

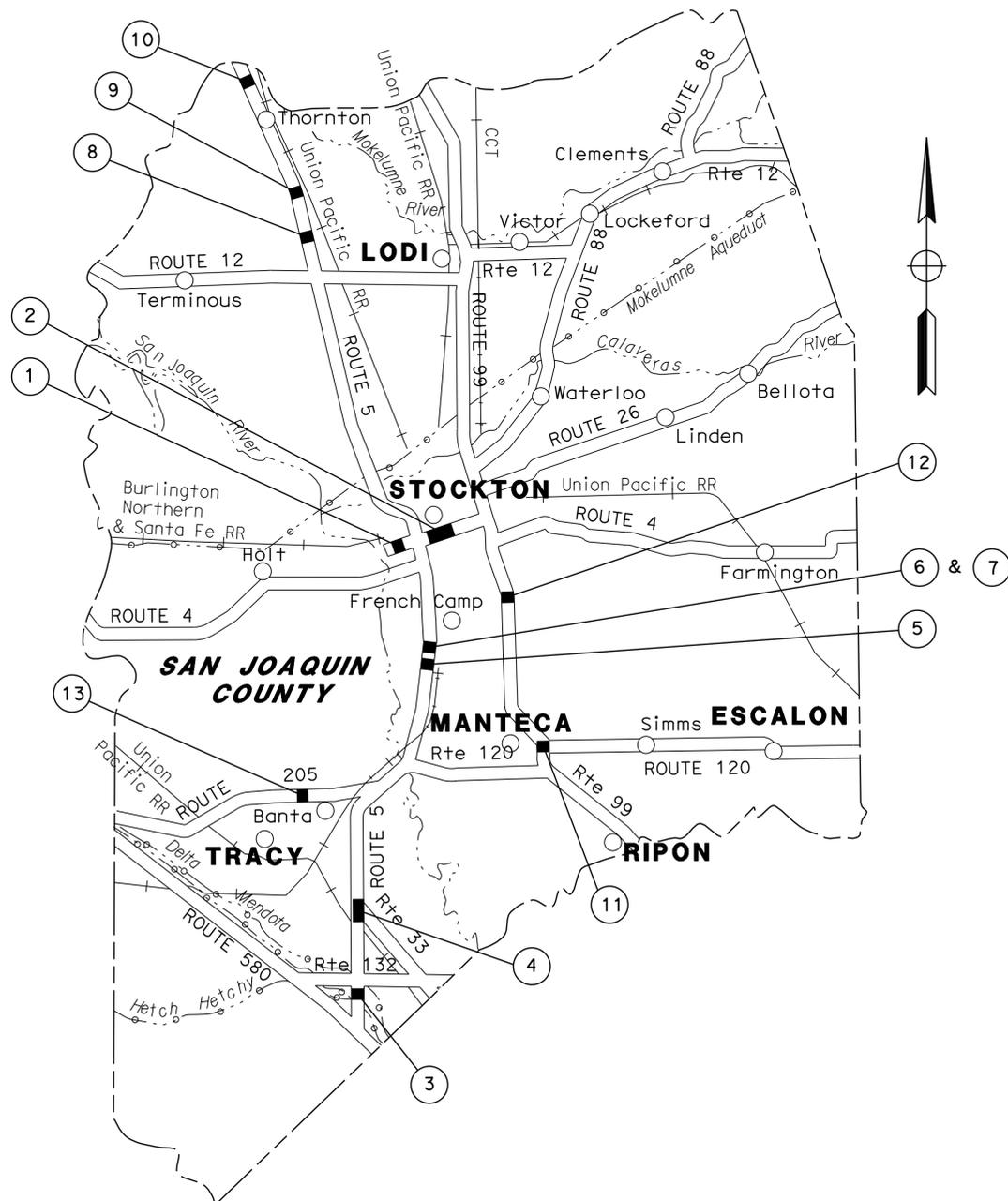
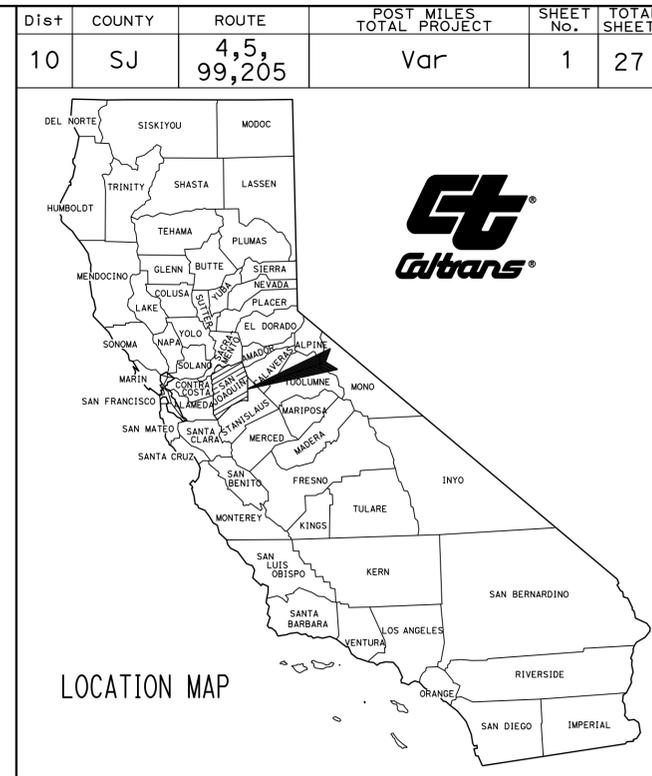
INDEX OF PLANS

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27	STRUCTURE APPROACH

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

STATE OF CALIFORNIA ACNHP-X077(021)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SAN JOAQUIN COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



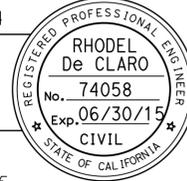
LOCATIONS OF CONSTRUCTION

Loc No.	ROUTE	PM	STRUCTURE NAME	BRIDGE No.
1	4	R15.67	GARFIELD STREET OH	29-0240R
2	4	R16.62	CROSTOWN FREEWAY VIADUCT	29-0269
3	5	3.27	DELTA MENDOTA CANAL	29-0205L
4	5	6.41	ROUTE 5/33 Sep & OH	29-0260L
5	5	R21.44	MATHEWS ROAD UC	29-0218R
6	5	R21.70	HOSPITAL ROAD UC	29-0219R
7	5	R21.70	HOSPITAL ROAD UC	29-0219L
8	5	41.66	TURNER ROAD UC	29-0245R
9	5	44.71	PELTIER ROAD UC	29-0246R
10	5	49.18	BARBER ROAD UC	29-0248L
11	99	6.65	ROUTE 99/120 Sep	29-0125
12	99	14.61	ARCH ROAD UC	29-0316
13	205	R9.61	PARADISE ROAD OC	29-0181

PROJECT MANAGER
JOY PINNE

DESIGN ENGINEER
ALVIN MANGINDIN

Rhodel DeClaro 3/6/14
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER



March 24, 2014
 PLANS APPROVAL DATE

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

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

NO SCALE

DATE PLOTTED => 10-APR-2014 TIME PLOTTED => 1:54:49

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN

REVISOR: RDC

DATE: 03/18/14

DESIGNER: RHODEL DE CLARO

CHECKER: JOSE A ALICEA II

DESIGNED BY: [Blank]

CHECKED BY: [Blank]

LEGEND

 - COLD PLANE AC PAVEMENT
HMA, SP (TYPE A)

ABBREVIATIONS:

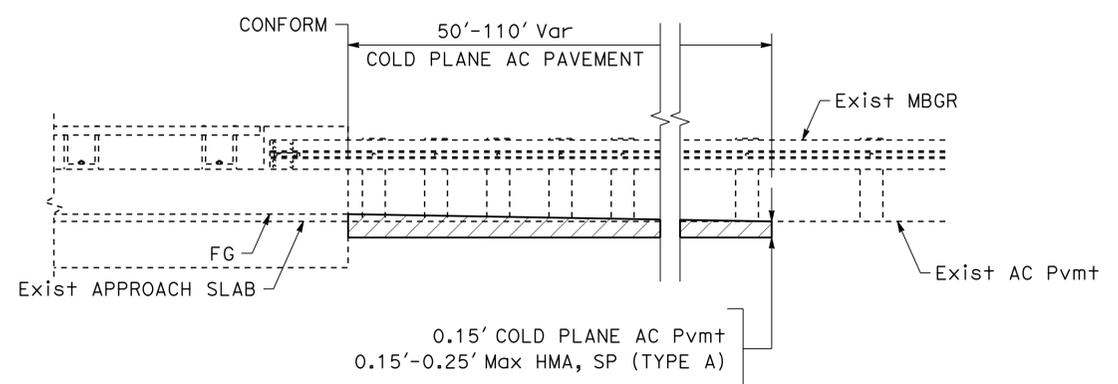
HMA, SP (TYPE A) - HOT MIX ASPHALT, SUPERPAVE (TYPE A)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5,99,205	Var	2	27

Rhodel De Claro 3/6/14
REGISTERED CIVIL ENGINEER DATE
03-24-14
PLANS APPROVAL DATE

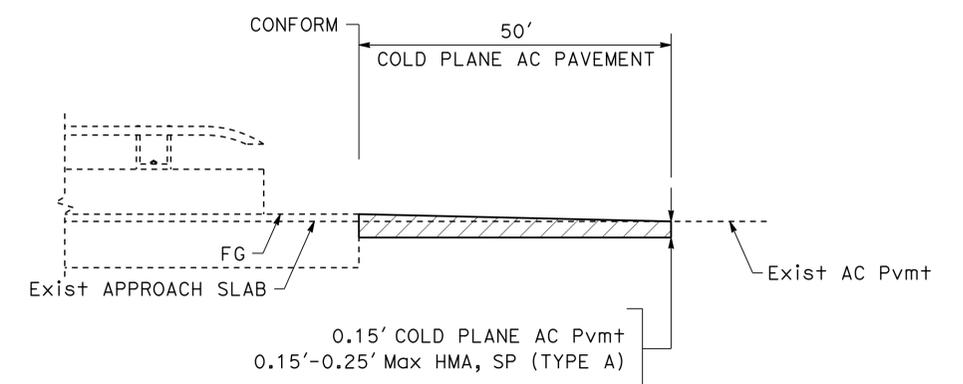
RHODEL De CLARO
No. 74058
Exp. 6/30/15
CIVIL
STATE OF CALIFORNIA

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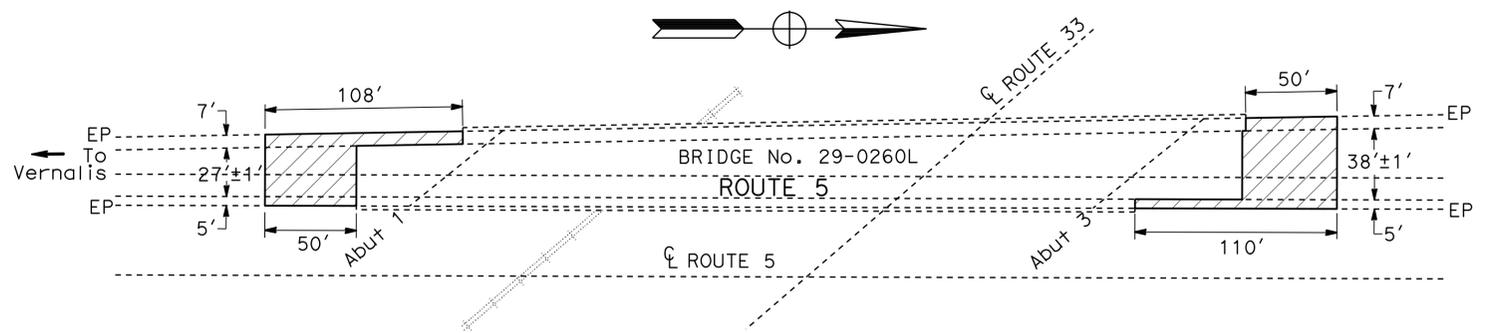
ROUTE 5-PM 6.41
ROUTE 5/33 Sep & OH
Br No. 29-0260L

**LOCATION 4
LONGITUDINAL CONFORM TAPER AT
APPROACH/DEPARTURE SLAB**



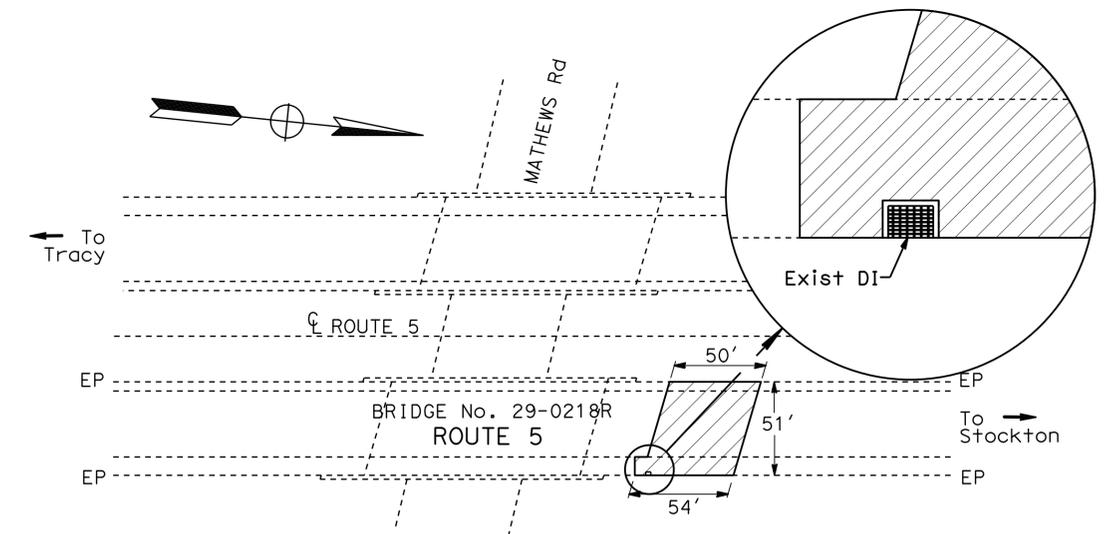
ROUTE 5-PM R21.44
MATHEWS ROAD UC
Br No. 29-0218R

**LOCATION 5
LONGITUDINAL CONFORM TAPER AT
DEPARTURE SLAB**



ROUTE 5-PM 6.41
ROUTE 5/33 Sep & OH
Br No. 29-0260L

**LOCATION 4
CONFORM TAPER LAYOUT**



ROUTE 5-PM R21.44
MATHEWS ROAD UC
Br No. 29-0218R

**LOCATION 5
CONFORM TAPER LAYOUT**

**CONSTRUCTION DETAILS
NO SCALE
C-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5,99,205	Var	3	27

Rhodol DeClaro 3/6/14
REGISTERED CIVIL ENGINEER DATE

03-24-14
PLANS APPROVAL DATE

RHODEL De CLARO
No. 74058
Exp 6/30/15
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

LOCATION No.	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS	REMARKS	SIGN No.
					FEDERAL	CALIFORNIA						
2	4	R16.62	CROSSTOWN FREEWAY VIADUCT	29-0269	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	6	MAINLINE, 4 SIGNS EB, 2 SIGNS WB	(A)
					W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	4	LOCAL ROAD ON-RAMPS	(B)
					G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	6	MAINLINE, 2 SIGNS EB, 4 SIGNS WB	(C)
4	5	6.41	ROUTE 5/33 Sep & OH	29-0260L	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	2	MAINLINE	(A)
					W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1	ON-RAMP FROM ROUTE 33	(B)
					G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	2	MAINLINE	(C)
5	5	R21.44	MATHEWS ROAD UC	29-0218R	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	2	MAINLINE	(A)
6	5	R21.70	HOSPITAL ROAD UC	29-0219R	W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1	ON-RAMP FROM MATHEWS ROAD	(B)
					G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	2	MAINLINE	(C)
7	5	R21.70	HOSPITAL ROAD UC	29-0219L	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	2	MAINLINE	(A)
					G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	2	MAINLINE	(C)
8	5	41.66	TURNER ROAD UC	29-0245R	G20-1		90" x 48"	ROAD CONSTRUCTION NEXT 3.5 MILES	2 - 6" x 6"	2	MAINLINE	(E)
					W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1	ON-RAMP FROM TURNER ROAD	(B)
9	5	44.71	PELTIER ROAD UC	29-0246R	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	2	MAINLINE	(C)
10	5	49.18	BARBER ROAD UC	29-0248L	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	2	MAINLINE	(A)
					G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	2	MAINLINE	(C)
11	99	6.65	ROUTE 99/120 Sep	29-0125	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	4	MAINLINE, 2 SIGNS EACH DIRECTION	(A)
					G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	4	MAINLINE, 2 SIGNS EACH DIRECTION	(C)
12	99	14.61	ARCH ROAD UC	29-0316	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	4	MAINLINE, 2 SIGNS EACH DIRECTION	(A)
					G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	4	MAINLINE, 2 SIGNS EACH DIRECTION	(C)
13	205	R9.61	PARADISE ROAD OC	29-0181	W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	2	LOCAL ROAD	(B)
					G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	2	LOCAL ROAD	(C)

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR
 ALVIN MANGINDIN
 CALCULATED/DESIGNED BY
 CHECKED BY
 RHODEL DE CLARO
 JOSE A ALICEA II
 REVISED BY
 DATE REVISED
 RDC
 03/18/14

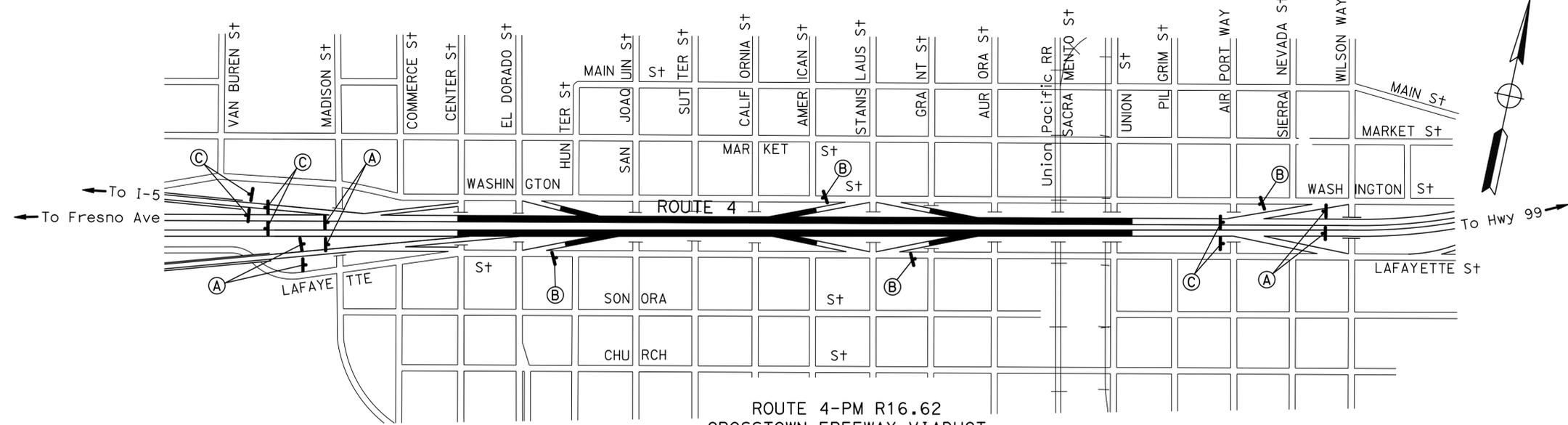
**CONSTRUCTION AREA SIGNS
CS-1**

LAST REVISION DATE PLOTTED => 26-MAR-2014
 00-00-00 TIME PLOTTED => 11:43

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 RHC: 03/18/14
 REVISED BY: JOSE A ALICEA II
 DATE REVISED: 03/18/14
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]

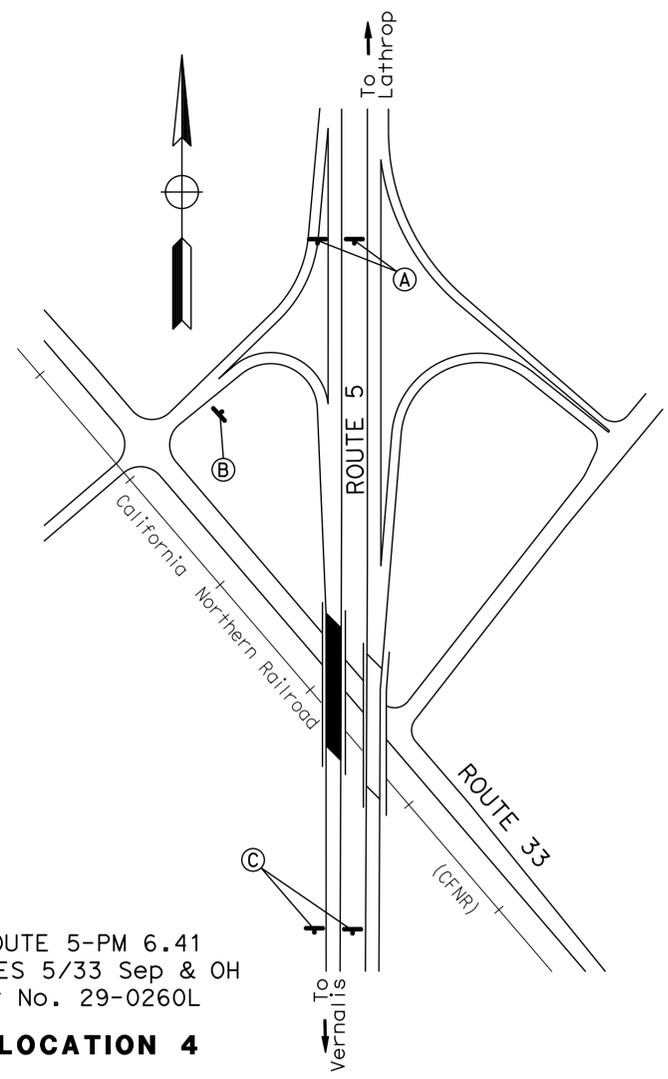
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5,99,205	Var	4	27

Rhodel DeClaro 3/6/14
 REGISTERED CIVIL ENGINEER DATE
 03-24-14
 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.



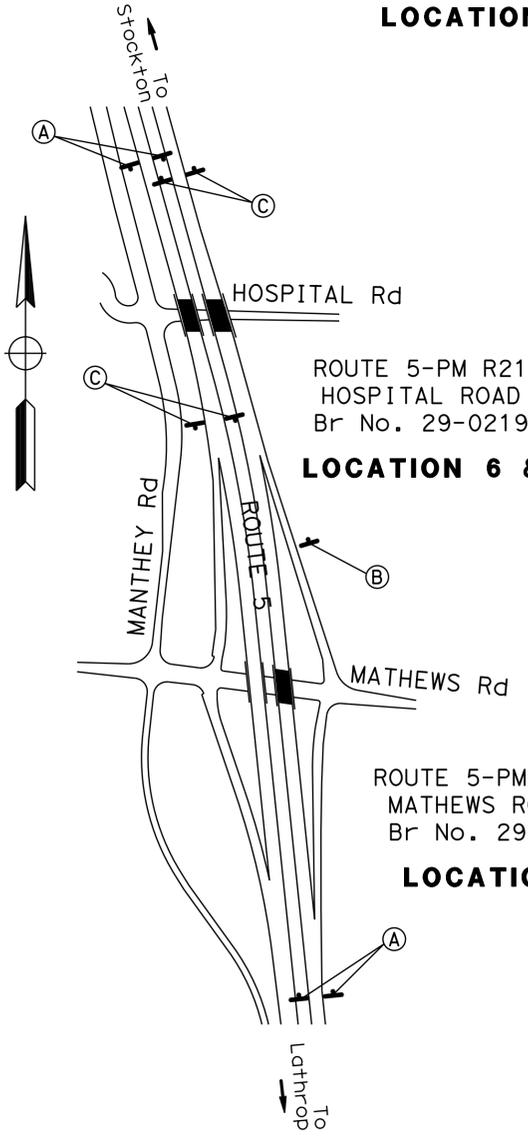
ROUTE 4-PM R16.62
 CROSSTOWN FREEWAY VIADUCT
 Br No. 29-0269

LOCATION 2



ROUTE 5-PM 6.41
 ROUTES 5/33 Sep & OH
 Br No. 29-0260L

LOCATION 4

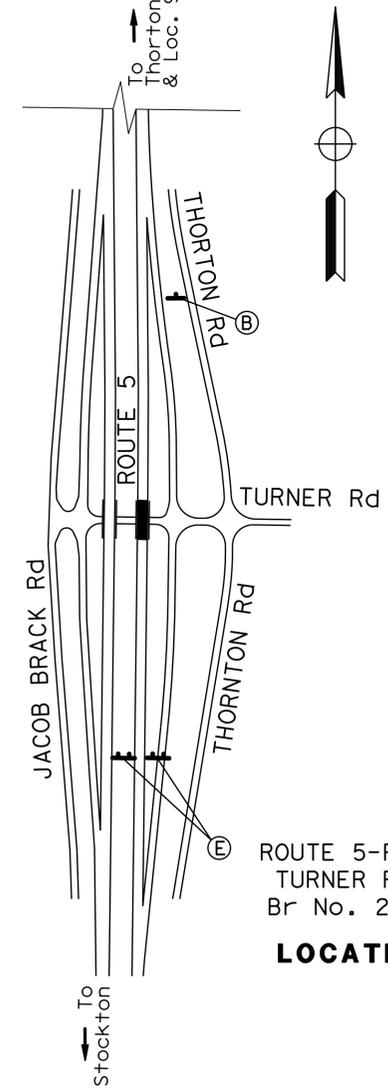


ROUTE 5-PM R21.70
 HOSPITAL ROAD UC
 Br No. 29-0219L/R

LOCATION 6 & 7

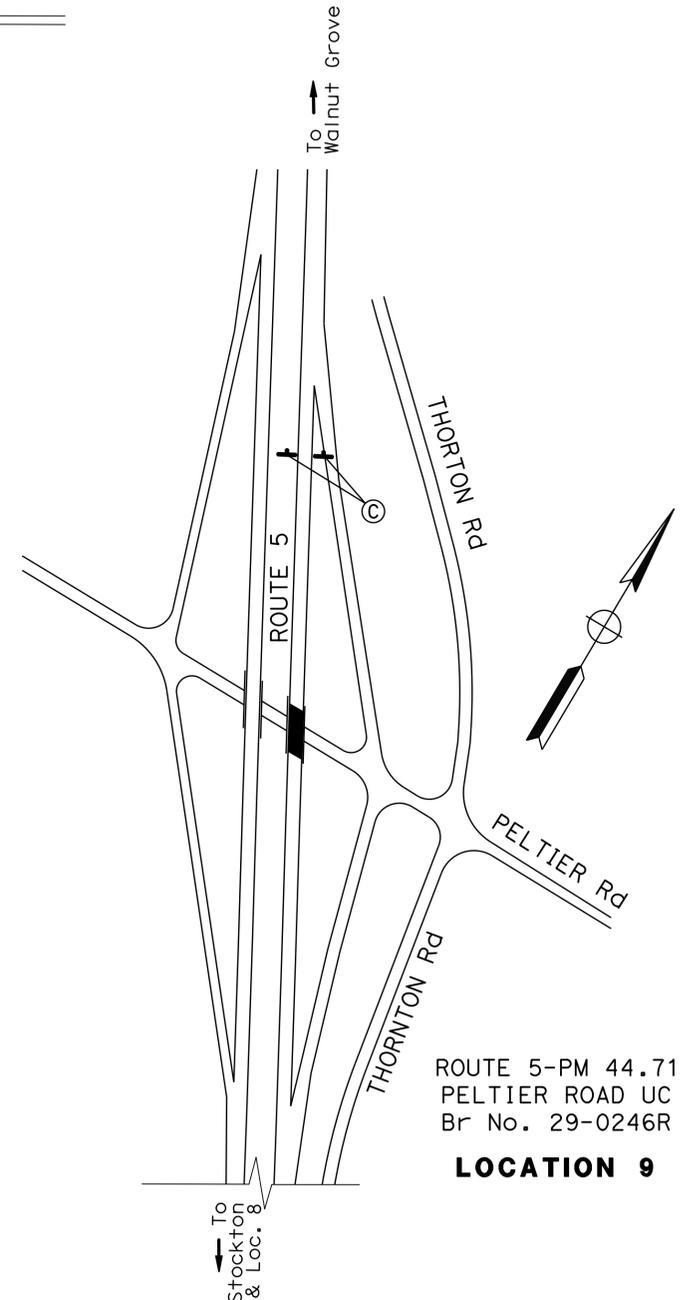
ROUTE 5-PM R21.44
 MATHEWS ROAD UC
 Br No. 29-0218R

LOCATION 5



ROUTE 5-PM 41.66
 TURNER ROAD UC
 Br No. 29-0245R

LOCATION 8



ROUTE 5-PM 44.71
 PELTIER ROAD UC
 Br No. 29-0246R

LOCATION 9

CONSTRUCTION AREA SIGNS
 NO SCALE
CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR
 ALVIN MANGINDIN

CALCULATED-DESIGNED BY
 CHECKED BY

RHODEL DE CLARO
 JOSE A ALICEA II

REVISED BY
 DATE REVISED

RDC
 03/18/14

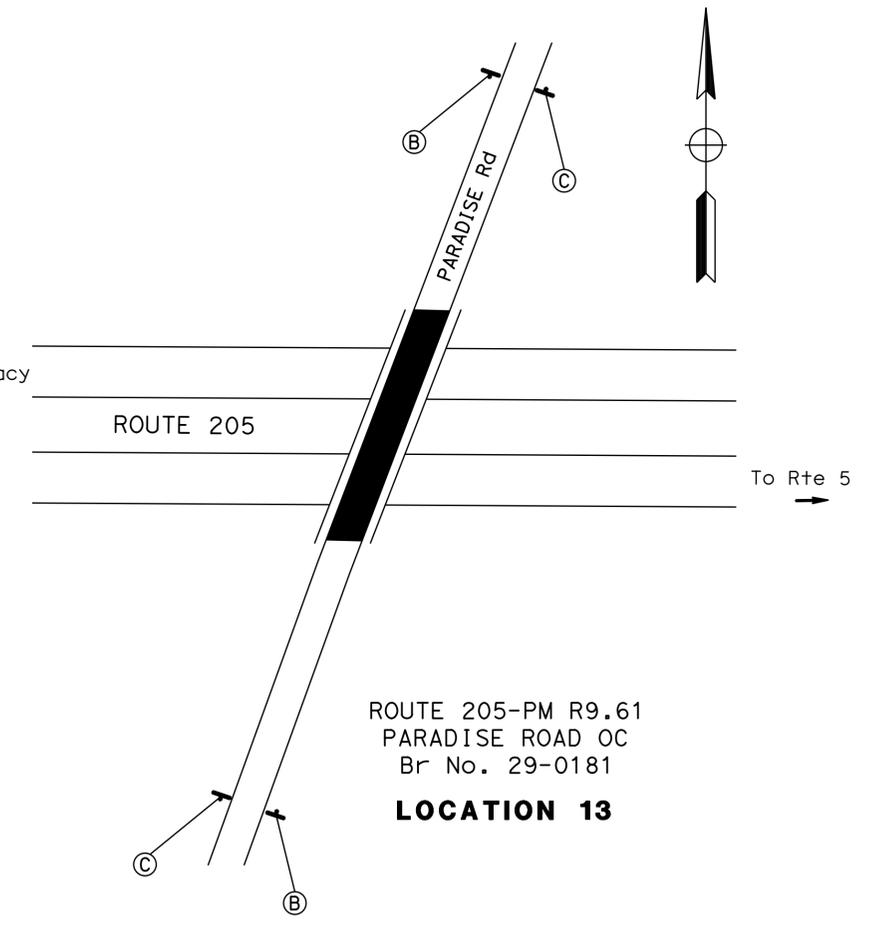
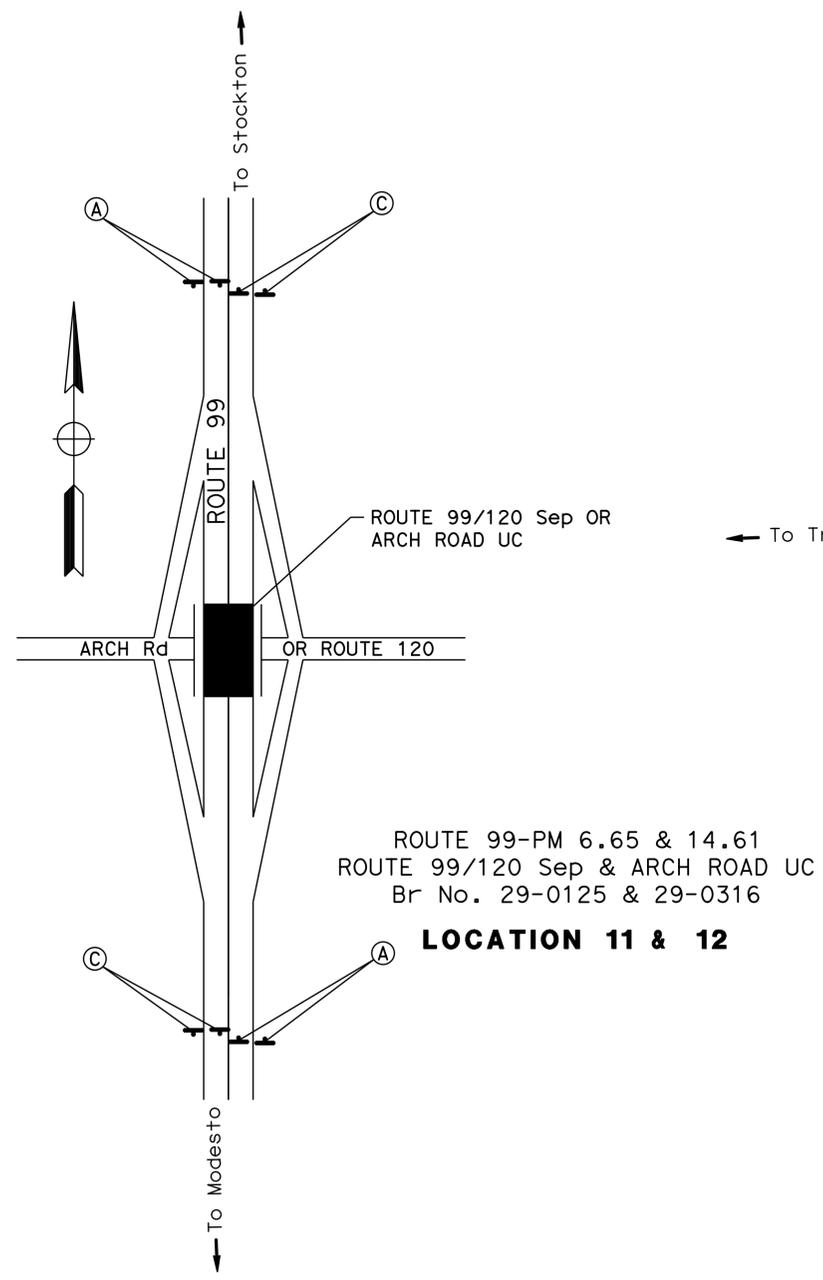
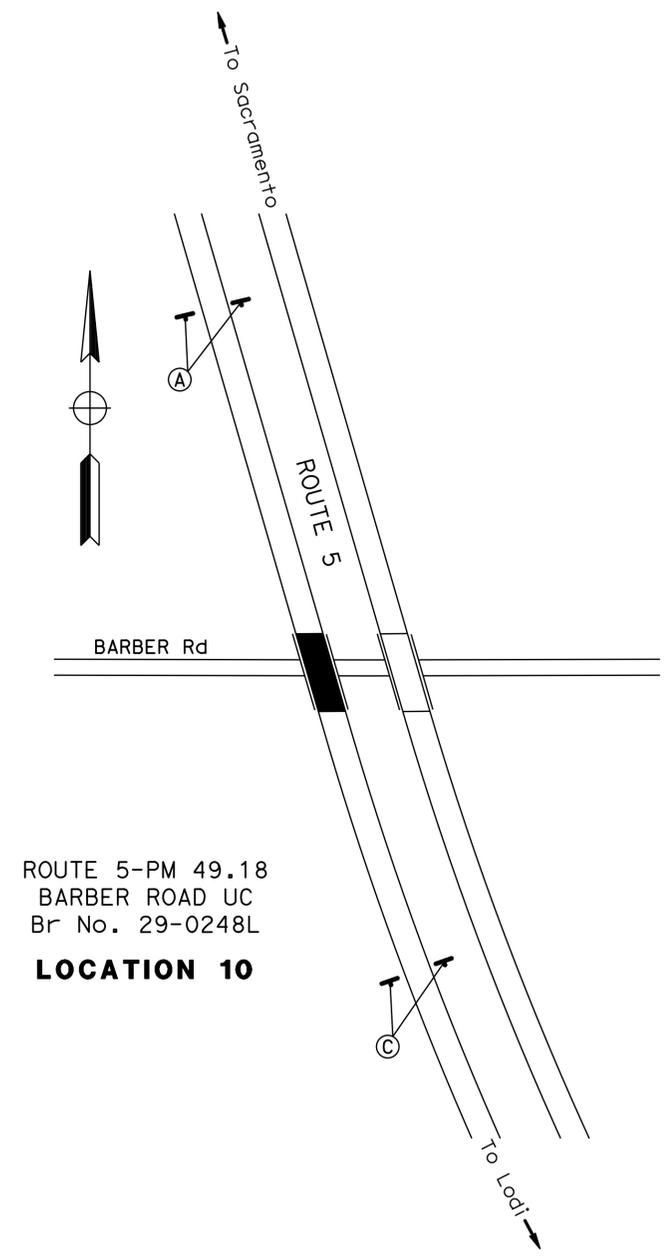
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5,99,205	Var	5	27

Rhodel DeClaro 3/6/14
 REGISTERED CIVIL ENGINEER DATE

03-24-14
 PLANS APPROVAL DATE

RHODEL De CLARO
 No. 74058
 Exp 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
 NO SCALE
CS-3

NOTES:

* - TOTAL INCLUDED IN PAVEMENT DELINEATION QUANTITIES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5,99,205	Var	6	27

Rhodol DeClaro 3/6/14
 REGISTERED CIVIL ENGINEER DATE

03-24-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 RHODEL De CLARO
 No. 74058
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES (TRAFFIC HANDLING) (1)

Loc No.	ROUTE	PM	BRIDGE NAME	Dir	Loc	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	TEMPORARY TRAFFIC STRIPE (TAPE)														
								YELLOW					WHITE									
								DETAIL 25	DETAIL 25A	DETAIL 27B	DETAIL 8	DETAIL 9	DETAIL 12	DETAIL 36	DETAIL 36A	DETAIL 38	DETAIL 38B	DETAIL 37				
2	4	R16.62	CROSSTOWN FREEWAY VIADUCT	EB	MAINLINE	4,391	7,573	4,391		2,515	555		10,632	640		160		1,940				
						RAMPS	750	4,480		750	3,000		170		600	810						
						WB	MAINLINE	4,391	7,747	4,391		2,300			9,502	970						5,240
							RAMPS	860	5,473		860	3,000		615		920	200	120	600	1,520		
SUBTOTAL						10,392	25,273	8,782	1,610	10,815	555	785	20,134	3,130	1,010	280	600	8,700				
TOTAL						10,392*	25,273*	56,401														

PAVEMENT DELINEATION QUANTITIES (TRAFFIC HANDLING) (2)

Loc No.	ROUTE	PM	BRIDGE NAME	Dir	Loc	REMOVE THERMOPLASTIC PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING (TAPE)					REMOVE PAVEMENT MARKER	TEMPORARY PAVEMENT MARKER												
							SIGNAL	AHEAD	TYPE II (R) ARROW	TYPE III (R) ARROW	TYPE V (R) ARROW		TYPE VI (R) ARROW	DETAIL 37	DETAIL 9	DETAIL 12	DETAIL 36	DETAIL 36A	DETAIL 37	DETAIL 38	DETAIL 38B	DETAIL 25	DETAIL 25A		
							SQFT						EA	EA											
2	4	R16.62	CROSSTOWN FREEWAY VIADUCT	EB	MAINLINE	126					126	416	66		222	14		18	4		92				
					RAMPS	147	32	31			84	66		4		13	17						32		
					WB	MAINLINE						532	176		199	21		44						92	
						RAMPS	309	96	93	45	42	33	169	52	13		20	5	14	3	26				36
SUBTOTAL						582	128	124	45	42	33	210	1183	294	17	421	68	22	76	7	26	184	68		
TOTAL						582*	582					1183*	1183												

TRAFFIC HANDLING QUANTITIES THQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR
 ALVIN MANGINDIN
 RHODEL DE CLARO
 JOSE A ALICEA II
 REVISOR
 DATE REVISOR
 RDC
 03/18/14
 CALCULATED-DESIGNED BY
 CHECKED BY
 DISTRICT SUPERVISOR
 DATE PLOTTED => 21-MAR-2014
 00-00-00 TIME PLOTTED => 09:04

NOTES:

* - SEE TRAFFIC HANDLING QUANTITIES SHEET FOR MORE DETAILS.

** - QUANTITIES FROM THQ SHEET.

PAVEMENT DELINEATION QUANTITIES

Loc No.	ROUTE	PM	BRIDGE NAME	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE				4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)		4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	8" THERMOPLASTIC TRAFFIC STRIPE				8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)
						YELLOW		WHITE		WHITE		WHITE	WHITE				WHITE
						DETAIL 22	DETAIL 25	DETAIL 25A	DETAIL 27B	DETAIL 8	DETAIL 9	DETAIL 12	DETAIL 36	DETAIL 36A	DETAIL 38	DETAIL 38B	DETAIL 37
				LF	LF	LF				LF		LF				LF	
2	4	R16.62	CROSTOWN FREEWAY VIADUCT *	10,392**	25,273**		8,782	1,610	10,815	555	785	20,134	1565	505	140	300	4350
4	5	6.41	ROUTE 5/33 Sep & OH	212	274		212		203			213					
5		R21.44	MATHEWS ROAD UC	232	390		232		235			464					
6		R21.70	HOSPITAL ROAD UC	119	198		119		119			238					
7		R21.70	HOSPITAL ROAD UC	119	198		119		119			238					
8		41.66	TURNER ROAD UC	103	137		103		103			103					
9		44.71	PELTIER ROAD UC	116	155		116		116			116					
10		49.18	BARBER ROAD UC		40				30			30					
11	99	6.65	ROUTE 99/120 Sep	420	560		420		420			420					
12		14.61	ARCH ROAD UC	938	1,251		938		938			938					
13	205	R9.61	PARADISE ROAD OC	462	462	462			462								
SUBTOTAL				13,113	28,938	462	11,041	1,610	13,560	555	785	22,894	1565	505	140	300	4350
TOTAL				13,113	28,938	26,673				1340		22,894	2510				4350

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5,99,205	Var	7	27

Rhodel DeClaro 3/6/14
 REGISTERED CIVIL ENGINEER DATE

03-24-14
 PLANS APPROVAL DATE

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PAVEMENT DELINEATION QUANTITIES

Loc No.	ROUTE	PM	BRIDGE NAME	REMOVE THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC PAVEMENT MARKING						REMOVE CHANNELIZERS	CHANNELIZER (SURFACE MOUNTED)	REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)										
					SIGNAL	AHEAD	TYPE II (R) ARROW		TYPE V ARROW	TYPE VI ARROW				TYPE C	TYPE D	TYPE G				TYPE H				
							TYPE III (R) ARROW	TYPE IV ARROW								DETAIL 37	DETAIL 22	DETAIL 9	DETAIL 12	DETAIL 36	DETAIL 36A	DETAIL 37	DETAIL 38	DETAIL 38B
				SQFT	SQFT						EA	EA	EA	EA										
2	4	R16.62	CROSTOWN FREEWAY VIADUCT *	582**	128	124	45	42	33	210			1183**	294		17	421	68	22	76	7	26	184	68
4	5	6.41	ROUTE 5/33 Sep & OH										10				5						5	
5		R21.44	MATHEWS ROAD UC										15				10						5	
6		R21.70	HOSPITAL ROAD UC										9				6						3	
7		R21.70	HOSPITAL ROAD UC										9				6						3	
8		41.66	TURNER ROAD UC										6				3						3	
9		44.71	PELTIER ROAD UC										6				3						3	
10		49.18	BARBER ROAD UC										1				1							
11	99	6.65	ROUTE 99/120 Sep									18				9						9		
12		14.61	ARCH ROAD UC								10	10	40				20						20	
13	205	R9.61	PARADISE ROAD OC									20		20										
SUBTOTAL				582	128	124	45	42	33	210	10	10	1317	294	20	17	484	68	22	76	7	26	235	68
TOTAL				582	582						10	10	1317	1317										

PAVEMENT DELINEATION QUANTITIES PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 RDC: 03/18/14
 REVISOR: RHODEL DE CLARO
 CHECKED BY: JOSE A ALICEA II
 DESIGNED BY: CALICATED-

LAST REVISION: DATE PLOTTED => 21-MAR-2014 00:00:00 TIME PLOTTED => 09:04

NOTES:

- * - TOTAL INCLUDED IN ROADWAY ITEMS TABLE.
- (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
- TRAFFIC MANAGEMENT SYSTEM ELEMENTS ARE APPROXIMATE.

ABBREVIATION:

HMA, SP (TYPE A) - HOT MIX ASPHALT, SUPERPAVE (TYPE A)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5 99,205	Var	8	27

Rhodel DeClaro 3/6/14
REGISTERED CIVIL ENGINEER DATE

03-24-14
PLANS APPROVAL DATE

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TRAFFIC MANAGEMENT SYSTEM ELEMENTS (EXISTING)

LOCATION	ROUTE	PM	Dir	LOCATION	TYPE
1	4	15.70		NAVY DRIVE/STOCKTON WAY & CHARTER WAY	SIGNAL
		R15.72	EB/WB	WEST OF ROUTE 5	TRAFFIC MONITORING STATION
2	4	R16.50	EB/WB	EAST OF ROUTE 5	TRAFFIC MONITORING STATION
		R16.63		WASHINGTON STREET & CENTER STREET	SIGNAL
		R16.64		LAFAYETTE STREET & CENTER STREET	SIGNAL
		R16.70		WASHINGTON STREET & EL DORADO STREET	SIGNAL
		R16.71		LAFAYETTE STREET & EL DORADO STREET	SIGNAL
5	5	R21.41	SB	NORTH OF MATHEWS ROAD	TRAFFIC MONITORING STATION
		R21.48	NB	MATHEWS ROAD OC IN MEDIAN	TRAFFIC MONITORING STATION
		R21.48		MATHEWS ROAD	ROADSIDE WEATHER INFORMATION SYSTEM
11	99	6.65	NB/SB	ROUTE 120 & YOSEMITE AVENUE	TRAFFIC MONITORING STATION
		6.65	NB	ROUTE 120 & YOSEMITE AVENUE	CLOSED CIRCUIT TELEVISION CAMERA
12	99	14.56		ARCH ROAD	SIGNAL
		14.71	SB	OFF-RAMP TO ARCH Rd	TRAFFIC MONITORING STATION
13	205	R9.59	WB	PARADISE Rd OC	TRAFFIC MONITORING STATION
		R9.60	EB/WB	WEST OF PARADISE Rd OC	WEIGH-IN-MOTION
		R9.61	EB	PARADISE Rd OC	TRAFFIC MONITORING STATION

ROADWAY QUANTITIES

LOCATION	HMA, SP (TYPE A)	TACK COAT
	TON	TON
CONFORM TAPERS	117	0.3
HMA DIKE	8	0.1
TOTAL	125	0.4

CONFORM TAPERS QUANTITIES

ROUTE	LOCATION No.	BRIDGE No.	BRIDGE NAME	DIRECTION	LOCATION	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	HMA, SP (TYPE A)	TACK COAT
								SQYD	TON	TON
5	4	29-0260L	ROUTE 5/33 Sep & OH	SB	APPROACH (EB)	50'-110' Var	5'-50' Var	320	43	0.1
					DEPARTURE (BB)	50'-108' Var	5'-39' Var	262	35	0.1
	5	29-0218R	MATHEWS ROAD UC	NB	DEPARTURE (EB)	50'-54' Var	51'	290	39	0.1
TOTAL								872	117*	0.3*

DIKE QUANTITIES

ROUTE	LOCATION No.	BRIDGE No.	BRIDGE NAME	DIRECTION	LOCATION	REMOVE AC DIKE	PLACE HMA DIKE (TYPE C)	PLACE HMA DIKE (TYPE E)	PLACE HMA DIKE (TYPE F)	HMA, SP (TYPE A)	TACK COAT
						LF	LF	LF	LF	TON	TON
5	4	29-0260L	ROUTE 5/33 Sep & OH	SB	RIGHT SHOULDER APPROACH (EB)	50	25		25	1.8	0.02
					RIGHT SHOULDER DEPARTURE (BB)	100		100		2.6	0.03
	5	29-0218R	MATHEWS ROAD UC	NB	RIGHT SHOULDER APPROACH (BB)	30	5		25	0.6	0.01
					RIGHT SHOULDER DEPARTURE (EB)	64		64		1.6	0.02
	9	29-0246R	PELTIER ROAD UC	NB	RIGHT SHOULDER APPROACH (BB)	30	5		25	0.6	0.01
					RIGHT SHOULDER DEPARTURE (EB)	30		30		0.8	0.01
TOTAL						304	35	194	75	8.0*	0.10*

SUMMARY OF QUANTITIES Q-1

	M	
Maint	MAINTENANCE	
Max	MAXIMUM	
MB	METAL BEAM	
MBB	METAL BEAM BARRIER	
MBGR	METAL BEAM GUARD RAILING	
Med	MEDIAN	
MGS	MIDWEST GUARDRAIL SYSTEM	
MH	MANHOLE	
Min	MINIMUM	
Misc	MISCELLANEOUS	
Misc I & S	MISCELLANEOUS IRON AND STEEL	
Mkr	MARKER	
Mod	MODIFIED, MODIFY	
Mon	MONUMENT	
MP	METAL PLATE	
MPGR	METAL PLATE GUARD RAILING	
MR	MOVEMENT RATING	
MSE	MECHANICALLY STABILIZED EMBANKMENT	
Mt	MOUNTAIN, MOUNT	
MtI	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	N	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	O	
Obir	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	P	
p	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm MtI	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	Q	
Qty	QUANTITY	
	R	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
±	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

	T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	U
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	V
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	W
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
WWLOL	WINGWALL LAYOUT LINE	X
X Sec	CROSS SECTION	
Xing	CROSSING	Y
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5, 99,205	Var	9	27

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Grace M. Tsushima
 No. C49814
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 03-24-14

UNIT OF MEASUREMENT SYMBOLS:
Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
∅	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

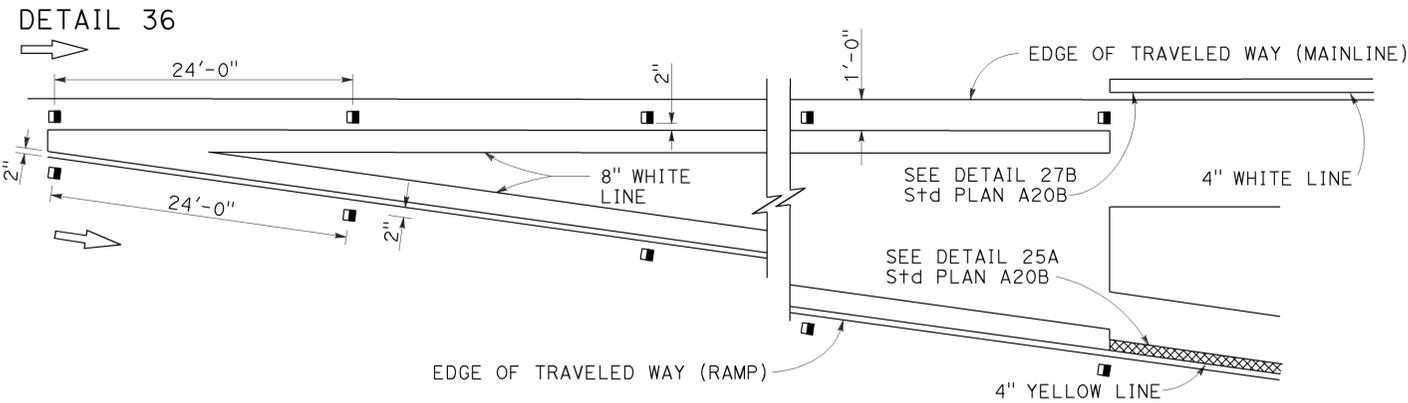
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

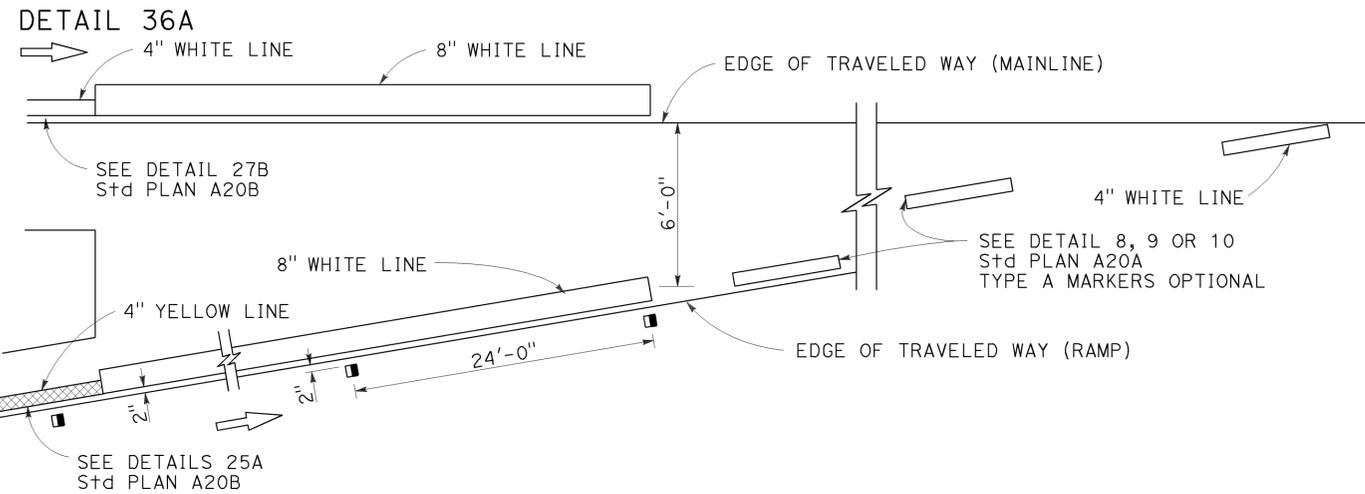
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

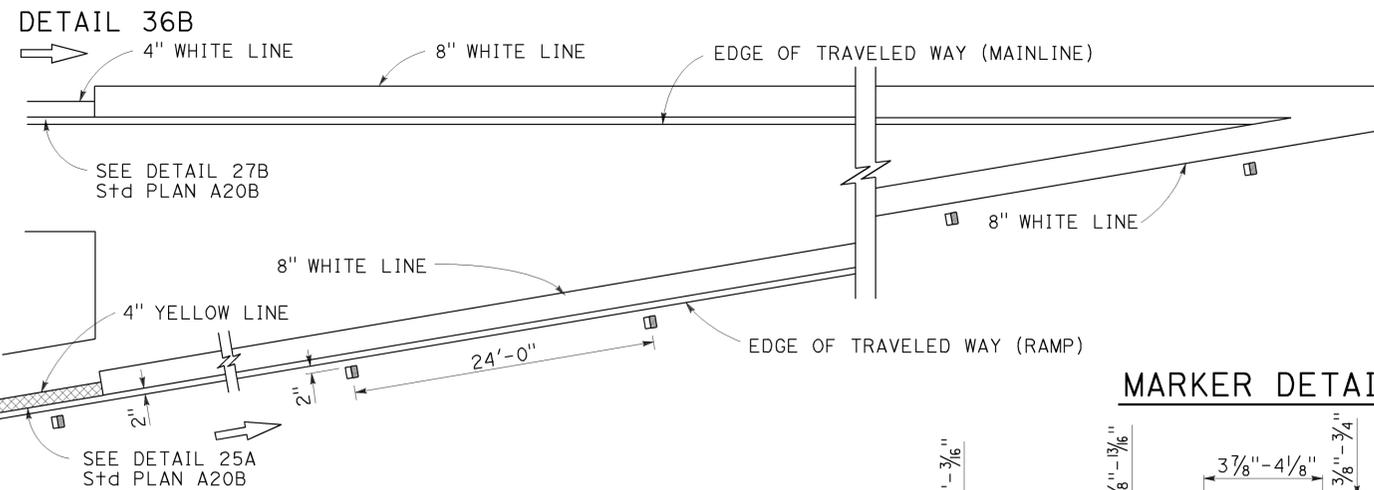
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

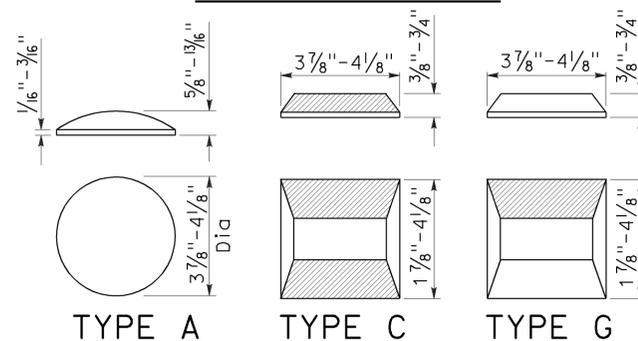


MARKER DETAILS

LEGEND:

MARKERS

- TYPE A WHITE NON-REFLECTIVE
- ◻ TYPE C RED-CLEAR RETROREFLECTIVE
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE



RETROREFLECTIVE FACE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5 99,205	Var	10	27

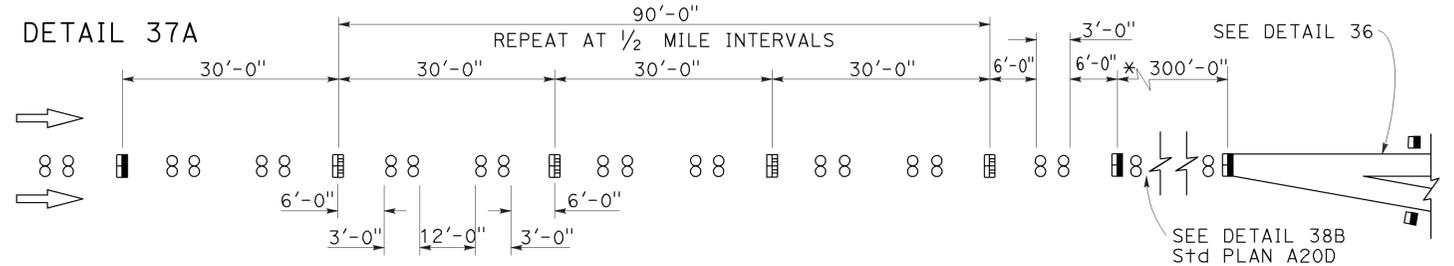
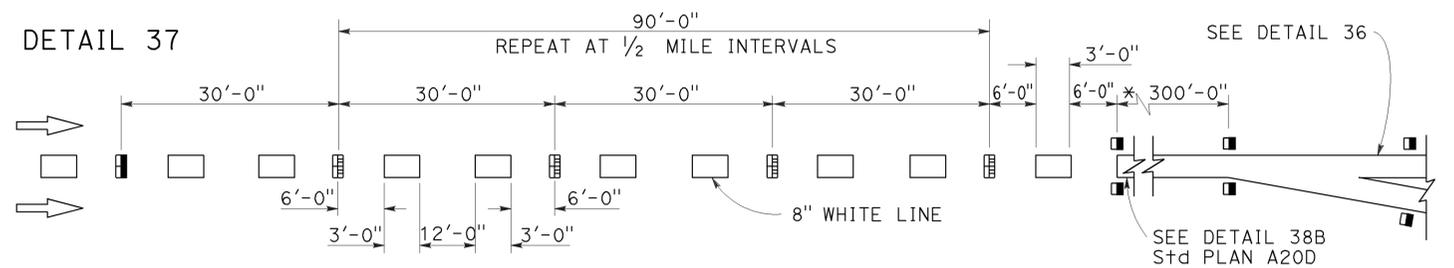
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Roberta L. McLaughlin
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 STATE OF CALIFORNIA

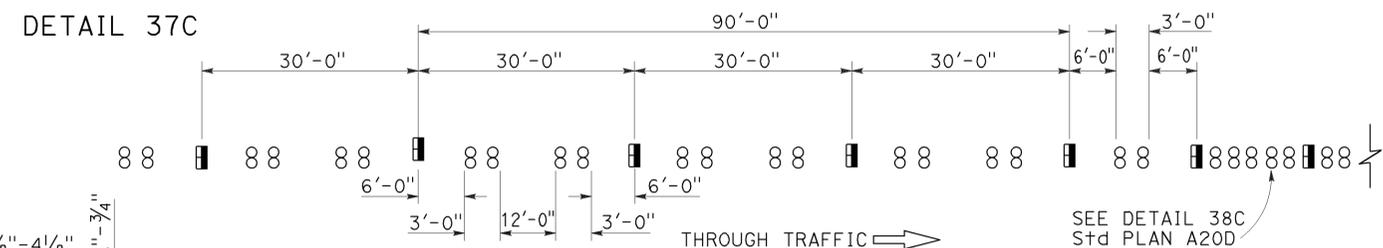
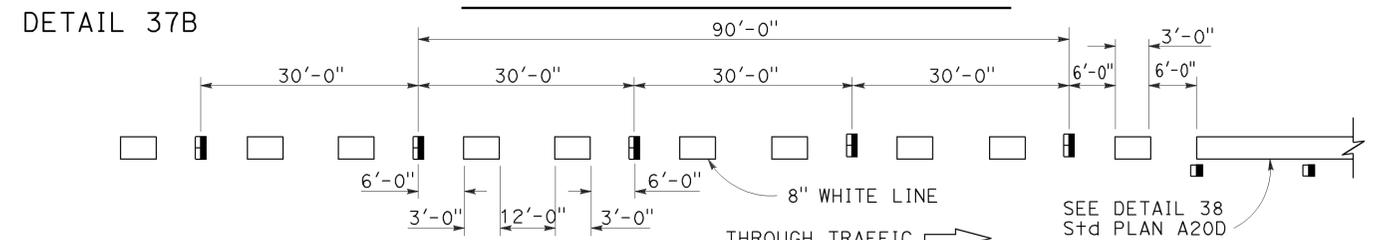
TO ACCOMPANY PLANS DATED 03-24-14

LANE DROP AT EXIT RAMP



* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

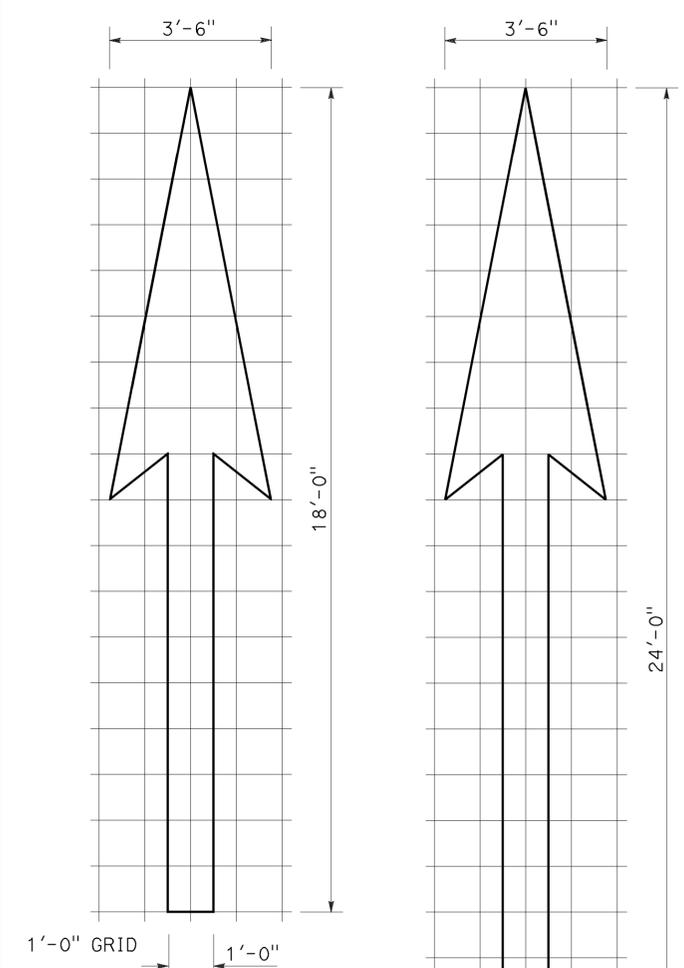
RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

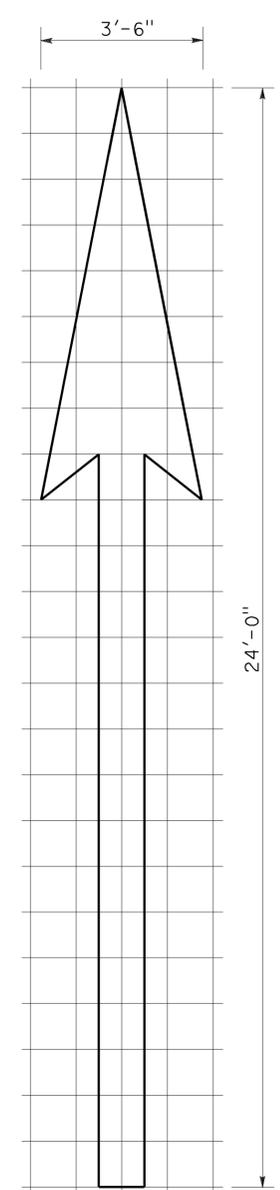
2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5 99,205	Var	11	27
<i>Roberta L. McLaughlin</i> REGISTERED CIVIL ENGINEER April 20, 2012 PLANS APPROVAL DATE <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
REGISTERED PROFESSIONAL ENGINEER Roberta L. McLaughlin No. C40375 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA					

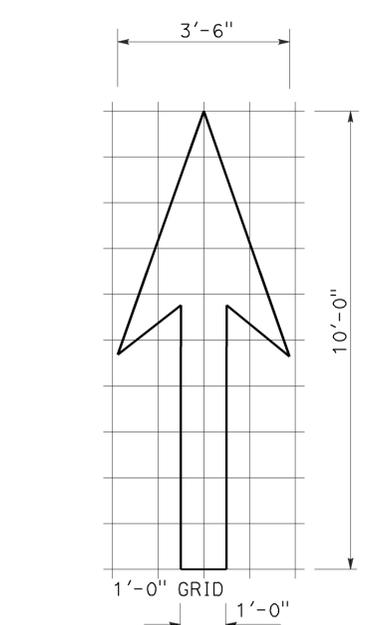
TO ACCOMPANY PLANS DATED 03-24-14



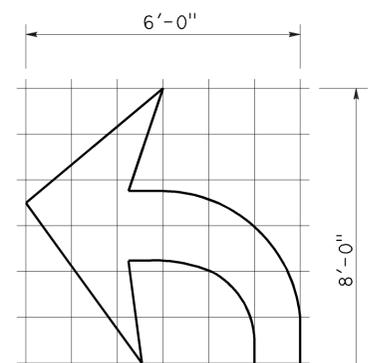
A=25 ft²
TYPE I 18'-0" ARROW



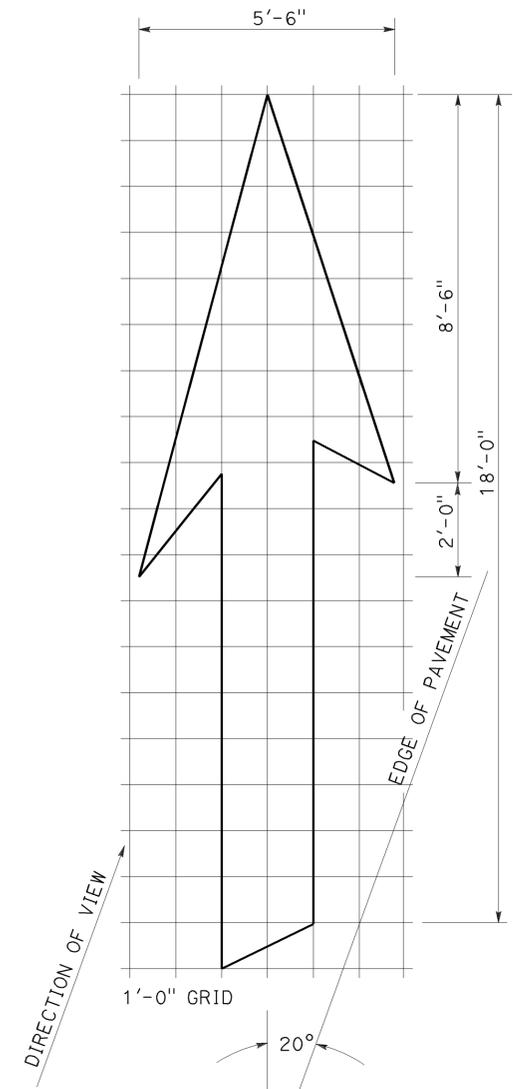
A=31 ft²
TYPE I 24'-0" ARROW



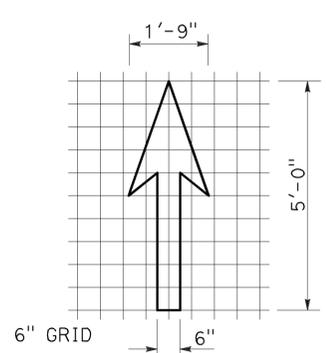
A=14 ft²
TYPE I 10'-0" ARROW



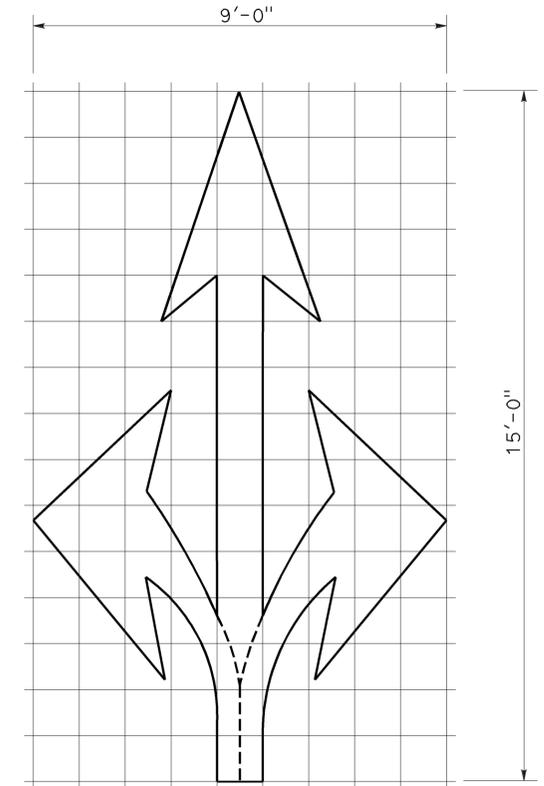
A=15 ft²
TYPE IV (L) ARROW
(For Type IV (R) arrow, use mirror image)



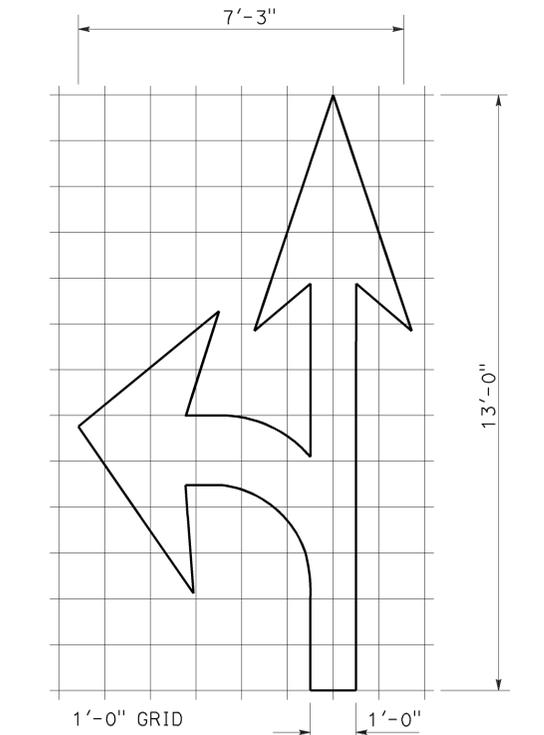
A=42 ft²
TYPE VI ARROW
Right lane drop arrow
(For left lane, use mirror image)



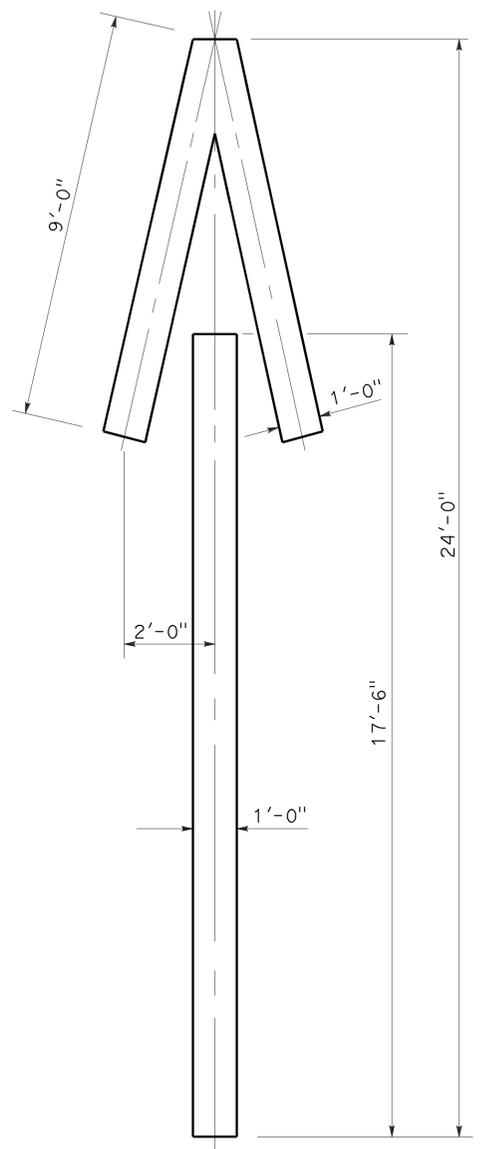
A=3.5 ft²
BIKE LANE ARROW



A=36 ft²
TYPE VIII ARROW



A=27 ft²
TYPE VII (L) ARROW
(For Type VII (R) arrow, use mirror image)



A=33 ft²
TYPE V ARROW

NOTE:
Minor variations in dimensions may be accepted by the Engineer.

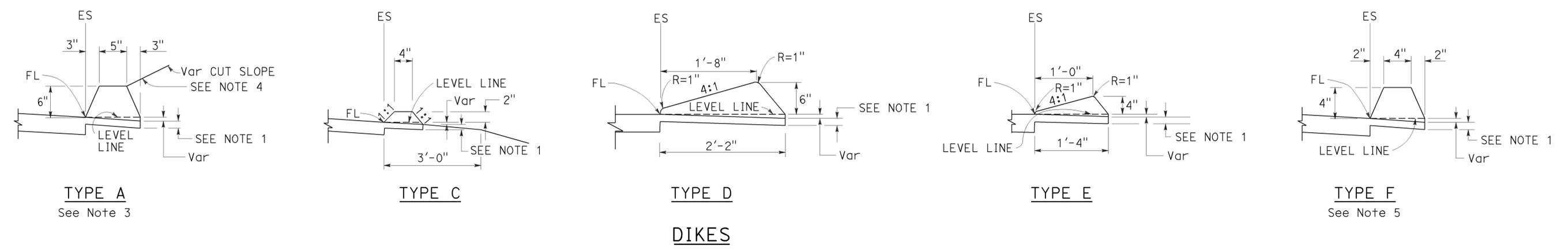
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

TO ACCOMPANY PLANS DATED 03-24-14



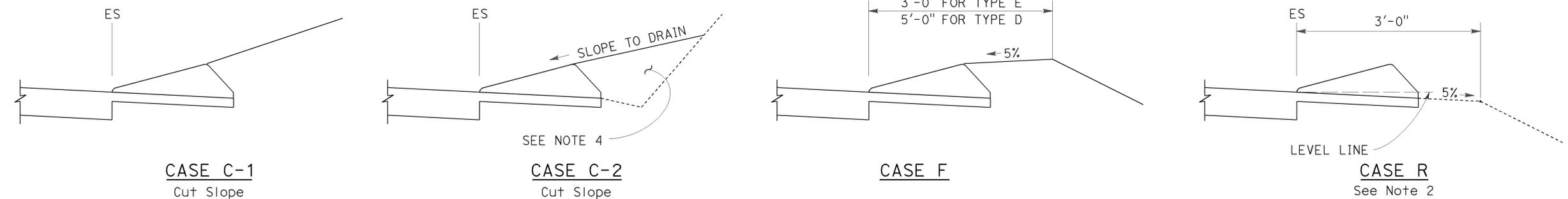
TYPE A
See Note 3

TYPE C

TYPE D

TYPE E

TYPE F
See Note 5



CASE C-1
Cut Slope

CASE C-2
Cut Slope

CASE F

CASE R
See Note 2

NOTES:

- For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
- Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
- Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
- Fill and compact with excavated material to top of dike.
- Use Type F dike, where dike is required with guard railing installations. See Revised Standard Plan RSP A77N4 for dike positioning details.

DIKE QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

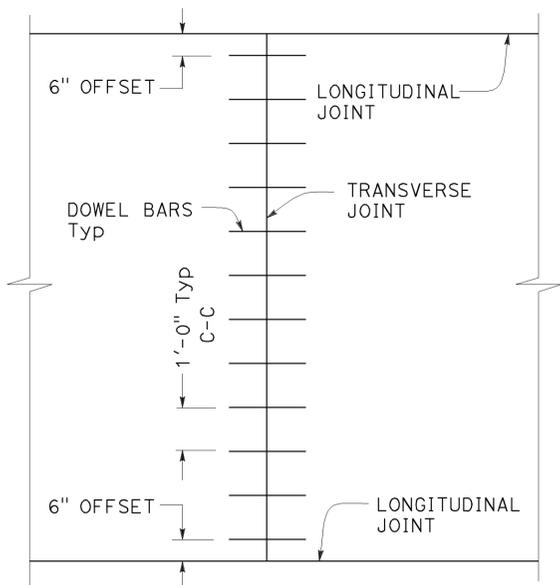
Quantities based on 5% cross slope.

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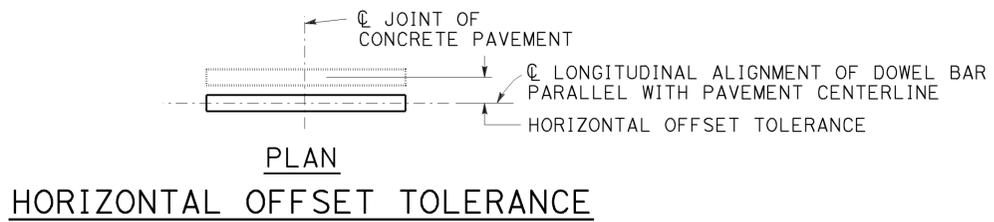
HOT MIX ASPHALT DIKES

NO SCALE

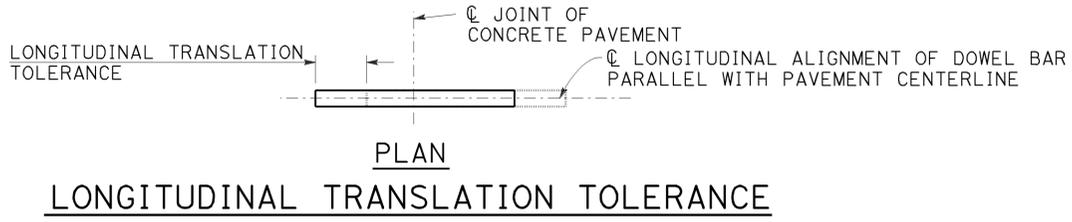
RSP A87B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87B DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.



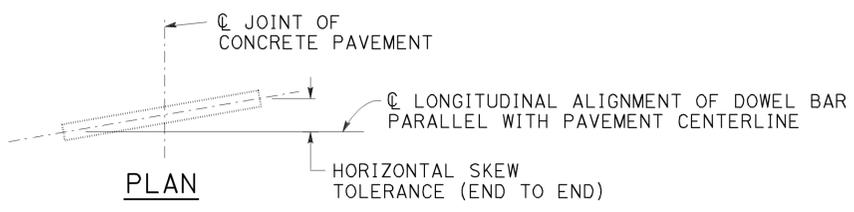
**TRANSVERSE JOINT
DOWEL BAR LAYOUT**



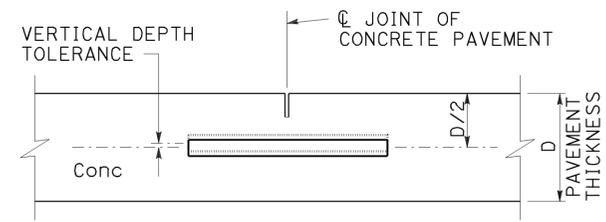
**PLAN
HORIZONTAL OFFSET TOLERANCE**



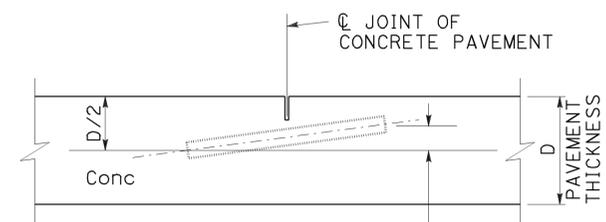
**PLAN
LONGITUDINAL TRANSLATION TOLERANCE**



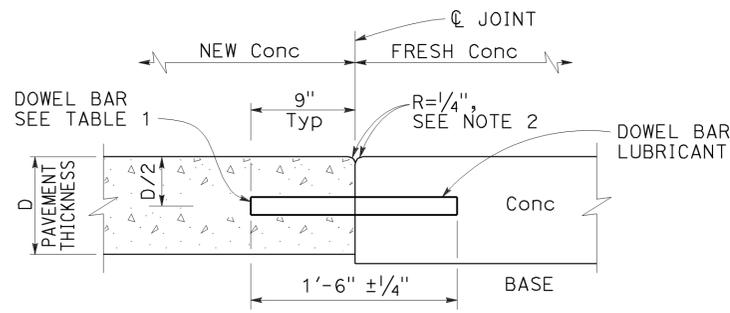
**PLAN
HORIZONTAL SKEW TOLERANCE**



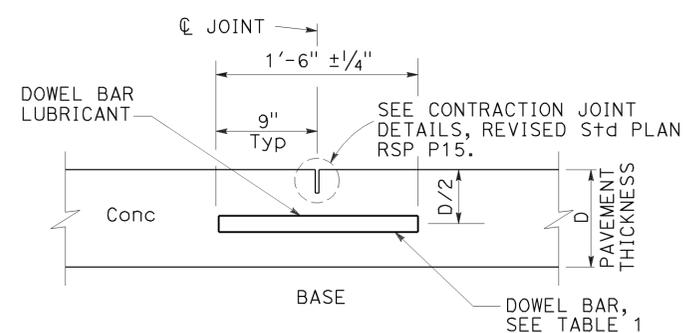
**ELEVATION
VERTICAL DEPTH TOLERANCE**



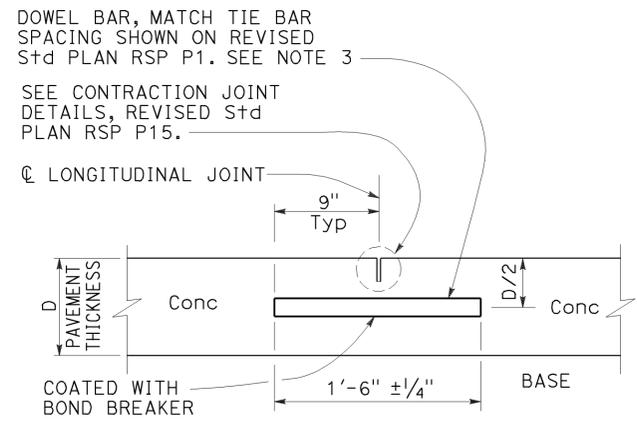
**ELEVATION
VERTICAL SKEW TOLERANCE**



**TRANSVERSE
CONSTRUCTION JOINT DETAIL**

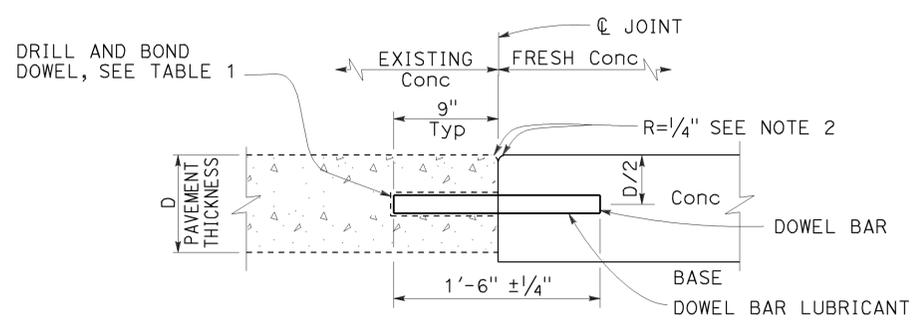


TRANSVERSE CONTRACTION JOINT

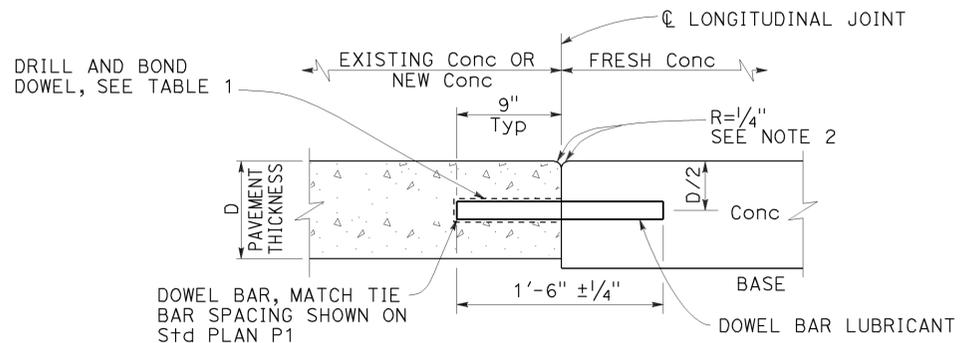


**LONGITUDINAL CONTRACTION
JOINT WITH DOWEL BARS**

See Revised Std Plan RSP P18



**TRANSVERSE CONSTRUCTION JOINT
FOR EXISTING CONCRETE PAVEMENT**



**LONGITUDINAL CONSTRUCTION JOINT
WITH DOWEL BARS**

See Revised Std Plan RSP P18

TO ACCOMPANY PLANS DATED 03-24-14

NOTES:

1. See Revised Standard Plan RSP P1 for typical dowel bar placement and locations.
2. Where fresh concrete pavement is placed against new concrete or existing concrete pavement, rounding the corner of the existing concrete pavement is not required.
3. May also use 3/4 inch Dia dowel bars 2'-4" ± 1/4" in length. Center the length of dowel bars at the centerline of longitudinal joint.

TABLE 1

DOWEL BAR DIAMETER TABLE			
PAVEMENT THICKNESS	0.65'	> 0.65' - 0.85'	> 0.85'
MINIMUM DOWEL * BAR DIAMETER	1"	1 1/4"	1 1/2"

* The drilled hole diameter must be 1/8" to 3/16" larger than the bar diameter.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT
DOWEL BAR
DETAILS**

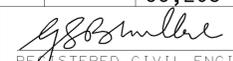
NO SCALE

RSP P10 DATED JULY 19, 2013 SUPERSEDES RSP P10 DATED APRIL 20, 2012 AND STANDARD PLAN P10 DATED MAY 20, 2011 - PAGE 131 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P10

2010 REVISED STANDARD PLAN RSP P10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5, 99,205	Var	14	24


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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

TO ACCOMPANY PLANS DATED 03-24-14

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
20	115	116	120	126
25	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
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

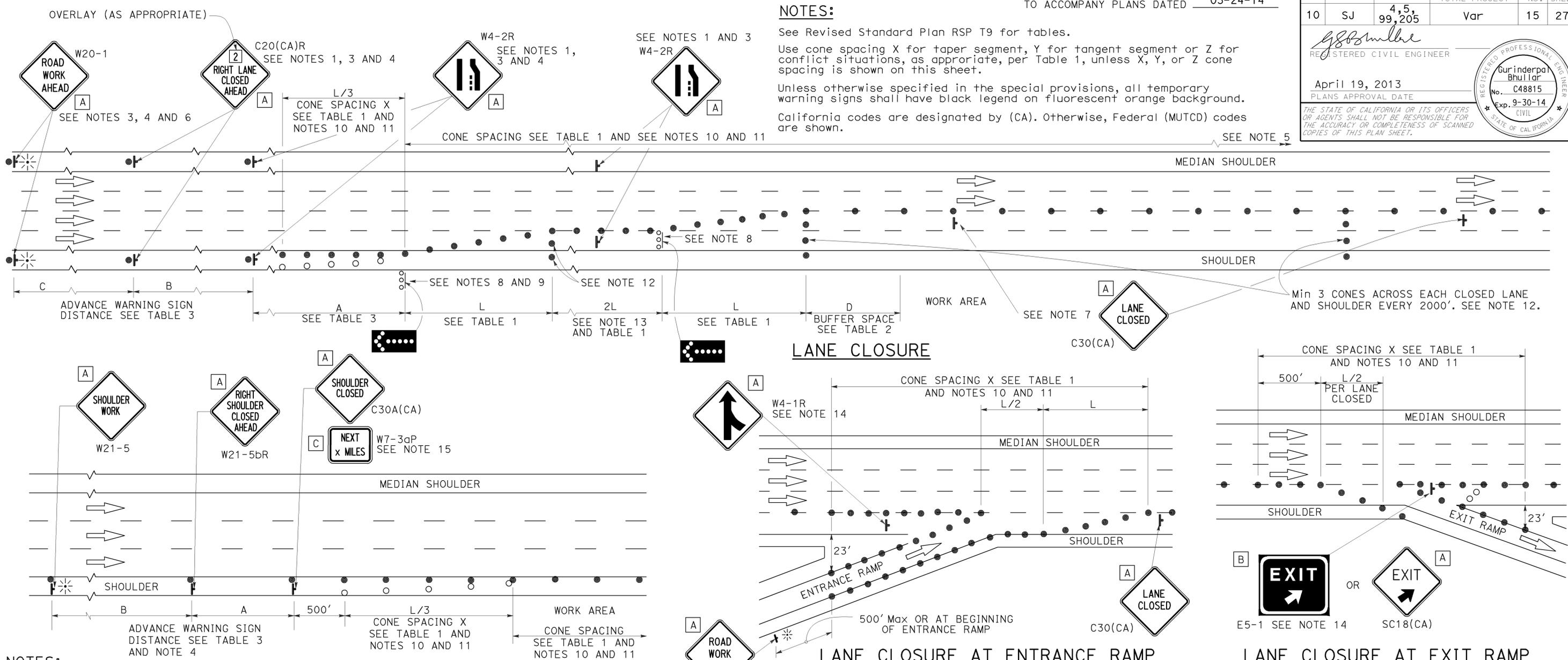
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5, 99,205	Var	15	27

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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

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



- NOTES:**
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
 - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 - Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 - Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA)L and W4-2L signs shall be used.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
- A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- ⬢ FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

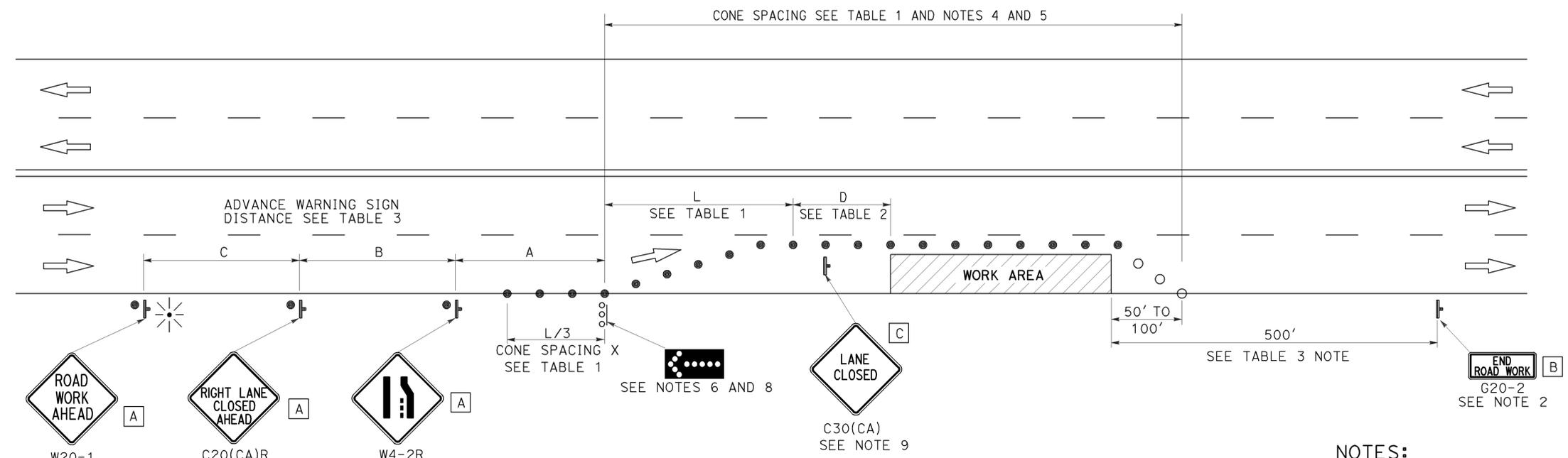
REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5, 99,205	Var	16	27

Registered Civil Engineer
 April 19, 2013
 PLANS APPROVAL DATE
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 03-24-14



TYPICAL LANE CLOSURE

NOTES:

See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
 California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

NOTES:

- 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.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow sign shall be either Type I or Type II.
- 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.
- 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 the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- 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.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS**

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11
 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 36" x 36"
- D 48" x 36"

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON

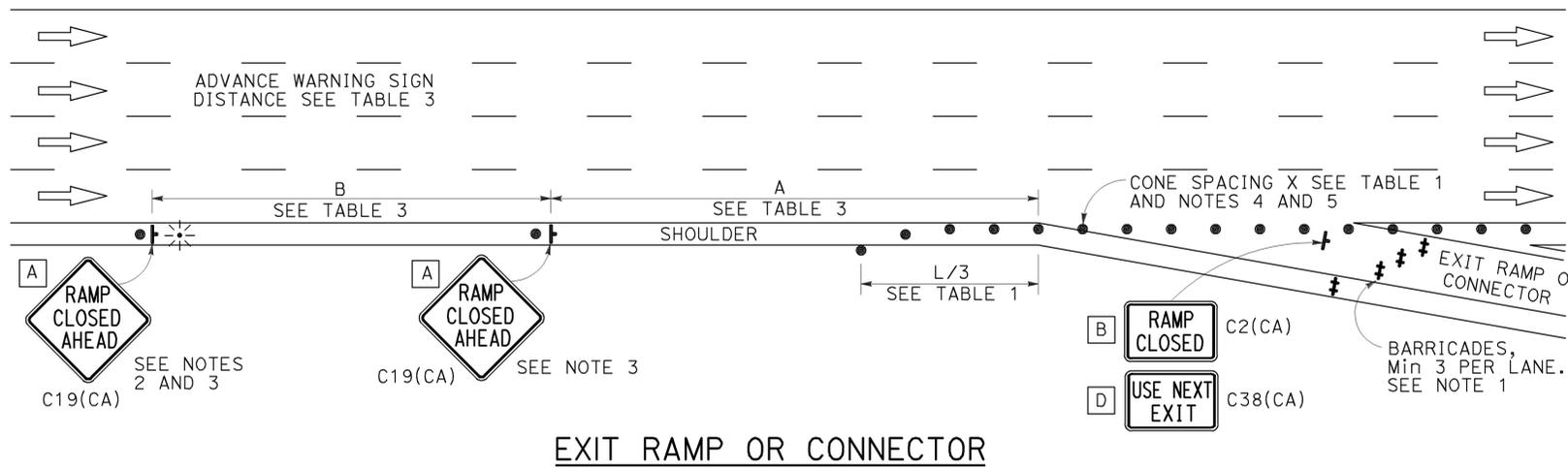
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5, 99,205	Var	17	27

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

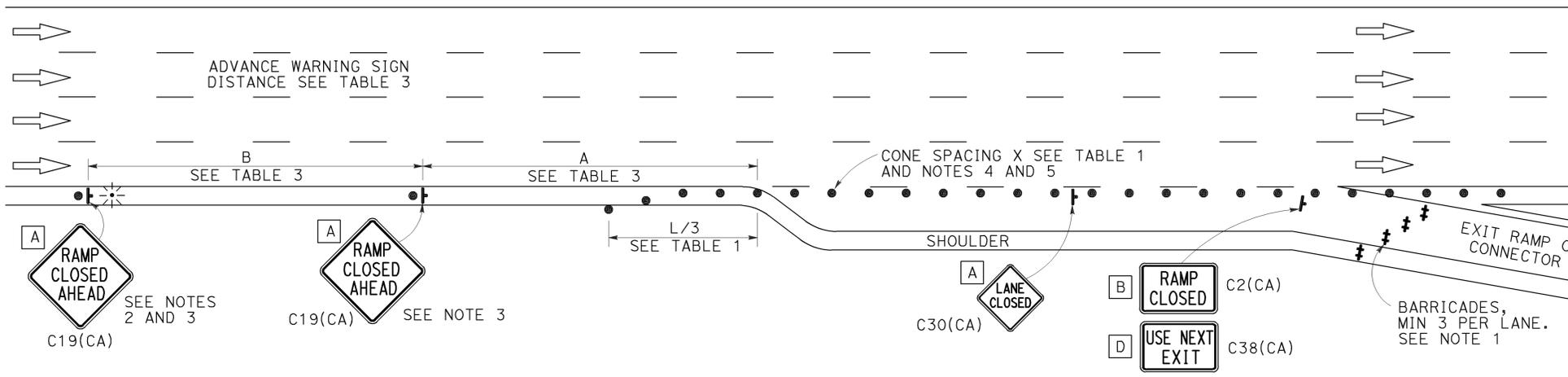
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

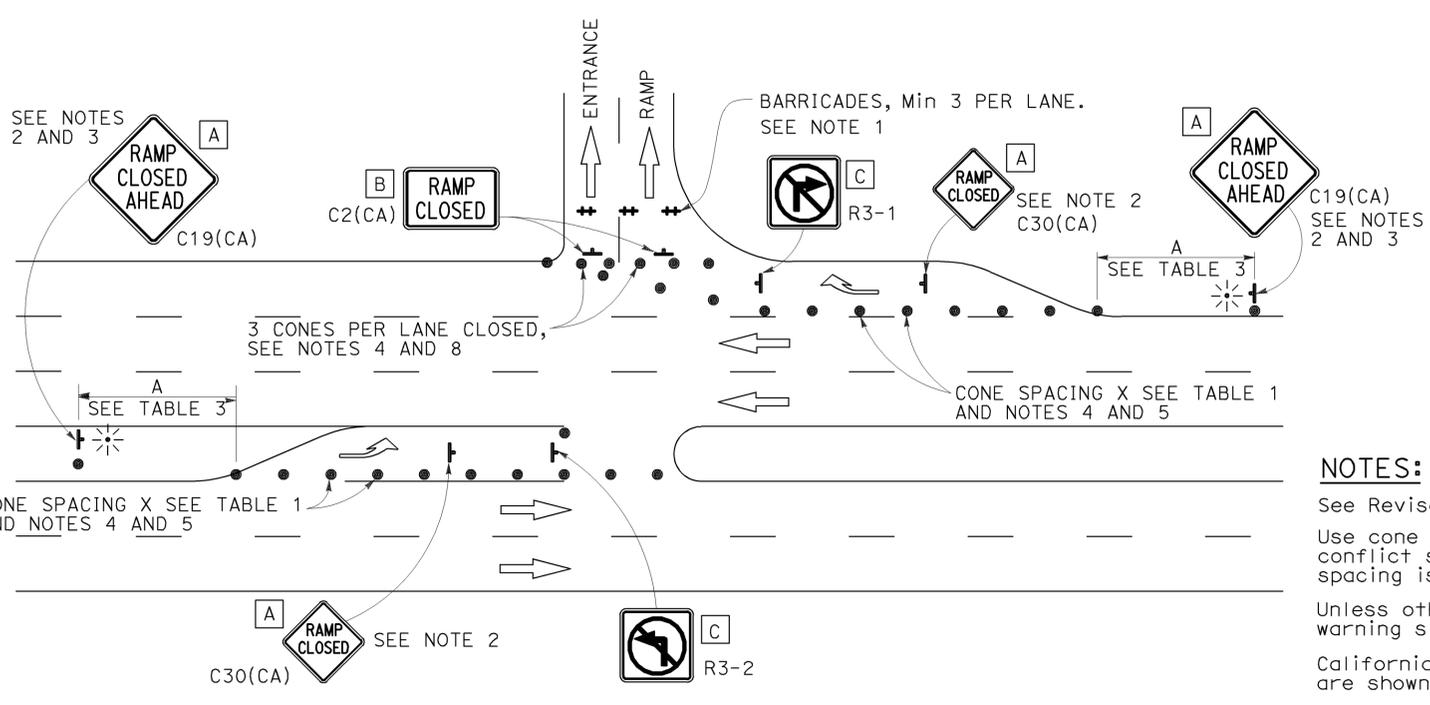
TO ACCOMPANY PLANS DATED 03-24-14



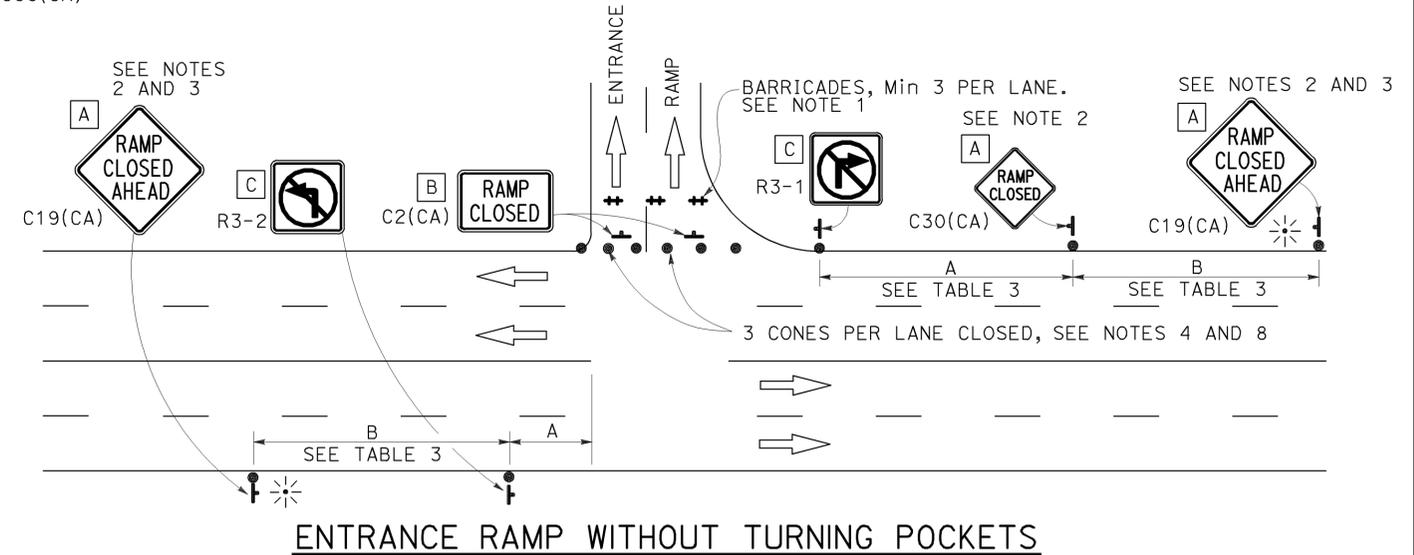
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

1. See Revised Standard Plan RSP T9 for tables.
2. Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
3. Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
4. California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

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. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
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" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

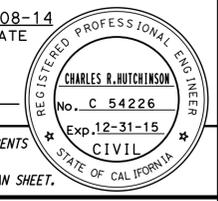
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.
REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

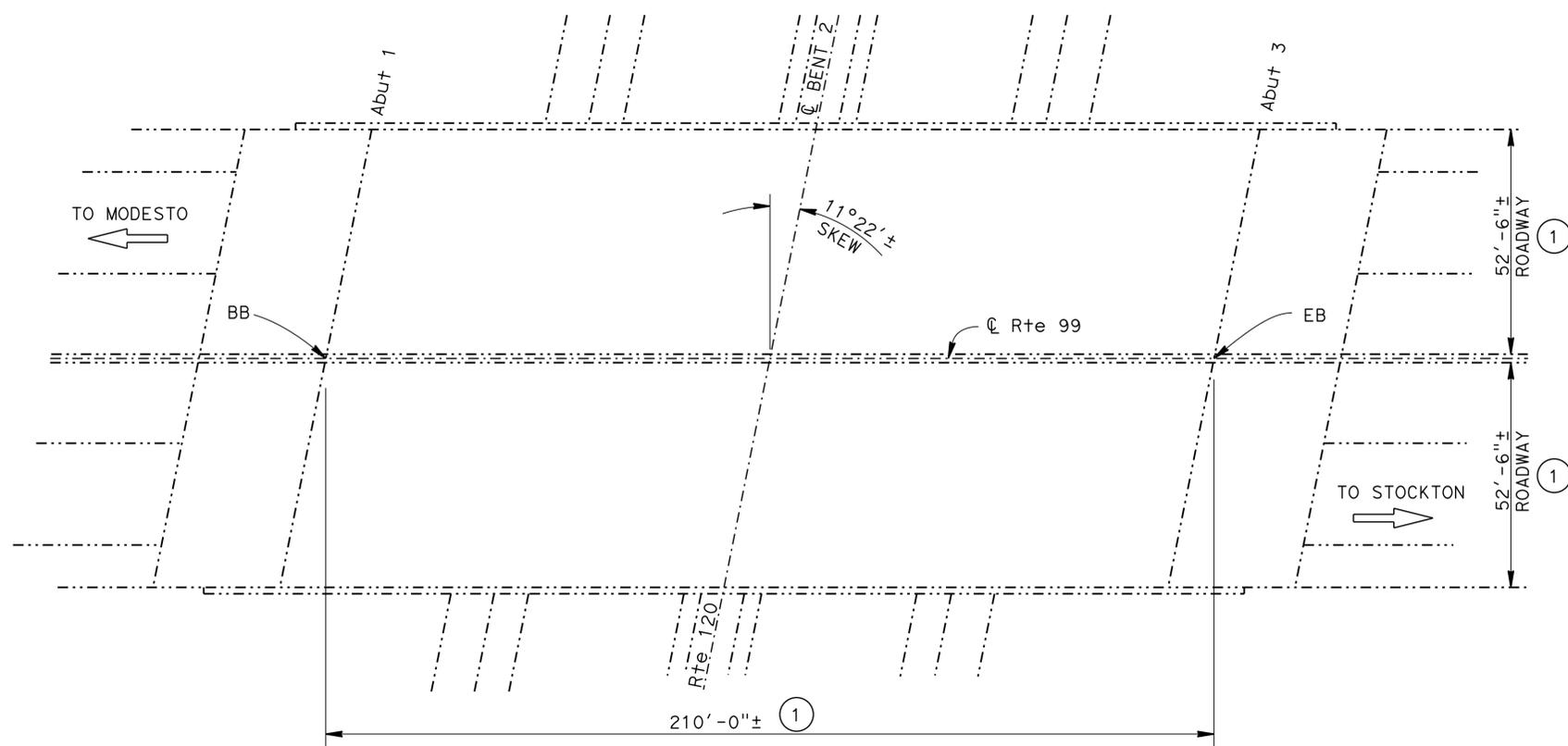
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4, 5, 99, 205	Var	18	27

Charles R. Hutchinson 01-08-14
 REGISTERED CIVIL ENGINEER DATE
 03-24-14
 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.



Notes:

- Indicates existing structure.
- ① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Remove unsound concrete and patch with rapid setting concrete prior to bridge deck treatment. For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS" sheet.



ROUTE 99/120 SEPARATION
 BR NO. 29-0125, RTE 99, SJ, PM 6.65
 1" = 20'

ROUTE 99/120 SEPARATION BR NO. 29-0125

QUANTITIES

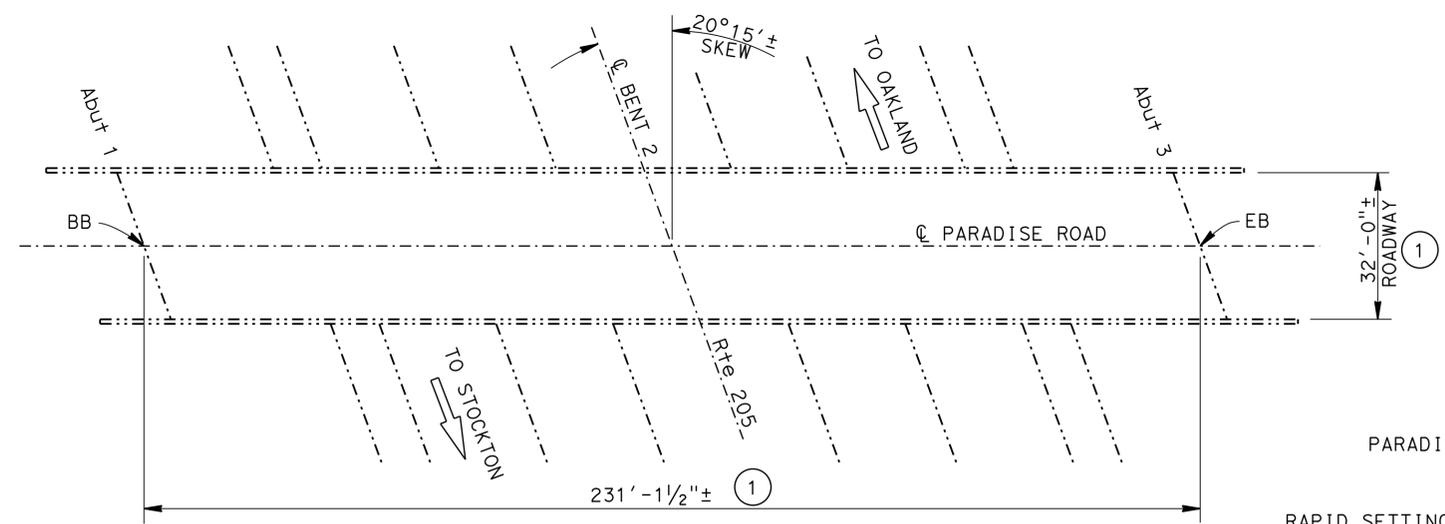
RAPID SETTING CONCRETE (PATCH)	110	CF
REMOVE UNSOUND CONCRETE	110	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	22,060	SQFT
TREAT BRIDGE DECK	22,060	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	245	GAL

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
RSP P10	CONCRETE PAVEMENT DOWEL BAR DETAILS

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
10	STRUCTURE APPROACH TYPE R(30D)



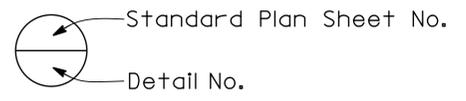
PARADISE ROAD OVERCROSSING
 BR NO. 29-0181, RTE 205, SJ, PM R9.61
 1" = 20'

PARADISE ROAD OC BR NO. 29-0181

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	37	CF
REMOVE UNSOUND CONCRETE	37	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,395	SQFT
TREAT BRIDGE DECK	7,395	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	82	GAL

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



	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 4, 5, 99, & 205 BRIDGES GENERAL PLAN NO. 1
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	SPECIFICATIONS	BY Tina Chen	CHECKED Lien Vu			POST MILE	VARIES	
QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3488	PROJECT NUMBER & PHASE: 1012000027 1	CONTRACT NUMBER: 10-0W6904	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 10-26-13 12-06-13 12-30-13 01-08-14 02-03-14	SHEET 1 OF 10

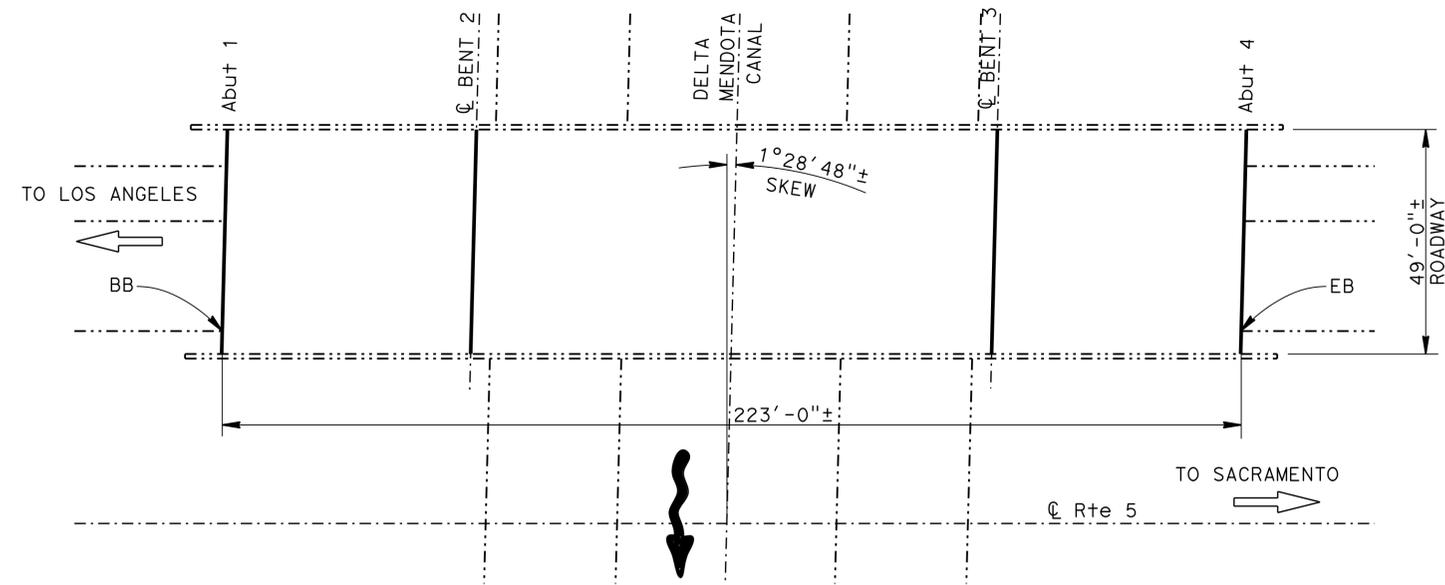
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USERNAME => s123936 DATE PLOTTED => 21-MAR-2014 TIME PLOTTED => 09:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4, 5, 99, 205	Var	19	27

Charles R. Hutchinson 01-08-14
 REGISTERED CIVIL ENGINEER DATE
 03-24-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA



DELTA-MENDOTA CANAL
 BR NO. 29-0205L, RTE 5, SJ, PM 3.27
 1" = 20'

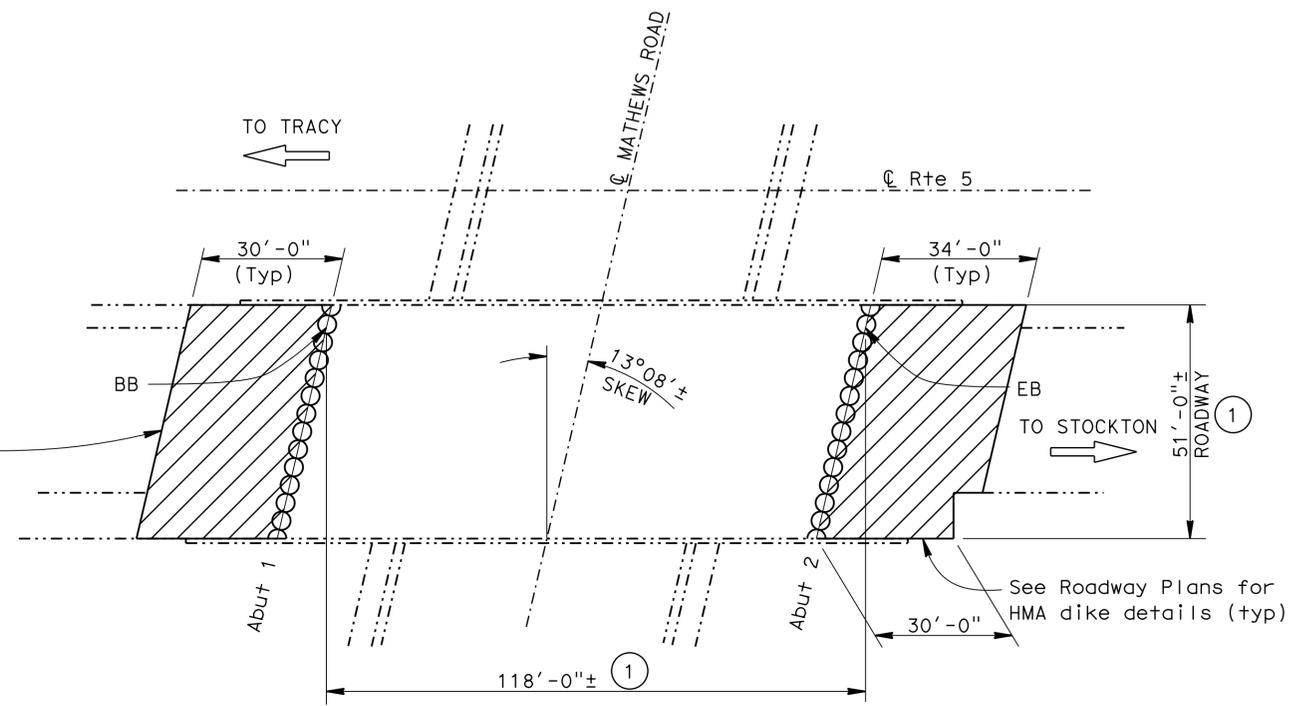
- Notes:** (Apply to this sheet only)
- Indicates existing structure.
 - Indicates location of clean expansion joint and new joint seal. For details, see "JOINT SEAL DETAILS" sheet.
 - ○ ○ ○ ○ Indicates limits of new joint seal and paving notch extension. For details, see "JOINT SEAL DETAILS" sheet.
 - ① Indicates limits of remove epoxy chip seal, prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Remove unsound concrete and patch with rapid setting concrete prior to bridge deck treatment. For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS" sheet.
 - ▨ Indicates limits of remove existing approach pavement and place new Structure Approach Type R(30D). For details, see "STRUCTURE APPROACH TYPE R(30D)" sheet.

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

DELTA-MENDOTA CANAL BR NO. 29-0205L

QUANTITIES

CLEAN EXPANSION JOINT	197	LF
JOINT SEAL (MR 1/2")	98	LF
JOINT SEAL (MR 1")	49	LF
JOINT SEAL (MR 1 1/2")	49	LF



MATHEWS ROAD UNDERCROSSING
 BR NO. 29-0218R, RTE 5, SJ, PM R21.44
 1" = 20'

MATHEWS ROAD UC BR NO. 29-0218R

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	30	CF
REMOVE UNSOUND CONCRETE	30	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,020	SQFT
TREAT BRIDGE DECK	6,020	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	67	GAL
REMOVE EPOXY CHIP SEAL	6,020	SQFT
AGGREGATE BASE (APPROACH SLAB)	12	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	119	CY
PAVING NOTCH EXTENSION	81	CF
JOINT SEAL (MR 1/2")	106	LF

 01-08-14 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 4, 5, 99, & 205 BRIDGES GENERAL PLAN NO. 2
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	SPECIFICATIONS	BY Tina Chen	PLANS AND SPECIFICATIONS COMPARED			LINKED	
QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong				LINKED		VARIES		

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488	PROJECT NUMBER & PHASE: 1012000027 1	CONTRACT NUMBER: 10-0W6904	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 12-08-13 12-30-13 01-08-14 01-30-14 3-13-14	SHEET	OF
						2	10	

FILE => 10-0w6901_02_gp2.dgn

USERNAME => s123936 DATE PLOTTED => 21-MAR-2014 TIME PLOTTED => 09:05

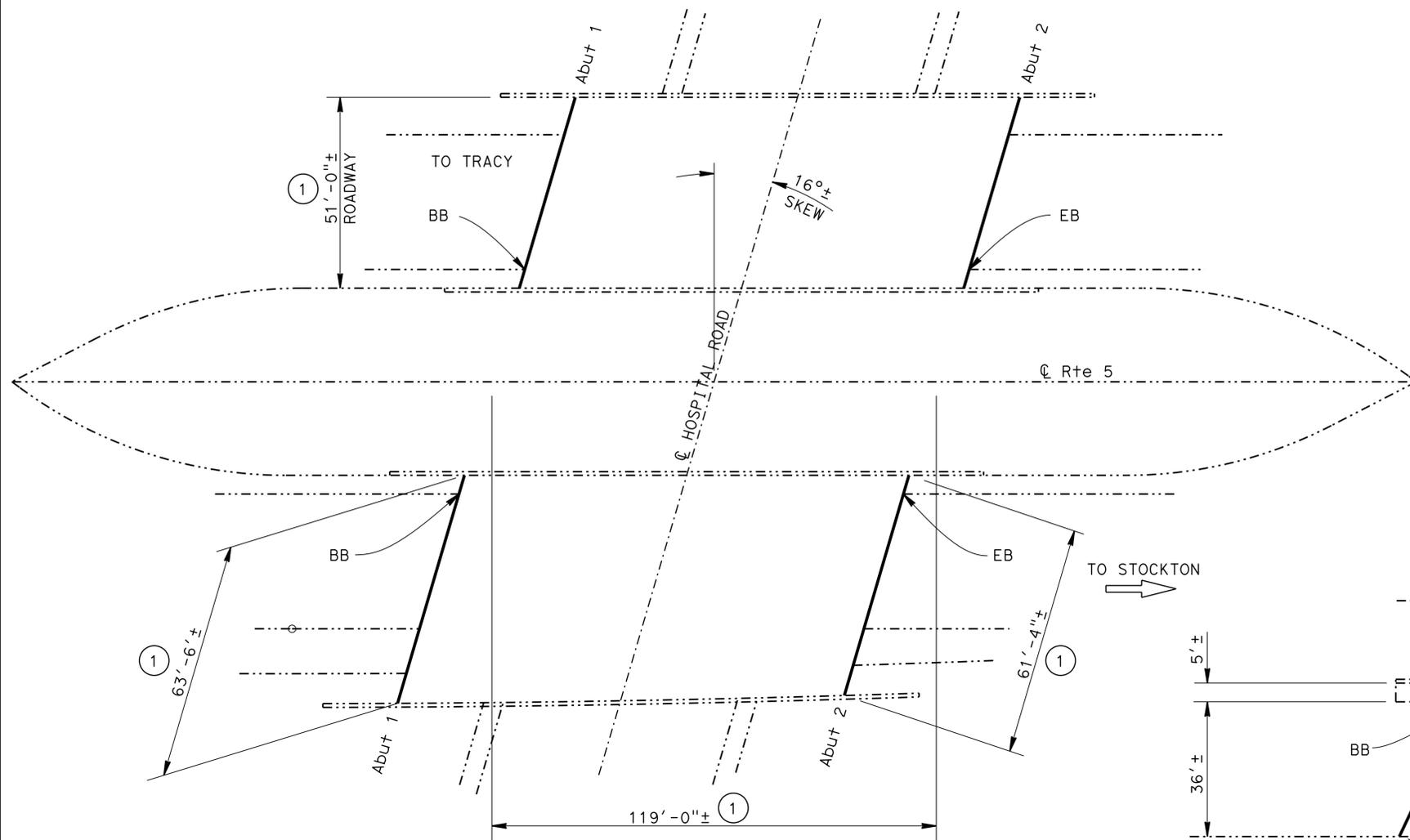
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4, 5, 99, 205	Var	20	27

Charles R. Hutchinson 01-08-14
 REGISTERED CIVIL ENGINEER DATE

03-24-14
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA



HOSPITAL ROAD UNDERCROSSING
 BR NO. 29-0219L/R, RTE 5, SJ, PM R21.70
 1" = 20'

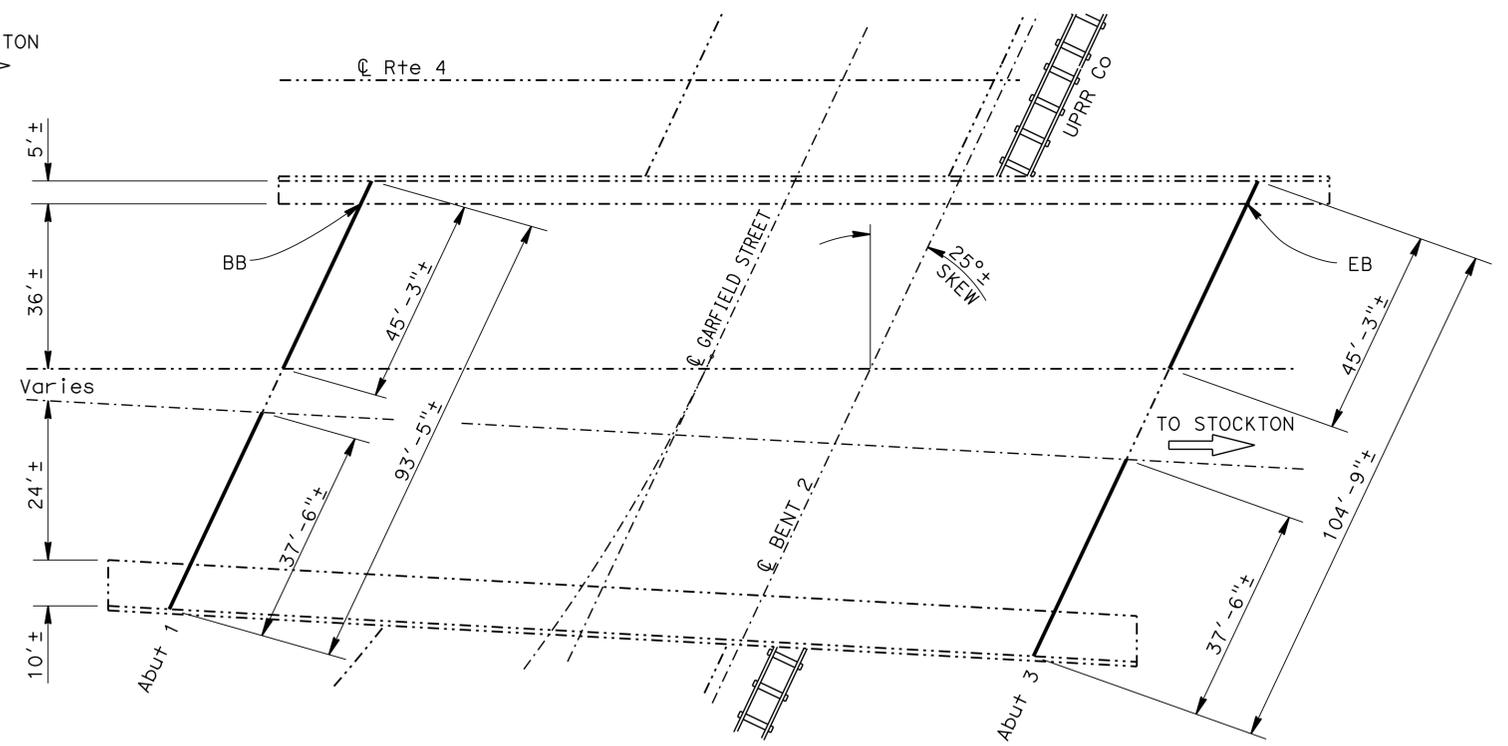
- Notes:**
- Indicates existing structure.
 - Indicates location of clean expansion joint and new joint seal. For details, see "JOINT SEAL DETAILS" sheet.
 - ① Indicates limits of remove epoxy chip seal, prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Remove unsound concrete and patch with rapid setting concrete prior to bridge deck treatment. For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS" sheet.

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

HOSPITAL ROAD UC BR NO. 29-0219L/R

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	67	CF
REMOVE UNSOUND CONCRETE	67	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	13,500	SQFT
TREAT BRIDGE DECK	13,500	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	150	GAL
REMOVE EPOXY CHIP SEAL	13,500	SQFT
CLEAN EXPANSION JOINT	236	LF
JOINT SEAL (MR 1/2")	236	LF



GARFIELD STREET OVERHEAD
 BR NO. 29-0240R, RTE 4, SJ, PM R15.67
 1" = 20'

GARFIELD STREET OH BR NO. 29-0240R

QUANTITIES

CLEAN EXPANSION JOINT	166	LF
JOINT SEAL (MR 1")	166	LF

 01-08-14 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 4, 5, 99, & 205 BRIDGES GENERAL PLAN NO. 3
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	SPECIFICATIONS	BY Tina Chen	CHECKED Lien Vu			POST MILE	VARIES	
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong	PLANS AND SPECIFICATIONS COMPARED		CHECKED Lien Vu			VARIES		

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488 PROJECT NUMBER & PHASE: 1012000027 1 CONTRACT NUMBER: 10-0W6904 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
12-30-13 01-08-14 01-30-14 12-08-13	3	10

FILE => 10-0w6901_03_gp3.dgn

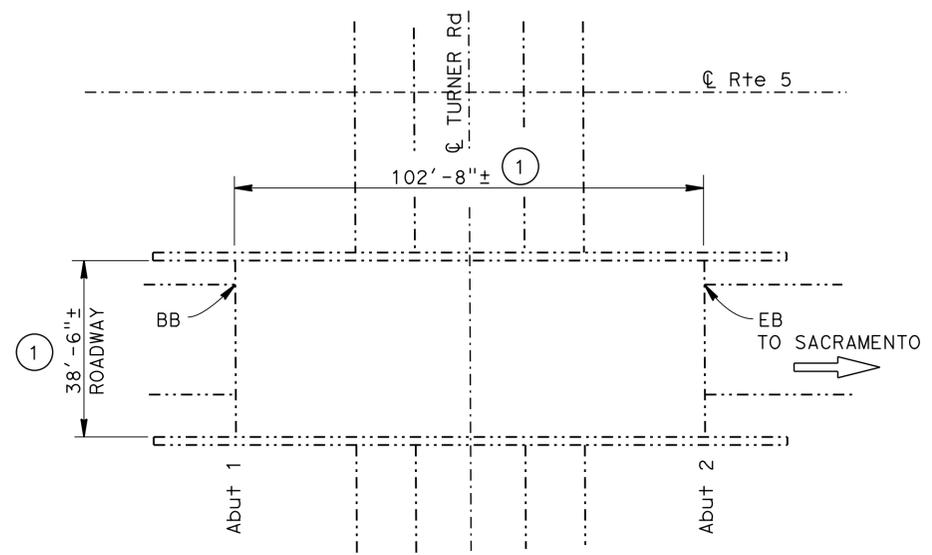
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4, 5, 99, 205	Var	21	27

Charles R. Hutchinson 01-08-14
 REGISTERED CIVIL ENGINEER DATE
 03-24-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA

Notes:

- Indicates existing structure.
- ① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Remove unsound concrete and patch with rapid setting concrete prior to bridge deck treatment. For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS" sheet.



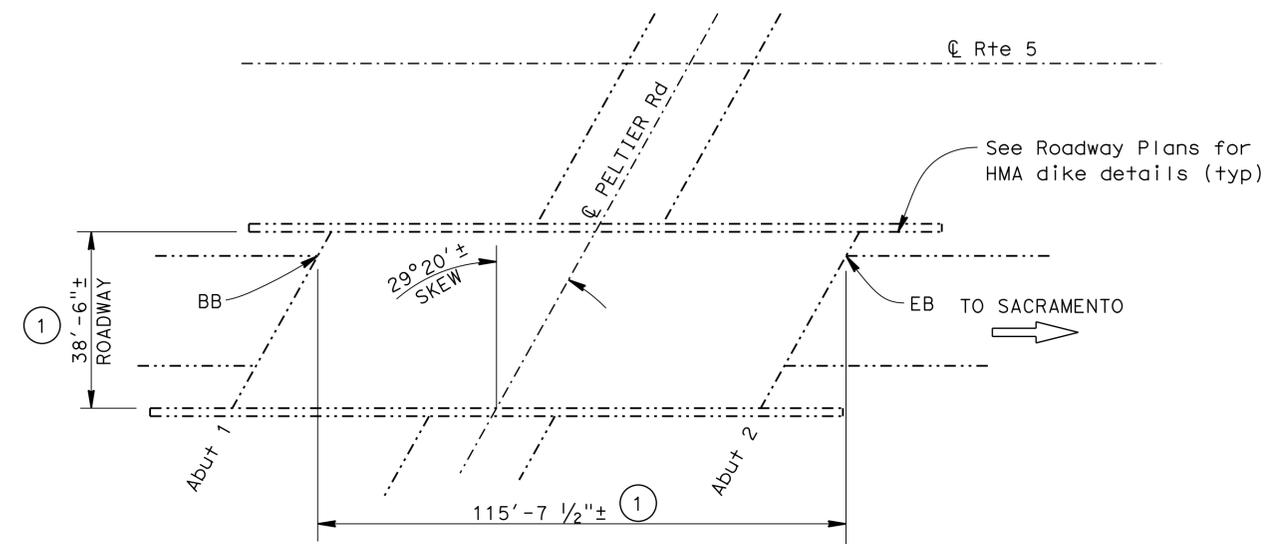
TURNER ROAD UNDERCROSSING

BR NO. 29-0245R, RTE 5, SJ, PM 41.66
 1" = 20'

TURNER ROAD UC BR NO. 29-0245R

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	20	CF
REMOVE UNSOUND CONCRETE	20	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,950	SQFT
TREAT BRIDGE DECK	3,950	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	44	GAL



PELTIER ROAD UNDERCROSSING

BR NO. 29-0246R, RTE 5, SJ, PM 44.71
 1" = 20'

PELTIER ROAD UC BR NO. 29-0246R

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	22	CF
REMOVE UNSOUND CONCRETE	22	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,450	SQFT
TREAT BRIDGE DECK	4,450	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	50	GAL

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

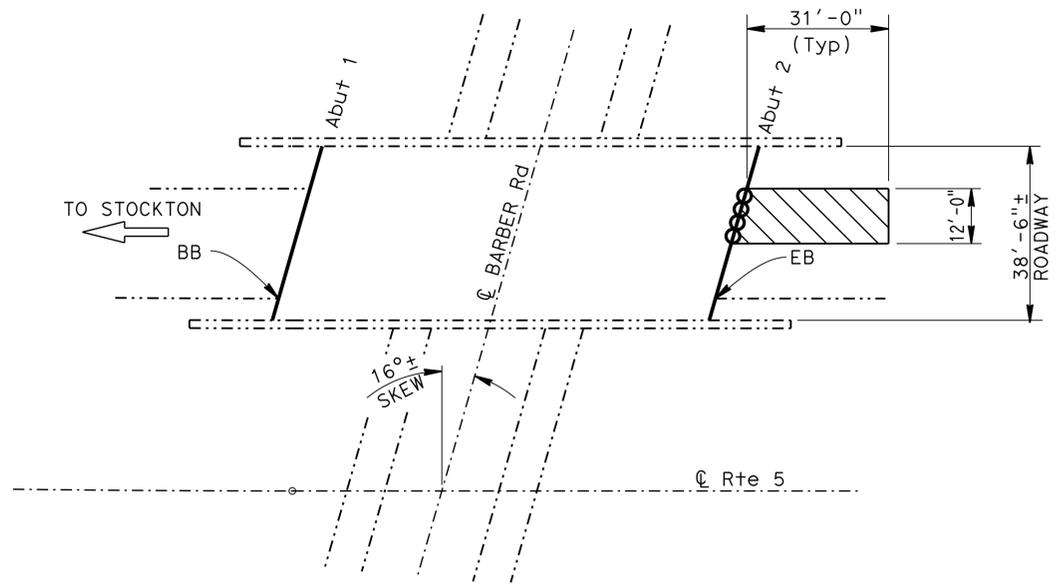
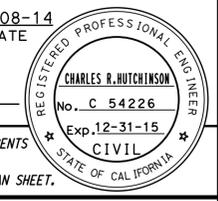
01-08-14 DESIGN ENGINEER	DESIGN BY Charles Hutchinson CHECKED Khanh Truong	LAYOUT BY Trung Lam CHECKED Charles Hutchinson	SPECIFICATIONS BY Tina Chen CHECKED Lien Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS POST MILE VARIES	ROUTE 4, 5, 99, & 205 BRIDGES GENERAL PLAN NO. 4
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 1012000027 1 CONTRACT NUMBER: 10-0W6904	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 12-06-13, 12-30-13, 01-08-14, 01-30-14	SHEET 4 OF 10

FILE => 10-0w6901_04_gp4.dgn

USERNAME => s123936 DATE PLOTTED => 21-MAR-2014 TIME PLOTTED => 09:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4, 5, 99, 205	Var	22	27

Charles R. Hutchinson 01-08-14
 REGISTERED CIVIL ENGINEER DATE
 03-24-14
 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.



BARBER ROAD UNDERCROSSING

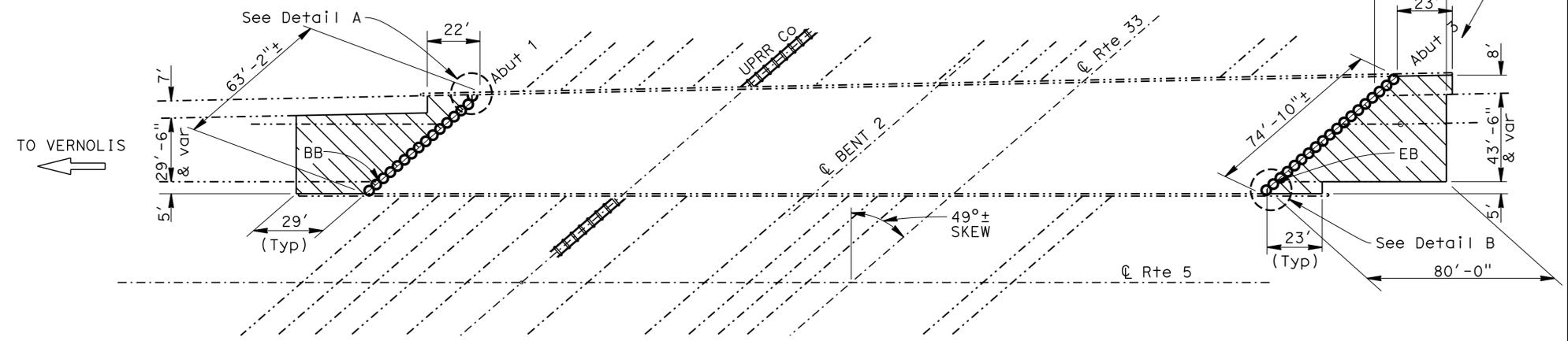
BR NO. 29-0248L, RTE 5, SJ, PM 49.18
1" = 20'

BARBER ROAD UC BR NO. 29-0248L

QUANTITIES

AGGREGATE BASE (APPROACH SLAB)	1	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	14	CY
PAVING NOTCH EXTENSION	8	CF
CLEAN EXPANSION JOINT	68	LF
JOINT SEAL (MR 1")	80	LF

- Notes:** (Apply to this sheet only)
- Indicates existing structure.
 - Indicates location of clean expansion joint and new joint seal. For details, see "JOINT SEAL DETAILS" sheet.
 - ○ ○ ○ Indicates limits of new joint seal and new paving notch extension. For details, see "JOINT SEAL DETAILS" sheet.
 - ▨ Indicates limits of remove existing approach pavement and place new Structure Approach Type R(30D). For details, see "STRUCTURE APPROACH TYPE R(30D)" sheet.



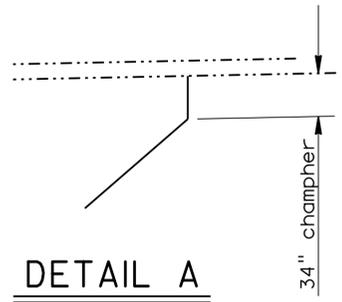
ROUTE 5/33 SEPARATION & OVERHEAD

BR NO. 29-0260L, RTE 5, SJ, PM 6.41
1" = 30'

ROUTE 5/33 SEP & OH BR NO. 29-0260L

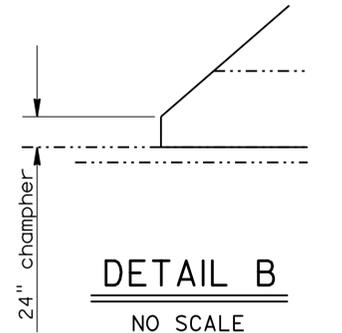
QUANTITIES

AGGREGATE BASE (APPROACH SLAB)	16	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	160	CY
PAVING NOTCH EXTENSION	103	CF
JOINT SEAL (MR 1 1/2")	140	LF



DETAIL A

NO SCALE



DETAIL B

NO SCALE

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

 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 4, 5, 99, & 205 BRIDGES GENERAL PLAN NO. 5						
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	SPECIFICATIONS	BY Tina Chen	CHECKED Lien Vu			POST MILE	VARIES							
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong				UNIT: 3488	PROJECT NUMBER & PHASE: 1012000027 1	CONTRACT NUMBER: 10-0W6904	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th>REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>12-06-13 12-30-13 01-08-14 01-30-14 3-13-14</td> <td>5</td> <td>10</td> </tr> </table>	REVISION DATES	SHEET	OF	12-06-13 12-30-13 01-08-14 01-30-14 3-13-14	5	10
REVISION DATES	SHEET	OF															
12-06-13 12-30-13 01-08-14 01-30-14 3-13-14	5	10															

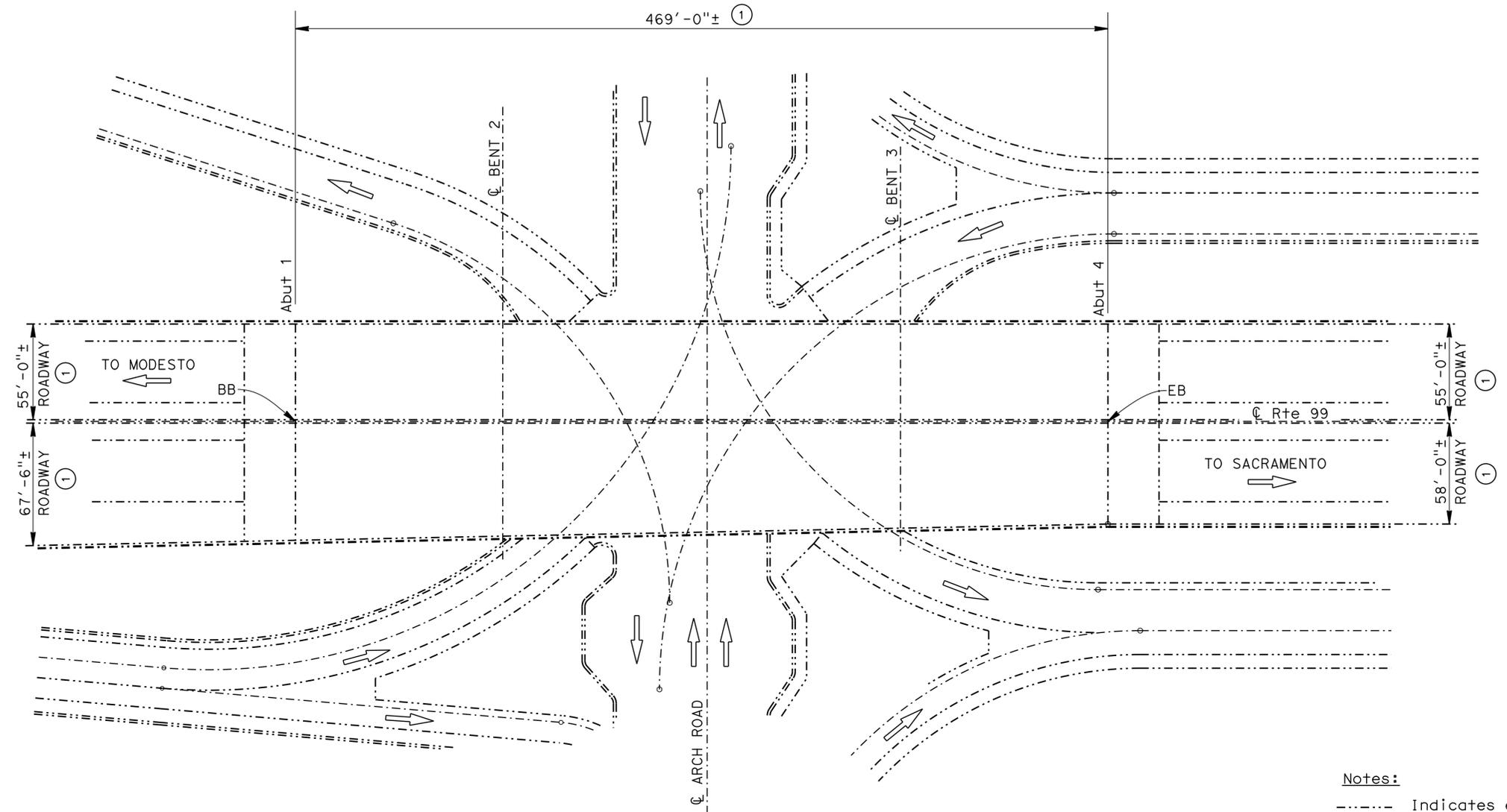
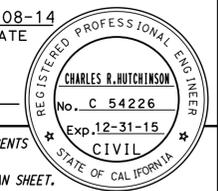
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

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

FILE => 10-0w6901_05_gp5.dgn

USERNAME => s123936 DATE PLOTTED => 21-MAR-2014 TIME PLOTTED => 09:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4, 5, 99, 205	Var	23	27
<i>Charles R. Hutchinson</i> REGISTERED CIVIL ENGINEER DATE 01-08-14			03-24-14 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.					



ARCH ROAD UNDERCROSSING

BR NO. 29-0316, RTE 99, SJ, PM 14.61
1"=40'



ARCH ROAD UC BR NO. 29-0316 QUANTITIES

RAPID SETTING CONCRETE (PATCH)	277	CF
REMOVE UNSOUND CONCRETE	277	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	55,340	SQFT
TREAT BRIDGE DECK	55,340	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	615	GAL

Notes:

----- Indicates existing structure.

① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Remove unsound concrete and patch with rapid setting concrete prior to bridge deck treatment. For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS" sheet.

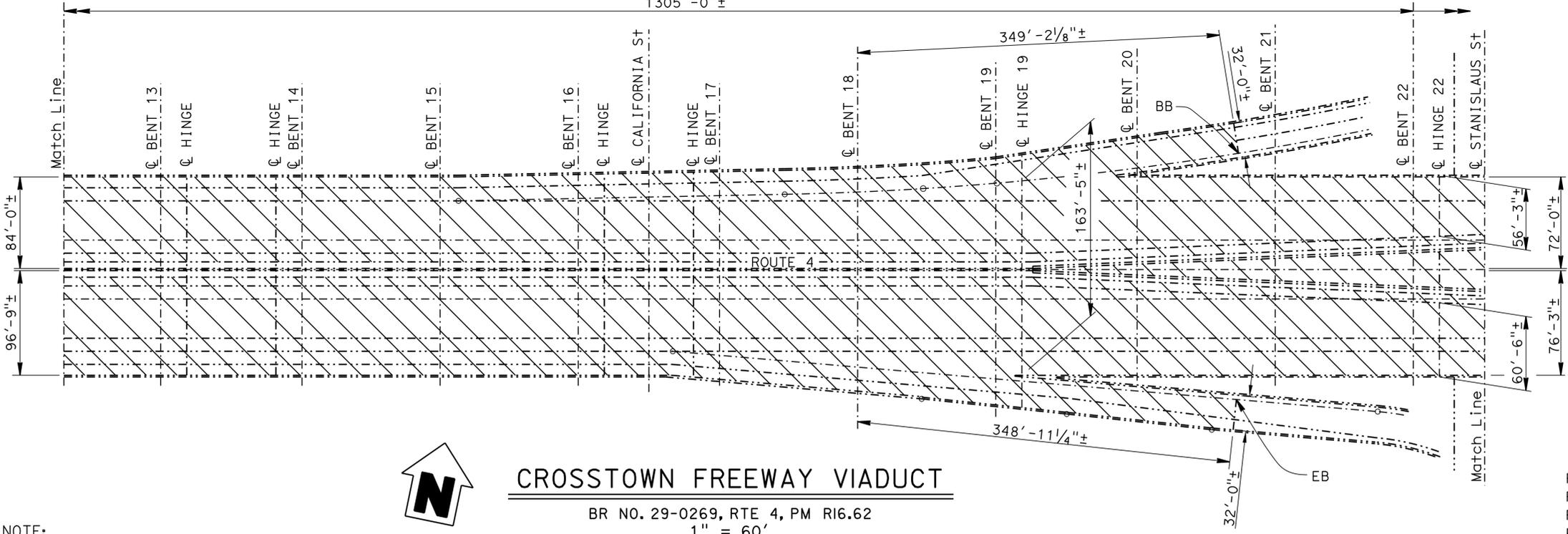
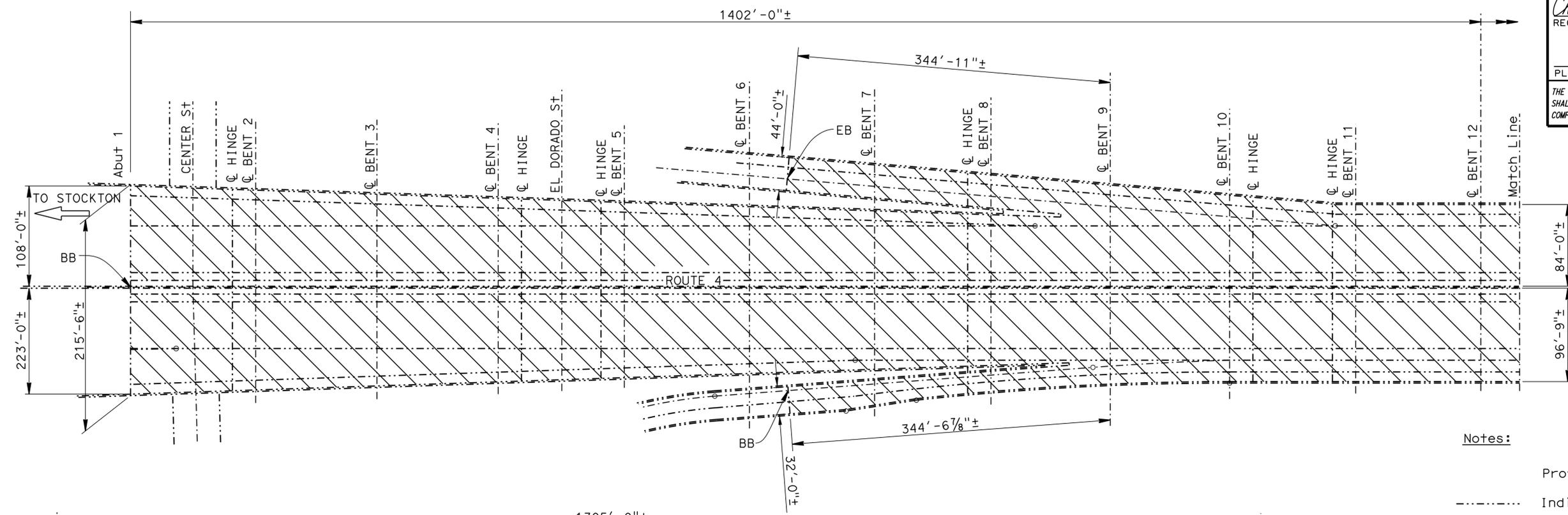
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 01-08-14 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 4, 5, 99, & 205 BRIDGES GENERAL PLAN NO. 6			
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	SPECIFICATIONS	BY	PLANS AND SPECIFICATIONS COMPARED			POST MILE				
QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong					14.61						
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 1012000027 1	CONTRACT NUMBER: 10-0W6904	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 6 OF 10

USERNAME => s123936 DATE PLOTTED => 21-MAR-2014 TIME PLOTTED => 09:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4, 5, 99, 205	Var	24	27

Charles R. Hutchinson 01-08-13
 REGISTERED CIVIL ENGINEER DATE
 03-24-14
 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.



- Notes:**
- Protect all existing conduit.
 - Indicates existing structure.
 - Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Remove unsound concrete and patch with rapid setting concrete prior to bridge deck treatment. For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS" sheet.



CROSTOWN FREEWAY VIADUCT
 BR NO. 29-0269, RTE 4, PM RI6.62
 1" = 60'

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

CROSTOWN FREEWAY VIADUCT BR NO. 29-0269	
QUANTITIES	
	LUMP SUM
PUBLIC SAFETY PLAN	
RAPID SETTING CONCRETE (PATCH)	1,930 CF
REMOVE UNSOUND CONCRETE	1,930 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	772,100 SQFT
TREAT BRIDGE DECK	772,100 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	8,600 GAL

 01-08-13 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 4, 5, 99, & 205 BRIDGES GENERAL PLAN NO. 7
	DETAILS	BY Trung Lam	CHECKED Khanh Truong		BY Tina Chen	CHECKED Lien Vu			POST MILE	VARIES	
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong								
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)								ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 1012000027 1 CONTRACT NUMBER: 10-0W6904	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES 12-06-13 01-30-14 10-28-13 11-26-13	SHEET 7 OF 10

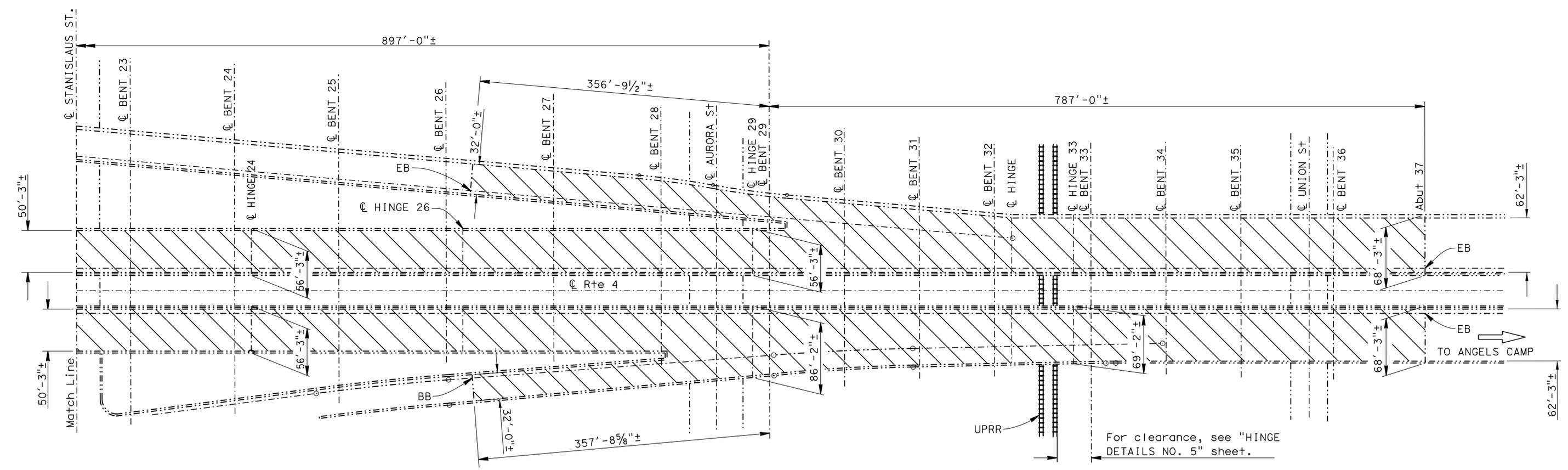
FILE => 10-0w6901_07_gp7.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4, 5, 99, 205	Var	25	27

Charles R. Hutchinson 01-08-13
 REGISTERED CIVIL ENGINEER DATE
 03-24-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA

- Notes:**
- Protect all existing conduits.
 - Indicates existing structure.
 - Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. Remove unsound concrete and patch with rapid setting concrete prior to bridge deck treatment. For details, see "DECK REPAIR DETAIL" on "JOINT SEAL DETAILS" sheet.



CROSTOWN FREEWAY VIADUCT
 BR NO. 29-0269, RTE 4, PM RI6.62
 1" = 60'

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

 01-08-13 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 4, 5, 99, & 205 BRIDGES GENERAL PLAN NO. 8		
	DETAILS	BY Trung Lam	CHECKED Khanh Truong	SPECIFICATIONS	BY Tina Chen	PLANS AND SPECIFICATIONS COMPARED Lien Vu			VARIOUS			
QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong						POST MILE				
							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488	SHEET OF	8 10	
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							PROJECT NUMBER & PHASE: 1012000027 1		CONTRACT NUMBER: 10-0W6904		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
							FILE => 10-0w6901_08_gp8.dgn		REVISION DATES		12-06-13 01-30-14 10-25-13 11-27-13	

USERNAME => s123936 DATE PLOTTED => 24-MAR-2014 TIME PLOTTED => 13:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4, 5, 99, 205	Var	26	27

Charles R. Hutchinson 01-08-14
 REGISTERED CIVIL ENGINEER DATE

03-24-14
 PLANS APPROVAL DATE

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

JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (inches)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXPANSION JOINT (inches)	
DELTA MENDOTA CANAL	29-0205L	Abut 1	BB	1/2	49	No	12.0
		Bent 2	℄	1 1/2	49	Yes	12.0
		Bent 3	℄	1	49	Yes	12.0
		Abut 4	EB	1/2	49	No	12.0
MATHEWS ROAD UNDERCROSSING	29-0218R	Abut 1	BB	1/2	53	No	0
		Abut 2	EB	1/2	53	No	0
HOSPITAL ROAD UNDERCROSSING	29-0219L	Abut 1	BB	1/2	53	No	12.0
		Abut 2	EB	1/2	53	No	12.0
	29-0219R	Abut 1	BB	1/2 **	66	No	12.0
		Abut 2	EB	1/2 **	64	No	12.0
GARFIELD STREET OVERHEAD	29-0240R	Abut 1	BB	1	83	No	12.0
		Abut 3	EB	1	83	No	12.0
BARBER ROAD UNDERCROSSING	29-0248L	Abut 1	BB	1	40	No	12.0
		Abut 2	EB	1	40	No	12.0
ROUTE 5/33 SEP. & OVERHEAD	29-0260L	Abut 1	BB	1 1/2	65	No	0
		Abut 3	EB	1 1/2	75	No	0

The following note applies to JOINT SEAL TYPE A:

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

The following notes apply to JOINT SEAL TYPE B:

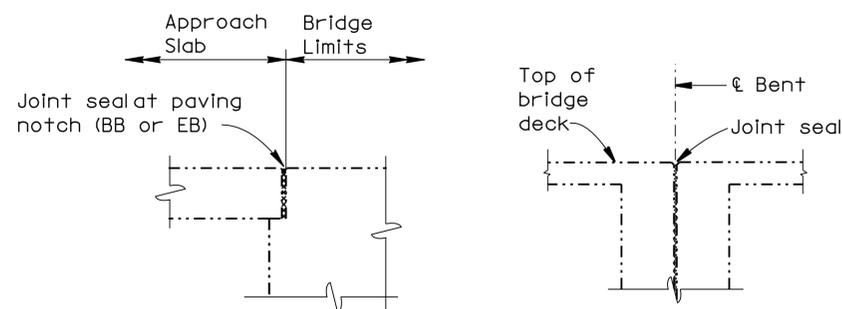
- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
- W1 shall be the smaller of the values determined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

DECK REPAIR TABLE

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
ROUTE 99/120 SEP	29-0125	2	3
PARADISE ROAD OC	29-0181	2	3
MATHEWS ROAD UC	29-0218R	2	3
HOSPITAL ROAD UC	29-0219L	2	3
HOSPITAL ROAD UC	29-0219R	2	3
TURNER ROAD UC	29-0245R	2	3
PELTIER ROAD UC	29-0246R	2	3
ARCH ROAD UC	29-0316	2	3
CROSTOWN FREEWAY VIADUCT	29-0269	1	3

LEGEND:

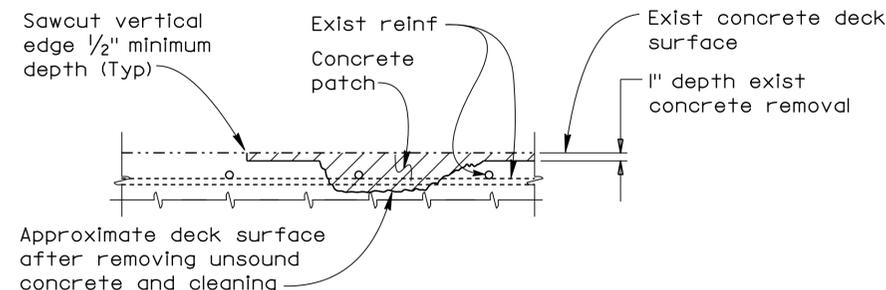
- BB = Paving notch at beginning of bridge
- EB = Paving notch at end of bridge
- ℄ = Bent joint
- * = Joint Seal Assembly
- ** = Use Type "B" Seal



DIAPHRAGM ABUTMENT BENT
JOINT SEAL LOCATION

NO SCALE

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



DECK REPAIR DETAIL

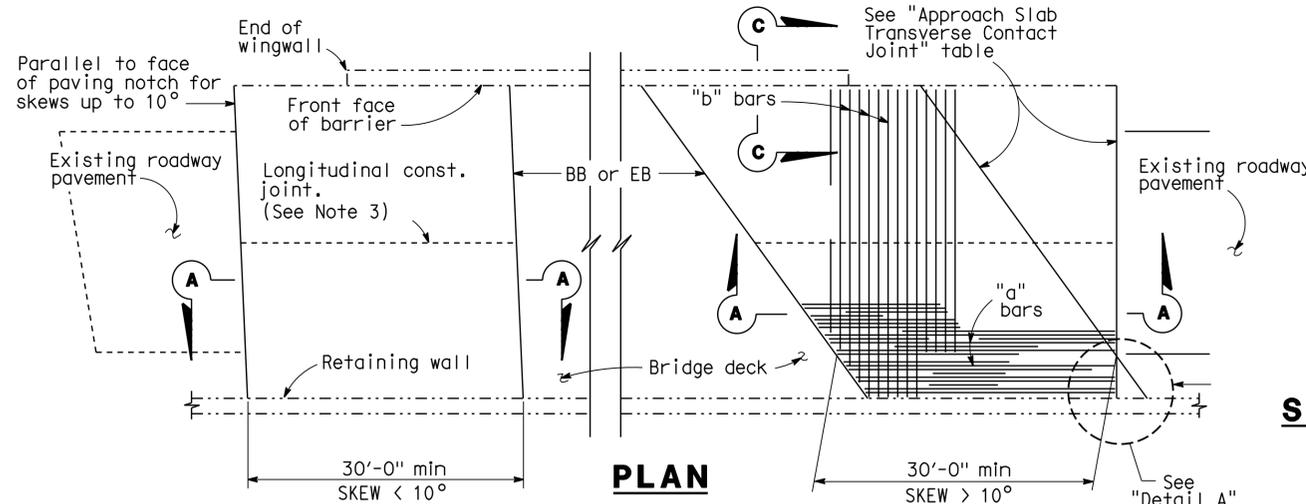
Note: Reinforcement may be encountered during deck concrete removal.

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)	DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 4, 5, 99, & 205 BRIDGES
	DETAILS	BY Trung Lam	CHECKED Khanh Truong			POST MILE	VARIES	
	QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong			JOINT SEAL DETAILS		

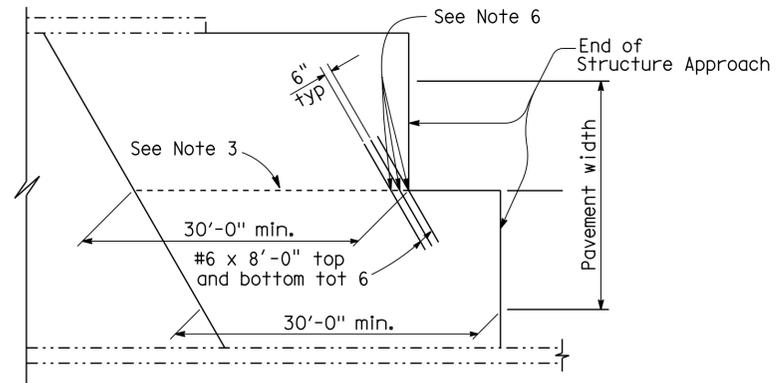
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3488
 PROJECT NUMBER & PHASE: 1012000027 1
 CONTRACT NUMBER: 10-0W6904
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 3-13-14, 12-30-13, 01-08-14, 01-30-14
 SHEET 9 OF 10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4, 5, 99, 205	Var	27	27

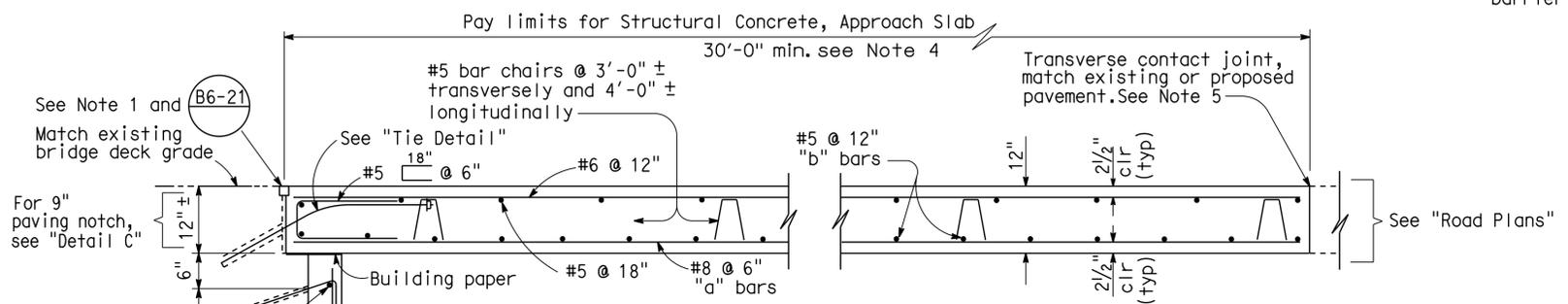
Charles R. Hutchinson 01-08-14
 REGISTERED CIVIL ENGINEER DATE
 03-24-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



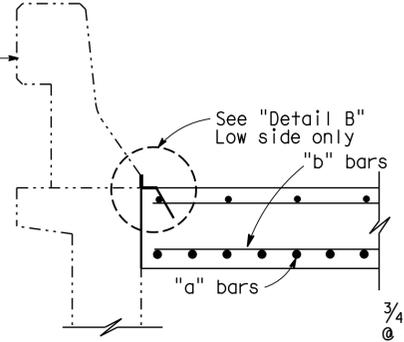
STRUCTURE APPROACH - END STAGGER DETAIL



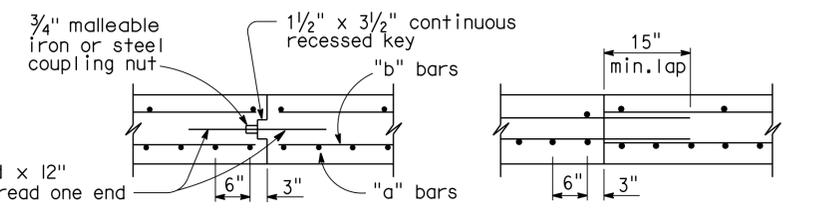
APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	Parallel to face of paving notch	Parallel to face of paving notch
10° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 24'-0" to 35'-0" apart
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line



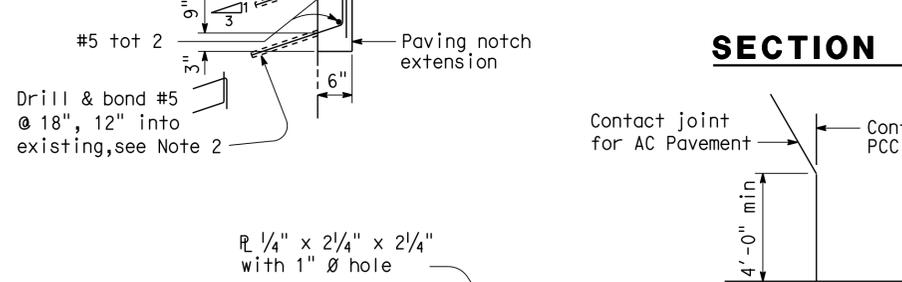
SECTION A-A



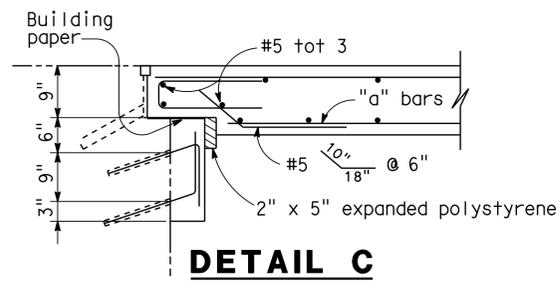
SECTION C-C



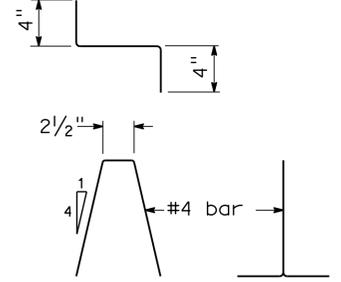
LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES



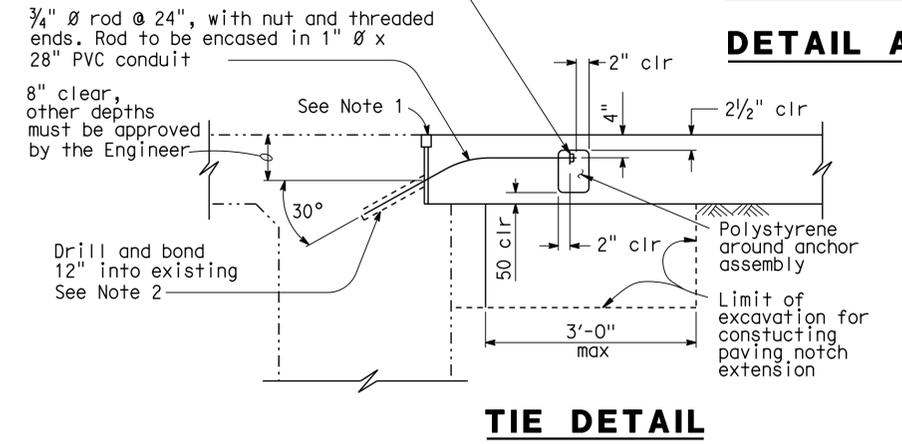
TIE DETAIL



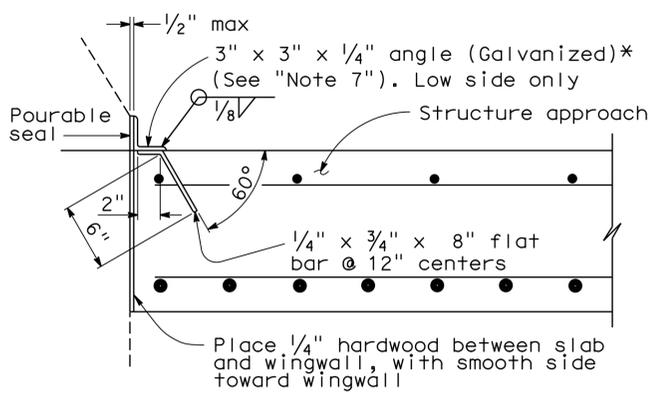
DETAIL C



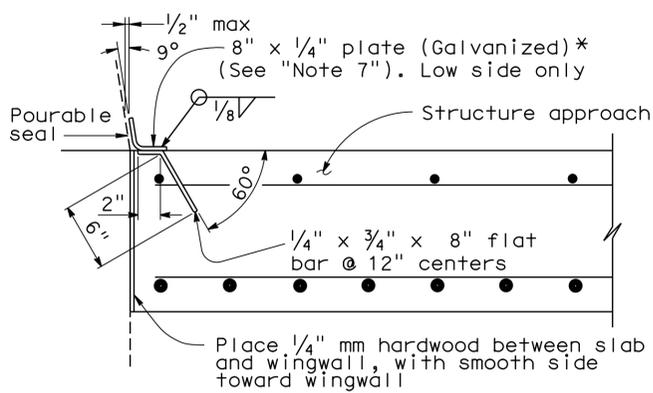
BAR CHAIR DETAIL



DETAIL A



DETAIL B



*(TO BE USED WITH TYPE 25 OR TYPE 27 CONCRETE BARRIER) *(TO BE USED WITH TYPE 732 OR TYPE 736 CONCRETE BARRIER)

- NOTES:**
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - Space to avoid existing prestress anchorages and main reinforcement.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
 - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint.
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10.
 - Couplers are required for stage construction.
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable.

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

DESIGN	BY Charles Hutchinson	CHECKED Khanh Truong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.	ROUTE 4, 5, 99, & 205 BRIDGES STRUCTURE APPROACH TYPE R(30D)
DETAILS	BY Trung Lam	CHECKED Khanh Truong		STRUCTURE MAINTENANCE DESIGN	VARIOUS	
QUANTITIES	BY Charles Hutchinson	CHECKED Khanh Truong			POST MILE VARIES	

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3488 PROJECT NUMBER & PHASE: 1012000027 1 CONTRACT NUMBER: 10-0W6904 DISREGARD PRINTS BEARING EARLIER REVISION DATES 12-06-13 12-30-13 01-08-14 01-30-14 SHEET 10 OF 10