State of California
DEPARTMENT OF TRANSPORTATION

California State Transportation Agency

Memorandum

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To: ALL USERS OF THE BRIDGE STANDARD DETAIL SHEETS (XS)

Date: December 13, 2013

File: http://www.dot.ca.gov/hq/esc/techpubs/

From: SHANNON POST, Chief
Office of Design and Technical Services
Structure Policy and Innovation
Division of Engineering Services

Subject: **BRIDGE STANDARD DETAIL SHEETS (XS) CHANGE TRANSMITTAL**

Attached, please find a summary of revisions to the Bridge Standard Detail Sheets (XS) from July 2013 through December 2013.

Change transmittals memorandums shall be issued on a semi-annual basis, or concurrent with major releases.

Users are reminded of the following:

Disclaimer:
The California Department of Transportation (Caltrans) provides Bridge Standard Detail Sheets (XS) on an "as is" basis. All warranties and representations of any kind with respect to these sheets are disclaimed. These sheets are not Standard Plans and are subject to frequent modification. It is the responsibility of the user to ensure usage of the most current sheets and that the details shown are applicable for their specific project. Additional guidance on the usage of these sheets can be found in Bridge Design Details 1-16, "Use of Bridge Standard Detail Sheets".

Send general questions regarding the usage of XS Sheets to "DES Design and Technical Services".

Send technical questions to the applicable Technical Specialist or Technical Manager.

Attachments
(1) Summary of Revisions to Bridge Standard Detail Sheets (XS) from July 2013 through December 2013

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XS Sheet Number	XS Sheet Title	Previous Approvals	Approval Date	Summary of Revisions
xs8-010	Strip Joint Seal Assembly-Maximum Movement Rating = 4"	June 2012	July 2013	**Minor Revisions:** 1. In "STEEL EDGE MEMBER", change the 3" dimension to read "Max 3""
xs8-010	Joint Seal Assembly-Maximum Movement Rating = 4"	July 2013	September 2013	**Minor Revisions:** 1. Remove "dimensions" from "STEEL EDGE MEMBER" detail. 2. Change title "STEEL EDGE MEMBER" to read "SCHEMATIC STEEL EDGE MEMBER" 3. In Note 1, change the word "full" to "complete" 4. In Note 2, change the word "approval" to "authorization" 5. In Note 6, change the word "A325" to "HS" 6. Add Note 9, "Anchor studs shall conform to ASTM 108" 7. Reverse the "degree symbol and the "F" in the formula of sub note "W" located below the Joint Information Table 8. Change titles "FIELD WELD DETAIL" and "SHOP WELD DETAIL" to read "SCHEMATIC FIELD WELD DETAIL" and "SCHEMATIC SHOP WELD DETAIL" 9. Change the sheet title to read "STRIP JOINT SEAL ASSEMBLY" 10. In "SECTION B-B" change the 9" dimension to read 9 ½"
xs8-040	Joint Armor-Expansion Detail-Maximum Movement Rating = 4"	July 2011	July 2013	**Minor Revisions:** 1. "DETAIL A" is introduced to this XS sheet so the Joint Armor would comply with the Americans with Disabilities Act (ADA) requirements
xs8-040	Joint Armor-Expansion Detail-Maximum Movement Rating = 4"	July 2013	September 2013	**Minor Revisions:** 1. Change the wording "BAR ANCHORS" to read "ANCHOR BARS" typical throughout the sheet 2. Change the wording "PL'S" to read "BARS" located within the "SECTION" view and add the sentence "GALVANIZTION NOT REQUIRED" to the call out "BAR 1 ¾ x ¼ x1'-0" within the "PLAN" view of the "TYPICAL JOINT DETAILS" 3. In "DETAIL A" added call out "R= 1/8"" 4. In "PART PLAN EXPANSION ARMOR SKEWED TO GIRDER" change "2 ANCHORS ON ENDS OR EACH ASSEMBLY" to read "2 ANCHORS ON ENDS OF EACH ASSEMBLY" 5. In "DETAIL WITH ANCHOR STUDS"" title, "TYPE

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				A & B" details, cross hatch the checkered bar located on the right side of each detail 6. Change the word "Full" to read "Complete" in Note 1 7. Add note "6. Anchor studs shall comply to ASTM 108." 8. In the table below the notes, change "BAR ANCHOR" AND "STUD ANCHOR" to read "ANCHOR BAR" and "ANCHOR STUD"
xs8-050	Sidewalk Expansion Joint Armor		July 2013	**New Sheet: -** This new XS sheet has been developed that complies with the Americans Disabilities Act (ADA)
xs8-050	Sidewalk Expansion Joint Armor	July 2013	September 2013	**Minor Revisions:** 1. Added "NOTES", "ELEVATION", and "DETAIL B" 2. Replaced existing details with better 3. Added direction of traffic symbol and wording "Direction of Travel"
xs9-030	Steel Laminated Elastomeric Bearings		November 2013	**New Sheet:** 1. New XS sheet that goes along with the MTD-7-1. This XS sheet should be attached to the design plans when elastomeric bearings are used
xs15-130-2	Soldier Pile Wall Lagging Details	July 2011	September 2013	**Minor Revisions:** 1. Changed the wording "CONNECTION DETAILS" to read "ANCHOR BLOCK FOR TRANSITION RAILING CONNECTION DETAIL C" 2. Barrier Section detail: Corrected the typo "TYHPE" to read "TYPE"
xs15-130-1	Masonry Block Sound Wall w/Barrier on Retaining Wall-Details No.1	July 2011	July 2012	**Minor Revisions**
xs16-030-3	California ST-70 Bridge Rail Details No. 3	July 2011	September 2013	**Minor Revisions:** 1. SECTION E-E: Removed "#5 Stirrup" and replaced with "#5 Bundle", "#5 End Cap", and "#5 L Bar" 2. ELEVATION: End block length change from 2'-0" to 5'-0"
xs17-030	CIP Bottomless Culvert Foundation: Piles/Footings on Rock	July 2011 November 2011	October 2013	**Minor Revisions:** 1. TYPICAL REINFORCEMENT: Relocate leader arrow on "C" bar callout; Change footing callout text from "SHEET" to "NOTE 5: Replace broken line type at the 12" fillet at corners callout with a solid line type 2. NOTES: Delete "Sheet 5" from Note #5 and replace with "FOUNDATION DETAILS" sheet

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XS Sheet Number	XS Sheet Title	Previous Approvals	Approval Date	Summary of Revisions
xs17-040	CIP Bottomless Culvert Foundation: Piles/Footings on Soil	October 2011 November 2011	October 2013	**Minor Revisions:** **1.** TYPICAL REINFORCEMENT: Relocate leader arrow on "C" bar callout; Change footing callout text from "SHEET" to "NOTE 5: Replace broken line type at the 12" fillet at corners callout with a solid line type **2.** NOTES: Delete "Sheet 5" from Note #5 and replace with "FOUNDATION DETAILS" sheet
xs17-050-2	CIP Bottomless Culvert: Wall, Slab & Foundation Details	July 2011 November 2011	October 2013	**Minor Revisions:** 1. PLAN VIEW: Change outermost "SOLID LINE T YPE" to a "DASHED LINE TYPE" 2. SECTION A-A: Change footing call out from "(REFER TO SHEET 5 FOR DETAILS)" to read "SEE FOUNDATION DESIGN NOTES #3" 3. ELEVATION VIEW: Lengthen and relocate rebar 4. SECTION C-C: Add #5 stirrup @ 11; Delete chamfer callout "!" Chamfer" and replace with "1" Chamfer (Typ)"; Fillet rest of corners; Reverse transverse rebar to outside of longitudinal rebar; Add height range for parapet as "(1' ≤ h ≤ 3')" 5. SECTION D-D: Lengthen existing "L" shape rebar to transverse bars 6. NOTES: (1) Replace "table on Sheet 1 & 2" with "GENERAL CONFIGURATION" sheet; (2) Replace "Sheet 3" with "GENERAL CONFIGURATION" sheet 7. FOUNDATION NOTES: (2) Replace "center" with "spacing along the center line of footing" and "83-2.02D(1)" with "51"; (3) Replace "Refer Sheet 5" with "For" and add ". see FOUNDATION DETAILS" sheet
xs17-060-1	Corrugated Metal Culvert-Procedures for Invert Repair	July 2011	October 2013	**Minor Revisions:** 1. LRFD NOMINAL SHEAR CAPACITY TABLE: Replace " fc' " with " f'c " 2. Words "FOR ASTM C33 AGGREGATE" in the table title "LRFD NOMINAL SHEAR CAPACITY, KIPS FOR ASTM C33 AGGREGATE" are deleted 3. In the notes section, an "e" was added to the misspelled word "PROCEDURS" to read "PROCEDURES"
xs19-010-1	Curb Ramp Case 1-Details No. 1		August 2013	**New Sheet -** For existing bridge sidewalks to comply with ADA requirements

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XS Sheet Number	XS Sheet Title	Previous Approvals	Approval Date	Summary of Revisions
xs19-010-2	Curb Ramp Case 1-Details No. 2		August 2013	**New Sheet -** For existing bridge sidewalks to comply with ADA requirements
xs19-020-1	Curb Ramp Case 2-Details No. 1		August 2013	**New Sheet-** For existing bridge sidewalks to comply with ADA requirements
xs19-020-2	Curb Ramp Case 2-Details No. 2		August 2013	**New Sheet -** For existing bridge sidewalks to comply with ADA requirements
xs19-030-1	Curb Ramp Case 3-Details No. 1		August 2013	**New Sheet -** For existing bridge sidewalks to comply with ADA requirements
xs19-030-2	Curb Ramp Case 3-Details No. 2		August 2013	**New Sheet -** For existing bridge sidewalks to comply with ADA requirements