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May 20, 2021

To: District Engineers

From: Michael A. Chacon, P.E.
Director, Traffic Safety Division

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Subject: Revisions to Barricade and Construction (BC) Standard Sheets

Attached are the revised Barricade and Construction (BC) Standard Sheets. Descriptions of the revisions to each standard sheet are below.

BC (1)-21:

- Received clarification that the Texas Transportation Code does not require certain signs prior or close to the CSJ limits for mobile operations. To reduce confusion, the language in Notes 10 and 11 was revised.
- Removed Sign Detail (G20-10T). This detail was included in the last update to the Standard Highway Signs Designs (SHSD) manual. Also removed applicable language from Note 10.
- Reformatted the reference to the Compliant Work Zone Traffic Control Device List (CWZTCD).

BC (2)-21:

- Revised similar language as BC (1)-21 regarding mobile operations for reasons stated above.
- Revised the sample layout of signing for work beginning downstream of the CSJ limits to add G20-2bT END WORK ZONE and change G20-5aP WORK ZONE to G20-9TP BEGIN WORK ZONE.
- Added TMUTCD Part 5 reference to Note 2 for "Typical Location of Crossroad Signs" and Note 4 for "Typical Construction Warning Sign Size and Spacing."

BC (3)-21:

- Title block was revised to reflect the year 2021. No other changes were made to this sheet.

BC (4)-21:

- Added Stop/Slow Paddle sheeting requirements table.
- Listed Specific Service (LOGO) signs in Note #1 for "Contractor Requirements for Maintaining Permanent Signs within the Project Limits."
- Added Temporary Large Roadside Signs (TLRS) standard reference to Note 5 for "Contractor Requirements for Maintaining Permanent Signs with the Project Limits" and Note 6 for "General Notes for Work Zone Signs." The TLRS standard sheets provide the sign support requirements for temporary large roadside signs.

BC (5)-21:

- Wood Post System for Ground Mounted Sign Supports detail was removed.

BC (6)-21:

- Title block was revised to reflect the year 2021. No other changes were made to this sheet.

BC (7)-21:

- Provided additional clarification that Low Profile Concrete Barriers are permitted for use in work zone locations, where the posted speed limit is 45mph, or less.
- Updated the Concrete Traffic Barrier detail to properly illustrate prequalified barrier reflector types.
- Added MASH 2016 reference to the “END TREATMENTS FOR CTB’S USED IN WORK ZONES” requirements.
- Updated the Flashing Arrow Boards detail. The lamp patterns for the Double Arrow and Left/Right Arrow displays were updated to reflect TMUTCD Figure 6F-6.

BC (8)-21:

- White sheeting retroreflectivity requirement was revised to DMS-8300 Type A or Type B for the following items on BC (8)-21:
 - Vertical Panels on Drums – Note #3 was revised.
 - Drums – Reflective Sheeting Note #1 and the drum detail was revised.
 - Direction Indicator Barricade – Note #3 was revised.
- The Drum detail previously included a built-in ballast and was revised to include a recycled truck tire sidewall ballast. A call-out to the recycled truck tire sidewall ballast note was added. The note includes a reference to approved ballasts on the CWZTCD list.
- The notes for the Detectable Pedestrian Barricades were updated providing clarification on the appropriate use of the barricade and now includes a reference to the WZ(BTS-2) for pedestrian control requirements.

BC (9)-21:

- White sheeting retroreflectivity requirement was revised to DMS-8300 Type A or Type B for the following items on BC (9)-21:
 - Vertical Panels – Note #6 was revised.
- Added MASH 2016 reference to the “WATER BALLASTED SYSTEMS USED AS BARRIERS” requirements.

BC (10)-21:

- White sheeting retroreflectivity requirement was revised to DMS-8300 Type A or Type B for the following items on BC (10)-21:
 - Type 3 Barricades – Note #9 was revised.
 - Cones/Tubular Marker – Note #4 was revised.
- Updated Note 4 for the Cones/Tubular Marker detail to require reflective bands on cones and tubular markers during both the day and night.
- Removed non-compliant Edgeline Channelizer Detail as these devices have not been permitted since March 2014 letting.

BC (11)-21:

- Title block was revised to reflect the year 2021. No other changes were made to this sheet.

BC (12)-21:

- Three retroreflective Raised Pavement Markers (RPMs) were previously permitted to substitute 10' long broken center lines and 10' long broken lane lines within work zones. Based upon discussions with TxDOT Districts, the retroreflective RPMs provide adequate visibility during the night but traffic buttons provide enhanced visibility during the day. TMUTCD Section 6F.79 permits the use of non-reflectorized traffic buttons when supplemented by retroreflective RPMs to substitute markings. Therefore, to enhance daytime visibility and to maintain compliance with the TMUTCD, two traffic buttons have been added to the RPM pattern substituting 10' long broken lines within work zones. The PAVEMENT MARKING PATTERNS DETAIL and the BROKEN LINES STANDARD WORK ZONE PAVEMENT MARKINGS DETAIL have been updated accordingly.
- The "Auxiliary or Lane drop Line" detail was updated. If using RPMs, two sets of RPMs should be used to simulate the 8" wide auxiliary or lane drop lines in work zones.

The standard sheets may be used immediately and shall be used for all applicable PS&E sets beginning with the November 2021 letting. The new sheets are available in MicroStation® "dgn" and Adobe® "pdf" formats at the following address:

<http://www.txdot.gov/insdot/orgchart/cmd/cserve/standard/toc.htm>

If you have any questions, please contact me at (512) 416-3200 or Heather Lott at (512) 416-3344.

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