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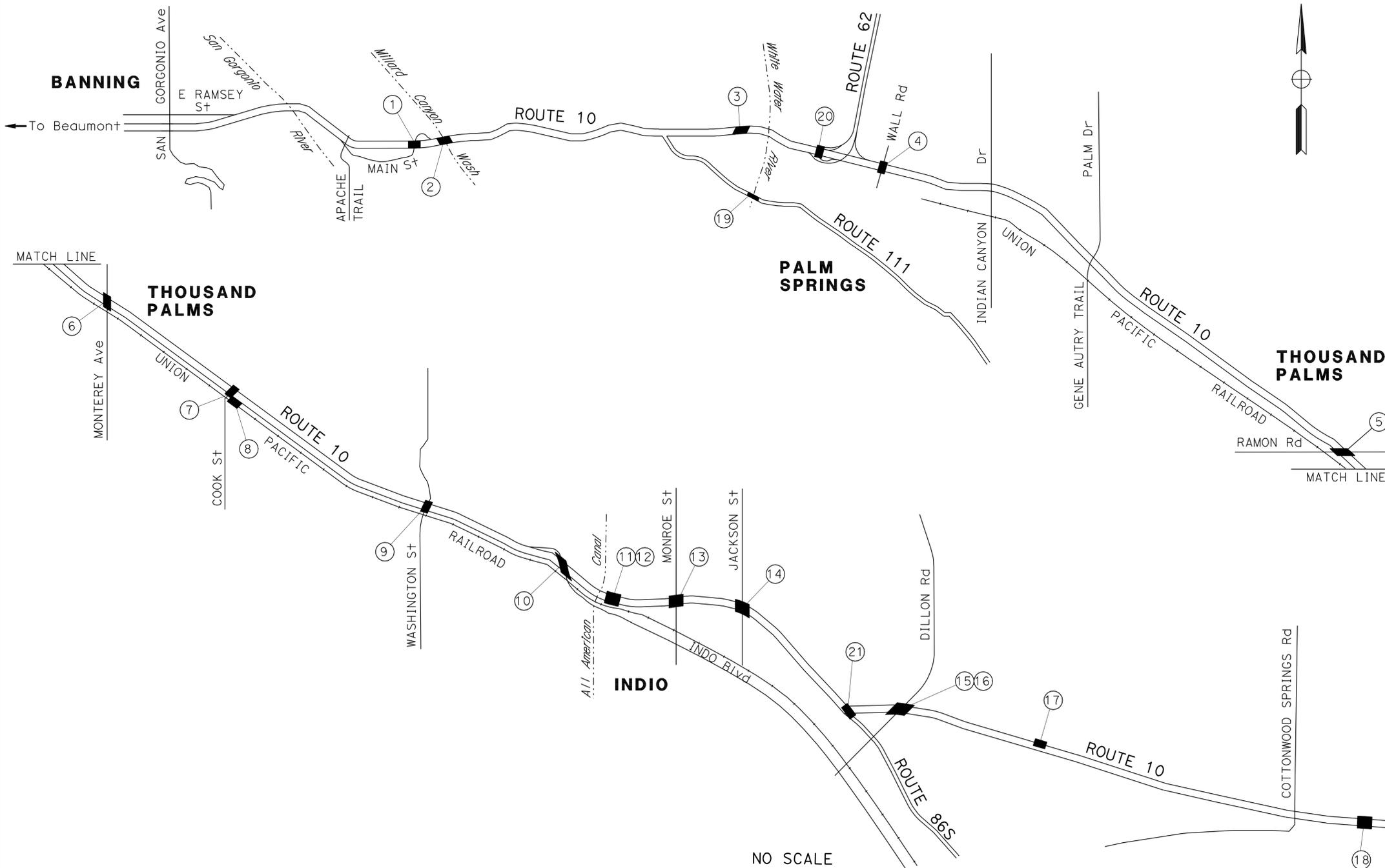
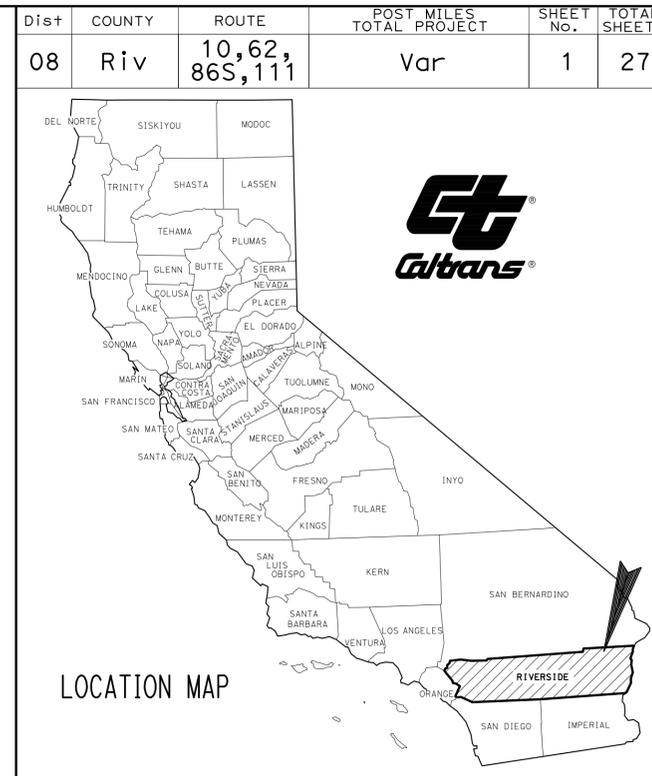
STRUCTURE PLANS

15-27 ROUTE 10, 62, 86S AND 111 BRIDGES

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 RIVERSIDE COUNTY  
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



**LOCATIONS OF CONSTRUCTION**

Loc	ROUTE	PM	NAME OF BRIDGE	BRIDGE No.
①	10	R19.40	EAST CABAZON RAMP OC	56-0456
②	10	R20.15	MILLARD CANYON WASH	56-0529R
③	10	27.23	WHITWATER OC	56-0571
④	10	30.80	WALL ROAD OC	56-0572
⑤	10	43.36	RAMON ROAD OC	56-0471
⑥	10	44.54	MONTEREY AVENUE OC	56-0793
⑦	10	46.90	COOK STREET OH	56-0787
⑧	10	47.00	COOK STREET EB ONRAMP	56-0788S
⑨	10	50.50	WASHINGTON STREET OC	56-0796
⑩	10	R52.69	NORTH INDIO ONRAMP OC	56-0627K
⑪	10	R53.80	THOUSAND PALMS WASH	56-0610L
⑫	10	R53.80	THOUSAND PALMS WASH	56-0610R
⑬	10	R54.74	MONROE STREET OC	56-0611
⑭	10	R55.74	JACKSON STREET OC	56-0612
⑮	10	R58.89	DILLON ROAD UC	56-0617L
⑯	10	R58.89	DILLON ROAD UC	56-0617R
⑰	10	R60.39	COACHELLA CANAL	56-0079L
⑱	10	R86.07	CHIRIACO OC	56-0573
⑲	111	R60.55	WHITWATER RIVER OVERFLOW	56-0241R
⑳	62	0.01	S62-E10 CONNECTOR OC	56-0474F
㉑	86S	R22.94	ROUTE 86S/10 SEPARATION	56-0620G

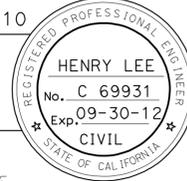
PROJECT MANAGER  
CATALINO PINING

DESIGN ENGINEER  
HENRY LEE

Henry Lee 11-10-10  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER

**January 10, 2011**  
PLANS APPROVAL DATE

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

EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



USERNAME => trmikes1  
DGN FILE => 80P140ab001.dgn

UNIT 0052 PROJECT NUMBER & PHASE 0800005531

DATE PLOTTED => 10-JAN-2011  
TIME PLOTTED => 14:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10,62, 86,111	Var	2	27

<i>Henry Lee</i>	11-10-10
REGISTERED CIVIL ENGINEER	DATE
1-10-11	
PLANS APPROVAL DATE	

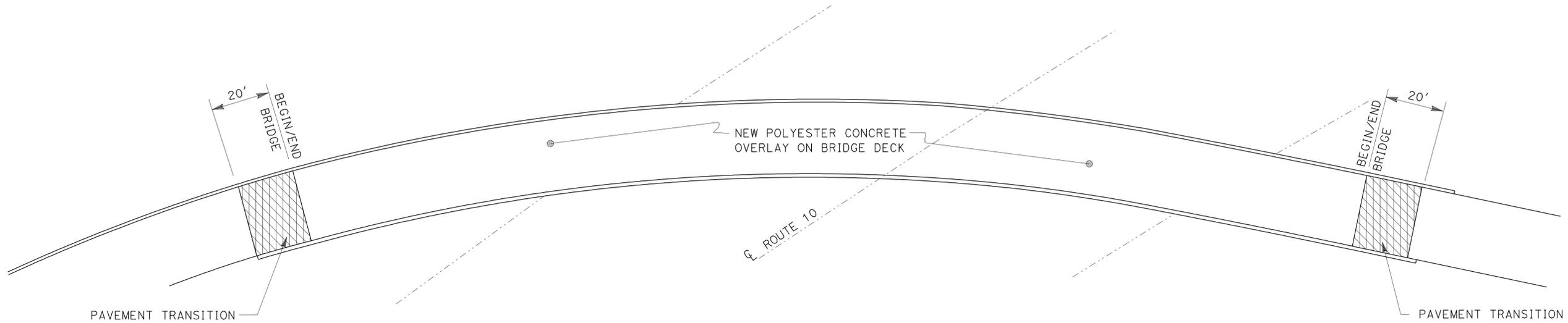
  

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**LEGEND:**

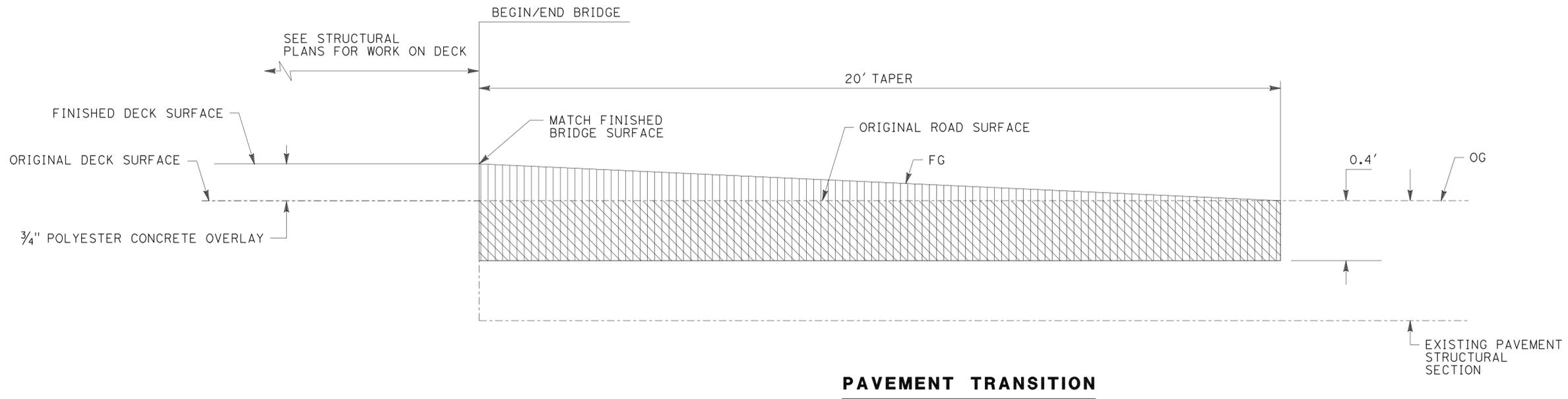
 COLD PLANE AC PAVEMENT

 HMA (TYPE A)



**2 TRANSITIONAL TAPERS ON NORTH INDIO ON-RAMP OC**

BRIDGE No. 56-0627K, PM R52.69



**PAVEMENT TRANSITION**

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**

EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> MAINTENANCE DESIGN	KEVIN CHEN	CHECKED BY	DATE
		HENRY LEE	
		KUANG H. CHEN	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: LARRY SARTORI  
 CALCULATED/DESIGNED BY: LARRY SARTORI  
 CHECKED BY: LARRY SARTORI  
 CHRTS HARDIMON  
 LARRY SARTORI  
 REVISED BY: DATE REVISED

- LEGEND:**
- CONSTRUCTION AREA
  - + CONSTRUCTION AREA SIGN (ONE POST)
  - ++ CONSTRUCTION AREA SIGN (TWO POST)
  - (X) CONSTRUCTION AREA SIGN LETTER
  - (No.) BRIDGE LOCATION, SEE TITLE SHEET FOR LOCATIONS OF CONSTRUCTION.

- NOTES:**
1. CONSTRUCTION AREA SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
  2. REFER TO STANDARD PLANS T10, T11, AND T14 FOR TRAFFIC CONTROL REQUIREMENTS.

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN No.	SIGN CODE		PANEL SIZE (IN)	No. OF POST-SIZE AND LENGTH (IN)	SIGN MESSAGE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1		36" x 36"	1 - 4" x 6"	ROAD WORK AHEAD	8
(B)		C14	48" x 24"	2 - 4" x 4"	END ROAD WORK	4
(C)*	W20-1		36" x 36"	1 - 4" x 6"	ROAD WORK AHEAD	35
(D)*		C14	48" x 24"	2 - 4" x 4"	END ROAD WORK	21
(E)		C40	144" x 60"	2 - 6" x 8"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2

\* SIGNS TO BE PLACED AT OVERHEAD/OVERCROSSINGS LOCATIONS (SEE DETAIL A).

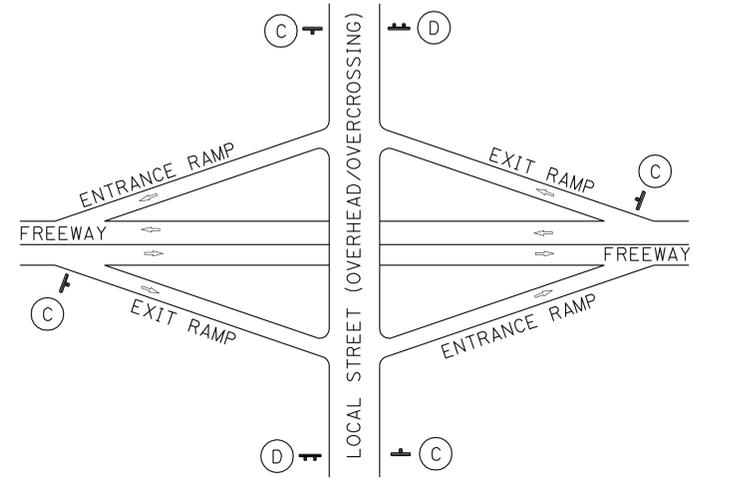
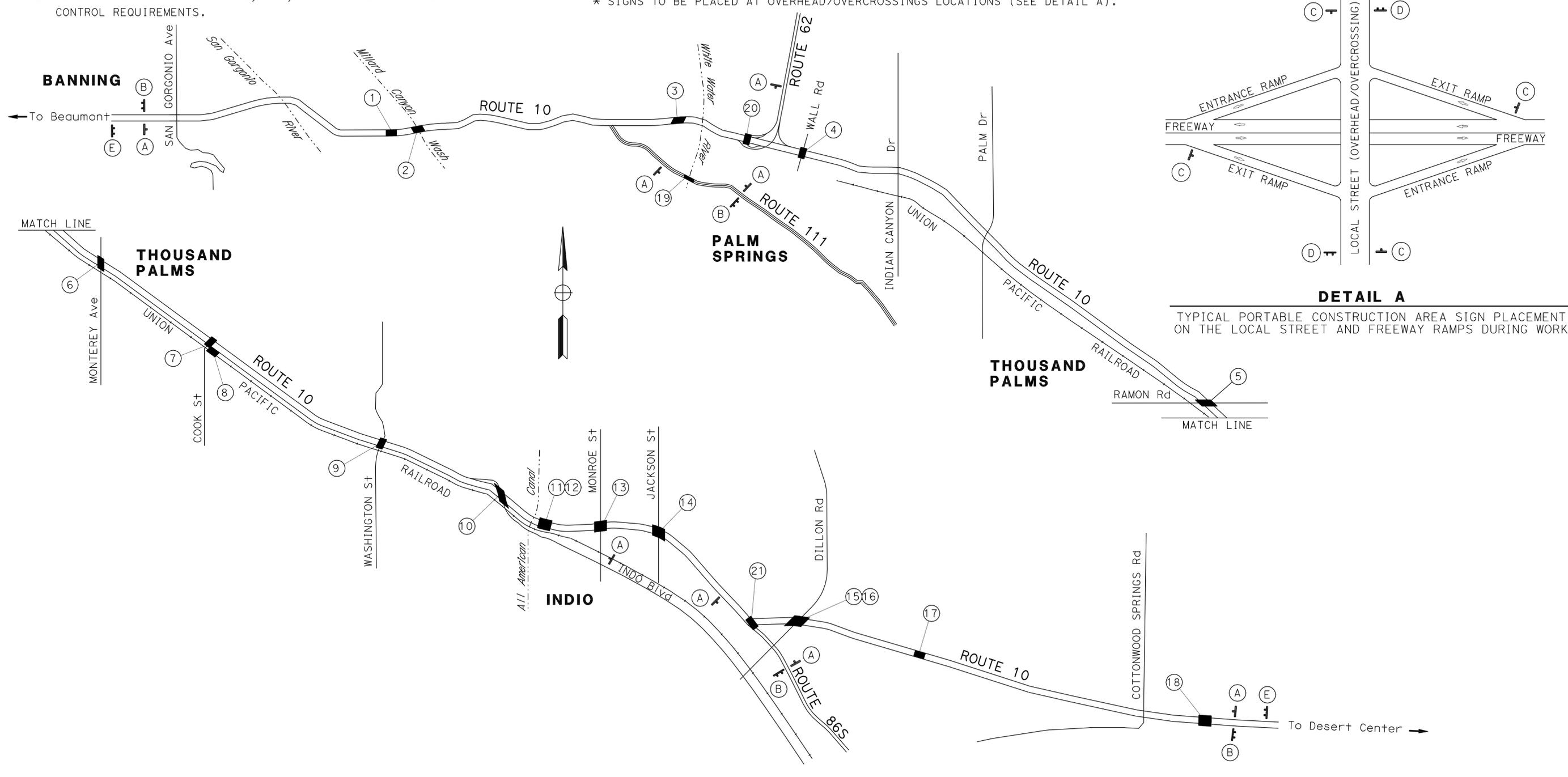
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10,62, 86,111	Var	3	27

11-10-10  
 REGISTERED CIVIL ENGINEER DATE

1-10-11  
 PLANS APPROVAL DATE

CHRIS HARDIMON  
 No. C66092  
 Exp 6/30/12  
 CIVIL  
 STATE OF CALIFORNIA

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.



**DETAIL A**  
 TYPICAL PORTABLE CONSTRUCTION AREA SIGN PLACEMENT ON THE LOCAL STREET AND FREEWAY RAMP DURING WORK

**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10,62,86,111	Var	4	27

11-10-10  
 REGISTERED CIVIL ENGINEER DATE  
 1-10-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 CHRIS HARDIMON  
 No. C66092  
 Exp. 06/30/12  
 CIVIL  
 STATE OF CALIFORNIA

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**LEGEND:**

- ++ CONSTRUCTION AREA SIGN (TYPE III BARRICADE)
- (X) CONSTRUCTION AREA SIGN LETTER
- ↔ DIRECTION OF DETOUR
- X RAMP CLOSED

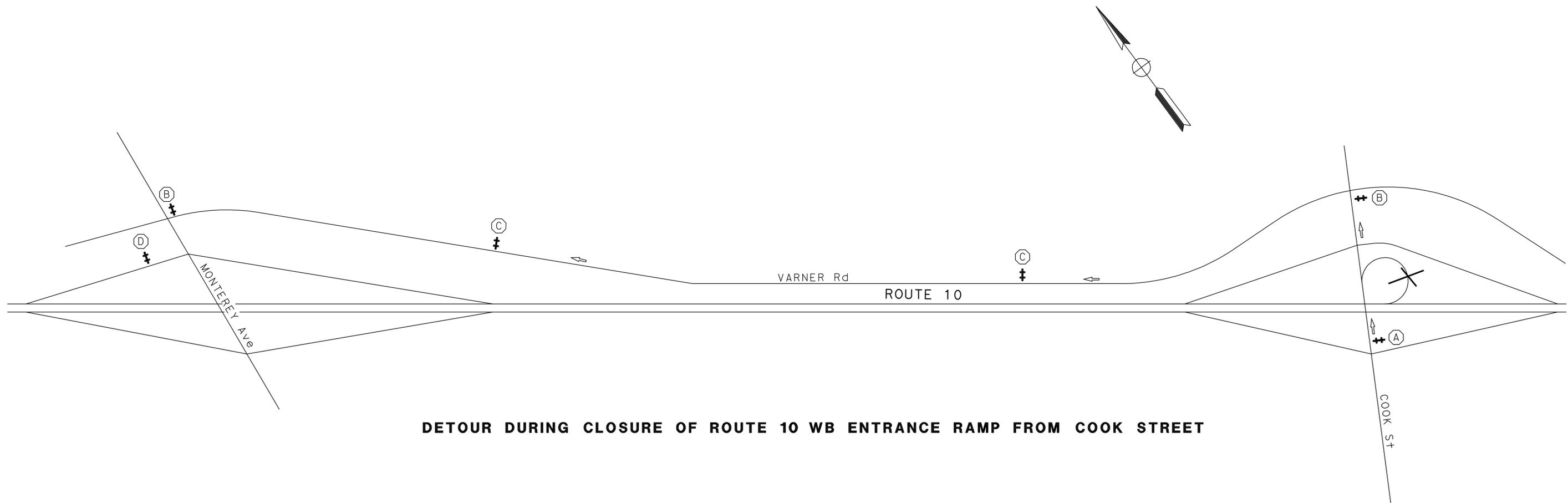
**TYPE III BARRICADE**

EA
18

**CONSTRUCTION AREA SIGNS**

SIGN No.	SIGN CODE		PANEL SIZE (in)	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-2		48" x 48"	DETOUR AHEAD	1 - 6" x 6"	1
(B)	M4-10(LT) M3-4	G27-2	48" x 18" 24" x 24" 24" x 12"	DETOUR (LEFT) 10 SHIELD WEST (INTERSTATE)	1 - 4" x 4"	2
(C)		SC3 G27-2	48" x 18" 24" x 24"	DETOUR (STRAIGHT ARROW) 10 SHIELD	1 - 4" x 4"	2
(D)	M4-8A		24" x 18"	END DETOUR	2 - 4" x 4"	1
<b>TOTAL</b>						<b>6</b>

ALL SIGNS SHALL BE MOUNTED ON TYPE III BARRICADE



**DETOUR DURING CLOSURE OF ROUTE 10 WB ENTRANCE RAMP FROM COOK STREET**

**DETOUR PLAN**  
NO SCALE  
**DE-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 LARRY SARTORI  
 LARRY SARTORI  
 CHRIS HARDIMON  
 LARRY SARTORI  
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

LAST REVISION | DATE PLOTTED => 12-JAN-2011  
 11-08-10 TIME PLOTTED => 08:17



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10,62, 86,111	Var	6	27

11-10-10  
 REGISTERED CIVIL ENGINEER DATE  
 1-10-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 CHRIS HARDIMON  
 No. C66092  
 Exp. 6/30/12  
 CIVIL  
 STATE OF CALIFORNIA

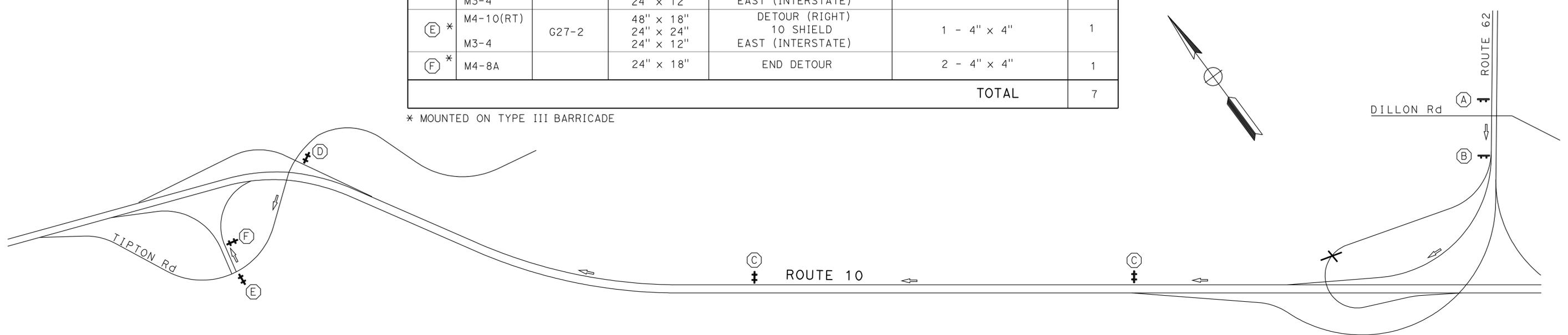
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

### CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	C-SPECIAL		108" x 60"	10 EAST RAMP CLOSED USE DETOUR	2 - 6" x 8"	1
(B)	C-SPECIAL		84" x 48"	10 EAST DETOUR (ARROW)	2 - 6" x 6"	1
(C) *		SC3 G27-2	48" x 18" 24" x 24"	DETOUR (ARROW) 10 SHIELD	1 - 4" x 4"	2
(D) *	M4-10(LT) M3-4	G27-2	48" x 18" 24" x 24" 24" x 12"	DETOUR (LEFT) 10 SHIELD EAST (INTERSTATE)	1 - 4" x 4"	1
(E) *	M4-10(RT) M3-4	G27-2	48" x 18" 24" x 24" 24" x 12"	DETOUR (RIGHT) 10 SHIELD EAST (INTERSTATE)	1 - 4" x 4"	1
(F) *	M4-8A		24" x 18"	END DETOUR	2 - 4" x 4"	1
TOTAL						7

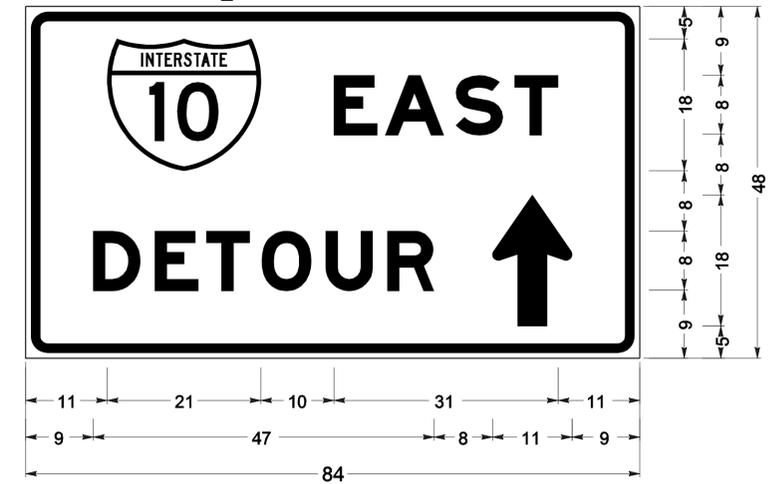
\* MOUNTED ON TYPE III BARRICADE

- LEGEND:**
- ⊕ CONSTRUCTION AREA SIGN (TWO POST)
  - ⊕ CONSTRUCTION AREA SIGN (TYPE III BARRICADE)
  - ⊗ CONSTRUCTION AREA SIGN LETTER
  - ↔ DIRECTION OF DETOUR
  - X RAMP CLOSED



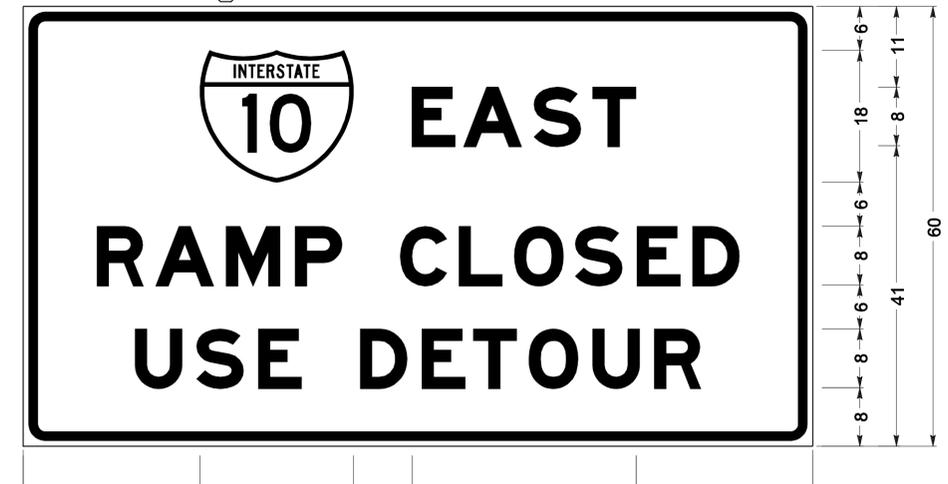
### DETOUR DURING CLOSURE OF SB ROUTE 62 TO EB ROUTE 10 CONNECTOR

DETAILS SIGN (B)



3.0" Radius, 1.3" Border, 0.8" Indent, Black on Orange;  
 [EAST] E Mod; [DETOUR] E Mod;  
 Standard Arrow Custom 17.9" X 10.9" 90°;  
 Standard Arrow Custom 17.9" X 10.9" 90°;

DETAILS SIGN (A)



3.0" Radius, 1.3" Border, 0.8" Indent, Black on Orange;  
 [EAST] E Mod; [RAMP CLOSED] E Mod; [USE DETOUR] E Mod;

### DETOUR PLAN NO SCALE DE-3

THIS PLAN ACCURATE FOR SIGN DETOUR WORK ONLY EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

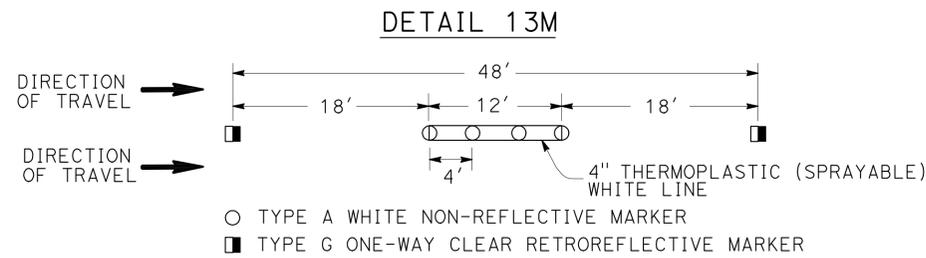
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: LARRY SARTORI  
 CALCULATED/DESIGNED BY: CHRIS HARDIMON  
 CHECKED BY: LARRY SARTORI  
 REVISED BY: CHRIS HARDIMON  
 DATE REVISED: 11-10-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10,62 86S,111	Var	7	27

11-10-10  
 REGISTERED CIVIL ENGINEER DATE  
 1-10-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 CHRIS HARDIMON  
 No. C66092  
 Exp. 06/30/12  
 CIVIL  
 STATE OF CALIFORNIA

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**PAVEMENT DELINEATION QUANTITIES**

LOCATION BRIDGE NAME/BRIDGE NUMBER	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	REMOVE PAVEMENT MARKING	REMOVE TRAFFIC STRIPE		PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING		
				WHITE	YELLOW		NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			
					4 INCH	4 INCH		8 INCH	A	D	E	G	H		4 INCH YELLOW	4 INCH WHITE
				EA	SQ FT	LF	LF	EA	EA						LF	
EAST CABAZON RAMP OVERCROSSING/56-0456	21			576									288			
MILLARD CANYON WASH/56-0529R	11													189		
	27B													63		
	25	2		63												
RAMON ROAD OVERCROSSING/56-0471	29	28		1,240					28				620			
	27B												620			
	38	2		80							2			40		
	ARROW TYPE IV(L)		15												15	
MONTEREY AVENUE OVERCROSSING/56-0793	22	24		494					24				247			
	27B												494			
	ARROW TYPE IV(L)		120												120	
	LIMIT LINE		24												24	
COOK STREET EB ON-RAMP/56-0788S	11												800			
	38A													282		
	11												180			
	25A	15		346							15		346			
COOK STREET OVERHEAD/56-0787	27B												346			
	ARROW TYPE V		66												66	
	27B												976			
	28			1,008									504			
	11												1,444			
	LIMIT LINE		108												108	
	ARROW TYPE VI (L)		42												42	
	21			472									236			
	8												180			
38A													436			
NORTH INDIO ON-RAMP OVERCROSSING/56-0627K	2-ARROW TYPE IV(L)		30												30	
	CROSSWALK		100												100	
	38	3									3			50		
THOUSAND PALMS WASH/56-0610L	11												526			
	25A	22		526								22	526			
	27B												526			
THOUSAND PALMS WASH/56-0610R	13M	140						112			28		1,322			
	25A	28		661							28		661			
	27B												661			
MONROE STREET OVERCROSSING/56-0611	13M	160						128			32		1,466			
	25A	31		733							31		733			
	27B												733			
SUBTOTAL	21			500									250			
SHEET TOTAL		455	505	6,619	7571	240	215	98	4474	10,526	808					

**NOTE:**

1. FOR TYPE 13M TRAFFIC STRIPES, PAVEMENT MARKERS SHALL BE PLACED BEFORE THE APPLICATION OF THE THERMOPLASTIC TRAFFIC STRIPES.

**PAVEMENT DELINEATION QUANTITIES**

NO SCALE

**PDQ-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10,62, 86S,111	Var	9	27

*Henry Lee* 11-10-10  
 REGISTERED CIVIL ENGINEER DATE

1-10-11  
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS  
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR  
 KEVIN CHEN  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 HENRY LEE  
 KUANG H. CHEN  
 REVISED BY  
 DATE REVISED

### PAVEMENT QUANTITIES

BRIDGE No.	DESCRIPTION	PM	LENGTH	WIDTH	DEPTH	COLD PLANE AC PAVEMENT	HOT MIX ASPHALT (TYPE A)
			(LF)	(FT)	(FT)	(SQYD)	(TON)
56-0627K	NORTH INDIO ON-RAMP OC (BEGIN BRIDGE)	R52.69	20	32	0.4	72	21
56-0627K	NORTH INDIO ON-RAMP OC (END BRIDGE)	R52.69	20	32	0.4	72	21
TOTAL						144	42

## SUMMARY OF QUANTITIES

Q-1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10,62, 86S, 111	Var	10	27

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

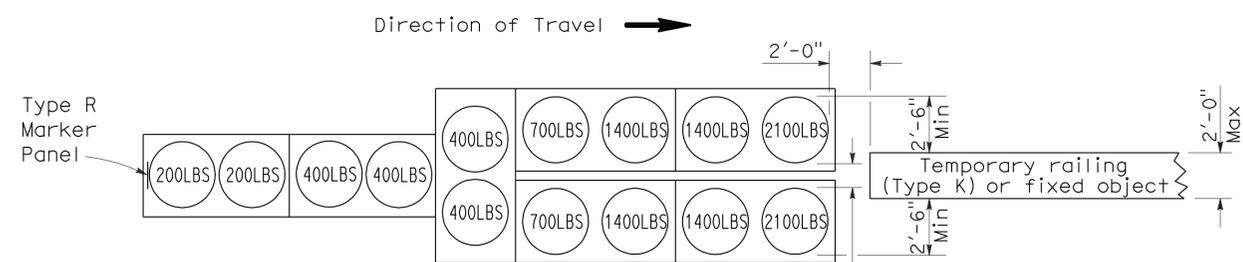
June 6, 2008  
PLANS APPROVAL DATE

*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

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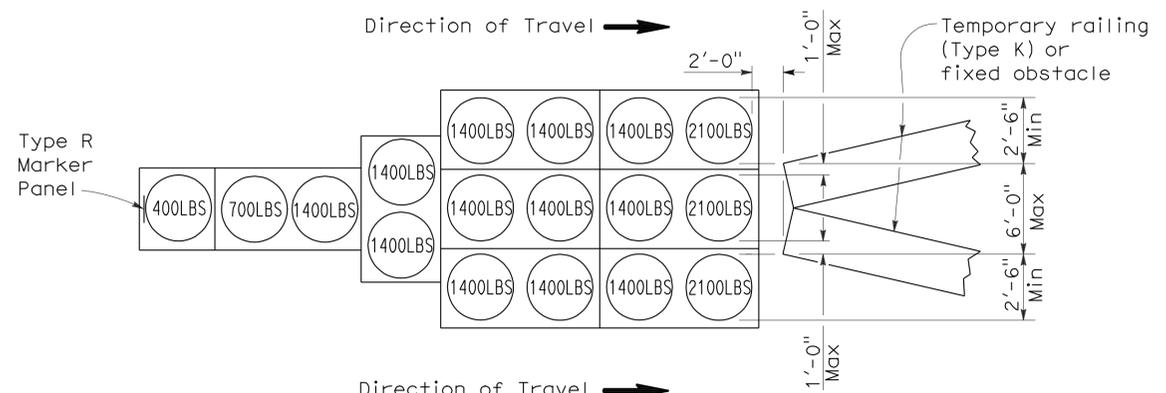
To accompany plans dated 1-10-11

2006 REVISED STANDARD PLAN RSP T1A



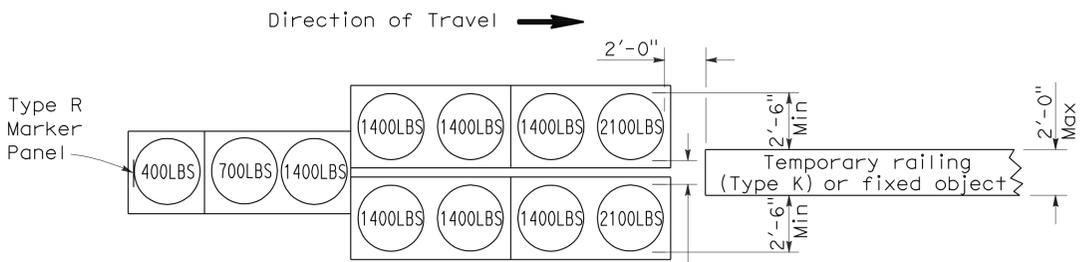
**ARRAY 'TU14'**

Approach speed 45 mph or more



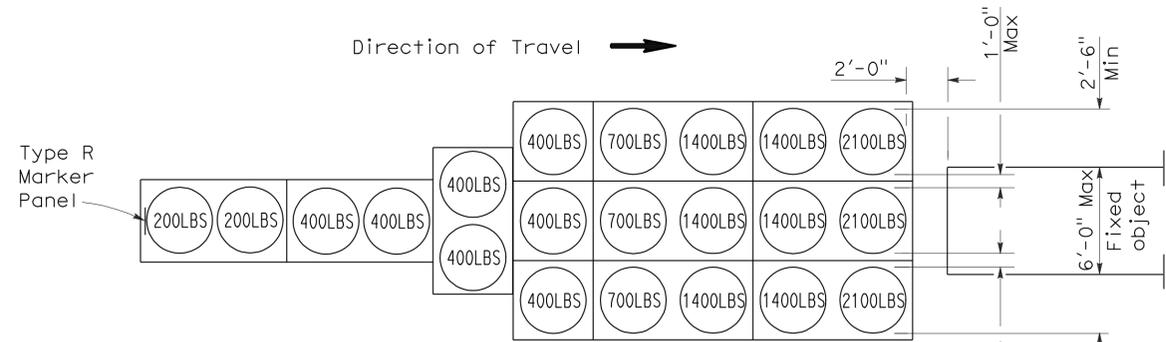
**ARRAY 'TU17'**

Approach speed less than 45 mph



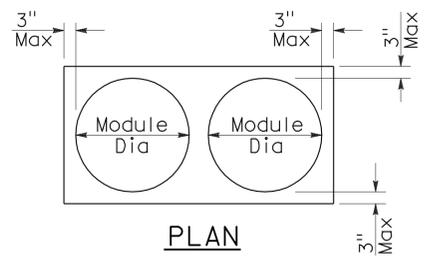
**ARRAY 'TU11'**

Approach speed less than 45 mph

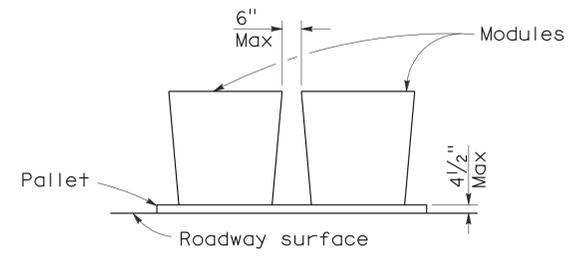


**ARRAY 'TU21'**

Approach speed 45 mph or more



**PLAN**



**ELEVATION**

**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**

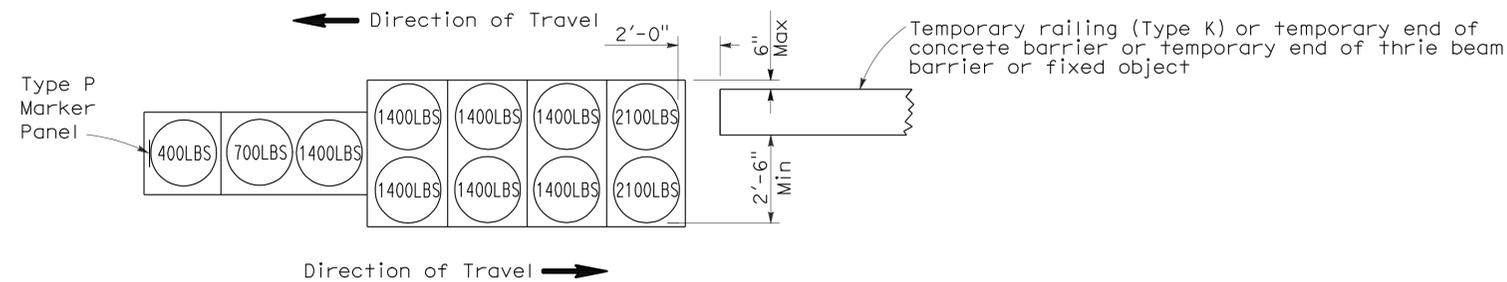
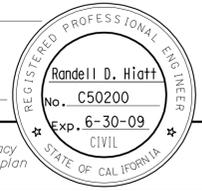
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10,62, 86S, 111	Var	11	27

Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

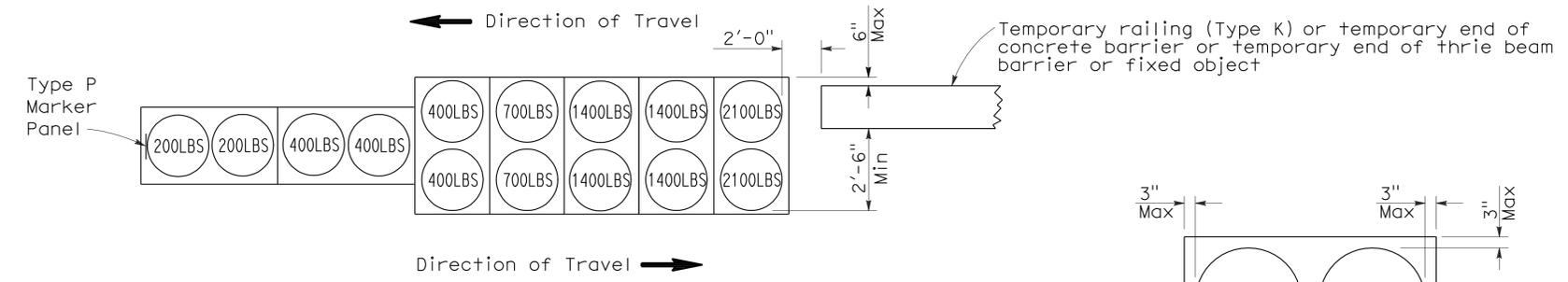
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1-10-11



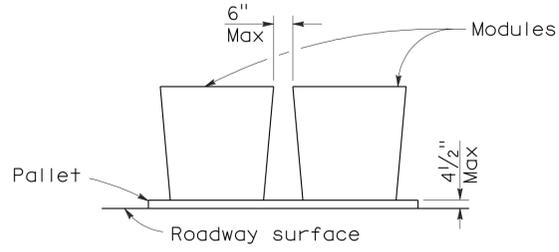
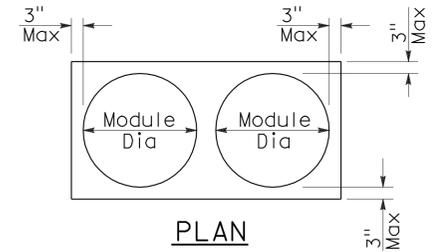
**ARRAY 'TB11'**

Approach speed less than 45 mph



**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

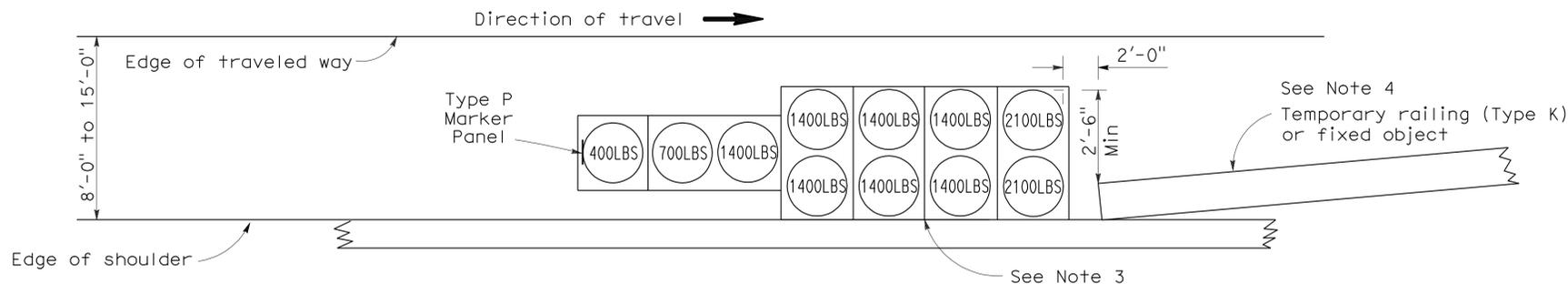
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10,62, 86S, 111	Var	12	27

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

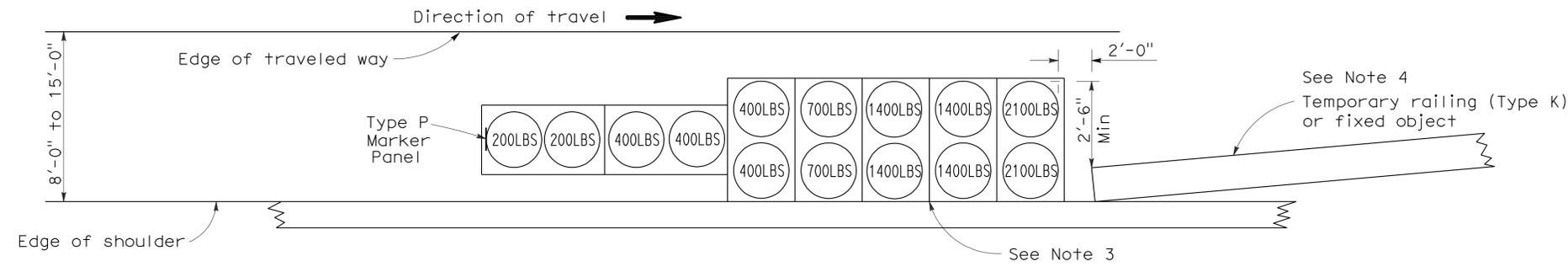
June 6, 2008  
PLANS APPROVAL DATE

*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.*

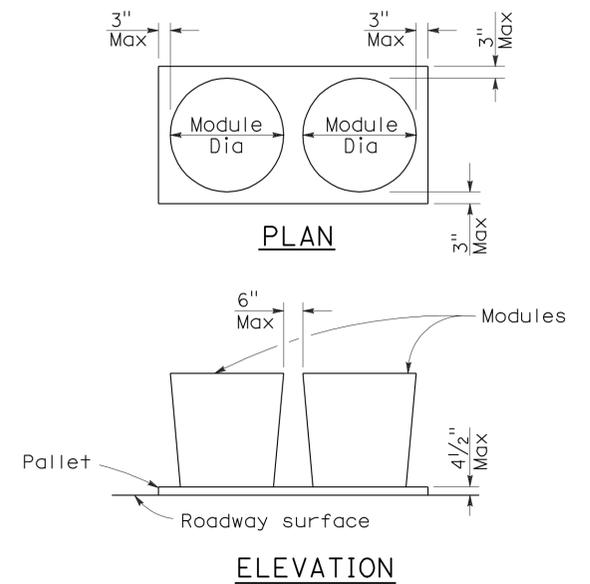
To accompany plans dated 1-10-11



**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)**

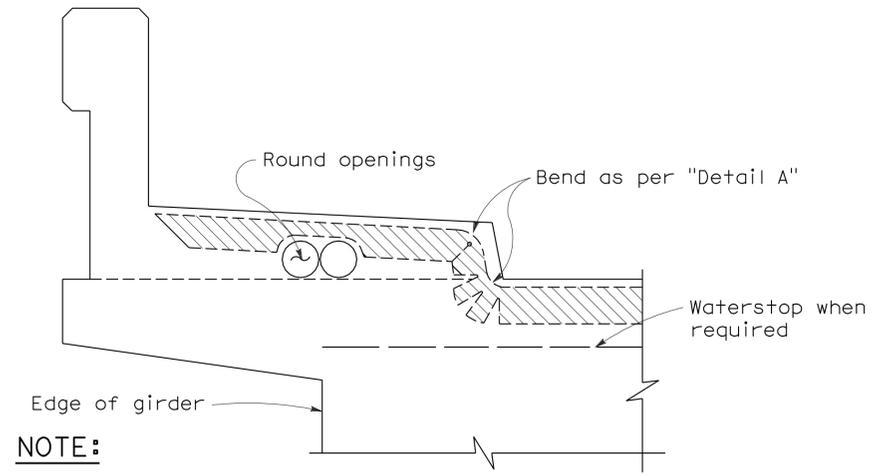
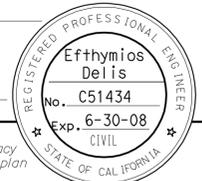
NO SCALE

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**

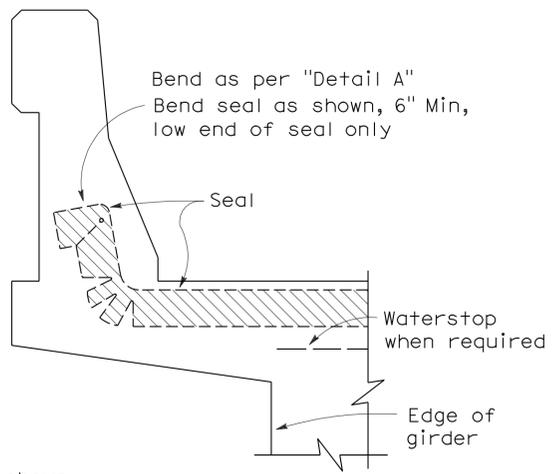
2006 REVISED STANDARD PLAN RSP T2



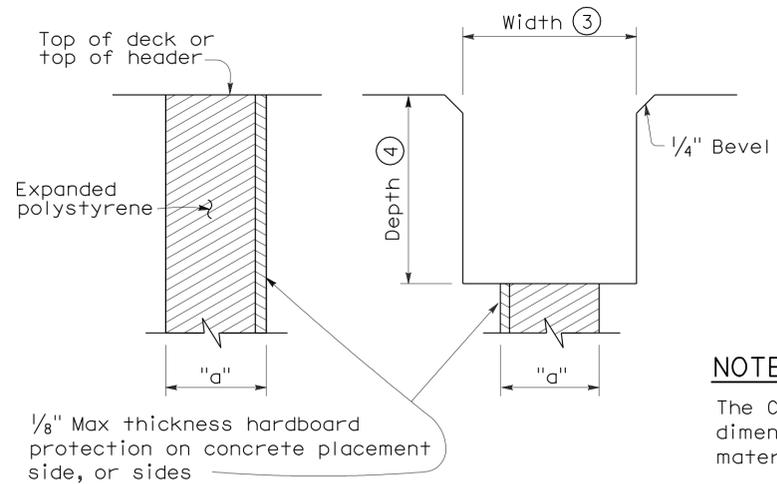


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



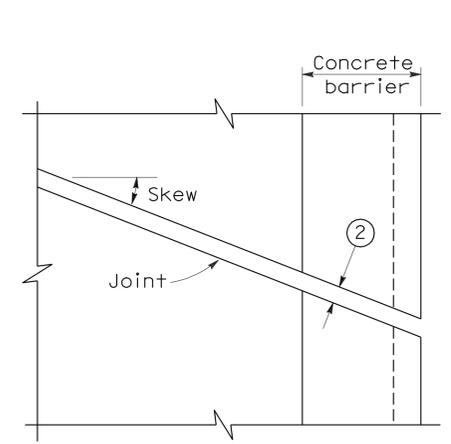
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

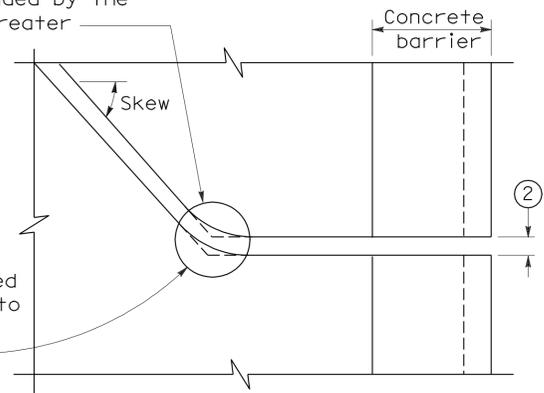
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



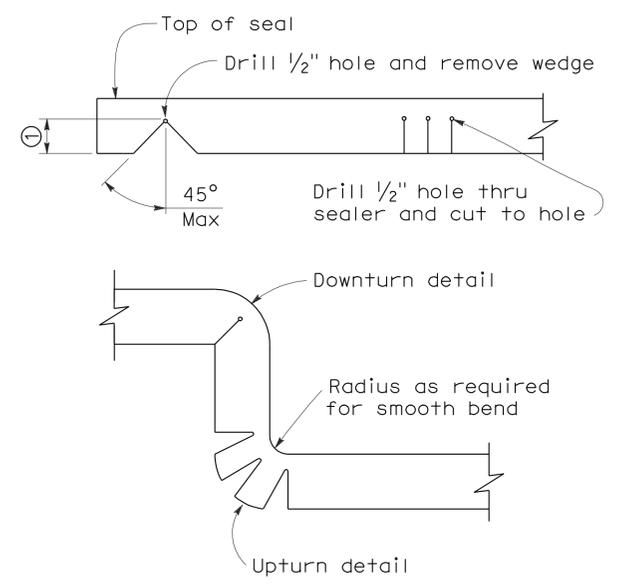
**PLAN OF JOINT (SKEW ≤ 20°)**

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.



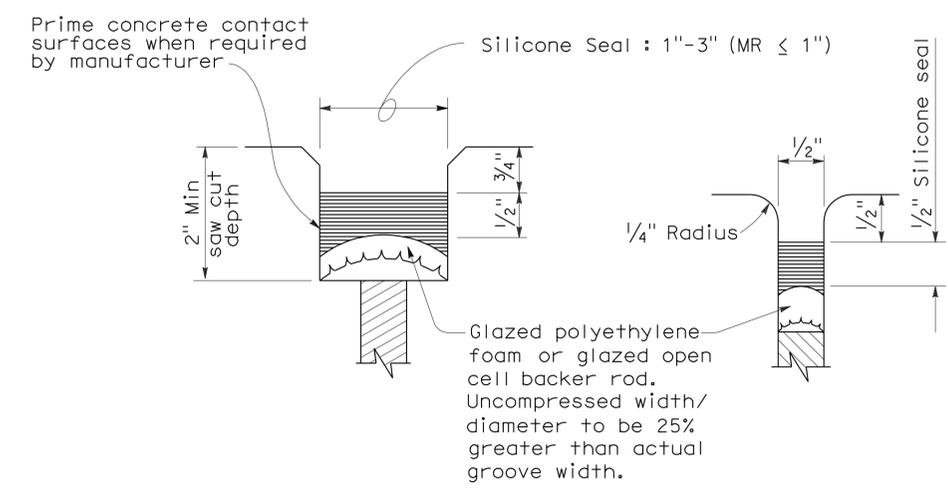
**DETAIL A**

**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"

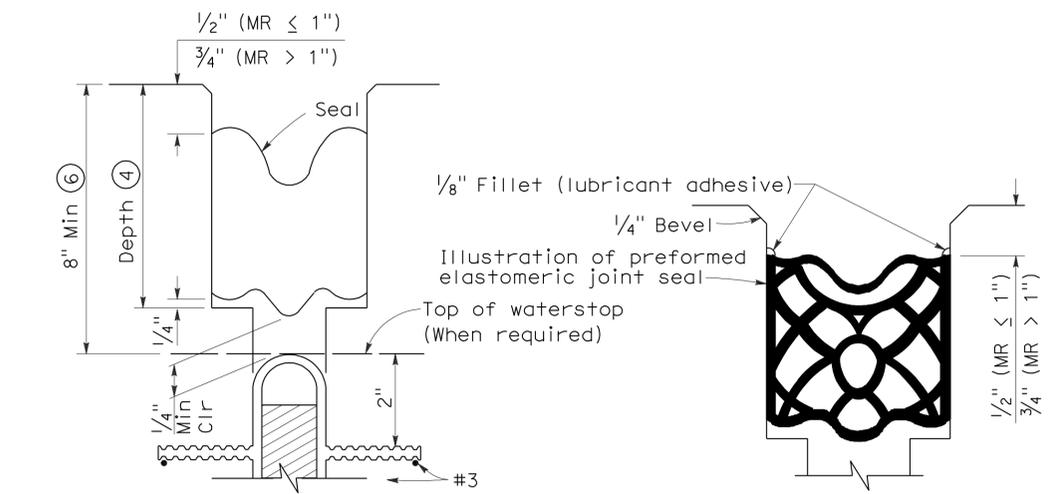


**TYPE A SEAL**

Movement rating : Silicone = 1" Max

**TYPE AL SEAL**

Longitudinal joints only



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

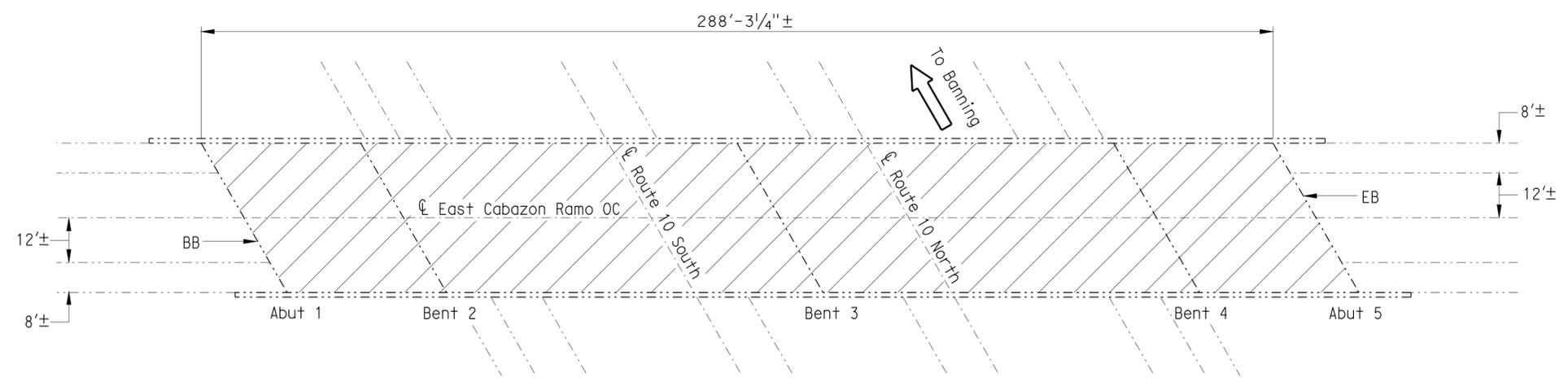
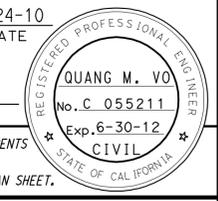
**TYPE B SEAL**

Movement Rating ≤ 2"

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

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.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10, 62, 86S, 111	Var	15	27
 REGISTERED CIVIL ENGINEER			8-24-10	DATE	
1-10-11 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.					



NOTES:

- - - - - Indicates existing.
-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

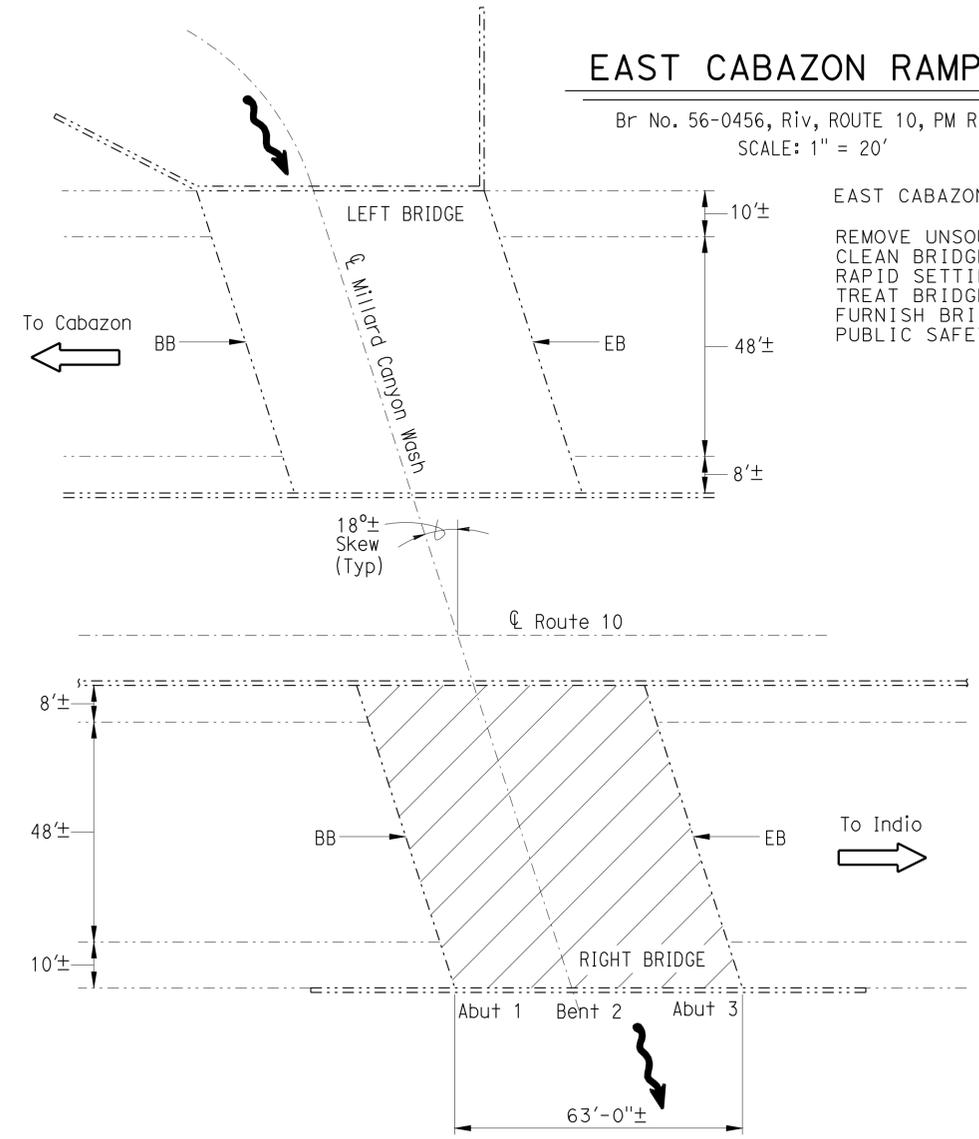
**EAST CABAZON RAMP OC**

Br No. 56-0456, Riv, ROUTE 10, PM R19.40  
SCALE: 1" = 20'

EAST CABAZON RAMP OC		BRIDGE No. 56-0456	
QUANTITIES			
REMOVE UNSOUND CONCRETE		29	CF
CLEAN BRIDGE DECK		11,532	SQFT
RAPID SETTING CONCRETE (PATCH)		29	CF
TREAT BRIDGE DECK		11,532	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		128	GAL
PUBLIC SAFETY PLAN			LUMP SUM

**INDEX TO PLANS**

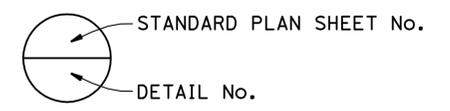
SHEET No.	TITLE
1	GENERAL PLAN No. 1
2	GENERAL PLAN No. 2
3	GENERAL PLAN No. 3
4	GENERAL PLAN No. 4
5	GENERAL PLAN No. 5
6	GENERAL PLAN No. 6
7	GENERAL PLAN No. 7
8	GENERAL PLAN No. 8
9	GENERAL PLAN No. 9
10	GENERAL PLAN No. 10
11	JOINT SEAL DETAILS No. 1
12	JOINT SEAL DETAILS No. 2
13	STRUCTURE APPROACH TYPE R(30D)



MILLARD CANYON WASH		BRIDGE No. 56-0529R	
QUANTITIES			
REMOVE UNSOUND CONCRETE		11	CF
CLEAN BRIDGE DECK		4,158	SQFT
RAPID SETTING CONCRETE (PATCH)		11	CF
TREAT BRIDGE DECK		4,158	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		46	GAL

**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")



  
DESIGN ENGINEER  
8-24-10

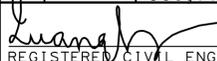
DESIGN	BY Q. Vo	CHECKED D. Floyd
DETAILS	BY N. Kelley	CHECKED D. Floyd
QUANTITIES	BY Q. Vo	CHECKED D. Floyd

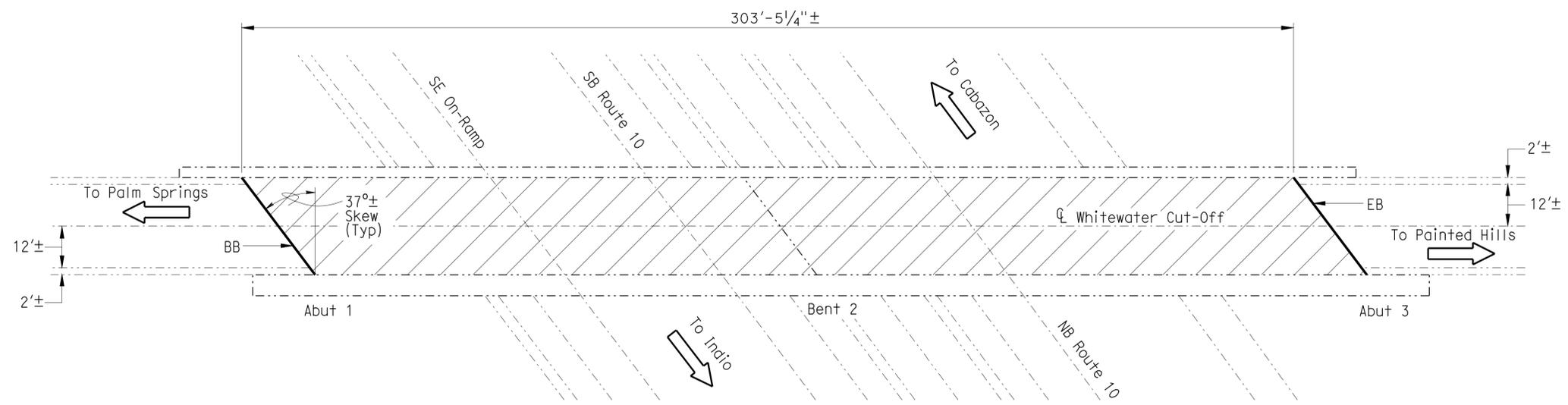
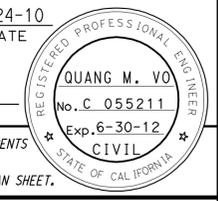
LAYOUT	BY N. Kelley	CHECKED Q. Vo
SPECIFICATIONS	BY R. Franti	PLANS AND SPECIFICATIONS COMPARED R. Franti

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Various  
**ROUTE 10, 62, 86S & 111 BRIDGES**  
GENERAL PLAN No. 1

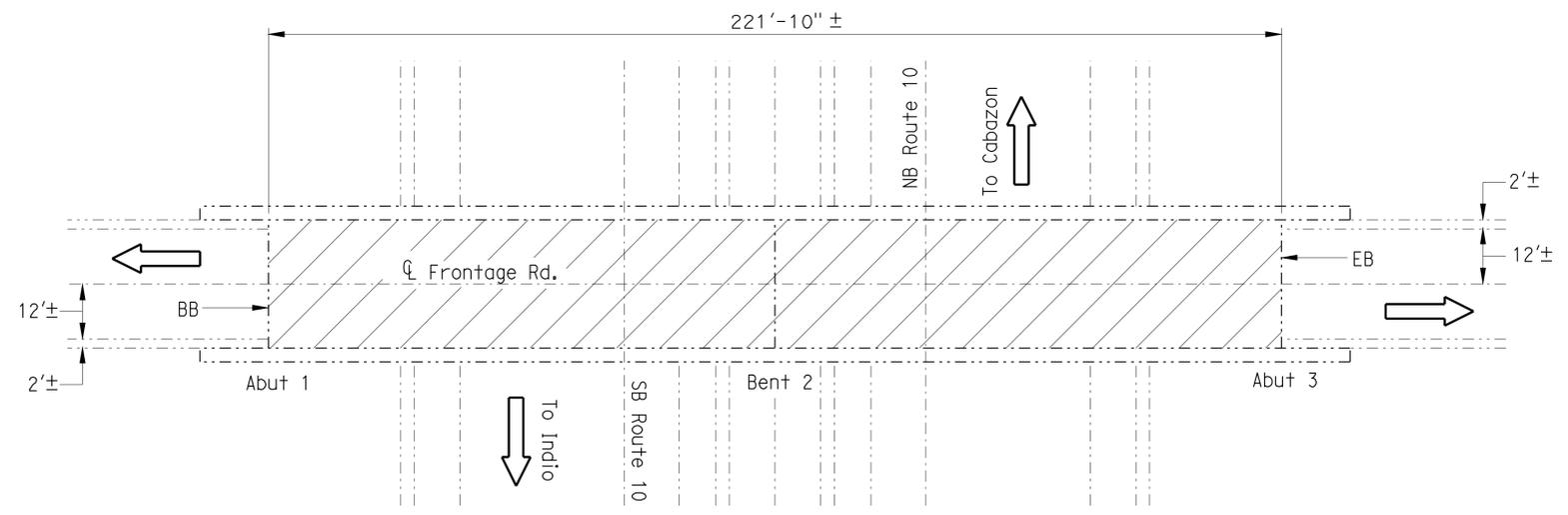
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10, 62, 86S, 111	Var	16	27
 REGISTERED CIVIL ENGINEER			8-24-10	DATE	
1-10-11 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.					



**WHITEWATER OC**  
 Br No. 56-0571, Riv, ROUTE 10, PM 27.23  
 SCALE: 1" = 20'

WHITEWATER OC	QUANTITIES	BRIDGE No. 56-0571
REMOVE UNSOUND CONCRETE	21	CF
CLEAN BRIDGE DECK	8,489	SQFT
CLEAN EXPANSION JOINT	71	LF
RAPID SETTING CONCRETE (PATCH)	21	CF
JOINT SEAL (MR 2")	71	LF
TREAT BRIDGE DECK	8,489	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	95	GAL

- NOTES:
- Indicates existing.
  - Indicates location of existing joint seal removal and placement of new joint seal.
  -  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



**WALL ROAD OC**  
 Br No. 56-0572, Riv, ROUTE 10, PM 30.80  
 SCALE: 1" = 20'

WALL ROAD OC	QUANTITIES	BRIDGE No. 56-0572
REMOVE UNSOUND CONCRETE	16	CF
CLEAN BRIDGE DECK	6,216	SQFT
RAPID SETTING CONCRETE (PATCH)	16	CF
TREAT BRIDGE DECK	6,216	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	69	GAL

 DESIGN ENGINEER	DESIGN	BY Q. Vo	CHECKED D. Floyd	LAYOUT	BY N. Kelley	CHECKED Q. Vo	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	Various	<b>ROUTE 10, 62, 86S &amp; 111 BRIDGES</b> GENERAL PLAN No. 2	
	DETAILS	BY N. Kelley	CHECKED D. Floyd	SPECIFICATIONS	BY R. Franti	PLANS AND SPECIFICATIONS COMPARED			R. Franti	POST MILE		Varies
	QUANTITIES	BY Q. Vo	CHECKED D. Floyd									

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

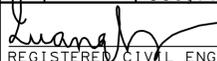
CU 08  
EA OP1401

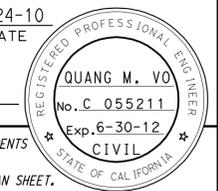
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 8-23-10, 8-24-10

SHEET 2 OF 13

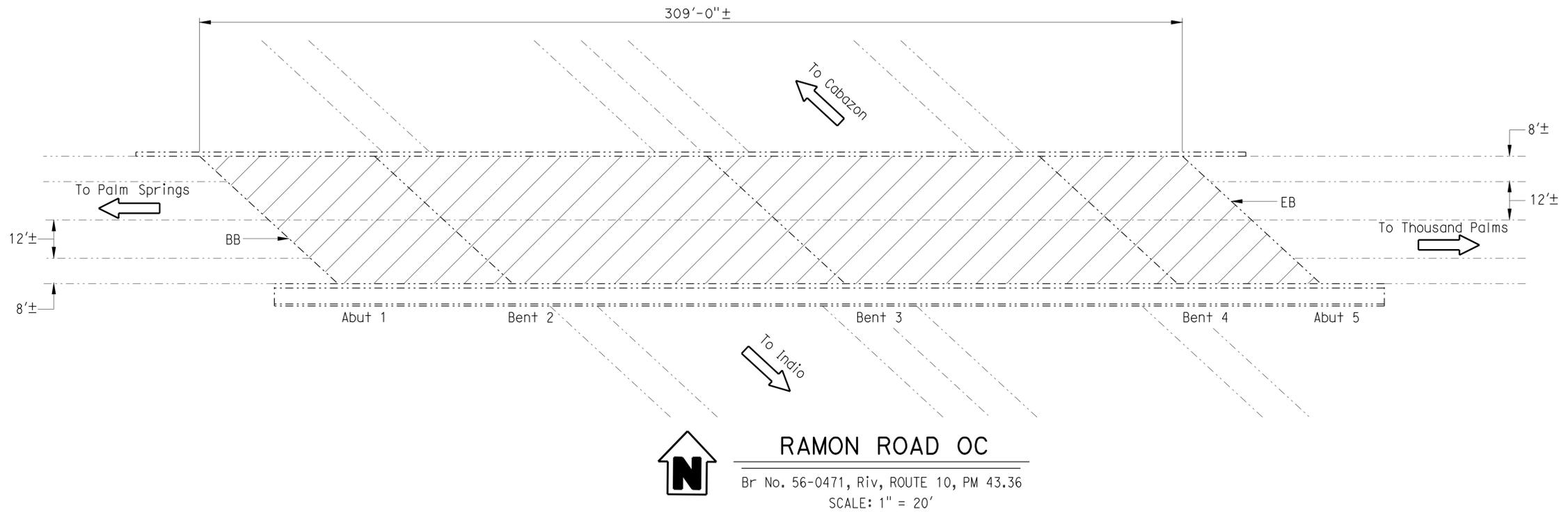
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10,62,86S,111	Var	17	27
 REGISTERED CIVIL ENGINEER			8-24-10 DATE		
1-10-11 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.					



NOTES:

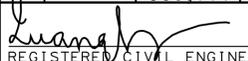
- Indicates existing.
-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

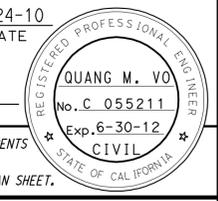


**RAMON ROAD OC**  
Br No. 56-0471, Riv, ROUTE 10, PM 43.36  
SCALE: 1" = 20'

RAMON ROAD OC	QUANTITIES	BRIDGE No. 56-0471
REMOVE UNSOUND CONCRETE		31 CF
CLEAN BRIDGE DECK		12,360 SQFT
RAPID SETTING CONCRETE (PATCH)		31 CF
TREAT BRIDGE DECK		12,360 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		137 GAL
PUBLIC SAFETY PLAN		LUMP SUM

 DESIGN ENGINEER	DESIGN	BY Q. Vo	CHECKED D. Floyd	LAYOUT	BY N. Kelley	CHECKED Q. Vo	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	Various	<b>ROUTE 10, 62, 86S &amp; 111 BRIDGES</b> GENERAL PLAN No. 3	
	DETAILS	BY N. Kelley	CHECKED D. Floyd	SPECIFICATIONS	BY R. Franti	PLANS AND SPECIFICATIONS COMPARED R. Franti			POST MILE	Varies		
	QUANTITIES	BY Q. Vo	CHECKED D. Floyd						REVISION DATES			
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA OP1401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	5-12-10 6-29-10 8-24-10	SHEET 3 OF 13

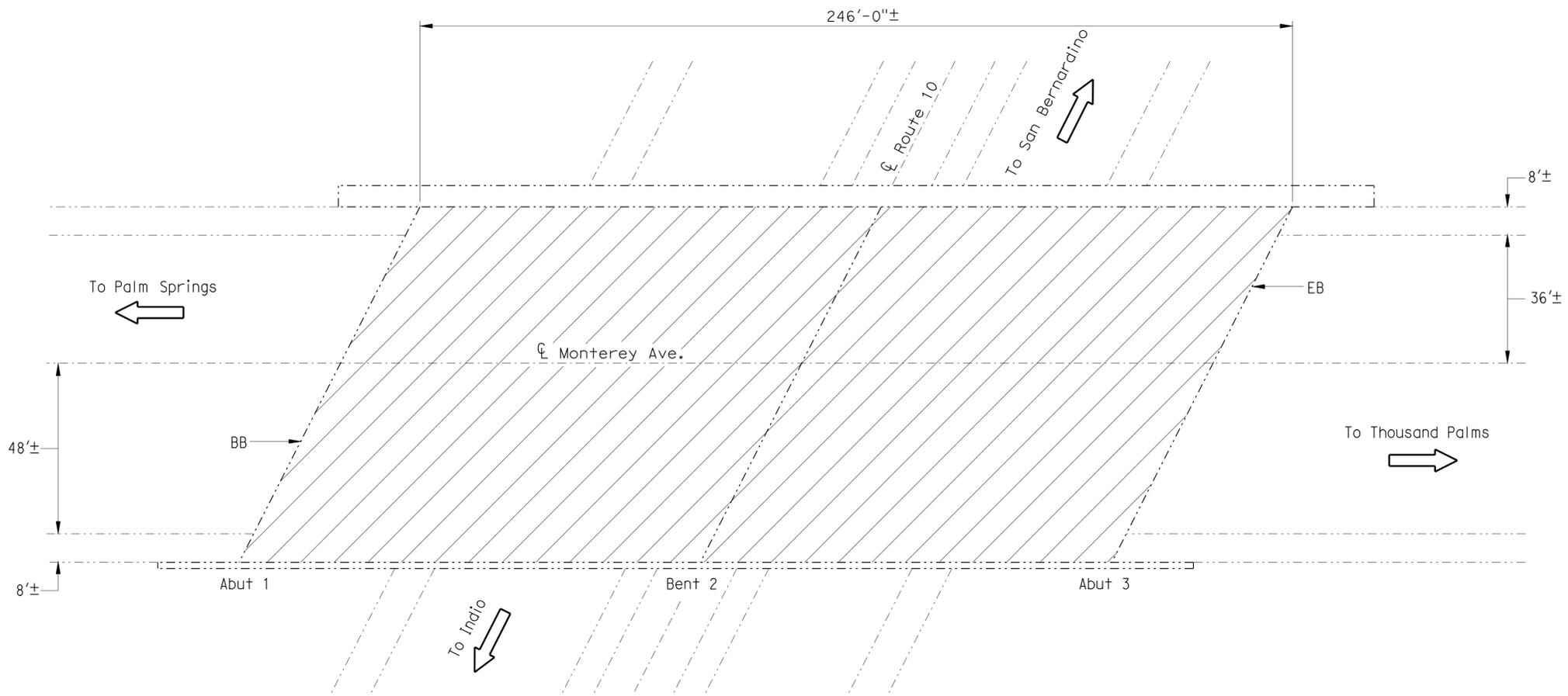
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10,62,86S,111	Var	18	27
 REGISTERED CIVIL ENGINEER			8-24-10	DATE	
1-10-11 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.					



NOTES:

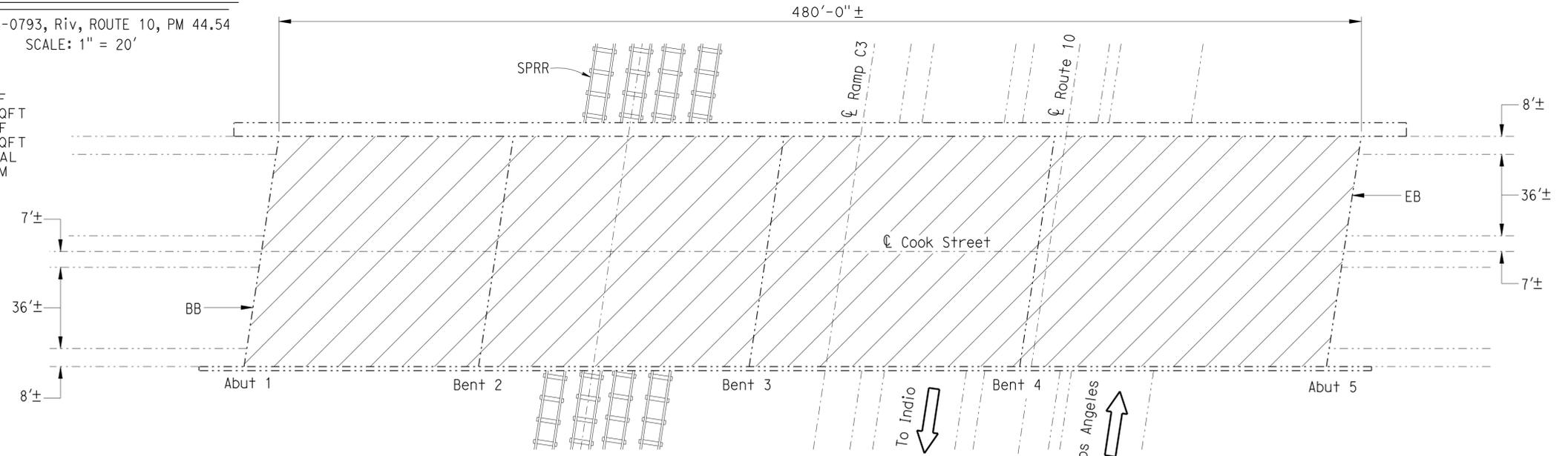
----- Indicates existing.

 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



**MONTEREY AVENUE OC**  
 Br No. 56-0793, Riv, ROUTE 10, PM 44.54  
 SCALE: 1" = 20'

MONTEREY AVENUE OC	QUANTITIES	BRIDGE No. 56-0793
REMOVE UNSOUND CONCRETE	62 CF	
CLEAN BRIDGE DECK	24,600 SQFT	
RAPID SETTING CONCRETE (PATCH)	62 CF	
TREAT BRIDGE DECK	24,600 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	273 GAL	
PUBLIC SAFETY PLAN	LUMP SUM	

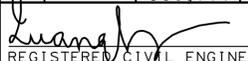


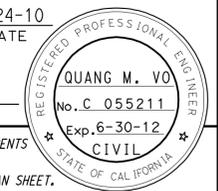
**COOK STREET OH**  
 BRIDGE No. 56-0787

COOK STREET OH	QUANTITIES
REMOVE UNSOUND CONCRETE	122 CF
CLEAN BRIDGE DECK	48,960 SQFT
RAPID SETTING CONCRETE (PATCH)	122 CF
TREAT BRIDGE DECK	48,960 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	554 GAL

**COOK STREET OH**  
 Br No. 56-0787, Riv, ROUTE 10, PM 46.90  
 SCALE: 1" = 30'

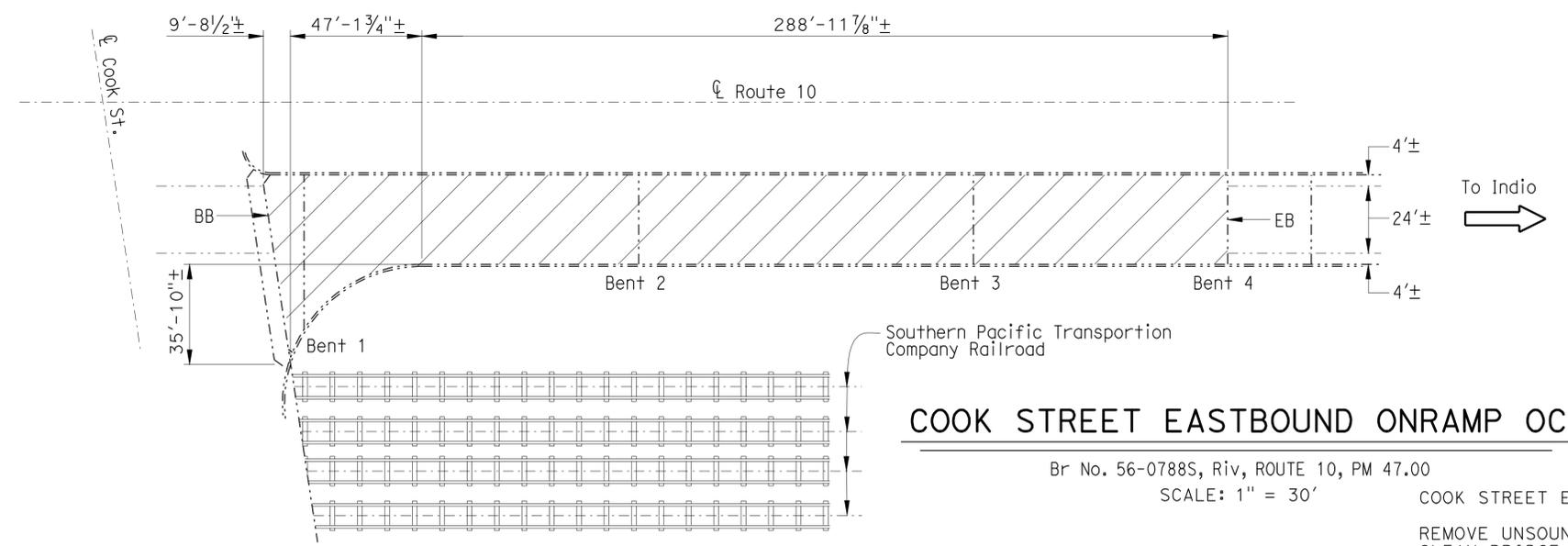
 DESIGN ENGINEER 8-24-10	DESIGN	BY Q. Vo	CHECKED D. Floyd	LAYOUT	BY N. Kelley	CHECKED Q. Vo	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	<b>ROUTE 10, 62, 86S &amp; 111 BRIDGES</b> GENERAL PLAN No. 4	
	DETAILS	BY N. Kelley	CHECKED D. Floyd	SPECIFICATIONS	BY R. Franti	PLANS AND SPECIFICATIONS COMPARED			POST MILE	Varies		
	QUANTITIES	BY Q. Vo	CHECKED D. Floyd			R. Franti				Varies		
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA OP1401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 5-12-10 6-29-10 8-24-10	SHEET 4 OF 13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10, 62, 86S, 111	Var	19	27
 REGISTERED CIVIL ENGINEER			8-24-10	DATE	
1-10-11 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.					



NOTES:

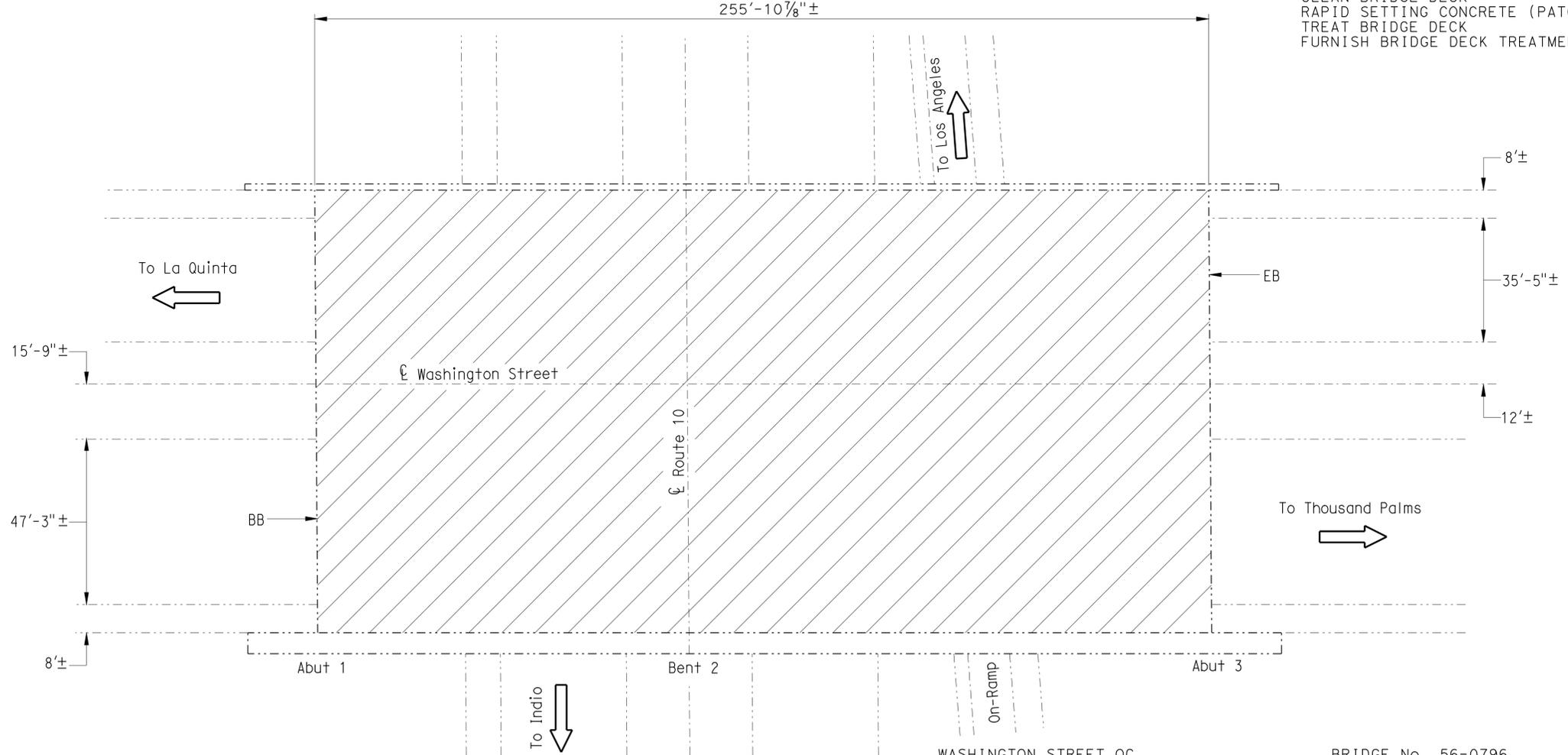
- Indicates existing.
-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



### COOK STREET EASTBOUND ONRAMP OC

Br No. 56-0788S, Riv, ROUTE 10, PM 47.00  
SCALE: 1" = 30'

COOK STREET EASTBOUND ONRAMP OC QUANTITIES		BRIDGE No. 56-0788S	
REMOVE UNSOUND CONCRETE	30	CF	
CLEAN BRIDGE DECK	11,977	SQFT	
RAPID SETTING CONCRETE (PATCH)	30	CF	
TREAT BRIDGE DECK	11,977	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	133	GAL	



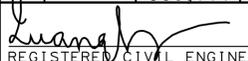
### WASHINGTON STREET OC

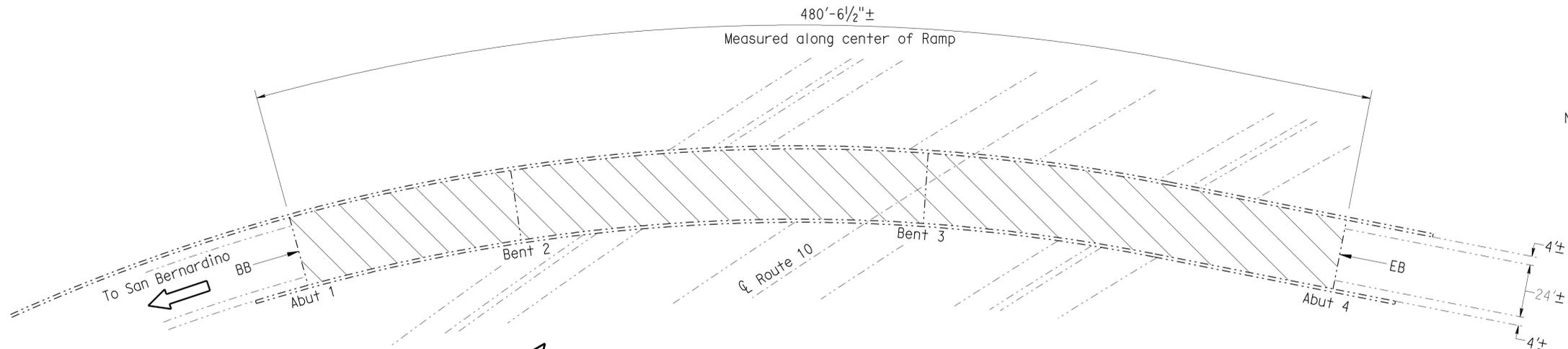
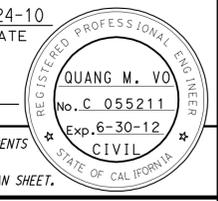
Br No. 56-0796, Riv, ROUTE 10, PM 50.50  
SCALE: 1" = 20'

WASHINGTON STREET OC QUANTITIES		BRIDGE No. 56-0796	
REMOVE UNSOUND CONCRETE	81	CF	
CLEAN BRIDGE DECK	32,512	SQFT	
RAPID SETTING CONCRETE (PATCH)	81	CF	
TREAT BRIDGE DECK	32,512	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	361	GAL	
PUBLIC SAFETY PLAN		LUMP	SUM

 DESIGN ENGINEER	DESIGN	BY Q. Vo	CHECKED D. Floyd	LAYOUT	BY N. Kelley	CHECKED Q. Vo	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	<b>ROUTE 10, 62, 86S &amp; 111 BRIDGES</b>				
	DETAILS	BY N. Kelley	CHECKED D. Floyd	SPECIFICATIONS	BY R. Franti	CHECKED R. Franti			POST MILE					
	QUANTITIES	BY Q. Vo	CHECKED D. Floyd			CHECKED R. Franti			VARIES					
<b>GENERAL PLAN No. 5</b>										DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 5 OF 13		

USERNAME => HSTFK DATE PLOTTED => 10-JAN-2011 TIME PLOTTED => 14:12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10,62,86S,111	Var	20	27
 REGISTERED CIVIL ENGINEER			8-24-10	DATE	
1-10-11 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.					

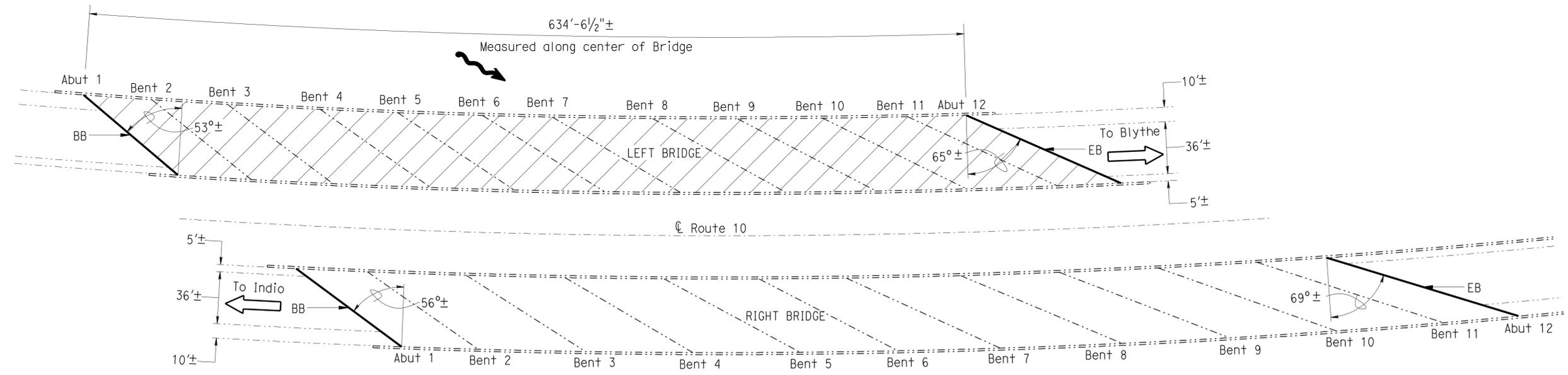


**NORTH INDIO ON-RAMP OC**  
 Br No. 56-0627K, Riv, ROUTE 10, PM 52.69  
 SCALE: 1" = 30'

NORTH INDIO ON-RAMP OC QUANTITIES BRIDGE No. 56-0627K

REMOVE UNSOUND CONCRETE	38	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	15,380	SQFT
RAPID SETTING CONCRETE (PATCH)	38	CF
FURNISH POLYESTER CONCRETE OVERLAY	1,154	CF
PLACE POLYESTER CONCRETE OVERLAY	15,380	SQFT

- NOTES:
- Indicates existing.
  - Indicates location of existing joint seal removal and placement of new joint seal.
  -  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
  -  Indicates limits of 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".



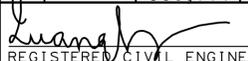
**THOUSAND PALMS WASH**  
 Br No. 56-0610L/R, Riv, ROUTE 10, PM R53.80  
 SCALE: 1" = 40'

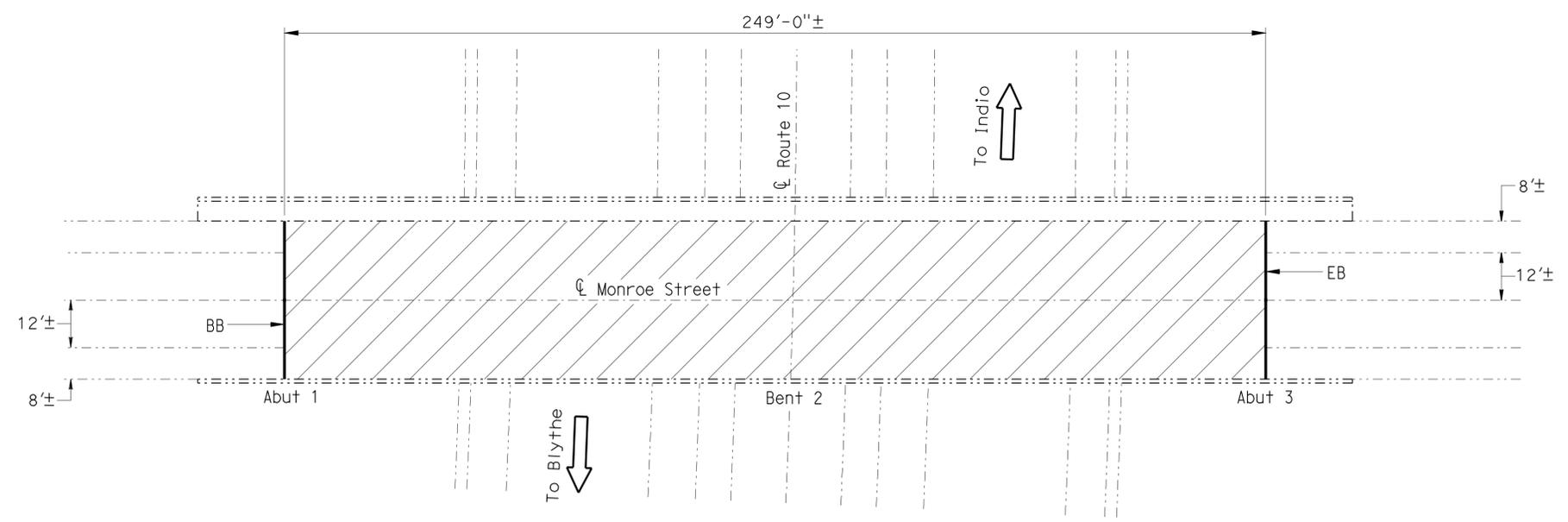
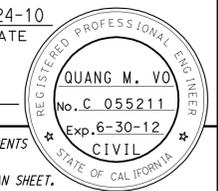
THOUSAND PALMS WASH QUANTITIES BRIDGE No. 56-0610L/R

REMOVE UNSOUND CONCRETE	92	CF
CLEAN BRIDGE DECK	33,430	SQFT
CLEAN EXPANSION JOINT	443	LF
RAPID SETTING CONCRETE (PATCH)	92	CF
JOINT SEAL (MR 2")	443	LF
TREAT BRIDGE DECK	33,430	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	372	GAL

 DESIGN ENGINEER 8-24-10	DESIGN	BY Q. Vo	CHECKED D. Floyd	LAYOUT	BY N. Kelley	CHECKED Q. Vo	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	<b>ROUTE 10, 62, 86S &amp; 111 BRIDGES</b> GENERAL PLAN No. 6
	DETAILS	BY N. Kelley	CHECKED D. Floyd	SPECIFICATIONS	BY R. Franti	CHECKED R. Franti			POST MILE	Varies	
	QUANTITIES	BY Q. Vo	CHECKED D. Floyd								
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 08 EA OP1401	DISREGARD PRINTS BEARING EARLIER REVISION DATES 5-12-10 6-29-10 8-24-10		SHEET 6 OF 13

USERNAME => HSTFK DATE PLOTTED => 10-JAN-2011 TIME PLOTTED => 14:12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10,62,86S,111	Var	21	27
 REGISTERED CIVIL ENGINEER			8-24-10	DATE	
1-10-11 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.					



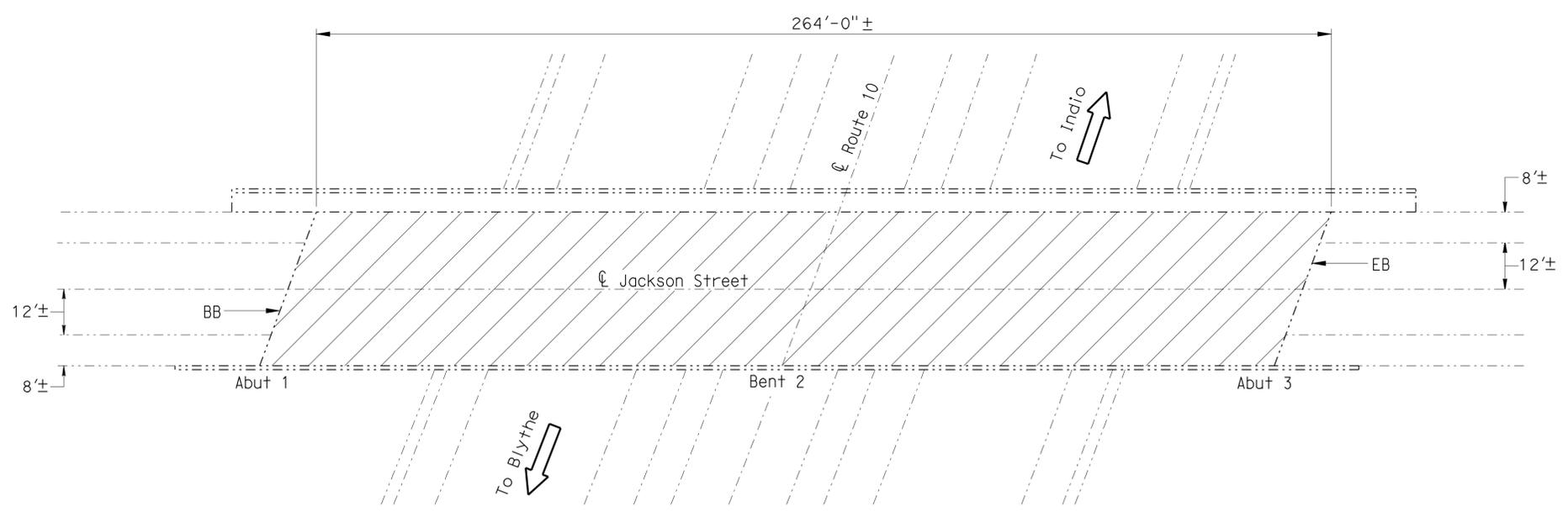
- NOTES:
- Indicates existing.
  - Indicates location of existing joint seal removal and placement of new joint seal.
  -  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



### MONROE STREET OC

Br No. 56-0611, Riv, ROUTE 10, PM R54.74  
SCALE: 1" = 20'

MONROE STREET OC	QUANTITIES	BRIDGE No. 56-0611
REMOVE UNSOUND CONCRETE	25 CF	
CLEAN BRIDGE DECK	9,960 SQFT	
CLEAN EXPANSION JOINT	81 LF	
RAPID SETTING CONCRETE (PATCH)	25 CF	
JOINT SEAL (MR 1")	81 LF	
TREAT BRIDGE DECK	9,960 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	111 GAL	



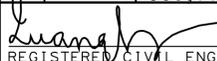
### JACKSON STREET OC

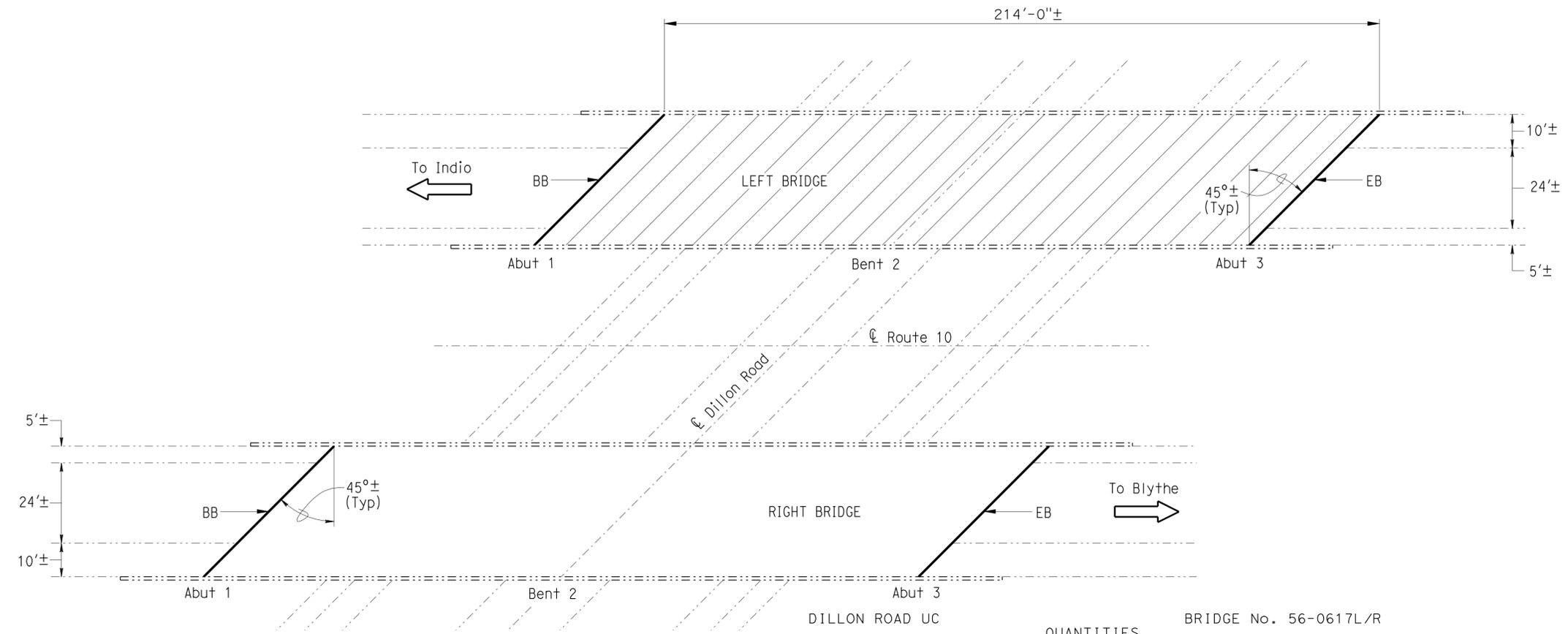
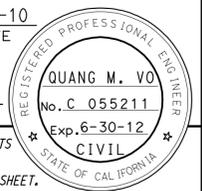
Br No. 56-0612, Riv, ROUTE 10, PM R55.74  
SCALE: 1" = 20'

JACKSON STREET OC	QUANTITIES	BRIDGE No. 56-0612
REMOVE UNSOUND CONCRETE	26 CF	
CLEAN BRIDGE DECK	10,560 SQFT	
RAPID SETTING CONCRETE (PATCH)	26 CF	
TREAT BRIDGE DECK	10,560 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	117 GAL	

 DESIGN ENGINEER	DESIGN	BY Q. Vo	CHECKED D. Floyd	LAYOUT	BY N. Kelley	CHECKED Q. Vo	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	Various	<b>ROUTE 10 ,62, 86S &amp; 111 BRIDGES</b> GENERAL PLAN No. 7
	DETAILS	BY N. Kelley	CHECKED D. Floyd	SPECIFICATIONS	BY R. Franti	CHECKED R. Franti			POST MILE	Varies	
	QUANTITIES	BY Q. Vo	CHECKED D. Floyd			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	CU 08 EA OP1401	

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07) FILE => 08\_0p1401\_ggp.dgn

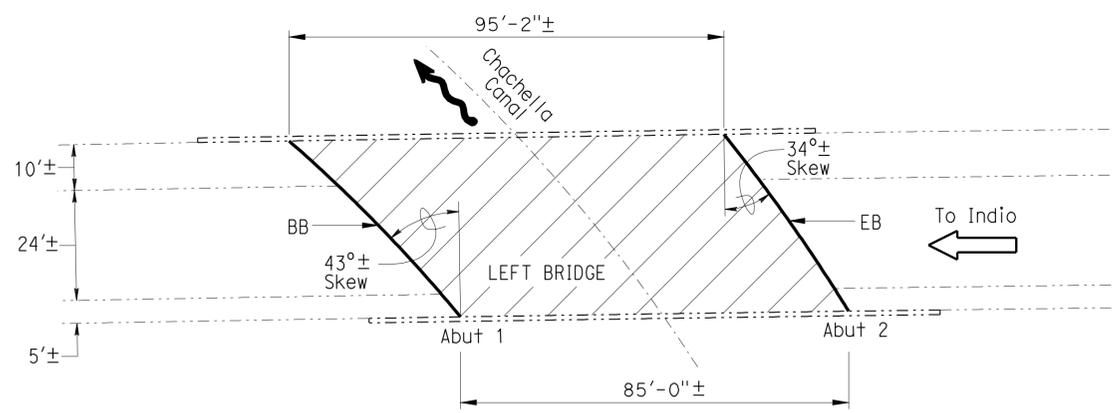
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10, 62, 86S, 111	Var	22	27
 REGISTERED CIVIL ENGINEER			8-24-10	DATE	
1-10-11 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.					



- NOTES:
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  - Indicates location of existing joint seal removal and placement of new joint seal.
  -  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

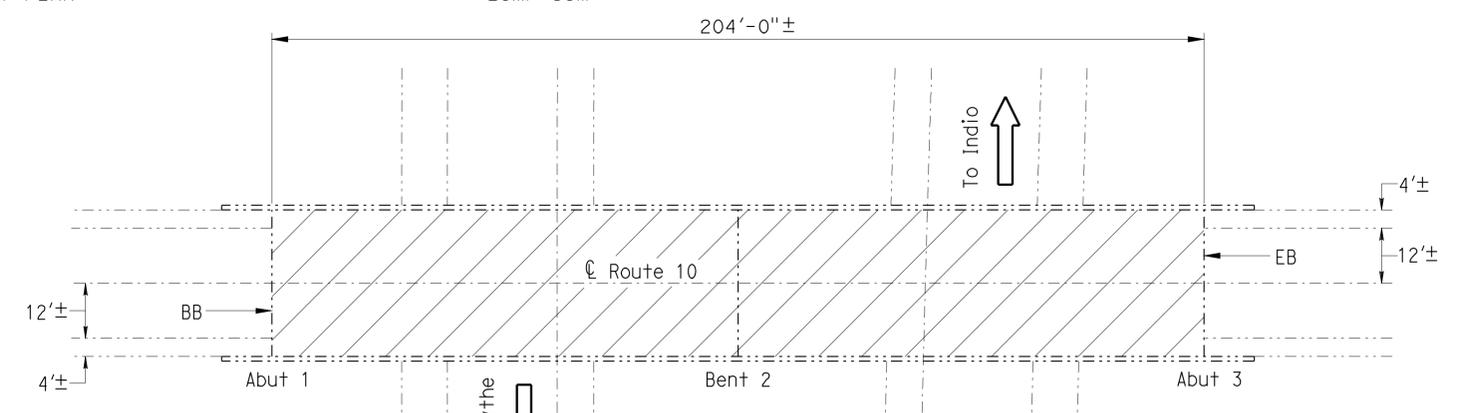
**DILLON ROAD UC**  
 Br No. 56-0617L/R, Riv, ROUTE 10, PM R58.89  
 SCALE: 1" = 20'

DILLON ROAD UC		QUANTITIES	BRIDGE No. 56-0617L/R
REMOVE UNSOUND CONCRETE		21	CF
CLEAN BRIDGE DECK		8,346	SQFT
CLEAN EXPANSION JOINT		224	LF
RAPID SETTING CONCRETE (PATCH)		21	CF
JOINT SEAL (MR 1")		224	LF
TREAT BRIDGE DECK		8,346	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		93	GAL
PUBLIC SAFETY PLAN			LUMP SUM



**COACHELLA CANAL**  
 Br No. 56-0079L, Riv, ROUTE 10, PM R60.39  
 SCALE: 1" = 20'

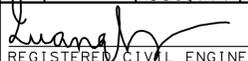
COACHELLA CANAL		QUANTITIES	BRIDGE No. 56-0079L
REMOVE UNSOUND CONCRETE		9	CF
CLEAN BRIDGE DECK		3,714	SQFT
CLEAN EXPANSION JOINT		102	LF
RAPID SETTING CONCRETE (PATCH)		9	CF
JOINT SEAL (MR 1/2")		102	LF
TREAT BRIDGE DECK		3,714	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		41	GAL

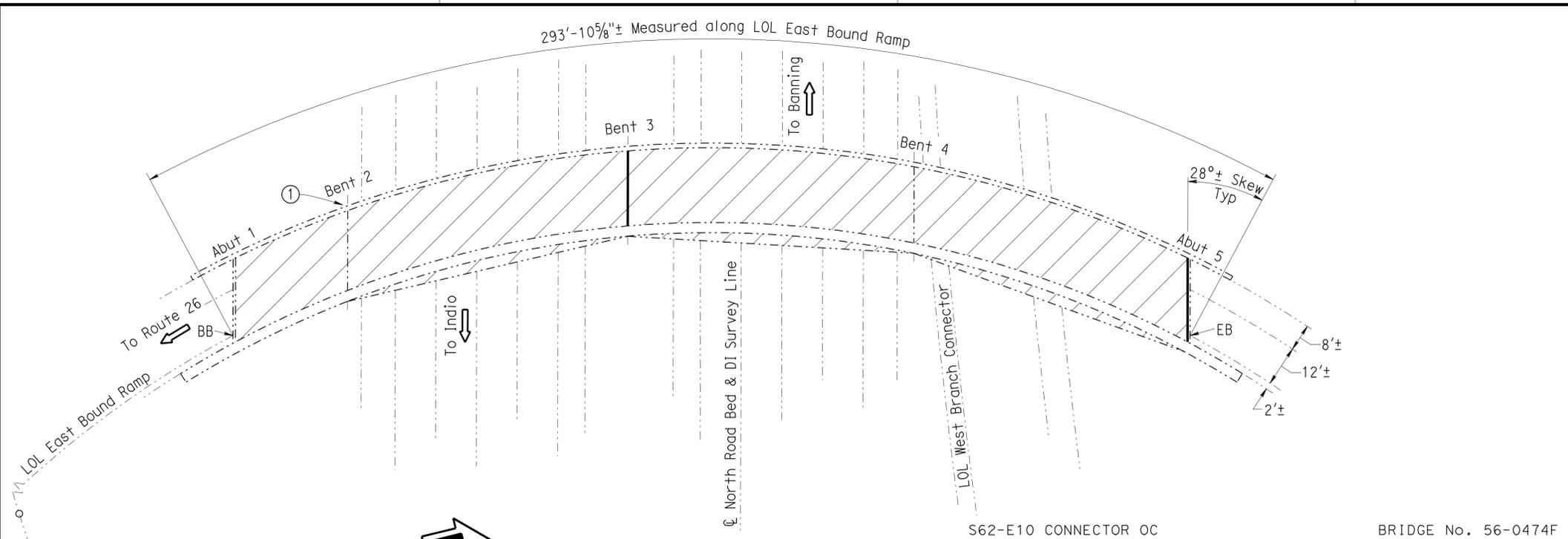
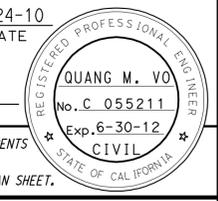


**CHIRIACO OC**  
 Br No. 56-0573, Riv, ROUTE 10, PM R86.07  
 SCALE: 1" = 20'

CHIRIACO OC		QUANTITIES	BRIDGE No. 56-0573
REMOVE UNSOUND CONCRETE		16	CF
CLEAN BRIDGE DECK		6,528	SQFT
RAPID SETTING CONCRETE (PATCH)		16	CF
TREAT BRIDGE DECK		6,528	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		73	GAL

 DESIGN ENGINEER 8-24-10	DESIGN	BY Q. Vo	CHECKED D. Floyd	LAYOUT	BY N. Kelley	CHECKED Q. Vo	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION OF MAINTENANCE</b> <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	Various	<b>ROUTE 10, 62, 86S &amp; 111 BRIDGES</b> <b>GENERAL PLAN No. 8</b>
	DETAILS	BY N. Kelley	CHECKED D. Floyd	SPECIFICATIONS	BY R. Franti	CHECKED R. Franti			POST MILE	Varies	
	QUANTITIES	BY Q. Vo	CHECKED D. Floyd						REVISION DATES	5-17-10, 6-29-10, 8-24-10	
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA OP1401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 8 OF 13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10,62, 86S, 111	Var	23	27
 REGISTERED CIVIL ENGINEER			8-24-10	DATE	
1-10-11 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.					

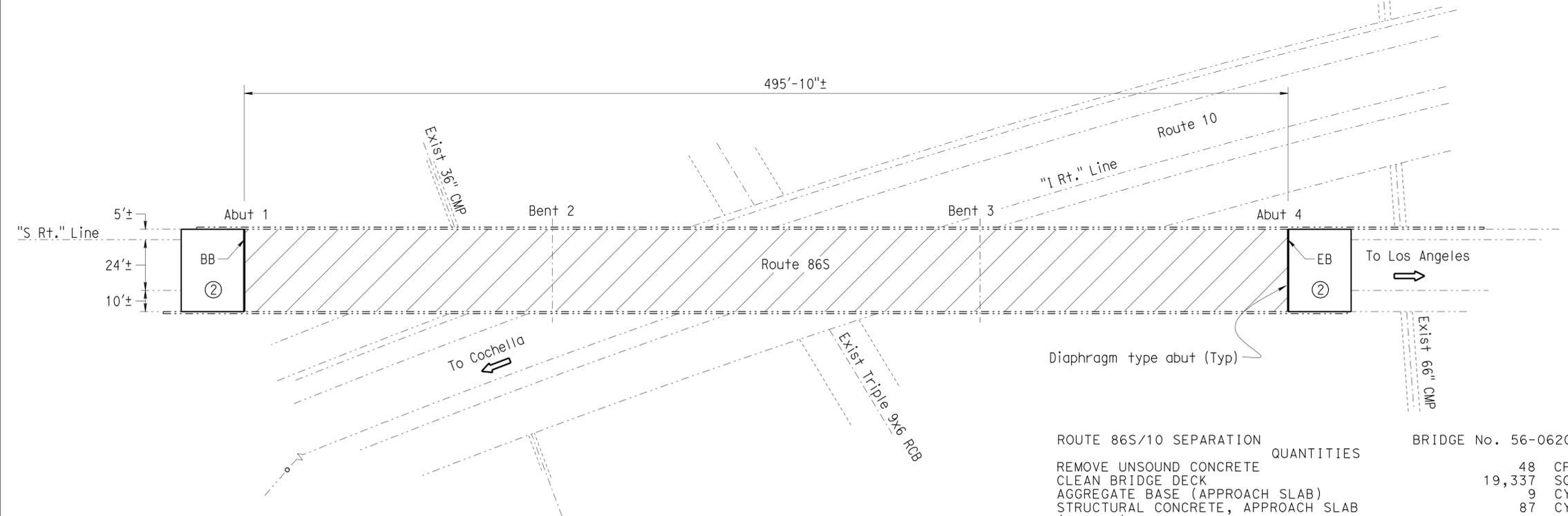


### S62-E10 CONNECTOR OC

Br No. 56-0474F, Riv, ROUTE 62, PM R0.01  
SCALE: 1" = 20'

QUANTITIES	BRIDGE No. 56-0474F
REMOVE UNSOUND CONCRETE	31 CF
CLEAN BRIDGE DECK	6,232 SQFT
CLEAN EXPANSION JOINT	57 LF
RAPID SETTING CONCRETE (PATCH)	31 CF
JOINT SEAL (MR 1")	57 LF
TREAT BRIDGE DECK	6,232 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	69 GAL

- NOTES:
- Indicates existing.
  - Indicates location of existing joint seal removal and placement of new joint seal.
  -  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
  - ① Patch the spall. Approximate location and size is 6" x 6" x 3"
  - ② Location of Approach Slab Type R(30D).

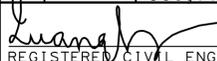
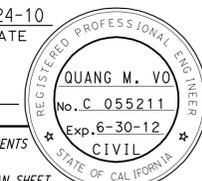


### ROUTE 86S/10 SEPARATION

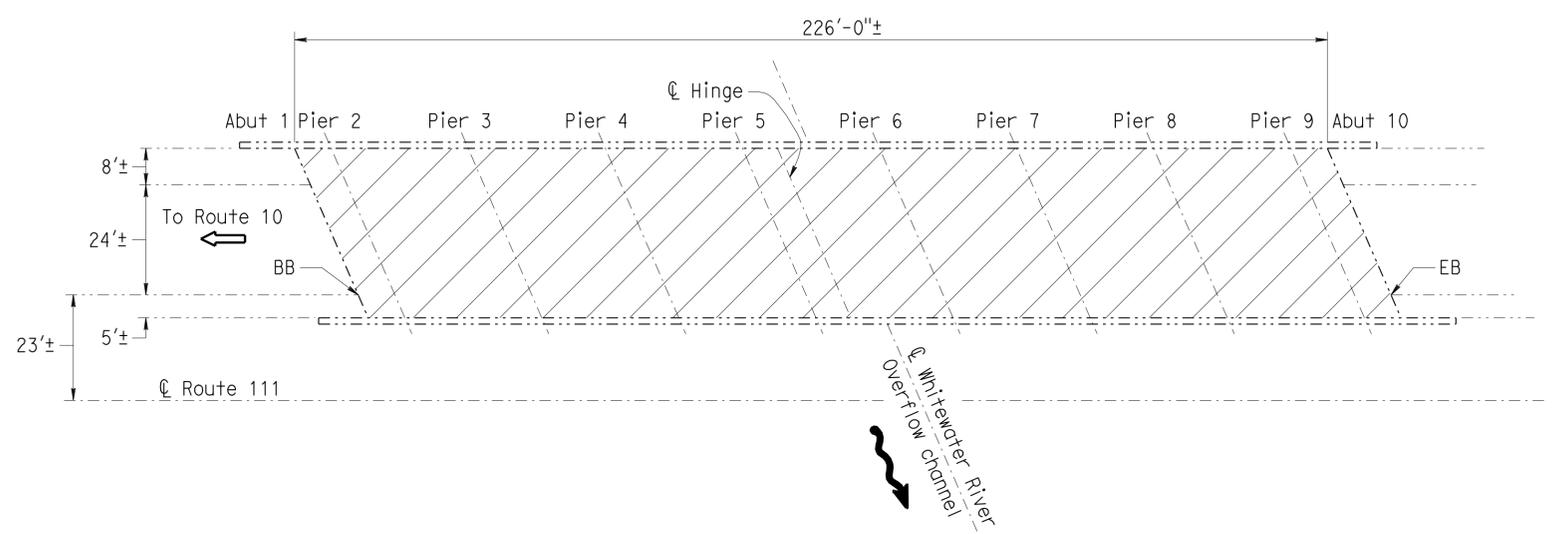
Br No. 56-0620G, Riv, ROUTE 86S, PM R22.94  
SCALE: 1" = 30'

QUANTITIES	BRIDGE No. 56-0620G
REMOVE UNSOUND CONCRETE	48 CF
CLEAN BRIDGE DECK	19,337 SQFT
AGGREGATE BASE (APPROACH SLAB)	9 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	87 CY
PAVING NOTCH EXTENSION	56 CF
RAPID SETTING CONCRETE (PATCH)	48 CF
JOINT SEAL (MR 2")	79 LF
TREAT BRIDGE DECK	19,337 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	215 GAL
PUBLIC SAFETY PLAN	LUMP SUM

 DESIGN ENGINEER	DESIGN	BY Q. Vo	CHECKED D. Floyd	LAYOUT	BY Dale Kubochi	CHECKED Q. Vo	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	<b>ROUTE 10, 62, 86S &amp; 111 BRIDGES</b>									
	DETAILS	BY Dale Kubochi	CHECKED D. Floyd	SPECIFICATIONS	BY R. Franti	CHECKED R. Franti			POST MILE						<b>GENERAL PLAN No. 9</b>				
	QUANTITIES	BY Q. Vo	CHECKED D. Floyd	REVISION DATES	<table border="1" style="font-size: 8px;"> <tr> <td>8-24-10</td> <td>8-24-10</td> <td>8-25-10</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	8-24-10			8-24-10										
8-24-10	8-24-10	8-25-10																	
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	<table border="1" style="width: 100px;"> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> </table>	0	1	2	3	CU 08 EA OP1401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	9	13			
0	1	2	3																

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10,62, 86S, 111	Var	24	27
 REGISTERED CIVIL ENGINEER			8-24-10 DATE		
1-10-11 PLANS APPROVAL DATE					
<small>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.</small>					

- NOTES:
- Indicates existing.
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  -  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



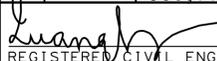
### WHITEWATER RIVER OVERFLOW

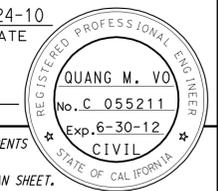
Br No. 56-0241R, Riv, ROUTE 111, PM R60.55  
SCALE: 1" = 20'

WHITEWATER RIVER OVERFLOW	BRIDGE No. 56-0241R
QUANTITIES	
REMOVE UNSOUND CONCRETE	42 CF
CLEAN BRIDGE DECK	8,362 SQFT
RAPID SETTING CONCRETE (PATCH)	42 CF
TREAT BRIDGE DECK	8,362 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	93 GAL

 DESIGN ENGINEER	DESIGN	BY Q. Vo	CHECKED D. Floyd	LAYOUT	BY Dale Kubochi	CHECKED Q. Vo	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	<b>ROUTE 10, 62, 86S &amp; 111 BRIDGES</b>				
	DETAILS	BY Dale Kubochi	CHECKED D. Floyd	SPECIFICATIONS	BY R. Franti	CHECKED R. Franti			POST MILE	<b>GENERAL PLAN No. 10</b>				
	QUANTITIES	BY Q. Vo	CHECKED D. Floyd						VARIES					
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 08 EA OP1401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 10 OF 13		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10,62, 86S,111	Var	25	27

  
 REGISTERED CIVIL ENGINEER DATE 8-24-10  
 1-10-11  
 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.

DECK REPAIR TABLE			
REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NUMBER	BRIDGE NAME	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH DAMAGE (INCHES)
56-0456	EAST CABAZON RAMP OC	1	3
56-0529R	MILLARD CANYON WASH	1	3
56-0571	WHITewater WASH	1	3
56-0572	WALL ROAD OC	1	3
56-0471	RAMON ROAD OC	1	3
56-0793	MONTEREY AVENUE OC	1	3
56-0787	COOK STREET OH	1	3
56-0788S	COOK STREET EASTBOUND ON-RAMP OC	1	3
56-0796	WASHINGTON STREET OC	1	3
56-0627K	NORTH INDIO ON-RAMP OC	1	3
56-0610L	THOUSAND PALMS WASH	1	3
56-0611	MONROE STREET OC	1	3
56-0612	JACKSON STREET OC	1	3
56-0617L	DILLON ROAD OC	1	3
56-0573	CHIRIACO OC	1	3
56-0079L	COACHELLA CANAL	1	3
56-0474F	S62-E10 CONNECTOR OC	2	3
56-0620G	ROUTE 86S/10 SEPARATION	1	3
56-0241R	WHITewater RIVER OVERFLOW	2	3

JOINT SEAL TABLE							
BRIDGE NUMBER	BRIDGE NAME	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	Approx DEPTH TO CLEAN Exp JOINT (INCHES)
56-0571	WHITE WATER OC	Abut 1	BB	2	35	NO	12
		Abut 3	EB	2	36	NO	12
56-0610L	THOUSAND PALMS WASH	Abut 1	BB	2	86	NO	12
		Abut 12	EB	2	122	NO	12
56-0610R	THOUSAND PALMS WASH	Abut 1	BB	2	91	NO	12
		Abut 12	EB	2	144	NO	12
56-0611	MONROE STREET UC	Abut 1	BB	1	40	NO	12
		Abut 3	EB	1	41	NO	12
56-0617L	DILLON ROAD UC	Abut 1	BB	1	56	NO	12
		Abut 3	EB	1	56	NO	12
56-0617R	DILLON ROAD UC	Abut 1	BB	1	56	NO	12
		Abut 3	EB	1	56	NO	12
56-0079L	COACHELLA CANAL	Abut 1	BB	1/2	54	NO	12
		Abut 2	EB	1/2	48	NO	12
56-0474F	S62-E10 CONNECTOR OC	Bent 3	EJ	1	23	NO	12
		Abut 5	EB	1	34	NO	12
56-0620G	ROUTE 86S/10 SEPARATION	Abut 1	BB	2	39	NO	12
		Abut 4	EB	2	40	NO	12

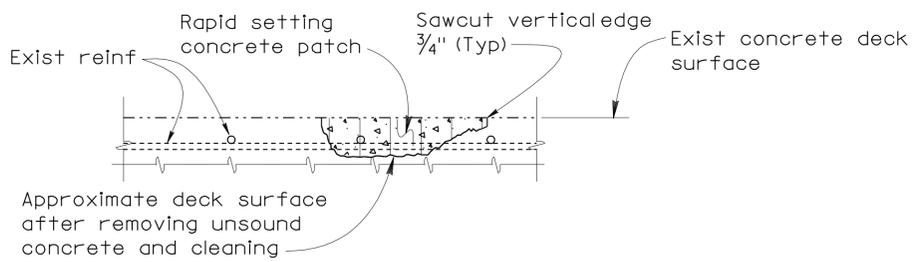
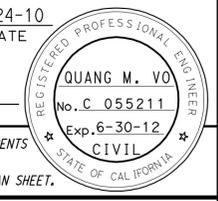
**LEGEND:**  
 BB - PAVING NOTCH AT BEGINNING OF BRIDGE  
 EB - PAVING NOTCH AT END OF BRIDGE  
 EJ - EXPANSION JOINT

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)	DESIGN	BY Q. Vo	CHECKED D. Floyd	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 10, 62, 86S & 111 BRIDGES		
	DETAILS	BY N. Kelley	CHECKED D. Floyd			POST MILE			Various	JOINT SEAL DETAILS No. 1
	QUANTITIES	BY Q. Vo	CHECKED D. Floyd	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA OP1401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES		

FILE => 08\_0p1401\_kjsdet1.dgn

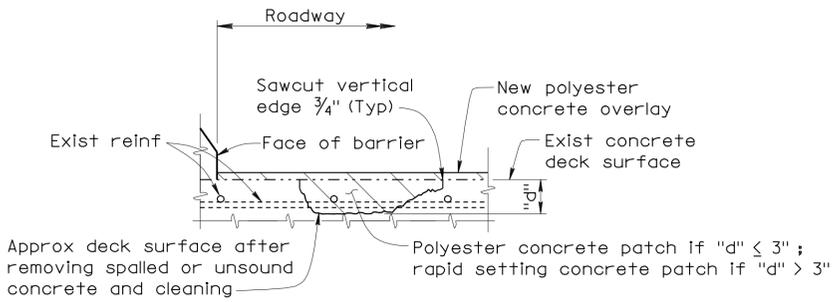
USERNAME => HSTFK DATE PLOTTED => 10-JAN-2011 TIME PLOTTED => 14:13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	10,62, 86S, 111	Var	26	27
REGISTERED CIVIL ENGINEER			DATE	8-24-10	
1-10-11			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.					



**DECK REPAIR DETAIL**

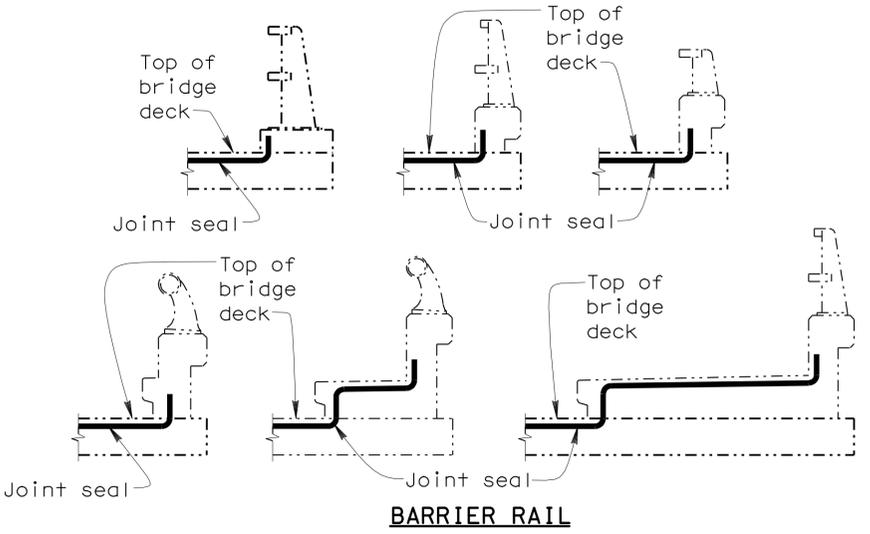
Notes: Reinforcement may be encountered during deck concrete removal.



**DECK REPAIR DETAIL - OVERLAY**

Notes: Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal.  
NO SCALE

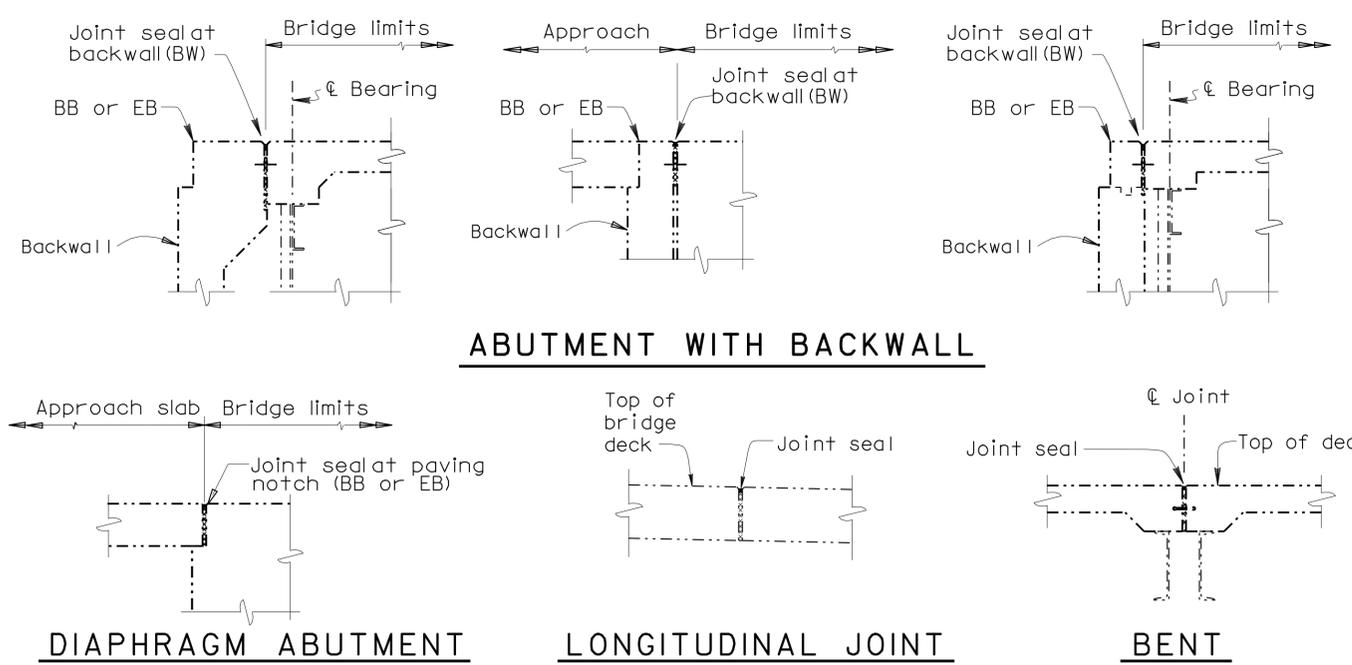
- NOTES:
- Indicates existing.
  - [Hatched Box] Indicates limits of remove unsound concrete and patch with rapid setting concrete.
  - [Diagonal Line Box] Indicates limits of new polyester concrete.



**JOINT SEAL AT LOW SIDE OF DECK**

Notes: Details shown for illustration purposes only. For use only where deck joint matches the sidewalk, curb or barrier rail joint.

- 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



**JOINT SEAL LOCATION**

DESIGN	BY Q. Vo	CHECKED D. Floyd
DETAILS	BY N. Kelley	CHECKED D. Floyd
QUANTITIES	BY Q. Vo	CHECKED D. Floyd

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Various  
**ROUTE 10, 62, 86S & 111 BRIDGES**  
**JOINT SEAL DETAILS No. 2**

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