MEMO
February 27, 2014

To: District Engineers

From: Gregg A. Freeby, P.E., Director Bridge Division
       Carol T. Rawson, P.E., Director Traffic Operations Division

Subject: Revised Roadway Illumination Details Standard Sheets

The Bridge Division (BRG), with assistance from the Traffic Operations Division (TRF), has revised the Roadway Illumination Details, RID(IF) - 14 and RID(UP) - 14 standard sheets. These sheets were revised to update structural mounting details and to remove the use of epoxy anchors in vertical tension. The new standard sheets will be applicable to all new construction projects beginning with the July 2014 letting.

A summary of changes is as follows:

RID(IF) - 14:

- Disallowed adhesive (i.e. epoxy) anchors.
- Reduced required pullout strengths of overhead anchors for mounting Types “BD” and “BB” to provide a more uniform and appropriate factor of safety.
- For Type “BD,” specified a 2” steel pipe stanchion with a maximum length of 3’ to accommodate beam heights up to 54”. Specified a 2 1/2” steel pipe stanchion with a maximum length of 5’ to accommodate beam heights over 54” to provide an appropriate factor of safety.
- Changed horizontal member for mounting Type “UB” from steel plate to steel channel and put a limit on its length to provide an appropriate factor of safety.

RID(UP) - 14:

- Specified a 2 1/2” steel pipe for upper portion of Underpass Lighting Arm Type 2 to accommodate beam heights greater than 54” and provide an appropriate factor of safety.
- Increased the diameter of RMC from 1 1/2” to 2” for UNDERPASS LIGHTING ARM TYPE 1 to provide an appropriate factor of safety.

Both RID(IF) and RID(UP) - 14:

- Revised scope of items to be galvanized.
The revised standard sheets are available in MicroStation and PDF formats at the following web address:

http://www.dot.state.tx.us/insdtdot/orgchart/cmd/cserve/standard/toc.htm

If you have questions, please contact Tim Bradberry at (512) 416-2179, Greg Jones at (512) 416-3121, or me at (512) 416-3200.

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