

CAST IRON LAMP POST

I. Quantity

The base bid shall include the indicated number of Cast Iron Lamp Post as hereinafter specified at the locations shown on the drawings and as located in the field by the engineer.

II. Material

Lamp Post

The Cast Iron Lamp Post shall be integrally cast as one piece and be cast iron per ASTM A-48-83, Class 30. The lamp post shall be designed for wind loading of at least 100 miles per hour when used with the specified luminaire. An access door shall be provided in the base of the lamp post and secured with tamper proof, snake eye spanner, stainless steel machine screws. The post base shall fit a 15" bolt circle. A 3" tenon shall be cast on the top of the post.

The post shall be supplied complete with hot dipped galvanized ¾" diameter x 24" long, 3" hook anchor bolts, nuts, washers, shims and all necessary hardware to complete the installation.

The Cast Iron Lamp Post shall be equal in quality, design and performance to Holophane Catalog No. C12\20\C1-PP and Spring City Catalog No. Washington #12 Standard.

III. Finish Paint Process

A. Cleaning and Pretreatment

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, loose rust and other foreign material to ensure adequate adhesion. Remove all oil and grease from the surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (1-2 mils). Prime any bare iron the same day as it is cleaned or before flash rusting occurs.

Parts to be adequately dried so no moisture remains on or in the surface.

B. Primer and Paint Application

Apply Sherwin Williams B67R5 Recoatable Epoxy Primer (Red Oxide) and B67V5 Hardener per the manufacturer specifications. The primer and hardener shall be applied at a spreading rate of 4 – 5 mils DFT. These specifications must be followed unless the engineer has approved an equal product/process.

Apply two coats of Sherwin Williams Acrolon 218 HS, Safety Black, B65-600 Hi-gloss per manufacturer specifications. Before applying the second coat of Acrylic Polyurethane follow specifications in regards to drying. Each coat of polyurethane shall be applied at a spreading rate of 2-3 mils DFT. These specifications must be followed unless the engineer has approved an equal product/process.

IV. Packaging Requirements

The Cast Iron Lamp Post shall be wrapped with clear polyethylene construction sheeting of sufficient strength to protect the painted finish. Next bubble wrap shall be applied around the areas of the post that will normally be in direct contact with the ground or trailer bed during shipment and handling to further protect the paint finish in those places. The Cast Iron Lamp Post shall then be wrapped with 3 ply, 42# Kraft Paperboard, laminated and fluted longitudinally to form a ¾" thick sheet to provide protection from mechanical damage. Finally, the entire assembly shall be wrapped with 75 GA "stretch wrap" to protect the post finish and packing from moisture.

Manufacturer shall guarantee the paint finish in lieu of not meeting the packaging specifications.

V. Installation

The lamp post shall be placed on a concrete foundation with sufficient care to preserve the exterior of the pole and the surface of the foundation. The pole shall be plumb and tightened as shown on the drawings and as indicated in the field by the engineer.

Once installed, the contractor shall inspect each pole for damage, such as, scratching or chipping of paint. If damage is discovered the contractor shall be responsible for painting the areas that need attention. Refer to the above stated paint specifications (Section IIIB) for additional information.

VI. Quotation Required

The complete Cast Iron Lamp Post shall be quoted as a unit price in each of the appropriate places in this document.