



**SPECIAL PROVISIONS
FOR
LIGHTING**

**Scott County
IM-NHS-074-1(199)5--03-82**

**Effective Date
April 25, 2017**

THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

150168.01 DESCRIPTION.

Furnish all work, apparatus, and materials according to the applicable portions of Section 2523 of the Standard Specifications, unless as modified herein.

A. Definitions.

- Pole Supply Contractor: Supplier of the roadway and pedestrian lighting poles.
- Luminaire Supply Contractor: Supplier of roadway, underpass, and pedestrian LED luminaires.
- Aesthetic Luminaire Supply Contractor: Supplier of aesthetic LED luminaires.

B. Work Under Separate Contract.

- Poles will be furnished and delivered by others, of the type specified.
- Luminaires will be furnished and delivered by others, of the type specified.
- Aesthetic Luminaires will be furnished and delivered by others, of the type specified.

150168.02 MATERIALS.

A. Light Poles.

1. Delivery, Storage, and Handling.

The Contractor shall supply the Engineer with a required delivery schedule for the lighting poles within 6 weeks of contract award. The Contractor shall supply the delivery schedule to the pole supply contractor upon approval. It shall be the responsibility of the Contractor to coordinate delivery with the pole supply contractor.

- a. Delivery should be coordinated as to minimize handling and on-site storage requirements. If required, storage at the project site shall be provided by the Contractor at no additional cost to the contract.
- b. A minimum of ten light poles per delivery is required.

- c. The light poles shall be stored in such a manner as to prevent staining, discoloration, or other damage.

2. Inspection and Acceptance

The Contractor shall examine and document the condition of the lighting poles, in the presence of the Engineer, before accepting delivery. The Contractor shall be held responsible for the condition of the light pole as well as any repairs or replacements required due to any change in condition caused by site handling, storage, and installation. All repairs are subject to approval by the Engineer. The Contractor shall:

- a. Remove and replace damaged light poles if repairs do not comply with requirements.
- b. Clean exposed surfaces of the light poles after installation to remove dirt, stains, and other markings.
- c. Do not use cleaning materials or processes that could change the appearance of exposed finishes.

B. Luminaires.

1. Delivery, Storage, and Handling.

The Contractor shall supply the Engineer with a required delivery schedule for the roadway luminaires within 6 weeks of contract award. The Contractor shall supply the delivery schedule to the luminaire supply contractor and the aesthetic luminaire supply contractor upon approval. It shall be the responsibility of the Contractor to coordinate delivery with the luminaire supply contractors.

- a. Delivery should be coordinated as to minimize handling and on-site storage requirements. If required, storage at the project site shall be provided by the Contractor at no additional cost to the contract.
- b. A minimum of 20 luminaires per delivery is required.
- c. The luminaires shall be stored in such a manner as to prevent damage.
- d. Obtain and follow the manufacturer's recommendations for the handling and installation of the luminaires.

2. Inspection and Acceptance.

The Contractor shall examine and document the condition of the luminaires, in the presence of the Engineer, before accepting delivery. The Contractor shall be held responsible for fully functional luminaires as well as any repairs or replacements required due to any change in condition caused by site handling, storage, and installation. All repairs are subject to approval by the Engineer. The Contractor shall:

- a. Remove and replace damaged luminaires if repairs do not comply with requirements.
- b. Clean exposed surfaces of the luminaires after installation to remove dirt, stains, and other markings.
- c. Do not use cleaning materials or processes that could change the appearance of exposed finishes.

150168.03 CONSTRUCTION.

A. Light Poles.

- 1. Each light pole shall be assembled and installed upon its foundation in accordance with the manufacturer's recommendations. Prior to installation, the pole and all its components shall be inspected by the contractor, in the presence of the Engineer. Any parts found to be defective shall be repaired or replaced.
- 2. The pole shall be set plumb on the foundation and fastened to the anchor bolts with self-locking nuts or double nuts (two per anchor bolt) and washers. Flat washers shall be installed below and above the isolation washer. A 1/2 inch minimum isolation pad and a 1/2 inch minimum leveling pad shall be installed between the light pole base plate and the bottom nut (leveling

nut) with a steel washer between the leveling nut and the leveling plate. The nuts shall be tightened in compliance with torque specifications recommended by the manufacturer of the isolation pad. See plans for attachment detail.

3. The space between the finished top of the foundation and the bottom of the base plate of the pole shall be enclosed with an expanded metal screen made of stainless steel. The mesh of the screen shall be 0.250 inch or less as approved by the Engineer. The screen shall be held in place with bands made of stainless steel. At least two bands shall be installed around the pole base plate. The bands shall be held tight by a ratchet-type device. Grouting shall not be used to enclose the above described space.

B. Luminaires.

1. Install all components and accessories furnished with each luminaire including all electrical components, and wiring.
2. Each luminaire shall be mounted as indicated and as required for permanent lighting installation.
3. Unless otherwise indicated, each luminaire shall be set in a plane parallel to the roadway.
4. The installation shall be complete with fusing and connection to the applicable lighting feeder circuits.

150168.04 METHOD OF MEASUREMENT.

A. Light Poles.

Light Pole, Install Only will be measured by the unit each, complete. All related apparatus shall be included, except that the anchor bolts, anchor plates, self-locking nuts, nuts, and steel washers shall be included with Concrete Barrier Rail.

B. Luminaires.

Luminaire, Install Only will be measured by the unit each, complete. All related apparatus shall be included.

C. Junction Boxes.

Handholes and Junction Boxes will be measured by the unit each, complete. All related apparatus shall be included.

150168.05 BASIS OF PAYMENT.

A. Light Poles.

This work shall be paid for at the contract unit price each for Light Pole, Install Only, of the type, mounting height and luminaire mounting positions indicated, which shall be payment in full for installing the light pole complete as described in these specifications.

B. Luminaires.

This work will be paid for at the contract unit price per each for Luminaire, Install Only, of the type specified in the plans, which price shall include all material, hardware, storage, and labor required for complete installation of the Luminaires, as shown on the contract plans and as specified herein.

C. Junction Boxes.

This work will be paid for at the contract unit price per each for Handholes and Junction Boxes, which price shall include all material, hardware, storage, and labor required for complete installation of the junction box, as shown on the contract plans and as specified herein.