

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	5	R12.4/39.6	12	24

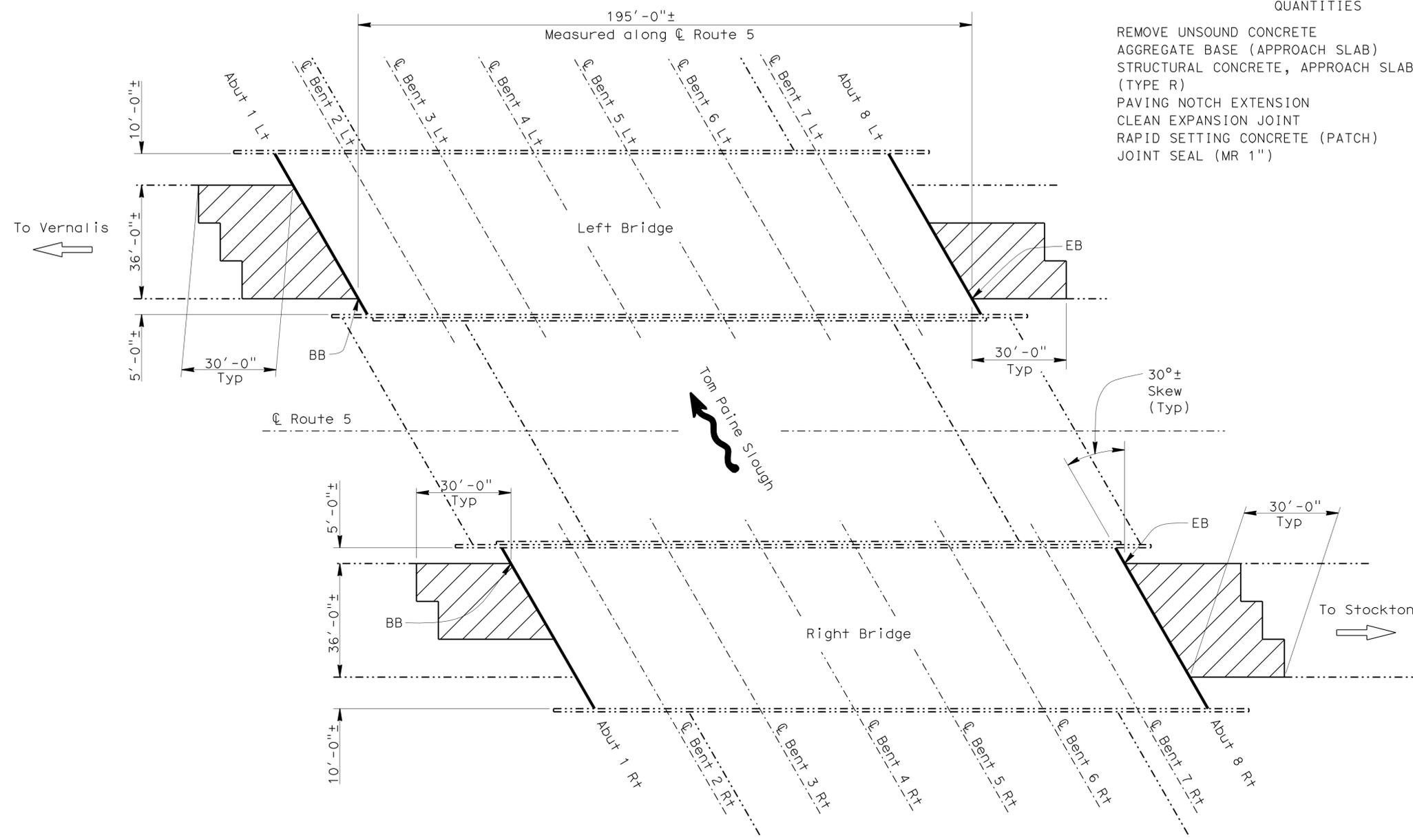
 9-29-10
 REGISTERED CIVIL ENGINEER DATE
 1-31-11
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 Brian P. Nguyen
 No. 68270
 Exp. 9-30-11
 CIVIL
 STATE OF CALIFORNIA

TOM PAINE SLOUGH BR NO. 29-0265L/R

QUANTITIES

REMOVE UNSOUND CONCRETE	2	CF
AGGREGATE BASE (APPROACH SLAB)	15	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	149	CY
PAVING NOTCH EXTENSION	104	CF
CLEAN EXPANSION JOINT	99	LF
RAPID SETTING CONCRETE (PATCH)	2	CF
JOINT SEAL (MR 1")	236	LF



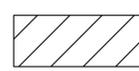
TOM PAINE SLOUGH
 BR. NO. 29-0265L/R, RTE 5, PM R12.39
 1"=20'



INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	JOINT SEAL DETAILS NO. 1
7	JOINT SEAL DETAILS NO. 2
8	JOINT SEAL DETAILS NO. 3
9	JOINT SEAL ASSEMBLY DETAILS (MAXIMUM MOVEMENT RATING MR = 4")
10	FINGER JOINT SEAL DETAILS NO. 1
11	FINGER JOINT SEAL DETAILS NO. 2
12	DRAINAGE DETAILS
13	STRUCTURE APPROACH TYPE R(30D)

Notes:

- Indicates existing structure.
-  Indicates location of joint seal removal and placement of new joint seal. Prior to joint seal replacement, remove unsound concrete and patch joint with rapid setting concrete. For details, see JOINT SEAL DETAILS NO. 1 and JOINT SEAL DETAILS NO. 2 sheets.
-  Indicates limits of remove existing approach pavement and place new Structure Approach Type R(30D). For details, see STRUCTURE APPROACH TYPE R(30D) sheet.

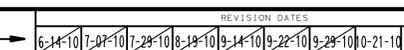


STANDARD PLANS DATED MAY 2006

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 **REVISED PER ADDENDUM No. 1 DATED MARCH 30, 2011**

 9-29-10 DESIGN ENGINEER	DESIGN	BY Brian Nguyen	CHECKED Michael J. Lee	LAYOUT	BY Trung Lam	CHECKED Brian Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5 BRIDGES GENERAL PLAN NO. 1		
	DETAILS	BY Trung Lam	CHECKED Michael J. Lee	SPECIFICATIONS	BY Mary Kopsa	CHECKED Mary Kopsa			VARIOUS			
QUANTITIES	BY Brian Nguyen	CHECKED Michael J. Lee						POST MILE				
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 10 EA OU5801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 	SHEET 1 OF 13

USERNAME => H:\engr\ DATE PLOTTED => 28-MAR-2011 TIME PLOTTED => 11:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	5	R12.4/39.6	14	24

9-29-10
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REGISTERED PROFESSIONAL ENGINEER
 Brian P. Nguyen
 No. 68270
 Exp. 9-30-11
 CIVIL
 STATE OF CALIFORNIA

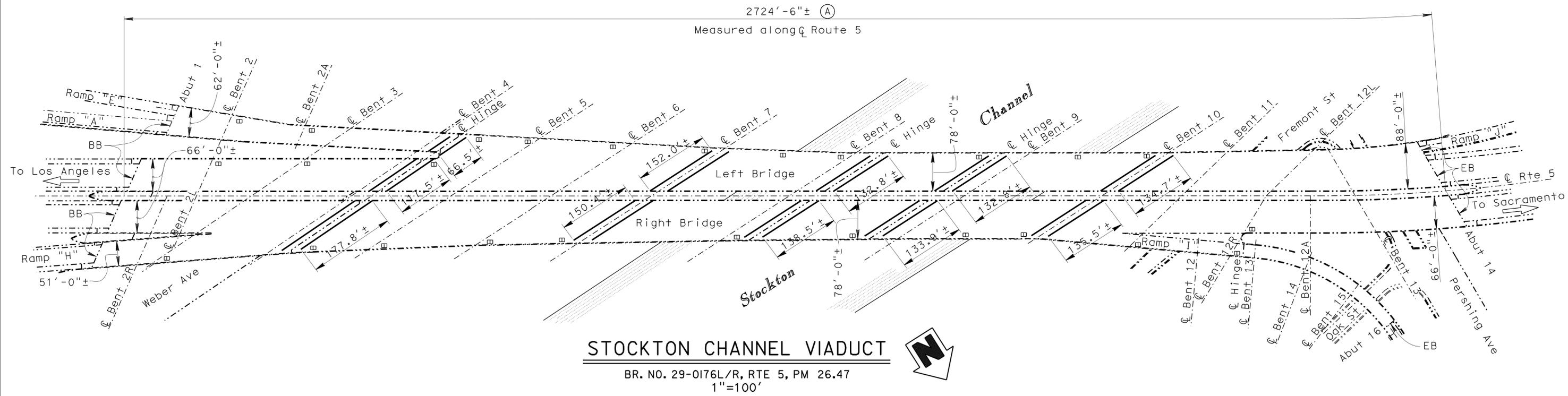
STOCKTON CHANNEL VIADUCT BR NO. 29-0176L/R

QUANTITIES

REMOVE UNSOUND CONCRETE	2,690	5,300	CF
CLEAN BRIDGE DECK DRAINAGE SYSTEM	1,520		LF
BRIDGE REMOVAL (PORTION), LOCATION B		LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	165	52	CY
CLEAN EXPANSION JOINT		4	LF
RAPID SETTING CONCRETE (PATCH)	2,690	5,300	CF
JOINT SEAL ASSEMBLY (MR 1/2 6")		538	LF
JOINT SEAL ASSEMBLY (MR 9")		935	LF
JOINT SEAL (TYPE AL)		4	LF
BAR REINFORCING STEEL (BRIDGE)	35,300	24,123	LB
MISCELLANEOUS METAL (BRIDGE)		20	LB



- Notes:
- Indicates existing structure.
 - ==== Indicates location of finger joint seal removal and placement of new joint seal assembly. For details, see JOINT SEAL DETAILS NO. 1, NO. 3 and FINGER JOINT SEAL DETAILS NO.1, NO. 2, NO. 3, and JOINT SEAL ASSEMBLY DETAILS sheets.
 - Indicates location of clean and unplug all 1'x3' Grate Drains. Clean and unplug all existing finger joint seals at shoulders. Clean all drainage pipes. For details, see DRAINAGE DETAILS sheet.
 - (A) Indicates limits of remove unsound concrete and patch with rapid setting concrete. Location to be determined by the Engineer. For details, see "DECK REPAIR" on JOINT SEAL DETAILS NO. 2 sheet.



STOCKTON CHANNEL VIADUCT
 BR. NO. 29-0176L/R, RTE 5, PM 26.47
 1"=100'

NOTE:
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1 REVISED PER ADDENDUM No. 1 DATED MARCH 30, 2011

 9-29-10 DESIGN ENGINEER	DESIGN	BY Brian Nguyen	CHECKED Michael J. Lee	LAYOUT	BY Trung Lam	CHECKED Brian Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 5 BRIDGES GENERAL PLAN NO. 3
	DETAILS	BY Trung Lam	CHECKED Michael J. Lee	SPECIFICATIONS	BY Mary Kopsa	CHECKED Mary Kopsa			POST MILE	VARIES	
	QUANTITIES	BY Brian Nguyen	CHECKED Michael J. Lee	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 10 EA OU5801			REVISION DATES	6-14-10 7-07-10 7-28-10 8-19-10 8-23-10 9-22-10 9-28-10 10-21-10	
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							FILE => 10-0u5801_03_gp3.add	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 3 OF 13	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	5	R12.4/39.6	17	24

9-29-10
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Brian P. Nguyen
 No. 68270
 Exp. 9-30-11
 CIVIL
 STATE OF CALIFORNIA

JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (inches)	MR Normal to 57°± skew	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (inches)	APPROXIMATE DEPTH OF JOINT SPALLS (inches)*	APPROXIMATE WIDTH OF JOINT SPALLS (inches)*	APPROXIMATE LENGTH OF JOINT SPALLS (FEET) *
TOM PAINE SLOUGH	29-0265L	Abut 1	PN	1		59.0	No	12.0	3.0	5.0
		Abut 8	PN	1		59.0	No	12.0	3.0	5.0
TOM PAINE SLOUGH	29-0265R	Abut 1	PN	1		59.0	No	12.0	3.0	5.0
		Abut 8	PN	1		59.0	No	12.0	3.0	5.0
N&S5-E4 CONNECTOR UC	29-0239H	Abut 1	PN	1		79.0	No	12.0	3.0	5.0
		Abut 2	PN	1		92.0	No	12.0	3.0	5.0
STOCKTON CHANEL VIADUCT	29-0176L/R	Hinge	B4	4 1/2 ☆☆	9	362.0	Yes	12.0	—	—
		Bent 7	℄	4 1/2 ☆☆	9	303.0	Yes	12.0	—	—
		Hinge	B8	2 ☆	↗ 6	272.0	Yes	12.0	—	—
		Hinge	B9	2 ☆	↗ 6	267.0	Yes	12.0	—	—
		Bent 10	℄	4 1/2 ☆☆	9	270.0	Yes	12.0	—	—
BEAR CREEK	29-0177L	Abut 1	PN	1		53.0	Yes	12.0	3.0	5.0
		Abut 7	PN	1		53.0	Yes	12.0	3.0	5.0
THORNTON ROAD CONN UC	29-0254L	Abut 1	PN	1/2		51.0	Yes	12.0	3.0	10.0
		Abut 2	PN	1/2		51.0	Yes	12.0	3.0	10.0
THORNTON ROAD CONN UC	29-0254R	Abut 1	PN	1/2		51.0	Yes	12.0	3.0	10.0
		Abut 2	PN	1/2		51.0	Yes	12.0	3.0	10.0
ROUTE 5/12 SEPARATION	29-0255L	Abut 1	PN	1		72.0	No	12.0	3.0	5.0
		Abut 3	PN	1		72.0	Yes	12.0	3.0	5.0
ROUTE 5/12 SEPARATION	29-0255R	Abut 1	PN	1		2.0	Yes	12.0	—	—

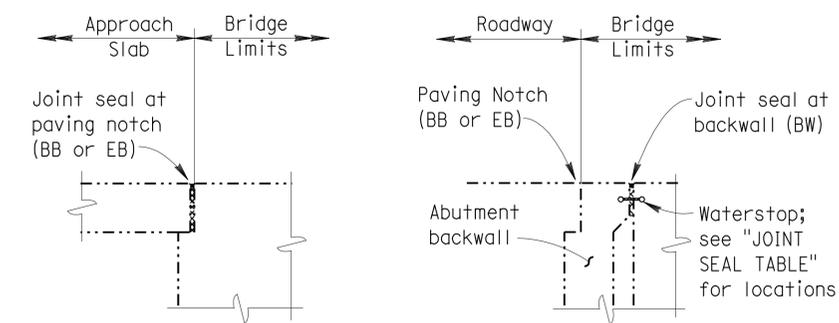
The following note applies to JOINT SEAL TYPE A:

Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches curb or rail joint. For details not shown see 

The following notes apply to JOINT SEAL TYPE B:

- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
- W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
- Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
- For details not shown see 

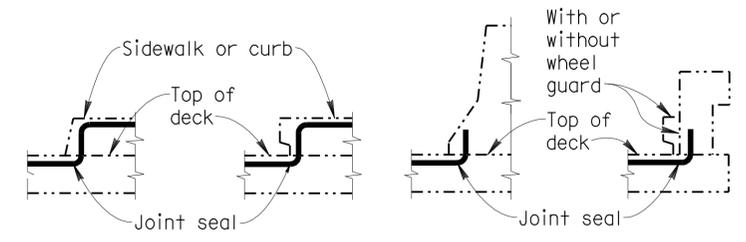
LEGEND:
 BW = Backwall
 PN = Paving Notch
 * = Location to be determined by the Engineer.
 See "DECK & JOINT REPAIR DETAIL" on JOINT SEAL DETAILS NO. 2 sheet.
 ☆ Use ~~Strip~~ Modular Expansion Joint Seal Assembly (MR = 6")
 ☆☆ Use Modular Expansion Joint Seal Assembly (MR = 9")



DIAPHRAGM ABUTMENT **ABUTMENT WITH BACKWALL**

JOINT SEAL LOCATION

NO SCALE



SIDEWALK OR CURB **BARRIER RAIL**

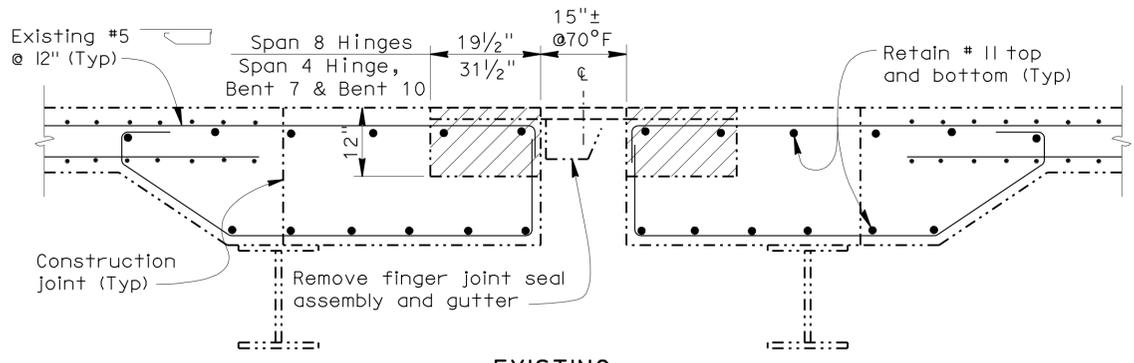
JOINT SEAL AT LOW SIDE OF DECK

Details shown for illustration purposes only. For use only where deck joint matches the barrier rail joint.
 NO SCALE

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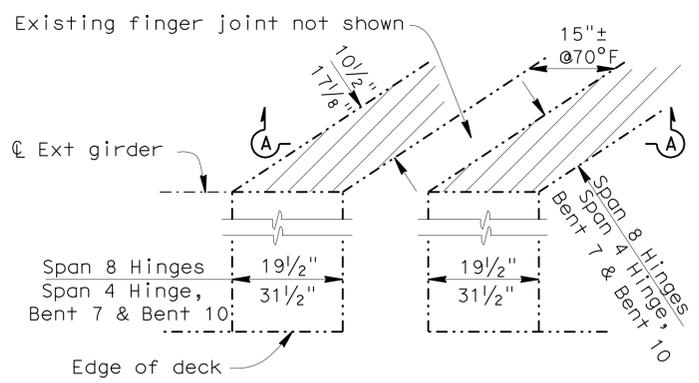
1 **REVISED PER ADDENDUM No. 1 DATED MARCH 30, 2011**

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)	DESIGN	BY Brian Nguyen	CHECKED Michael J. Lee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 5 BRIDGES										
	DETAILS	BY Trung Lam	CHECKED Brian Nguyen			POST MILE	VARIES		JOINT SEAL DETAILS NO. 1									
	QUANTITIES	BY Brian Nguyen	CHECKED Michael J. Lee			VARIES												
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 10 EA OU5801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <td>6-14-10</td> <td>7-07-10</td> <td>7-28-10</td> <td>8-19-10</td> <td>8-23-10</td> <td>9-07-10</td> <td>9-14-10</td> <td>9-22-10</td> <td>9-29-10</td> <td>10-21-10</td> </tr> </table>	6-14-10	7-07-10	7-28-10	8-19-10	8-23-10	9-07-10	9-14-10	9-22-10	9-29-10	10-21-10	SHEET 6 OF 13
6-14-10	7-07-10	7-28-10	8-19-10	8-23-10	9-07-10	9-14-10	9-22-10	9-29-10	10-21-10									



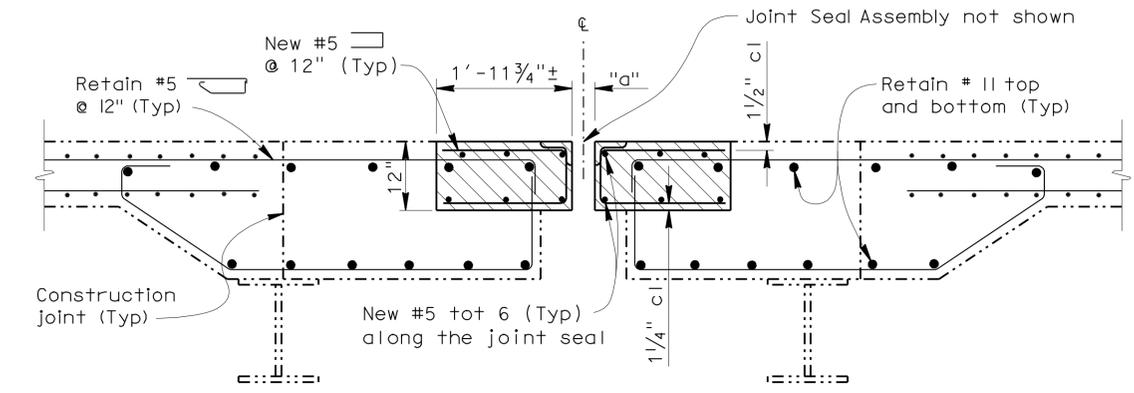
EXISTING
SECTION A-A AT HINGES AND BENTS

3/4" = 1'



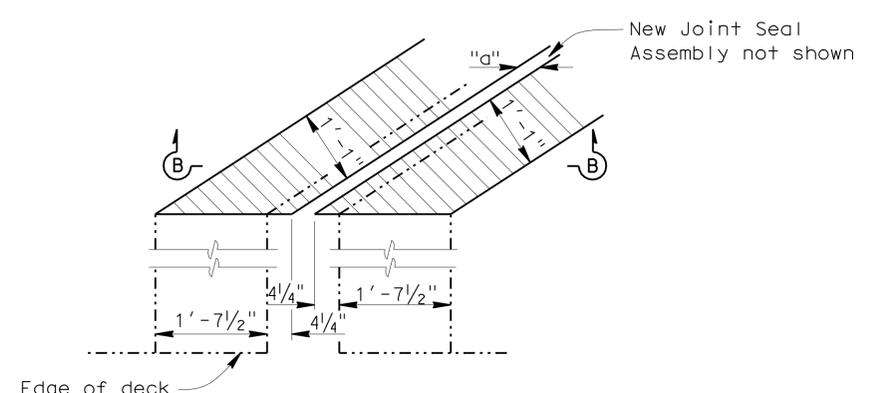
PARTIAL PLAN - DECK JOINT HINGES & BENTS

3/4" = 1'



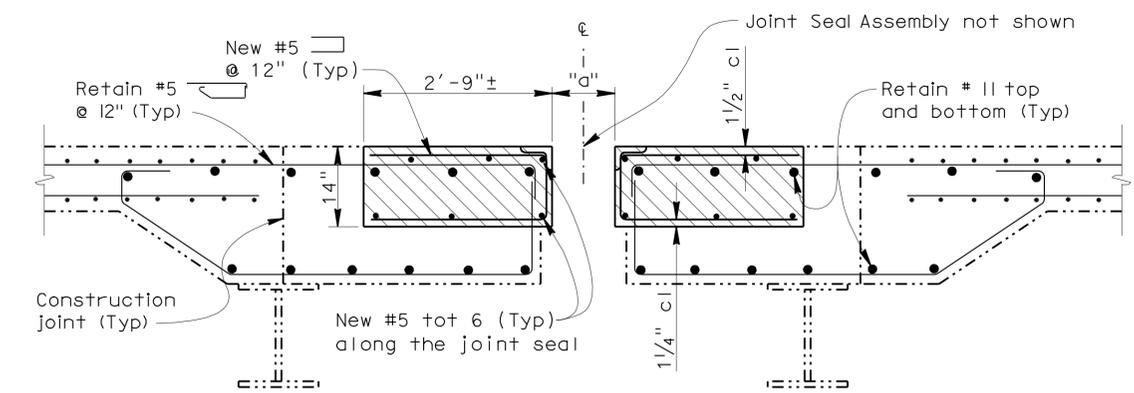
RECONSTRUCTION
SECTION B-B AT SPAN 8 HINGES

3/4" = 1'



PARTIAL PLAN - DECK JOINT SPAN 8 HINGES

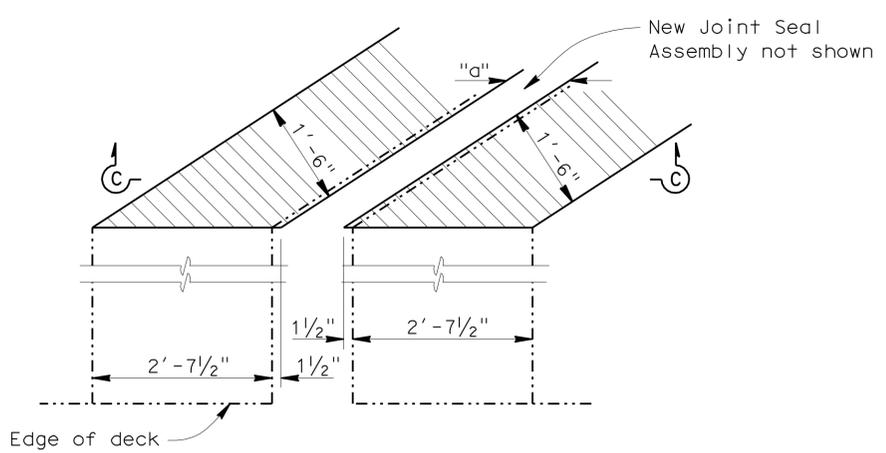
3/4" = 1'



RECONSTRUCTION
SECTION C-C AT SPAN 4 HINGE, BENT 7, & BENT 10

3/4" = 1'

BRIDGE NO. 29-0176L/R



PARTIAL PLAN - DECK JOINTS SPAN 4 HINGE, BENT 7 & BENT 10

3/4" = 1'

TEMPORARY DECK PLATE DESIGN LOADING		
MOMENT DEMAND/FOOT (kip-ft/ft)	ANCHOR BOLT SHEAR/FOOT (kip/ft)	ANCHOR BOLT TENSION (kip)
11.2	8.0	8.0

Plate deflection shall not exceed $s/300$ (s = span of plate). Maximum anchor bolt spacing = 0'-9".
For Temporary Deck Plate Detail, see JOINT SEAL DETAILS NO. 2 sheet.

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove existing concrete and finger joint seal assembly. Retain existing reinforcing steel and reposition as required. For details, see FINGER JOINT SEAL DETAILS NO. 1 and FINGER JOINT SEAL DETAILS NO. 2 sheets.
 - Indicates limits of new joint seal assembly and placement of new Structural concrete.
 - "a" Exact width to be determined by the Engineer.

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1 REVISED PER ADDENDUM No. 1 DATED MARCH 30, 2011

DESIGN	BY Brian Nguyen	CHECKED Michael J. Lee
DETAILS	BY Trung Lam	CHECKED Brian Nguyen
QUANTITIES	BY Brian Nguyen	CHECKED Michael J. Lee

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 5 BRIDGES
JOINT SEAL DETAILS NO. 3