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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN MERCED AND STANISLAUS COUNTIES
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

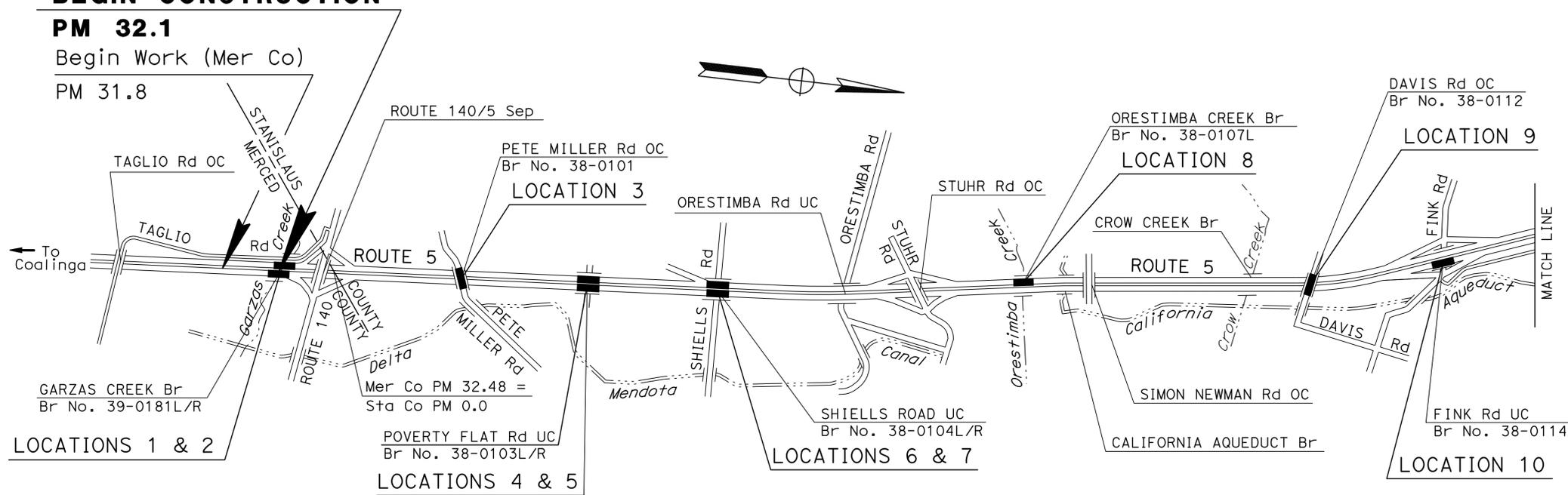


BEGIN CONSTRUCTION

PM 32.1

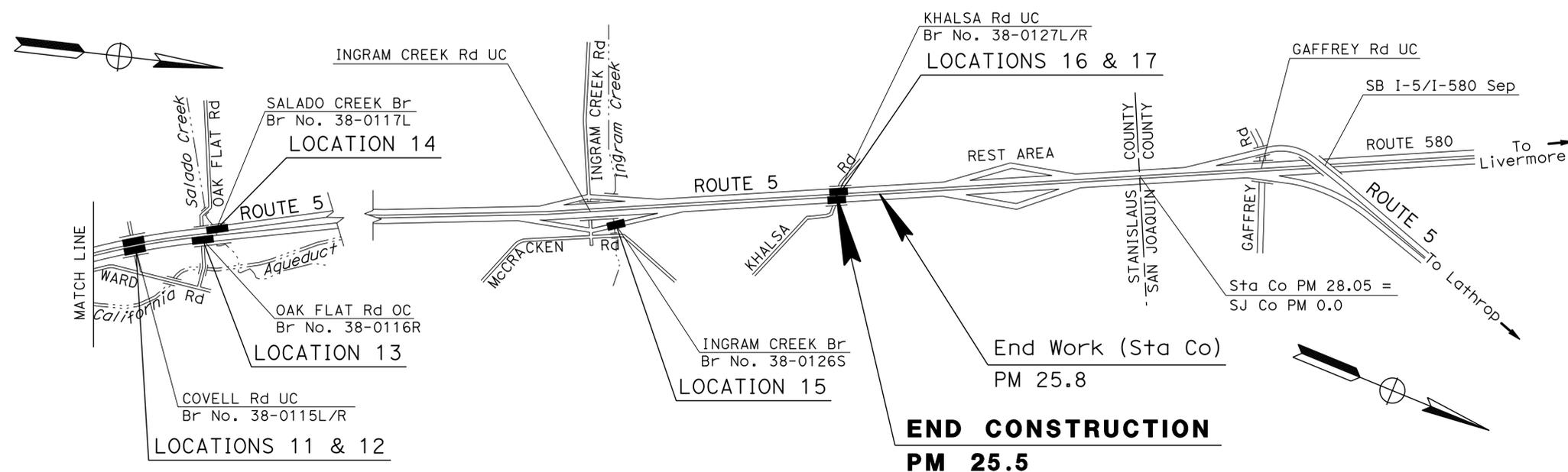
Begin Work (Mer Co)

PM 31.8



LOCATIONS OF CONSTRUCTION

Loc No.	COUNTY	PM	BRIDGE NAME	BRIDGE No.
1	Mer	32.11	GARZAS CREEK	39-0181L
2		32.11	GARZAS CREEK	39-0181R
3		0.89	PETE MILLER ROAD OC	38-0101
4		2.48	POVERTY FLAT ROAD UC	38-0103L
5		2.48	POVERTY FLAT ROAD UC	38-0103R
6	Sta	3.99	SHIELLS ROAD UC	38-0104L
7		3.99	SHIELLS ROAD UC	38-0104R
8		5.73	ORESTIMBA CREEK	38-0107L
9		9.45	DAVIS ROAD OC	38-0112
10		10.71	FINK ROAD UC	38-0114R
11		11.22	COVELL ROAD UC	38-0115L
12		11.22	COVELL ROAD UC	38-0115R
13		12.53	OAK FLAT ROAD UC	38-0116R
14		12.68	SALADO CREEK	38-0117L
15		23.07	INGRAM CREEK	38-0126S
16		25.53	KHALSA ROAD UC	38-0127L
17		25.53	KHALSA ROAD UC	38-0127R



END CONSTRUCTION
PM 25.8

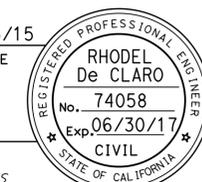
NO SCALE

PROJECT MANAGER
ALVIN MANGINDIN
DESIGN MANAGER
ALVIN MANGINDIN

Rhodel DeClaro 10/5/15
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

October 12, 2015
PLANS APPROVAL DATE

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



CONTRACT No.	10-1E1204
PROJECT ID	1015000065

NOTES:

- EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- ADDITIONAL CONSTRUCTION AREA SIGNS SHOWN ON MI-1 AND MI-2.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE		PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
	FEDERAL	CALIFORNIA				
A	G20-1		90" x 48"	2 - 6" x 6"	2	ROAD CONSTRUCTION NEXT 13 MILES
B	W20-1		36" x 36"	1 - 4" x 6"	8	ROAD WORK AHEAD
C	W20-1		48" x 48"	1 - 4" x 6"	9	ROAD WORK AHEAD
D	G20-2		48" x 24"	1 - 4" x 6"	4	END ROAD WORK
E	G20-2		36" x 18"	1 - 4" x 4"	6	END ROAD WORK

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer,Sta	5	Var	2	22

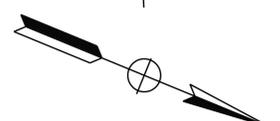
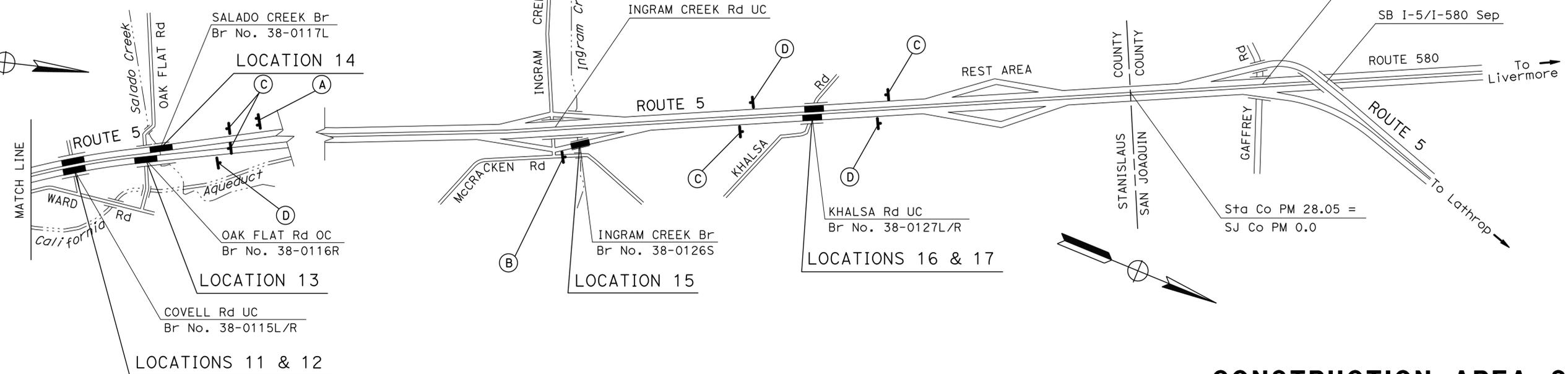
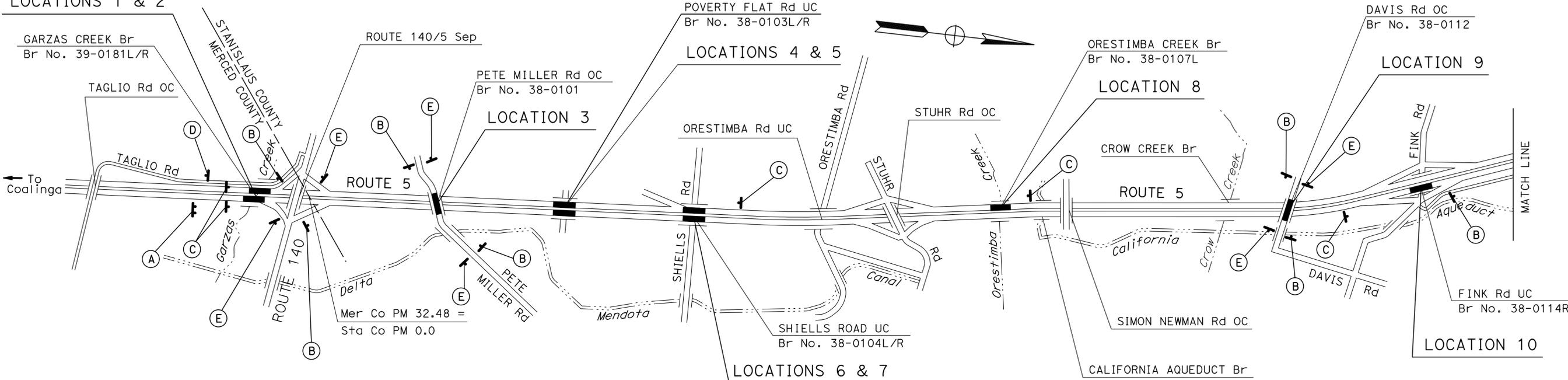
Rhodel DeClaro 10/5/15
 REGISTERED CIVIL ENGINEER DATE

10-12-15
 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
RHODEL De CLARO
 No. 74058
 Exp. 6/30/17
 CIVIL
 STATE OF CALIFORNIA

LOCATIONS 1 & 2



CONSTRUCTION AREA SIGNS
CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CHECKED BY: [blank]
 CALCULATED/DESIGNED BY: [blank]
 RHODEL DE CLARO
 JOSE A. ALICEA II
 REVISED BY: [blank]
 DATE REVISED: [blank]
 RDC: 07/01/15
 RDC: 09/10/15

LAST REVISION DATE PLOTTED => 21-OCT-2015
 09-29-15 TIME PLOTTED => 11:01

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CALCULATED/DESIGNED BY: RHODEL DE CLARO
 CHECKED BY: JOSE A. ALICEA II
 REVISIONS:
 RDC 09/29/15
 RDC 09/10/15
 RDC 07/01/15
 DATE REVISED

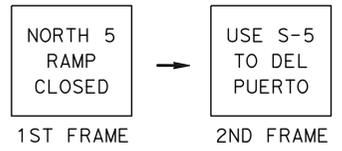
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer,Sta	5	Var	3	22

Rhodel De Claro 10/5/15
 REGISTERED CIVIL ENGINEER DATE
 10-12-15
 PLANS APPROVAL DATE
 No. 74058
 Exp. 6/30/17
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER

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:

- GUIDE SIGNS ARE TO BE PLACED ON EXISTING SIGN POSTS WHERE POSSIBLE AND AS DETERMINED BY THE ENGINEER.
- EXACT LOCATION OF ALL SIGNS TO BE DETERMINED BY THE ENGINEER.
- DURING THE NB ROUTE 5 ON-RAMP FROM INGRAM CREEK ROAD CLOSURE, THE PCMS MESSAGE AT (G) SHOULD READ:



- FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE SHEET CS-1 and MI-2.
- * ADVANCED SPECIAL MESSAGE ADVISORY SIGN AT RAMPS.

LEGEND:

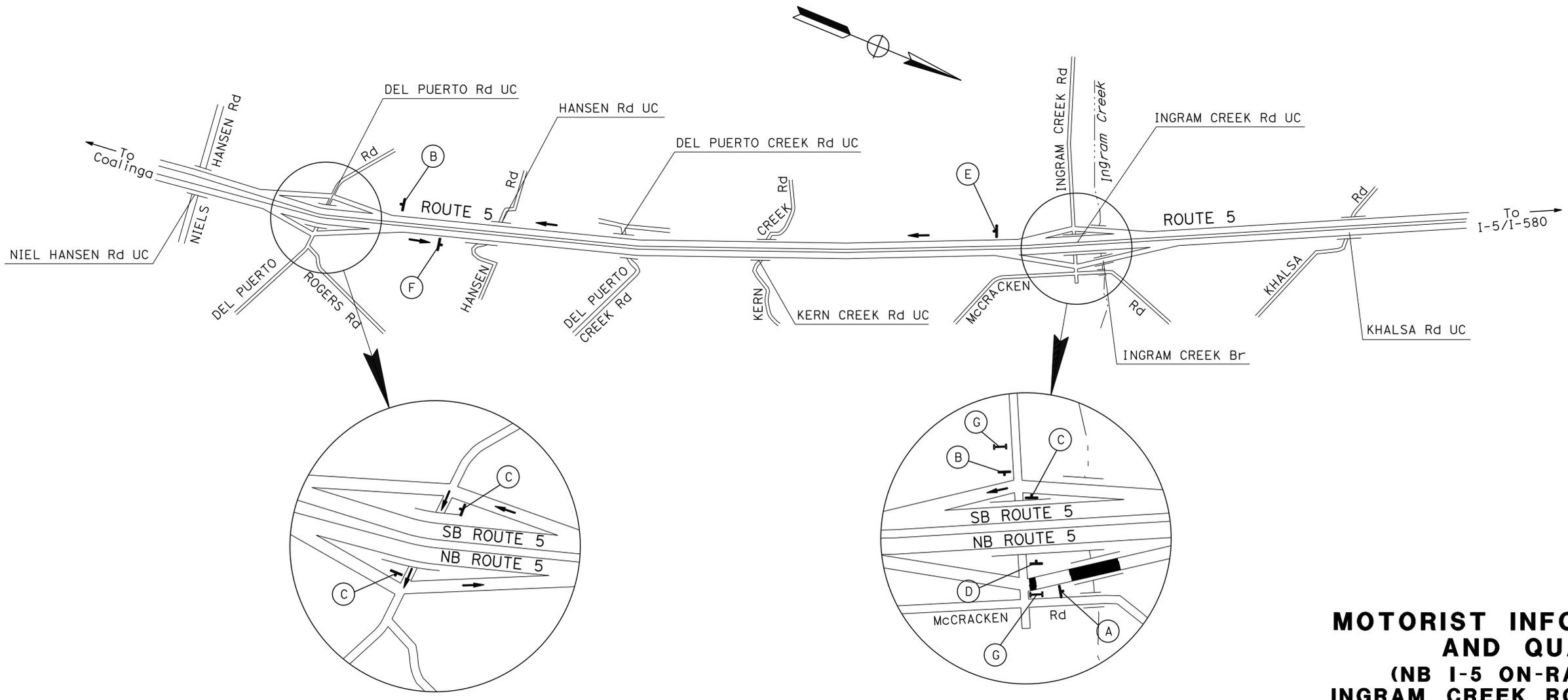
- (X) SIGN
- ↓ CONSTRUCTION AREA SIGN (PORTABLE)
- I PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- ↑ DETOUR ROUTE TRAFFIC FLOW

PORTABLE CHANGEABLE MESSAGE SIGN

SIGN	No. OF SIGNS
(G)	2

CONSTRUCTION AREA SIGNS (PORTABLE)

SIGN	SIGN CODE		PANEL SIZE	No. OF SIGNS	SIGN MESSAGE
	FEDERAL	STATE			
(A)*		SC6-4 (CA)	48" x 60"	1	"RAMP CLOSED INFO"
(B)	M4-10(R+)		48" x 18"	2	DETOUR (ARROW)
(C)	M4-10(L+)		48" x 18"	3	DETOUR (ARROW)
(D)	W20-2		36" x 36"	1	DETOUR AHEAD
(E)	W20-2		48" x 48"	1	DETOUR 7 MILES
(F)	M4-8a		24" x 12"	1	END DETOUR



MOTORIST INFORMATION PLAN AND QUANTITIES
 (NB I-5 ON-RAMP FROM INGRAM CREEK ROAD CLOSURE)

APPROVED FOR MOTORIST INFORMATION WORK ONLY

NO SCALE **MI-1**

LAST REVISION | DATE PLOTTED => 21-OCT-2015 09-29-15 | TIME PLOTTED => 11:01

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
 07/01/15
 RDC
 09/10/15
 RDC
 09/15/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer,Sta	5	Var	4	22

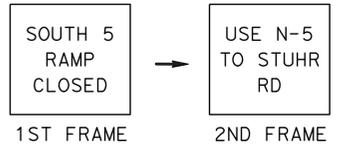
Rhodel De Claro 10/5/15
 REGISTERED CIVIL ENGINEER DATE
 10-12-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 RHODEL De CLARO
 No. 74058
 Exp. 6/30/17
 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 (THIS SHEET ONLY):

1. DURING THE SB ROUTE 5 ON-RAMP FROM ROUTE 140 CLOSURE, THE PCMS MESSAGE AT (N) SHOULD READ:



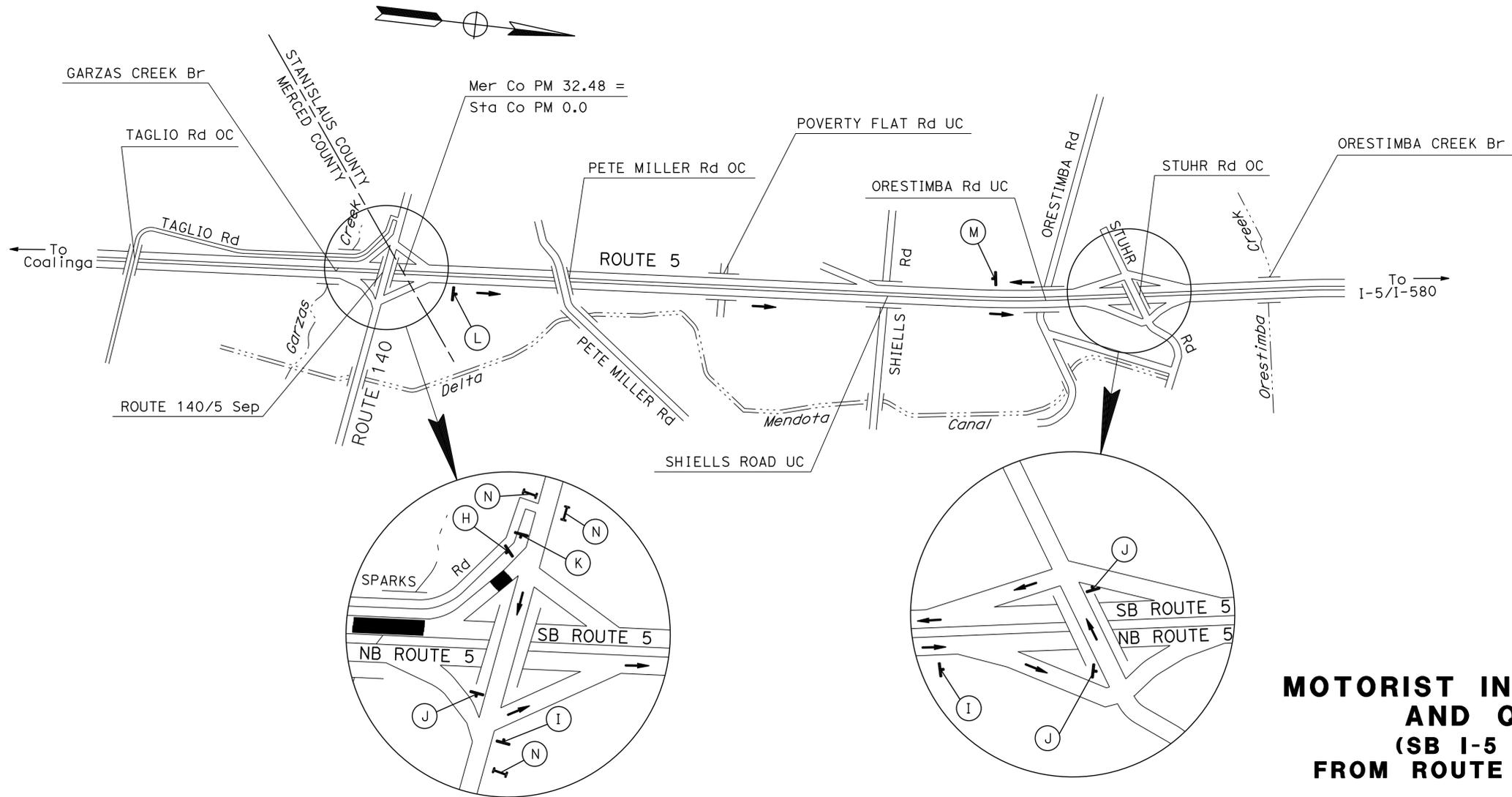
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE SHEET CS-1 AND MI-1.

CONSTRUCTION AREA SIGNS (PORTABLE)

SIGN	SIGN CODE		PANEL SIZE	No. OF SIGNS	SIGN MESSAGE
	FEDERAL	STATE			
(H)*		SC6-4 (CA)	48" x 60"	1	"RAMP CLOSED INFO"
(L)	M4-10(R+)		48" x 18"	2	DETOUR (ARROW)
(L)	M4-10(L+)		48" x 18"	3	DETOUR (ARROW)
(K)	W20-2		36" x 36"	1	DETOUR AHEAD
(L)	W20-2		48" x 48"	1	DETOUR 6 MILES
(M)	M4-8a		24" x 12"	1	END DETOUR

PORTABLE CHANGEABLE MESSAGE SIGN

SIGN	No. OF SIGNS
(N)	3



MOTORIST INFORMATION PLAN AND QUANTITIES (SB I-5 ON-RAMP FROM ROUTE 140 CLOSURE)

APPROVED FOR MOTORIST INFORMATION WORK ONLY

NO SCALE

MI-2

LAST REVISION | DATE PLOTTED => 21-OCT-2015
 09-29-15 TIME PLOTTED => 11:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer,Sta	5	Var	5	22

Rhodel De Claro 10/5/15
REGISTERED CIVIL ENGINEER DATE

10-12-15
PLANS APPROVAL DATE

RHODEL De CLARO
No. 74058
Exp. 6/30/17
CIVIL

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PAVEMENT DELINEATION ITEMS

LOCATION No.	BRIDGE NAME	BRIDGE No.	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE		4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12)	REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)			
					YELLOW				WHITE	TYPE G	TYPE H	
					DETAIL 25	DETAIL 25A			DETAIL 27B		DETAIL 12	DETAIL 25
			LF	LF	LF		LF	EA	EA			
1	GARZAS CREEK	39-0181L	138	184	138		138	6	3	3		
2	GARZAS CREEK	39-0181R	138	184	138		138	6	3	3		
4	POVERTY FLAT ROAD UC	38-0103L	66	88	66		66	4	2	2		
5	POVERTY FLAT ROAD UC	38-0103R	66	88	66		66	4	2	2		
6	SHIELLS ROAD UC	38-0104L	82	109	82		82	4	2	2		
7	SHIELLS ROAD UC	38-0104R	82	109	82		82	4	2	2		
8	ORESTIMBA CREEK	38-0107L	249	332	249		249	12	6	6		
10	FINK ROAD UC	38-0114R	124	165	124		124	6	3	3		
11	COVELL ROAD UC	38-0115L	66	88	66		66	4	2	2		
12	COVELL ROAD UC	38-0115R	86	115	86		86	4	2	2		
13	OAK FLAT ROAD UC	38-0116R	144	182	144		144	8	4	4		
15	INGRAM CREEK	38-0126S	78	78		78		4			4	
16	KHALSA ROAD UC	38-0127L	86	115	86		86	4	2	2		
17	KHALSA ROAD UC	38-0127R	86	115	86		86	4	2	2		
SUBTOTAL			1491	1952	1413	78	1481	74	35	35	4	
TOTAL			1491	1952	2972		1413	74	74			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN

MAINTENANCE

DESIGNED BY: RHODEL DE CLARO

CHECKED BY: JOSE A. ALICEA II

REVISOR: RDC

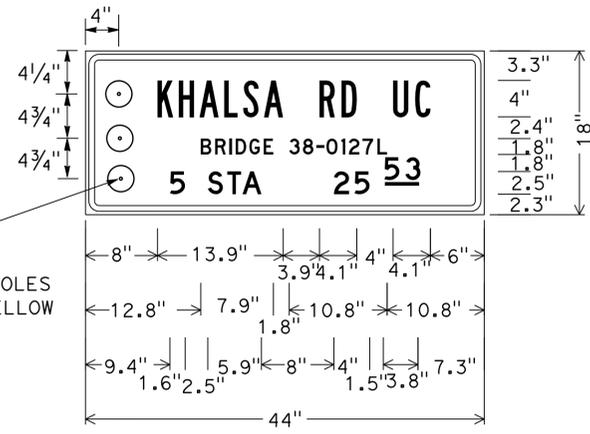
DATE REVISED: 07/01/15

DATE: 09/16/15

PAVEMENT DELINEATION QUANTITIES PDQ-1

LAST REVISION | DATE PLOTTED => 21-OCT-2015
09-29-15 | TIME PLOTTED => 11:01

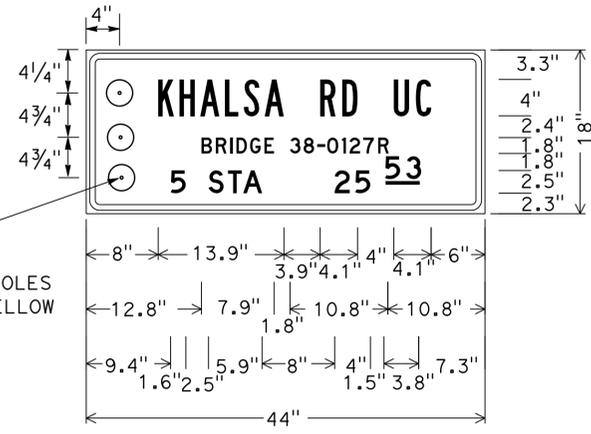
G11-4.1(CA)



0.196" DIA HOLES FOR 3/4" YELLOW REFLECTORS

1.5" Radius, 0.6" Border, 0.4" Indent, Black on White;
 [KHALSA RD UC] B;
 [BRIDGE 38-0127L] D;
 [5 STA] D; [25] D;
 [52] D;

G11-4.1(CA)



0.196" DIA HOLES FOR 3/4" YELLOW REFLECTORS

1.5" Radius, 0.6" Border, 0.4" Indent, Black on White;
 [KHALSA RD UC] B;
 [BRIDGE 38-0127L] D;
 [5 STA] D; [25] D;
 [52] D;

ROADSIDE SIGN ITEMS

POST MILE	SIGN CODE		SIGN MESSAGE	PANEL SIZE	SIGN PANEL AREA	BACKGROUND		LEGEND		GRAFFITI FLOW		FURNISH SINGLE SHEET ALUMINIUM SIGN	REMOVE MARKER	REMOVE ROADSIDE SIGN PANEL	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST	REMARKS
	FEDERAL	CALIFORNIA				SQFT	SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE	SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE	STANDARD					
25.53		G11-4.1(CA)	INVENTORY MARKER	44" x 18"	5.51	WHITE	IX	BLACK			X	5.51			1	
		G11-4.1(CA)	INVENTORY MARKER	44" x 18"	5.51	WHITE	IX	BLACK			X	5.51			1	
		G11-1(CA)												1		
		G11-1(CA)												1		
		L-1(CA)												1		
		L-1(CA)												1		
TOTAL												11.02	2	2	2	

SIGN DETAILS AND SIGN QUANTITIES

SD-1

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
 07/01/15

RDC
 09/10/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta	5	Var	7	22

Rhodel De Claro 10/5/15
 REGISTERED CIVIL ENGINEER DATE

10-12-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 RHODEL De CLARO
 No. 74058
 Exp. 6/30/17
 CIVIL
 STATE OF CALIFORNIA

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TRAFFIC MANAGEMENT SYSTEM ELEMENTS (EXISTING)

Loc No.	COUNTY	PM	Dir	LOCATION	TYPE
1	Mer	32.20	SB	SOUTH OF ON-RAMP FROM ROUTE 140	MICROWAVE VEHICLE DETECTION SYSTEM
				SOUTH OF ON-RAMP FROM ROUTE 140	MICROWAVE VEHICLE DETECTION SYSTEM
2	Mer	32.20	NB	OFF-RAMP TO ROUTE 140	MICROWAVE VEHICLE DETECTION SYSTEM
				SOUTH OF OFF-RAMP TO ROUTE 140	MICROWAVE VEHICLE DETECTION SYSTEM
1 & 2		32.11	NB/SB	IN MEDIAN SOUTH OF GARZA CREEK BRIDGE	LOOPS

NOTE: TRAFFIC MANAGEMENT SYSTEM ELEMENTS LOCATIONS ARE APPROXIMATE.

**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	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	
	W	
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	Mer, Sta	5	Var	8	22

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

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 10-12-15

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

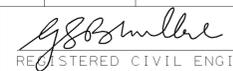
**ABBREVIATIONS
(SHEET 2 OF 2)**

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer,Sta	5	Var	9	22


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 10-12-15

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.

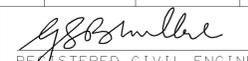
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**
 NO SCALE

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

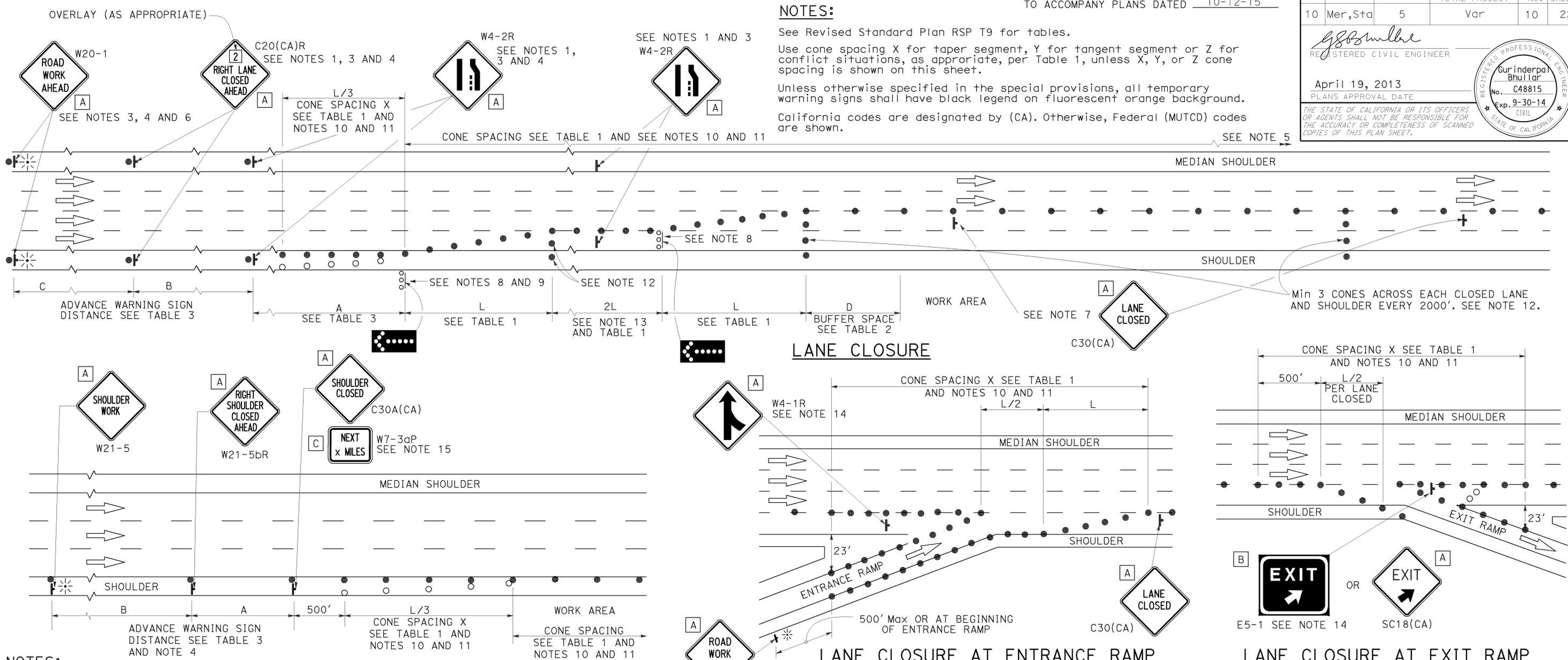
REVISED STANDARD PLAN RSP T9

2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, Sta	5	Var	10	22


 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



- 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.

- SHOULDER CLOSURE**
- 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) "NEXT x MILES" sign for the first advance warning sign.
 - Place a C30(CA) sign every 2000' throughout length of lane closure.
 - One flashing arrow sign for each lane closed. The 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	Mer, Sta	5	Var	11	22

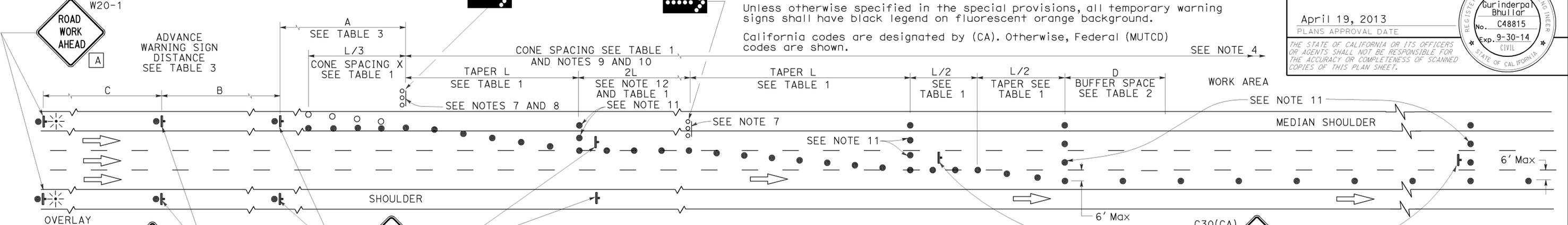
REGISTERED CIVIL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

April 19, 2013
 PLANS APPROVAL DATE

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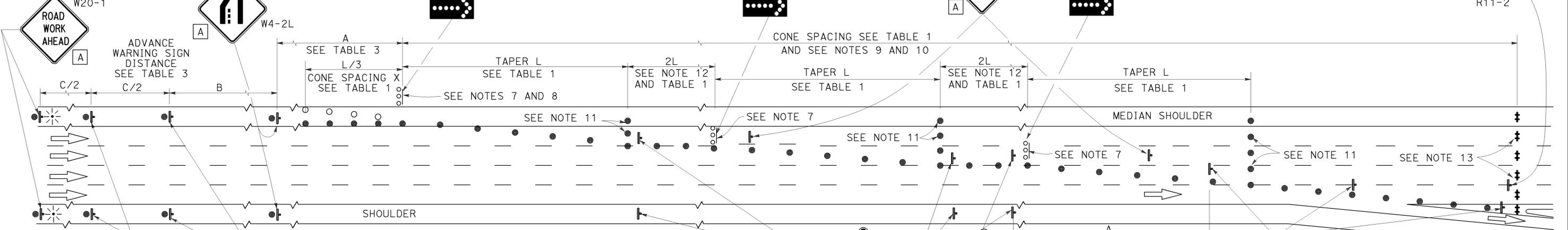
NOTES: See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning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

SEE NOTES 3 AND 5



LANE CLOSURE WITH PARTIAL SHOULDER USE

SEE NOTES 3 AND 5



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- 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) sign for the first advance warning sign.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The 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 the 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 With Partial Shoulder Use" 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.
- A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

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

LEGEND

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURES ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

2010 REVISED STANDARD PLAN RSP T10A

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.

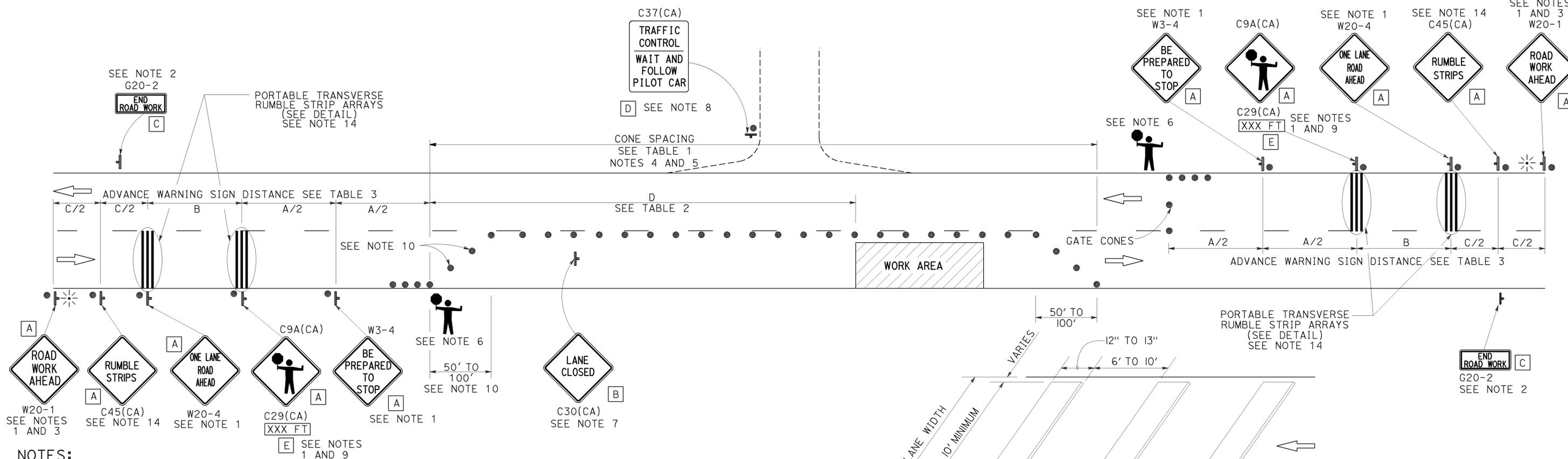
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer,Sta	5	Var	12	22

Devinder Singh
 REGISTERED CIVIL ENGINEER
 October 17, 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.

REGISTERED PROFESSIONAL ENGINEER
 Devinder Singh
 No. C50470
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

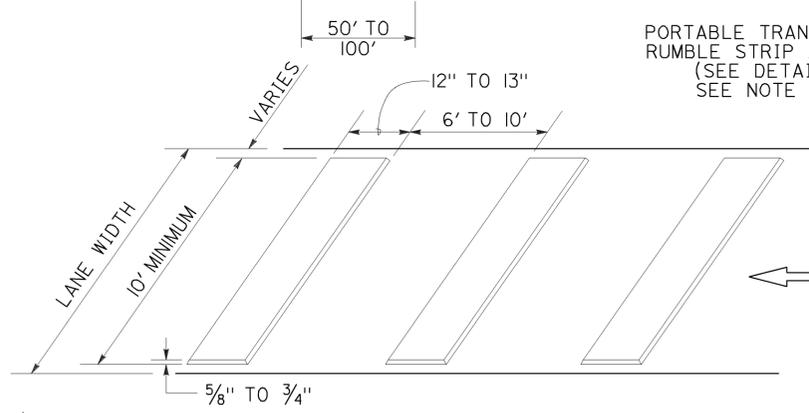
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 10-12-15



NOTES:

- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions



SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 TWO LANE CONVENTIONAL
 HIGHWAYS**
 NO SCALE

RSP T13 DATED OCTOBER 17, 2014 SUPERSEDES RSP T13 DATED JULY 18, 2014
 AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED
 MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

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	Mer,Sta	5	Var	13	22

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

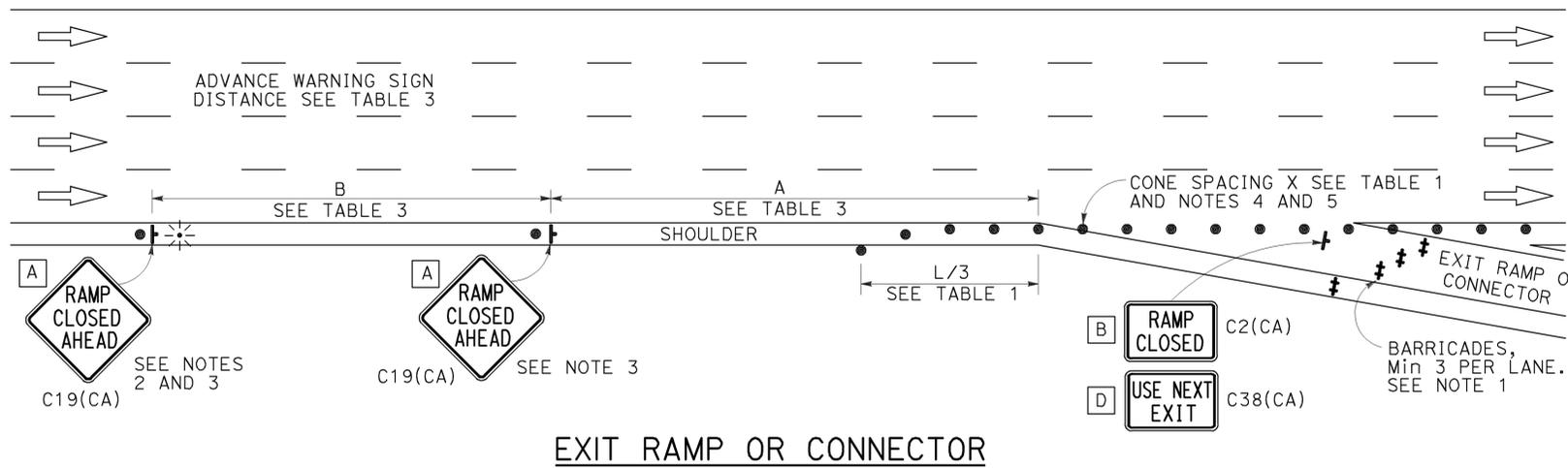
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

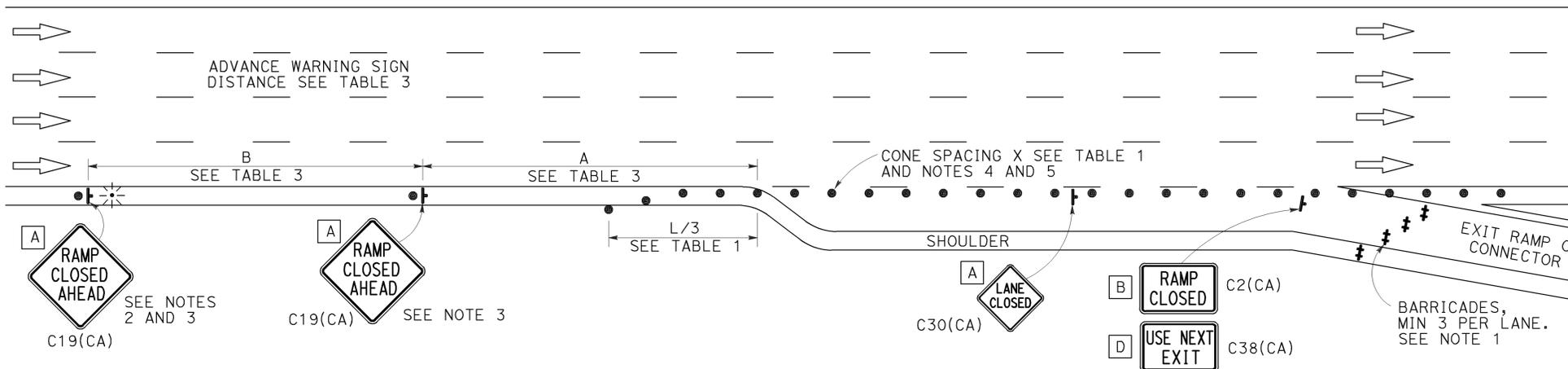
TO ACCOMPANY PLANS DATED 10-12-15

NOTES:

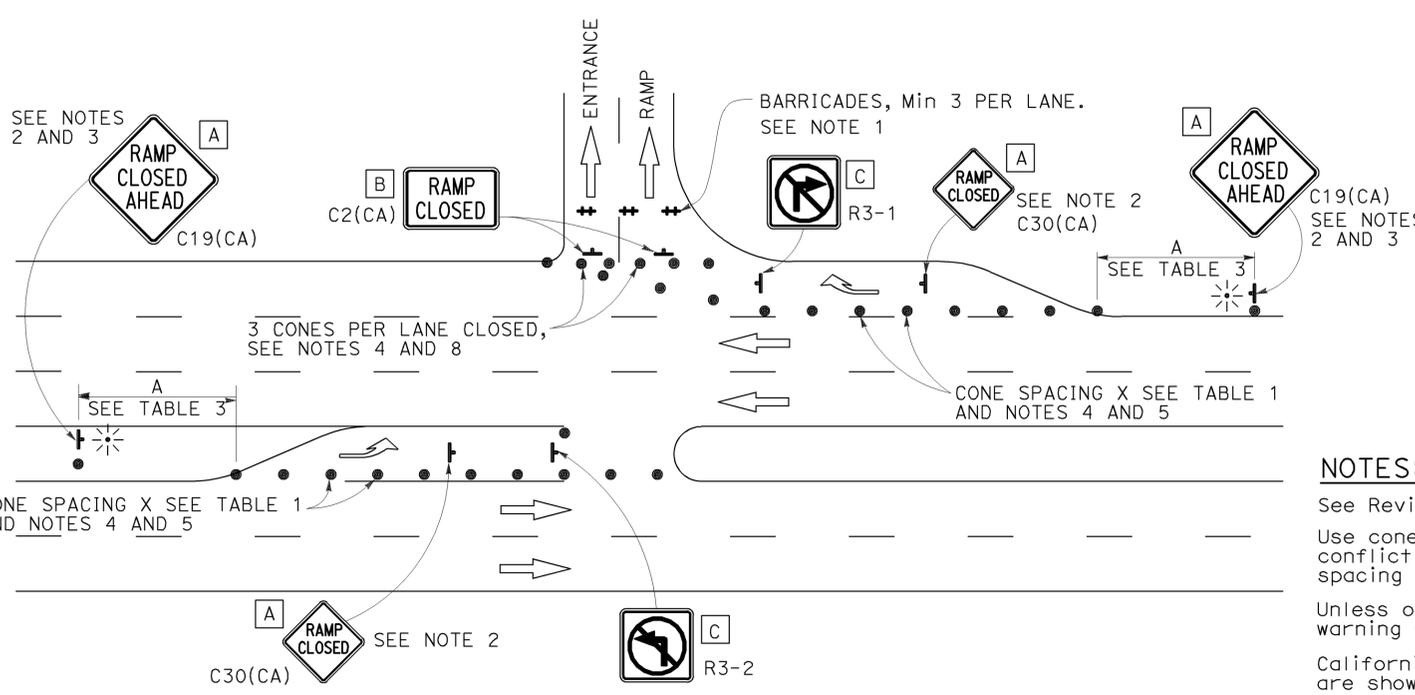
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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.
- 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.
- All cones used for ramp 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 ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



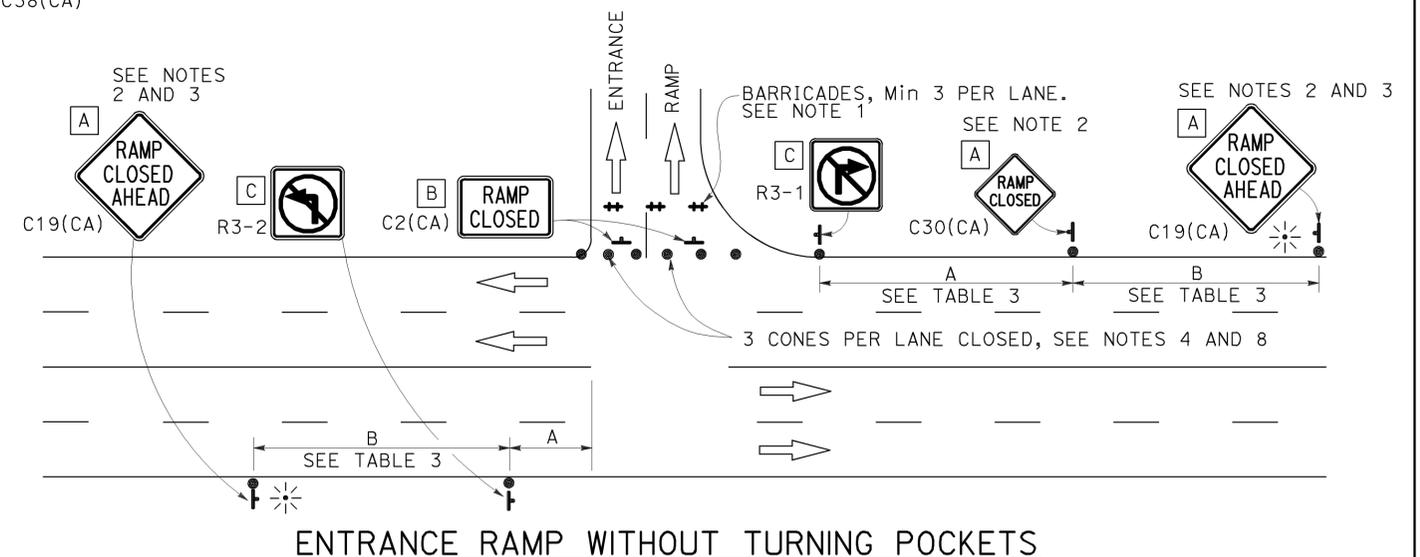
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

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.

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

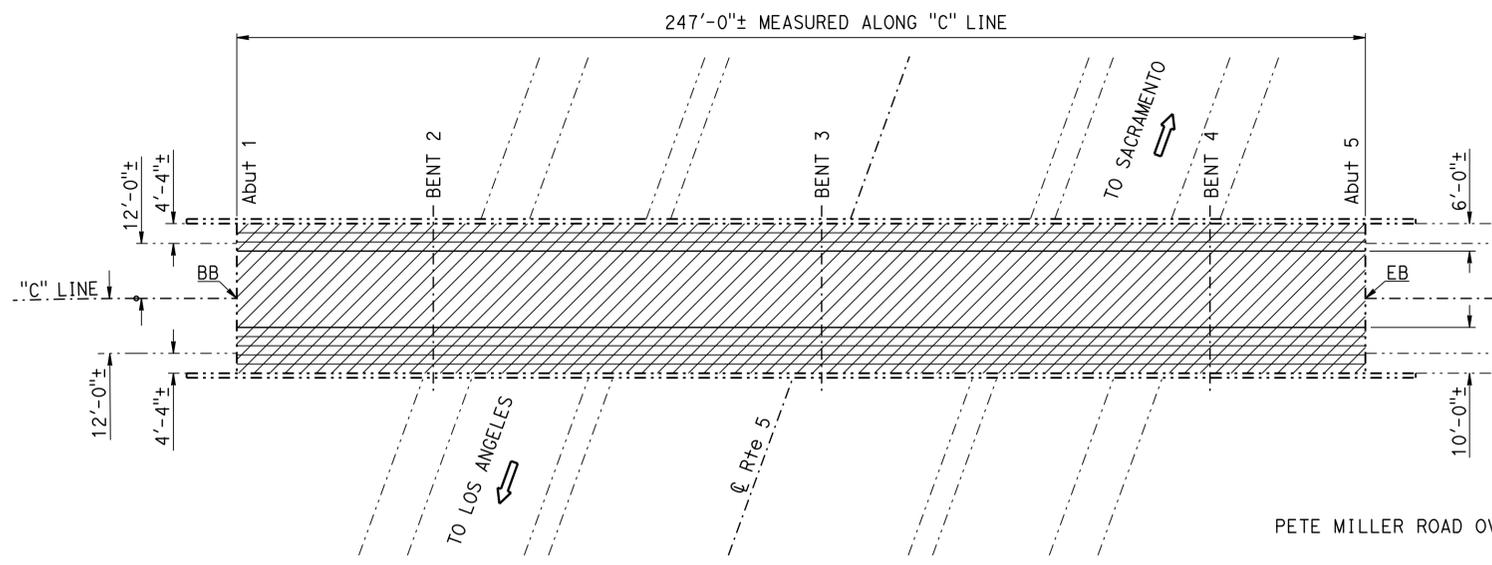
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta, Mer	5	Var	14	22

NOTE: (APPLY TO ALL SHEETS)
 ----- Indicates existing.

REGISTERED CIVIL ENGINEER DATE 8/5/15
 QUANG M. VO
 No. C 055211
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

10-12-15
 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.



PETE MILLER ROAD OVERCROSSING

Br. No. 38-0101, ROUTE 5, Sta, PM 0.89
 1" = 20'

PETE MILLER ROAD OVERCROSSING BRIDGE NO 38-0101

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	8,070	SQFT
TREAT BRIDGE DECK	8,070	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	108	GAL
REMOVE CHIP SEAL	3,952	SQFT

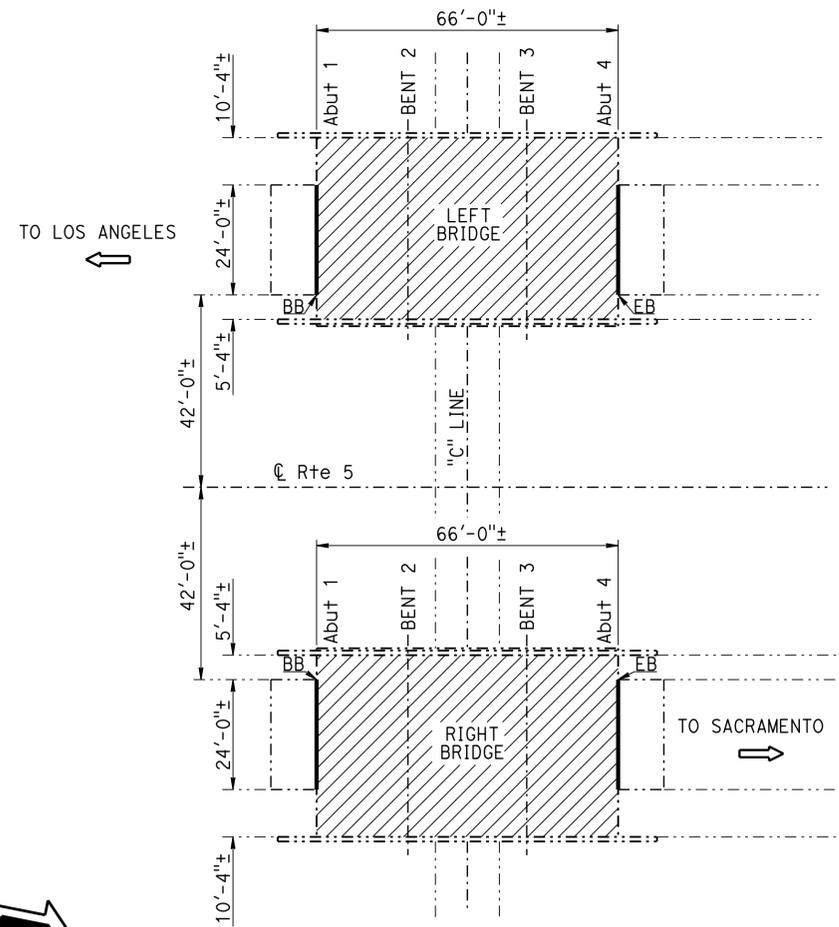
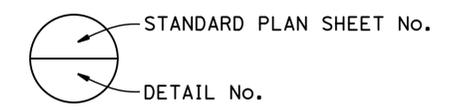
- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
 - Indicates limits of remove existing 1/2"± chip seal overlay.
 - Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS" 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	JOINT SEAL DETAILS NO. 1
9	JOINT SEAL DETAILS NO. 2

STANDARD PLANS 2010

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



POVERTY FLAT ROAD UNDERCROSSING

Br. No. 38-0103L/R, ROUTE 5, Sta, PM 2.48
 1" = 20'

POVERTY FLAT ROAD UNDERCROSSING BRIDGE NO 38-0103L/R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,236	SQFT
TREAT BRIDGE DECK	5,236	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	58	GAL
CLEAN EXPANSION JOINT	96	LF
JOINT SEAL (MR 1/2")	96	LF

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

Matthew Cole 8-4-15
 DESIGN ENGINEER

DESIGN	BY Quang Vo	CHECKED A. Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED A. Nojumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY Quang Vo	CHECKED A. Nojumi	SPECIFICATIONS	BY Wanda L. Ward

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

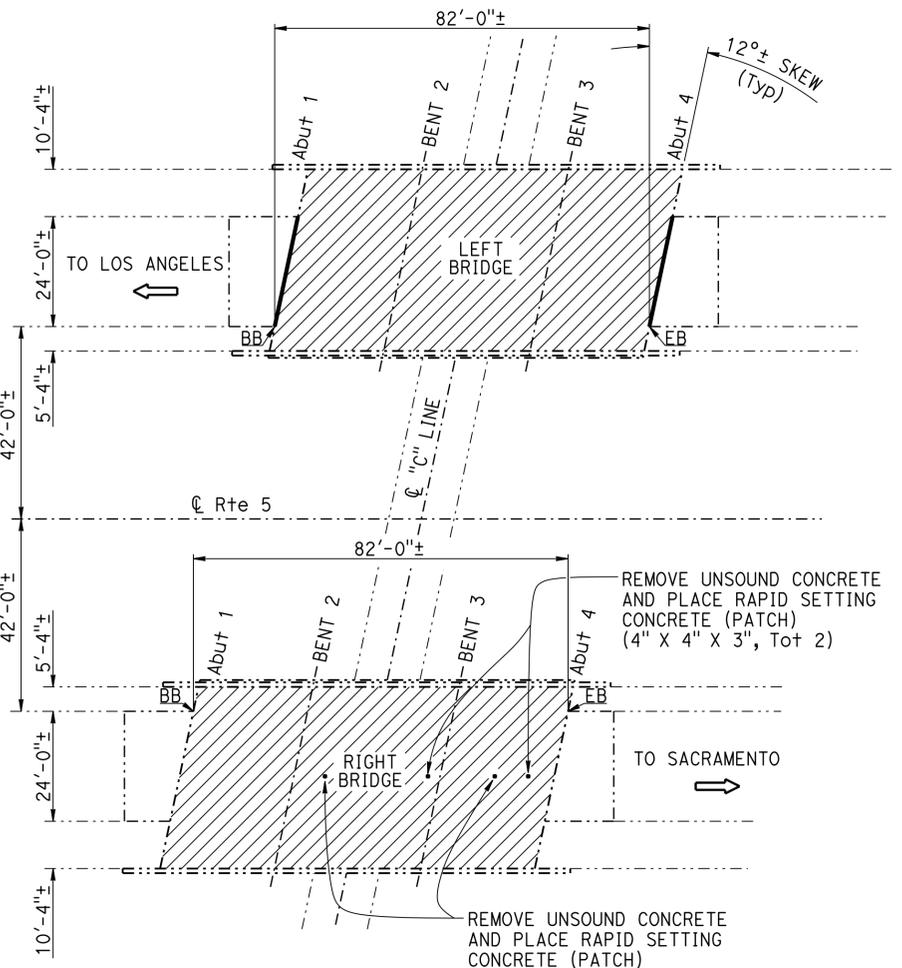
**ROUTE 5 BRIDGES
 GENERAL PLAN NO. 1**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta, Mer	5	Var	15	22
REGISTERED CIVIL ENGINEER			DATE	8/5/15	
PLANS APPROVAL DATE			10-12-15		
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: (APPLY TO THIS SHEET ONLY)

- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
- Indicates limits of remove existing 1/2"± chip seal overlay.
- Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS" sheet.



SHIELLS ROAD UNDERCROSSING

Br. No. 38-0104L/R, ROUTE 5, Sta, PM 3.99
1" = 20'

SHIELLS ROAD UNDERCROSSING BRIDGE NO 38-0104L/R

QUANTITIES		
RAPID SETTING CONCRETE (PATCH)	0.1	CF
REMOVE UNSOUND CONCRETE	0.1	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,506	SQFT
TREAT BRIDGE DECK	6,506	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	72	GAL
CLEAN EXPANSION JOINT	49	LF
JOINT SEAL (MR 1/2")	49	LF

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

Matthew W. Lee 8-4-15
DESIGN ENGINEER

DESIGN	BY Quang Vo	CHECKED A. Nojourni	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED A. Nojourni	LAYOUT	BY Dale Kubochi
QUANTITIES	BY Quang Vo	CHECKED A. Nojourni	SPECIFICATIONS	BY Wanda L. Ward

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTE 5 BRIDGES
GENERAL PLAN NO. 2**

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

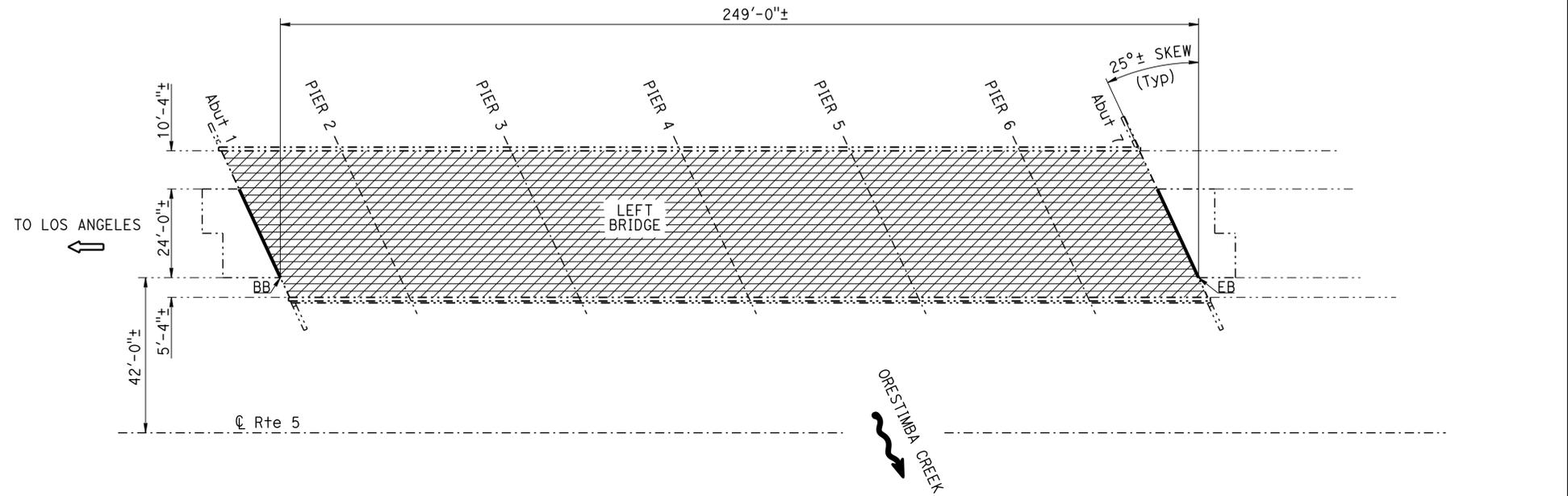
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
PROJECT NUMBER & PHASE: 1015000065
CONTRACT NO.: 10-1E1201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
1-26-15 8-4-15	2	9



ORESTIMBA CREEK

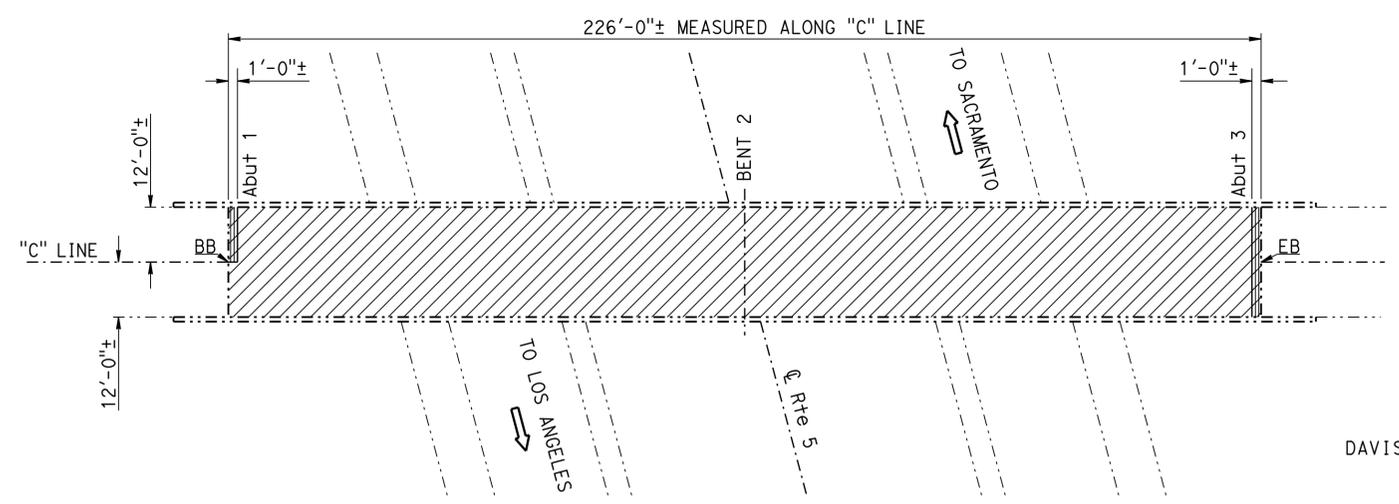
Br. No. 38-0107L, ROUTE 5, Sta, PM 5.73
1" = 20'

ORESTIMBA CREEK BRIDGE NO 38-0107L

QUANTITIES		
PREPARE CONCRETE BRIDGE DECK SURFACE	9,878	SQFT
TREAT BRIDGE DECK	9,878	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	132	GAL
REMOVE CHIP SEAL	9,878	SQFT
CLEAN EXPANSION JOINT	53	LF
JOINT SEAL (MR 1")	53	LF

USERNAME => s120300 DATE PLOTTED => 13-OCT-2015 TIME PLOTTED => 14:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta, Mer	5	Var	16	22
 REGISTERED CIVIL ENGINEER			8/5/15	DATE	
PLANS APPROVAL DATE 10-12-15					
<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>					



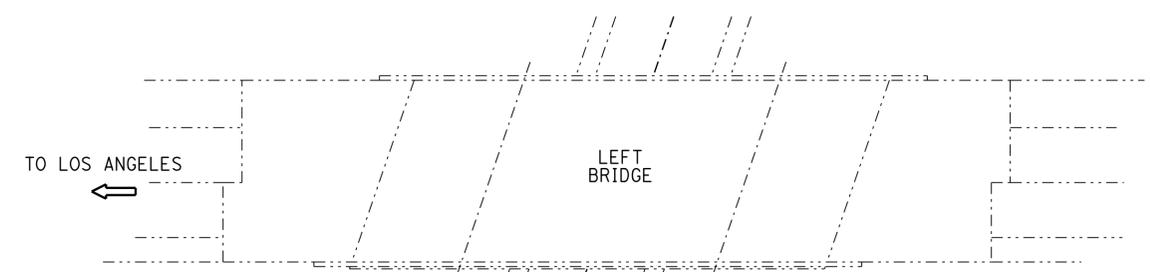
DAVIS ROAD OVERCROSSING
 Br. No. 38-0112, ROUTE 5, Sta, PM 9.45
 1" = 20'

DAVIS ROAD OVERCROSSING BRIDGE NO 38-0112

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	36	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	5,424	SQFT
TREAT BRIDGE DECK	5,424	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	60	GAL

- NOTES: (APPLY TO THIS SHEET ONLY)
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
 -  Indicates limits of remove 1"± AC surfacing.
 -  Indicates location of existing joint seal removal and placement of new joint seal.



FINK ROAD UNDERCROSSING
 Br. No. 38-0114R, ROUTE 5, Sta, PM 10.71
 1" = 20'

FINK ROAD UNDERCROSSING BRIDGE NO 38-0114R

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	0.4	CF
REMOVE UNSOUND CONCRETE	0.4	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,736	SQFT
TREAT BRIDGE DECK	4,736	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	53	GAL
CLEAN EXPANSION JOINT	26	LF
JOINT SEAL (MR 1/2")	26	LF

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


 DESIGN ENGINEER 8-4-15

DESIGN	BY Quang Vo	CHECKED A. Nojourni
DETAILS	BY Dale Kubochi	CHECKED A. Nojourni
QUANTITIES	BY Quang Vo	CHECKED A. Nojourni

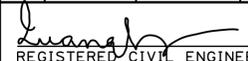
LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY Dale Kubochi
SPECIFICATIONS	BY Wanda L. Ward

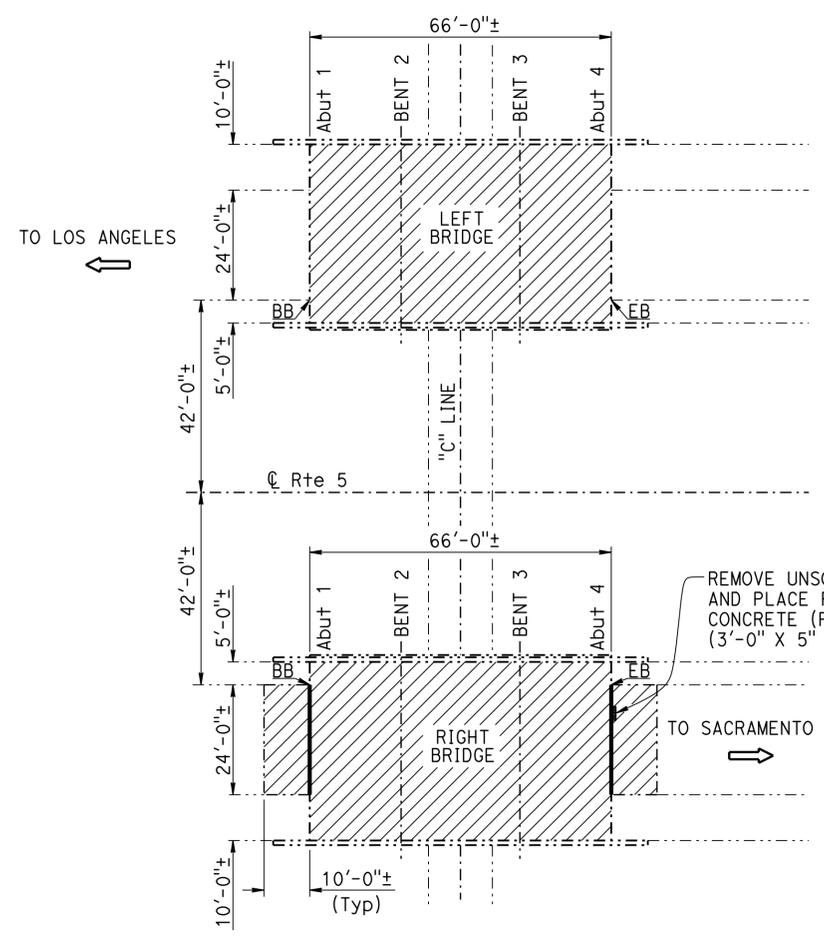
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

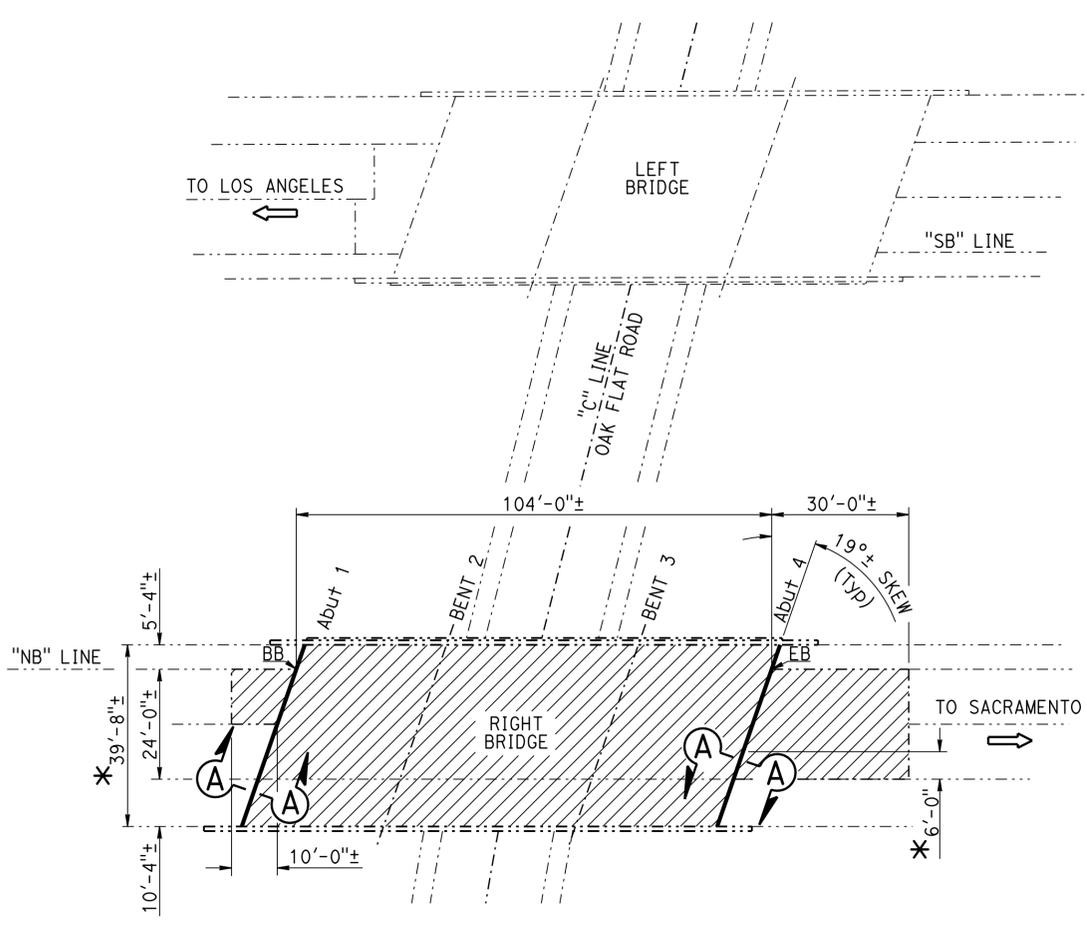
**ROUTE 5 BRIDGES
 GENERAL PLAN NO. 3**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta, Mer	5	Var	17	22
 REGISTERED CIVIL ENGINEER			8/5/15	DATE	
10-12-15 PLANS APPROVAL DATE					
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COVELL ROAD UNDERCROSSING

Br. No. 38-0115L/R, ROUTE 5, Sta, PM 11.22
1" = 20'



OAK FLAT ROAD UNDERCROSSING

Br. No. 38-0116R, ROUTE 5, Sta, PM 12.53
1" = 20'

- NOTES: (APPLY TO THIS SHEET ONLY)
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
 -  Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS" sheet.
 - * - Indicates limits for joint seal reconstruction.
 - For "Section A-A", see "JOINT SEAL DETAILS NO. 1" sheet.

COVELL ROAD UNDERCROSSING		BRIDGE NO 38-0115L/R	
QUANTITIES			
RAPID SETTING CONCRETE (PATCH)	0.4	CF	
REMOVE UNSOUND CONCRETE	0.4	CF	
PREPARE CONCRETE BRIDGE DECK SURFACE	5,628	SQFT	
TREAT BRIDGE DECK	5,628	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	63	GAL	
CLEAN EXPANSION JOINT	48	LF	
JOINT SEAL (MR 1/2")	48	LF	

OAK FLAT ROAD UNDERCROSSING		BRIDGE NO 38-0116R	
QUANTITIES			
PREPARE CONCRETE BRIDGE DECK SURFACE	5,000	SQFT	
TREAT BRIDGE DECK	5,000	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	56	GAL	
BRIDGE REMOVAL (PORTION)		LUMP SUM	
STRUCTURAL CONCRETE, BRIDGE	0.5	CY	
CLEAN EXPANSION JOINT	84	LF	
JOINT SEAL (MR 1/2")	84	LF	
BAR REINFORCING STEEL (BRIDGE)	119	LB	

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


DESIGN ENGINEER 8-4-15

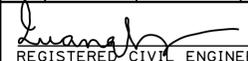
DESIGN	BY Quang Vo	CHECKED A. Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED A. Nojumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY Quang Vo	CHECKED A. Nojumi	SPECIFICATIONS	BY Wanda L. Ward

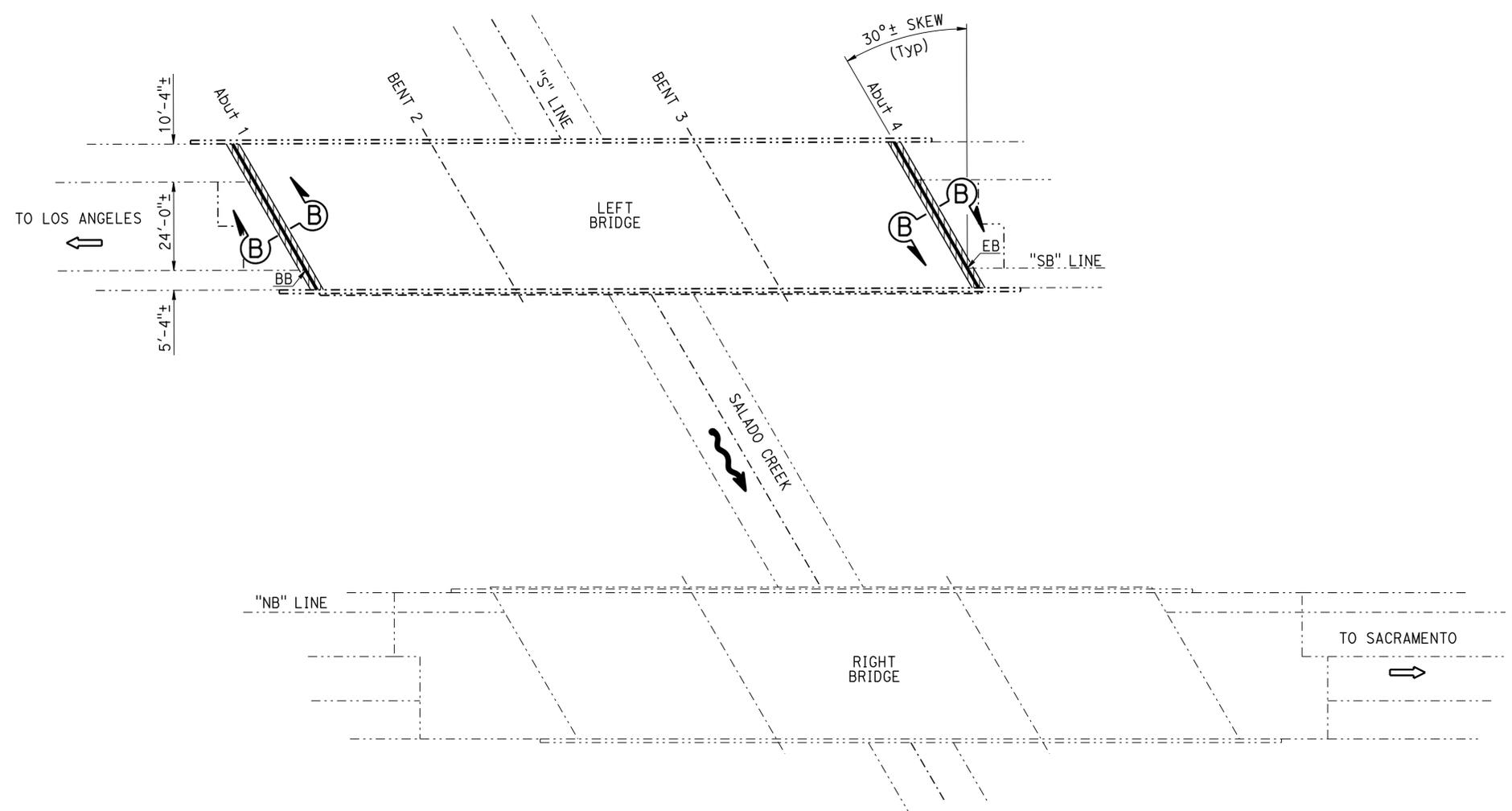
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5 BRIDGES GENERAL PLAN NO. 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta, Mer	5	Var	18	22
 REGISTERED CIVIL ENGINEER			8/5/15	DATE	
10-12-15 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.					

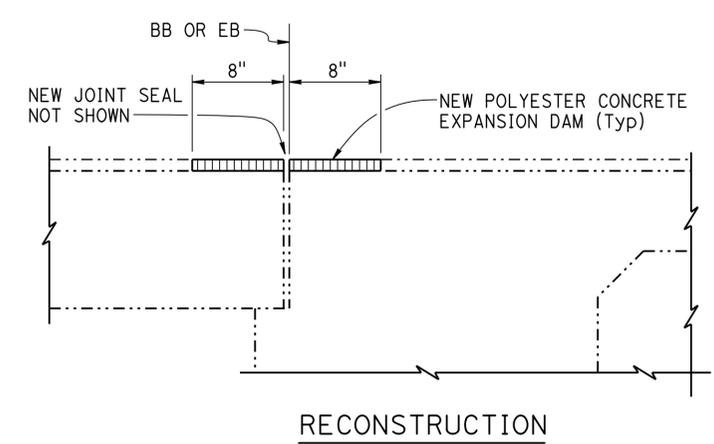
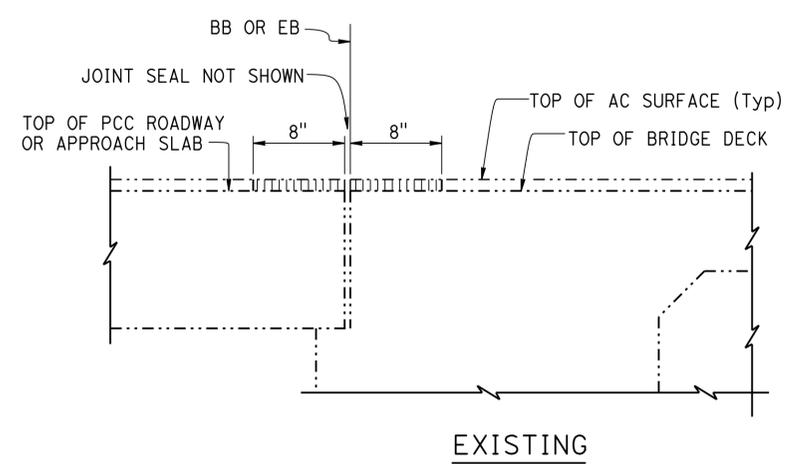


- NOTES: (APPLY TO THIS SHEET ONLY)
-  Indicates limits of remove 1"± AC surfacing and construct a 1"± thick polyester concrete expansion dam.
 -  Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS" sheet.



SALADO CREEK
 Br. No. 38-0117L, ROUTE 5, Sta, PM 12.68
 1" = 20'

SALADO CREEK	BRIDGE NO 38-0117L
QUANTITIES	
POLYESTER CONCRETE EXPANSION DAM	12 CF
CLEAN EXPANSION JOINT	93 LF
JOINT SEAL (MR 1")	93 LF



SECTION B-B
 1" = 1'-0"

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


 DESIGN ENGINEER 8-4-15

DESIGN	BY Quang Vo	CHECKED A. Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED A. Nojumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY Quang Vo	CHECKED A. Nojumi	SPECIFICATIONS	BY Wanda L. Ward

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5 BRIDGES
GENERAL PLAN NO. 5

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
 PROJECT NUMBER & PHASE: 1015000065

CONTRACT NO.: 10-1E1201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
1-28-15 7-28-15 8-4-15	5	9

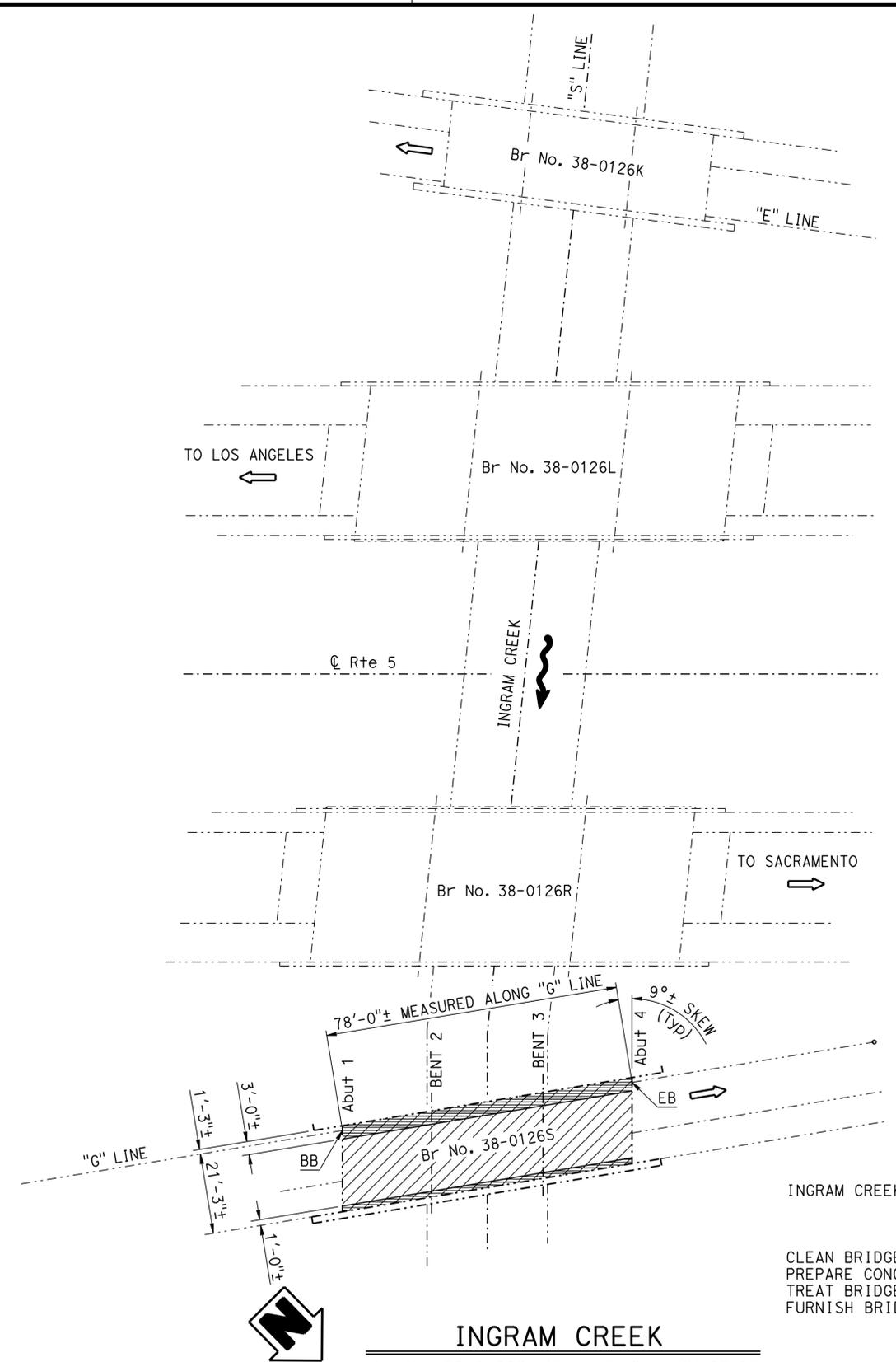
USERNAME => s120300 DATE PLOTTED => 13-OCT-2015 TIME PLOTTED => 14:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta, Mer	5	Var	19	22

REGISTERED CIVIL ENGINEER **Quang Vo** DATE 8/5/15
 PLANS APPROVAL DATE 10-12-15
 REGISTERED PROFESSIONAL ENGINEER
 QUANG M. VO
 No. C 055211
 Exp. 6-30-16
 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: (APPLY TO THIS SHEET ONLY)

-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
-  Indicates limits of remove 2"± accumulated dirt prior to concrete bridge deck surface preparation and treat bridge deck with high molecular weight methacrylate.
- ① Paint "KHALSA ROAD UC" and "Br No. 38-0127L"
- ② Paint "KHALSA ROAD UC" and "Br No. 38-0127R"



INGRAM CREEK

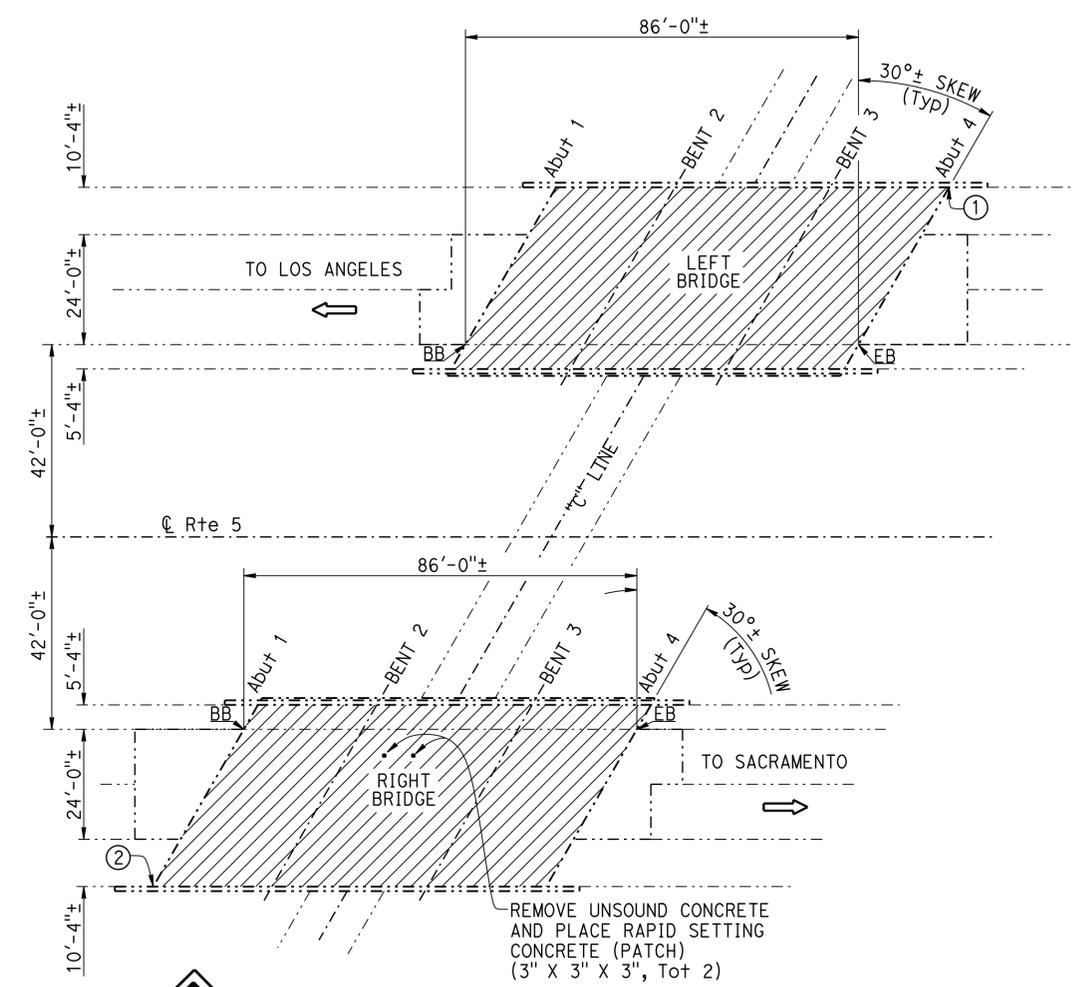
BRIDGE NO 38-0126S

QUANTITIES

CLEAN BRIDGE DECK OF ACCUMULATED DIRT AND DEBRIS	312	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	1,755	SQFT
TREAT BRIDGE DECK	1,755	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	20	GAL

INGRAM CREEK
 Br. No. 38-0126S, ROUTE 5, Sta, PM 23.07
 1" = 20'

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



KHALSA ROAD UNDERCROSSING

Br. No. 38-0127L/R, ROUTE 5, Sta, PM 25.53
 1" = 20'

QUANTITIES

KHALSA ROAD UNDERCROSSING	BRIDGE NO 38-0127L/R
PAINTE BRIDGE IDENTIFICATION	2 EA
RAPID SETTING CONCRETE (PATCH)	0.1 CF
REMOVE UNSOUND CONCRETE	0.1 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,823 SQFT
TREAT BRIDGE DECK	6,823 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	76 GAL

Matthew W. Lee
 DESIGN ENGINEER 8-4-15

DESIGN	BY Quang Vo	CHECKED A. Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED A. Nojumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY Quang Vo	CHECKED A. Nojumi	SPECIFICATIONS	BY Wanda L. Ward

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTE 5 BRIDGES
 GENERAL PLAN NO. 6**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488
 PROJECT NUMBER & PHASE: 1015000065 CONTRACT NO.: 10-1E1201

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
	1-27-15 1-28-15 8-4-15	6	9

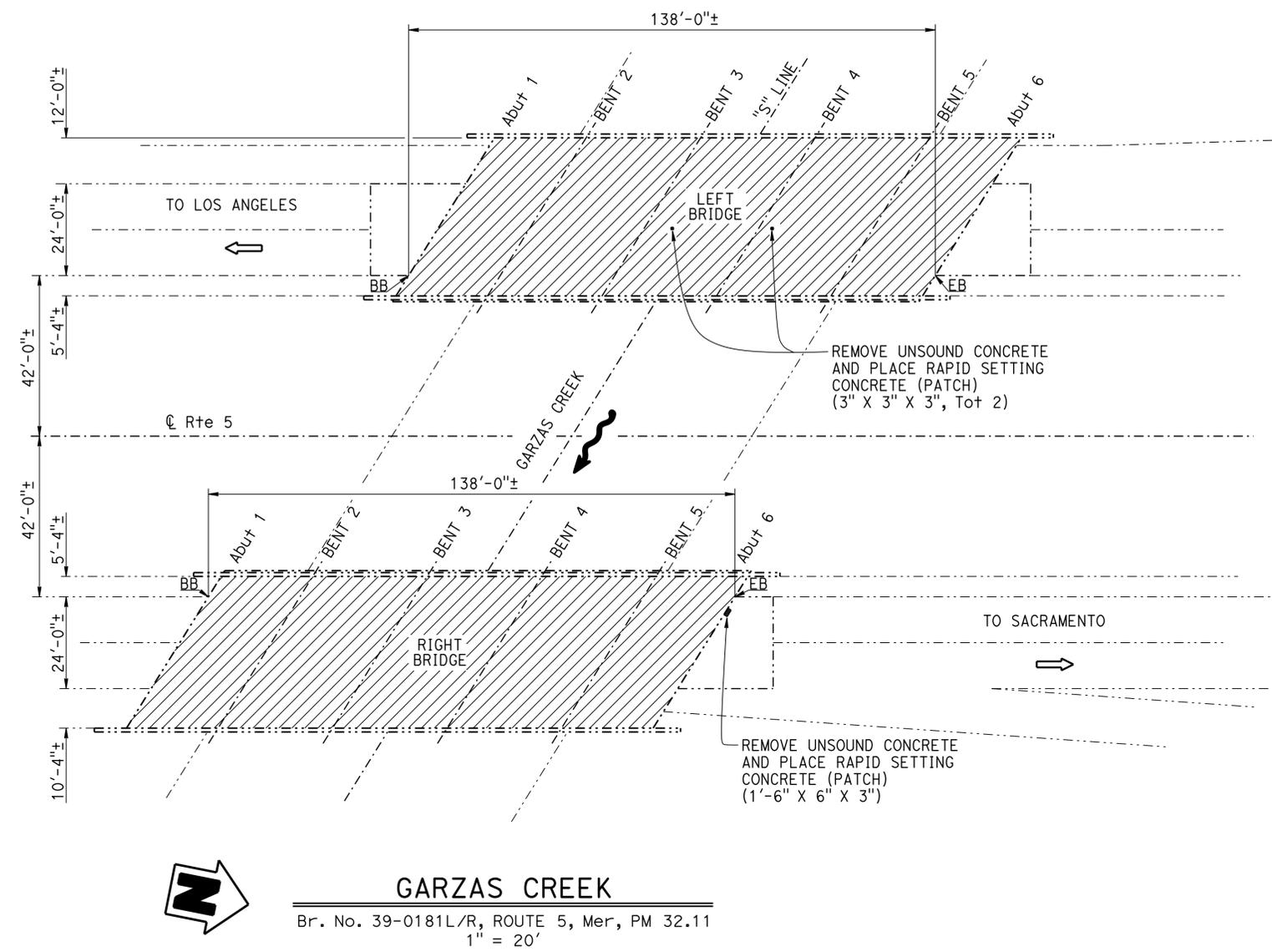
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta, Mer	5	Var	20	22

REGISTERED CIVIL ENGINEER *Quang Vo* DATE 8/5/15
 PLANS APPROVAL DATE 10-12-15
 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
 QUANG M. VO
 No. C 055211
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA



NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

GARZAS CREEK		BRIDGE NO 38-081L/R	
QUANTITIES			
RAPID SETTING CONCRETE (PATCH)	0.1	CF	
REMOVE UNSOUND CONCRETE	0.1	CF	
PREPARE CONCRETE BRIDGE DECK SURFACE	11,178	SQFT	
TREAT BRIDGE DECK	11,178	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	124	GAL	

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

Matthew Lee 8-4-15
DESIGN ENGINEER

DESIGN	BY Quang Vo	CHECKED A. Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED A. Nojumi	LAYOUT	BY Dale Kubochi
QUANTITIES	BY Quang Vo	CHECKED A. Nojumi	SPECIFICATIONS	BY Wanda L. Ward

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

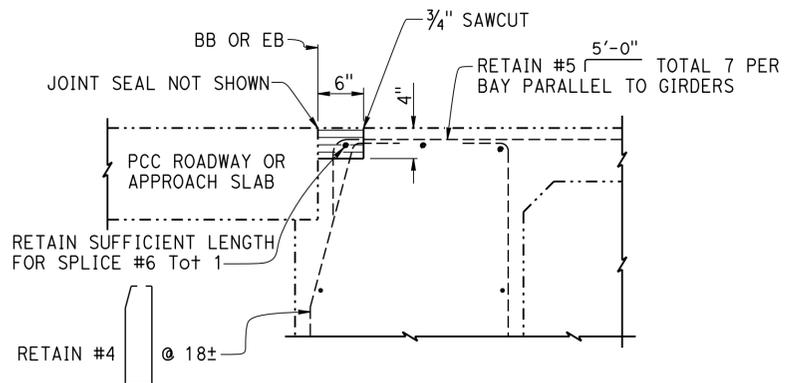
ROUTE 5 BRIDGES
GENERAL PLAN NO. 7

USERNAME => s120300 DATE PLOTTED => 13-OCT-2015 TIME PLOTTED => 14:50

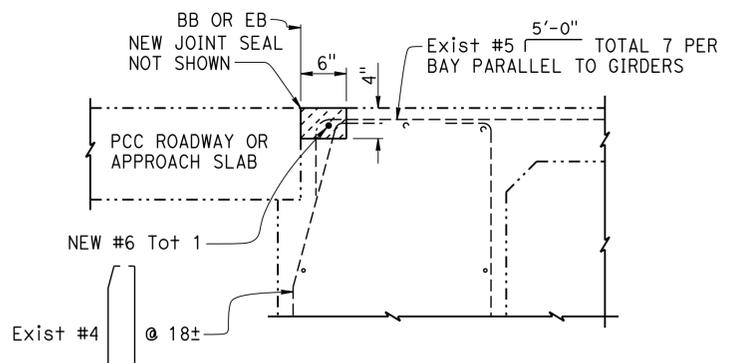
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta, Mer	5	Var	21	22
REGISTERED CIVIL ENGINEER			DATE	8/5/15	
PLANS APPROVAL DATE			10-12-15		
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NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates limits of bridge removal (portion)
- Indicates limits of structural concrete, bridge



EXISTING



RECONSTRUCTION

SECTION A-A
 1" = 1'-0"
 (Br No. 38-0116R)
 LOCATION A

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

TEMPORARY DECK PLATE		
MOMENT DEMAND/FOOT (kip-ft / ft)	BOLT SHEAR/FOOT (kip / ft)	BOLT TENSION (kip)
4	4	4

- 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 spacing shall not exceed 24".
 4. Anchorage washer shall be neoprene or similar.

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

DESIGN	BY	Quang Vo	CHECKED	A. Nojumi
DETAILS	BY	Dale Kubochi	CHECKED	A. Nojumi
QUANTITIES	BY	Quang Vo	CHECKED	A. Nojumi

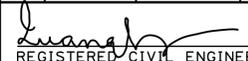
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

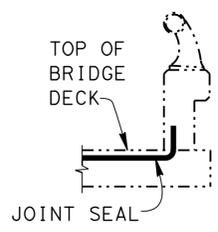
BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5 BRIDGES
JOINT SEAL DETAILS NO. 1

USERNAME => s120300 DATE PLOTTED => 13-OCT-2015 TIME PLOTTED => 14:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta, Mer	5	Var	22	22
			8/5/15		
REGISTERED CIVIL ENGINEER			DATE		
10-12-15			PLANS APPROVAL DATE		
					
<i>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.</i>					

JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
POVERTY FLAT ROAD UNDERCROSSING	38-0103L	Abut 1	BB	1/2 ✕	24	NO	15
		Abut 4	EB	1/2	24	NO	15
	38-0103R	Abut 1	BB	1/2	24	NO	15
		Abut 4	EB	1/2	24	NO	15
SHIELLS ROAD UNDERCROSSING	38-0104L	Abut 1	BB	1/2	25	NO	12
		Abut 4	EB	1/2	25	NO	12
ORESTIMBA CREEK	38-0107L	Abut 1	BB	1 ✕	27	NO	12
		Abut 7	EB	1 ✕	27	NO	12
FINK ROAD UNDERCROSSING	38-0114R	Abut 4	EB	1/2	26	NO	12
COVELL ROAD UNDERCROSSING	38-0115R	Abut 1	BB	1/2	24	NO	12
		Abut 4	EB	1/2	24	NO	12
OAK FLAT ROAD UNDERCROSSING	38-0116R	Abut 1	BB	1/2	42	NO	12
		Abut 4	EB	1/2	42	NO	12
SALADO CREEK	38-0117L	Abut 1	BB	1	47	NO	12
		Abut 4	EB	1	47	NO	12



BARRIER RAIL

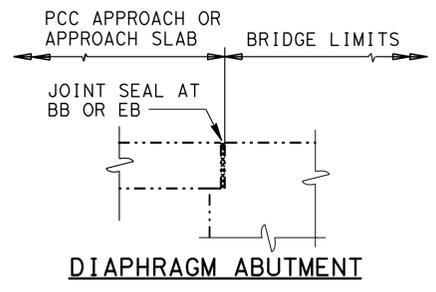
JOINT SEAL AT LOW SIDE OF DECK

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

- 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 must 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 

- The following notes apply to JOINT SEAL TYPE A:
- Install Type A joint seal 3" up into rail on the low side of deck where joint matches curb or rail joint.
 - For details not shown, see 

LEGEND:
 BB - Beginning of bridge
 EB - End of bridge
 ✕ - Use Type B Joint Seal only.



JOINT SEAL LOCATION

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

DESIGN	BY Quang Vo	CHECKED A. Nojumi
DETAILS	BY Dale Kubochi	CHECKED A. Nojumi
QUANTITIES	BY Quang Vo	CHECKED A. Nojumi

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5 BRIDGES
JOINT SEAL DETAILS NO. 2