

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION DETAILS
3	PAVEMENT DELINEATION QUANTITIES
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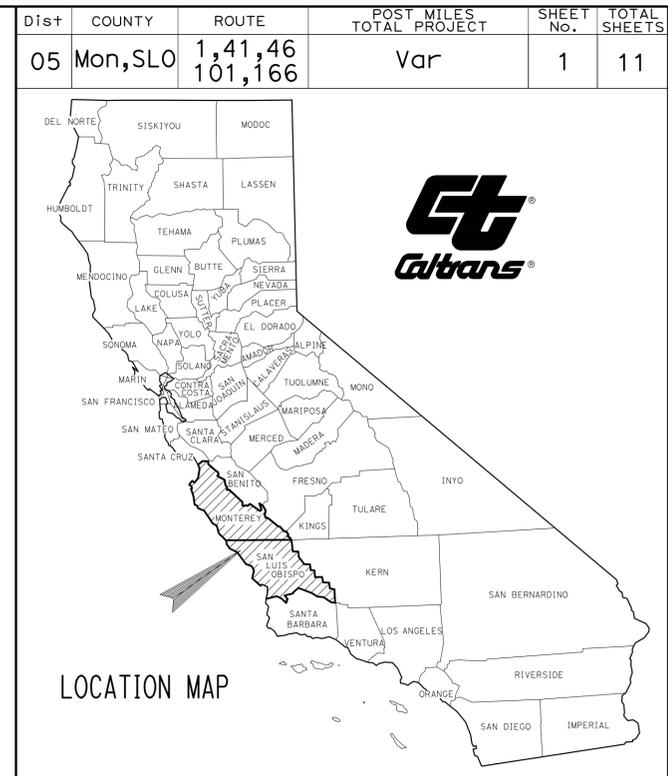
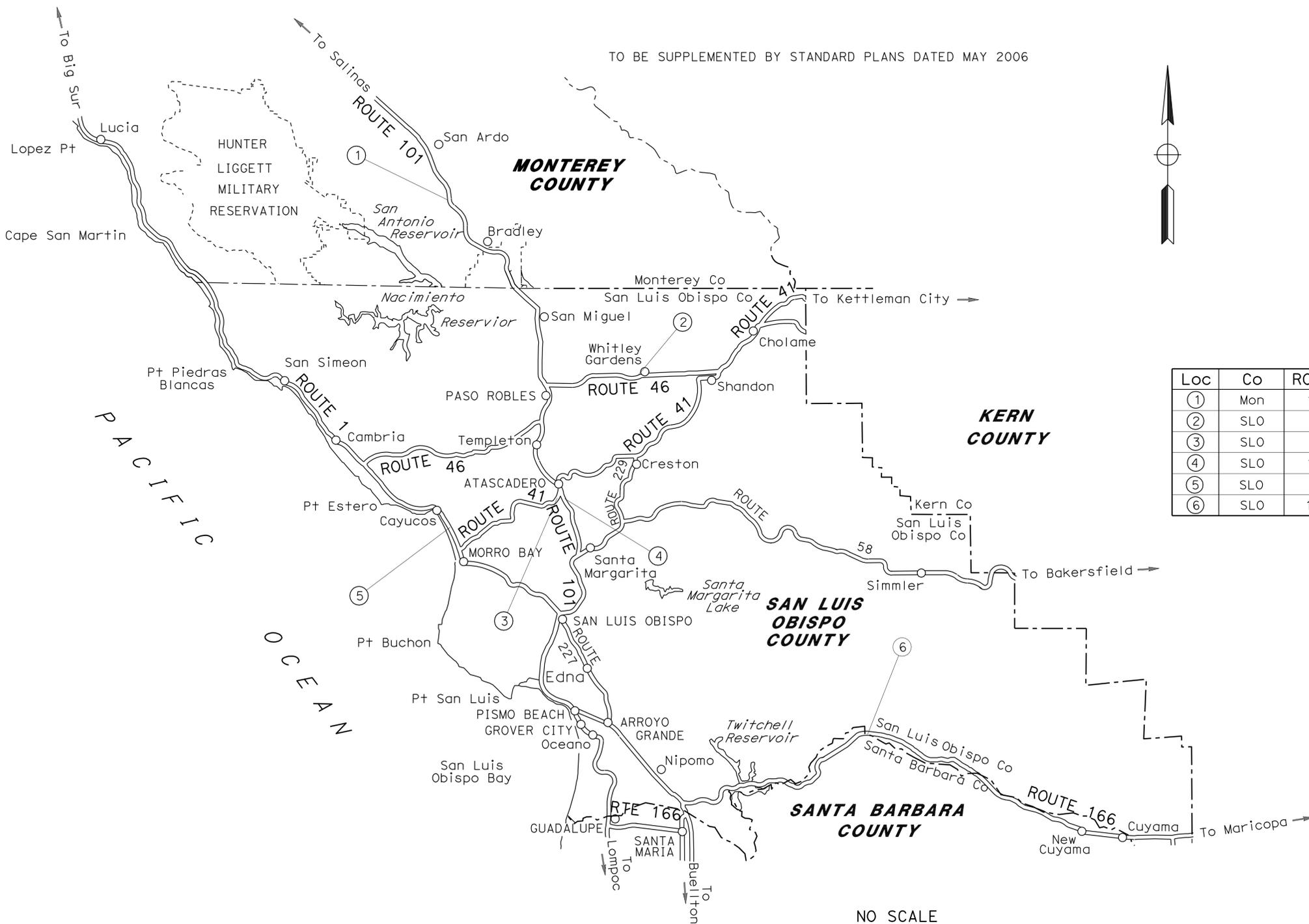
STRUCTURE PLANS

8-11 ROUTES 1, 41, 46, 101 AND 166 BRIDGES

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY**
IN MONTEREY AND SAN LUIS OBISPO COUNTIES
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATIONS OF CONSTRUCTION

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.
①	Mon	101	R29.90	LOCKWOOD-SAN LUCAS ROAD UC	44 0183R
②	SLO	46	39.95	ESTRELLA RIVER BRIDGE	49 0033
③	SLO	41	13.29	ATASCADERO CREEK BRIDGE	49 0051
④	SLO	101	44.01	SANTA ROSA ROAD OC	49 0160
⑤	SLO	1	34.46	OLD CREEK BRIDGE	49 0070L
⑥	SLO	166	R51.02	CUYAMA RIVER BRIDGE	49 0043

PROJECT MANAGER
K. J. McCLAIN

DESIGN ENGINEER
K. J. McCLAIN

K.L. McKinley 11-04-09
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

January 19, 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.



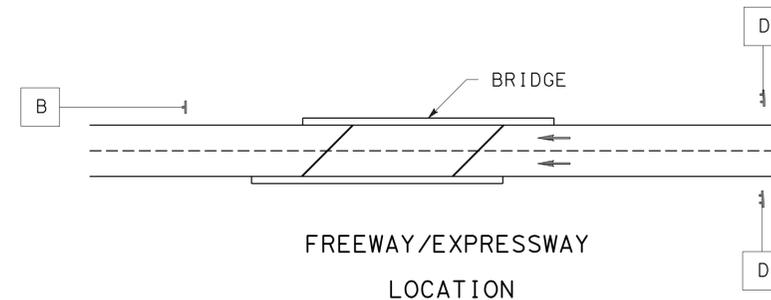
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NOTES:

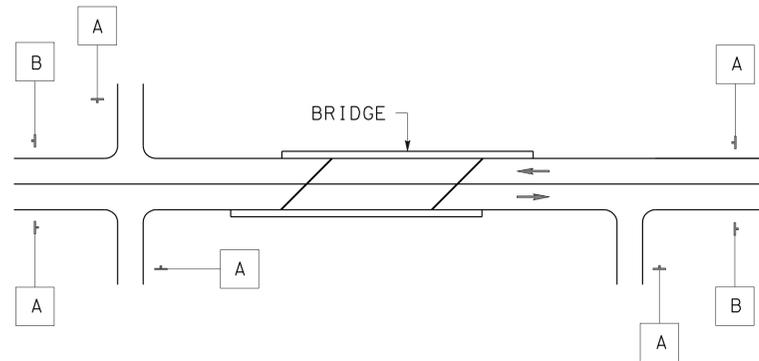
- EXACT LOCATION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- SPECIAL SIGN "C" TO BE USED WHEN EXISTING STRUCTURE HAS SIDEWALKS.

LEGEND

-  CONSTRUCTION AREA SIGN
-  DIRECTION OF TRAVEL
-  TYPE II BARRICADE



Loc	Co	ROUTE	PM	NAME OF BRIDGE	BRIDGE No.
①	Mon	101	R29.9	LOCKWOOD-SAN LUCAS RD UC	44 0183R

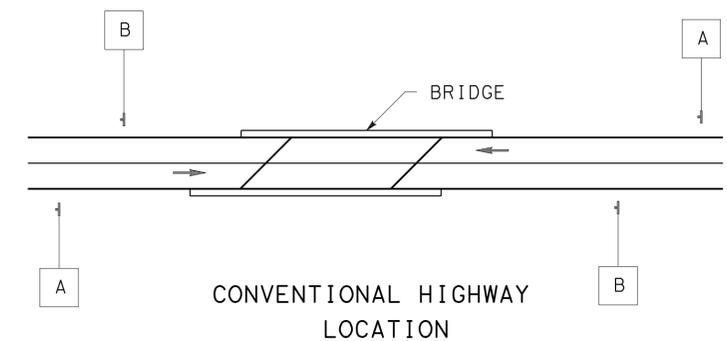


BRIDGE WITH ADJACENT INTERSECTIONS ON CONVENTIONAL HIGHWAY
LOCATION

Loc	Co	ROUTE	PM	NAME OF BRIDGE	BRIDGE No.
②	SLO	46	40.0	ESTRELLA RIVER Br	49 0033
⑤	SLO	1	34.5	OLD CREEK Br	49 0070L



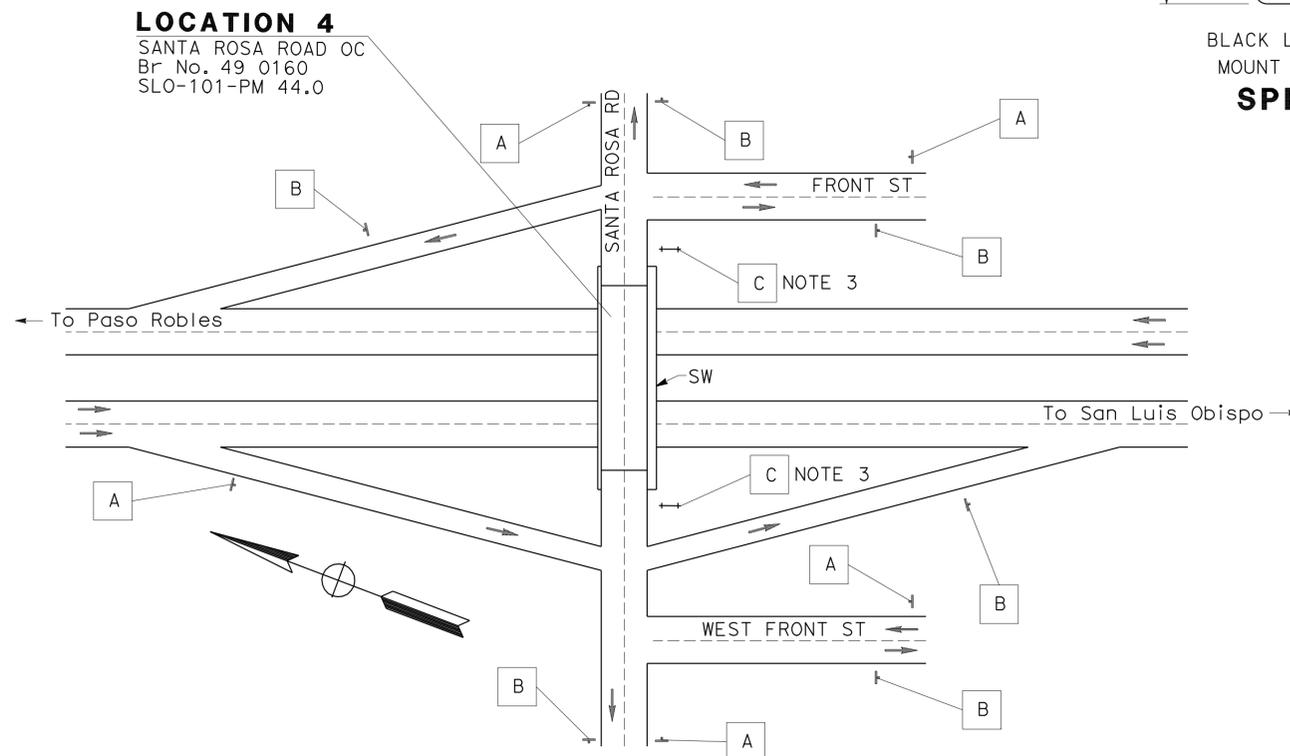
BLACK LETTERS ON WHITE BACKGROUND
MOUNT PANEL ON TYPE II BARRICADE
SPECIAL SIGN "C"



Loc	Co	ROUTE	PM	NAME OF BRIDGE	BRIDGE No.
③	SLO	41	13.3	ATASCADERO CREEK Br	49 0051
⑥	SLO	166	R51.0	CUYAMA RIVER Br	49 0043

CONSTRUCTION AREA SIGNS

SIGN	CODE	MESSAGE	PANEL SIZE (in x in)	No. OF SIGNS	No. OF POSTS AND SIZE (in x in)	REMARKS
A	W20-1	ROAD WORK AHEAD	48 x 48	19	1 - 4 x 6	STATIONARY MOUNTED
B	G20-2	END ROAD WORK	48 x 24	15	1 - 4 x 6	STATIONARY MOUNTED
C	"C"	SIDEWALK CLOSED PEDESTRIANS PROHIBITED	24 x 24	2		BARRICADE MOUNTED. TO BE USED ONLY WHEN WORK IS IN PROGRESS AND WITHIN 6 ft OF SW
D	W20-1	ROAD WORK AHEAD	72 x 72	2	2 - 6 x 6	STATIONARY MOUNTED



**CONSTRUCTION AREA SIGNS
CS-1**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mno,SLO	1,41,46,101,166	Var	3	11

K.L. McKinley 11-04-09
 REGISTERED CIVIL ENGINEER DATE

1-19-10
 PLANS APPROVAL DATE

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REMOVE PAVEMENT DELINEATION

Loc	Co ROUTE PM	NAME OF BRIDGE	BRIDGE No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKERS (N)	REMOVE THERMOPLASTIC PAVEMENT MARKING
				LF	LF	EA	WORDS SQFT
①	Mon-101-R29.90	LOCKWOOD-SAN LUCAS RD UC	44 0183R	288	192	20	
②	SLO-46-39.95	ESTRELLA RIVER Br	49 0033	1162	1162*	26	
④	SLO-101-44.01	SANTA ROSA ROAD OC	49 0160		422	20	22
⑤	SLO-1-34.46	OLD CREEK Br	49 0070L	477	318	20	
⑥	SLO-166-R51.02	CUYAMA RIVER Br	49 0043	3044	1015*	34	
TOTAL				4971	3109	120	22

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
 * QUANTITY INCLUDES REMOVAL OF BLACK TRAFFIC STRIPE BETWEEN YELLOW THERMOPLASTIC TRAFFIC STRIPE.

PAVEMENT DELINEATION

Loc	Co ROUTE PM	NAME OF BRIDGE	BRIDGE No.	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)						TRAFFIC STRIPE (MARKERS ONLY) (N)	PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING
				YELLOW			WHITE				DETAIL	NON-REFLECTIVE		RETROREFLECTIVE	
				DETAIL						13		DETAIL 13		DETAILS 13,22,25	
				19	22	24	25	11	27B	13	TYPE A	TYPE D	TYPE G	TYPE H	
				LF						LF	EACH	EACH		WORDS SQFT	
①	Mon-101-R29.90	LOCKWOOD-SAN LUCAS RD UC	44 0183R				96	36	96	96	12		2	3	
②	SLO-46-39.95	ESTRELLA RIVER Br	49 0033		581	581			581			26			
④	SLO-101-44.01	SANTA ROSA ROAD OC	49 0160		422							20			22
⑤	SLO-1-34.46	OLD CREEK Br	49 0070L				159	40	318	159	16		4	4	
⑥	SLO-166-R51.02	CUYAMA RIVER Br	49 0043	634					1015			22		12	
SUBTOTAL				2473			2086	255	28	68	6	19			
TOTAL				4559			2086	255	28	93					22

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

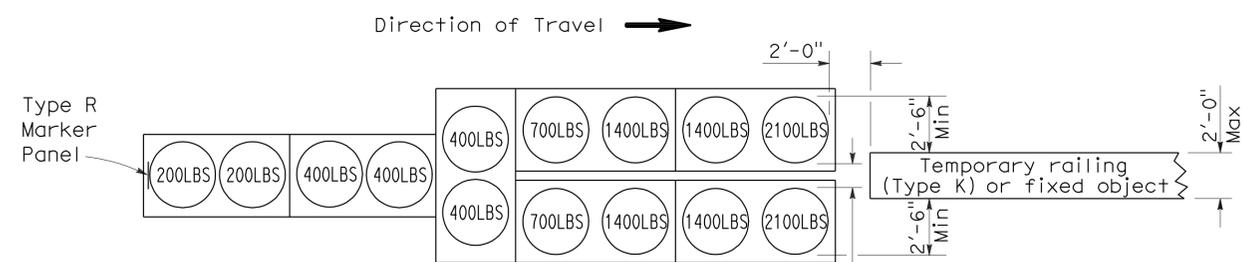
PAVEMENT DELINEATION QUANTITIES

NO SCALE **PDQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 K.L. MCKINLEY
 K.J. McCLAIN
 K.J. McCLAIN
 K.J. McCLAIN

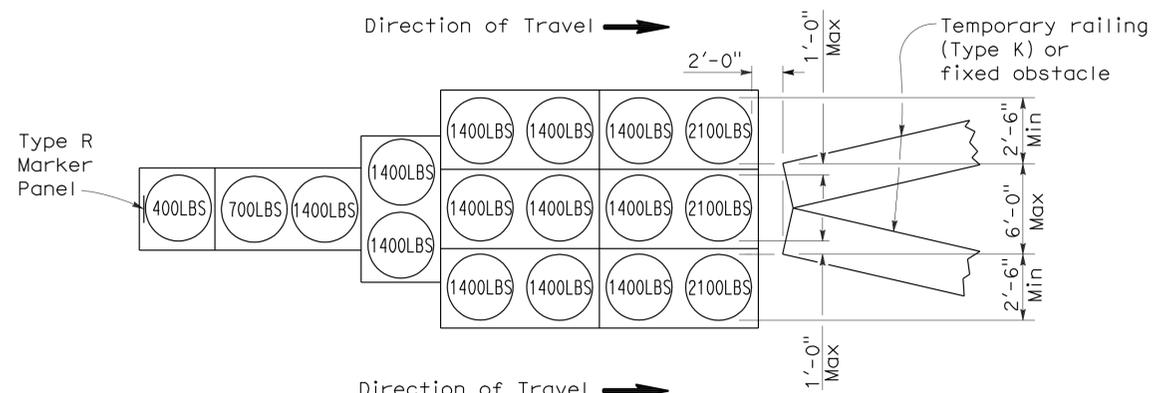
To accompany plans dated 1-19-10

2006 REVISED STANDARD PLAN RSP T1A



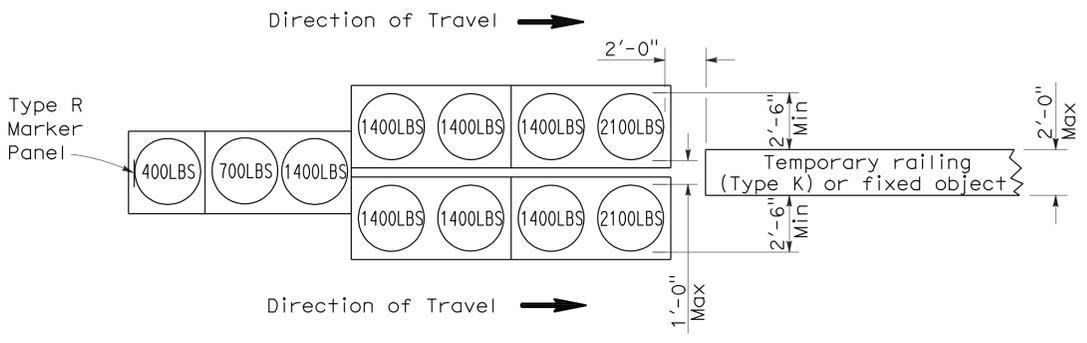
ARRAY 'TU14'

Approach speed 45 mph or more



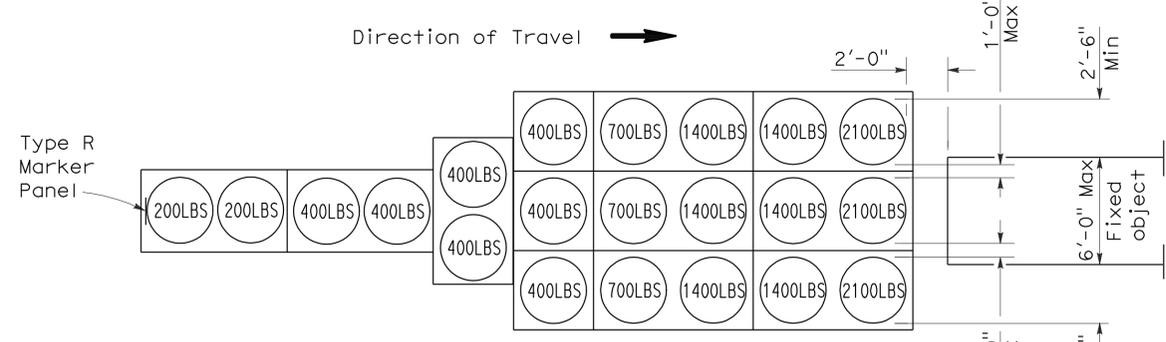
ARRAY 'TU17'

Approach speed less than 45 mph



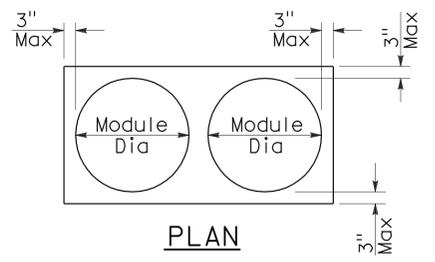
ARRAY 'TU11'

Approach speed less than 45 mph

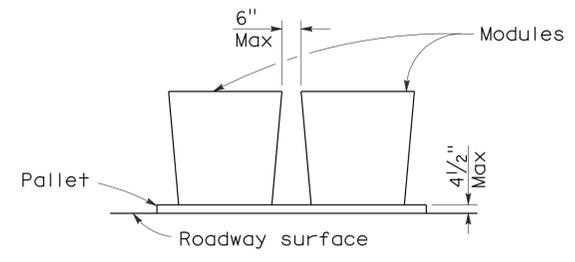


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	Mno, SLO	1,41,46,101,166	Var	5	11

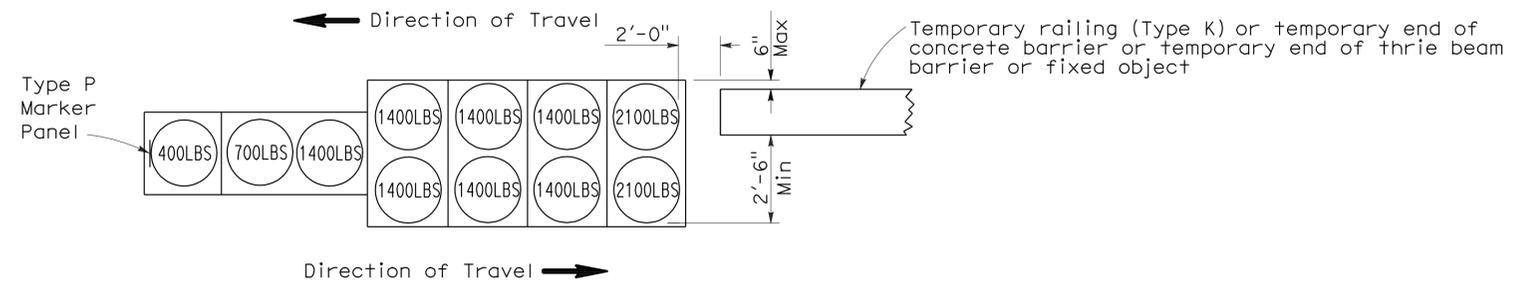
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

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.

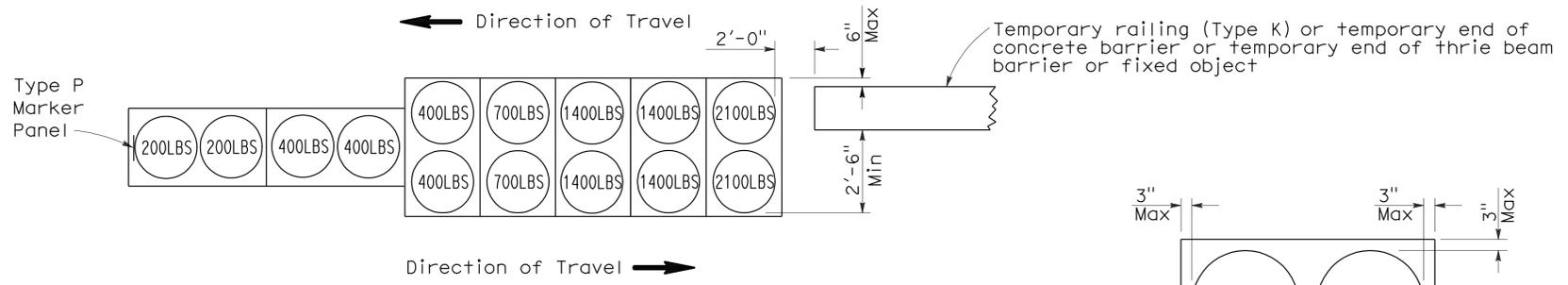
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 1-19-10



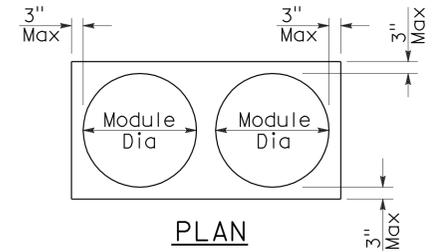
ARRAY 'TB11'

Approach speed less than 45 mph

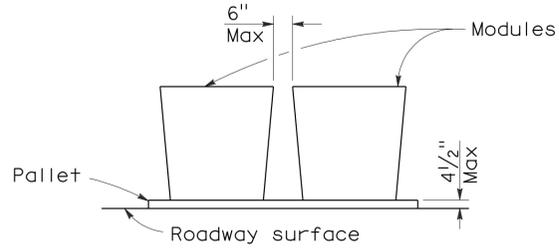


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	Mno, SLO	1,41,46, 101,166	Var	6	11

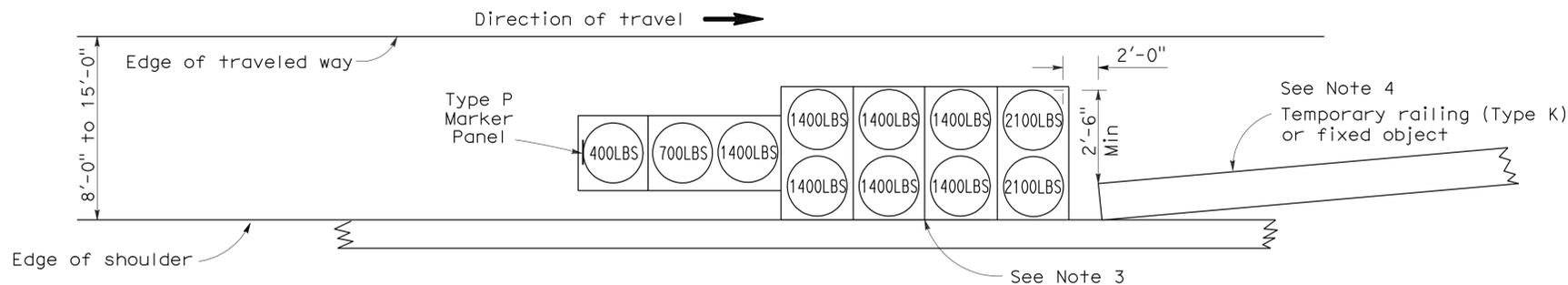
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

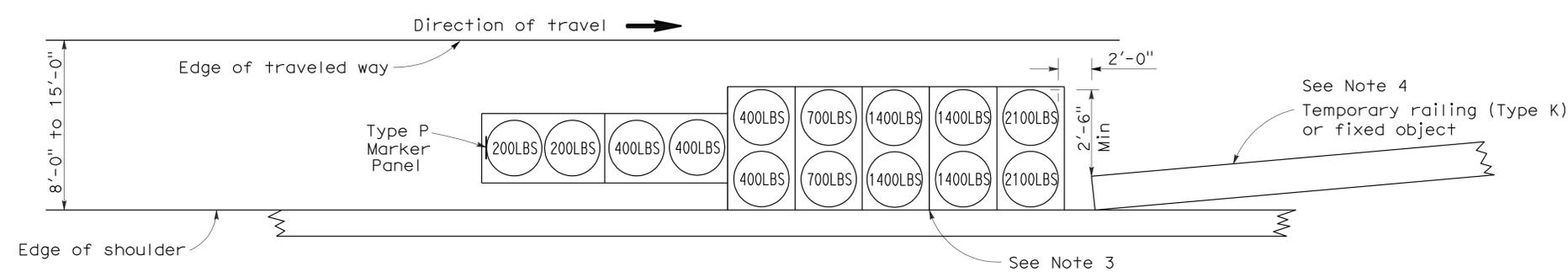
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 1-19-10



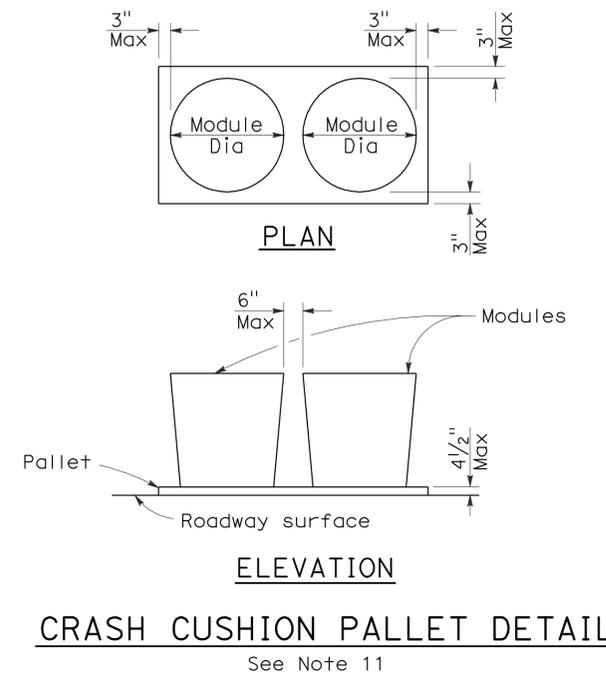
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

NOTES:

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



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

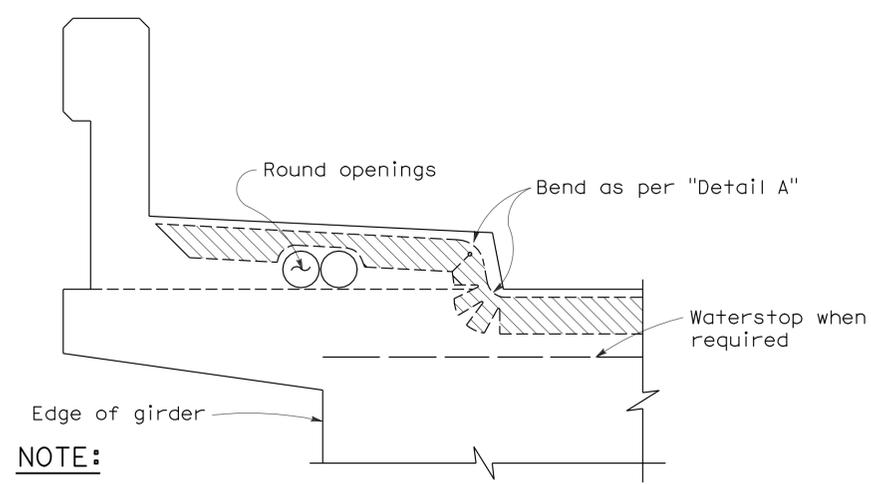
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

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.

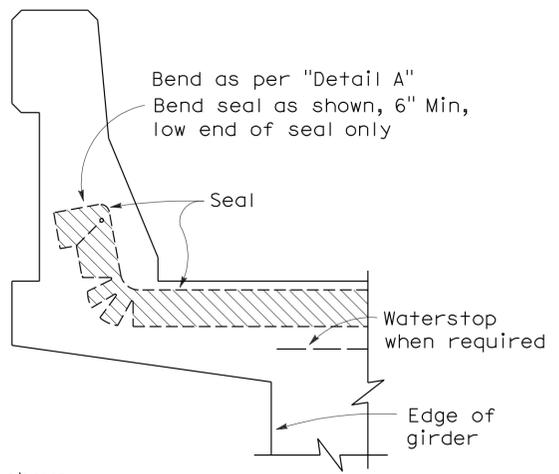
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

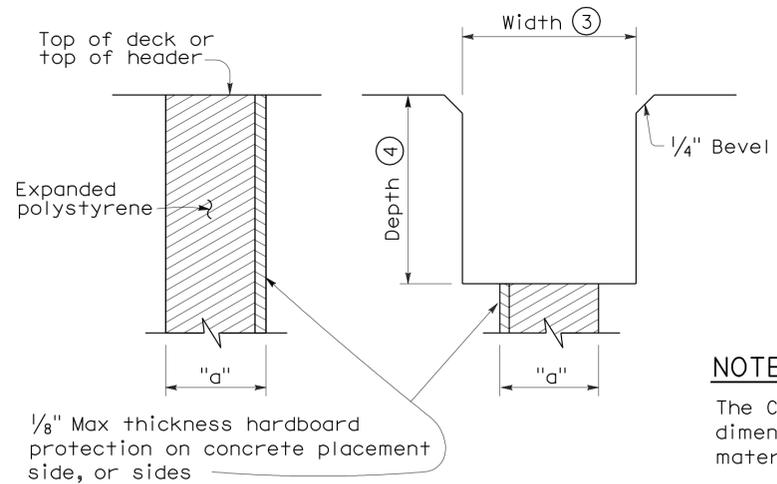


NOTE:
Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



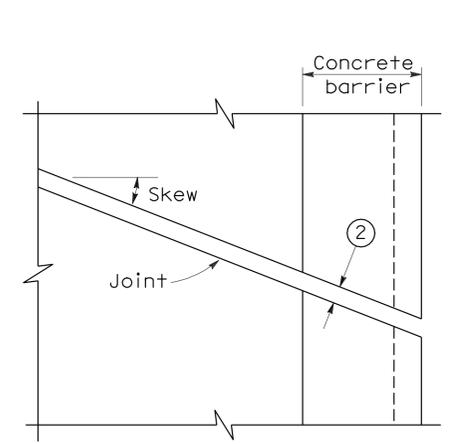
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

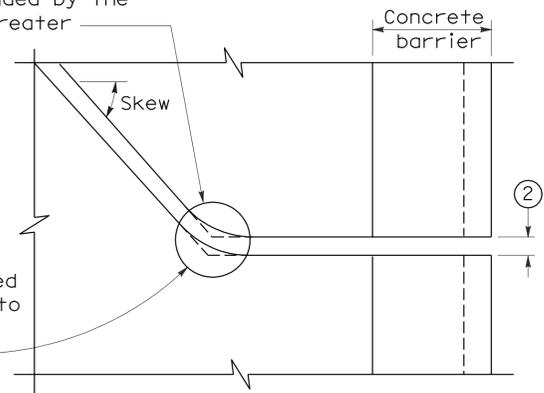
NOTE:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



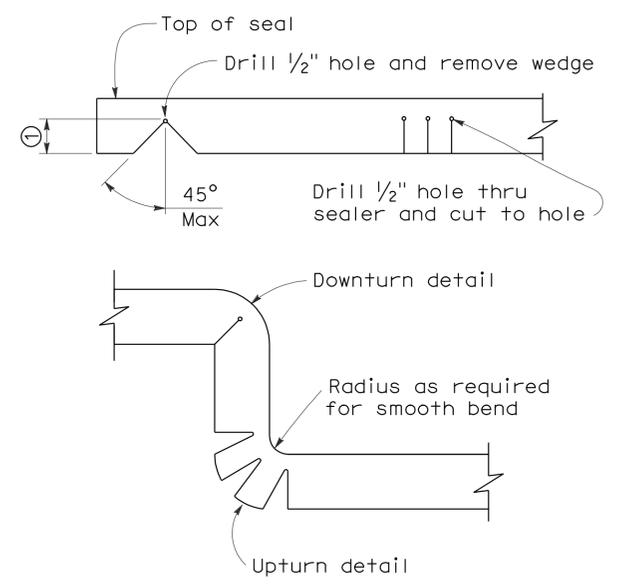
PLAN OF JOINT (SKEW ≤ 20°)

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.



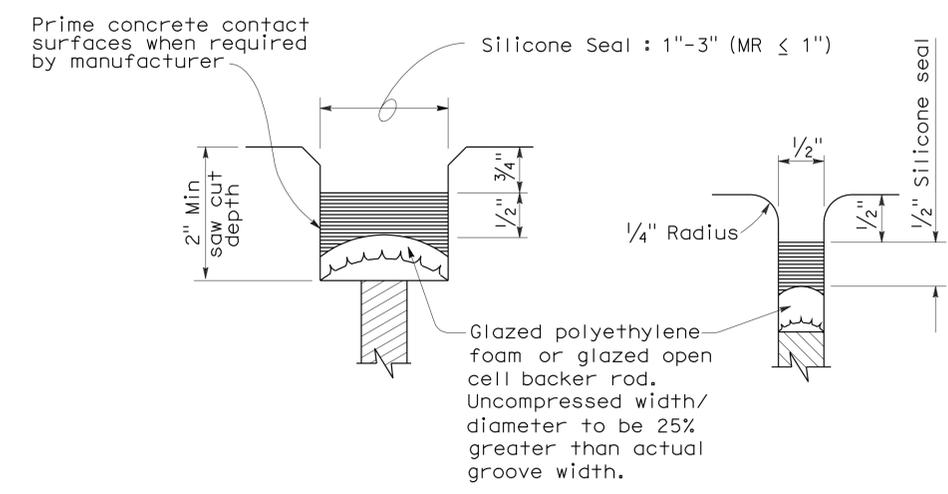
DETAIL A

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

DIMENSIONS "a" OF JOINT REQUIRED

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

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

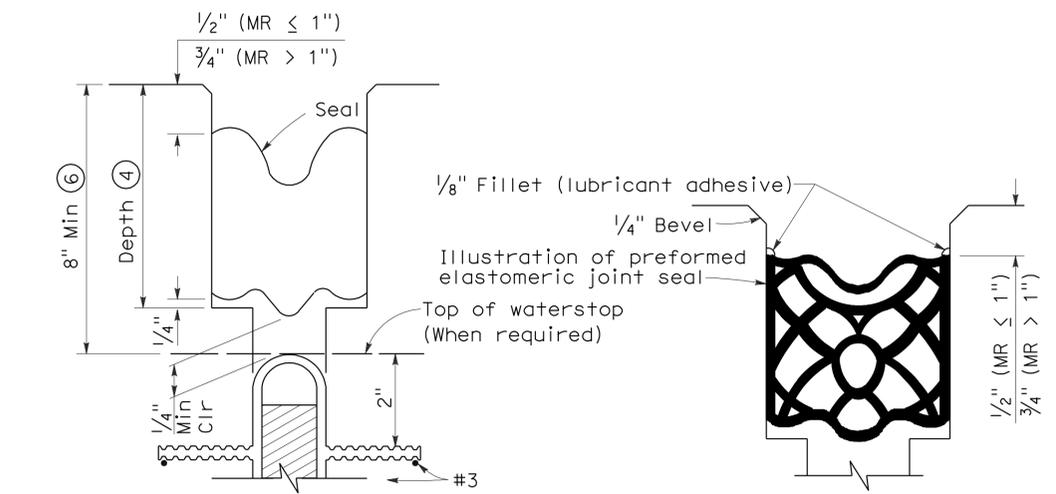


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

Movement Rating ≤ 2"

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

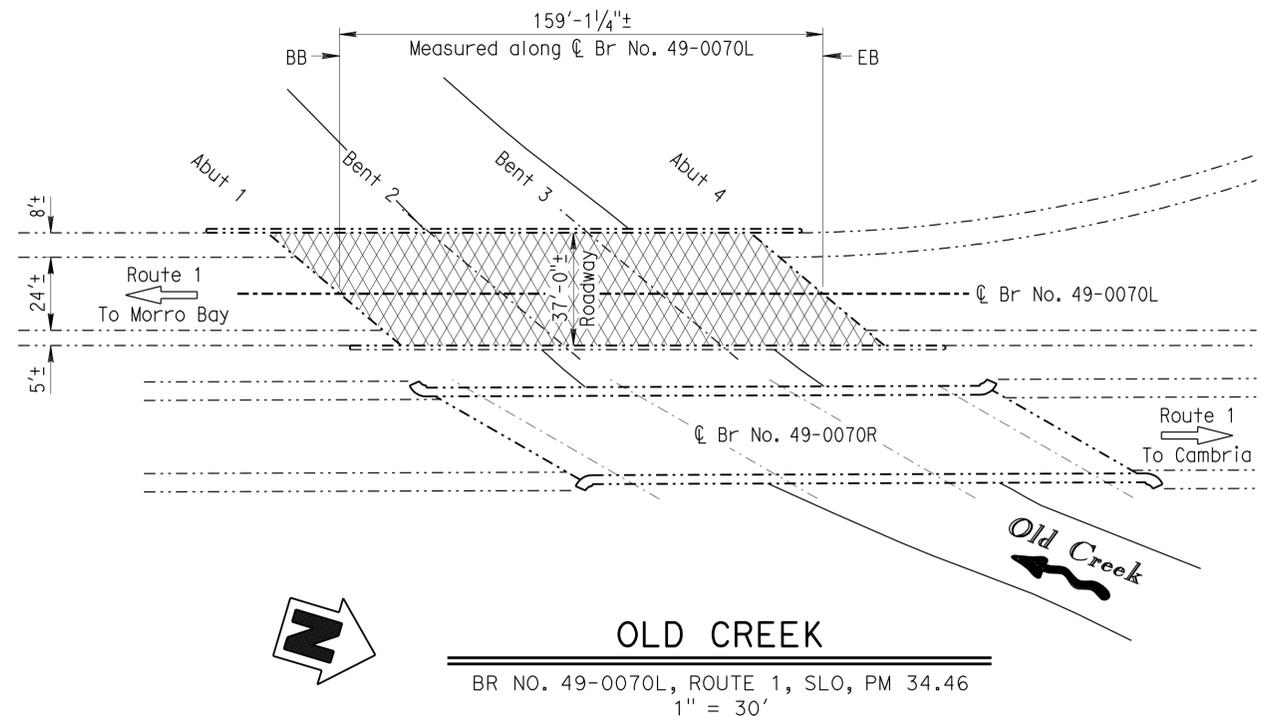
REVISED STANDARD PLAN RSP B6-21

2006 REVISED STANDARD PLAN RSP B6-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	Mno, SLO	1, 41, 46, 101, 166	Var	8	11

8-6-09
 REGISTERED CIVIL ENGINEER DATE
 1-19-10
 PLANS APPROVAL DATE
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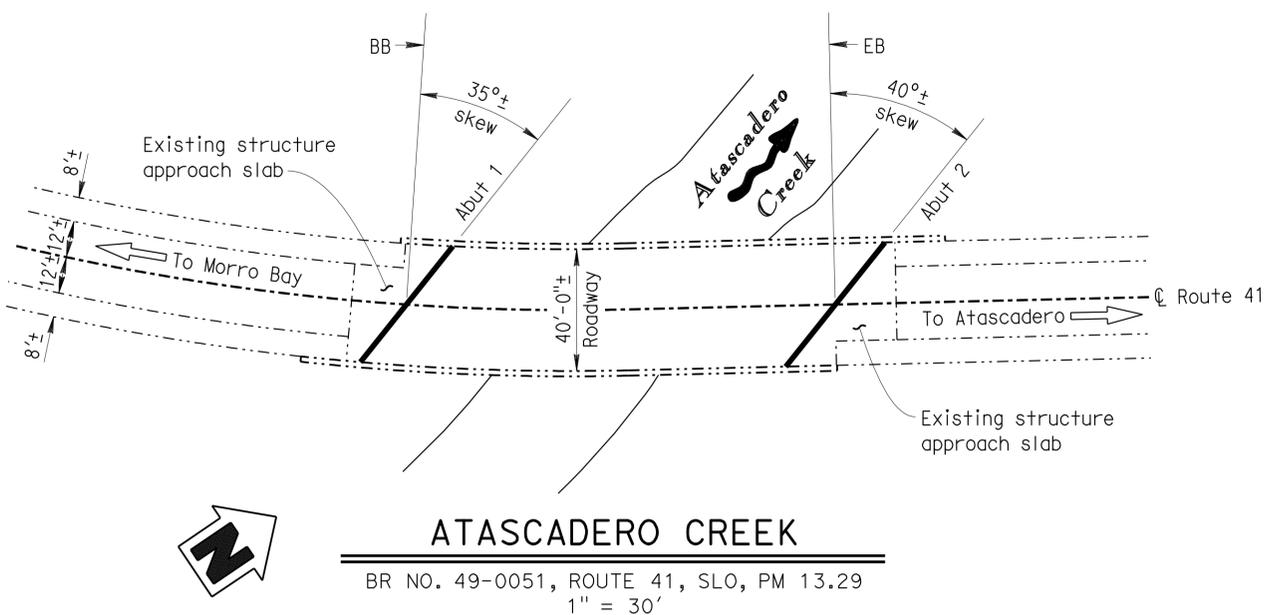
REGISTERED PROFESSIONAL ENGINEER
 HOSSEIN MOAZAMI
 No. C 60058
 Exp. 6-30-10
 CIVIL
 STATE OF CALIFORNIA



OLD CREEK
 BR NO. 49-0070L, ROUTE 1, SLO, PM 34.46
 1" = 30'

OLD CREEK	QUANTITIES	BRIDGE NO. 49-0070L
REMOVE UNSOUND CONCRETE	15 CF	
PREPARE CONCRETE BRIDGE DECK SURFACE	5,900 SQFT	
RAPID SETTING CONCRETE (PATCH)	15 CF	
FURNISH POLYESTER CONCRETE OVERLAY	450 CF	
PLACE POLYESTER CONCRETE OVERLAY	5,900 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.
 - STANDARD PLAN SHEET NUMBER
 - DETAIL NUMBER
 - NOTES:** (APPLY TO THIS SHEET ONLY)
 - Indicates limits of prepare existing concrete deck and place 3/4" depth polyester concrete overlay. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
 - Indicates location of remove existing joint seal and place new joint seal.



ATASCADERO CREEK
 BR NO. 49-0051, ROUTE 41, SLO, PM 13.29
 1" = 30'

ATASCADERO CREEK	QUANTITIES	BRIDGE NO. 49-0051
CLEAN EXPANSION JOINT	102 LF	
JOINT SEAL (MR 1")	102 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

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 8-6-09	DESIGN	BY Brian Nguyen	CHECKED Jarvis Mahe	LAYOUT	BY G.F. Bidwell	CHECKED Brian Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTES 1, 41, 46, 101 & 166 BRIDGES GENERAL PLAN NO. 1
	DETAILS	BY G.F. Bidwell	CHECKED Jarvis Mahe	SPECIFICATIONS	BY Todd Geerts	CHECKED Todd Geerts			POST MILE	VARIES	
	QUANTITIES	BY Brian Nguyen	CHECKED Jarvis Mahe				CU 05 EA OR9801			DISREGARD PRINTS BEARING EARLIER REVISION DATES 11-2-08 12-15-08 1-9-09 8-6-09	SHEET 1 OF 4

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

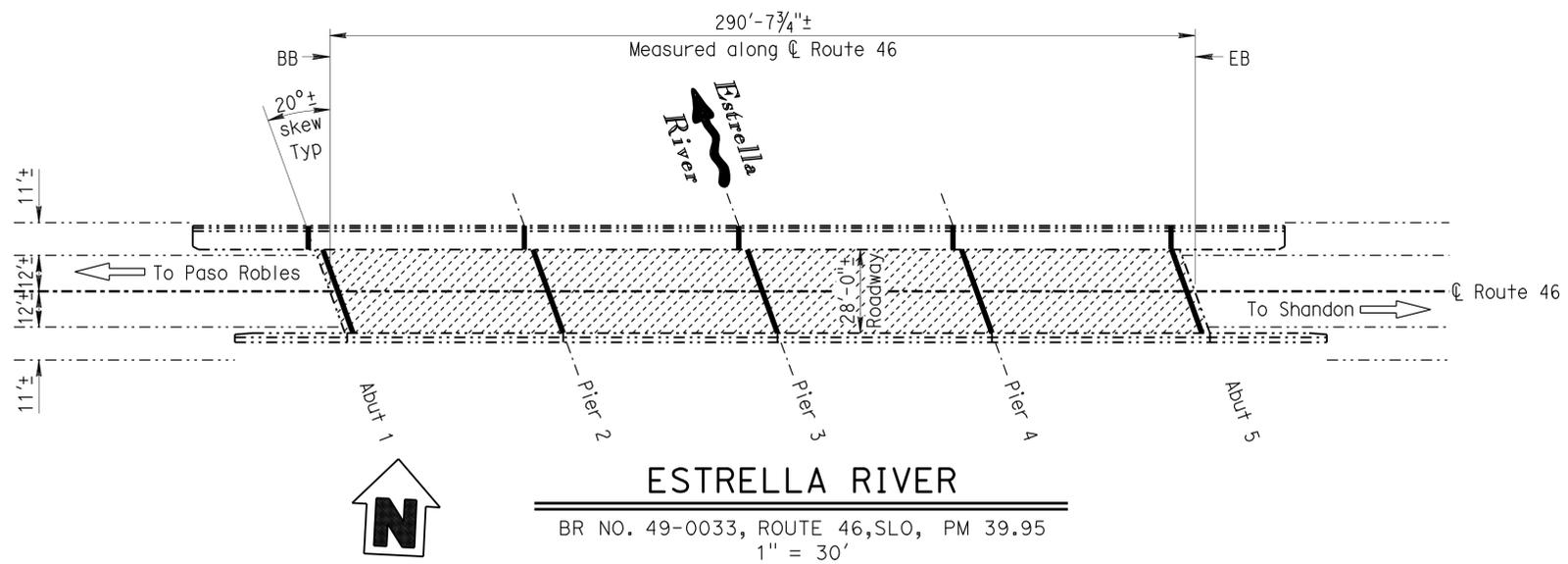
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

FILE => 05-0r9801_01gp1.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	Mno, SLO	1, 41, 46, 101, 166	Var	9	11

8-6-09
 REGISTERED CIVIL ENGINEER DATE
 1-19-10
 PLANS APPROVAL DATE
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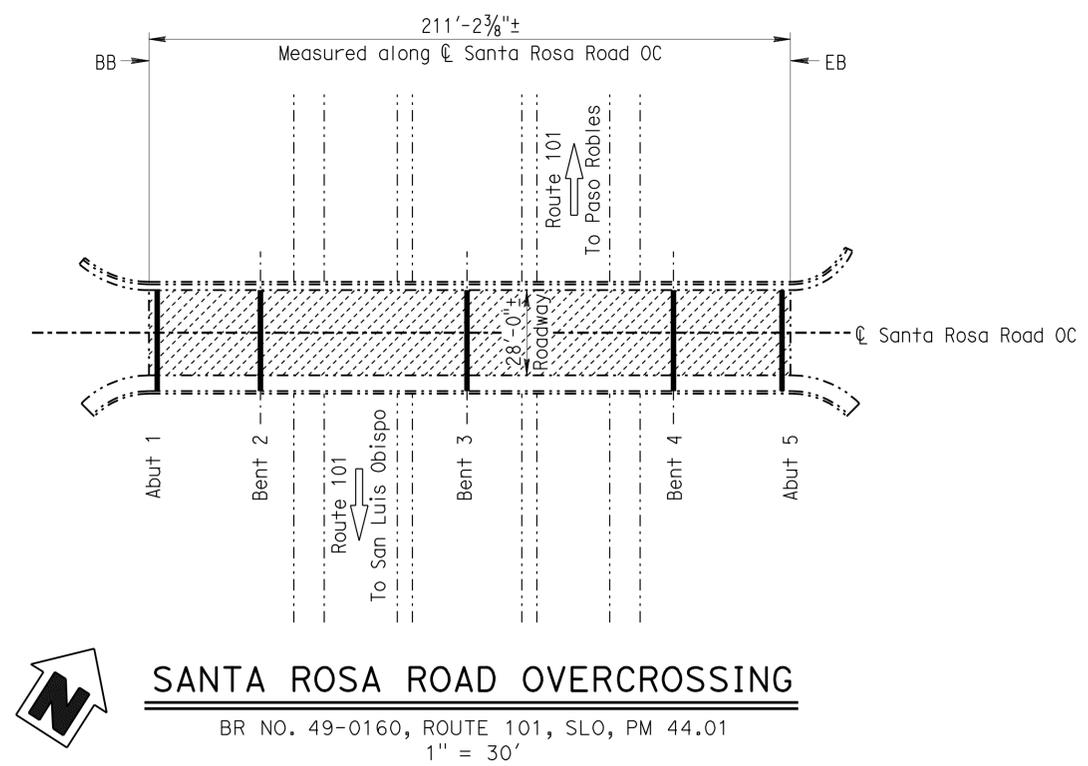
REGISTERED PROFESSIONAL ENGINEER
 HOSSEIN MOAZAMI
 No. C 60058
 Exp. 6-30-10
 CIVIL
 STATE OF CALIFORNIA



NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

Indicates location of remove existing joint seal and place new joint seal.



ESTRELLA RIVER BRIDGE NO. 49-0033
QUANTITIES

REMOVE UNSOUND CONCRETE	20	CF
CLEAN BRIDGE DECK	8,140	SQFT
CLEAN EXPANSION JOINT	210	LF
RAPID SETTING CONCRETE (PATCH)	20	CF
JOINT SEAL (MR 1/2")	42	LF
JOINT SEAL (MR 1")	168	LF
TREAT BRIDGE DECK	8,140	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	90	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

SANTA ROSA ROAD OVERCROSSING BRIDGE NO. 49-0160
QUANTITIES

REMOVE UNSOUND CONCRETE	15	CF
CLEAN BRIDGE DECK	5,920	SQFT
CLEAN EXPANSION JOINT	185	LF
RAPID SETTING CONCRETE (PATCH)	15	CF
JOINT SEAL (MR 1/2")	111	LF
JOINT SEAL (MR 1")	74	LF
TREAT BRIDGE DECK	5,920	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	66	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

Michael J. Lee 8-6-09
DESIGN ENGINEER

DESIGN	BY Brian Nguyen	CHECKED Jarvis Mahe
DETAILS	BY G.F. Bidwell	CHECKED Jarvis Mahe
QUANTITIES	BY Brian Nguyen	CHECKED Jarvis Mahe

LAYOUT	BY G.F. Bidwell	CHECKED Brian Nguyen
SPECIFICATIONS	BY Todd Geerts	CHECKED Todd Geerts

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
ROUTES 1, 41, 46, 101 & 166 BRIDGES
POST MILE VARIOUS
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



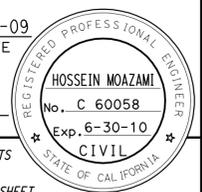
CU 05
EA OR9801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	11-2-08	12-15-08	1-9-09	8-6-09					
SHEET	2								
OF	4								

USERNAME => hrmikes DATE PLOTTED => 25-JAN-2010 TIME PLOTTED => 08:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	Mno, SLO	1, 41, 46, 101, 166	Var	10	11
 REGISTERED CIVIL ENGINEER			8-6-09	DATE	
1-19-10 PLANS APPROVAL DATE					
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NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

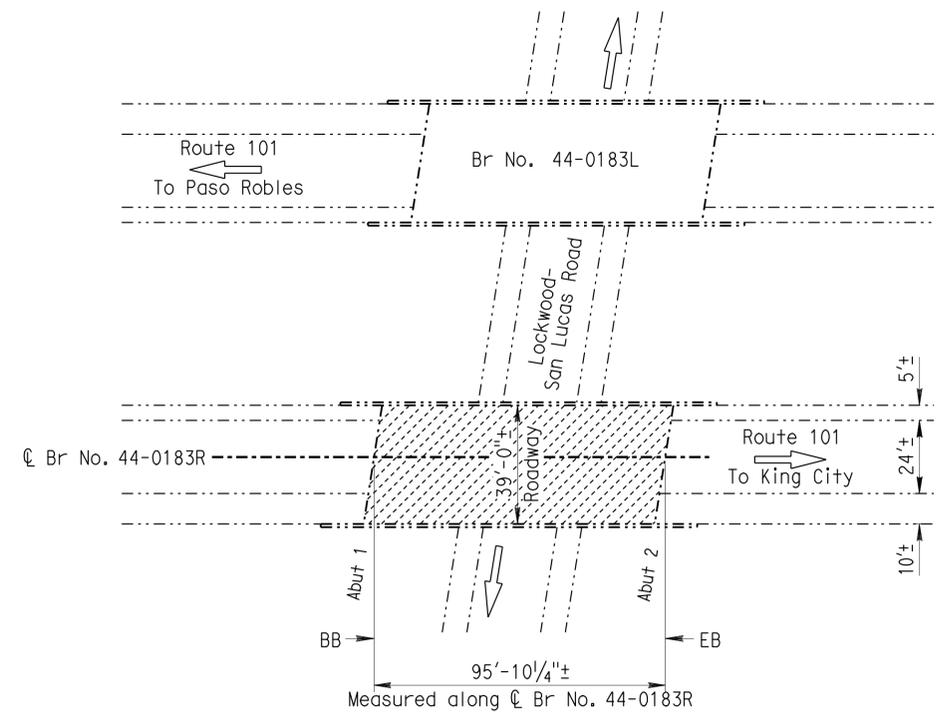
 Indicates location of remove existing joint seal assembly and place new joint seal. For details see "ABUTMENT DETAILS" on JOINT SEAL DETAILS sheet.

LOCKWOOD SAN LUCAS RD UNDERCROSSING BRIDGE NO. 49-0183R

REMOVE UNSOUND CONCRETE	9	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,740	SQFT
RAPID SETTING CONCRETE (PATCH)	9	CF
TREAT BRIDGE DECK	3,740	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	41	GAL
PUBLIC SAFETY PLAN		LUMP SUM

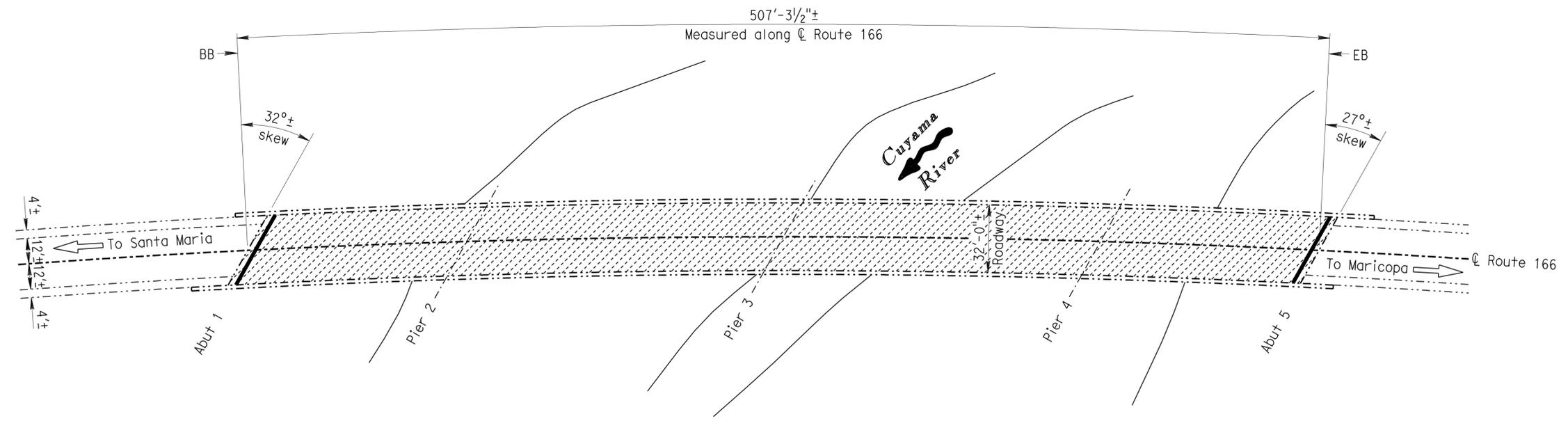
CUYAMA RIVER BRIDGE NO. 49-0043

REMOVE UNSOUND CONCRETE	41	CF
CLEAN BRIDGE DECK	16,295	SQFT
BRIDGE REMOVAL (PORTION)		LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	6	CY
CLEAN EXPANSION JOINT	75	LF
RAPID SETTING CONCRETE (PATCH)	41	CF
JOINT SEAL (MR 2")	75	LF
BAR REINFORCING STEEL (BRIDGE)	572	LB
TREAT BRIDGE DECK	16,295	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	181	GAL
PUBLIC SAFETY PLAN		LUMP SUM



LOCKWOOD-SAN LUCAS ROAD UNDERCROSSING

BR NO. 44-0183R, ROUTE 101, Mon, PM R29.90
 1" = 30'



CUYAMA RIVER

BR NO. 49-0043, ROUTE 166, SLO, PM R51.02
 1" = 30'


 DESIGN ENGINEER 8-6-09

DESIGN	BY Brian Nguyen	CHECKED Jarvis Mahe
DETAILS	BY G.F. Bidwell	CHECKED Jarvis Mahe
QUANTITIES	BY Brian Nguyen	CHECKED Jarvis Mahe

LAYOUT	BY G.F. Bidwell	CHECKED Brian Nguyen
SPECIFICATIONS	BY Todd Geerts	CHECKED Todd Geerts

STATE OF CALIFORNIA
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DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 1, 41, 46, 101 & 166 BRIDGES
 GENERAL PLAN NO. 3

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 05
 EA OR9801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

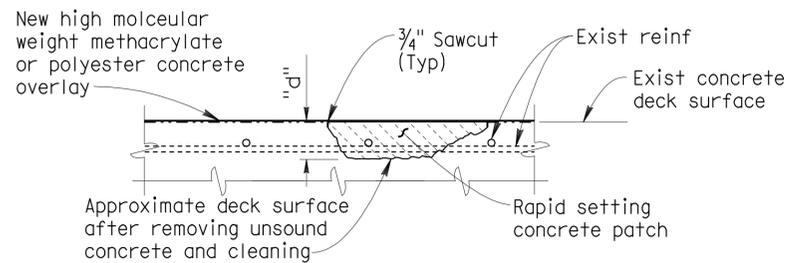
REVISION DATES				SHEET	OF
11-2-08	12-15-08	1-9-09	8-6-09	3	4

USERNAME => hrmikes DATE PLOTTED => 25-JAN-2010 TIME PLOTTED => 08:23

DECK REPAIR TABLE

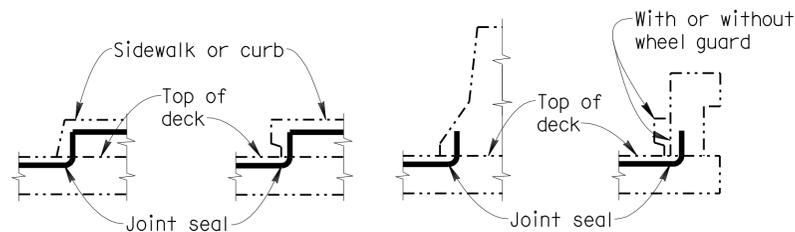
BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
44-0183R	1	3
49-0070L	1	3
49-0033	1	3
49-0160	1	3
49-0043	1	3

Remove unsound concrete and patch with rapid setting concrete. Repair locations to be determined by the Engineer. For details see "DECK REPAIR DETAIL".



DECK REPAIR DETAIL

Reinforcement may be encountered during deck concrete removal. NO SCALE

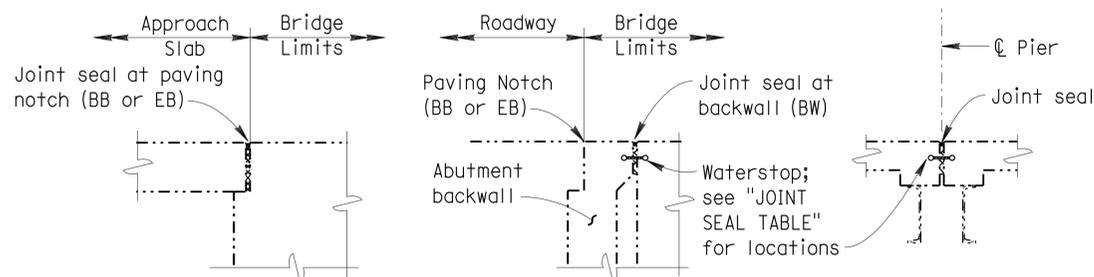


SIDEWALK OR CURB

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



DIAPHRAGM ABUTMENT

ABUTMENT WITH BACKWALL

PIER

JOINT SEAL LOCATION

NO SCALE

JOINT SEAL TABLE

BRIDGE NUMBER	LOCATION	MINIMUM "MR" (inches)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXPANSION JOINT (inches)	APPROXIMATE DEPTH OF JOINT SPALLS (inches)	APPROXIMATE WIDTH OF JOINT SPALLS (inches)	APPROXIMATE LENGTH OF JOINT SPALLS (feet)
49-0051	Abut 1 PN	1	49	No	12	3	6	5
	Abut 2 PN	1	53	No	12	3	6	5
49-0033	Abut 1 BW	1	42	No	18	3	6	5
	Pier 2	1	42	No	16	3	6	5
	Pier 3	1/2	42	No	16	3	6	5
	Pier 4	1	42	No	16	3	6	5
49-0160	Abut 5 BW	1	42	No	18	3	6	5
	Bent 2	1/2	37	No	20	3	6	5
	Bent 3	1	37	No	20	3	6	5
	Bent 4	1/2	37	No	20	3	6	5
	Abut 5 BW	1/2	37	No	20	3	6	5
49-0043	Abut 1 BW	2	38	No	---	---	---	---
	Abut 5 BW	2	38	No	---	---	---	---

LEGEND:

BW = Backwall
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

The following notes apply to **JOINT SEAL TYPE B:**

- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- 2) 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.
- 3) 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.
- 4) 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.
- 5) For details not shown see

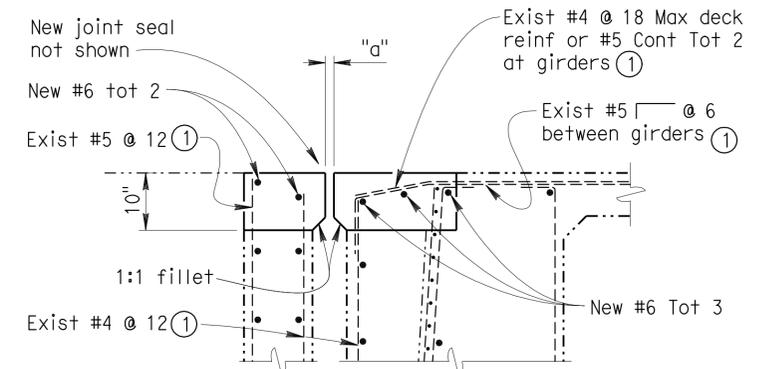
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	Mno, SLO	1, 41, 46, 101, 166	Var	11	11

REGISTERED CIVIL ENGINEER DATE 8-6-09
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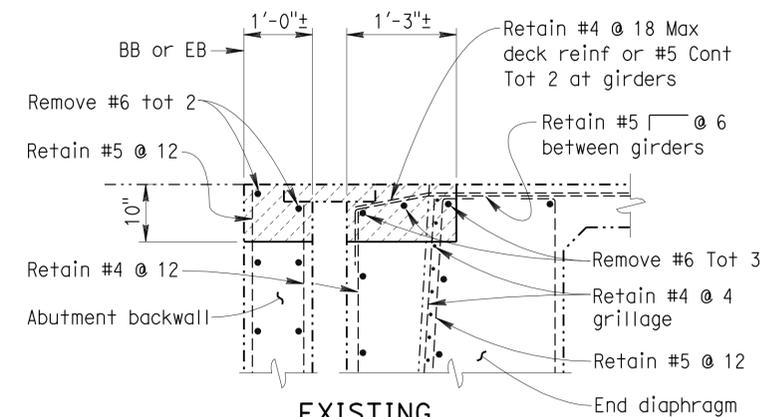
NOTES: (APPLY TO THIS SHEET ONLY)

- ① Bend existing reinforcing steel as required to clear new joint seal assembly.

Indicates limits of remove existing concrete and joint seal assembly.



RECONSTRUCTION



EXISTING ABUTMENT DETAILS

BR NO. 49-0043
3/4" = 1'

DESIGN	BY Brian Nguyen	CHECKED Jarvis Mahe
DETAILS	BY G.F. Bidwell	CHECKED Jarvis Mahe
QUANTITIES	BY Brian Nguyen	CHECKED Jarvis Mahe

STATE OF CALIFORNIA
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DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 1, 41, 46, 101 & 166 BRIDGES

JOINT SEAL DETAILS