

ITEM 680.5150–25 – ELECTRICAL PULL BOX (36 IN x 24 IN x 36 IN)

1. DESCRIPTION:

- 1.01 This work shall consist of furnishing and installing concrete pull boxes in accordance with the details indicated in the plans at the locations indicated on the plans or where directed by the Engineer.
- 1.02 The fiber optic pull box shall include the following work items:
 - A. Stakeout
 - B. Excavation
 - C. Concrete Pull Box
 - D. Lid and Frame
 - E. Backfill Materials and Site Restoration

2. MATERIALS:

- 2.01 Each precast pull box shall be concrete, rectangular with a cast steel or cast iron cover and cast iron frame.
- 2.02 Except for inside dimensions, the pull box construction shall conform to Division of Street Lighting drawings #J3179-A (grade/sidewalk) and #J3179-B (roadway/shoulder). Pull box size shall meet the minimum internal dimensions mentioned in item title.
- 2.03 The cover of the pull box should have “NYSTA ELECTRICAL” embossed on it.
- 2.04 The pull box, frame, and cover shall have sufficient mechanical strength to withstand the [REDACTED]
- 2.05 Shop drawings shall be submitted which detail the pull box, frame, lid and hangers.

3. CONSTRUCTION DETAILS:

- 3.01 A drain shall be provided at the bottom of the pull box. A drywell shall be installed below the drain and consist of 1.0 cubic foot of broken stone.
- 3.02 A copper weld ground rod shall be installed at the drain and connected to the equipment grounding conductor. Ground rod shall be a minimum of 8 ft by 0.75 in.
- 3.03 Install pull box with top flush with finished surface.
- 3.04 Install internal rigid plastic brackets for looping excess cable as shown on the pull box detail drawing.
- 3.05 Conduits shall ride freely through box to allow for expansion/contraction.
- 3.06 See Plans for details of ground rod installation, cable brackets, conduit entries, cover, and nameplate.
- 3.07 Subsections 680-3.01, .04, .06, .09, .12, .13 and .14 of the Standard Specifications shall apply to the work of this item.
- 3.08 Soil in the vicinity of the pull box shall be vibrated and thoroughly compacted around the entire pull box up to grade.

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3. CONSTRUCTION DETAILS: (cont'd)

- 3.09 Any holes for conduit and cable entry shall be carefully drilled or punched into the side of the pull box. After insertion of conduits or cables, holes shall be tightly and thoroughly sealed with grout to the satisfaction of the Engineer. A copper clad ground rod, ground wire and fittings shall be installed as shown on the Plans, Standard Sheets, or as directed by the Engineer. The ground system shall be electrically connected to the trace wire.

4. METHOD OF MEASUREMENT:

- 4.01 The “ELECTRICAL PULL BOX” item will be measured as the actual number of each unit satisfactorily furnished and installed.

5. BASIS OF PAYMENT:

- 5.01 The unit price bid for the “ELECTRICAL PULL BOX” item shall include the cost of all equipment, materials, and labor necessary to satisfactorily complete the work.