



## Florida Department of Transportation

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### DME Memorandum Number 15-04

DATE: April 14, 2015

TO: District Maintenance Engineers

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

COPIES: District Directors of Transportation Operations, District Design Engineers, District Roadway Design Engineers, Brian Blanchard, Tom Byron, Michael Shepard

SUBJECT: Repair of High Tension Cable Barrier (HTCB)

This Maintenance Memorandum serves as a request to District Maintenance Engineers to notify Central Office Roadway Design when existing High Tension Cable Barrier (HTCB) foundation elements require maintenance or repair. Additionally, in the event that a HTCB end terminal anchorage foundation require replacement or resetting, coordinate with Central Office Roadway Design to insure that sufficient anchorage is provided.

### REQUIREMENTS

In the event that a HTCB foundation require replacement or repair as a result of excessive deflection or pull-out (i.e. sufficient movement of end terminal anchorage as to cause a loss of cable tension), the following steps shall be taken:

1. Notify the Monitor Contact of Developmental Design Standards Index D450 for coordination and evaluation of the existing systems design and to determine appropriate improvements.
2. As practical, ascertain the dimensions of the existing foundation element (i.e. depth, width, length, diameter, etc.) simultaneously with the next step.
3. Determine the Manufacturer of the existing system and request a copy of the original design or construction documents from the appropriate district representative, if available.
4. Reset or repair the end terminal foundation in accordance with the current contract or procedural requirements. (Please note that repairing nonfunctional installations within the time requirements already established is the highest priority. Do not delay repair efforts for the coordination and foundation evaluation process.)

## **COMMENTARY**

To help better understand the current system requirements, placement guidelines, design criteria, and installation specifications, reference the recently released Roadway Design Bulletin (RDB) 15-05. As noted in RDB15-05, the use of HTCB is under the Departments “Developmental” process.

## **BACKGROUND**

Since the original implementation of HTCB by the FDOT, several national research publications have been issued which provide detailed design guidance, system requirements, and installation recommendations. As a result, the design requirements for HTCB systems, including foundations, have become better understood and more restrictive. Therefore, for some installations, enhancements to existing systems may be warranted to improve the long-term performance and reduce future maintenance requirements.

## **IMPLEMENTATION**

Effective immediately for all installations of HTCB.

## **CONTACT**

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