

INDEX OF PLANS

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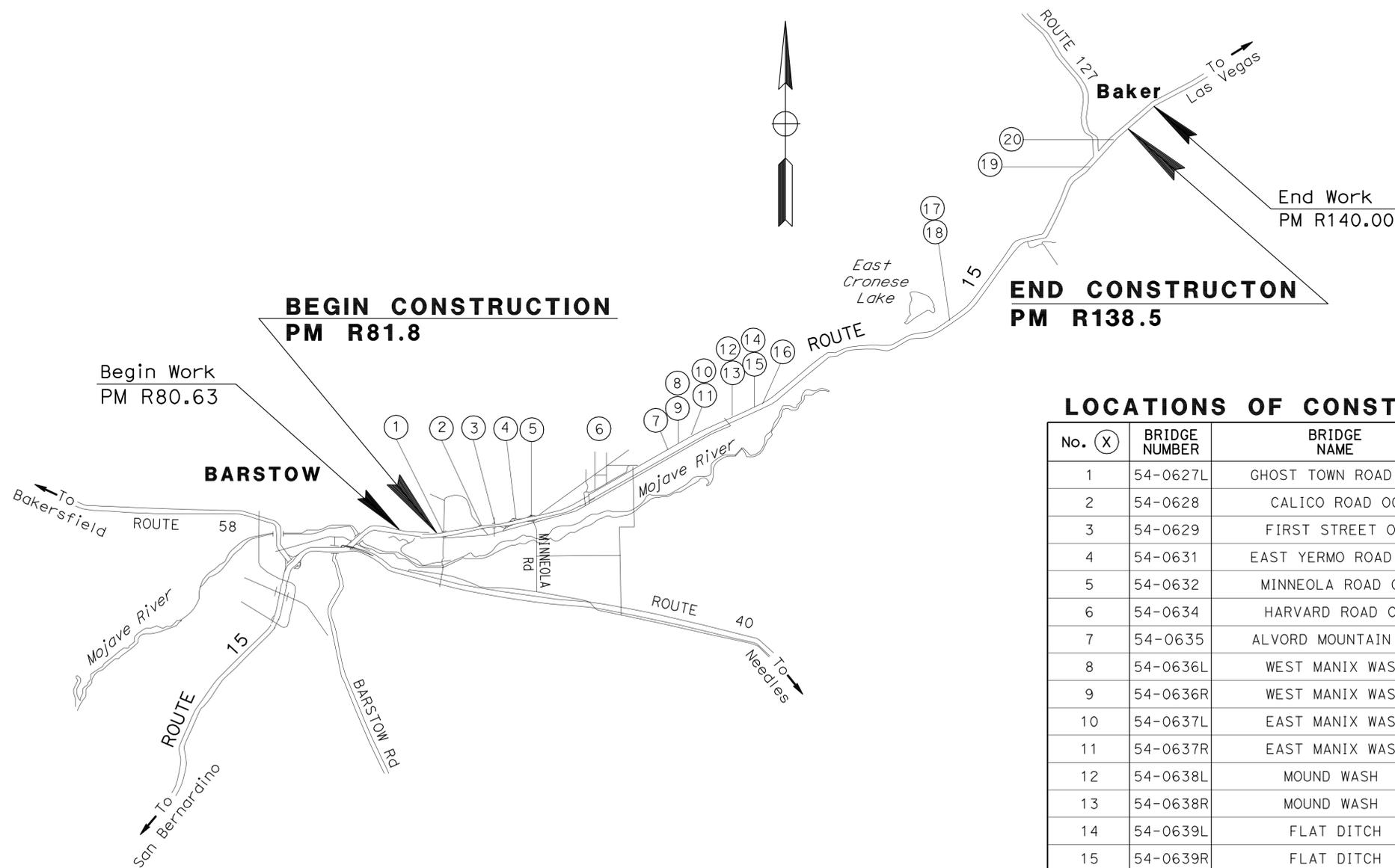
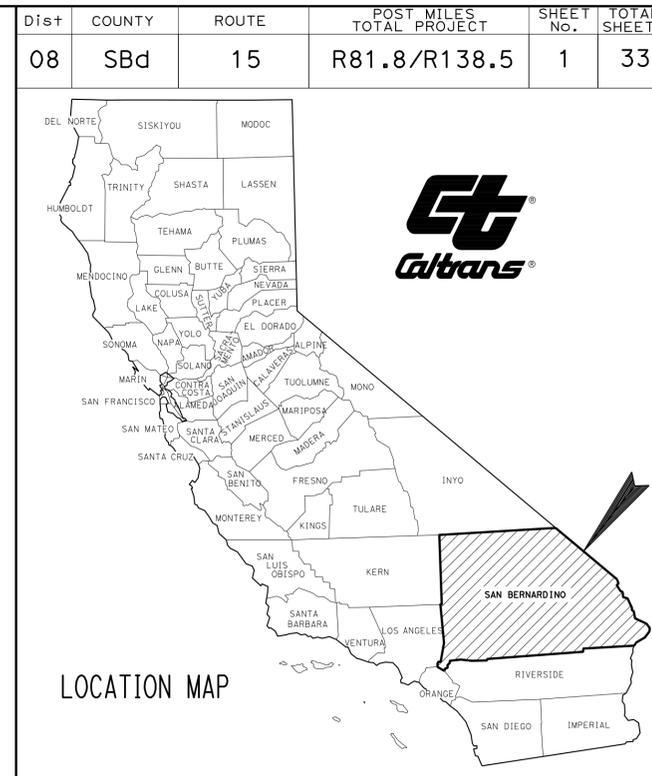
STRUCTURE PLANS

23-33	REMOVE AC/POLYESTER OVERLAY
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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 SAN BERNARDINO COUNTY**  
**AT VARIOUS LOCATIONS**  
**FROM GHOST TOWN ROAD UNDERCROSSING**  
**TO EAST BAKER OVERCROSSING**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



**LOCATIONS OF CONSTRUCTION**

No.	BRIDGE NUMBER	BRIDGE NAME	PM
1	54-0627L	GHOST TOWN ROAD UC	R81.83
2	54-0628	CALICO ROAD OC	R84.64
3	54-0629	FIRST STREET OC	R85.65
4	54-0631	EAST YERMO ROAD OC	R86.38
5	54-0632	MINNEOLA ROAD OC	R88.48
6	54-0634	HARVARD ROAD OC	R96.41
7	54-0635	ALVORD MOUNTAIN OC	R99.49
8	54-0636L	WEST MANIX WASH	R100.23
9	54-0636R	WEST MANIX WASH	R100.23
10	54-0637L	EAST MANIX WASH	R100.67
11	54-0637R	EAST MANIX WASH	R100.67
12	54-0638L	MOUND WASH	R101.27
13	54-0638R	MOUND WASH	R101.27
14	54-0639L	FLAT DITCH	R101.48
15	54-0639R	FLAT DITCH	R101.48
16	54-0640	FIELD ROAD OC	R103.63
17	54-0642L	MOJAVE RIVER OVERFLOW	R120.05
18	54-0642R	MOJAVE RIVER OVERFLOW	R120.05
19	54-0609S	WEST BAKER OFF-RAMP OC	R135.80
20	54-0611S	EAST BAKER OC	R138.45

NO SCALE

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

PROJECT MANAGER  
CATALINO PINING III

DESIGN ENGINEER  
JAY L. GWIE

*Jay L. Gwie* 12-6-10  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER



**February 28, 2011**  
 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.

CONTRACT No.	<b>08-OP2104</b>
PROJECT ID	<b>080000555</b>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	2	33

<i>Jay L. Gwie</i>	12-6-10
REGISTERED CIVIL ENGINEER	DATE
2-28-11	
PLANS APPROVAL DATE	

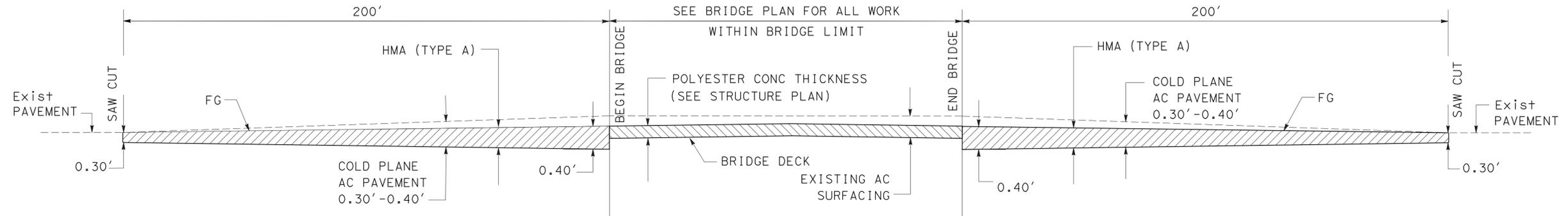
  

REGISTERED PROFESSIONAL ENGINEER
JAY L. GWIE
No. C36509
Exp. 10/7/12
CIVIL

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.

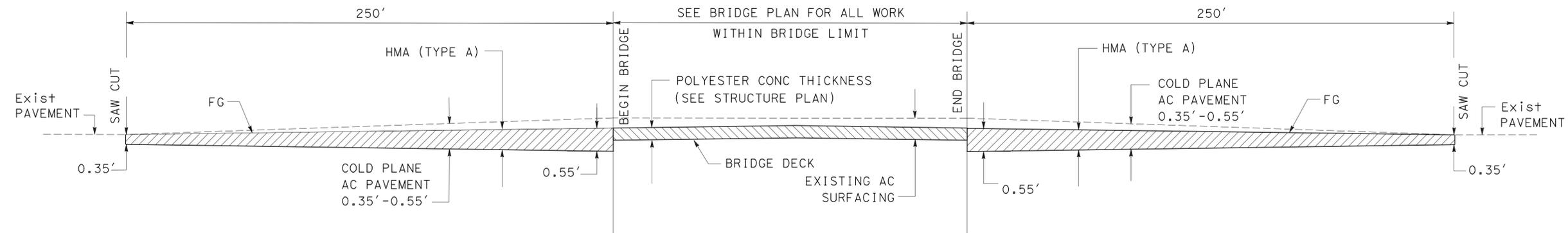
**LEGEND**

-  COLD PLANE AC PAVEMENT AND HMA (TYPE A)
-  POLYESTER CONCRETE THICKNESS (SEE STRUCTURE PLAN)



**TYPICAL PAVEMENT CONFORM**

- CALICO ROAD OC
- FIRST STREET OC
- EAST YERMO ROAD OC
- MINNEOLA ROAD OC
- HARVARD ROAD OC



**TYPICAL PAVEMENT CONFORM**

WEST BAKER OFF-RAMP OC

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN

REVISOR BY  
 JAY L. GWIE  
 DATE  
 MICHAEL RISTIC

CALCULATED/DESIGNED BY  
 CHECKED BY  
 MICHAEL RISTIC

FUNCTIONAL SUPERVISOR  
 MICHAEL RISTIC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	3	33

<i>Jay L. Gwie</i>	2-24-11
REGISTERED CIVIL ENGINEER	DATE
2-28-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
**JAY L. GWIE**  
 No. C36509  
 Exp. 10/7/12  
 CIVIL  
 STATE OF CALIFORNIA

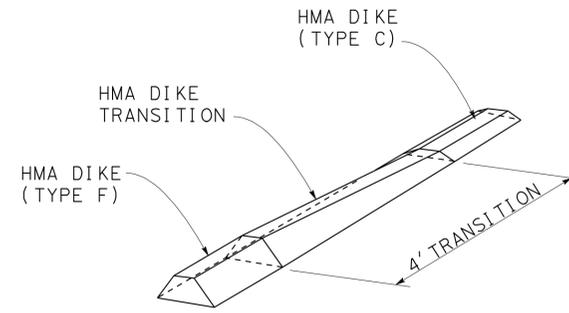
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

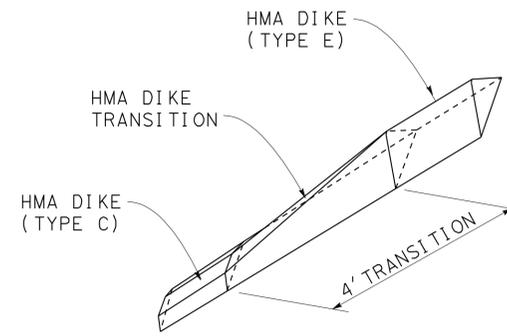
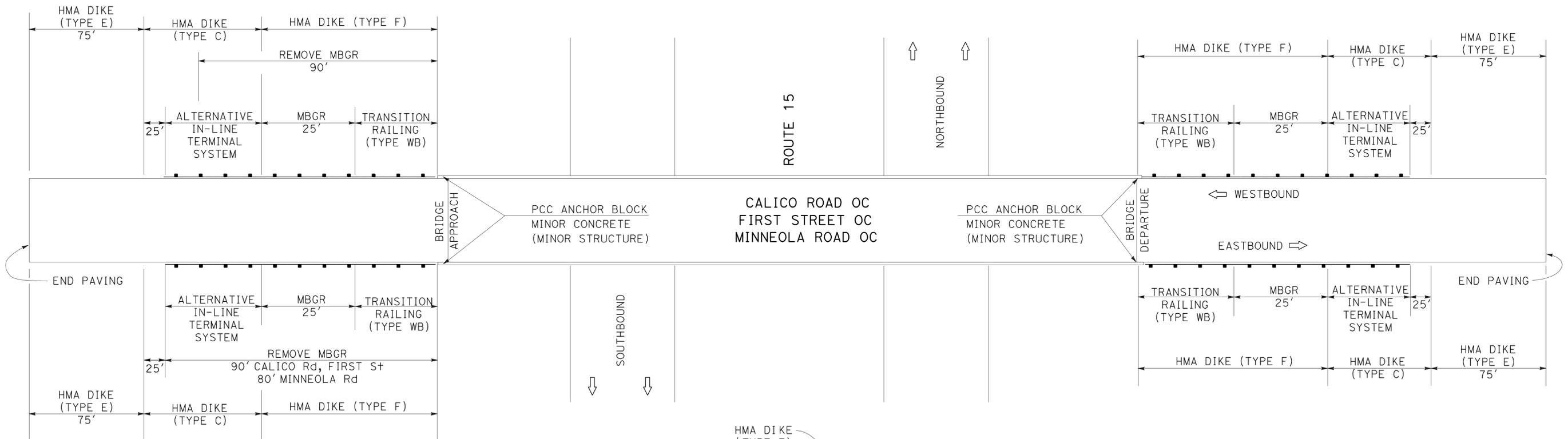
- FOR MBGR, HMA DIKE QUANTITIES AND TERMINAL SYSTEM, SEE SHEET Q-1.
- FOR DETAILS NOT SHOWN, SEE STANDARD PLANS.

**LEGEND**

⇨ DIRECTION OF TRAVEL



HMA DIKE (TYPE F) TO HMA DIKE (TYPE C) TRANSITION



HMA DIKE (TYPE C) TO HMA DIKE (TYPE E) TRANSITION

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: MICHAEL RISTIC  
 CALCULATED/DESIGNED BY: MICHAEL RISTIC  
 CHECKED BY: MICHAEL RISTIC  
 REVISED BY: JAY L. GWIE  
 DATE REVISED:

**CONSTRUCTION DETAILS**

NO SCALE

**C-2**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	4	33

<i>Jay L. Gwie</i>	2-15-11
REGISTERED CIVIL ENGINEER	DATE
2-28-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	JAY L. GWIE
No. C36509	Exp. 10/7/12
CIVIL	

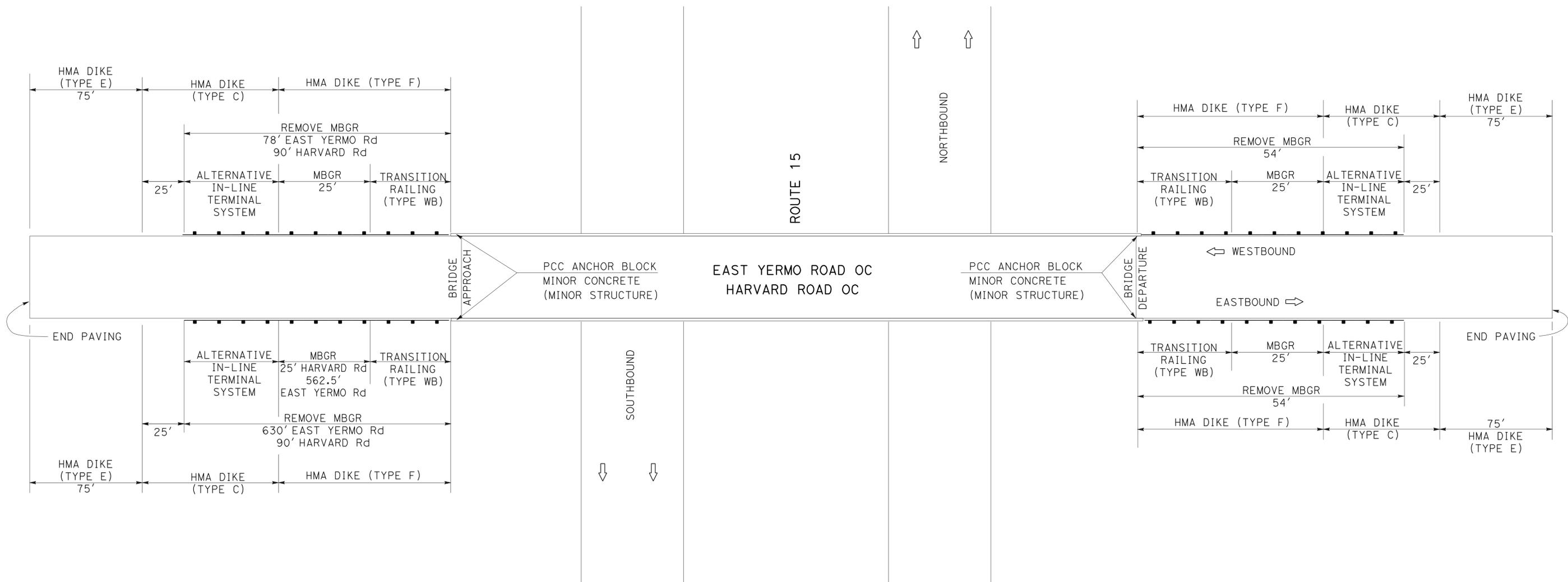
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

- FOR MBGR, HMA DIKE QUANTITIES AND TERMINAL SYSTEM, SEE SHEET Q-1.
- FOR DETAILS NOT SHOWN, SEE STANDARD PLANS.

**LEGEND**

⇨ DIRECTION OF TRAVEL



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: MICHAEL RISTIC  
 CALCULATED/DESIGNED BY: MICHAEL RISTIC  
 CHECKED BY: MICHAEL RISTIC  
 REVISIONS BY: JAY L. GWIE  
 DATE: 2-15-11  
 REVISIONS BY: MICHAEL RISTIC  
 DATE: 2-28-11

**CONSTRUCTION DETAILS**

NO SCALE

**C-3**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	5	33

<i>Jay L. Gwie</i>	2-15-11
REGISTERED CIVIL ENGINEER	DATE
2-28-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	JAY L. GWIE
No. C36509	Exp. 10/7/12
CIVIL	

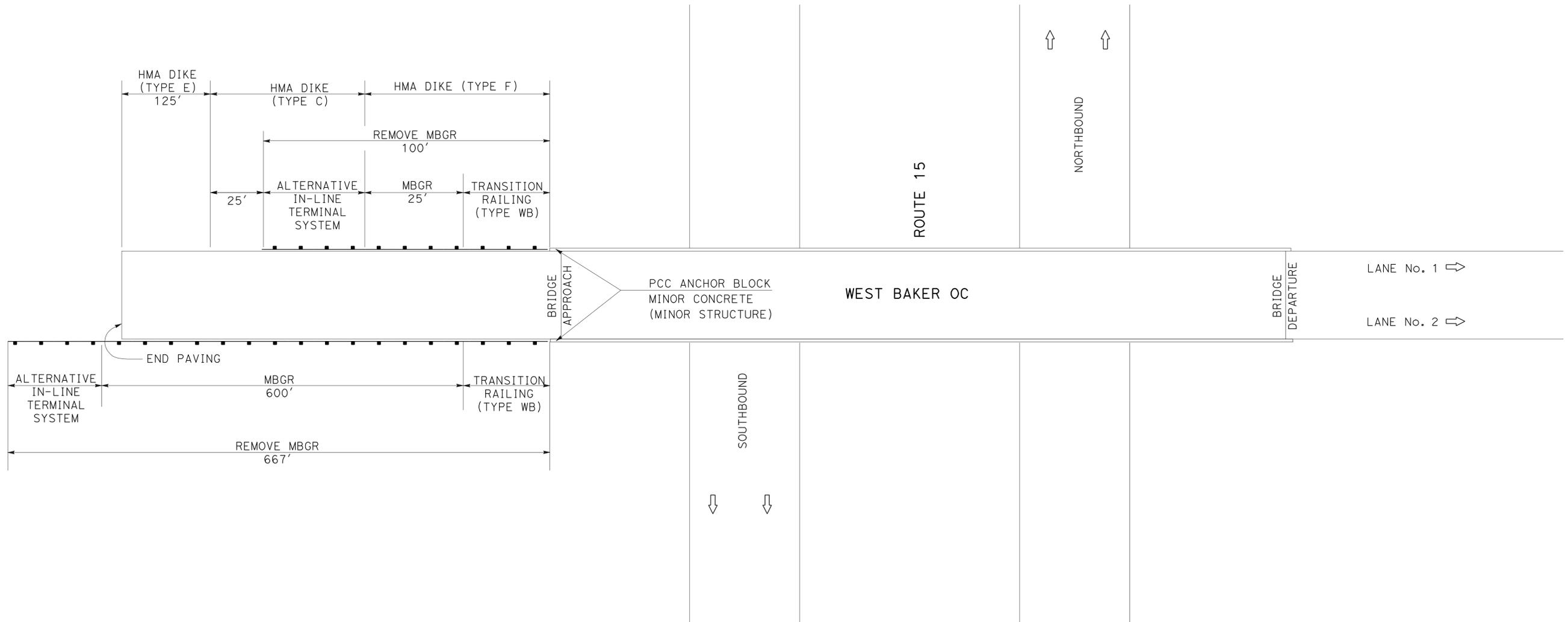
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

- FOR MBGR, HMA DIKE QUANTITIES AND TERMINAL SYSTEM, SEE SHEET Q-1.
- FOR DETAILS NOT SHOWN, SEE STANDARD PLANS.

**LEGEND**

⇒ DIRECTION OF TRAVEL



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
<b>Caltrans</b> MAINTENANCE DESIGN	MICHAEL RISTIC	JAY L. GWIE	JAY L. GWIE
		MICHAEL RISTIC	MICHAEL RISTIC

**CONSTRUCTION DETAILS**

NO SCALE

**C-4**



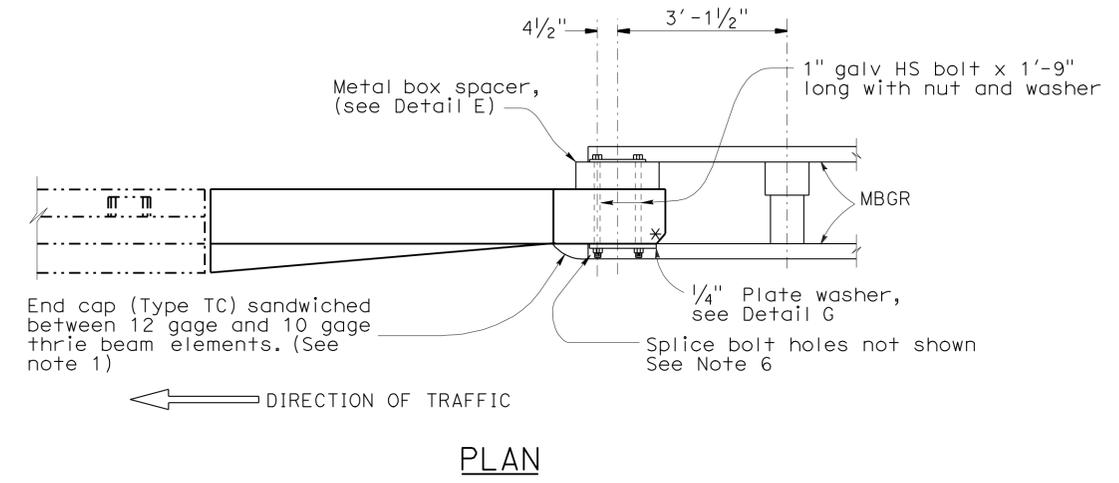
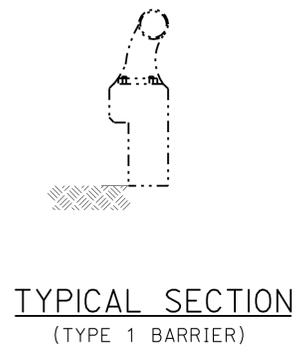
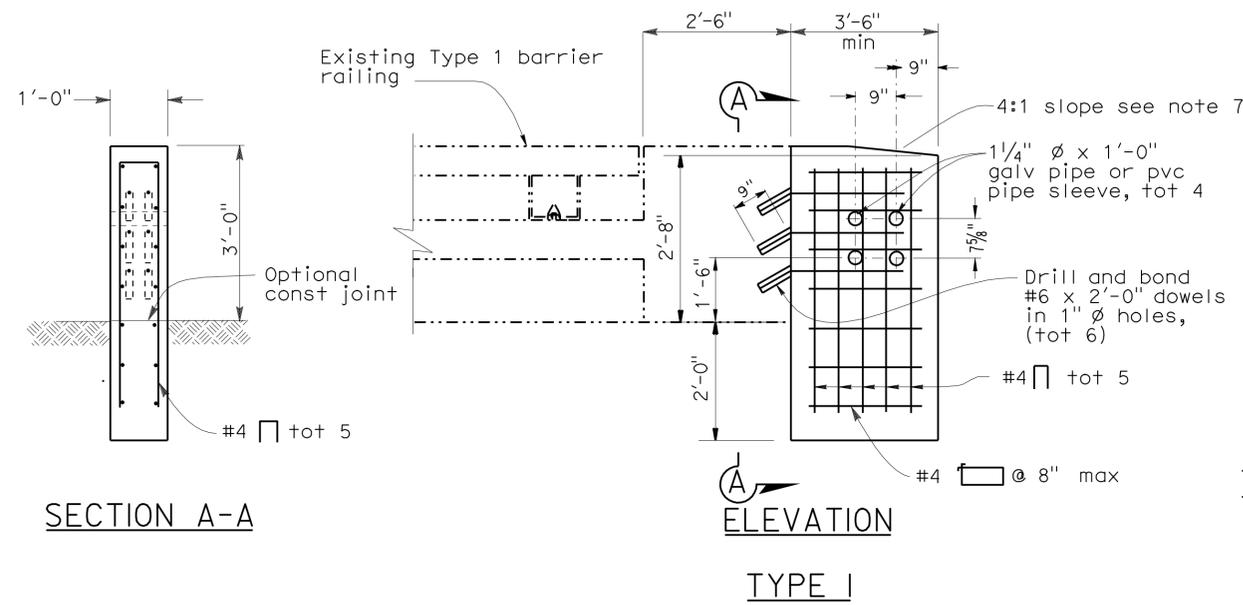
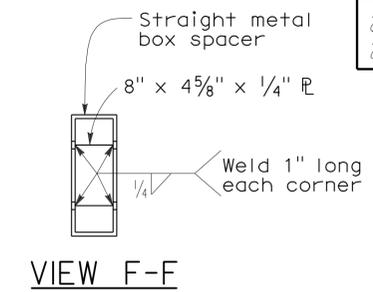
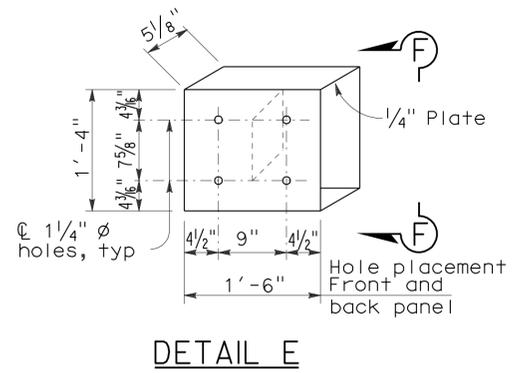
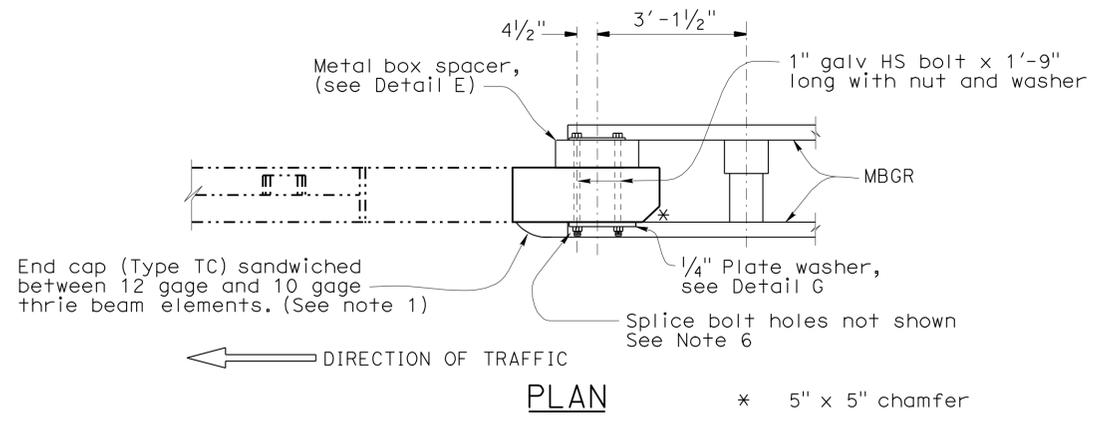
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	6	33

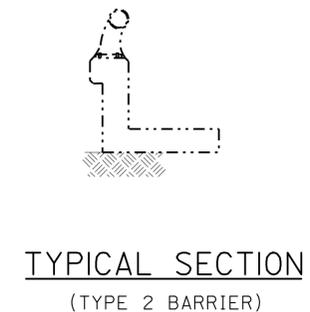
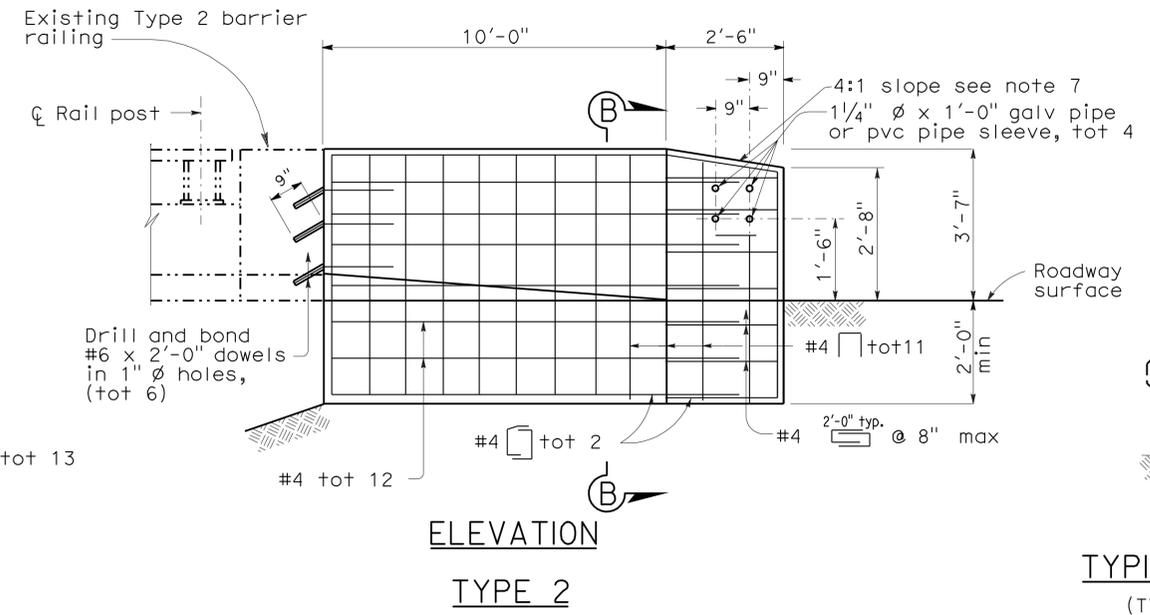
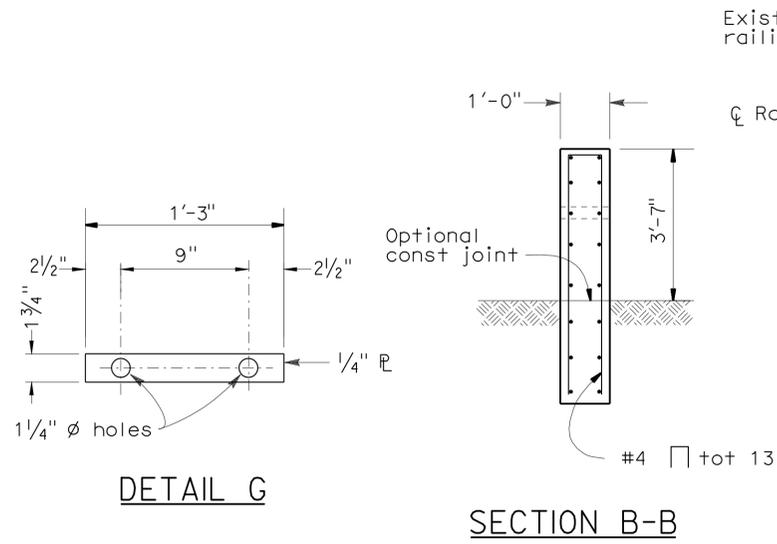
<i>Jay L. Gwie</i>	2-15-11
REGISTERED CIVIL ENGINEER	DATE
2-28-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
**JAY L. GWIE**  
 No. C36509  
 Exp. 10/7/12  
 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.



- NOTES:**
- FOR DETAILS NOT SHOWN, SEE STANDARD PLANS, JULY 2006.
  - DEPENDENT DIMENSION WILL BE VERIFIED IN THE FIELD BEFORE FABRICATING ANY END CONNECTION TO CONFORM WITH EXISTING PAVED CONDITIONS.
  - WHEN END SECTION IS CALLED FOR, MODIFY TYPICAL TERMINAL SECTION TO FIT. SEE DETAIL E.
  - ALL PLATES AND BOLTS ARE GALVANIZED.
  - CUT AND REMOVE PORTION OF TYPE 1, 2 AND BAGR AS REQUIRED.
  - EXTERIOR SPLICE BOLT HOLES SHALL BE THE STANDARD 7/8" x 1 1/8" SLOT SIZE FOR RAIL SPLICES AT POST #T4 AND THE CONNECTION TO THE CONCRETE BARRIER OR RAILING. INTERIOR SPLICE BOLT HOLES MAY BE INCREASED UP TO 1 1/4" DIA. WASHERS SHALL BE USED WITH SPLICE BOLTS ON BACK SIDE OF RAIL ELEMENT AT POST #T4 AND CONNECTION TO THE CONCRETE BARRIER OR RAILING.
  - TAPER THE TOP OF THE END OF THE BRIDGE RAILING AT 4:1 TO MATCH THE TOP ELEVATION OF THE THRIE BEAM RAIL ELEMENT.



**CONSTRUCTION DETAILS**  
NO SCALE  
**C-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - **Caltrans** MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: MICHAEL RISTIC  
DESIGNED BY: MICHAEL RISTIC  
CHECKED BY: MICHAEL RISTIC  
REVISOR: JAY L. GWIE  
DATE: 2-15-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	7	33

<i>Oscar Alejandro</i>	12-6-10
REGISTERED CIVIL ENGINEER	DATE
2-28-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
OSCAR ALEJANDRE
No. C70863
Exp. 6/30/11
CIVIL

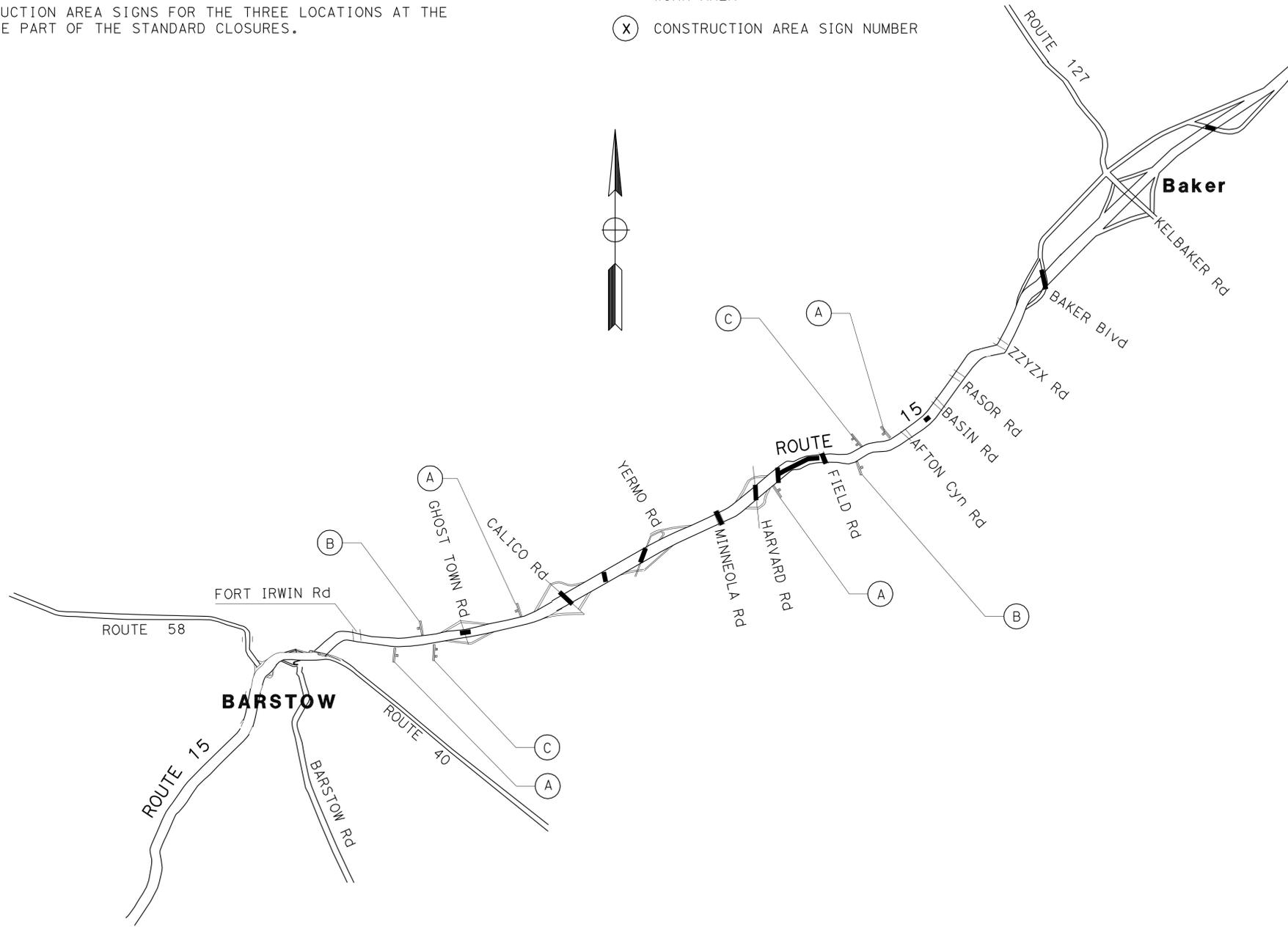
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

1. LOCATIONS OF THE CONSTRUCTION AREA SIGNS ARE APPROXIMATE. THE EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SEE STANDARD PLANS T-10, and T-13 FOR SHOULDER AND LANE CLOSURE.
3. TEMPORARY CONSTRUCTION AREA SIGNS FOR THE THREE LOCATIONS AT THE NORTH END WILL BE PART OF THE STANDARD CLOSURES.

**LEGEND**

- ⊥ CONSTRUCTION AREA SIGNS (1 POST)
- ⊥ CONSTRUCTION AREA SIGNS (2 POSTS)
- WORK AREA
- (X) CONSTRUCTION AREA SIGN NUMBER



**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST(S) AND SIZE	No. OF SIGNS
		(In X In)			(EA)
(A)	W20-1	48 X 48	ROAD WORK AHEAD	1 - 4 In X 6 In	4
(B)	G20-2	48 X 24	END ROAD WORK	1 - 4 In X 4 In	2
(C)	C40(CA)	144 X 60	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6 In X 8 In	2

**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY



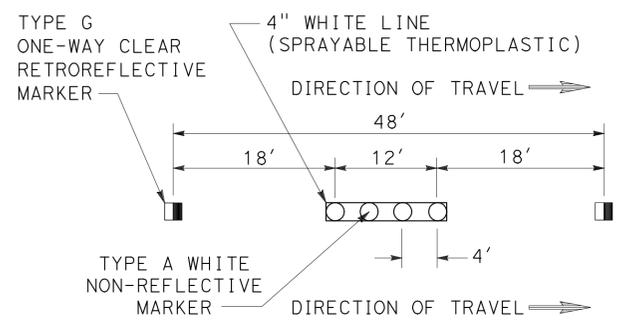
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN B  
 LARRY SARTORI  
 FUNCTIONAL SUPERVISOR  
 CHECKED BY  
 DESIGNED BY  
 OSCAR ALEJANDRE  
 SHABBIR AHMED  
 REVISOR BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	8	33

12-6-10  
 REGISTERED CIVIL ENGINEER DATE  
 OSCAR ALEJANDRE  
 No. C70863  
 Exp. 6/30/11  
 CIVIL  
 STATE OF CALIFORNIA  
 2-28-11  
 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.

### PAVEMENT DELINEATION QUANTITIES

LOCATION			DIRECTION	REMOVE PAVEMENT MARKER	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	PAVEMENT MARKER			THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				
							NON REFLECTIVE	RETROREFLECTIVE		4" YELLOW			4" WHITE	
BRIDGE NAME	BRIDGE No.	ROUTE /PM		EA	4 INCH YELLOW LF	4 INCH WHITE LF	TYPE A EA	TYPE G EA	TYPE H	DETAIL 25	DETAIL 25A	DETAIL 21	DETAIL 13M	DETAIL 27B
GHOST TOWN Rd UC	54-0627L	15/R81.83	SB	8	134	268	12	4	4	134			134	134
CALICO Rd	54-0628	15/R84.64	EB/WB									624		
FIRST STREET OC	54-0629	15/R85.65	EB/WB									594		
EAST YERMO Rd OC	54-0631	15/R86.38	EB/WB									674		
MINNEOLA Rd OC	54-0632	15/R88.48	EB/WB									646		
HARVARD Rd OC	54-0634	15/R96.41	EB/WB									665		
ALVORD MOUNTAIN OC	54-0635	15/R99.49	EB/WB		468							234		
WEST MANIX WASH	54-0636L	15/R100.23	SB	8	156	312	12	4	4	156			156	156
	54-0636R	15/R100.23	NB	8	156	312	12	4	4	156			156	156
EAST MANIX WASH	54-0637L	15/R100.67	SB	4	90	180	4	2	2	90			90	90
	54-0637R	15/R100.67	NB	4	90	180	4	2	2	90			90	90
MOUND WASH	54-0638L	15/R101.27	SB	4	79	158	4	2	2	79			79	79
	54-0638R	15/R101.27	NB	4	79	158	4	2	2	79			79	79
FIELD Rd OC	54-0640	15/R103.63	EB/WB		494							247		
FLAT DITCH	54-0639L	15/R101.48	SB	6	98	196	8	3	3	98			98	98
	54-0639R	15/R101.48	NB	6	98	196	8	3	3	98			98	98
MOJAVE RIVER OF	54-0642L	15/R120.05	SB	10	202	404	16	5	5	202			202	202
	54-0642R	15/R120.05	NB	10	202	404	16	5	5	202			202	202
WEST BAKER OFF OC	54-0609S	15/R135.80	EB/WB						36			816		816
EAST BAKER OC	54-0611S	15/R138.45	EB/WB											
SUBTOTAL				72	2346	2768	100	36	72	1384	816	3684	1384	2000
TOTAL				72	2346	2768	100	108		9268				



#### DETAIL 13 MODIFIED (13M)

INSTALL TYPE A NON-REFLECTIVE MARKER WITH STRIPING DETAIL 13M  
 INSTALL TYPE A MARKER BEFORE STRIPING TO GET THE PROPER BONDING

### PAVEMENT DELINEATION QUANTITIES

NO SCALE

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Oscar Alejandre  
 Shabbir Ahmed  
 LARRY SARTORI  
 TRAFFIC DESIGN B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	9	33

<i>Oscar Alejandro</i>	12-6-10
REGISTERED CIVIL ENGINEER	DATE
2-28-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
OSCAR ALEJANDRE
No. C70863
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 SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

- REFER TO CA STANDARD G-11 SIGN SPECS FOR ADDITIONAL DIMENSIONING.
- SEE QUANTITY TABLE FOR EXACT NUMBER OF SIGNS.

**LEGEND**

SIGN No.: SBD215NBX.X  
 SBD215NBX.X DETERMINES THE COUNTY, ROUTE, DIRECTION, AND POSTMILE

SBD15NB/SB84.64



1.5" Radius, 0.8" Border, Black on White;  
 [CALICO RD OC] C; [BRIDGE 54-0628] D;  
 [15 SBD R84.64] D;  
 G11-4.1

SBD15NB/SB85.65



1.5" Radius, 0.8" Border, Black on White;  
 [FIRST ST OC] B; [BRIDGE 54-0629] D;  
 [15 SBD R85.65] D;  
 G11-4.1

SBD15SB100.23



1.5" Radius, 0.8" Border, Black on White;  
 [W MANIX WASH] White B;  
 [BRIDGE 54-0636L] White D;  
 [15 SBD R100.23] White D;  
 G11-4.1

SBD15NB100.23



1.5" Radius, 0.8" Border, Black on White;  
 [W MANIX WASH] White B;  
 [BRIDGE 54-0636L] White D;  
 [15 SBD R100.23] White D;  
 G11-4.1

**SIGN DETAILS**

NO SCALE

**SD-1**

THIS PLAN ACCURATE FOR SIGN DETAILS ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN B  
 FUNCTIONAL SUPERVISOR: LARRY SARTORI  
 CALCULATED/DESIGNED BY: OSCAR ALEJANDRE  
 CHECKED BY: SHABBIR AHMED  
 REVISED BY: DATE REVISION



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	10	33

<i>Oscar Alejandro</i>	12-6-10
REGISTERED CIVIL ENGINEER	DATE
2-28-11	
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.

**NOTE:**

1. REFER TO CA STANDARD G-11 SIGN SPECS FOR ADDITIONAL DIMENSIONING.

**LEGEND**

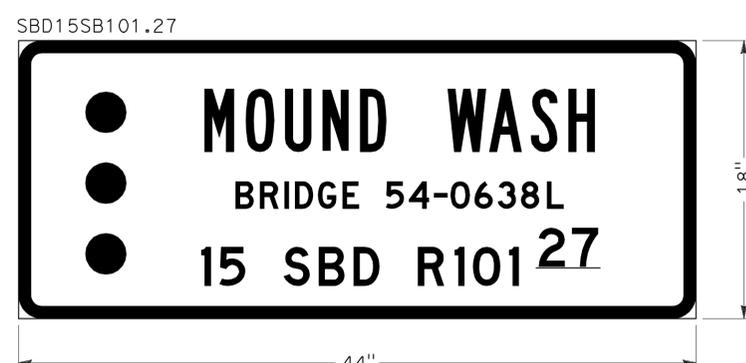
SIGN No.: SBD215NBX.X  
 SBD215NBX.X DETERMINES THE COUNTY, ROUTE, DIRECTION, AND POSTMILE



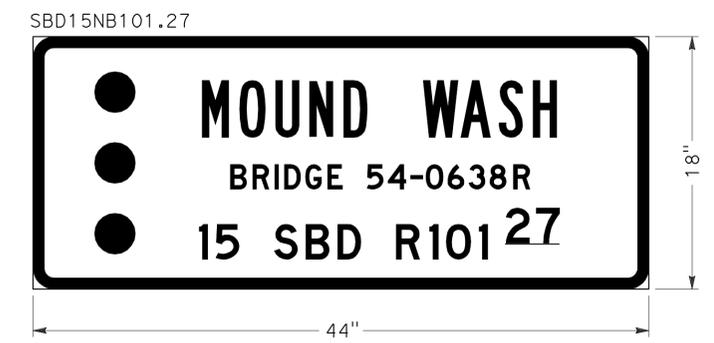
1.5" Radius, 0.8" Border, Black on White;  
 [E MANIX WASH] White B;  
 [BRIDGE 54-0637R] White D;  
 [15 SBD R100.67] White D;  
 G11-4.1



1.5" Radius, 0.8" Border, Black on White;  
 [E MANIX WASH] White B;  
 [BRIDGE 54-0637R] White D;  
 [15 SBD R100.67] White D;  
 G11-4.1



1.5" Radius, 0.8" Border, Black on white  
 [MOUND WASH] B; [BRIDGE 54-0638L] D;  
 [15 SBD R101.27] D;  
 G11-4.1



1.5" Radius, 0.8" Border, Black on White;  
 [MOUND WASH] B; [BRIDGE 54-0638L] D;  
 [15 SBD R101.27] D;  
 G11-4.1

**SIGN DETAILS**

NO SCALE

**SD - 2**

THIS PLAN ACCURATE FOR SIGN DETAILS ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN B  
 FUNCTIONAL SUPERVISOR: LARRY SARTORI  
 CALCULATED/DESIGNED BY: OSCAR ALEJANDRE  
 CHECKED BY: SHABBIR AHMED  
 REVISED BY: DATE  
 REVISIONS:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	11	33

<i>Oscar Alejandro</i>	12-6-10
REGISTERED CIVIL ENGINEER	DATE
2-28-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
OSCAR ALEJANDRE
No. C70863
Exp. 6/30/11
CIVIL

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.

**NOTES:**

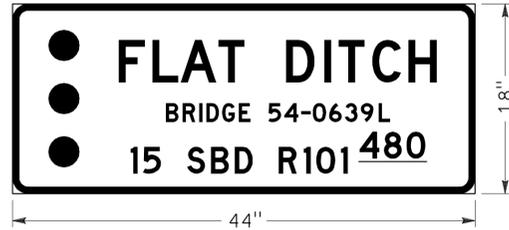
1. REFER TO CA STANDARD G-11 SIGN SPECS FOR ADDITIONAL DIMENSIONING.

**LEGEND**

SIGN No.: SBD215NBX.X

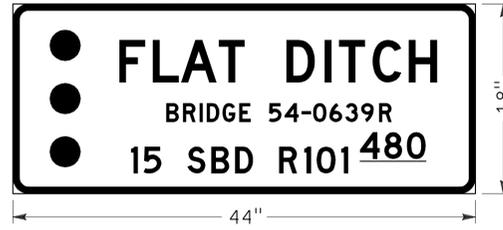
SBD215NBX.X DETERMINES THE COUNTY, ROUTE, DIRECTION, AND POSTMILE

SBD15SB101.480



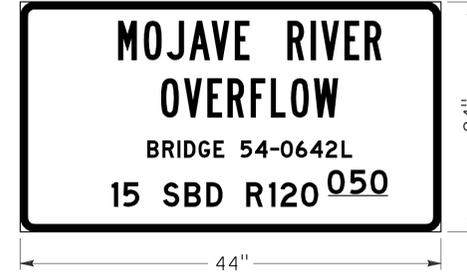
1.5" Radius, 0.6" Border, Red on Black;  
[FLAT DITCH] D; [BRIDGE 54-0639L] D;  
[15 SBD R101.480] D;  
G11-4.1

SBD15NB101.480



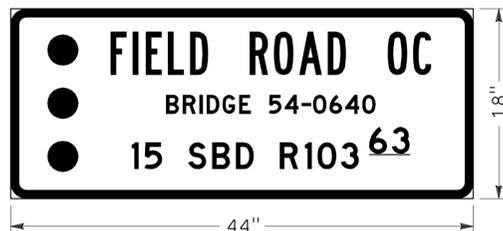
1.5" Radius, 0.6" Border, Black on White;  
[FLAT DITCH] D; [BRIDGE 54-0639L] D;  
[15 SBD R101.480] D;  
G11-4.1

SBD15SB120.050



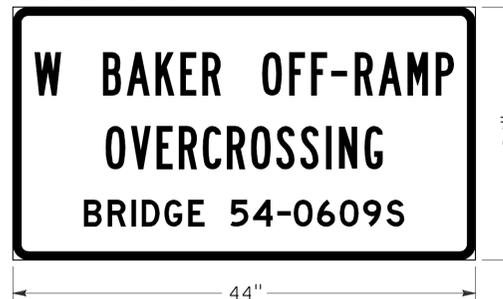
1.5" Radius, 0.8" Border, Black on White;  
[MOJAVE RIVER] B; [OVERFLOW] B;  
[BRIDGE 54-0642L] D; [15 SBD R120.050] D;  
G11-2

SBD15SB/NB103.63



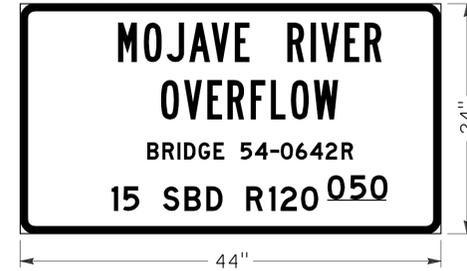
1.5" Radius, 0.8" Border, Black on White;  
[FIELD ROAD OC] White B;  
[BRIDGE 54-0640] White D;  
[15 SBD R103.63] White D;  
G11-4.1

SBD15SB/NB135.8



1.5" Radius, 0.8" Border, Black on White;  
[W BAKER OFF-RAMP] White B;  
[OVERCROSSING] White B;  
[BRIDGE 54-0609S] White D;  
G11-2

SBD15NB120.050



1.5" Radius, 0.8" Border, Black on White  
[MOJAVE RIVER] B; [OVERFLOW] B;  
[BRIDGE 54-0642L] D; [15 SBD R120.050] D;  
G11-2

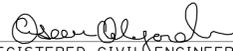
**SIGN DETAILS**

NO SCALE

THIS PLAN ACCURATE FOR SIGN DETAILS ONLY

**SD-3**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	12	33
			2-15-11		
REGISTERED CIVIL ENGINEER			DATE		
2-28-11			PLANS APPROVAL DATE		
<small>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.</small>					

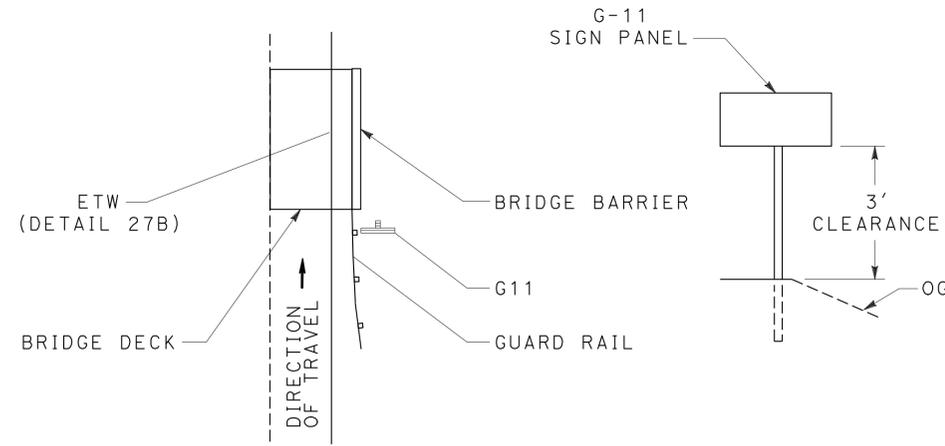
**NOTES:**

- CALIFORNIA SIGN CODES ARE DESIGNATED BY (CA); OTHERWISE, FEDERAL SIGN CODES ARE SHOWN.
- ALL SIGN POSTS SHALL BE SIZE 4 INCH X 4 INCH.

**LEGEND**

FRP = FIBERGLASS REINFORCED PLASTIC  
L = LENGTH OF SIGN  
D = DEPTH OF SIGN  
RSPF = REMOVABLE SIGN PANEL FRAME

SIGN No.: SBD215NB/SBX.X  
SBD215NB/SBX.X DETERMINES THE COUNTY, ROUTE, DIRECTION, AND POSTMILE



**TYPICAL LOCATION AND INSTALLATION OF G11(CA) SIGN**  
NO SCALE

**ROADSIDE SIGN QUANTITIES**

SIGN No.	SIGN CODE	SIGN SIZE L X D	POST LENGTH	ROADSIDE SIGN
				ONE POST (SEE NOTE 2)
		In x In	L+	EA
SBD15SB84.64	G11-4.1(CA)	44 X 18	6.5	1
SBD15NB84.64	G11-4.1(CA)	44 X 18	6.5	1
SBD15SB85.65	G11-4.1(CA)	44 X 18	6.5	1
SBD15NB85.65	G11-4.1(CA)	44 X 18	6.5	1
SBD15SB100.23	G11-4.1(CA)	44 X 18	6.5	1
SBD15NB100.23	G11-4.1(CA)	44 X 18	6.5	1
SBD15SB100.67	G11-4.1(CA)	44 X 18	6.5	1
SBD15NB100.67	G11-4.1(CA)	44 X 18	6.5	1
SBD15SB101.27	G11-4.1(CA)	44 X 18	6.5	1
SBD15NB101.27	G11-4.1(CA)	44 X 18	6.5	1
SBD15SB101.480	G11-4.1(CA)	44 X 18	6.5	1
SBD15NB101.480	G11-4.1(CA)	44 X 18	6.5	1
SBD15SB103.63	G11-4.1(CA)	44 X 18	6.5	1
SBD15NB103.63	G11-4.1(CA)	44 X 18	6.5	1
SBD15SB120.050	G11-2(CA)	44 X 18	6.5	1
SBD15NB120.050	G11-2(CA)	44 X 18	6.5	1
SBD15SB135.8	G11-2(CA)	44 X 18	6.5	1
SBD15NB135.8	G11-2(CA)	44 X 18	6.5	1
TOTAL				18

**SIGN QUANTITIES**

**SQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  


FUNCTIONAL SUPERVISOR: LARRY SARTORI  
DESIGNED BY: OSCAR ALEJANDRE  
CHECKED BY: SHABBIR AHMED  
REVISED BY: [blank]  
DATE REVISED: [blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	13	33

 02-15-11  
 REGISTERED CIVIL ENGINEER DATE

2-28-11  
 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.



**NOTE:**

1. CALIFORNIA SIGN CODES ARE DESIGNATED BY (CA); OTHERWISE, FEDERAL SIGN CODES ARE SHOWN.

**LEGEND**

FRP = FIBERGLASS REINFORCED PLASTIC  
 L = LENGTH OF SIGN  
 D = DEPTH OF SIGN  
 RSPF = REMOVABLE SIGN PANEL FRAME

SIGN No.: SBD215NB/SBX.X  
 SBD215NB/SBX.X DETERMINES THE COUNTY, ROUTE, DIRECTION, AND POSTMILE

**SIGN PANEL MATERIAL QUANTITIES**

SIGN No.	SIGN CODE	SIGN SIZE L X D	SINGLE FACED	SIGN FACING MATERIAL					SIGN PANEL SUBSTRATE MATERIAL SQFT
				BACKGROUND		LEGEND		GRAFFITI FILM	ROADSIDE SINGLE-SHEET
				SHEETING COLOR	RETRO-REFLECTIVE ASTM TYPE	SHEETING COLOR	RETRO-REFLECTIVE ASTM TYPE	PREMIUM	UNFRAMED ALUMINUM
		In x In						0.063 In	
SBD15SB84.64	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15NB84.64	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15SB85.65	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15NB85.65	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15SB100.23	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15NB100.23	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15SB100.67	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15NB100.67	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15SB101.27	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15NB101.27	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15SB101.480	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15NB101.480	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15SB103.63	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15NB103.63	G11-4.1(CA)	44 X 18	X	WHITE	IV	BLACK	IV	X	5.5
SBD15SB120.050	G11-2(CA)	44 X 24	X	WHITE	IV	BLACK	IV	X	7.33
SBD15NB120.050	G11-2(CA)	44 X 24	X	WHITE	IV	BLACK	IV	X	7.33
SBD15SB135.8	G11-2(CA)	44 X 24	X	WHITE	IV	BLACK	IV	X	7.33
SBD15NB135.8	G11-2(CA)	44 X 24	X	WHITE	IV	BLACK	IV	X	7.33
TOTAL									106.32

**SIGN QUANTITIES**

**SQ-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN B  
 LARRY SARTORI  
 OSCAR ALEJANDRE  
 SHABBIR AHMED  
 REVISIONS: 02-15-11





DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	15	33

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

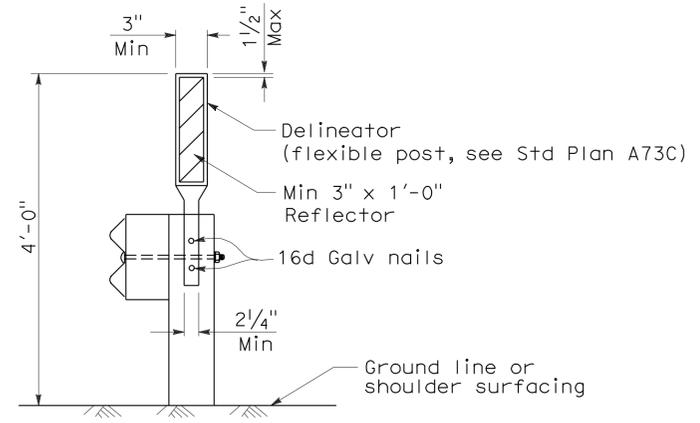
June 6, 2008  
PLANS APPROVAL DATE

*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.*

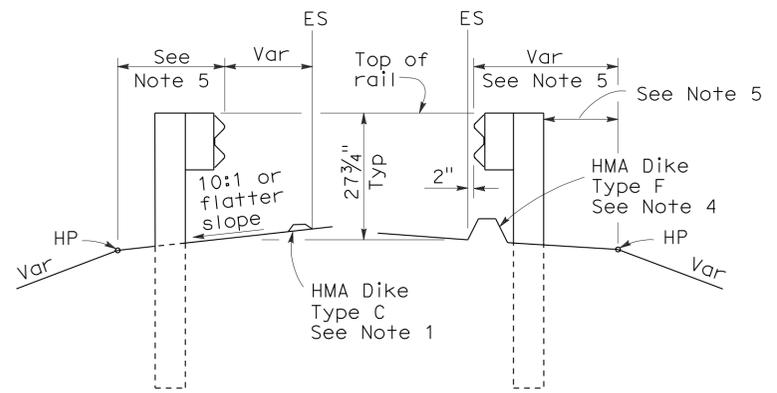
To accompany plans dated 2-28-11

**NOTES:**

1. When necessary to place dike in front of face of guard railing, only Type C dike may be used. For dike details, see Standard Plan A87B.
2. For standard railing post embedment, see Standard Plans A77C3.
3. Guard railing delineation to be used where shown on the Project Plans.
4. When dike or curb is placed under guard railing, the maximum height of the dike or curb shall be 4". Mountable dike should not be used. For dike and curb details, see Revised Standard Plans RSP A87A and Standard Plan A87B.
5. For details of typical distance between the face of rail and hinge point, see Standard Plan A77C3.



**GUARD RAILING DELINEATION**  
See Note 3



**DIKE POSITIONING**  
See Note 1

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL RAILING DELINEATION  
AND DIKE POSITIONING DETAILS**

NO SCALE

RSP A77C4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77C4  
DATED MAY 1, 2006 - PAGE 47 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP A77C4**

2006 REVISED STANDARD PLAN RSP A77C4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	16	33

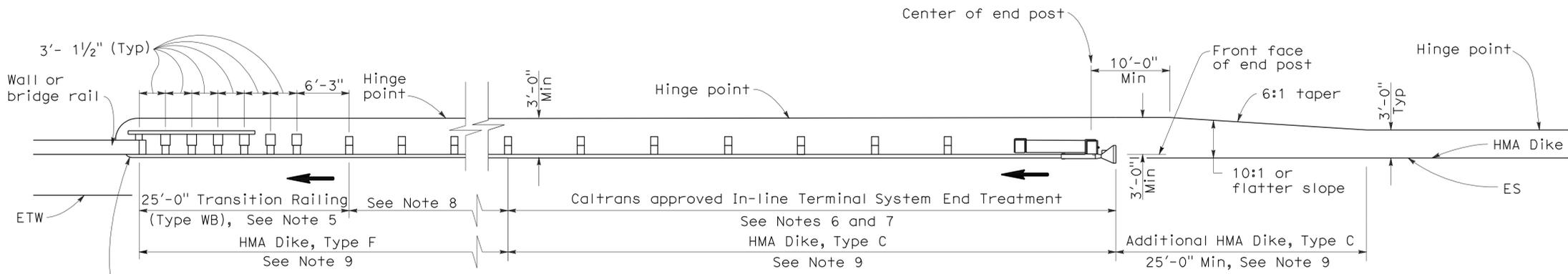
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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

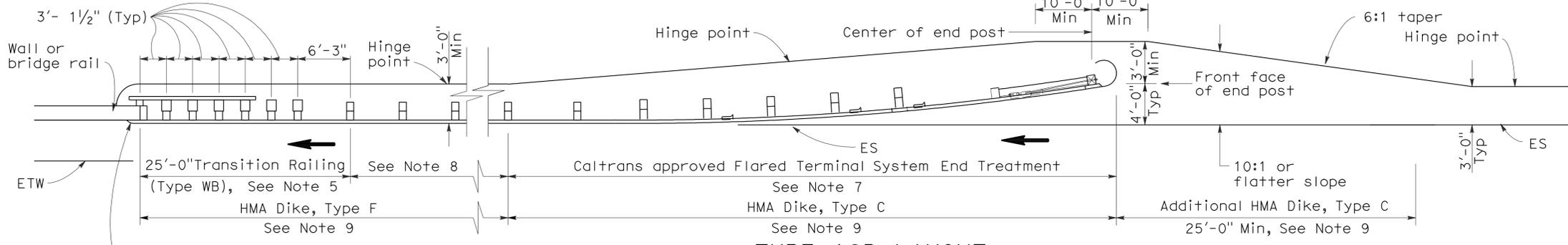
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-28-11



**TYPE 12A LAYOUT**

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH AN IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING)  
See Notes 10



**TYPE 12B LAYOUT**

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH A FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)  
See Notes 10

**NOTES:**

- Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- Direction of adjacent traffic indicated by  $\rightarrow$ .
- For Transition Railing (Type WB) details for Types 12A and 12B Layouts, see Standard Plan A77J4.
- In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system end treatment to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, or other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatment.

- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.
- Type 12A or Type 12B Layouts are typically used:
  - To the right of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
  - To the left of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
  - To the right of approaching traffic at the end of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
  - To the right of approaching traffic at the end of the structure on multilane freeways or expressways with decked median on the bridge.
- See Revised Standard Plan RSP A77F3 for typical layout used left of approaching traffic at the ends of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.

- For additional details of typical connections to bridge rail, see Connection Detail AA on Revised Standard Plans RSP A77J1 and RSP A77J2 and Connection Detail FF on Standard Plans A77K1 and A77K2.
- For additional details of a typical connection to walls or abutments, see Standard Plan A77J3.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL LAYOUTS FOR  
STRUCTURE APPROACH**

NO SCALE

RSP A77F1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77F1  
DATED MAY 1, 2006 - PAGE 54 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A77F1



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	18	33

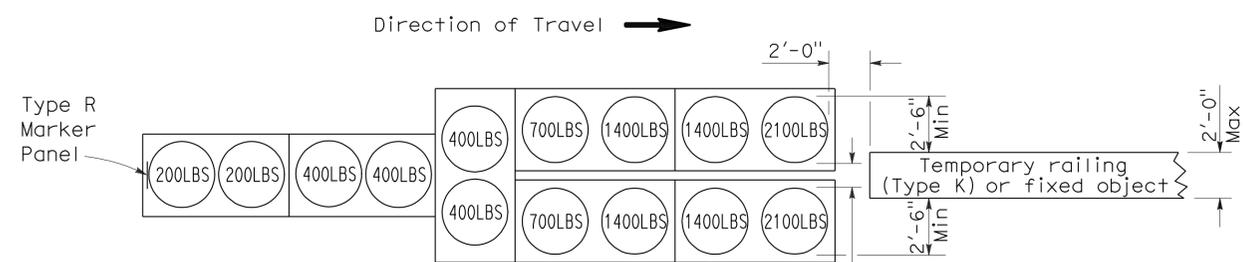
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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

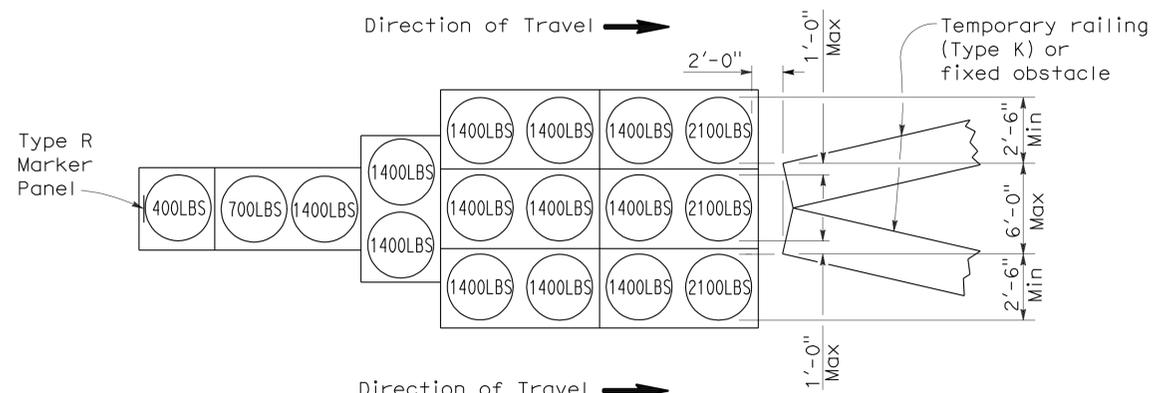
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-28-11



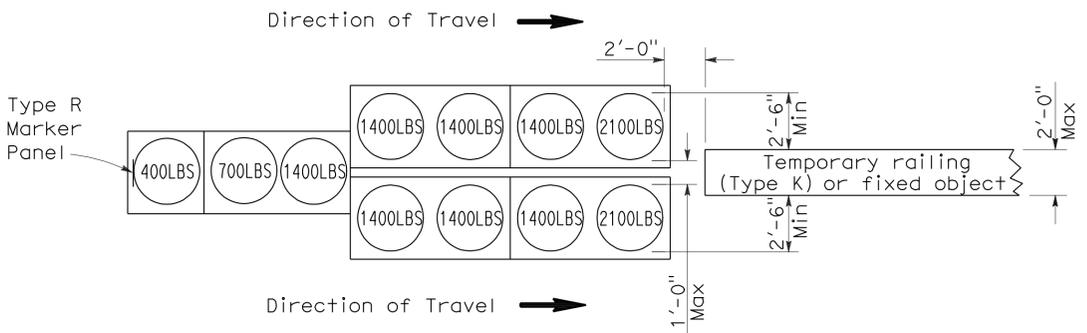
**ARRAY 'TU14'**

Approach speed 45 mph or more



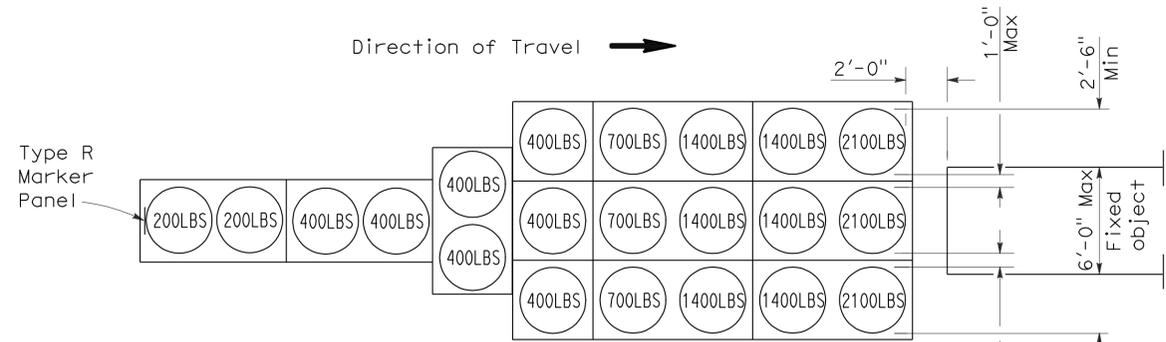
**ARRAY 'TU17'**

Approach speed less than 45 mph



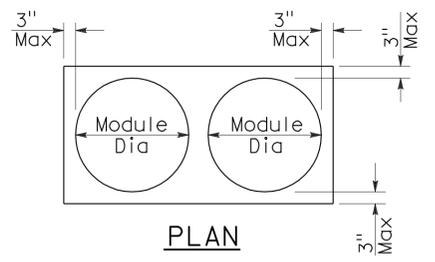
**ARRAY 'TU11'**

Approach speed less than 45 mph

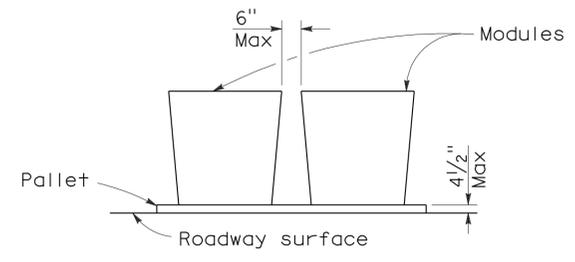


**ARRAY 'TU21'**

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**

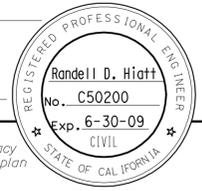
2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	19	33

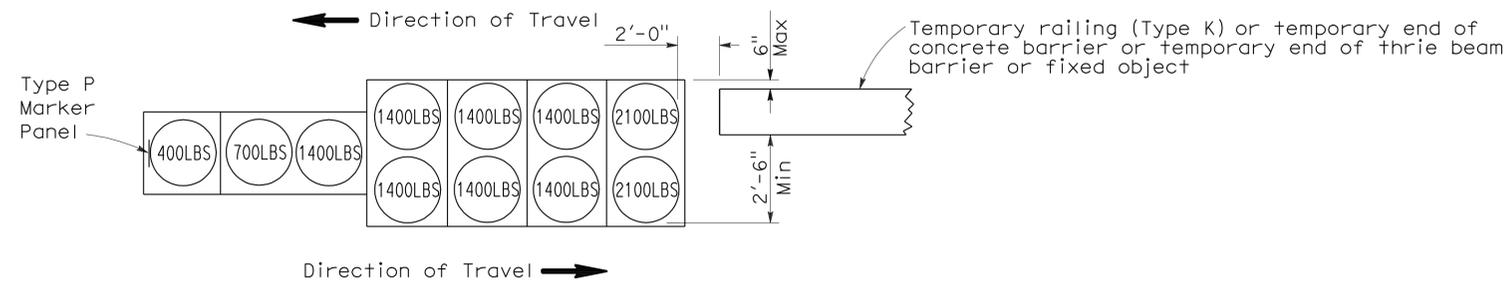
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

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.*

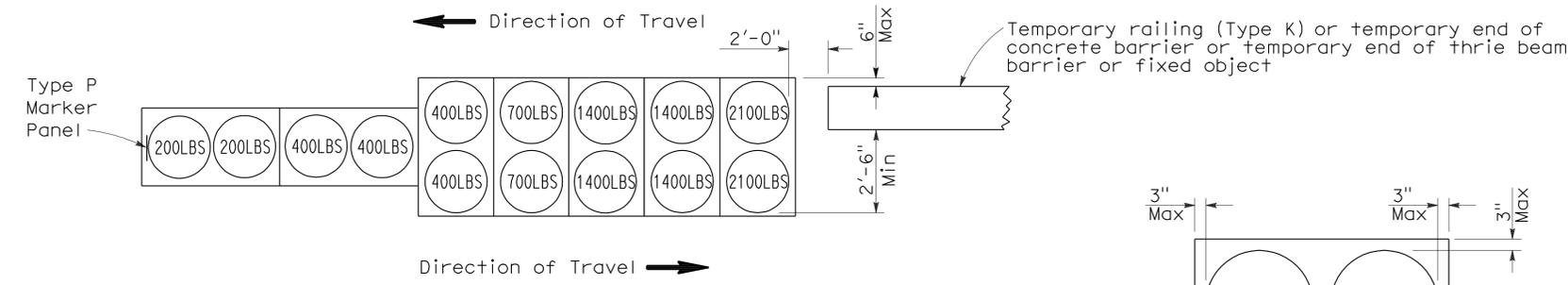


To accompany plans dated 2-28-11



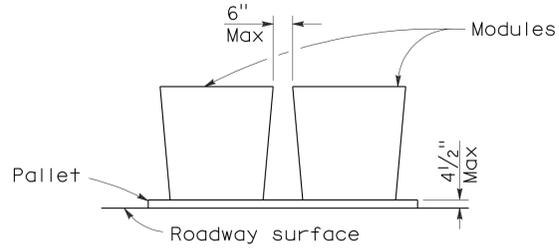
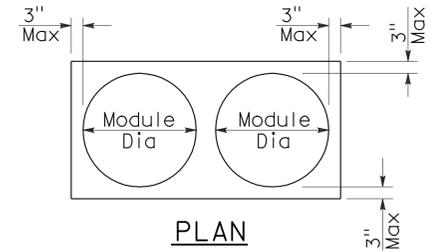
**ARRAY 'TB11'**

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

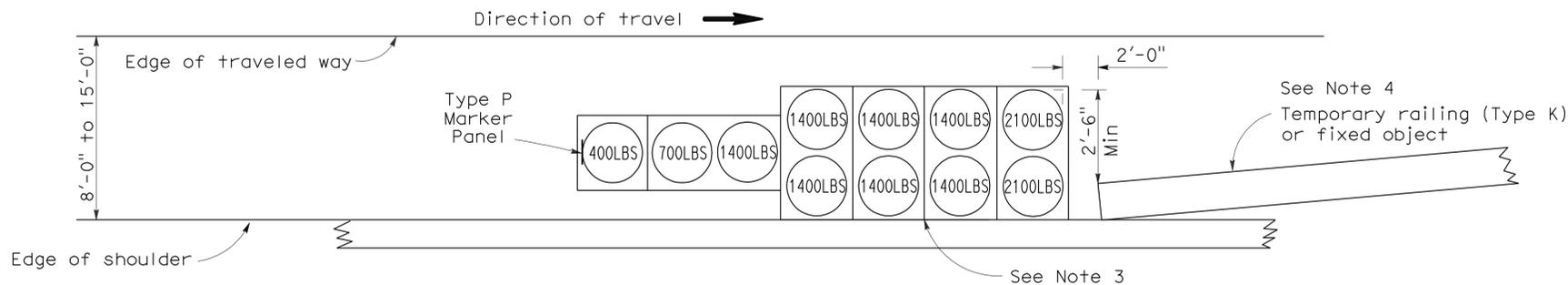
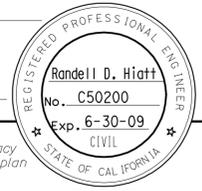
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	20	33

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

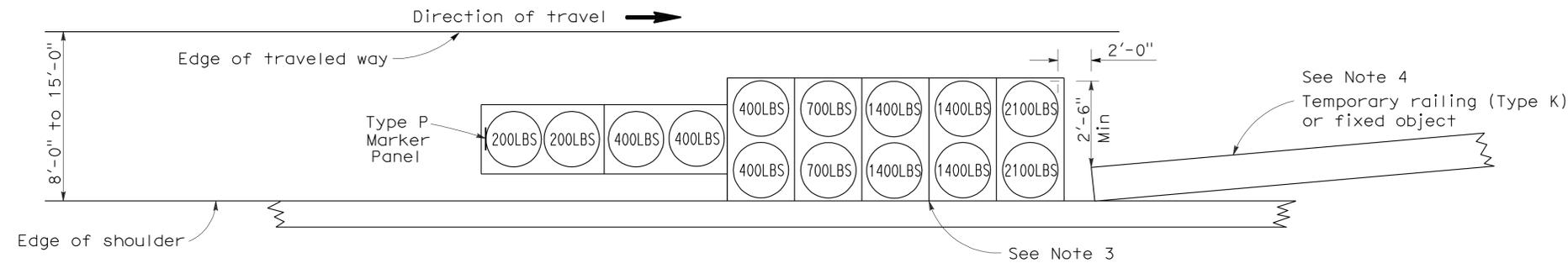
June 6, 2008  
PLANS APPROVAL DATE

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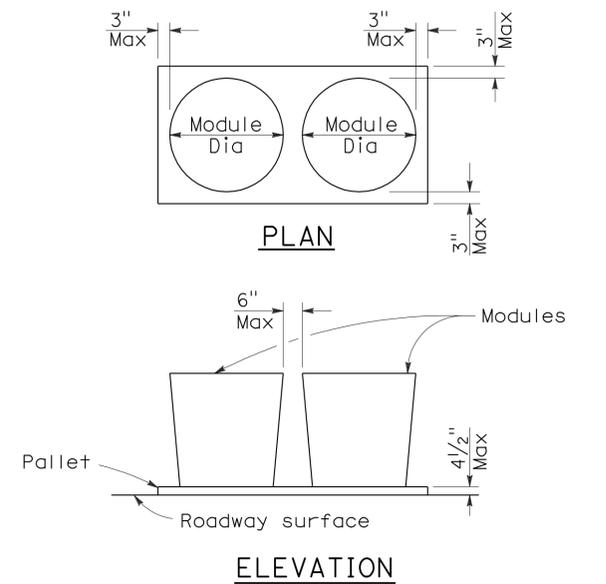
To accompany plans dated 2-28-11



**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.

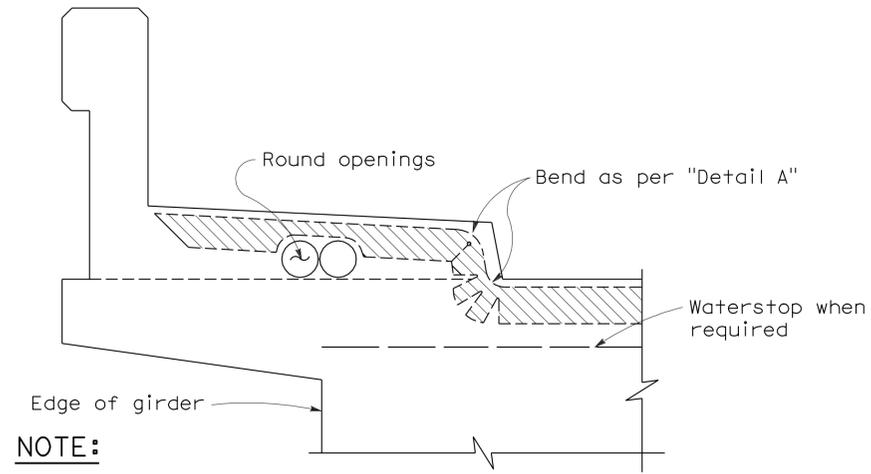
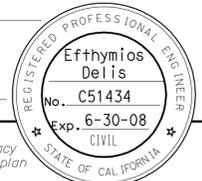
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**

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**

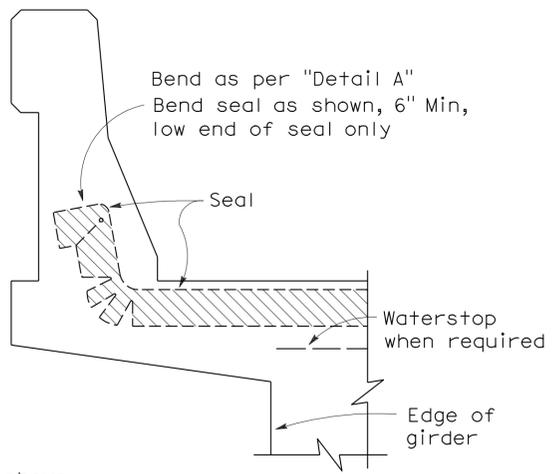
2006 REVISED STANDARD PLAN RSP T2



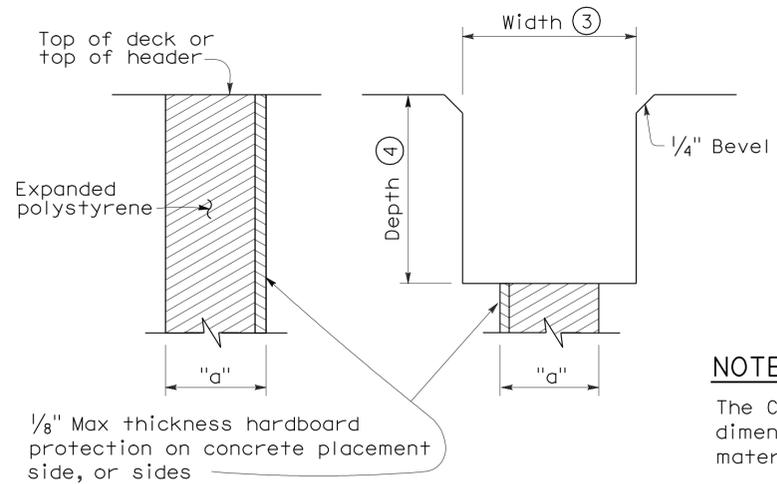


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



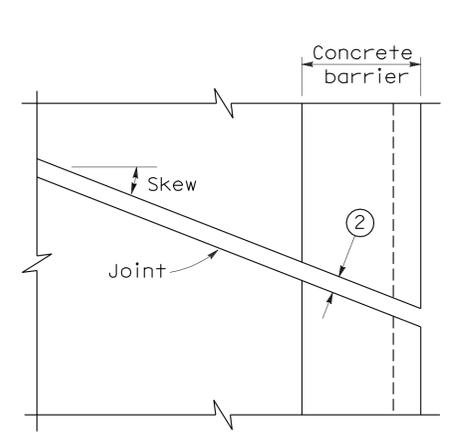
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

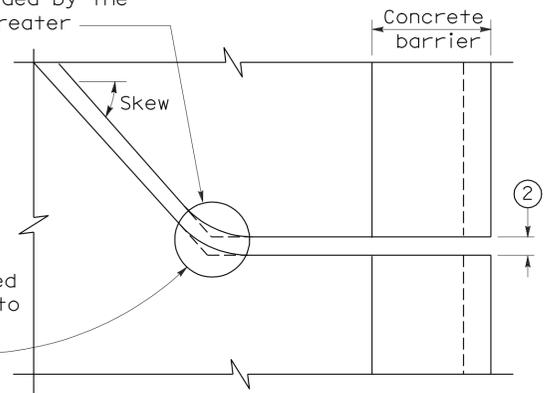
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



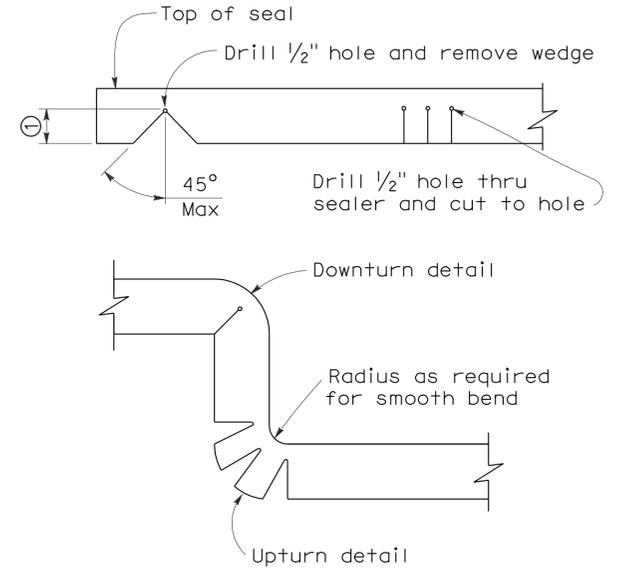
**PLAN OF JOINT (SKEW ≤ 20°)**

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.



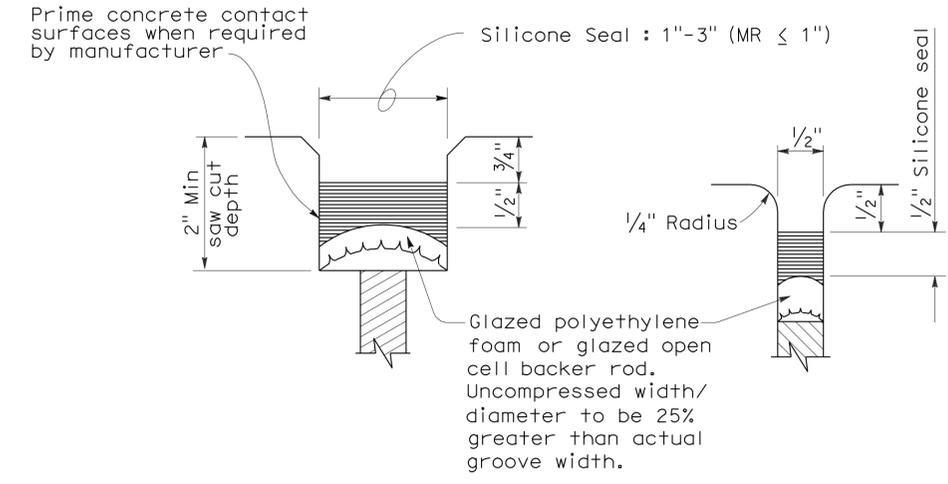
**DETAIL A**

- 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"

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

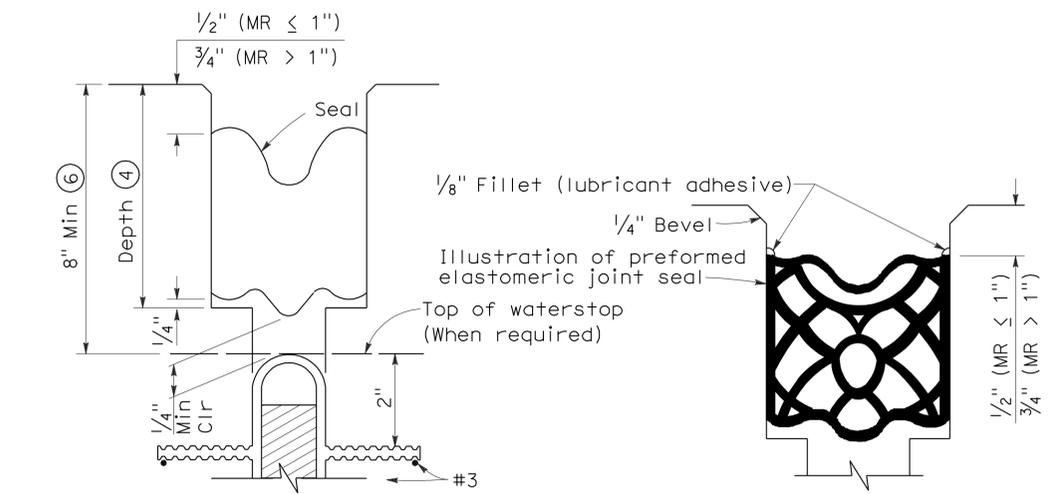


**TYPE A SEAL**

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

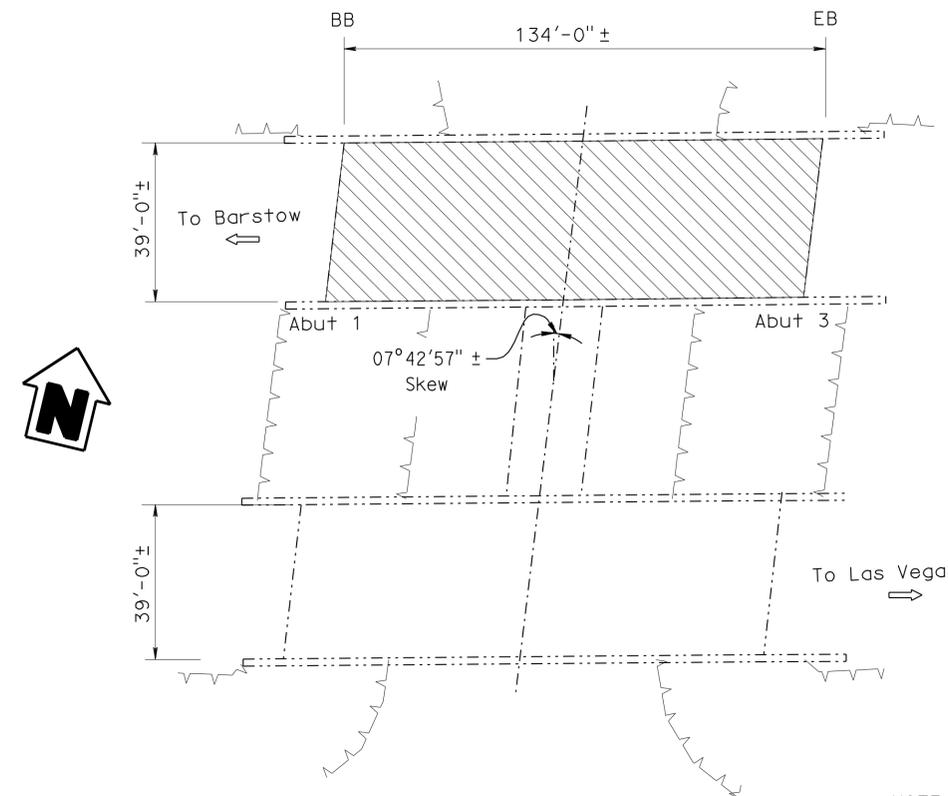
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	23	33

Registered Professional Engineer  
 REYNALDO J. CASTRO  
 No. C36231  
 Exp. 6-30-12  
 CIVIL  
 STATE OF CALIFORNIA

10-13-10  
 REGISTERED CIVIL ENGINEER DATE

2-28-11  
 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.



### INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN 1
2	GENERAL PLAN 2
3	GENERAL PLAN 3
4	GENERAL PLAN 4
5	GENERAL PLAN 5
6	GENERAL PLAN 6
7	GENERAL PLAN 7
8	GENERAL PLAN 8
9	GENERAL PLAN 9
10	GENERAL PLAN 10
11	DECK REPAIR DETAILS

#### LEGEND:

- INDICATES EXISTING STRUCTURE
- [Hatched Box] INDICATES LIMITS OF REMOVE EXISTING 2"± THICK AC.
- [Diagonal Hatched Box] INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK REPAIR DETAIL".
- (-) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

### STANDARD PLANS DATED MAY 2006

SHEET No.	TITLE
A10A TO A10B	ACRONYMS AND ABBREVIATIONS
RSP B6-21	JOINT SEALS (MAXIMUM MR=2")

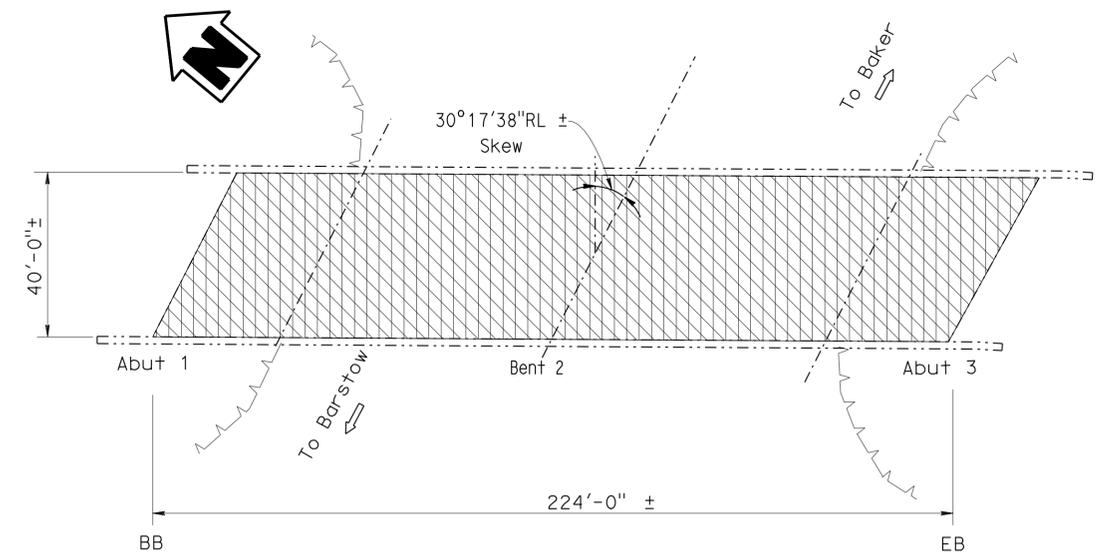
NOTE:  
 FOR LIMITS OF REMOVE DECK SURFACE, SEE "LONGITUDINAL OVERLAY CONFORM DETAIL" ON "DECK REPAIR DETAILS" SHEET.

### 1 GHOST TOWN ROAD UNDERCROSSING

BR. No. 54-0627L, Rte 15, PM 81.8  
NO SCALE

QUANTITIES	54-0627L
REMOVE CONCRETE DECK SURFACE	1,716 SQFT
REMOVE UNSOUND CONCRETE	17 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,226 SQFT
RAPID SETTING CONCRETE (PATCH)	17 CF
FURNISH POLYESTER CONCRETE OVERLAY	392 CF
PLACE POLYESTER CONCRETE OVERLAY	5,226 SQFT

QUANTITIES	54-0628
REMOVE ASPHALT CONCRETE SURFACING	8,960 SQFT
REMOVE UNSOUND CONCRETE	149 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	8,960 SQFT
RAPID SETTING CONCRETE (PATCH)	149 CF
FURNISH POLYESTER CONCRETE OVERLAY	672 CF
PLACE POLYESTER CONCRETE OVERLAY	8,960 SQFT



NOTE:  
 ADJUST ROADWAY PAVEMENT TO MATCH 1.5% ± DECK CROSS SLOPE AND FINAL DECK GRADE, SEE "ROAD PLANS".

### 2 CALICO ROAD OVERCROSSING

BR. No. 54-0628, Rte 15, PM 84.6  
NO SCALE

REMOVE AC / POLYESTER OVERLAY  
 Br. Nos. 54-0627L & 54-0628  
**GENERAL PLAN 1**

 DESIGN ENGINEER 10-13-10	DESIGN	BY R. Castro	CHECKED H. Su	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	Var	
	DETAILS	BY M. Yu	CHECKED R. Castro	LAYOUT	BY M. Yu			CHECKED R. Castro	POST MILE	Var
	QUANTITIES	BY R. Castro	CHECKED H. Su	SPECIFICATIONS	BY E. Rufino			PLANS AND SPECS COMPARED	Var	

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08608 EA OP2101	DISREGARD PRINTS BEARING EARLIER REVISION DATES	5-18-10 7-13-10 9-23-10 10-07-10	SHEET 1 OF 11
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USERNAME => rjlenard DATE PLOTTED => 28-FEB-2011 TIME PLOTTED => 07:45

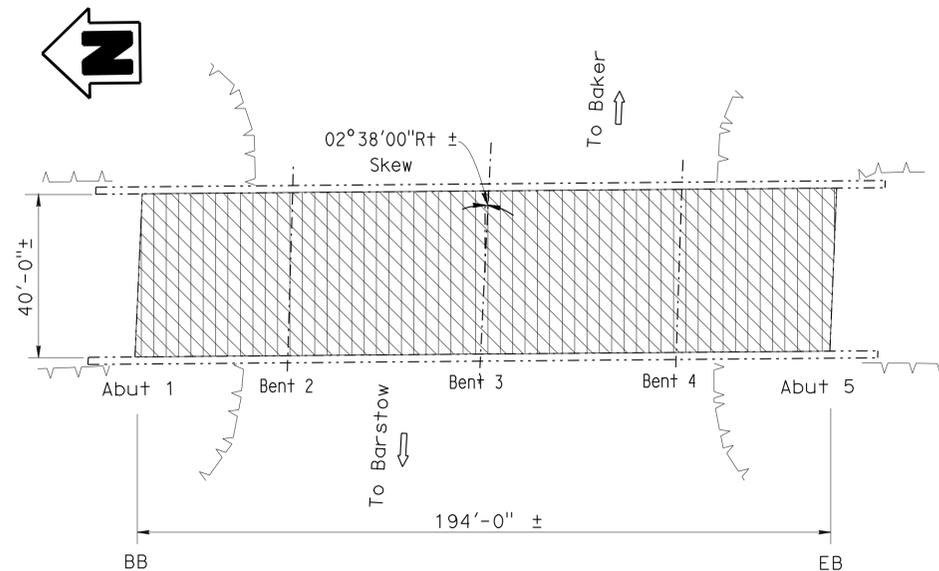
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	24	33

REYNALDO J. CASTRO 10-13-10  
 REGISTERED CIVIL ENGINEER DATE

2-28-11  
 PLANS APPROVAL DATE

REYNALDO J. CASTRO  
 No. C36231  
 Exp. 6-30-12  
 CIVIL  
 STATE OF CALIFORNIA

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③ **FIRST STREET OVERCROSSING**  
 BR. No. 54-0629, Rte 15, PM 85.7  
 NO SCALE

NOTE:  
 ADJUST ROADWAY PAVEMENT TO MATCH 1.5% ±  
 DECK CROSS SLOPE AND FINAL DECK GRADE, SEE  
 "ROAD PLANS".

**LEGEND:**

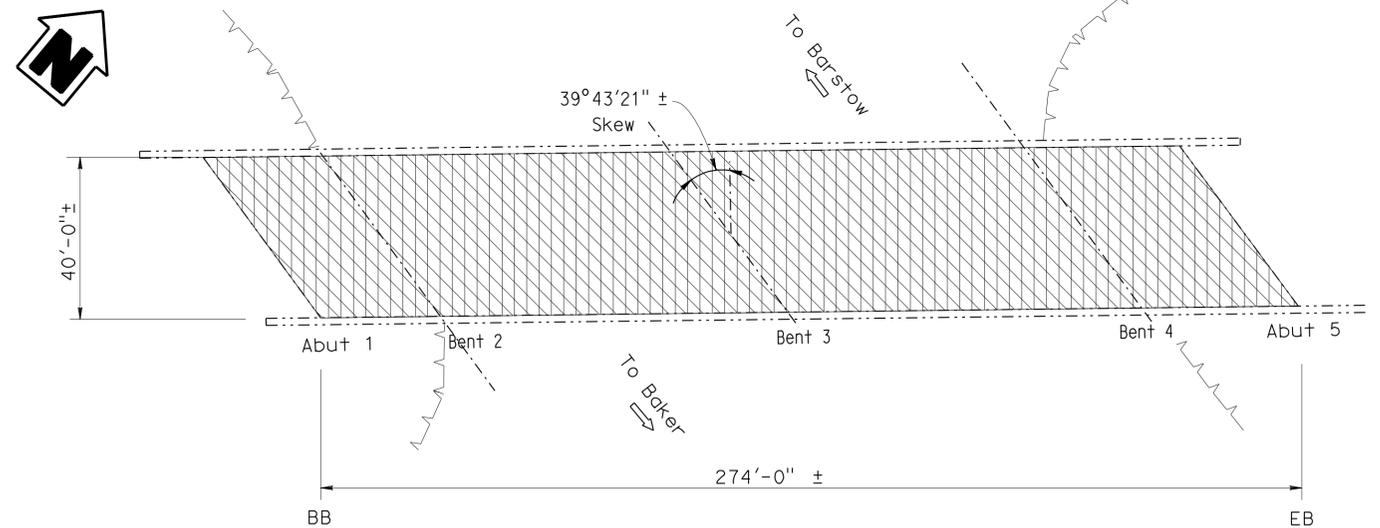
- INDICATES EXISTING STRUCTURE
- [Vertical Lines] INDICATES LIMITS OF REMOVE EXISTING 2"± THICK AC.
- [Diagonal Lines] INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK REPAIR DETAIL".
- INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

③ FIRST ST OC  
 QUANTITIES  
 54-0629

REMOVE ASPHALT CONCRETE SURFACING	7,760	SQFT
REMOVE UNSOUND CONCRETE	129	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,760	SQFT
RAPID SETTING CONCRETE (PATCH)	129	CF
FURNISH POLYESTER CONCRETE OVERLAY	582	CF
PLACE POLYESTER CONCRETE OVERLAY	7,760	SQFT

④ EAST YERMO RD OC  
 QUANTITIES  
 54-0631

REMOVE ASPHALT CONCRETE SURFACING	10,960	SQFT
REMOVE UNSOUND CONCRETE	183	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	10,960	SQFT
RAPID SETTING CONCRETE (PATCH)	183	CF
FURNISH POLYESTER CONCRETE OVERLAY	822	CF
PLACE POLYESTER CONCRETE OVERLAY	10,960	SQFT



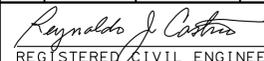
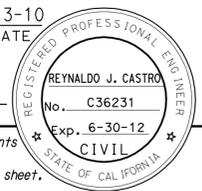
④ **EAST YERMO ROAD OVERCROSSING**  
 BR. No. 54-0631, Rte 15, PM 86.4  
 NO SCALE

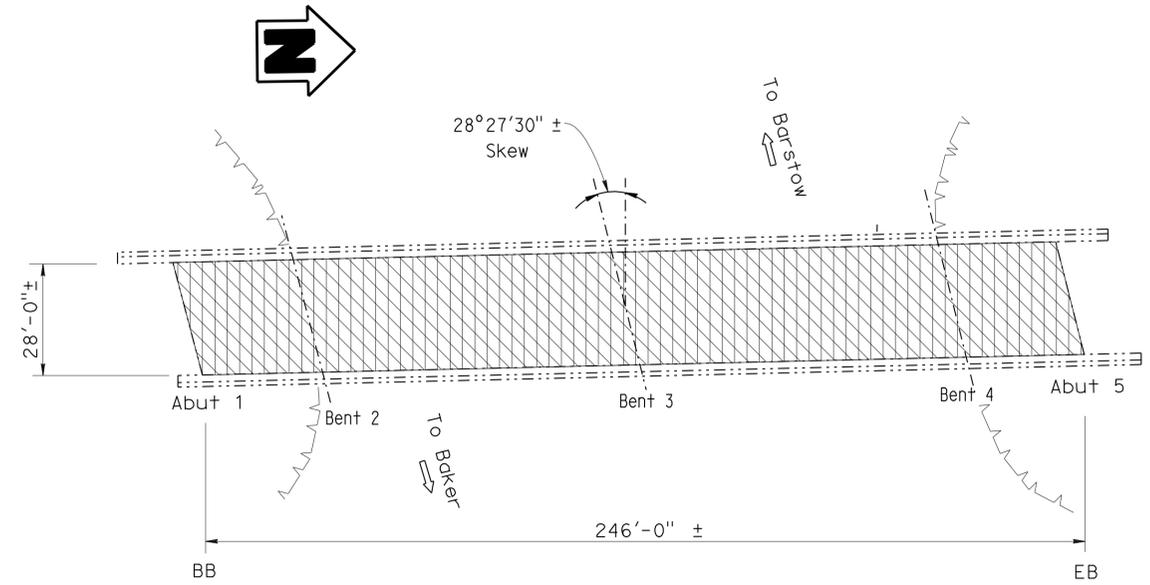
NOTE:  
 ADJUST ROADWAY PAVEMENT TO MATCH 1.5% ±  
 DECK CROSS SLOPE AND FINAL DECK GRADE, SEE  
 "ROAD PLANS".

**REMOVE AC / POLYESTER OVERLAY**  
**Br. Nos. 54-0629 & 54-0631**  
**GENERAL PLAN 2**

 DESIGN ENGINEER 10-13-10	DESIGN	BY R. Castro	CHECKED H. Su	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE AND INVESTIGATIONS</b>	BRIDGE NO.	Var	
	DETAILS	BY M. Yu	CHECKED R. Castro	LAYOUT	BY M. Yu			CHECKED R. Castro	POST MILE	Var
	QUANTITIES	BY R. Castro	CHECKED H. Su	SPECIFICATIONS	BY E. Rufino			PLANS AND SPECS COMPARED		

USERNAME => rjlenard DATE PLOTTED => 28-FEB-2011 TIME PLOTTED => 07:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	25	33
 REGISTERED CIVIL ENGINEER			10-13-10	DATE	
2-28-11 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>					



**5 MINNEOLA ROAD OVERCROSSING**  
 BR. No. 54-0632, Rte 15, PM 88.5  
 NO SCALE

NOTE:  
 ADJUST ROADWAY PAVEMENT TO MATCH 1.5% ±  
 DECK CROSS SLOPE AND FINAL DECK GRADE, SEE  
 "ROAD PLANS".

- LEGEND:**
- INDICATES EXISTING STRUCTURE
  - [Vertical Lines] INDICATES LIMITS OF REMOVE EXISTING 2"± THICK AC.
  - [Diagonal Lines] INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK REPAIR DETAIL".
  - (-) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

**5 MINEOLA RD OC** 54-0632

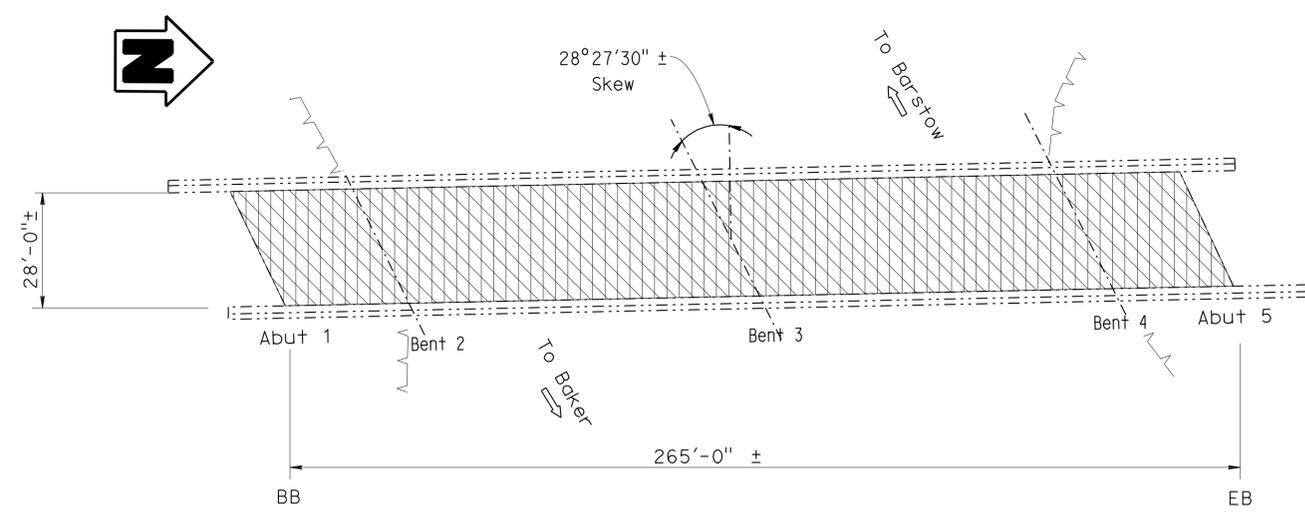
QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	6,888	SQFT
REMOVE UNSOUND CONCRETE	110	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,888	SQFT
RAPID SETTING CONCRETE (PATCH)	110	CF
FURNISH POLYESTER CONCRETE OVERLAY	517	CF
PLACE POLYESTER CONCRETE OVERLAY	6,888	SQFT

**6 HARVARD RD OC** 54-0634

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	7,420	SQFT
REMOVE UNSOUND CONCRETE	124	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,420	SQFT
RAPID SETTING CONCRETE (PATCH)	124	CF
FURNISH POLYESTER CONCRETE OVERLAY	557	CF
PLACE POLYESTER CONCRETE OVERLAY	7,420	SQFT



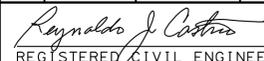
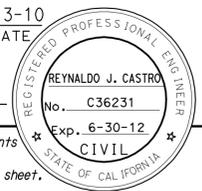
**6 HARVARD ROAD OVERCROSSING**  
 BR. No. 54-0634, Rte 15, PM 96.4  
 NO SCALE

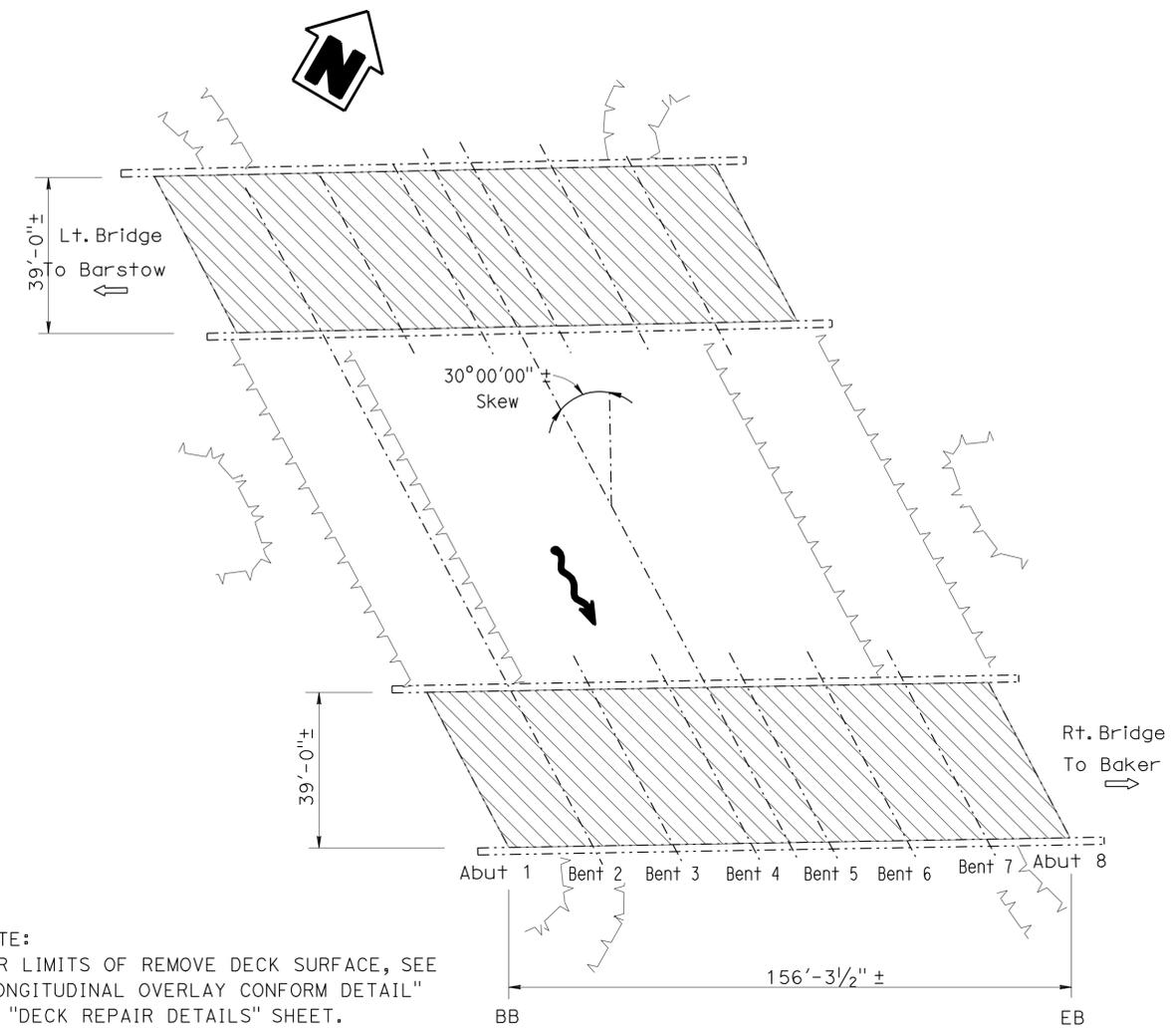
NOTE:  
 ADJUST ROADWAY PAVEMENT TO MATCH 1.5% ±  
 DECK CROSS SLOPE AND FINAL DECK GRADE, SEE  
 "ROAD PLANS".

**REMOVE AC / POLYESTER OVERLAY**  
 Br. Nos. 54-0632 & 54-0634  
**GENERAL PLAN 3**

 DESIGN ENGINEER 10-13-10	DESIGN	BY R. Castro	CHECKED H. Su	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY M. Yu	CHECKED R. Castro	LAYOUT	BY M. Yu
	QUANTITIES	BY R. Castro	CHECKED H. Su	SPECIFICATIONS	BY E. Rufino

<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO. Var
		POST MILE Var
		Var

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	26	33
 REGISTERED CIVIL ENGINEER DATE 10-13-10					
2-28-11 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>					



8 WEST MANIX WASH 54-0636L

QUANTITIES		
REMOVE CONCRETE DECK SURFACE	1,716	SQFT
REMOVE UNSOUND CONCRETE	20	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,095	SQFT
RAPID SETTING CONCRETE (PATCH)	20	CF
FURNISH POLYESTER CONCRETE OVERLAY	457	CF
PLACE POLYESTER CONCRETE OVERLAY	6,095	SQFT

9 WEST MANIX WASH 54-0636R

QUANTITIES		
REMOVE CONCRETE DECK SURFACE	1,716	SQFT
REMOVE UNSOUND CONCRETE	20	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,095	SQFT
RAPID SETTING CONCRETE (PATCH)	20	CF
FURNISH POLYESTER CONCRETE OVERLAY	457	CF
PLACE POLYESTER CONCRETE OVERLAY	6,095	SQFT

**LEGEND:**

----- INDICATES EXISTING STRUCTURE

 INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK REPAIR DETAIL" AND SEE "LONGITUDINAL OVERLAY CONFORM DETAIL".

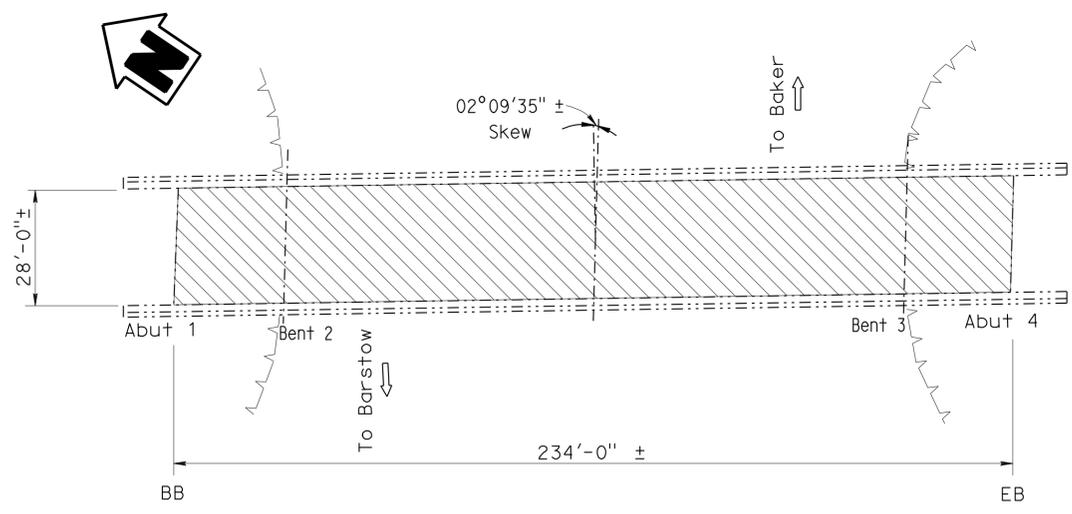
 INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

NOTE:  
FOR LIMITS OF REMOVE DECK SURFACE, SEE "LONGITUDINAL OVERLAY CONFORM DETAIL" ON "DECK REPAIR DETAILS" SHEET.

8 9 WEST MANIX WASH  
BR. No. 54-0636/L/R, Rte 15, PM 100.2  
NO SCALE

7 ALVORD MOUNTAIN RD 54-0635

QUANTITIES		
REMOVE CONCRETE DECK SURFACE	1,232	SQFT
REMOVE UNSOUND CONCRETE	22	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,552	SQFT
RAPID SETTING CONCRETE (PATCH)	22	CF
FURNISH POLYESTER CONCRETE OVERLAY	491	CF
PLACE POLYESTER CONCRETE OVERLAY	6,552	SQFT



7 ALVORD MOUNTAIN ROAD OVERCROSSING  
BR. No. 54-0635, Rte 15, PM 99.5  
NO SCALE

NOTE:  
FOR LIMITS OF REMOVE DECK SURFACE, SEE "LONGITUDINAL OVERLAY CONFORM DETAIL" ON "DECK REPAIR DETAILS" SHEET.

  
DESIGN ENGINEER 10-13-10

DESIGN	BY R. Castro	CHECKED H. Su	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED R. Castro	LAYOUT	BY M. Yu
QUANTITIES	BY R. Castro	CHECKED H. Su	SPECIFICATIONS	BY E. Rufino
				CHECKED R. Castro
				PLANS AND SPECS COMPARED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	Var
POST MILE	Var

REMOVE AC / POLYESTER OVERLAY  
Br. Nos. 54-0635 & 54-0636L/R  
GENERAL PLAN 4

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 08608  
EA OP2101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

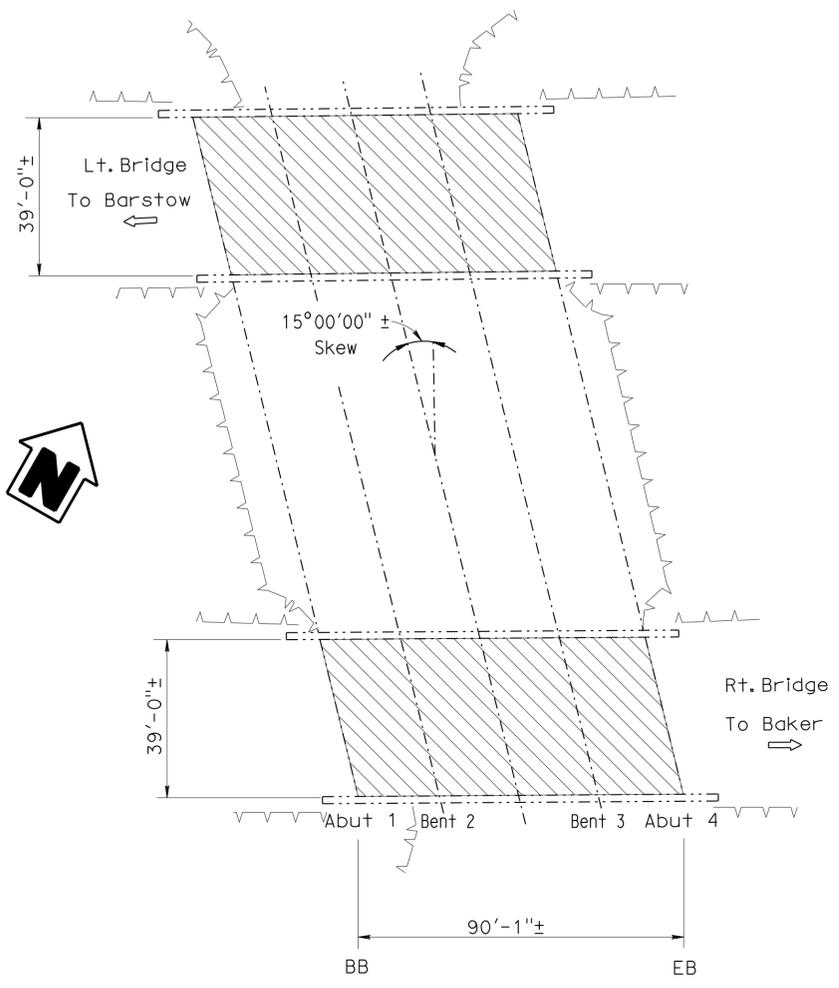
REVISION DATES					SHEET	OF
5-18-10	7-13-10	9-23-10	10-07-10		4	11

USERNAME => hrmikes DATE PLOTTED => 28-FEB-2011 TIME PLOTTED => 12:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	27	33

Registered Professional Engineer  
 REYNALDO J. CASTRO  
 No. C36231  
 Exp. 6-30-12  
 CIVIL  
 STATE OF CALIFORNIA

10-13-10 DATE  
 2-28-11 PLANS APPROVAL DATE  
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**LEGEND:**

----- INDICATES EXISTING STRUCTURE

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK REPAIR DETAIL" AND SEE "LONGITUDINAL OVERLAY CONFORM DETAIL".

INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

**10 11 EAST MANIX WASH**  
 BR. No. 54-0637/L/R, Rte 15, PM 100.7  
 NO SCALE

**NOTE:**  
 FOR LIMITS OF REMOVE DECK SURFACE, SEE "LONGITUDINAL OVERLAY CONFORM DETAIL" ON "DECK REPAIR DETAILS" SHEET.

**10 EAST MANIX WASH 54-0337L**

QUANTITIES	
REMOVE CONCRETE DECK SURFACE	1,716 SQFT
REMOVE UNSOUND CONCRETE	12 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,513 SQFT
RAPID SETTING CONCRETE (PATCH)	12 CF
FURNISH POLYESTER CONCRETE OVERLAY	263 CF
PLACE POLYESTER CONCRETE OVERLAY	3,513 SQFT

**11 EAST MANIX WASH 54-0637R**

QUANTITIES	
REMOVE CONCRETE DECK SURFACE	1,716 SQFT
REMOVE UNSOUND CONCRETE	12 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,513 SQFT
RAPID SETTING CONCRETE (PATCH)	12 CF
FURNISH POLYESTER CONCRETE OVERLAY	263 CF
PLACE POLYESTER CONCRETE OVERLAY	3,513 SQFT

DESIGN ENGINEER 10-13-10

DESIGN	BY R. Castro	CHECKED H. Su	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED R. Castro	LAYOUT	BY M. Yu
QUANTITIES	BY R. Castro	CHECKED H. Su	SPECIFICATIONS	BY E. Rufino

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	Var
POST MILE	Var

**REMOVE AC / POLYESTER OVERLAY**  
 Br. Nos. 54-0637L/R  
**GENERAL PLAN 5**

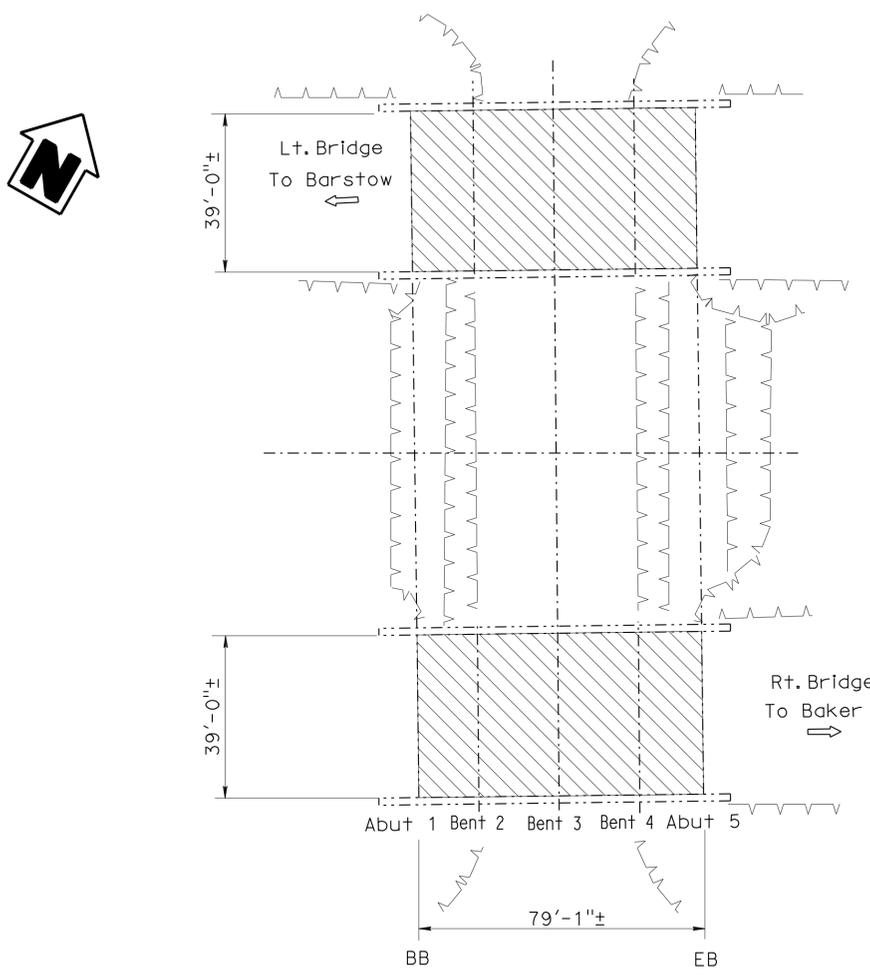
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	28	33

*Reynaldo J. Castro* 10-13-10  
 REGISTERED CIVIL ENGINEER DATE

2-28-11  
 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.



**LEGEND:**

- INDICATES EXISTING STRUCTURE
- INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK REPAIR DETAIL" AND SEE "LONGITUDINAL OVERLAY CONFORM DETAIL".
- ⊖ INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

⑫ MOUND WASH 54-0638L

QUANTITIES

REMOVE CONCRETE DECK SURFACE	1,716	SQFT
REMOVE UNSOUND CONCRETE	10	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,081	SQFT
RAPID SETTING CONCRETE (PATCH)	10	CF
FURNISH POLYESTER CONCRETE OVERLAY	231	CF
PLACE POLYESTER CONCRETE OVERLAY	3,081	SQFT

⑬ MOUND WASH 54-0638R

QUANTITIES

REMOVE CONCRETE DECK SURFACE	1,716	SQFT
REMOVE UNSOUND CONCRETE	10	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,081	SQFT
RAPID SETTING CONCRETE (PATCH)	10	CF
FURNISH POLYESTER CONCRETE OVERLAY	231	CF
PLACE POLYESTER CONCRETE OVERLAY	3,081	SQFT

⑫⑬ **MOUND WASH**  
 BR. No. 54-0638L/R, Rte 15, PM 101.3  
 NO SCALE

NOTE:  
 FOR LIMITS OF REMOVE DECK SURFACE, SEE "LONGITUDINAL OVERLAY CONFORM DETAIL" ON "DECK REPAIR DETAILS" SHEET.

*Kenneth R. Brown*  
 DESIGN ENGINEER 10-13-10

DESIGN	BY R. Castro	CHECKED H. Su	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED R. Castro	LAYOUT	BY M. Yu
QUANTITIES	BY R. Castro	CHECKED H. Su	SPECIFICATIONS	BY E. Rufino

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	Var
POST MILE	Var

**REMOVE AC / POLYESTER OVERLAY**  
 Br. Nos. 54-0638L/R  
**GENERAL PLAN 6**

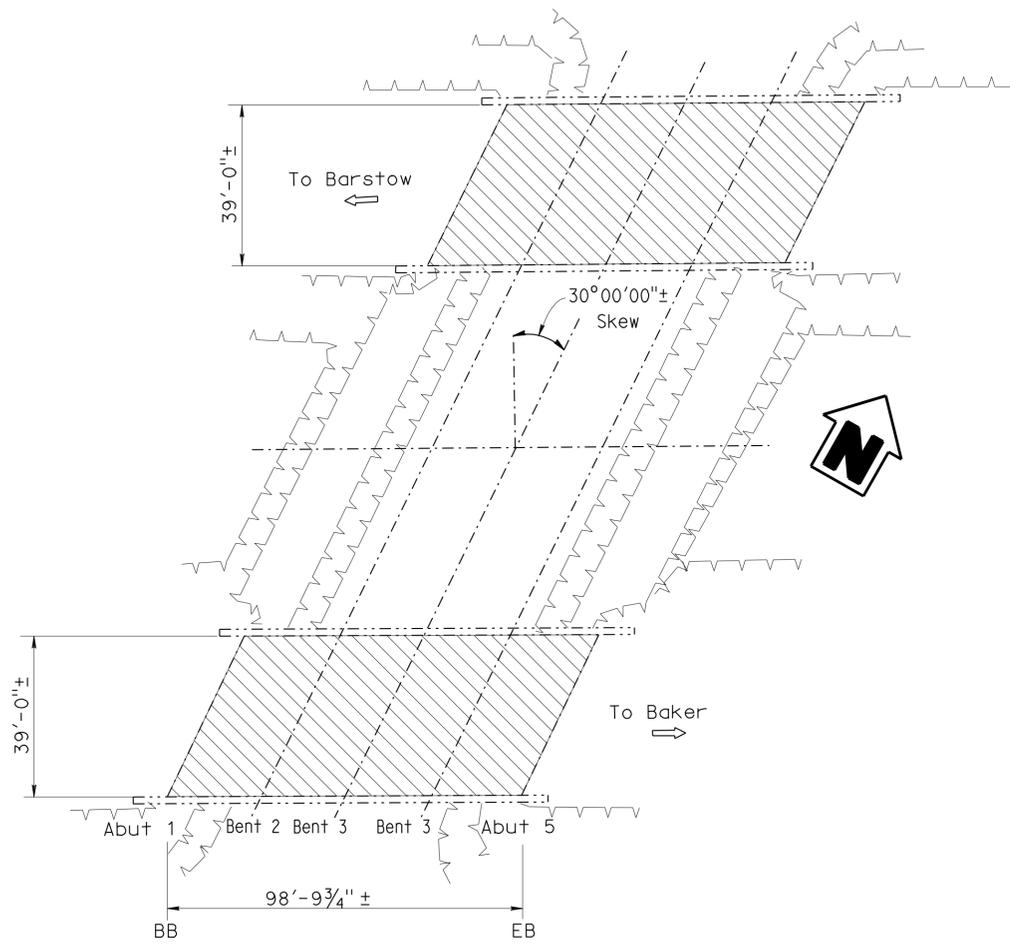
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	29	33

*Reynaldo J. Castro* 10-13-10  
 REGISTERED CIVIL ENGINEER DATE

2-28-11  
 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.



- LEGEND:**
- INDICATES EXISTING STRUCTURE
  - INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK REPAIR DETAIL" AND SEE "LONGITUDINAL OVERLAY CONFORM DETAIL".
  - INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

14 15 **FLAT DITCH**  
 BR. No. 54-0639/L/R, Rte 15, PM 101.5  
 NO SCALE

**NOTE:**  
 FOR LIMITS OF REMOVE DECK SURFACE, SEE "LONGITUDINAL OVERLAY CONFORM DETAIL" ON "DECK REPAIR DETAILS" SHEET.

14 FLAT DITCH 54-0639L

QUANTITIES		
REMOVE CONCRETE DECK SURFACE	1,716	SQFT
REMOVE UNSOUND CONCRETE	13	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,834	SQFT
RAPID SETTING CONCRETE (PATCH)	13	CF
FURNISH POLYESTER CONCRETE OVERLAY	288	CF
PLACE POLYESTER CONCRETE OVERLAY	3,834	SQFT

15 FLAT DITCH 54-0639R

QUANTITIES		
REMOVE CONCRETE DECK SURFACE	1,716	SQFT
REMOVE UNSOUND CONCRETE	13	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,834	SQFT
RAPID SETTING CONCRETE (PATCH)	13	CF
FURNISH POLYESTER CONCRETE OVERLAY	288	CF
PLACE POLYESTER CONCRETE OVERLAY	3,834	SQFT

*Kenneth R. Brown*  
 DESIGN ENGINEER 10-13-10

DESIGN	BY R. Castro	CHECKED H. Su	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED R. Castro	LAYOUT	BY M. Yu
QUANTITIES	BY R. Castro	CHECKED H. Su	SPECIFICATIONS	BY E. Rufino
				CHECKED R. Castro
				PLANS AND SPECS COMPARED

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	54-0639
POST MILE	101.5

**REMOVE AC / POLYESTER OVERLAY**  
 Br. Nos. 54-0639L/R  
**GENERAL PLAN 7**

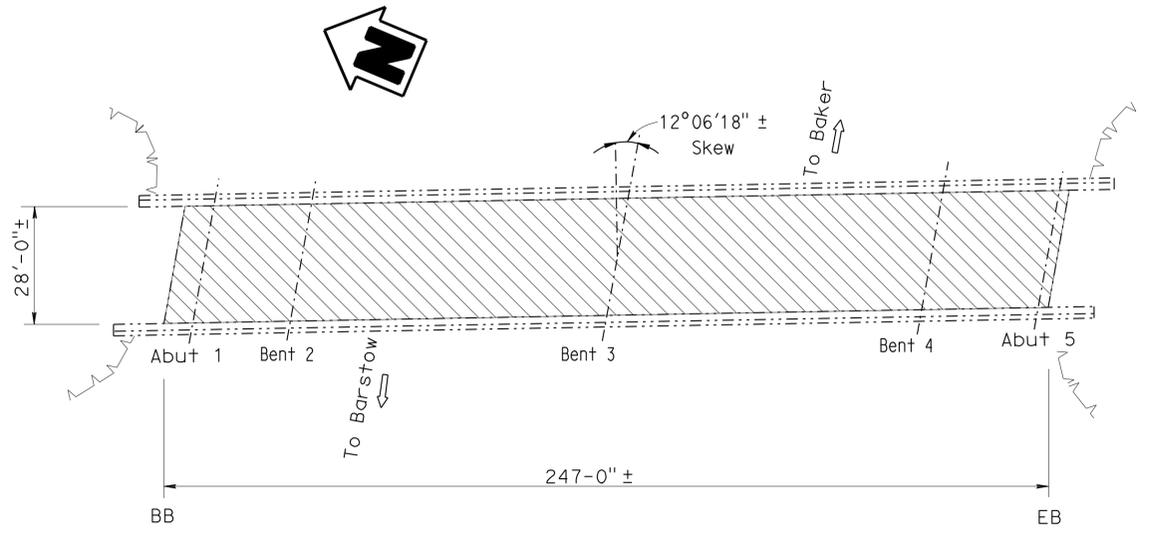
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	30	33

Registered Professional Engineer  
 REYNALDO J. CASTRO  
 No. C36231  
 Exp. 6-30-12  
 CIVIL  
 STATE OF CALIFORNIA

10-13-10  
 REGISTERED CIVIL ENGINEER DATE

2-28-11  
 PLANS APPROVAL DATE

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**LEGEND:**

- INDICATES EXISTING STRUCTURE
-  INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK REPAIR DETAIL" AND SEE "LONGITUDINAL OVERLAY CONFORM DETAIL".
-  INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

**16 FIELD ROAD OVERCROSSING**  
 BR. No. 54-0640, Rte 15, PM 103.6  
 NO SCALE

NOTE:  
 FOR LIMITS OF REMOVE DECK SURFACE, SEE "LONGITUDINAL OVERLAY CONFORM DETAIL" ON "DECK REPAIR DETAILS" SHEET.

16 FIELD RD OC	QUANTITIES	54-0640
REMOVE CONCRETE DECK SURFACE	1,232 SQFT	
REMOVE UNSOUND CONCRETE	23 CF	
PREPARE CONCRETE BRIDGE DECK SURFACE	6,916 SQFT	
RAPID SETTING CONCRETE (PATCH)	23 CF	
FURNISH POLYESTER CONCRETE OVERLAY	519 CF	
PLACE POLYESTER CONCRETE OVERLAY	6,916 SQFT	

  
 DESIGN ENGINEER 10-13-10

DESIGN	BY R. Castro	CHECKED H. Su	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED R. Castro	LAYOUT	BY M. Yu
QUANTITIES	BY R. Castro	CHECKED H. Su	SPECIFICATIONS	BY E. Rufino

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE  
 AND INVESTIGATIONS

BRIDGE NO.	Var
POST MILE	Var

**REMOVE AC / POLYESTER OVERLAY**  
**Br. Nos. 54-0640**  
**GENERAL PLAN 8**

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 08608  
EA OP2101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES					SHEET	OF
5-18-10	7-13-10	9-23-10	10-07-10		8	11

USERNAME => hrmikes DATE PLOTTED => 28-FEB-2011 TIME PLOTTED => 12:50

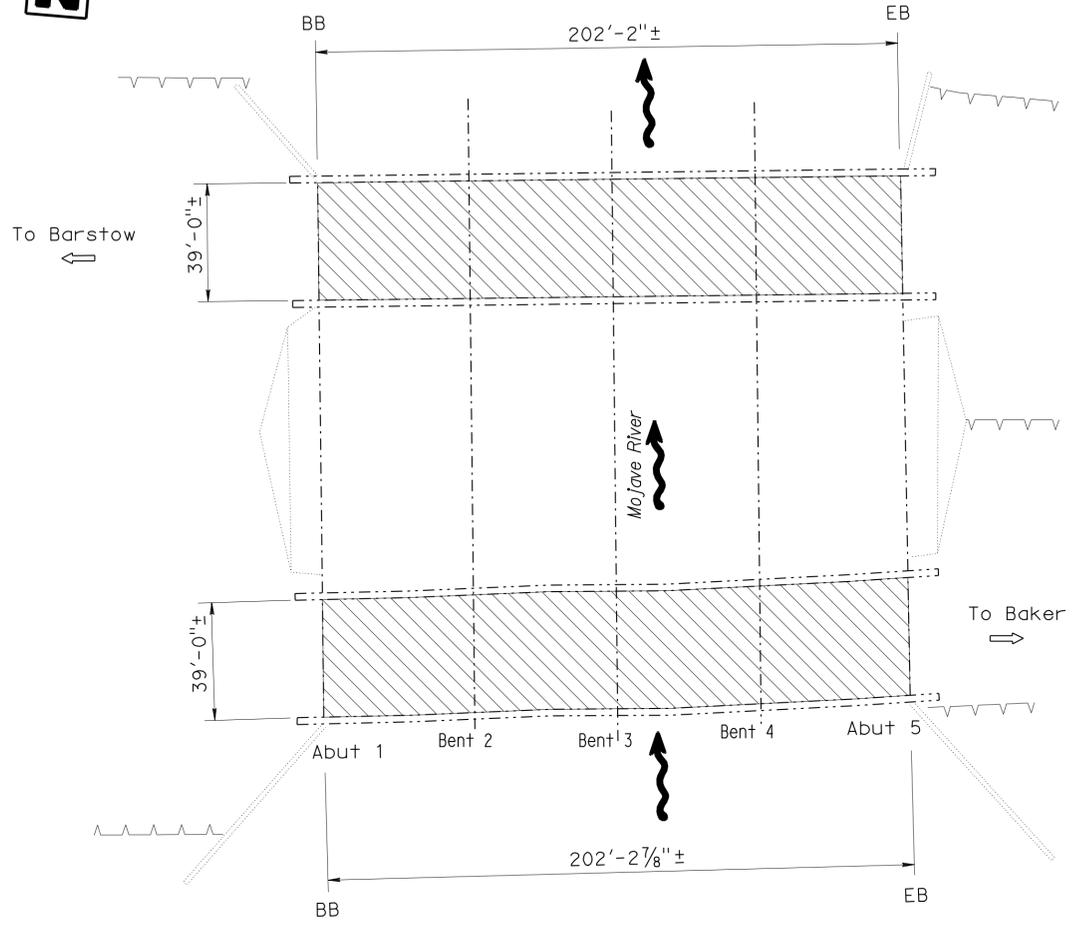
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Sbd	15	R81.8/R138.5	31	33

*Reynaldo J. Castro* 10-13-10  
REGISTERED CIVIL ENGINEER DATE

2-28-11  
PLANS APPROVAL DATE

REYNALDO J. CASTRO  
No. C36231  
Exp. 6-30-12  
CIVIL  
STATE OF CALIFORNIA

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**LEGEND:**

- INDICATES EXISTING STRUCTURE
- INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK REPAIR DETAIL" AND SEE "LONGITUDINAL OVERLAY CONFORM DETAIL".
- INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

①⑦ MOJAVE RIVER OVERFLOW 54-0642L

QUANTITIES

REMOVE CONCRETE DECK SURFACE	1,716	SQFT
REMOVE UNSOUND CONCRETE	26	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,878	SQFT
RAPID SETTING CONCRETE (PATCH)	26	CF
FURNISH POLYESTER CONCRETE OVERLAY	591	CF
PLACE POLYESTER CONCRETE OVERLAY	7,878	SQFT

①⑧ MOJAVE RIVER OVERFLOW 54-0642R

QUANTITIES

REMOVE CONCRETE DECK SURFACE	1,716	SQFT
REMOVE UNSOUND CONCRETE	26	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,878	SQFT
RAPID SETTING CONCRETE (PATCH)	26	CF
FURNISH POLYESTER CONCRETE OVERLAY	591	CF
PLACE POLYESTER CONCRETE OVERLAY	7,878	SQFT

①⑦⑧ **MOJAVE RIVER OVERFLOW**  
BR. No. 54-0642L/R, Rte 15, PM 120.1  
NO SCALE

**NOTE:**  
FOR LIMITS OF REMOVE DECK SURFACE, SEE "LONGITUDINAL OVERLAY CONFORM DETAIL" ON "DECK REPAIR DETAILS" SHEET.

*Kenneth R. Brown*  
DESIGN ENGINEER 10-13-10

DESIGN	BY R. Castro	CHECKED H. Su	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED R. Castro	LAYOUT	BY M. Yu
QUANTITIES	BY R. Castro	CHECKED H. Su	SPECIFICATIONS	BY E. Rufino

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	54-0642
POST MILE	120.1

**REMOVE AC / POLYESTER OVERLAY**  
**Br. Nos. 54-0642L/R**  
**GENERAL PLAN 9**

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

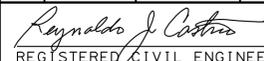
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

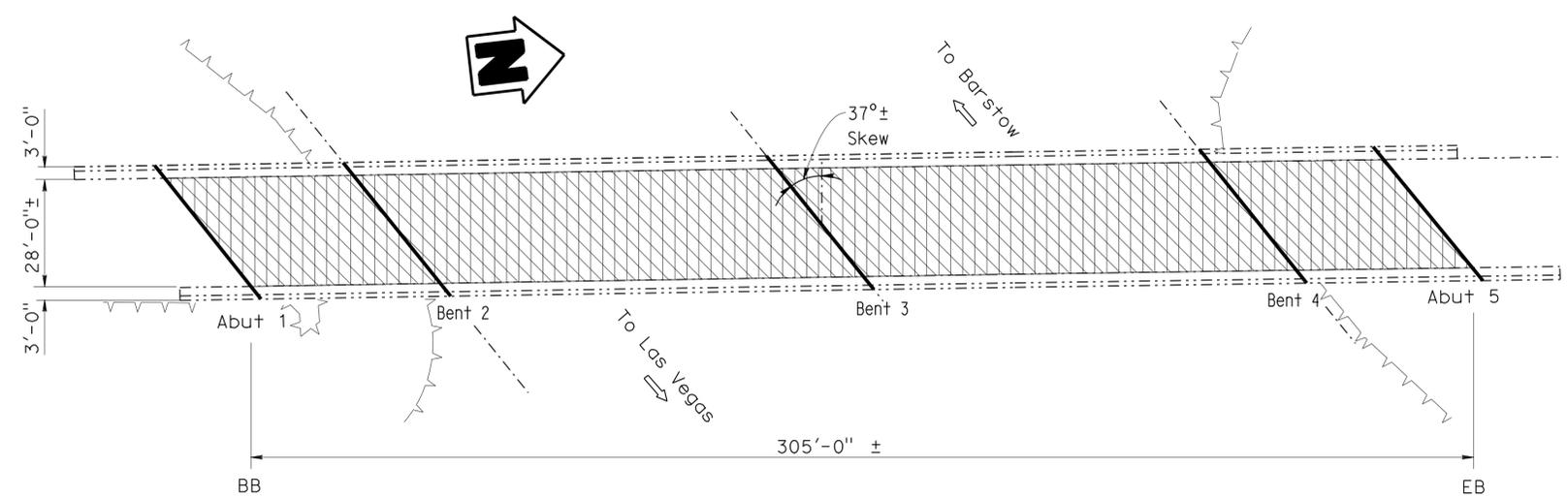
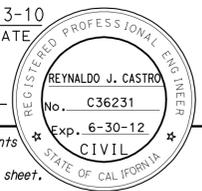
CU 08608  
EA OP2101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES					SHEET	OF
5-18-10	7-13-10	9-23-10	10-07-10		9	11

USERNAME => H:\Bridge\_Preservation\119-10\OP2101-rey\OP2101SBD\08-OP2101gp009.dgn TIME PLOTTED => 07:45 28-FEB-2011

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	32	33
 REGISTERED CIVIL ENGINEER			10-13-10	DATE	
2-28-11 PLANS APPROVAL DATE					
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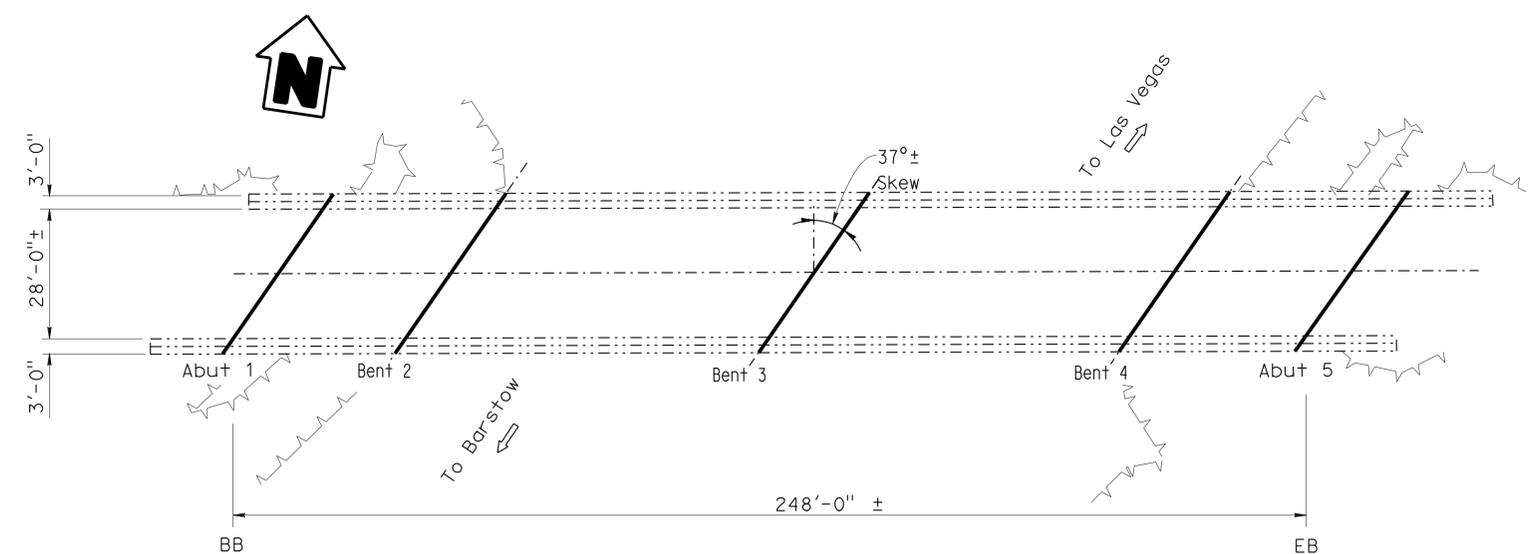


**19 WEST BAKER OFF-RAMP OVERCROSSING**  
 BR. No. 54-0609S, R+e 15, PM R135.81  
 NO SCALE

NOTE:  
 ADJUST ROADWAY PAVEMENT TO MATCH 1.5% ± DECK CROSS SLOPE AND FINAL DECK GRADE, SEE "ROAD PLANS".

**LEGEND:**

-  INDICATES EXISTING STRUCTURE
-  INDICATES LIMITS OF REMOVE EXISTING 2"± THICK AC.
-  INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK REPAIR DETAIL".
-  INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL AND PLACE JOINT SEAL.
-  INDICATES BRIDGE LOCATION, SEE TITLE SHEET.



**20 EAST BAKER OVERCROSSING**  
 BR. No. 54-0611S, R+e 15, PM R138.46  
 NO SCALE

<b>19 WEST BAKER OFF RAMP</b>	54-0609S	
QUANTITIES		
REMOVE ASPHALT CONCRETE SURFACING	8,540	SQFT
REMOVE UNSOUND CONCRETE	142	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	8,540	SQFT
CLEAN EXPANSION JOINT	213	LF
RAPID SETTING CONCRETE (PATCH)	142	CF
FURNISH POLYESTER CONCRETE OVERLAY	641	CF
PLACE POLYESTER CONCRETE OVERLAY	8,540	SQFT
JOINT SEAL (MR 1/2")	85	LF
JOINT SEAL (MR 1")	128	LF
<b>20 EAST BAKER OC</b>	54-0611S	
QUANTITIES		
CLEAN EXPANSION JOINT	213	LF
JOINT SEAL (MR 1/2")	85	LF
JOINT SEAL (MR 1")	128	LF

  
 DESIGN ENGINEER 10-13-10

DESIGN	BY R. Castro	CHECKED H. Su	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED R. Castro	LAYOUT	BY M. Yu
QUANTITIES	BY R. Castro	CHECKED H. Su	SPECIFICATIONS	BY E. Rufino

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	Var
POST MILE	Var

**REMOVE AC / POLYESTER OVERLAY**  
**Br. Nos. 54-0609S & 54-0611S**  
**GENERAL PLAN 10**

USERNAME => hrmikes DATE PLOTTED => 28-FEB-2011 TIME PLOTTED => 12:52

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	R81.8/R138.5	33	33

Registered Professional Engineer  
 REYNALDO J. CASTRO  
 No. C36231  
 Exp. 6-30-12  
 CIVIL  
 STATE OF CALIFORNIA

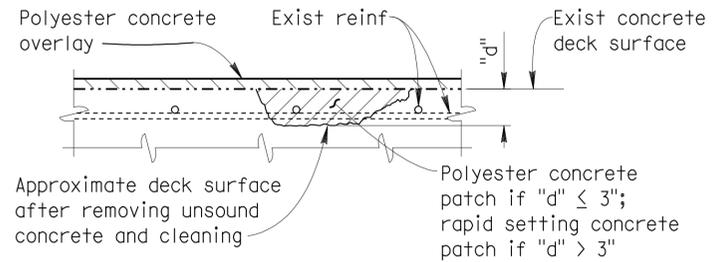
10-13-10  
 REGISTERED CIVIL ENGINEER DATE

2-28-11  
 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.

### JOINT SEAL TABLE

INDEX	BRIDGE NUMBER	JOINT LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP OR NEOPRENE SEAL	APPROXIMATE DEPTH TO CLEAN Exp JOINT (INCHES)
19	54-0609S	Abut 1	1/2	42.5	Yes	6
		Bent 2	1	42.5	Yes	6
		Bent 3	1	42.5	Yes	6
		Bent 4	1	42.5	Yes	6
		Abut 5	1/2	42.5	Yes	6
20	54-0611S	Abut 1	1/2	42.5	Yes	6
		Bent 2	1	42.5	Yes	6
		Bent 3	1	42.5	Yes	6
		Bent 4	1	42.5	Yes	6
		Abut 5	1/2	42.5	Yes	6



### DECK REPAIR DETAIL

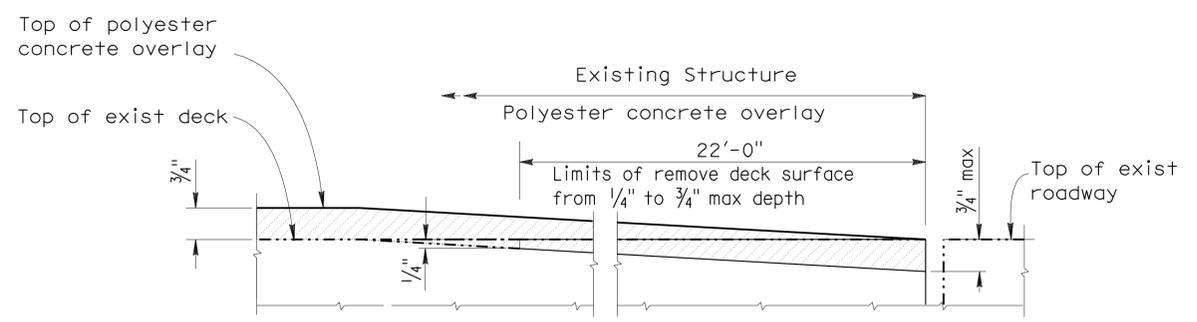
No Scale  
 Location to be determined by the Engineer.  
 Reinforcement may be encountered during deck concrete removal.

#### LEGEND:

- - - - - INDICATES EXISTING STRUCTURE  
 INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK OVERLAY DETAIL".

### DECK REPAIR TABLE

INDEX	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (percent)	APPROXIMATE DEPTH DAMAGED (inches)
1	54-0627L	2	2
2	54-0628	10	2
3	54-0629	10	2
4	54-0631	10	2
5	54-0632	10	2
6	54-0634	10	2
7	54-0635	2	2
8	54-0636L	2	2
9	54-0636R	2	2
10	54-0637L	2	2
11	54-0637R	2	2
12	54-0638L	2	2
13	54-0638R	2	2
14	54-0639L	2	2
15	54-0639R	2	2
16	54-0640	2	2
17	54-0642L	2	2
18	54-0642R	2	2
19	54-0609S	2	2
20	54-0611S	2	2



### LONGITUDINAL OVERLAY CONFORM DETAIL

NO SCALE

DESIGN	BY R. Castro	CHECKED H. Su
DETAILS	BY M. Yu	CHECKED R. Castro
QUANTITIES	BY R. Castro	CHECKED H. Su

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. Various  
 POST MILE Various

**MISCELLANEOUS DETAILS**  
**DECK REPAIR DETAILS**

REVISION DATES: 7-13-10, 7-26-10, 9-23-10, 10-07-10

SHEET 11 OF 11