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## MEMORANDUM

TO: ALL CONSULTANTS  
ALL BRIDGE DESIGNERS

FROM: PAUL FOSSIER, P.E.   
BRIDGE DESIGN ENGINEER ADMINISTRATOR

SUBJECT: BRIDGE DESIGN TECHNICAL MEMORANDUM NO. 80 REV. NO. 1  
(BDTM.80.1)  
PUBLICATION OF NEW SLAB SPAN SPECIAL DETAILS

DATE: April 2, 2018

### Revision No. 1 Summary:

This revision includes publication of new details for 30', 32', 40', and 44' clear widths for 0° skew, and publication of revised Common Details and 36' clear width details. All other content of BDTM 80 remains the same.

### BDTM.80.1

Effective immediately, use of the subject special details, "Slab Span Special Details", with a signature date of April 2, 2018, shall be implemented for all applicable projects in the preliminary plan stage. For projects in the final plan stage, the new Slab Span Special Details may be implemented if the scope and schedule will not be impacted. If the new details are to be implemented, but the scope or schedule will be impacted, the bridge task manager shall obtain prior approval from the Bridge Design Engineer Administrator.

### Organization and Applicability:

The new Slab Span Special Details are organized into "Common Details" and "Specific Details." The Specific Details are to be used in conjunction with the Common Details. These standards apply to slab span bridges on straight alignments, for roadway widths of 30', 32', 36', 40', and 44', including skews of 0°, 15°, 30° and 45°. See the table on page 3 for a complete list of all published and planned Slab Span Special Details sheets.

This publication consists of the following sheets:

- Common Details: BD.2.1.1.1.01 – General Notes and Index
  - BD.2.1.1.1.02 – As-Designed Bridge Rating Factors
  - BD.2.1.1.1.03 – Miscellaneous Common Details – Slab
  - BD.2.1.1.1.04 – Miscellaneous Common Details – Bent
- 30' Clear Width Specific Details: BD.2.1.1.4.01 – Details – Slab Span (All Skews)
  - BD.2.1.1.4.02 – Quantities – Slab Span (All Skews)
  - BD.2.1.1.4.03 – Details and Quantities – End Bent (0° Skew)
  - BD.2.1.1.4.04 – Details and Quantities – Intermediate Bent (0° Skew)

32' Clear Width Specific Details: BD.2.1.1.4.01 – Details – Slab Span (All Skews)  
BD.2.1.1.4.02 – Quantities – Slab Span (All Skews)  
BD.2.1.1.4.03 – Details and Quantities – End Bent (0° Skew)  
BD.2.1.1.4.04 – Details and Quantities – Intermediate Bent (0° Skew)

36' Clear Width Specific Details: BD.2.1.1.4.01 – Details – Slab Span (All Skews)  
BD.2.1.1.4.02 – Quantities – Slab Span (All Skews)  
BD.2.1.1.4.03 – Details and Quantities – End Bent (0° Skew)  
BD.2.1.1.4.04 – Details and Quantities – Intermediate Bent (0° Skew)

40' Clear Width Specific Details: BD.2.1.1.4.01 – Details – Slab Span (All Skews)  
BD.2.1.1.4.02 – Quantities – Slab Span (All Skews)  
BD.2.1.1.4.03 – Details and Quantities – End Bent (0° Skew)  
BD.2.1.1.4.04 – Details and Quantities – Intermediate Bent (0° Skew)

44' Clear Width Specific Details: BD.2.1.1.4.01 – Details – Slab Span (All Skews)  
BD.2.1.1.4.02 – Quantities – Slab Span (All Skews)  
BD.2.1.1.4.03 – Details and Quantities – End Bent (0° Skew)  
BD.2.1.1.4.04 – Details and Quantities – Intermediate Bent (0° Skew)

These new details have been published in Projectwise for use.

Bent details for skewed bridges will be developed over time, on a project-by-project, as-needed basis. Contact the bridge design standards manager for projects involving a skewed slab span bridge.

SLAB SPAN DETAILS	CLEAR WIDTH	BRIDGE STANDARD INDEX NO.	SERIES	DESCRIPTION	PUBLICATION DATE
COMMON DETAILS	N/A	BD.2.1.1.1.01	1 OF 4	GENERAL NOTES AND INDEX	4/2/2018
		BD.2.1.1.1.02	2 OF 4	AS-DESIGNED BRIDGE RATING FACTORS	4/2/2018
		BD.2.1.1.1.03	3 OF 4	MISCELLANEOUS COMMON DETAILS - SLAB	4/2/2018
		BD.2.1.1.1.04	4 OF 4	MISCELLANEOUS COMMON DETAILS - BENT	4/2/2018
SPECIFIC DETAILS	30'	BD.2.1.1.4.01	1 OF 2	DETAILS - SLAB SPAN (ALL SKEWS)	4/2/2018
		BD.2.1.1.4.02	2 OF 2	QUANTITIES - SLAB SPAN (ALL SKEWS)	4/2/2018
		BD.2.1.1.4.03	1 OF 2	DETAILS & QUANTITIES - END BENT - 0° SKEW (18" & 24" PILES)	4/2/2018
		BD.2.1.1.4.04	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 0° SKEW (18" & 24" PILES)	4/2/2018
		BD.2.1.1.4.05	1 OF 2	DETAILS & QUANTITIES - END BENT - 15° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.4.06	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 15° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.4.07	1 OF 2	DETAILS & QUANTITIES - END BENT - 30° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.4.08	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 30° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.4.09	1 OF 2	DETAILS & QUANTITIES - END BENT - 45° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.4.10	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 45° SKEW (18" & 24" PILES)	T.B.D.
	32'	BD.2.1.1.5.01	1 OF 2	DETAILS - SLAB SPAN (ALL SKEWS)	4/2/2018
		BD.2.1.1.5.02	2 OF 2	QUANTITIES - SLAB SPAN (ALL SKEWS)	4/2/2018
		BD.2.1.1.5.03	1 OF 2	DETAILS & QUANTITIES - END BENT - 0° SKEW (18" & 24" PILES)	4/2/2018
		BD.2.1.1.5.04	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 0° SKEW (18" & 24" PILES)	4/2/2018
		BD.2.1.1.5.05	1 OF 2	DETAILS & QUANTITIES - END BENT - 15° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.5.06	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 15° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.5.07	1 OF 2	DETAILS & QUANTITIES - END BENT - 30° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.5.08	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 30° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.5.09	1 OF 2	DETAILS & QUANTITIES - END BENT - 45° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.5.10	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 45° SKEW (18" & 24" PILES)	T.B.D.
	36'	BD.2.1.1.6.01	1 OF 2	DETAILS - SLAB SPAN (ALL SKEWS)	4/2/2018
		BD.2.1.1.6.02	2 OF 2	QUANTITIES - SLAB SPAN (ALL SKEWS)	4/2/2018
		BD.2.1.1.6.03	1 OF 2	DETAILS & QUANTITIES - END BENT - 0° SKEW (18" & 24" PILES)	4/2/2018
		BD.2.1.1.6.04	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 0° SKEW (18" & 24" PILES)	4/2/2018
		BD.2.1.1.6.05	1 OF 2	DETAILS & QUANTITIES - END BENT - 15° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.6.06	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 15° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.6.07	1 OF 2	DETAILS & QUANTITIES - END BENT - 30° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.6.08	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 30° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.6.09	1 OF 2	DETAILS & QUANTITIES - END BENT - 45° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.6.10	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 45° SKEW (18" & 24" PILES)	T.B.D.
	40'	BD.2.1.1.7.01	1 OF 2	DETAILS - SLAB SPAN (ALL SKEWS)	4/2/2018
		BD.2.1.1.7.02	2 OF 2	QUANTITIES - SLAB SPAN (ALL SKEWS)	4/2/2018
		BD.2.1.1.7.03	1 OF 2	DETAILS & QUANTITIES - END BENT - 0° SKEW (18" & 24" PILES)	4/2/2018
		BD.2.1.1.7.04	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 0° SKEW (18" & 24" PILES)	4/2/2018
		BD.2.1.1.7.05	1 OF 2	DETAILS & QUANTITIES - END BENT - 15° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.7.06	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 15° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.7.07	1 OF 2	DETAILS & QUANTITIES - END BENT - 30° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.7.08	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 30° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.7.09	1 OF 2	DETAILS & QUANTITIES - END BENT - 45° SKEW (18" & 24" PILES)	T.B.D.
		BD.2.1.1.7.10	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 45° SKEW (18" & 24" PILES)	T.B.D.
44'	BD.2.1.1.8.01	1 OF 2	DETAILS - SLAB SPAN (ALL SKEWS)	4/2/2018	
	BD.2.1.1.8.02	2 OF 2	QUANTITIES - SLAB SPAN (ALL SKEWS)	4/2/2018	
	BD.2.1.1.8.03	1 OF 2	DETAILS & QUANTITIES - END BENT - 0° SKEW (18" & 24" PILES)	4/2/2018	
	BD.2.1.1.8.04	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 0° SKEW (18" & 24" PILES)	4/2/2018	
	BD.2.1.1.8.05	1 OF 2	DETAILS & QUANTITIES - END BENT - 15° SKEW (18" & 24" PILES)	T.B.D.	
	BD.2.1.1.8.06	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 15° SKEW (18" & 24" PILES)	T.B.D.	
	BD.2.1.1.8.07	1 OF 2	DETAILS & QUANTITIES - END BENT - 30° SKEW (18" & 24" PILES)	T.B.D.	
	BD.2.1.1.8.08	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 30° SKEW (18" & 24" PILES)	T.B.D.	
	BD.2.1.1.8.09	1 OF 2	DETAILS & QUANTITIES - END BENT - 45° SKEW (18" & 24" PILES)	T.B.D.	
	BD.2.1.1.8.10	2 OF 2	DETAILS & QUANTITIES - INTERMEDIATE BENT - 45° SKEW (18" & 24" PILES)	T.B.D.	

T.B.D. : To Be Developed

Existing Slab Span Special Details:

Use of all existing slab span special details for 30', 32', 36', 40' and 44' roadway widths shall be discontinued for projects in the preliminary plan stage.

Existing slab span sets for 24' and 28' roadway widths will remain in use.

This technical memorandum is posted on the LA DOTD Website under [Inside La DOTD > Divisions - Engineering > Bridge Design > Technical Memoranda – BDTMs.](#)

Please contact Ms. Zhengzheng “Jenny” Fu (225-379-1321, [zhengzheng.fu@la.gov](mailto:zhengzheng.fu@la.gov)) if you have questions or comments.

PF/zzf /abl

Attachment

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