



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

January 18, 2013

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section **715**
Proposed Specification: **7150301 Highway Lighting System.**

Dear Ms. Gourdine:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

These changes were proposed by Traffic Operations, Product Evaluation, and Specifications Offices as part of an ongoing effort to consolidate the Minimum Specifications for Traffic Control Signals and Devices (MSTCSD) and Standard Specifications for Road and Bridge Construction. Specifically, the changes to Section 715 were made to move the conduit requirements to Section 630. The originator is Chester Henson of the State Roadway Design Office.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965TT or trey.tillander@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at 414-4140.

Sincerely,

V. Y. "Trey" Tillander, III, P.E.
State Specifications Engineer

TT/dt

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

HIGHWAY LIGHTING SYSTEM.(REV ~~1121-2148~~-12)

SUBARTICLE 715-3.1 (Page 860) is deleted and the following substituted:

715-3.1 General: Meet the materials and equipment requirements of Section 992. ~~Provide products of established, reputable manufacturers of electrical equipment, meeting NEC requirements and the approval of the Engineer.~~

ARTICLE 715-9 (Pages 861 – 862) is deleted and the following substituted:

715-9 Conduit and Ducts.

~~Install Conduit shall be installed at the locations shown in the Plans and in accordance with requirements of Section 630.~~

~~715-9.1 General:~~ Install conduit and ducts at the locations shown in the Plans, or as required for a satisfactory installation.

~~715-9.2 Conduit in Structures:~~ Use conduit of either rigid steel or PVC for embedding in structural concrete. Install an expansion fitting at every structural expansion joint through which the conduit passes. Provide exposed runs of conduit with adequate expansion joints as shown in the Plans or approved by the Engineer. Obtain the Engineer's approval of the design of the expansion joints.

~~715-9.3 Pre-wired Direct-burial Duct:~~ Where specified in the Plans or directed by the Engineer, install a pre-wired, flexible polyethylene plastic pipe containing the conductors for the lighting circuits. Provide conductors and polyethylene pipe as described in the Plans.

ARTICLE 715-16 (Pages 863 – 864) is deleted and the following substituted:

715-16 Method of Measurement.

The quantities to be paid for will be as follows, completed and accepted:

(a) Conduit: ~~The Contract unit price per foot of conduit, furnished and installed, will include furnishing all connecting hardware, trenching and backfill as indicated in the Plans and the Design Standards, and the cost of restoring cut pavement, sidewalks, sod, and etc., to its original condition. The length will be based on the horizontal path of the installed conduit as measured in a straight line between the centers of pull boxes, cabinets, poles, etc. No allowance will be made for sweeps or vertical distances above or below the ground or the bridge deck.~~ *Payment will be made in accordance with Section 630.*

(b) Luminaire and Truss Arm: The Contract unit price will include the truss arm, luminaire with lamp, and all necessary mounting hardware as indicated in the Plans and the Design Standards.

(c) ~~Load Center~~ *Service Point*: The Contract unit price will include the service pole, insulators, weatherheads, transformers, enclosures, panel boards, breakers, safety switches, H.O.A. switches, lightning protectors, fuses, photo electric assembly, meter base, and all external and internal conduit and conductors for the service as indicated in the Plans and the Design Standards.

(d) Light Pole Foundation: The Contract unit price will include the foundation and anchor bolts with lock nuts and washers as indicated in the Plans and the Design Standards.

(e) Luminaire: The Contract unit price will include the luminaire with lamp and necessary mounting hardware as indicated in the Plans and the Design Standards.

(f) Pull Box: ~~The Contract unit price will include the pull box and cover as indicated in the Plans and the Design Standards~~ *Payment will be made in accordance with Section 635.*

(g) High Mast Parts: The Contract unit price will include the part specified with all mounting hardware as indicated in the Contract Documents and the Design Standards.

(h) Frangible Base for Light Pole: The Contract unit price will include the frangible base, attachments, bolts, and washers as indicated in the Plans and the Design Standards.

(i) Photo Electric Control Assembly: The Contract unit price will include the photo electric control, transformers, conduit, and conductors as indicated in the Plans and the Design Standards.

(j) Pre-Fab Pilaster: The Contract unit price will include the pilaster and all mounting hardware as indicated in the Plans.

(k) High Mast Lighting Pole Complete: The Contract unit price will include the pole, luminaires with lamps, lowering system, breakers and anchor bolts with lock nuts and washers, and foundation as indicated in the Plans and the Design Standards.

(l) Conductor: The length, in feet, as indicated in the Plans and the Design Standards.

(m) Lighting Pole Complete: The Contract unit price will include the pole, internal vibration damping device, truss arm, luminaire with lamp, anchor bolts with lock nuts and washers, frangible base and foundation.

(n) Pole Cable Distribution System: The Contract Unit price will include the surge protector, fuse holders with fuses, waterproof connectors and the waterproof wiring connection to the luminaries.

HIGHWAY LIGHTING SYSTEM.**(REV 1-8-12)**

SUBARTICLE 715-3.1 (Page860) is deleted and the following substituted:

715-3.1 General: Meet the materials and equipment requirements of Section 992.

ARTICLE 715-9 (Pages 861 – 862) is deleted and the following substituted:

715-9 Conduit.

Install conduit at the locations shown in the Plans and in accordance with Section 630.

ARTICLE 715-16 (Pages 863 – 864) is deleted and the following substituted:

715-16 Method of Measurement.

The quantities to be paid for will be as follows, completed and accepted:

- (a) Conduit: Payment will be made in accordance with Section 630.
- (b) Luminaire and Truss Arm: The Contract unit price will include the truss arm, luminaire with lamp, and all necessary mounting hardware as indicated in the Plans and the Design Standards.
- (c) Service Point: The Contract unit price will include the service pole, insulators, weatherheads, transformers, enclosures, panel boards, breakers, safety switches, H.O.A. switches, lightning protectors, fuses, photo electric assembly, meter base, and all external and internal conduit and conductors for the service as indicated in the Plans and the Design Standards.
- (d) Light Pole Foundation: The Contract unit price will include the foundation and anchor bolts with lock nuts and washers as indicated in the Plans and the Design Standards.
- (e) Luminaire: The Contract unit price will include the luminaire with lamp and necessary mounting hardware as indicated in the Plans and the Design Standards.
- (f) Pull Box: Payment will be made in accordance with Section 635.
- (g) High Mast Parts: The Contract unit price will include the part specified with all mounting hardware as indicated in the Contract Documents and the Design Standards.
- (h) Frangible Base for Light Pole: The Contract unit price will include the frangible base, attachments, bolts, and washers as indicated in the Plans and the Design Standards.
- (i) Photo Electric Control Assembly: The Contract unit price will include the photo electric control, transformers, conduit, and conductors as indicated in the Plans and the Design Standards.

(j) Pre-Fab Pilaster: The Contract unit price will include the pilaster and all mounting hardware as indicated in the Plans.

(k) High Mast Lighting Pole Complete: The Contract unit price will include the pole, luminaires with lamps, lowering system, breakers and anchor bolts with lock nuts and washers, and foundation as indicated in the Plans and the Design Standards.

(l) Conductor: The length, in feet, as indicated in the Plans and the Design Standards.

(m) Lighting Pole Complete: The Contract unit price will include the pole, internal vibration damping device, truss arm, luminaire with lamp, anchor bolts with lock nuts and washers, frangible base and foundation.

(n) Pole Cable Distribution System: The Contract Unit price will include the surge protector, fuse holders with fuses, waterproof connectors and the waterproof wiring connection to the luminaries.