



Florida Department of Transportation

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March 13, 2015


DME MEMORANDUM No. 15-03

TO: District Maintenance Department Heads

FROM: Tim Lattner, P.E., Director, Office of Maintenance

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SUBJECT: Installation of Grout Pads on Ancillary Structures with Excessive Bolt Standoff Distance



Research performed by the University of Florida in conjunction with the Department's Structure Research Lab has shown that for ancillary structures subject to torsional forces without grout pads the anchor bolts will fail at forces below the design level. If a properly constructed grout pad is in place, the anchor bolts will not fail below the design level. Therefore, for traffic signal mast arms with a horizontal member 60 feet long or longer or cantilever sign structures meeting all of the following criteria install a properly constructed grout pad:

- Anchor bolt standoff distance exceeds 1 bolt diameter
- Structure was built 2008 or later
- Structure is within 10 miles of the coast

The grout pad shall meet the requirements of FDOT Specification Section 649-7 and the grout shall meet the requirements of FDOT Specification Section 934-3. Refer to Design Standard Drawing 11310 for grout pads for cantilever signs and Design Standard 17745 for grout pads for traffic signal mast arms.