

LRFD Bridge Design Manual Update ~ July and October 2020

BDM Articles Updated	Description of BDM Update	Implementation Date
1.18	Updated IM number and link for: “Instructional Memorandum for LPA Check and Final Bridge or Culvert Plans”.	July 1, 2020
3.1.1 & 3.1.2	Added Concept Development language and a link to example documents.	July 1, 2020
3.2.1	Added language for existing FHWA numbers.	July 1, 2020
3.6.1.4 & 3.6.1.5	Estimated haunch depth revised for PPCB and RSB standard bridges.	July 1, 2020
3.7.2	Table 3.7.2: Added note (3) clarifying that the maximum length and skew limits for standard integral abutments is based on the thermal origin being located at the center of the bridge.	July 1, 2020
<u>3.7.4, 6.6.1.1</u>	<u>Updated language for footing elevation and scour design for overbank piers.</u>	<u>October 1, 2020</u>
3.8	Updated language and Unit Costs in Table 3.8; Detour bridge update	July 1, 2020
3.11	Update Table 3.11, Bridge Bureau Concept Form and Attachment and updated table notes.	July 1, 2020
<u>3.11</u>	<u>Table 3.11 Added footnote 4 for DNR permit.</u>	<u>October 1, 2020</u>
C3.11	Updated example forms on pages C3.54 – C3.57	July 1, 2020
<u>4.1.1</u>	<u>Added concept development language and a link to example documents.</u>	<u>October 1, 2020</u>
<u>4.1.2.1</u>	<u>Added guidance for assigning structure identification numbers.</u>	<u>October 1, 2020</u>
<u>4.2.2</u>	<u>Revised suggested Ke value for parallel wing RCBs.</u>	<u>October 1, 2020</u>
<u>4.5.1</u>	<u>Added newly released single RCB standard sizes.</u>	<u>October 1, 2020</u>
<u>4.5.1.1</u>	<u>New section - Added language for using parallel wing headwalls for CIP and precast RCBs.</u>	<u>October 1, 2020</u>
<u>4.5.2</u>	<u>Added language for using precast RCB on bends, drop inlets, flumes, unique headwalls and scour floors. Updated language for TS&L production for twin and triple RCBs.</u>	<u>October 1, 2020</u>
<u>4.5.11</u>	<u>Updated RCB and revetment unit costs.</u>	<u>October 1, 2020</u>
<u>5.2.1.1, 5.2.4.1.2, New C5.2.4.1.2, 13.9.2, 13.10.2</u>	<u>Deck pour section and sequence guidance was updated. New commentary was added to supplement guidance and include examples. CADD Notes E926, E1040A, E1040B, and E1040C were updated.</u>	<u>All lettings starting with February 16, 2021.</u>
<u>5.2.4.1.2, 13.3.2</u>	<u>Designer shall ensure survey is obtained and used in the design of bridge deck replacement projects and bridge widening projects. CADD Note E101 was updated.</u>	<u>October 1, 2020</u>

<u>5.2.4.1.2</u>	<u>Designer shall add plan note that beam deflections for beam lines adjacent to closure pour with reduced tributary deck weight have been adjusted.</u>	<u>October 1, 2020</u>
<u>6.2.2.2, 6.2.6.1</u>	<u>The use of pile structural resistance level 1.5 (SRL-1.5) was clarified. Any load increase above the SRL-1 limit is limited to downdrag load and may not exceed the SRL-1.5 limit.</u>	<u>October 1, 2020</u>
Table 6.5.1.1.1-1 & Table 6.5.1.1.1-2	Added table note (7) clarifying that the maximum length of bridge is based on the thermal origin being located at the center of the bridge.	July 1, 2020
C6.5.1.1.1 - LRFD Integral Abutment Example	Adds the following “Given”: The thermal origin is assumed to be at the center of the bridge.	July 1, 2020
8.2	Several edits have been made to make the “Second Stage Decision Making Tool: ABC AHP” optional.	July 1, 2020
13.3.2 - E192, pg 13:21	Modified explanatory note, paragraph 2, which indicates, “The note in the J Standards for CCS bridges already accounts for the possibility of staged construction...” J Standards will be updated at August 2020 release.	July 1, 2020
13.8.1 & 13.8.2 - E836, pg 13:55-56	Added CADD Note E836 - Working Day Water Elevation, which is to be used to establish fair bidding practices based on a reasonable water elevation for projects that qualify.	July 1, 2020
<u>13.10.2</u>	<u>Added CADD Note E1036 to limit screed rails from being supported on existing decks during deck placement for widenings and staged construction since that can cause differential deflection which may adversely affect deck finish.</u>	<u>October 1, 2020</u>