

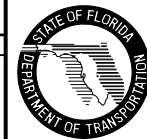
**ROADWAY ALUMINUM LIGHTING POLE NOTES**

- 1) Designed in accordance with FDOT Structures Manual (current edition).
- 2) All tables were developed assuming the following Luminaire properties: Effective Projected Area of 1.55 ft (includes wind drag coefficient) and 75 pounds (max.)
- 3) Perform all welding in accordance with the American Welding Society Structural Welding Code Aluminum) ANSI/AWS D1.2 (current edition).
- 4) See Standard Index No. 17500 for grounding and wiring details.
- 5) Foundation Materials:
  - a. Reinforcing Steel: ASTM A615 Grade 60.
  - b. Concrete: Class I (Special).
  - c. Anchor Bolts: ASTM F1554 Grade 55 with ASTM A563 Grade DH nuts and ASTM F436 Type 1 washers (all galvanized in accordance with ASTM F2329-05.)
- 6) Light Pole Specifications:
  - a. Poles: ASTM B221, Alloy 6063-T6.
  - b. Arm Tube Extrusions: ASTM B221 - Alloy 6063-T6.
  - c. Finish: For pole and arms; 50 grit satin rubbed finish.
  - d. Pole Connection Extrusions, Bars and Plates: ASTM B221 - Alloy 6063-T6.
  - e. Shoe Base Casting: ASTM B26 - Alloy 356-T6 or ASTM B108 - Alloy 356-T6.
  - f. Aluminum Caps and Covers: ASTM B-26(319-F).
  - g. Frangible/Breakaway Transformer Base Casting: ASTM B26 - Alloy 356-T6 or ASTM B108 - Alloy 356-T6.
  - h. Weld Metal: ER4043.
  - i. Shoe Base Connection Bolts: ASTM A325 Type 1 with ASTM A563 Grade DH nuts and ASTM F436 Type 1 washers (all galvanized in accordance with ASTM F2329).
  - j. Stainless Steel Fasteners and Hardware: AISI Grade 304.
  - k. Aluminum alloy 6063: T4 condition and heat treated in accordance with ASTM B597 to T6.
- 7) Pole Notes:
  - a. Tapered as required to provide a top outside diameter (D.D.) of 6" with a base D.D. of 10". Portions of the shaft near the base shoe and at the arm connections may be held constant at 10" and 6" respectively to simplify fabrication.
  - b. Transverse welds are allowed only at the base.
  - c. Poles constructed out of two or more sections with overlapping splices are not permitted.
  - d. Equip poles with a damping device if the pole location is within 5 miles of the coastline.
- 8) Furnish each pole with a 2"x4" (max) aluminum identification tag. Submit details for approval. Secure to Transformer Base with 0.125" stainless steel rivets or screws. Locate Identification Tag on the inside of base and visible from the door opening. Include the following information: Financial Project ID, Pole Design Designation (ie. Pole Pay Item number), Manufacturer's Name & Certification number, Pay Item number.
- 9) Manufacturers seeking approval of a Standard Roadway Aluminum Lighting Pole assembly for inclusion on the Qualified Products List must submit a QPL Product Evaluation Application along with design documentation and drawings showing the product meets all specified requirements of this Index.
  - a. For Clamp and Frangible Transformer Base Design, provide design calculation and/or test results indicating that the components are capable of providing the required capacity. Certify that the frangible Transformer Base conforms to the current FHWA required AASHTO Frangibility Requirements, tested under NCHRP Report 350 Guideline.
  - b. For Alternate foundations: Include design calculations and drawings showing that the product meets the requirements of this index, FDOT Structures Manual and Specification 715.

**NOTE:**  
STANDARD ROADWAY ALUMINUM LIGHTING NOT TO BE USED ON BRIDGES OR WALLS.

ELEVATION AND NOTES

REVISIONS				DATE		DESCRIPTION	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		
07/01/08	DYW	Modified QPL Criteria.					



2008 Interim Design Standard

**STANDARD ROADWAY ALUMINUM LIGHTING**

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