

ITEM 031050

Item 0310501 - ORNAMENTAL LUMINAIRE BATTERY PARK STYLE

Item 0310502 - ORNAMENTAL LUMINAIRE HARTFORD STYLE

Item 0310503 - ORNAMENTAL LUMINAIRE PARK STYLE

Item 0310504 - ORNAMENTAL LUMINAIRE ROADWAY STYLE

DESCRIPTION

Work under these items shall consist of furnishing and installing ornamental luminaires on ornamental street light poles 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 luminaire mounting, wiring, and connection of power supply and ground and verifying the proper operation of the luminaire to the satisfaction of the engineer.

REFERENCED ITEMS

None

REQUIRED SUBMITTALS

Material Certificate of Compliance:

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

Shop Drawings:

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

MATERIALS

General: The luminaire 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 luminaire shall meet the design requirements and style as shown on the details.

The luminaire shall be wired using No. 10 AWG stranded copper conductors with 600V, 167 degree F, type THHN/THWN insulation, or as required by the manufacturer. The luminaire shall be connected to the wiring provided within the

pole.

The luminaire 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.

Ornamental Luminaire Battery Park Style: The Battery Park style luminaire shall be a decorative luminaire utilizing a 150 watt high pressure sodium lamp. The luminaire shall be Sentry Electric Corp. No. SBP-150HPS-120VMT-III, or approved equal.

Ornamental Luminaire Hartford Style: The Hartford style luminaire shall be a decorative luminaire utilizing a 150 watt high pressure sodium lamp. The luminaire shall be Sentry Electric Corp. No. SCT-150HPS-120VMT-III, or approved equal.

Ornamental Luminaire Park Style: The Park style luminaire shall be a decorative luminaire utilizing a 150 watt high pressure sodium lamp. The luminaire shall be Sentry Electric Corp. No. SPSN-150HPS-120VMT-III, or approved equal.

Ornamental Luminaire Roadway Style: The street light luminaire shall be a decorative cut-off luminaire utilizing a 250 watt high pressure sodium lamp. The luminaire shall be Sentry Electric Corp. No. SGCPH-250HPS-120VMT-III, or approved equal.

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. This shall include, but not be limited to de-energizing existing light fixtures, energizing new light fixtures, coordinating and verifying new conduit installations. Northeast Utilities shall be responsible for pulling new wiring from energy source to first pole location and energizing new lighting system. The contractor shall be responsible for installing all underground conduit in accordance with CL&P requirements.

METHOD OF MEASUREMENT

Ornamental luminaires shall be measured for payment by the actual 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 LUMINAIRE (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>
0310501	Ornamental Luminaire Battery Park Style	EA
0310502	Ornamental Luminaire Hartford Style	EA
0310503	Ornamental Luminaire Park Style	EA
0310504	Ornamental Luminaire Roadway Style	EA