

**SUMMARY OF CHANGES  
SUPPLEMENTAL SPECIFICATIONS FOR ROADWAY LIGHTING**

**MARCH 2005 TO APRIL 2009**

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1. Updated purpose to include current Florida Department of Transportation (FDOT) Design Standards, Standard Specifications for Road and Bridge Construction, Manual on Uniform Traffic Control Devices (MUTCD), and National Electric Safety Code (NESC).
2. Added:
  - All light pole assemblies and the electrical service pole shall be leveled to the satisfaction of the Lighting District inspector.
  - The Charlotte County Lighting District inspector assigned to the project shall have the authority to make final determinations on whether workmanship, materials, and/or final product(s) meet the specifications contained herein.
  - Charlotte County reserves the right to add to or delete from the overall quantity of pull boxes from what is shown on the plans. If the quantity of materials is increased, the contractor shall be compensated according to the per unit price of this change.
  - All lighting systems shall utilize 480 volt, single phase. The voltage is distributed with one current-carrying conductor, one grounded conductor, and one grounding conductor.
  - Each light pole shall have a pull box placed directly in front of or behind the light pole foundation. Only one conduit should enter a light pole base.
  - If the contractor chooses to buy all the components which make up the load center individually and assemble them on site, it is recommended that Charlotte County perform the assembly work. Charlotte County will assemble the supplied materials, wire, and test the back panel, and the contractor will install it into the cabinet.
  - Charlotte County reserves the right to redirect the termination point(s) of any or all conduit(s) from what is shown on the plans. If the quantity of materials is increased, the contractor shall be compensated according to the per unit price of this change.

- Pull boxes placed in front of the load center and on the opposite side of the service point road crossing shall be larger than the standard lighting pull box. The box to be used at the load center and load center crossing shall be a Quazite part # PG173OBA12 (box) and # PG173OHA\_ \_ (lid). The last two digits left blank are for the lid logo and shall be filled in by the contractor for the specific lid logo
- The pull boxes shall have the FDOT APL number embossed in the cover, and the interior of the box shall be stenciled with the APL number. All pull boxes shall have cover logos identifying their specific purpose. The lid logo shall read "Street Lighting."

#### SERVICE POINT DETAIL:

- A photograph of the service point detail is provided within the specifications section. The detail depicts how the components within the cabinet should be laid out. The electrical service conductors shall be #2 AWG, with continuous black and white THHN/THWN insulation. The minimum size wire connecting the main breaker to the contactor and the contactor to the secondary breaker(s) shall be #6 AWG stranded, THHN/THWN wire. The minimum size of any control wire shall be #14 AWG stranded, THHN/THWN wire.
- A 2" hole, covered with Plexiglas, shall be installed in the lower right corner of the load center cabinet.
- Modified part numbers for contactor, step-down transformer, pole lightning arrester, load center lightning arrester, and lighting fixtures.
- Changed rating on fuse used at all light poles.
- Specified wire insulation type.
- Conduit size increased from 1¼" to 2".