Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50, 51	Var	1	31

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES
3-5	CONSTRUCTION AREA SIGNS
6-7	PAVEMENT DELINEATION QUANTITIES
8-15	TRAFFIC CONTROL SYSTEMS
16-20	REVISED STANDARD PLANS
	STRUCTURE PLANS
21-31	ROUTE 50 AND 51 BRIDGES

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

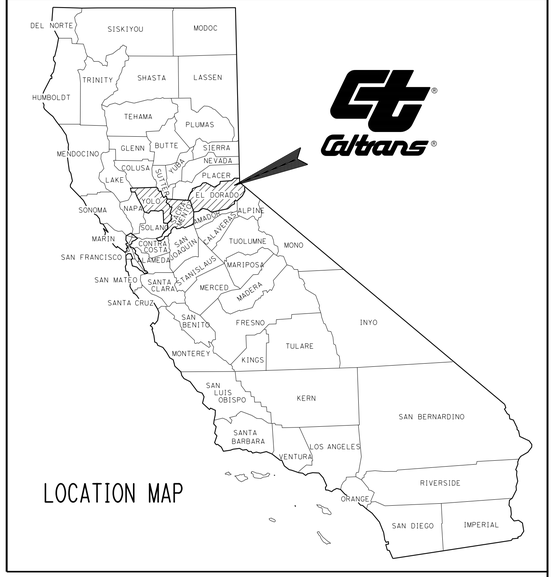
STATE OF CALIFORNIA

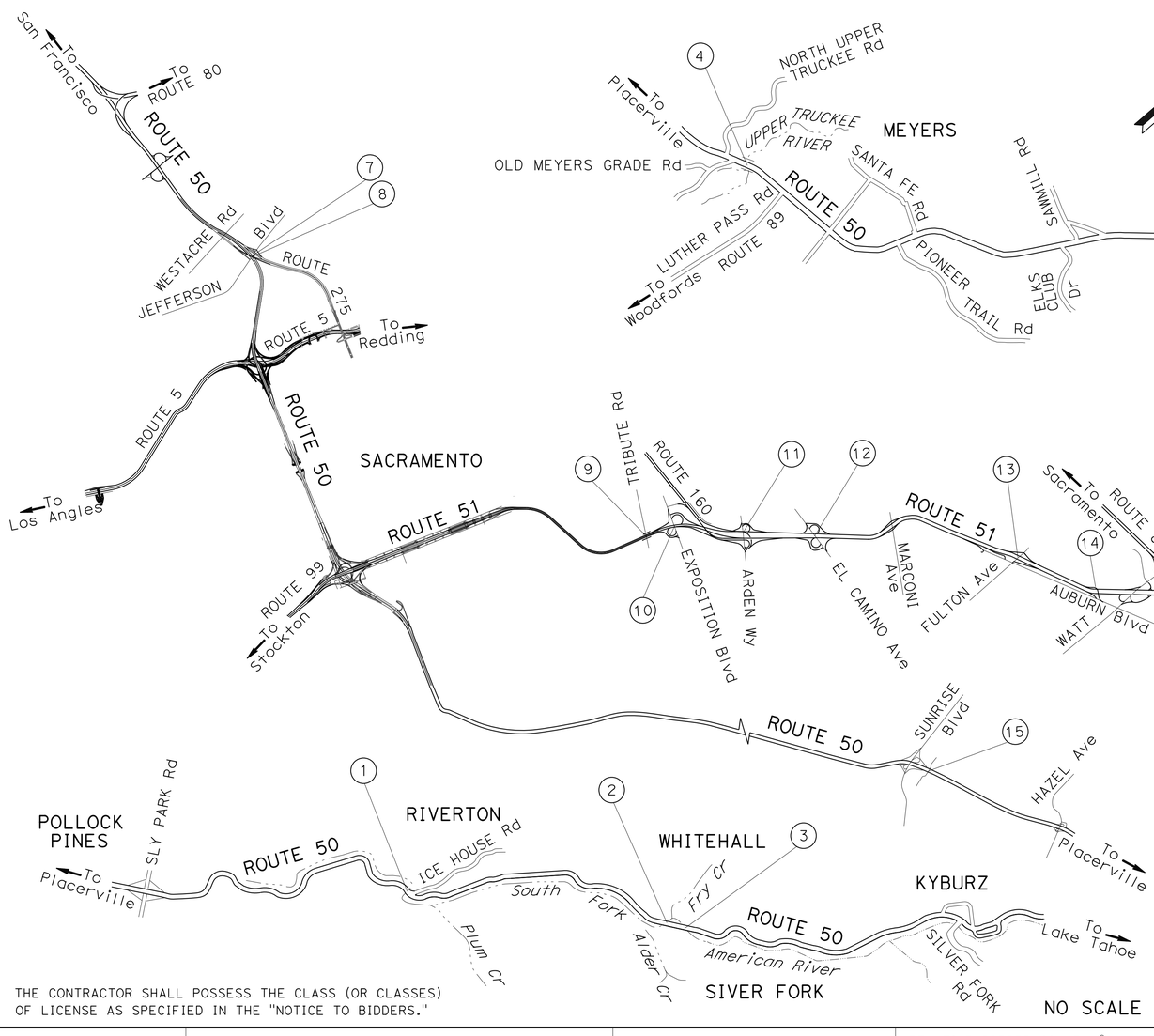
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN EL DORADO, SACRAMENTO AND YOLO COUNTIES AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010





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

LOCATIONS OF CONSTRUCTION

Loc No. ⑪	COUNTY	ROUTE	PM	BRIDGE NUMBER	STRUCTURE NAME
1	ED	50	39.68	25-0008	SOUTH FORK AMERICAN RIVER
2	ED	50	R44.12	25-0098	SOUTH FORK AMERICAN RIVER
3	ED	50	R44.25	25-0099	SOUTH FORK AMERICAN RIVER
4	ED	50	70.31	25-0012	UPPER TRUCKEE RIVER
5	ED	50	76.41	25-0010	UPPER TRUCKEE RIVER
6	ED	50	77.33	25-0013	TROUT CREEK
7	Yol	50	2.48	22-0106L	JEFFERSON Blvd UC
8	Yol	50	2.48	22-0106R	JEFFERSON Blvd UC
9	Sac	51	3.14	24-0133	CAL EXPO UC
10	Sac	51	3.36	24-0285	EXPOSITION Blvd OC
11	Sac	51	4.02	24-0115L	ARDEN WAY UC
12	Sac	51	4.74	24-0116	EL CAMINO Ave OC
13	Sac	51	6.79	24-0123	FULTON Ave OC
14	Sac	51	7.70	24-0124K	AUBURN Blvd RAMP OC
15	Sac	50	12.85	24-0171	FAIR OAKS Ped UC

D.S. Lamb 1-16-13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February 25, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID S LAMB — No. C53386 — 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.

CONTRACT No.	03-4M5104
PROJECT ID	0312000008

PROJECT MANAGER: RONALD SYKES
DESIGN ENGINEER: RONALD SYKES

LAST REVISION 00-00-00
DATE PLOTTED => 27-FEB-2013
TIME PLOTTED => 17:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50, 51	Var	2	31

D. S. Lamb 1-16-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

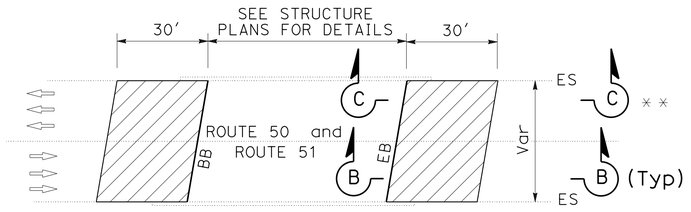
REGISTERED PROFESSIONAL ENGINEER — DAVID S. LAMB No. C35526 Exp. 9-30-13 CIVIL — STATE OF CALIFORNIA

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.

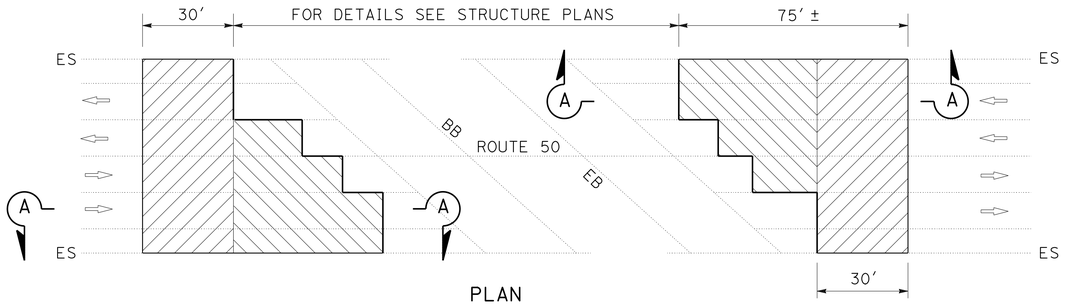
NOTE:

1. SEE STRUCTURE PLANS FOR BRIDGE DETAILS AND NUMBER OF LANES IN EACH DIRECTION OF TRAFFIC.
2. MATCH Exist ROADWAY CROSS SLOPES.

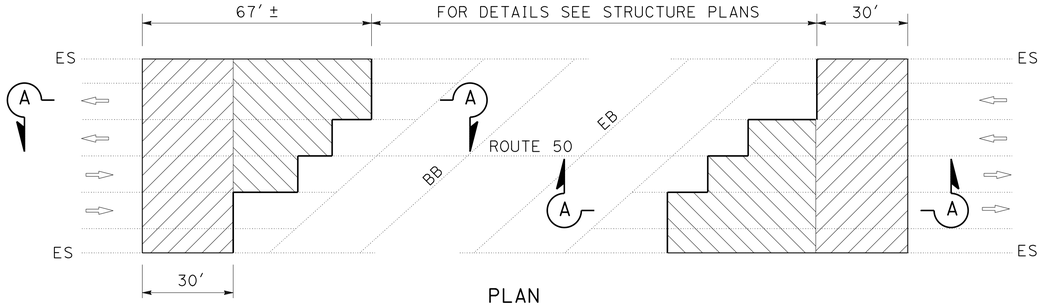
** SECTION C-C APPLIES ONLY TO Loc 11.



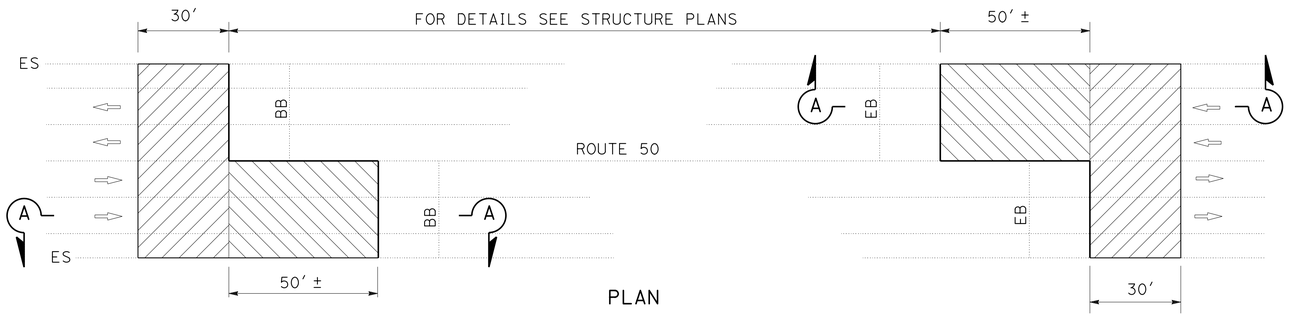
PLAN (Typ)
Loc 4, 5, 6, 11 & 14



PLAN
LOCATION 1



PLAN
LOCATION 2

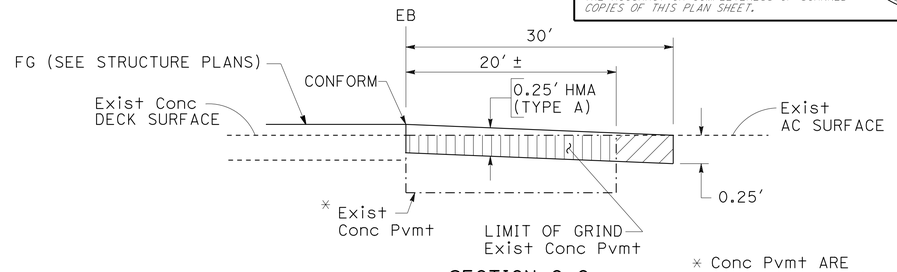


PLAN
LOCATION 3

PAVEMENT CONFORM AT BRIDGE APPROACH/DEPARTURE

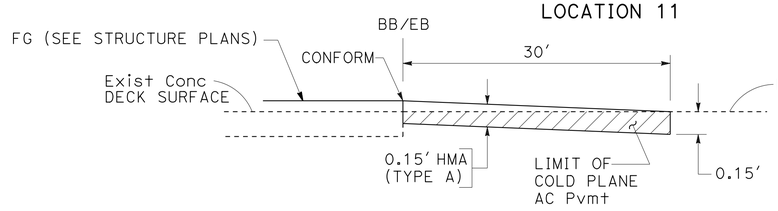
LEGEND:

- COLD PLANE AC Pvmt (DEPTH Var)
- COLD PLANE AC Pvmt (DEPTH 0.08′±)
- GRIND Exist Conc Pvmt
- DIRECTION OF TRAFFIC

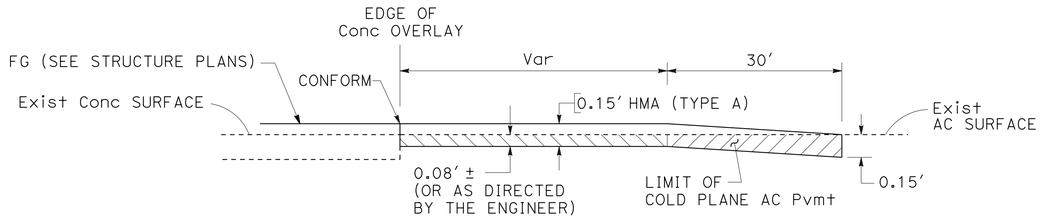


SECTION C-C
LOCATION 11

* Conc Pvmt ARE PRESENT ON ROUTE 51 IN LANE No. 1, 2 AND 3



SECTION B-B (Typ)
Loc 4, 5, 6, 11 & 14



SECTION A-A (Typ)
Loc 1, 2 & 3

ROADWAY QUANTITIES

LOCATION No.	BRIDGE No.	STRUCTURE NAME	HMA (TYPE A)	COLD PLANE ASPHALT CONCRETE PAVEMENT	GRIND Exist CONCRETE PAVEMENT
			TON	SQYD	SQYD
1	25-0008	SOUTH FORK AMERICAN RIVER	82	790	
2	25-0098	SOUTH FORK AMERICAN RIVER	70	670	
3	25-0099	SOUTH FORK AMERICAN RIVER	60	580	
4	25-0012	UPPER TRUCKEE RIVER	34	330	
5	25-0010	UPPER TRUCKEE RIVER	54	520	
6	25-0013	TROUT CREEK	54	520	
11	24-0115L	ARDEN WAY UC	85	600	125
14	24-0124K	AUBURN BLVD RAMP OC	16	150	
		TOTAL	455	4,160	125

CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES

NO SCALE

C-1

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY: SHAHRAM RAISI | CHECKED BY
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

LAST REVISION DATE PLOTTED => 27-FEB-2013
00-00-00 TIME PLOTTED => 17:10

BORDER LAST REVISED 7/1/2010 | USERNAME => s125660 | DGN FILE => 0312000008ga001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03120000081

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

LOCATION NUMBER	COUNTY AND ROUTE	SIGN LOCATION DESCRIPTION	FACING TRAFFIC NB	SB	EB	WB	SIGN CODE FEDERAL	CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
1	ED-50	1000'± BEFORE BEGINNING OF BRIDGE			1		W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		1000'± BEFORE BEGINNING OF BRIDGE				1	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		1000'± AFTER END OF BRIDGE			1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		1000'± AFTER END OF BRIDGE				1	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		ICE HOUSE ROAD		1			W20-1	C23	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
		ICE HOUSE ROAD	1				G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
2	ED-50	1300'± BEFORE BEGINNING OF BRIDGE			1		W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		1000'± BEFORE BEGINNING OF BRIDGE				1	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
3	ED-50	1000'± AFTER END OF BRIDGE			1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		1000'± AFTER END OF BRIDGE				1	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
4	ED-50	1000'± BEFORE BEGINNING OF BRIDGE			1		W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		1000'± BEFORE BEGINNING OF BRIDGE				1	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		1000'± AFTER END OF BRIDGE			1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		1000'± AFTER END OF BRIDGE				1	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		UPPER TRUCKEE ROAD NORTH		1			W20-1	C23	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
		UPPER TRUCKEE ROAD NORTH	1				G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		UPPER TRUCKEE ROAD SOUTH	1				W20-1	C23	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
		UPPER TRUCKEE ROAD SOUTH		1			G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		CIRUGU STREET	1				W20-1	C23	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
		CIRUGU STREET		1			G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		POMO STREET				1	W20-1	C23	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
		POMO STREET			1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
5	ED-50	550'± BEFORE BEGINNING OF BRIDGE			1		W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		500'± BEFORE BEGINNING OF BRIDGE				1	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		320'± AFTER END OF BRIDGE			1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		500'± AFTER END OF BRIDGE				1	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		RIVER DRIVE	1				W20-1	C23	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
		RIVER DRIVE		1			G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
6	ED-50	600'± BEFORE BEGINNING OF BRIDGE			1		W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		500'± BEFORE BEGINNING OF BRIDGE				1	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		300'± AFTER END OF BRIDGE			1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		600'± AFTER END OF BRIDGE				1	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		BLUE LAKE AVENUE	1				W20-1	C23	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
		BLUE LAKE AVENUE		1			G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
7 AND 8	Yol-50	1000'± BEFORE BEGINNING OF BRIDGE			1		W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	1
		450'± BEFORE BEGINNING OF BRIDGE				1		C14	48" x 24"	END ROAD WORK	SSBM - SEE NOTE 2	1
		900'± AFTER END OF BRIDGE			1		G20-2	C14	36" x 18"	END ROAD WORK	SSBM - SEE NOTE 3	1
		1800'± AFTER END OF BRIDGE				1	W20-1	C23	48" x 48"	ROAD WORK AHEAD	SSBM - SEE NOTE 4	2
		WB EXIT RAMP TO JEFFERSON Blvd				1	G20-2	C14	36" x 18"	END ROAD WORK	SSBM - SEE NOTE 5	1

NOTES:

1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
2. INSTALL PANEL ON EXISTING OH SIGN POST (AS-116) FWBT.
3. INSTALL PANEL ON EXISTING LIGHTING STANDARD (B317) FEBT.
4. INSTALL PANELS ON EXISTING OH SIGN POSTS (BS-16) FWBT.
5. INSTALL PANEL ON EXISTING LIGHTING STANDARD (B327) FWBT.
6. INSTALL PANEL ON EXISTING OH SIGN POST (AS-165) FSBT.

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50, 51	Var	3	31

Kris M. Albers — REGISTERED CIVIL ENGINEER — 1-17-13 DATE

2-25-13 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KRIS M. ALBERS — No. 49986 — 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.

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY: JACK KEMMERLY

CHECKED BY: KRIS ALBER

FUNCTIONAL SUPERVISOR: ARSHAD IQBAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

TRAFFIC

CONSTRUCTION AREA SIGNS

CS-1

LAST REVISION: DATE PLOTTED => 27-FEB-2013; TIME PLOTTED => 17:10

8-30-12

BORDER LAST REVISED 7/2/2010 | USERNAME => s125660 | DGN FILE => 03120000081a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0390 | PROJECT NUMBER & PHASE 03120000081

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50, 51	Var	4	31

Kris M. Albers — REGISTERED CIVIL ENGINEER — 1-17-13 DATE

2-25-13 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KRIS M. ALBERS No. 49986 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (CONTINUED)

LOCATION NUMBER	COUNTY AND ROUTE	SIGN LOCATION					SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
		DESCRIPTION	FACING TRAFFIC				FEDERAL	CALIFORNIA				
			NB	SB	EB	WB						
9	Sac-51	850'± BEFORE BEGINNING OF BRIDGE	1				W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	1
		500'± BEFORE BEGINNING OF BRIDGE		1				C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	1
		700'± AFTER END OF BRIDGE	1					C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	1
		1000'± AFTER END OF BRIDGE		1			W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	1
		NB EXIT RAMP TO EXPOSITION Blvd			1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		SB ENTRANCE RAMP FROM EXPOSITION Blvd			1		W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
10	Sac-51	500'± BEFORE BEGINNING OF BRIDGE				1	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	1
		300'± BEFORE BEGINNING OF BRIDGE			1			C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	1
		400'± AFTER END OF BRIDGE				1		C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	1
		400'± AFTER END OF BRIDGE			1		W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		NB EXIT RAMP TO WB EXPOSITION Blvd	1				W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		SB ENTRANCE RAMP FROM EXPOSITION Blvd		1			G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		SB LOOP ENTRANCE RAMP FROM EXPOSITION Blvd		1			G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
11	Sac-51	575'± BEFORE BEGINNING OF BRIDGE		1				C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	1
		575'± BEFORE BEGINNING OF BRIDGE		1				C14	48" x 24"	END ROAD WORK	SSBM - SEE NOTE 6	1
		1400'± AFTER END OF BRIDGE		1			W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	2
		SB LOOP ENTRANCE RAMP FROM ARDEN WAY		1			G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		SB ENTRANCE RAMP FROM WB ARDEN WAY				1	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		SB EXIT RAMP TO ARDEN WAY		1			G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
12	Sac-51	700'± BEFORE BEGINNING OF BRIDGE			1		W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		500'± BEFORE BEGINNING OF BRIDGE				1	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		500'± AFTER END OF BRIDGE			1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		600'± AFTER END OF BRIDGE				1	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		NB EXIT RAMP TO EL CAMINO AVENUE	1				W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		NB LOOP ENTRANCE RAMP FROM EL CAMINO AVENUE	1				G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		NB ENTRANCE RAMP FROM EL CAMINO AVENUE	1				G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		SB EXIT RAMP TO EL CAMINO AVENUE		1			W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		SB LOOP ENTRANCE RAMP FROM EL CAMINO AVENUE		1			G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		SB ENTRANCE RAMP FROM EL CAMINO AVENUE		1			G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1

REVISED BY | DATE REVISED

JACK KEMMERLY | KRIS ALBERS

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: ARSHAD IQBAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

TRAFFIC

Caltrans®

CONSTRUCTION AREA SIGNS

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION 8-30-12 | DATE PLOTTED => 27-FEB-2013 | TIME PLOTTED => 17:10

BORDER LAST REVISED 7/2/2010 | USERNAME => s125660 | DGN FILE => 0312000008Ia002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0390 | PROJECT NUMBER & PHASE 03120000081

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50, 51	Var	5	31

Kris M. Albers 1-17-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (CONTINUED)

LOCATION NUMBER	COUNTY AND ROUTE	SIGN LOCATION						SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
		DESCRIPTION	FACING TRAFFIC					FEDERAL	CALIFORNIA				
			NB	SB	EB	WB							
13	Sac-51	500'± BEFORE BEGINNING OF BRIDGE				1		W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		500'± BEFORE BEGINNING OF BRIDGE			1			G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		400'± AFTER END OF BRIDGE				1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		400'± AFTER END OF BRIDGE			1			W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		ON AUBURN Blvd 250'± SOUTH OF THE FULTON AVENUE CROSSWALK	1					W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		ON AUBURN Blvd 200'± SOUTH OF THE FULTON AVENUE CROSSWALK		1				G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		ON AUBURN Blvd 200'± NORTH OF THE FULTON AVENUE LIMIT LINE	1					G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		ON AUBURN Blvd 250'± NORTH OF THE FULTON AVENUE LIMIT LINE		1				W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		NB ENTRANCE RAMP FROM FULTON AVENUE	1					G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
		SB EXIT RAMP TO FULTON AVENUE		1				W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		SB ENTRANCE RAMP FROM FULTON AVENUE	1					G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
14	Sac-51	400'± BEFORE BEGINNING OF BRIDGE		1					C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	1
		400'± AFTER END OF BRIDGE		1				W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
15	Sac-50	2700'± BEFORE BEGINNING OF BRIDGE			1			W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	1
		900'± BEFORE BEGINNING OF BRIDGE				1			C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	1
		500'± AFTER END OF BRIDGE			1				C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	1
		1000'± AFTER END OF BRIDGE				1		W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	1
		EB LOOP ENTRANCE RAMP FROM SUNRISE Blvd			1			W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		EB ENTRANCE RAMP FROM SUNRISE Blvd			1			W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
		WB EXIT RAMP TO SUNRISE Blvd				1		G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	1

CONSTRUCTION AREA SIGNS

CS-3

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

REVISED BY | JACK KEMMERLY
DATE REVISED | KRIS ALBERS
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR | ARSHAD IQBAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION | DATE PLOTTED => 27-FEB-2013
8-30-12 | TIME PLOTTED => 17:10

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 03120000081a003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0390
PROJECT NUMBER & PHASE 03120000081

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50, 51	Var	6	31

Kris M. Albers 1-17-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
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.

PAVEMENT DELINEATION QUANTITIES

LOCATION NUMBER	COUNTY AND ROUTE	REMOVE PAINTED TRAFFIC STRIPE						REMOVE PAINTED PAVEMENT MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPE						REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC PAVEMENT MARKING
		LANELINE	RIGHT EDGELINE	CHANNELIZING LINE	TWO-WAY LEFT TURN LANE	CENTERLINE	MEDIAN ISLAND	TYPE VI ARROW	LANELINE	RIGHT EDGELINE	CHANNELIZING LINE	EXIT RAMP GORE STRIPING	ENTRANCE RAMP GORE STRIPING	LANE DROP STRIPING	LEFT EDGELINE	CHEVRON
		LF	LF	LF	LF	LF	LF	SQFT	LF	LF	LF	LF	LF	LF	LF	SQFT
1	ED-50	70	750	980		760										
2	ED-50	214	840			840										
3	ED-50	305	1,220				2,640	42								
5	ED-50	76	260		325											
6	ED-50	47	160		200											
9	Sac-51								42	80	80			8	80	
11	Sac-51								110	105		210	210		105	13
SUBTOTAL		712	3,230	980	525	1,600	2,640		152	185	80	210	210	8		
TOTAL		9,687						42	845						185	13

PAVEMENT DELINEATION DETAILS AND QUANTITIES

PDQ-1

CALCULATED-DESIGNED BY
CHECKED BY
JACK KEMMERLY
KRIS ALBERS
REVISED BY
DATE REVISED
FUNCTIONAL SUPERVISOR
ARSHAD IQBAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC

LAST REVISION 1-8-13
DATE PLOTTED => 27-FEB-2013
TIME PLOTTED => 17:10

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0312000008nc001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0390
PROJECT NUMBER & PHASE 03120000081

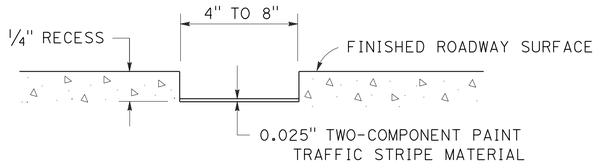
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50, 51	Var	7	31

Kris M. Albers 1-17-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KRIS M. ALBERS No. 49986 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.



DETAIL FOR RECESSED
TWO-COMPONENT PAINT TRAFFIC STRIPE

NO SCALE

PAVEMENT DELINEATION QUANTITIES (CONTINUED)

LOCATION NUMBER	COUNTY AND ROUTE	4" TWO-COMPONENT PAINT TRAFFIC STRIPE (RECESSED)			4" TWO-COMPONENT PAINT TRAFFIC STRIPE (RECESSED) (BROKEN 17-7)	4" TWO-COMPONENT PAINT TRAFFIC STRIPE (RECESSED) (BROKEN 36-12)	4" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12)	4" TWO-COMPONENT PAINT TRAFFIC STRIPE			8" TWO-COMPONENT PAINT TRAFFIC STRIPE	TWO-COMPONENT PAINT PAVEMENT MARKING		4" THERMOPLASTIC TRAFFIC STRIPE (EWNV)				4" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 36-12)	4" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 17-7)	8" THERMOPLASTIC TRAFFIC STRIPE (EWNV)				8" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 12-3)	PAVEMENT MARKER (RETROREFLECTIVE)			THERMOPLASTIC PAVEMENT MARKING (EWNV)	
		DETAIL 21	DETAIL 31	DETAIL 39	DETAIL 8	DETAIL 31	DETAIL 11	DETAIL 21	DETAIL 27B	DETAIL 28	DETAIL 38A	TYPE III ARROW	TYPE VI ARROW	DETAIL 22	DETAIL 25	DETAIL 25A	DETAIL 27B	DETAIL 12	DETAIL 9	DETAIL 36	DETAIL 36B	DETAIL 38	DETAIL 38B	DETAIL 37	TYPE D	TYPE G	TYPE H	1'-0" CHEVRON	TYPE VII ARROW
		LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	SQFT	SQFT
1	ED-50						309	956	956		647	42																		
2	ED-50						1,024	1,024	1,024																					
3	ED-50						1,434		1,434	2,868			42																	
4	ED-50	640		320																										
5	ED-50		380		380	380			380																					
6	ED-50		280		280	280			280																					
7	Yol-50														446		446	892								20	10			
8	Yol-50														438		438	876								20	10			
9	Sac-51														80		80	120	40				40	40		14	3			
10	Sac-51																	440				220				20			27	
11	Sac-51														165		165	495	165	330	330					45	4	13		
12	Sac-51													560			560		560						25	13				
13	Sac-51													234					117						12	3				
14	Sac-51															204	204										10			
15	Sac-50														252		252	630	122	100			127			36	6			
SUBTOTAL		640	660	320				1,980	4,074	2,868		42	42	794	1,381	204	2,145			430	330	220	167		37	171	43	13	27	
TOTAL		1,620			660	660	2,767	8,922			647	84		4,524				3,453	1,004	1,147				40	251			40		

NOTE:

EWNV = ENHANCED WET NIGHT VISIBILITY.

PAVEMENT DELINEATION QUANTITIES

PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

FUNCTIONAL SUPERVISOR: ARSHAD IQBAL
CALCULATED-DESIGNED BY: JACK KEMMERLY
CHECKED BY: KRIS ALBERS
REVISED BY
DATE REVISED

LAST REVISION
DATE PLOTTED => 27-FEB-2013
TIME PLOTTED => 17:10
1-8-13

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0312000008nc002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0390
PROJECT NUMBER & PHASE 03120000081

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac, Yol	50, 51	Var	8	31

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
REGISTERED PROFESSIONAL ENGINEER
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.

REVISED BY | DATE REVISED

CALCULATED- | DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

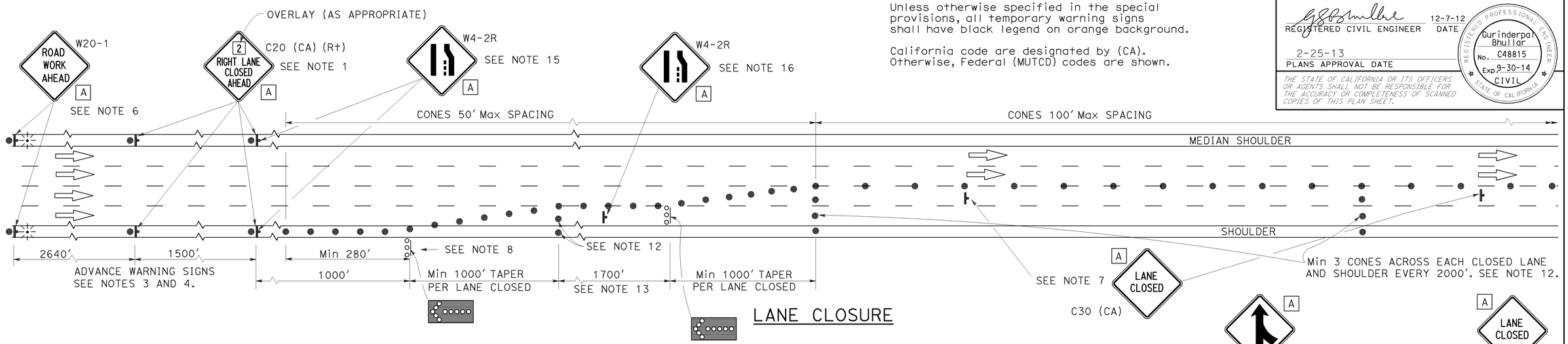
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

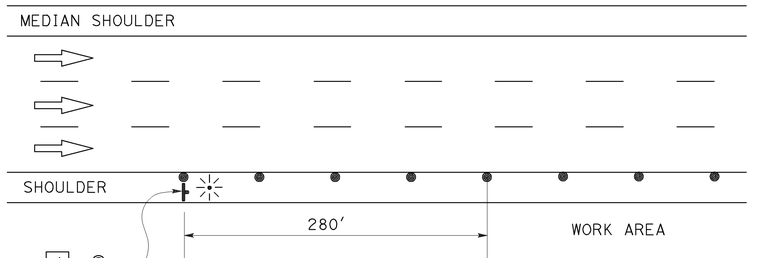
NOTES:

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

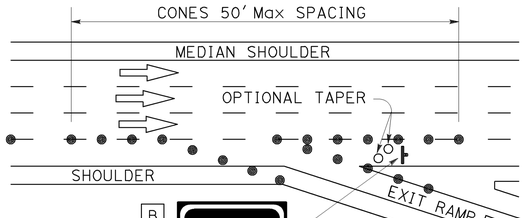
California code are designated by (CA).
Otherwise, Federal (MUTCD) codes are shown.



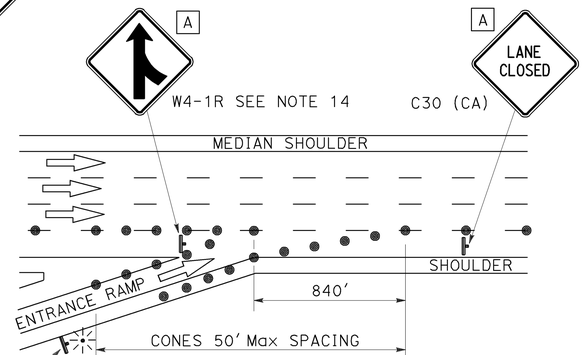
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT EXIT RAMP



LANE CLOSURE AT ENTRANCE RAMP

NOTES:

1. Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. 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.
5. 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.
6. 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.
7. Place a C30 (CA) sign every 2000' throughout length of lane closure.
8. 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.
9. 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.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. 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.
13. 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.
14. Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
15. 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.
16. 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" × 48"
B	54" × 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

LAST REVISION | DATE PLOTTED => 10-DEC-2012
00-00-00 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	9	31

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
REGISTERED PROFESSIONAL ENGINEER
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.

TYPICAL LANE CLOSURE

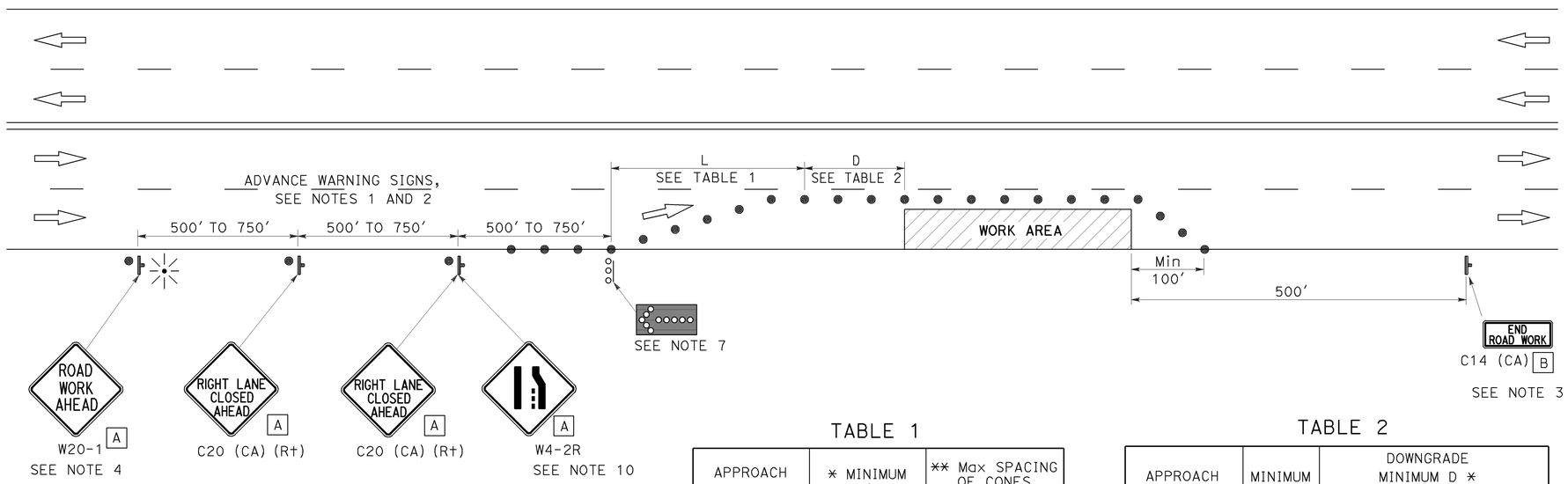


TABLE 1

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 AND BELOW	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
Over 50	SEE NOTE 9	

* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12′.
** SEE NOTE 8.

TABLE 2

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
OVER 50	SEE NOTE 9			

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

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.

LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A 36" x 36"

B 36" x 18"

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300′ spacing and placed closer in urban areas.
2. Each advance warning sign 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.
3. 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.
4. 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.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow sign shall be either Type I or Type II.
8. The maximum spacing between cones along a tangent shall be 50′ and along a taper shall be approximately as shown in Table 1.
9. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
10. 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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-2

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => tcs11.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03120000081

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	10	31

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

TABLE 1

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 and below	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
OVER 50	SEE NOTE 11	

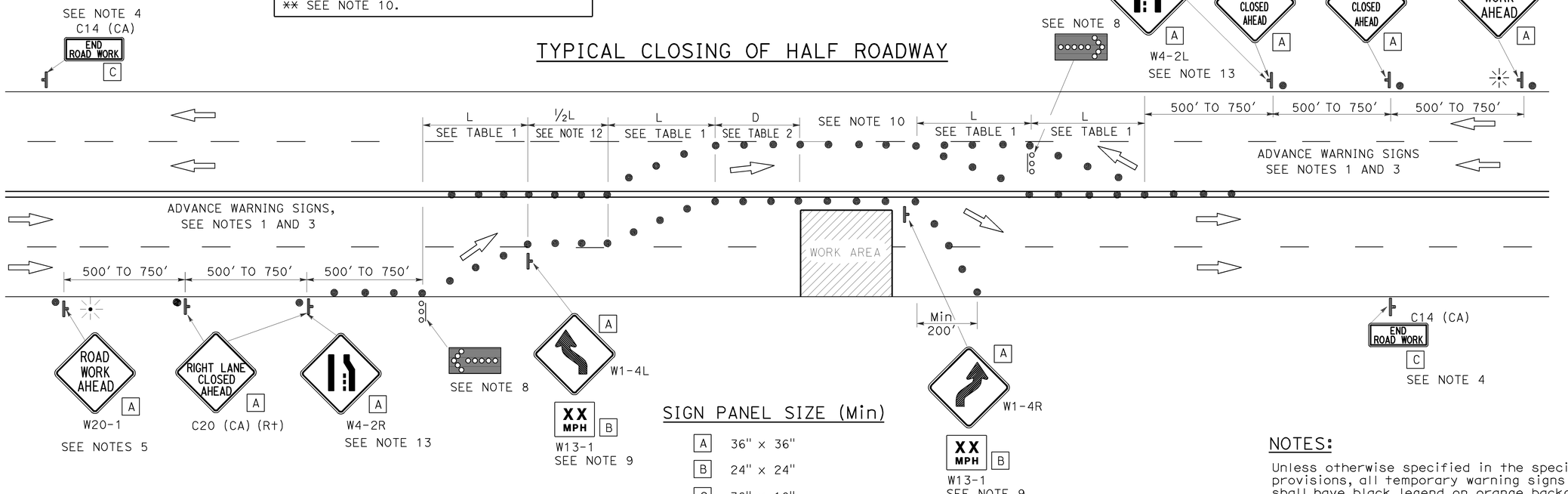
* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
** SEE NOTE 10.

TABLE 2

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
OVER 50	SEE NOTE 11			

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

TYPICAL CLOSING OF HALF ROADWAY



SIGN PANEL SIZE (Min)

- A — 36" x 36"
- B — 24" x 24"
- C — 36" x 18"

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:

1. Where Approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
3. 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.
4. 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.
5. 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.
6. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
7. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
8. Flashing arrow signs shall be either Type I or Type II.
9. Advisory speed will be determined by the Engineer. The W13-1 Sign will not be required when advisory speed is more than the posted or maximum speed limit.
10. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
11. For approach speeds over 50 mph, use the "Traffic Control System For Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
12. Unless otherwise specified in the special provisions, the (½ L) shown between the two (L) lane closure tapers shall be used.
13. When specified in the special provisions, a W4-2 "Lane Ends" symbol sign is to be used in place of the C20 (CA) "RIGHT (LEFT) LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-3

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 10-DEC-2012
00-00-00 TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	11	31

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

Gurinderpal Bhullar No. C48815 Exp.9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-25-13
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:

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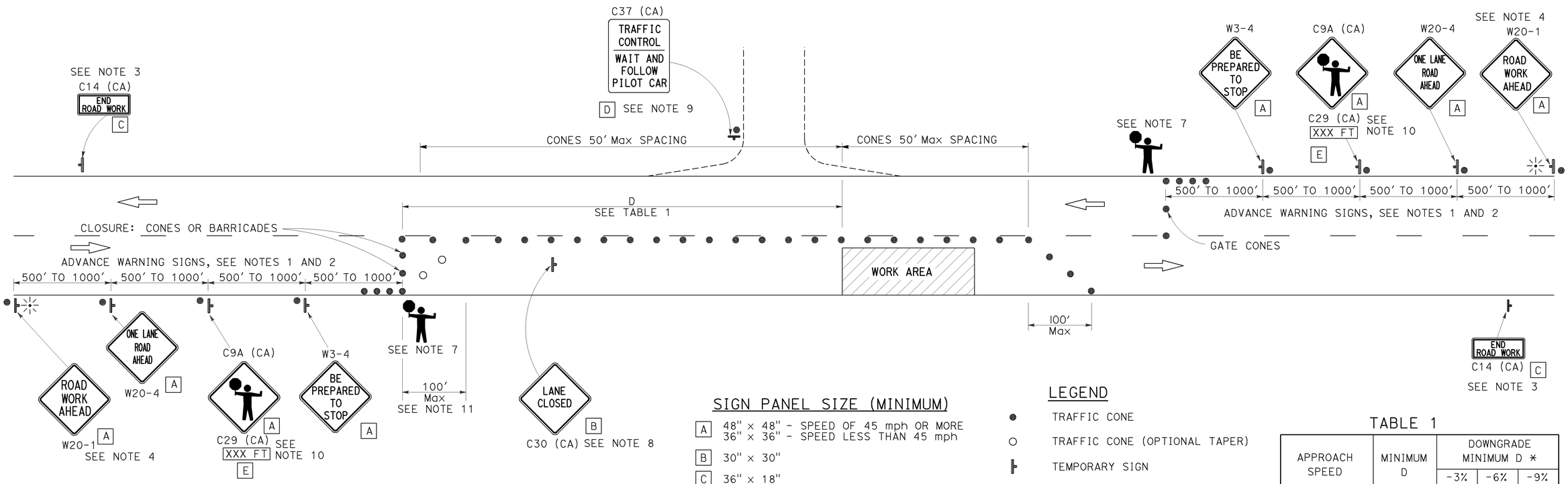
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



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"

LEGEND

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

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.

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
2. 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.
3. 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.
4. 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.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. 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.
8. 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.
9. 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.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

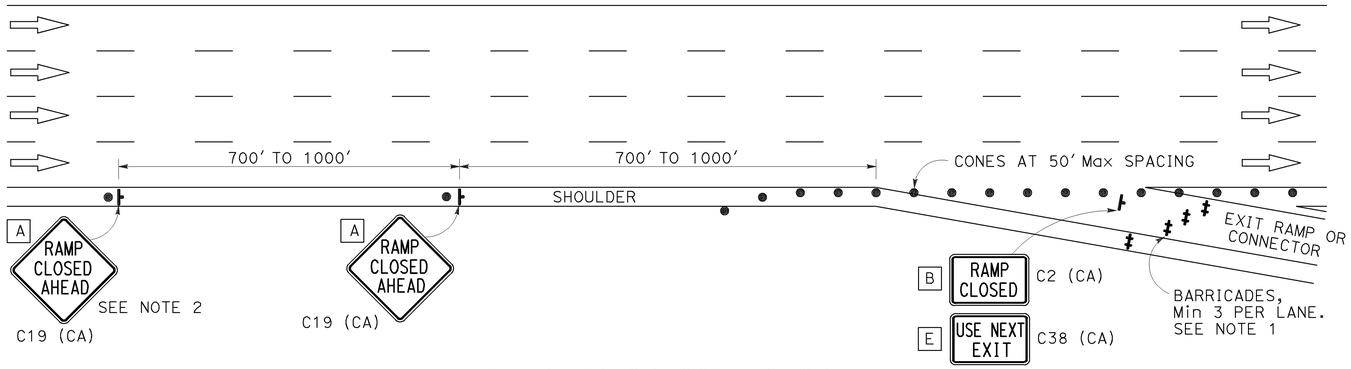
TCS-4

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

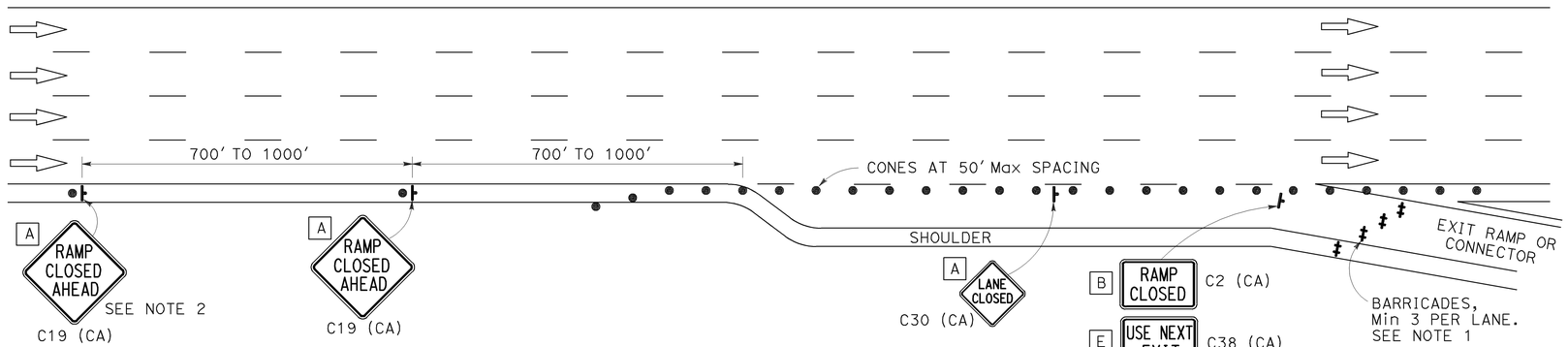
LAST REVISION | DATE PLOTTED => 10-DEC-2012
00-00-00 | TIME PLOTTED => 09:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => tcs13.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03120000081

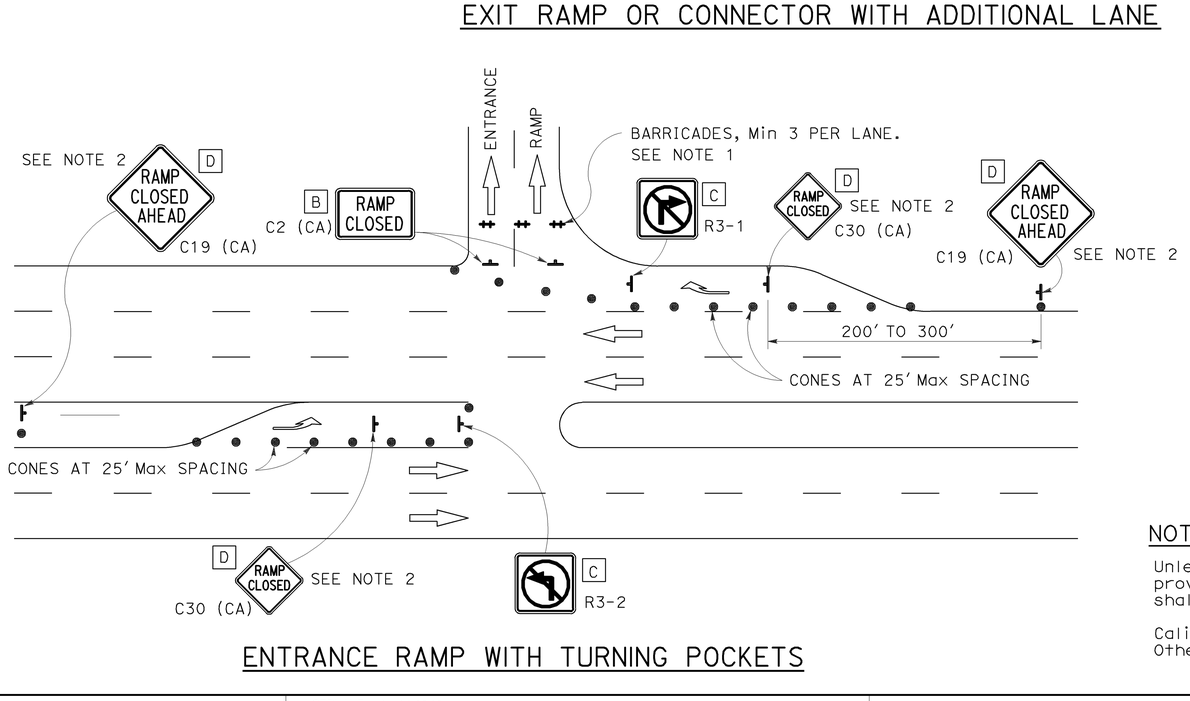
TYPICAL RAMP CLOSURES



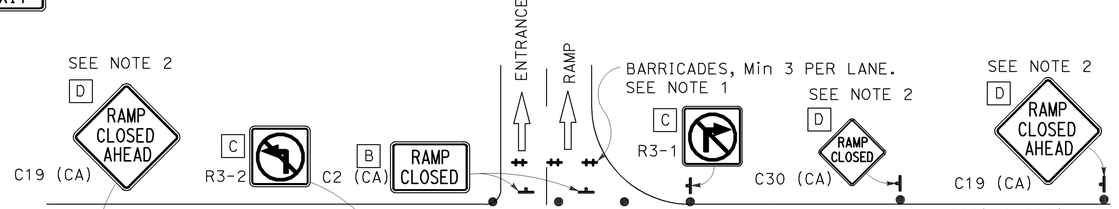
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE
  36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- BARRICADES

NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19 (CA) "RAMP CLOSED AHEAD" sign 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.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" sign in the gore area shall be covered during ramp closures.

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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	12	31

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Gurinderpal Bhullar — No. C48815 — Exp. 9-30-14 — CIVIL — STATE OF CALIFORNIA

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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-5

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION | DATE PLOTTED => 10-DEC-2012 | 00-00-00 | TIME PLOTTED => 09:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => tcs14.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03120000081

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	13	31

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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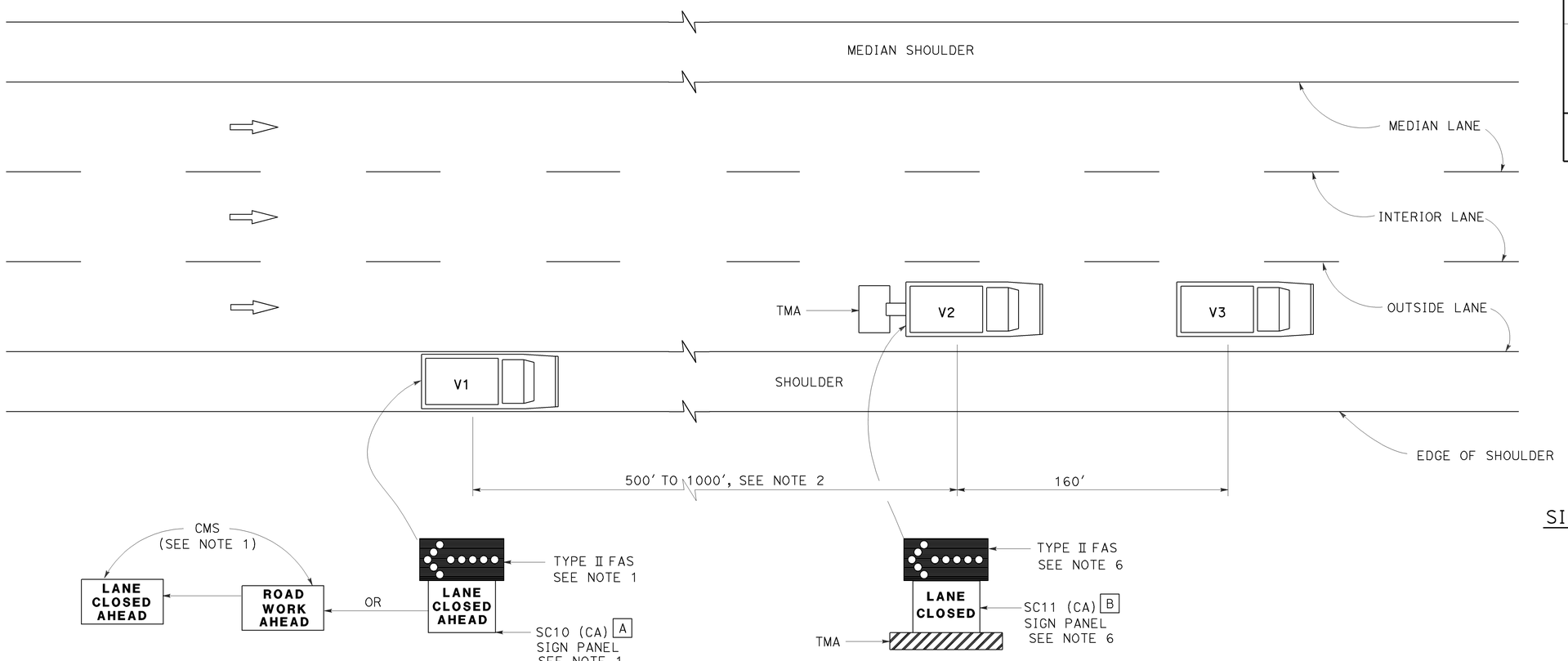

SIGN PANEL SIZE (Min)

A 66" x 36"

B 54" x 42"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS)
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

NOTES:

1. Either a changeable message sign or a SC10 (CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1 and used with the SC10 (CA) sign panel. A Type II flashing arrow sign will not be required with the changeable message sign provided the flashing arrow sign symbol is displayed on the changeable message sign board. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "LANE CLOSED AHEAD" message and then the flashing arrow sign symbol. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500′ should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500′.
5. Vehicle-mounted sign panels shall be Type III, IV, VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
9. Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required, and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS (OUTSIDE AND MEDIAN LANES)

NO SCALE

TCS-6

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Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	14	31

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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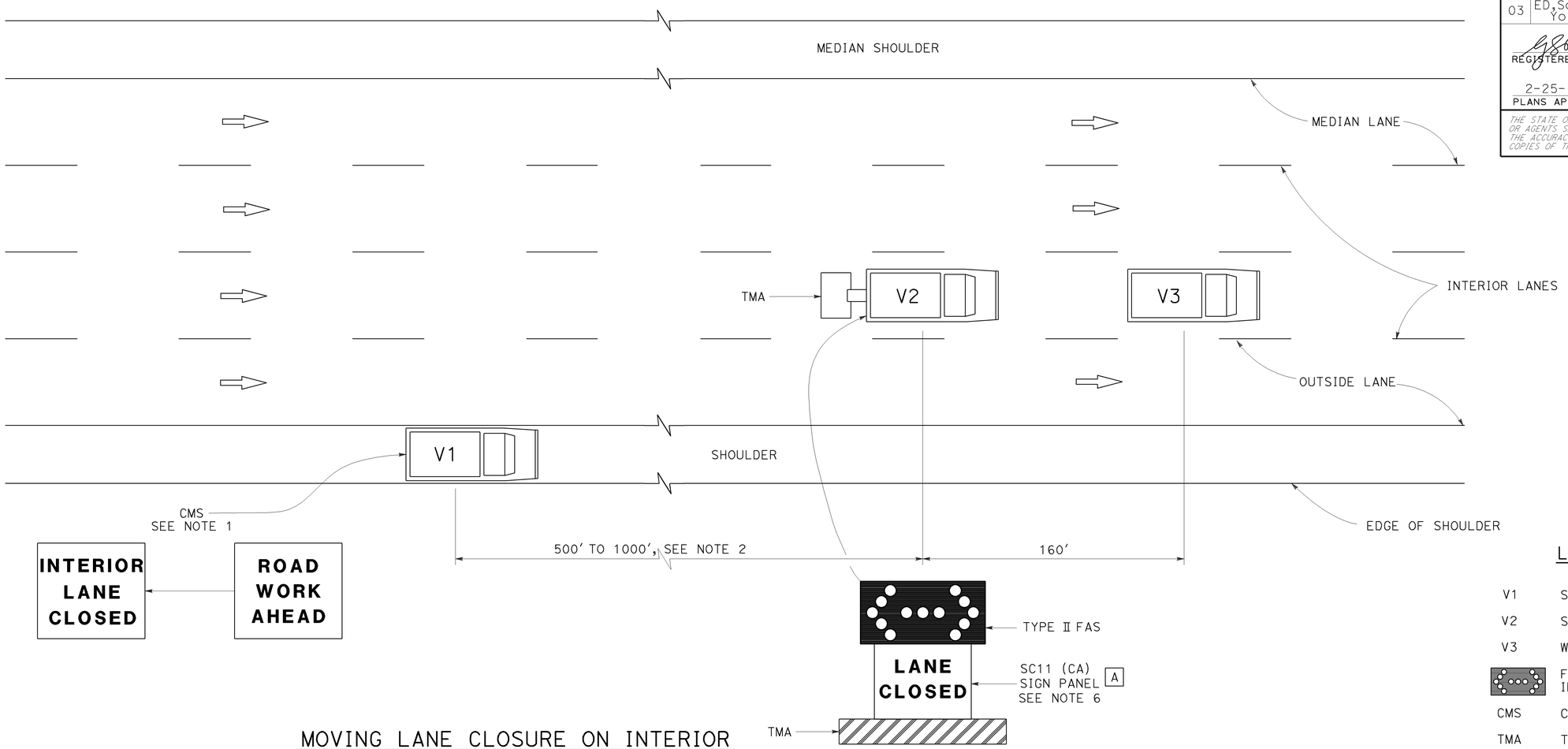

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS) IN FLASHING DOUBLE ARROW MODE
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500′ should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500′.
5. Vehicle-mounted sign panels shall be Type III, IV, VII, VIII, or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required, and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS (INTERIOR LANES)

NO SCALE

TCS-7

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Caltrans

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00-00-00 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	15	31

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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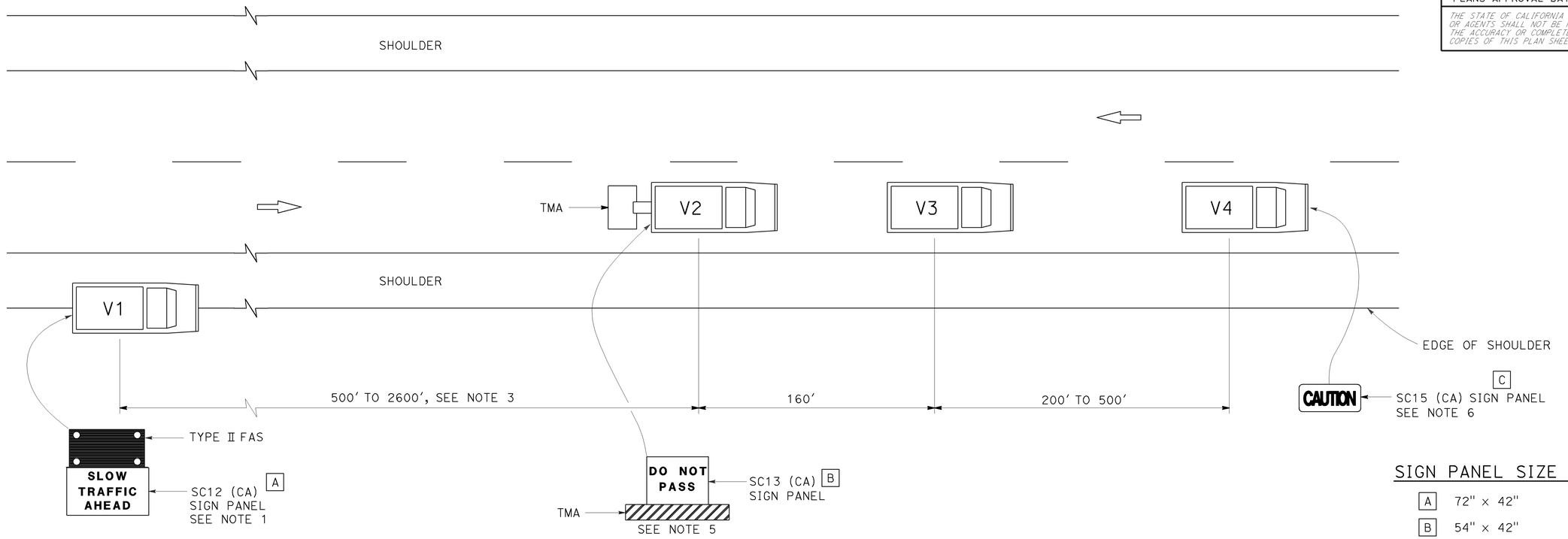

SIGN PANEL SIZE (Min)

A	72" × 42"
B	54" × 42"
C	54" × 24"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
V4	SIGN VEHICLE
TMA	TRUCK-MOUNTED ATTENUATOR
	FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE

NOTES:

1. Either a changeable message sign or a SC12 (CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign may be used with the SC12 (CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall be Type III, IV VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Gross Vehicle Weight of shadow vehicle shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2′ or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

TCS-8

REVISED BY | DATE REVISED
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45
00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	16	31

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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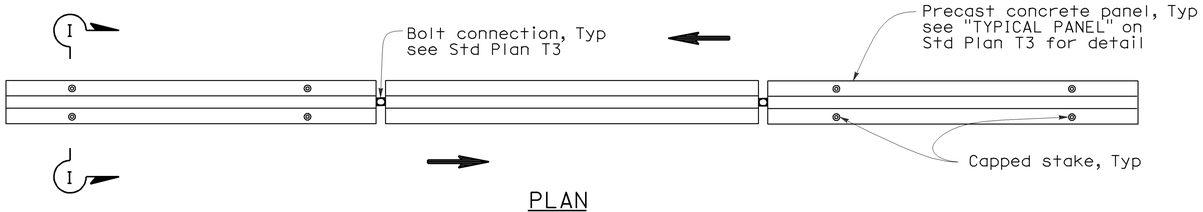
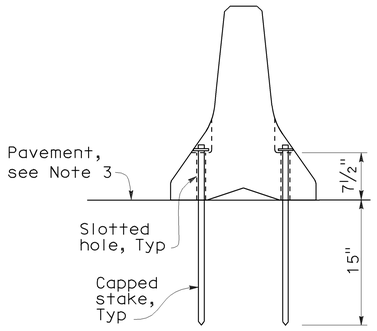
To accompany plans dated 2-25-13



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

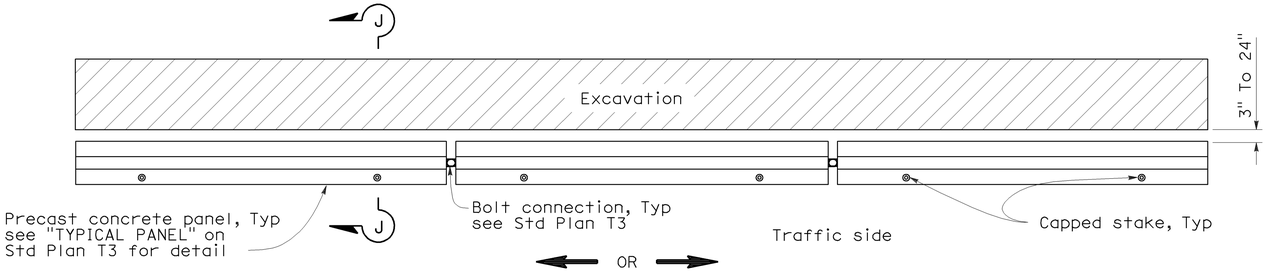
See Note 1



SECTION I-I

NOTES:

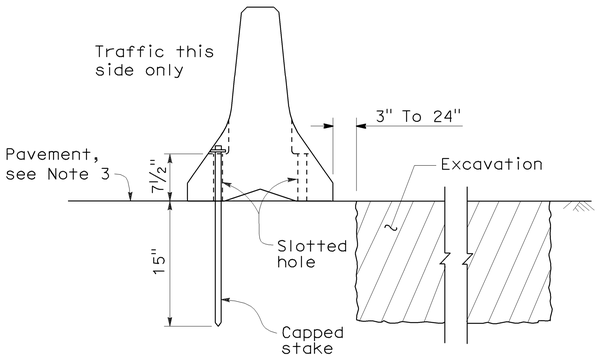
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by ⟹.



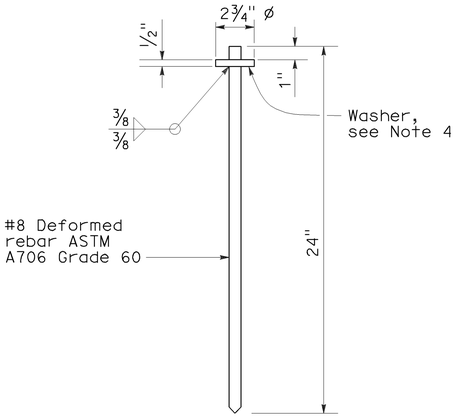
PLAN

RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION

See Note 2



SECTION J-J



CAPPED STAKE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY RAILING (TYPE K)

NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A

8-31-10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	17	31

REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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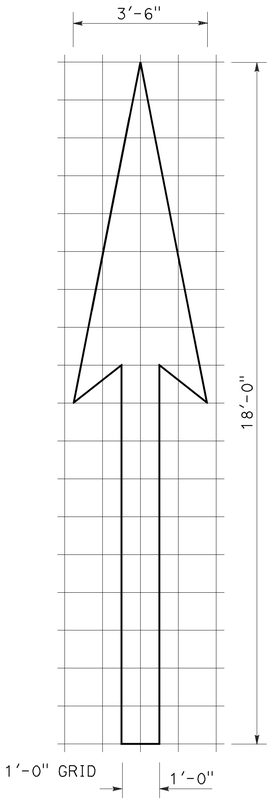
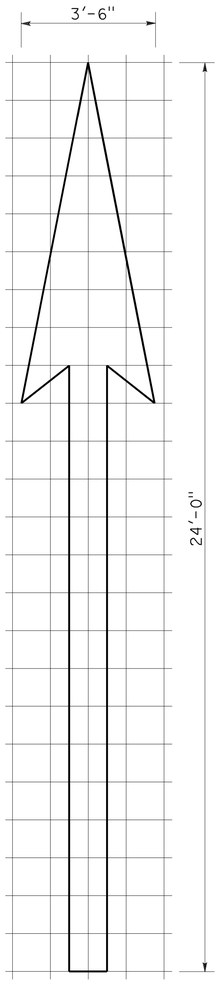


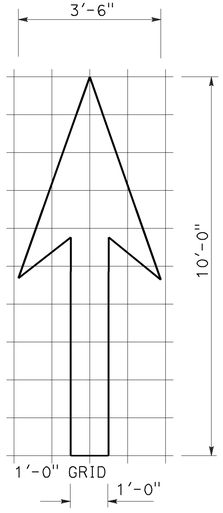
A=25 sq ft

TYPE I 18'-0" ARROW



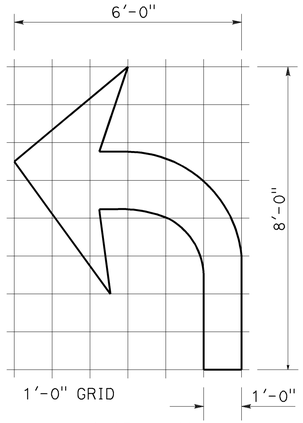
A=31 sq ft

TYPE I 24'-0" ARROW



A=14 sq ft

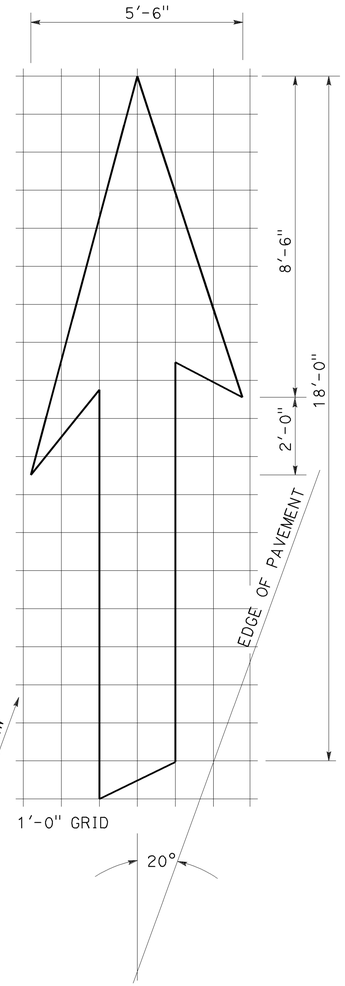
TYPE I 10'-0" ARROW



A=15 sq ft

TYPE IV (L) ARROW

(FOR TYPE IV (R) ARROW, USE MIRROR IMAGE)



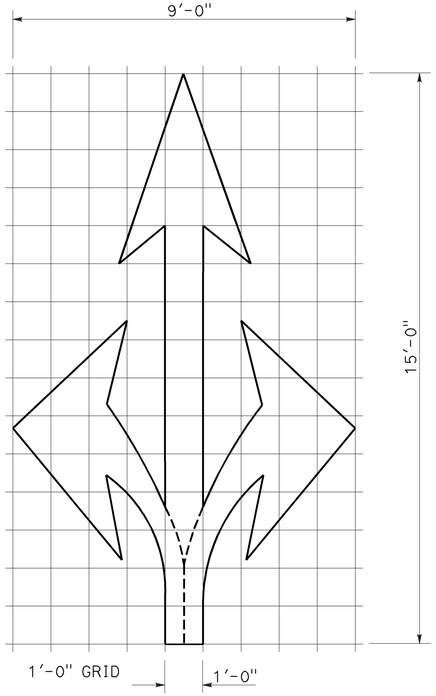
A=42 sq ft

TYPE VI ARROW

RIGHT LANE DROP ARROW
(FOR LEFT LANE, USE MIRROR IMAGE)

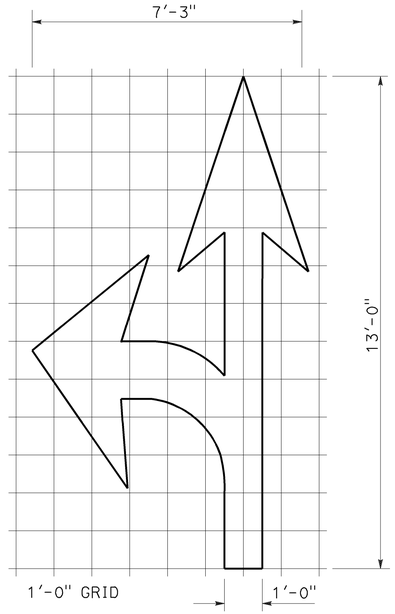
A=3.5 sq ft

BIKE LANE ARROW



A=36 sq ft

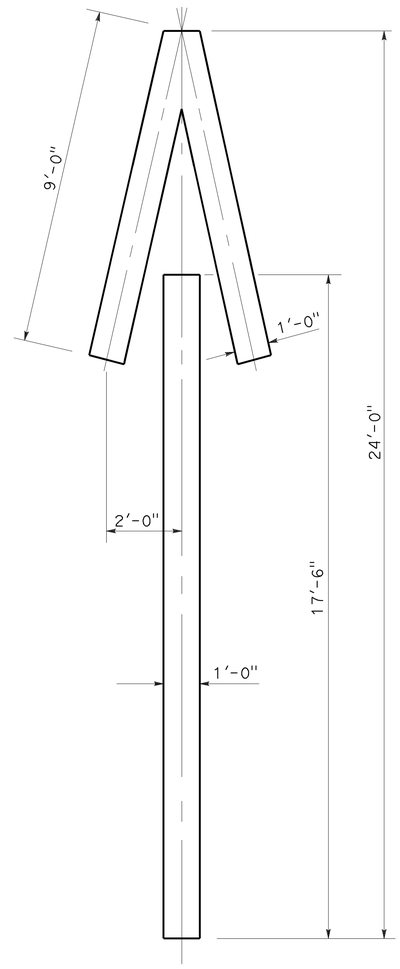
TYPE VIII ARROW



A=27 sq ft

TYPE VII (L) ARROW

(FOR TYPE VII (R) ARROW, USE MIRROR IMAGE)



A=33 sq ft

TYPE V ARROW

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A
DATED MAY 1, 2006 - PAGE 9 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24A

2006 REVISED STANDARD PLAN RSP A24A

3-14-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	18	31

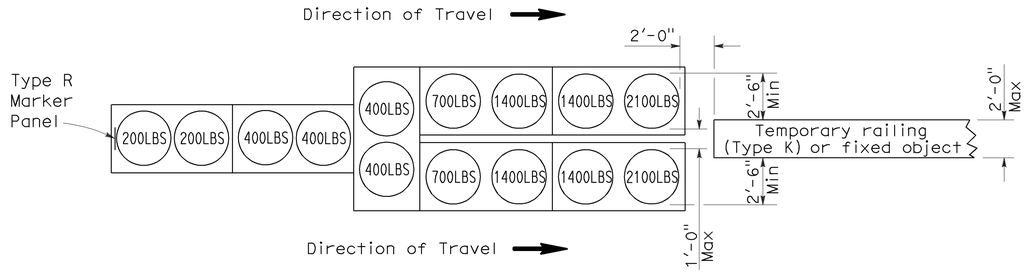
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

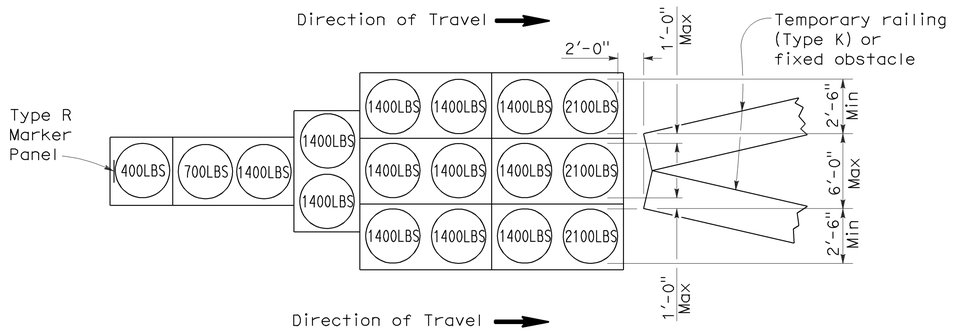
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-25-13



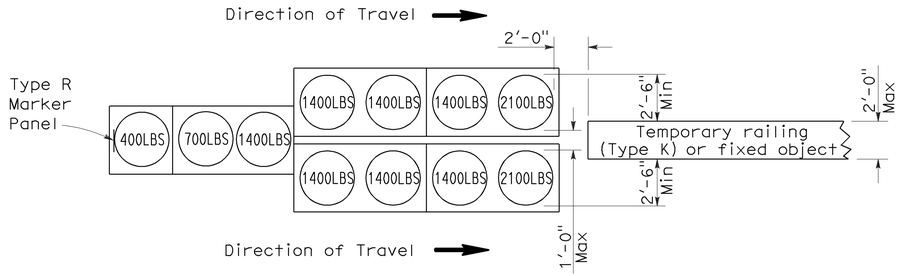
ARRAY 'TU14'

Approach speed 45 mph or more



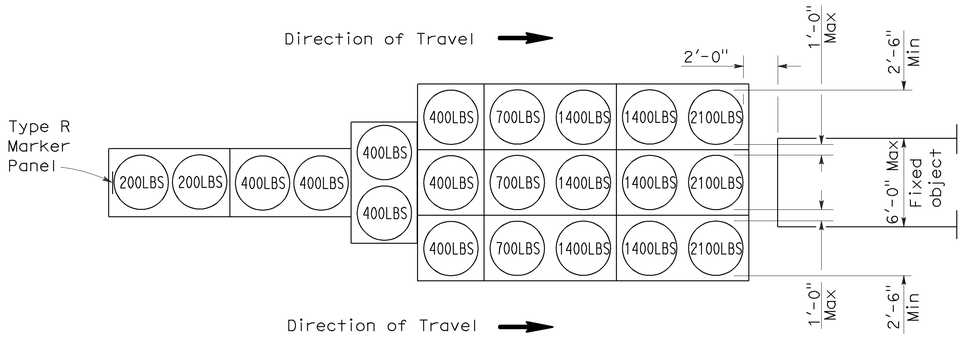
ARRAY 'TU17'

Approach speed less than 45 mph



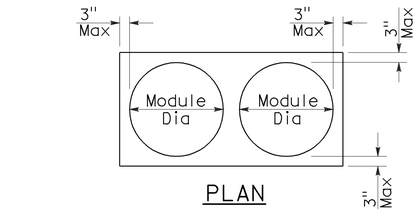
ARRAY 'TU11'

Approach speed less than 45 mph

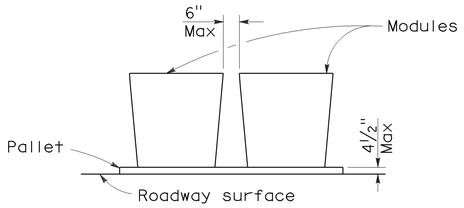


ARRAY 'TU21'

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

2006 REVISED STANDARD PLAN RSP T1A

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	19	31

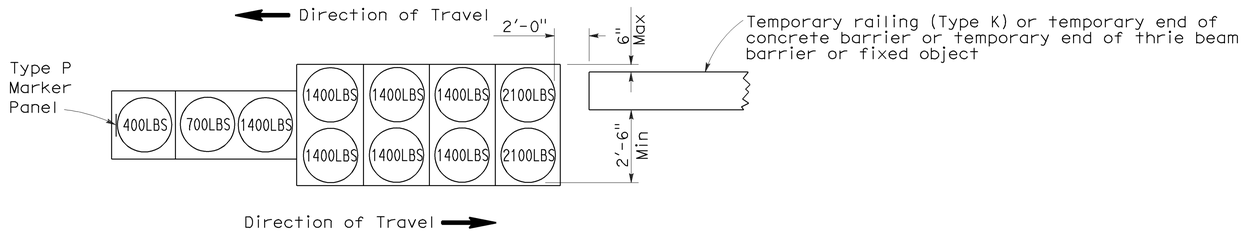
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

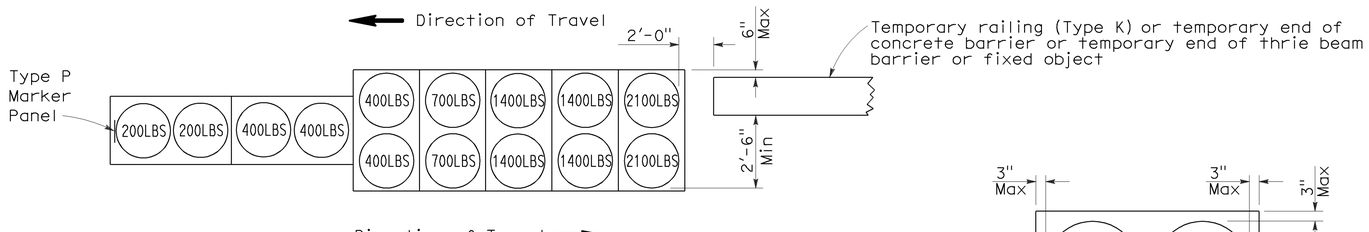
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-25-13



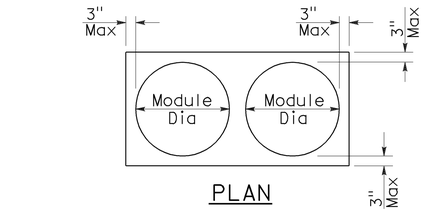
ARRAY 'TB11'

Approach speed less than 45 mph



ARRAY 'TB14'

Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED,Sac, Yol	50, 51	Var	20	31

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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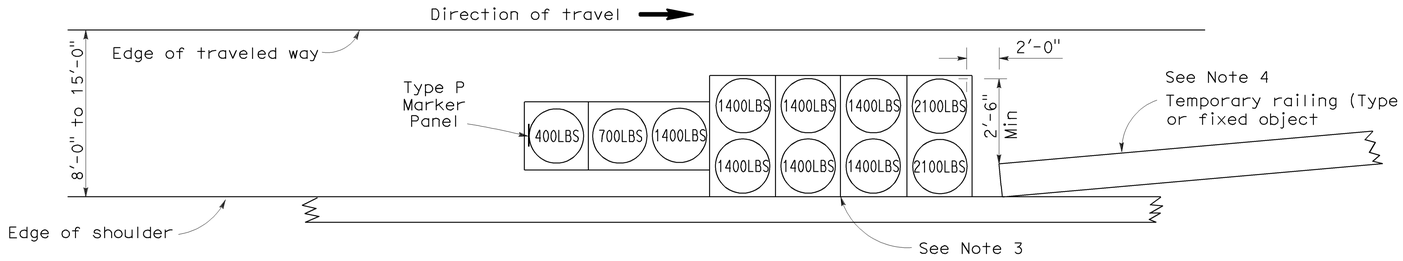
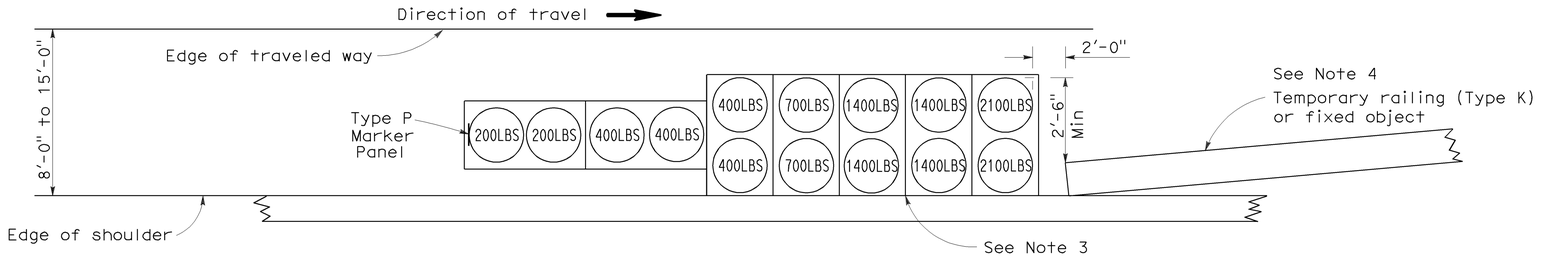
To accompany plans dated 2-25-13



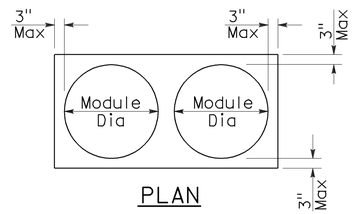
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

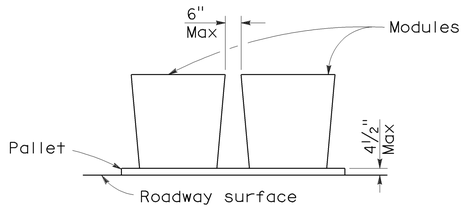


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

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. 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.
4. 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.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. 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.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. 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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50,51	Var	21	31

REGISTERED CIVIL ENGINEER — 12-26-12 DATE

2-25-13
PLANS APPROVAL DATE

Quang M. Vo
No. C 055211
Exp.6-30-14
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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

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	JOINT SEAL DETAILS NO. 1
10	JOINT SEAL DETAILS NO. 2
11	MISCELLANEOUS DETAILS

STANDARD PLANS DATED MAY 2010

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

JEFFERSON BLVD OC — BRIDGE NO 22-0106L/R

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	113 CF
REMOVE UNSOUND CONCRETE	113 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	45,010 SQFT
MULTILAYER POLYMER OVERLAY	45,010 SQFT
REMOVE CHIP SEAL	45,010 SQFT
CLEAN EXPANSION JOINT	520 LF
JOINT SEAL (MR 1/2")	104 LF
JOINT SEAL (MR 1")	104 LF
JOINT SEAL (MR 1 1/2")	312 LF

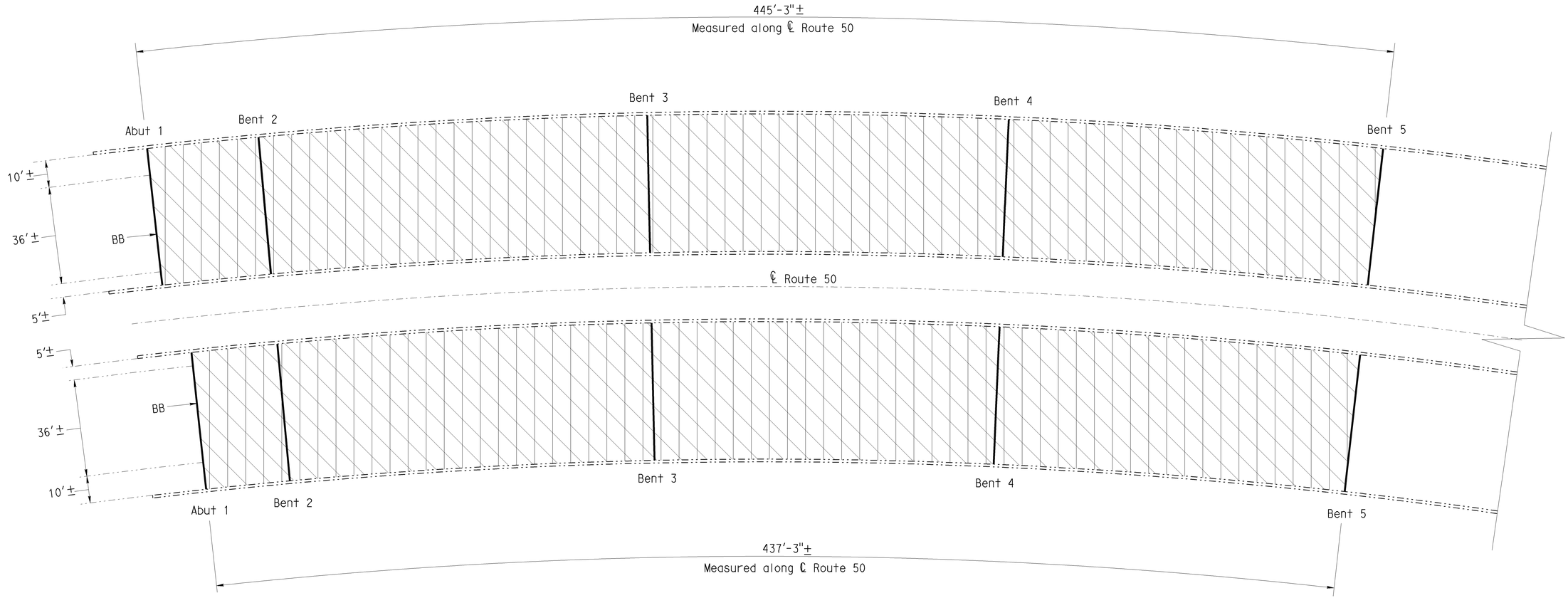
NOTES: (APPLY TO THIS SHEET ONLY)

-·-·-·- Indicates existing.

——— Indicates location of remove existing joint seal, clean expansion joint and install new joint Seal

Indicates limits of prepare concrete bridge deck surface, furnish and place new ⅜" minimum multilayer polymer overlay.
Prior to placing new multilayer polymer overlay remove unsound concrete and patch with rapid setting concrete as shown on "DECK REPAIR DETAIL-OVERLAY".

Indicates remove existing chip seal approximate thickness ½"±



JEFFERSON BLVD UC

Br No. 22-0106L/R, YOL, Route 50, PM 2.48
1"=20'

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

Matthew Lee 12-26-12
DESIGN ENGINEER

DESIGN	BY Q. Vo	CHECKED D. Acoba	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY N. Kelley	CHECKED D. Acoba	LAYOUT	BY N. Kelley	CHECKED Q. Vo		
QUANTITIES	BY Q. Vo	CHECKED D. Acoba	SPECIFICATIONS	BY Mary Kopsa	PLANS AND SPECS COMPARED Mary Kopsa		

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000008
CONTRACT NO.: 03-4M5101

BRIDGE NO. Varies
POST MILE Various

SOUTH FORK AMERICAN RIVER
GENERAL PLAN NO. 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
5-28-12	1-9-13	10-2-12	12-11-12	1	11

FILE => 03_4m5101_agp.dgn

USERNAME => s124428 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 07:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50,51	Var	22	31

REGISTERED CIVIL ENGINEER — 12-26-12 DATE

2-25-13 PLANS APPROVAL DATE

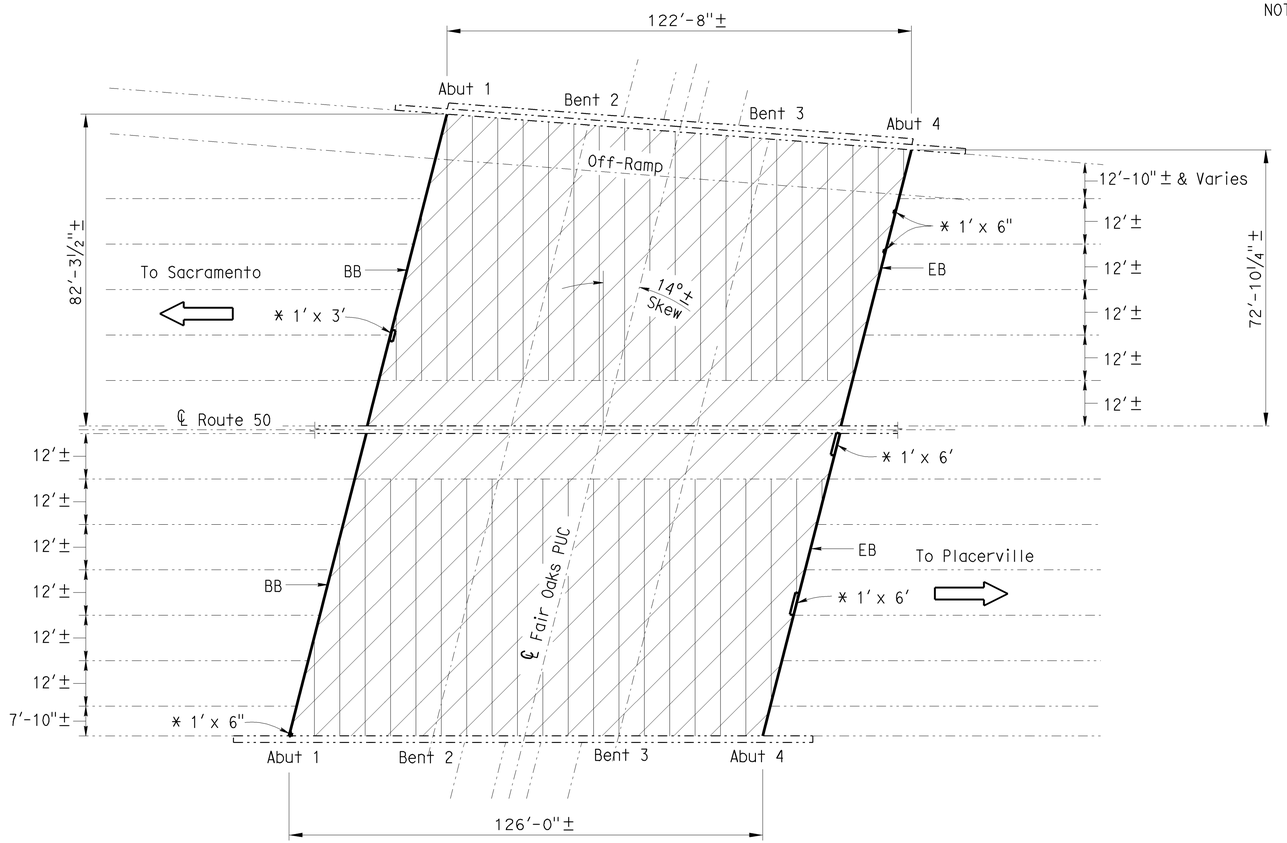
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

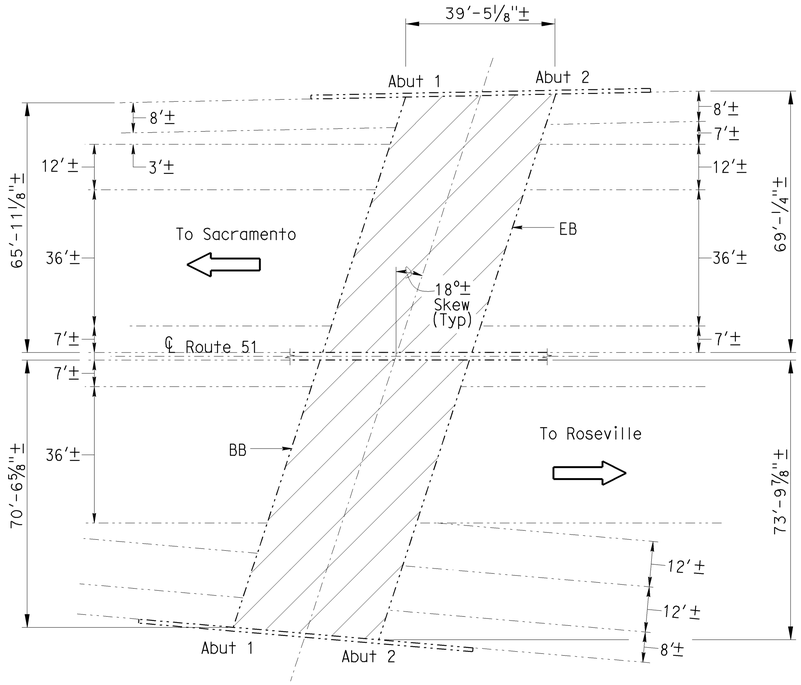
REGISTERED PROFESSIONAL ENGINEER — Quang M. Vo No. C 055211 Exp.6-30-14 CIVIL — STATE OF CALIFORNIA

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing.
- Indicates location of remove existing joint seal, clean expansion joint and install new joint Seal
- Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
- Indicates remove existing chip seal approximate thickness ½"±

* Approximate location & size of spalls repair.





FAIR OAKS PUC

Br No. 24-0171, SAC, Route 50, PM 12.85
1"=20'

FAIR OAKS PUC — BRIDGE NO 24-0171

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
RAPID SETTING CONCRETE (PATCH)	4	CF
REMOVE UNSOUND CONCRETE	4	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	19,600	SQFT
TREAT BRIDGE DECK	19,600	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	217	GAL
REMOVE CHIP SEAL	16,560	SQFT
CLEAN EXPANSION JOINT	334	LF
JOINT SEAL (MR 1")	334	LF

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

CAL EXPO UC

Br No. 24-0133, SAC, Route 51, PM 3.14
1"=20'

CAL EXPO UC — BRIDGE NO 24-0133

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	5,530	SQFT
TREAT BRIDGE DECK	5,530	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	62	GAL

Martin W. Lee 12-26-12
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Q. Vo	D. Acoba
DETAILS	N. Kelley	D. Acoba
QUANTITIES	Q. Vo	D. Acoba

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	N. Kelley	Q. Vo
SPECIFICATIONS	Mary Kopsa	PLANS AND SPECS COMPARED Mary Kopsa

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

SOUTH FORK AMERICAN RIVER
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000008
CONTRACT NO.: 03-4M5101

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
5-29-12	1-9-13	12-28-12	12-31-12	2	11

FILE => 03_4m5101_bgp.dgn

USERNAME => s1244428 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 07:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50,51	Var	23	31

REGISTERED CIVIL ENGINEER — 12-26-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Quang M. Vo, No. C 055211, Exp. 6-30-14, CIVIL, STATE OF CALIFORNIA

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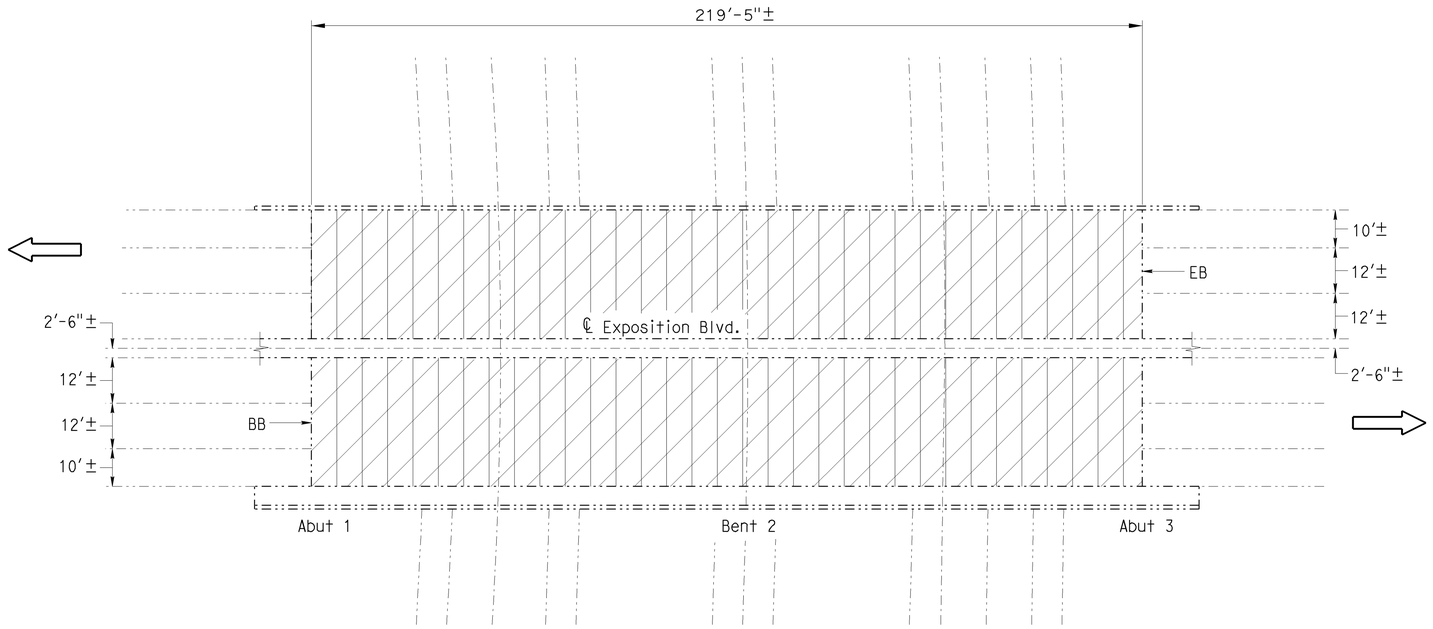


NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing.
- Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
- Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" minimum and varying depth polyester concrete overlay. Prior to placing new polyester concrete overlay remove unsound concrete and patch with rapid setting concrete as shown on "DECK REPAIR DETAIL-OVERLAY".
- Indicates remove existing chip seal approximate thickness ½" ±
- (1) For FG transition from new structure overlay to existing highway FG, see "ROADWAY PLANS".

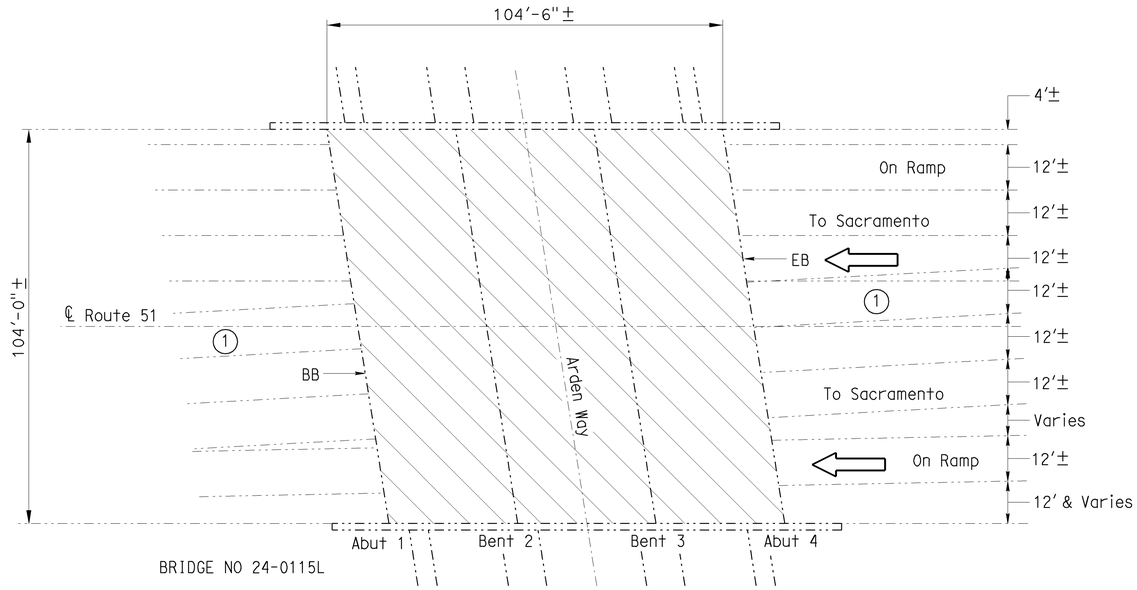
EXPOSITION BOULEVARD OC

Br No. 24-0285, SAC, Route 51, PM 3.36
1"=20'

EXPOSITION BLVD OC — BRIDGE NO 24-0285

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	14,920	SQFT
TREAT BRIDGE DECK	14,920	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	166	GAL
REMOVE CHIP SEAL	14,920	SQFT



ARDEN WAY UC — BRIDGE NO 24-0115L

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
RAPID SETTING CONCRETE (PATCH)	27	CF
REMOVE UNSOUND CONCRETE	27	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	10,870	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	1,087	CF
PLACE POLYESTER CONCRETE OVERLAY	10,870	SQFT

ARDEN WAY UC

Br No. 24-0115L, SAC, Route 51, PM 4.02
1"=20'

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

Matthew Lee 12-26-12
DESIGN ENGINEER

DESIGN	BY Q. Vo	CHECKED D. Acoba	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY N. Kelley	CHECKED D. Acoba	LAYOUT	BY N. Kelley	CHECKED Q. Vo		
QUANTITIES	BY Q. Vo	CHECKED D. Acoba	SPECIFICATIONS	BY Mary Kopsa	PLANS AND SPECS COMPARED Mary Kopsa		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

SOUTH FORK AMERICAN RIVER
GENERAL PLAN NO. 3

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000008
CONTRACT NO.: 03-4M5101

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
5-29-12	10-30-12	12-26-12	1-9-13	3	11

FILE => 03_4m5101_cgp.dgn

USERNAME = s124428 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 07:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50,51	Var	24	31

REGISTERED CIVIL ENGINEER — 12-26-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Quang M. Vo — No. C 055211 — Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

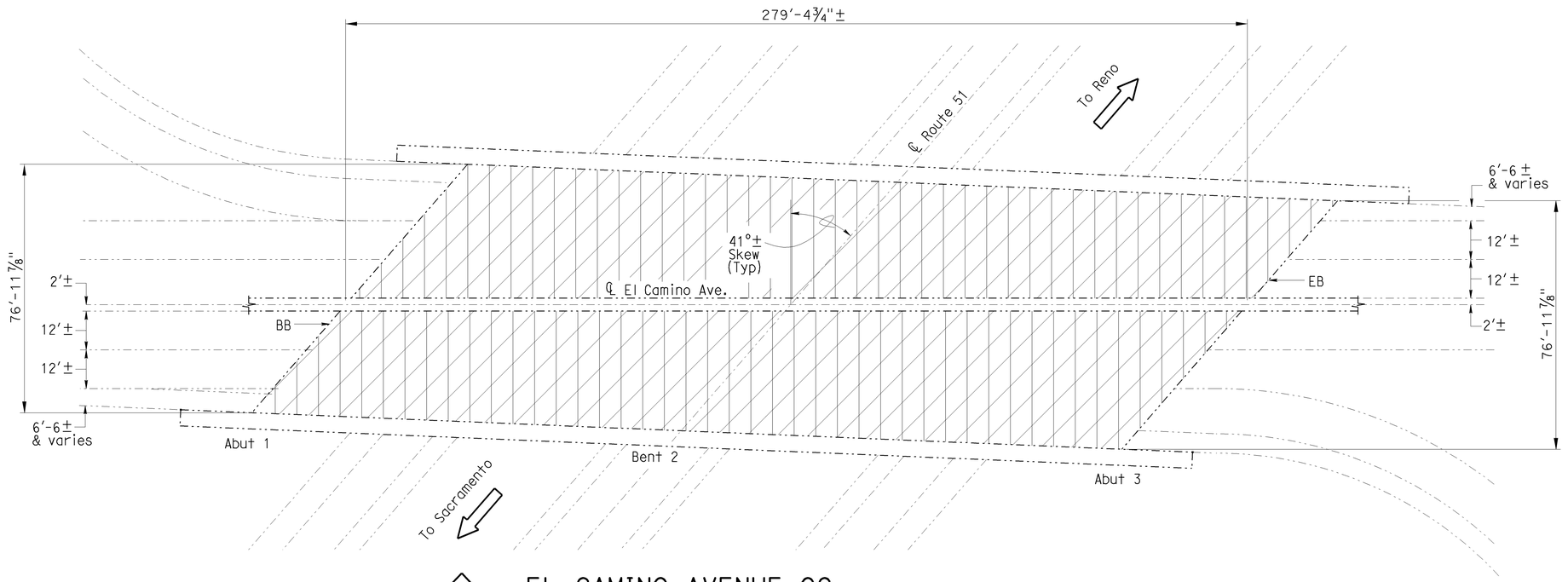
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES: (APPLY TO THIS SHEET ONLY)

-·-·-·- Indicates existing.

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

Indicates remove existing chip seal approximate thickness ½"±



EL CAMINO AVENUE OC

Br No. 24-0116, SAC, Route 51, PM 4.74
1"=20'

EL CAMINO AVE OC — BRIDGE NO 24-0116

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	20,400	SQFT
TREAT BRIDGE DECK	20,400	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	227	GAL
REMOVE CHIP SEAL	20,400	SQFT

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

	BY	CHECKED			
DESIGN	Q. Vo	D. Acoba	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	N. Kelley	D. Acoba	LAYOUT	N. Kelley	Q. Vo
QUANTITIES	Q. Vo	D. Acoba	SPECIFICATIONS	Mary Kopsa	Mary Kopsa

Matthew Wilcox 12-26-12
DESIGN ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

SOUTH FORK AMERICAN RIVER
GENERAL PLAN NO. 4

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000008 CONTRACT NO.: 03-4M5101

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
5-29-12	10-30-12	12-26-12	1-9-13	4	11

USERNAME = s1124428 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 07:45

FILE => 03_4m5101_egp.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED,Sac Yol	50,51	Var	25	31

REGISTERED CIVIL ENGINEER — 12-26-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Quang M. Vo — No. C 055211 — Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

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

NOTES: (APPLY TO THIS SHEET ONLY)

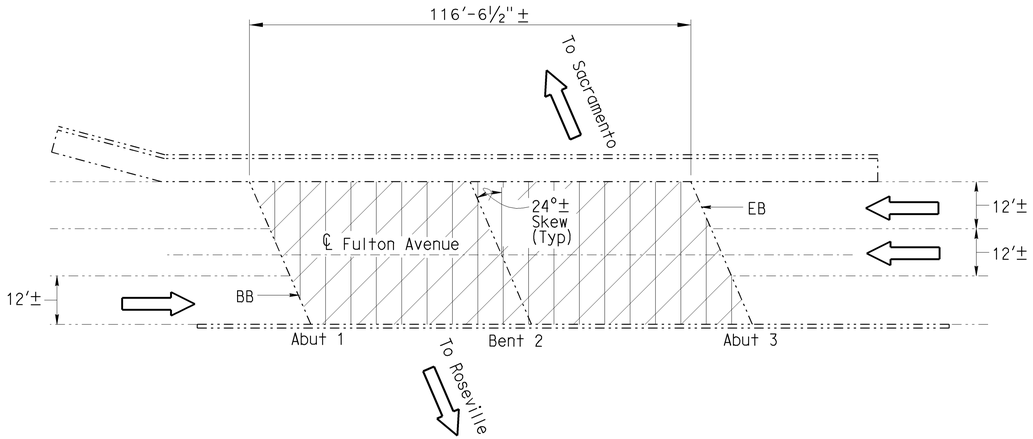
-·-·-·- Indicates existing.

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

Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" minimum polyester concrete overlay. Prior to placing new polyester concrete overlay remove unsound concrete and patch with rapid setting concrete as shown on "DECK REPAIR DETAIL-OVERLAY".

Indicates remove existing chip seal approximate thickness $\frac{1}{2}$"±

(1) For FG transition from new structure overlay to existing highway FG, see "ROADWAY PLANS".



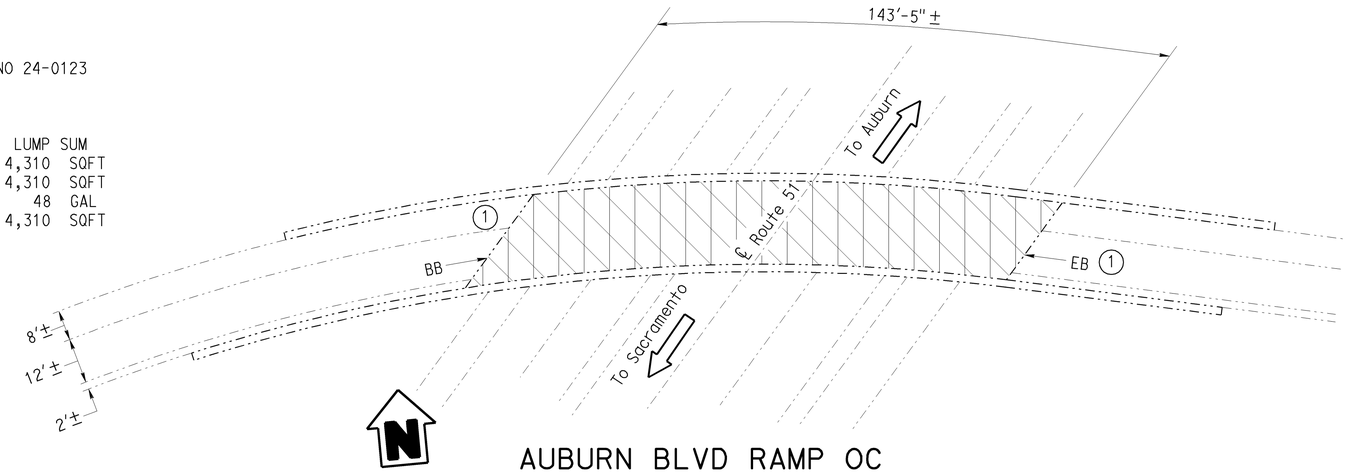
FULTON AVENUE OC

Br No. 24-0123, SAC, Route 51, PM 6.79
1"=20′

FULTON AVE OC — BRIDGE NO 24-0123

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	4,310 SQFT
TREAT BRIDGE DECK	4,310 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	48 GAL
REMOVE CHIP SEAL	4,310 SQFT



AUBURN BLVD RAMP OC

Br No. 24-0124K, SAC, Route 51, PM 7.7
1"=20′

AUBURN BLVD RAMP OC — BRIDGE NO 24-0124K

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	8 CF
REMOVE UNSOUND CONCRETE	8 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,160 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	316 CF
PLACE POLYESTER CONCRETE OVERLAY	3,160 SQFT
REMOVE CHIP SEAL	3,160 SQFT

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

Matthew W. Lee 12-26-12
DESIGN ENGINEER

DESIGN	BY O. Vo	CHECKED D. Acoba	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY N. Kelley	CHECKED D. Acoba	LAYOUT	BY N. Kelley	CHECKED O. Vo		
QUANTITIES	BY O. Vo	CHECKED D. Acoba	SPECIFICATIONS	BY Mary Kopsa	PLANS AND SPECS COMPARED Mary Kopsa		

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000008
CONTRACT NO.: 03-4M5101

BRIDGE NO. Varies
POST MILE Various

SOUTH FORK AMERICAN RIVER
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
5-28-12	1-9-13	12-26-12	12-31-12	5	11

FILE => 03_4m5101_fgp.dgn

USERNAME => s1224428 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 07:45

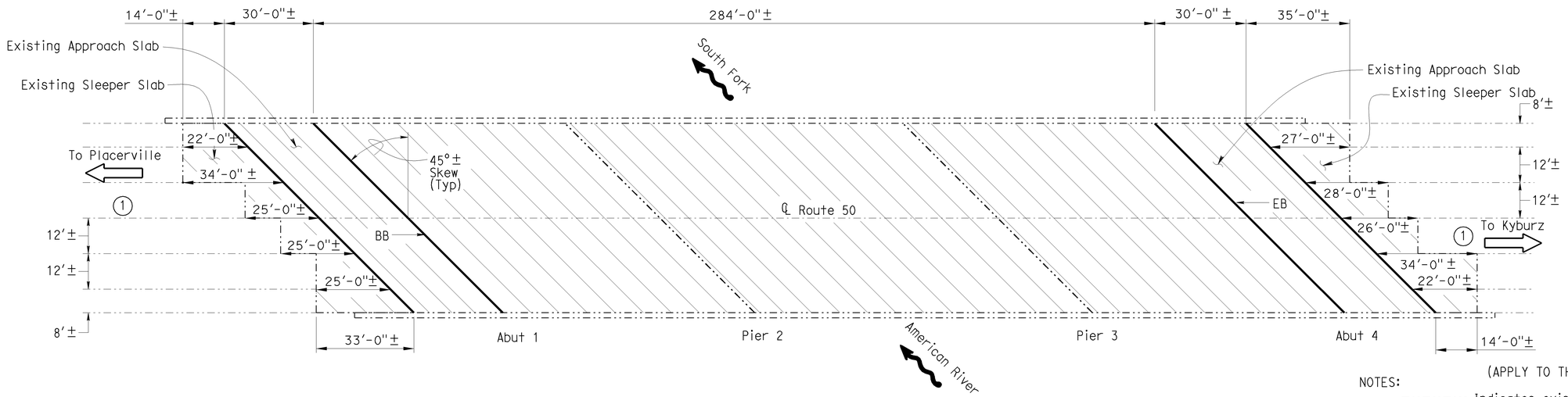
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED,Sac Yol	50,51	Var	26	31

REGISTERED CIVIL ENGINEER — 12-26-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Quang M. Vo — No. C 055211 — Exp.6-30-14 — CIVIL — STATE OF CALIFORNIA

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



SOUTH FORK AMERICAN RIVER BRIDGE NO 25-0008

QUANTITIES

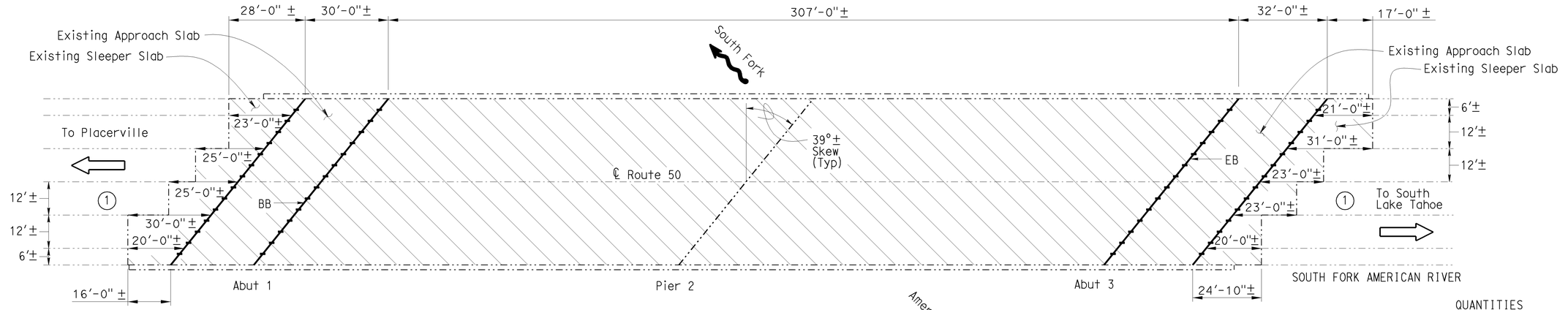
RAPID SETTING CONCRETE (PATCH)	52	CF
REMOVE UNSOUND CONCRETE	52	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	25,340	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	2,534	CF
PLACE POLYESTER CONCRETE OVERLAY	25,340	SQFT
CLEAN EXPANSION JOINT	364	LF
JOINT SEAL (MR 1/2")	182	LF
JOINT SEAL (MR 1 1/2")	182	LF

SOUTH FORK AMERICAN RIVER

Br No. 25-0008, ED, Route 50, PM 39.68
1"=20'

NOTES: (APPLY TO THIS SHEET ONLY)

- ----·---·---- Indicates existing.
- ——— Indicates location of remove existing joint seal, clean expansion joint and install new joint seal.
- ——|—— Indicates location of remove existing joint seal, clean expansion joint and install new joint seal, remove existing snow plow deflectors, see "MISCELLANEOUS DETAILS sheet.
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" minimum polyester concrete overlay. Prior to placing new polyester concrete overlay remove unsound concrete and patch with rapid setting concrete as shown on "DECK REPAIR DETAIL-OVERLAY" on "JOINT SEAL DETAILS NO. 1 sheet.
- (1) For FG transition from new structure overlay to existing highway FG, see "ROADWAY PLANS".



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

SOUTH FORK AMERICAN RIVER

Br No. 25-0098, ED, Route 50, PM R44.12
1"=20'

SOUTH FORK AMERICAN RIVER BRIDGE NO 25-0098

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	52	CF
REMOVE UNSOUND CONCRETE	52	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	24,920	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	2,492	CF
PLACE POLYESTER CONCRETE OVERLAY	24,920	SQFT
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP	SUM
CLEAN EXPANSION JOINT	312	LF
JOINT SEAL (MR 1/2")	156	LF
JOINT SEAL (MR 1 1/2")	156	LF

Matthew A. Lee 12-26-12
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Q. Vo	D. Acoba
DETAILS	N. Kelley	D. Acoba
QUANTITIES	Q. Vo	D. Acoba

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	N. Kelley	Q. Vo
SPECIFICATIONS	Mary Kopsa	PLANS AND SPECS COMPARED Mary Kopsa

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

SOUTH FORK AMERICAN RIVER
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000008
CONTRACT NO.: 03-4M5101

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
5-29-12	1-10-13	12-26-12	12-31-12	6	11

FILE => 03_4m5101_ggp.dgn

USERNAME => s124228 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 07:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50,51	Var	27	31

Quang 12-26-12
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Quang M. Vo — No. C 055211 — Exp.6-30-14 — CIVIL — STATE OF CALIFORNIA

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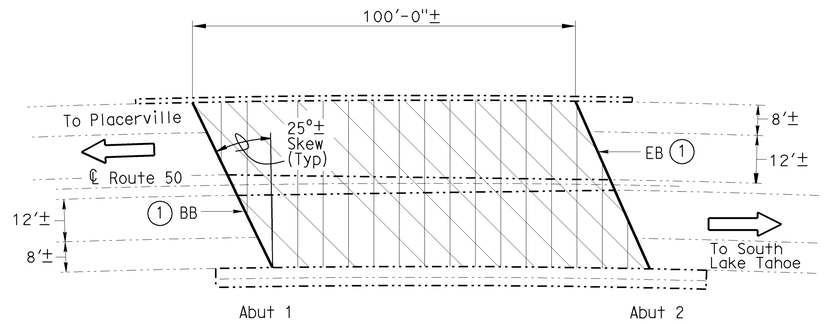


NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing.
- Indicates location of remove existing joint seal, clean expansion joint and install new joint Seal
- Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" minimum polyester concrete overlay. Prior to placing new polyester concrete overlay remove unsound concrete and patch with rapid setting concrete as shown on "DECK REPAIR DETAIL-OVERLAY".
- Indicates remove existing chip seal approximate thickness ½"±
- (1) For FG transition from new structure overlay to existing highway FG, see "ROARWAY PLANS".
- For SECTION A-A see JOINT SEAL DETAILS NO.2 sheet.

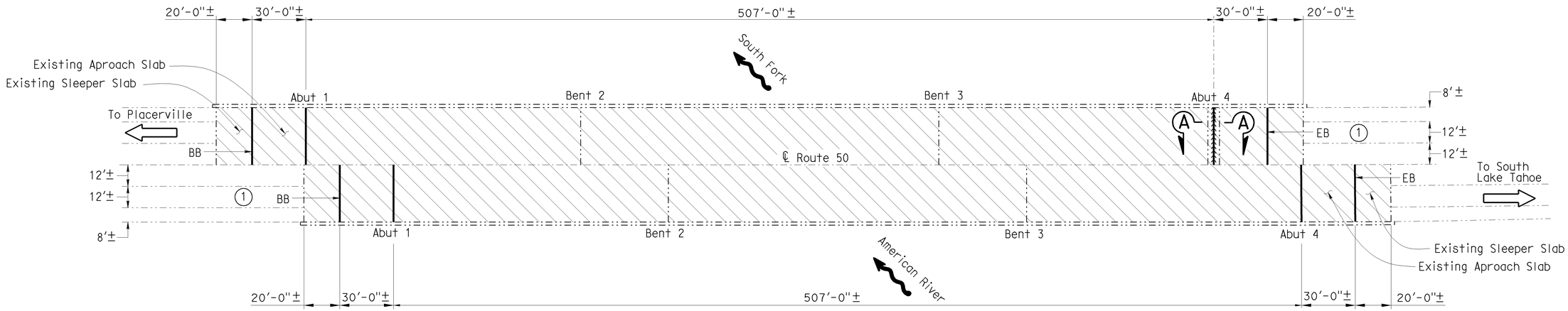
UPPER TRUCKEE RIVER

Br No. 25-0012, ED, Route 50, PM 70.31
1"=20'

UPPER TRUCKEE RIVER — BRIDGE NO 25-0012

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	11	CF
REMOVE UNSOUND CONCRETE	11	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,500	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	450	CF
PLACE POLYESTER CONCRETE OVERLAY	4,500	SQFT
REMOVE CHIP SEAL	4,500	SQFT
CLEAN EXPANSION JOINT	98	LF
JOINT SEAL (MR 1/2")	98	LF



SOUTH FORK AMERICAN RIVER

Br No. 25-0099, ED, Route 50, PM R44.25
1"=30'

SOUTH FORK AMERICAN RIVER — BRIDGE NO 25-0099

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	91	CF
REMOVE UNSOUND CONCRETE	91	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	38,850	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	3,885	CF
PLACE POLYESTER CONCRETE OVERLAY	38,850	SQFT
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	1	CY
CLEAN EXPANSION JOINT	260	LF
JOINT SEAL (MR 1")	130	LF
JOINT SEAL (MR 2")	130	LF

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

Matthew Lee 12-26-12
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Q. Vo	D. Acoba			
DETAILS	N. Kelley	D. Acoba	LAYOUT	N. Kelley	Q. Vo
QUANTITIES	Q. Vo	D. Acoba	SPECIFICATIONS	Mary Kopsa	Mary Kopsa

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

SOUTH FORK AMERICAN RIVER
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000008
CONTRACT NO.: 03-4M5101

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
5-24-12	1-10-13	12-12-12	12-26-12	7	11

FILE => 03_4m5101_hgp.dgn

USERNAME => s1124428 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 07:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50,51	Var	28	31

REGISTERED CIVIL ENGINEER — 12-26-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Quang M. Vo, No. C 055211, Exp. 6-30-14, CIVIL, STATE OF CALIFORNIA

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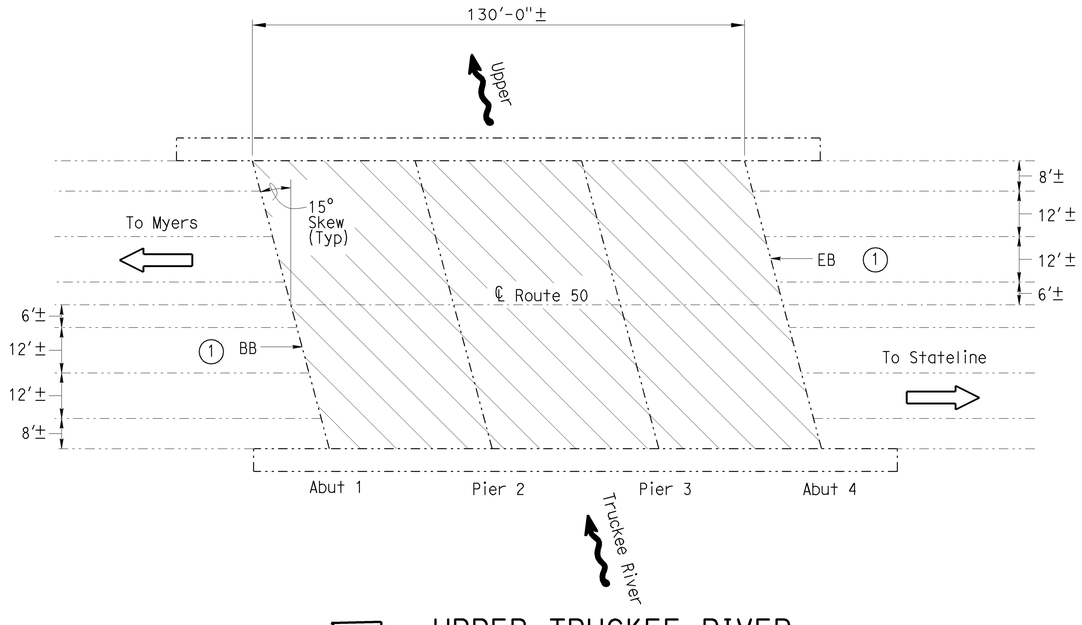
NOTES: (APPLY TO THIS SHEET ONLY)

-·-·-·-·- Indicates existing.

Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" minimum and varying depth polyester concrete overlay. Prior to placing new polyester concrete overlay remove unsound concrete and patch with rapid setting concrete as shown on "DECK REPAIR DETAIL-OVERLAY".

(1) For FG transition from new structure overlay to existing highway FG, see "ROARWAY PLANS".



UPPER TRUCKEE RIVER

Br No. 25-0010, ED, Route 50, PM 76.41
1"=20'

UPPER TRUCKEE RIVER — BRIDGE NO 25-0010

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	25 CF
REMOVE UNSOUND CONCRETE	25 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	9,880 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	988 CF
PLACE POLYESTER CONCRETE OVERLAY	9,880 SQFT

TROUT CREEK

Br No. 25-0013, ED, Route 50, PM 77.33
1"=20'

TROUT CREEK — BRIDGE NO 25-0013

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	15 CF
REMOVE UNSOUND CONCRETE	15 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,080 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	608 CF
PLACE POLYESTER CONCRETE OVERLAY	6,080 SQFT

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

Matthew A. Lee 12-26-12
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Q. Vo	D. Acoba			
DETAILS	N. Kelley	D. Acoba	LAYOUT	N. Kelley	Q. Vo
QUANTITIES	Q. Vo	D. Acoba	SPECIFICATIONS	Mary Kopsa	PLANS AND SPECS COMPARED Mary Kopsa

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

SOUTH FORK AMERICAN RIVER
GENERAL PLAN NO. 8

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0312000008
CONTRACT NO.: 03-4M5101

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
~~5-29-12~~	1-10-13	12-26-12	12-31-12	8	11

FILE => 03_4m5101_igp.dgn

USERNAME => s124228 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 07:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50,51	Var	29	31

REGISTERED CIVIL ENGINEER — 12-26-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Quang M. Vo — No. C 055211 — Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

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JOINT SEAL TABLE

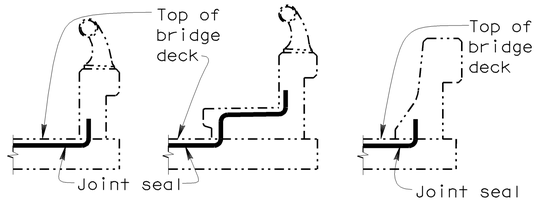
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
JEFFERSON BLVD UC	22-0106L/R	Abut 1	BB	½	104	No	12
		Bent 2	JT	1*	104	No	12
		Bent 3	JT	1½*	104	No	12
		Bent 4	JT	1½*	104	No	12
		Abut 5	EB	1½*	104	No	12
FAIR OAKS PUC	24-0171	Abut 1	BB	1	172	No	12
		Abut 4	EB	1	162	No	12
SOUTH FORK AMERICAN RIVER	25-0008	Joint @ AS 1	JT	½*	91	No	12
		Abut 1	BB	1½*	91	No	12
		Abut 4	EB	1½*	91	No	12
		Joint @ AS 4	JT	½*	91	No	12
SOUTH FORK AMERICAN RIVER	25-0098	Joint @ AS 1	JT	½*	78	No	12
		Abut 1	BB	1½*	78	No	12
		Abut 3	EB	1½*	78	No	12
		Joint @ AS 4	JT	½*	78	No	12
SOUTH FORK AMERICAN RIVER	25-0099	Joint @ AS 1	JT	1*	65	No	12
		Abut 1	BB	2*	65	No	12
		Abut 4	EB	2*	65	No	12
		Joint @ AS 4	JT	1*	65	No	12
UPPER TRUCKEE RIVER	25-0012	Abut 1	BB	½	49	No	12
		Abut 2	EB	½	49	No	12

LEGEND:
BW - Abutment backwall joint
BB - Paving Notch at beginning of bridge
EB - Paving Notch at end of bridge
JT - Expansion Joint
* - Use B Seal only.

DECK REPAIR TABLE

REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)

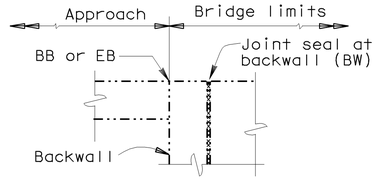
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH DAMAGE (INCHES)
JEFFERSON BLVD UC	22-0106L/R	1	3
ARDEN WAY UC	24-0115L	1	3
AUBURN BLVD RAMP OC	24-0124K	1	3
SOUTH FORK AMERICAN RIVER	25-0008	1	3
SOUTH FORK AMERICAN RIVER	25-0098	1	3
UPPER TRUCKEE RIVER	25-0012	1	3
SOUTH FORK AMERICAN RIVER	25-0099	1	3
UPPER TRUCKEE RIVER	25-0010	1	3
TROUT CREEK	25-0013	1	3



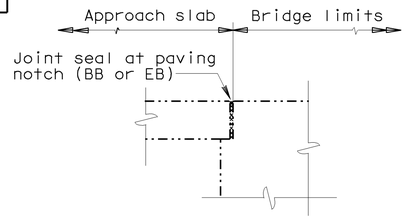
BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

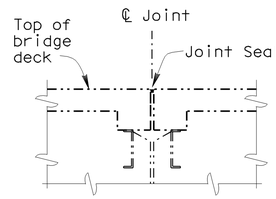
Notes: Details shown for illustration purposes only. For use only where deck joint matches the sidewalk, curb or barrier rail joint.



ABUTMENT WITH BACKWALL

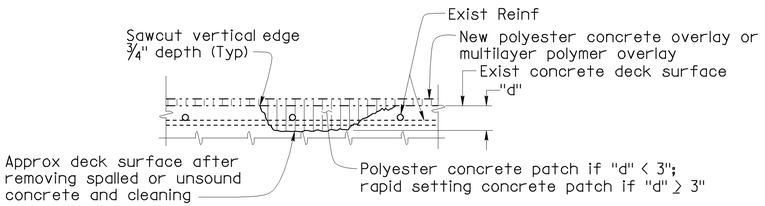


DIAPHRAGM ABUTMENT



PIER

JOINT SEAL LOCATION



DECK REPAIR DETAIL - OVERLAY

Note: Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal.

NO SCALE

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 B6-21

The following notes apply to JOINT SEAL TYPE A:

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

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

DESIGN	BY Q. Vo	CHECKED D. Acoba	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Varies
DETAILS	BY N. Kelley	CHECKED D. Acoba			POST MILE Various
QUANTITIES	BY Q. Vo	CHECKED D. Acoba			

SOUTH FORK AMERICAN RIVER

JOINT SEAL DETAILS NO. 1

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: 0312000008
CONTRACT NO.: 34-4M5101

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
5-29-12	12-26-12	1-8-13	1-10-13	9	11

FILE => 03_4m5101_jjs_not.dgn

USERNAME => s124428 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 07:46

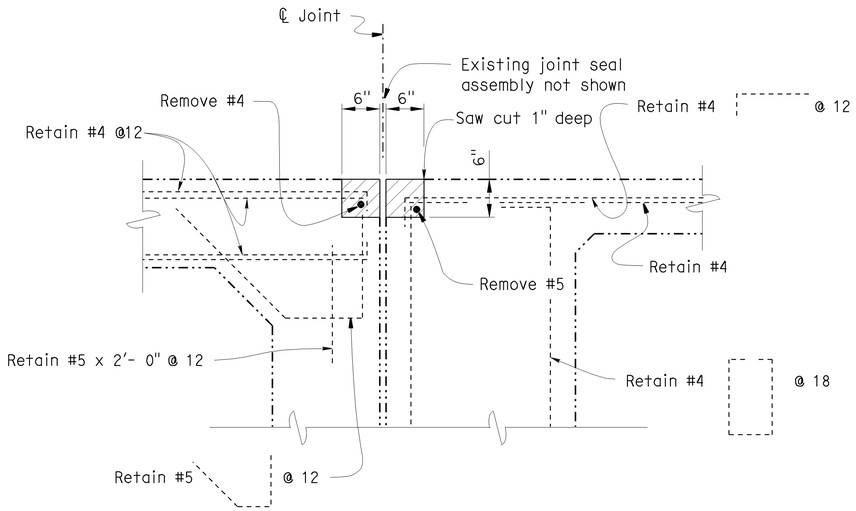
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50,51	Var	30	31

REGISTERED CIVIL ENGINEER — 12-26-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Quang M. Vo — No. C 055211 — Exp.6-30-14 — CIVIL — STATE OF CALIFORNIA

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



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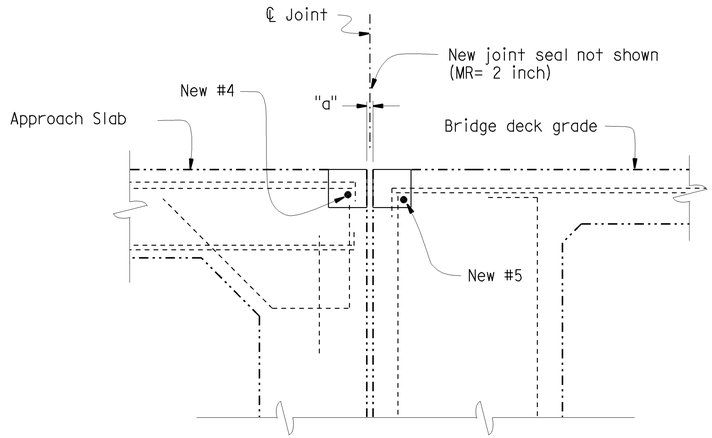

RECONSTRUCTION

SECTION A-A

BRIDGE NO. 25-0099,ED,ROUTE 50,PM44.25
NO SCALE

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

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of remove existing concrete and joint seal assembly. Retain existing reinforcing steel (except where noted otherwise).

"a" Reconstructed gap width as determined by Engineer. See B6-21

TEMPORARY DECKING DESIGN LOADING

MOMENT DEMAND/FOOT ($\frac{\text{lbs-ft}}{\text{ft}}$)	ANCHOR BOLT SHEAR/FOOT ($\frac{\text{lbs}}{\text{ft}}$)	ANCHOR BOLT TENSION (lbs)
4000	2000	4000

NOTES:

1. Plate deflection shall not exceed s/300. (s = span [FT])
2. Minimum plate thickness shall be equal or greater than 7/8".
3. Maximum anchorage bolt spacing shall not exceed 2 Ft.
4. Anchorage washer shall be neoprene or similar.

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:
fy = 60,000 psi
f'c = 3600 psi
n = 8

NO SCALE

	BY	CHECKED
DESIGN	Q. Vo	D. Acoba
DETAILS	N. Kelley	D. Acoba
QUANTITIES	Q. Vo	D. Acoba

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies
POST MILE Various

SOUTH FORK AMERICAN RIVER
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: 0312000008
CONTRACT NO.: 03-4M5101

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
5-29-12	12-14-12	12-26-12	10-2-12	10	11

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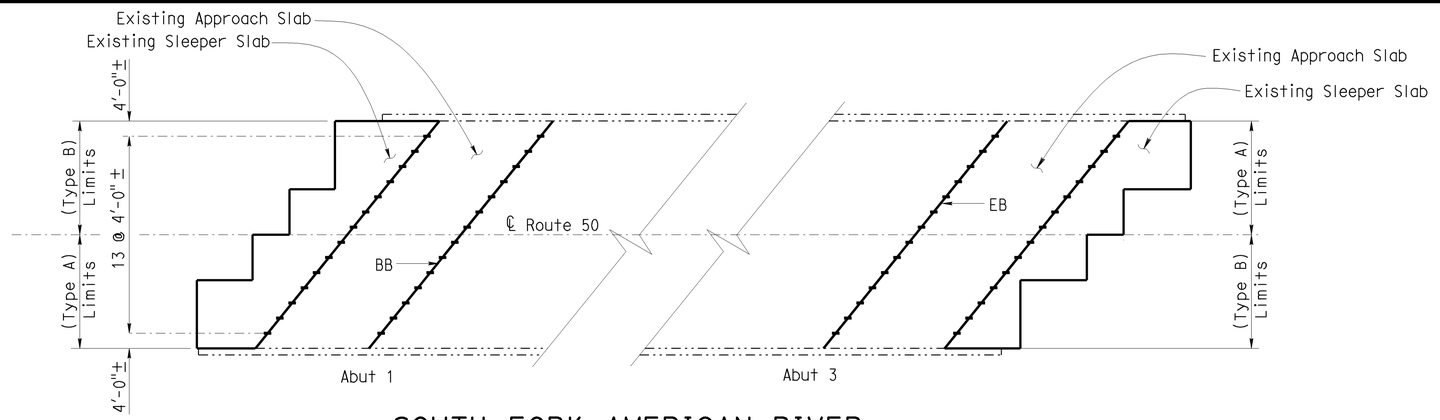

SOUTH FORK AMERICAN RIVER SNOWPLOW DEFLECTOR LAYOUT

Br No. 25-0098
1"=20'

Notes:

- Existing Steel Snowplow Deflector Units (Tot 22) and spacing not shown for clarity.
- Abutment 1 details shown, Abutment 4 details similar.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED, Sac Yol	50,51	Var	31	31

REGISTERED CIVIL ENGINEER — 12-26-12 DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Quang M. Vo, No. C 055211, Exp. 6-30-14, CIVIL, STATE OF CALIFORNIA

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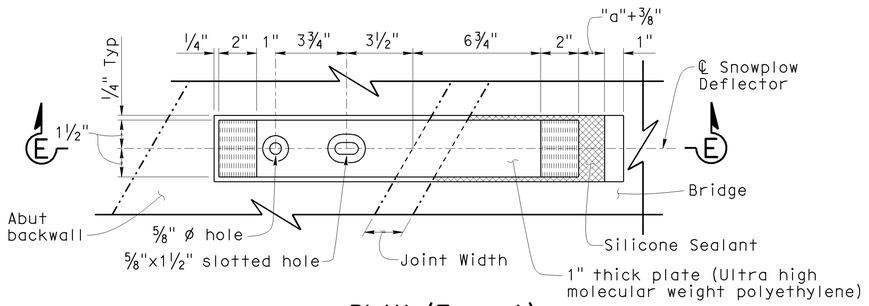
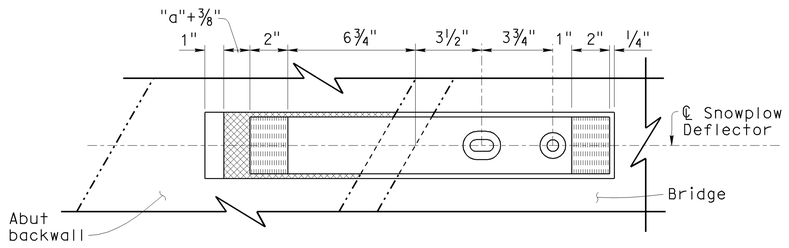
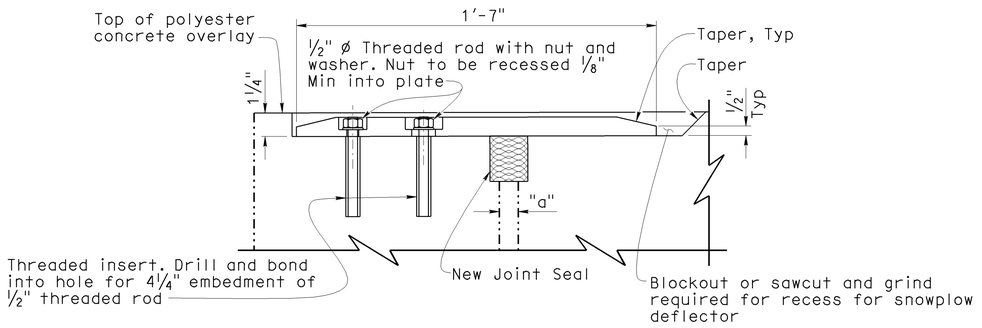


PLAN (Type A)



PLAN (Type B)

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



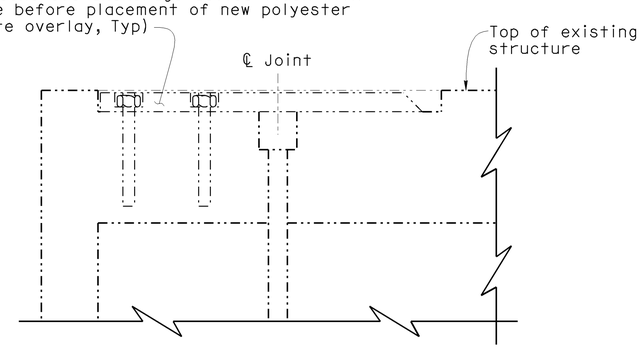
SECTION E-E

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

SNOWPLOW DEFLECTOR

3"=1'-0"

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"

DESIGN	BY Q. Vo	CHECKED D. Acoba	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Varies	SOUTH FORK AMERICAN RIVER MISCELLANEOUS DETAILS	
DETAILS	BY N. Kelley	CHECKED D. Acoba			POST MILE Various		
QUANTITIES	BY Q. Vo	CHECKED D. Acoba					

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: 0312000008 CONTRACT NO.: 03-4M5101

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
8-30-12	10-2-12			11	11

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