

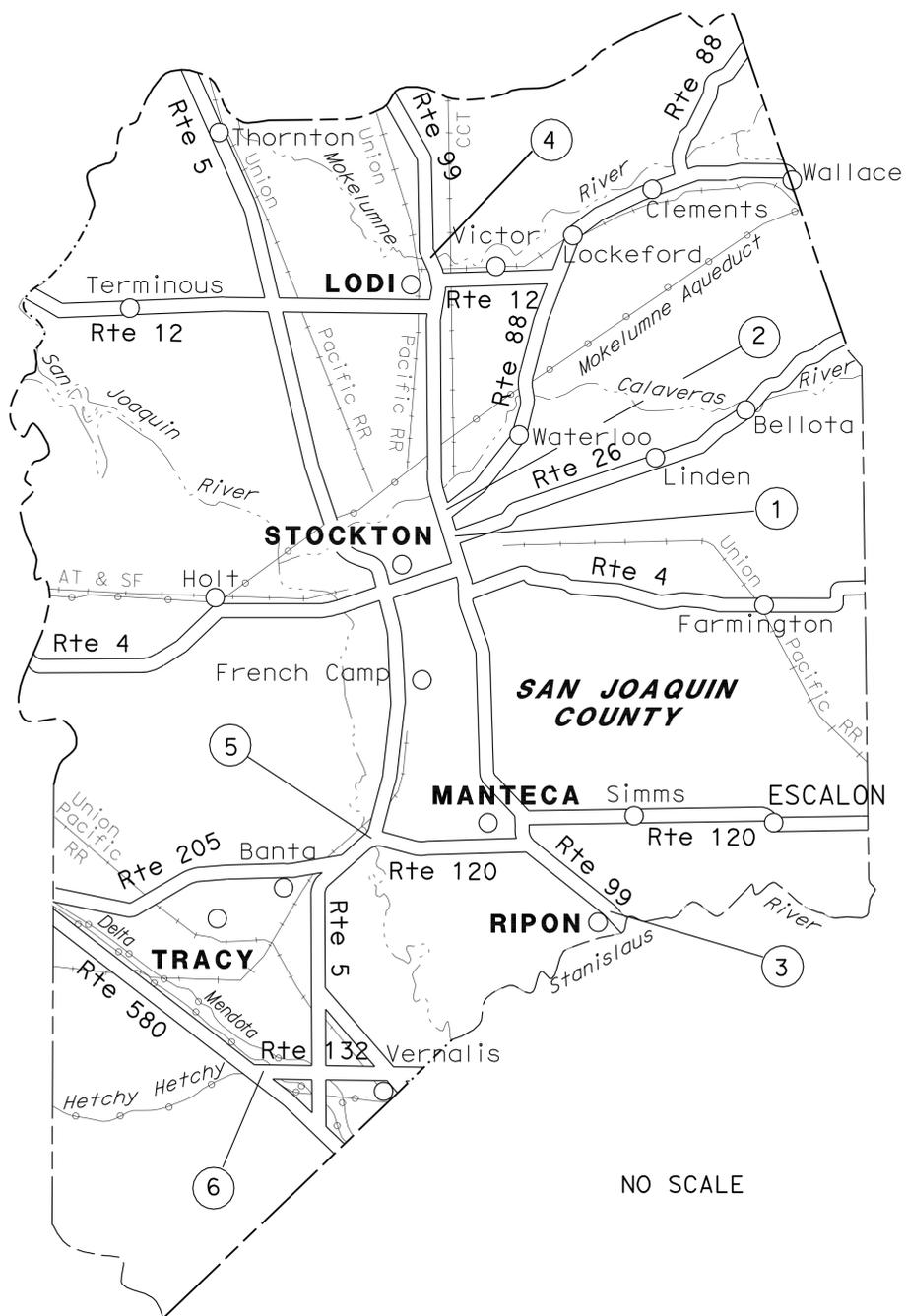
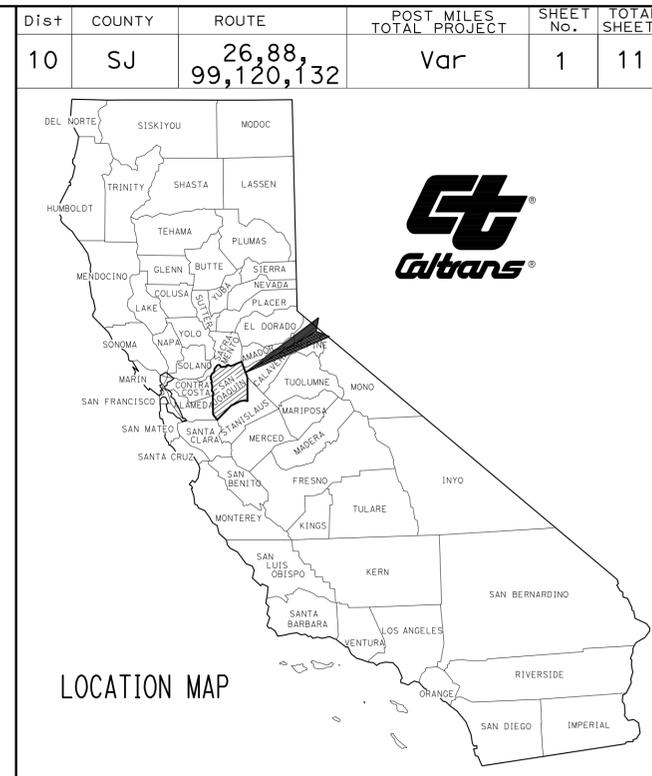
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
3	SUMMARY OF QUANTITIES
4-7	REVISED STANDARD PLANS
STRUCTURE PLANS	
8-11	ROUTE 26/99 SEPARATION

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY**
**IN SAN JOAQUIN COUNTY
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



NO SCALE

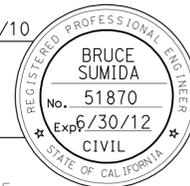
LOCATIONS OF CONSTRUCTION

Loc	Rte	PM	STRUCTURE NAME	BRIDGE No.
①	26	1.11	ROUTE 26/99 SEPARATION	29-0142
②	88	0.01	ROUTE 88/99 SEPARATION	29-0143
③	99	1.71	FULTON AVENUE OC	29-0185
④	99	31.72	MOKELUMNE RIVER BRIDGE	29-0002L
⑤	120	TO.11	WEST Rte 120 - SOUTH Rte 5 CONNECTOR (SAN JOAQUIN RIVER)	29-0016F
⑥	132	LO.68	ROUTE 132 E/580 SEPARATION	29-0161R

PROJECT MANAGER
ALVIN MANGINDIN

DESIGN ENGINEER
ALVIN MANGINDIN

Bruce Sumida 11/10/10
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER



January 3, 2011
PLANS APPROVAL DATE

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

CONTRACT No.	10-OU5704
PROJECT ID	1000000350

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26,88,99,120,132	Var	2	11

Bruce D. Sumida 11/10/10
 REGISTERED CIVIL ENGINEER DATE

1-3-11
 PLANS APPROVAL DATE

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

LOCATION No.	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN CODE	PANEL SIZE	No. OF SIGNS	No. OF POSTS AND SIZE	SIGN MESSAGE
①	26	1.11	ROUTE 26/99 SEPARATION	29-0142	W20-1	36" x 36"	2	1 - 4" x 6"	ROAD WORK AHEAD
					G20-2	36" x 18"	2	1 - 4" x 4"	END ROAD WORK
②	88	0.01	ROUTE 88/99 SEPARATION	29-0143	W20-1	36" x 36"	2	1 - 4" x 6"	ROAD WORK AHEAD
					G20-2	36" x 18"	2	1 - 4" x 4"	END ROAD WORK
③	99	1.71	FULTON AVENUE OC	29-0185	W20-1	36" x 36"	2	1 - 4" x 6"	ROAD WORK AHEAD
					G20-2	36" x 18"	2	1 - 4" x 4"	END ROAD WORK
④	99	31.72	MOKELUMNE RIVER BRIDGE	29-0002L	W20-1	48" x 48"	1	1 - 6" x 6"	ROAD WORK AHEAD
					G20-2	48" x 24"	1	1 - 4" x 6"	END ROAD WORK
⑤	120	T0.11	WEST Rte 120 - SOUTH Rte 5 CONNECTOR (SAN JOAQUIN RIVER)	29-0016F	W20-1	48" x 48"	1	1 - 6" x 6"	ROAD WORK AHEAD
					G20-2	48" x 24"	1	1 - 4" x 6"	END ROAD WORK
⑥	132	L0.68	ROUTE 132 E/580 SEPARATION	29-0161R	W20-1	36" x 36"	1	1 - 4" x 6"	ROAD WORK AHEAD
					G20-2	36" x 18"	1	1 - 4" x 4"	END ROAD WORK

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE
 FUNCTIONAL SUPERVISOR
 ALVIN MANGINDIN
 CALCULATED/DESIGNED BY
 CHECKED BY
 THOA HUYNH
 BRUCE SUMIDA
 REVISED BY
 DATE REVISED
 BS
 11/01/10

CONSTRUCTION AREA SIGNS
CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

LAST REVISION | DATE PLOTTED => 06-JAN-2011
 00-00-00 | TIME PLOTTED => 10:51

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR
 ALVIN MANGINDIN
 CALCULATED/DESIGNED BY
 CHECKED BY
 THOA HUYNH
 BRUCE SUMIDA
 REVISED BY
 DATE REVISED
 BS
 11/10/10

NOTES:

- (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
- TRAFFIC MANAGEMENT SYSTEM ELEMENT LOCATIONS ARE APPROXIMATE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26,88,99,120,132	Var	3	11

11/10/10
 REGISTERED CIVIL ENGINEER DATE
 1-3-11
 PLANS APPROVAL DATE

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

TRAFFIC MANAGEMENT SYSTEM ELEMENTS (EXISTING)

LOCATION No.	ROUTE	PM	LOCATION	TYPE	DESCRIPTION
1	26	1.11	Jct Rte 99	TMS	TRAFFIC MONITORING STATION
	26	1.38	ORO St	SIGNAL	SIGNAL
2	88	0.40	WILCOX Rd	TMS	TRAFFIC MONITORING STATION
3	99	1.70	MILGEO OC	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
	99	1.70	MILGEO OC	CMS	CHANGEABLE MESSAGE SIGN
	99	1.71	MILGEO OC	TMS	TRAFFIC MONITORING STATION
	99	1.71	MILGEO OC	TMS	TRAFFIC MONITORING STATION
	99	1.71	MILGEO OC	CCTV	CLOSED CIRCUIT TELEVISION
	99	2.27	ON & OFF-RAMPS JACKTONE Rd	SIGNAL	SIGNAL
4	99	31.58	LODI, TURNER Rd	TMS	TRAFFIC MONITORING STATION
5	120	R0.49	MOSSDALE, Jct Rte 5	TMS	TRAFFIC MONITORING STATION
	120	R0.49	MOSSDALE, Jct Rte 5	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
	120	R0.59	MOSSDALE, Jct Rte 5	CMS	CHANGEABLE MESSAGE SIGN

PAVEMENT DELINEATION ITEMS

LOCATION No.	ROUTE	PM	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC TRAFFIC STRIPE						REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)						
					4" YELLOW			4" WHITE		8" WHITE		TYPE D	TYPE G			TYPE H		
					DETAIL 22	DETAIL 25	DETAIL 25A	DETAIL 12	DETAIL 27B	DETAIL 37		DETAIL 38	DETAIL 22	DETAIL 12	DETAIL 37	DETAIL 38	DETAIL 25	DETAIL 25A
			LF	LF				LF			EA					EA		
3	99	1.71	660	660	660				660			60						
4	99	31.72	833	2499		833		833	833	610	223		19	22	11	19		
5	120	T0.11	583	1166			583	583	583				14			26		
SUBTOTAL			2076	4325	660	833	583	1416	2076	610	223	171	60	33	22	11	19	26
TOTAL			2076	4325	5568				833		171	171						

SUMMARY OF QUANTITIES
Q-1



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	26,88, 99,120,132	Var	4	11

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

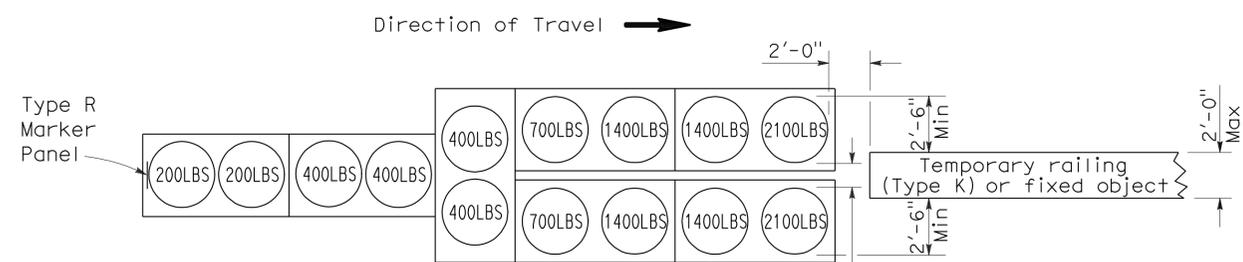
June 6, 2008
PLANS APPROVAL DATE

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.

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

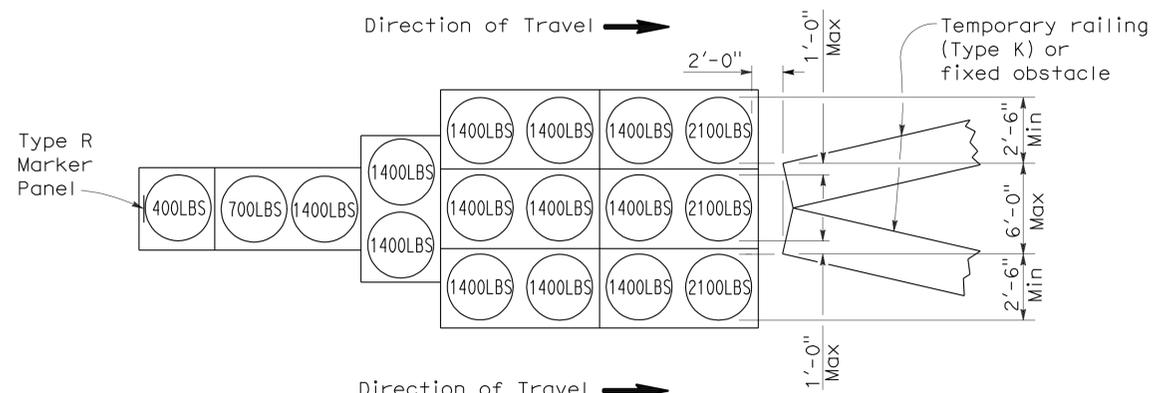
To accompany plans dated 1-3-11

2006 REVISED STANDARD PLAN RSP T1A



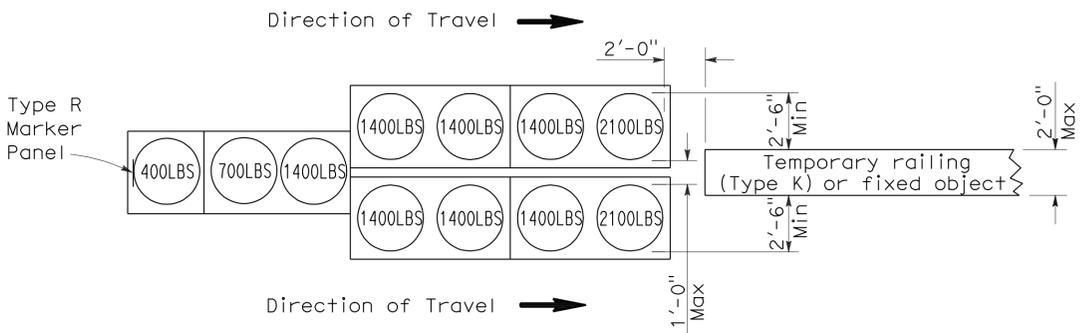
ARRAY 'TU14'

Approach speed 45 mph or more



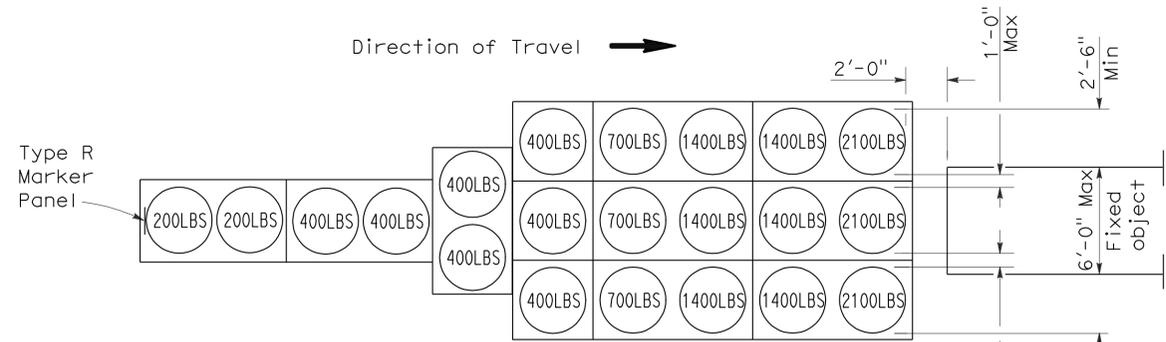
ARRAY 'TU17'

Approach speed less than 45 mph



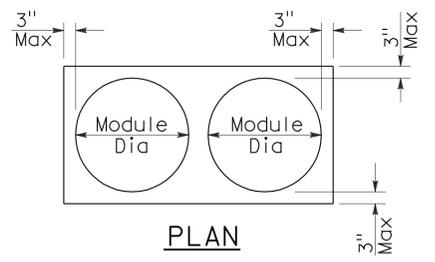
ARRAY 'TU11'

Approach speed less than 45 mph

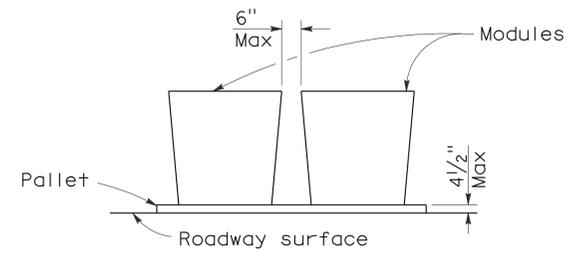


ARRAY 'TU21'

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

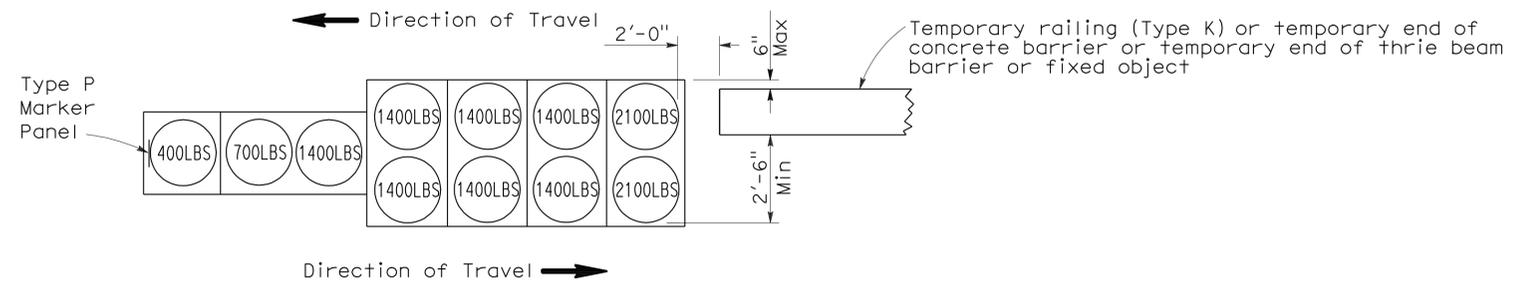
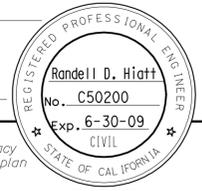
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	26,88, 99,120,132	Var	5	11

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

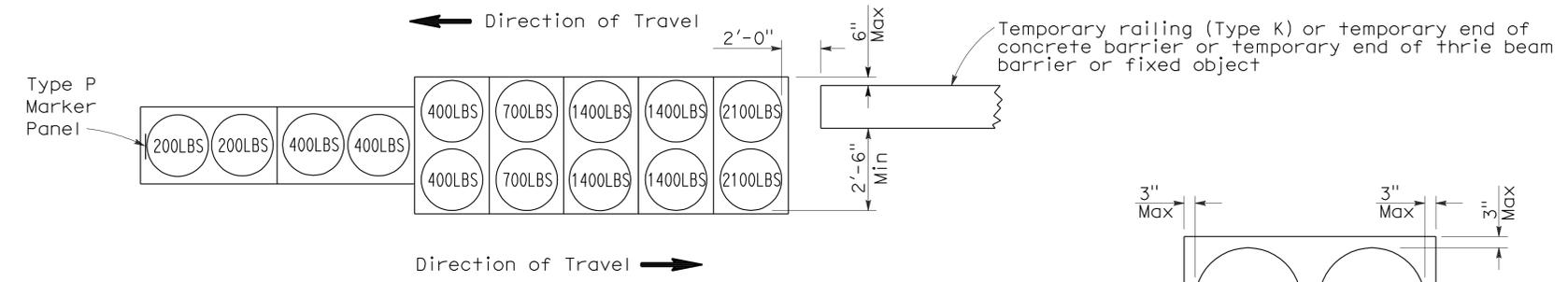
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1-3-11



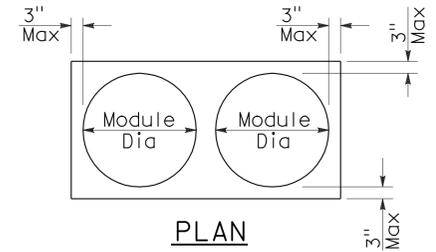
ARRAY 'TB11'

Approach speed less than 45 mph

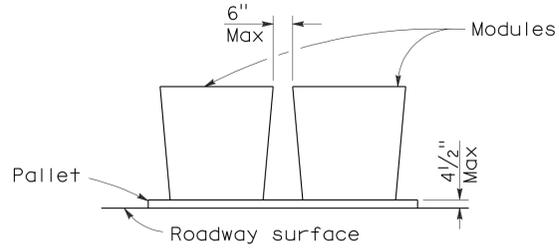


ARRAY 'TB14'

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

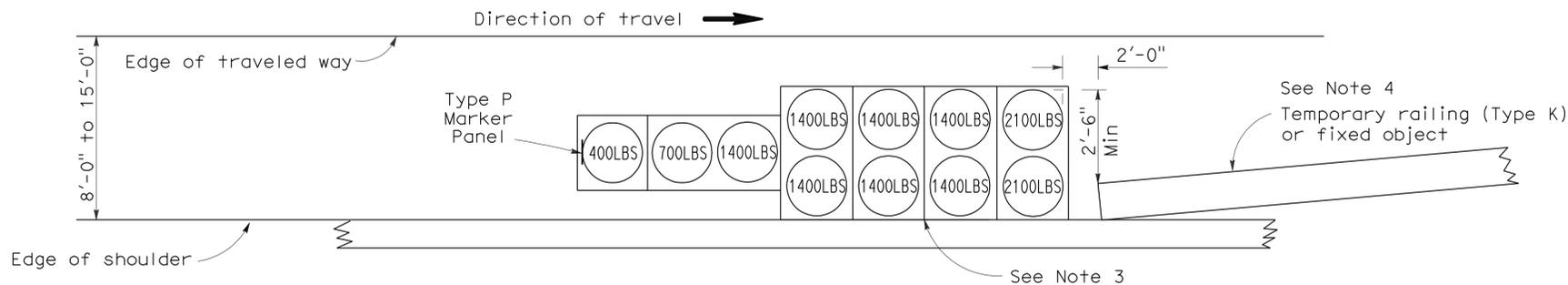
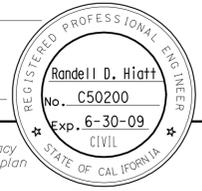
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	26,88, 99,120,132	Var	6	11

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

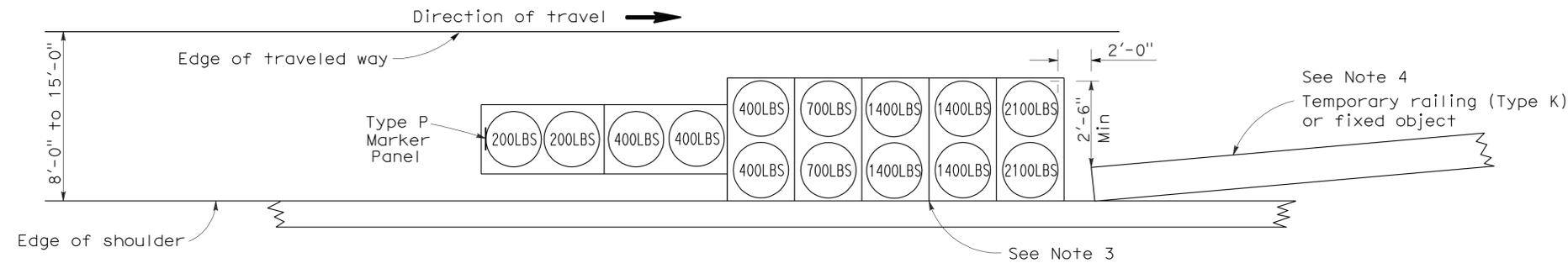
June 6, 2008
PLANS APPROVAL DATE

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

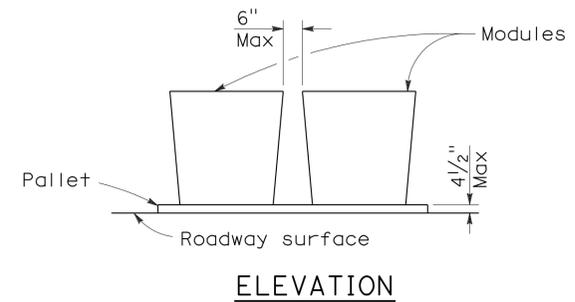
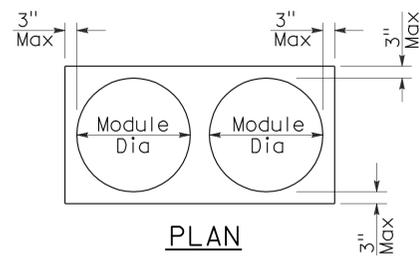
To accompany plans dated 1-3-11



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



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



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

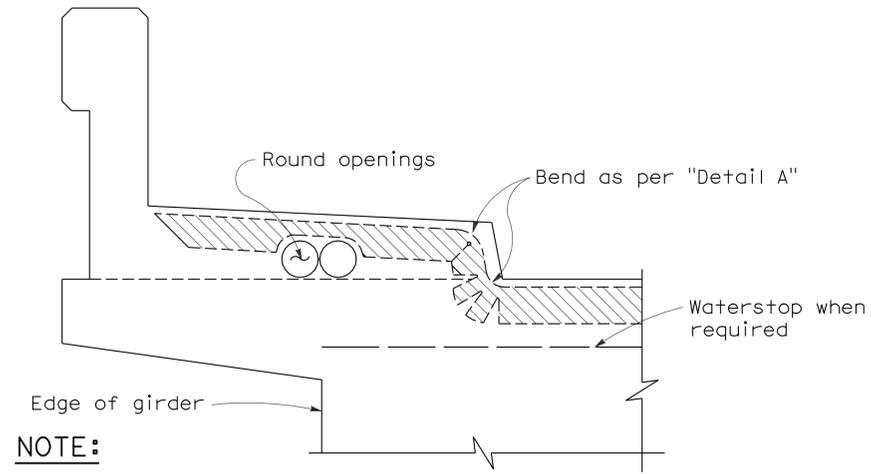
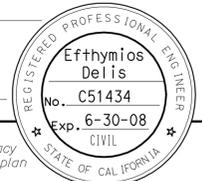
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

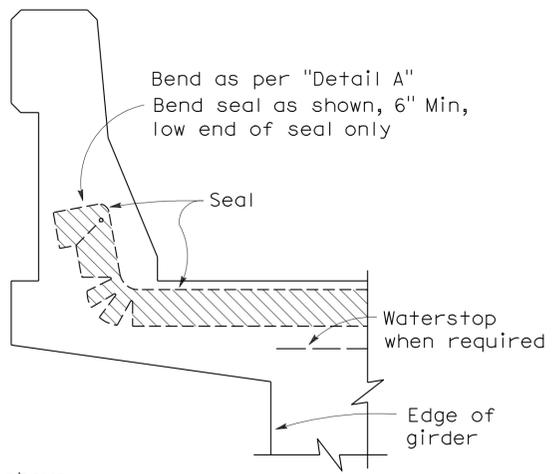
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

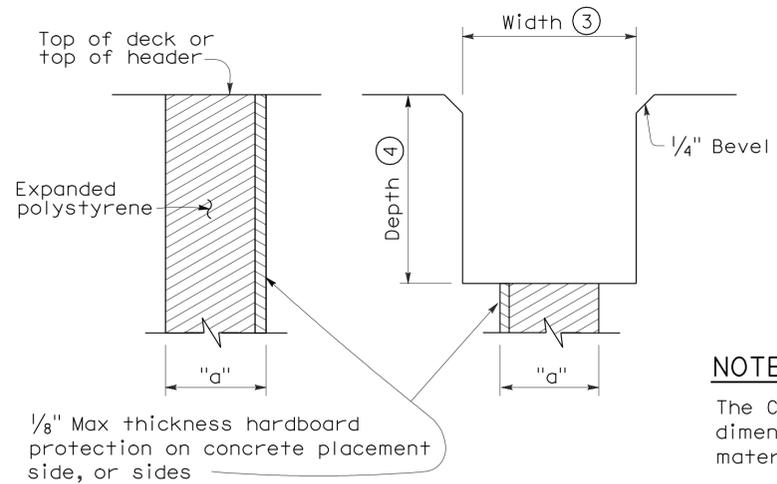


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



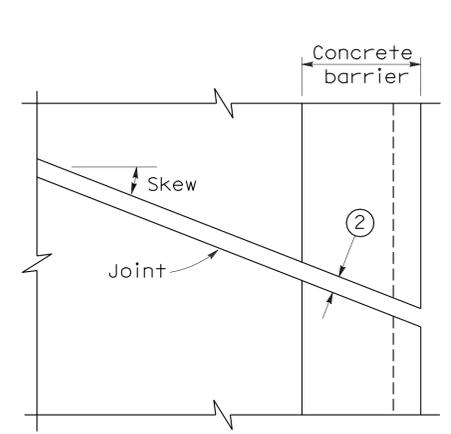
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

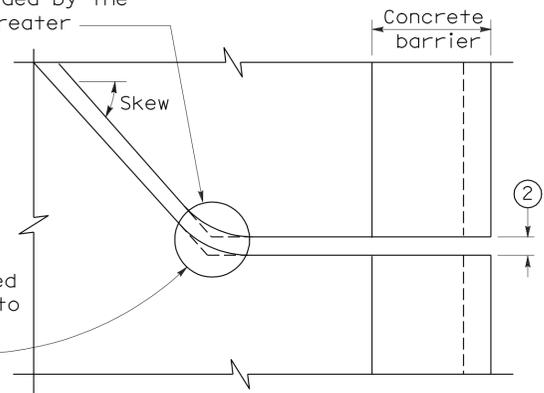
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



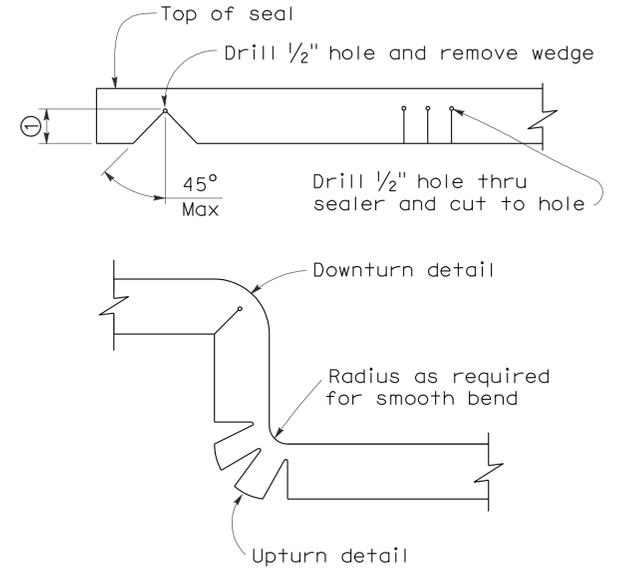
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



PLAN OF JOINT (SKEW > 20°)

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



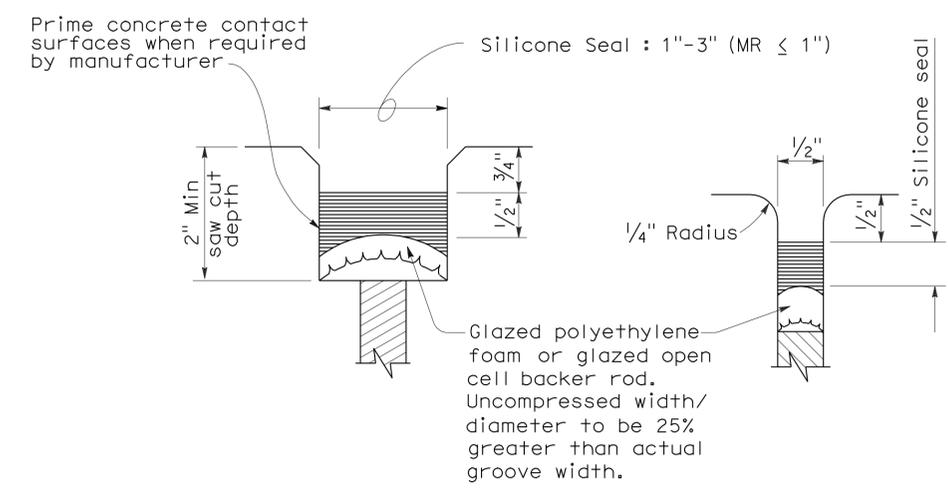
DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
 - Opening in barrier to match width of sawn deck joint.
 - Sawcut groove widths shall be as ordered by the Engineer.
 - Depth of sawcut: Type A - Depth to be 2" minimum.
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W₂) plus dimensions shown.
 - MR (movement rating) as shown on other plan sheets.
 - Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

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

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

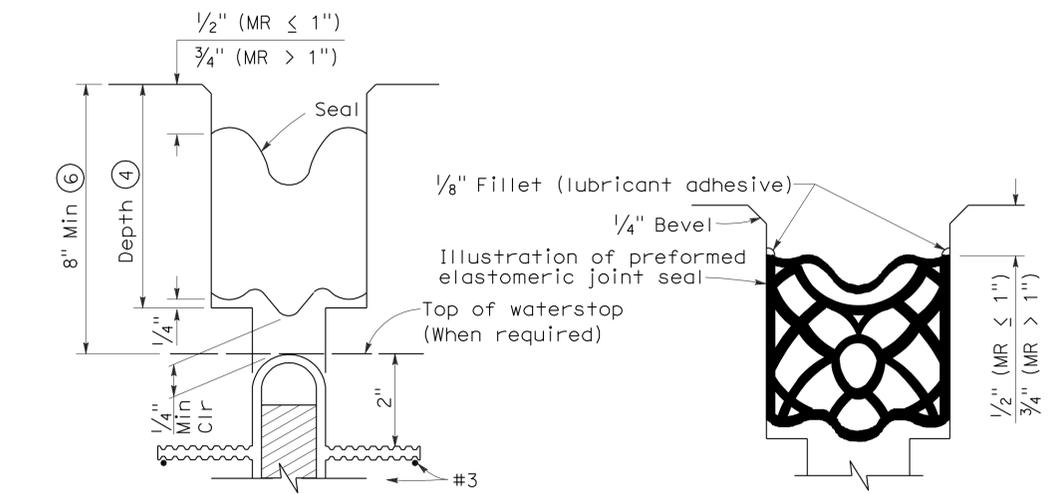


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

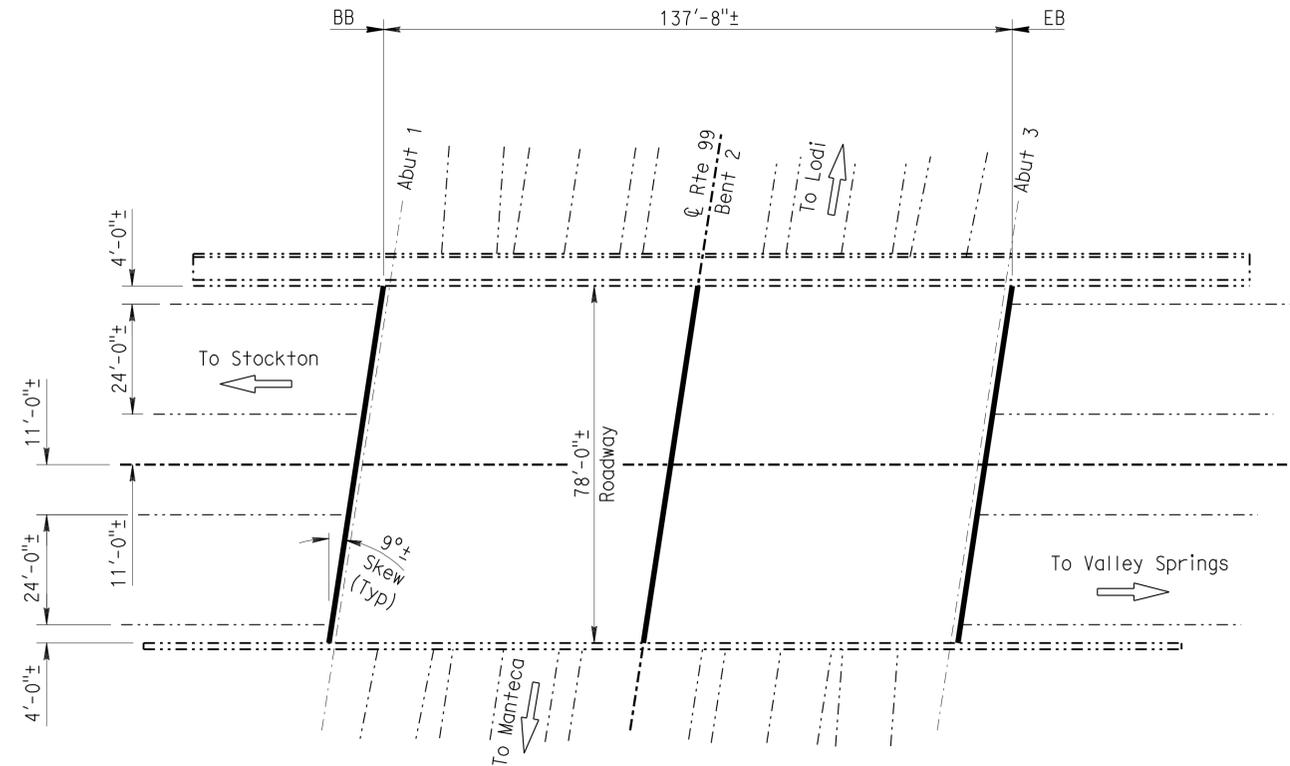
Movement Rating ≤ 2"

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	26,88,99,120,132	Var	8	11

REGISTERED CIVIL ENGINEER DATE 9-28-10
 PLANS APPROVAL DATE 1-3-11
 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
TIMOTHY J. POWELL
 No. C 61037
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA



QUANTITIES

CLEAN EXPANSION JOINT	240 LF
JOINT SEAL (MR 1/2")	160 LF
JOINT SEAL (MR 1")	80 LF

NOTES: (APPLY TO ALL SHEETS)

----- Indicates existing structure.

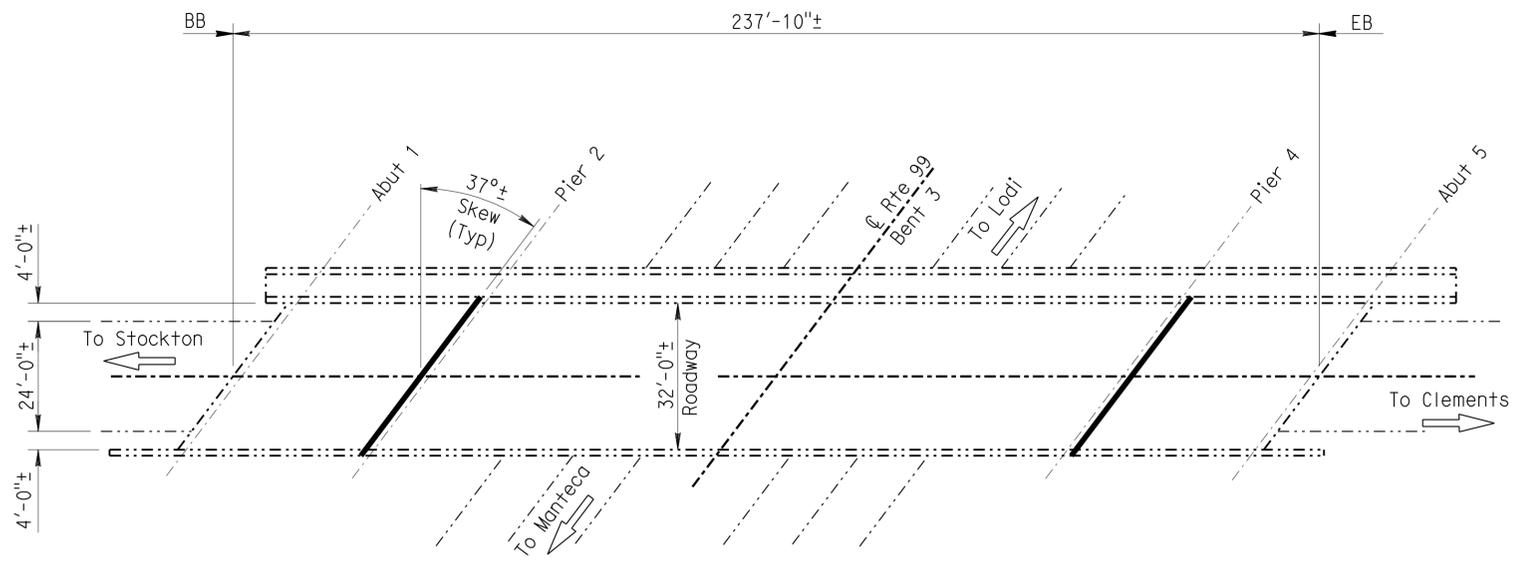
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

○ STANDARD PLAN SHEET NUMBER
 ○ DETAIL NUMBER

NOTES: (APPLY TO THIS SHEET ONLY)

— Indicates location of remove existing joint seal and place new joint seal. See JOINT SEAL TABLE on "JOINT SEAL DETAILS" sheet.

ROUTE 26/99 SEPARATION
 BR NO. 29-0142, ROUTE 26, PM 1.11
 1" = 20'



QUANTITIES

CLEAN EXPANSION JOINT	82 LF
JOINT SEAL (MR 1")	82 LF

INDEX TO PLANS

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

ROUTE 88/99 SEPARATION
 BR NO. 29-0143, ROUTE 88, PM 0.01
 1" = 20'

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")

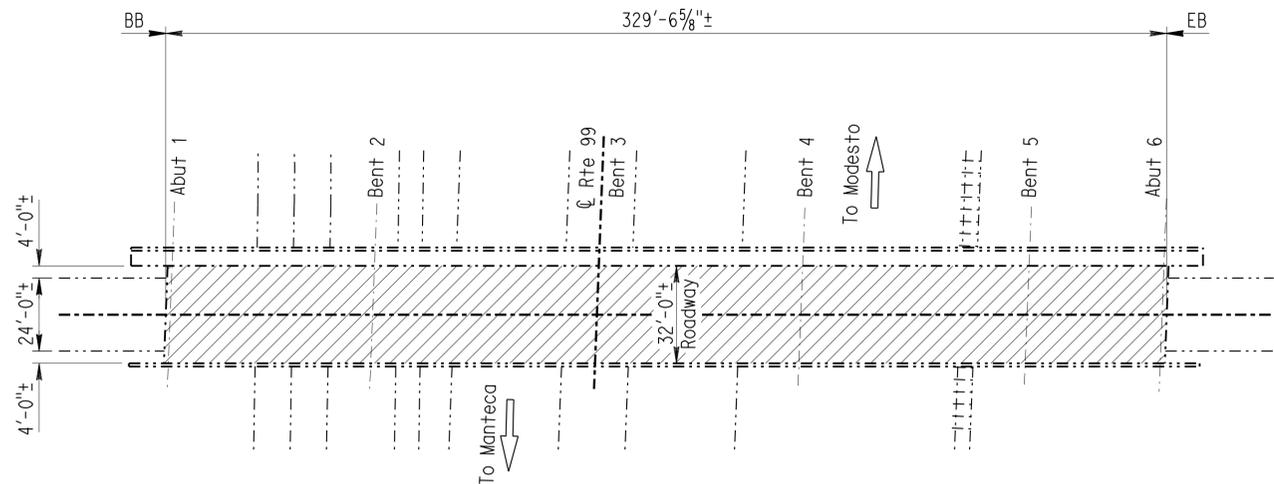
 DESIGN ENGINEER 9-28-10	DESIGN	BY P. Gagnier	CHECKED T. Powell	LAYOUT	BY M. Hallstrom	CHECKED T. Powell	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 26/99 SEPARATION (TREAT DECK & REPLACE JOINT SEALS) GENERAL PLAN NO. 1
	DETAILS	BY M. Hallstrom	CHECKED T. Powell	SPECIFICATIONS	BY T. Chen	CHECKED T. Powell			POST MILE	VARIES	
	QUANTITIES	BY P. Gagnier	CHECKED T. Powell	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 10 EA OUS701			DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	26, 88, 99, 120, 132	Var	9	11

9-28-10
 REGISTERED CIVIL ENGINEER DATE
 1-3-11
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 TIMOTHY J. POWELL
 No. C 61037
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA



QUANTITIES

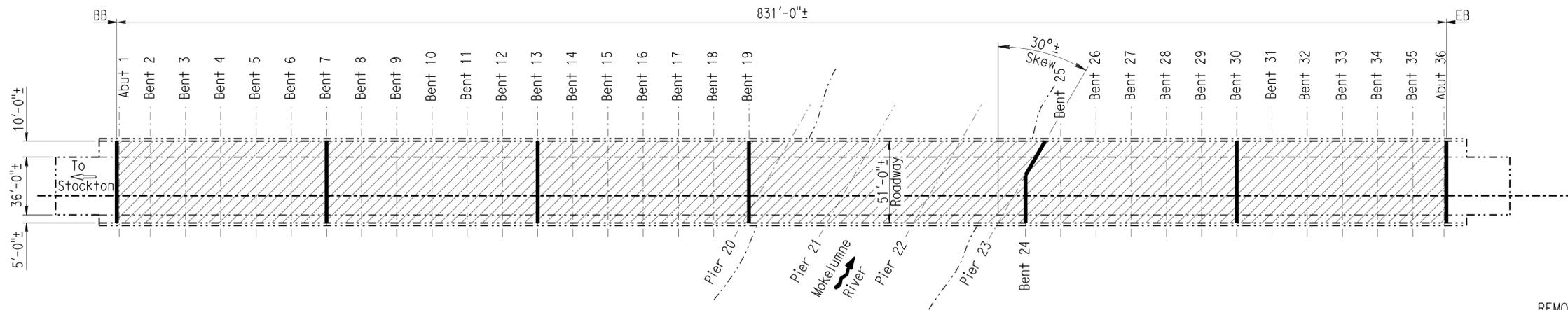
REMOVE UNSOUND CONCRETE	27	CF
CLEAN BRIDGE DECK	10,548	SQFT
RAPID SETTING CONCRETE (PATCH)	27	CF
TREAT BRIDGE DECK	10,548	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	120	GAL
PUBLIC SAFETY PLAN		LUMP SUM

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Remove unsound concrete and patch with rapid setting concrete prior to bridge deck treatment. See DECK REPAIR TABLE on "JOINT SEAL DETAILS" sheet.

Indicates location of remove existing joint seal and place new joint seal. See JOINT SEAL TABLE on "JOINT SEAL DETAILS" sheet

FULTON AVENUE OVERCROSSING
 BR NO. 29-0185, ROUTE 99, PM 1.71
 1' = 30'



QUANTITIES

REMOVE UNSOUND CONCRETE	530	CF
CLEAN BRIDGE DECK	42,381	SQFT
CLEAN EXPANSION JOINT	368	LF
RAPID SETTING CONCRETE (PATCH)	530	CF
JOINT SEAL (MR 1/2")	104	LF
JOINT SEAL (MR 1")	104	LF
JOINT SEAL (MR 1 1/2")	160	LF
TREAT BRIDGE DECK	42,381	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	470	GAL
PUBLIC SAFETY PLAN		LUMP SUM

MOKELUMNE RIVER BRIDGE
 BR NO. 29-0002L, ROUTE 99, PM 31.72
 1' = 40'

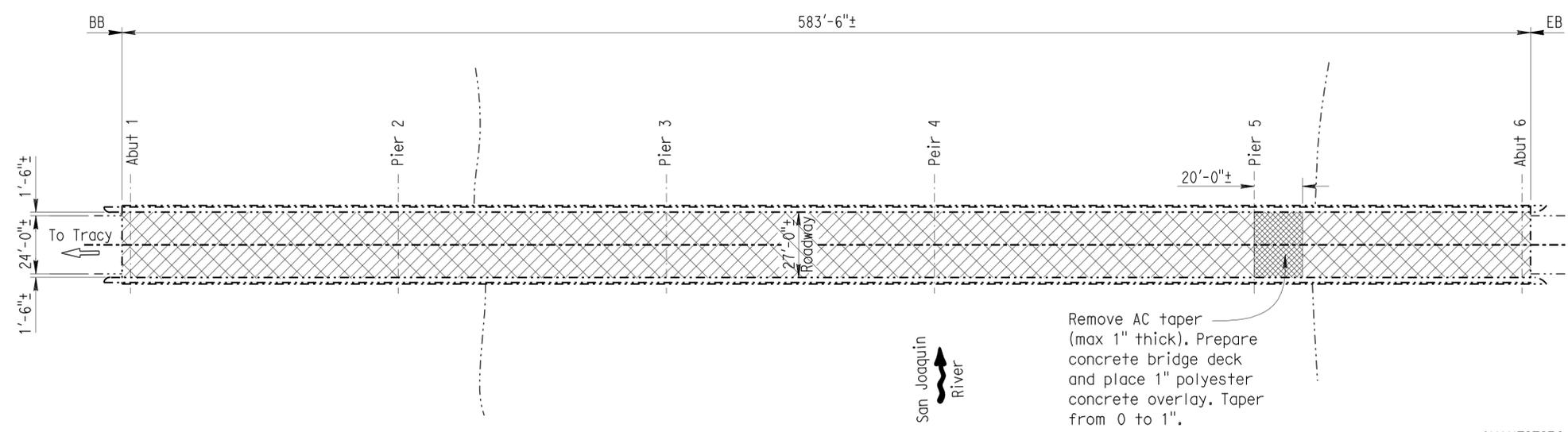
 9-28-10 DESIGN ENGINEER	DESIGN	BY P. Gagnier	CHECKED T. Powell	LAYOUT	BY M. Hallstrom	CHECKED T. Powell	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 26/99 SEPARATION (TREAT DECK & REPLACE JOINT SEALS) GENERAL PLAN NO. 2		
	DETAILS	BY M. Hallstrom	CHECKED T. Powell	SPECIFICATIONS	BY T. Chen	CHECKED T. Powell			VARIOUS			
	QUANTITIES	BY P. Gagnier	CHECKED T. Powell			CHECKED T. Powell			POST MILE			
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)								ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 10 EA OUS701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 2 OF 4

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	26,88, 99,120,132	Var	10	11

T. Powell
 REGISTERED CIVIL ENGINEER
 DATE 9-28-10
 PLANS APPROVAL DATE 1-3-11
 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
 TIMOTHY J. POWELL
 No. C 61037
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA



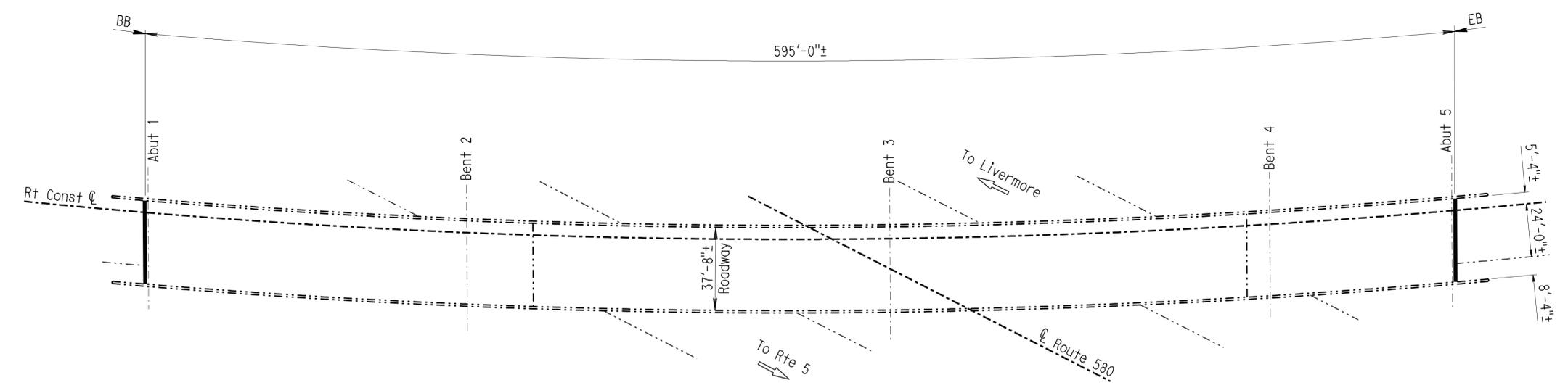
W120-S5 CONNECTOR

BR NO. 29-0016F, ROUTE 120, PM T000.11
1' = 30'

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	540	SQFT
REMOVE EPOXY CHIP SEAL	15,215	SQFT
REMOVE UNSOUND CONCRETE	40	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	540	SQFT
CLEAN BRIDGE DECK	15,215	SQFT
RAPID SETTING CONCRETE (PATCH)	40	CF
FURNISH POLYESTER CONCRETE OVERLAY	54	CF
PLACE POLYESTER CONCRETE OVERLAY	540	SQFT
TREAT BRIDGE DECK	15,215	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	202	GAL

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove epoxy grit overlay and clean and treat bridge deck with high molecular weight methacrylate. Remove unsound concrete and patch with rapid setting concrete prior to bridge deck treatment. See DECK REPAIR TABLE on "JOINT SEAL DETAILS" sheet.
 - Indicates location of remove existing joint seal and place new joint seal. See JOINT SEAL TABLE on "JOINT SEAL DETAILS" sheet.



ROUTE 132 E/580 SEPARATION

BR NO. 29-0161R, ROUTE 132, PM L000.68
1' = 30'

QUANTITIES

CLEAN EXPANSION JOINT	78	LF
JOINT SEAL (MR 1/2")	39	LF
JOINT SEAL (MR 1")	39	LF

Michael J. Lee
DESIGN ENGINEER
9-28-10

DESIGN	BY P. Gagnier	CHECKED T. Powell
DETAILS	BY M. Hallstrom	CHECKED T. Powell
QUANTITIES	BY P. Gagnier	CHECKED T. Powell

LAYOUT	BY M. Hallstrom	CHECKED T. Powell
SPECIFICATIONS	BY T. Chen	CHECKED T. Powell

PLANS AND SPECIFICATIONS COMPARED
T. Powell

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

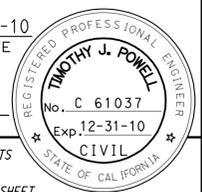
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 26/99 SEPARATION (TREAT DECK & REPLACE JOINT SEALS)
GENERAL PLAN NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	26,88,99,120,132	Var	11	11

9-28-10
 REGISTERED CIVIL ENGINEER DATE
 1-3-10
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (inches)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXPANSION JOINT (inches)
ROUTE 26/99 SEPARATION	29-0142	Abut 1 BW	1/2	80	No	12.0
		Bent 2 H	1	80	No	12.0
		Abut 3 BW	1/2	80	No	12.0
ROUTE 88/99 SEPARATION	29-0143	Pier 2 BW	1	41	Yes	12.0
		Pier 4 BW	1	41	Yes	12.0
MOKELUMNE RIVER BRIDGE	29-0002L	Abut 1 BW	1/2	52	Yes	12.0
		Bent 7 H	1 1/2	52	Yes	12.0
		Bent 13 H	1	52	Yes	12.0
		Bent 19 H	1 1/2	52	Yes	12.0
		Pier 24 H	1 1/2	56	Yes	12.0
		Bent 30 H	1	52	Yes	12.0
		Abut 36 BW	1/2	52	Yes	12.0
ROUTE 132 E/580 SEPARATION	29-0161R	Abut 1 BW	1	39	No	12.0
		Abut 5 BW	1/2	39	No	12.0

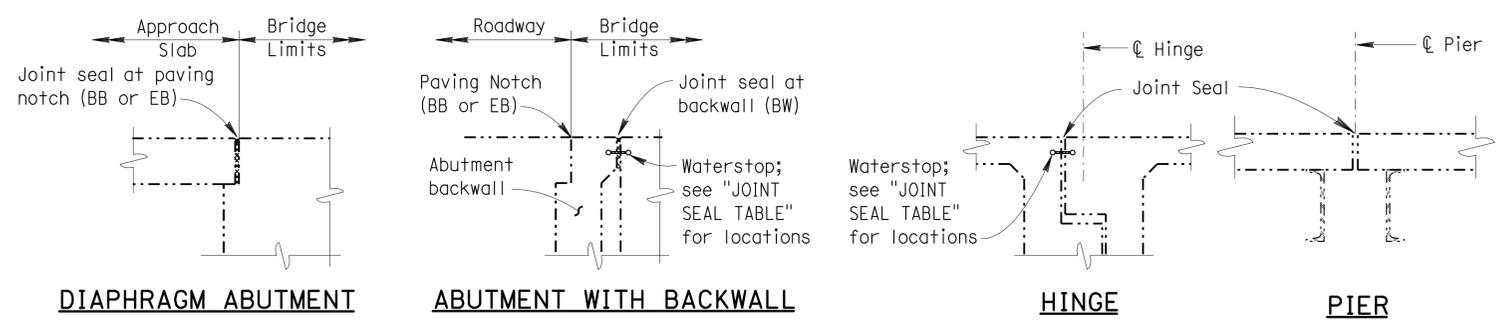
LEGEND:
 BW = Backwall
 H = Hinge
 PN = Paving Notch

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

- 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:
 - A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 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

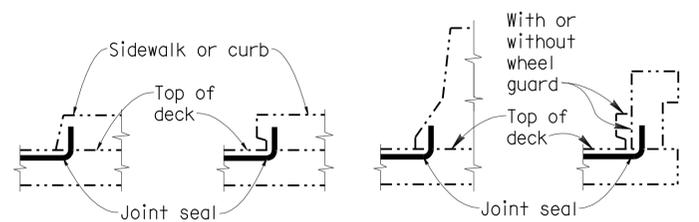
DECK REPAIR TABLE

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
FULTON AVENUE OVERCROSSING	29-0185	1	3
MOKELUMNE RIVER BRIDGE	29-0002L	5	3
W120-S5 CONNECTOR	29-0016F	1	3



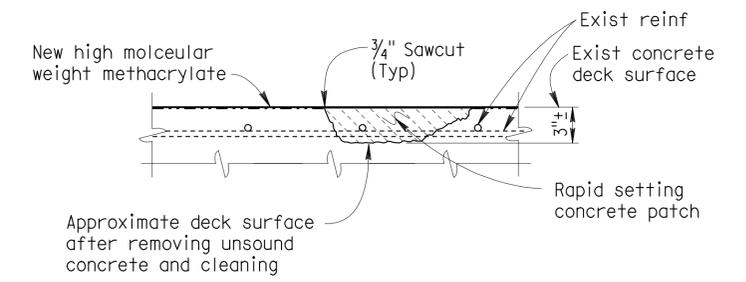
JOINT SEAL LOCATION

NO SCALE



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 DETAIL

Reinforcement may be encountered during deck concrete removal and is to remain undamaged.
 NO SCALE

DESIGN	BY P. Gagnier	CHECKED T. Powell
DETAILS	BY M. Hallstrom	CHECKED T. Powell
QUANTITIES	BY P. Gagnier	CHECKED T. Powell

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIOUS
ROUTE 26/99 SEPARATION (TREAT DECK & REPLACE JOINT SEALS)
JOINT SEAL DETAILS