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TO: Current Holders of the Standard Construction Details

From: Mark Luszcz, P.E.
Deputy Director of Operations and Support *ML*

DATE: February 9, 2024

RE: **2024 Standard Construction Details Update**

DelDOT has published the 2024 Standard Construction Details. It is recommended that all projects PS&E'd after April 1, 2024 use the 2024 Standard Construction Details. Below is a list of the changes in this revision:

Sheet Number	Updates
B1-1	Guardrail half post spacing has met MASH approval requirements. NCHRP 350 compliant note has been removed. The title of this detail has been updated for consistency with the SCD website link. Notes 1 and 2 are repetitive, they have been combined into one note.
B1-2	Revised detail name
B1-3	Notes: Guardrail over curb has been tested with 6" curb of all shapes. 6" max curb can be installed under guardrail with no speed limitations. This speed guidance is per AASHTO Green book for curb design speed considerations and is not relevant for this application. Added new note 5 to dictate the use of maintenance strips, reducing clutter on the page. Added a new section view showing type 2-31 guardrail with a 10" tall timber block. Also provided a new section view for maintenance pavement.
B1-3	Guardrail over Curb Section: Updated maintenance strip and fill to top of back of curb. Title changed; this application cannot be installed with 2-31 rail. Modified subtitle to include MASH compliant system reference. Removed rail, block, and post dimension since it's not necessary. Revised note for area behind post to explicitly not allow breakaway devices, a dimension for the clear area has been added rather than a reference to the table since Type 2-31 guardrail cannot be installed with curb.
B1-3	Guardrail offset from curb: Removed the allowance to use type 2-31 guardrail with this application, it is not a MASH approved application. Added MASH compliant system reference and TL2 designation as a subtitle. Revised the note for maintenance strip to remove clutter, this now references the new note 5. The curb height "H" has been revised to just be the max curb height, 6". The TL2 designation along with

	max speed requirements, "D" offset distance, and "H" curb height have all been added explicitly to the detail. The chart is no longer necessary to maintain, it has been removed.
B1-5	Revised maintenance pavement for clarity. Revised MASH note with additional testing information, and added a note to dictate a minimum of 25' between steep slope applications and transition sections. Revised detail name. Revised Note 2 for the installation of laydown curb within the limits of this application.
B2-1	Notes have been revised to include a requirement for Laydown curb. Dimensions have been revised dimensions with information for use of Laydown curb. Reworded voice of some notes to be direct to the contractor.
B2-2	Original detail has been deleted and combined with B2-1.
B2-3	Notes have been revised to include a requirement for Laydown curb. Dimensions have been revised dimensions with information for use of Laydown curb. Reworded voice of some notes to be direct to the contractor. Added a note restricting the use of this end treatment to tangent sections, this treatment cannot be installed in a curved section of guardrail. This detail has been renumbered to B2-2
B3-1	Revised text size. Relocate "SEE NOTES 7&8" to the splice point instead of the post. This accounts for a half post spacing of unaccounted for payment limits.
B3-2	Revised text size. Relocate "SEE NOTES 7&8" to the splice point instead of the post. This accounts for a half post spacing of unaccounted for payment limits.
B4-1	Revise allowance of 2" curb to Laydown curb. Added note to restrict the placement of reflectors within the anchorage. Removed Note 1 since it's duplicate information from current Note 4 and SCD B13-8.
B7	Revise dimensioned area to stop at the splice location. Provided allowable variance for height of 31" guardrail.
B8-1	This is a republication due to a mid-cycle revision. Minor revision on Note 6 with DE MUTCD.
B10-1	Revised Note 3 to include a restriction on the height of the curb to be 4" Max. This restriction was identified as part of TRP 03-390-19 when they assessed the use of curb within stiffness transitions. Note 7 is revised for tone. Note references were updated for consistency with the note renumbering.
B11-1	Deleted "DESIGNER NOTES" block. This has been incorporated into the Bridge Design Manual. Minor note revision to correct spelling.
B11-3	Deleted "DESIGNER NOTES" block. This has been incorporated into the Bridge Design Manual
B11-5	Deleted "DESIGNER NOTES" block. This has been incorporated into the Bridge Design Manual
B11-7	Deleted "DESIGNER NOTES" block. This has been incorporated into the Bridge Design Manual
B13-9	Revised note 2 to include end anchorages. Notes 1 and 3 for tone.
B13-10	This detail has been Archived.
B20-1	Delete note 1 in favor of a TL sheet tag and renumbered notes. Revised old note 2 to remove payment information, with reliance on Standard Specifications. Revised right most table, removing reference to "Lateral Offset" in favor of "Hinge Point". Lateral offset is a roadside design reference and may cause confusion. Note renumbering required 2 note references be updated.
B20-4	Minor note revision.

B25-1	Removed existing note 1 since payment information should be included in the Specifications. This payment information is already included in Section 723. Associated note reference has also been removed from the callout for No 57 stone. Included a new note one to construct in accordance with Section 723.
B25-2	Note 5 has been removed. The barrier is always installed with an adequate termination. Added reinforcement to the footer to reduce reflective cracking.
B26-1	Removed existing note 1 since payment information should be included in the Specifications. This payment information is already included in Section 723. Associated note reference has also been removed from the callout for No 57 stone. Included a new note one to construct in accordance with Section 723.
B26-2	Note 5 has been removed. The barrier is always installed with an adequate termination. Added reinforcement to the footer to reduce reflective cracking.
B27	Note 5 has been removed. The barrier is always installed with an adequate termination. Associated note references have been updated due to the removal of note 5.
B28	Note 5 has been removed. The barrier is always installed with an adequate termination. Associated note references have been updated due to the removal of note 5.
B29	Note 5 has been removed. The barrier is always installed with an adequate termination. Associated note references have been updated due to the removal of note 5.
B30	Note 5 has been removed. The barrier is always installed with an adequate termination. Associated note references have been updated due to the removal of note 5.
C1-1	Revised depth of PCC curb shading for nose depression. Combined existing notes 1 and 6, created a new note for the curb to be constructed in accordance with Section 701. Removed note 4 since it's duplicate information from C-1 sheet 3 and added the appropriate sheet reference to note 3.
C1-2	Combined existing notes 1 and 6, created a new note for the curb to be constructed in accordance with Section 701.
C1-3	Revised the transition tables for clarity and added a new note 5 to provide clarification of the transition requirements.
C1-4	Removed GABC note, added new laydown curb detail, and revised the title.
C2-1	Removed notes from PC series and added them to C2-1 as notes 14 (A,B,C,D,E)
C2-2	Removed notes 2 and 3 and renumbered the note series. Revised note callouts for accuracy.
C2-3	Removed notes 2 and 3 and renumbered the note series. Revised note callouts for accuracy. Revised the last note in the series to point to C2-8, where the new DWS and DTSI detail will be published. Added a new installation layout and new notes to dictate the placement of DWS for 3 different types of installations. A new note was added to restrict the placement of DWS to not conflict with a grade break.
C2-4	Removed notes 2 and 3 and renumbered the note series. Added a new note for DWS to be placed along the entire length of depressed curb.
C2-5	Removed notes 2 and 3 and renumbered the note series. Added a new note to reference C2-3&4 for placement of DWS.
C2-6	Removed notes 2 and renumbered the note series. Revised note callout for accuracy. Added a new note for DWS placement along the length of the depressed curb.
C2-7	Relocated DWS notes and details and DTSI notes and details to a new detail sheet (C2-8). Added a note for DWS placement within 6" of edge of pavement when no curb is present, this is consistent with PROWAG guidance.

C2-8	New detail. DWS and DTSI details and notes are now located on their own page. An additional DTSI layout detail has been created and an elevation view for DWS and DTSI installation has been developed.
C3-1	Added "Match Existing" and "Match Existing, 6" GABC Min" to section CC for clarity.
C4-1	Added clarifications to the Slump plan view and "On Grade" plan view for appropriate erosion control measures since we no longer use the acronym SRBM. The new language is more inclusive to the types of measures we may install. Revised minor misspellings in the notes and revised the tone of the note 3 to be more direct.
C5-1	Added clarifications to the outfall section views DD and EE for appropriate erosion control measures since we no longer use the acronym SRBM. The new language is more inclusive to the types of measures we may install. Note 2 has been deleted since it is design guidance referencing the Pedestrian Accessibility Standards. Revised of the new note 3 to be more direct. Revised note sheet number with addition of a new curb opening under sidewalk detail.
C5-2	New detail using a I.PCC C&G Type 3-8.
C6-1	Note 1 has been deleted, we have other locations that we can use this detail other than for field changes. Revised the last note to remove the requirement for approval from DeLDOT Bridge Section and a reference to the PAS Manual. Associated note callouts were updated due to the renumbering of notes.
DR-1	Removed duplicate requirement from out Specifications for the installation of steps. Renumbered notes and revised note references in the chart due to renumbering.
D4-1	Removed notes which provide duplicate information to the standard specifications. Revised note 1 because it restricted construction methods inconsistently with the standard specifications. Several note references were updated due to the note renumbering.
D5-2	Minor revision to note 3 to remove "Also".
D5-3	Republication due to mid-cycle updates.
D5-9	Note 1 restricted construction methods and was inconsistent with the standard specifications. This note has been updated to direct construction in accordance with Section 602.
D6-1	Note 3 is duplicate information from our standard specifications. It has been deleted. A new note 1 has been added and the notes renumbered. Note references have been updated due to the note series renumbering.
D6-2	Notes 6 and 8 were deleted since they are duplicate from the specifications. Revised Note 1 to construct in accordance with Section 602 rather than AASHTO M199 since the AASHTO requirement is already included in 602.
D9-1	Deleted existing note 1 and revised notes 6 and 8.
D10-1	Deleted existing note 1 and added a new note to reference section 208.
E1-1	Revised note reference for accuracy.
E3-1	Revised notes 2 and 7.
E4-1	Removed the note about CFL payment. Payment information is not included in Standard Details.
E5-1	Revised "Stone Option" to "Stone Barrier" within the sheet. Revised note 2 for clarity.
E8-1	Revised notes 1 and 2. It doesn't matter for this application what schedule the PVC pipe is, as long as it floats.
E10-1	Deleted note 1 since it is duplicate information. Removed the requirement of geotextile under the riprap since this is temporary and we will always re stabilize the round when we're done. Removed requirement for R-4 riprap since this should always be designed and provided in the plans. Delete callout for Note 1, it's incorrect.

E14-1	Deleted note 3 and revised the verbiage in the standard specifications to allow for contractor to be proactive.
E15-1	Revised sandbag slope to 1:1, this is correct per the dimension of the dike base. Corrected "WEIR" spelling on one of the details.
E17-1	Deleted note, it offers nothing to the contract.
E20-1	Revised Note 2 to clearly dictate the placement of No 3 stone between the riprap and pipe.
E21-1	Deleted notes 2 and 3 since they're not needed. Revised note 1 to dictate the shifting placement of the posts rather than shifting the curb opening, this should help reduce the chance of ponding due to a local low point not at the curb opening.
L01-1	Revised sheet set number
L01-2	Revised sheet set number
L01-3	Revised sheet set number
L01-4	New aquatic planting detail.
M2-1	Added a new note to restrict the use of flexible delineators around PE monuments. Removed text from the "REBAR AND CAP WITH FLEXIBLE DELINEATOR DETAIL"
M3-1	
M4-1	Revised note 1 to be direct towards the contractor. Note 2 was deleted since there's no curb shown on this detail. Notes were renumbered appropriately. The name for the "Bike Rack Detail" was revised to include "typical" to mitigate the potential for conflicting information.
M6-1	Revised Note 3 to install striping in accordance with Section 817 and to the widths required in the DE MUTCD. Added stripes to the outside of the crosswalk as required by the MUTCD.
M9-1	Revise Bus Pad Type 3 detail to include a fully depressed section of curb in front of the DWS. Revised the identifier callout with a note reference for new note 8. Note 8 provides depression and slope requirements for the curb installation.
M10-3	Revised notes 1 and 2 to remove "post spacing" and "working drawings" for consistency with other Standard Detail sheets. Revised note 2 to be direct to the contractor.
M13-1	Removed Temporary pedestrian pathway notes 5 and 6 because they are incorrect. Revised all notes referencing the PAS manual since it's not a contract document.
M14-1	Removed item numbers from limit of payment identifier. We may have additional payment items and this detail should be applicable.
P1-1	Revision to note 3 to remove the 20' minimum requirement and removed the tie bar shown outside the limits of patching. Sheet number updated due to a renumbering of the sequence.
P1-2	Revised Sealant Reservoir Detail for clarity and added a new note 9 with additional information on the depth of the reservoir. Sheet number updated due to a renumbering of the sequence.
P1-3	Added a Tie Bar view and revised the Dowel & Tie bar chart. Sheet number updated due to a renumbering of the sequence.
P1-4	Old P1-4 has been renumbered to P8. Old P1-5 has been renumbered to take it's place. Callouts were modified with a minor text update from "Transverse Joint" to "Joint" since this positioning should be applicable for both dowel and tie bars which would be installed in different joint orientations.
P2-1	Slab Plan view has been updated to show tie bar spacing for applications adjacent to concrete, and a note has been added for clarification when the patch is not adjacent to concrete. A new note was added

	to clarify the use of tie bars on Type B patches vs Type A patches. Sheet number updated to a renumbering of the sequence.
P2-2	Minor reference renumbering due to an additional sheet in the sequence. Sheet number updated due to a renumbering of the sequence.
P2-3	New Sheet. This new sheet shows a longitudinal construction joint detail which uses a dowel bar and a keyway.
P2-4	This is the old P2-3, renumbered due to an addition of a new detail in the series. The detail was updated to include a section view showing the tie bar and a revised Dowel & Tie Bar Chart. A clarifying note was added for depth of the sealant reservoir.
P2-5	This is the old P2-4, renumbered due to the addition of a new detail in the series. Terminology has been updated in the notes to account for both dowel and tie bar placement.
P2-6	This is the old P2-5, renumbered due to the addition of a new detail in the series.
P3-1	Removed joint sealing callout, added note to seal joints in accordance with section 401 instead.
P4-1	Removed reference to DGM 1-20 and joint sealing requirement.
P5-2	Revised the stripe dimension for consistency with DE MUTCD. Revised notes to provide clear direction to a contractor.
P7	New detail for speed hump.
P8	Dowel Support basket detail has been relocated to its own section since it's applicable to both Series P1 and P2.
T1-1	Revised the text on the JW lid for consistency with the Specifications. Removed Note 5 because it duplicates the Specifications.
T1-2	Revised the text on the JW lid for consistency with the Specifications. Removed old Note 4 because it duplicates the Specifications. Added a new Note 2 to dictate placement of the JW in relation to the traveled way. Renumbered notes accordingly.
T1-3	Revised the text on the JW lid for consistency with the Specifications. Removed old Note 4 because it duplicates the Specifications. Added a new Note 2 to dictate placement of the JW in relation to the traveled way. Renumbered notes accordingly.
T1-4	Removed old Note 4 because it duplicates the Specifications. Added a new Note 2 to dictate placement of the JW in relation to the traveled way. Renumbered notes accordingly.
T2-1	Updated several callouts with "COLOR-GREEN"
T3-1	Deleted old note 3 because it has been added to the Specifications. Revised old note 5 and renumbered notes.
T4-1	Minor text revisions to include a period after "TYP"
T4-2	Adding a material requirement for the conduit to be "galvanized steel"
T5-2	Republication due to mid-cycle updates.
T5-3	Added a new note 7.
T5-4	Added a new note 7.
T5-5	Added new note 2's.
T8-1	Minor text revisions changing "saw cut" to "sawcut"
T8-2	Added "finished pavement surface" identifier for consistency with other details.
T8-4	Revised note 3 to call for "non-shrink concrete caulk"

T9-1	Added "Loop Detector Splice" view title
T9-4	Revised text style and 3 identifiers to call for "2" Retroreflective florescent" instead of "2" Reflective". Also revised Note 7 for consistency.
T12-3	Revised note 2 for accuracy, removing "Project".
T14-1	Minor text style update.
T14-2	Minor text style update.
T15-1	Removed several notes which duplicated information from the Specifications. A new note 1 has been created as a material reference to the relevant section in our Specifications. Additional guidance information for the placement of signs relative to a median has been added.
T16-1	Callouts have been revised to include the relevant DE MUTCD object marker name. Notes and tables have been revised to remove metric measurements and duplicate specification information.
T17-1	Minor text revisions to include a period after "TYP"
T17-2	Minor text revisions to include a period after "TYP"
T17-3	Minor text revisions to include a period after "TYP"
T17-4	Minor text revisions to include a period after "TYP"
T17-5	Minor text revisions to include a period after "TYP"
T17-6	Minor text revisions to include a period after "TYP"
T17-7	Minor text revisions to include a period after "TYP"
T18-3	Notes 1 and 2 have been revised for accuracy to the correct Specifications section.
T19-1	Minor text revisions to include a period after "TYP"
T19-2	Minor text revisions to include a period after "TYP". Miscellaneous text identifiers were updated with clarifying information and a maximum size for drain holes.
T19-3	This is a new detail to the series; it was relocated from T-25 because it fits better here. Minor text revisions to include a period after "TYP"
T23-2	Added an underline to the table name and fixed grammatical error.
T24-1	Minor text revisions
T26	Renumbered to T25 due to relocation of previous T-25 to T19-3.
T27-1	Renumber to T26-1 due to relocation of previous T-25 to T19-3.
T27-2	Renumber to T26-2 due to relocation of previous T-25 to T19-3.

Please contact Andrew Short at (302) 760-2313 if you have any questions.

ML/as

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