



STATE OF MICHIGAN
DEPARTMENT OF TRANSPORTATION
LANSING

GRETCHEN WHITMER
GOVERNOR

PAUL C. AJEGBA
DIRECTOR

April 25, 2022

Dear Standard Plan Book Holders:

Subject: Standard Plans R-4-E, R-15-G, R-20X-E, R-27-F, R-28-J, R-33-G, R-40-I, R-102-C,
B-22-E, B-23-F, B-50-A, & B-101-G

The Michigan Department of Transportation has revised the subject standard as follows:

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| Standard Plan R-4-E | Eliminated an outdated reference to Grade P2 concrete in favor of the current Standard Specifications for Construction. |
| Standard Plan R-15-G | Added an optional lift hole (and detail) to the frame. |
| Standard Plan R-20X-E | Eliminated “For use on manholes” in the title block. |
| Standard Plan R-27-F | Eliminated Detail 4 (with the 12” curb height) since this height is not allowed with the new MASH compliant anchorages. Revised Detail 4A (with the 4” curb height) for use on both approach and departing ends. Also, revised the shape of the barrier (end of bridge railing) and added text indicating use with the Detail “M” anchorages and the required number of drainage structures based on a hydrological analysis of the area and size of bridge deck. |
| Standard Plan R-28-J | “Turning spaces” were renamed “landings” and Sidewalk Ramps” were renamed “Curb Ramps”. On sheet two (and illustrated on sheet 6), added reinforcing bars in the curb ramp opening and a tie bar from the pavement to the curb ramp opening with a note stating reinforcement as in adjacent curb and gutter, see Standard Plan R-30-series. Modified the detail at the bottom of sheet two (section through curb ramp opening) to emphasize the slopes required in the curb ramp opening area. Maximum vertical dimensions from the curb invert to the two edges of the curb and gutter opening (labeled “A” & “B”) were provided (Table) for various curb types. On sheets two and six, the term “curb cut” or “curb & gutter” were revised to “curb ramp opening” and “ramp” was changed to “ramp run”. A landing was eliminated in the Ramp Type C sketch on page three. Eliminated notes in the note section on providing turning spaces where pedestrian turning movements are required and transitioning the gutter pan cross section. Clarified a note in the note section regarding the running slope and the 15’ maximum length of a ramp. Eliminated a portion of the |

	“*” note on sheets one through four in favor of a note in the note section.
Standard Plan R-33-G	Modified the barrier shape to the single slope barrier.
Standard Plan R-40-I	On sheet four in the note section, revised a note regarding dowel bar coating to reference the Standard Specifications for Construction instead of an AASHTO specification.
Standard Plan R-102-C	Added a note in the note section and text in Detail #1 referencing the proper placement of fence in the presence of mechanically stabilized earth (MSE) walls.
Standard Plan B-22-E	Added the MGS-8 to the guardrail types which connect to Bridge Railing Thrie Beam Retrofit. Updated details with new guardrail approach sections, Detail A3 (Guardrail Type MGS-8), A4 (Guardrail Type T) and A5 (Guardrail Type B). Revised the term “thrie beam transition” (panel) to “symmetrical thrie beam transition”.
Standard Plan B-23-F	Added the MGS-8 to the guardrail types which connect to Bridge Railing Thrie Beam Retrofit. Updated details with new guardrail approach sections, Detail A3 (Guardrail Type MGS-8), A4 (Guardrail Type T) and A5 (Guardrail Type B). Revised the term “thrie beam transition” (panel) to “symmetrical thrie beam transition”.
Standard Plan B-50-A	New bridge railing to be used with >10” brush block or sidewalk. The concrete block is located at the face of the brush block or sidewalk and protects the existing railing, or the existing railing is removed.
Standard Plan B-101-G	Updated notes, as most of the information is now covered in the 2020 Standard Specifications. Updated note on sheet 2, Section B-B, for steel beam connection regarding installation (snug tightening) of brackets. Updated allowable concrete beam insert types and material requirements.

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Special Instructions:

For those choosing to maintain a loose leaf hard copy of the Standard Plans, the following assembly instructions are provided. In addition to removing and replacing the appropriate standard plans with the enclosed revisions remove standard plans R-43-I, R-45-J, R-80-E, R-100-H, R-110-A, R-112-I (a special detail has superseded these plans) and B-17-D and B-20-D (obsolete plans).

Note that in some cases it may be necessary to retain the outdated plans until all projects using these superseded plans have been completed.

Questions regarding revisions to the road details can be directed to MDOT-Road-Design-Standards@michigan.gov.

Questions regarding revisions to the bridge details can be directed to MDOT-Bridge-Design-Standards@michigan.gov.

Sincerely,

Kristin Schuster

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Apr 21 2022 3:33 PM

Kristin Schuster
Engineer of Design

Enclosures

cc: C. Libiran
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BOD:DD:QA:WKP;jlh