

ITEM 680.77 25 - MODIFY TRAFFIC SIGNAL EQUIPMENT

1. DESCRIPTION:

1.01 This work shall consist of modifying existing traffic signal equipment in accordance with the plans, specifications, or directions of the Engineer.

2. MATERIALS:

2.01 Wood poles shall meet A.S.A., Wood Pole Specifications, Class 4 or larger, creosoted Douglas Fir or Southern Pine with a fiber stress of 7,400 psi. Creosote shall be in accordance with Section 708-30 of the Standard Specification.

Existing traffic signal pole shall be removed, salvaged, or disposed of as directed by the Engineer.

3. CONSTRUCTION DETAILS:

A. Replacement of Traffic Signal Pole

1. Where indicated in the plans, the existing aluminum traffic signal pole and foundation shall be removed and replaced with a wood pole. The contractor shall remove and store street light bracket arm, traffic and pedestrian signals and street signs attached to the pole. Care shall be exercised in removing and salvaging traffic signal and electrical equipment so that it will remain in its original form and existing condition wherever possible.
2. Following removal of pole footing, a wood pole shall be placed vertically in excavated hole to a minimum depth of 6 feet. The space around the pole shall be backfilled with selected earth free of rocks and other deleterious material placed and thoroughly compacted in 6 inch layers.
3. The contractor shall reinstall existing street light bracket arm, traffic and pedestrian signals and street signs on the wood pole. Street lighting and traffic signal systems shall be reactivated.

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4. The Contractor will be required to replace, at his expense, any traffic signal or street lighting equipment which is determined by the Engineer to have been damaged or destroyed by reason of the Contractor's operations.

B. Temporary Relocation of Traffic Signal Heads

The contractor shall be required to temporarily relocate traffic signal heads prior to implementation of construction phases in which shifted traffic results in existing signal head being located within a work zone. The signal heads shall be relocated along span wires, utilizing available slack in cables, so that they are located within the temporary travel lanes. Following completion of construction, signal heads shall be located back to their original positions.

C. Connecting Pedestrian Signal Conduit to Pullboxes and Wiring Pedestrian Signal Poles

Where indicated on the plans, the contractor shall connect proposed pedestrian signal conduits to existing traffic pullboxes. Cables shall be installed, and pedestrian signal poles shall be rewired.

4. METHOD OF MEASUREMENT:

4.01 The items will be measured for payment on a lump sum basis for the work completed in accordance with the Contract Documents and as directed by the Engineer.

5. BASIS OF PAYMENT:

5.01 The lump sum price bid shall include the cost of furnishing all labor, materials, tools, equipment, safety requirements as determined by U.S. Department of Labors Occupational Safety and Health Standards, and incidentals necessary to complete the work including excavation, backfill and restoration of surfaces.

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Monthly payments will be made in proportion to the amount of work done under each item as determined by the Engineer. Payment for pedestrian signal cable and conduit shall be included under their respective items.