

INDEX OF PLANS

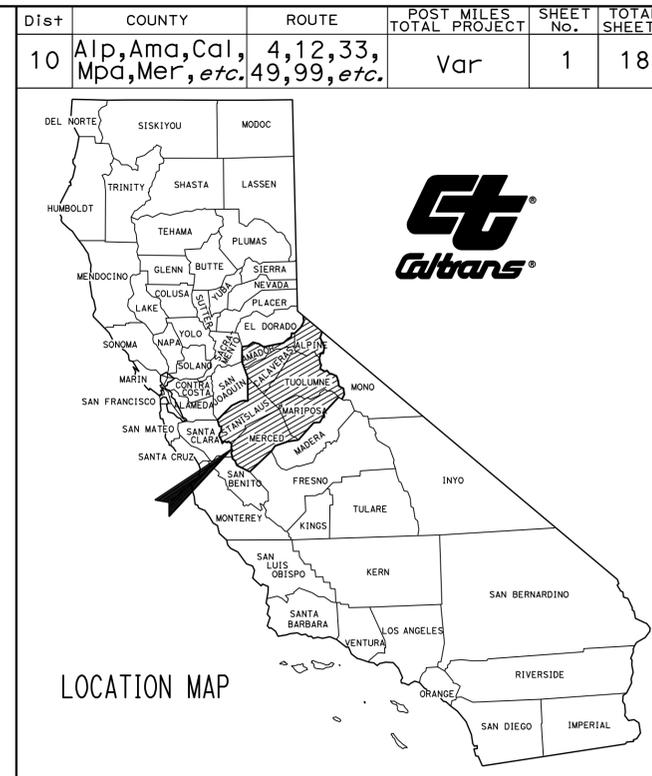
SHEET NO.	DESCRIPTION
1	TITLE AND LOCATION MAP
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3	CONSTRUCTION AREA SIGNS
4	SUMMARY OF QUANTITIES
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

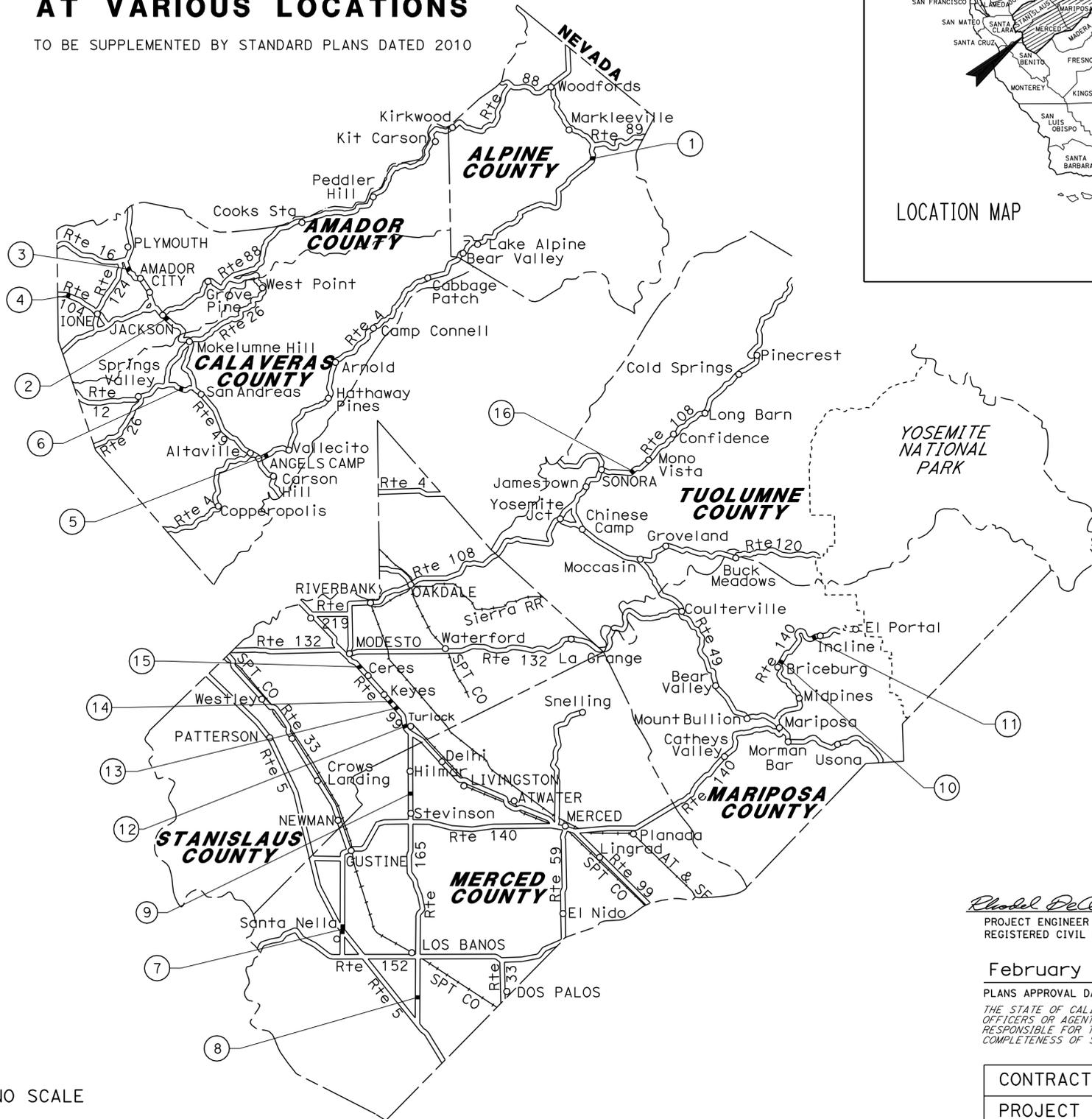
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ALPINE, AMADOR, CALAVERAS,
MARIPOSA, MERCED, STANISLAUS, AND TUOLUMNE COUNTIES
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATIONS OF CONSTRUCTION

Loc No.	Co	Rte	PM	STRUCTURE NAME	BRIDGE No.
1	Alp	4	29.78	EAST FORK CARSON RIVER	31-0013
2	Ama	49	4.10	JACKSON CREEK	26-0035
3	Ama	49	13.57	DRY CREEK	26-0018
4	Ama	104	R3.62	DRY CREEK	26-0050
5	Cal	4	21.41	ANGELS CREEK	30-0008
6	Cal	12	17.25	NORTH FORK CALAVERAS RIVER	30-0007
7	Mer	33	R16.60	ROUTE 33/5 SEPARATION	39-0169
8	Mer	165	3.33	DELTA-MENDOTA CANAL	39-0200
9	Mer	165	30.29	MERCED RIVER	39-0217
10	Mpa	140	34.08	BEAR CREEK	40-0005
11	Mpa	140	43.22	SOUTH FORK MERCED RIVER	40-0008
12	Sta	99	R3.45	WEST MAIN STREET UNDERCROSSING	38-0141L
13	Sta	99	R6.41	NORTH TURLOCK OVERHEAD (UNION PACIFIC RAILROAD)	38-0144R
14	Sta	99	R10.58	SERVICE ROAD OVERCROSSING	38-0094
15	Sta	99	R13.90	SOUTH MODESTO UNDERCROSSING	38-0082L
16	Tuo	108	R2.02	SANGUINETTI OVERHEAD (SIERRA RAILROAD)	32-0062



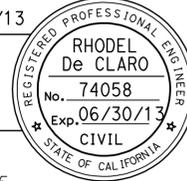
PROJECT MANAGER
ALVIN MANGINDIN

DESIGN ENGINEER
ALVIN MANGINDIN

Rhodel DeClaro 2/6/13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February 11, 2013
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."

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. FOR COLD PLANE AC PAVEMENT DIMENSIONS AND LOCATIONS, SEE SUMMARY OF QUANTITIES SHEET.

LEGEND

-  - COLD PLANE AC PAVEMENT HMA (TYPE A)
-  - GRIND EXISTING CONCRETE PAVEMENT

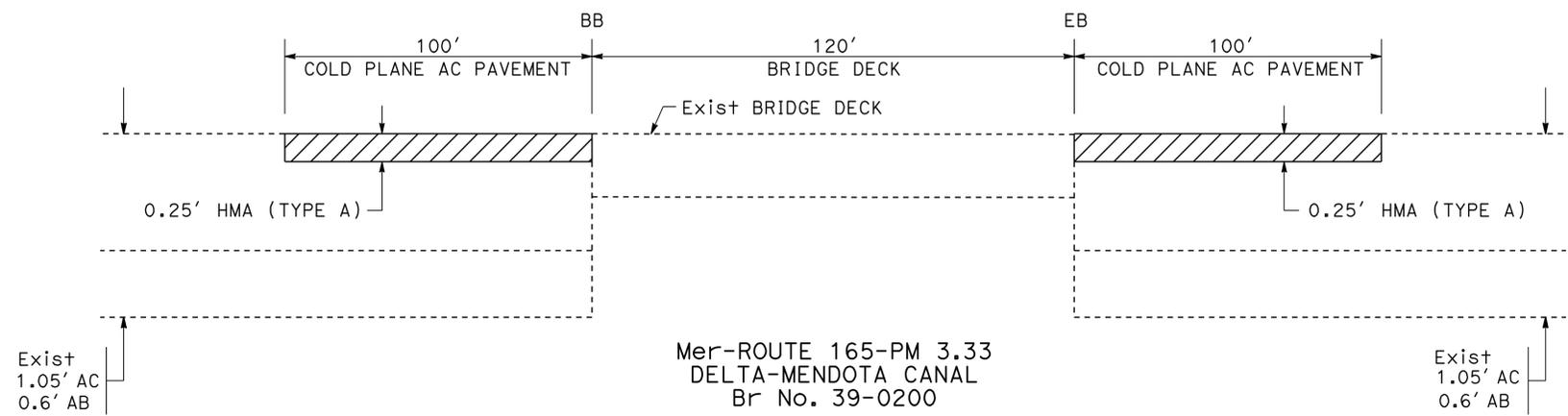
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp,Amg,Cal, Mpa,Mer,etc,49,99,etc.	4,12,33	Var	2	18

Rhodol DeClaro 2/16/13
 REGISTERED CIVIL ENGINEER DATE

2/11/13
 PLANS APPROVAL DATE

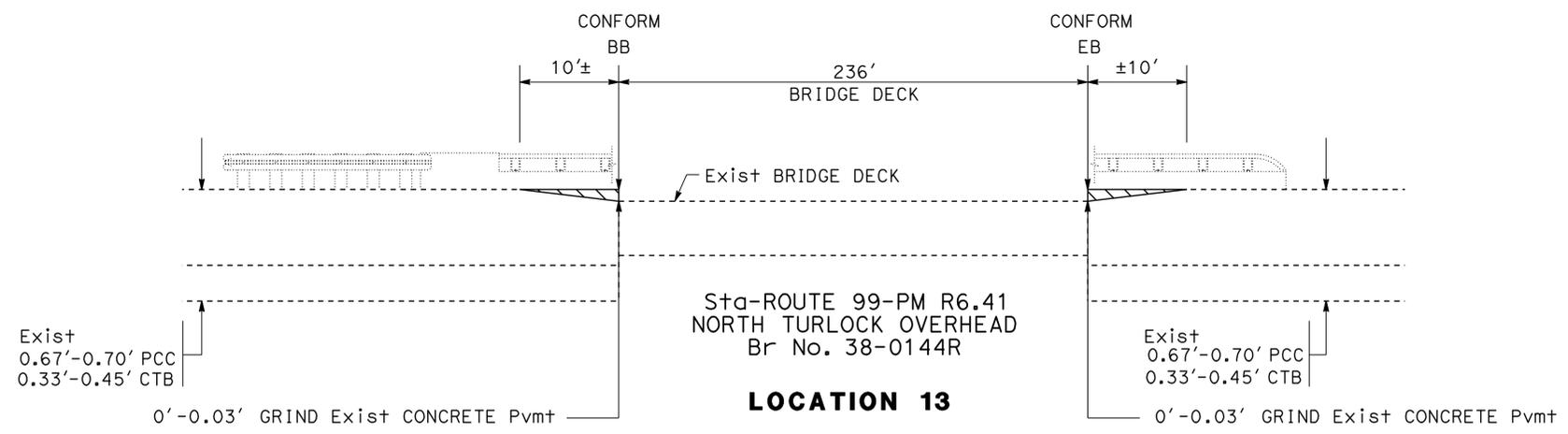
RHODEL De CLARO
 No. 74058
 Exp. 6/30/13
 CIVIL
 STATE OF CALIFORNIA

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Mer-ROUTE 165-PM 3.33
 DELTA-MENDOTA CANAL
 Br No. 39-0200

LOCATION 8



Sta-ROUTE 99-PM R6.41
 NORTH TURLOCK OVERHEAD
 Br No. 38-0144R

LOCATION 13

LONGITUDINAL CONFORM TAPER, APPROACH/DEPARTURE DETAIL

CONSTRUCTION DETAILS

NO SCALE **C-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	3	18

Rhodel DeClaro 2/6/13
REGISTERED CIVIL ENGINEER DATE

2/11/13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RHODEL De CLARO
No. 74058
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE
FUNCTIONAL SUPERVISOR
ALVIN MANGINDIN
CALCULATED-DESIGNED BY
CHECKED BY
RHODEL DE CLARO
JOSE A ALICEA II
REVISED BY
DATE REVISED
RDC
02/06/13

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

LOCATION No.	COUNTY	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN CODE		PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
						FEDERAL	CALIFORNIA				
①	Alp	4	29.78	EAST FORK CARSON RIVER	31-0013	W20-1		36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK
②	Ama	49	4.10	JACKSON CREEK	26-0035	W20-1		36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK
④	Ama	104	R3.62	DRY CREEK	26-0050	W20-1		36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK
⑤	Cal	4	21.41	ANGELS CREEK	30-0008	W20-1		36" x 36"	1 - 4" x 6"	4	ROAD WORK AHEAD
						G20-2		36" x 18"	1 - 4" x 4"	4	END ROAD WORK
⑥	Cal	12	17.25	NORTH FORK CALAVERAS RIVER	30-0007	W20-1		36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK
⑦	Mer	33	R16.60	ROUTE 33/5 SEPARATION	39-0169	W20-1		36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK
⑧	Mer	165	3.33	DELTA-MENDOTA CANAL	39-0200	W20-1		36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK
⑨	Mer	165	30.29	MERCED RIVER	39-0217	W20-1		36" x 36"	1 - 4" x 6"	4	ROAD WORK AHEAD
						G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK
⑪	Mpa	140	43.22	SOUTH FORK MERCED RIVER	40-0008	W20-1		36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD
						G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK
⑬	Sta	99	R6.41	NORTH TURLOCK OVERHEAD	38-0144R	W20-1		48" x 48"	1 - 6" x 6"	2	ROAD WORK AHEAD
						G20-2		48" x 24"	1 - 4" x 6"	2	END ROAD WORK

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

**CONSTRUCTION AREA SIGNS
CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION | DATE PLOTTED => 14-FEB-2013
00-00-00 | TIME PLOTTED => 10:18

NOTES:

1. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
2. TRAFFIC MANAGEMENT SYSTEM ELEMENTS LOCATIONS ARE APPROXIMATE.
3. * - SEE ADDITIONAL HMA (TYPE A) QUANTITIES IN STRUCTURE GENERAL PLANS.

TRAFFIC MANAGEMENT SYSTEM ELEMENTS (EXISTING)

LOCATION	COUNTY	ROUTE	PM	Dir	LOCATION	TYPE	DESCRIPTION
5	Cal	4	R21.09	EB/WB	JUNCTION ROUTE 49	TMS	TRAFFIC MONITORING STATION
7	Mer	33	17.05	NB/SB	PLAZA DRIVE	SIGNAL	SIGNAL
2	Ama	49	3.43	NB/SB	CLINTON ROAD	SIGNAL	SIGNAL
			4.25	NB/SB	S JUNCTION ROUTE 88	TMS	TRAFFIC MONITORING STATION
			4.26	NB/SB	MAIN STREET	SIGNAL	SIGNAL
			4.29	NB/SB	S JUNCTION ROUTE 88/PEEK STREET (E JACKSON)	SIGNAL	SIGNAL
12,15	Sta	99	R3.46	NB/SB	WEST MAIN STREET	SIGNAL	SIGNAL
			R13.76	NB/SB	NORTH OF OFF-RAMP TO 9TH STREET	TMS	TRAFFIC MONITORING STATION
16	Tuo	108	2.50	EB/WB	TUOLUMNE ROAD	TMS	TRAFFIC MONITORING STATION
			R2.18	EB/WB	ON/OFF-RAMPS TO WB MONO WAY	SIGNAL	SIGNAL
			R2.36	EB/WB	ON/OFF-RAMPS TO EB MONO WAY	SIGNAL	SIGNAL

CONFORM TAPERS (ROADWAY ITEMS)

LOCATION No.	COUNTY	ROUTE	PM	BRIDGE No.	LOCATION DESCRIPTION	LENGTH (N)	WIDTH (N)	COLD PLANE AC PAVEMENT	GRIND Exist CONCRETE Pvm+	HMA (TYPE A)	TACK COAT
								SQYD	SQYD	TON	TON
⑥	Cal	12	17.25	30-0007	NORTH FORK CALAVERAS RIVER					49*	
⑧	Mer	165	3.33	39-0200	DELTA-MENDOTA CANAL (APPROACH)	100	28	311		53	0.5
					DELTA-MENDOTA CANAL (DEPARTURE)	100	28	311		53	0.5
⑬	Sta	99	R6.41	38-0144R	NORTH TURLOCK OVERHEAD (APPROACH)	10	51		57		
					NORTH TURLOCK OVERHEAD (DEPARTURE)	10	51		57		
TOTAL								622	113	155	1

PAVEMENT DELINEATION ITEMS

LOCATION No.	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE				4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)		4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)		REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)						
			YELLOW		WHITE	YELLOW		WHITE	WHITE	YELLOW	WHITE		TYPE D		TYPE G		TYPE H		
			DETAIL 22	DETAIL 25	DETAIL 32	DETAIL 27B	DETAIL 6	DETAIL 32	DETAIL 12	DETAIL 9	DETAIL 21		DETAIL 27B	DETAIL 6	DETAIL 22	DETAIL 32	DETAIL 9	DETAIL 12	DETAIL 25
①	LF	LF	LF				LF		LF	LF	EA	EA							
②	296	296							296	296									
④					372	372		372			29			25	4				
④	202	404				404	202				5	5							
⑤	92	92							92	92									
⑥			600			600					26	26							
⑦	996	498	996			498					42	42							
⑧			440			440					30	30							
⑨	2758		2758								574	114							
⑪									304	304									
⑬			256			256		552			50					8	8		
SUBTOTAL	4344	1290	4794	256	372	2570	202	372	552	372	692	692	756	5	212	25	4	8	8
TOTAL	4344	1290	7992				1126			372	1384		756	262					

SUMMARY OF QUANTITIES Q-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp,Ama,Cal, Mpa,Mer,etc	4,12,33, 49,99,etc	Var	4	18

Rhodol DeClaro 2/6/13
REGISTERED CIVIL ENGINEER DATE

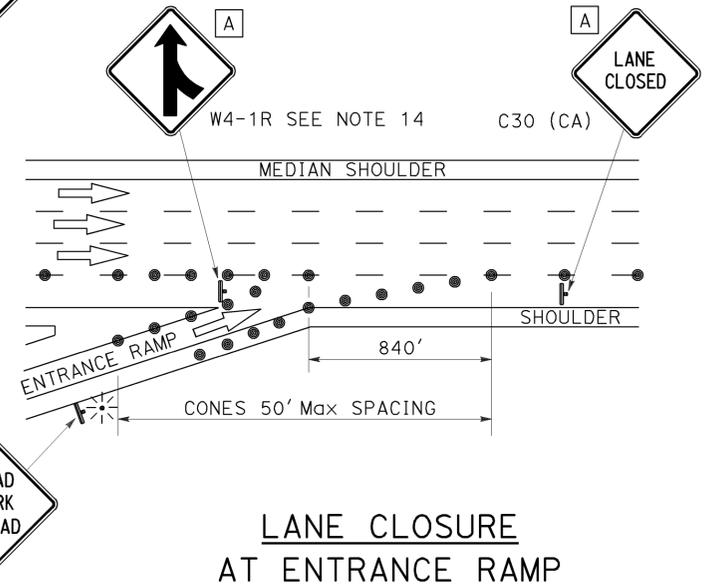
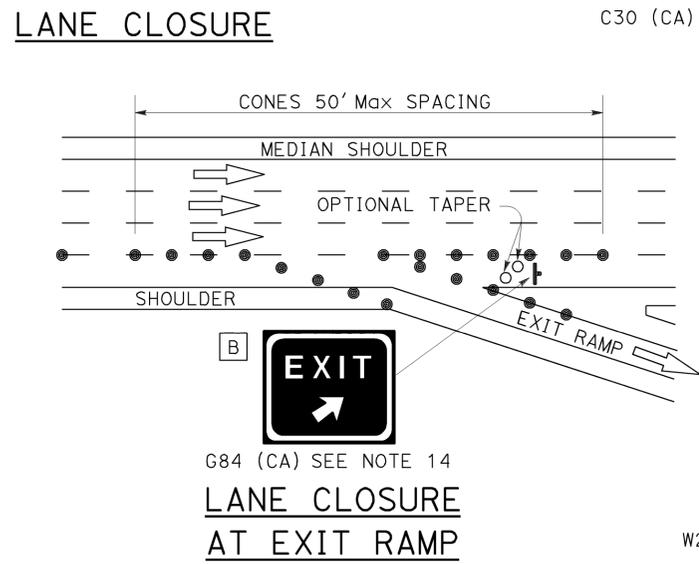
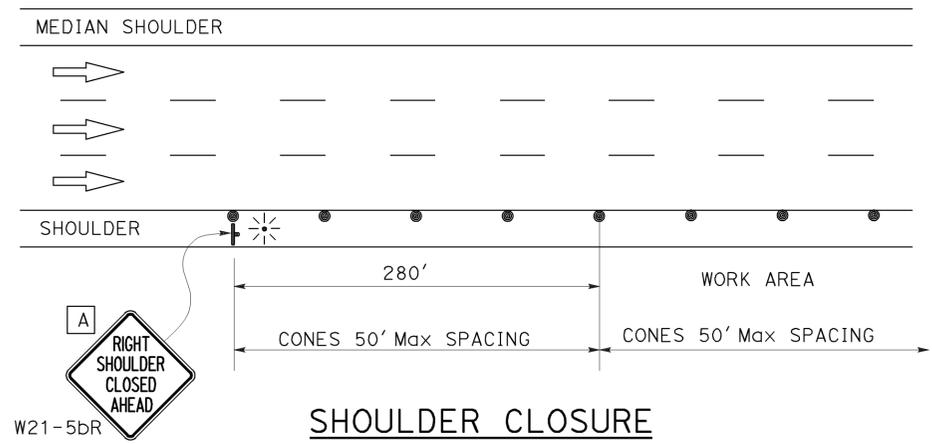
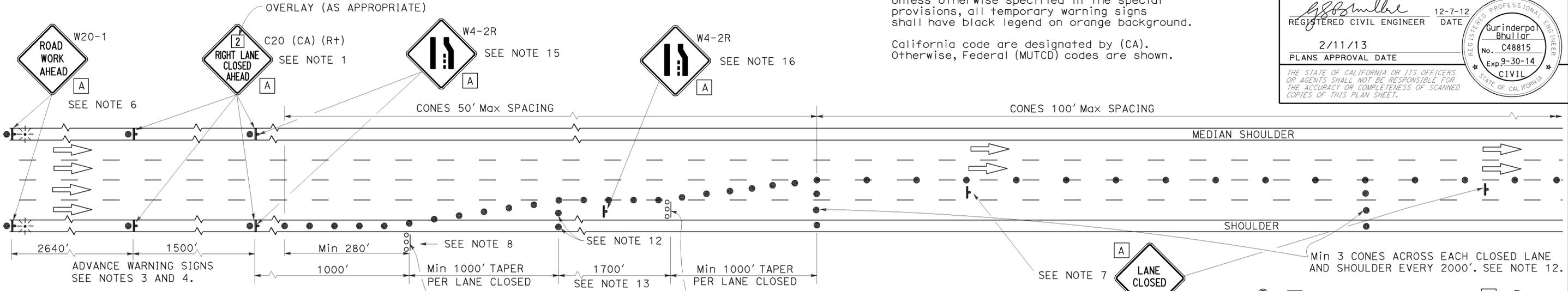
2/11/13
PLANS APPROVAL DATE

RHODEL De CLARO
No. 74058
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	5	18
 REGISTERED CIVIL ENGINEER			12-7-12	DATE	
2/11/13			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:
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
 California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

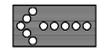


- NOTES:**
- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
 - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 - Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 - Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
 - If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
 - Place a C30 (CA) sign every 2000' throughout length of lane closure.
 - One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
 - A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 - Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 - Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
 - Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
 - When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
 - The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	54" x 48"

LEGEND

●	TRAFFIC CONE
○	TRAFFIC CONE (OPTIONAL TAPER)
⬆	TEMPORARY SIGN
	FLASHING ARROW SIGN (FAS)
○○○	FAS SUPPORT OR TRAILER
⚡	PORTABLE FLASHING BEACON

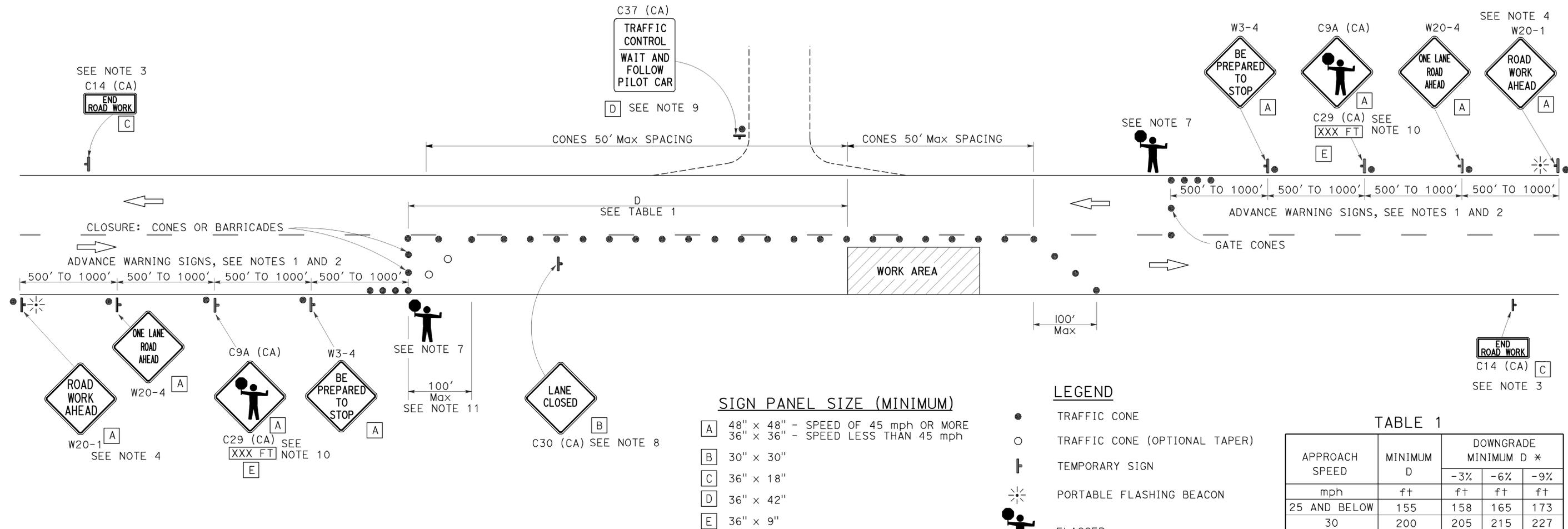
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

TCS-1

REVISOR: _____ DATE: _____
 CALCULATED BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 FUNCTIONAL SUPERVISOR: _____

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

NOTES:

- Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
- An optional C29 (CA) sign may be placed below the C9A (CA) sign.
- Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⊢ TEMPORARY SIGN
- ⚡ PORTABLE FLASHING BEACON
- 👤 FLAGGER

SIGN PANEL SIZE (MINIMUM)

- A 48" x 48" - SPEED OF 45 mph OR MORE
36" x 36" - SPEED LESS THAN 45 mph
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 36" x 9"

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

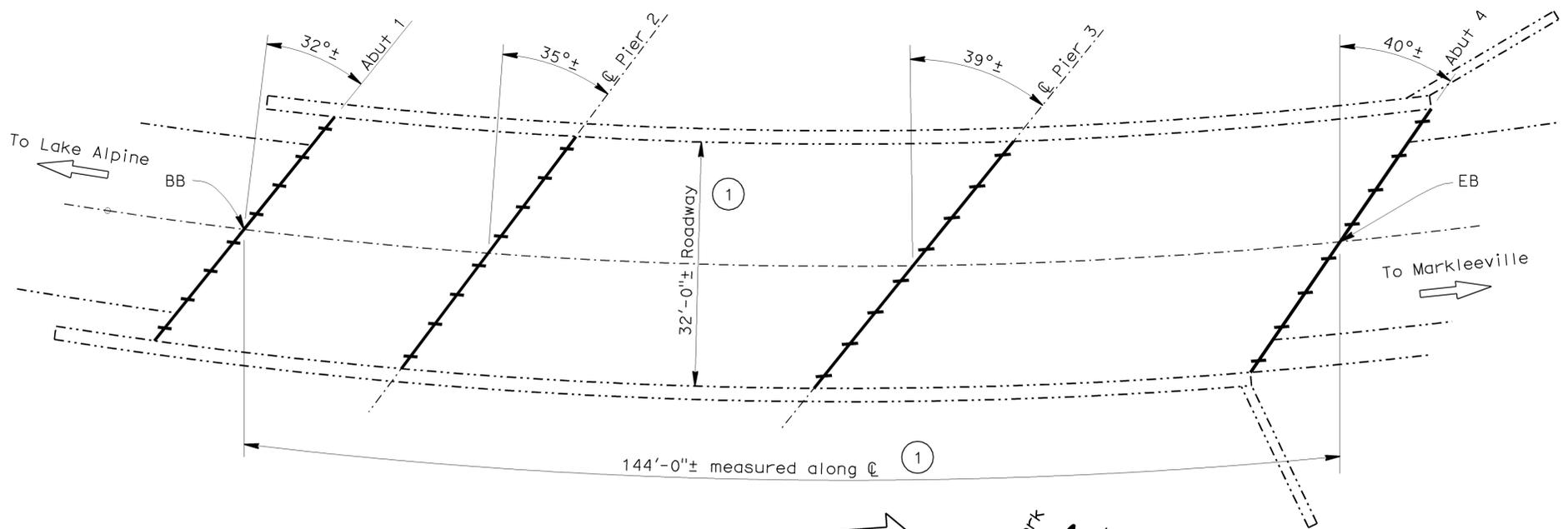
NO SCALE

TCS-2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	7	18

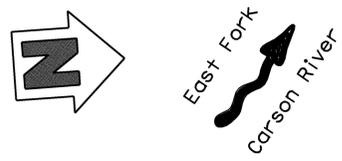
Charles R. Hutchinson 11-16-12
 REGISTERED CIVIL ENGINEER DATE
 2/11/13
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA



EAST FORK CARSON RIVER

BR. NO. 31-0013, RTE 4, ALP, PM 29.78
 1"=10'



EAST FORK CARSON RIVER (BR. NO. 31-0013)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,360	SQFT
PLACE BRIDGE DECK RESIN TREATMENT	5,360	SQFT
FURNISH BRIDGE DECK RESIN TREATMENT MATERIAL	73	GAL
CORE TREATED BRIDGE DECK	6	EA
CLEAN EXPANSION JOINT	162	LF
SNOWPLOW DEFLECTOR	32	EA
JOINT SEAL (MR 1")	162	LF

NOTES: (APPLY TO THIS SHEET ONLY)

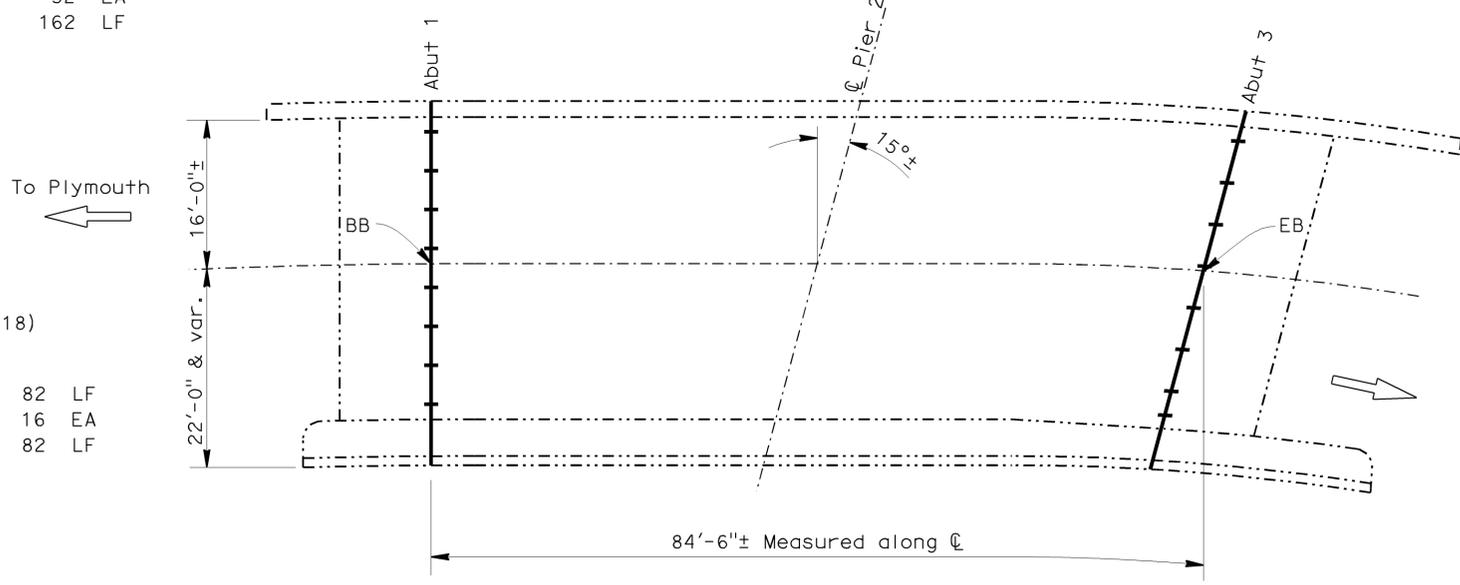
- Indicates existing structure.
- ① Indicates limits of prepare bridge deck and treat bridge deck with high molecular weight methacrylate. Remove two 2" dia. x 5" deep concrete cores in each span. Cores shall be taken over an existing deck crack after the bridge deck is treated with methacrylate. The exact location of the cores are to be determined by the Engineer. Patch cored holes with rapid setting concrete.
- +--- Indicates location of remove existing joint seal, place new joint seal and install or replace Snow Plow Deflectors. For details, see "JOINT SEAL TABLE" on JOINT SEAL DETAILS NO. 1 sheet and SNOW PLOW DEFLECTOR DETAILS sheet.

STANDARD PLANS DATED MAY 2010

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

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	JOINT SEAL DETAILS NO. 1
11	JOINT SEAL DETAILS NO. 2
12	SNOW PLOW DEFLECTOR DETAILS

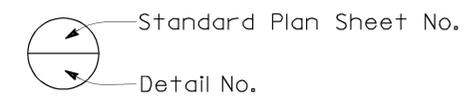


DRY CREEK

BR. NO. 26-0018, RTE 49, AMA, PM 13.57
 1"=10'



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



Michael J. Lee 11-16-12
 DESIGN ENGINEER

DESIGN	BY Charles Hutchinson	CHECKED Hoai Tran
DETAILS	BY Trung Lam	CHECKED Hoai Tran
QUANTITIES	BY Charles Hutchinson	CHECKED Hoai Tran

LAYOUT	BY Trung Lam	CHECKED Hoai Tran
SPECIFICATIONS	BY	PLANS AND SPECIFICATIONS COMPARED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES

ROUTE 4, 12, 33, 49, 99, 104, 108, 140 & 165 BRIDGES
GENERAL PLAN NO. 1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

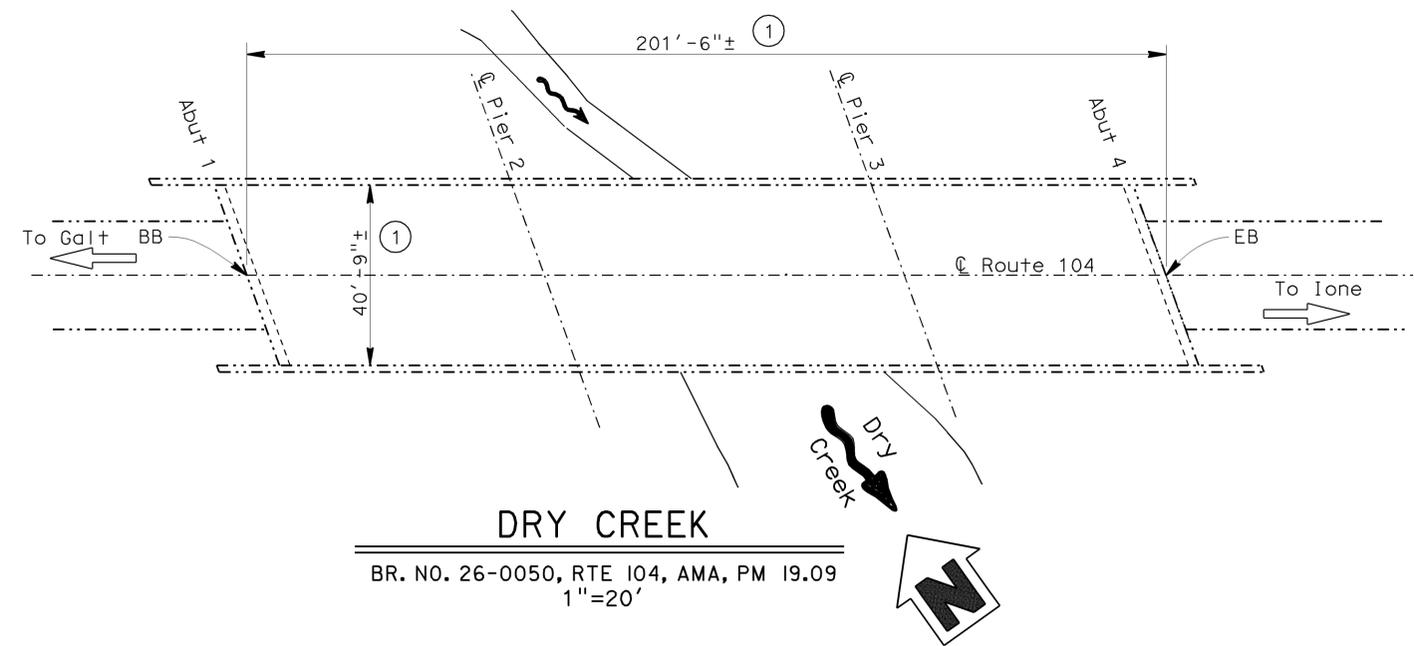
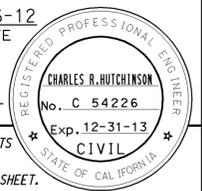
UNIT: 3488
 PROJECT NUMBER & PHASE: 1012000028 1
 CONTRACT NUMBER: 10-0W7001

REVISION DATES	SHEET	OF
11-16-12 7-16-12 8-29-12 9-26-12 10-17-12	1	12

USERNAME => s121289 DATE PLOTTED => 13-FEB-2013 TIME PLOTTED => 09:14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	8	18

Charles R. Hutchinson 11-16-12
 REGISTERED CIVIL ENGINEER DATE
 2/11/13
 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.



DRY CREEK
BR. NO. 26-0050, RTE 104, AMA, PM 19.09
1"=20'

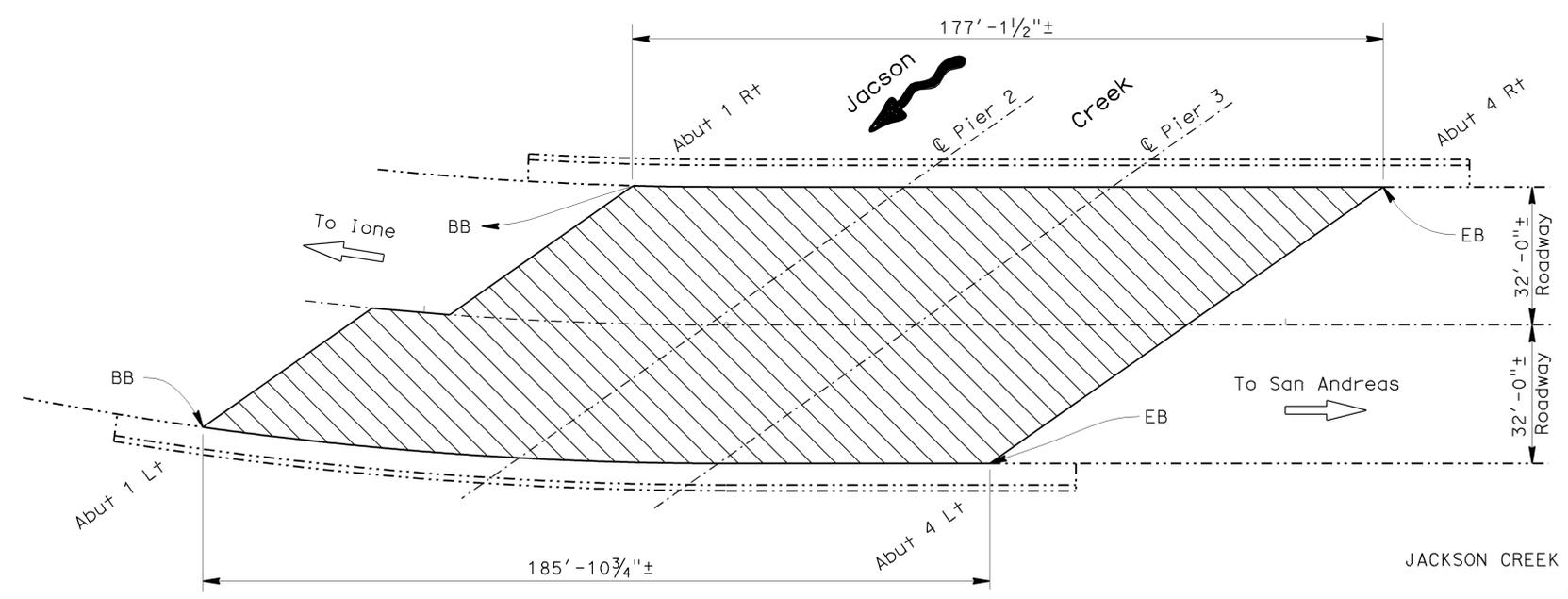
DRY CREEK (BR. NO. 26-0050)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	8,190	SOFT
PLACE BRIDGE DECK RESIN TREATMENT	8,190	SOFT
FURNISH BRIDGE DECK RESIN TREATMENT MATERIAL	111	GAL
CORE TREATED BRIDGE DECK	6	EA

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing structure.
- ① Indicates limits of prepare bridge deck and treat bridge deck with high molecular weight methacrylate. Remove two 2" dia. x 5" deep concrete cores in each span. Cores shall be taken over an existing deck crack after the bridge deck is treated with methacrylate. The exact location of the cores are to be determined by the Engineer. Patch cored holes with rapid setting concrete.
- [Hatched Box] Indicates limits of remove chip seal, prepare bridge deck and treat bridge deck with high molecular weight methacrylate. Remove two 2" dia. x 5" deep concrete cores in each span. Cores shall be taken over an existing deck crack after the bridge deck is treated with methacrylate. The exact location of the cores are to be determined by the Engineer. Patch cored holes with rapid setting concrete.



JACKSON CREEK
BR. NO. 26-0035, RTE 49, AMA, PM 4.1
1"=20'

JACKSON CREEK (BR. NO. 26-0035)

QUANTITIES

PUBLIC SAFETY PLAN		LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	11,615	SOFT
PLACE BRIDGE DECK RESIN TREATMENT	11,615	SOFT
FURNISH BRIDGE DECK RESIN TREATMENT MATERIAL	157	GAL
CORE TREATED BRIDGE DECK	6	EA
REMOVE CHIP SEAL	11,615	SOFT

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

DESIGN BY: Charles Hutchinson	CHECKED: Hoai Tran	LAYOUT BY: Trung Lam	CHECKED: Hoai Tran
DETAILS BY: Trung Lam	CHECKED: Hoai Tran	SPECIFICATIONS BY:	PLANS AND SPECIFICATIONS COMPARED
QUANTITIES BY: Charles Hutchinson	CHECKED: Hoai Tran		

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS

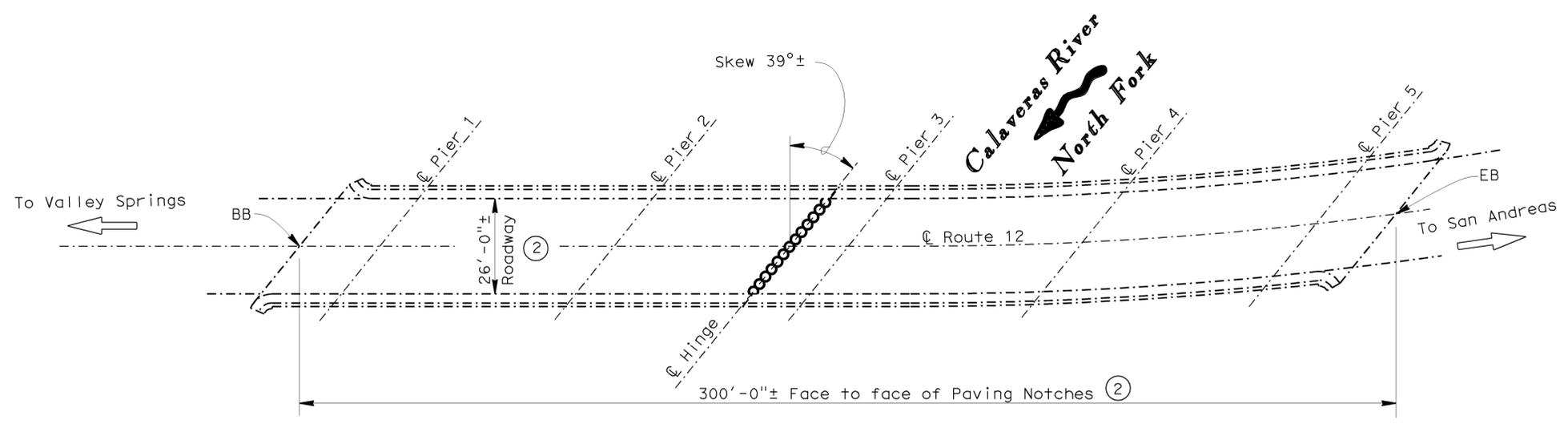
ROUTE 4, 12, 33, 49, 99, 104, 108, 140 & 165 BRIDGES

GENERAL PLAN NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	9	18

Charles R. Hutchinson 11-16-12
 REGISTERED CIVIL ENGINEER DATE
 2/11/13
 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
 CHARLES R. HUTCHINSON
 No. C. 54226
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA



NORTH FORK CALAVERAS RIVER

NORTH FORK CALAVERAS RIVER (BR. NO. 30-0007)

BR. NO. 30-0007, RTE 12, CAL, PM 17.25
1"=20'

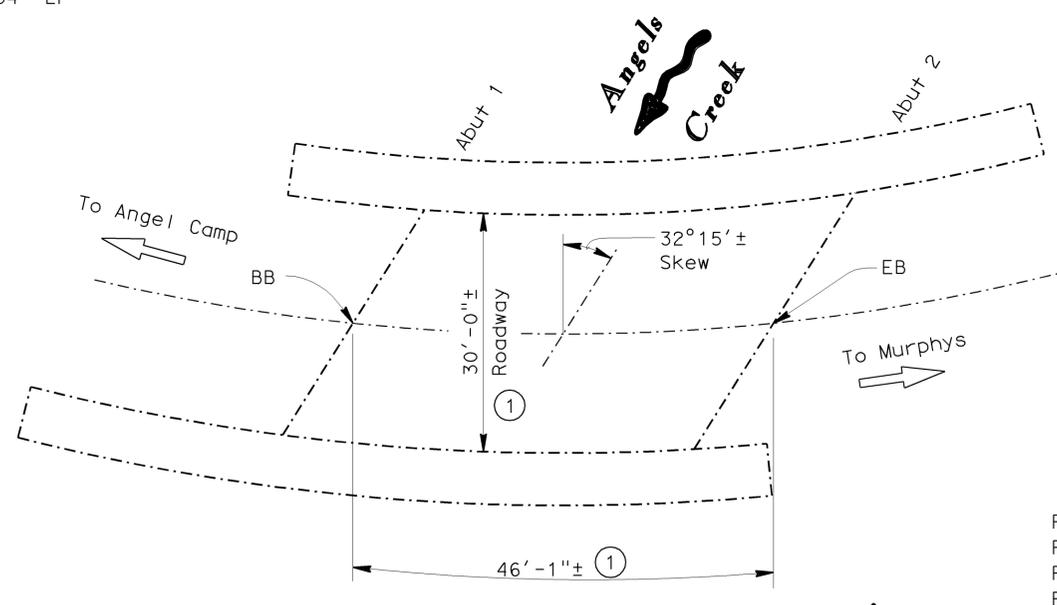


QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	7,800	SQFT
POLYESTER CONCRETE EXPANSION DAM	5	CF
HOT MIX ASPHALT (TYPE A)	49	TON
CLEAN EXPANSION JOINT	34	LF
JOINT SEAL (MR 1")	34	LF

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing structure.
- ① Indicates limits of prepare bridge deck and treat bridge deck with high molecular weight methacrylate. Remove two 2" dia. x 5" deep concrete cores in each span. Cores shall be taken over an existing deck crack after the bridge deck is treated with methacrylate. The exact location of the cores are to be determined by the Engineer. Patch cored holes with rapid setting concrete.
- ② Indicates limits of remove 2"± asphalt concrete overlay and place 2"± HMA (Type A) on deck.
- Indicates location of remove polyester concrete expansion dam and joint seal. Place new polyester concrete expansion dam and joint seal. For details, see JOINT EXPANSION DAM DETAIL on JOINT SEAL DETAILS NO. 1 sheet.



ANGELS CREEK

BR. NO. 30-0008, RTE 4, CAL, PM 21.41
1"=10'



ANGELS CREEK (BR. NO. 30-0008)

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	1,380 SQFT
PLACE BRIDGE DECK RESIN TREATMENT	1,380 SQFT
FURNISH BRIDGE DECK RESIN TREATMENT MATERIAL	19 GAL
CORE TREATED BRIDGE DECK	2 EA

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

 11-16-12 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Hoai Tran	LAYOUT	BY Trung Lam	CHECKED Hoai Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 4, 12, 33, 49, 99, 104, 108, 140& 165 BRIDGES			
	DETAILS	BY Trung Lam	CHECKED Hoai Tran	SPECIFICATIONS	BY	PLANS AND SPECIFICATIONS COMPARED			VARIOUS				
	QUANTITIES	BY Charles Hutchinson	CHECKED Hoai Tran					POST MILE		GENERAL PLAN NO. 3			
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)								ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3488 PROJECT NUMBER & PHASE: 1012000028 1 CONTRACT NUMBER: 10-0W7001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 3 OF 12

USERNAME => s121289 DATE PLOTTED => 14-FEB-2013 TIME PLOTTED => 09:50

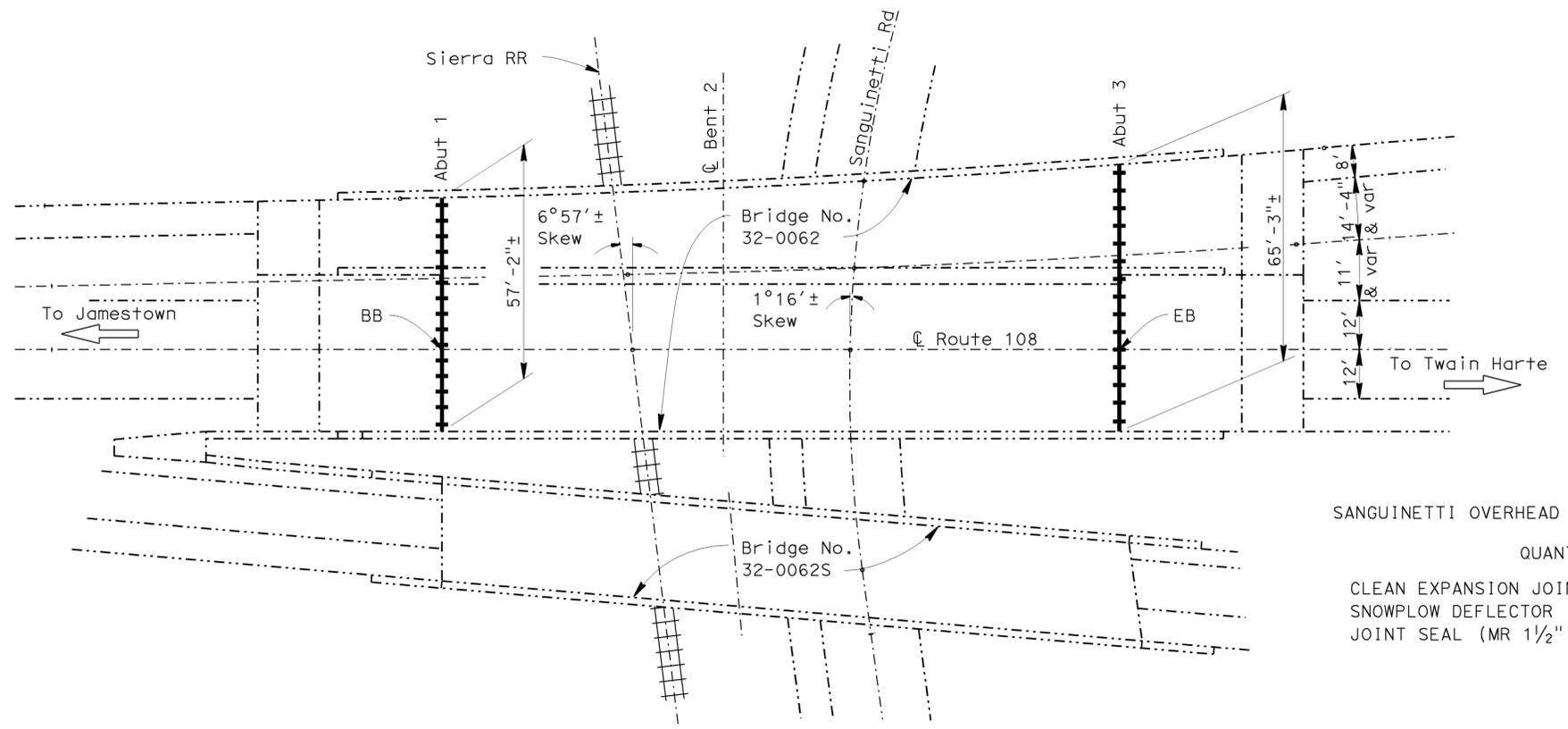
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	10	18

Charles R. Hutchinson 11-16-12
 REGISTERED CIVIL ENGINEER DATE

2/11/13
 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
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-13
 CIVIL

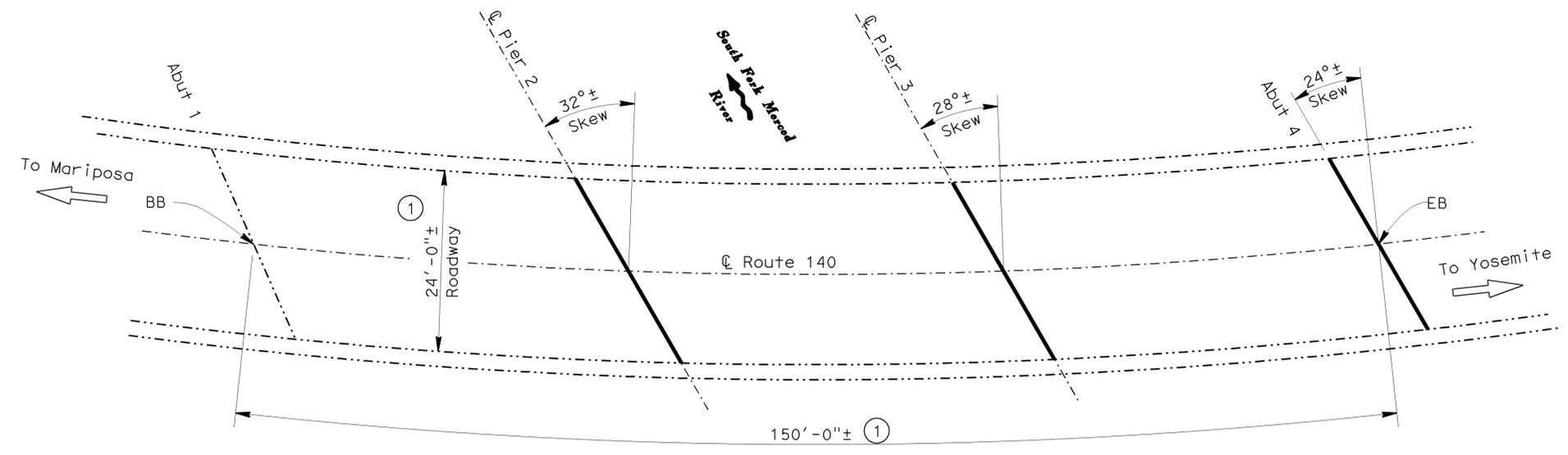


SANGUINETTI OVERHEAD
 BR. NO. 32-0062, RTE 108, TUO, PM R2.02
 1"=20'

SANGUINETTI OVERHEAD (BR. NO. 32-0062)

QUANTITIES	
CLEAN EXPANSION JOINT	148 LF
SNOWPLOW DEFLECTOR	30 EA
JOINT SEAL (MR 1½")	148 LF

- NOTES:** (APPLY TO THIS SHEET ONLY)
- Indicates existing structure.
 - ① Indicates limits of remove 1"± polyester concrete overlay, prepare bridge deck, place galvanic anodes and place 1" polyester concrete overlay. Remove unsound concrete and repair with rapid setting concrete patch as directed by the Engineer. See GALVANIC ANODE PLACEMENT DETAIL on MISCELLANEOUS DETAILS sheet.
 - Indicates location of remove existing joint seal, place new joint seal and install or replace Snow Plow Deflectors. For details, see "JOINT SEAL TABLE" on JOINT SEAL DETAILS NO. 1 sheet and SNOW PLOW DEFLECTOR DETAILS sheet.
 - Indicates location of remove existing joint seal and place new joint seal. For details, see "JOINT SEAL TABLE" on JOINT SEAL DETAILS NO. 1 sheet.



SOUTH FORK MERCED RIVER
 BR. NO. 40-0008, RTE 140, MPA, PM 43.22
 1"=10'

SOUTH FORK MERCED RIVER (BR. NO. 40-0008)

QUANTITIES	
RAPID SETTING CONCRETE (PATCH)	18 CF
REMOVE POLYESTER CONCRETE OVERLAY	3,600 SQFT
REMOVE UNSOUND CONCRETE	18 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,600 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	360 CF
PLACE POLYESTER CONCRETE OVERLAY	3,600 SQFT
GALVANIC ANODE	1,036 EA
CLEAN EXPANSION JOINT	84 LF
JOINT SEAL (MR ½")	84 LF

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

 11-16-12 DESIGN ENGINEER	DESIGN BY Charles Hutchinson	CHECKED HOAI TRAN	LAYOUT BY Trung Lam	CHECKED HOAI TRAN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS	ROUTE 4, 12, 33, 49, 99, 104, 108, 140 & 165 BRIDGES
	DETAILS BY Trung Lam	CHECKED HOAI TRAN	BY	PLANS AND SPECIFICATIONS COMPARED			POST MILE VARIOUS	
	QUANTITIES BY Charles Hutchinson	CHECKED HOAI TRAN	BY	PLANS AND SPECIFICATIONS COMPARED			VARIES	

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

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

UNIT: 3488
 PROJECT NUMBER & PHASE: 1012000028 1
 CONTRACT NUMBER: 10-0W7001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
11-16-12 7-16-12 8-29-12 9-20-12 10-17-12	4	12

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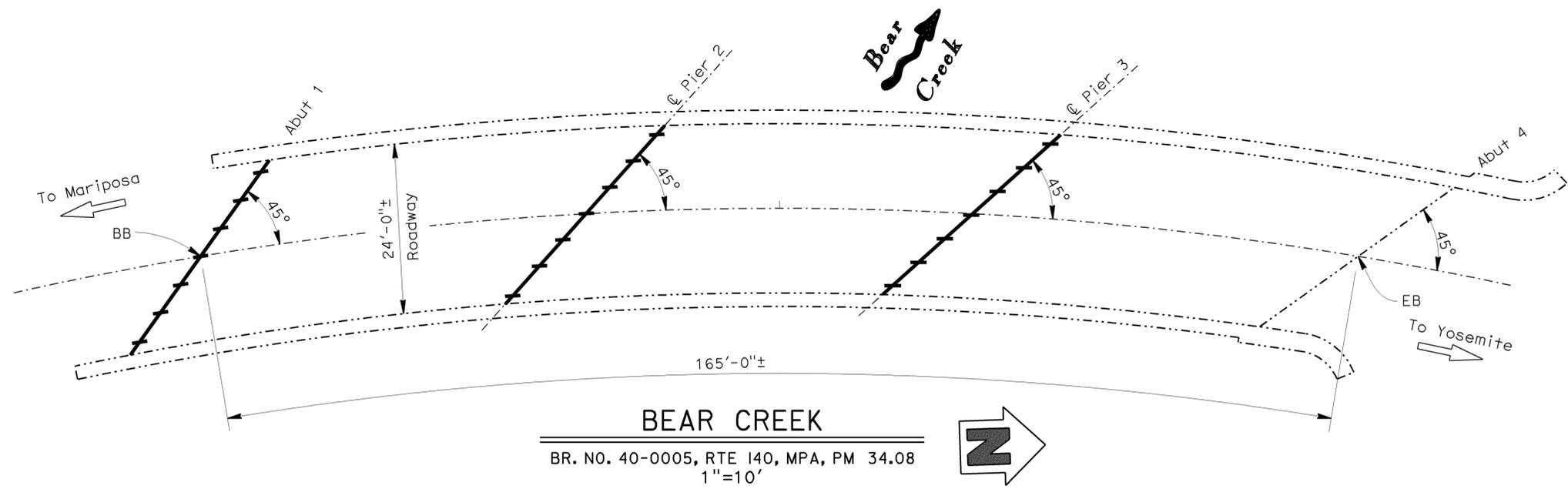
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	11	18

Charles R. Hutchinson 11-16-12
 REGISTERED CIVIL ENGINEER DATE

2/11/13
 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
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA

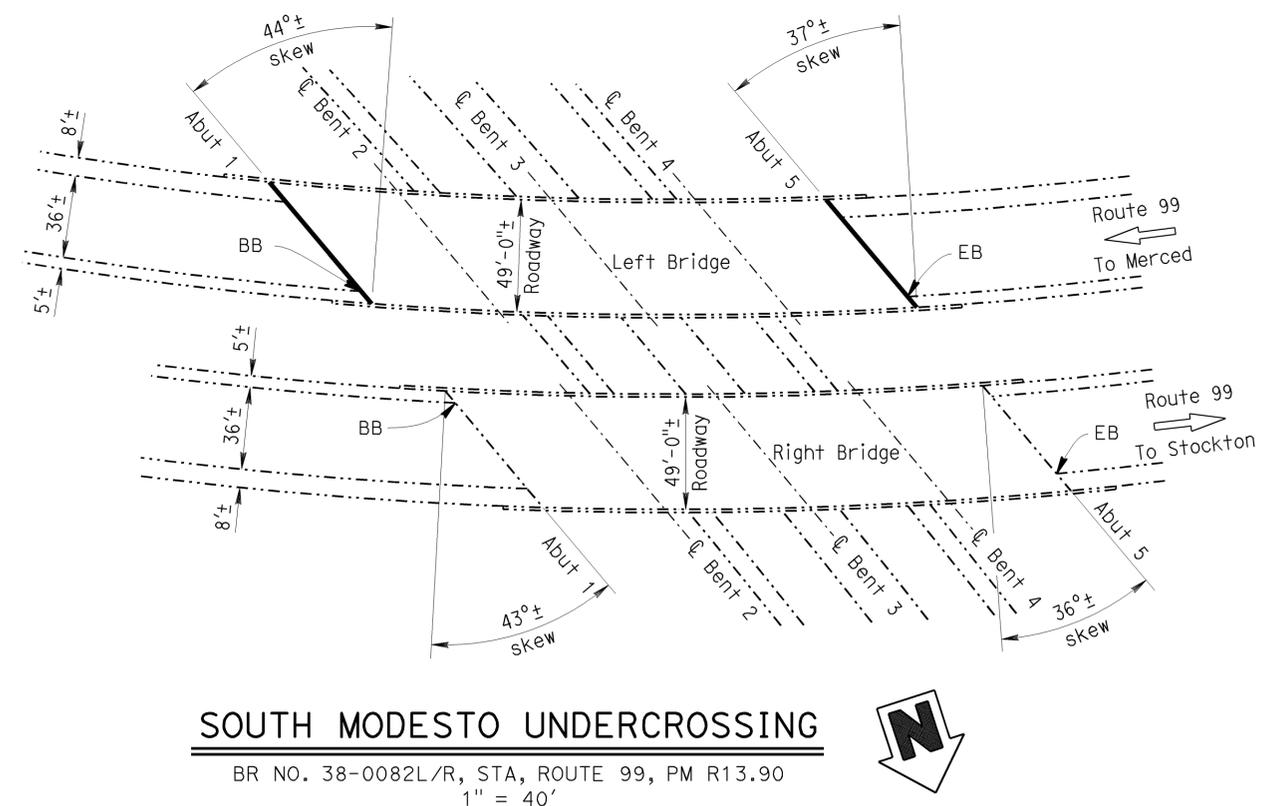


BEAR CREEK (BR. NO. 40-0005)

QUANTITIES

CLEAN EXPANSION JOINT	105	LF
SNOWPLOW DEFLECTOR	21	EA
JOINT SEAL (MR 1/2")	105	LF

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates existing structure.
 - Indicates location of remove existing joint seal, place new joint seal and install or replace Snow Plow Deflectors. For details, see "JOINT SEAL TABLE" on JOINT SEAL DETAILS NO. 1 sheet and SNOW PLOW DEFLECTOR DETAILS sheet.
 - Indicates location of remove existing joint seal and place new joint seal. For details, see "JOINT SEAL TABLE" on JOINT SEAL DETAILS NO. 1 sheet.



SOUTH MODESTO UC (BR. NO. 38-0082L)

QUANTITIES

CLEAN EXPANSION JOINT	131	LF
JOINT SEAL (MR 1/2")	131	LF

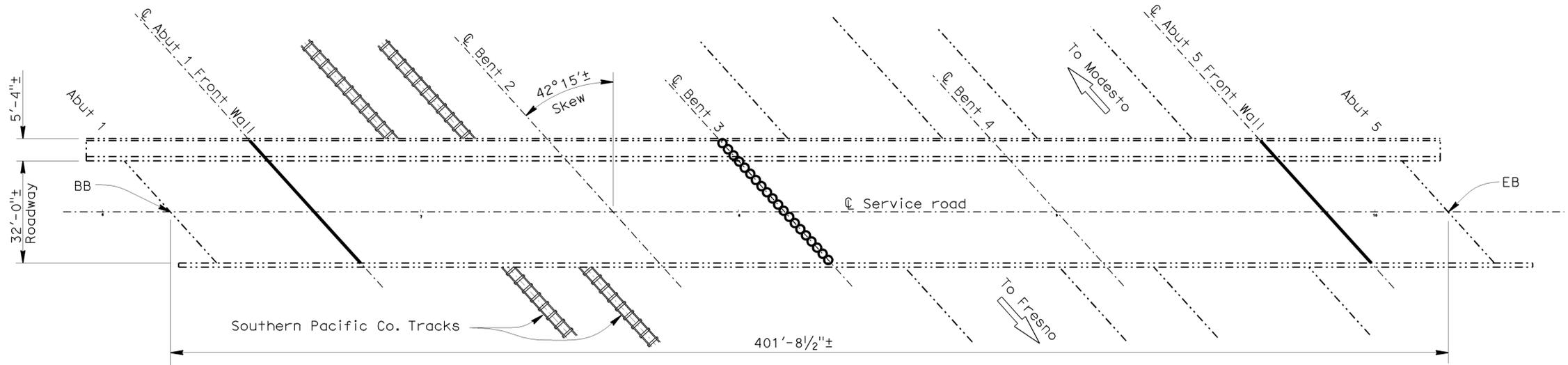
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 11-16-12 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Hoai Tran	LAYOUT	BY Trung Lam	CHECKED Hoai Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 4, 12, 33, 49, 99, 104, 108, 140 & 165 BRIDGES GENERAL PLAN NO. 5			
	DETAILS	BY Trung Lam	CHECKED Hoai Tran	SPECIFICATIONS	BY	PLANS AND SPECIFICATIONS COMPARED			POST MILE	VARIES				
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)		QUANTITIES		BY Charles Hutchinson	CHECKED Hoai Tran	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488	PROJECT NUMBER & PHASE: 1012000028 1	CONTRACT NUMBER: 10-0W7001	DISREGARD PRINTS BEARING EARLIER REVISION DATES			
								REVISION DATES	11-16-12	7-16-12	8-29-12	9-28-12	10-17-12	SHEET 5 OF 12

FILE => 10-0w7001_05_gp5.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	12	18

Charles R. Hutchinson 11-16-12
 REGISTERED CIVIL ENGINEER DATE
 2/11/13
 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.



SERVICE ROAD OVERCROSSING

BR. NO. 38-0094, RTE 99, STA, PM RI0.58
1"=20'



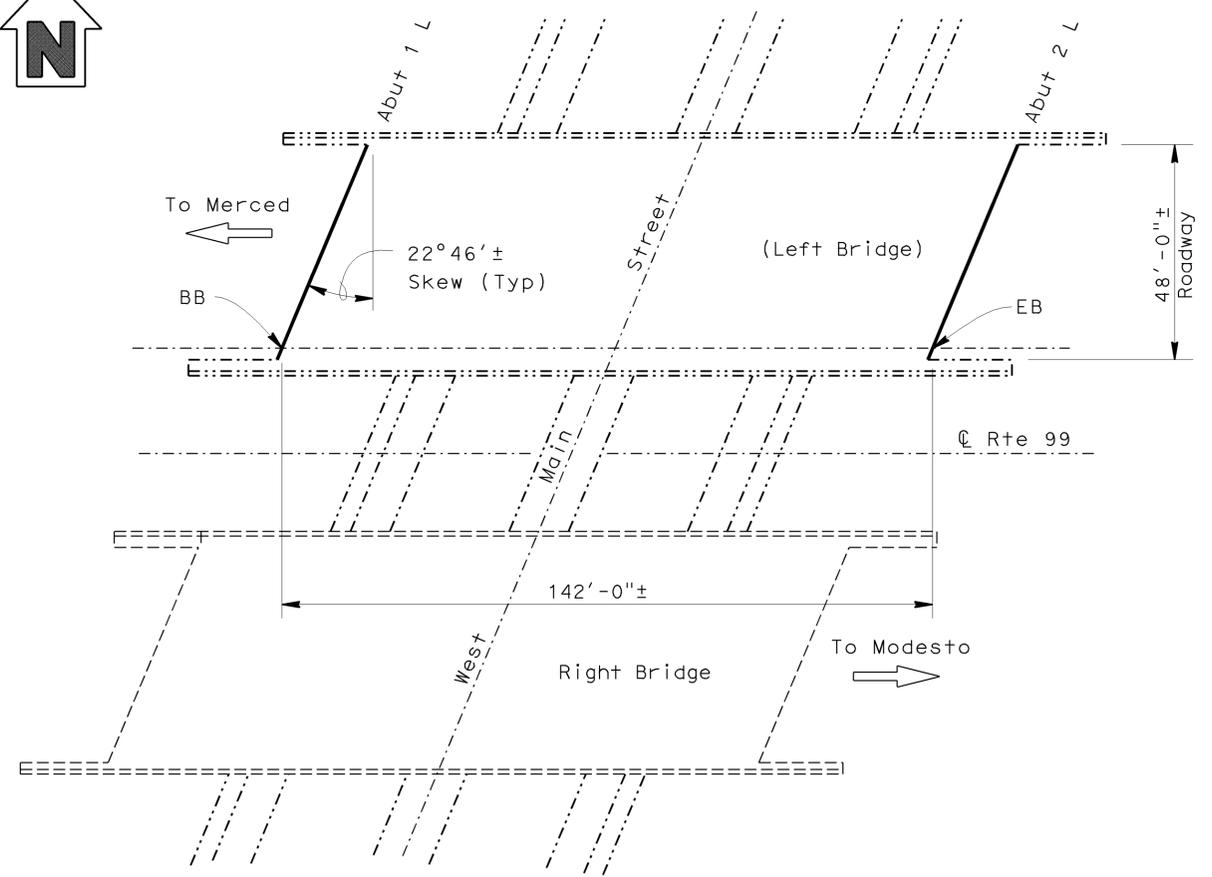
SERVICE ROAD OC (BR. NO. 38-0094)

QUANTITIES

BRIDGE REMOVAL (PORTION)	LUMP SUM
TEMPORARY DECKING	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	1 CY
CLEAN EXPANSION JOINT	100 LF
JOINT SEAL (MR 1")	150 LF

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing structure.
- Indicates location of remove existing joint seal and place new joint seal. For details, see "JOINT SEAL TABLE" on JOINT SEAL DETAILS NO. 1 sheet.
- Indicates location of remove existing joint seal, reconstruct joint and place new joint seal. For details, see "JOINT SEAL TABLE" and "JOINT RECONSTRUCTION DETAIL" on JOINT SEAL DETAILS NO. 2 sheet.



WEST MAIN STREET UC

BR. NO. 38-0141L, RTE 99, STA, PM R3.45
1"=20'



WEST MAIN STREET UC (BR. NO. 38-0141L)

QUANTITIES

CLEAN EXPANSION JOINT	106 LF
JOINT SEAL (MR 1/2")	53 LF
JOINT SEAL (MR 1")	53 LF

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

 11-16-12 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Hoai Tran	LAYOUT	BY Trung Lam	CHECKED Hoai Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 4, 12, 33, 49, 99, 104, 108, 140& 165 BRIDGES								
	DETAILS	BY Trung Lam	CHECKED Hoai Tran	SPECIFICATIONS	BY	PLANS AND SPECIFICATIONS COMPARED			VARIOUS									
	QUANTITIES	BY Charles Hutchinson	CHECKED Hoai Tran					VARIES		GENERAL PLAN NO. 6								
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 1012000028 1	CONTRACT NUMBER: 10-0W7001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>11-16-12 7-18-12 8-29-12 9-20-12 10-17-12</td> <td>6</td> <td>12</td> </tr> </table>	REVISION DATES	SHEET	OF	11-16-12 7-18-12 8-29-12 9-20-12 10-17-12	6	12
REVISION DATES	SHEET	OF																
11-16-12 7-18-12 8-29-12 9-20-12 10-17-12	6	12																

FILE => 10-0w7001_06_gp6.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	13	18

Charles R. Hutchinson 11-16-12
 REGISTERED CIVIL ENGINEER DATE

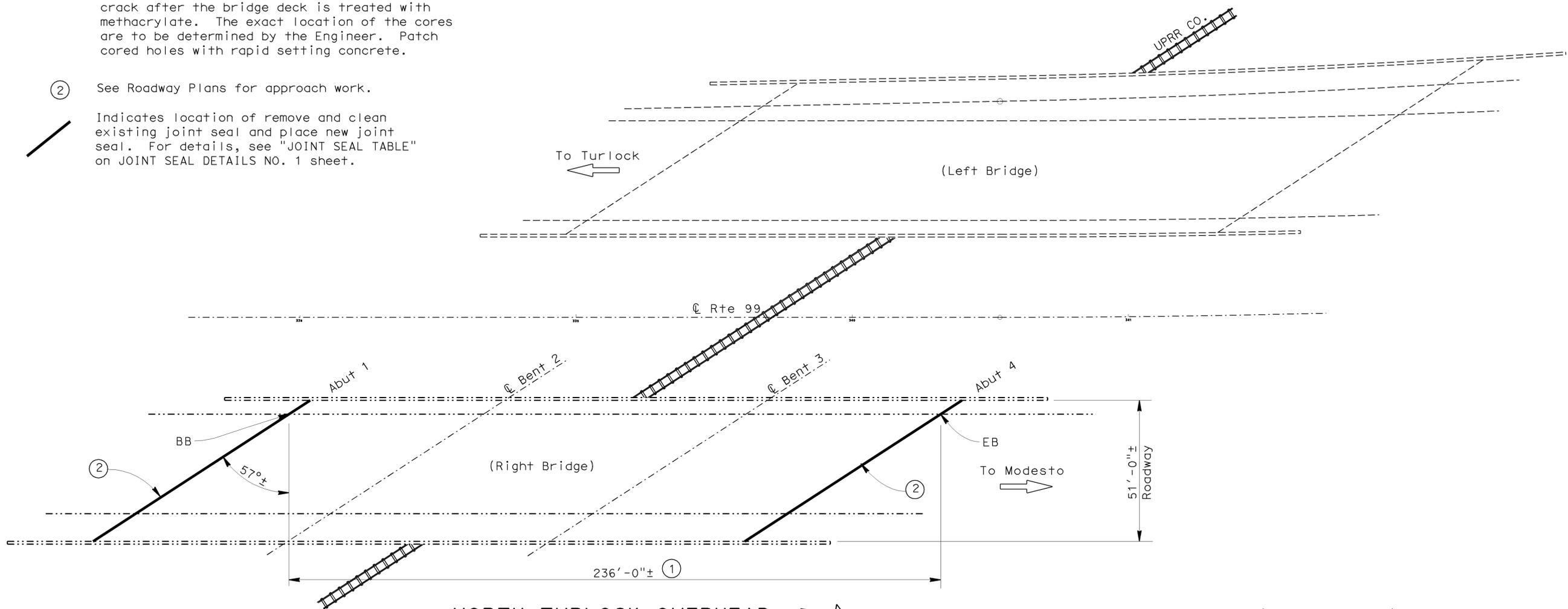
2/11/13
 PLANS APPROVAL DATE

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
 CHARLES R. HUTCHINSON
 No. C. 54226
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing structure.
- ① Indicates limits of remove chip seal, prepare bridge deck and treat bridge deck with high molecular weight methacrylate. Remove two 2" dia. x 5" deep concrete cores in each span. Cores shall be taken over an existing deck crack after the bridge deck is treated with methacrylate. The exact location of the cores are to be determined by the Engineer. Patch cored holes with rapid setting concrete.
- ② See Roadway Plans for approach work.
- /— Indicates location of remove and clean existing joint seal and place new joint seal. For details, see "JOINT SEAL TABLE" on JOINT SEAL DETAILS NO. 1 sheet.



NORTH TURLOCK OVERHEAD
 BR. NO. 38-0144R, RTE 99, STA, PM R6.4I
 1"=20'

NORTH TURLOCK OH (BR. NO. 38-0144R)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	12,035	SQFT
PLACE BRIDGE DECK RESIN TREATMENT	12,035	SQFT
FURNISH BRIDGE DECK RESIN TREATMENT MATERIAL	163	GAL
CORE TREATED BRIDGE DECK	6	EA
REMOVE CHIP SEAL	12,035	SQFT
CLEAN EXPANSION JOINT	188	LF
JOINT SEAL (MR 1")	188	LF

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

DESIGN ENGINEER <i>Michael J. Lee</i> 11-16-12	DESIGN	BY Charles Hutchinson	CHECKED Hoai Tran	LAYOUT	BY Trung Lam	CHECKED Hoai Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 4, 12, 33, 49, 99, 104, 108, 140 & 165 BRIDGES
	DETAILS	BY Trung Lam	CHECKED Hoai Tran	SPECIFICATIONS	BY	PLANS AND SPECIFICATIONS COMPARED			VARIOUS	
	QUANTITIES	BY Charles Hutchinson	CHECKED Hoai Tran					VARIES	GENERAL PLAN NO. 7	

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

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

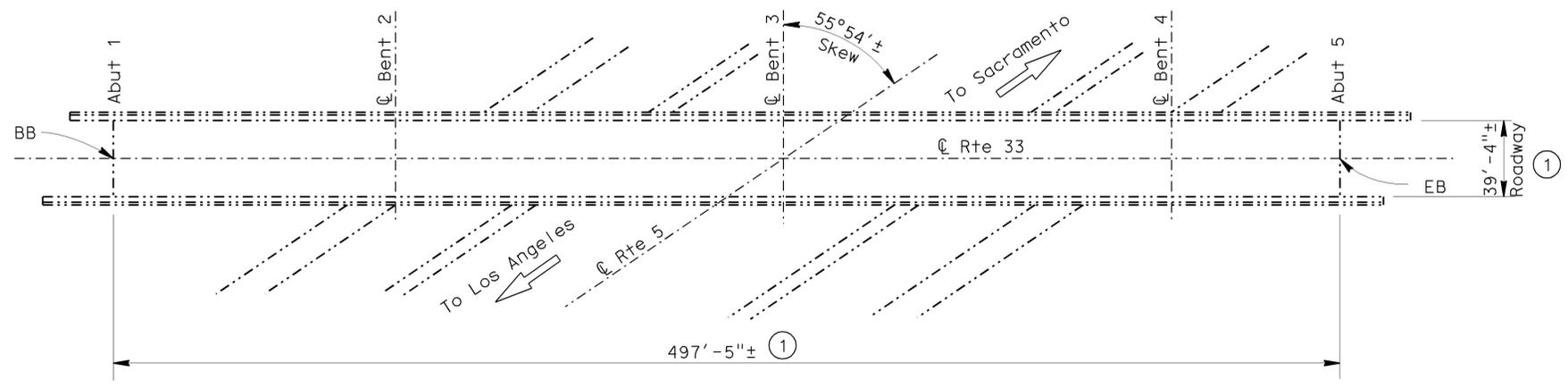
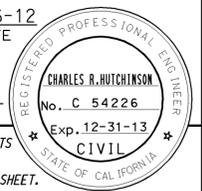
UNIT: 3488 PROJECT NUMBER & PHASE: 1012000028 1 CONTRACT NUMBER: 10-0W7001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
11-16-12 7-16-12 8-20-12 9-20-12 10-17-12	7	12

FILE => 10-0w7001_07_gp7.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	14	18
<i>Charles R. Hutchinson</i> REGISTERED CIVIL ENGINEER			11-16-12	DATE	
2/11/13			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.					



RTE 33/5 SEPARATION
 BR. NO. 39-0169, RTE 33, MER, PM RI6.60
 1"=30'



RTE 33/5 SEPARATION (BR. NO. 39-0169)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	19,550	SQFT
PLACE BRIDGE DECK RESIN TREATMENT	19,550	SQFT
FURNISH BRIDGE DECK RESIN TREATMENT MATERIAL	264	GAL
CORE TREATED BRIDGE DECK	8	EA

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing structure.
- ① Indicates limits of prepare bridge deck and treat bridge deck with high molecular weight methacrylate. Remove two 2" dia. x 5" deep concrete cores in each span. Cores shall be taken over an existing deck crack after the bridge deck is treated with methacrylate. The exact location of the cores are to be determined by the Engineer. Patch cored holes with rapid setting concrete.

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

 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Hoi Tran	LAYOUT	BY Trung Lam	CHECKED Hoi Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 4, 12, 33, 49, 99, 104, 108, 140 & 165 BRIDGES						
	DETAILS	BY Trung Lam	CHECKED Hoi Tran	SPECIFICATIONS	BY	PLANS AND SPECIFICATIONS COMPARED			POST MILE		VARIES					
QUANTITIES	BY Charles Hutchinson	CHECKED Hoi Tran					UNIT: 3488	PROJECT NUMBER & PHASE: 1012000028 1	CONTRACT NUMBER: 10-0W7001	REVISION DATES						
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	<table border="1"> <tr> <td>11-16-12</td> <td>7-16-12</td> <td>8-29-12</td> <td>9-26-12</td> <td>10-17-12</td> </tr> </table>	11-16-12	7-16-12	8-29-12	9-26-12	10-17-12	SHEET 8 OF 12
11-16-12	7-16-12	8-29-12	9-26-12	10-17-12												

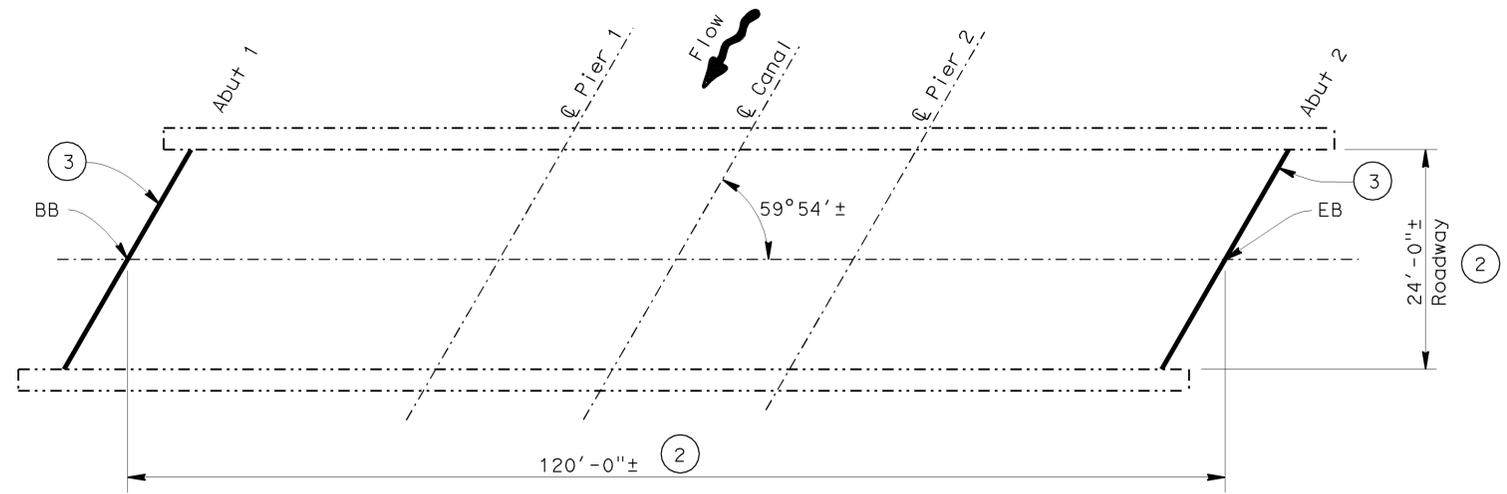
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	15	18

Charles R. Hutchinson 11-16-12
 REGISTERED CIVIL ENGINEER DATE

2/11/13
 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
 CHARLES R. HUTCHINSON
 No. C. 54226
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA



DELTA MENDOTA CANAL
 BR. NO. 39-0200, RTE I65, MER, PM 3.33
 1"=10'



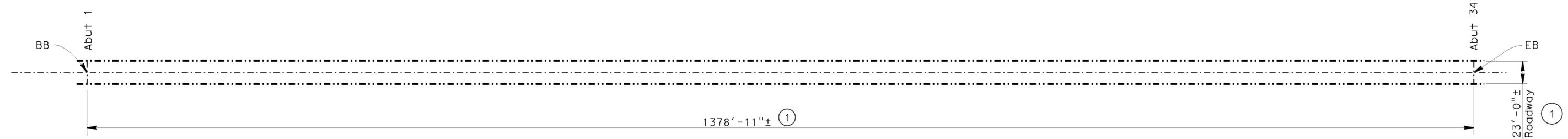
DELTA MENDOTA CANAL (BR. NO. 39-0200)

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	14	CF
REMOVE ASPHALT CONCRETE SURFACING	2,880	SQFT
REMOVE UNSOUND CONCRETE	14	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	2,880	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	576	CF
PLACE POLYESTER CONCRETE OVERLAY	2,880	SQFT
CLEAN EXPANSION JOINT	56	LF
JOINT SEAL (MR 1/2")	56	LF

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing structure.
- ① Indicates limits of prepare bridge deck and treat bridge deck with high molecular weight methacrylate. Remove two 2" dia. x 5" deep concrete cores in each span. Cores shall be taken over an existing deck crack after the bridge deck is treated with methacrylate. The exact location of the cores are to be determined by the Engineer. Patch cored holes with rapid setting concrete.
- ② Indicates limits of remove 2"± asphalt concrete, prepare bridge deck and place 2" polyester concrete overlay. Remove unsound concrete and patch with rapid setting concrete prior to bridge deck treatment. Retain scupper openings.
- ③ See Road Plans for approach work.
- /— Indicates location of remove existing joint seal and place new joint seal. For details, see "JOINT SEAL TABLE" on JOINT SEAL DETAILS NO. 1 sheet.



MERCED RIVER
 BR. NO. 39-0217, RTE I65, MER, PM 30.29
 1"=50'



MERCED RIVER (BR. NO. 39-0217)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	31,720	SQFT
PLACE BRIDGE DECK RESIN TREATMENT	31,720	SQFT
FURNISH BRIDGE DECK RESIN TREATMENT MATERIAL	428	GAL
CORE TREATED BRIDGE DECK	8	EA

NOTE:
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 11-16-12 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Hoai Tran	LAYOUT	BY Trung Lam	CHECKED Hoai Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 4, 12, 33, 49, 99, 104, 108, 140& 165 BRIDGES
	DETAILS	BY Trung Lam	CHECKED Hoai Tran	SPECIFICATIONS	BY	CHECKED Hoai Tran			VARIOUS	
	QUANTITIES	BY Charles Hutchinson	CHECKED Hoai Tran		BY	CHECKED Hoai Tran			VARIES	

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

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

UNIT: 3488
 PROJECT NUMBER & PHASE: 1012000028 1
 CONTRACT NUMBER: 10-0W7001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
11-16-12 7-16-12 8-29-12 9-20-12 10-17-12	9	12

USERNAME => s121289 DATE PLOTTED => 13-FEB-2013 TIME PLOTTED => 09:15
 FILE => 10-0w7001_09_gp9.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	16	18

Charles R. Hutchinson
 REGISTERED CIVIL ENGINEER
 DATE 11-16-12
 Exp. 12-31-13
 CIVIL
 No. C 54226
 STATE OF CALIFORNIA

2/11/13
 PLANS APPROVAL DATE
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JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (inches)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXPANSION JOINT (inches)
DRY CREEK	26-0018	Abut 1	1/2 *	41	NO	12
		Abut 3	1/2 *	41	NO	12
NORTH FORK CALAVERAS RIVER	30-0007	Hinge 3	1 *	34	NO	20
EAST FORK CARSON RIVER	31-0013	Abut 1	1 *	38	NO	12
		Pier 2	1 *	40	NO	12
		Pier 3	1 *	42	NO	12
		Abut 4	1 *	42	NO	12
SANGUINETTI OVERHEAD	32-0062	Abut 1	1 1/2	65	NO	12
		Abut 3	1/2	83	NO	12
SOUTH FORK MERCED RIVER	40-0008	Pier 2	1/2	29	NO	12
		Pier 3	1/2	28	NO	12
		Abut 4	1/2	27	NO	12
SOUTH MODESTO UC	38-0082L	Abut 1	1/2	69	NO	12
		Abut 5	1/2	62	NO	12
BEAR CREEK	40-0005	Abut 1	1/2 *	35	NO	12
		Pier 1	1/2 *	35	NO	12
		Pier 2	1/2 *	35	NO	12
SERVICE ROAD OC	38-0094	Abut 1 Fr Wall	1	49	Yes	-
		Bent 3	1	49	Yes	-
		Abut 5 Fr Wall	1	49	Yes	-
WEST MAIN STREET UC	38-0141L	Abut 1	1	53	NO	12
		Abut 2	1/2	53	NO	12
NORTH TURLOCK OVERHEAD	38-0144R	Abut 1	1	94	NO	12
		Abut 4	1	94	NO	12
DELTA MENDOTA CANAL	39-0200	Abut 1	1/2	28	NO	12
		Abut 2	1/2	28	NO	12

DECK REPAIR TABLE

REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)					
BRIDGE NUMBER	TOTAL DECK AREA (SQFT)	APPROXIMATE AREA DAMAGED (percent)	APPROXIMATE DEPTH (inches)	REMOVE UNSOUND CONCRETE (CF)	PATCH WITH RAPID SETTING CONCRETE (CF)
40-0008	3600	2	3	18	18
39-0200	2880	2	3	14	14

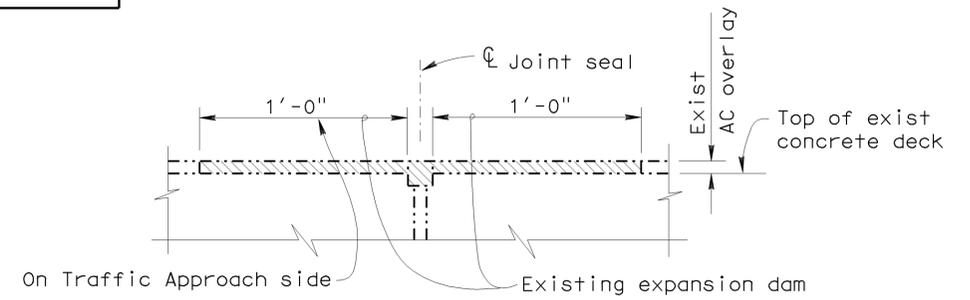
NOTE:
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The following note applies to JOINT SEAL TYPE A:

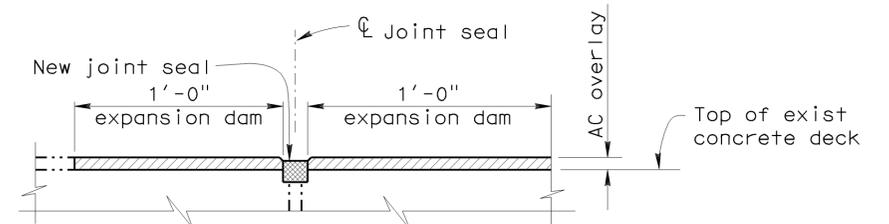
Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches curb or rail joint. For details not shown see **B6-21**

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:
 - 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 **B6-21**



EXISTING



RECONSTRUCTION

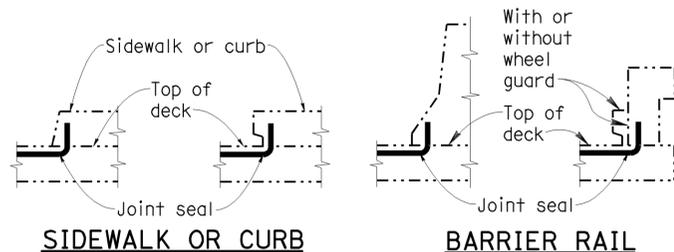
JOINT EXPANSION DAM DETAIL

NO SCALE

Note:

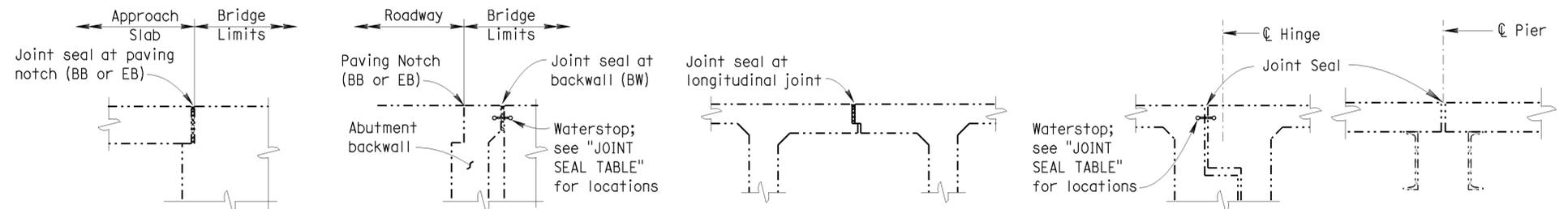
* Use Type B joint seal.

All pourable joint seals shall be silicone.



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



JOINT SEAL LOCATION

NO SCALE

DESIGN	BY Charles Hutchinson	CHECKED Hoai Tran
DETAILS	BY Trung Lam	CHECKED Hoai Tran
QUANTITIES	BY Charles Hutchinson	CHECKED Hoai Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

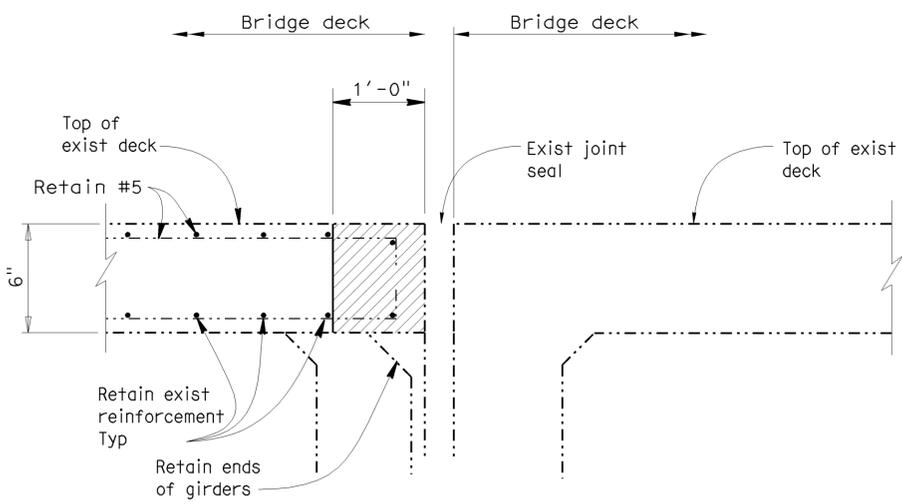
ROUTE 4, 12, 33, 49, 99, 104, 108, 140 & 165 BRIDGES

JOINT SEAL DETAILS NO. 1

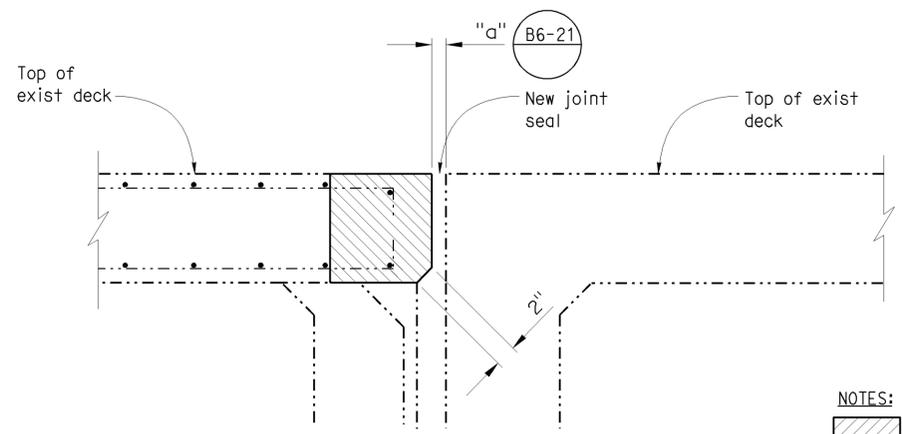
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	17	18

Charles R. Hutchinson
 REGISTERED CIVIL ENGINEER
 11-16-12 DATE
 2/11/13 PLANS APPROVAL DATE
 No. C 54226
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA

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EXISTING



RECONSTRUCTION

JOINT RECONSTRUCTION DETAIL

NO SCALE

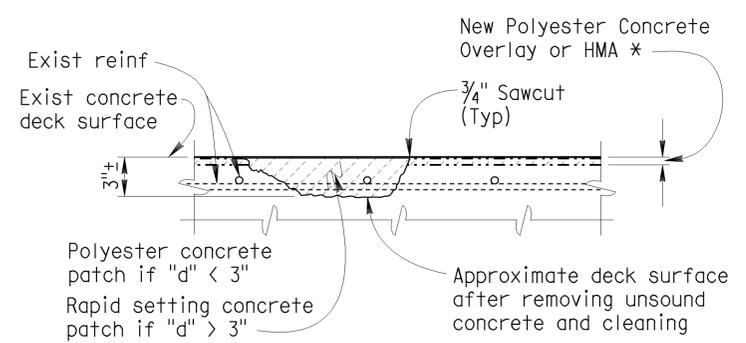
- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove bridge (portion).
 - Indicates limits of replace concrete.
 - "a" Reconstruct gap width as determined by the Engineer.

GENERAL NOTES
LOAD FACTOR DESIGN

- DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by CALTRANS)
 DEAD LOAD: Includes 35 psf for future wearing surface.
 LIVE LOADING: HS20-44 and alternative and permit design load.
 REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f'_c = 3600$ psi
 $n = 8$

TEMPORARY DECK PLATE		
MOMENT DEMAND/FOOT ($\frac{\text{kip-ft}}{\text{ft}}$)	BOLT SHEAR/FOOT ($\frac{\text{kip}}{\text{ft}}$)	BOLT TENSION (Kip)
16	9	10

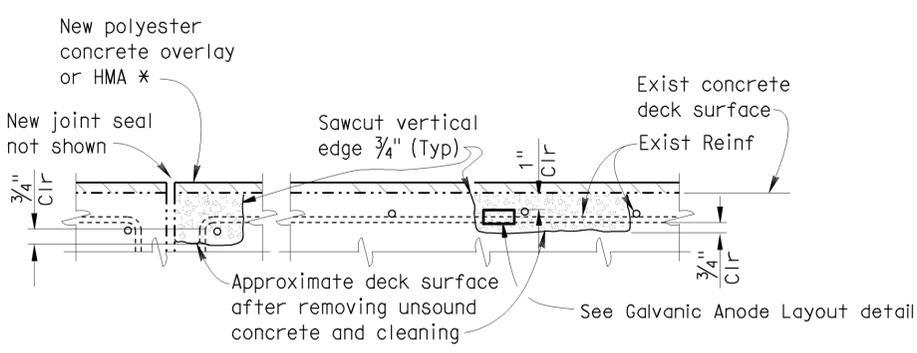
- NOTES:
- Plate deflection shall not exceed $s/300$. ($s = \text{span [FT]}$)
 - Minimum plate thickness shall be equal or greater than $\frac{7}{8}$ ".
 - Maximum anchorage spacing shall not exceed 9".
 - Anchorage washer shall be neoprene or similar.



POLYESTER AND ASPHALT CONCRETE OVERLAY

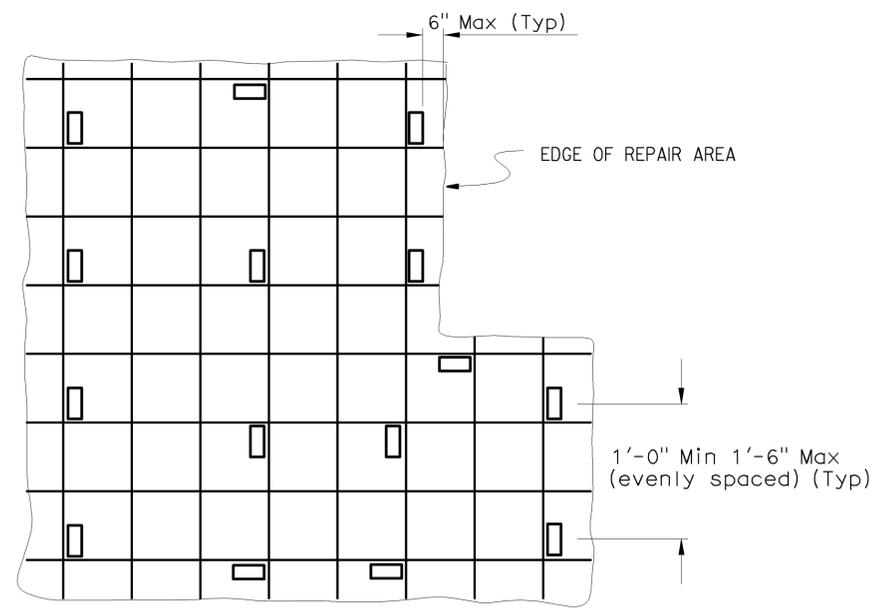
DECK REPAIR DETAIL

* Use Rapid Setting Concrete Patch only on the bridge decks being treated with methacrylate or HMA.



GALVANIC ANODE LAYOUT DETAIL

Note: All galvanic anodes shall be installed with embedding mortar.



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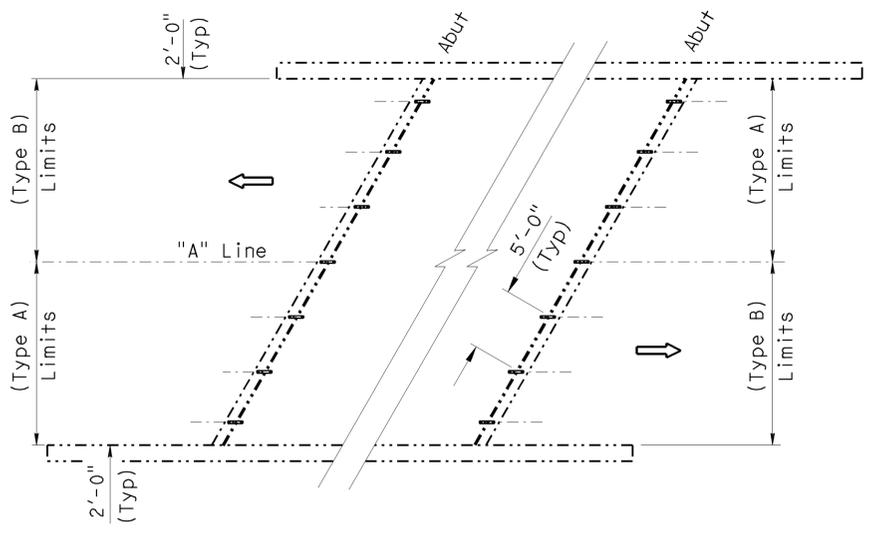
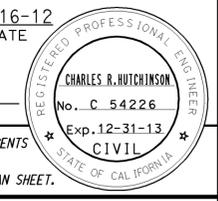
DESIGN BY Charles Hutchinson CHECKED Hoai Tran DETAILS BY Trung Lam CHECKED Hoai Tran QUANTITIES BY Charles Hutchinson CHECKED Hoai Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 4, 12, 33, 49, 99, 104, 108, 140 & 165 BRIDGES
			VARIOUS	
			POST MILE	
			VARIES	JOINT SEAL DETAILS NO. 2

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3488 PROJECT NUMBER & PHASE: 1012000028 1 CONTRACT NO.: 10-0W7001 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
11-16-12 3-29-12 9-20-12 10-17-12	11	12

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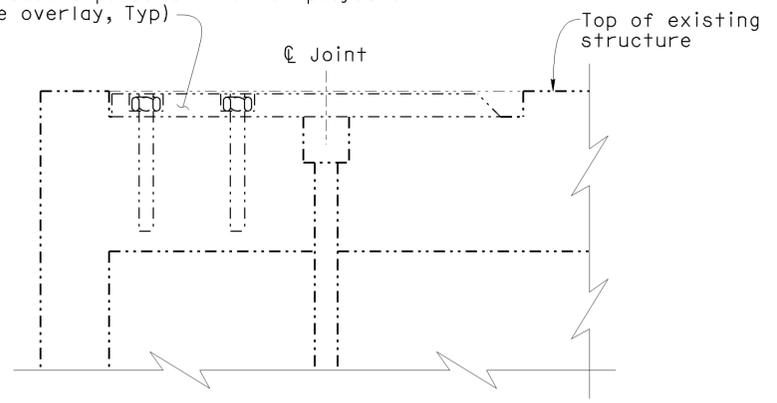
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp, Ama, Cal, Mpa, Mer, etc.	4, 12, 33, 49, 99, etc.	Var	18	18
Charles R. Hutchinson REGISTERED CIVIL ENGINEER			11-16-12	DATE	
2/11/13			PLANS APPROVAL DATE		
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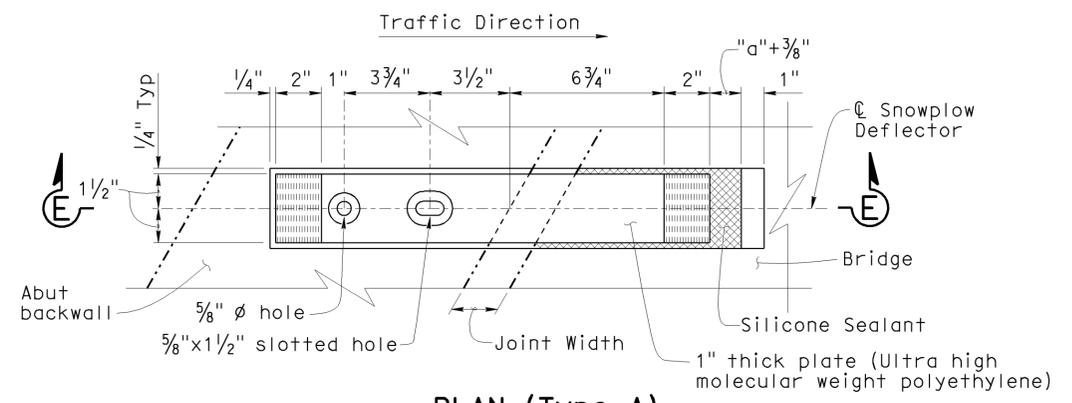
TYPICAL SNOWPLOW DEFLECTOR LAYOUT
1" = 10"

Notes:
- Existing Steel Snowplow Deflector Units and spacing not shown for clarity.

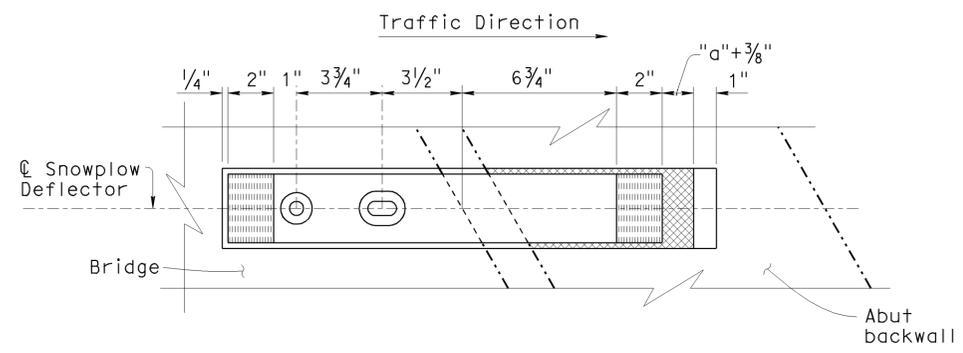
Remove existing Steel Snowplow Deflector Unit. (Bar with nuts and cut washers. Grind down 5/8" ± Ø concrete anchorage device flush with surface before placement of new polyester concrete overlay, Typ)



EXISTING PART SECTION
3"=1'-0"

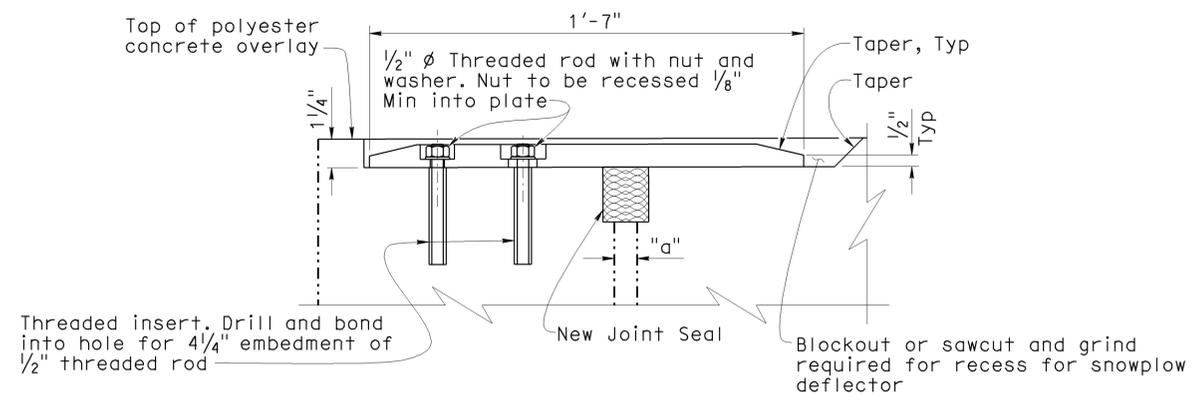


PLAN (Type A)



PLAN (Type B)

Note: For details not noted, see "PLAN (Type A)"



SECTION E-E

SNOWPLOW DEFLECTOR
3"=1'-0"

NOTE:
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NOTE: (APPLY TO THIS SHEET ONLY)

- Thread locking system to be used at all threaded rod and nut locations.

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)	DESIGN	BY Charles Hutchinson	CHECKED Hoai Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	VARIOUS	ROUTE 4, 12, 33, 49, 99, 104, 108, 140 & 165 BRIDGES		
	DETAILS	BY Trung Lam	CHECKED Hoai Tran		STRUCTURE MAINTENANCE DESIGN	POST MILE		VARIES	
	QUANTITIES	BY Charles Hutchinson	CHECKED Hoai Tran		SNOW PLOW DEFLECTOR DETAILS	REVISION DATES		8-27-12, 9-20-12, 10-17-12, 11-16-12	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3488	PROJECT NUMBER & PHASE: 1012000028 1	CONTRACT NUMBER: 10-0W7001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 12 OF 12