

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS AND PAVEMENT DELINEATION QUANTITIES
3-7	REVISED AND NEW STANDARD PLANS

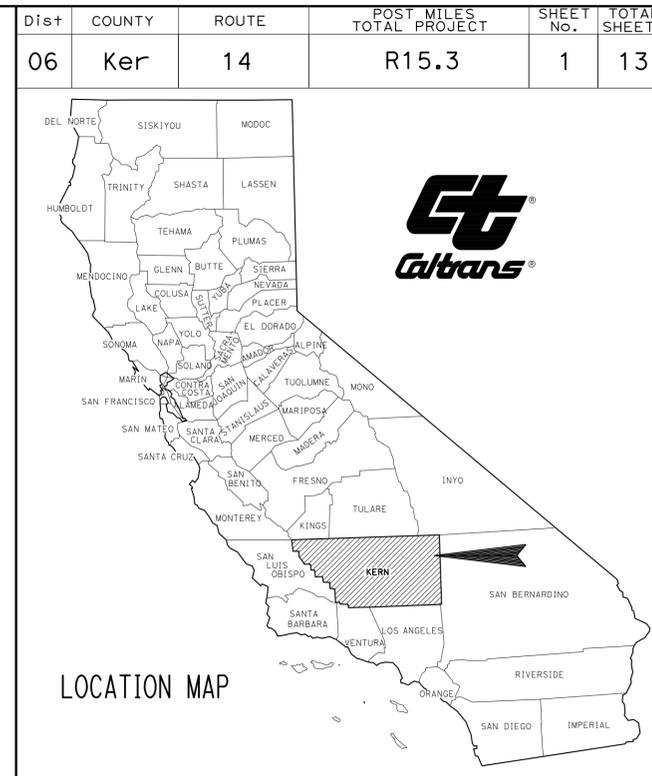
STRUCTURE PLANS

8-13 SOUTH MOJAVE OVERHEAD Br No. 50-0402R

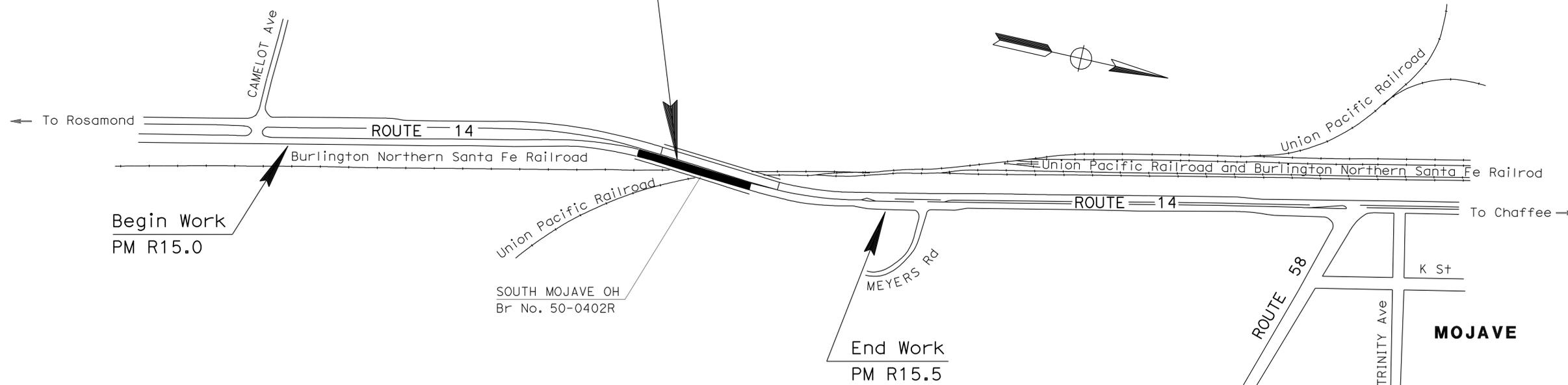
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN KERN COUNTY**  
**IN MOJAVE**  
**AT SOUTH MOJAVE OVERHEAD**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



**LOCATION OF CONSTRUCTION**  
**PM R15.3**



NO SCALE

PROJECT MANAGER  
**BILL MOSES**  
 DESIGN ENGINEER  
**FRANK GONZALEZ**

9/14/11  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER  
**January 17, 2012**  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
**SHUE XAIXA VUE**  
 No. 63657  
 Exp. 9-30-12  
 CIVIL  
 STATE OF CALIFORNIA

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

CONTRACT No.	<b>06-OK4504</b>
PROJECT ID	<b>0600020109</b>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	14	R15.3	2	13

 9-14-11  
 REGISTERED CIVIL ENGINEER DATE

1-17-12  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 SHUE XAIXA VUE  
 No. 63657  
 Exp. 9-30-12  
 ELECTRICAL  
 STATE OF CALIFORNIA

### STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

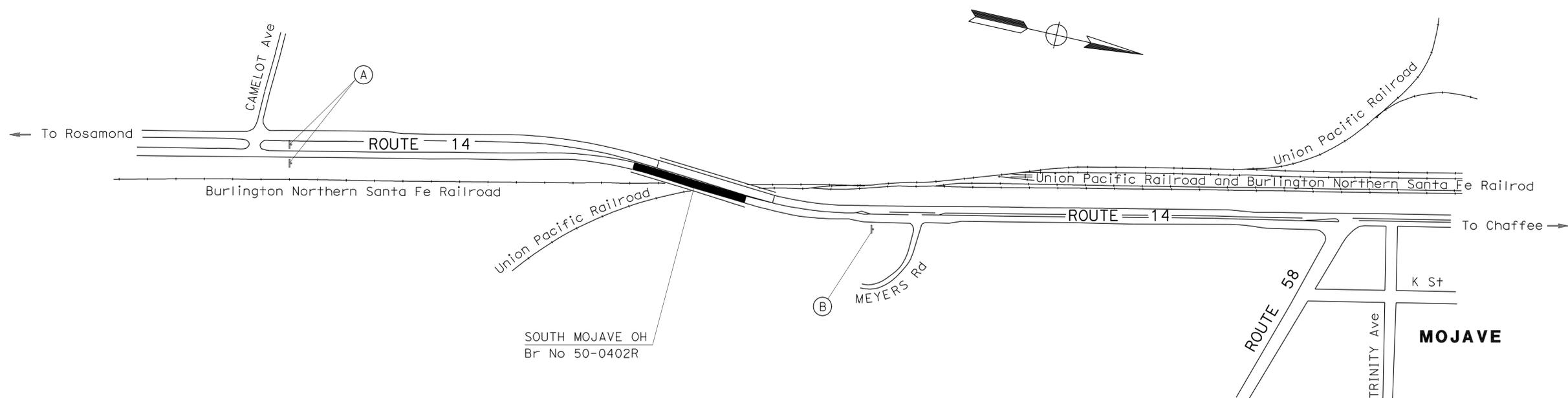
	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-1	48" x 48"	ROAD WORK AHEAD	2- 4" x 6"	2
(B)	G20-2	36" x 18"	END ROAD WORK	1- 4" x 4"	1

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

### PAVEMENT DELINEATION QUANTITIES

BRIDGE NAME	BRIDGE No.	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKER (RETROREFLECTIVE)		REMOVE PAVEMENT MARKER *(N)
			4" (BROKEN 36 - 12)	4"	TYPE		
					G	H	
SOUTH MOJAVE OH	50-0402R	12	180	LF	EA	EA	30
		27B		LF		EA	
		25		LF			EA
TOTAL			180	1368			60

\*(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.



### CONSTRUCTION AREA SIGNS AND PAVEMENT DELINEATION QUANTITIES

NO SCALE

CS-1

EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ELECTRICAL DESIGN  
 TONY VAZQUEZ  
 SHUE X. VUE  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 FUNCTIONAL SUPERVISOR  
 FRANK GONZALEZ

DATE PLOTTED => 19-JAN-2012    TIME PLOTTED => 09:42  
 LAST REVISION    5-26-11

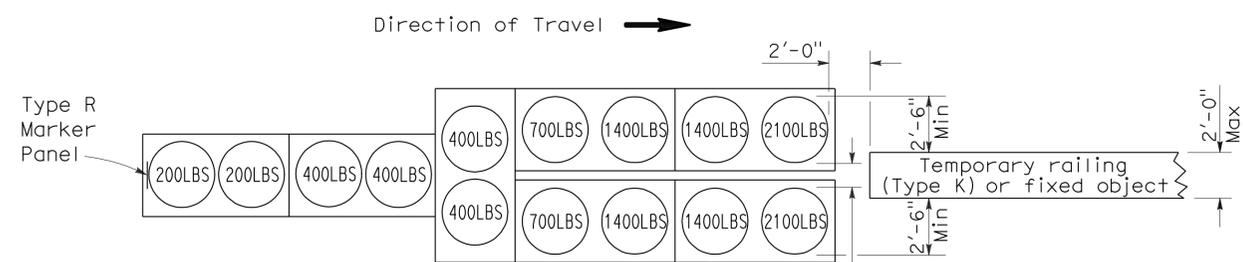
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Ker	14	R15.3	3	13

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

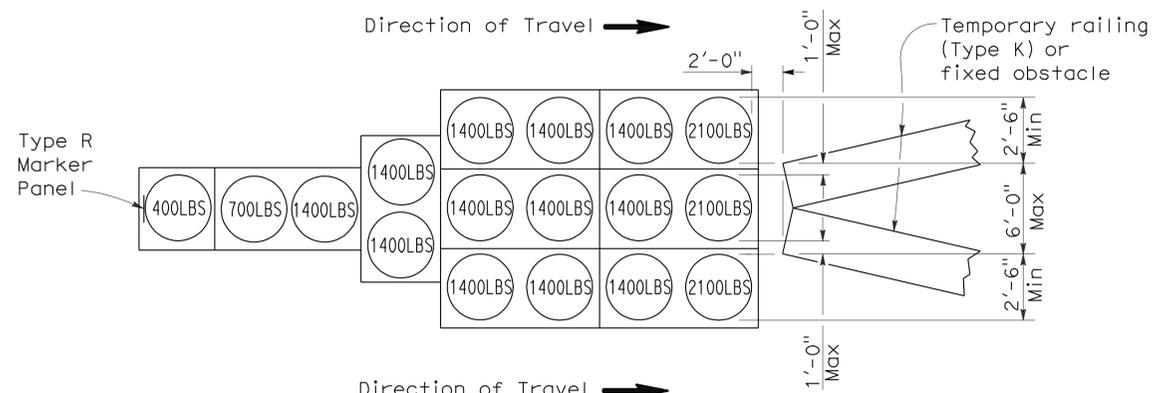
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 1-17-12



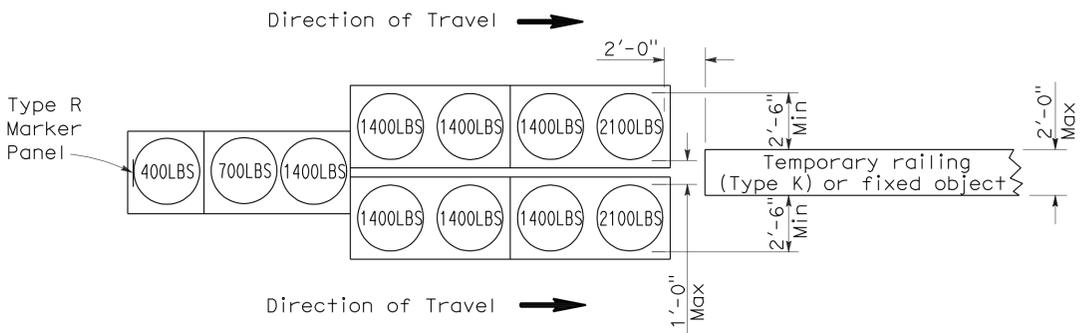
**ARRAY 'TU14'**

Approach speed 45 mph or more



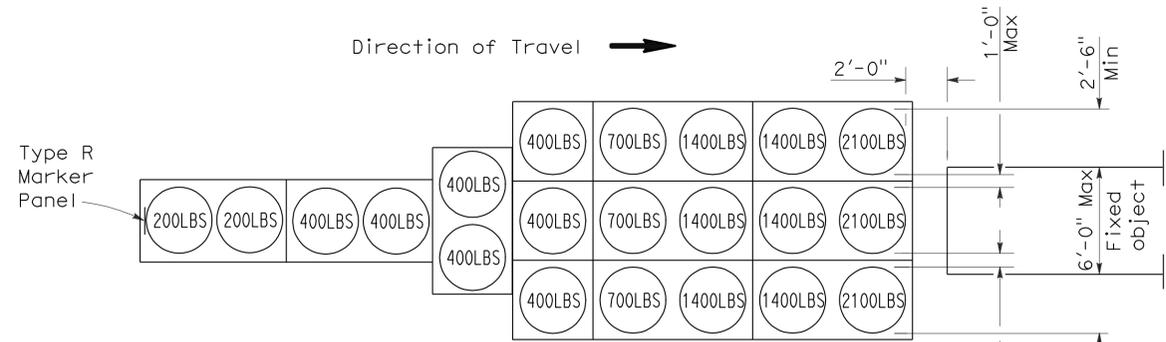
**ARRAY 'TU17'**

Approach speed less than 45 mph



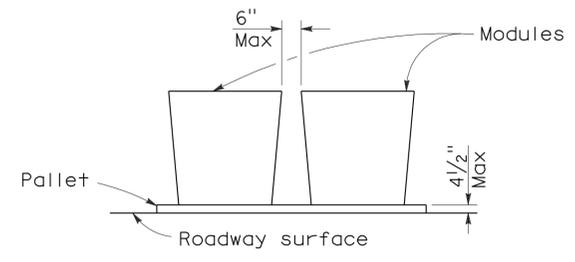
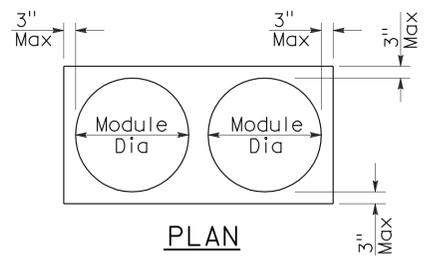
**ARRAY 'TU11'**

Approach speed less than 45 mph



**ARRAY 'TU21'**

Approach speed 45 mph or more



**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A  
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1A**

2006 REVISED STANDARD PLAN RSP T1A

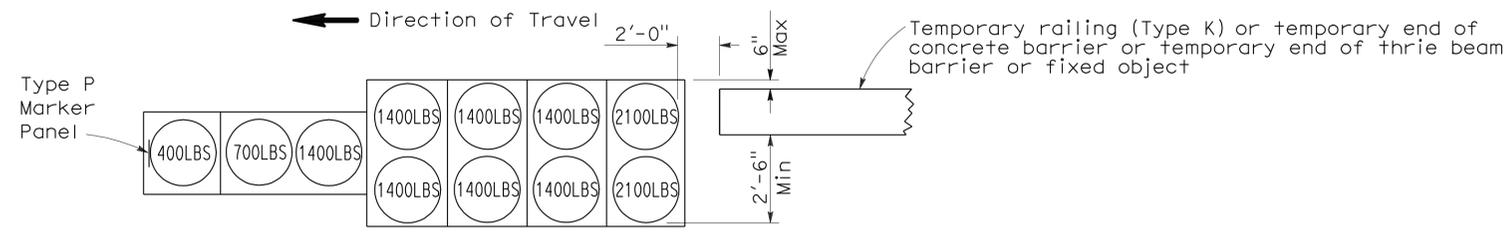
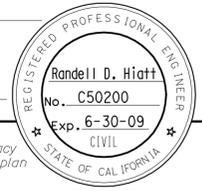
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Ker	14	R15.3	4	13

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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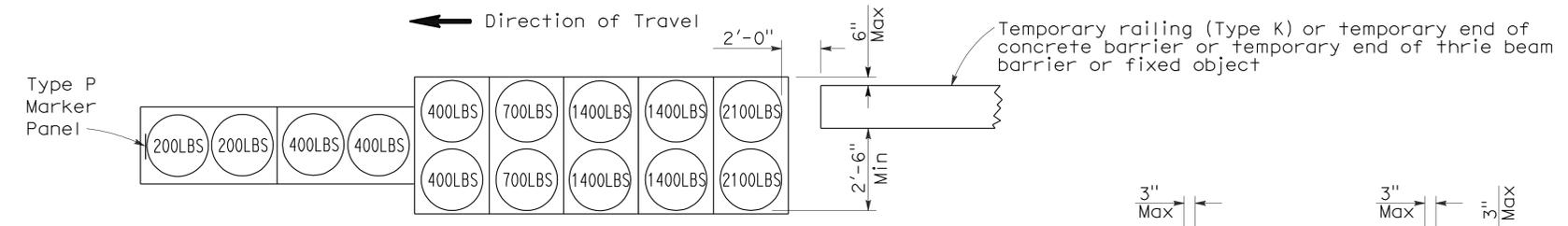
To accompany plans dated 1-17-12



Direction of Travel →

**ARRAY 'TB11'**

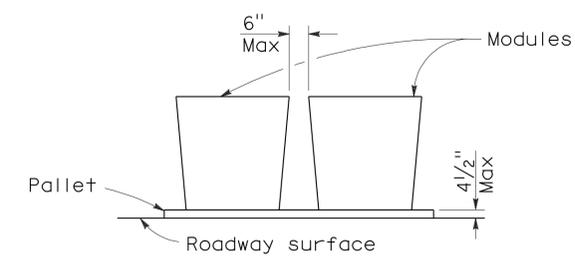
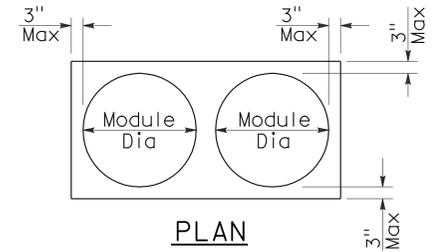
Approach speed less than 45 mph



Direction of Travel →

**ARRAY 'TB14'**

Approach speed 45 mph or more



**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B  
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

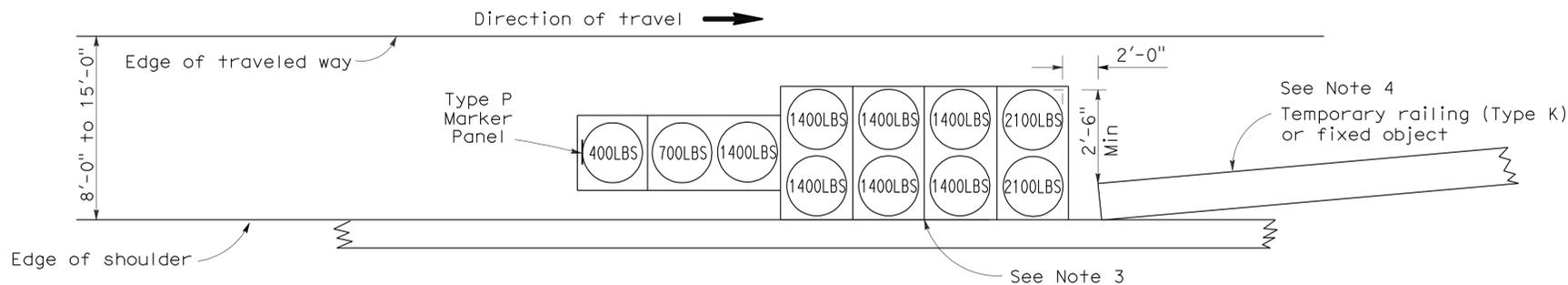
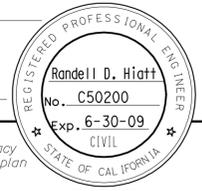
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Ker	14	R15.3	5	13

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

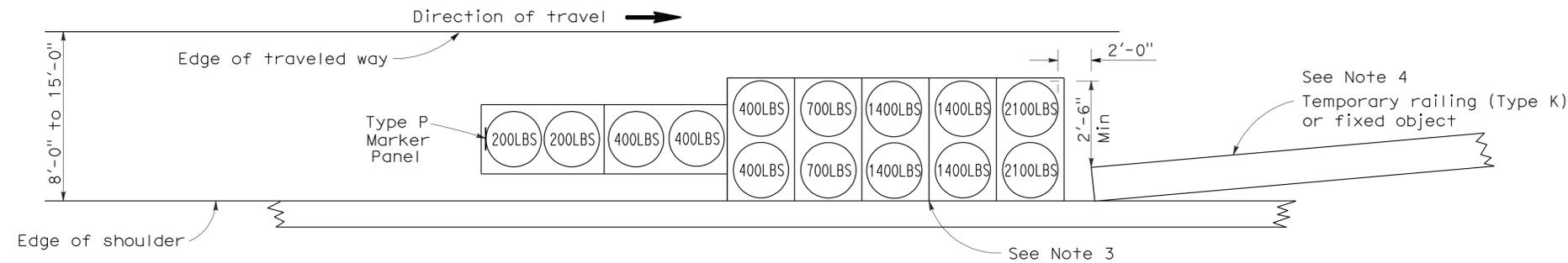
June 6, 2008  
PLANS APPROVAL DATE

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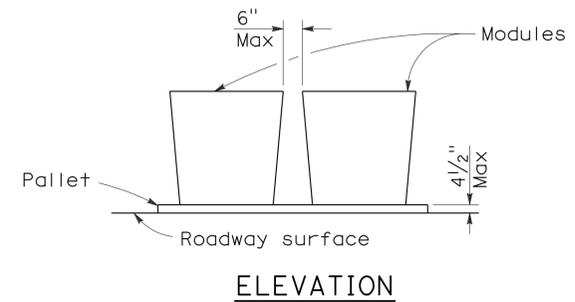
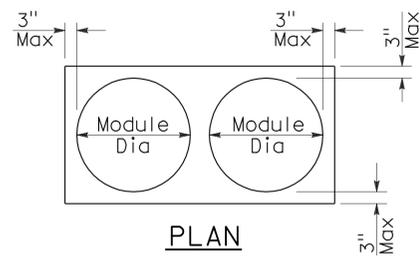
To accompany plans dated 1-17-12



**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



**ARRAY 'TS14'**  
Approach speed 45 mph or more  
See Note 9



**CRASH CUSHION PALLET DETAIL**  
See Note 11

**NOTES:**

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**

NO SCALE  
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2  
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	14	R15.3	6	13

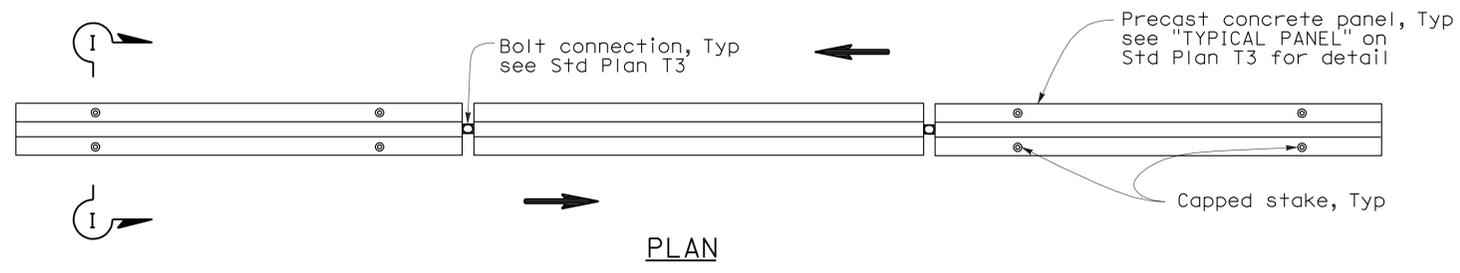
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

May 20, 2011  
PLANS APPROVAL DATE

*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-11  
CIVIL  
STATE OF CALIFORNIA

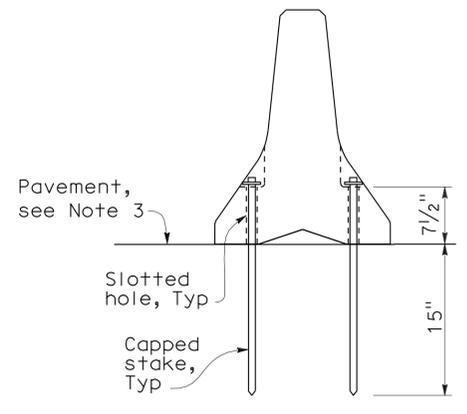
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1-17-12



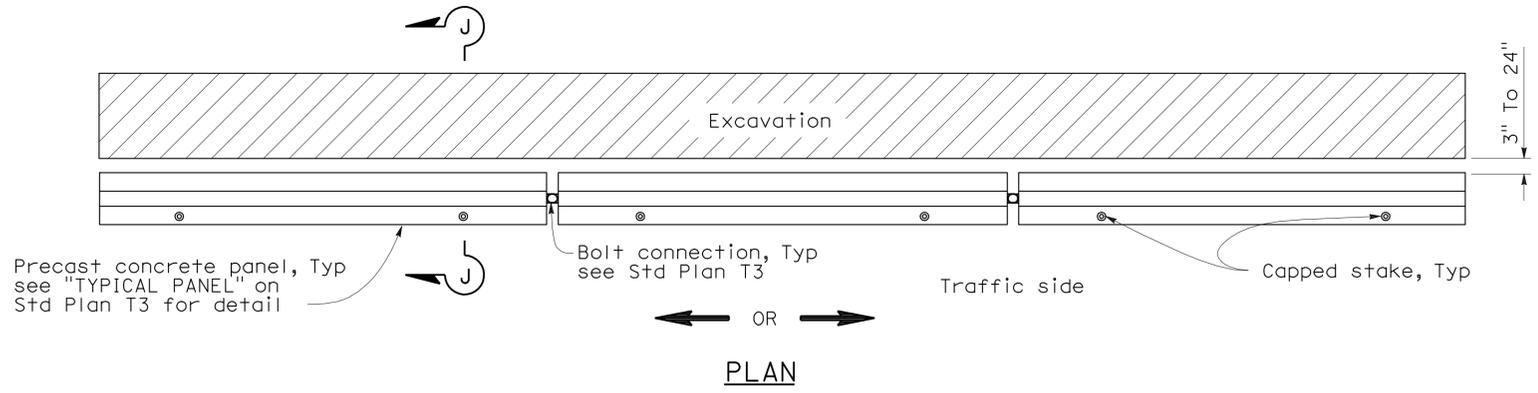
**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**

See Note 1



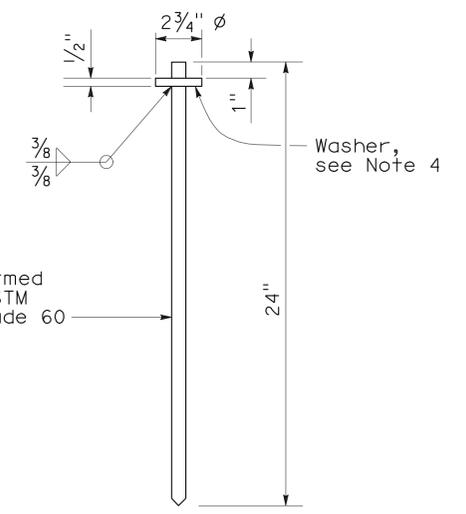
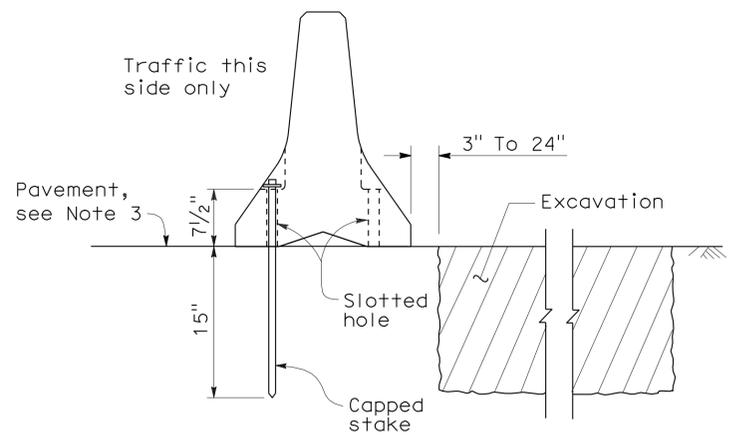
**NOTES:**

1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by  $\Rightarrow$ .



**RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION**

See Note 2



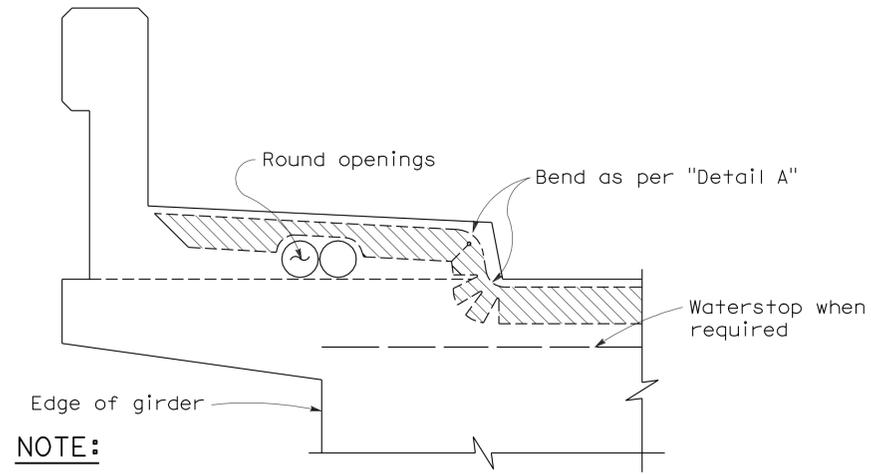
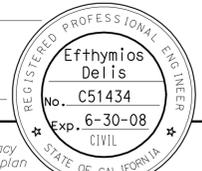
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY RAILING  
(TYPE K)**

NO SCALE

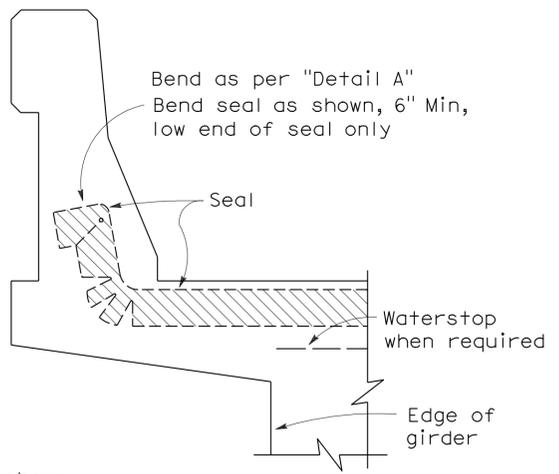
NSP T3A DATED MAY 20, 2011 SUPPLEMENTS  
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T3A

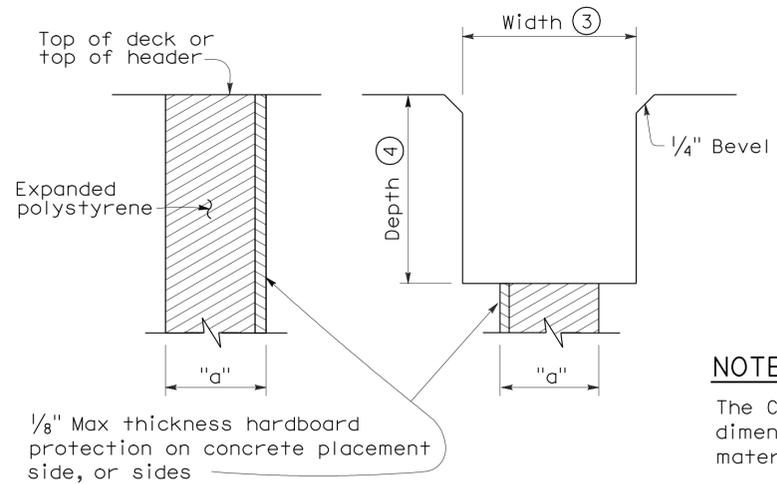


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



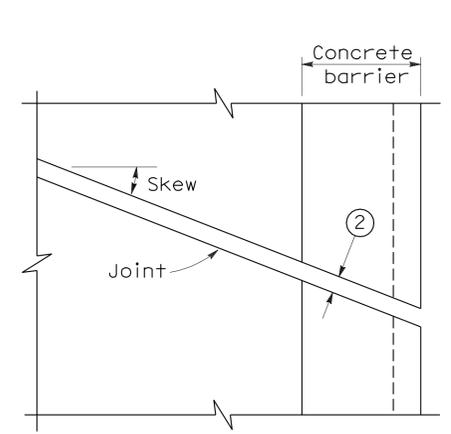
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

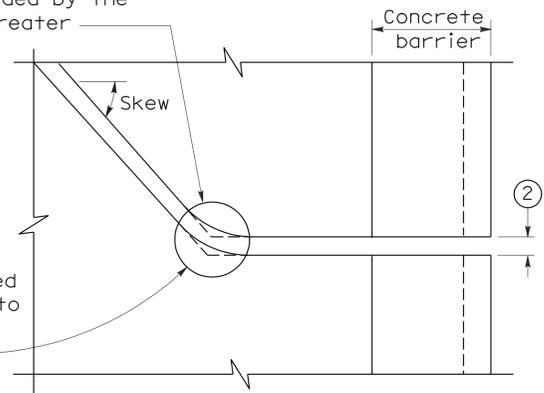
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



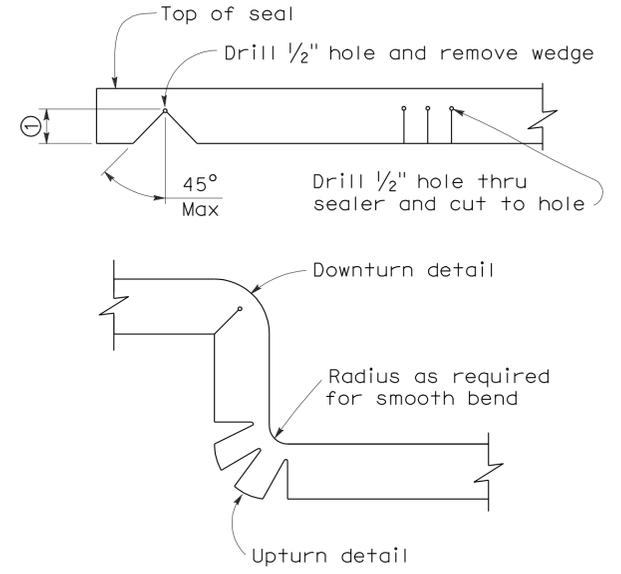
**PLAN OF JOINT (SKEW ≤ 20°)**

Min  $\phi$  radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



**PLAN OF JOINT (SKEW > 20°)**

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



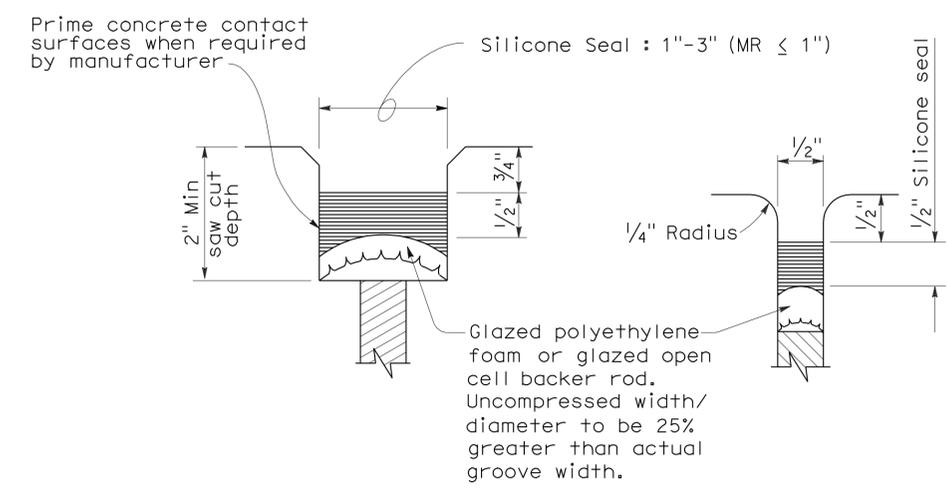
**DETAIL A**

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
  - Opening in barrier to match width of sawn deck joint.
  - Sawcut groove widths shall be as ordered by the Engineer.
  - Depth of sawcut: Type A - Depth to be 2" minimum.  
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W<sub>2</sub>) plus dimensions shown.
  - MR (movement rating) as shown on other plan sheets.
  - Other depths must be approved by the Engineer.

**DIMENSIONS "a" OF JOINT REQUIRED**

Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**JOINT SEALS**  
**(MAXIMUM MOVEMENT RATING = 2")**  
 NO SCALE

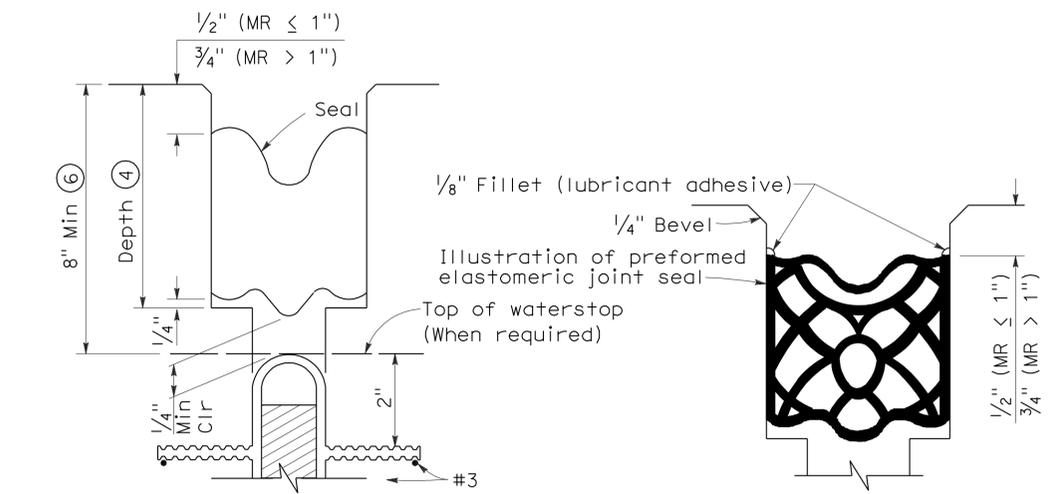


**TYPE A SEAL**

Movement rating : Silicone = 1" Max

**TYPE AL SEAL**

Longitudinal joints only



**TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W<sub>2</sub>)**

**TYPE B SEAL**

Movement Rating ≤ 2"

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

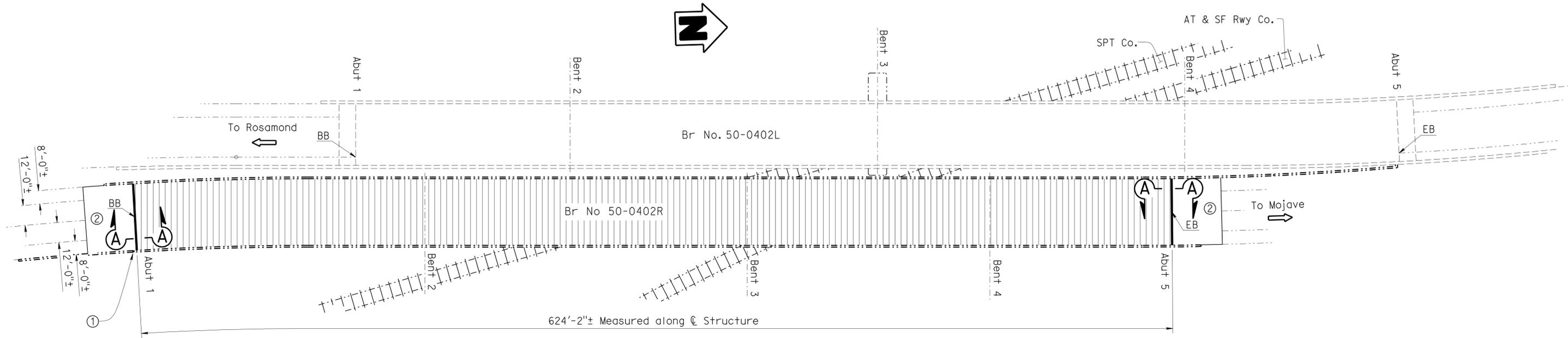
**REVISED STANDARD PLAN RSP B6-21**

2006 REVISED STANDARD PLAN RSP B6-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Ker	14	R15.3	8	13

Heidi Kuntz  
 REGISTERED CIVIL ENGINEER DATE 8-16-11  
 1-17-12  
 PLANS APPROVAL DATE  
 No. C62489  
 Exp. 9-30-11  
 CIVIL  
 STATE OF CALIFORNIA  
 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.

NOTE: ( APPLY TO ALL SHEETS )  
 ----- Indicates existing.



PLAN  
 1" = 30'

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of remove AC surfacing, prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Deck Repair Detail - Overlay" on "JOINT SEAL DETAILS" sheet.

Indicates location of existing joint seal removal and placement of new joint seal.

- For "Section A-A", see "JOINT SEAL DETAILS No. 1" sheet.
- ① - Repair vertical joint seal between retaining wall and abutment. For details, see "JOINT SEAL DETAILS No. 3" sheet.
- ② - Indicates Structure Approach Type R(30S).

QUANTITIES

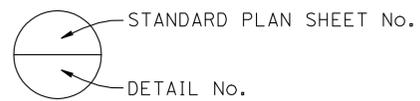
REMOVE ASPHALT CONCRETE SURFACING	24,970	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	24,970	SQFT
BRIDGE REMOVAL (PORTION)	LUMP	SUM
SLURRY CEMENT BACKFILL	1	CY
AGGREGATE BASE (APPROACH SLAB)	9	CY
STRUCTURAL CONCRETE, BRIDGE	3	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	92	CY
FURNISH POLYESTER CONCRETE OVERLAY	2,293	CF
PLACE POLYESTER CONCRETE OVERLAY	24,970	SQFT
BONDED JOINT SEAL (MR 2 1/2")	10	LF
JOINT SEAL ASSEMBLY (MR 2 1/2")	81	LF
BAR REINFORCING STEEL (BRIDGE)	385	LB
CONCRETE BARRIER RAILING (TYPE 9)	7	LF

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN
2	JOINT SEAL DETAILS No. 1
3	JOINT SEAL DETAILS No. 2
4	JOINT SEAL DETAILS No. 3
5	JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4")
6	STRUCTURE APPROACH TYPE R(30S)

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 SEAL (MAXIMUM MOVEMENT RATING = 2")



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

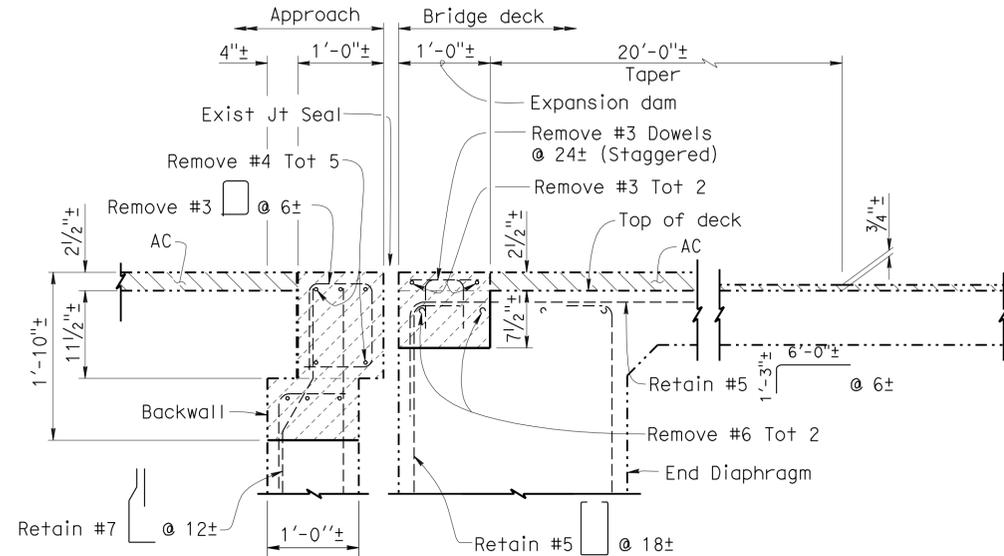
 DESIGN ENGINEER 8-16-11	DESIGN	BY Heidi Kuntz	CHECKED Matt Lee	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	50-0402R	SOUTH MOJAVE OVERHEAD GENERAL PLAN			
	DETAILS	BY Dale Kubochi	CHECKED Matt Lee	LAYOUT	BY Dale Kubochi			POST MILE	R15.30				
	QUANTITIES	BY Heidi Kuntz	CHECKED Matt Lee	SPECIFICATIONS	BY Heidi Kuntz			PLANS AND SPECS COMPARED	REVISION DATES		<table border="1"> <tr> <td>3-16-11</td> <td>8-16-11</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	3-16-11	8-16-11
3-16-11	8-16-11												

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 06 EA OK4501 DISREGARD PRINTS BEARING EARLIER REVISION DATES 1 6

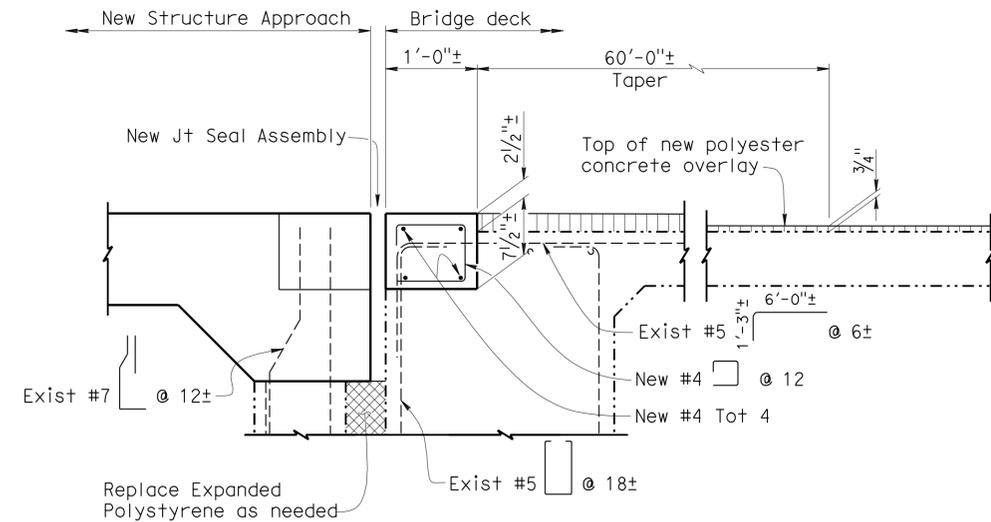
# JOINT SEAL TABLE

BRIDGE NUMBER	LOCATION	MINIMUM "MR" (in)	APPROXIMATE LENGTH (Ft)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (in)
50-0402R	Abut 1	BW	2 1/2	No	---
		V	2 1/2	No	---
	Abut 5	BW	2 1/2	No	---

LEGEND: BW = Abutment backwall joint  
V = Vertical



## EXISTING

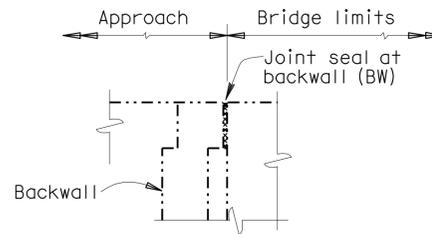


## RECONSTRUCTION

### SECTION A-A

1"=1'-0"

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



## ABUTMENT WITH BACKWALL JOINT SEAL LOCATION

## GENERAL NOTES LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS  
(1996 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.  
LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE:  $f_y = 60,000$  psi  
 $f'_c = 4,000$  psi  
 $n = 9$

TEMPORARY DECK PLATE LOAD CRITERIA		
MOMENT DEMAND/FOOT (kips-ft/ft)	BOLT SHEAR/FOOT (kips/ft)	BOLT TENSION (kips) / bolt
11	1.5	4

Plate deflection shall not exceed  $s/12$  inches ( $s$  = span of plate).  
Maximum anchor bolt spacing = 1'-0".

### NOTES:



Indicates limits of remove AC Surfacing



Indicates limits of bridge removal (portion)



Indicates limits of remove AC surfacing, prepare concrete bridge deck surface, furnish and place new 3/4" minimum to 2 1/2" maximum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on "Deck Repair Detail - Overlay".

- Reinforcement may be adjusted for installation of Joint Seal Assembly as approved by the Engineer.

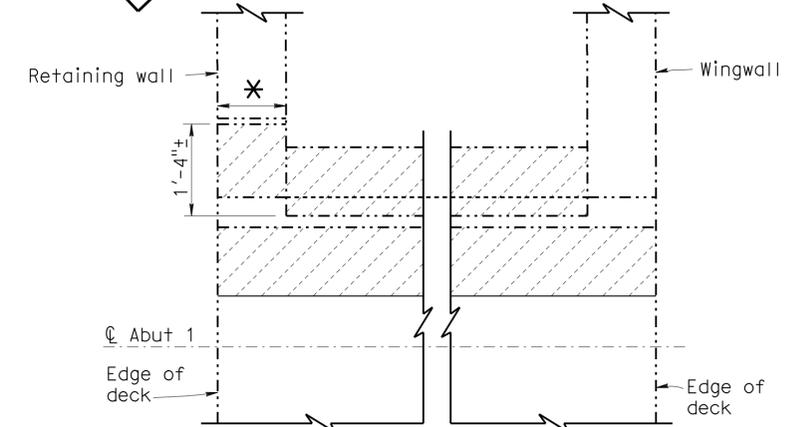
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Ker	14	R15.3	9	13

Heidi Kuntz  
REGISTERED CIVIL ENGINEER  
8-16-11 DATE

1-17-12  
PLANS APPROVAL DATE

Heidi Kuntz  
No. C62489  
Exp. 9-30-11  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
STATE OF CALIFORNIA

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## PART PLAN

3/4"±=1'-0"

### Notes:

- Abut 1 shown, Abut 5 similar.
- Existing barrier railing and AC not shown for clarity.
- \* - Low side of structure

DESIGN	BY Heidi Kuntz	CHECKED Matt Lee
DETAILS	BY Dale Kubochi	CHECKED Matt Lee
QUANTITIES	BY Heidi Kuntz	CHECKED Matt Lee

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

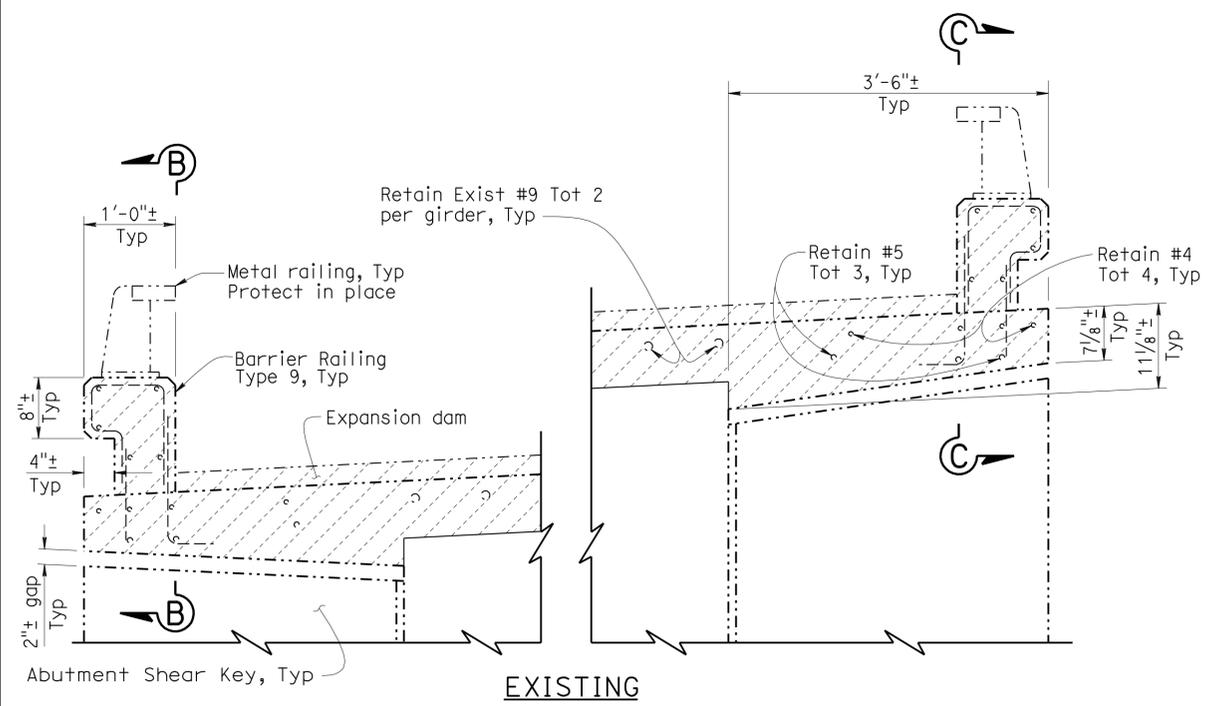
DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	50-0402R
POST MILE	R15.30

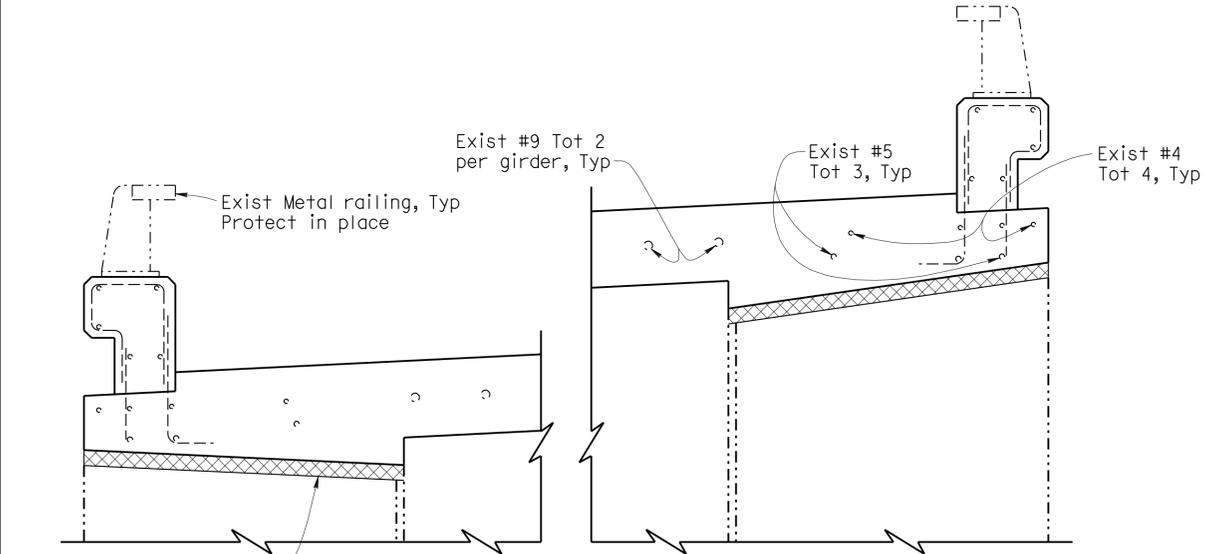
SOUTH MOJAVE OVERHEAD  
JOINT SEAL DETAILS No. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Ker	14	R15.3	10	13
Heidi Kuntz			8-16-11	REGISTERED PROFESSIONAL ENGINEER	
REGISTERED CIVIL ENGINEER			DATE		
1-17-12			PLANS APPROVAL DATE		
Heidi Kuntz			No. C62489		
Exp. 9-30-11			CIVIL		
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NOTE:  
 Indicates limits of bridge removal (portion)



**EXISTING**



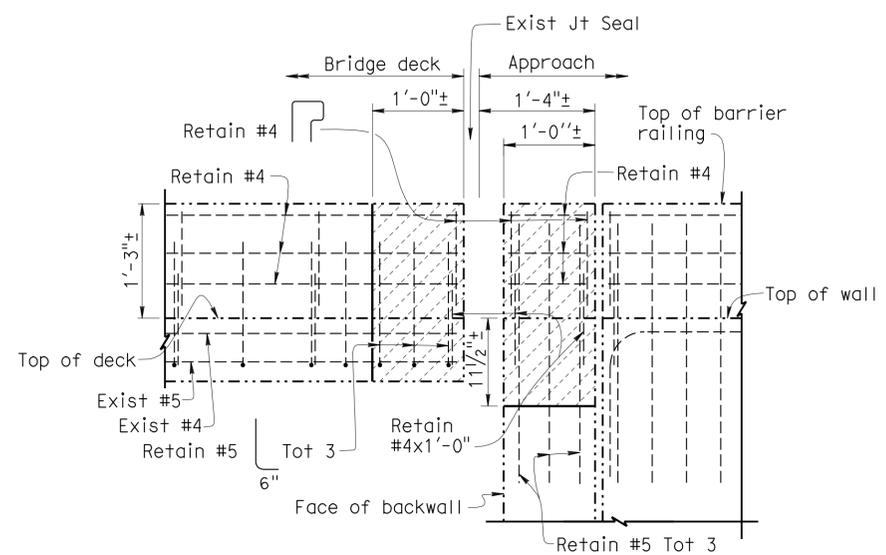
**RECONSTRUCTION**

**PART TYPICAL (Abutment 1)**

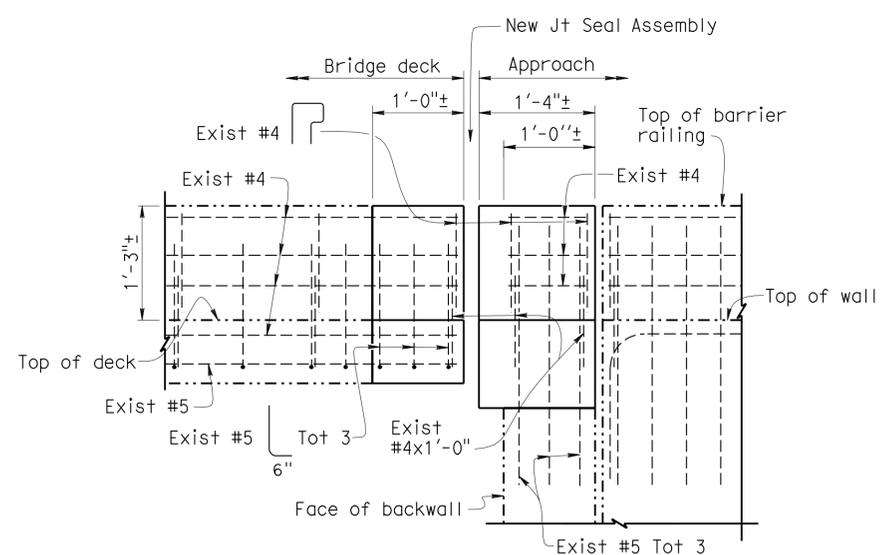
1"=1'-0"

- Notes:
- Abut 1 shown, Abut 5 similar.
  - For "Section B-B", see "JOINT SEAL DETAILS NO. 2" sheet.

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



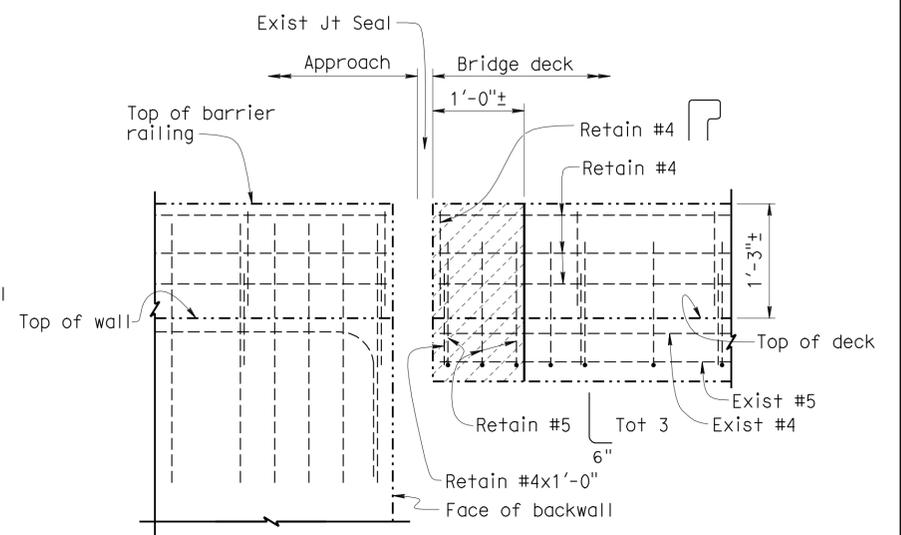
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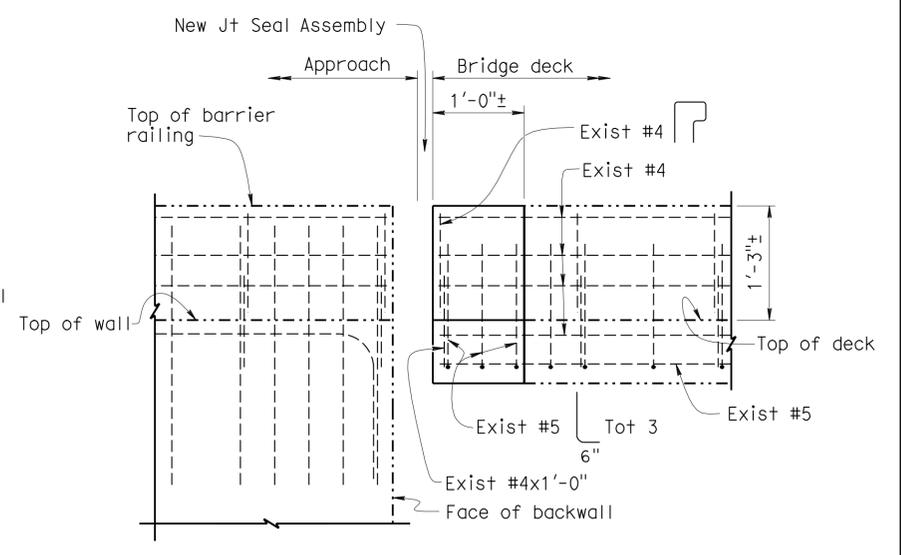
**RECONSTRUCTION**

**SECTION B-B**

1"=1'-0"



**EXISTING**



**RECONSTRUCTION**

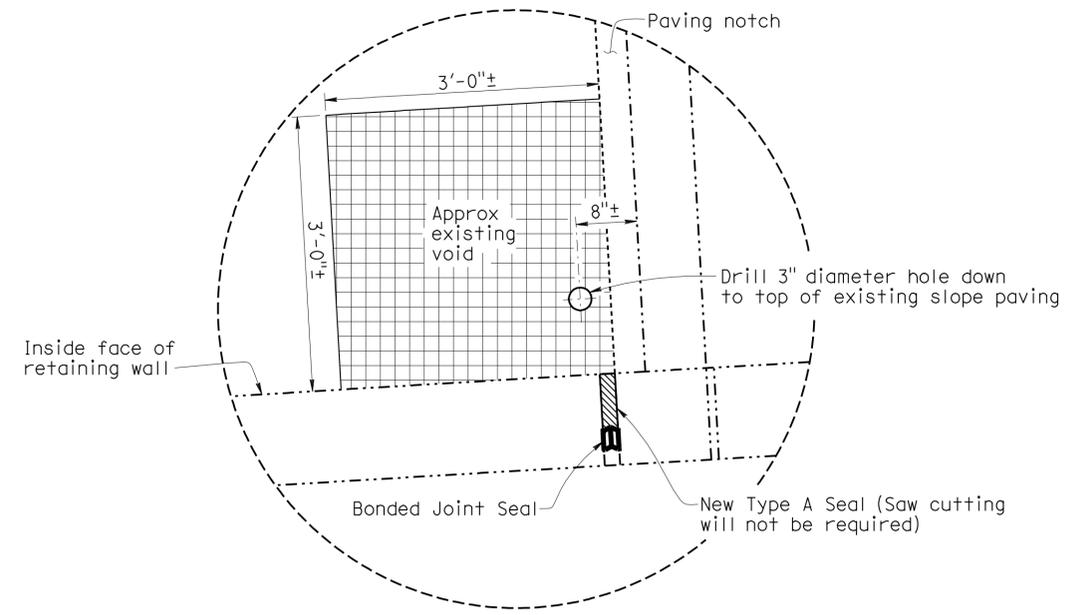
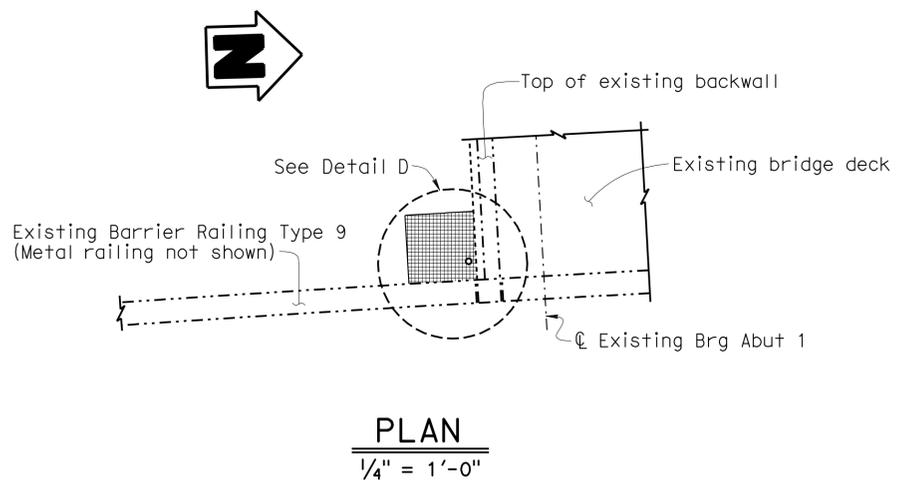
**SECTION C-C**

1"=1'-0"

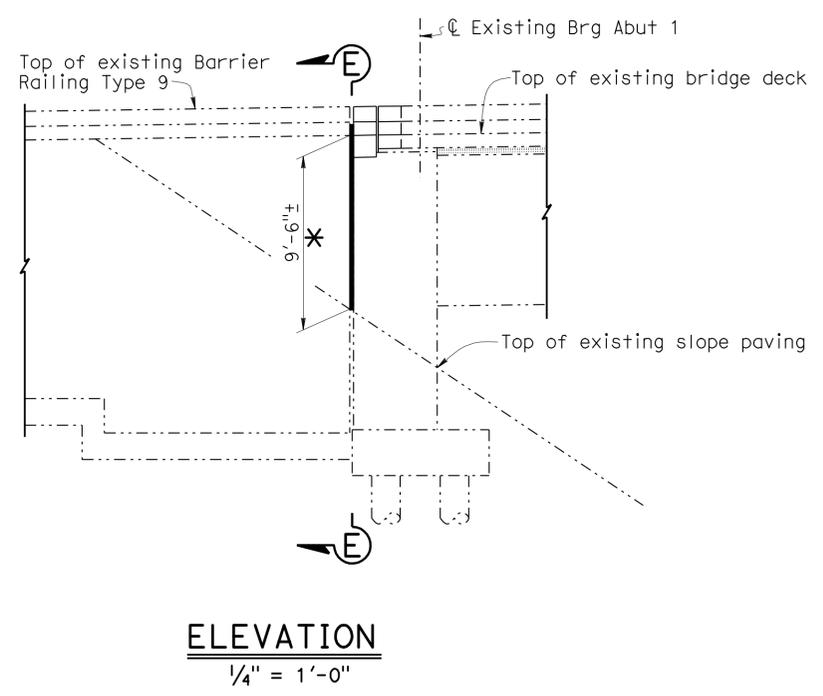
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DETAILS	BY Dale Kubochi	CHECKED Matt Lee			POST MILE	R15.30	
QUANTITIES	BY Heidi Kuntz	CHECKED Matt Lee			BRIDGE NO.	50-0402R	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Ker	14	R15.3	11	13

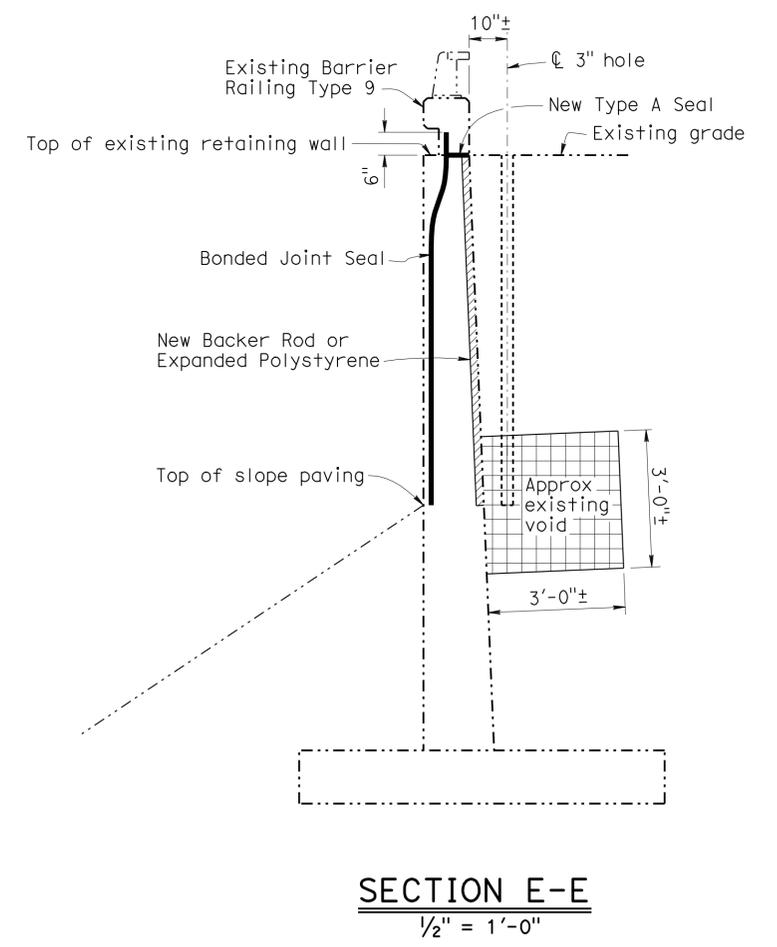
Heidi Kuntz  
 REGISTERED CIVIL ENGINEER DATE 8-16-11  
 1-17-12  
 PLANS APPROVAL DATE  
 Heidi Kuntz  
 No. C62489  
 Exp. 9-30-11  
 CIVIL  
 STATE OF CALIFORNIA  
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- Notes:
- Inject slurry cement backfill down 3" hole to fill void behind existing retaining wall.
  - For details not shown, see RSP B6-21



\* - Indicates limits clean and prepare vertical joint opening. Place backer rod or expanded polystyrene as needed prior to placement of slurry cement backfill and joint seal. Install new air pressurized, bonded joint seal, MR = 2 1/2" (Saw cutting will not be required).



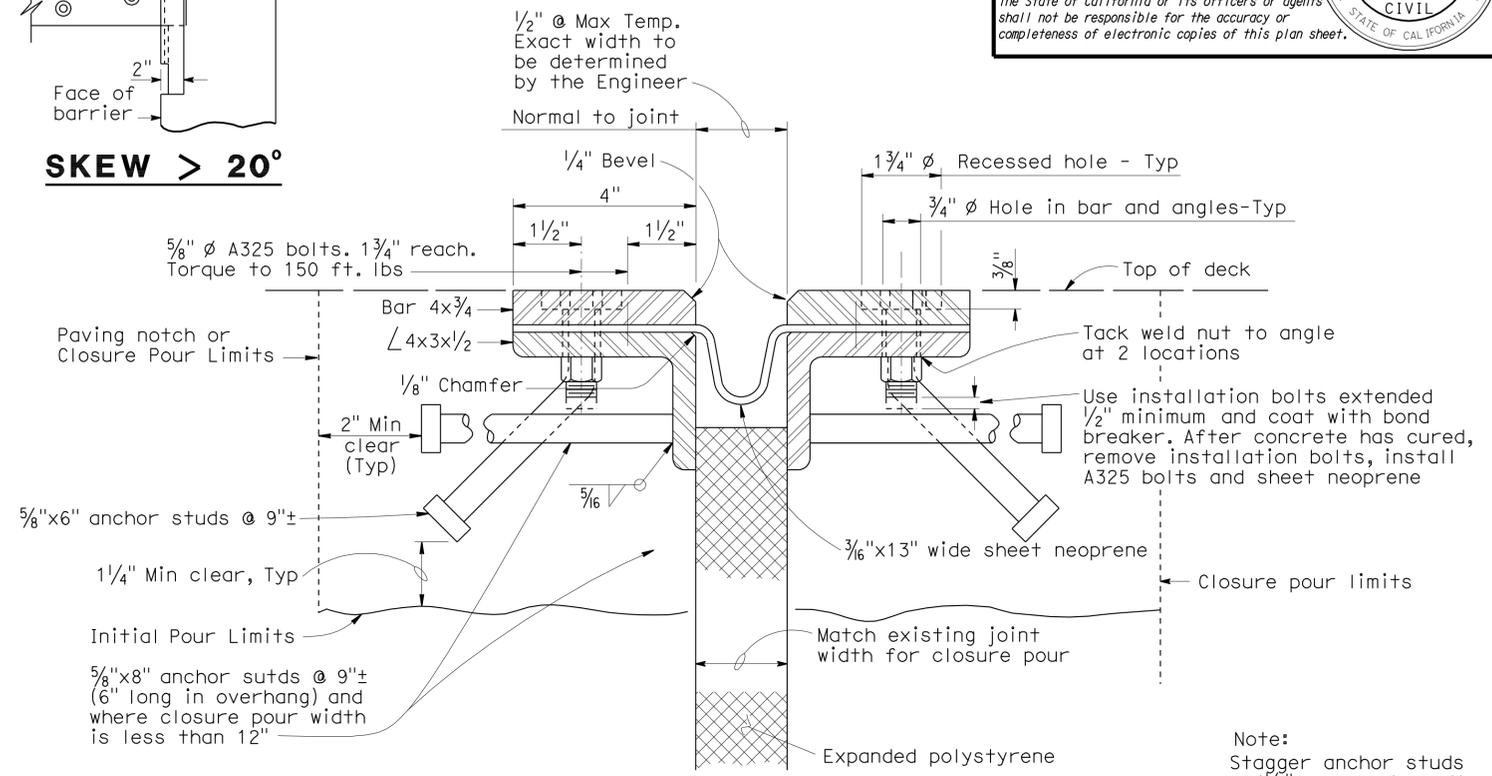
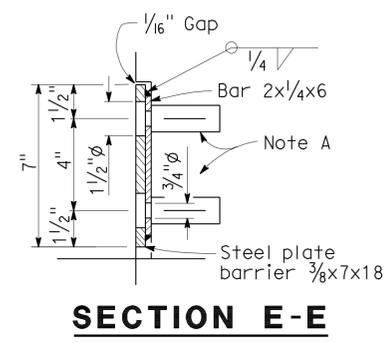
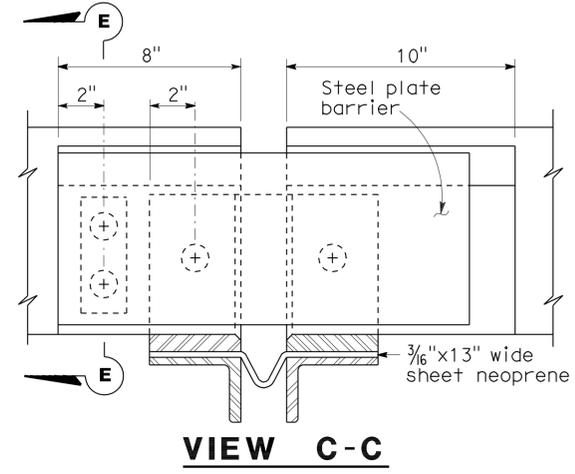
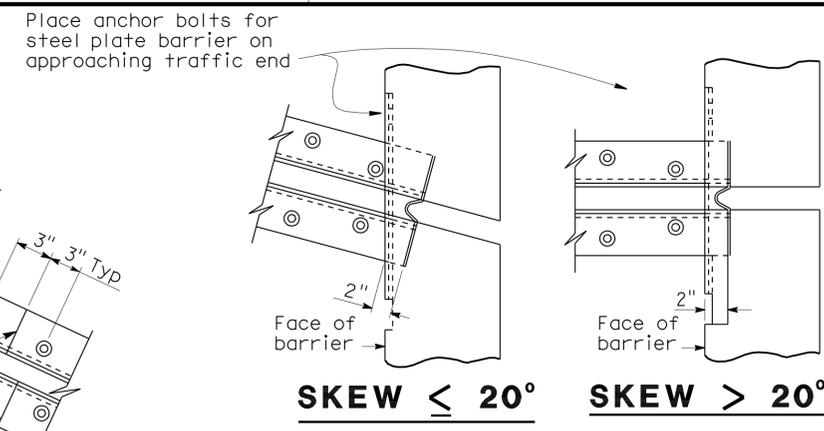
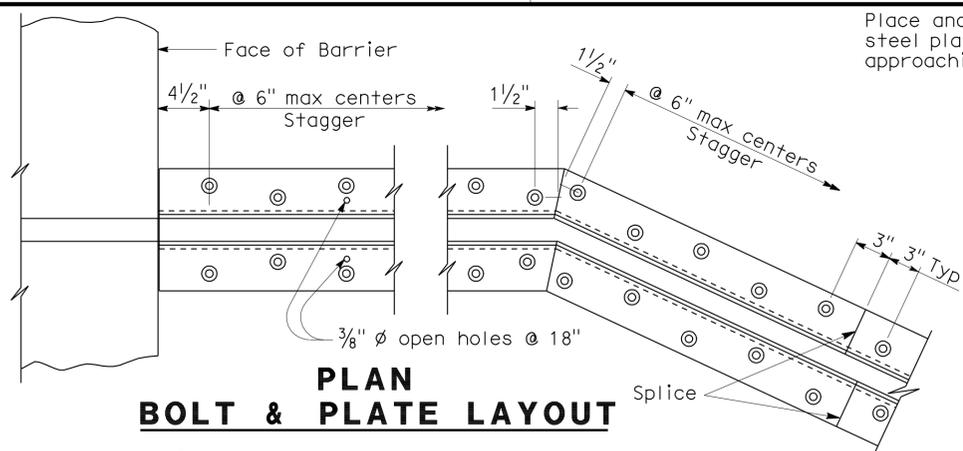
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN BY Heidi Kuntz CHECKED Matt Lee DETAILS BY Dale Kubochi CHECKED Matt Lee QUANTITIES BY Heidi Kuntz CHECKED Matt Lee	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>SOUTH MOJAVE OVERHEAD</b> JOINT SEAL DETAILS No. 3	
			50-0402R		
			POST MILE		
			R15.30		
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			CU 06 EA OK4501	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 8/17/11, 8/16/11	SHEET 4 OF 6

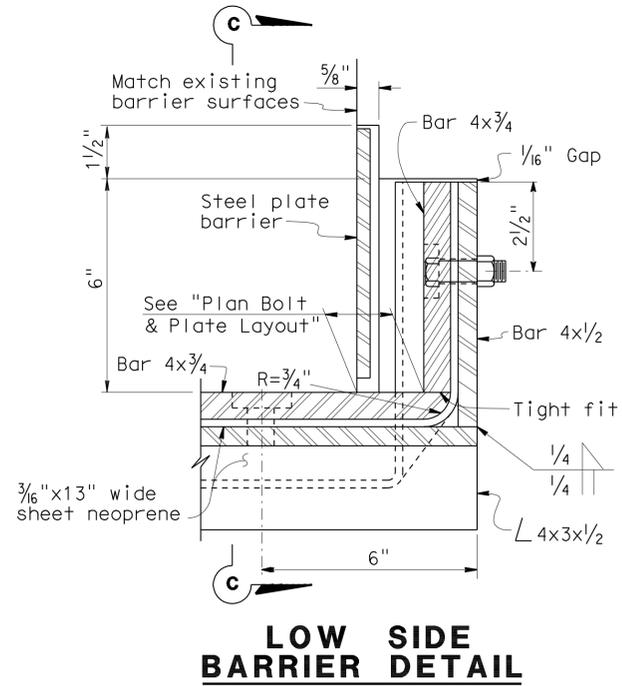
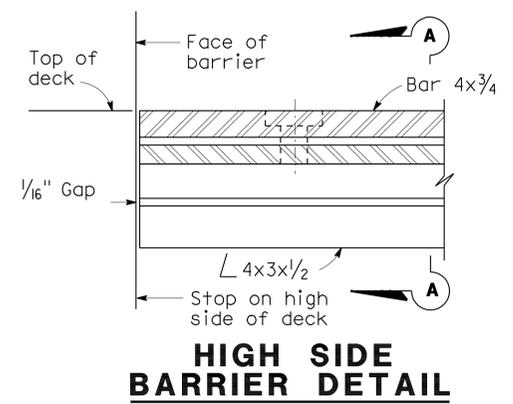
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Ker	14	R15.3	12	13

Heidi Kuntz  
 REGISTERED CIVIL ENGINEER DATE 8-16-11  
 1-17-12  
 PLANS APPROVAL DATE  
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Note:  
Stagger anchor studs @ 4 1/2" +/- on centers thus:



**NOTES:** Full penetration butt welds may be substituted for fillet welds on all anchor studs. Alternate types of anchor studs may be permitted subject to the approval by the Engineer. Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour shall not be placed until final deck surface is within the tolerance specified. Use joint at crown of roadway, at any change in traverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication. Sheet neoprene shall be fabricated in one continuous piece or joints shall be vulcanized. Neoprene shall be fabricated to bend around corners. 1" holes in neoprene sheets shall be drilled or punched so that the neoprene is not distorted at the time of installation.

**NOTE A**  
Insert assembly or expansion anchorage for 5/8" x 1 3/4" A325 bolt.

NO SCALE

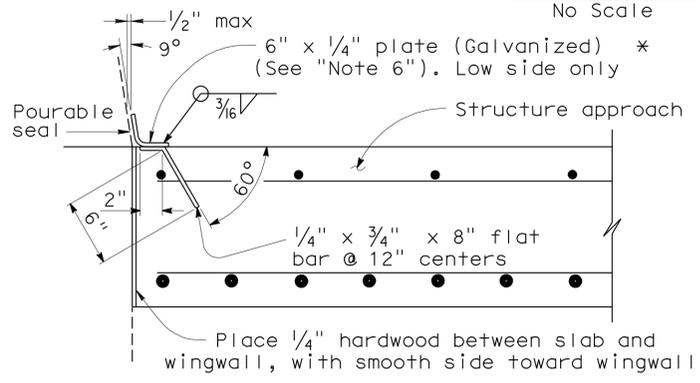
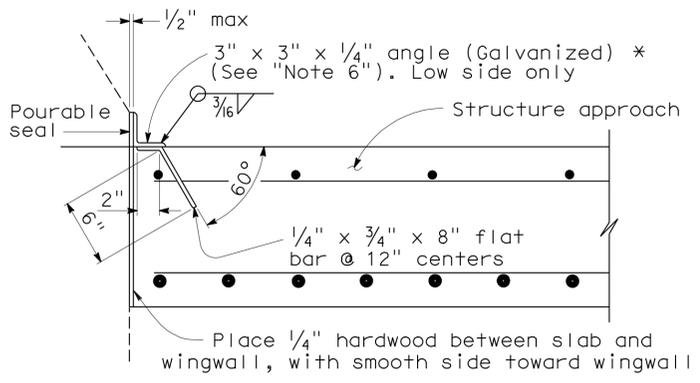
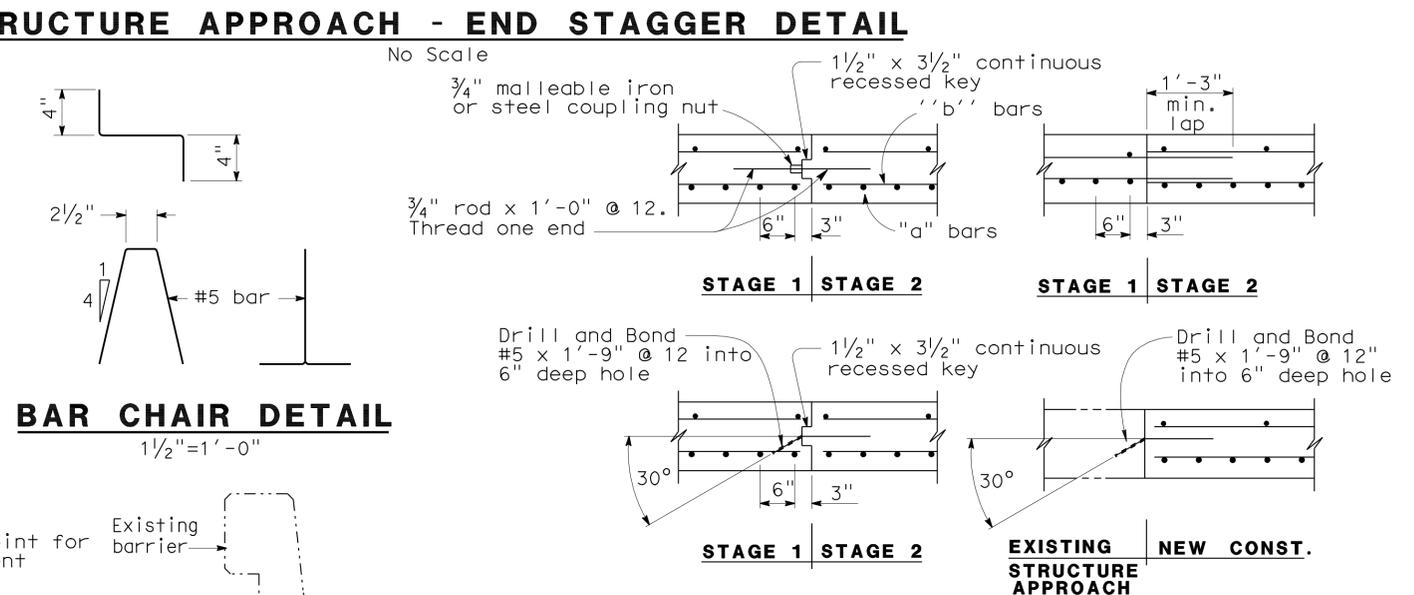
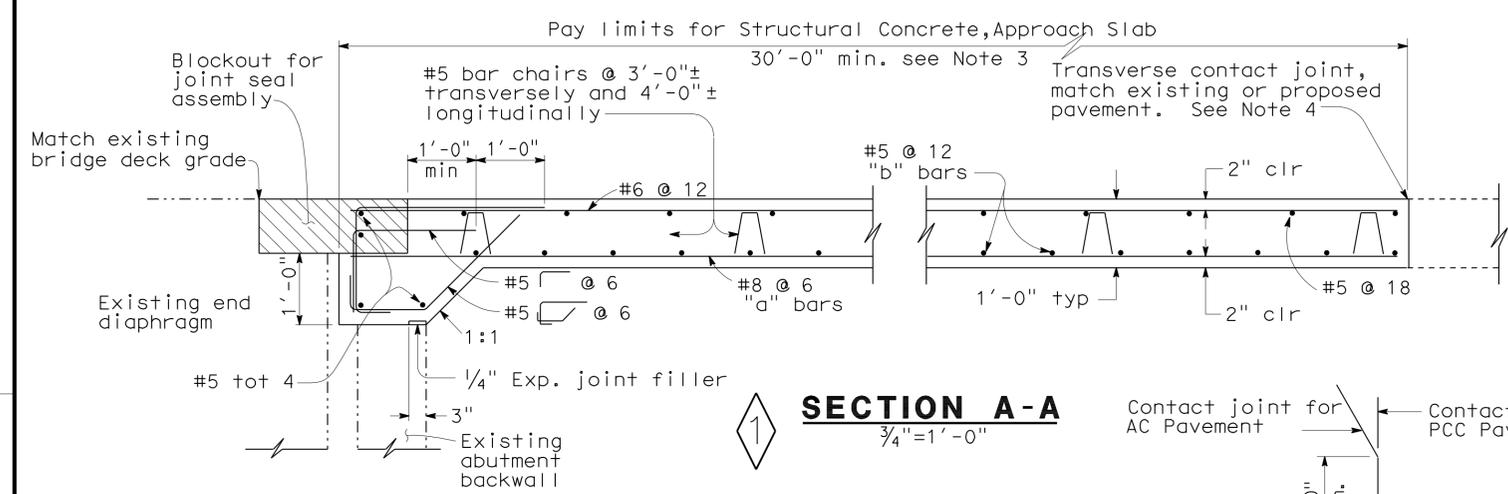
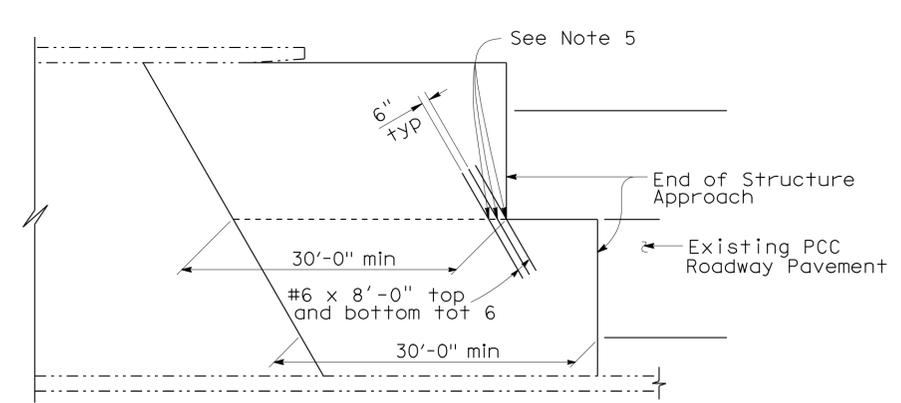
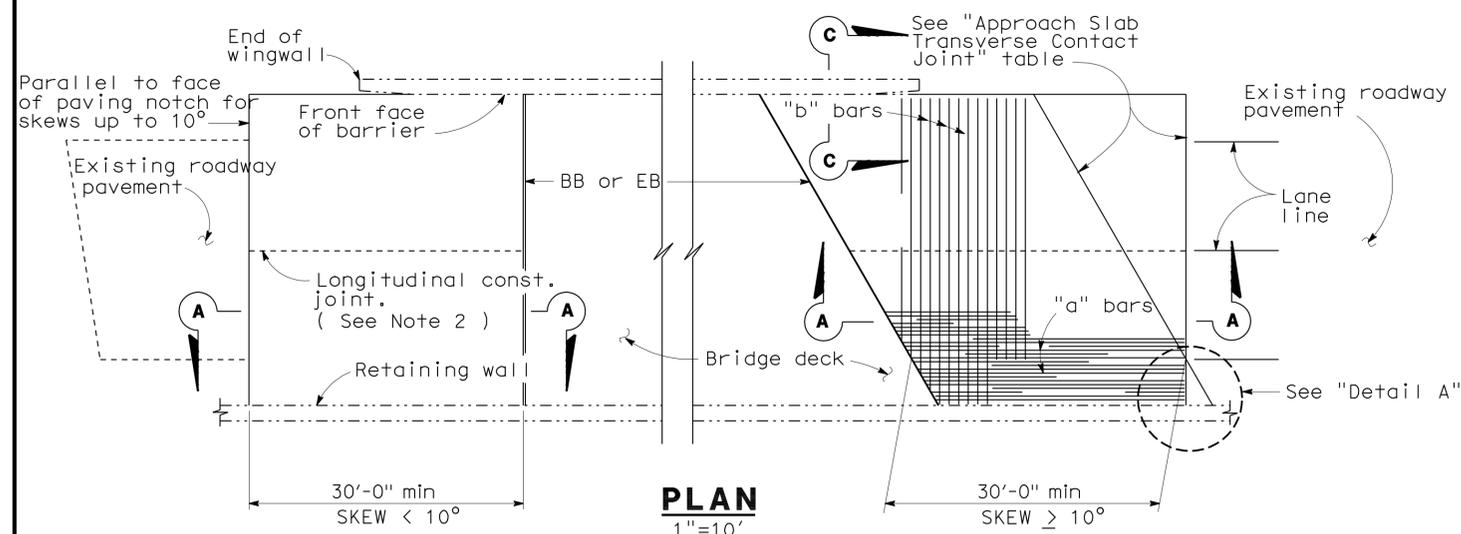
DESIGN	BY Heidi Kuntz	CHECKED Matt Lee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	SOUTH MOJAVE OVERHEAD
	DETAILS BY Dale Kubochi	CHECKED Matt Lee			50-0402R	
	QUANTITIES BY Heidi Kuntz	CHECKED Matt Lee			POST MILE R15.30	
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)				CU 06 EA OK4501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	11-10 3-18-11	SHEET 5 OF 6

USERNAME => s128843 DATE PLOTTED => 19-JAN-2012 TIME PLOTTED => 10:02

DIST.	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Ker	14	R15.3	13	13

Heidi Kuntz 8-16-11  
 REGISTERED ENGINEER - CIVIL  
 No. C62489  
 Exp. 9-30-11  
 CIVIL  
 STATE OF CALIFORNIA

1-17-12  
 PLANS APPROVAL DATE  
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APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	Parallel to face of paving notch	Parallel to face of paving notch
10° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 24' to 36' apart
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line

- NOTES:**
- Sealed joint, for M.R. see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
  - Longitudinal construction joints, when permitted by Engineer, shall be located on lane lines.
  - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint.
  - For transverse contact joint with new PCC paving, refer to Standard Plan P10.
  - Couplers are required for stage construction.
  - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable.
- NOTE:**  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

**SPECIAL DETAILS**

STANDARD DRAWING			
RELEASE DATE	DESIGN BY	CHECKED	RELEASED BY
REVISED	M. TRAFFALIS	E. THORKILDSEN	
FILE NO.	DETAILS BY	CHECKED	
xs3-130e	R. YEE	E. THORKILDSEN	
	SUBMITTED BY	DRAWING DATE	OFFICE CHIEF
	M. HA	8/92	

Modified detail

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES

BRIDGE NO.  
 50-0402R  
 MILE POST  
 R15.30

SOUTH MOJAVE OVERHEAD  
 STRUCTURE APPROACH TYPE R(30S)