

ITEM 031060

Item 0310601 - ORNAMENTAL ACCESSORY, 6' ORNAMENTAL BRACKET ARM

Item 0310602 - ORNAMENTAL ACCESSORY, SIDE BRACKET FOR LUMINAIRE

Item 0310603 - ORNAMENTAL ACCESSORY, BANNER ARMS

Item 0310604 - ORNAMENTAL ACCESSORY, PLANT HANGER BRACKET

Item 0310605 - ORNAMENTAL ACCESSORY, GROUND FAULT RECEPTACLE

DESCRIPTION

Work under these items shall consist of furnishing and installing ornamental street light accessories at the location and to the dimensions and details shown on the plans or as directed by the Engineer and in conformity with these specifications. The work shall include furnishing mounting and assembling all components, receptacle installation, wiring, and verifying the proper operation of the accessory installed.

REFERENCED ITEMS

None

REQUIRED SUBMITTALS

Material Certificate of Compliance:

Submit 5 copies of material certificate of compliance for pole accessories in accordance with the contract general requirements.

Shop Drawings:

Submit 5 copies of shop drawings for pole accessories in accordance with the contract general requirements.

MATERIALS

General: Accessories shall be designed in accordance with AASHTO Standard Specification for Structural Support of Highway Signs, Luminaires and Traffic Signs. Wind pressures for design purposes shall be determined in accordance with the above AASHTO Standard utilizing a 93 mph wind speed.

The bracket arms, banner arms, plant hangers and GFI box shall be finished with a three step process consisting of an acid etching industrial wash primer, a two part epoxy base primer and a two part aliphatic acrylic polyurethane finish coat. Finish system shall be Tnemec. Color shall be as shown on the drawings or as directed by

the engineer.

6' Ornamental Bracket Arm: The bracket arm shall be a seamless tube constructed from 6063-T6 aluminum alloy. The pole end of the arm shall be welded to an extruded aluminum plate designed to fit the curvature of the pole and provide a flat surface to accept the arm tube. The plate shall be designed to be bolted to the shaft with four 1/2-13 x 1" stainless steel bolts. The plate shall be mounted on the pole to such that the grommet hole for the electrical cable is aligned with the arm shaft. The bracket arm shall have a 3" x 6" tenon for mounting of the luminaire. The bracket arm shall have an upswept arm to provide a 30 feet mounting height for the luminaire. The arm shall extend horizontally from the pole 6 feet. The arm shall have a decorative scroll attached to the arm and the pole.

Side Bracket Arm for Luminaire: The luminaire shall be mounted on an aluminum bracket arm mounted 14 feet above the pole base opposite the street luminaire. The bracket arm shall be constructed from 6063-T6 aluminum, and shall extend 18" from the pole. The bracket shall be constructed using aluminum tube and shall have a 3" (dia.) x 3" high tenon for mounting of the walkway luminaire. The bracket shall be secured to the pole with stainless steel bolts and Riv-nut fasteners, and shall align with the grommet hole for the luminaire wiring.

Banner Arms: The banner arms shall be constructed from 6063-T6 aluminum. The banner arms shall extend 18" from the pole. The banner arms shall be secured to the pole with metal flanges with set screws. The ends of the arms shall be equipped with a ball type finial. Banner arms shall be supplied in sets of 2 which will be paid for as 1 unit each. The banner arms shall meet the style as shown on the details.

Plant Hanger Bracket: The plant hanger bracket arm shall be constructed from 6063-T6 aluminum alloy. The pole end of the arm shall be welded to an extruded aluminum plate designed to fit the curvature of the pole and provide a flat surface to accept the arm. The plate shall be designed to be bolted to the shaft with four 3/8-16 x 1" stainless steel bolts. The arm shall extend horizontally from the pole 18". The arm shall have a decorative scroll attached to the arm and the mounting plate. The hanger shall be designed support a load of 33 lb.

Ground Fault Receptacle: The pole shall be equipped with a cast aluminum box and "in-use" receptacle cover for installation of a GFI duplex receptacle. The receptacle shall be mounted 15 feet above the base on the side opposite the street light bracket arm.

Manufacturer: Accessories shall be Sentry Electric Corporation products as follows, or approved equal:

6' Bracket Arm: AU6-SCR
 Side Bracket for Luminaire: SAL-PH
 Banner Arms: 18" BANNER ARM 36 INCHES APART.
 Plant Hanger Bracket: Per manufacturer

CONSTRUCTION METHODS

Construction methods for this work shall be in accordance with the manufacturer's recommendations. The contractor shall be responsible for coordinating all necessary prerequisite work with Northeast Utilities.

METHOD OF MEASUREMENT

Ornamental Street Light Accessories shall be measured for payment by the number of each unit installed, wired, operational and accepted.

BASIS OF PAYMENT

The work will be paid for at the contract unit price each for "ORNAMENTAL ACCESSORIES (TYPE)" installed, which price shall include all materials, labor, equipment, tools and incidental expenses thereto.

<u>PAY ITEM</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
0310601	Ornamental Accessory, 6' Ornamental Bracket Arm	EA
0310602	Ornamental Accessory, Side Bracket for Luminaire	EA
0310603	Ornamental Accessory, Banner Arms	EA
0310604	Ornamental Accessory, Plant Hanger Bracket	EA
0310605	Ornamental Accessory, Ground Fault Receptacle	EA