

Special Specification 6034

Radar Vehicle Sensing Device Pole Assembly



1. DESCRIPTION

This Item shall govern for fabricating, furnishing, and erecting a pole assembly for use with the Radar Vehicle Sensing Device hardware.

2. MATERIALS

Provide new material that complies with the details shown on the plans, the requirements of this Item, and the pertinent requirements of the following Items:

- Item 416, "Drilled Shaft Foundations"
- Item 441, "Steel Structures"
- Item 442, "Metal for Structures"
- Item 445, "Galvanizing"
- Item 446, "Field Cleaning and Painting Steel"
- Item 449, "Anchor Bolts"
- Item 620, "Electrical Conductors"
- Item 6008, "ITS Field Equipment Cabinet"
- Special Specification, "Radar Vehicle Sensing Device (RVSD)"

Provide shop drawings of the complete assembly in accordance with the plans.

Hot-dip galvanize fabricated pole sections and associated parts in accordance with Item 445, "Galvanizing." Punch or drill holes in steel parts or members, when allowed, before galvanizing.

Paint poles, when shown on the plans, in accordance with Item 446, "Field Cleaning and Painting Steel."

3. CONSTRUCTION

Perform work in accordance with the details shown on the plans and the requirements of this Item.

Prevent scarring or marring of the poles, mast arms, and fixtures. Replace damaged components. Repair damaged galvanizing in accordance with Section 445.3 5., "Repairs." Repair damaged painted areas of a roadway illumination assembly in accordance with Item 446, "Field Cleaning and Painting Steel."

Stake, install, and align each roadway pole assembly as shown on the plans. The Department may shift an assembly's location, if necessary, to secure a more desirable location or to avoid conflict with utilities.

Fabricate and install roadway pole assembly components in accordance with the details, dimensions, and requirements shown on the plans. Do not use screw-in type foundations. Install anchor bolts and coat anchor bolt threads in accordance with Item 449, "Anchor Bolts." Erect structures after foundation concrete has attained its design strength as required on the plans and Item 421, "Hydraulic Cement Concrete." Tighten anchor bolts for poles with shoe bases in accordance with Item 449, "Anchor Bolts." Do not place grout between base plate and foundation.

4. MEASUREMENT

This Item will be measured as each pole assembly that is installed.

5. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "RVSD Pole Assembly," of the sizes specified. This price is full compensation for furnishing and installing the poles, anchor bolts, anchor plates, and equipment, labor, tools, and incidentals

New drilled shaft foundations will be paid for under Item 416, "Drilled Shaft Foundations." New concrete riprap placed around foundations will be paid for under Item 432, "Riprap." New conduit will be paid for under Item 618, "Conduit." New conductors, except the conductors internal to the pole, will be paid for under Item 620, "Electrical Conductors." New duct cable will be paid for under Item 622, "Duct Cable." New ground boxes will be paid for under Item 624, "Ground Boxes." New electrical services will be paid for under Item 628, "Electrical Services." RVSD cabinet to be paid for under item 6008, "ITS Field Equipment Cabinet". RVSD equipment to be paid for under special specification "Radar Vehicle Sensing Device (RVSD)."