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STRUCTURE PLANS

11-12	WILLOW SPRINGS WASH BRIDGE Br No. 54-0853L
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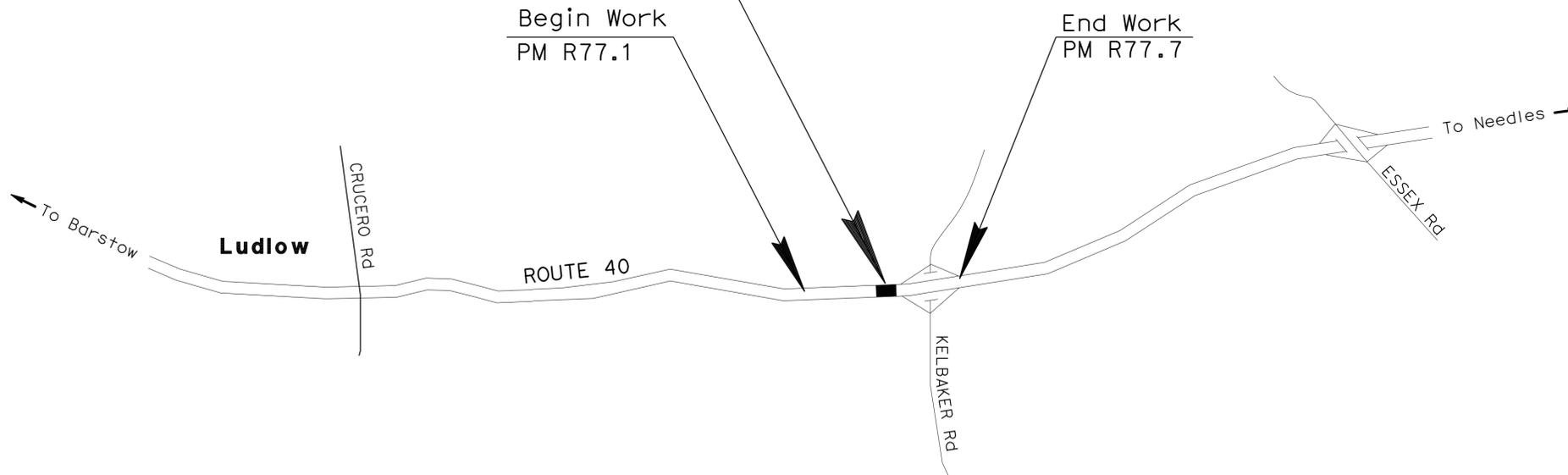
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY**
IN SAN BERNARDINO COUNTY
NEAR LUDLOW
AT WILLOW SPRINGS WASH BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



**LOCATION OF CONSTRUCTION
WILLOW SPRINGS WASH BRIDGE
Br No. 54-0853L PM R77.4**



NO SCALE

PROJECT MANAGER CATALINO PINING III
DESIGN ENGINEER HAO VAN HO

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

Van Hao 11-17-08
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

January 5, 2009

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. **08-0E4304**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R77.4	2	12

<i>Vanitas</i>	12-29-08
REGISTERED CIVIL ENGINEER	DATE
1-5-09	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	HAO VAN HO
No. 64720	
Exp. 6-30-09	
CIVIL	

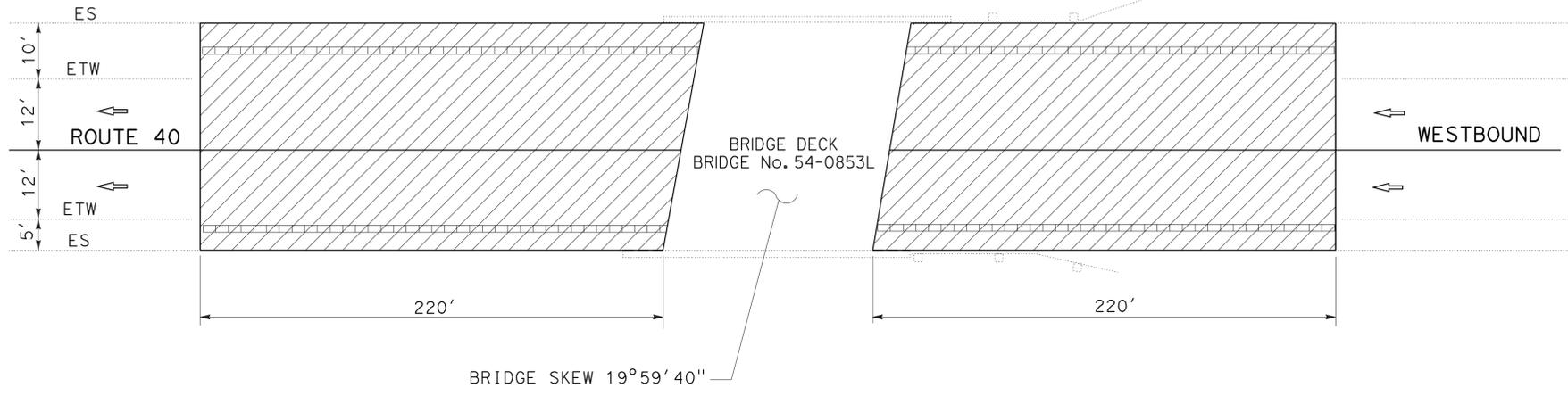
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

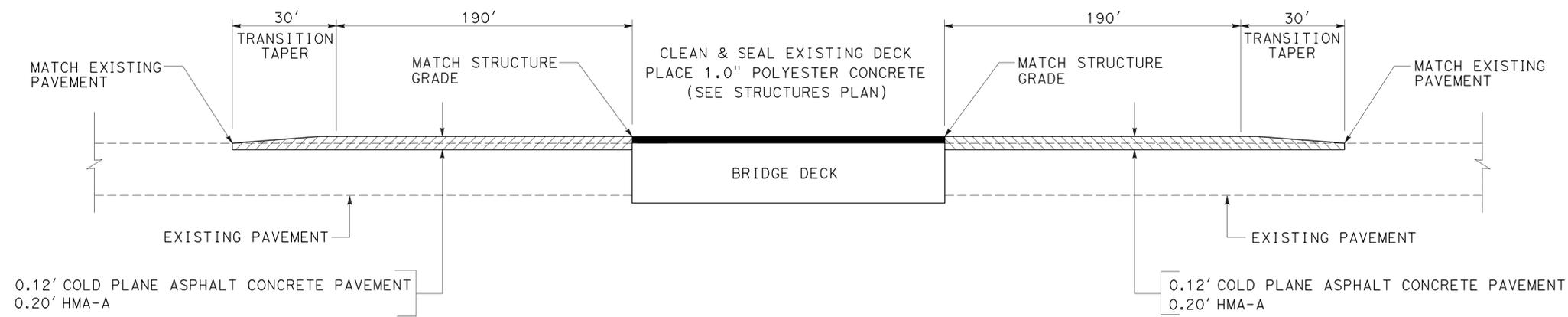
- HMA-A HOT MIX ASPHALT (TYPE A)
- 0.12' COLD PLANE ASPHALT CONCRETE PAVEMENT
0.20' HMA-A
- 1.0" POLYESTER CONCRETE
- SHOULDER RUMBLE STRIP (GROUND-IN)

NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO THE TOLERANCE SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. TEMPORARY SILT FENCE SHALL BE CONSTRUCTED IN THE MEDIAN ADJACENT TO THE APPROACH AND DEPARTURE SLABS FOR THE WILLOW SPRINGS WASH BRIDGE (BRIDGE No. 54-0853L) PER STANDARD PLAN T51.



PLAN
STRUCTURE APPROACHES



STRUCTURE APPROACHES FOR WILLOW SPRINGS WASH BRIDGE (Br No. 54-0853L)

CONSTRUCTION DETAILS
NO SCALE
C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: KUANG H. CHEN
 CALCULATED/DESIGNED BY: PHILLIP PHAN
 CHECKED BY: MARC TALAVERA
 REVISIONS: PHILLIP PHAN, MARC TALAVERA
 BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE 1" = 30' IN INCHES

USERNAME => frrmikesl
DGN FILE => 80e430ga001.dgn

CU 08608 EA 0E4301

LAST REVISION: DATE PLOTTED => 08-JAN-2009
 12-29-08 TIME PLOTTED => 06:17

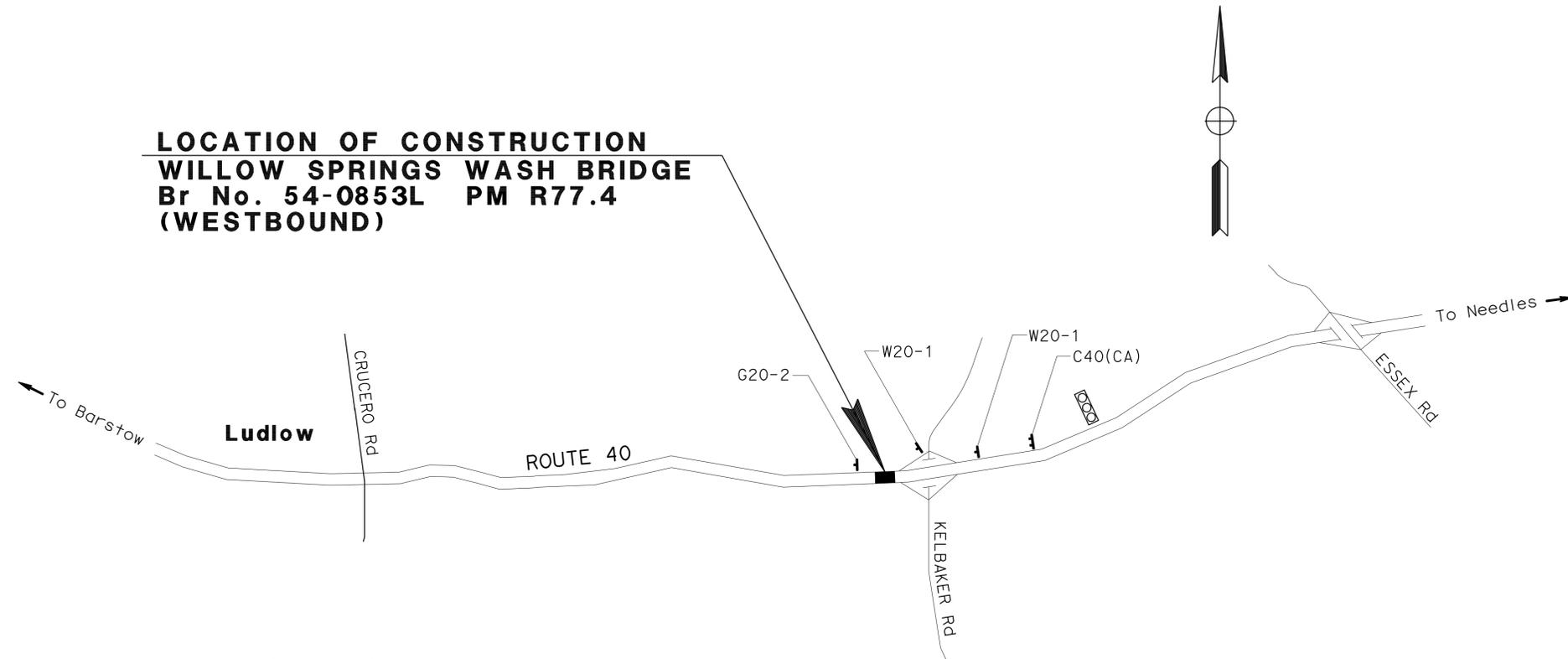
LEGEND:

- ↓ CONSTRUCTION AREA SIGN (1 POST)
- ↓ CONSTRUCTION AREA SIGN (2 POSTS)
- ▬ CONSTRUCTION AREA
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

NOTES:

1. LOCATIONS OF THE CONSTRUCTION AREA SIGNS ARE APPROXIMATE. THE EXACT LOCATIONS WILL BE DETERMINED BY THE FIELD ENGINEER.
2. USE TRAFFIC CONTROL SYSTEM T10 FOR LANE CLOSURE AND SHOULDER CLOSURE ON ROUTE 40.
3. LOCATION OF THE PCMS SIGN WILL BE DETERMINED BY THE ENGINEER.
4. MINIMUM SPACING BETWEEN TWO CONSECUTIVE SIGNS SHALL BE 500 FEET OR AS DETERMINED BY THE ENGINEER.

**LOCATION OF CONSTRUCTION
WILLOW SPRINGS WASH BRIDGE
Br No. 54-0853L PM R77.4
(WESTBOUND)**



**STATIONARY MOUNTED
CONSTRUCTION AREA SIGNS**

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

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

**PORTABLE CHANGEABLE
MESSAGE SIGN**

EA	
TOTAL	1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN A
 FUNCTIONAL SUPERVISOR: BILL WASSER
 CALCULATED/DESIGNED BY: PATTI BARTOLLI
 CHECKED BY: SHABBIR AHMED
 REVISED BY: DATE
 REVISIONS:

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

RELATIVE BORDER SCALE
IS IN INCHES



USERNAME => frrmikes1
DGN FILE => 80e4301a001.dgn

CU 08380

EA 0E4301

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

LAST REVISION: 11-17-08
 DATE PLOTTED => 08-JAN-2009
 TIME PLOTTED => 06:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R77.4	4	12

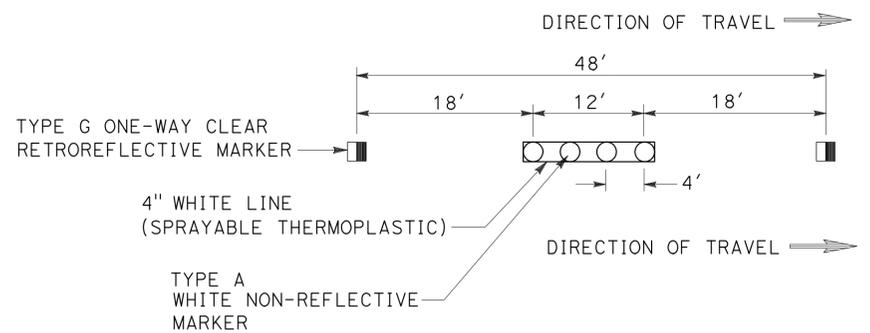
W E Wasser 11-17-08
 REGISTERED CIVIL ENGINEER DATE
 1-5-09
 PLANS APPROVAL DATE

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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN A
 FUNCTIONAL SUPERVISOR: BILL WASSER
 CALCULATED/DESIGNED BY: PATTI BARTOLLI
 CHECKED BY: SHABBIR AHMED
 REVISED BY: _____ DATE REVISED: _____

PAVEMENT DELINEATION QUANTITIES

SHEET NO.	STATION LIMITS	LOCATION	DETAIL No.	REMOVE PAVEMENT MARKER	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				
					NON-REFLECTIVE	RETROREFLECTIVE				4" YELLOW	4" WHITE	8" WHITE		
					TYPE	TYPE								
					A	C	D	G	H	EA	EA	EA	EA	EA
1	PM R77.35 to R77.46	L+	27B									716		
		L+	13M	80	64			16			716			
		L+	25	16					16		716			
SUBTOTAL				96	64			16	16	1432	716			
SHEET TOTAL				96	64			32			2148			



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**

LAST REVISION | DATE PLOTTED => 08-JAN-2009 | 11-17-08 | TIME PLOTTED => 06:17

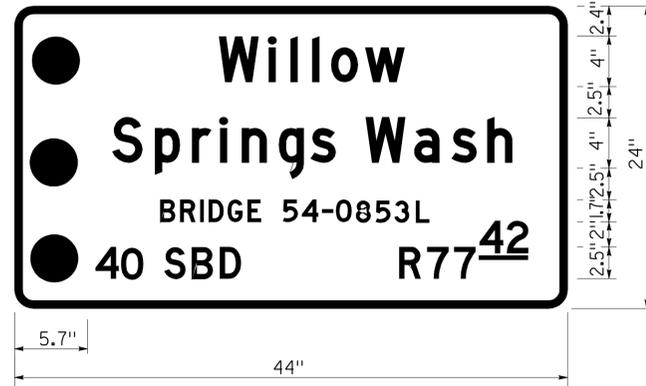
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08	SBd	40	R77.4	5	12
<i>W. E. Wasser</i> REGISTERED CIVIL ENGINEER DATE 11-17-08					
1-5-09			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

LEGEND:

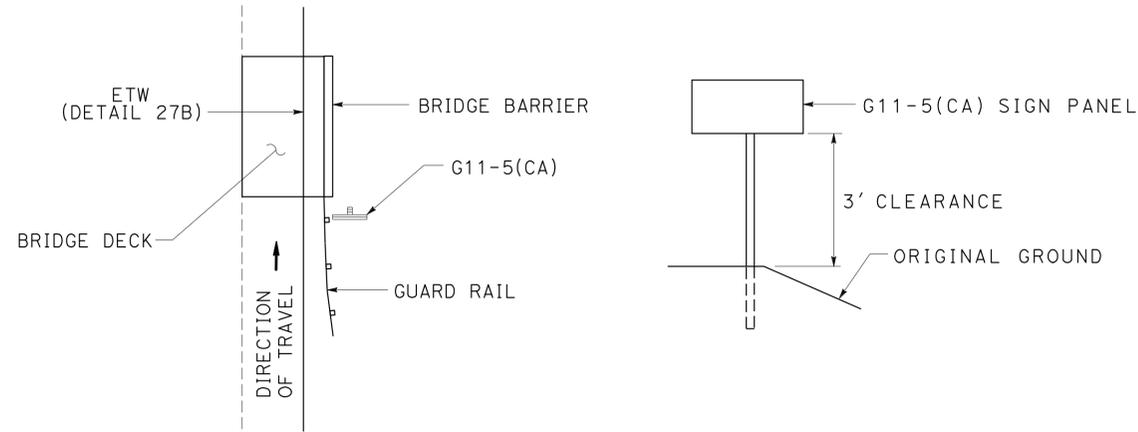
- X APPLICABLE
- FRP = FIBERGLASS REINFORCED PLASTIC
- L = LENGTH OF SIGN
- D = DEPTH OF SIGN
- RSPF = REMOVABLE SIGN PANEL FRAME

NOTE:

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



1.5" Radius, 0.6" Border, Black on White;
 [WILLOW] C; [SPRINGS WASH] C; [BRIDGE 54-0853L] D;
 [40 SBD R77.42] D;
 G11-5(CA)



TYPICAL LOCATION AND INSTALLATION OF G11-5(CA) SIGN

SIGN PANEL MATERIAL QUANTITIES

SIGN CODE	SIGN SIZE L x D (in x in)	SINGLE FACED	SIGN FACING MATERIAL					SIGN PANEL SUBSTRATE MATERIAL (SQFT)	
			BACKGROUND		LEGEND		GRAFFITI FILM	ROADSIDE	SINGLE-SHEET
			SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	PREMIUM	UNFRAMED ALUMINUM	0.063 Inch
G11-5 (CA)	44 X 24	X	WHITE	IV	BLACK	IV	X	7.33	
TOTAL								7.33	

ROADSIDE SIGN QUANTITIES

SIGN CODE	PANEL SIZE	LENGTH AND POST SIZE	ROADSIDE SIGN ONE POST
		4" X 4"	
		FT	EA
G11-5 (CA)	44" X 24"	10	1
TOTAL			1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

BORDER LAST REVISED 4/11/2008

REVISOR
 PHILLIP PHAN
 MARC TALAVERA

DESIGNER
 PHILLIP PHAN
 MARC TALAVERA

FUNCTIONAL SUPERVISOR
 KUANG H. CHEN

DATE PLOTTED => 08-JAN-2009
 TIME PLOTTED => 06:18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R77.4	6	12

Van Ho 11-17-08
 REGISTERED CIVIL ENGINEER DATE
 1-5-09
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 HAO VAN HO
 No. 64720
 Exp. 6-30-09
 CIVIL
 STATE OF CALIFORNIA

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PAVEMENT QUANTITIES

ROUTE	PM	COLD PLANE ASPHALT CONCRETE PAVMENT	HOT MIX ASPHALT (TYPE A) (HMA-A)	SHOULDER RUMBLE STRIP (GROUND-IN)
		(SQYD)	(TON)	(STA)
40	R77.35/R77.39	1010	128	4.40
	R77.42/R77.46	1010	128	4.40
TOTAL		2020	256	8.80

SUMMARY OF QUANTITIES
Q-1

RELATIVE BORDER SCALE IS IN INCHES

USERNAME => frrmikesl
 DGN FILE => 80e430pa001.dgn

CU 08608

EA 0E4301

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	40	R77.4	7	12

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

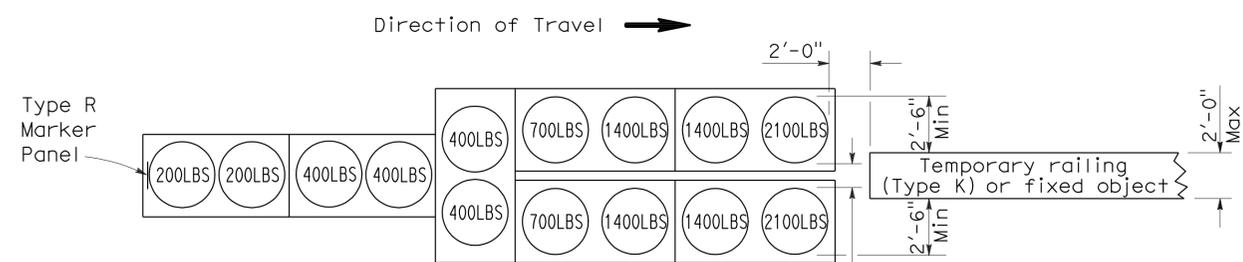
June 6, 2008
PLANS APPROVAL DATE

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

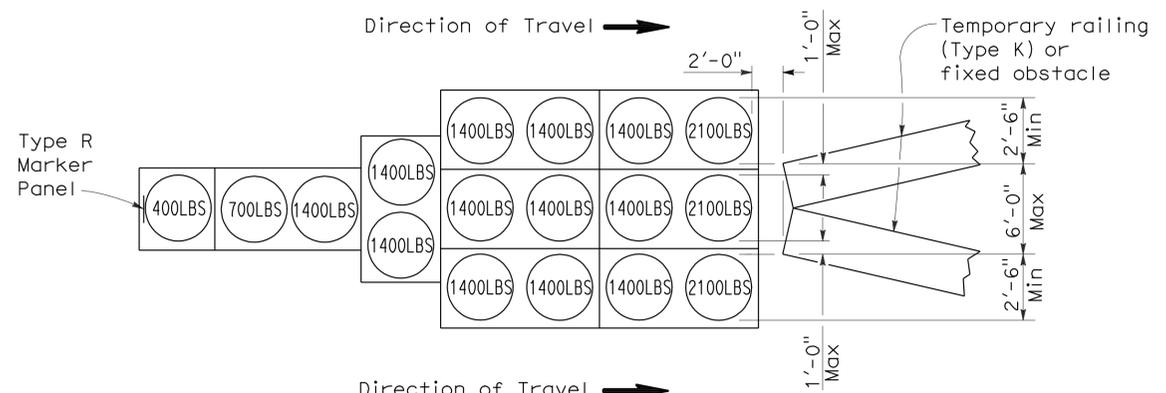
To accompany plans dated 1-5-09

2006 REVISED STANDARD PLAN RSP T1A



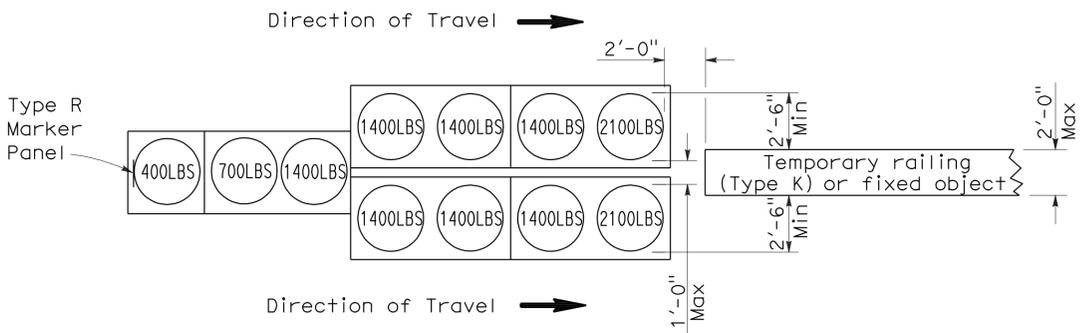
ARRAY 'TU14'

Approach speed 45 mph or more



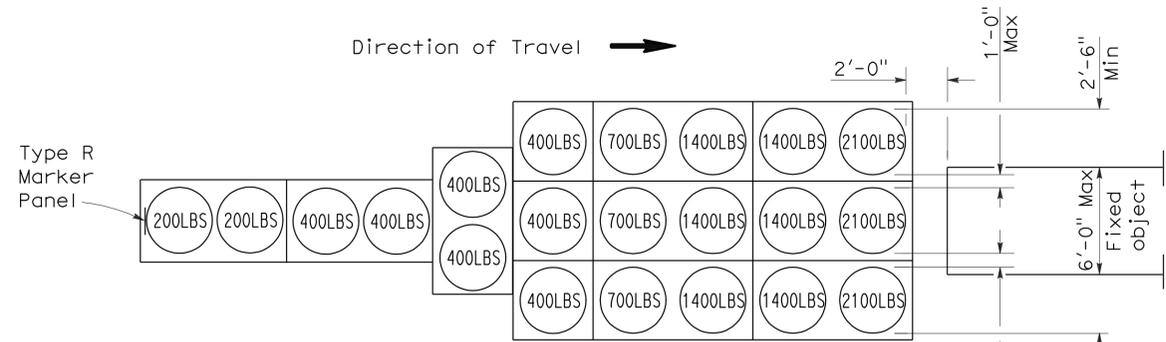
ARRAY 'TU17'

Approach speed less than 45 mph



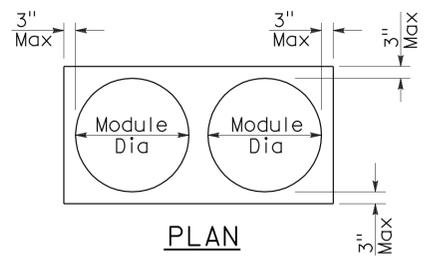
ARRAY 'TU11'

Approach speed less than 45 mph

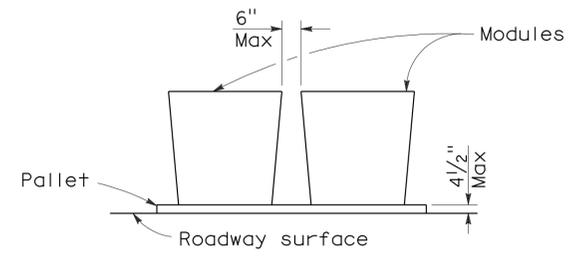


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	40	R77.4	8	12

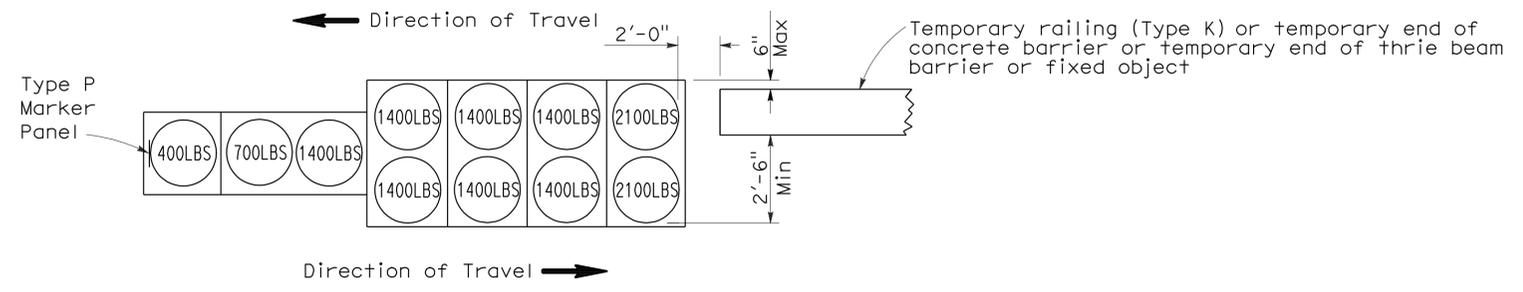
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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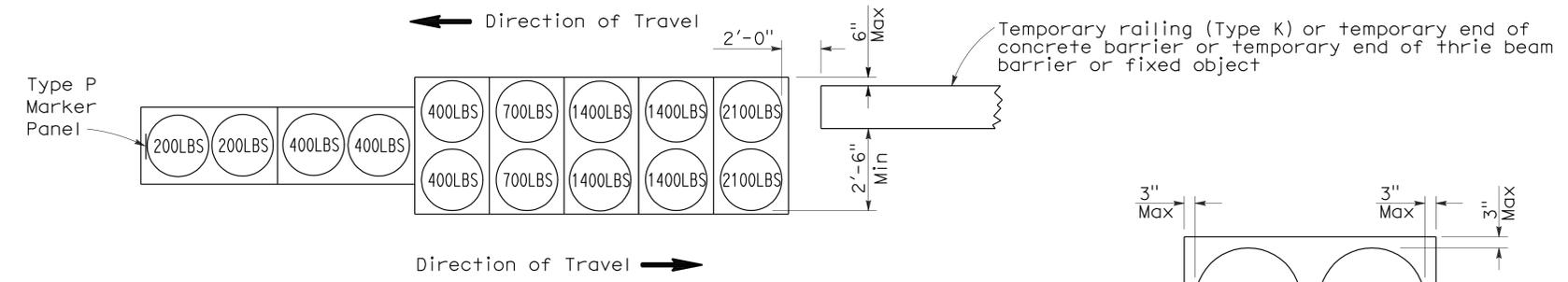
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 1-5-09



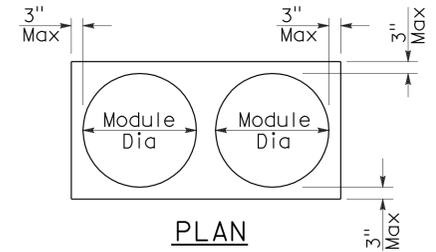
ARRAY 'TB11'

Approach speed less than 45 mph

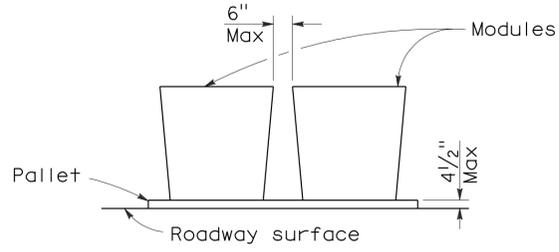


ARRAY 'TB14'

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 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	40	R77.4	9	12

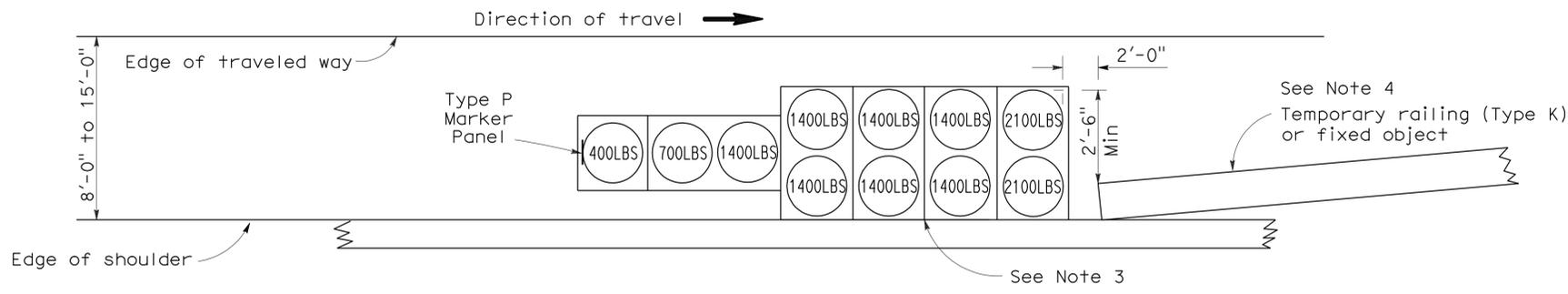
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

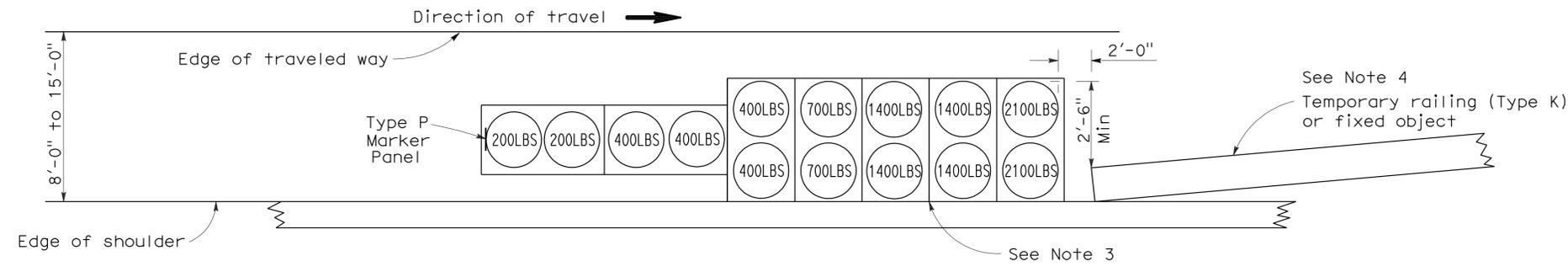
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 1-5-09



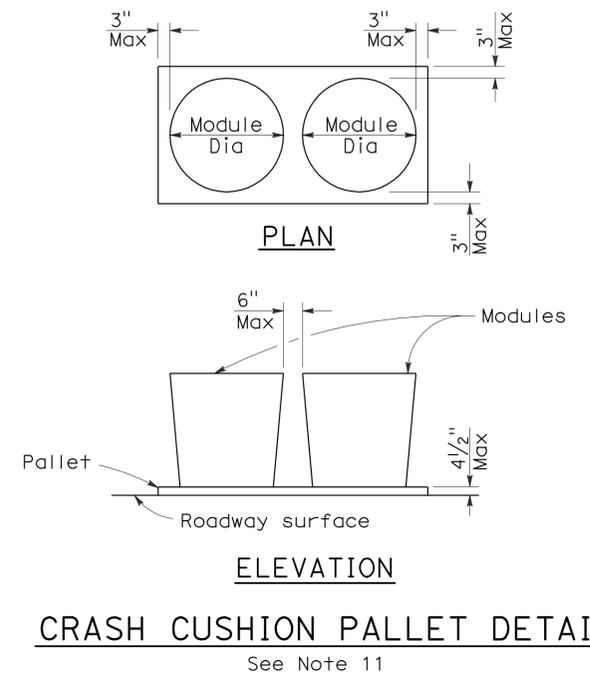
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

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.



CRASH CUSHION PALLET DETAIL
See Note 11

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

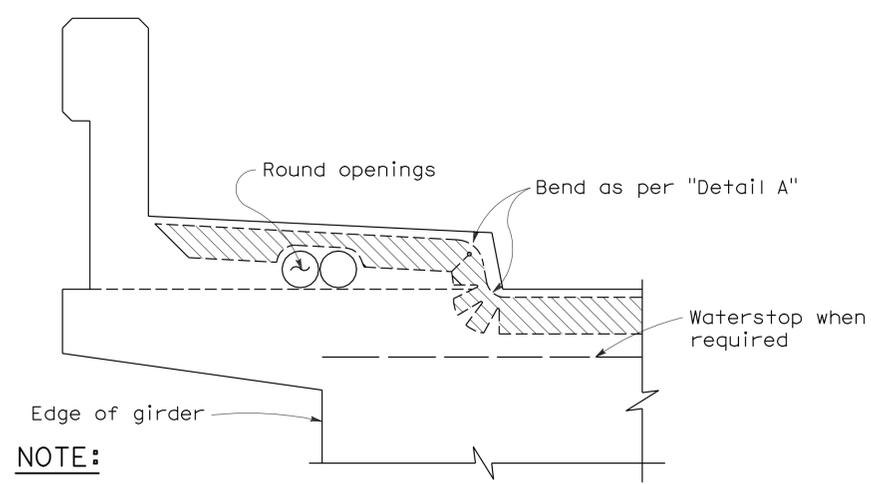
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

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.

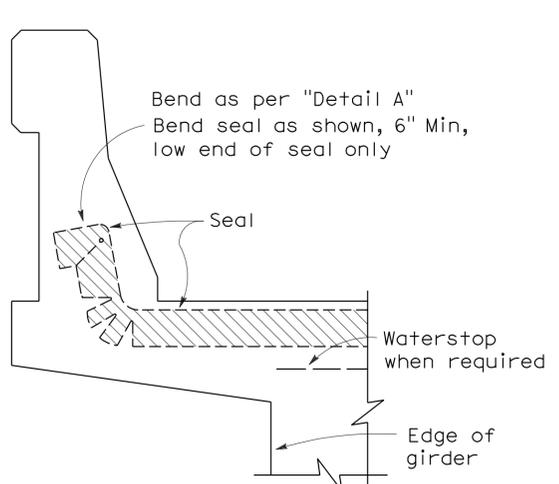
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

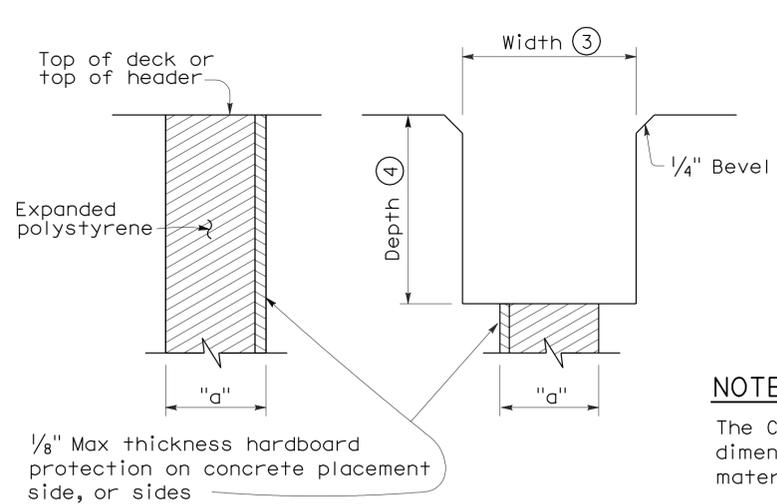


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



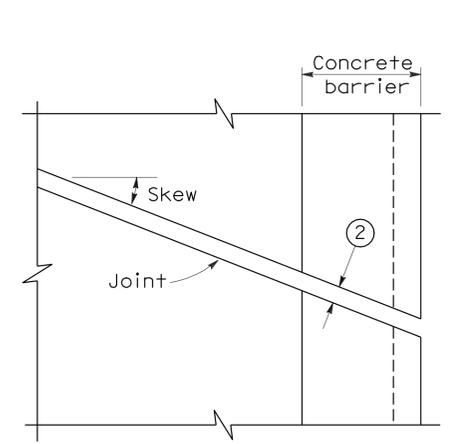
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

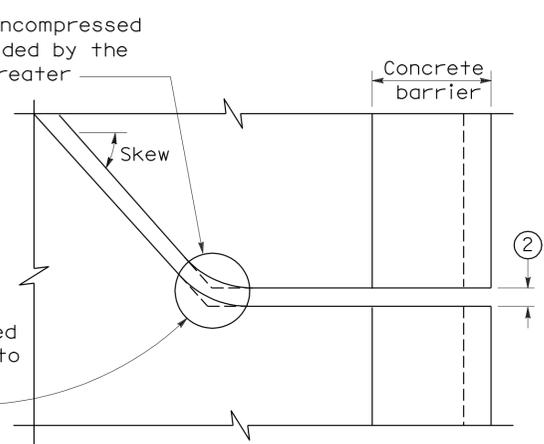
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



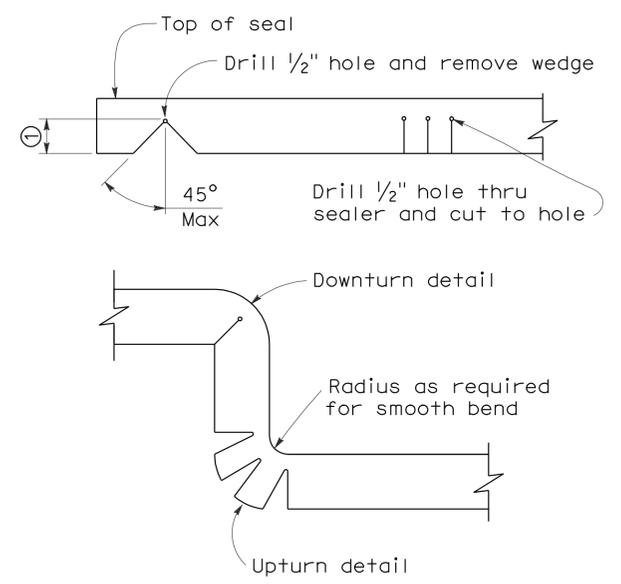
PLAN OF JOINT (SKEW ≤ 20°)

Min 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

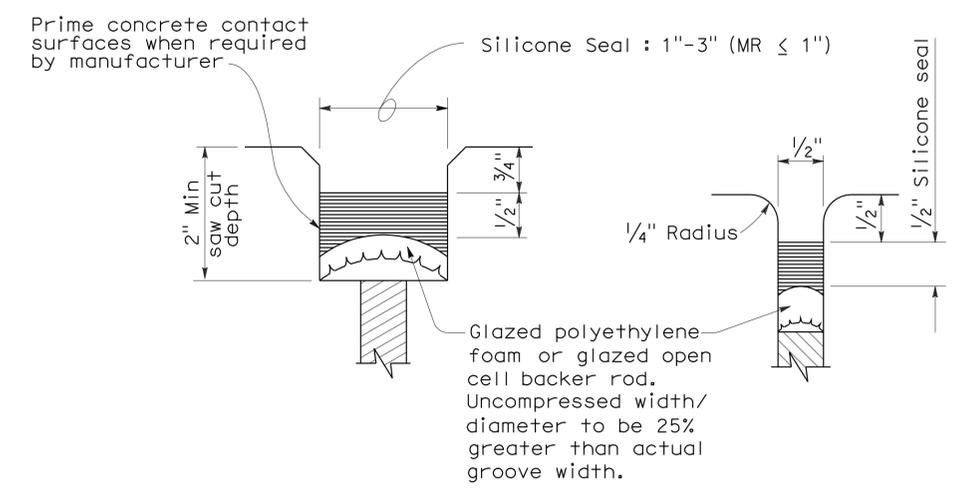
NOTES:

- 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

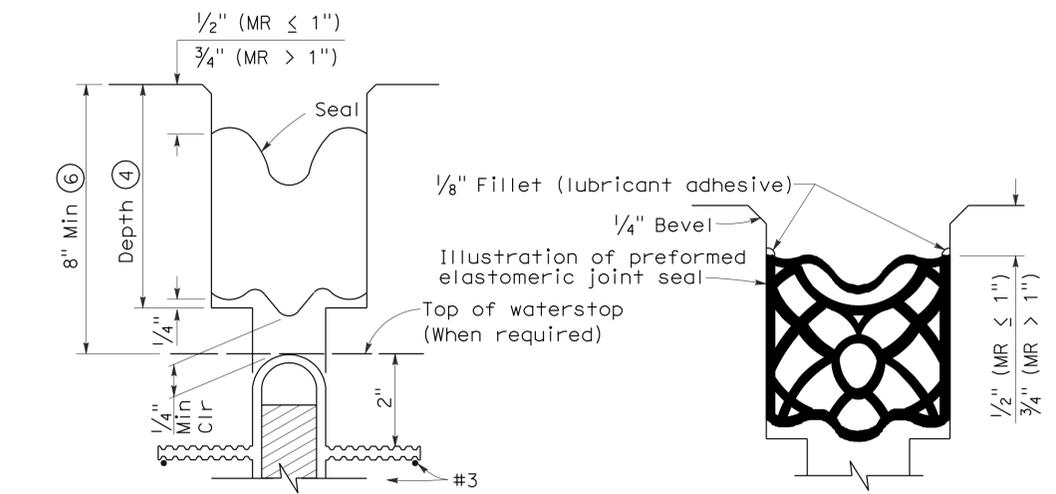


TYPE A SEAL

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.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	R77.4	11	12

Edward Li 06-24-08
 REGISTERED CIVIL ENGINEER DATE

1-5-09
 PLANS APPROVAL DATE

No. C56706
 Exp. 06/30/09
 CIVIL
 STATE OF CALIFORNIA

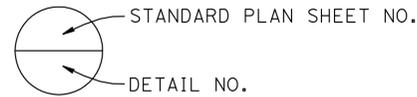
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- Indicates existing.
-  Indicates limits of prepare concrete deck surface and place 1 inch polyester concrete deck overlay.
-  Indicates limits of remove existing AC membrane.
-  Indicates remove unsound concrete and replace with rapid setting concrete patch. Actual area may vary and will be determined by the Engineer.

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")

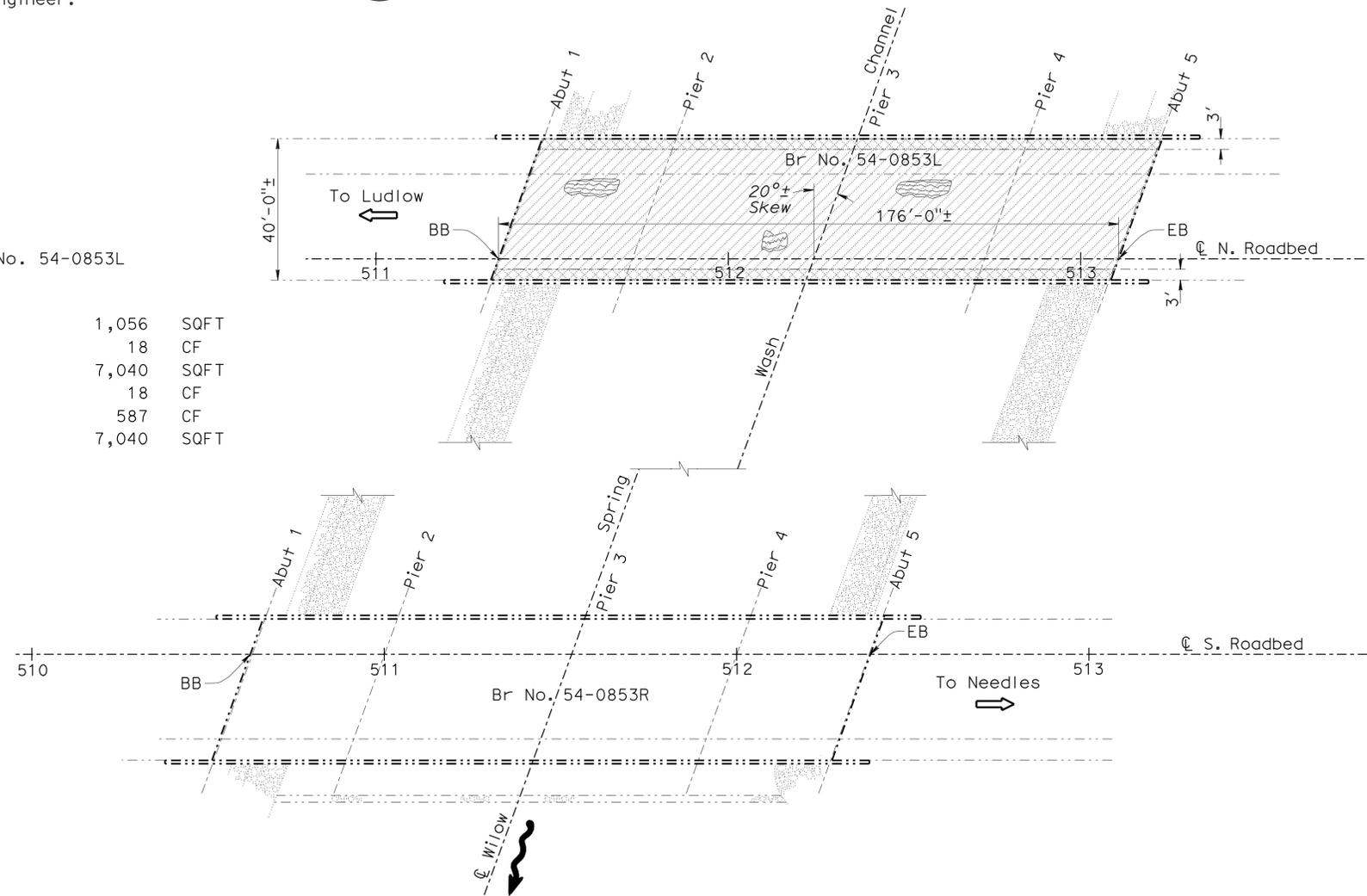


INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	MISCELLANEOUS DETAILS NO. 1

WILLOW SPRINGS WASH BRIDGE Br No. 54-0853L
 QUANTITIES

REMOVE ASPHALT CONCRETE MEMBRANE	1,056	SQFT
REMOVE UNSOUND CONCRETE	18	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,040	SQFT
RAPID SETTING CONCRETE (PATCH)	18	CF
FURNISH POLYESTER CONCRETE OVERLAY	587	CF
PLACE POLYESTER CONCRETE OVERLAY	7,040	SQFT



WILLOW SPRINGS WASH

Br No. 54-0853L, Rte 40, PM R77.39
 SCALE 1"=10'



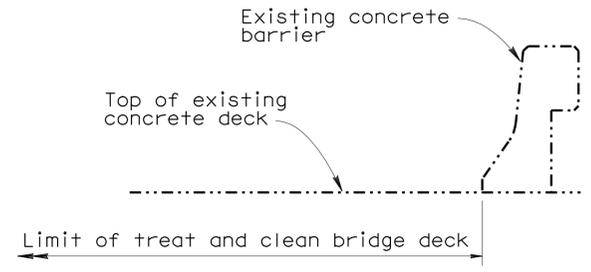
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

X TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Vinh Dang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	54-0853L	WILLOW SPRINGS WASH BRIDGE GENERAL PLAN NO. 1				
	DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom			CHECKED Edward Li	POST MILE		R77.39			
	QUANTITIES	BY Edward Li	CHECKED Vinh Dang	SPECIFICATIONS	BY Mehrdad Zariv			PLANS AND SPECS COMPARED Mehrdad Zariv	REVISION DATES		02-26-08 02-24-08 03-16-08 03-21-08 05-13-08 05-20-08 06-23-08 06-24-08			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)										ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA OE4301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 1 OF 2

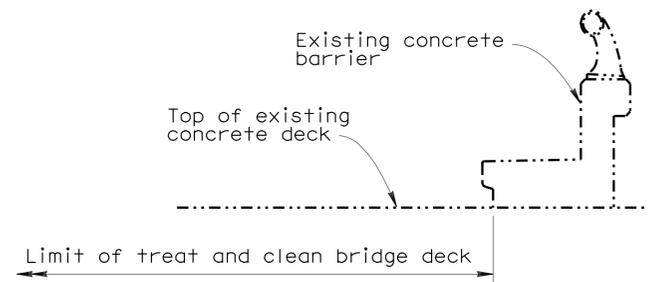
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	R77.4	12	12
Edward Li REGISTERED CIVIL ENGINEER DATE 06-24-08			No. C56706 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA		
1-5-09 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					

DECK REPAIR TABLE						
BRIDGE NAME	BRIDGE NUMBER	TOTAL DECK AREA (SQ FT)	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCHES)	REMOVE UNSOUND CONCRETE (CU FT)	RAPID SETTING CONCRETE PATCH (CU FT)
Willow Springs Wash Bridge	54-0853L	7,040	1.5	2"	18	18

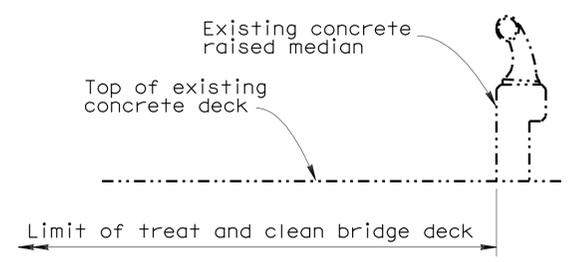
- DECK REPAIR NOTES:
- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
 - It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
 - When existing transverse reinforcement is exposed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



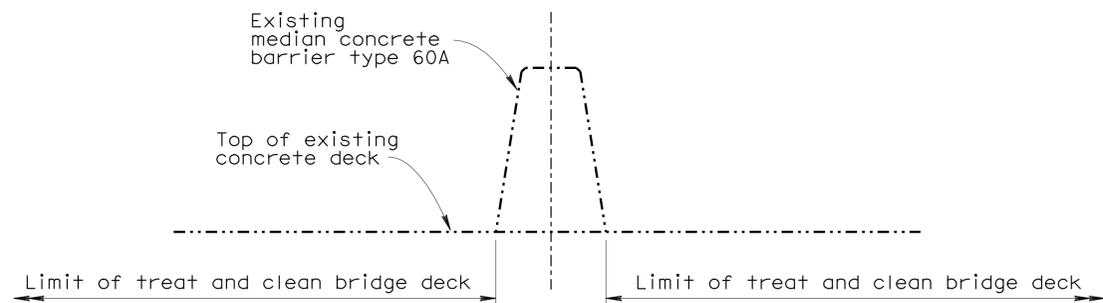
EOD BARRIER



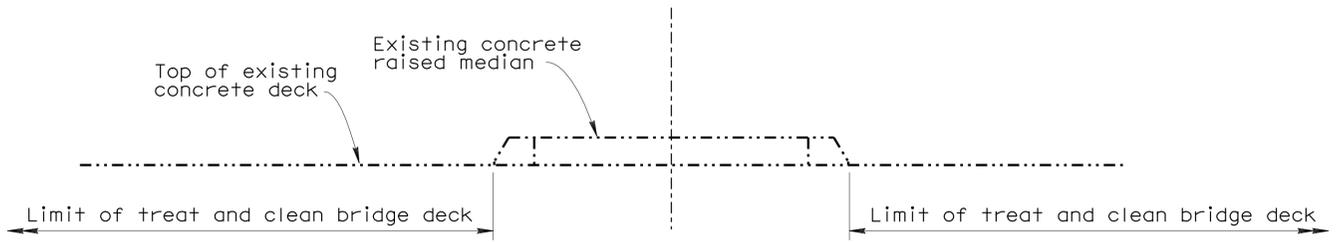
SIDEWALK BARRIER TYPE 2



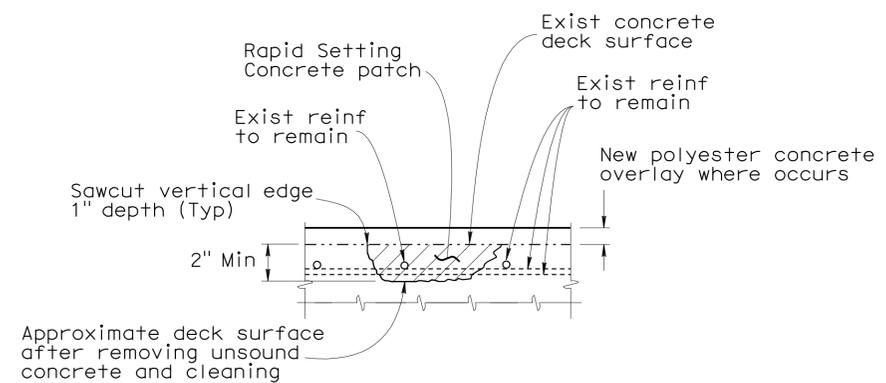
SIDEWALK BARRIER TYPE 1



MEDIAN BARRIER



RAISED MEDIAN



DECK DAMAGE REPAIR AND OVERLAY DETAILS

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

TYPICAL LIMITS OF DECK WORK

NO SCALE

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

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Edward Li	CHECKED Vinh Dang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	54-0853L	WILLOW SPRINGS WASH BRIDGE MISCELLANEOUS DETAILS NO. 1		
	DETAILS	BY Clayton Tom	CHECKED Edward Li			POST MILE	R77.39			
	QUANTITIES	BY Edward Li	CHECKED Vinh Dang			CU 08 EA 0E4301	REVISION DATES		2-28-08 3-10-08 05-21-08 05-28-08 06-23-08	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS								0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 2 OF 2

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USERNAME => hrmikes DATE PLOTTED => 08-JAN-2009 TIME PLOTTED => 06:19