

SECTION 00970 - HIGHWAY ILLUMINATION

(Follow all instructions and make all edits with "Track Changes" turned on. If there are no instructions [purple text] above a subsection, paragraph, sentence, or bullet, then include it in the Project. Delete all purple text before preparing the final document. All other modifications to this Section will require ODOT Technical Resource and State Specifications Engineer approval.)

Comply with Section 00970 of the Standard Specifications modified as follows:

(Use the following lead-in paragraph and subsection .15 when an LED luminaire is required on a traffic signal support. Suggested mounting heights are 40 feet, but illumination designer may use a combination of different mounting height and different wattage on luminaires to achieve project site specific light level requirements. Substitute other approved product as applicable.)

Add the following subsection:

00970.15 LED Luminaires on Traffic Signal Supports, at intersections or at crosswalks - Furnish one of the following approved models or an approved equal:

- CREE LED - Guideway Series,
GWY-M-A-17L-30K7 (or 40K7) 3M-UL-GY w/7 pin receptacle
- Current LED - Evolve, ERL2-0-16-C5-30 (or 40)-D-Gray
- AEL Acuity AutoConnect - ACM-P608-Mvolt-ZT-R3-3K (or 4K)-GY-P7-SH

When higher light output is desired, higher wattage luminaires up to 160 watt within the same brand/model listed above, may be furnished.

When furnishing an LED luminaire model that is not specified as approved, the luminaire shall meet the requirements of 02926.54.

(Use the following lead-in paragraph and subsection .16 when an LED luminaire is required on a freeway interchange lighting system. Suggested mounting heights are 40 feet, but illumination designer may use a combination of different mounting height and different wattage on luminaires to achieve project site specific light level requirements. Substitute other approved product as applicable)

Replace "(Voltage Information)" with the voltage information. Check with the Illumination Designer.)

Add the following subsection:

00970.16 LED Luminaires on Freeway Interchange Lighting Systems - Furnish one of the following models or an approved equal:

AEL Acuity AutoConnect - ACL-P127-(Voltage Information)-ZT-R3-3K (or 4K)-GY-P7-SH

- Current LED - Evolve, ERL2-(Voltage Information)-25-C5-30 (or 40)-D-GRAY
- CREE LED - Guideway Series,
GWY-L-A-25L-30K7 (or 40K7) 3M -(Voltage Information)-GY w/7 pin receptacle

When higher light output is desired, higher wattage luminaires up to 250 watt within the same brand/model listed above, may be furnished.

When furnishing an LED luminaire model that is not specified as approved, the luminaire shall meet the requirements of 02926.54.

00970.47 HDPE Conduit and Connectors – Replace the paragraph that begins "High Density Polyethylene (HDPE) conduit may be used..." with the following paragraph:

High Density Polyethylene (HDPE) conduit may be used for horizontal directional drilling (HDD) applications. Provide HDPE conduit that is gray in color. Join HDPE conduit sections by mechanical fittings that have barbed threads on both ends or by a swedge coupler with two-part conduit adhesive.

(Use the following .90 when refurbishing and reinstalling existing illumination systems.)

00970.90 Payment - Replace the paragraph that begins "Item (e) includes..." with the following paragraph:

Item (e) includes all refurbishing, reinstalling, and other Work as specified or shown.