



# INDIANA DEPARTMENT OF TRANSPORTATION

*Driving Indiana's Economic Growth*

## Design Memorandum No. 13-11 Technical Advisory

May 29, 2013

**TO:** All Design, Operations, and District Personnel, and Consultants

**FROM:** *Elizabeth W. Phillips*  
Elizabeth W. Phillips  
Manager, Office of Standards and Policy  
Division of Bridges

**SUBJECT:** Indiana Design Manual Errata and Editorial Revisions

**REVISES:** Indiana Design Manual Sections indicated below

**EFFECTIVE:** Immediately

The following represent errata to the current *Indiana Design Manual*.

<u>Section or Figure</u>	<u>Correction</u>
Figure 14-1E(1)	<u>PSE Checklist</u> . Corrected item 23 - inadvertent duplication of item 22 revised to 'Does the MOT account for drainage?'
14-2.04(09)	Added Environmental Consultation Form inadvertently deleted when incorporating Design Memo 11-19
43-3D	Revised to agree with previous updates to Figure 43-3C that incorporated the AASHTO <i>Policy on Geometric Design of Highways and Streets</i> 2004 values.
49-5.01	Corrected distance from face of guardrail to shoulder break point to 3'-5".
55-5.04(02)	Corrected distance from face of guardrail to shoulder break point to 3'-5". Clarified that the minimum distance from the edge of travelway to the face of guardrail is 4 ft. The minimum guardrail offset may be 0 ft.
72-3.01(02), item 4	Corrected units for Bridge Deck Overlay to syd. Added derivation of conversion factors.
203-2.02(09)	Removed inadvertent inclusion of box structures.

203-4.04(06)	Corrected the minimum flow rate from 2.5 ft/sec. to 3.0 ft/sec.
Figure 203-4E	Deleted metric coefficient 0.00278 in $Q=CIA$ formula. Revised 'Discharge' to 'Flowrate'.
Figure 203-4I	Deleted metric coefficient 0.00278 in $Q=CIA$ formula. Revised 'Discharge' to 'Flowrate'.
404-2.06(03), item 3c.	Corrected description of SS joint opening to <i>maximum</i> of 4 in.
410-5.01(06)	Corrected equation for wall design height to include $\tan\beta$ .

The following represent editorial revisions to the current *Indiana Design Manual*.

<u>Section or Figure</u>	<u>Revision</u>
Figure 14-1E(1) and Figure 14-1E(2)	<u>PSE Checklist</u> . Added comments field for Sections 1 and 2. Revised item 46 and narrative in accordance with MAP-21. Revised item 40 to include field for most recent Additional Information (AI) approval date.
14-2.04(01)	Clarified that the modeling checklist is included with the hydraulics submission only when modeling is required for the IDNR Construction in a Floodway permit.
Figure 72-2B	<u>Bridge Scoping Report</u> . Added NBI Number to the information shown on the Bridge Scoping Report cover sheet.
406-1.0	Revised upper limit of 28-day concrete strength to 8 ksi.
Figure 409-7F	<u>Elastomeric Bearing Pad with Tapered Steel Plate</u> . Revised 'beveled' to 'tapered' to be consistent with LRFD terminology. Deleted callouts for stainless steel. Added note when stainless steel may be considered.
409-7.03(03)	Added reference to Figure 409-7F. Added discussion regarding when stainless steel load plate may be considered.

The following represent revisions to the *Indiana Design Manual* as a result of Standards Committee action.

<u>Section or Figure</u>	<u>Revision</u>
201-1.07	Added requirement that similar metals be used for pipe extensions.
203-2.02(15)	Added requirement that similar metals be used for pipe extensions.
404-2.03 and Figure 404-2D	Effective with September 1, 2012 lettings, precast deck panels were removed as an acceptable alternate method of forming concrete decks. Deleted Figure 404-2D.
408-4.06	Effective with July 1, 2013 lettings, use the Recurring Special Provision 728-B-203 for drilled shaft foundations with an outside diameter of 5.0 ft or less.