

INDEX OF PLANS

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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 MODOC COUNTY AT VARIOUS LOCATIONS

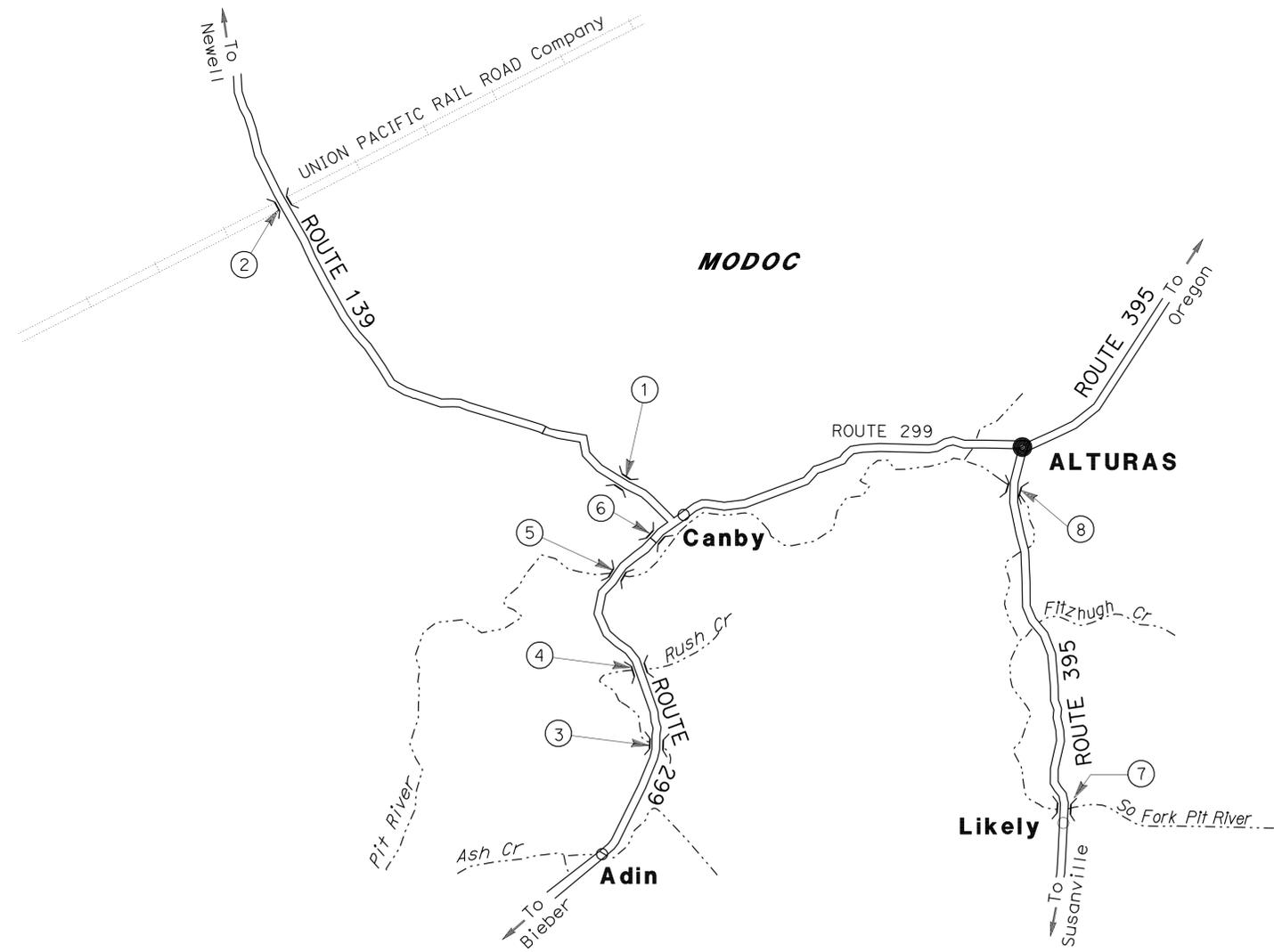
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	139,299 395	Var	1	23





LOCATION MAP



LOCATIONS OF CONSTRUCTION

Loc	Co-Rte-PM	BRIDGE DISCRPTION
①	Mod-139-PM R2.2	Br No. 03-0011, HOWARDS GULCH
②	Mod-139-PM 30.6	Br No. 03-0033, PEREZ OH
③	Mod-299-PM 6.3	Br No. 03-0003, RUSH CREEK
④	Mod-299-PM 8.1	Br No. 03-0004, RUSH CREEK
⑤	Mod-299-PM 17.9	Br No. 03-0005, PIT RIVER
⑥	Mod-299-PM 37.8	Br No. 03-0008, RATTLESNAKE CREEK
⑦	Mod-395-PM 3.7	Br No. 03-0019, SOUTH FORK PIT RIVER
⑧	Mod-395-PM 21.9	Br No. 03-0023, NORTH FORK PIT RIVER

PROJECT MANAGER
LANCE BROWN
 DESIGN ENGINEER
LANCE BROWN

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

NO SCALE



USERNAME => s123119
 DGN FILE => 22E280ab001.dgn

Denise Fuzere 12-09-10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER



December 29, 2010
 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.	02-2E2804
PROJECT ID	020000580

DATE PLOTTED => 17-FEB-2011
 TIME PLOTTED => 11:18

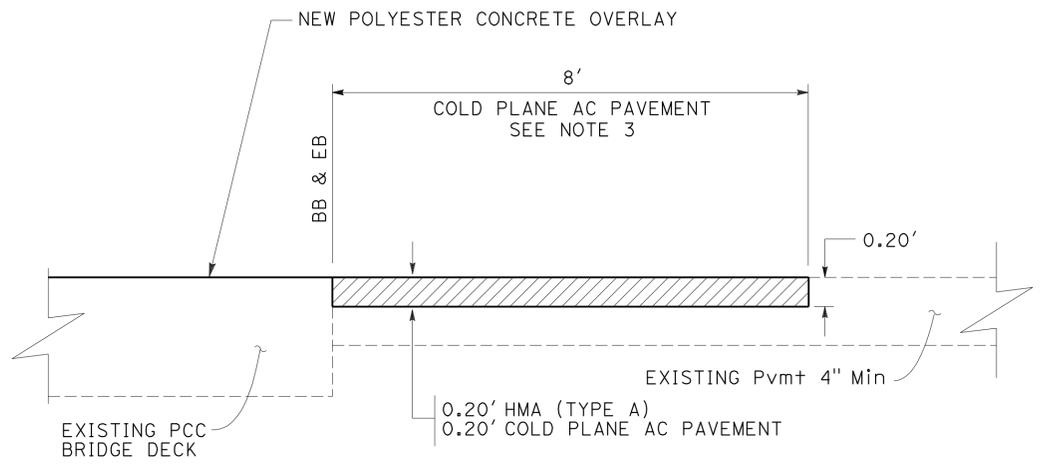
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	139,299 395	Var	2	23
<i>Denise Fuzere</i> REGISTERED CIVIL ENGINEER			12-09-10 DATE		
12-29-10 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS 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. SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. COLD PLANE AC PAVEMENT FULL WIDTH OF PAVED ROADWAY.
4. SEE GENERAL PLANS FOR DETAILS NOT SHOWN.
5. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.
6. EXISTING BRIDGE JOINTS ARE NOT SHOWN ON THIS PLAN.

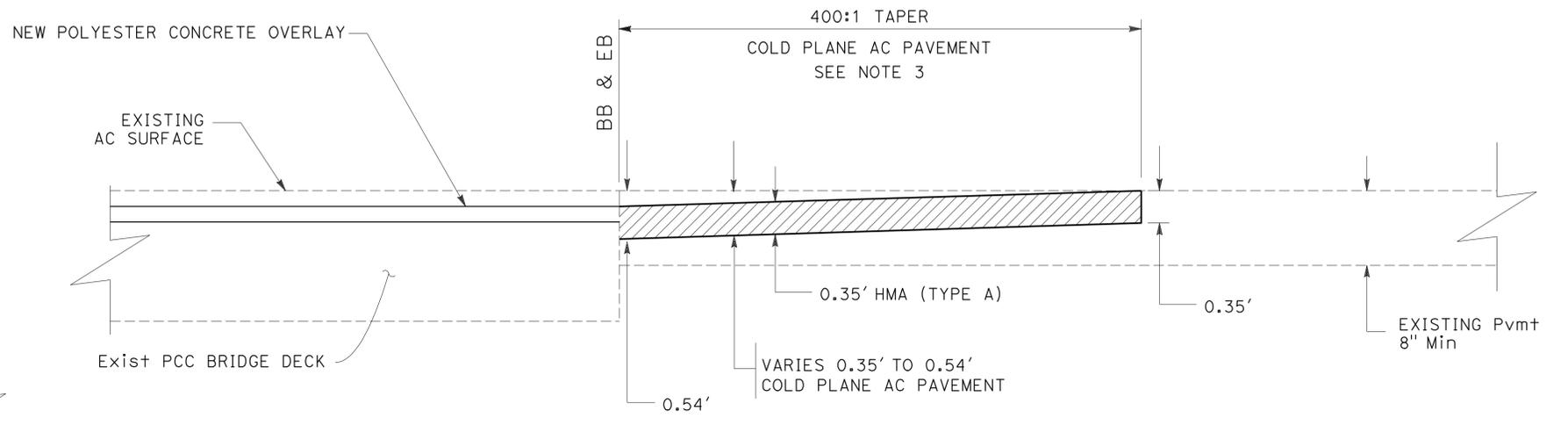
LEGEND:

HOT MIX ASPHALT (TYPE A)



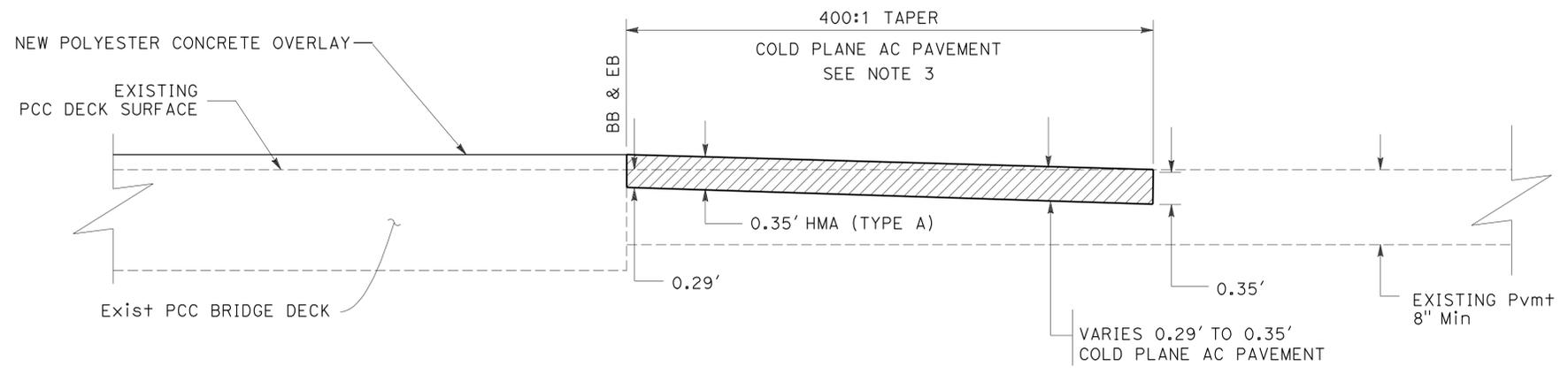
MODIFY PAVEMENT TYPICAL

Loc 8 - PM 21.9 Br No. 03-0023, NORTH FORK PIT RIVER



MODIFY PAVEMENT TYPICAL

- Loc 1 - PM R2.2 Br No. 03-0011, HOWARD'S GULCH
- Loc 3 - PM 6.3 Br No. 03-0003, RUSH CREEK
- Loc 4 - PM 8.1 Br No. 03-0004, RUSH CREEK
- Loc 5 - PM 17.9 Br No. 03-0005, PIT RIVER
- Loc 7 - PM 3.7 Br No. 03-0019, SOUTH FORK PIT RIVER



MODIFY PAVEMENT TYPICAL

- Loc 2 - PM 30.6 Br No. 03-0033, PEREZ OH
- Loc 6 - PM 37.8 Br No. 03-0008, RATTLESNAKE CREEK

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 LANCE BROWN
 DENISE FUZERE
 KARLIE J. SMITH
 REVISOR BY DATE REVISOR BY DATE
 CALCULATED/DESIGNED BY CHECKED BY
 USERNAME => s123119
 DGN FILE => 22E280ga001.dgn

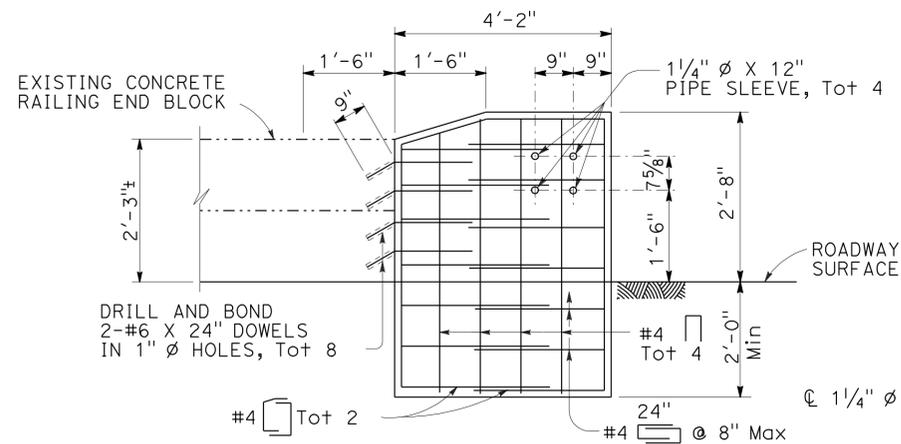
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	139,299 395	Var	3	23

<i>Danise Saizere</i> REGISTERED CIVIL ENGINEER DATE 12-09-10	
12-29-10 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.

NOTES:

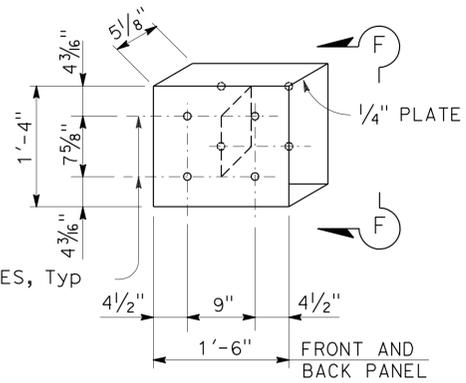
- FOR DETAILS NOT SHOWN, SEE STANDARD PLANS.
- DEPENDENT DIMENSIONS WILL BE VERIFIED IN THE FIELD BEFORE FABRICATING ANY END CONNECTION TO CONFORM WITH EXISTING PAVED CONDITIONS.
- WHEN END SECTION IS CALLED FOR, MODIFY TYPICAL TERMINAL SECTION TO FIT. SEE DETAIL E.
- FOR WB CONNECTION, SEE STANDARD PLANS "RSP A77J4 METAL BEAM GUARD RAILING TRANSITION RAILING (TYPE WB)".
- ALL PLATES AND BOLTS ARE GALVANIZED.
- TAPER THE TOP OF THE END OF THE BRIDGE RAILING AT 4:1 TO MATCH THE TOP ELEVATION OF THE THRIE BEAM RAIL ELEMENT.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.



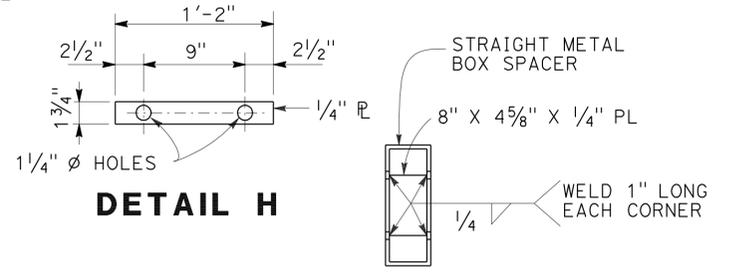
ELEVATION
EXISTING BARRIER RAILING TYPE 9 ALTERNATIVE 5

LEGEND:

- DIRECTION OF TRAVEL
- FLOW DIRECTION

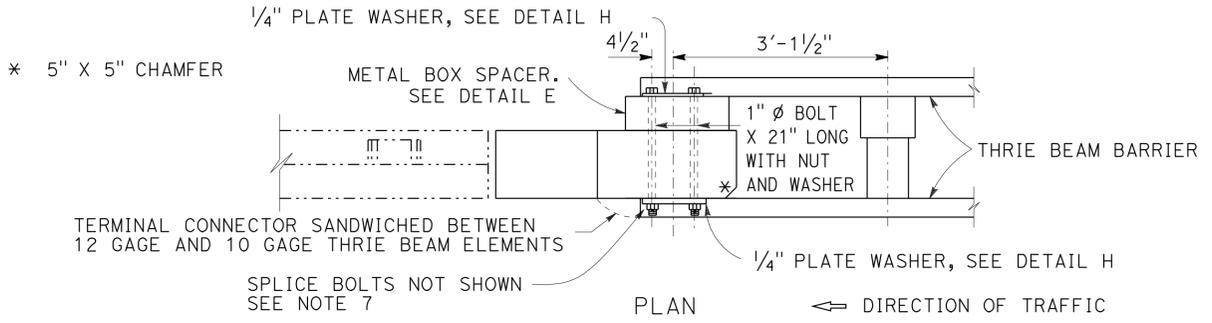


DETAIL E

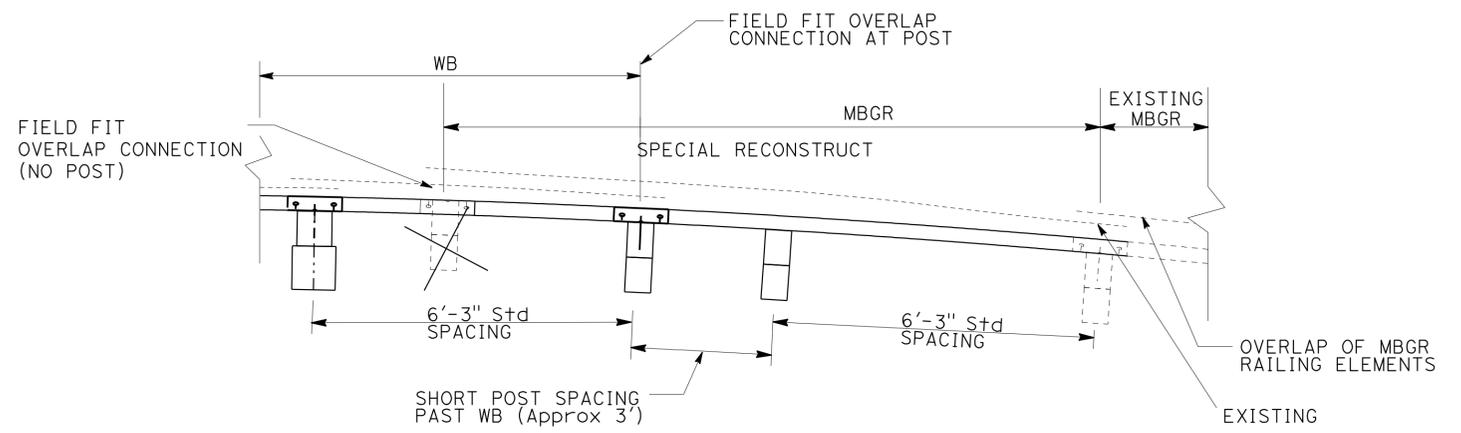


DETAIL H

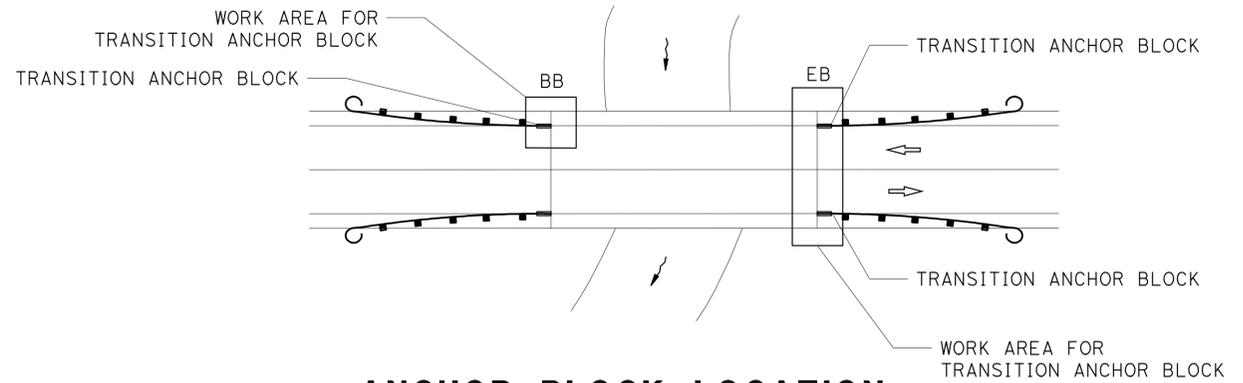
VIEW F-F



PLAN

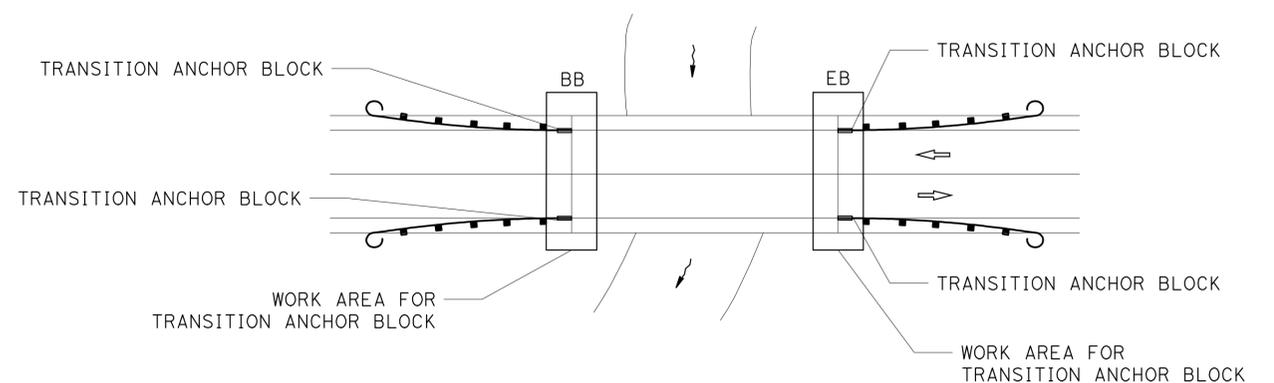


MBGR OVERLAP DETAIL



ANCHOR BLOCK LOCATION

LOC 7 - PM 3.7 Br No. 03-0019, SOUTH FORK PIT RIVER



ANCHOR BLOCK LOCATION

- LOC 1 - PM R2.2 Br No. 03-0011, HOWARD'S GULCH
- LOC 3 - PM 6.3 Br No. 03-0003, RUSH CREEK
- LOC 4 - PM 8.1 Br No. 03-0004, RUSH CREEK
- LOC 5 - PM 17.9 Br No. 03-0005, PIT RIVER

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 FUNCTIONAL SUPERVISOR LANCE BROWN
 CALCULATED/DESIGNED BY CHECKED BY
 DENISE FUZERE KARLIE J. SMITH
 REVISED BY DATE REVISED
 PROJECT NUMBER & PHASE 0200005801



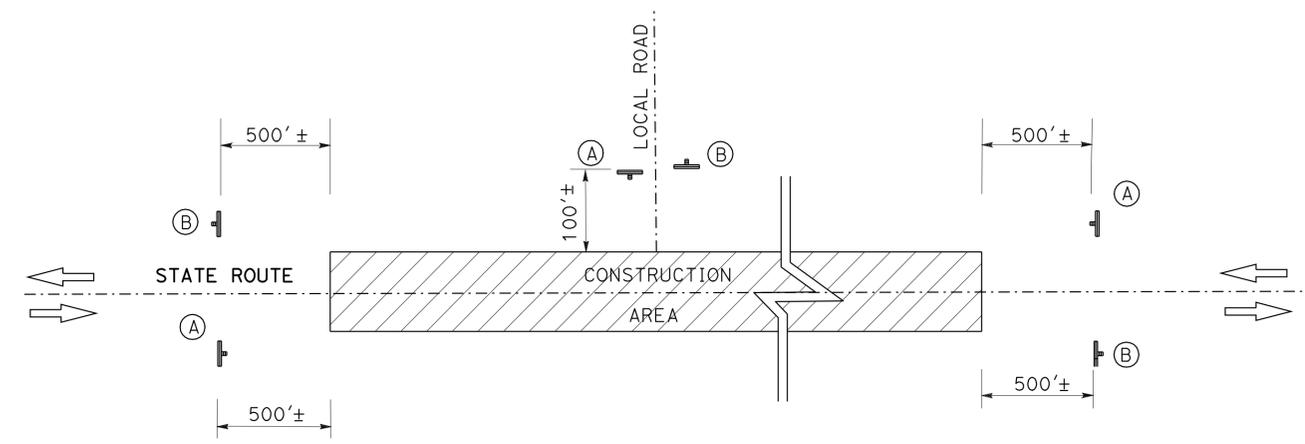
LAST REVISION DATE PLOTTED => 17-FEB-2011
 12-23-10 TIME PLOTTED => 11:18

NOTES:

1. EXACT LOCATION OF ALL SIGNS TO BE DETERMINED BY THE ENGINEER.
2. C40 (CA) SHALL BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.
3. CALIFORNIA CODES ARE DESIGNATED BY (CA), OTHERWISE FEDERAL CODES ARE SHOWN.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY IDENTIFIED.

LEGEND:

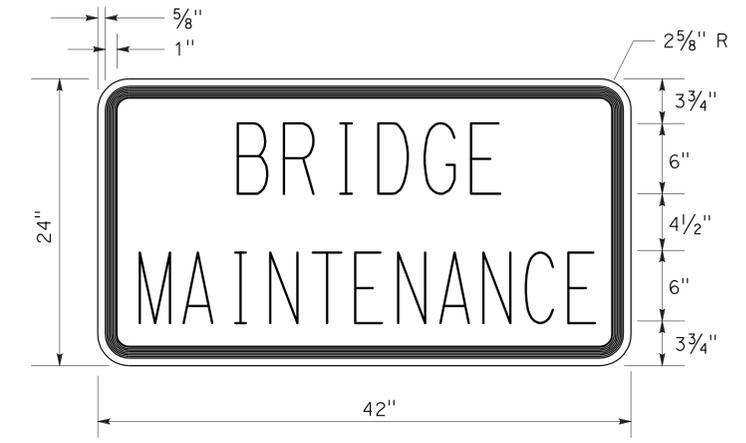
- ⊥ ONE POST STATIONARY MOUNTED SIGN
- ← DIRECTION OF TRAFFIC



CONSTRUCTION AREA SIGNS

CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

SIGN No.	TYPE	PANEL SIZE INCHES	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
Ⓐ	W20-1 C23B(CA)	48" x 48" 42" x 24"	ROAD WORK AHEAD BRIDGE MAINTENANCE	1 - 4" x 6"	25
Ⓑ	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	25



C23B(CA) SIGN PANEL DETAIL

ROAD CONNECTIONS

Co-Rte	PM	LOCATION
Mod-139	30.41	CLEAR LAKE Rd Rt and Lt
Mod-299	6.13	USFS Rd (40N34) Rt and Lt
	18.07	Co Rd 84 Lt
Mod-395	21.83	HENDERSON St Lt, WATER St Rt
	21.92	CARLOS St Rt and Lt

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans MAINTENANCE
 FUNCTIONAL SUPERVISOR LANCE BROWN
 CALCULATED/DESIGNED BY DENISE FUZERE
 CHECKED BY KARLIE J. SMITH
 REVISED BY DATE REVISION
 USERNAME => s123119
 DGN FILE => 22E2801a001.dgn

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	139,299 395	Var	5	23

Denise Fuzere 12-09-10
 REGISTERED CIVIL ENGINEER DATE
 12-29-10
 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.

NOTES:

1. TRAFFIC STRIPING QUANTITIES INCLUDE EACH BRIDGE AND 150' EACH SIDE OF EACH BRIDGE.
2. REPLACE EXISTING TRAFFIC STRIPING TO MATCH EXISTING STRIPING PATTERN.
3. REMOVE THERMOPLASTIC TRAFFIC STRIPE APPLIES ONLY TO STRIPE LOCATED ON THE BRIDGE DECK.

ROADWAY QUANTITIES SUMMARY

Loc	Co	Rte	PM	BRIDGE No.	BRIDGE NAME	BRIDGE APPROACH AND DEPARTURE PAVEMENT			THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				REMOVE THERMOPLASTIC TRAFFIC STRIPE LF	
						COLD PLANE AC PAVEMENT SQYD	HMA (TYPE A) TON	TACK COAT TON	DETAIL 5	DETAIL 11	DETAIL 21	DETAIL 27B		
									LF	LF	LF	LF		
1	Mod	139	R2.2	03-0011	HOWARDS GULCH	541	128	0.2	373				746	
2	Mod	139	30.6	03-0033	PEREZ OH	171	41	0.1			394	788	394	
3	Mod	299	6.3	03-0003	RUSH CREEK	541	128	0.2			440	880		
4	Mod	299	8.1	03-0004	RUSH CREEK	541	128	0.2			400	800		
5	Mod	299	17.9	03-0005	PIT RIVER	541	128	0.2			372	744		
6	Mod	299	37.8	03-0008	RATTLESNAKE CREEK	214	51	0.1	605			1210	605	
7	Mod	395	3.7	03-0019	SOUTH FORK PIT RIVER	507	120	0.2	392			784		
8	Mod	395	21.9	03-0023	NORTH FORK PIT RIVER	114	27	0.1		424	362			
SUBTOTAL									1370	424	1968	5952		
TOTAL						3170	751	1.3			9714		999	

MBGR QUANTITIES

Loc	Co	Rte	PM	BRIDGE No.	BRIDGE NAME	BRIDGE APPROACH QUADRANT	REMOVE MBGR LF	RECONSTRUCT MBGR LF	TRANSITION RAILING (TYPE-WB) EA	ALTERNATIVE		(N) BURIED POST END ANCHOR EA	MINOR CONCRETE (MINOR STRUCTURE) CY	BB OR EB OPERATIONS (N)				LEGEND (N)
										IN-LINE TERMINAL SYSTEM EA	FLARE TERMINAL SYSTEM EA			INCREASING ORDER OF OPERATION				
														1	2	3	4	
1	Mod	139	R2.2	03-0011	HOWARDS GULCH	BB	L+	38	50	1			0.65	A(25')	B(50')	C(13')	E	25'
							R+	38	50	1			0.65	A(25')	B(50')	C(13')	E	25'
						EB	L+	38	50	1			0.65	A(25')	B(50')	C(13')	E	25'
							R+	25	50	1			0.65	A(25')	B(50')	F		0
3	Mod	299	6.3	03-0003	RUSH CREEK	BB	L+	25	38	1		0.65	A(25')	B(38')	D		0	
							R+	38	50	1	1	1	0.65	A(25')	B(50')	C(13')	E	25'
						EB	L+	38	50	1			0.65	A(25')	B(50')	C(13')	E	25'
							R+	25	50	1			0.65	A(25')	B(50')	F		0
4	Mod	299	8.1	03-0004	RUSH CREEK	BB	L+	25	50	1		0.65	A(25')	B(50')	F		0	
							R+	25	50	1			0.65	A(25')	B(50')	F		0
						EB	L+	25	50	1			0.65	A(25')	B(50')	F		0
							R+	25	50	1			0.65	A(25')	B(50')	F		0
5	Mod	299	17.9	03-0005	PIT RIVER	BB	L+	38	25	1	1	0.65	A(25')	B(25')	C(13')	E	25'	
							R+	50	12	1		1	0.65	A(25')	B(12')	C(25')	E	12'
						EB	L+	38	25	1			0.65	A(25')	B(25')	C(13')	E	25'
							R+	38	25	1		1	0.65	A(25')	B(25')	C(13')	E	25'
7	Mod	395	3.7	03-0019	SOUTH FORK PIT RIVER	BB	L+	38	25	1	1	0.65	A(25')	B(25')	C(13')	E	25'	
							R+											
						EB	L+	38	38	1	1	0.65	A(25')	B(38')	C(13')	E	25'	
							R+	38	25	1	1	0.65	A(25')	B(25')	C(13')	E	25'	
TOTAL							643	763	19	5	7	12.35						

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 DENISE FUZERE
 KARLIE J. SMITH
 LANCE BROWN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	139,299 395	Var	6	23
ART REGISTERED ELECTRICAL ENGINEER			DATE 12-05-10		
PLANS APPROVAL DATE 12-29-10					
<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>					

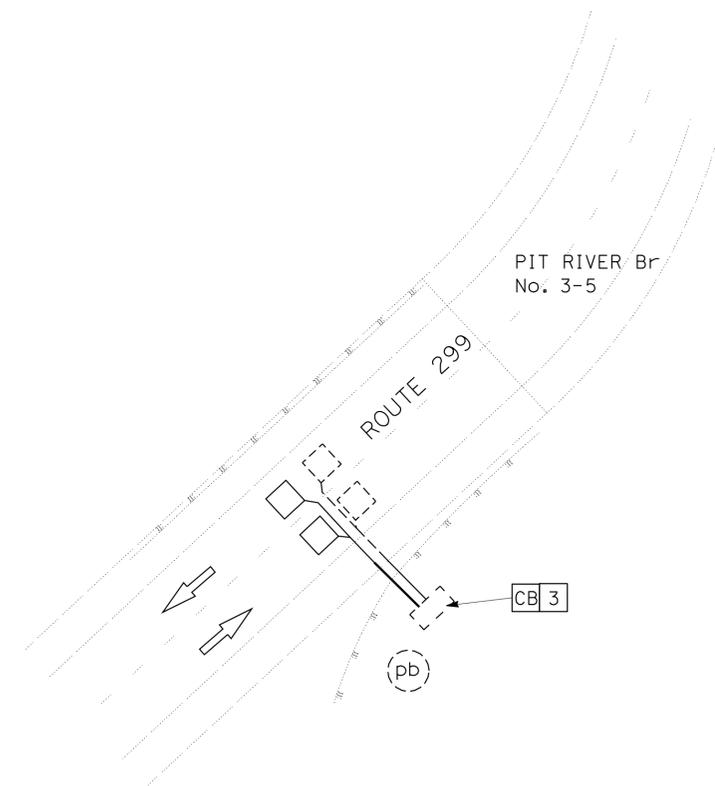


NOTES (THIS SHEET):

1. **AB** Exist LOOP DETECTORS.
2. EXACT LOCATION OF LOOP DETECTORS WILL BE DETERMINED BY THE ENGINEER.
3. **CB** COIL 10' OF LOOP CONDUCTORS IN PB.

LEGEND:

- (pb) Exist OBJECT MARKER (TYPE PB)
- ➔ DIRECTION OF TRAVEL



EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS TO BE MAINTAINED

COUNTY	ROUTE	PM	DESCRIPTION
Mod	299	38.69	HAR FLASHER FEBT AND FWBT
Mod	395	3.52	HAR FLASHER FNBT AND FSBT

TMS No. 169

TRAFFIC MONITORING STATION

NO SCALE

E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN
 FUNCTIONAL SUPERVISOR: ROB STINGER
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 ARTURO ROBLES
 KAREN CARMO
 REVISED BY: [blank]
 DATE REVISED: [blank]

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139,299 395	Var	7	23

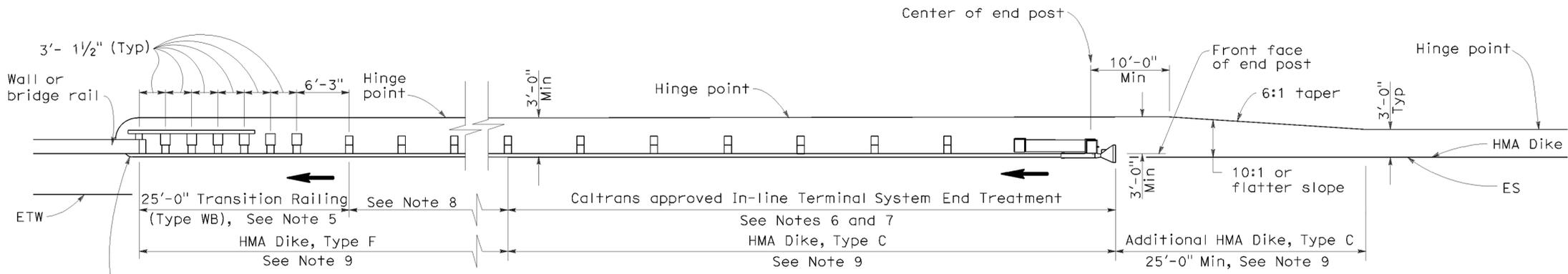
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

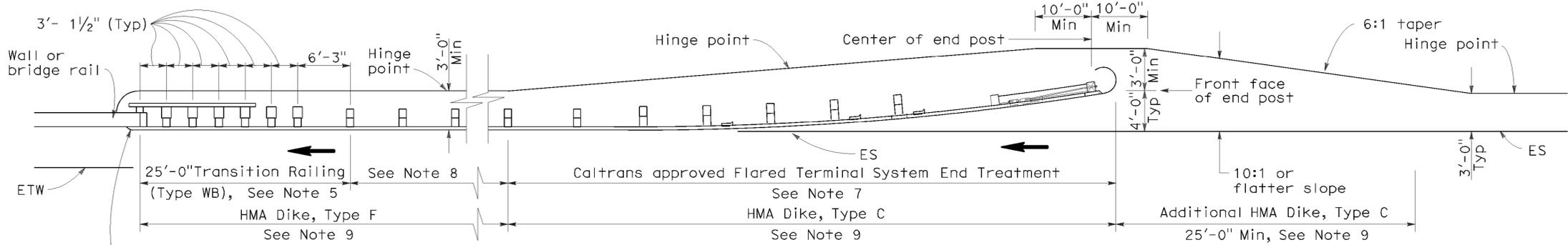
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To accompany plans dated 12-29-10



TYPE 12A LAYOUT

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



TYPE 12B LAYOUT

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

NOTES:

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

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

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP A77F1

P:\proj2\02\2E280\plans\pse\22e280va001.dgn

2006 REVISED STANDARD PLAN RSP A77F1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139,299 395	Var	8	23

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

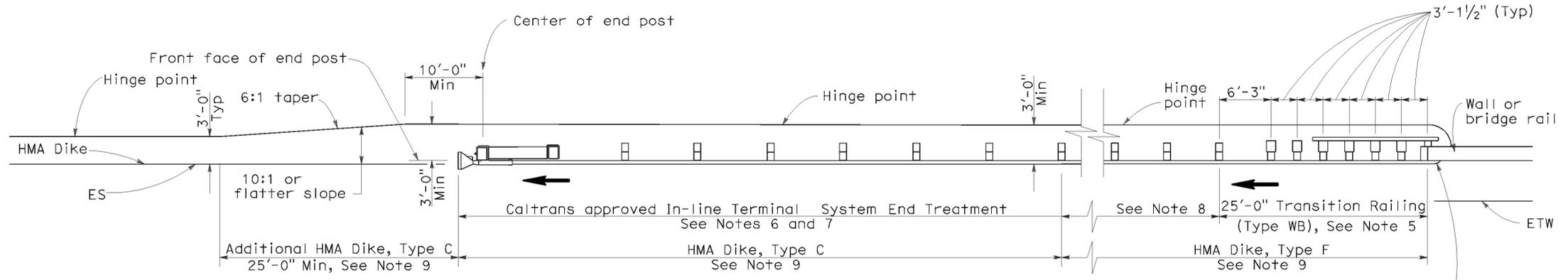
June 6, 2008
PLANS APPROVAL DATE

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

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

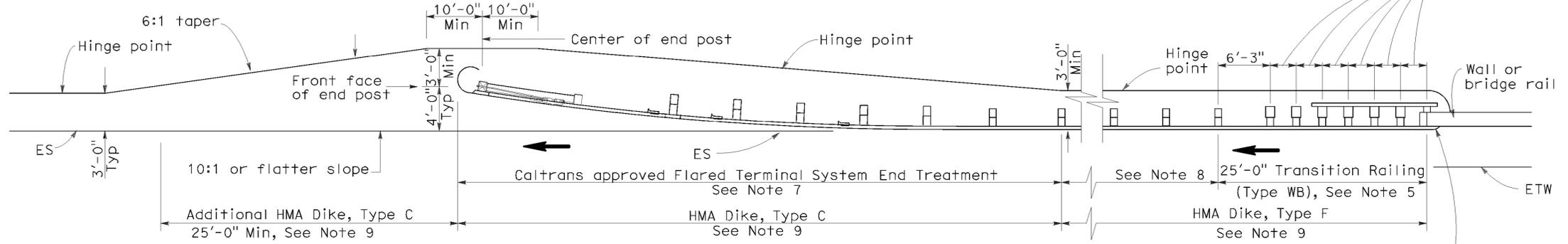
To accompany plans dated 12-29-10

2006 REVISED STANDARD PLAN RSP A77F4



TYPE 12AA LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE DEPARTURE WITH AN IN-LINE END TREATMENT AT TRAILING END OF RAILING)
See Notes 9 and 10



TYPE 12BB LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE DEPARTURE WITH A FLARED END TREATMENT AT TRAILING END OF RAILING)
See Notes 9 and 10

NOTES:

- Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- Direction of adjacent traffic indicated by \rightarrow .
- For Transition Railing (Type WB) details for Types 12AA and 12BB Layouts, see Standard Plan A77J4.
- In-line Terminal System Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatments.
- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.
- Type 12AA or Type 12BB Layouts are typically used to the right of traffic departing a structure on two-way conventional highways where the roadbed width across the structure is less than 40 feet.
- For additional details of typical connections to bridge rail, see Connection Detail CC on Revised Standard Plan RSP A77J2 and Connection Detail HH on Standard Plans A77K2.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

RSP A77F4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77F4
DATED MAY 1, 2006 - PAGE 57 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77F4

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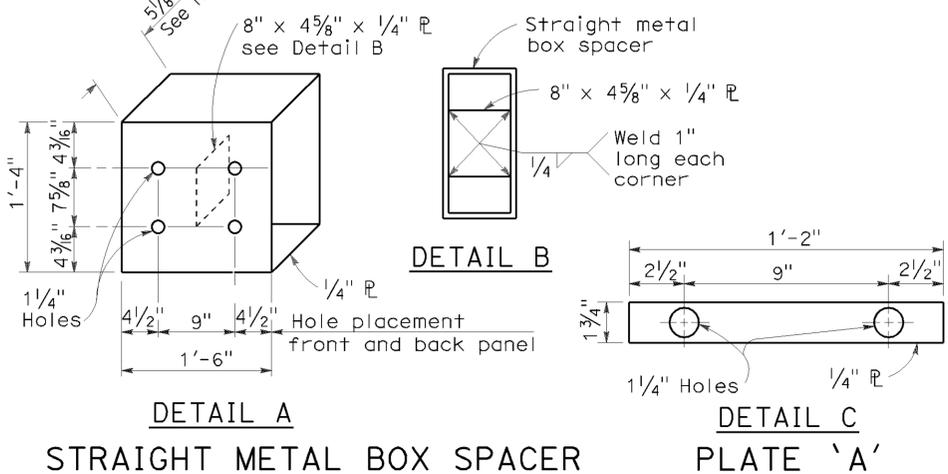
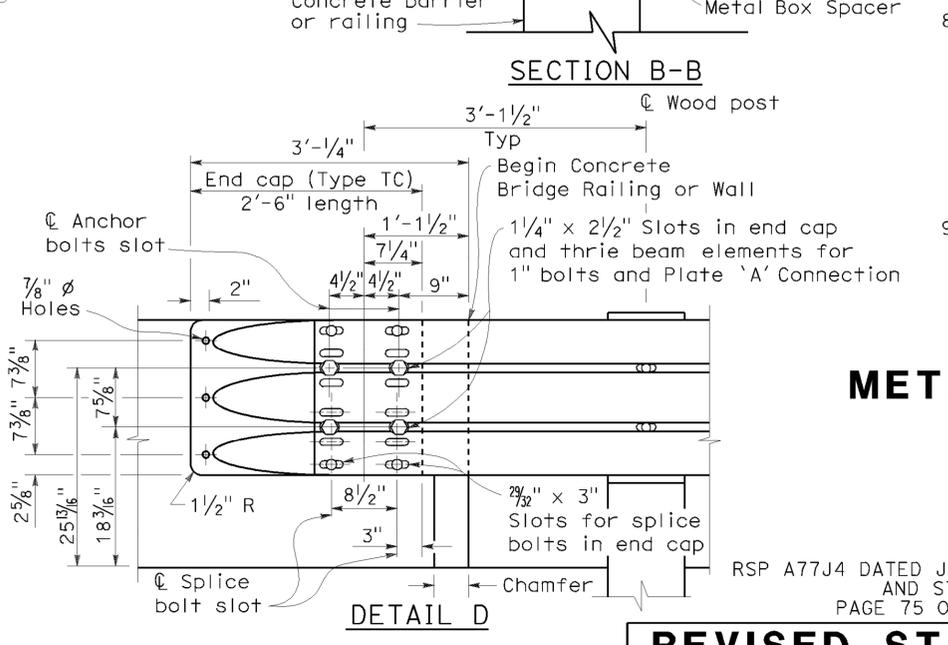
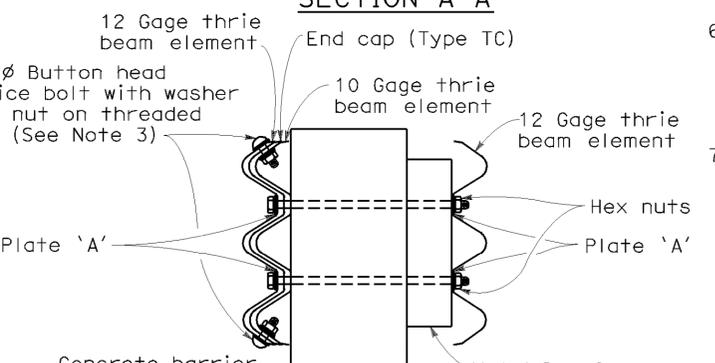
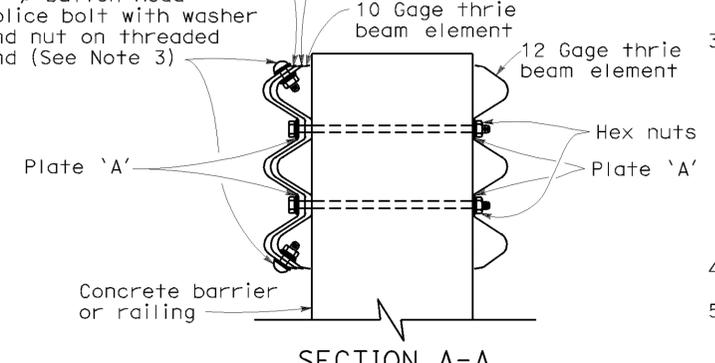
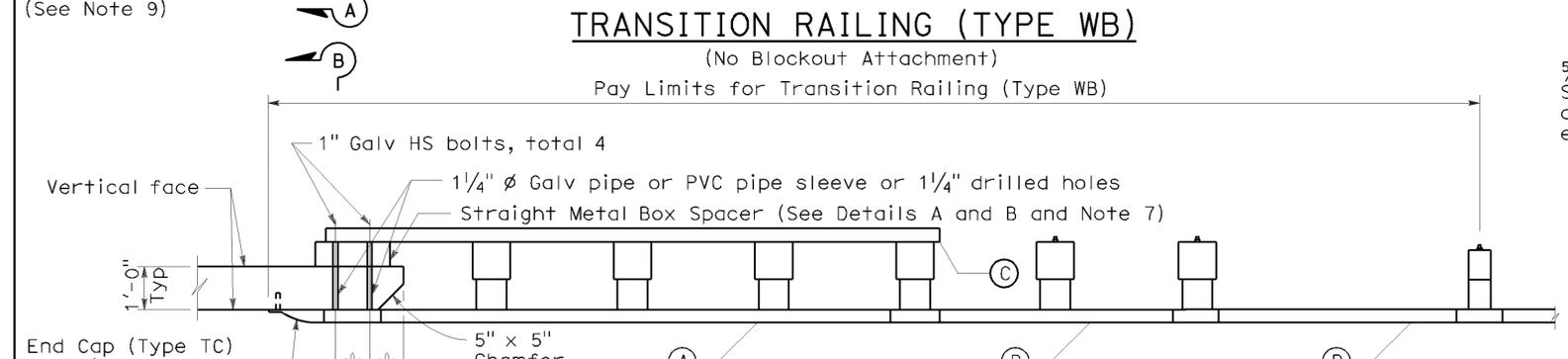
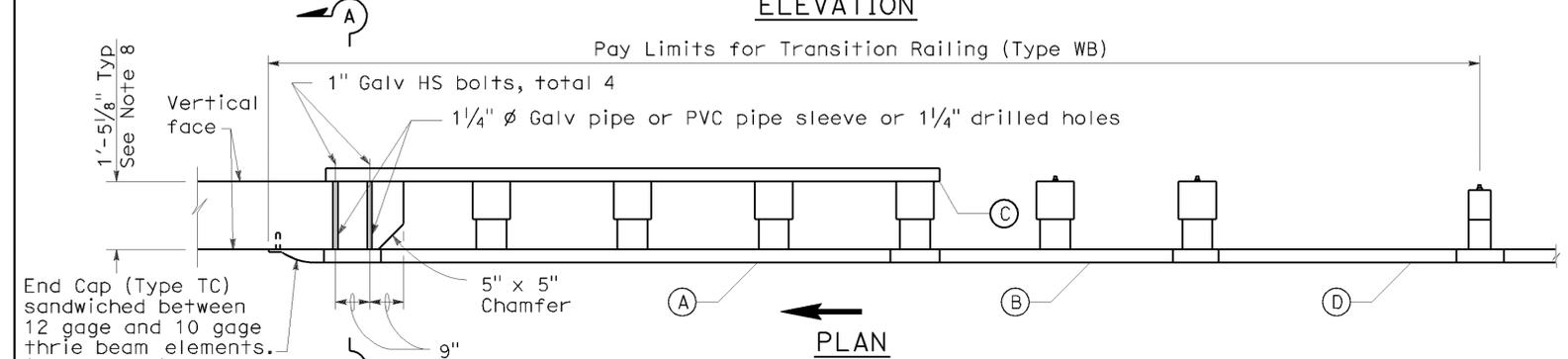
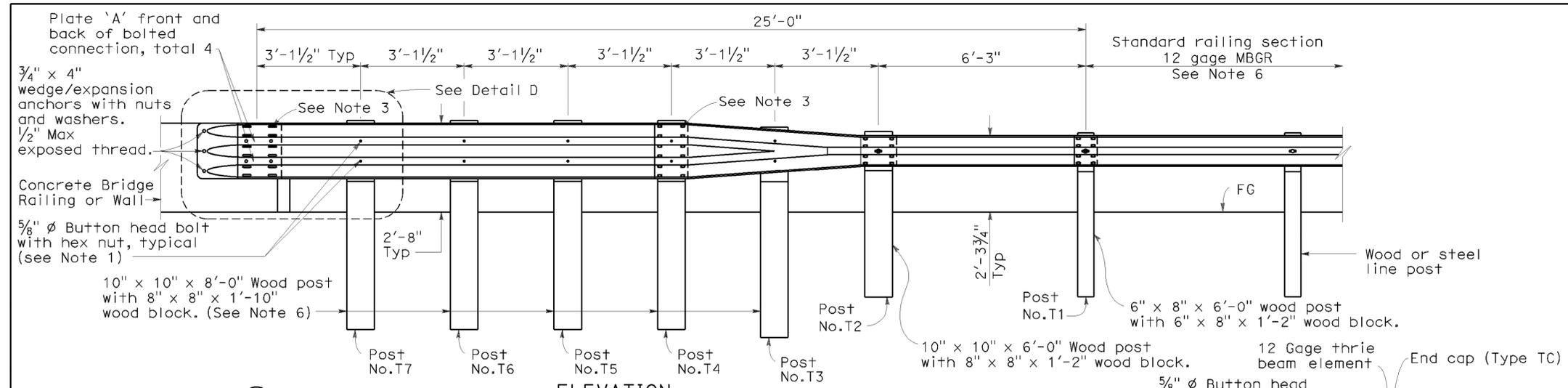
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139,299 395	Var	9	23

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 5, 2009
PLANS APPROVAL DATE

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

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



- LEGEND**
- (A) Nested thrie beam elements (one 12 gage element nested over one 10 gage element).
 - (B) One 10 gage "W" beam to thrie beam element.
 - (C) One 12 gage thrie beam element.
 - (D) One 10 gage "W" beam rail element (7'-3 1/2" length)
- 10 gage = 0.135" thick
12 gage = 0.108" thick

- NOTES:** To accompany plans dated 12-29-10
1. Use 5/8" ϕ Button head bolts and hex nuts for connections to posts. No washer on rail face for bolted connections to post.
 2. The nested rail elements, end cap, and "W" beam to thrie beam element may be spliced together prior to bolting the elements to the wood post and concrete barrier or railing.
 3. Exterior splice bolt for rail element splices at Post No. T4 and the connection to the concrete barrier or railing shall be the standard 29/32" x 1 1/8" slot size. Interior splice bolt holes at these locations may be increased up to 1 1/4" ϕ . Only the top 2 and the bottom 2 splice bolts with washers and nuts are required for rail splices at Post No. T4 and the connection to the concrete barrier or railing.
 4. Direction of adjacent traffic indicated by \rightarrow .
 5. The top elevation of Post Nos. T2 through T7 shall not project more than 1" above the top elevation of the rail element.
 6. Typically, the railing connected to Transition Railing (Type WB) will be either standard railing section of metal beam guard railing or an approved Caltrans end treatment attached to Post No. T1.
 7. The depth of the metal box spacer varies from the 5 1/8" to 1 1/2" and is dependent on the width of the concrete railing or wall. The combined dimension for the depth of the metal box spacer plus the width of railing or wall is typically 17 1/8". Where the space between the backside of the concrete railing or wall and the rear thrie beam element is less than 1 1/2", metal plates similar to Plate 'A' are to be used as spacers.
 8. Where the width of the concrete railing or wall is greater than 17 1/8", wood blocks are to be used to fill the space created between the backside of Posts No. 4 through No. 7 and the rear thrie beam element. These wood blocks shall be 8" in width and 1'-2" in length. The dimension between the front thrie beam element and the rear thrie beam element is to match the width of the concrete railing or wall.
 9. End cap may be installed over 12 gage and 10 gage thrie beam elements where transition railing is installed on the departure end of bridge railing.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TRANSITION RAILING
(TYPE WB)**

NO SCALE

RSP A77J4 DATED JUNE 5, 2009 SUPERSEDES RSP A77J4 DATED JUNE 6, 2008 AND STANDARD PLAN A77J4 DATED MAY 1, 2006 - PAGE 75 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77J4

2006 REVISED STANDARD PLAN RSP A77J4

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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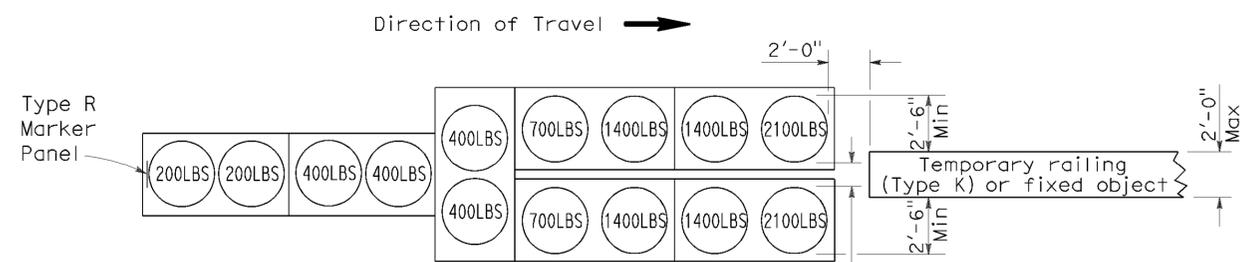
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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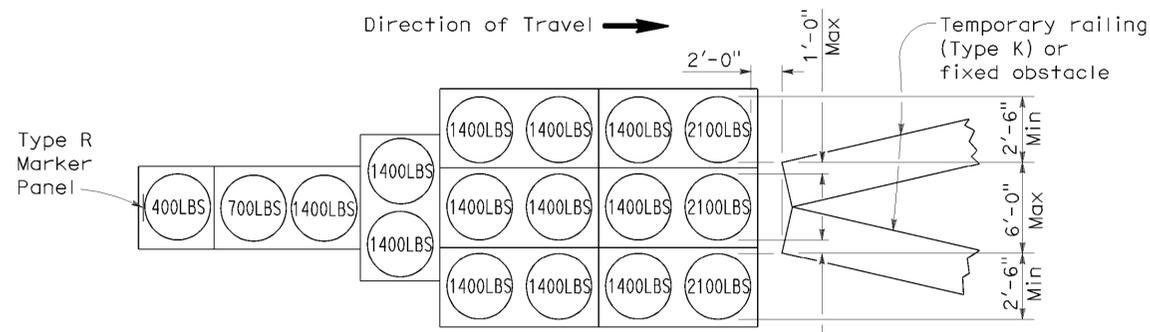
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 12-29-10



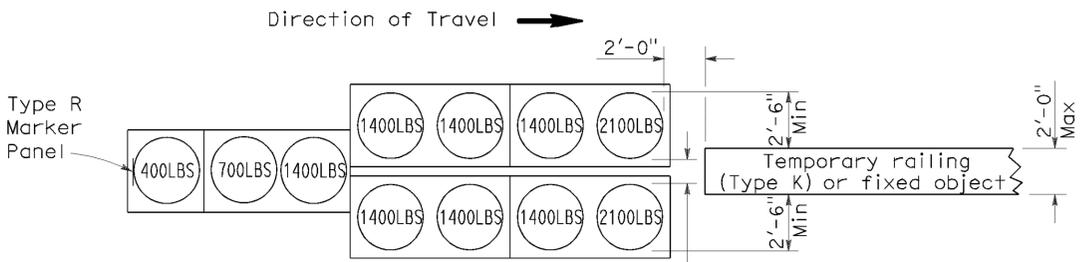
ARRAY 'TU14'

Approach speed 45 mph or more



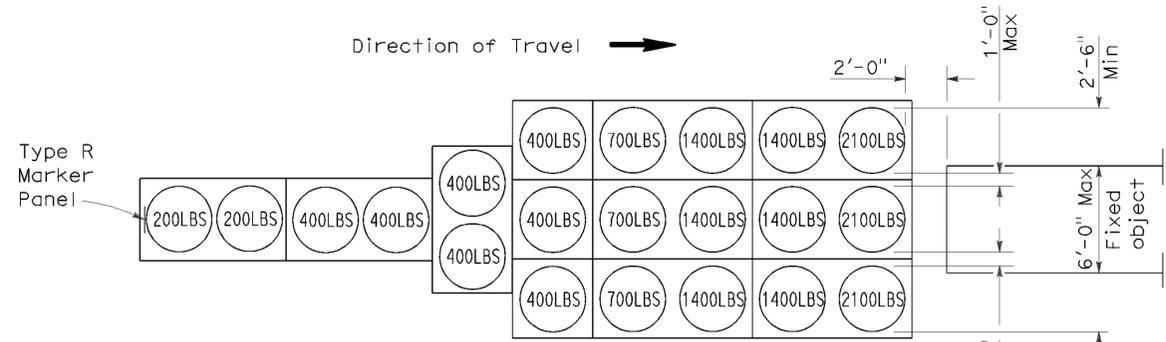
ARRAY 'TU17'

Approach speed less than 45 mph



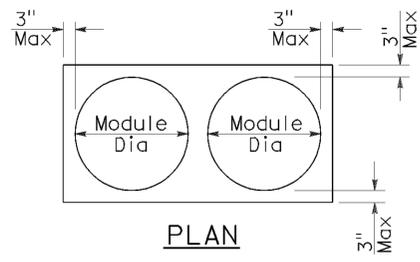
ARRAY 'TU11'

Approach speed less than 45 mph

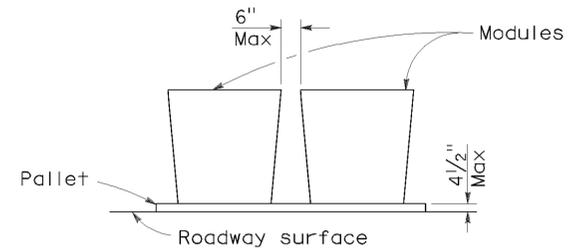


ARRAY 'TU21'

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

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2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139,299 395	Var	11	23

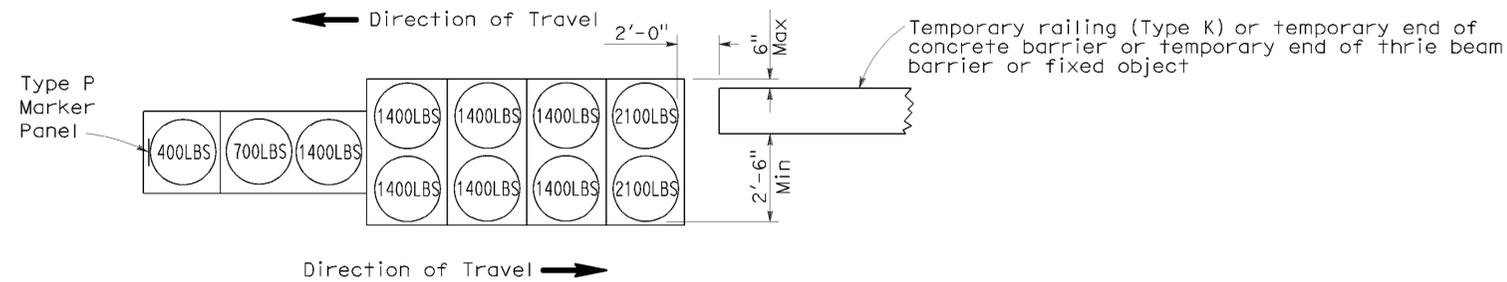
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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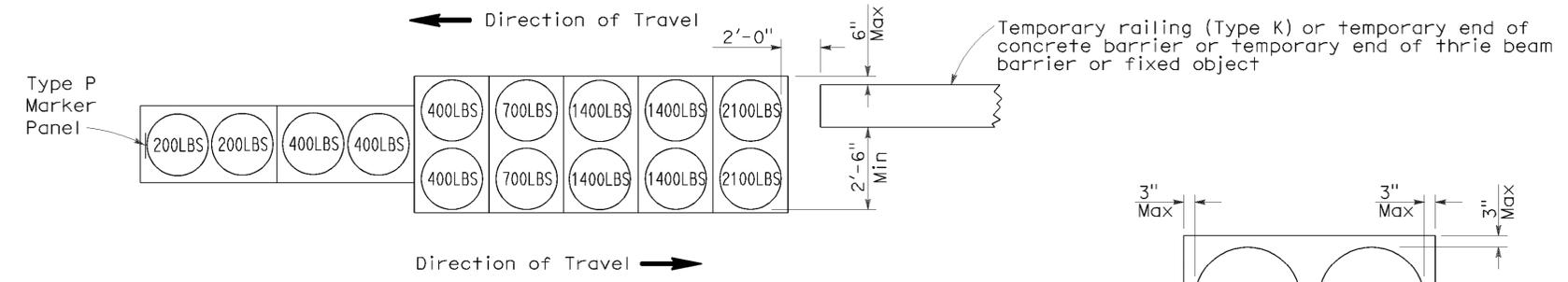
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 12-29-10



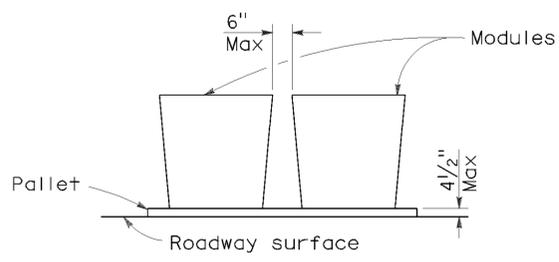
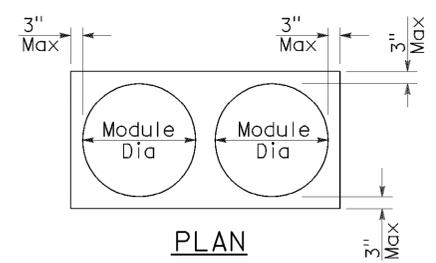
ARRAY 'TB11'

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

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2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139,299 395	Var	12	23

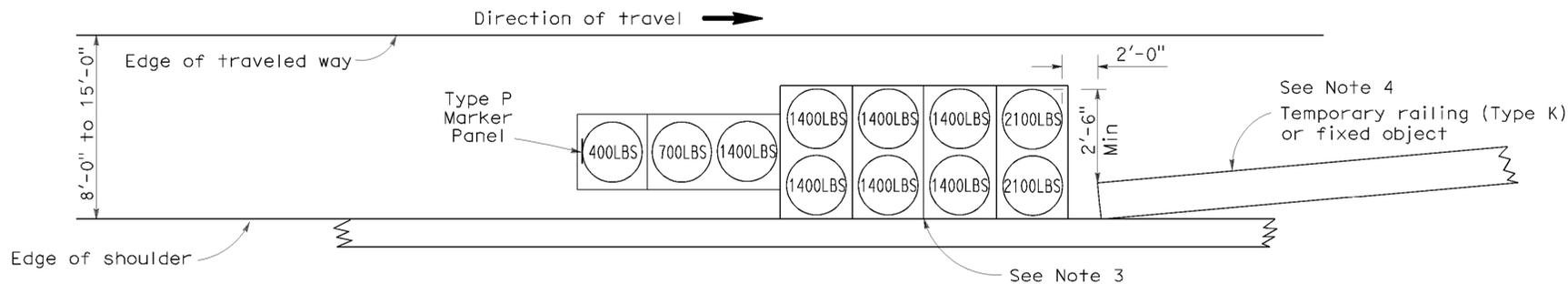
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

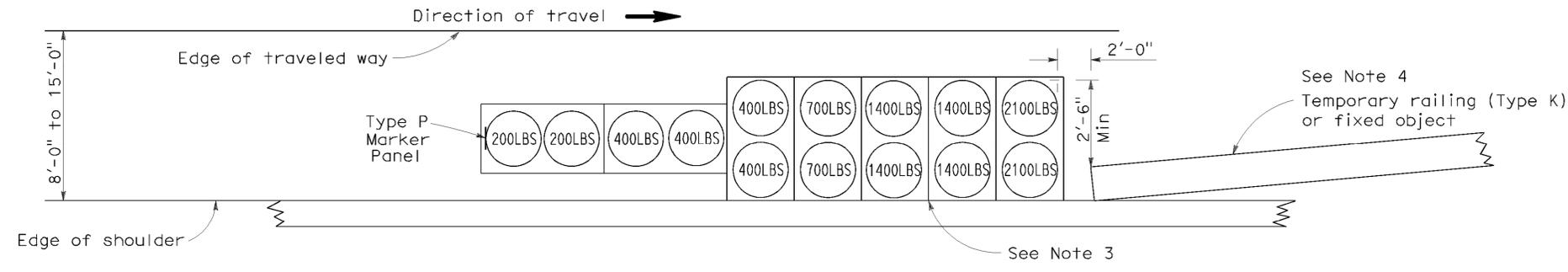
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 12-29-10



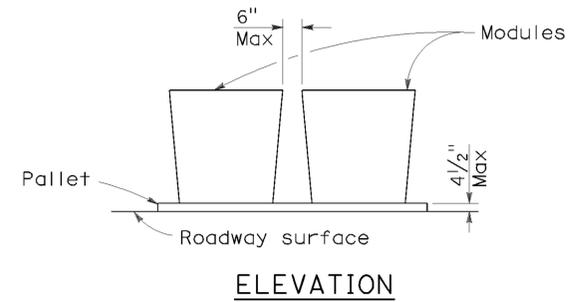
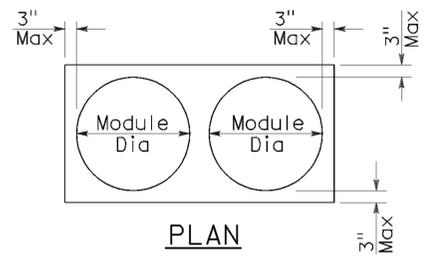
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139,299 395	Var	13	23

Robert B. Schett
LICENSED LANDSCAPE ARCHITECT

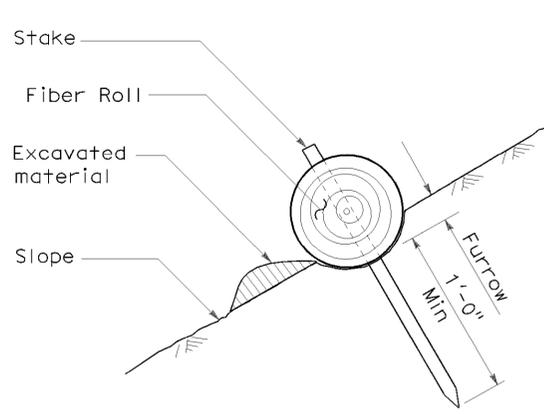
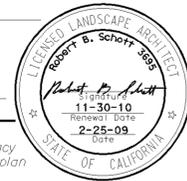
April 3, 2009
PLANS APPROVAL DATE

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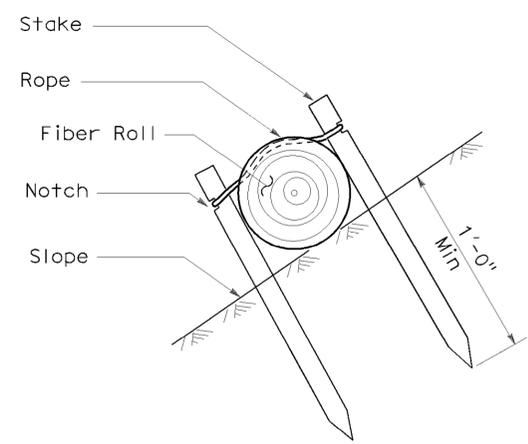
To accompany plans dated 12-29-10

NOTES:

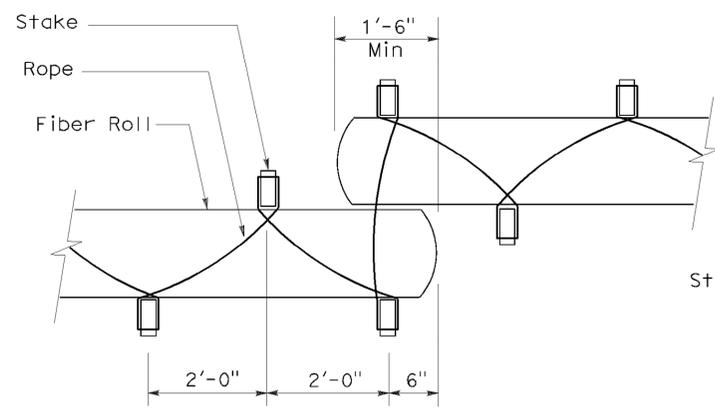
1. Temporary fiber roll spacing varies depending upon slope inclination.
2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



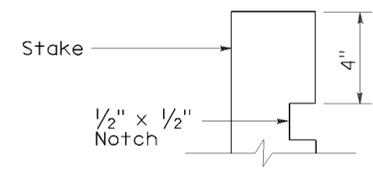
SECTION
TEMPORARY FIBER ROLL (TYPE 1)



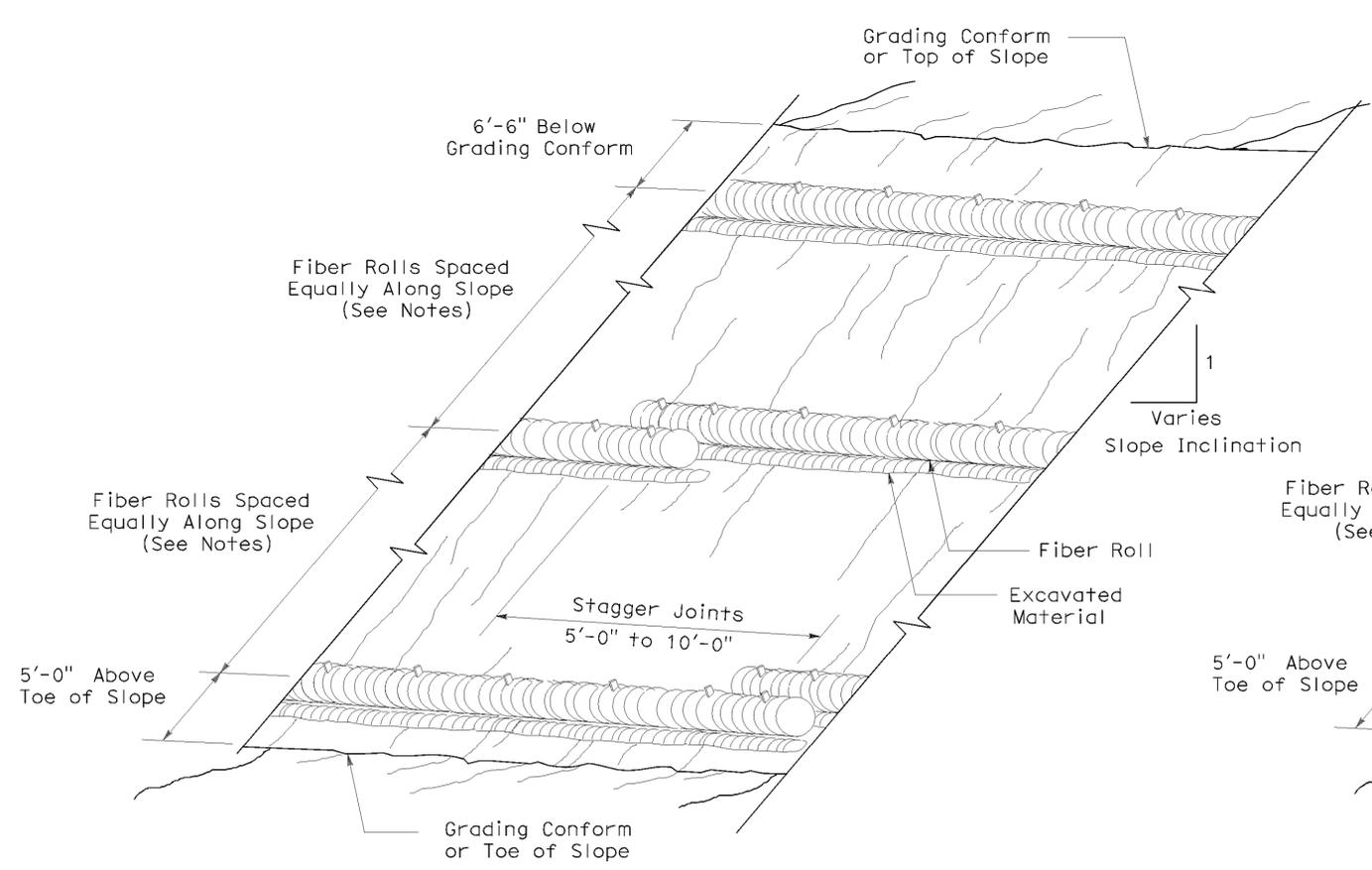
SECTION
TEMPORARY FIBER ROLL (TYPE 2)



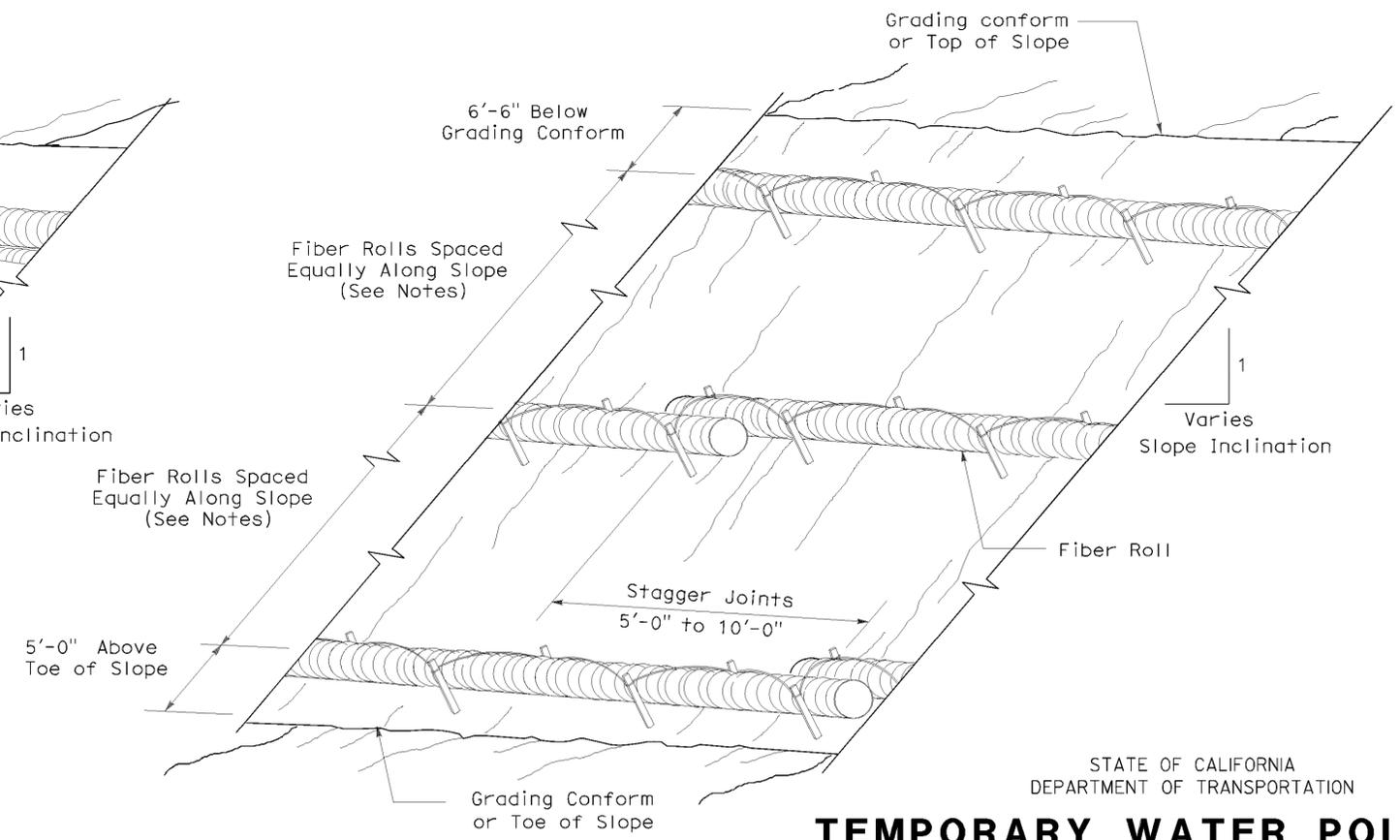
PLAN
TEMPORARY FIBER ROLL (TYPE 2)



ELEVATION
STAKE NOTCH DETAIL



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLL)

NO SCALE

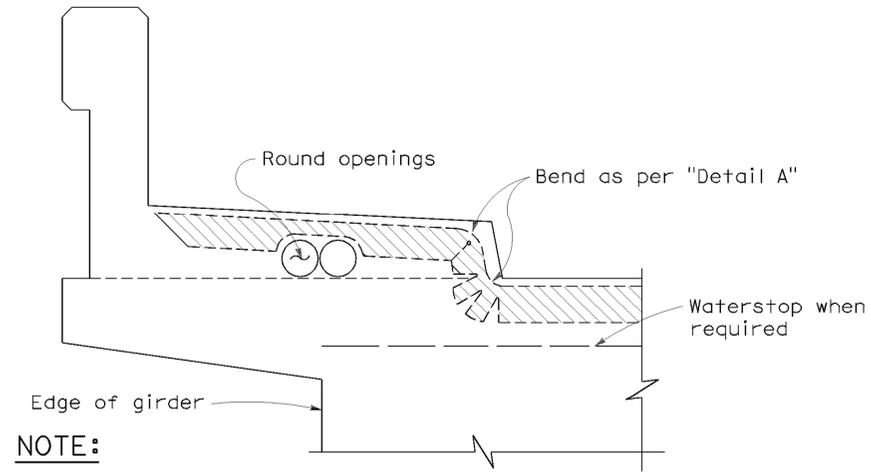
RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T56

232

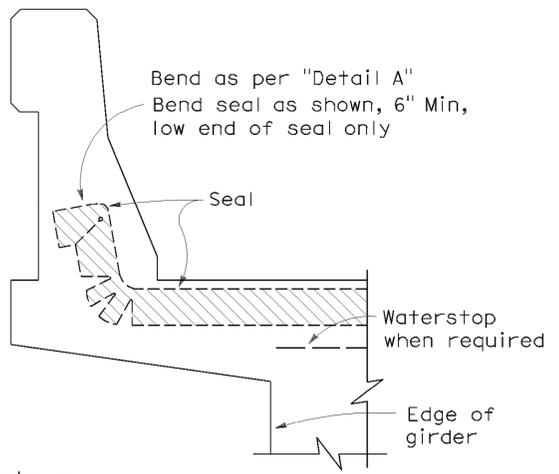
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2006 REVISED STANDARD PLAN RSP T56

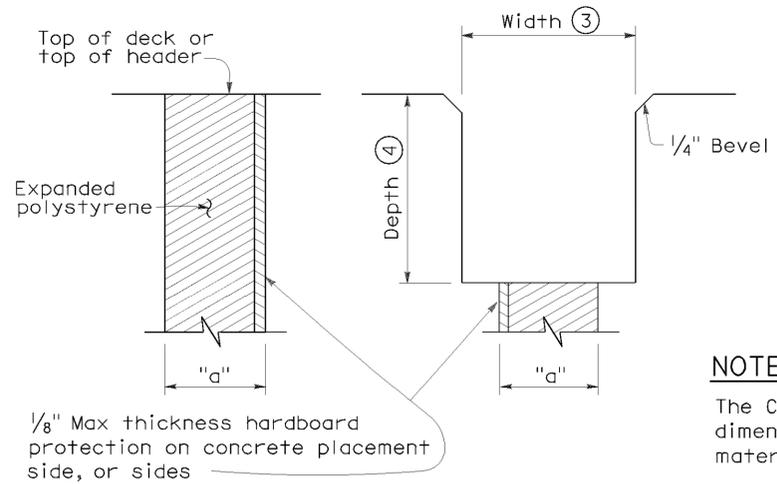


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



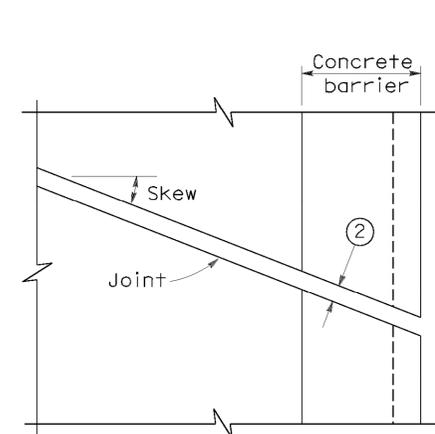
CONCRETE BARRIER



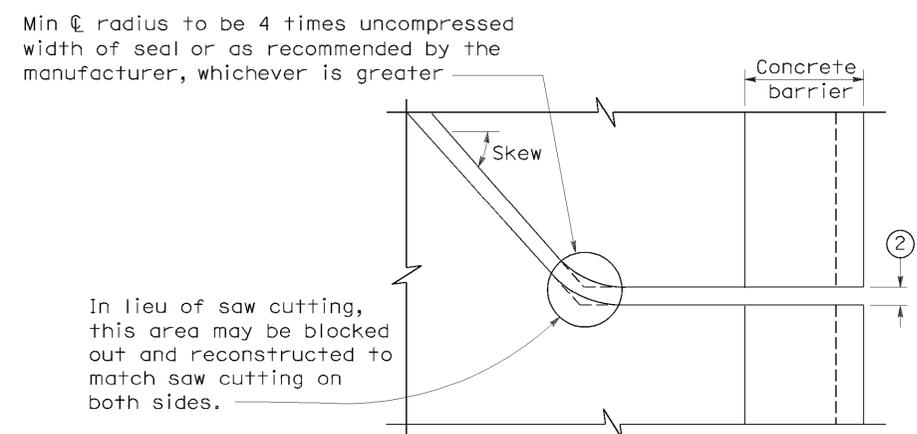
FORMING DETAIL SAWCUT DETAIL

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

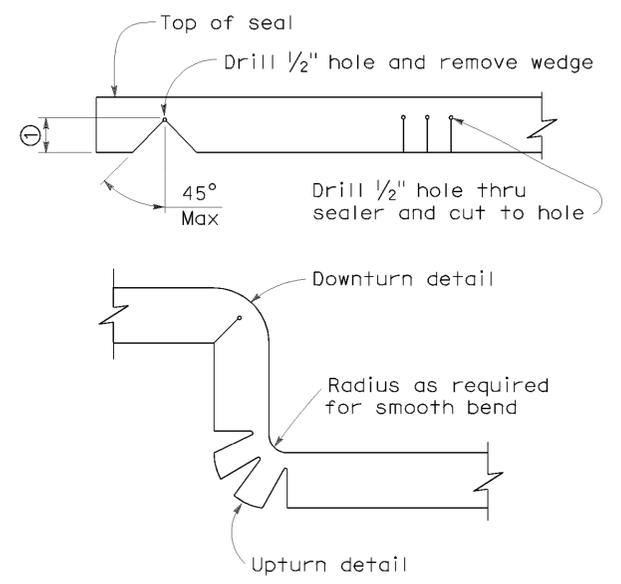
JOINT SEALS DETAILS



PLAN OF JOINT (SKEW ≤ 20°)



PLAN OF JOINT (SKEW > 20°)



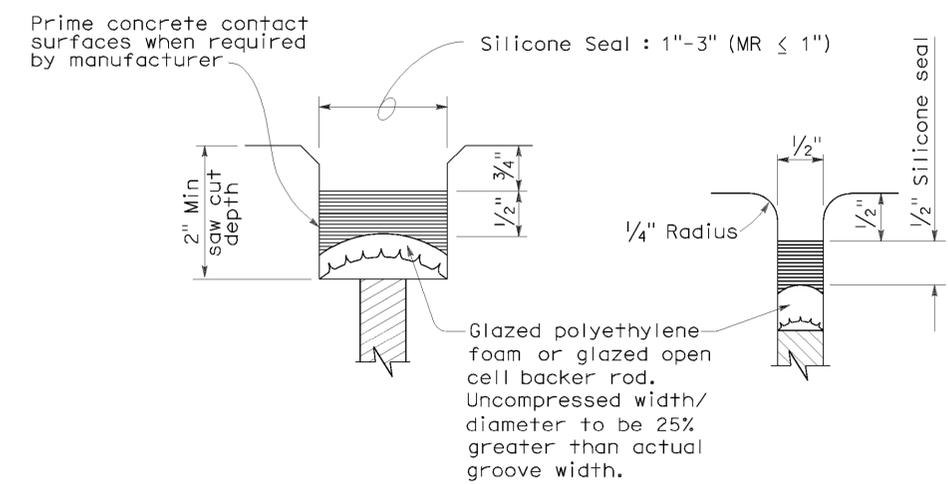
DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 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

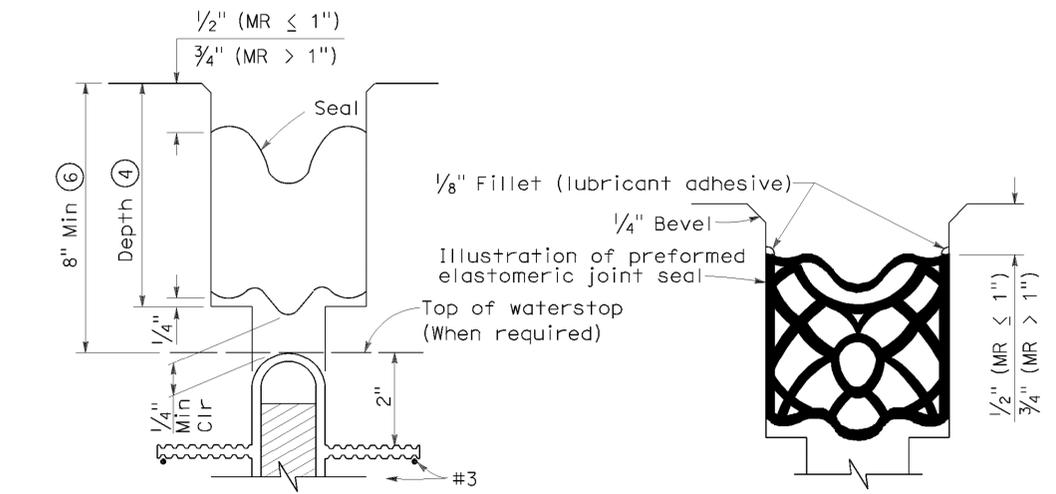


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



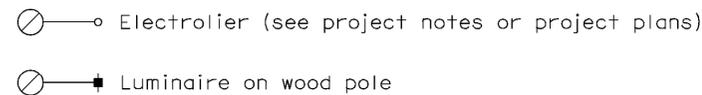
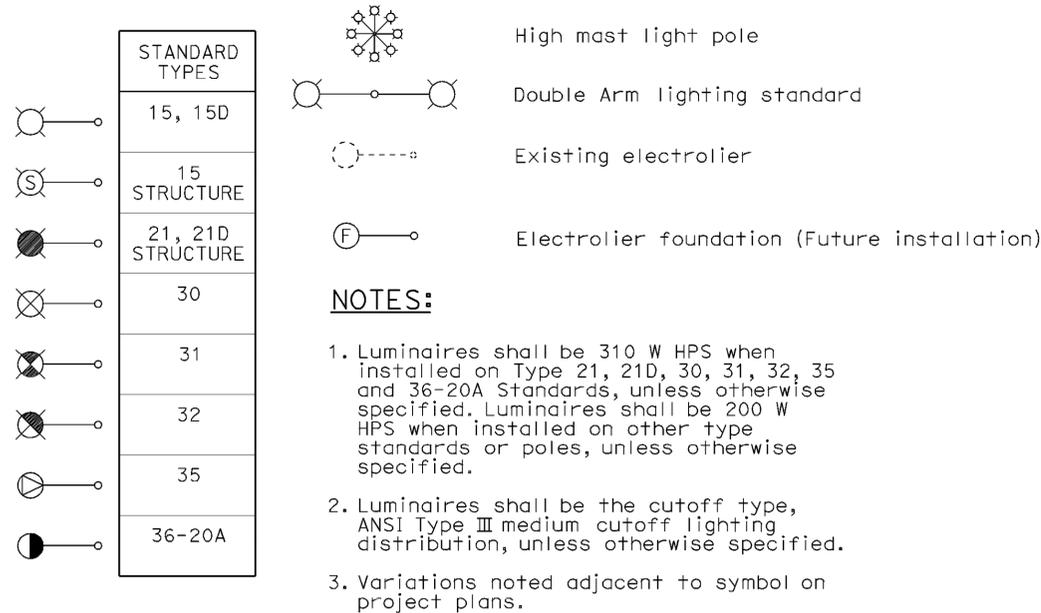
TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

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.

ELECTROLIERS



STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	
MAS-4C	mas-4C	
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139,299 395	Var	15	23

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

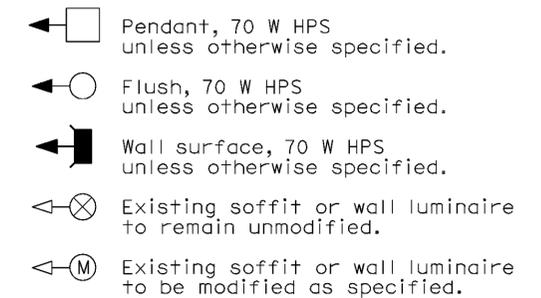
October 5, 2007
PLANS APPROVAL DATE

Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

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

To accompany plans dated 12-29-10

SOFFIT AND WALL MOUNTED LUMINAIRES



NOTE:

Arrow indicates "street side" of luminaire.

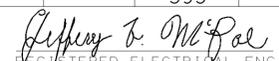
ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139,299 395	Var	16	23


 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

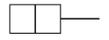
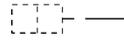
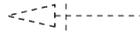
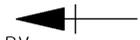
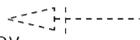
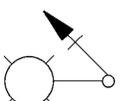
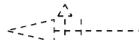
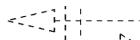
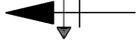
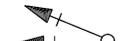
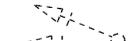
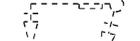
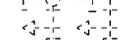
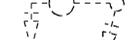
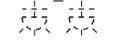
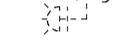
REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 12-29-10

CONDUIT

PROPOSED	EXISTING	
---	---	Lighting Conduit, unless otherwise indicated or noted
---	---	Traffic signal conduit
-C-	-c-	Communication conduit
-T-	-t-	Telephone conduit
-F-	-f-	Fire alarm conduit
-FO-	-fo-	Fiber optic conduit
---	---	Conduit termination 
		Conduit riser in/on structure or service pole

SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" Indicates all non-arrow sections lowered "LG" Indicates lowered green section only "PV" Indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

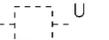
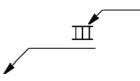
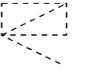
SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

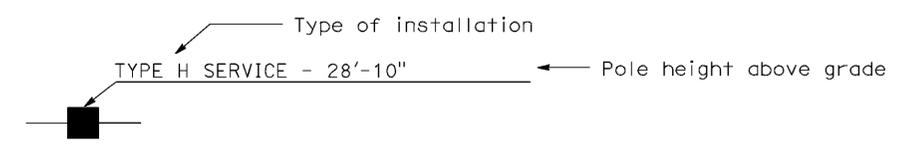
NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.
- Signal indication shall be LED.

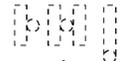
SERVICE EQUIPMENT

PROPOSED	EXISTING	
---OH---	---oh---	Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**
 NO SCALE

RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

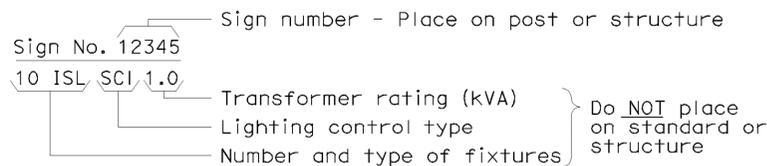
REVISED STANDARD PLAN RSP ES-1B

P:\proj\202\2E280\plans\pse\22e280va010.dgn

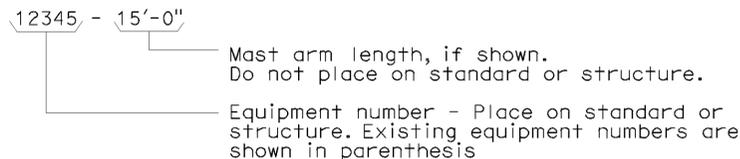
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

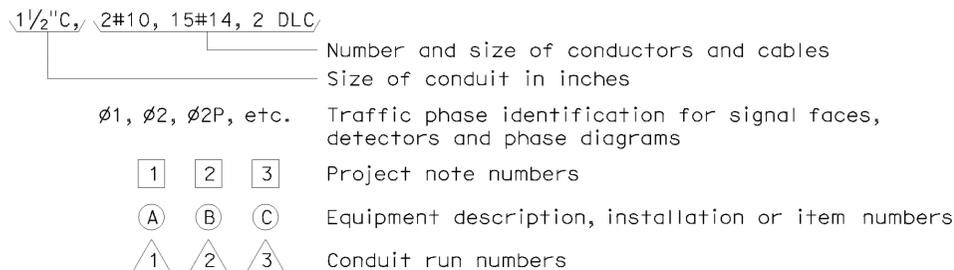
ILLUMINATED SIGN IDENTIFICATION NUMBER:



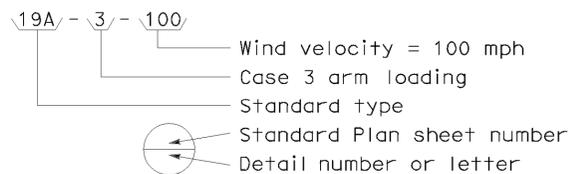
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



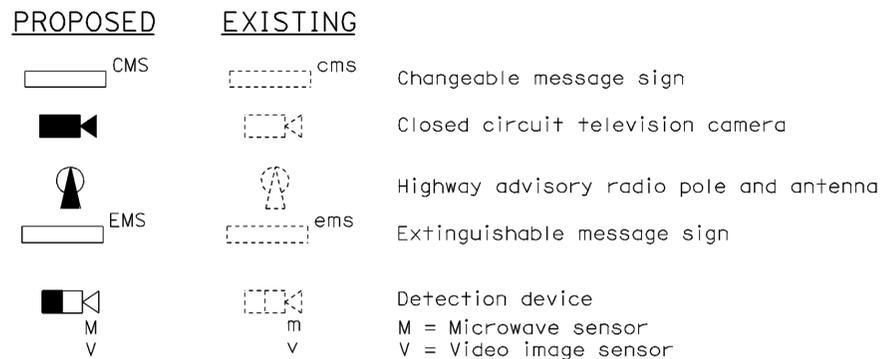
CONDUIT AND CONDUCTOR IDENTIFICATION:



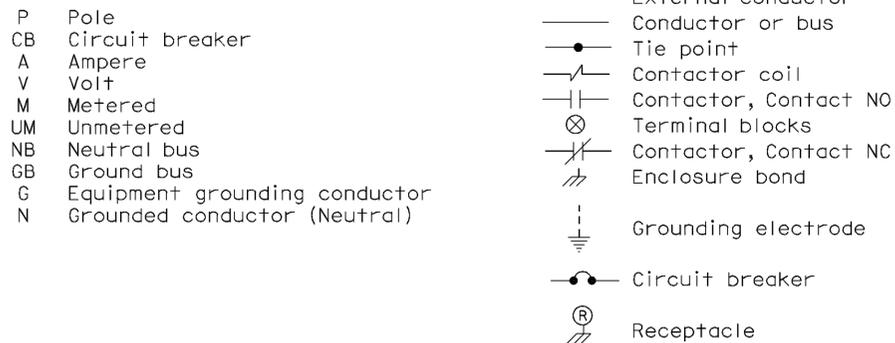
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



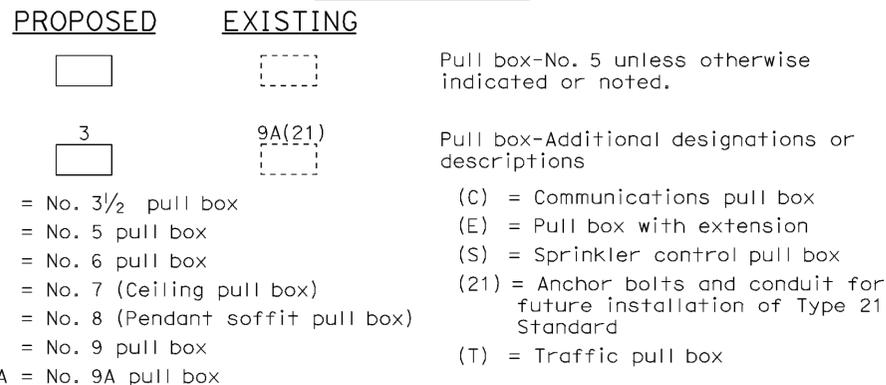
MISCELLANEOUS EQUIPMENT



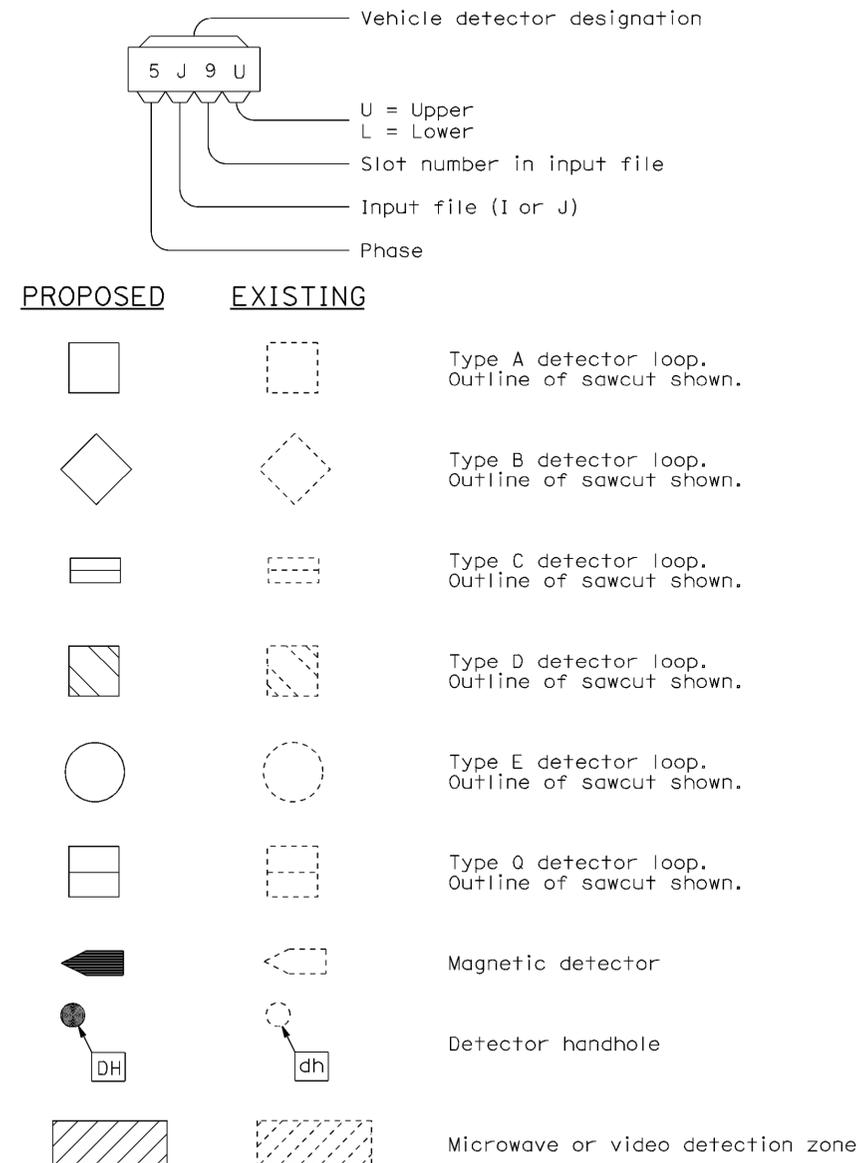
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(SYMBOLS AND ABBREVIATIONS)
 NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
 DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139,299 395	Var	18	23

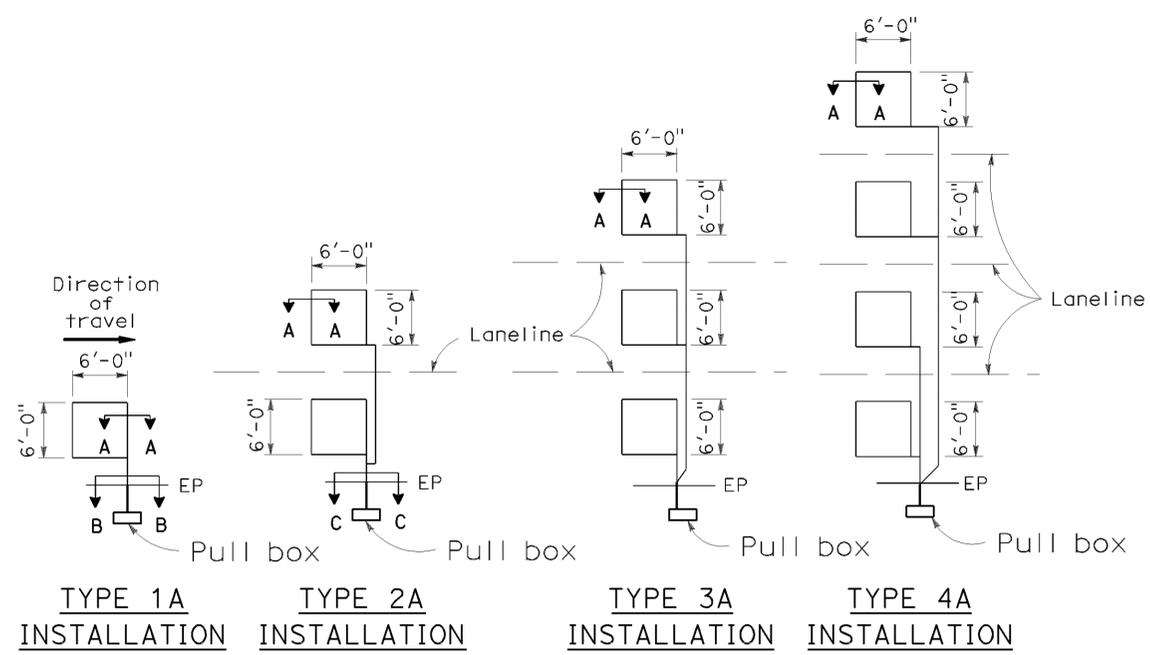
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

October 5, 2007
 PLANS APPROVAL DATE

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LOOP INSTALLATION PROCEDURE

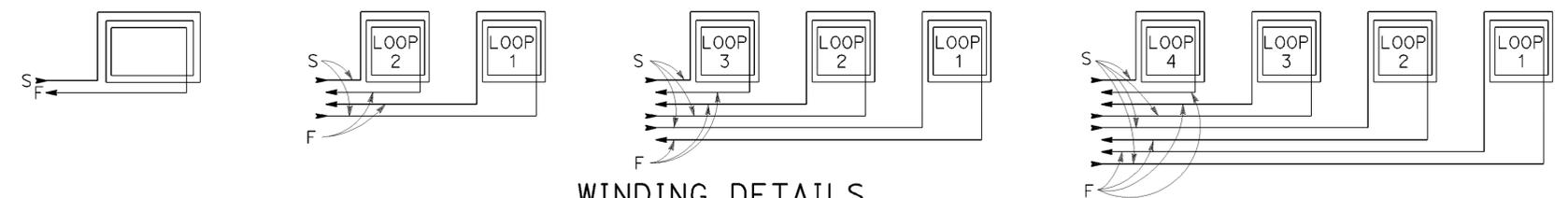
- Loops shall be centered in lanes.
- Saw slots in pavement for loop conductors as shown in details.
- Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
- Bottom of saw slot shall be smooth with no sharp edges.
- Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
- Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
- Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
- Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
- No more than 2 twisted pairs shall be installed in one sawed slot.
- Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
- The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
- Fill slots as shown in details.
- Splice loop conductors to lead-in-cable. Splices shall be soldered.
- End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
- Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
- Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.



TYPE 1A INSTALLATION TYPE 2A INSTALLATION TYPE 3A INSTALLATION TYPE 4A INSTALLATION

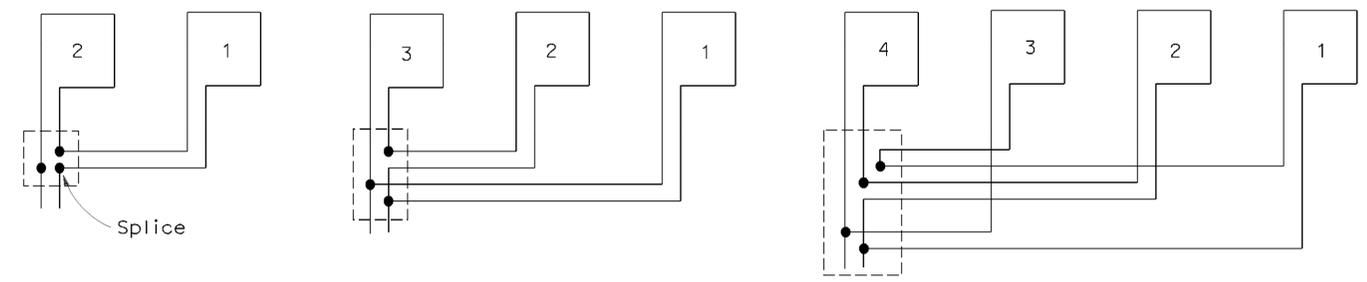
SAWCUT DETAILS

- (Type A loop detector configurations illustrated)
- 1A thru 4A = 1 Type A loop configuration in each lane.
 - 1B thru 4B = 1 Type B loop configuration in each lane.
 - 1C = 1 Type C loop configuration entering lanes as required.
 - 1D thru 4D = 1 Type D loop configuration in each lane.
 - 1E thru 4E = 1 Type E loop configuration in each lane.
 - 1Q thru 4Q = 1 Type Q loop configuration in each lane.
- (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)



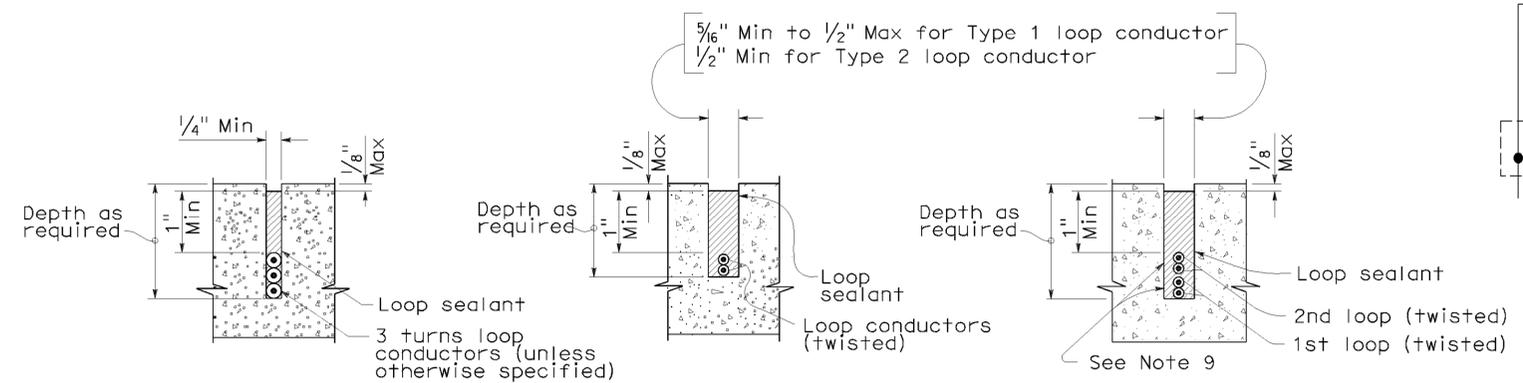
WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



SECTION A-A SECTION B-B SECTION C-C
 SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

ELECTRICAL SYSTEMS (DETECTORS)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

NO SCALE

RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A
 DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-5A

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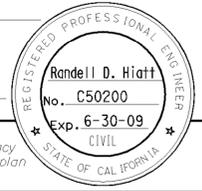
2006 REVISED STANDARD PLAN RSP ES-5A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139,299 395	Var	19	23

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

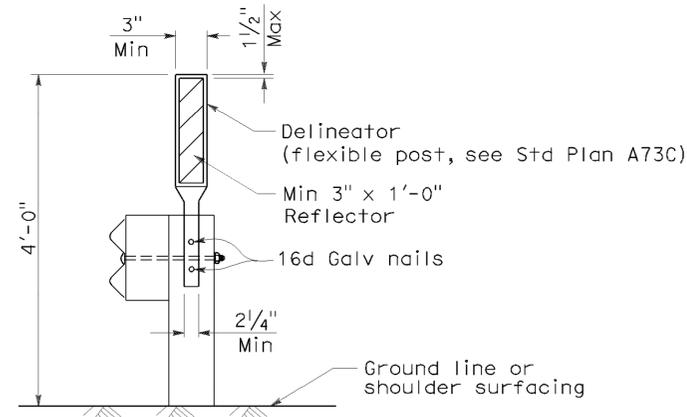
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To accompany plans dated 12-29-10

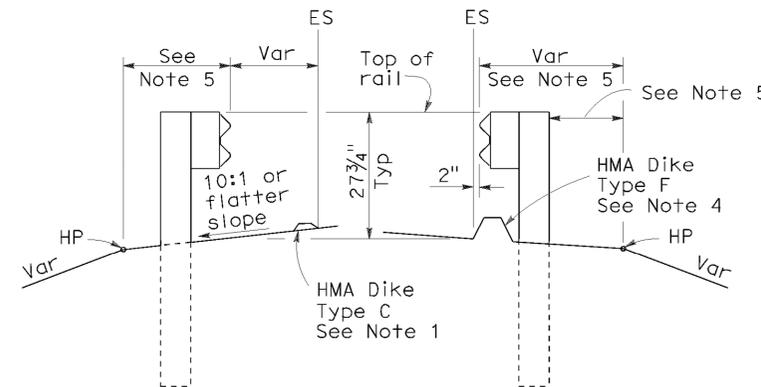
NOTES:

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



GUARD RAILING DELINEATION

See Note 3



DIKE POSITIONING

See Note 1

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

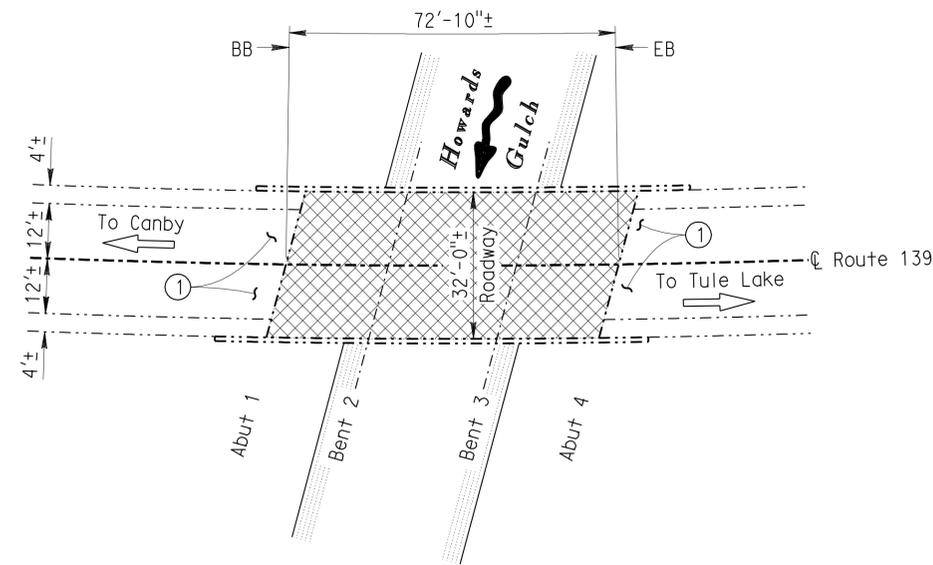
RSP A77C4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77C4
DATED MAY 1, 2006 - PAGE 47 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77C4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139, 299, 395	VAR	20	23

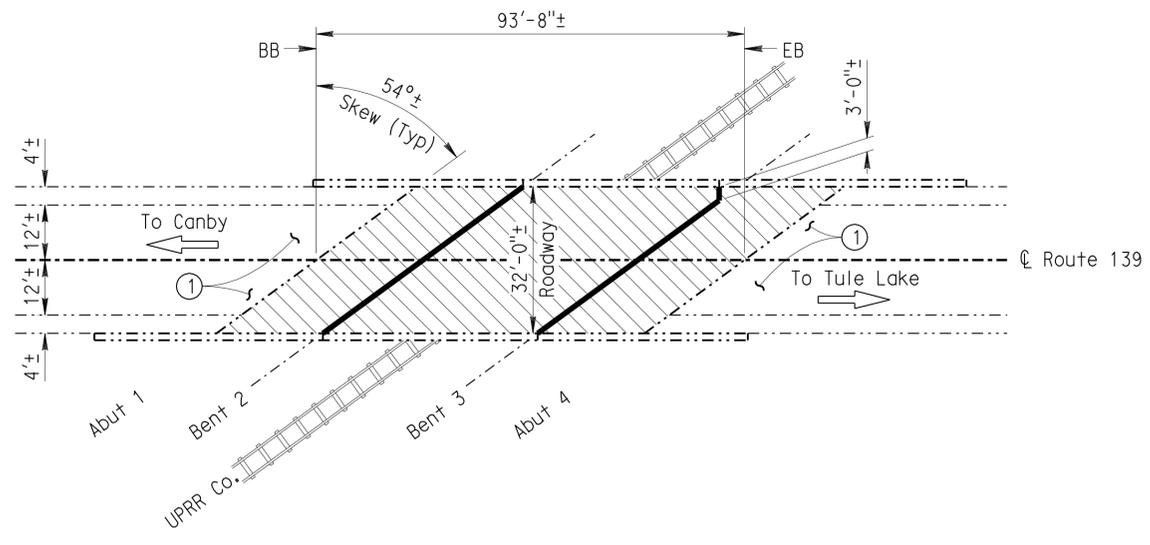
11-9-10
 REGISTERED CIVIL ENGINEER DATE
 12/29/2010
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 HOSSEIN MOZAMI
 No. C 60058
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA



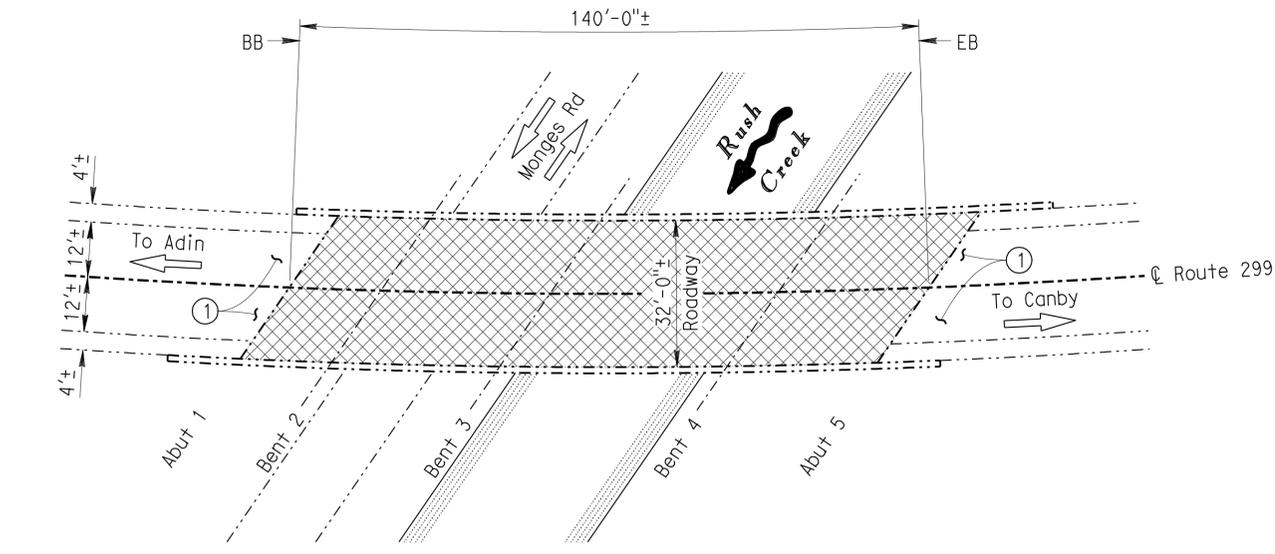
HOWARDS GULCH

BR NO. 03-0011, Mod, ROUTE 139, PM R2.23
1" = 20'



PEREZ OVERHEAD

BR NO. 03-0033, Mod, ROUTE 139, PM 30.63
1" = 20'



RUSH CREEK

BR NO. 03-0003, Mod, ROUTE 299, PM 6.32
1" = 20'

HOWARDS GULCH BR. NO. 03-0011

QUANTITIES		
REMOVE ASPHALT CONCRETE SURFACING	2,331	SQFT
REMOVE UNSOUND CONCRETE	12	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	2,331	SQFT
RAPID SETTING CONCRETE (PATCH)	12	CF
FURNISH POLYESTER CONCRETE OVERLAY	175	CF
PLACE POLYESTER CONCRETE OVERLAY	2,331	SQFT
PUBLIC SAFETY PLAN		LUMP SUM

PEREZ OVERHEAD BR. NO. 03-0033

QUANTITIES		
REMOVE UNSOUND CONCRETE	15	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	2,997	SQFT
CLEAN EXPANSION JOINT	110	LF
RAPID SETTING CONCRETE (PATCH)	15	CF
FURNISH POLYESTER CONCRETE OVERLAY	225	CF
PLACE POLYESTER CONCRETE OVERLAY	2,997	SQFT
JOINT SEAL (MR 1/2")	110	LF
PUBLIC SAFETY PLAN		LUMP SUM

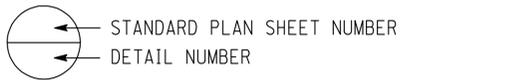
RUSH CREEK BR. NO. 03-0003

QUANTITIES		
REMOVE ASPHALT CONCRETE SURFACING	4,480	SQFT
REMOVE UNSOUND CONCRETE	22	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,480	SQFT
RAPID SETTING CONCRETE (PATCH)	22	CF
FURNISH POLYESTER CONCRETE OVERLAY	336	CF
PLACE POLYESTER CONCRETE OVERLAY	4,480	SQFT
PUBLIC SAFETY PLAN		LUMP SUM

NOTES: (APPLY TO ALL SHEETS)

----- Indicates existing structure.

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



NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of prepare existing concrete deck, remove unsound concrete and patch with rapid setting concrete and place new 3/4" min. depth polyester concrete overlay. See JOINT SEAL AND DECK OVERLAY DETAILS sheet.

Indicates limits of remove existing 3"± depth AC overlay plus membrane, prepare existing concrete deck, remove unsound concrete and patch with rapid setting concrete and place new 3/4" min. depth polyester concrete overlay. See JOINT SEAL AND DECK OVERLAY DETAILS sheet.

Indicates location of remove existing joint seal and place new joint seal. See JOINT SEAL AND DECK OVERLAY DETAILS sheet.

① See Road Plans for transition from top of existing roadway surface to top of new polyester concrete overlay on structure.

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	JOINT SEAL AND DECK OVERLAY DETAILS

STANDARD PLANS DATED MAY 2006

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

Michael J. Lee
DESIGN ENGINEER
11-9-10

DESIGN	BY H. Moazami	CHECKED K. Truong
DETAILS	BY G.F. Bidwell	CHECKED K. Truong
QUANTITIES	BY H. Moazami	CHECKED K. Truong

LAYOUT	BY G.F. Bidwell	CHECKED H. Moazami
SPECIFICATIONS	BY Huang/Kopsa	PLANS AND SPECIFICATIONS COMPARED MARY KOPSA

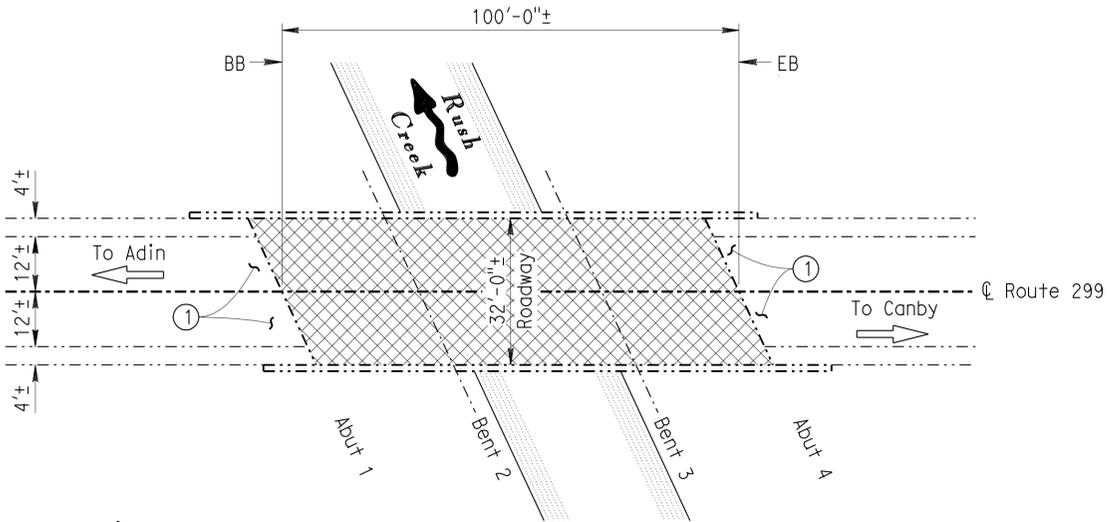
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIOUS
ROUTES 139, 299 & 395 BRIDGES
GENERAL PLAN NO. 1

RUSH CREEK BR. NO. 03-0004

QUANTITIES		
REMOVE ASPHALT CONCRETE SURFACING	3,200	SQFT
REMOVE UNSOUND CONCRETE	16	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,200	SQFT
RAPID SETTING CONCRETE (PATCH)	16	CF
FURNISH POLYESTER CONCRETE OVERLAY	240	CF
PLACE POLYESTER CONCRETE OVERLAY	3,200	SQFT
PUBLIC SAFETY PLAN		LUMP SUM

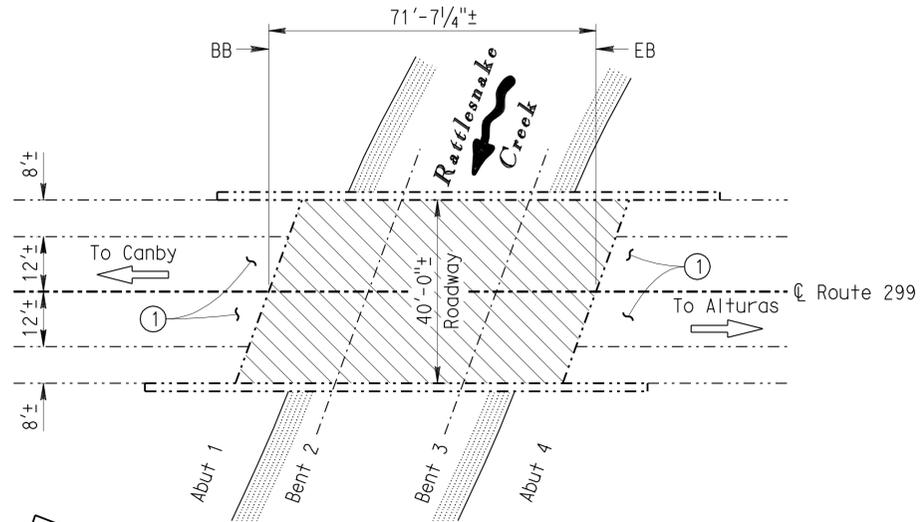


RUSH CREEK

BR NO. 03-0004, Mod, ROUTE 299, PM 8.07
1" = 20'

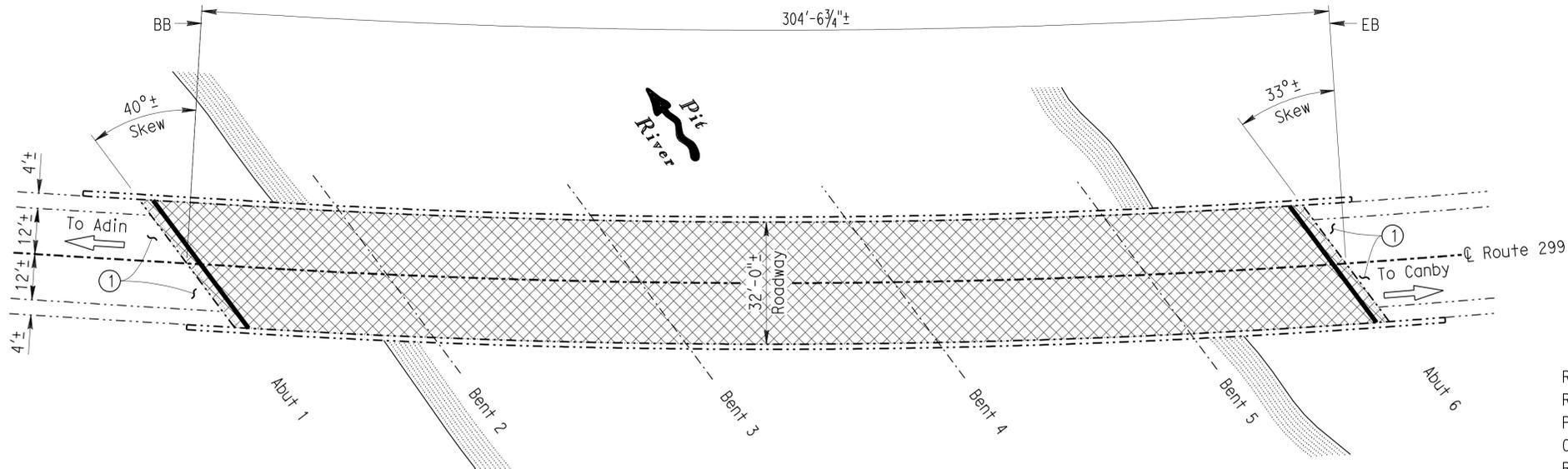
RATTLESNAKE CREEK BR. NO. 03-0008

QUANTITIES		
REMOVE UNSOUND CONCRETE	14	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	2,865	SQFT
RAPID SETTING CONCRETE (PATCH)	14	CF
FURNISH POLYESTER CONCRETE OVERLAY	215	CF
PLACE POLYESTER CONCRETE OVERLAY	2,865	SQFT
PUBLIC SAFETY PLAN		LUMP SUM



RATTLESNAKE CREEK

BR NO. 03-0008, Mod, ROUTE 299, PM 37.80
1" = 20'



PIT RIVER

BR NO. 03-0005, Mod, ROUTE 299, PM 17.95
1" = 20'

PIT RIVER BR. NO. 03-0005

QUANTITIES		
REMOVE ASPHALT CONCRETE SURFACING	9,747	SQFT
REMOVE UNSOUND CONCRETE	49	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	9,747	SQFT
CLEAN EXPANSION JOINT	81	LF
RAPID SETTING CONCRETE (PATCH)	49	CF
FURNISH POLYESTER CONCRETE OVERLAY	731	CF
PLACE POLYESTER CONCRETE OVERLAY	9,747	SQFT
JOINT SEAL (MR 2")	81	LF
PUBLIC SAFETY PLAN		LUMP SUM

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139, 299, 395	VAR	21	23

REGISTERED CIVIL ENGINEER DATE 11-9-10
HOSSEIN MOAZAMI No. C 60058 Exp. 6-30-12 CIVIL
PLANS APPROVAL DATE 12/29/2010
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

- NOTES: (APPLY TO THIS SHEET ONLY)
- ① See Road Plans for transition from top of existing roadway surface to top of new polyester concrete overlay on structure.
 - Indicates limits of remove existing 3"± depth AC overlay plus membrane, prepare existing concrete deck, remove unsound concrete and patch with rapid setting concrete and place new 3/4" min. depth polyester concrete overlay. See JOINT SEAL AND DECK OVERLAY DETAILS sheet.
 - Indicates limits of prepare existing concrete deck, remove unsound concrete and patch with rapid setting concrete and place new 3/4" min. depth polyester concrete overlay. See JOINT SEAL AND DECK OVERLAY DETAILS sheet.
 - Indicates location of remove existing joint seal and place new joint seal. See JOINT SEAL AND DECK OVERLAY DETAILS sheet.

Michael J. Lee 11-9-10
DESIGN ENGINEER

DESIGN	BY H. Moazami	CHECKED K. Truong	LAYOUT	BY G.F. Bidwell	CHECKED H. Moazami
DETAILS	BY G.F. Bidwell	CHECKED K. Truong	SPECIFICATIONS	BY Huang/Kopsa	PLANS AND SPECIFICATIONS COMPARED MARY KOPSA
QUANTITIES	BY H. Moazami	CHECKED K. Truong			

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIOUS
ROUTES 139, 299 & 395 BRIDGES
GENERAL PLAN NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	139, 299, 395	VAR	22	23

11-9-10
 REGISTERED CIVIL ENGINEER DATE
 12/29/2010
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
HOSSEIN MOZAMI
 No. C 60058
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

SOUTH FORK PIT RIVER BR. NO. 03-0019

QUANTITIES

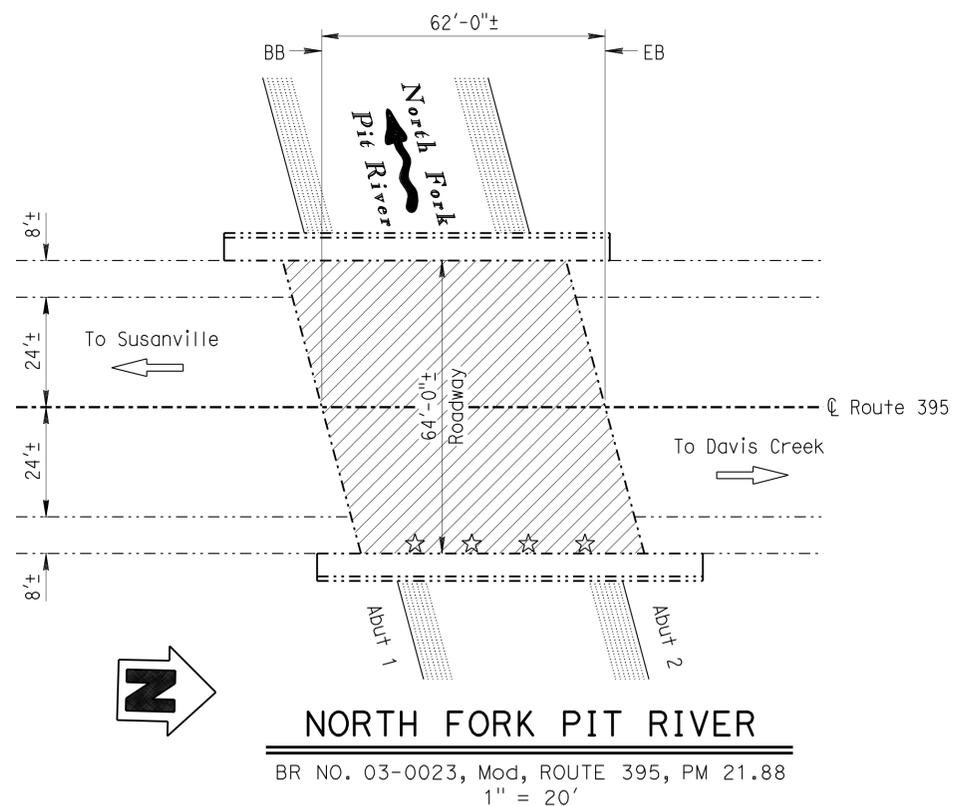
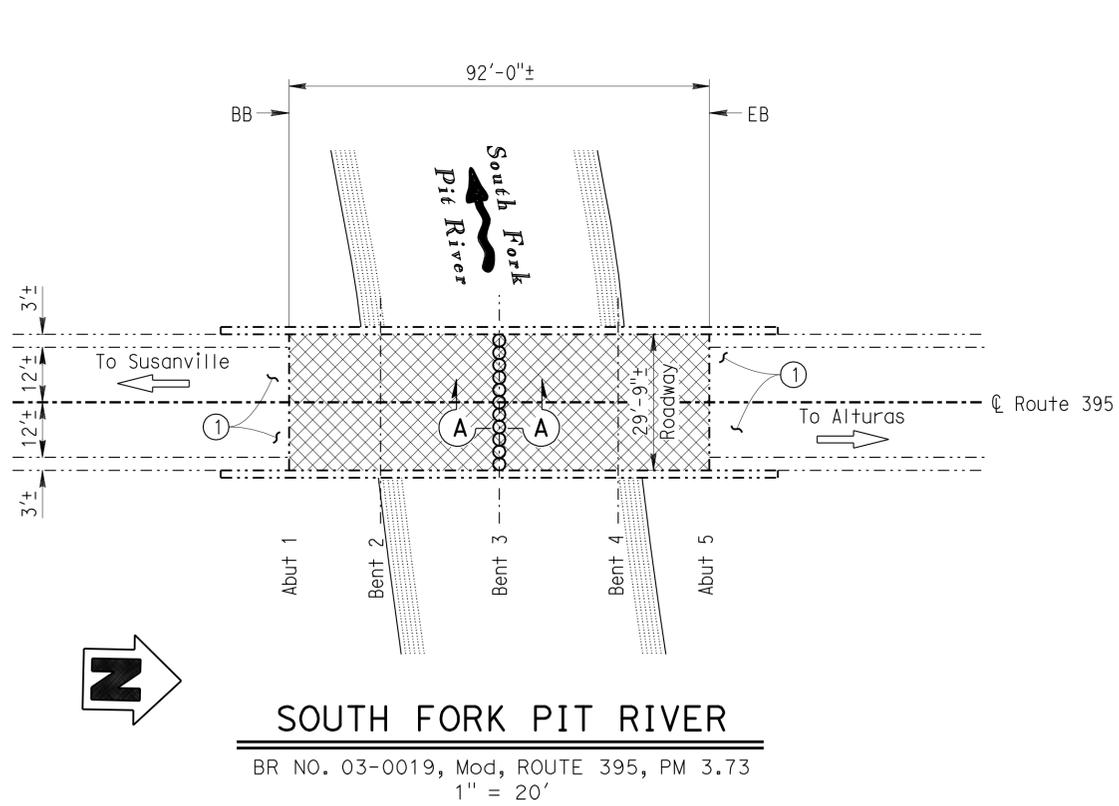
REMOVE ASPHALT CONCRETE SURFACING	2,737	SQFT
REMOVE UNSOUND CONCRETE	14	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	2,737	SQFT
GRIND EXISTING CONCRETE DECK	595	SQFT
RAPID SETTING CONCRETE (PATCH)	14	CF
FURNISH POLYESTER CONCRETE OVERLAY	205	CF
PLACE POLYESTER CONCRETE OVERLAY	2,737	SQFT

NORTH FORK PIT RIVER BR. NO. 03-0023

QUANTITIES

REMOVE POLYESTER CONCRETE OVERLAY	3,968	SQFT
REMOVE UNSOUND CONCRETE	20	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,968	SQFT
RAPID SETTING CONCRETE (PATCH)	20	CF
FURNISH POLYESTER CONCRETE OVERLAY	298	CF
PLACE POLYESTER CONCRETE OVERLAY	3,968	SQFT

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove existing AC overlay plus membrane, prepare existing concrete deck, remove unsound concrete and patch with rapid setting concrete and place new 3/4" min. depth polyester concrete overlay. See JOINT SEAL AND DECK OVERLAY DETAILS sheet.
 - Indicates limits of remove existing polyester concrete overlay, prepare existing concrete deck, remove unsound concrete and patch with rapid setting concrete and place new 3/4" min. depth polyester concrete overlay. See JOINT SEAL AND DECK OVERLAY DETAILS sheet.
 - Indicates location of existing sliding plate expansion joint. Clean existing sliding plate expansion joint. Slope new polyester concrete overlay on both sides of joint so that top of overlay is flush with top of plate. For details see "SECTION A-A" on JOINT SEAL AND DECK OVERLAY DETAILS sheet.
 - See Road Plans for transition from top of existing roadway surface to top of new polyester concrete overlay on structure.
 - Indicates approximate location of existing deck bleeder pipes, total 8, to be retained.



 11-9-10 DESIGN ENGINEER	DESIGN	BY H. Moazami	CHECKED K. Truong	LAYOUT	BY G.F. Bidwell	CHECKED H. Moazami	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 139, 299 & 395 BRIDGES GENERAL PLAN NO. 3	
	DETAILS	BY G.F. Bidwell	CHECKED K. Truong	SPECIFICATIONS	BY Huang/Kopsa	CHECKED Mary Kopsa			VARIOUS		
	QUANTITIES	BY H. Moazami	CHECKED K. Truong					POST MILE			
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 3 OF 4

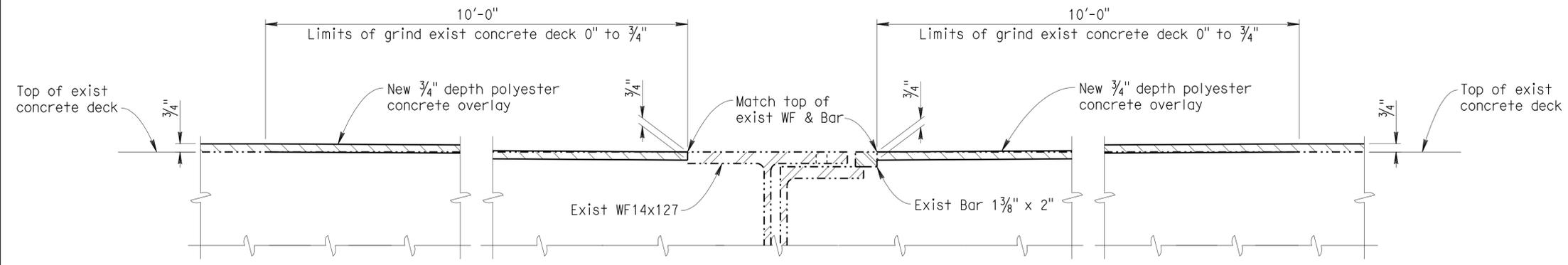
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
O2	Mod	139, 299, 395	VAR	23	23

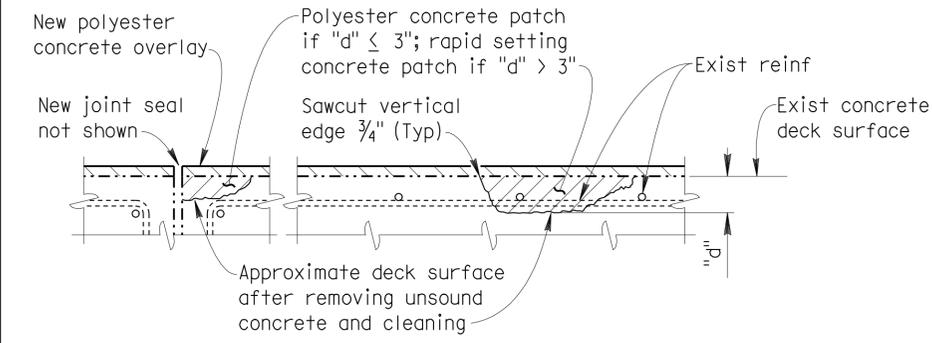
11-9-10
 REGISTERED CIVIL ENGINEER DATE
 12/29/2010
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 HOSSEIN MOZAMI
 No. C 60058
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

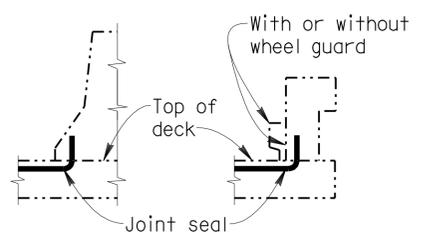


SECTION A-A
BR NO. 03-0019
NO SCALE

- The following notes apply to JOINT SEAL TYPE B:
- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
 - Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
 - W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
 - Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
 - For details not shown see RSP
B6-21



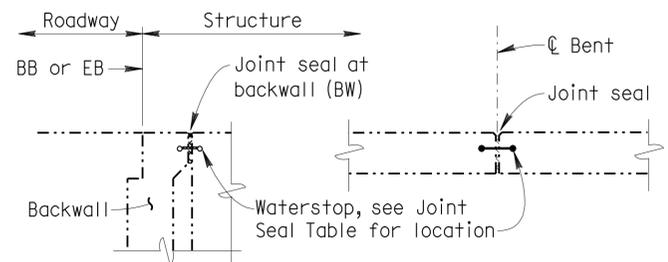
DECK REPAIR DETAIL
Locations to be determined by the Engineer.
Reinforcement may be encountered during deck concrete removal.
NO SCALE



BARRIER RAIL
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

DECK REPAIR TABLE			
REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
HOWARDS GULCH	03-0011	2	3
PEREZ OVERHEAD	03-0033	2	3
RUSH CREEK	03-0003	2	3
RUSH CREEK	03-0004	2	3
PIT RIVER	03-0005	2	3
RATTLESNAKE CREEK	03-0008	2	3
SOUTH FORK PIT RIVER	03-0019	2	3
NORTH FORK PIT RIVER	03-0023	2	3

Locations to be determined by the Engineer.
For details see "DECK REPAIR DETAIL".



ABUTMENT WITH BACKWALL **BENT**
JOINT SEAL LOCATION
NO SCALE

JOINT SEAL TABLE									
LOCATION	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (inches)	APPROX LENGTH (feet)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (inches)	APPROXIMATE DEPTH OF JOINT SPALLS (inches)	APPROXIMATE WIDTH OF JOINT SPALLS (inches)	APPROXIMATE LENGTH OF JOINT SPALLS (feet)
PEREZ OVERHEAD	03-0033	Bent 2	1/2 *	55.3	No	12	3	4	5
		Bent 3	1/2 *	55.3	No	12	3	4	5
PIT RIVER	03-0005	Abut 1	BB	42.4	No	12	3	4	5
		Abut 6	EB	38.8	No	12	3	4	5

LEGEND:
 BB = Paving notch at beginning of bridge
 EB = Paving notch at end of bridge
 C = C Bent
 * = Type B joint seal only

DESIGN BY H. Moazami	CHECKED K. Truong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS	ROUTES 139, 299 & 395 BRIDGES		
DETAILS BY G.F. Bidwell	CHECKED K. Truong		POST MILE VARIOUS		JOINT SEAL AND DECK OVERLAY DETAILS	
QUANTITIES BY H. Moazami	CHECKED K. Truong		VARIES			
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 02601 EA 2E2801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 4 OF 4