pavement, a test shall be conducted to verify that the conduit is still functional. The conduit shall be tested for clear bore and correct installation in the presence of the Engineer. Subsequently, a conduit detection system shall be installed in all sections of the installed conduit. Separate runs of wire shall be installed between each pull-box. The locator wire shall be 2 conductor traffic signal cable, 14 gauge. After the locator wire is installed, a test shall be conducted to verify conductivity between the pull-boxes. Subsequent to installation of the pull-wire, the ends of the conduits in the pull-boxes shall be sealed according to standard procedures.

METHOD OF MEASUREMENT:

Install 2 NPS conduit under new roadway section will be measured by the number of meters of conduit actually installed and tested in accordance with the Contract Documents and as directed by the Engineer.

BASIS OF PAYMENT:The unit price bid per meter shall include the cost of furnishing all labor, materials, and equipment, including excavation, backfill, compaction necessary to complete the work as detailed in the contract documents.