

ORIGINATION FORM

Specification Section or Article: 715-10

Subject:

Subarticle 715-10.2, Highway Lighting System, Erecting Light Poles, Adjusting Anchor Bolts

Subarticle 715-10.6, Highway Lighting System, Erecting Light Poles, Vermin Screen Installation

Origination date: 6/9/08

Originator: Steven Plotkin

Phone: (904) 360-5501

Problem statement:

Subarticle 715-10.2. This *article specification* currently provides no guidance for how to install the nuts on light pole anchor bolts and there have been repeated problems, as reported by FDOT maintenance, with nuts loosening.

Article (715-10.6 new) This *article specification* currently does not provide guidance for how to protect the gap between the light pole base plate and concrete foundation and according to FDOT Maintenance, current methods consistently fail.

Proposed solution:

Subarticle (715-10.2). Provide guidance for how to install the nuts on light pole anchor bolts by referring to *Section specification* 649 which has detailed instructions for how to do this.

Article (715-10.6 new). Provide a new *subarticle, 715-10.6, specification* that requires the installation of vermin-screens that will keep pests from nesting *and debris from accumulating* in pole bases by referring to *Section specification* 649 which has detailed instructions for how to do this.

Information source: Rafiq Darji, Andre Pavlov, Charles Harvey, Jeff Pouliotte

Recommended Usage Note: Use on all projects with light poles

Estimated fiscal impact, if implemented: Implementation of these revisions will save construction costs for the Department.

Implementation of these changes, if and when approved, will begin with the Jan. 2009 letting



Florida Department of Transportation

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STEPHANIE KOPELOUSOS
SECRETARY

MEMORANDUM

DATE: October 7, 2008
TO: Specification Review Distribution List
FROM: Rudy Powell, Jr., P.E., State Specifications Engineer
SUBJECT: Proposed Specification **7151000, Erecting Light Poles**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

These changes were proposed by Steve Plotkin to require that nuts on anchor bolts be installed in accordance with 649-5, and that screens be installed in accordance with 649-6 to keep pests and debris away from pole bases.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at ST986RP or rudy.powell@dot.state.fl.us. Comments received after November 7, 2008 may not be considered. Your input is encouraged.

RP/dr

Attachment

ERECTING LIGHT POLES.

(REV 9-19-08)

ARTICLE 715-10 (of the Supplemental Specifications) is deleted and the following substituted:

715-10 Erecting Light Poles.

715-10.1 General: Install the light poles at the locations and in accordance with the details shown in the plans. Unless otherwise specifically approved by the Engineer, fasten bracket (truss) arms to the pole prior to erection. Do not field weld on any part of the pole assembly. Plumb the poles after erection and use metal shims or leveling nuts if necessary to obtain precise alignment. Use a thin cement grout where necessary to eliminate unevenness or irregularities in the top of the base.

715-10.2 Adjusting *and Installing* Anchor Bolts: Where poles are to be placed on existing foundations or bases with anchor bolts in place, furnish poles with a base which fits the anchor bolt spacing. Include the cost of any necessary extension of existing anchor bolts in the price bid for the lighting system. *Install nuts on anchor bolts in accordance with 649-5.*

715-10.3 Installation of Luminaire: Install the luminaire on the truss arm in accordance with the manufacturer's instructions, and place it so that the light pattern is evenly distributed along the roadway.

715-10.4 Electrical Connections: Make primary ballast connections in accordance with manufacturer's instructions. Install sufficient cable to allow all connections to be made outside the light pole base. Connect the ground conductor to the ground stud provided.

715-10.5 Identification Plates: If required by the Contract Documents, stamp the identification plate on the pole with an identifying number or legend. Number the poles consecutively, beginning with number 1. Stamp each light pole number with 3/4 inch figures and stamp each circuit number with 1/2 inch figures.

715-10.6 Screen Installation: Install a screen in accordance with 649-6.