



## *Florida Department of Transportation*

**RICK SCOTT**  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

**JIM BOXOLD**  
SECRETARY

December 23, 2015

Khoa Nguyen  
Director, Office of Technical Services  
Federal Highway Administration  
3500 Financial Plaza, Suite 400  
Tallahassee, Florida 32312

Re: State Specifications Office  
Section **646**  
Proposed Specification: **6460202 Aluminum Poles, Pedestals, and Posts.**

Dear Mr. Nguyen:

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

The changes are proposed by Amy Tootle of the State Construction Office to require all construction-related documentation to be submitted by electronic means for consistency with the State Construction Office e-Construction initiative.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to [daniel.scheer@dot.state.fl.us](mailto:daniel.scheer@dot.state.fl.us).

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Daniel Scheer, P.E.  
State Specifications Engineer

DS/dt

Attachment

cc: Florida Transportation Builders' Assoc.  
State Construction Engineer

**ALUMINUM POLES, PEDESTALS, AND POSTS.**  
**(REV 10-14-15)**

SUBARTICLE 646-2.2 is deleted and the following substituted:

**646-2.2 Transformer Base:** Use transformer bases listed on the Department's Approved Product List (APL).

Manufacturers seeking APL approval of proprietary transformer bases must submit an application in accordance with Section 6, independent laboratory test report, and calculations and drawings showing details, notes, materials, dimensions, and sizes that the transformer base meets the following requirements:

1. Materials: Meets the material requirements of Aluminum Association Alloy 319 or 356-T6 and ASTM B26 or ASTM B108.

2. Height: Base is 12 to 18 inches in height with a threaded hub at the top for mounting a nominal 4 inch Schedule 40 aluminum pole. The threaded hub must be tapped to allow full pole engagement.

3. Fastening: Provides for fastening to a foundation with four 3/4 inch anchor bolts located 90 degrees apart and a bolt circle diameter of 14 inches. The base design must allow for bolts that are placed off-center.

4. Door: Provides a door opening of not less than 8 inches by 8 inches. The door must be constructed of fiberglass or other non-combustible, non-aluminum material. Attach the door to the base with cleats and one stainless steel socket button head screw or by other means suitable for NEMA 3 electrical enclosures.

5. Moment Capacity: Supports an ultimate moment capacity of 10,000 foot-pounds. ~~Submit~~**Provide** certified test reports from the manufacturer verifying that each base model meets the moment capacity without breaking, cracking or rupturing in any manner.

6. Breakaway: Meets the requirements in the latest revision of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. ~~Submit~~**Provide** the FHWA certification ~~letter~~ for product approval.

7. Identification: Is legibly and visibly marked with the manufacturer's name or logo and the model number.

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