

## **X0327698 LED INTERNALLY ILLUMINATED STREET NAME SIGN (LCDOT)**

Effective: October 1, 2016

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LC891.01

**Description:** This work shall consist of furnishing a street name sign which is internally illuminated with light emitting diodes, and installing the sign on a traffic signal mast arm or span wire.

**Materials:** The LED Street Name Sign shall be one of the following approved models:

- Southern Manufacturing Clean Profile
- Temple Edge-Lit Razor
- Traffic Signs, Inc. ULTRASlim

The Contractor shall furnish the required mounting hardware.

3M Diamond Grade (ASTM Type IX) retroreflective sign sheeting shall be used for all sign legend and background surfaces.

All exterior metal surfaces of the sign housing shall be powder coated black by the supplier/manufacturer.

The electrical sign components shall be UL Listed and the light emitting diodes shall have a documented life span of 60,000 hours to 70% of the initial brightness. The sign faces shall display a minimum of 400 Lux when measured at any point and the lighting shall be spread evenly across each face of the sign.

The manufacturer shall warranty the entire sign, including all components, for a period of at least five years from the date of installation. The Contractor shall provide a copy of the warranty to the Traffic Engineer upon request.

**Installation:** The LED Street Name Sign shall be installed as shown on the plans, suspended from the mast arm unless a different mounting is called for, using a mounting bracket compatible with the sign model and manufacture.

All holes drilled into signal poles, mast arms, or posts shall require rubber grommets to prevent the chafing of wires.

The signs shall not be energized when traffic signals are powered by an alternate energy source such as a generator or uninterruptable power source (UPS).

All signs at the intersection shall be activated by a common photocell installed in the controller cabinet.

**General:** The sign shall be mounted on the mast arm three feet to the right of the furthest right signal head, as viewed by the approaching traffic.

The Manufacturer/Vendor shall supply shop drawings of the fixtures, sign, sign message and mounting hardware for approval. All hardware used to install the sign shall be according to the manufacturer's recommendations.

**Basis of Payment:** This work will be paid for at the contract unit price per each for LED INTERNALLY ILLUMINATED STREET NAME SIGN, of the size specified. The unit price shall include *all associated equipment; hardware; wiring; connections; materials and labor required to furnish and install the sign, and place it in operation to the satisfaction of the Traffic Engineer.* The #14 2/C cable from the signal cabinet to the sign shall be paid for separately. The photocell in the signal cabinet shall be paid for in FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL or MODIFY EXISTING CONTROLLER CABINET.