

INDEX OF PLANS

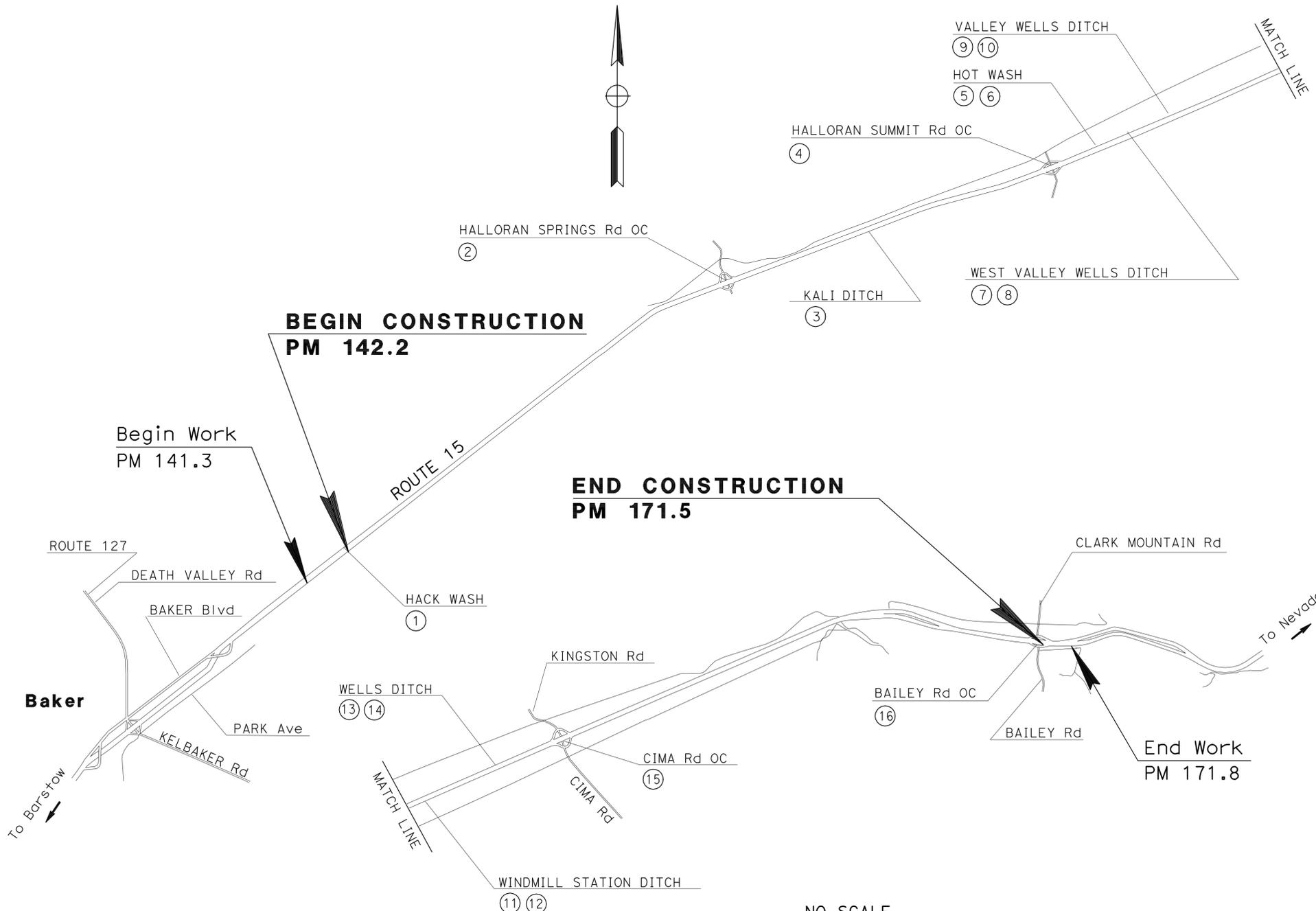
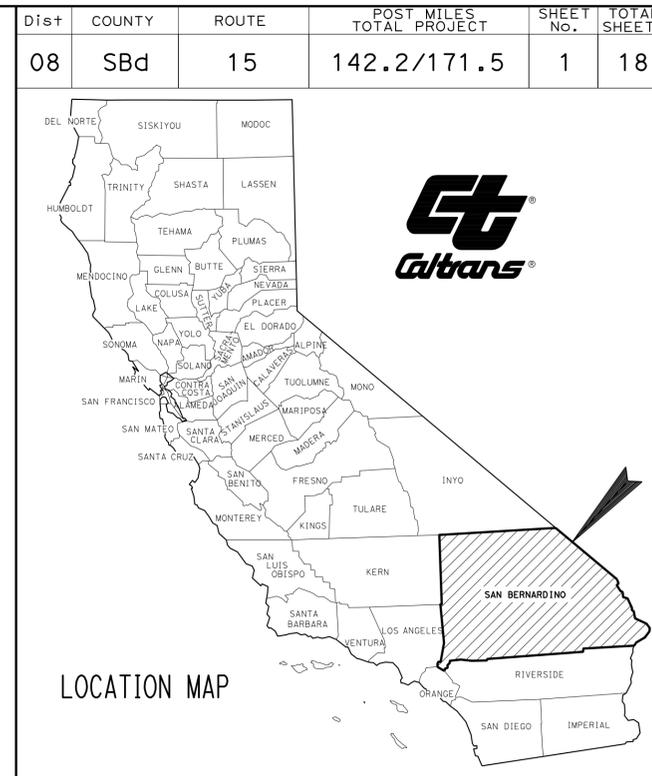
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION DETAILS
3	PAVEMENT DELINEATION QUANTITIES
4-5	SIGN DETAILS AND QUANTITIES
6	SUMMARY OF QUANTITIES
7	CONSTRUCTION AREA SIGNS
8-11	REVISED STANDARD PLANS

STRUCTURE PLANS
12-18 ROUTE 15 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 SAN BERNARDINO COUNTY
NEAR BAKER
AT VARIOUS LOCATIONS
FROM HACK WASH BRIDGE
TO BAILEY ROAD OVERCROSSING**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



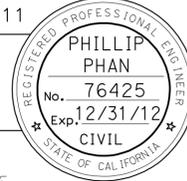
LOCATIONS OF CONSTRUCTION

Loc (X)	PM	NAME OF BRIDGE	BRIDGE NUMBER
1	142.26	HACK WASH	54-1268R
2	149.60	HALLORAN SPRINGS Rd OC	54-0338
3	154.67	KALI DITCH	54-1269L
4	155.57	HALLORAN SUMMIT Rd OC	54-0347
5	160.67	HOT WASH	54-1204L
6	160.67	HOT WASH	54-1204R
7	160.94	WEST VALLEY WELLS DITCH	54-1205L
8	160.94	WEST VALLEY WELLS DITCH	54-1205R
9	161.50	VALLEY WELLS DITCH	54-1206L
10	161.50	VALLEY WELLS DITCH	54-1206R
11	162.19	WINDMILL STATION DITCH	54-1207L
12	162.19	WINDMILL STATION DITCH	54-1207R
13	162.47	WELLS DITCH	54-1208L
14	162.47	WELLS DITCH	54-1208R
15	162.73	CIMA Rd OC	54-0363
16	171.47	BAILEY Rd OC	54-0613

PROJECT MANAGER
CATALINO PINING

DESIGN ENGINEER
PHILLIP PHAN


 PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER
 DATE 1-31-11
 February 14, 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.	08-0P1304
PROJECT ID	0800000552

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

NO SCALE

DATE PLOTTED => 16-FEB-2011 TIME PLOTTED => 12:50
LAST REVISION 01-31-11

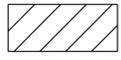
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08	SBd	15	142.2/171.5	2	18

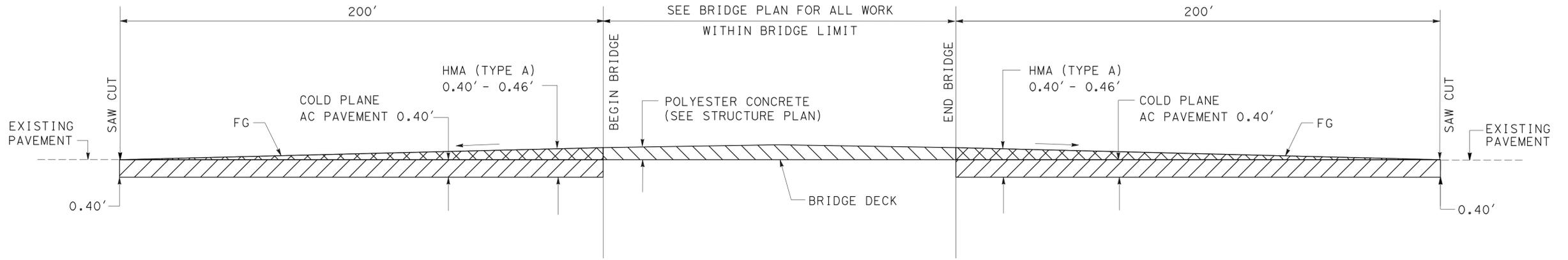
<i>Phillip Phan</i>	1-31-11
REGISTERED CIVIL ENGINEER	DATE
2-14-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	PHILLIP PHAN
No. 76425	Exp. 2/31/12
CIVIL	

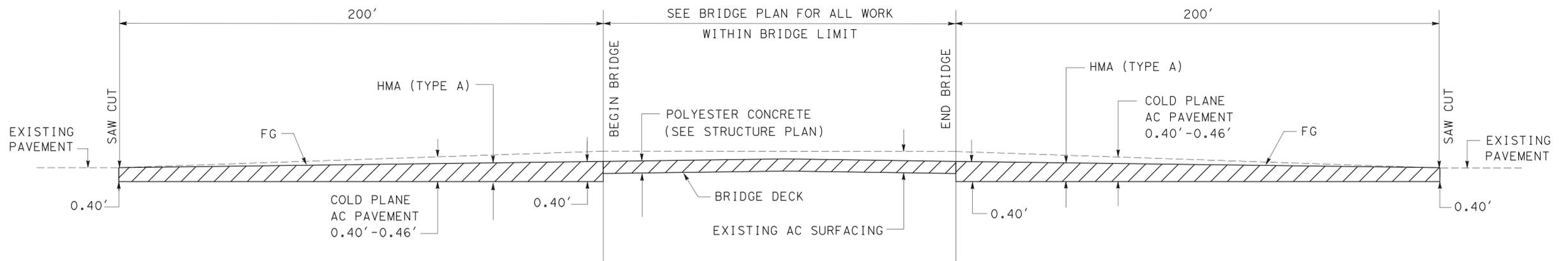
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

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



HALLORAN SUMMIT ROAD OVERCROSSING AND CIMA ROAD OVERCROSSING



BAILEY ROAD OVERCROSSING

TYPICAL PAVEMENT CONFORM

CONSTRUCTION DETAILS

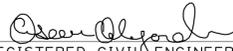
NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 PHILLIP TRUNG TRI PHAN
 MICHAEL RISTIC
 REVISIONS: 01-31-11
 REVISION: 01-31-11
 DATE PLOTTED => 16-FEB-2011
 TIME PLOTTED => 12:04



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	142.2/171.5	3	18

 1-31-11
 REGISTERED CIVIL ENGINEER DATE

2-14-11
 PLANS APPROVAL DATE

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PAVEMENT DELINEATION QUANTITIES

LOCATION			DIRECTION	REMOVE PAVEMENT MARKERS	REMOVE THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKERS		THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				
					YELLOW	WHITE	TYPE G	TYPE H	4" YELLOW		4" WHITE		
BRIDGE NAME	BRIDGE No.	ROUTE/PM		EA	LF	EA	EA	EA	EA	EA	EA	EA	EA
HACK WASH	54-1268R	15/142.26	NB	9	124	186	6	3	124		248	124	
HALLORAN SPRINGS Rd OC	54-0338	15/149.60	EB/WB		520	520				260		520	
KALI DITCH	54-1269L	15/154.67	SB	6	65	94	4	2	65		130	65	
HALLORAN SUMMIT Rd OC	54-0347	15/155.57	EB/WB		514	520				260		520	
HOT WASH	54-1204L	15/160.67	SB	16	225	334	10	6	225		450	225	
	54-1204R	15/160.67	NB	16	225	334	10	6	225		450	225	
WEST VALLEY WELLS DITCH	54-1205L	15/160.94	SB	8	145	179	4	4	145		145	145	
	54-1205R	15/160.94	NB	8	145	179	4	4	145		145	145	
VALLEY WELLS DITCH	54-1206L	15/161.50	SB	6	105	128	3	3	105		105	105	
	54-1206R	15/161.50	NB	6	105	128	3	3	105		105	105	
WINDMILL STATION DITCH	54-1207L	15/162.19	SB	8	145	178	4	4	145		145	145	
	54-1207R	15/162.19	NB	8	145	178	4	4	145		145	145	
WELLS DITCH	54-1208L	15/162.47	SB	10	185	229	5	5	185		185	185	
	54-1208R	15/162.47	NB	10	185	229	5	5	185		185	185	
CIMA Rd OC	54-0363	15/162.73	EB/WB		520	520				260		520	
BAILEY Rd OC	54-0613	15/171.47	EB/WB		420	420				210		420	
SUBTOTAL				111	3773	4356	62	49	1799	990	2438	3779	
TOTAL				111	3773	4356	111		9006				

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
 CALCULATED/DESIGNED BY: OSCAR ALEJANDRE
 CHECKED BY: SHABIB AHMED
 REVISED BY: DATE REVISION

PAVEMENT DELINEATION QUANTITIES

PDQ-1

LAST REVISION DATE PLOTTED => 16-FEB-2011
 01-31-11 TIME PLOTTED => 12:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	142.2/171.5	4	18

<i>Oscar Alejandre</i>	1-31-11
REGISTERED CIVIL ENGINEER	DATE
2-14-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER OSCAR ALEJANDRE No. C 70863 Exp 6/30/11 CIVIL STATE OF CALIFORNIA

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NOTE:

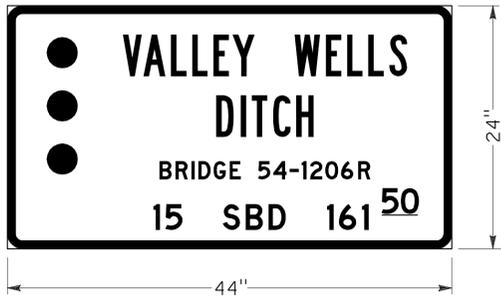
REFER TO CA STANDARD G-11 SIGN SPECS FOR ADDITIONAL DIMENSIONING.

LEGEND:

SIGN No.: SBD15NBX.X

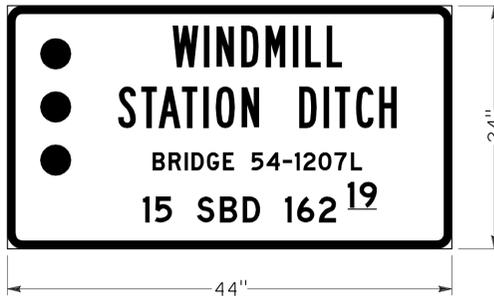
SBD15NBX.X DETERMINES THE COUNTY, ROUTE, DIRECTION, AND POSTMILE

SBD15NB161.5



1.5" RADIUS, 0.8" BORDER, BLACK ON WHITE;
 [VALLEY WELLS] 4B; [DITCH] 4B;
 [BRIDGE 54-1206R] 1.75D; [15 SBD 161.5] 2.5D;
 G11-5

SBD15SB162.19



1.5" RADIUS, 0.8" BORDER, BLACK ON WHITE;
 [WINDMILL] 4B; [STATION DITCH] 4B;
 [BRIDGE 54-1207L] 1.75D; [15 SBD 162.19] 2.5D;
 G11-5

SBD15SB154.67



1.5" RADIUS, 0.6" BORDER, BLACK ON WHITE;
 [KALI DITCH] 4D;
 [BRIDGE 54-1269L] 1.75D;
 [15 SBD 154.67] 2.5D;
 G11-4.1

SBD15NB142.26



1.5" RADIUS, 0.6" BORDER, BLACK ON WHITE;
 [HACK WASH] 4D;
 [BRIDGE 54-1268R] 1.75D;
 [15 SBD 142.26] 2.5D;
 G11-4.1

SBD15NB154.67



1.5" RADIUS, 0.6" BORDER, BLACK ON WHITE;
 [KALI DITCH] 4D;
 [BRIDGE 54-1269R] 1.75D;
 [15 SBD 154.67] 2.5D;
 G11-4.1

SIGN DETAILS

NO SCALE

SD-1

THIS PLAN ACCURATE FOR SIGN WORK ONLY

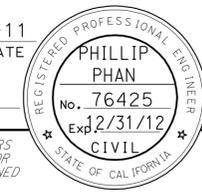
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B
 LARRY SARTORI
 OSCAR ALEJANDRE
 SHABBIR AHMED
 REVISOR BY DATE
 REVISOR BY DATE
 CALCULATED/DESIGNED BY
 CHECKED BY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	142.2/171.5	6	18

 1-31-11
 REGISTERED CIVIL ENGINEER DATE

2-14-11
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
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HMA AND COLD PLANE ASPHALT CONCRETE PAVEMENT QUANTITIES

NAME AND LOCATION	BRIDGE No.	LT Shld WIDTH	MAIN LANES	RT Shld WIDTH	TOTAL WIDTH	LENGTH	COLD PLANE	HMA (TYPE A)	TACK COAT
							(SQYD)	(TON)	(TON)
HALLORAN SUMMIT ROAD OC	54-0347	4'	28'	4'	36'	400'	1600	338	0.53
CIMA ROAD OC	54-0363	4'	28'	4'	36'	400'	1600	338	0.53
BAILEY ROAD OC	54-0613	4'	28'	4'	36'	400'	1600	338	0.53
TOTAL							4800	1014	1.59

SUMMARY OF QUANTITIES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 PHILLIP TRUNG TRI PHAN
 MICHAEL RISTIC
 MICHAEL RISTIC
 REVISIONS: 01-31-11

LAST REVISION | DATE PLOTTED => 16-FEB-2011
 01-31-11 | TIME PLOTTED => 12:05

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	142.2/171.5	7	18

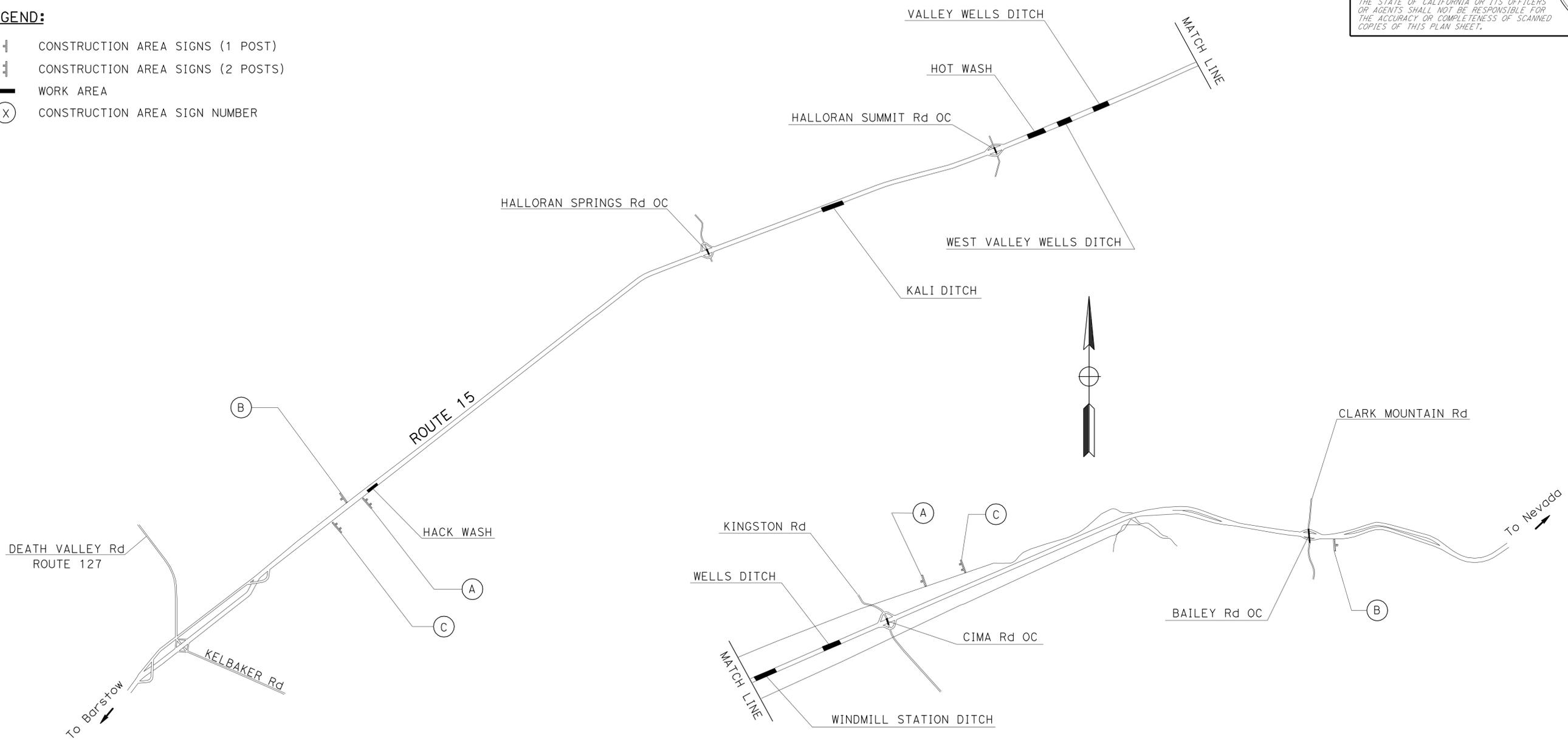
1-31-11
 REGISTERED CIVIL ENGINEER DATE
 2-14-11
 PLANS APPROVAL DATE

OSCAR ALEJANDRE
 No. C70863
 Exp 6/30/11
 CIVIL

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NOTE:
 LOCATIONS OF THE CONSTRUCTION AREA SIGNS ARE APPROXIMATE.
 THE EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

- 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. (X)	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST(S) AND SIZE	No. OF SIGNS (N)
					(EA)
A	C11(CA)	90" x 48"	ROAD CONSTRUCTION NEXT 30 MILES	2 - 6" x 6"	2
B	C14(CA)	48" x 24"	END ROAD WORK	1 - 4" x 4"	2
C	C40(CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	2
TOTAL					6

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

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Oscar Alejandre
 Functional Supervisor
 Traffic Design B
 LARRY SARTORI
 Checked By
 SHABBI AHMED
 Revised By
 DATE REVIS

LAST REVISION DATE PLOTTED => 17-FEB-2011 01-31-11 TIME PLOTTED => 09:38

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	142.2/171.5	8	18

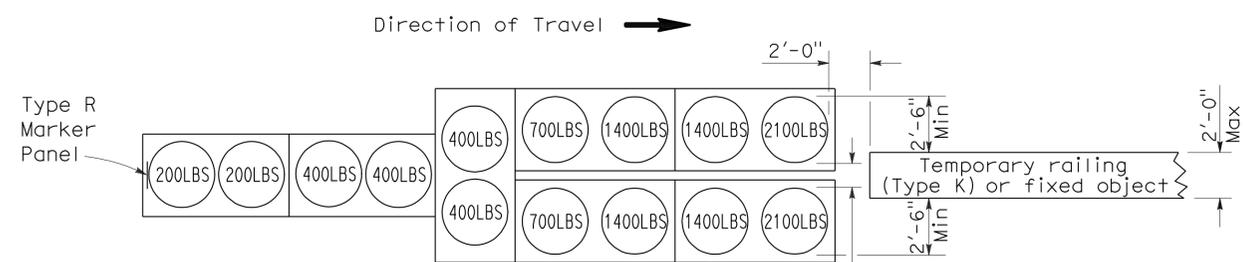
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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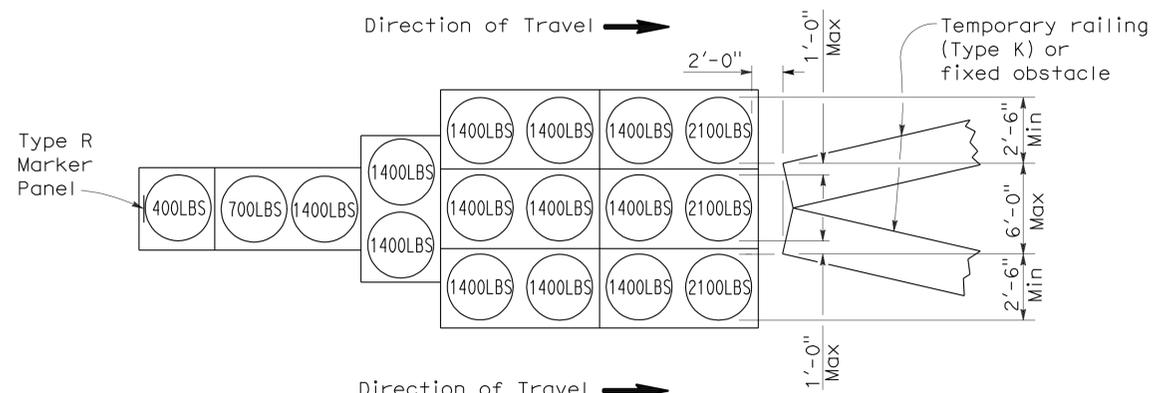
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 2-14-11



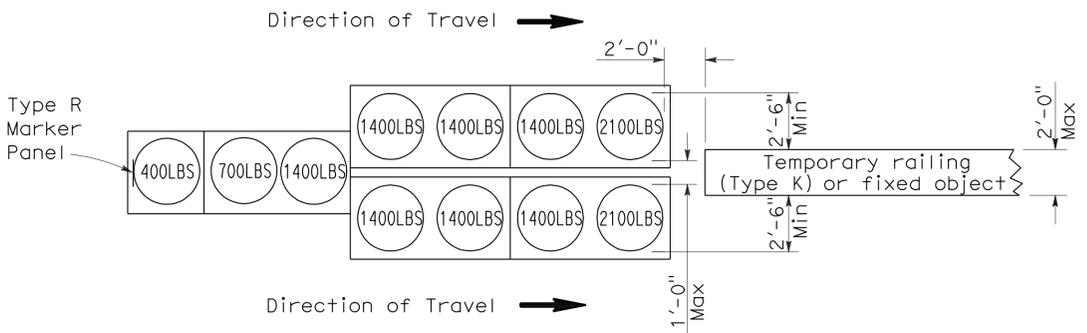
ARRAY 'TU14'

Approach speed 45 mph or more



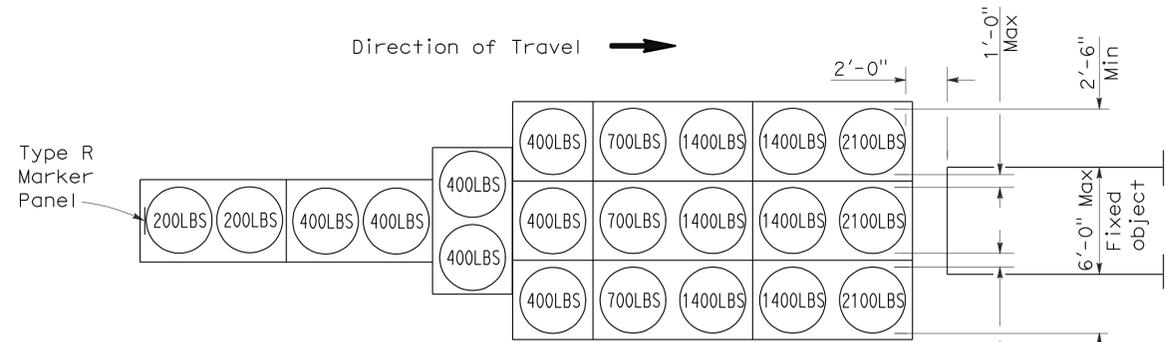
ARRAY 'TU17'

Approach speed less than 45 mph



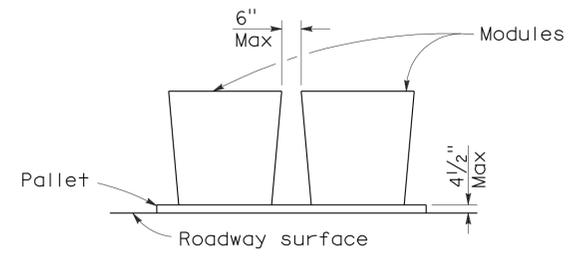
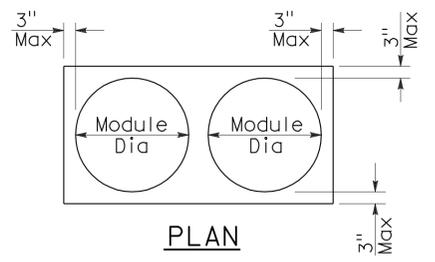
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more



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

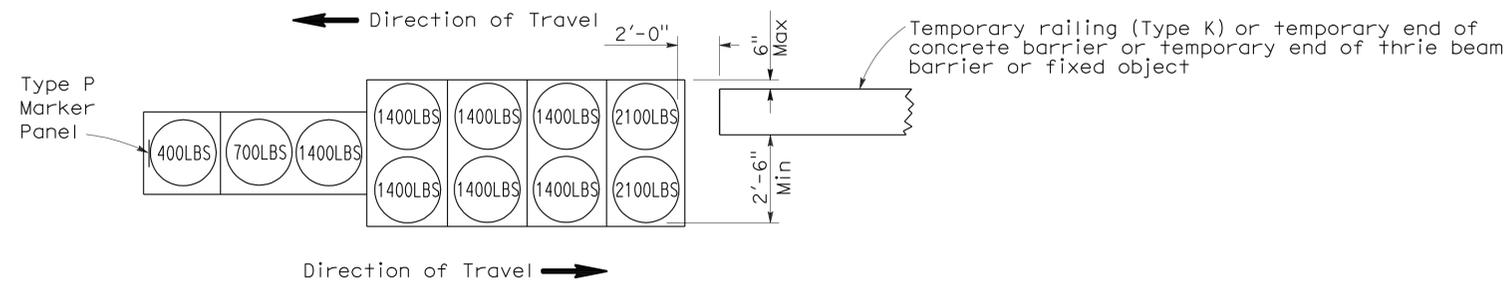
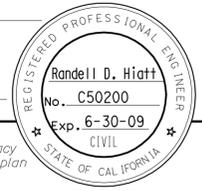
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	142.2/171.5	9	18

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

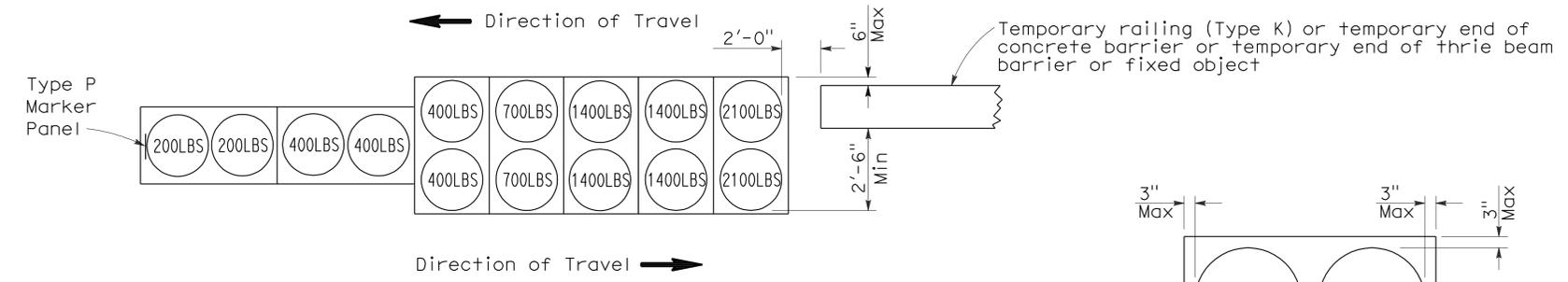
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To accompany plans dated 2-14-11



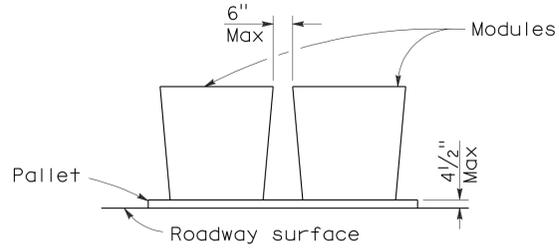
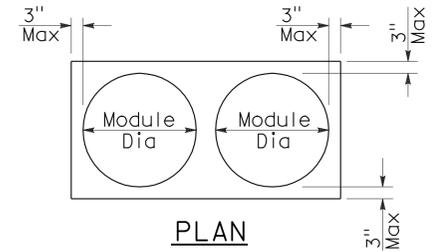
ARRAY 'TB11'

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

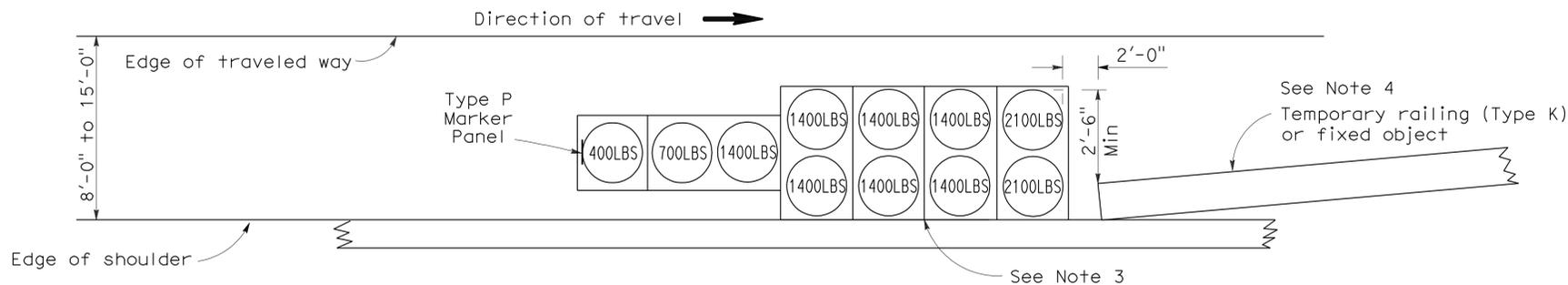
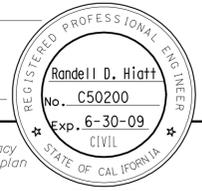
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	142.2/171.5	10	18

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

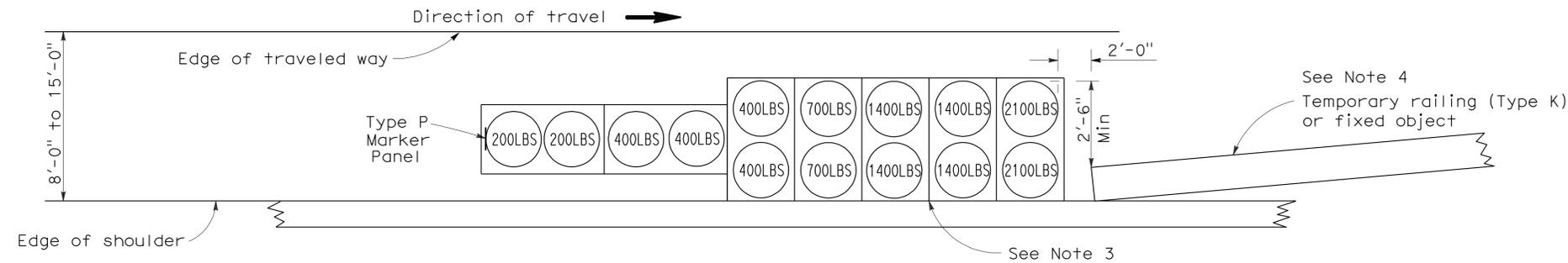
June 6, 2008
PLANS APPROVAL DATE

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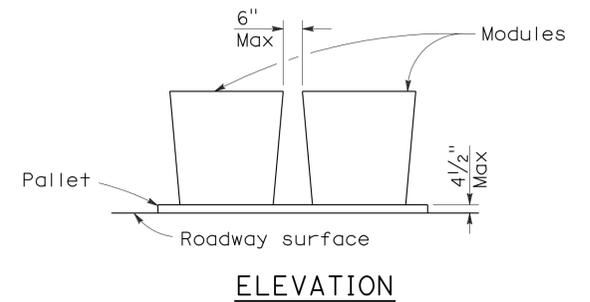
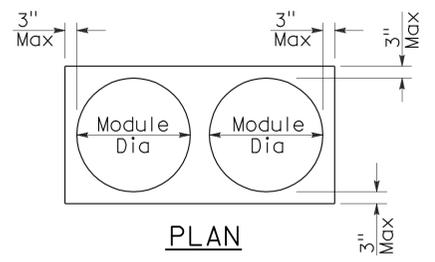
To accompany plans dated 2-14-11



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

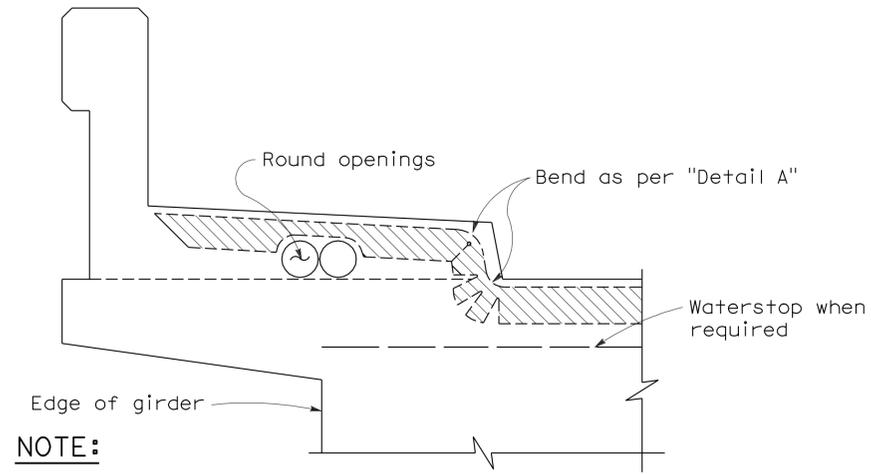
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

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

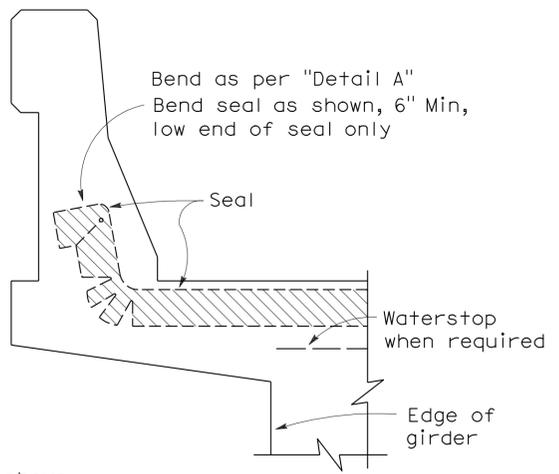
2006 REVISED STANDARD PLAN RSP T2

To accompany plans dated 2-14-11

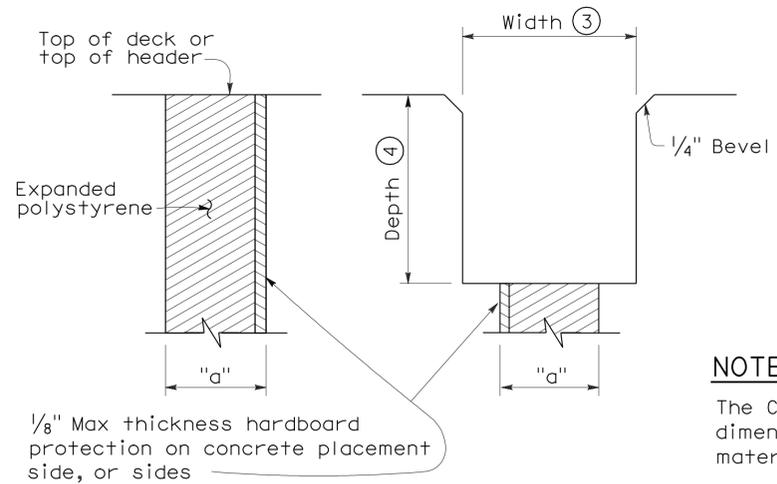


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



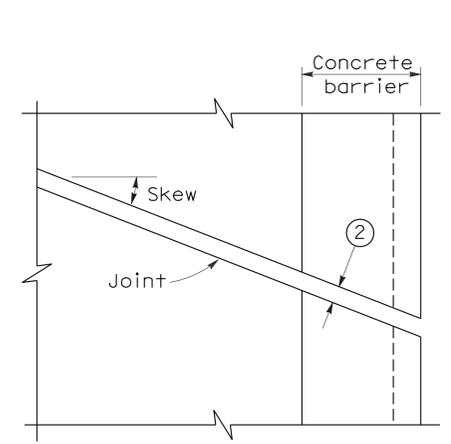
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

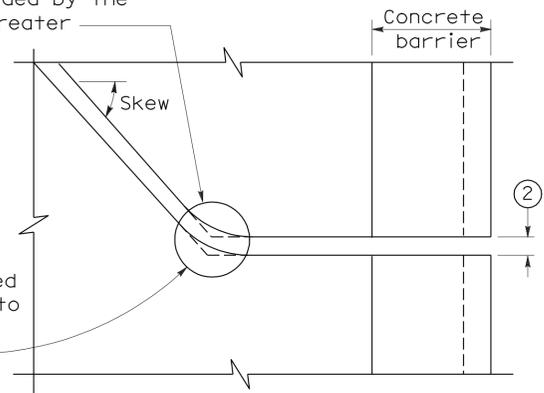
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



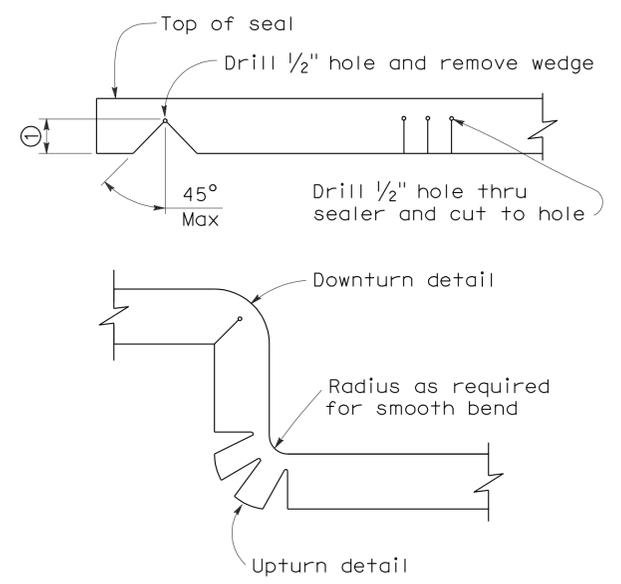
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ 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.



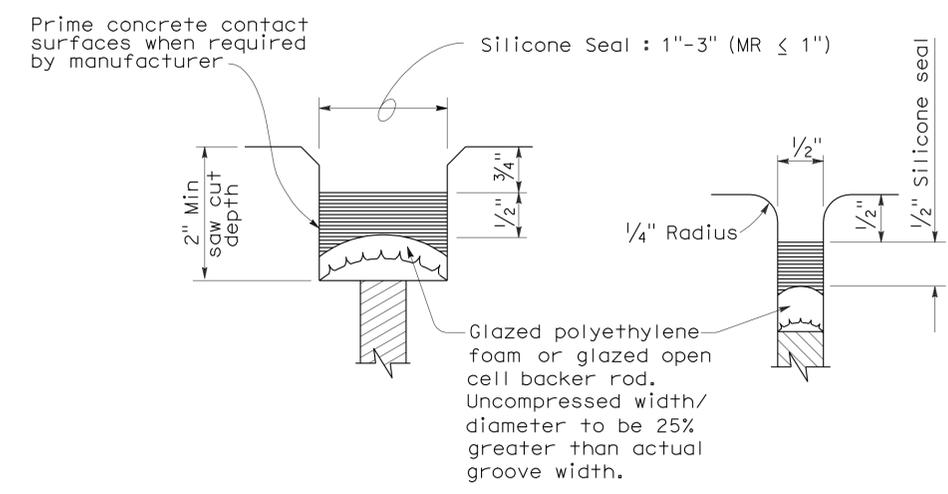
DETAIL A

- 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 (W₂) 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

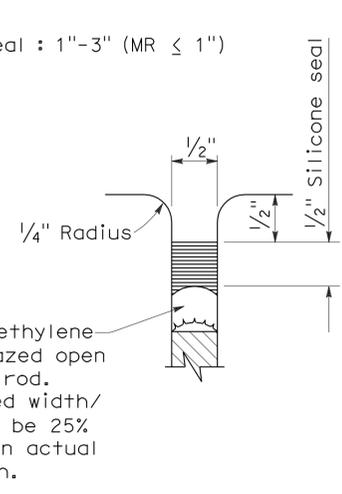
Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except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



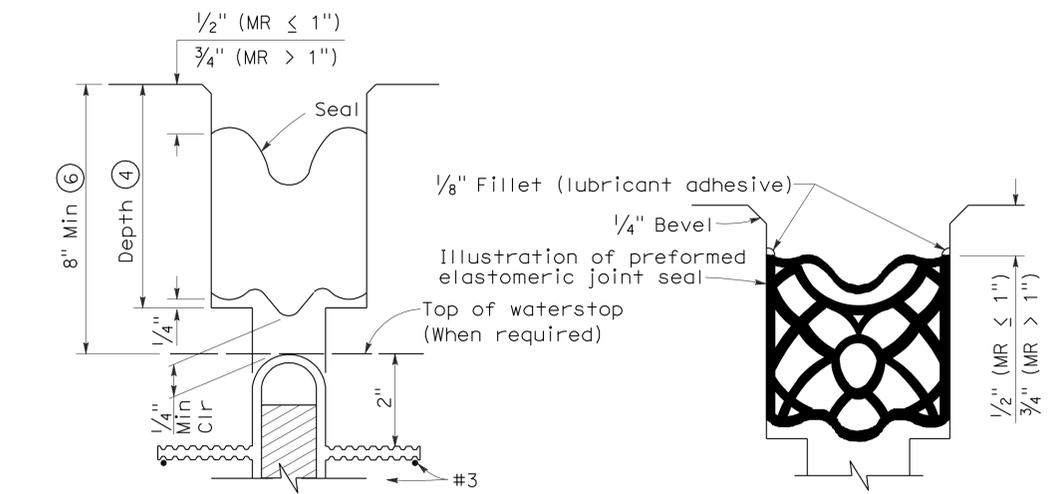
TYPE A SEAL

Movement rating : Silicone = 1" Max



TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

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	142.2/171.5	12	18

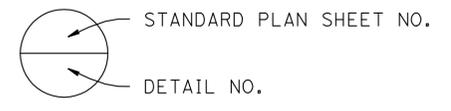
Edward Li 06/21/10
REGISTERED CIVIL ENGINEER DATE
2-14-11
PLANS APPROVAL DATE
No. C56706
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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	MISCELLANEOUS DETAILS NO. 1
7	MISCELLANEOUS DETAILS NO. 2

STANDARD PLANS DATED MAY 2006

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



LEGEND:

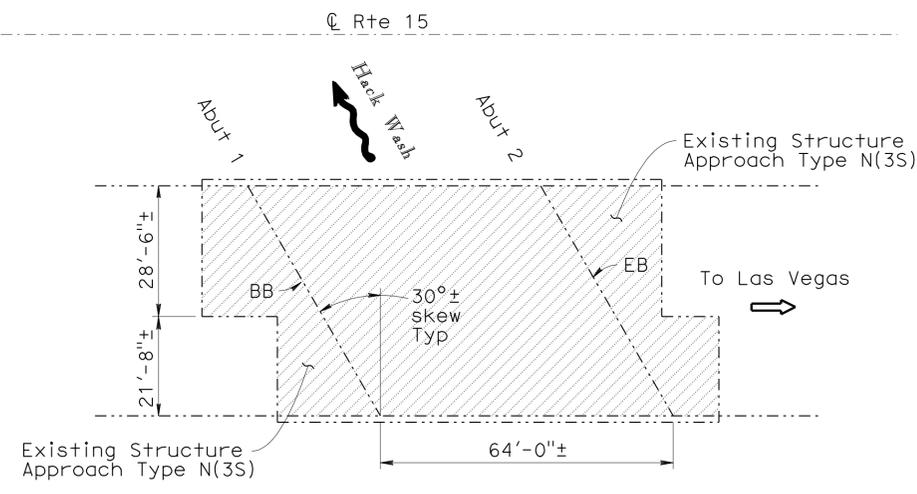
- Indicates existing.
- ⇒ Indicates direction of traffic.
- /— Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint spalls.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

HACK WASH QUANTITIES BRIDGE No. 54-1268R

REMOVE UNSOUND CONCRETE	12	CF
CLEAN BRIDGE DECK	4,941	SQFT
RAPID SETTING CONCRETE (PATCH)	12	CF
TREAT BRIDGE DECK	4,941	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	62	GAL

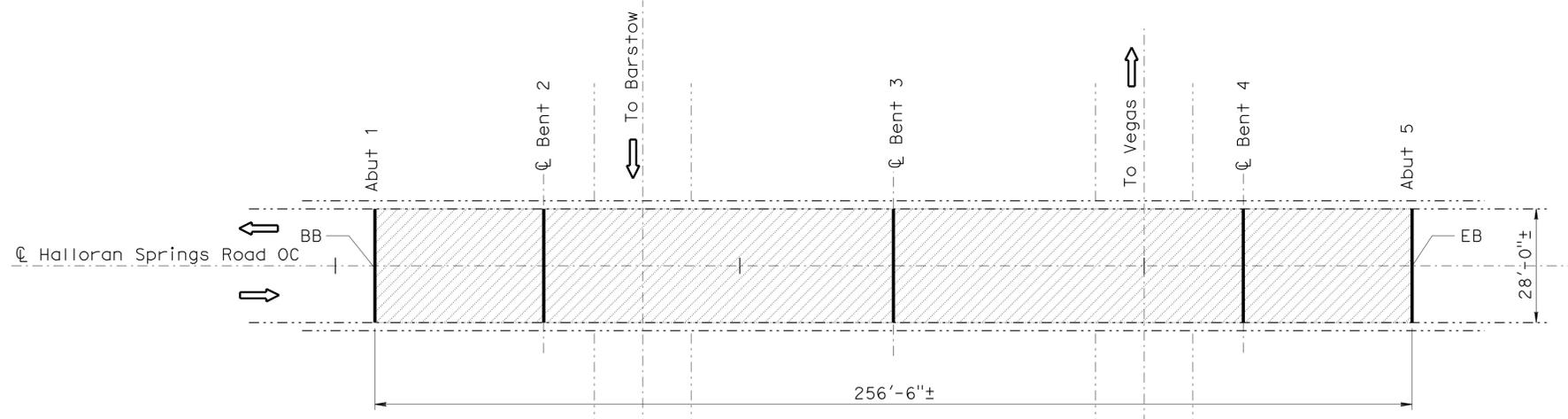
HALLORAN SPRINGS ROAD OC QUANTITIES BRIDGE No. 54-0338

REMOVE UNSOUND CONCRETE	24	CF
CLEAN BRIDGE DECK	7,182	SQFT
CLEAN EXPANSION JOINT	140	LF
RAPID SETTING CONCRETE (PATCH)	24	CF
JOINT SEAL (MR1/2")	140	LF
TREAT BRIDGE DECK	7,182	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	90	GAL



HACK WASH

Br No. 54-1268R, Rte 15, PM 142.26
NO SCALE



HALLORAN SPRINGS ROAD OC

Br No. 54-0338, Rte 15, PM 149.6
1" = 20'



NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	Various
		POST MILE

ROUTE 15 BRIDGES	
GENERAL PLAN NO. 1	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	142.2/171.5	13	18
		Edward Li 06/21/10		REGISTERED CIVIL ENGINEER DATE	
		2-14-11		PLANS APPROVAL DATE	
		No. C56706		Exp. 06/30/11	
		CIVIL		STATE OF CALIFORNIA	

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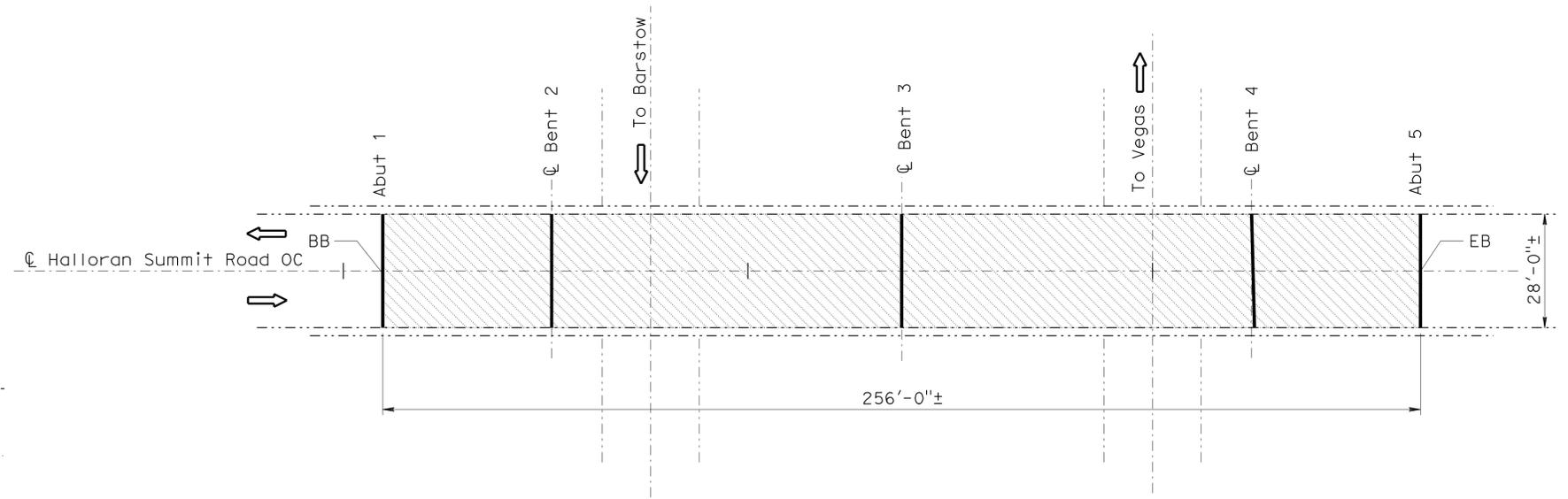
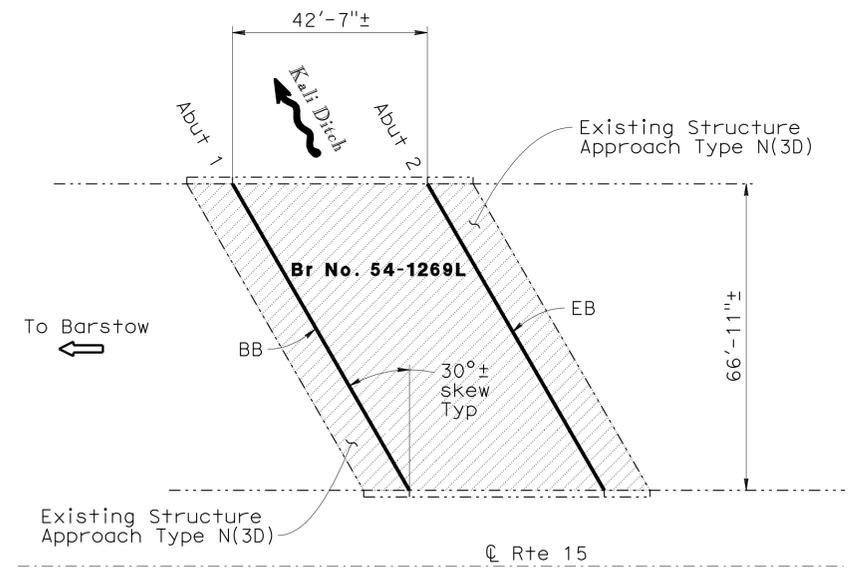
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- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place 3/4" thick polyester concrete overlay. Prior to placing polyester overlay, remove unsound concrete and patch with rapid setting concrete.

KALI DITCH BRIDGE No. 54-1269L

QUANTITIES		
REMOVE UNSOUND CONCRETE	13	CF
CLEAN BRIDGE DECK	4,194	SQFT
CLEAN EXPANSION JOINT	155	LF
RAPID SETTING CONCRETE (PATCH)	13	CF
JOINT SEAL (MR ₂)	155	LF
TREAT BRIDGE DECK	4,194	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	53	GAL

HALLORAN SUMMIT ROAD OC BRIDGE No. 54-0347

QUANTITIES		
REMOVE UNSOUND CONCRETE	24	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,168	SQFT
CLEAN EXPANSION JOINT	140	LF
RAPID SETTING CONCRETE (PATCH)	24	CF
FURNISH POLYESTER CONCRETE OVERLAY	448	CF
PLACE POLYESTER CONCRETE OVERLAY	7,168	SQFT
JOINT SEAL (MR ₂)	140	LF



KALI DITCH

Br No. 54-1269L, Rte 15, PM 154.67
NO SCALE



HALLORAN SUMMIT ROAD OC

Br No. 54-0347, Rte 15, PM 155.57
1" = 20'



NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 15 BRIDGES GENERAL PLAN NO. 2	
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang			CHECKED Edward Li	POST MILE		Varies
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Kevin Ellingson			PLANS AND SPECS COMPARED Kevin Ellingson			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA OP1301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	6-21-10	SHEET 02 OF 07

USERNAME => hrmikes DATE PLOTTED => 17-FEB-2011 TIME PLOTTED => 09:38

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	142.2/171.5	14	18

Edward Li 06/21/10
REGISTERED CIVIL ENGINEER DATE

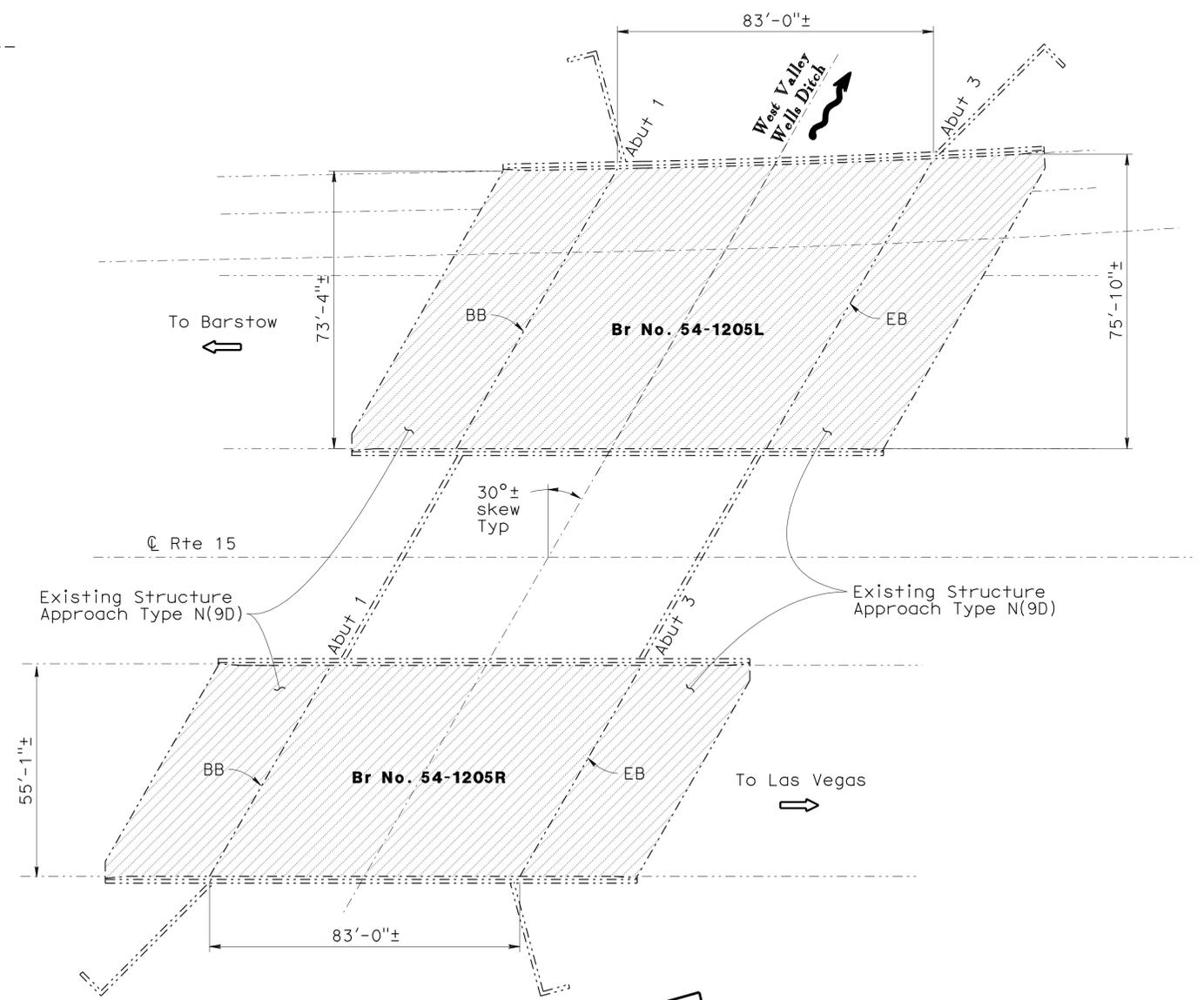
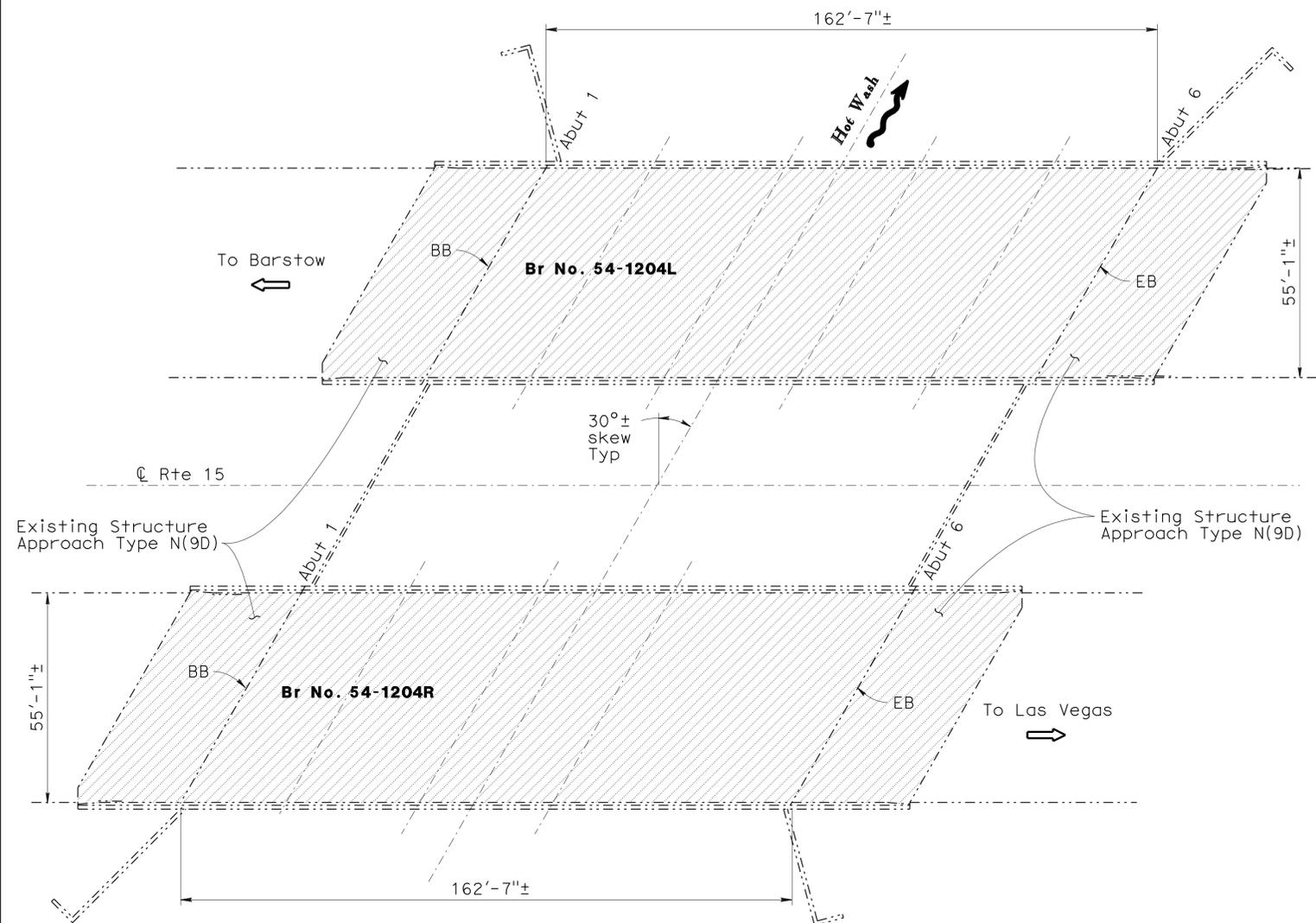
2-14-11
PLANS APPROVAL DATE

No. C56706
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA

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HOT WASH

Br No. 54-1204L/R, Rte 15, PM 160.67
NO SCALE

HOT WASH	QUANTITIES	BRIDGE No. 54-1204L/R
REMOVE UNSOUND CONCRETE		62 CF
CLEAN BRIDGE DECK	24,486	SQFT
RAPID SETTING CONCRETE (PATCH)	62	CF
TREAT BRIDGE DECK	24,486	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	306	GAL

WEST VALLEY WELLS DITCH	QUANTITIES	BRIDGE No. 54-1205L/R
REMOVE UNSOUND CONCRETE		46 CF
CLEAN BRIDGE DECK	18,392	SQFT
RAPID SETTING CONCRETE (PATCH)	46	CF
TREAT BRIDGE DECK	18,392	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	230	GAL

NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	BY Tom Dang	LIVE LOADING: AND PERMIT DESIGN LOAD	HS20-44 AND ALTERNATIVE
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang		CHECKED Edward Li
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Kevin Ellingson		PLANS AND SPECS COMPARED Kevin Ellingson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

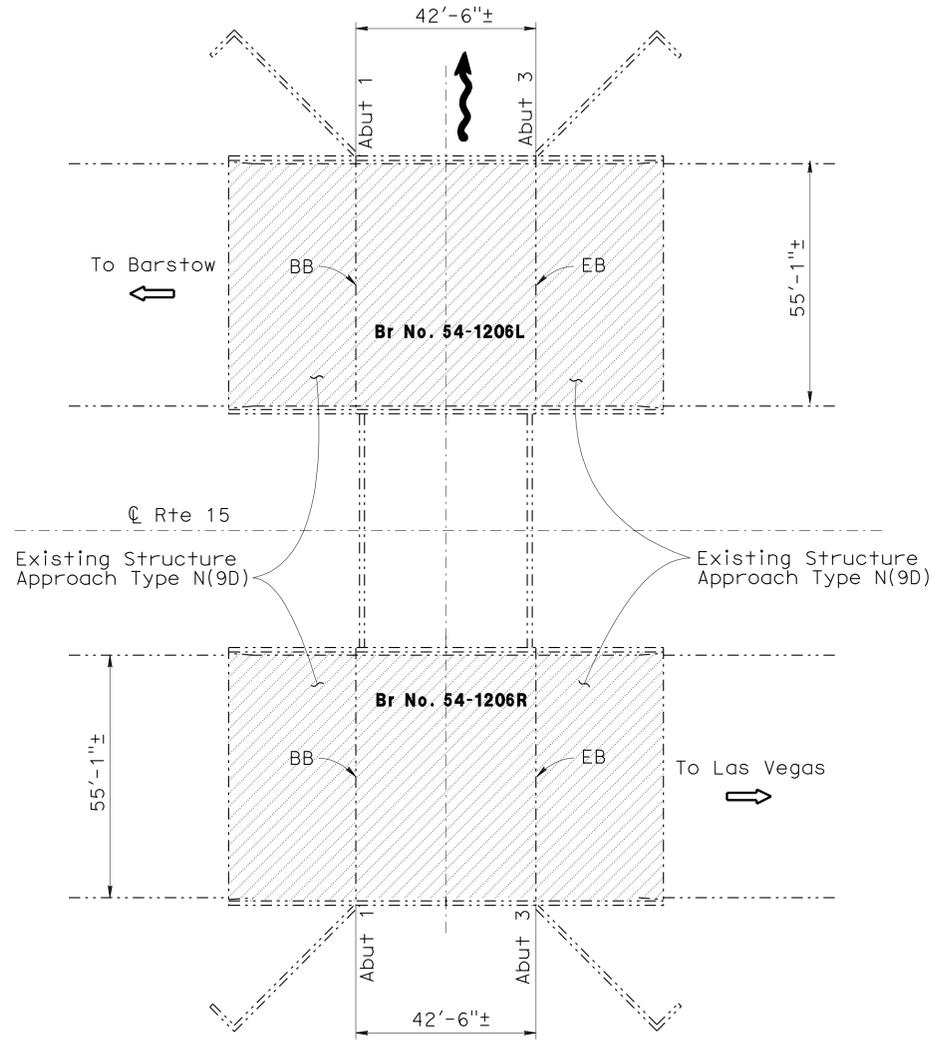
BRIDGE NO. Various
POST MILE Varies

ROUTE 15 BRIDGES
GENERAL PLAN NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	142.2/171.5	15	18
		Edward Li 06/21/10		REGISTERED CIVIL ENGINEER DATE	
		2-14-11		PLANS APPROVAL DATE	
				No. C56706	
				Exp. 06/30/11	
				CIVIL	
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.					

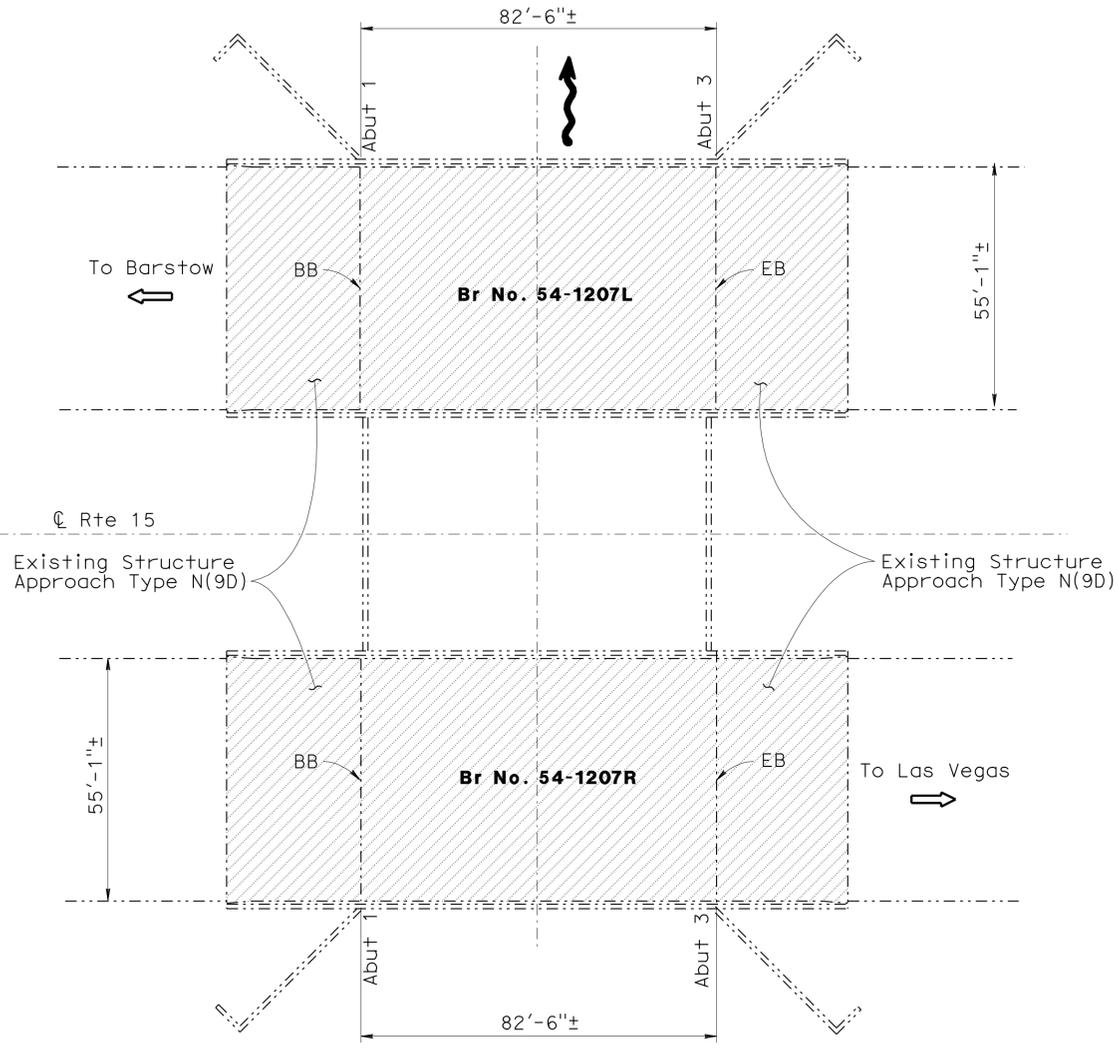
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VALLEY WELLS DITCH

Br No. 54-1206L/R, Rte 15, PM 161.5
NO SCALE



WINDMILL STATION DITCH

Br No. 54-1207L/R, Rte 15, PM 162.19
NO SCALE



NOTE:
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VALLEY WELLS DITCH		BRIDGE NO 54-1206L/R	
	QUANTITIES		
REMOVE UNSOUND CONCRETE	28	CF	
CLEAN BRIDGE DECK	11,276	SQFT	
RAPID SETTING CONCRETE (PATCH)	28	CF	
TREAT BRIDGE DECK	11,276	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	142	GAL	

WINDMILL STATION DITCH		BRIDGE NO 54-1207L/R	
	QUANTITIES		
REMOVE UNSOUND CONCRETE	40	CF	
CLEAN BRIDGE DECK	15,676	SQFT	
RAPID SETTING CONCRETE (PATCH)	40	CF	
TREAT BRIDGE DECK	15,676	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	196	GAL	

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	BY Tom Dang	CHECKED Edward Li
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang	CHECKED Edward Li
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Kevin Ellingson	PLANS AND SPECS COMPARED Kevin Ellingson

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	Various
	POST MILE	Varies
	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	

ROUTE 15 BRIDGES	
GENERAL PLAN NO. 4	
REVISION DATES	SHEET 04 OF 07

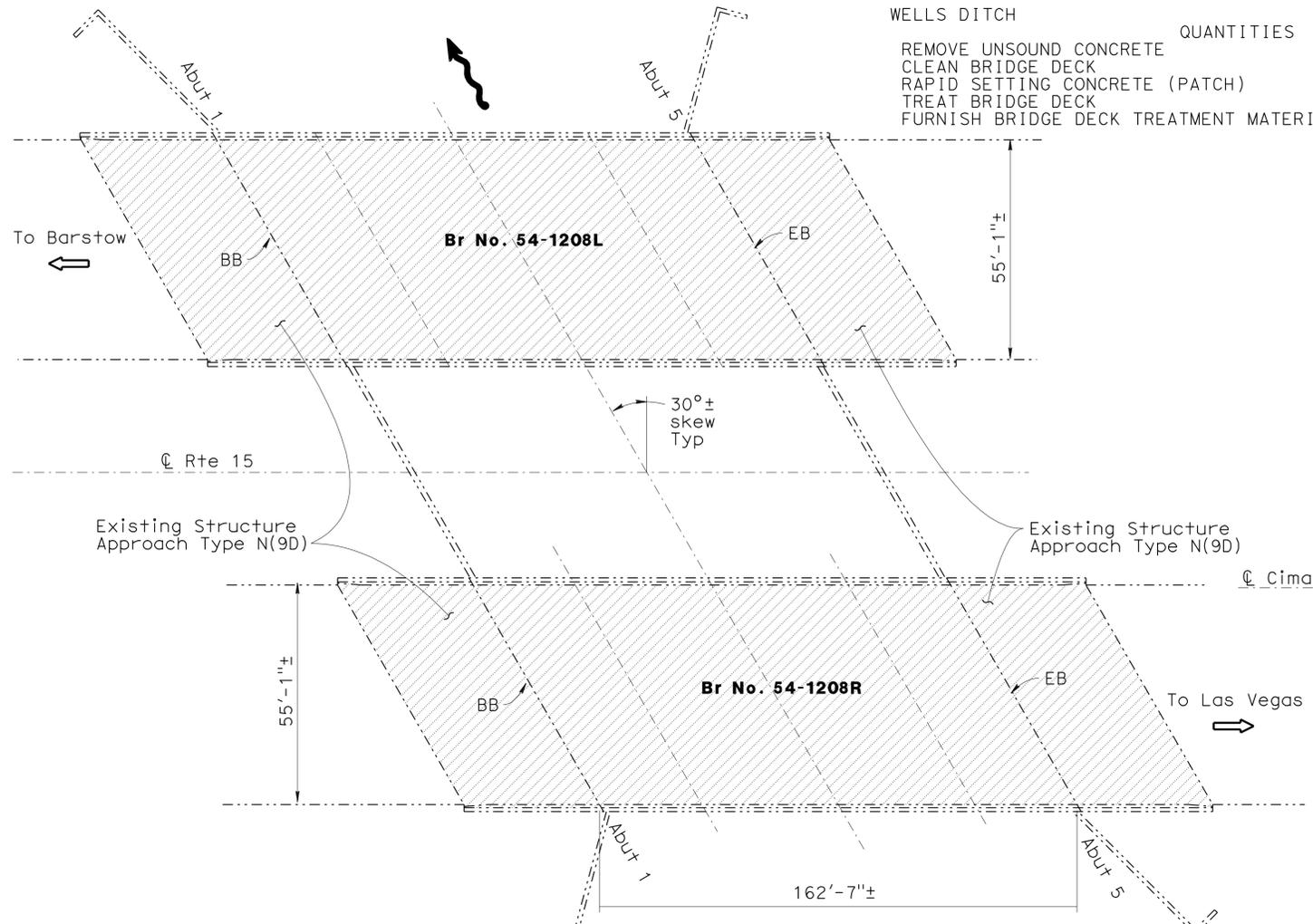
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	142.2/171.5	16	18

Edward Li 06/21/10
REGISTERED CIVIL ENGINEER DATE
PLANS APPROVAL DATE 2-14-11

REGISTERED PROFESSIONAL ENGINEER
EDWARD GUOJUN LI
No. C56706
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA

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WELLS DITCH
Br No. 54-1208L/R, Rte 15, PM 162.47
NO SCALE

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 - ▨ Indicates limits of clean and treat existing 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 polyester concrete overlay. Prior to placing polyester overlay, remove unsound concrete and patch with rapid setting concrete.
 - ▧ Indicates limits of AC overlay removal.

NOTE:
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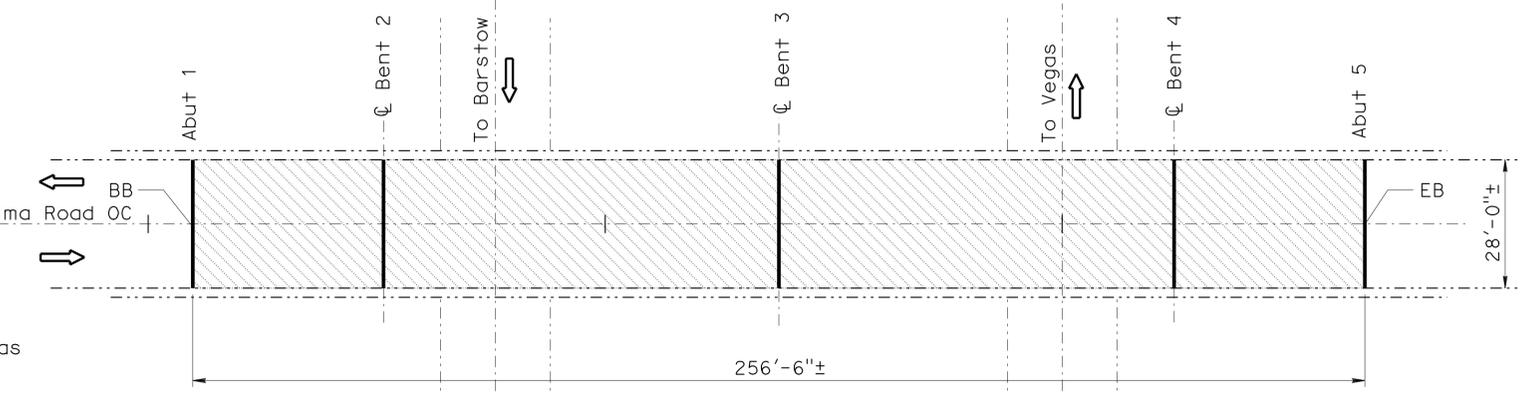
DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Kevin Ellingson

BRIDGE No. 54-1208L/R

REMOVE UNSOUND CONCRETE	62	CF
CLEAN BRIDGE DECK	24,486	SQFT
RAPID SETTING CONCRETE (PATCH)	62	CF
TREAT BRIDGE DECK	24,486	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	306	GAL

CIMA ROAD OC BRIDGE No. 54-0363

REMOVE UNSOUND CONCRETE	24	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,182	SQFT
CLEAN EXPANSION JOINT	140	LF
RAPID SETTING CONCRETE (PATCH)	24	CF
FURNISH POLYESTER CONCRETE OVERLAY	449	CF
PLACE POLYESTER CONCRETE OVERLAY	7,182	SQFT
JOINT SEAL (MR 1/2")	140	LF

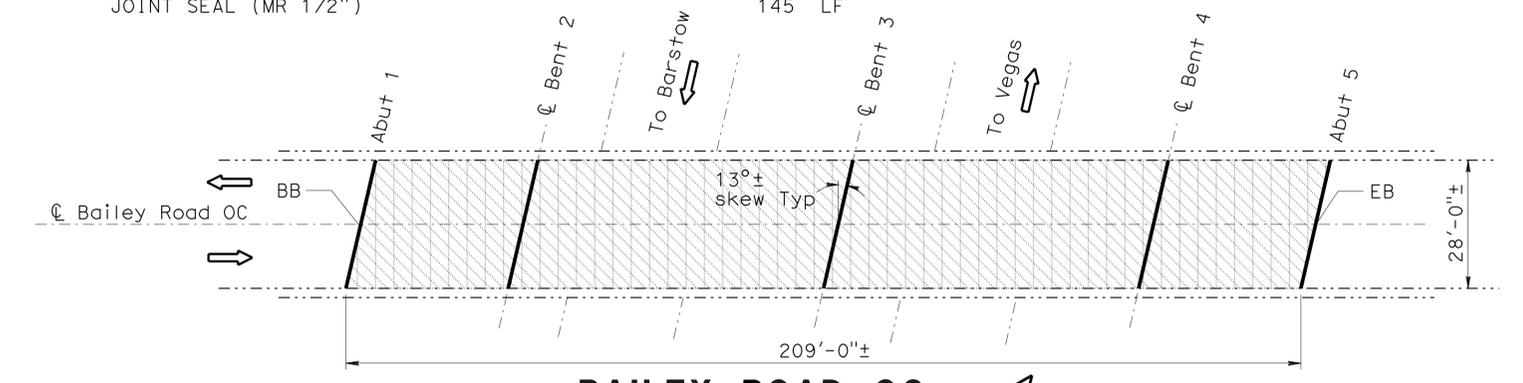


CIMA ROAD OC
Br No. 54-0363, Rte 15, PM 162.73
1" = 20'

Notes: Place 3/4" polyester concrete overlay.

BAILEY ROAD OC BRIDGE NO 54-0613

REMOVE ASPHALT CONCRETE SURFACING	5,852	SQFT
REMOVE UNSOUND CONCRETE	20	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,852	SQFT
CLEAN EXPANSION JOINT	145	LF
RAPID SETTING CONCRETE (PATCH)	20	CF
FURNISH POLYESTER CONCRETE OVERLAY	732	CF
PLACE POLYESTER CONCRETE OVERLAY	5,852	SQFT
JOINT SEAL (MR 1/2")	145	LF



BAILEY ROAD OC
Br No. 54-0613, Rte 15, PM 171.47
1" = 20'

Notes: Place 1/2" polyester concrete overlay.

STATE OF CALIFORNIA	DIVISION OF MAINTENANCE	BRIDGE NO. Various	ROUTE 15 BRIDGES
DEPARTMENT OF TRANSPORTATION	STRUCTURE MAINTENANCE DESIGN	POST MILE Varies	

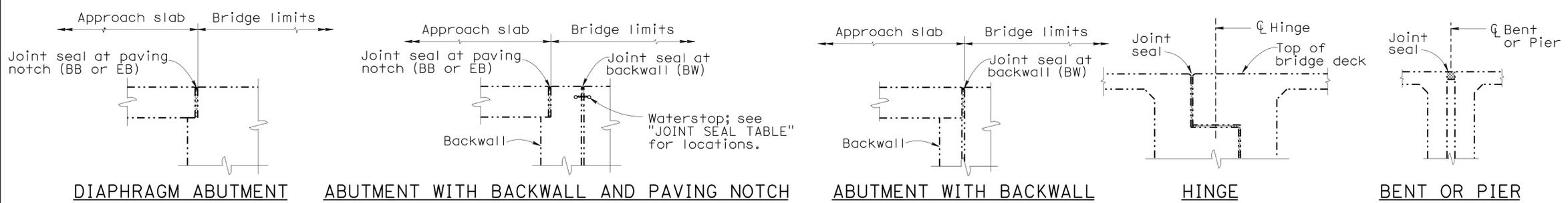
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	142.2/171.5	17	18

Edward Li 06/21/10
REGISTERED CIVIL ENGINEER DATE

2-14-11
PLANS APPROVAL DATE

No. C56706
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA

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JOINT SEAL LOCATION

NO SCALE

JOINT SEAL TABLE

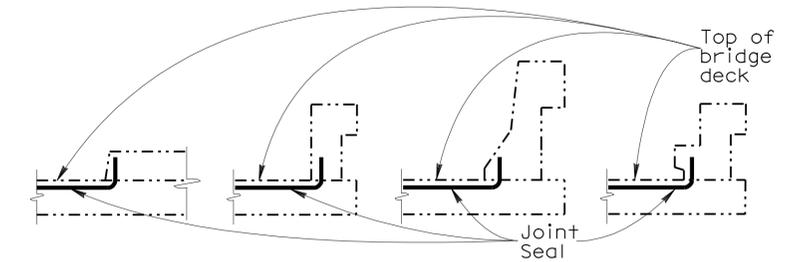
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROX LENGTH (FT)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX DEPTH OF JOINT SPALLS (INCHES)	APPROX WIDTH OF JOINT SPALLS (INCHES)	APPROX LENGTH OF JOINT SPALLS (FEET)
HALLORAN SPRINGS ROAD OC	54-0338	Abut 1 BW	1/2	28	NO	12	5	6	5
		Bent 2 DJ	1/2	28	NO	12	5	6	5
		Bent 3 DJ	1/2	28	NO	12	5	6	5
		Bent 4 DJ	1/2	28	NO	12	5	6	5
		Abut 5 BW	1/2	28	NO	12	5	6	5
KALI DITCH	54-1269L	Abut 1 PN	1/2	77.4	NO	12	3	6	5
		Abut 2 PN	1/2	77.4	NO	12	3	6	5
HALLORAN SUMMIT ROAD OC	54-0347	Abut 1 BW	1/2	28	NO	12	5	6	5
		Bent 2 DJ	1/2	28	NO	12	5	6	5
		Bent 3 DJ	1/2	28	NO	12	5	6	5
		Bent 4 DJ	1/2	28	NO	12	5	6	5
		Abut 5 BW	1/2	28	NO	12	5	6	5
CIMA ROAD OC	54-0363	Abut 1 BW	1/2	28	NO	12	5	6	5
		Bent 2 DJ	1/2	28	NO	12	5	6	5
		Bent 3 DJ	1/2	28	NO	12	5	6	5
		Bent 4 DJ	1/2	28	NO	12	5	6	5
		Abut 5 BW	1/2	28	NO	12	5	6	5
BAILEY ROAD OC	54-0613	Abut 1 BW	1/2	29	YES	6	5	6	5
		Bent 2 DJ	1/2	29	YES	6	5	6	5
		Bent 3 DJ	1/2	29	YES	6	5	6	5
		Bent 4 DJ	1/2	29	YES	6	5	6	5
		Abut 5 BW	1/2	29	YES	6	5	6	5

PN = Paving notch
BW = Backwall
DJ = Deck Joint

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

NOTES:

- The following notes apply to JOINT SEAL TYPE A:
- Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.
 - For details not shown see RSP B6-21 sheet.
- 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 recalculated by the Engineer.
 - W1 shall be the smaller of the values determined as follows:
 - A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.
 - Bend Type B joint seal 6 inches 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 RSP B6-21 sheet.



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

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

DESIGN	BY	Edward Li	CHECKED	HongTien Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 15 BRIDGES				
	DETAILS	BY	Tom Dang	CHECKED			Edward Li		POST MILE	MISCELLANEOUS DETAILS NO. 1			
	QUANTITIES	BY	Edward Li	CHECKED			HongTien Tran		VARIES				

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 08
EA OP1301

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES

SHEET 06 OF 07

FILE => 08-Op1301-b-misc01.dgn

DECK REPAIR TABLE

REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCHES)
HACK WASH	54-1268R	1	3
HALLORAN SPRINGS ROAD OC	54-0338	1	3
KALI DITCH	54-1269L	1	3
HALLORAN SUMMIT ROAD OC	54-0347	1	3
HOT WASH (LEFT)	54-1204L	1	3
HOT WASH (RIGHT)	54-1204R	1	3
WEST VALLEY WELLS DITCH (LEFT)	54-1205L	1	3
WEST VALLEY WELLS DITCH (RIGHT)	54-1205R	1	3
VALLEY WELLS DITCH (LEFT)	54-1206L	1	3
VALLEY WELLS DITCH (RIGHT)	54-1206R	1	3
WINDMILL STATION DITCH (LEFT)	54-1207L	1	3
WINDMILL STATION DITCH (RIGHT)	54-1207R	1	3
WELLS DITCH (LEFT)	54-1208L	1	3
WELLS DITCH (RIGHT)	54-1208R	1	3
CIMA ROAD OC	54-0363	1	3
BAILEY ROAD OC	54-0613	1	3

DECK REPAIR NOTES:

1. Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
2. It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
3. When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
4. The saw cut depth shall not exceed $\frac{3}{4}$ inch or the concrete cover over the top steel reinforcing bars, whichever is less.
5. Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.

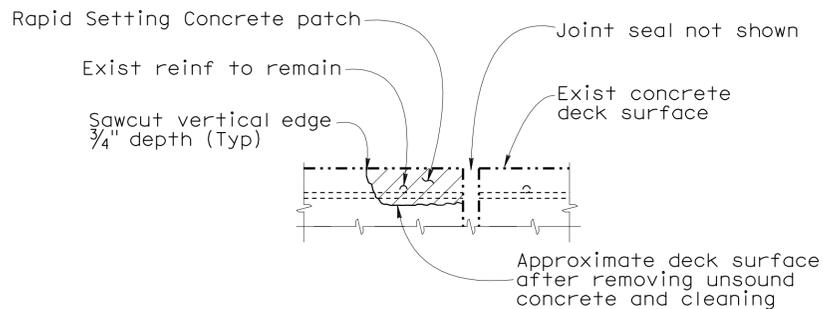
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	15	142.2/171.5	18	18

Edward Li 06/21/10
 REGISTERED CIVIL ENGINEER DATE

2-14-11
 PLANS APPROVAL DATE

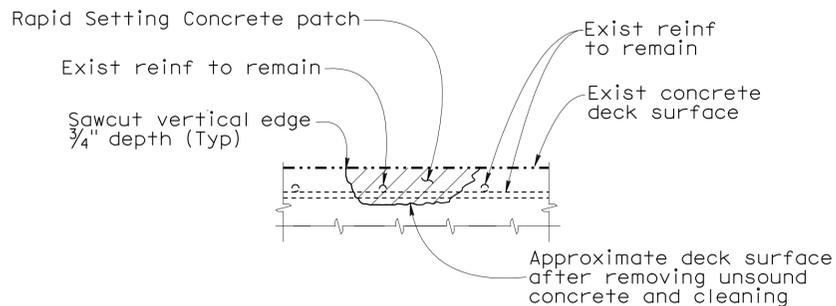
No. C56706
 Exp. 06/30/11
 CIVIL
 STATE OF CALIFORNIA

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



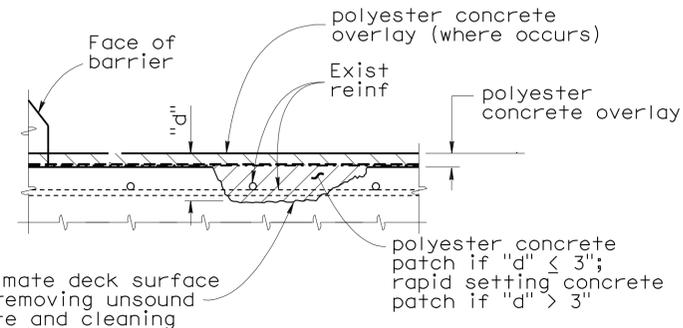
JOINT SPALL REPAIR DETAIL

Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



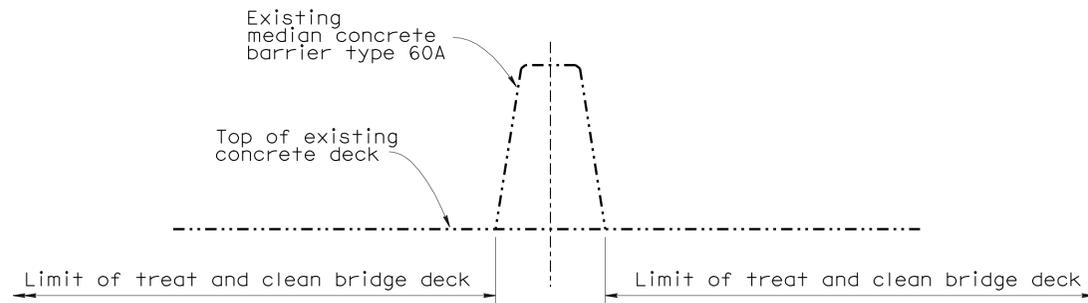
DECK DAMAGE REPAIR DETAIL

Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

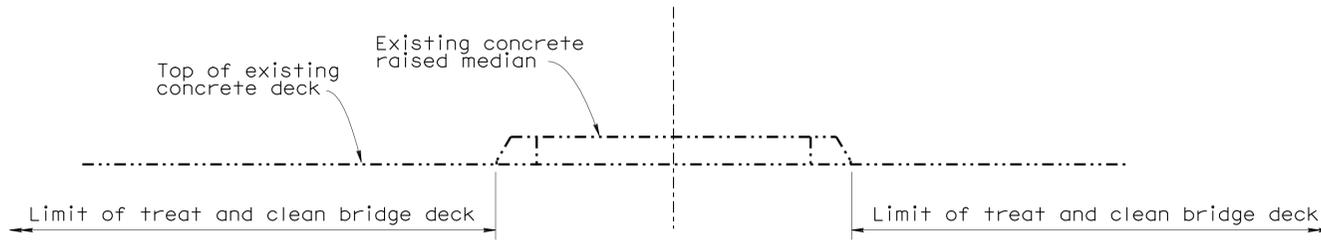


DECK OVERLAY DETAIL

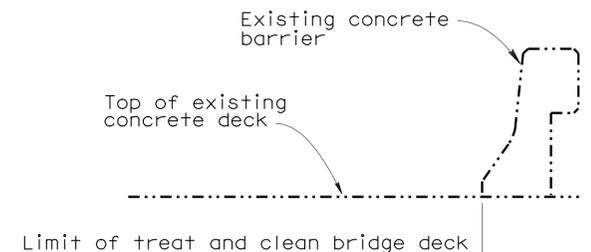
Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



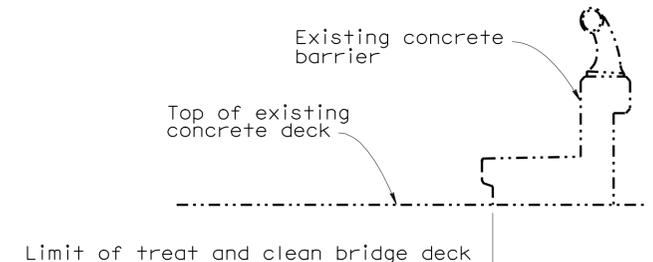
MEDIAN BARRIER



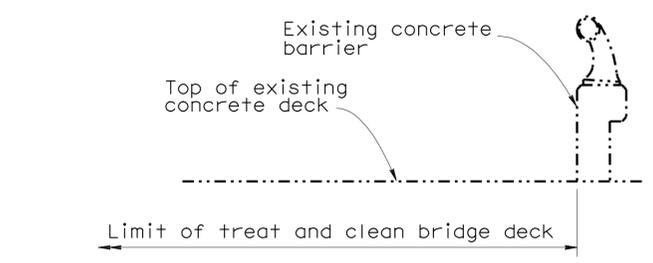
RAISED MEDIAN



EOD BARRIER



SIDEWALK BARRIER TYPE 2



SIDEWALK BARRIER TYPE 1

TYPICAL LIMITS OF DECK WORK

NO SCALE

DESIGN	BY Edward Li	CHECKED HongTien Tran
DETAILS	BY Tom Dang	CHECKED Edward Li
QUANTITIES	BY Edward Li	CHECKED HongTien Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTE 15 BRIDGES
MISCELLANEOUS DETAILS NO. 2

