

Special Specification 6121

High Mast Lighting



1. DESCRIPTION

Remove and relocate existing high mast lighting.

2. MATERIALS

Reuse existing pole and ring. Provide new materials that comply with the details shown on plans, the requirements of this Item, and the pertinent requirements of the following Items:

- Item 416, "Drilled Shaft Foundations"
- Item 432, "Riprap"
- Item 445, "Galvanizing"
- Item 449, "Anchor Bolts"
- Item 613, "High Mast Illumination Poles"
- Item 614, "High Mast Illumination Assemblies"
- Item 616, "Performance Testing of Lighting Systems"
- Item 618, "Conduit"
- Item 620, "Electrical Conductors"
- Item 622, "Duct Cable"
- Item 624, "Ground Boxes"
- Item 628, "Electrical Services"

3. CONSTRUCTION

Maintain safe construction and operating practices at all times. Obtain approval for the method of relocation prior to beginning work. Coordinate placement of anchor bolts in new foundation with bolt holes on high mast illumination pole base plate so that the reference line is parallel to the freeway centerline. Unless otherwise shown on the plans, remove abandoned concrete foundations, including steel, to 2 ft. below the finished grade. Cut off and remove steel protruding from the remaining concrete. Backfill with like material equal in composition and density to the surrounding area, and replace surfacing with like material to an equivalent condition.

Coat anchor bolt threads and tighten anchor bolts in accordance with Item 449, "Anchor Bolts."

Schedule work so that the pole will be out of service for a minimum amount of time. Carefully remove the high mast illumination pole from the existing foundation. Prevent scarring, marring, or other damage to the high mast pole or high mast illumination assembly. Place temporary slings on the pole to prevent slippage in the pole sections. Sufficiently tighten slings to prevent slippage from damaging winch cable, or secure the high mast ring to ring support member. Accept responsibility for damage caused to the high mast illumination pole and the high mast illumination assembly. Repair or replace damaged components at no additional cost to the Department. Repair damaged galvanizing in accordance with Section 445.3.5, "Repairs." Move high mast poles to locations shown on the plans or as directed. Construct new foundations in accordance with Section 613.3.4.1, "Foundations." Install relocated poles on new foundations in accordance with Section 613.3.4.3, "Pole Installation." After the high mast illumination pole is installed at the new location, check and orient the high mast illumination fixtures as directed by the Engineer.

Upon relocating the high mast illumination, ensure the complete system is in working condition. Final acceptance will not be made until the high mast illumination has operated satisfactorily for a period of 14 days in accordance with Item 616, "Performance Testing of Lighting Systems."

4. MEASUREMENT

This Item will be measured as each high mast illumination pole relocated.

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 "Relocate High Mast Lighting." This price is full compensation for salvaging, preparing and relocating the existing conduit or duct cable; removing, relocating, connecting, and testing high mast illumination assemblies; removing existing foundations; furnishing and installing new anchor bolts, lamps, connections, and new conductors internal to the pole and assembly; replacement of damaged components; disposal of unsalvageable material; 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 electrical 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." The Department will pay for electrical energy consumed by the lighting system.