

INDEX OF PLANS

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STRUCTURE PLANS

14-18	YUBA RIVER BRIDGE AND OVERHEAD Br No. 16-0034
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

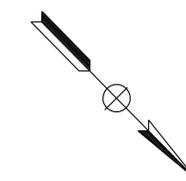
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN YUBA COUNTY
IN AND NEAR MARYSVILLE
FROM 0.4 MILE NORTH OF SOUTH MARYSVILLE
UNDERCROSSING TO 0.1 MILE SOUTH OF 3RD STREET

BH-P070(121)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yub	70	13.6/14.1	1	18



TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

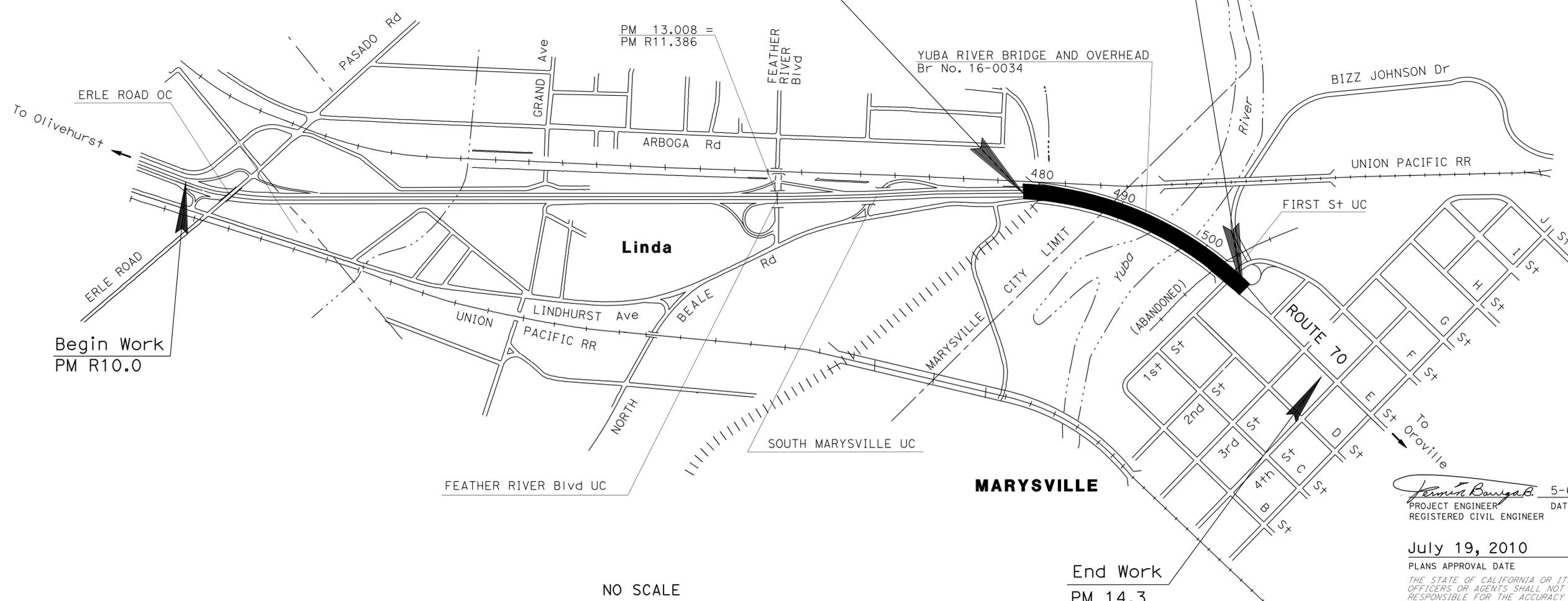


BEGIN CONSTRUCTION

Sta "B4" 478+36
PM 13.6

END CONSTRUCTION

Sta "B4" 508+20
PM 14.1



Begin Work
PM R10.0

End Work
PM 14.3

NO SCALE

PROJECT MANAGER	MIKE BARTLETT
DESIGN ENGINEER	FERMIN BARRIGA

Fermin Barriga 5-6-10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER



July 19, 2010
PLANS APPROVAL DATE

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

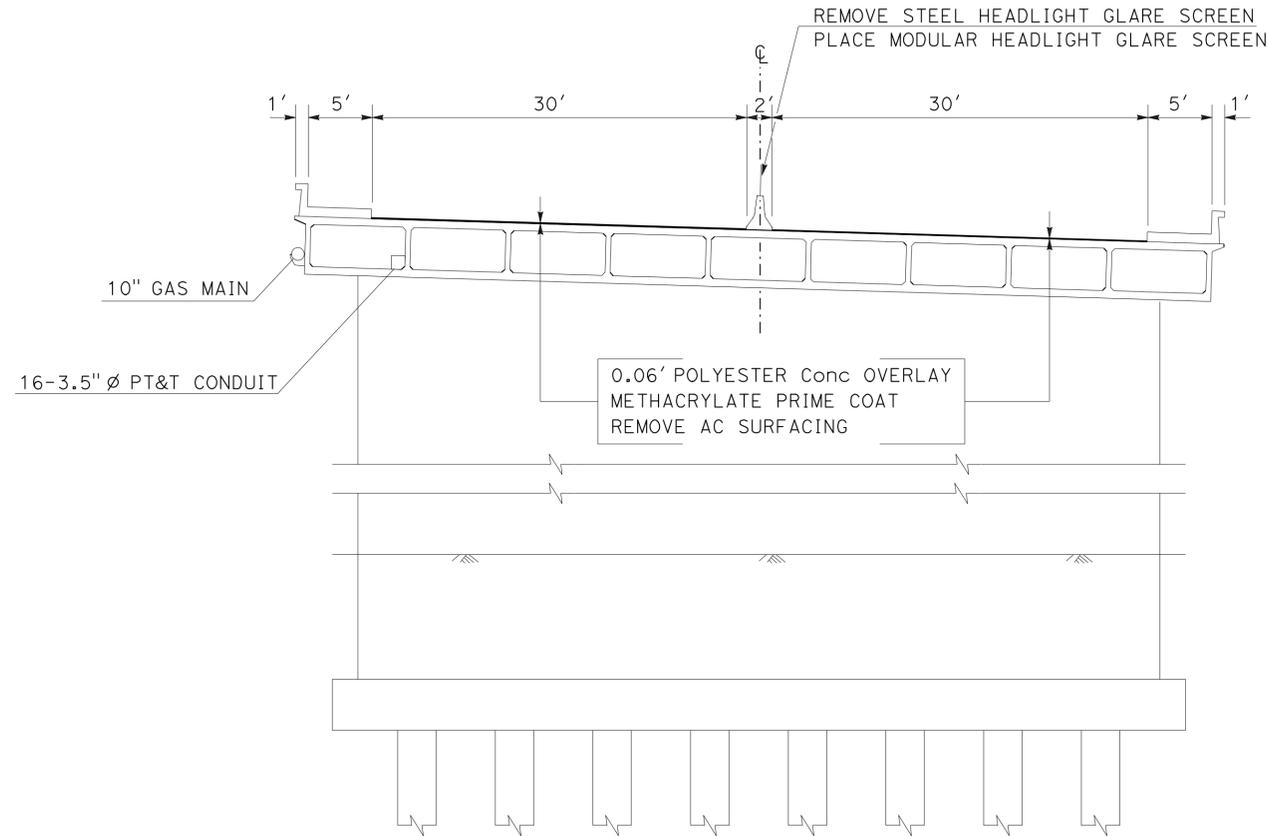
CONTRACT No.	03-0E0804
PROJECT ID	030000023

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yub	70	13.6./14.1	2	18

<i>Fermin Barriga</i>	5-6-10
REGISTERED CIVIL ENGINEER	DATE
REGISTERED PROFESSIONAL ENGINEER F BARRIGA No. 47047 Exp. 12-31-11 CIVIL STATE OF CALIFORNIA	
7-19-10	
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:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. SEE STRUCTURE PLANS FOR ADDITIONAL WORK AND ADDITIONAL DETAILS.

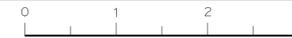


ROUTE 70
YUBA RIVER BOH

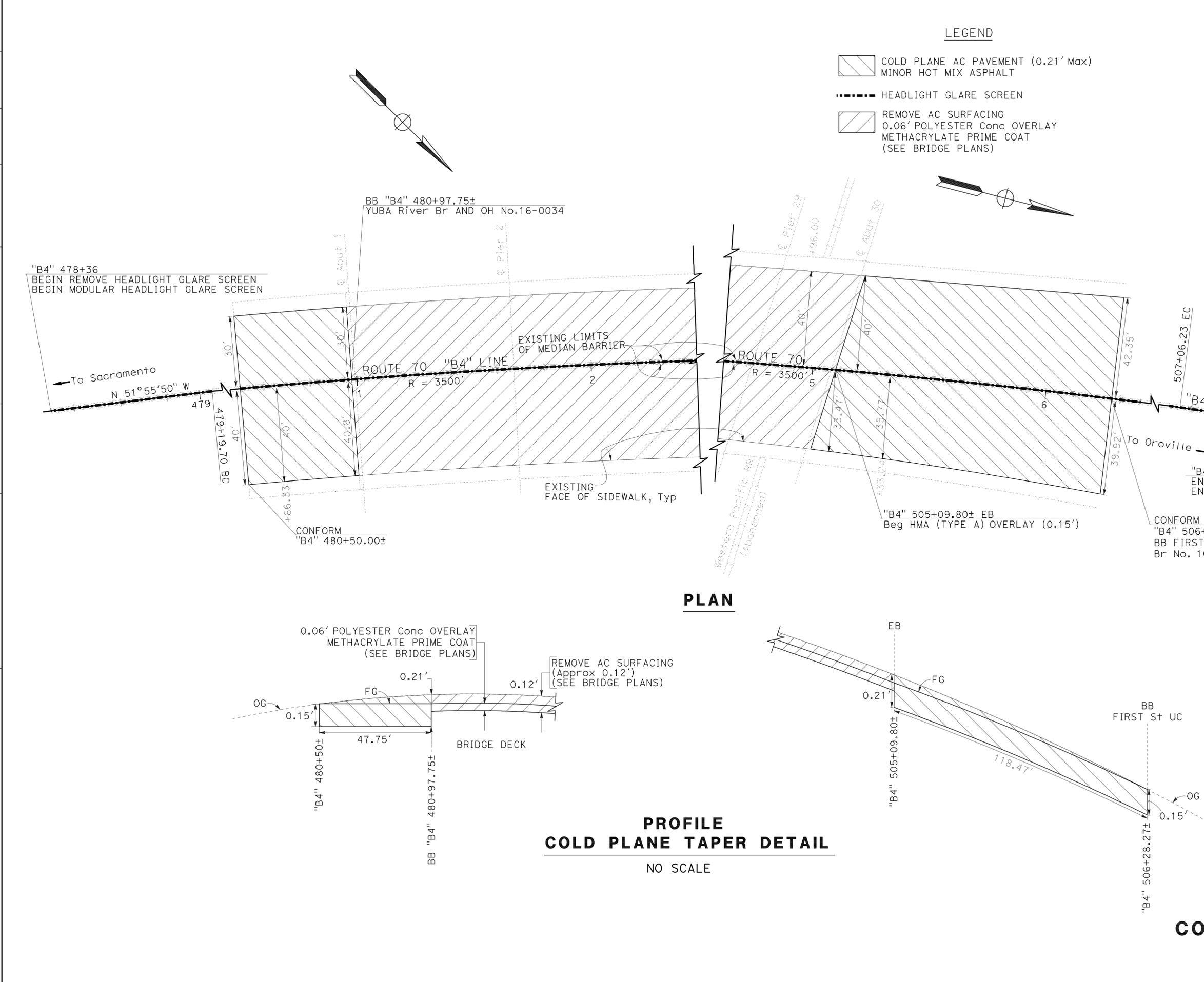
TYPICAL CROSS SECTION
NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans	THOMAS L. BRANNON	SHARON WOODBECK	SHARON WOODBECK
		CHECKED BY	DATE
		FERMIN BARRIGA	



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN



LEGEND

- COLD PLANE AC PAVEMENT (0.21' Max)
MINOR HOT MIX ASPHALT
- HEADLIGHT GLARE SCREEN
- REMOVE AC SURFACING
0.06' POLYESTER Conc OVERLAY
METHACRYLATE PRIME COAT
(SEE BRIDGE PLANS)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yub	70	13.6./14.1	3	18

5-6-10
 REGISTERED CIVIL ENGINEER DATE
 F BARRIGA
 No. 47047
 Exp. 12-31-11
 CIVIL
 STATE OF CALIFORNIA

7-19-10
 PLANS APPROVAL DATE
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CONSTRUCTION DETAIL
 SCALE: 1" = 20'
C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR
 THOMAS L. BRANNON

CALCULATED/DESIGNED BY
 CHECKED BY

SHARON WOODBECK
 FERMIN BARRIGA

REVISED BY
 DATE REVISED

NOTES:

1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE DE-1 SHEET.
3. THIS PLAN IS ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.
4. PLACE ONE SIGN IN THE MEDIAN AND ONE ON THE OUTSIDE.

LEGEND

- ┆ SIGN-SINGLE POST
- ┆ SIGN-DOUBLE POST

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yub	70	13.6./14.1	4	18

Fermin Barriga 5-6-10
 REGISTERED CIVIL ENGINEER DATE
 7-19-10
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
F BARRIGA
 No. 47047
 Exp. 12-31-11
 CIVIL
 STATE OF CALIFORNIA

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE (FEDERAL)	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	NUMBER OF SIGNS (EACH)
(A)	W20-1	48" X 48"	ROAD WORK AHEAD	1-4" X 6"	3
(B)	G20-2	36" X 18"	END ROAD WORK	1-4" X 4"	2
(C)	W20-1	60" X 60"	ROAD WORK AHEAD	2-4" X 6"	2



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

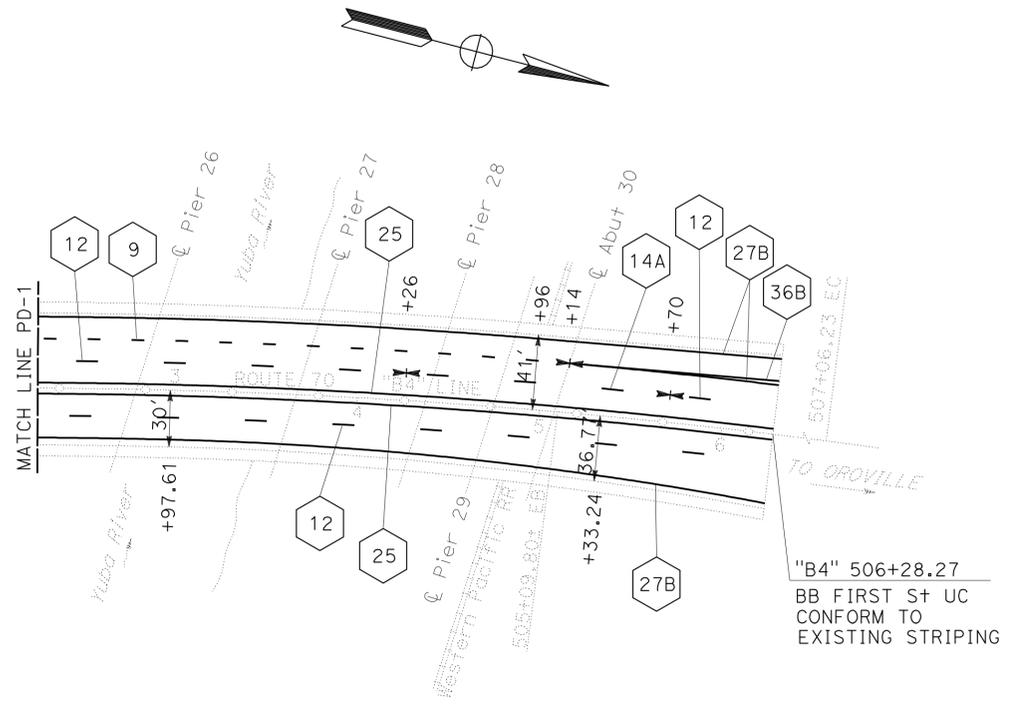


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yub	70	13.6/14.1	7	18

REGISTERED CIVIL ENGINEER
 DATE 04-26-10
 7-19-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 No. 38426
 Exp. 3-31-11
 CIVIL

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 J. LOFTUS
 C. COOK
 JOSEPH W. HORTON
 TRAFFIC

4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)

DETAIL NUMBER	LINEAR FEET
12	5,188
14A	144
TOTAL	5,332

4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)

DETAIL NUMBER	LINEAR FEET
9	734
TOTAL	734

4" THERMOPLASTIC TRAFFIC STRIPE

DETAIL NUMBER	LINEAR FEET
25	5,156
27B	5,446
TOTAL	10,602

8" THERMOPLASTIC TRAFFIC STRIPE

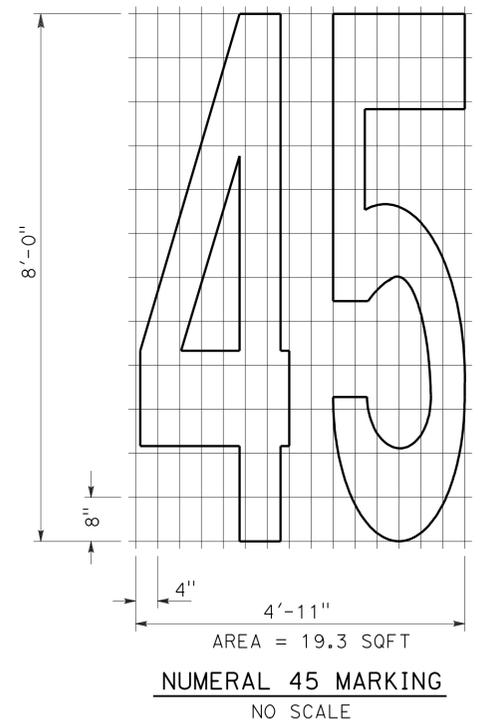
DETAIL NUMBER	LINEAR FEET
36B	114
TOTAL	114

THERMOPLASTIC PAVEMENT MARKING

DESCRIPTION	NUMBER	SQUARE FEET
NUMERAL "25"	2 @ 17.5 SQFT	35.0
NUMERAL "45"	2 @ 19.3 SQFT	38.6
TOTAL		73.6

PAVEMENT MARKER (RETROREFLECTIVE)

DETAIL NUMBER	TYPE C (EACH)	TYPE G (EACH)	TYPE H (EACH)
9		16	
12		109	
14A	4		
25			112
36B		6	
SUBTOTAL	4	131	112
TOTAL		247	



NOTE: MINOR VARIATIONS IN DIMENSIONS MAY BE ACCEPTED BY THE ENGINEER.

PAVEMENT DELINEATION PLAN AND QUANTITIES

SCALE: 1" = 50'

PD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 THOMAS L. BRANNON

CALCULATED/DESIGNED BY
 CHECKED BY

SHARON WOODBECK
 FERMIN BARRIGA

REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yub	70	13.6/14.1	8	18

REGISTERED CIVIL ENGINEER DATE
 7-19-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 F BARRIGA
 No. 47047
 Exp. 12-31-11
 CIVIL
 STATE OF CALIFORNIA

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**HEADLIGHT GLARE
 SCREEN (24")**

STATION		(N) REMOVE	MODULAR
FROM	TO	LF	LF
"B4" 478+36.00	"B4" 508+20.00	2984	2984
TOTAL		2984	2984

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

**COLD PLANE
 AC PAVEMENT**

STATION		AREA
FROM	TO	SQYD
"B4" 480+50.00	"B4" 480+97.75	381.4
"B4" 505+09.80	"B4" 506+28.27	1,039.8
TOTAL		1,421.2

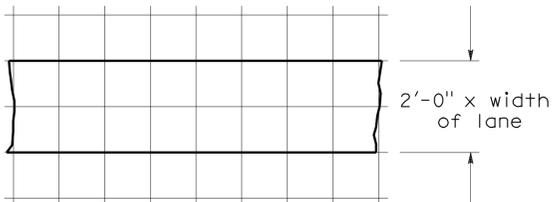
**ROADWAY QUANTITIES
 SUMMARY**

STATION		MINOR HMA
FROM	TO	TON
"B4" 480+50.00	"B4" 480+97.75	38.1
"B4" 505+09.80	"B4" 506+28.27	104.0
TOTAL		142.1

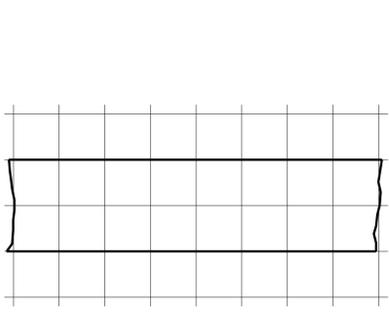
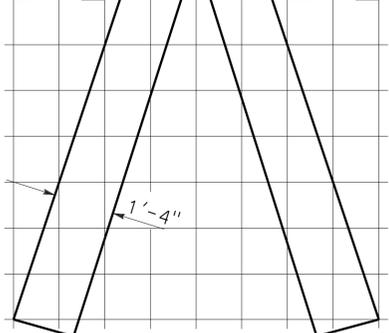
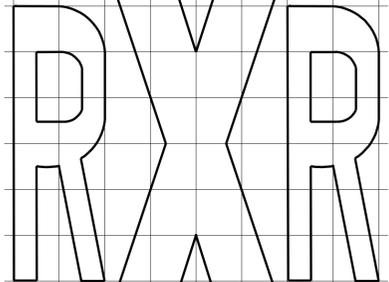
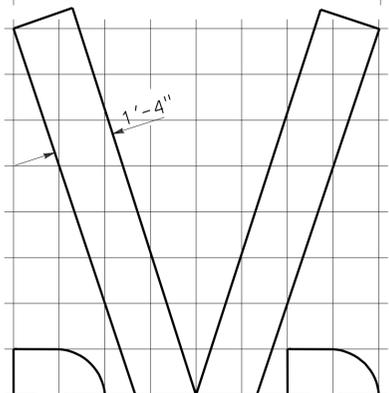
SUMMARY OF QUANTITIES

Q-1

To accompany plans dated 7-19-10



8'-0"



1'-0" GRID
A=70 sq ft *

RAILROAD CROSSING SYMBOL

*70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.

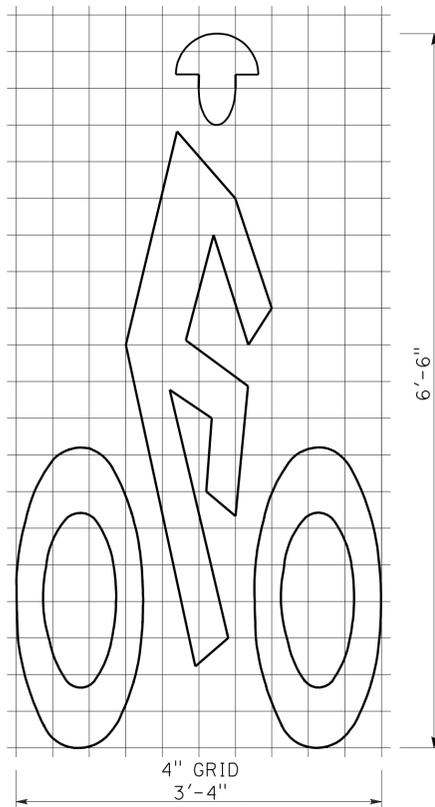
2'-0" x width of lane

14'-0"

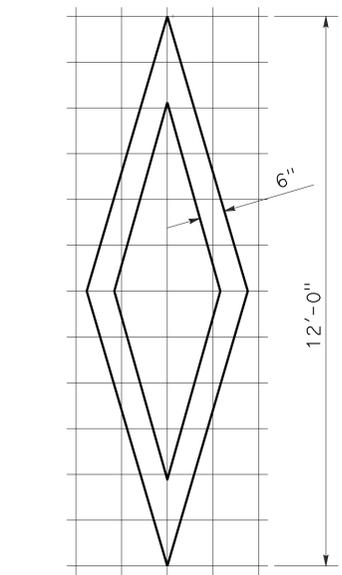
6'-0"
20'-0"

14'-0"

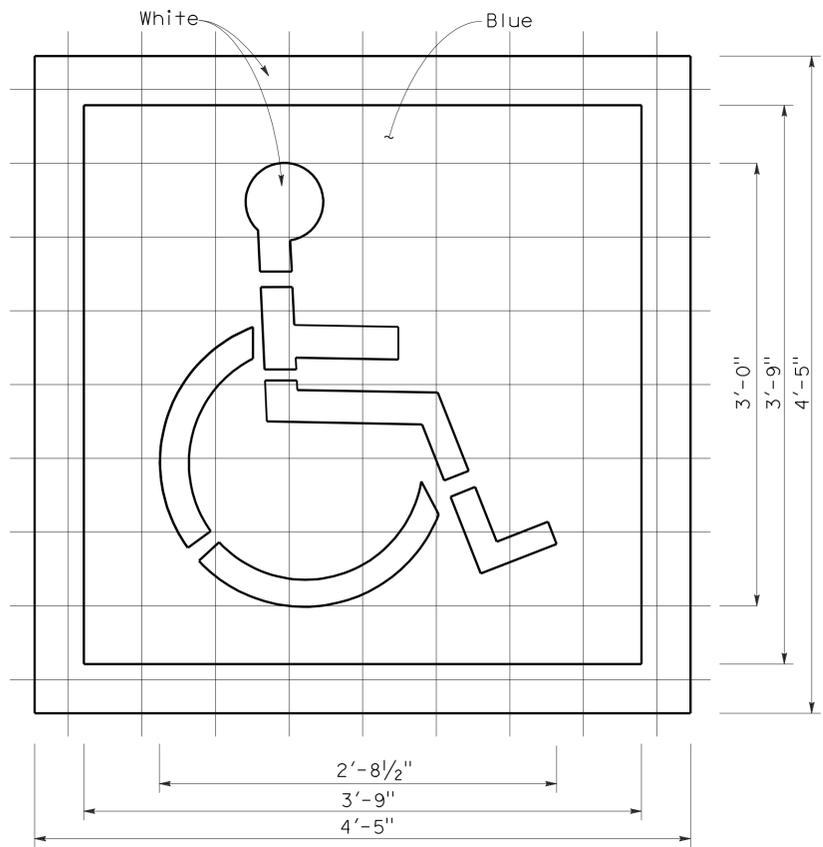
2'-0" x width of lane



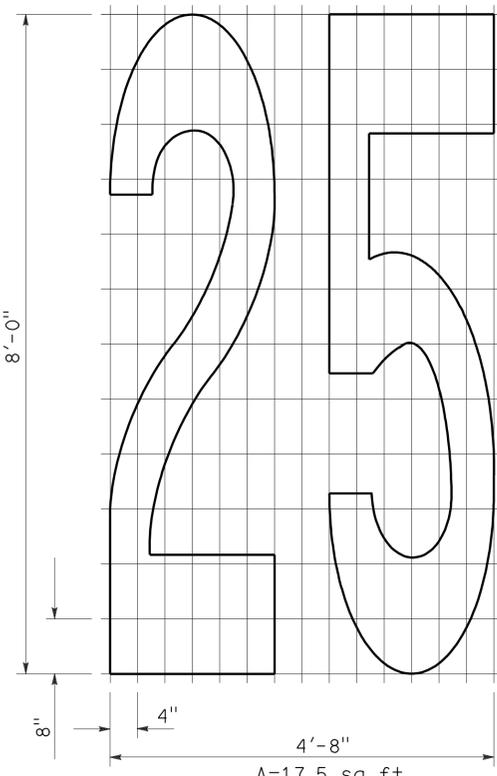
4" GRID
3'-4"
A=7 sq ft
BIKE LANE SYMBOL



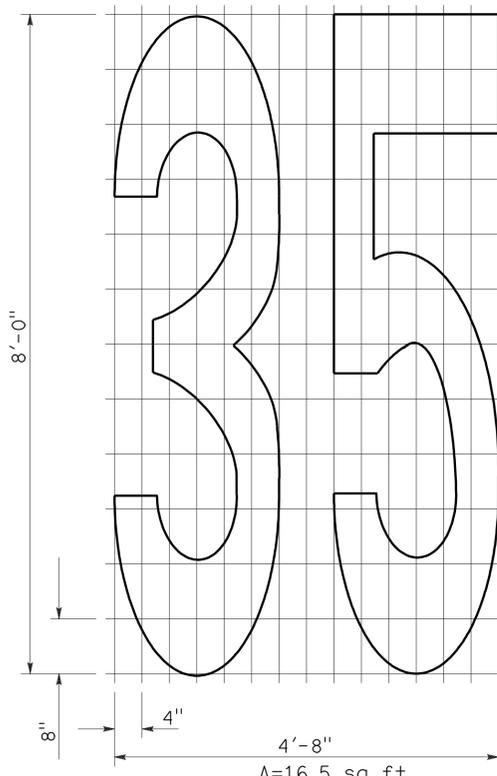
1'-0" GRID
3'-3"
A=11 sq ft
DIAMOND SYMBOL



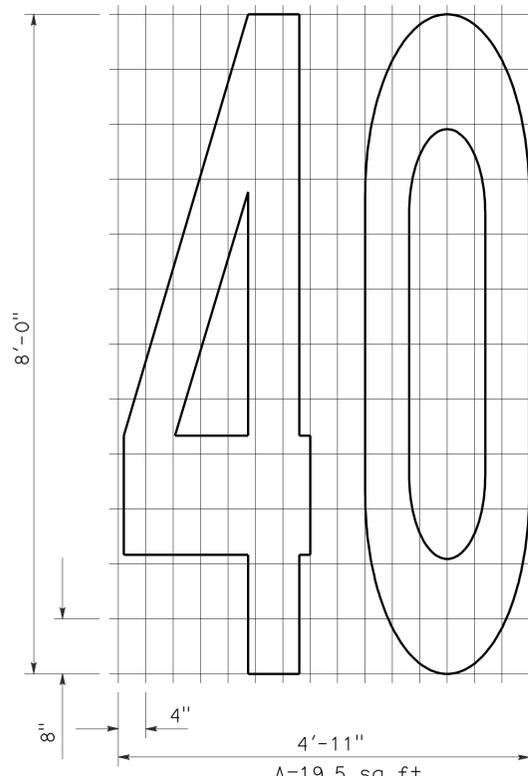
6" GRID
A (White) = 9 sq ft
A (Blue) = 14 sq ft
INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



8'-0"
4"
4'-8"
A=17.5 sq ft

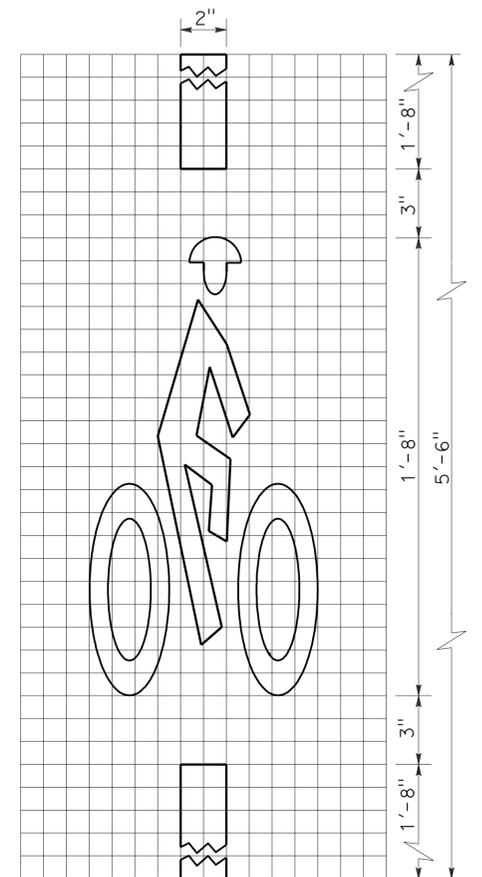


8'-0"
4"
4'-8"
A=16.5 sq ft



8'-0"
4"
4'-11"
A=19.5 sq ft

NUMERALS



1" GRID
10"
A=2 sq ft
BICYCLE LOOP DETECTOR SYMBOL

NOTE:
1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Yub	70	13.6/14.1	10	18

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

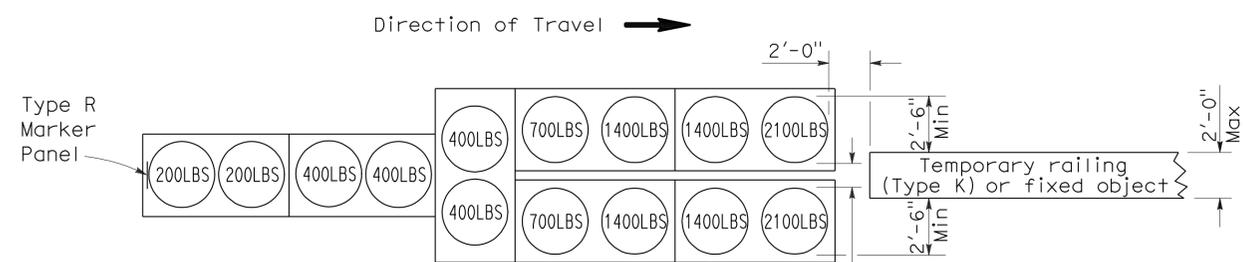
June 6, 2008
PLANS APPROVAL DATE

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

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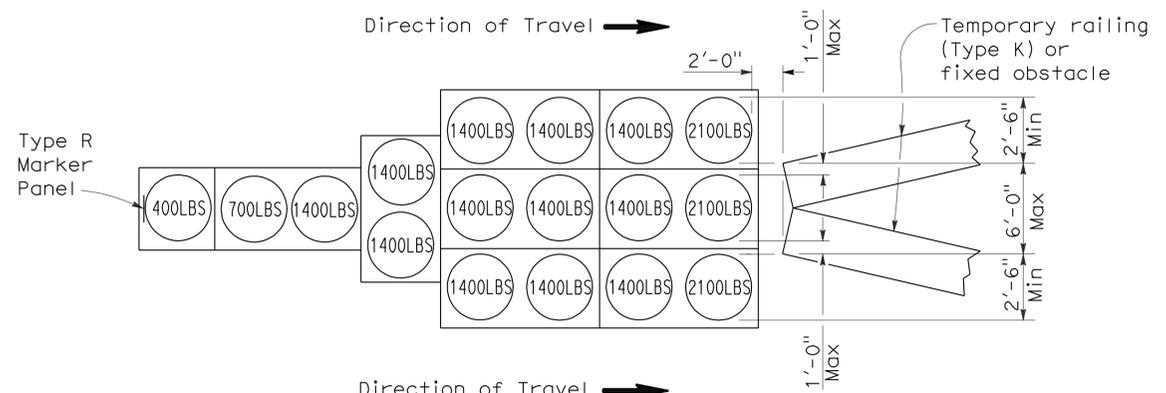
To accompany plans dated 7-19-10

2006 REVISED STANDARD PLAN RSP T1A



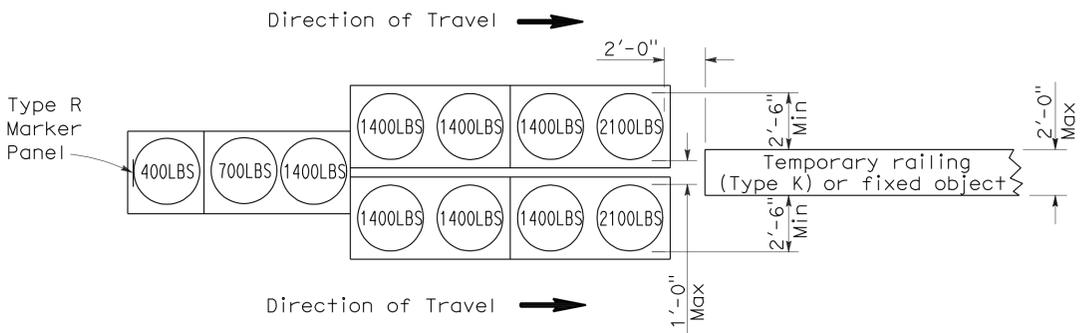
ARRAY 'TU14'

Approach speed 45 mph or more



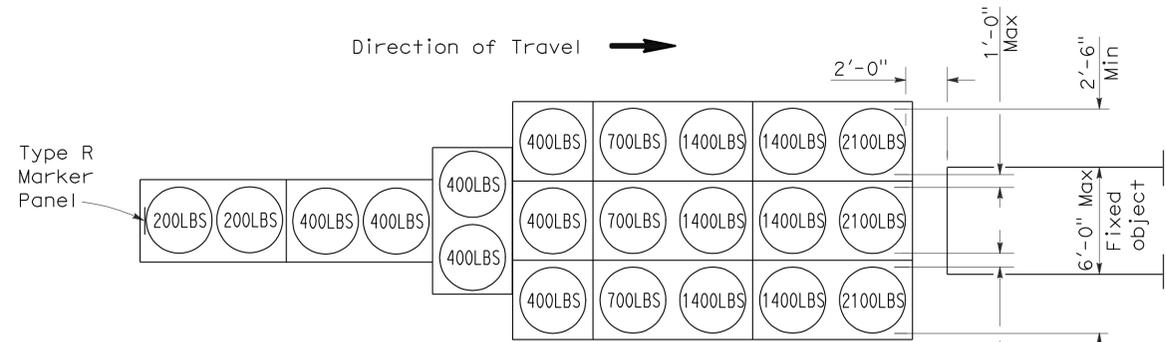
ARRAY 'TU17'

Approach speed less than 45 mph



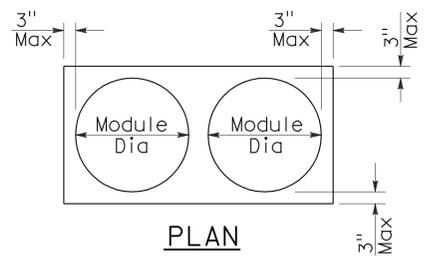
ARRAY 'TU11'

Approach speed less than 45 mph

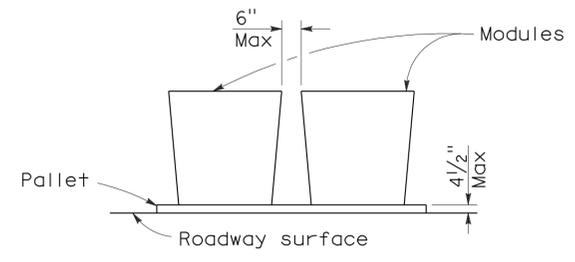


ARRAY 'TU21'

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
03	Yub	70	13.6/14.1	11	18

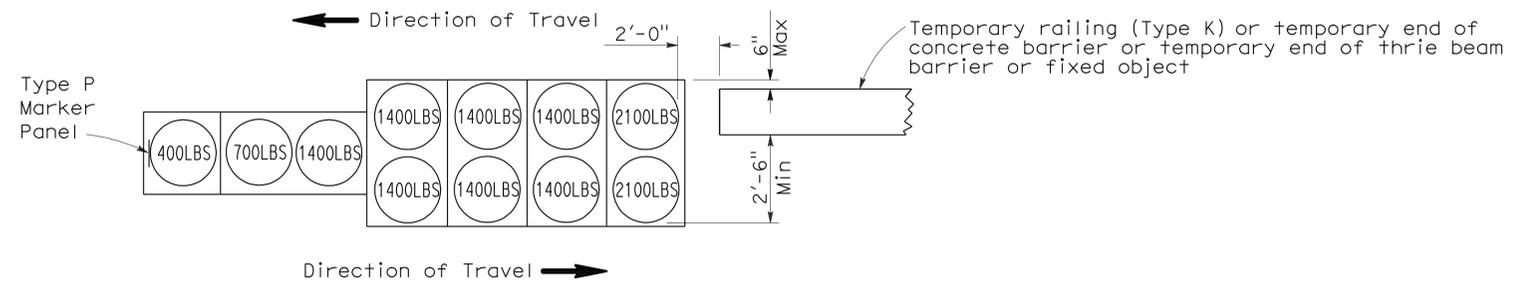
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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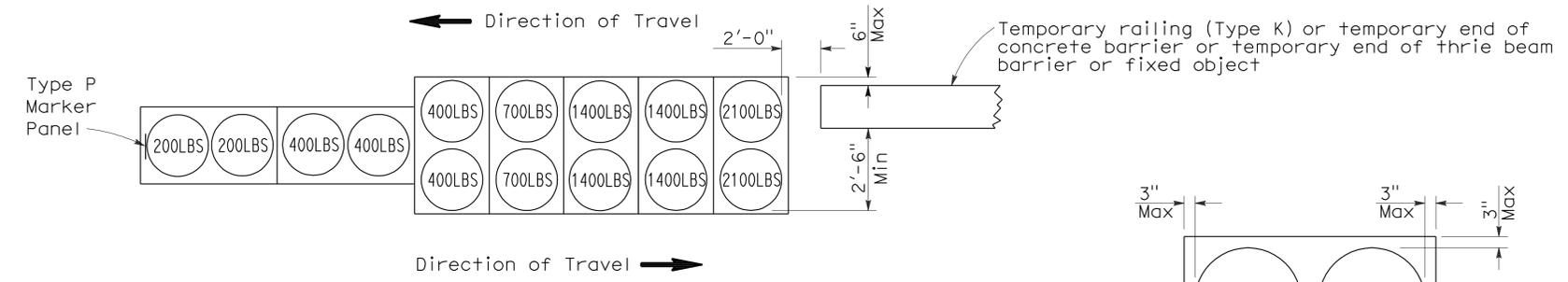
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 7-19-10



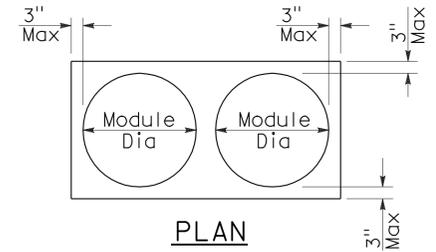
ARRAY 'TB11'

Approach speed less than 45 mph

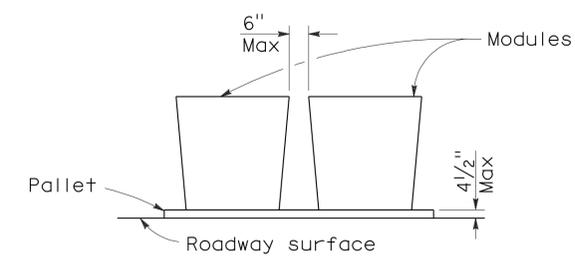


ARRAY 'TB14'

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

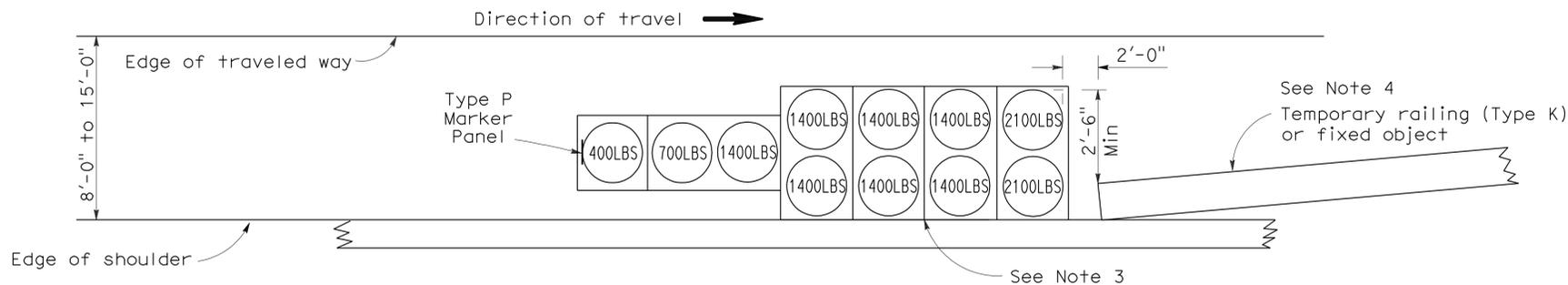
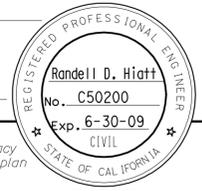
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Yub	70	13.6/14.1	12	18

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

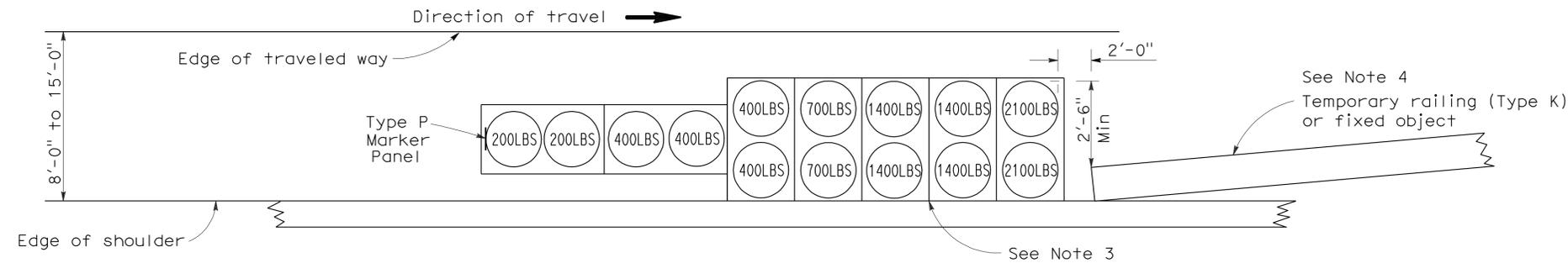
June 6, 2008
PLANS APPROVAL DATE

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To accompany plans dated 7-19-10



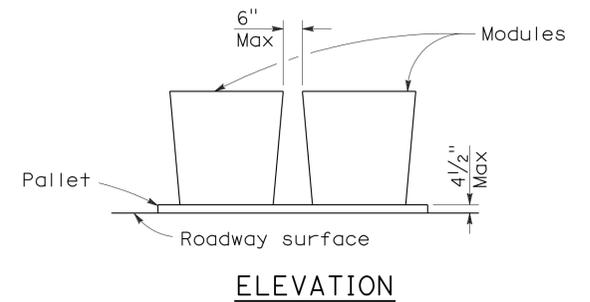
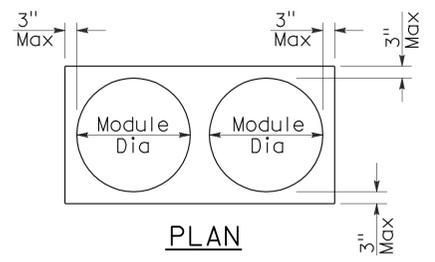
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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.



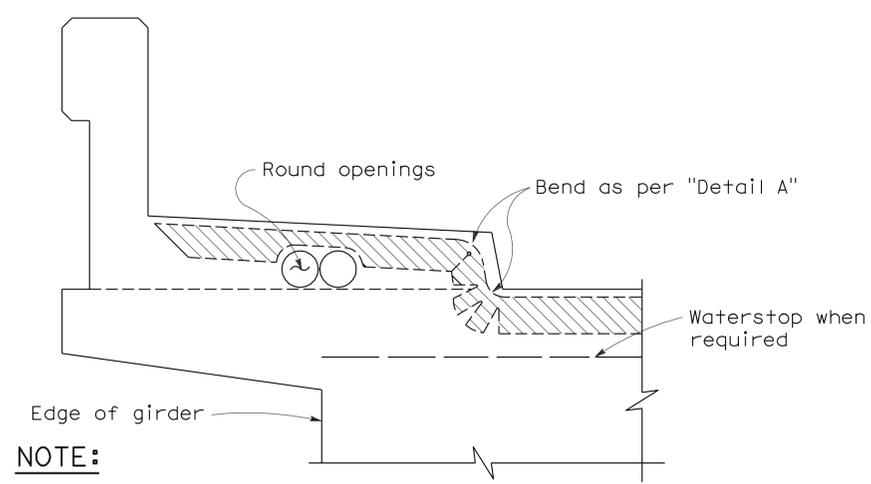
CRASH CUSHION PALLET DETAIL
See Note 11

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.

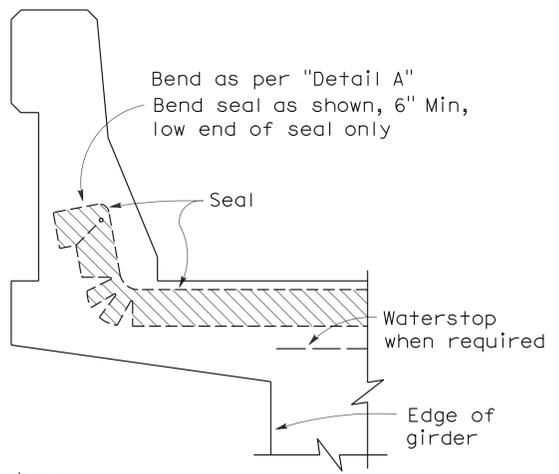
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

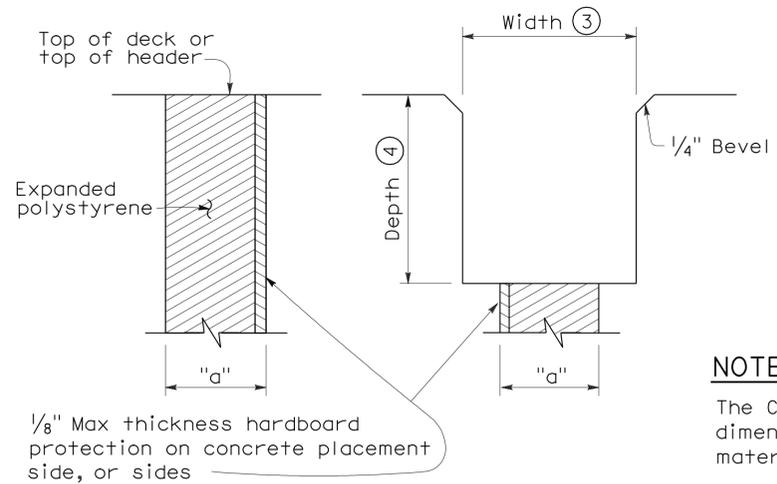


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



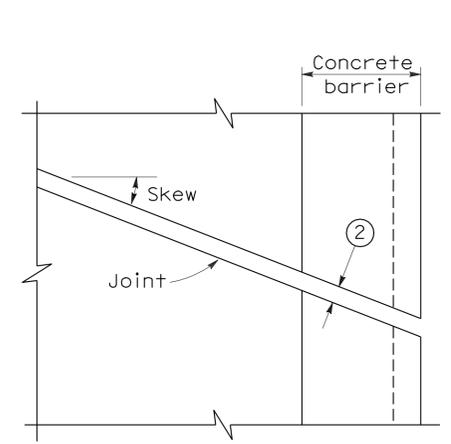
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

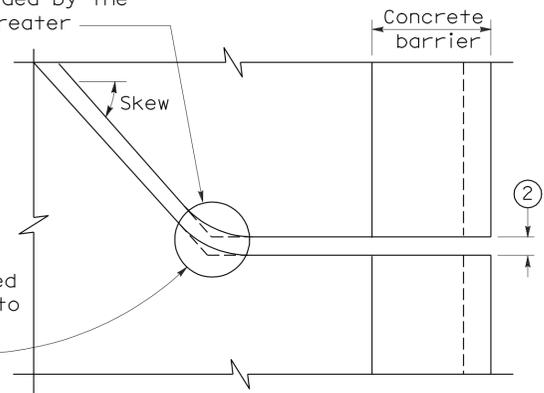
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



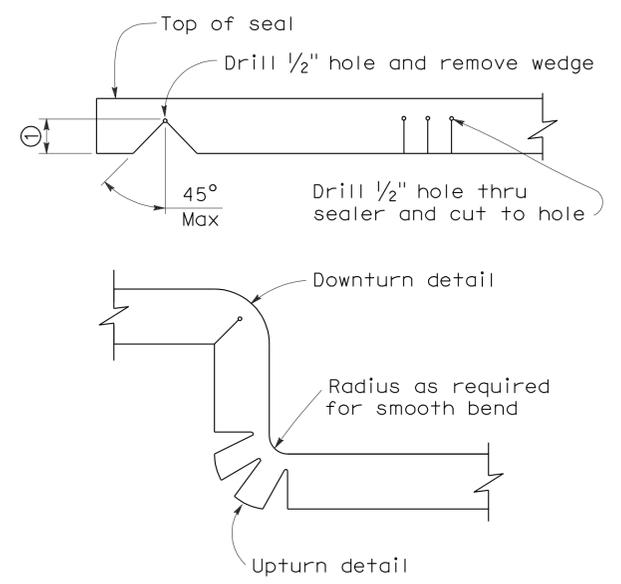
PLAN OF JOINT (SKEW ≤ 20°)

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.



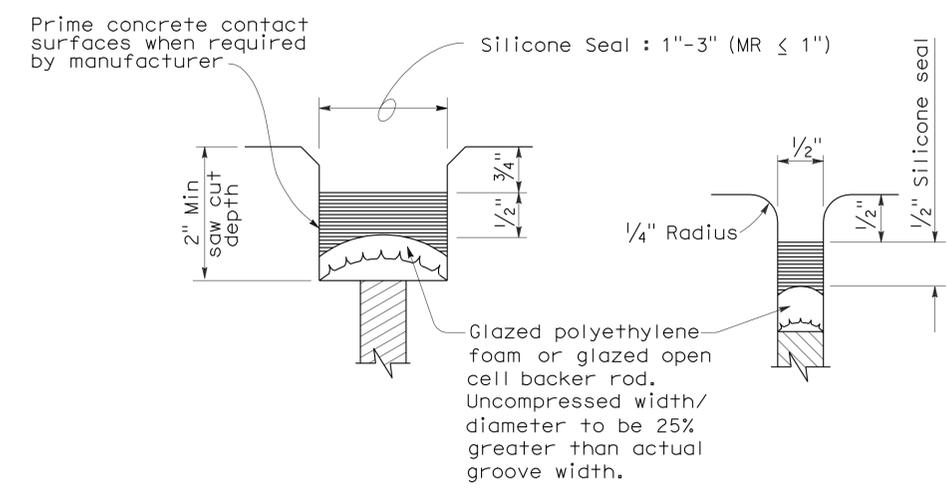
DETAIL A

- 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

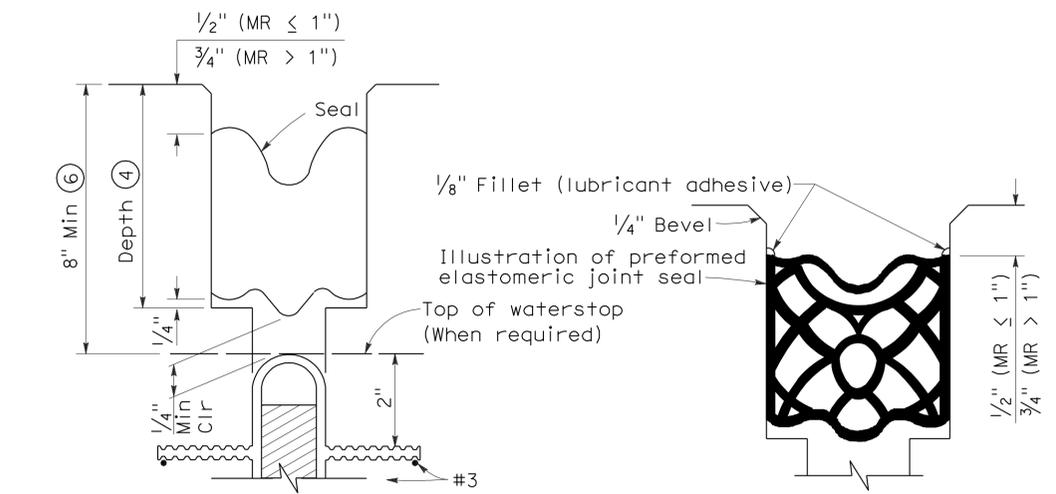


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

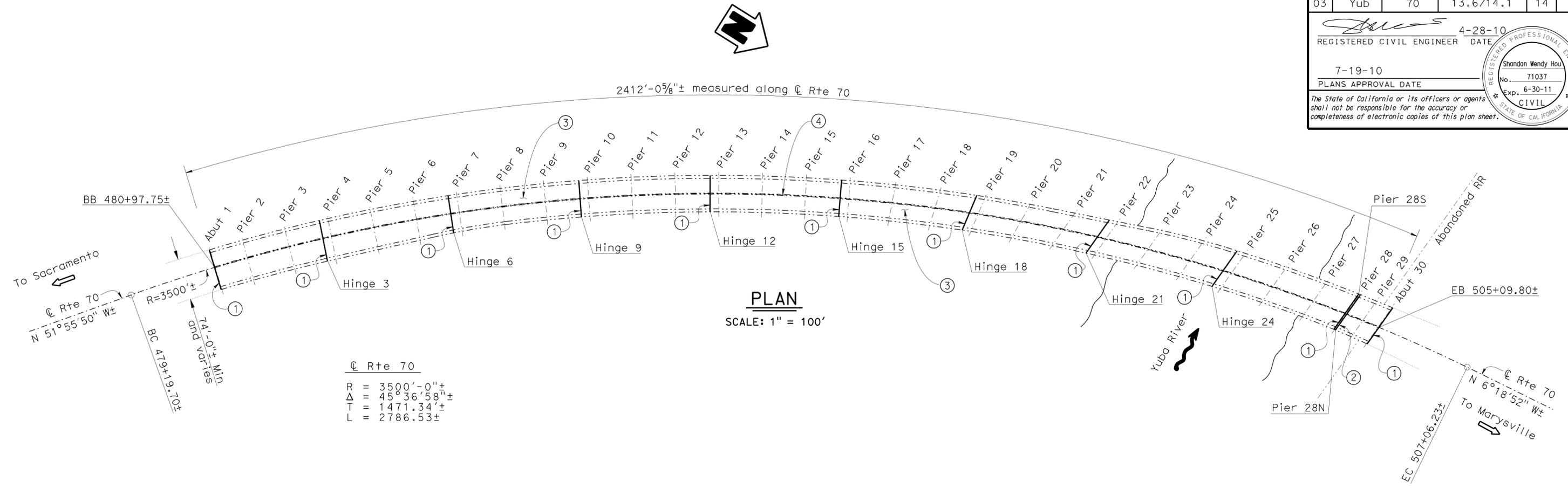
Movement Rating ≤ 2"

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.

REVISED STANDARD PLAN RSP B6-21

2006 REVISED STANDARD PLAN RSP B6-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Yub	70	13.6/14.1	14	18
			4-28-10	REGISTERED CIVIL ENGINEER DATE	
			7-19-10	PLANS APPROVAL DATE	

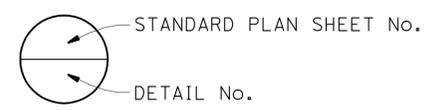


INDEX TO PLANS

SHEET No.	TITLE
1.	GENERAL PLAN
2.	STRUCTURE PLAN No. 1
3.	STRUCTURE PLAN No. 2
4.	JOINT SEAL DETAILS No. 1
5.	JOINT SEAL DETAILS No. 2

STANDARD PLANS DATED MAY 2006

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")



QUANTITIES:

REMOVE ASPHALT CONCRETE SURFACING	158,000	SQFT
REMOVE CONCRETE	48	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	158,000	SQFT
CLEAN EXPANSION JOINT	820	LF
CONCRETE (RAPID SETTING)	48	CF
FURNISH POLYESTER CONCRETE OVERLAY	9,880	CF
PLACE POLYESTER CONCRETE OVERLAY	158,000	SQFT
PUBLIC SAFETY PLAN	LUMP	SUM
EXPANSION DAM	760	CF
JOINT SEAL (MR 1")	299	LF
JOINT SEAL (MR 2")	529	LF

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

NOTES:

- ① - Remove existing joint seal
- Clean expansion joint
- Reconstruct concrete expansion dam, sidewalks and median barrier
- Install new joint seal
- ② - Clean expansion joint
- Reconstruct concrete expansion dam, sidewalks and median barrier
- Install new joint seal
- ③ Remove asphalt concrete overlay.
Place 3/4" min polyester concrete overlay.
- ④ Replace existing glare screen, see Road Plans "CONSTRUCTION DETAIL C-1" sheet.

LEGEND:

- Indicates joint seal removal. Clean and place new joint seal. See "JOINT SEAL DETAILS NO. 1" and "JOINT SEAL DETAILS No. 2" sheets.
- Indicates existing structure.

DECK REHABILITATION

YUBA RIVER BRIDGE & OVERHEAD

GENERAL PLAN

Allan Jaurzen
DESIGN ENGINEER

DESIGN	BY Wendy Hou	CHECKED David Soon
DETAILS	BY Gerald Dickerson	CHECKED David Soon
QUANTITIES	BY Buster Hansen	CHECKED Jongkoo Jeon

LAYOUT	BY Wendy Hou	CHECKED David Soon
SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 7

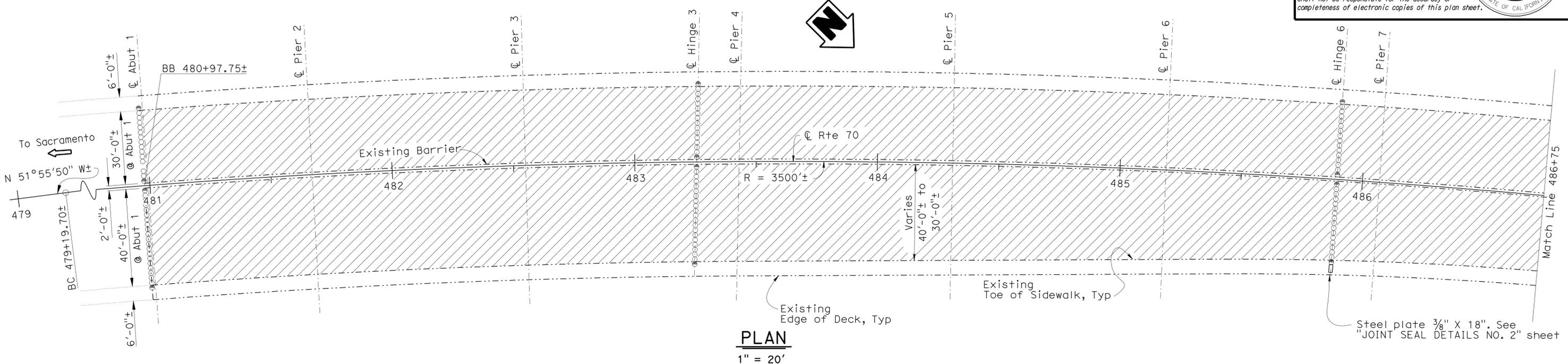
BRIDGE NO.	16-0034
POST MILE	13.6

REVISION DATES	5-5-09	9-23-09	10-15-09	10-22-09	11-30-09	4-19-10	4-20-10	4-27-10
SHEET	1							
OF	5							

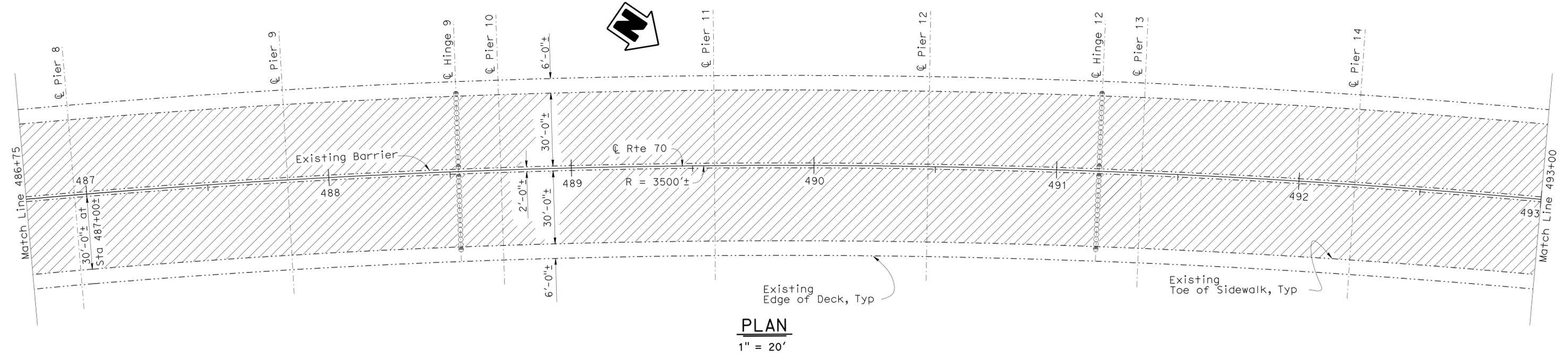
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Yub	70	13.6/14.1	15	18

4-28-10
 REGISTERED CIVIL ENGINEER DATE
 7-19-10
 PLANS APPROVAL DATE
 Shandon Wendy Hou
 No. 71037
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA
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- LEGEND:**
- Indicates existing structure.
 - oooooo - Remove existing joint seal
 - Reconstruct expansion dam
 - Install new joint seal
 - Indicates reconstruct portion of sidewalk and median barrier see "JOINT SEAL DETAILS NO. 2" sheet
 - ▨ Indicates limits of remove AC overlay, repair concrete deck and place 3/4" min polyester concrete overlay.



PLAN
1" = 20'



PLAN
1" = 20'

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

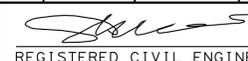
DESIGN BY Wendy Hou DETAILS BY G. Dickerson/ Y. Feng QUANTITIES BY Buster Hansen				CHECKED BY David Soon CHECKED BY David Soon CHECKED BY Jongkoo Jeon		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7		BRIDGE NO. 16-0034 POST MILE 13.6		DECK REHABILITATION YUBA RIVER BRIDGE & OVERHEAD STRUCTURE PLAN NO. 1							
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)										ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		CU 03 EA 0E0801		DISREGARD PRINTS BEARING EARLIER REVISION DATES			
										REVISION DATES		SHEET 2 OF 5							

USERNAME => hrm001.in DATE PLOTTED => 21-JUL-2010 TIME PLOTTED => 07:35

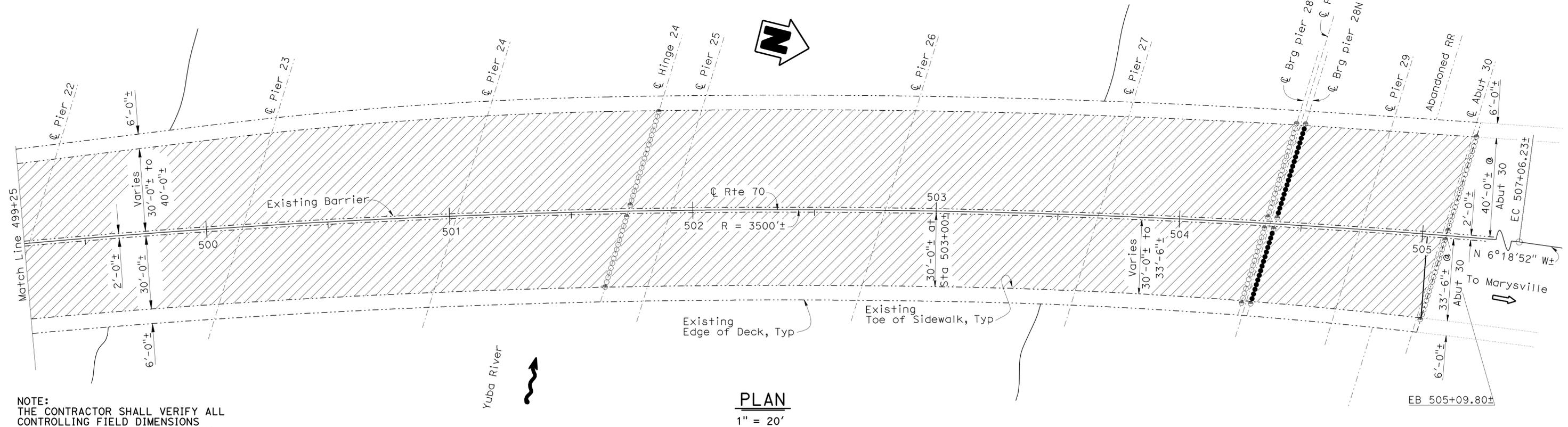
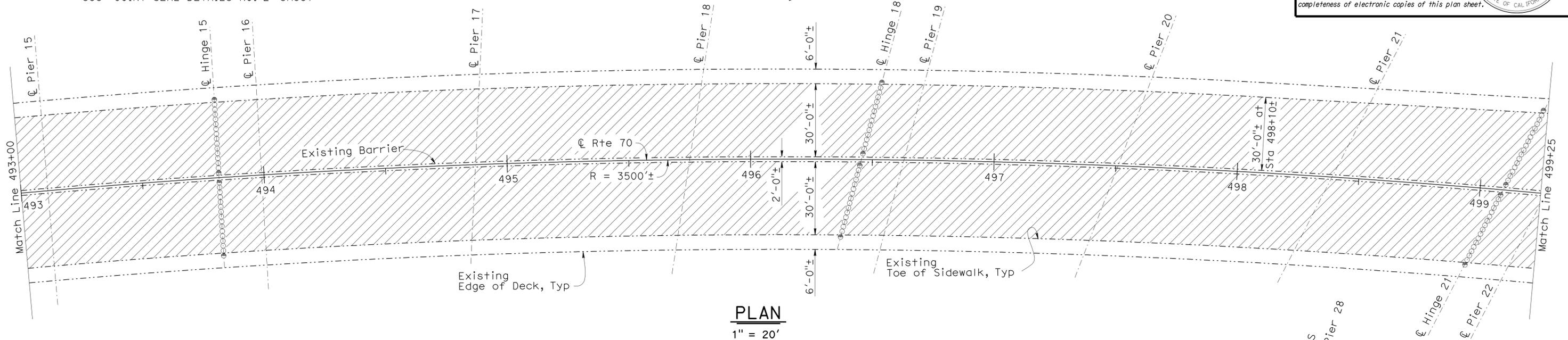
LEGEND:

- Indicates existing structure.
- oooooo - Remove existing joint seal
- Reconstruct expansion dam,
- Install new joint seal
- Indicates reconstruct portion of sidewalk and median barrier see "JOINT SEAL DETAILS NO. 2" sheet
-  Indicates limits of remove AC overlay, repair concrete deck and place 3/4" min polyester concrete overlay.
- Indicates place new Joint Seal, see "JOINT SEAL DETAILS NO. 1" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Yub	70	13.6/14.1	16	18

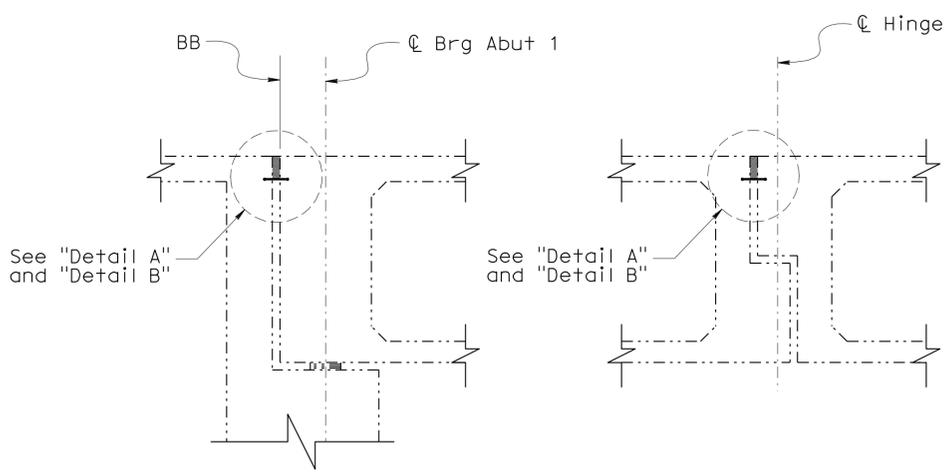
 4-28-10
 REGISTERED CIVIL ENGINEER DATE
 7-19-10
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Shandon Wendy Hou
 No. 71037
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA



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

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION				DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7		DECK REHABILITATION YUBA RIVER BRIDGE & OVERHEAD STRUCTURE PLAN NO. 2															
DESIGN	BY Wendy Hou	CHECKED David Soon	BRIDGE NO.	16-0034																	
DETAILS	BY G. Dickerson/ Y. Feng	CHECKED David Soon	POST MILE	13.6																	
QUANTITIES	BY Buster Hansen	CHECKED Jongkoo Jeon																			
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 03 EA 0E0801		<table border="1" style="font-size: 8px;"> <tr> <th colspan="7">REVISION DATES</th> </tr> <tr> <td>5-1-09</td> <td>9-21-09</td> <td>9-23-09</td> <td>10-18-09</td> <td>4-28-10</td> <td>4-27-10</td> <td></td> </tr> </table>	REVISION DATES							5-1-09	9-21-09	9-23-09	10-18-09	4-28-10	4-27-10	
REVISION DATES																					
5-1-09	9-21-09	9-23-09	10-18-09	4-28-10	4-27-10																
							SHEET 3 OF 5														

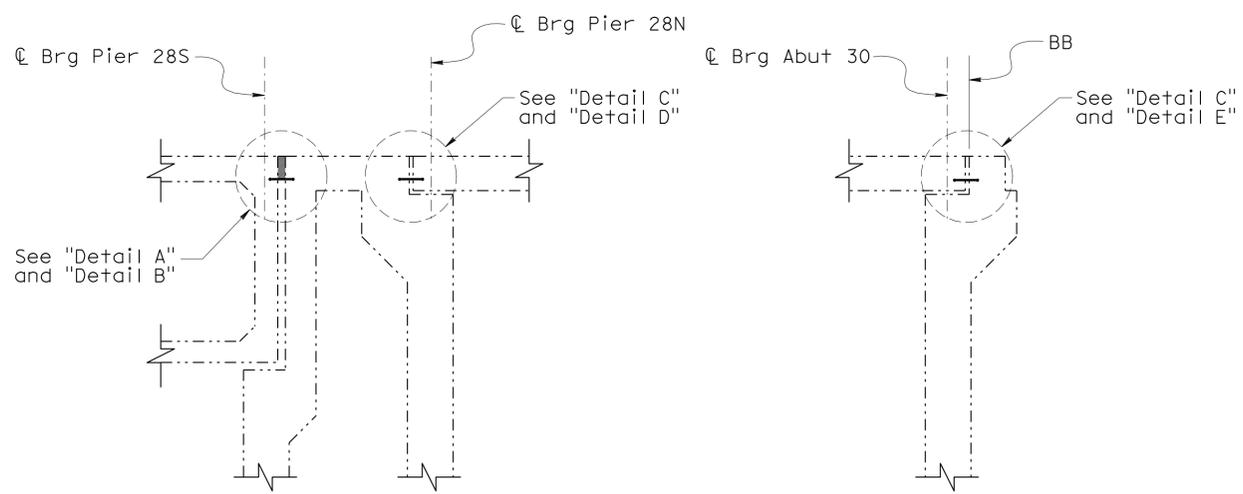


EXISTING JOINT SEAL AT ABUTMENT 1

1/2" = 1'-0"

EXISTING HINGE DETAIL (Typ)

1/2" = 1'-0"



EXISTING PIER 28 DETAIL

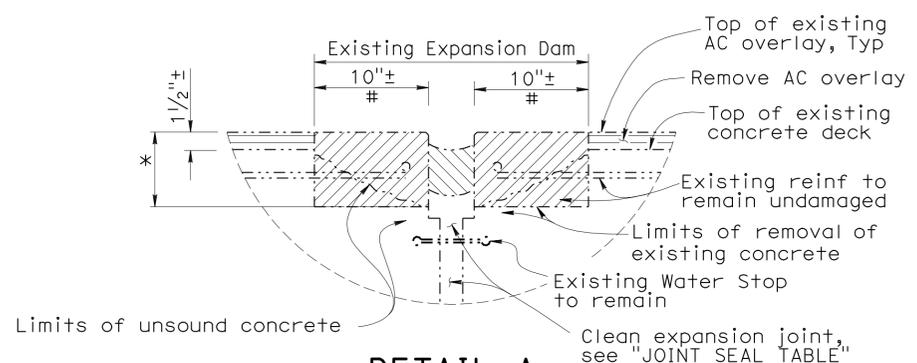
1/2" = 1'-0"

EXISTING ABUT 30 DETAIL

1/2" = 1'-0"

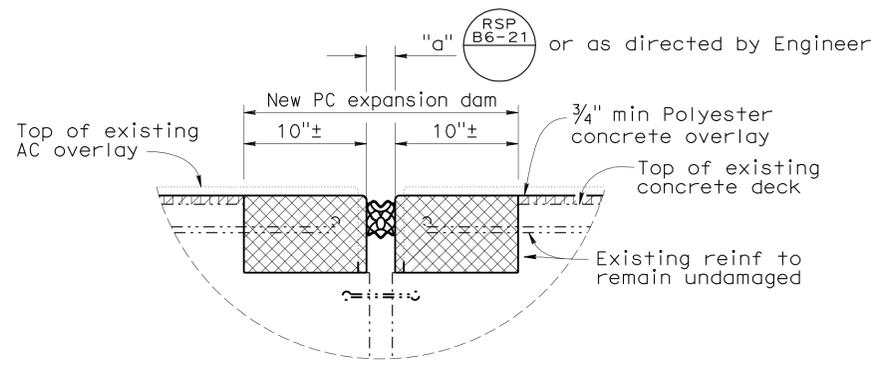
LEGEND:

- Indicates existing structure.
- ▨ Indicates existing AC overlay removal.
- ▧ Indicates limits of remove existing concrete. Engineer to determine final limits.
- ▩ Indicates existing joint seal removal.
- Indicates polyester concrete expansion dam.
- Indicates 3/4" min polyester concrete overlay.
- ⊗ Indicates joint seal (RSP B6-21)
- # Widths may vary. Engineer to determine final sawcut.



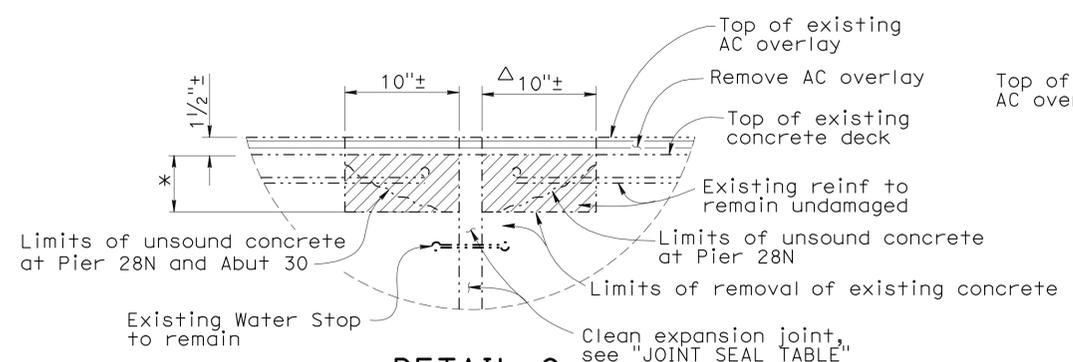
DETAIL A REMOVAL DETAIL (Typ)

1/2" = 1'-0" * See "JOINT SEAL TABLE"



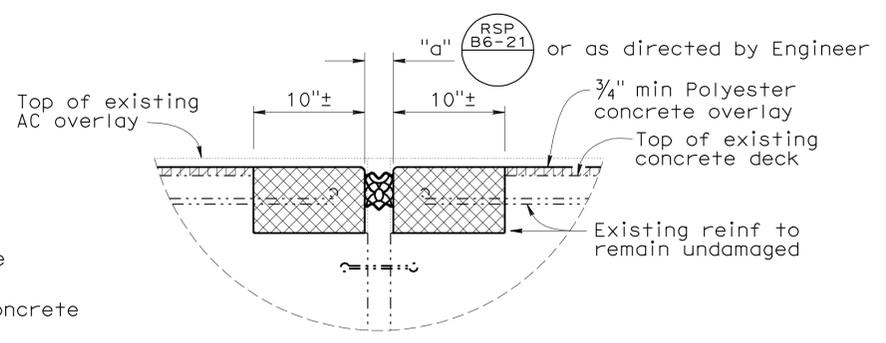
DETAIL B RECONSTRUCTION DETAIL

1/2" = 1'-0" (RSP B6-21)



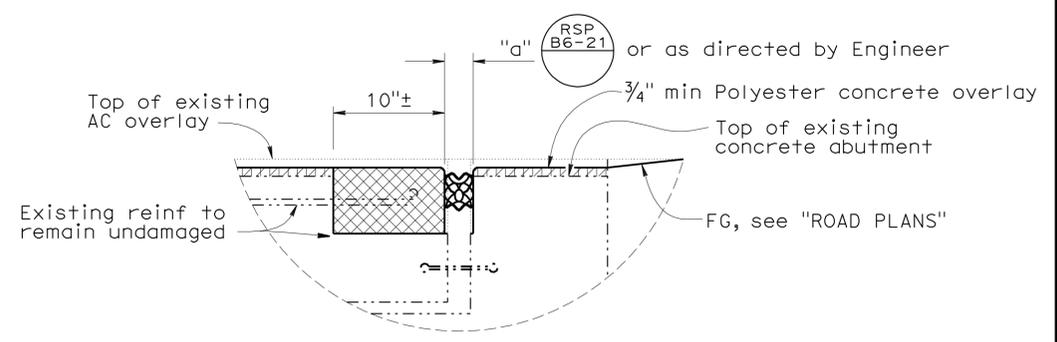
DETAIL C REMOVAL DETAIL (PIER 28N & ABUT 30)

1/2" = 1'-0" * See "Joint Seal Table" Δ Pier 28N only



DETAIL D RECONSTRUCTION DETAIL (PIER 28N)

1/2" = 1'-0" (RSP B6-21)



DETAIL E RECONSTRUCTION DETAIL (ABUT 30)

1/2" = 1'-0" (RSP B6-21)

LOCATION	STATION	APPROX LENGTH (ft)		MIN. "MR" (in.)	* Approx Depth Remove Unsound Conc	Depth to Clean Joint (See Note)
		West Side	East Side			
Abut 1	480+97.75±	31	41	1	12"	14"
Hinge 3	483+25.50±	31	41	2	8"	10"
Hinge 6	485+89.50±	31	33	2	8"	10"
Hinge 9	488+53.50±	31	31	2	8"	10"
Hinge 12	491+17.50±	31	31	2	8"	10"
Hinge 15	493+81.50±	31	31	2	8"	10"
Hinge 18	496+45.50±	32	32	2	8"	10"
Hinge 21	499+09.50±	35	33	2	8"	10"
Hinge 24	501+73.50±	43	32	2	8"	10"
Pier 28S	504+35.50±	42	33	1	8"	10"
Pier 28N	504+39.25±	42	33	1	5"	10"
Abut 30	505+09.80±	42	35	1	5"	10"

Note:
 If water stop is undamaged, then clean only to water stop.

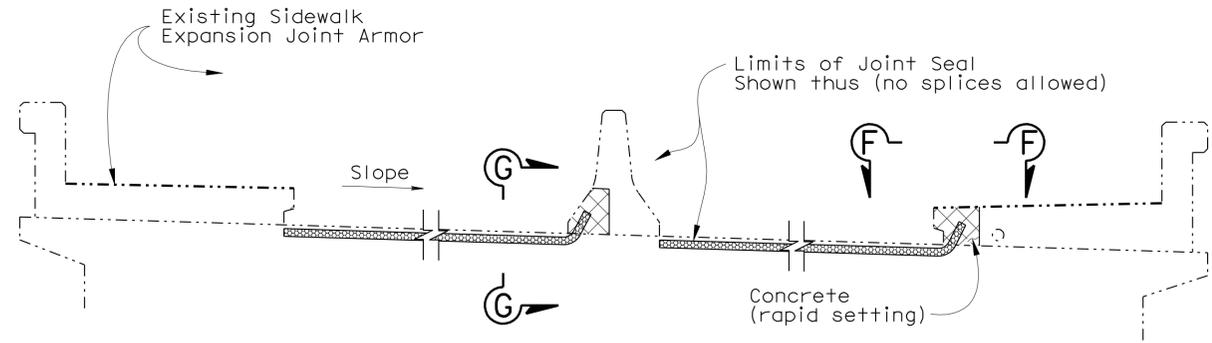
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN BY W. Hou / R. Deo CHECKED David Soon DETAILS BY G. Dickerson / Y. Feng CHECKED David Soon QUANTITIES BY Buster Hansen CHECKED Jongkoo Jeon	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO. 16-0034	DECK REHABILITATION YUBA RIVER BRIDGE & OVERHEAD JOINT SEAL DETAILS NO. 1
			POST MILE 13.6	
			DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 10-27-09, 4-27-10, 10-18-09, 10-27-09, 11-30-09, 2-24-10, 2-26-10, 4-21-10, 4-28-10	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 03 EA 0E0801 FILE => 16-0034-q-jntdt101.dgn

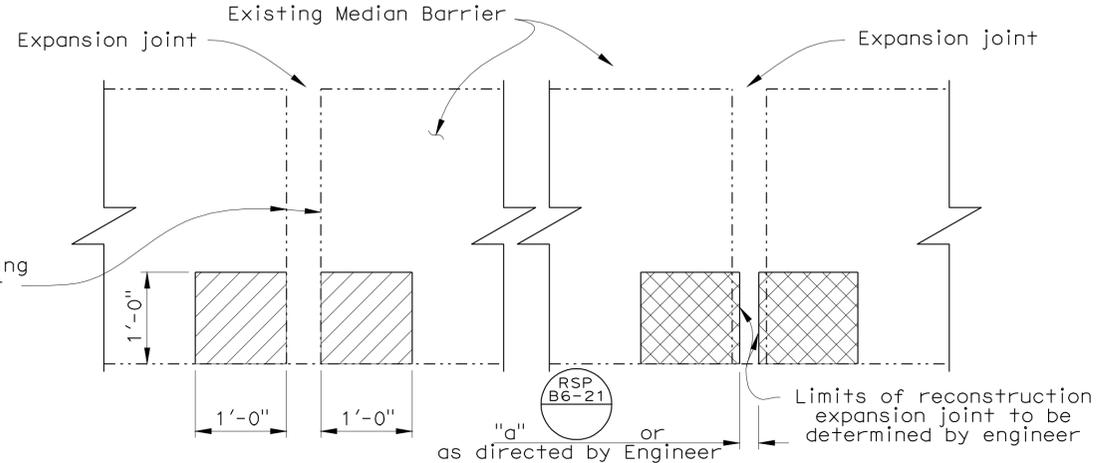
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Yub	70	13.6/14.1	18	18

REGISTERED CIVIL ENGINEER DATE 4-28-10
 Shandon Wendy Hou No. 71037 Exp. 6-30-11
 PLANS APPROVAL DATE 7-19-10
 REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA
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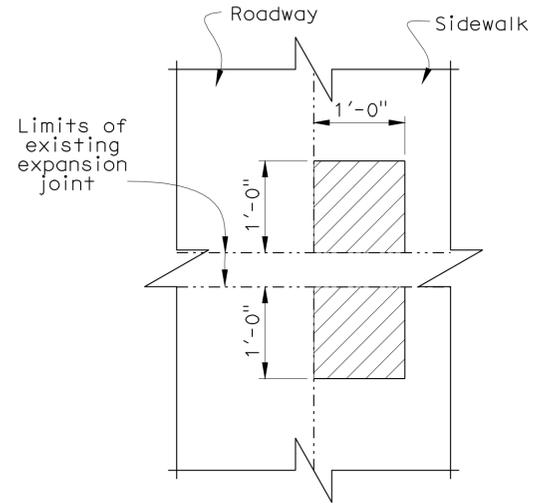
- LEGEND:**
- Indicates existing structure.
 - [Hatched Box] Indicates limits of existing concrete removal.
 - [Cross-hatched Box] Indicates concrete (rapid setting).
 - [Dashed Line] Indicates joint seal.

TYPICAL SECTION
1/2" = 1'-0"

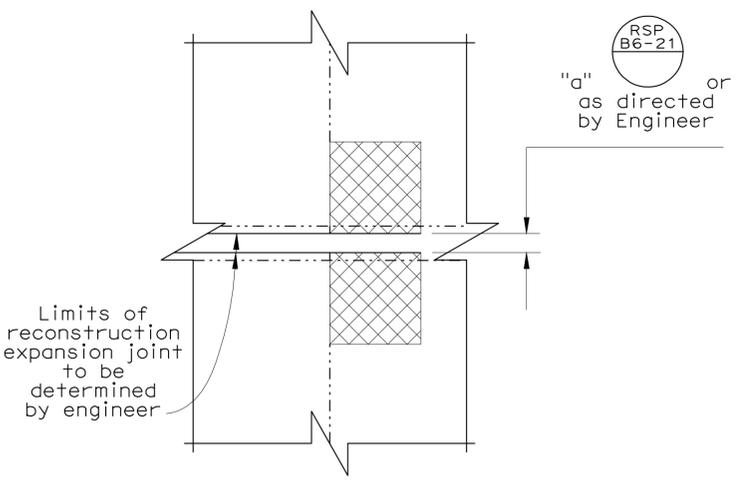


SECTION G-G
MEDIAN BARRIER RECONSTRUCTION
1" = 1'-0"

- 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:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
 - Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
 - For details not shown see RSP B6-21



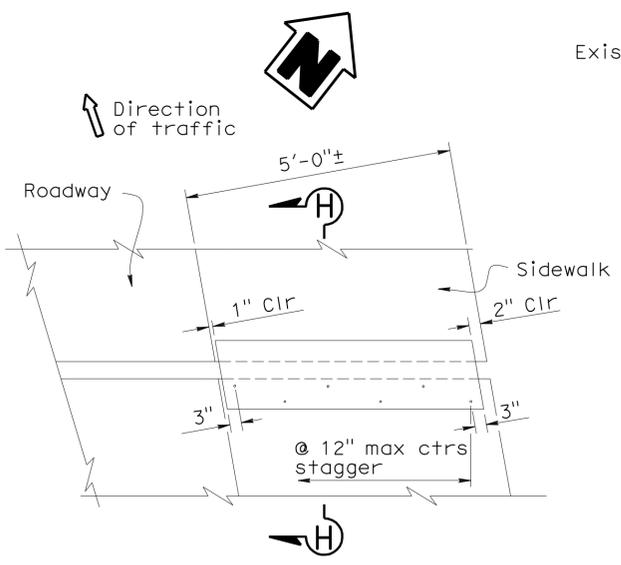
REMOVAL DETAIL



RECONSTRUCTION DETAIL

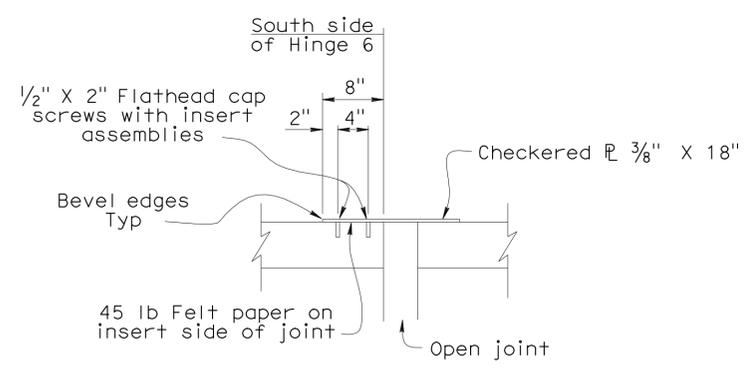
SECTION F-F
SIDEWALK RECONSTRUCTION
1" = 1'-0"

Exist reinforcement to remain undamaged



PLAN
1/2" = 1'-0"

SIDEWALK EXPANSION JOINT ARMOR @ HINGE 6 (EASTSIDE ONLY)
(Galvanize after fabrication)

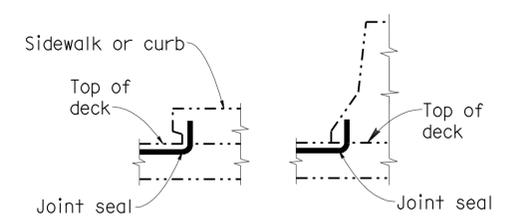


SECTION H-H
1" = 1'-0"

NOTE:
Place insert to miss utilities when present in sidewalk

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

The following note applies to **JOINT SEAL TYPE A:**
Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches curb or rail joint. For details not shown see RSP B6-21



JOINT SEAL AT LOW SIDE OF DECK

Details shown for illustration purposes only. For use only where deck joint matches the barrier rail joint. NO SCALE

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	DESIGN	BY Wendy Hou	CHECKED David Soon	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	16-0034	DECK REHABILITATION YUBA RIVER BRIDGE & OVERHEAD JOINT SEAL DETAILS NO. 2	
	DETAILS	BY G. Dickerson/ A. Valdez	CHECKED David Soon			POST MILE	13.6		
	QUANTITIES	BY Buster Hansen	CHECKED Jongkoo Jeon						
				CU 03	EA 0E0801	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 10-14-09 10-19-09 10-28-09 11-24-09 11-30-09 2-24-10 2-28-10 4-26-10 4-27-10	SHEET 5 OF 5

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