



**Iowa Department of Transportation**  
*Highway Division*

**TO:** Holders of Standard Road Plans  
**FROM:** Office of Design  
**SUBJECT:** Revision of Manual (English)

**TRANSMITTAL DATE:**  
**REVISION DATE:** 04-19-16

INSTRUCTIONS: The attached Standard Road Plans have received approval and may be referred to in the plans by number. Questions concerning information contained on the Standard Road Plans should be directed to the Methods Section, Office of Design, telephone (515) 239-1727 or email [daniel.harness@dot.iowa.gov](mailto:daniel.harness@dot.iowa.gov).

Item Description	Description of Revision
*Note*	The following revisions are effective with the April 19, 2016 letting. Projects let prior to this date may reference earlier versions of these Standard Road Plans.
<p><b>BA INDEX</b>            BA-200             BA-201            BA-205            BA-206            BA-210             BA-250             BA-251             BA-252             BA-253            BA-500   <b>DR INDEX</b>            DR-101            DR-104            DR-206             DR-401             DR-402   <b>EC INDEX</b>            EC-101</p>	<p>Added steel post and blockout details. Added new details for installing posts in bedrock or pavement. Changed top bolt hole location for wood post.</p> <p>Added steel post option. Changed top bolt hole location for wood post blockout.</p> <p>New layout, notes, and title to reflect update to MASH approved end terminal.</p> <p>New layout, notes, and title to reflect update to MASH approved end terminal.</p> <p>Added EPOXY CONNECTION detail, circle notes 5 and 6, and possible tabulations. Changed standard note to state use is not intended for intakes.</p> <p>Updated layout and possible contract items to reflect update to MASH approved end terminals. Added circle note 5.</p> <p>Updated layout and possible contract items to reflect update to MASH approved end terminals. Added a min. 12.5 to VT1t.</p> <p>Updated layout and possible contract items to reflect update to MASH approved end terminals. Added a min. 12.5 to VT1t.</p> <p>Updated to MASH approved end terminal. Removed circle note 1. Added VT.</p> <p>Changed formula in Column Z.</p> <p>Changed W to D in TRENCH INSTALLATION drawings.</p> <p>Added general note regarding maximum cover on concrete arch pipes.</p> <p>New Similar standard already in place for round pipe aprons.</p> <p>Modified note 2 to eliminate requirement to place center of flume a minimum of 9 feet from a joint. Changed Section B-B from V shape to flume shape. Removed the 9 foot requirement from the Design Manual as well. The flume itself does not fall within the</p> <p>Modified note 3 to eliminate requirement fo place center of flume a minimum of 9 feet from a joint. Removed the 9 foot requirement from the Design Manual as well. The flume itself does not fall within the pavement, so a minimum distance from the edge of</p> <p>Revised to show placement of erosion control beginning at the end of the apron.</p>

<b>EC INDEX cont.</b>	
EC-104	Revised to show placement of erosion control beginning at the end of the apron. Changed color in PLAN views to match wood excelsior mat.
EC-105	New
EC-204	Added detail "B" on Page 1. Added new circle note 2 on Sheet 1 and renumbered remaining circle notes. Added circle note 6 on Sheet 3.
<b>EW INDEX</b>	
EW-201	Changed reference from RK series to BR series on Circle Note 4.
EW-202	Changed reference from RK series to BR series in Circle Note 4.
<b>LI INDEX</b>	
LI-110	Removed venting and caulking requirements for Doubler Plate. Changed non-sag urethane caulking from light grey to brown or colorless. 1.Per current policy, high mast light towers are to be constructed of weathering steel and are not to be galvanized. Co
LI-201	Removed last paragraph in general notes referring to precast foundations now covered in Article 2523.03, G of the Standard Specifications.
<b>LS INDEX</b>	
LS-625	New. Previously published as BA-205.
LS-626	New. Previously published as BA-206.
LS-630	New. Previously published as BA-250.
LS-631	New. Previously published as BA-251.
LS-632	New. Previously published as BA-252.
LS-633	New. Previously published as BA-253.
<b>PM INDEX</b>	
PM-310	Added LDW8 to legend. Added paved gore on Parallel Entrance and Exit Ramps. Added sheet 3, Auxillary Lane Between Ramps. No guidance is provided in MUTCD for length of CHW8 upstream of paved gore. Offices of Design and Traffic and Safety decided 250' fee
<b>PV INDEX</b>	
PV-12	Added Detail 'A' and circle note 2 on page 1. Reduced depth of rumble 1/8".
PV-13	Split 16" wide rumble into 6" mill-4"gap-6" mill and reduced depth 1/8". Added circle notes 1 and 2 on page 1. Separated PCC and HMA patterns.
PV-101	Added a Legend to define existing and proposed pavement. Shaded proposed pavement. Adjusted circle not 5 removing saw cut, adjusted dowel to tie bar lower right figure page 1. Offices of Design and Construction met with SUDAS and determined the diamond cut option can be removed from note 5. Industry pointed out we are getting 0.177 inch wire rather than the 0.135 inch wire specified in note 23. Also, the statement "Wire sizes shown are the minimum require belongs in note 22, not note 19.
<b>SI INDEX</b>	
SI-101	Changed 'Lane Edge Line' to 'Edge of Traveled Way'. Replaced 'Y' with numerical value including tolerance. Removed advisory sign from middle view.

<b>SI INDEX cont.</b>	
SI-102	Changed 'Lane Edge line' to 'Edge of Traveled Way', modified notes and added Possible Contract Items and Tabs. Added FOUR POST DETAIL.
SI-111	Added "nominal" to wood post dimensions, labeled 5' depth of embedment and replaced the DOT logo in the title block with the new version.
SI-112	New. Combined footing information previously shown on SI-113 and SI-114. Moved footing information to SI-112 to eliminate redundancy on SI-113 and SI-114 and created this "footing only" standard.
SI-113	Moved footing information to SI-112. Removed various post sizes and Hinge Alternate 2. Changed "C" dimension. Added reference to 2540.05, I in notes.
SI-114	Moved footing information to SI-112. Changed title and added oblique views.
SI-119	Changed Type 2 and 3 brackets and added Type 5 and 6 brackets to accommodate route shields. Added circle note 3 for sign spacing.
SI-121	Added circle note 1 to pages 2 and 3 and circle note 2 to page 5. Updated tables on all pages to reflect current sign types and sizes.
SI-123	Replaced the DOT logo in the title block with the new version and modified two dimensions on the Full Structure Section drawing..
SI-171	Updated sign colors and fonts on pages 2-4. Changed Neoprene Washer to Hot Dipped Galvanized on page 1.
SI-172	Widened general notes column to add possible contract items and possible tabulation.
SI-173	Removed OM1-1, OM1-3, and 0.63" aluminum call out on page 1. Modified general notes, drawing labels, and changed dimensions to 1 pt. of accuracy.
SI-175	Changed mounting height to match MUTCD. Removed views of brackets no longer used. Added circle note 4.
SI-182	Removed OM4-1 and OM4-3 from END OF ROADWAY MARKER FABRICATION detail. Revised note 3 and APPROACH VIEW detail. Removed optional Type III reflective sheeting and use of reflectors for buttons.
<b>TC INDEX</b>	
TC-252	Added circle note 3 to page 2 and changed circle note 3 to 4 on page 3. Modified the SITUATION 1 (URBAN) detail on page 2.
TC-419	Added circle note 3.