

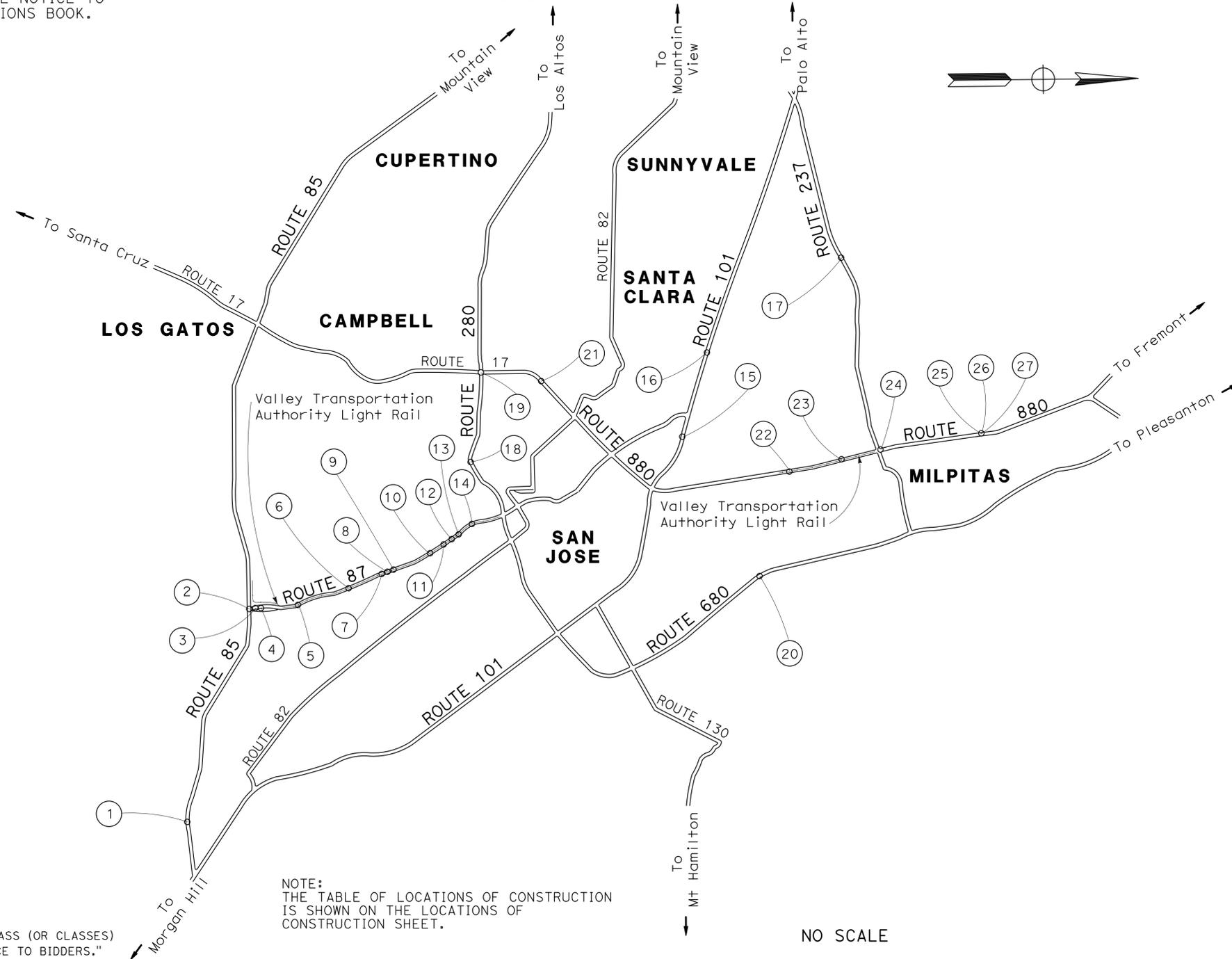
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	LOCATIONS OF CONSTRUCTION
3	TEMPORARY WATER POLLUTION CONTROL QUANTITIES
4 - 14	CONSTRUCTION AREA SIGNS
15 - 17	PAVEMENT DELINEATION QUANTITIES
18 - 25	REVISED STANDARD PLANS
	STRUCTURE PLANS
26 - 35	GENERAL PLANS
36 - 37	MISCELLANEOUS DETAILS
38	JOINT SEAL DETAILS

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 SANTA CLARA COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



NOTE:
 THE TABLE OF LOCATIONS OF CONSTRUCTION IS SHOWN ON THE LOCATIONS OF CONSTRUCTION SHEET.

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	1	38

LOCATION MAP

PROJECT MANAGER
RAMSES SARGISS
 DESIGN MANAGER
RAMSES SARGISS

PROJECT ENGINEER DATE 3-2-16
 REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER

John C. Hemingway

No. 47384

Exp. 12-31-17

CIVIL

STATE OF CALIFORNIA

March 28, 2016
 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.

LAST REVISION: 03-28-16 TIME PLOTTED => 08:12 DATE PLOTTED => 05-APR-2016

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	2	38

John C. Hemip 3-3-16
 REGISTERED CIVIL ENGINEER DATE

3-28-16
 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
 John C. Hemip
 No. 47384
 Exp. 2-31-17
 CIVIL
 STATE OF CALIFORNIA

LOCATIONS OF CONSTRUCTION

LOCATION	ROUTE	PM	BRIDGE NAME	BRIDGE No.
①	85	0.93	MANASSAS ROAD UC	37 0489L
	85	0.93	MANASSAS ROAD UC	37 0489R
②	85	5.20	SANTA TERESA Blvd OH	37 0484R
③	87	0.10	S87-S85 CONNECTOR OC	37 0414F
④	87	0.21	CHYNOWETH AVENUE OH	37 0414K
⑤	87	0.90	BRANHAM LANE OC	37 0441
⑥	87	1.92	CANOAS CREEK	37 0417L
	87	1.92	CANOAS CREEK	37 0417R
⑦	87	2.64	MASONIC DRIVE UC	37 0418L
	87	2.64	MASONIC DRIVE UC	37 0418R
⑧	87	2.71	CURTNER STATION PUC	37 0433L
⑨	87	2.84	CURTNER AVENUE UC	37 0362L
	87	2.84	CURTNER AVENUE UC	37 0362R
⑩	87	3.58	ALMADEN ROAD UC	37 0366L
	87	3.58	ALMADEN ROAD UC	37 0366R
⑪	87	3.88	ALMA OH	37 0420L
⑫	87	4.07	ALMA AVENUE UC	37 0368R
⑬	87	4.23	ALMA STATION UC	37 0421R
⑭	87	4.55	WILLOW STREET VIADUCT	37 0422R
⑮	101	39.44	BROKAW ROAD UC	37 0490
⑯	101	41.08	LAFAYETTE STREET OC	37 0391
⑰	237	R5.68	SAN TOMAS AQUINO CREEK	37 0159L
⑱	280	R3.76	RACE STREET OC	37 0260
⑲	280	L5.49	MOORPARK AVENUE UC	37 0188F
⑳	680	M4.78	HOSTETTER ROAD UC	37 0296
㉑	880	1.25	BASCOM AVENUE UC	37 0126
㉒	880	6.69	MONTAGUE EXPRESSWAY OC	37 0375
㉓	880	7.68	TASMAN DRIVE (EB) OC	37 0426R
	880	7.70	TASMAN DRIVE (WB) OC	37 0426L
㉔	880	8.45	S880-W237 CONNECTOR SEPARATION	37 0570F
㉕	880	10.38	PENITENCIA CREEK	37 0582
㉖	880	10.38	PENITENCIA CREEK ON-RAMP	37 0582K
㉗	880	10.42	DIXON LANDING Rd OC	37 0581

LOCATIONS OF CONSTRUCTION

LC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR
 RAMSES SARGISS
 CALCULATED/DESIGNED BY
 CHECKED BY
 PATRICK HO
 JOHN HEMIUP
 REVISED BY
 DATE REVISED
 PH
 3-3-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

BORDER LAST REVISED 7/2/2010

USERNAME => s133460
 DGN FILE => 0414000468gd001.dgn

RELATIVE BORDER SCALE IS IN INCHES

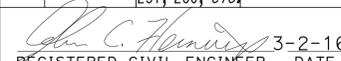


UNIT 0974

PROJECT NUMBER & PHASE

04140004681

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	3	38


 REGISTERED CIVIL ENGINEER DATE 3-2-16
 3-28-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 John C. Hemip
 No. 47384
 Exp. 2-31-17
 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.

TEMPORARY WATER POLLUTION CONTROL QUANTITY

ITEM	EA
TEMPORARY DRAINAGE INLET PROTECTION	6

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

WPCQ-1

LAST REVISION | DATE PLOTTED => 05-APR-2016
 03-28-16 | TIME PLOTTED => 08:12

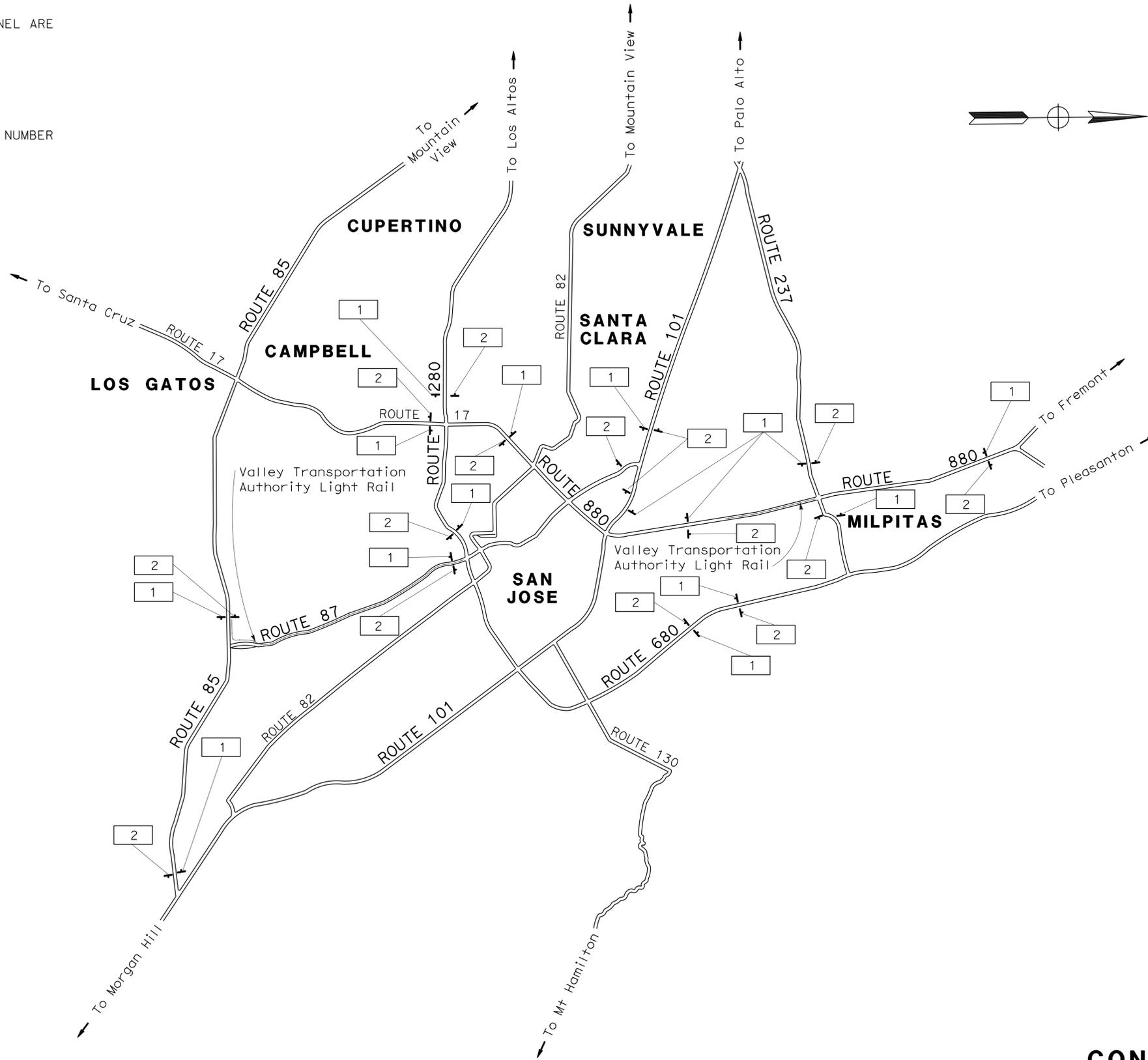
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	STEVEN LAU	REVISOR	SL
Caltrans	ROLAND AU-YEUNG	CHECKED BY	RAJESH OBEROI	DATE	3-3-16

NOTES:

1. EXACT LOCATION AND POSITION OF SIGNS TO BE DETERMINED BY THE ENGINEER.
2. DIMENSIONS FOR SIGN PANEL AND POST ARE IN INCHES.
3. LETTERING SIZES FOR SIGN PANEL ARE IN INCHES.

LEGEND:

No. CONSTRUCTION AREA SIGN NUMBER



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	4	38

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Rajesh Oberoi
 No. 46046
 Exp. 12-31-16
 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.

CONSTRUCTION AREA SIGNS
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1



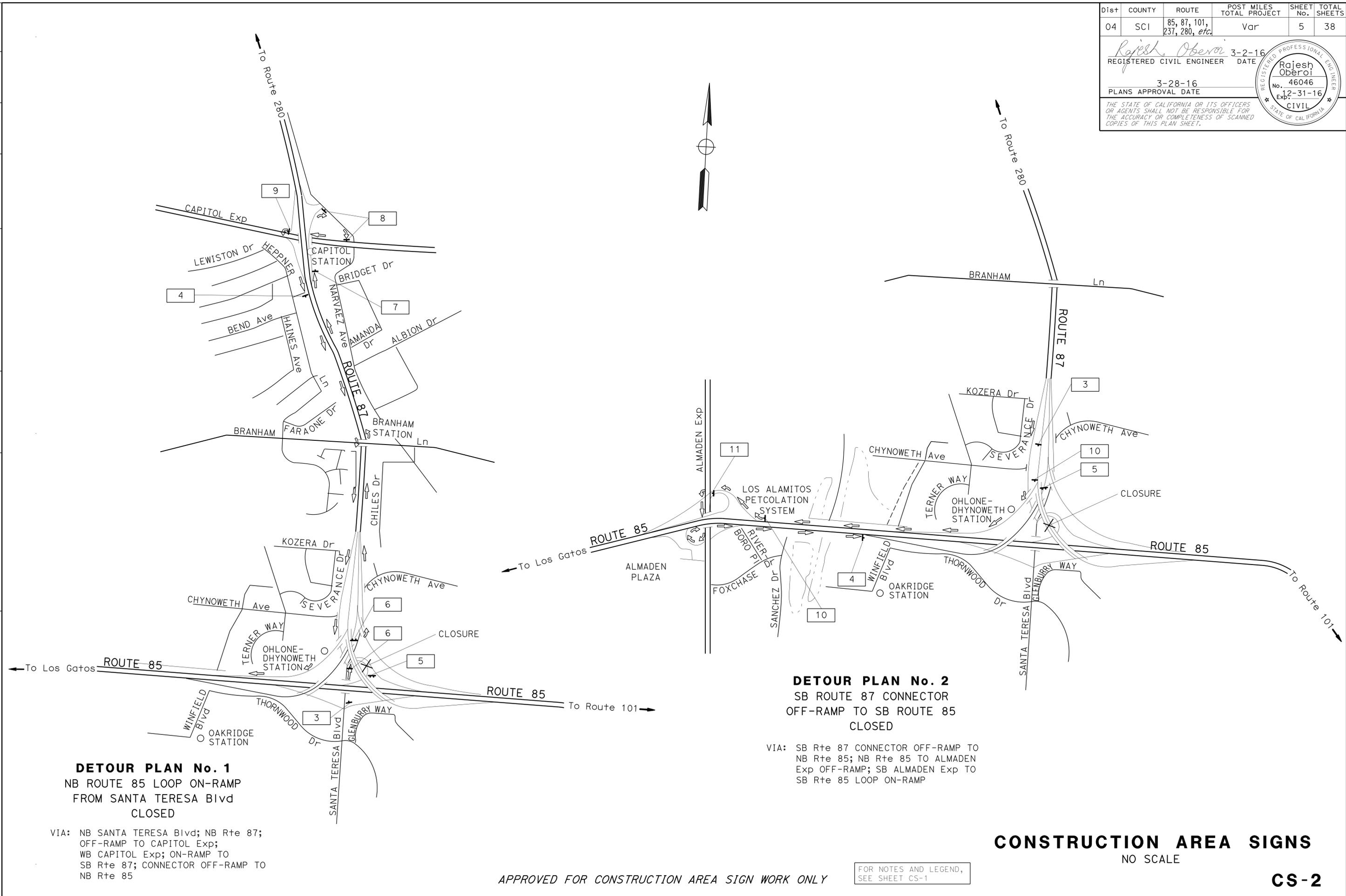
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	5	38

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Rajesh Oberoi
 No. 46046
 Exp. 12-31-16
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
TRAFFIC	ROLAND AU-YEUNG	STEVEN LAU	3-3-16
	CHECKED BY	DESIGNED BY	
		RAJESH OBEROI	



DETOUR PLAN No. 1
 NB ROUTE 85 LOOP ON-RAMP
 FROM SANTA TERESA Blvd
 CLOSED

VIA: NB SANTA TERESA Blvd; NB Rte 87;
 OFF-RAMP TO CAPITOL Exp;
 WB CAPITOL Exp; ON-RAMP TO
 SB Rte 87; CONNECTOR OFF-RAMP TO
 NB Rte 85

DETOUR PLAN No. 2
 SB ROUTE 87 CONNECTOR
 OFF-RAMP TO SB ROUTE 85
 CLOSED

VIA: SB Rte 87 CONNECTOR OFF-RAMP TO
 NB Rte 85; NB Rte 85 TO ALMADEN
 Exp OFF-RAMP; SB ALMADEN Exp TO
 SB Rte 85 LOOP ON-RAMP

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

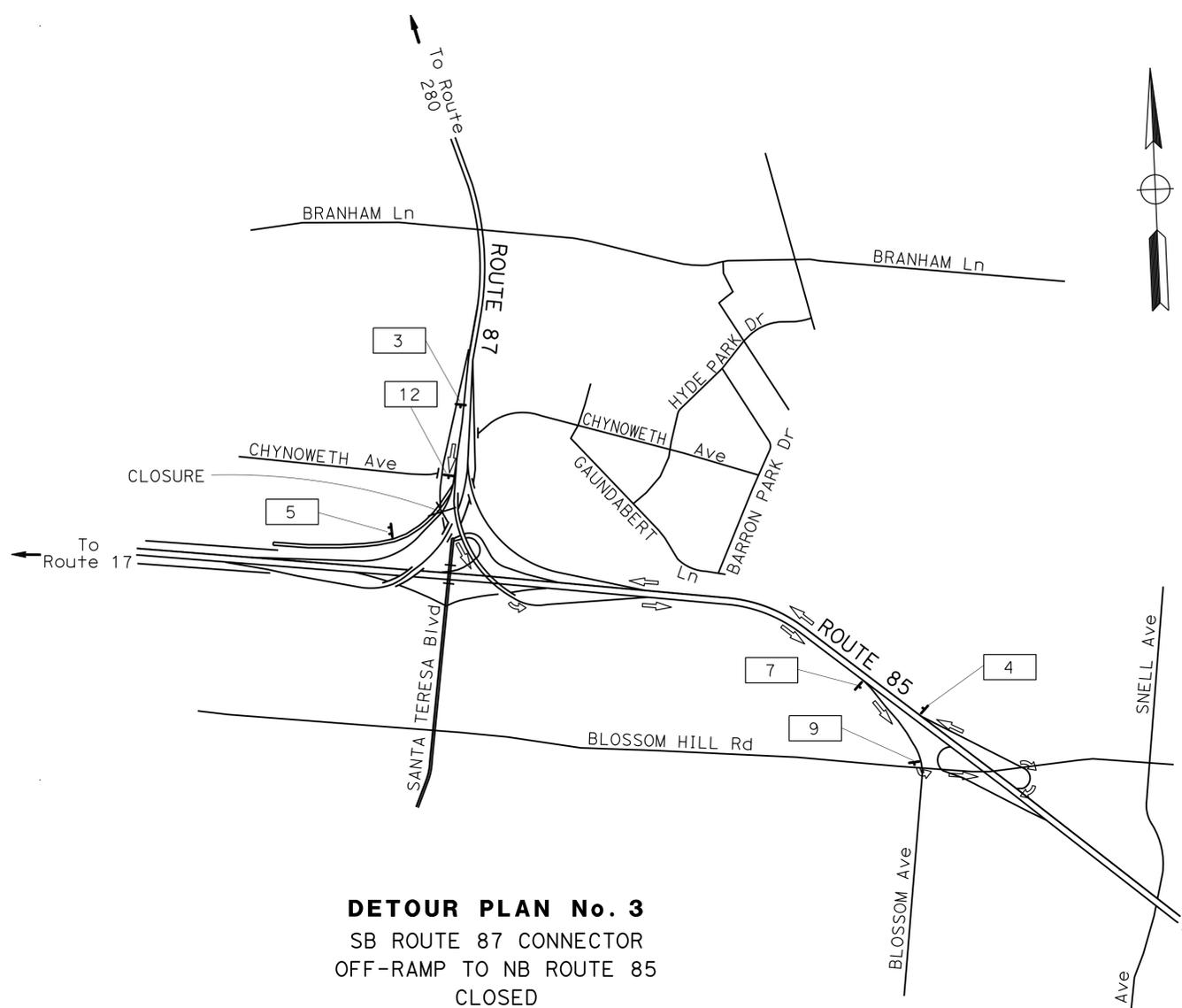
FOR NOTES AND LEGEND,
 SEE SHEET CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	6	38

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 PLANS APPROVAL DATE

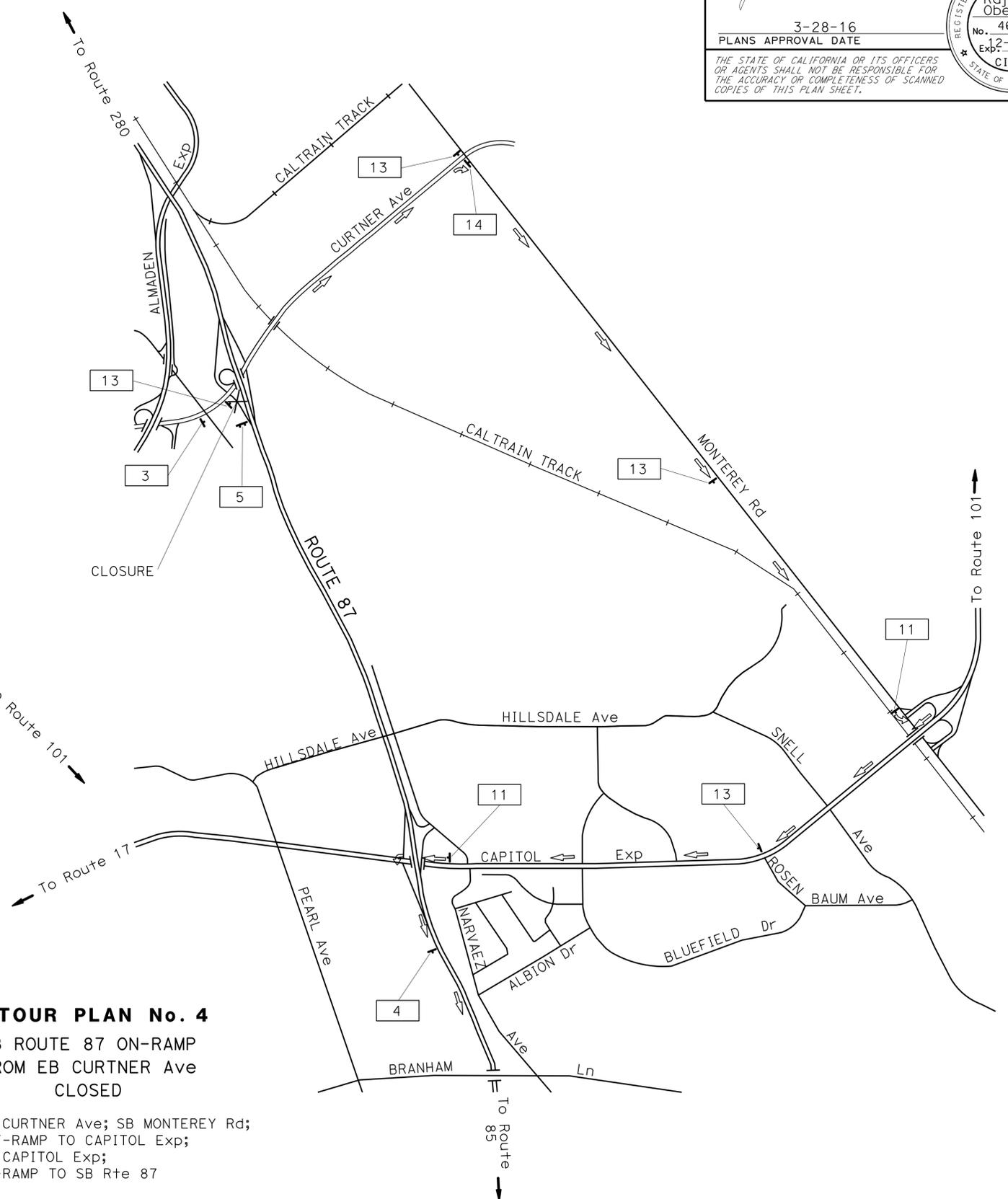
REGISTERED PROFESSIONAL ENGINEER
Rajesh Oberoi
 No. 46046
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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.



DETOUR PLAN No. 3
 SB ROUTE 87 CONNECTOR
 OFF-RAMP TO NB ROUTE 85
 CLOSED

VIA: SB Rte 87 CONNECTOR;
 OFF-RAMP TO SB Rte 85;
 OFF-RAMP TO BLOSSOM HILL Rd;
 EB BLOSSOM HILL Rd;
 ON-RAMP TO NB Rte 85



DETOUR PLAN No. 4
 SB ROUTE 87 ON-RAMP
 FROM EB CURTNER Ave
 CLOSED

VIA: EB CURTNER Ave; SB MONTEREY Rd;
 OFF-RAMP TO CAPITOL Exp;
 WB CAPITOL Exp;
 ON-RAMP TO SB Rte 87

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-3

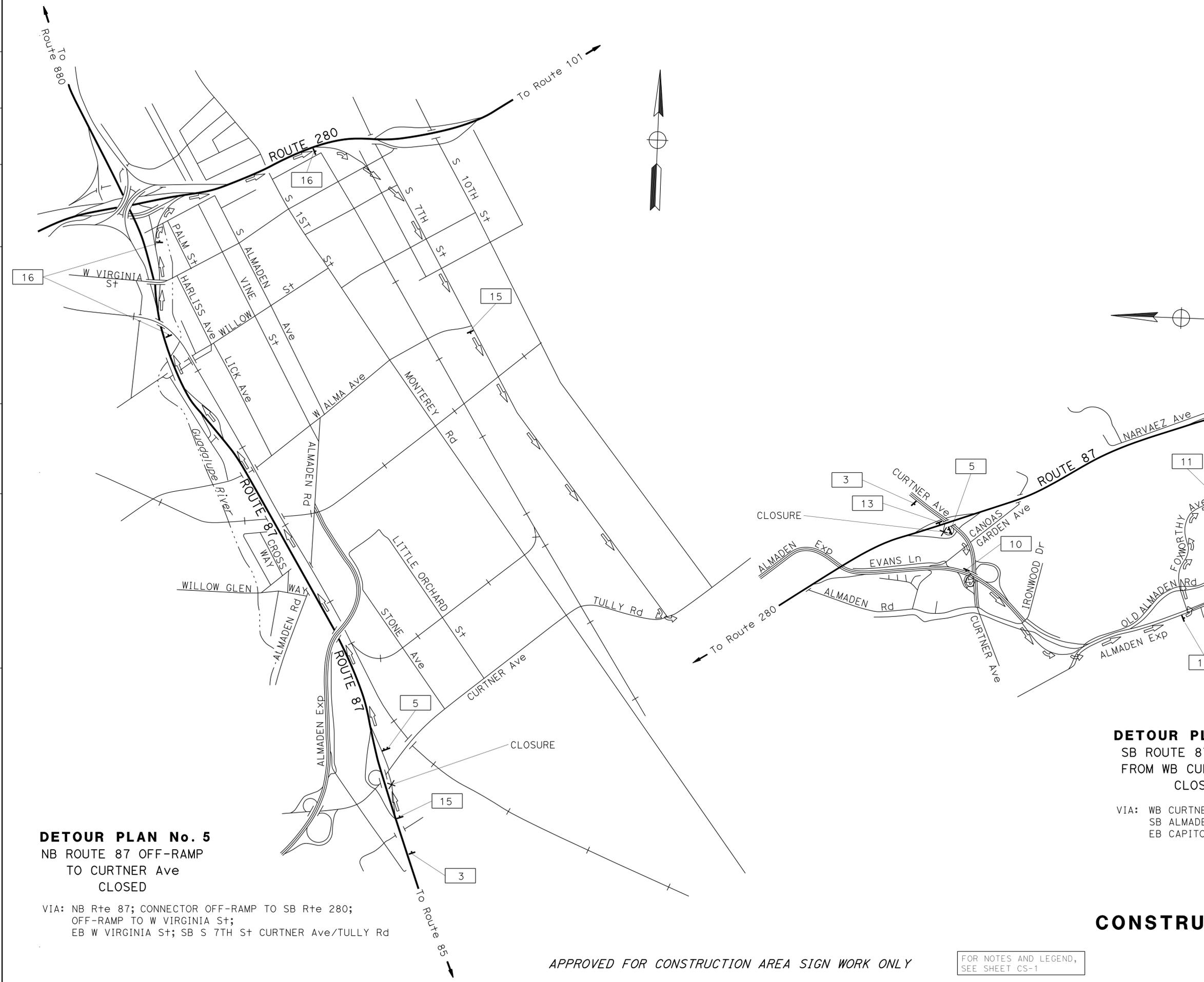
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET CS-1



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	ROLAND AU-YEUNG	STEVEN LAU	3-3-16
TRAFFIC		RAJESH OBEROI	
		CALCULATED/DESIGNED BY	
		CHECKED BY	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 TRAFFIC



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	7	38

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 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
Rajesh Oberoi
 No. 46046
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

DETOUR PLAN No. 5
 NB ROUTE 87 OFF-RAMP TO CURTNER Ave CLOSED
 VIA: NB Rte 87; CONNECTOR OFF-RAMP TO SB Rte 280; OFF-RAMP TO W VIRGINIA St; EB W VIRGINIA St; SB S 7TH St CURTNER Ave/TULLY Rd

DETOUR PLAN No. 6
 SB ROUTE 87 ON-RAMP FROM WB CURTNER Ave CLOSED
 VIA: WB CURTNER Ave TO ALMADEN Exp LOOP OFF-RAMP SB ALMADEN Exp; SB FOXWORTHY/PEARL Ave; EB CAPITOL Exp

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-4

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

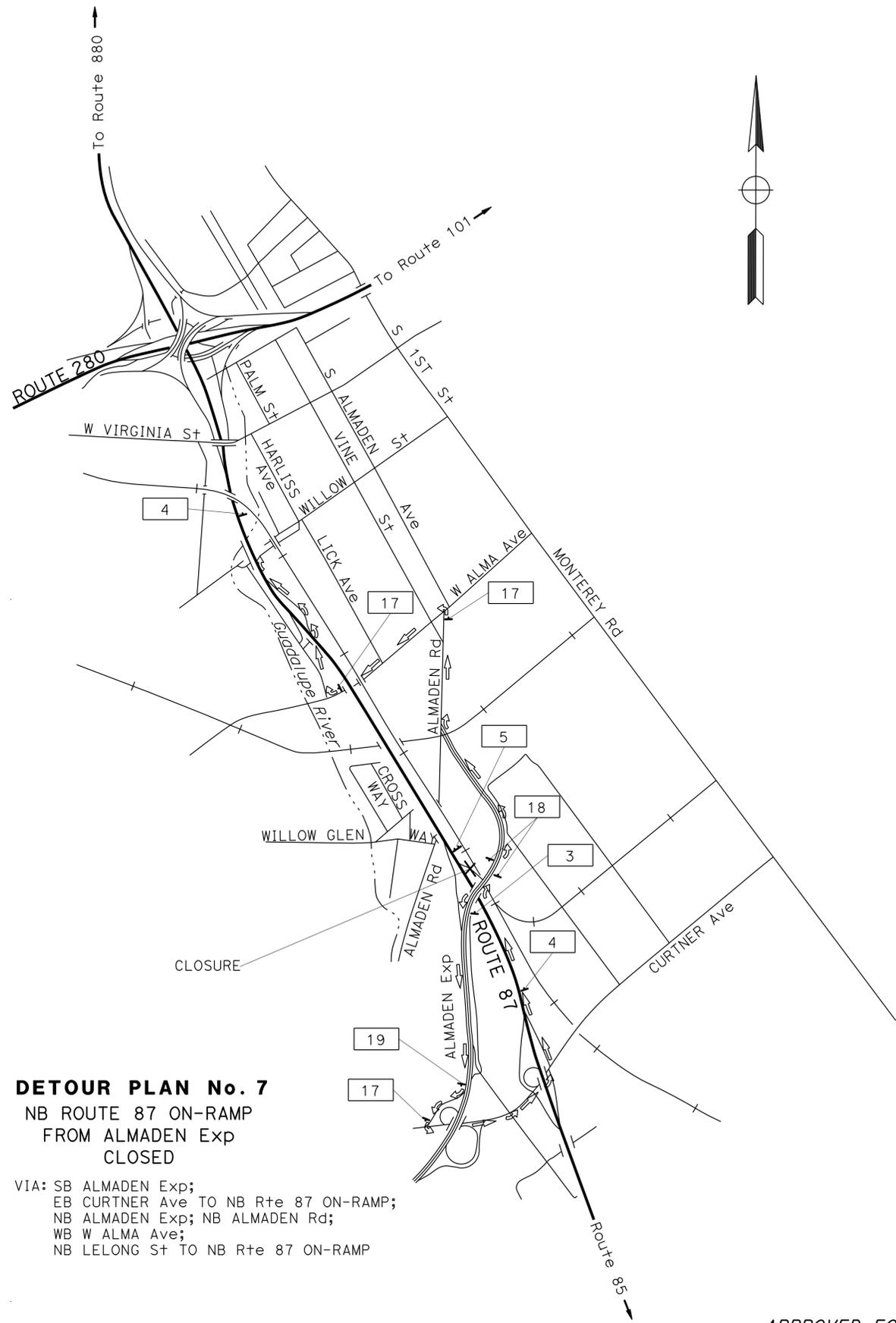
FOR NOTES AND LEGEND, SEE SHEET CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: CHECKED BY:
 STEVEN LAU RAJESH OBEROI
 REVISED BY: DATE REVISED: 3-3-16
 SL

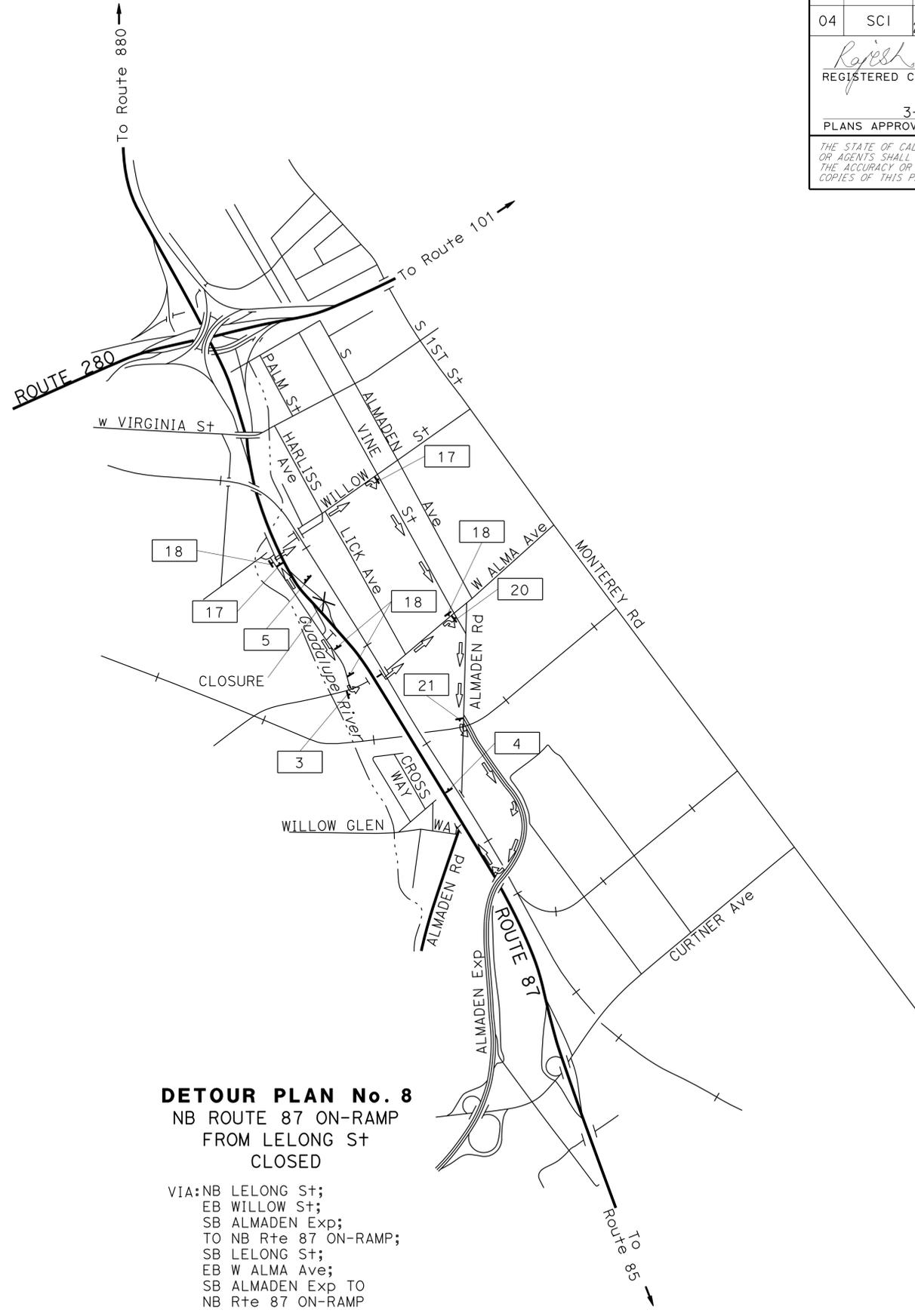
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	8	38

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 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
Rajesh Oberoi
 No. 46046
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA



DETOUR PLAN No. 7
 NB ROUTE 87 ON-RAMP FROM ALMADEN Exp CLOSED
 VIA: SB ALMADEN Exp;
 EB CURTNER Ave TO NB Rte 87 ON-RAMP;
 NB ALMADEN Exp; NB ALMADEN Rd;
 WB W ALMA Ave;
 NB LELONG St TO NB Rte 87 ON-RAMP



DETOUR PLAN No. 8
 NB ROUTE 87 ON-RAMP FROM LELONG St CLOSED
 VIA: NB LELONG St;
 EB WILLOW St;
 SB ALMADEN Exp;
 TO NB Rte 87 ON-RAMP;
 SB LELONG St;
 EB W ALMA Ave;
 SB ALMADEN Exp TO NB Rte 87 ON-RAMP



CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CS-5

LAST REVISION: DATE PLOTTED => 05-APR-2016
 03-28-16 TIME PLOTTED => 08:12

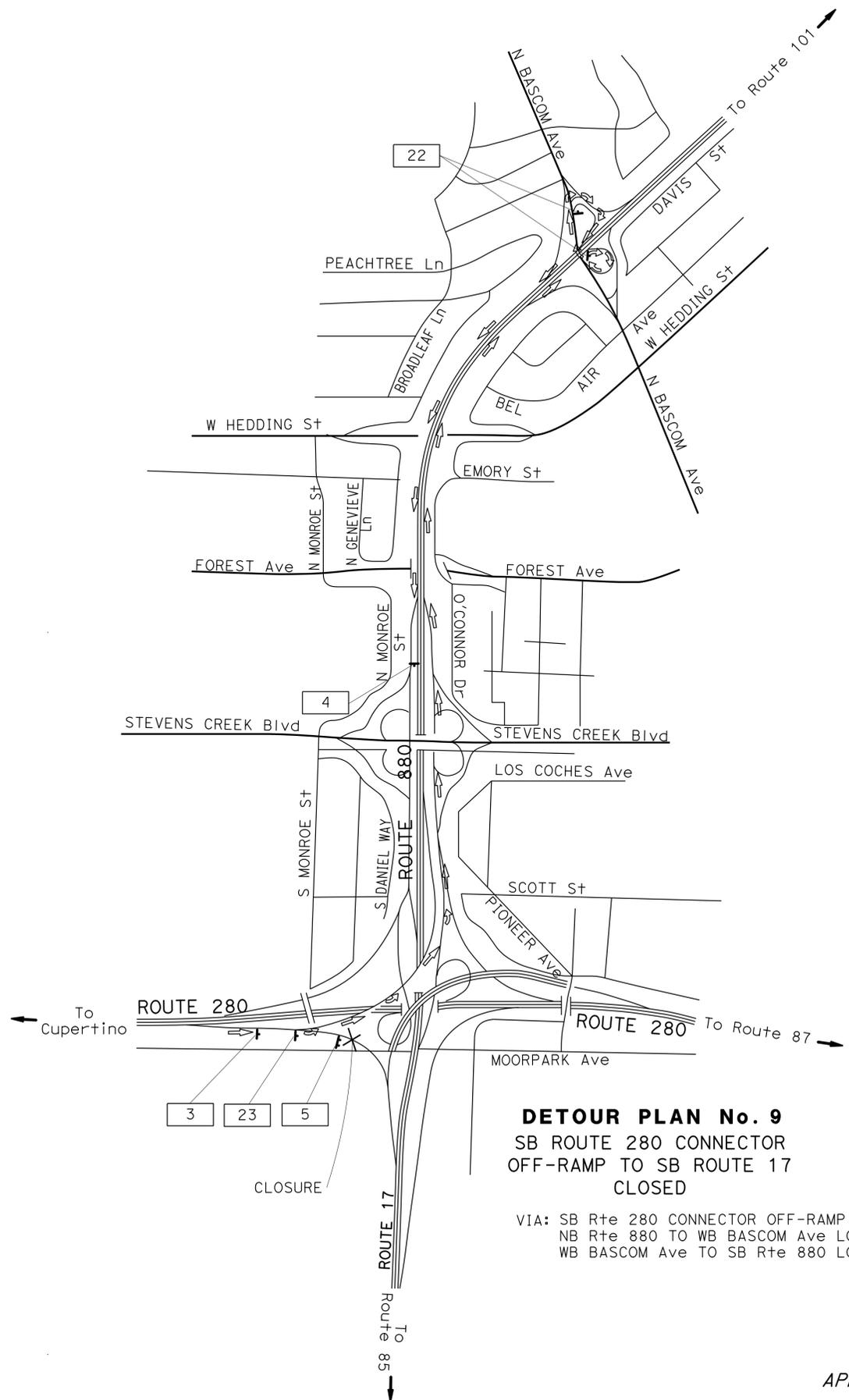
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	9	38

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 PLANS APPROVAL DATE

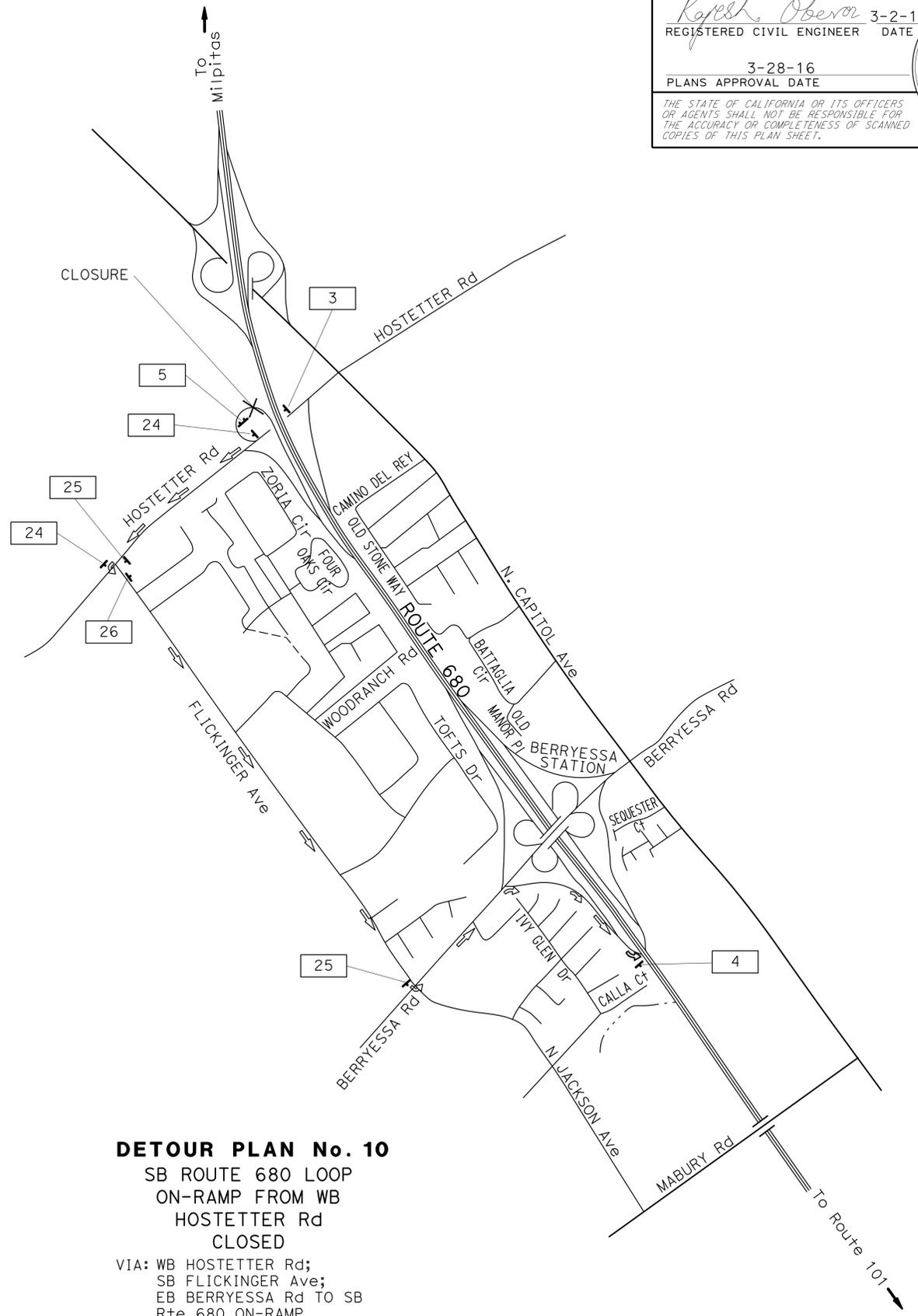
REGISTERED PROFESSIONAL ENGINEER
Rajesh Oberoi
 No. 46046
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: CHECKED BY:
 STEVEN LAU RAJESH OBEROI
 REVISED BY: DATE REVISED: 3-3-16
 SL



DETOUR PLAN No. 9
 SB ROUTE 280 CONNECTOR
 OFF-RAMP TO SB ROUTE 17
 CLOSED
 VIA: SB Rte 280 CONNECTOR OFF-RAMP TO NB Rte 880;
 NB Rte 880 TO WB BASCOM Ave LOOP OFF-RAMP;
 WB BASCOM Ave TO SB Rte 880 LOOP ON-RAMP



DETOUR PLAN No. 10
 SB ROUTE 680 LOOP
 ON-RAMP FROM WB
 HOSTETTER Rd
 CLOSED
 VIA: WB HOSTETTER Rd;
 SB FLICKINGER Ave;
 EB BERRYESSA Rd TO SB
 Rte 680 ON-RAMP

CONSTRUCTION AREA SIGNS
 NO SCALE

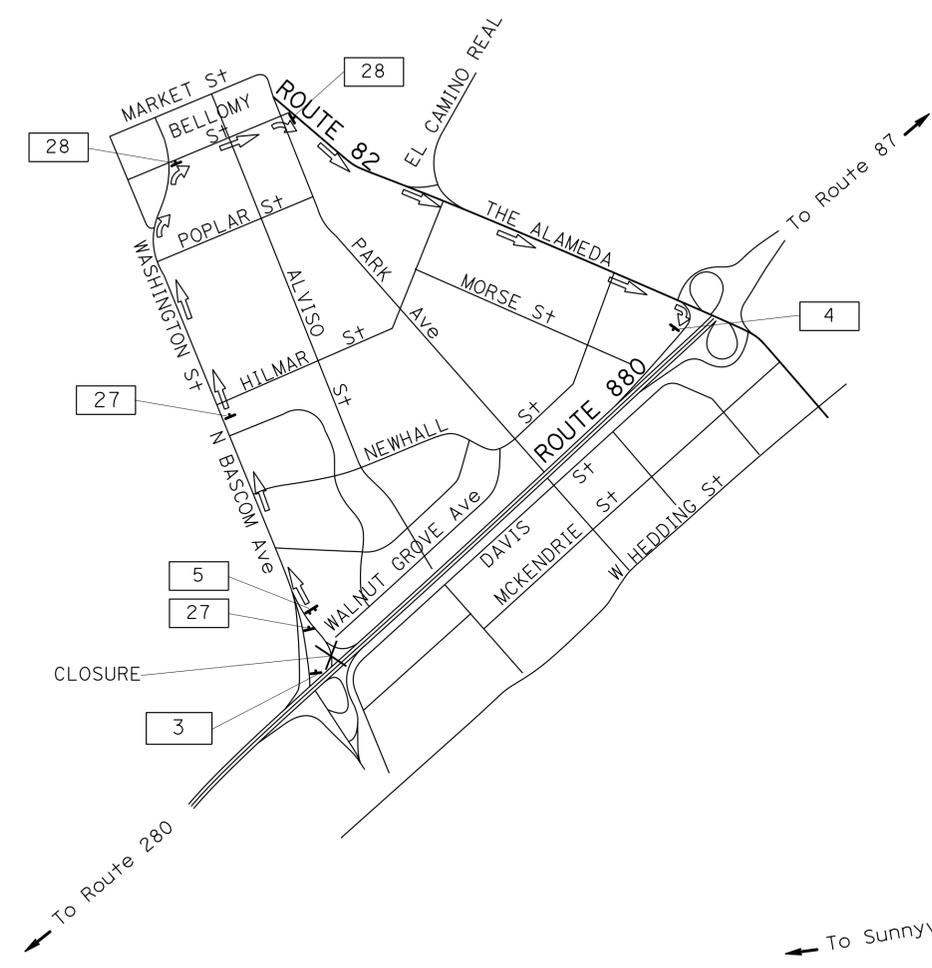
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CS-6

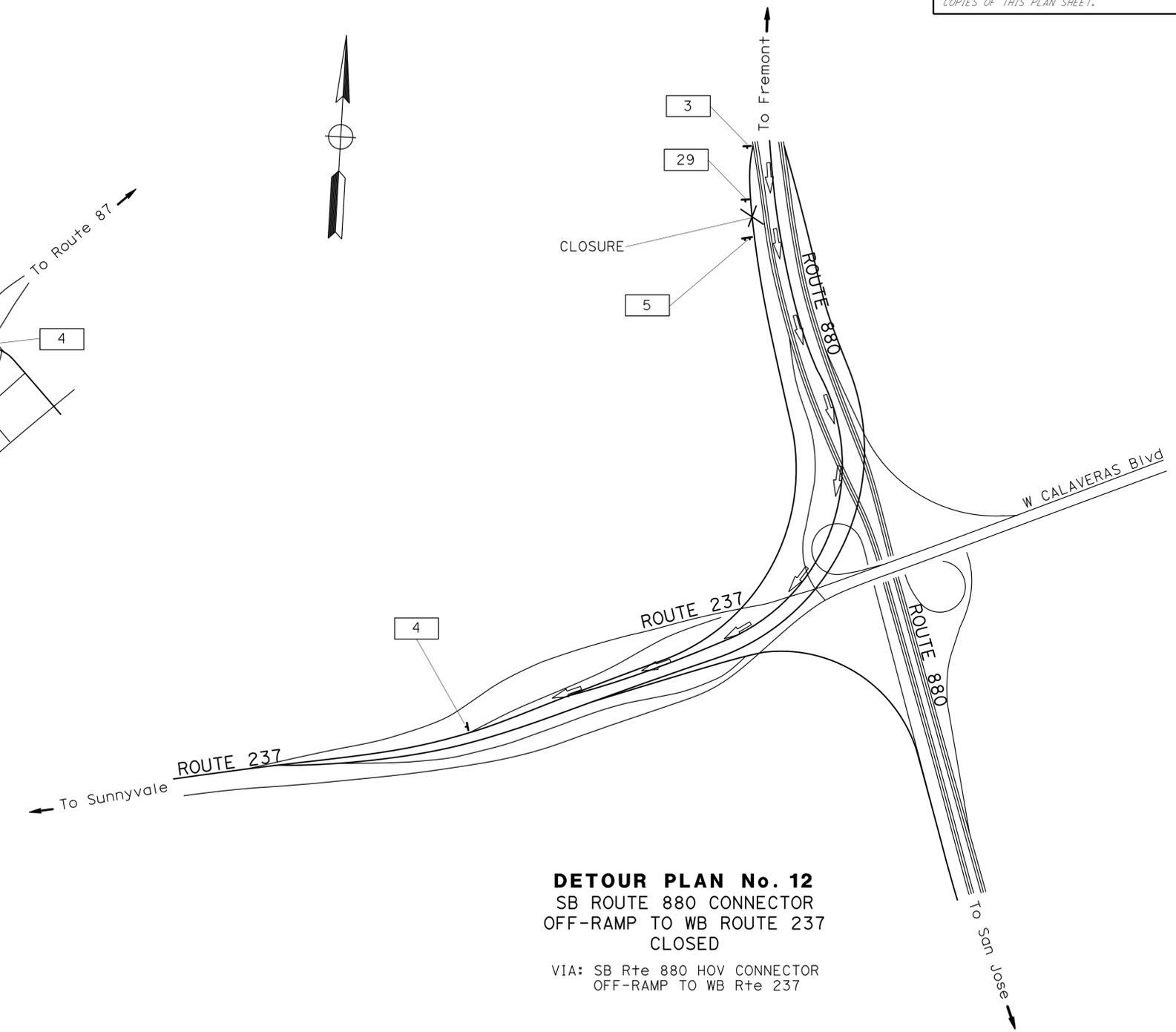
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	10	38
<i>Rajesh Oberoi</i> REGISTERED CIVIL ENGINEER			DATE	3-2-16	
PLANS APPROVAL DATE			DATE	3-28-16	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans	ROLAND AU-YEUNG	STEVEN LAU	SL	3-3-16
TRAFFIC		RAJESH OBEROI		



DETOUR PLAN No. 11
 SB ROUTE 880 LOOP ON-RAMP
 FROM WB N BASCOM Ave
 CLOSED

VIA: WB N BASCOM Ave/WASHINGTON St;
 EB BELLOMY St; SB THE ALAMEDA (Rte 82)
 TO SB Rte 880 ON-RAMP



DETOUR PLAN No. 12
 SB ROUTE 880 CONNECTOR
 OFF-RAMP TO WB ROUTE 237
 CLOSED

VIA: SB Rte 880 HOV CONNECTOR
 OFF-RAMP TO WB Rte 237

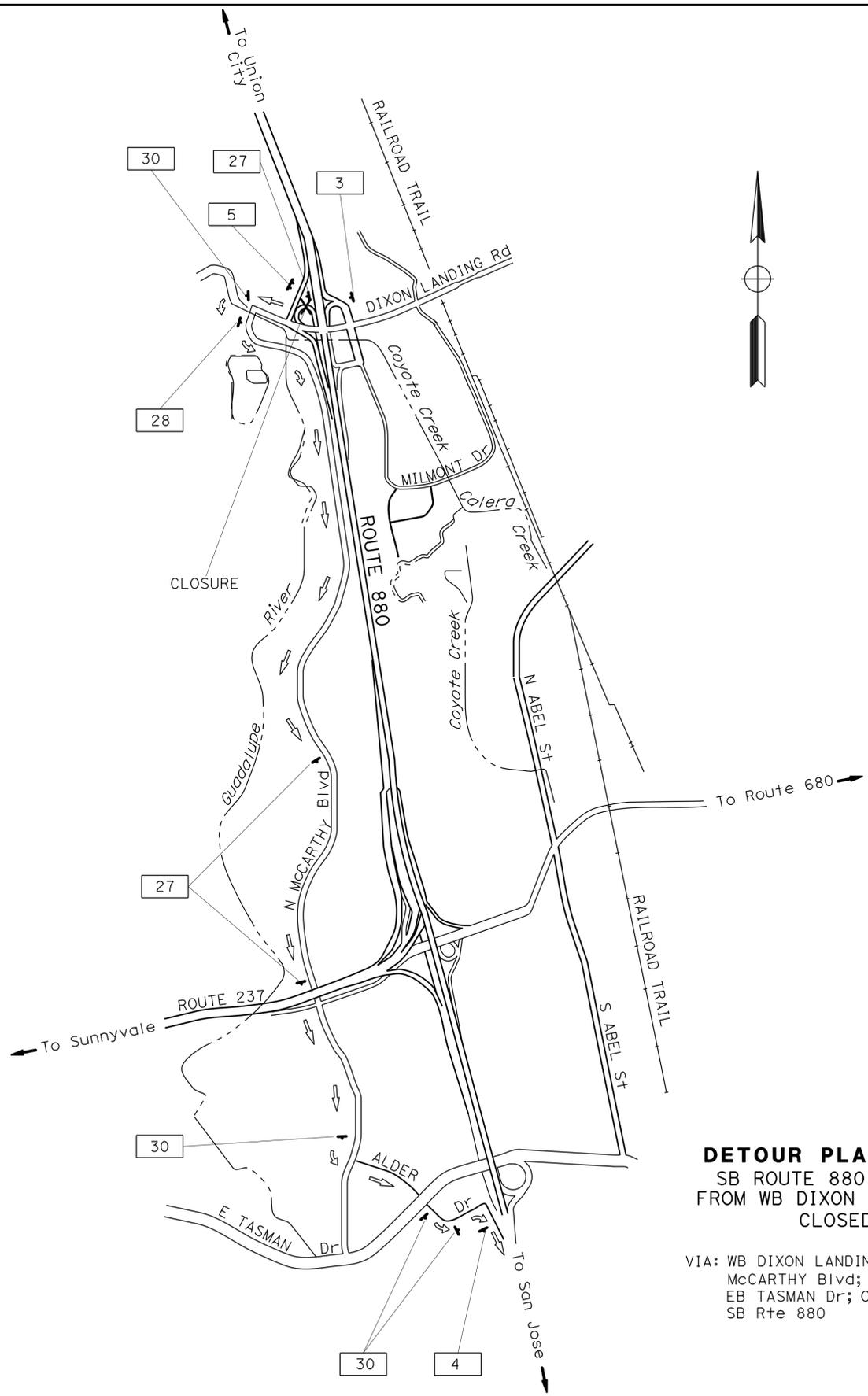
CONSTRUCTION AREA SIGNS
 NO SCALE

CS-7

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

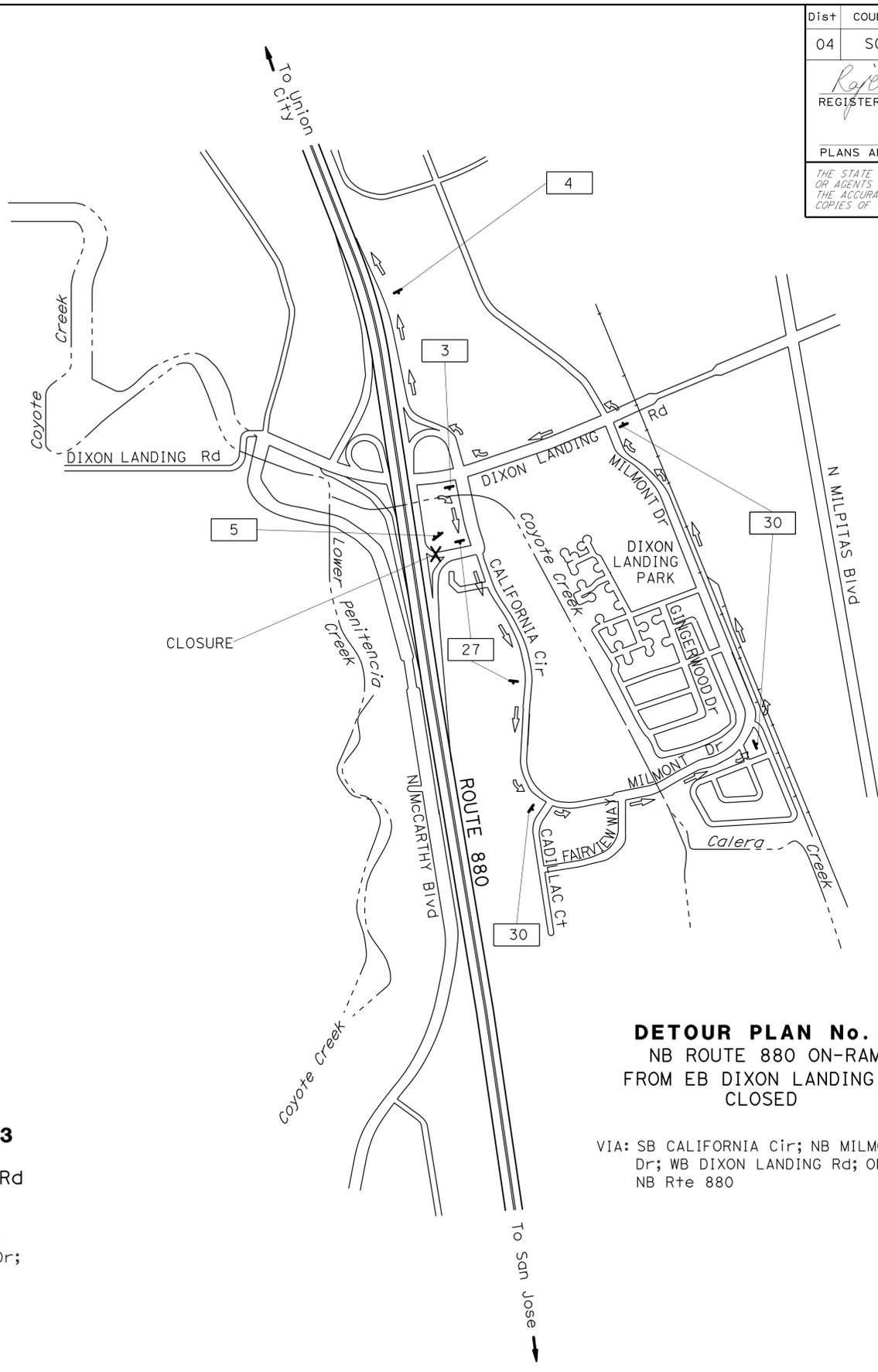
FOR NOTES AND LEGEND,
 SEE SHEET CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	11	38
Rajesh Oberoi REGISTERED CIVIL ENGINEER			3-2-16	DATE	
3-28-16 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 Rajesh Oberoi No. 46046 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA					



DETOUR PLAN No. 13
 SB ROUTE 880 ON-RAMP
 FROM WB DIXON LANDING Rd
 CLOSED

VIA: WB DIXON LANDING Rd; SB N McCarthy Blvd; EB ALDER Dr; EB TASMAN Dr; ON-RAMP TO SB Rte 880



DETOUR PLAN No. 14
 NB ROUTE 880 ON-RAMP
 FROM EB DIXON LANDING Rd
 CLOSED

VIA: SB CALIFORNIA Cir; NB MILMONT Dr; WB DIXON LANDING Rd; ON-RAMP TO NB Rte 880

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

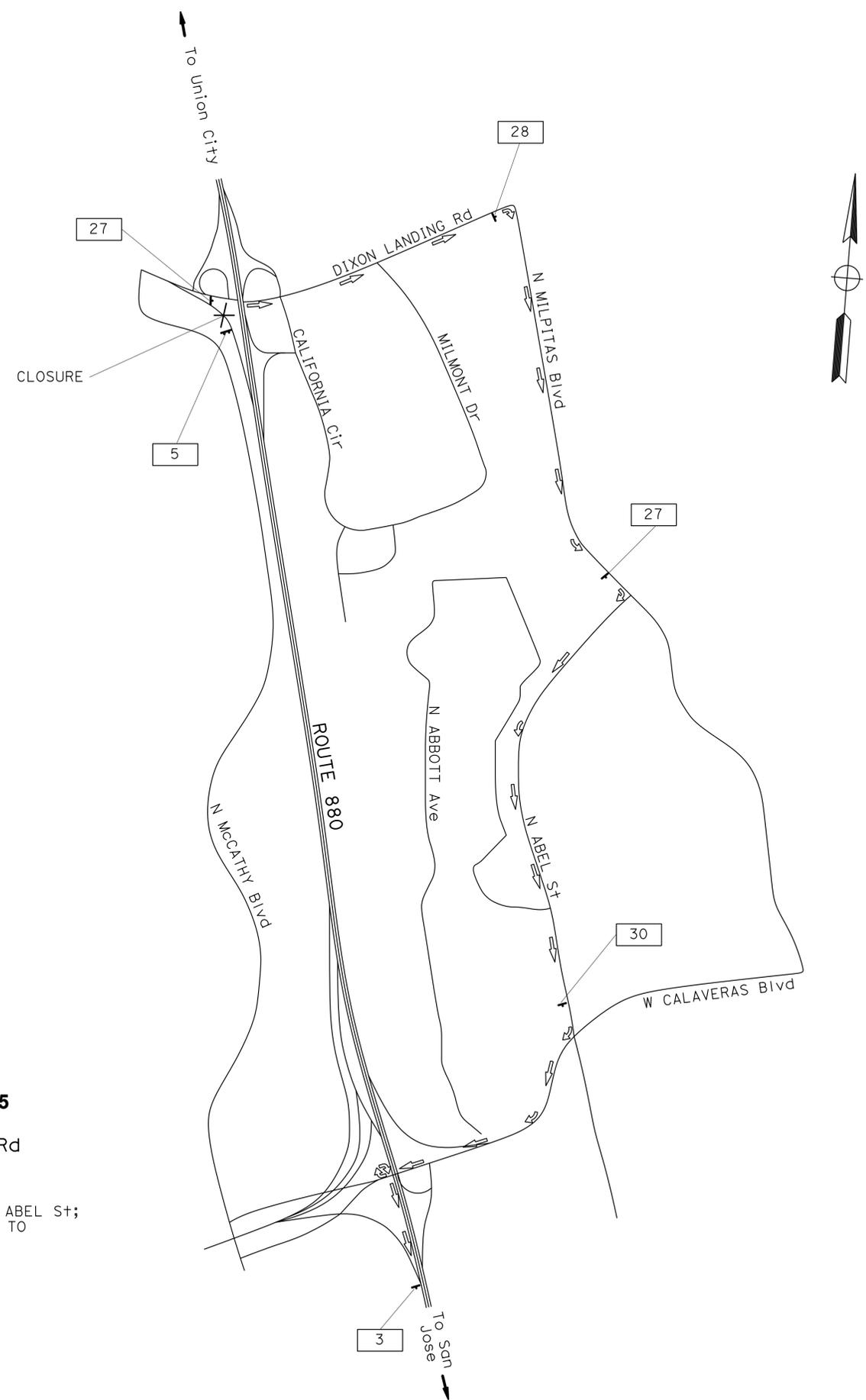
CONSTRUCTION AREA SIGNS
 NO SCALE

CS-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	STEVEN LAU	REVISOR	SL
			ROLAND AU-YEUNG	CHECKED BY	RAJESH OBEROI
TRAFFIC					

DETOUR PLAN No. 15
 SB ROUTE 880 ON-RAMP
 FROM EB DIXON LANDING Rd
 CLOSED

VIA: EB DIXON LANDING Rd;
 SB N MILPITAS Blvd; SB N ABEL St;
 WB Rte 237/CALAVERAS Rd TO
 SB Rte 880 LOOP ON-RAMP



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET CS-1

CONSTRUCTION AREA SIGNS
 NO SCALE

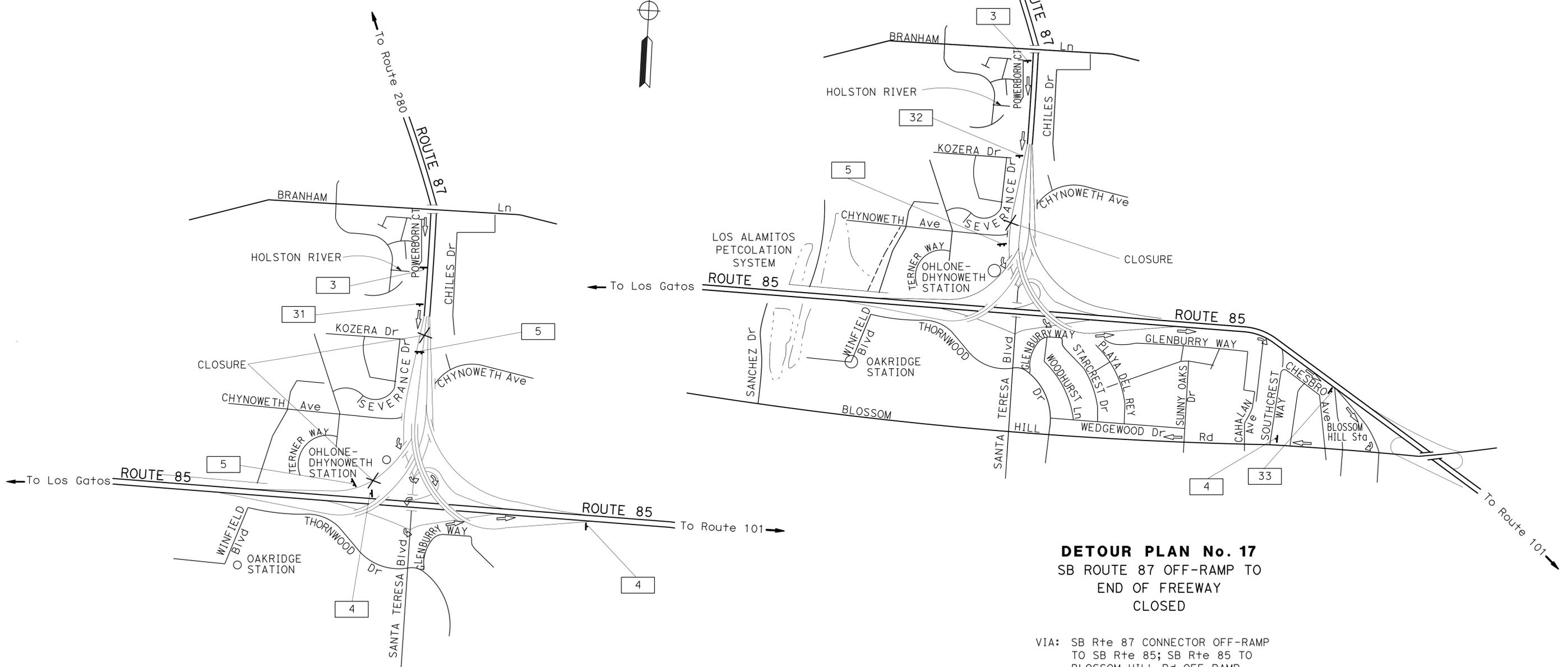
CS-9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	12	38
<i>Rajesh Oberoi</i> REGISTERED CIVIL ENGINEER			3-2-16 DATE		
3-28-16 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>					

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	13	38
<i>Rajesh Oberoi</i> REGISTERED CIVIL ENGINEER			3-2-16	DATE	
3-28-16 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>					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	STEVEN LAU	REVISOR	SL
TRAFFIC	ROLAND AU-YEUNG	CHECKED BY	RAJESH OBEROI	DATE REVISED	3-3-16



DETOUR PLAN No. 16
 SB ROUTE 87 CONNECTOR
 OFF-RAMP TO ROUTE 85
 CLOSED

VIA: SB Rte 87 OFF-RAMP TO SANTA TERESA Blvd;
 SB SANTA TERESA Blvd ON-RAMP TO NB Rte 85
 OR ON-RAMP TO SB Rte 85

DETOUR PLAN No. 17
 SB ROUTE 87 OFF-RAMP TO
 END OF FREEWAY
 CLOSED

VIA: SB Rte 87 CONNECTOR OFF-RAMP
 TO SB Rte 85; SB Rte 85 TO
 BLOSSOM HILL Rd OFF-RAMP

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-10

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET CS-1

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	No. OF SIGNS
					EA
1	W20-1	ROAD WORK AHEAD	48" x 48"	1 - 4" x 6"	15
2	G20-2	END ROAD WORK	48" x 24"	1 - 4" x 4"	16
3	W20-2	DETOUR AHEAD	48" x 48"	1 - 4" x 6"	17
4	M4-8a	END DETOUR	24" x 18"	1 - 4" x 4"	18
5	SC6-4(CA)	RAMP CLOSED AHEAD	60" x 48"	2 - 4" x 6"	18
6	SC3(▲)(CA)	DETOUR (STRAIGHT AHEAD ARROW)	48" x 18"	1 - 4" x 6"	2
	M3-1	NORTH	21" x 9"		
	G28-2(85)(CA)	ROUTE SHIELD	24" x 25"		
7	M4-8	DETOUR	21" x 9"	1 - 4" x 6"	2
	M3-1	NORTH	21" x 9"		
	G28-2(85)(CA)	ROUTE SHIELD	24" x 25"		
8	M6-2(▲)	DETOUR (DIAGONAL ARROW)	21" x 15"	1 - 4" x 6"	2
	M4-10 (R+)	DETOUR (RIGHT)	48" x 18"		
	M3-1	NORTH	21" x 9"		
9	G28-2(85)(CA)	ROUTE SHIELD	24" x 25"	1 - 4" x 6"	2
	M4-10 (L+)	DETOUR (LEFT)	48" x 18"		
	M3-1	NORTH	21" x 9"		
10	G28-2(85)(CA)	ROUTE SHIELD	24" x 25"	1 - 4" x 6"	3
	M4-8	DETOUR	21" x 9"		
	M3-3	SOUTH	21" x 9"		
11	G28-2(87)(CA)	ROUTE SHIELD	24" x 25"	1 - 4" x 6"	5
	M6-2(▲)	DETOUR (DIAGONAL ARROW)	21" x 15"		
	M4-10 (L+)	DETOUR (LEFT)	48" x 18"		
12	M3-3	SOUTH	21" x 9"	1 - 4" x 6"	1
	G28-2(87)(CA)	ROUTE SHIELD	24" x 25"		
	M4-8	DETOUR	21" x 9"		
13	M3-1	NORTH	21" x 9"	1 - 4" x 6"	5
	G28-2(85)(CA)	ROUTE SHIELD	24" x 25"		
	M6-2(▲)	DETOUR (DIAGONAL ARROW)	21" x 15"		
14	SC3(▲)	DETOUR (STRAIGHT AHEAD ARROW)	48" x 18"	1 - 4" x 6"	1
	M3-3	SOUTH	21" x 9"		
	G28-2(87)(CA)	ROUTE SHIELD	24" x 25"		
15	M4-10 (R+)	DETOUR (RIGHT)	48" x 18"	1 - 4" x 6"	2
	M3-3	SOUTH	21" x 9"		
	G28-2(87)(CA)	ROUTE SHIELD	24" x 25"		
16	SC3(▲)	DETOUR (STRAIGHT AHEAD ARROW)	48" x 18"	1 - 4" x 6"	3
	Spec 1	CURTNER AVENUE	54" x 30"		
	M4-8	DETOUR	21" x 9"		
17	Spec 1	CURTNER AVENUE	54" x 30"	1 - 4" x 6"	5
	M6-2(▲)	DETOUR (DIAGONAL ARROW)	21" x 15"		
	M4-10 (L+)	DETOUR (LEFT)	21" x 9"		
18	M3-1	NORTH	21" x 9"	1 - 4" x 6"	5
	G28-2(87)(CA)	ROUTE SHIELD	24" x 25"		
	SC3(▲)	DETOUR (STRAIGHT ARROW)	48" x 18"		
19	M3-1	NORTH	21" x 9"	1 - 4" x 6"	1
	G28-2(87)(CA)	ROUTE SHIELD	24" x 25"		
	M4-8	DETOUR	21" x 9"		
20	M3-1	NORTH	21" x 9"	1 - 4" x 6"	1
	G28-2(87)(CA)	ROUTE SHIELD	24" x 25"		
	M6-2	DETOUR (DIAGONAL ARROW)	21" x 15"		

Spec 1 54" x 30"

CURTNER AVENUE 6" CAPS

Spec 2 54" x 30"

BLOSSOM HILL Rd 6" CAPS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	14	38

3-2-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 PLANS APPROVAL DATE

Rajesh Oberoi
 No. 46046
 Exp. 12-31-16
 CIVIL

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.

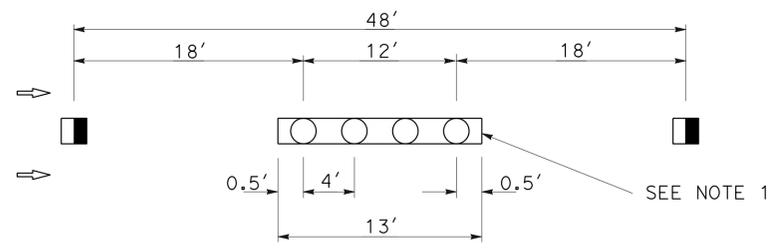
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	No. OF SIGNS
					EA
21	M4-8	DETOUR	21" x 9"	1 - 4" x 6"	1
	M3-1	NORTH	21" x 9"		
	G28-2(87)(CA)	ROUTE SHIELD	24" x 25"		
	M6-2(▲)	DETOUR (DIAGONAL ARROW)	21" x 15"		
22	M4-8	DETOUR	21" x 9"	1 - 4" x 6"	2
	M3-3	SOUTH	21" x 9"		
	G28-2(17)(CA)	ROUTE SHIELD	24" x 25"		
23	M3-2(▲)	DETOUR (DIAGONAL ARROW)	21" x 15"	1 - 4" x 6"	1
	M4-8	DETOUR	21" x 9"		
	M3-3	SOUTH	21" x 9"		
24	G28-2(17)(CA)	ROUTE SHIELD	24" x 25"	1 - 4" x 6"	2
	M6-2(▲)	DETOUR (DIAGONAL ARROW)	21" x 15"		
	SC3(▲)	DETOUR (STRAIGHT ARROW)	48" x 18"		
25	M3-3	SOUTH	21" x 9"	1 - 4" x 6"	2
	G27-2(680)(CA)	ROUTE SHIELD	30" x 25"		
	M4-10 (L+)	DETOUR (LEFT)	21" x 9"		
26	M3-3	SOUTH	21" x 9"	1 - 4" x 6"	1
	G27-2(680)(CA)	ROUTE SHIELD	30" x 25"		
	M4-10 (R+)	DETOUR (RIGHT)	21" x 9"		
27	M3-3	SOUTH	21" x 9"	1 - 4" x 6"	9
	SC3(▲)	DETOUR (STRAIGHT ARROW)	48" x 18"		
	G27-2(880)(CA)	ROUTE SHIELD	30" x 25"		
28	M4-10 (R+)	DETOUR (RIGHT)	21" x 9"	1 - 4" x 6"	4
	M3-3	SOUTH	21" x 9"		
	G27-2(880)(CA)	ROUTE SHIELD	30" x 25"		
29	M4-8	DETOUR	21" x 9"	1 - 4" x 6"	1
	M3-4	WEST	21" x 9"		
	G27-2(237)(CA)	ROUTE SHIELD	30" x 25"		
30	M6-2(▲)	DETOUR (DIAGONAL ARROW)	21" x 15"	1 - 4" x 6"	8
	M4-10 (L+)	DETOUR (LEFT)	21" x 9"		
	M3-3	SOUTH	21" x 9"		
31	G27-2(880)(CA)	ROUTE SHIELD	30" x 25"	1 - 4" x 6"	1
	SC3(▲)	DETOUR (STRAIGHT AHEAD ARROW)	48" x 18"		
	G28-2(85)(CA)	ROUTE SHIELD	24" x 25"		
32	M6-2(▲)	DETOUR (DIAGONAL ARROW)	21" x 15"	1 - 4" x 6"	1
	SC3(▲)	DETOUR (STRAIGHT AHEAD ARROW)	48" x 18"		
	Spec 2	BLOSSOM HILL Rd	54" x 30"		
33	Spec 2	BLOSSOM HILL Rd	54" x 30"	1 - 4" x 6"	1
	M6-2(▲)	DETOUR (DIAGONAL ARROW)	21" x 15"		

CONSTRUCTION AREA SIGNS

CS-11





DETAIL 13M

NOTES:

1. INSTALL 4" WHITE AFTER INSTALLING PAVEMENT MARKERS.
2. ALL EXISTING PAVEMENT DELINEATION SHALL BE REMOVED AND REPLACED IN KIND AT THE SAME LOCATIONS AS EXISTING.
3. PAVEMENT DELINEATION WILL NOT BE REMOVED AT MORE THAN 2 LOCATIONS AT THE SAME TIME. TEMPORARY PAVEMENT DELINEATION FOR THIS REQUIREMENT WILL BE PAINTED TRAFFIC STRIPE OR PERMANENT PAVEMENT DELINEATION.

LEGEND:

- TYPE A WHITE NON-REFLECTIVE MARKER
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
- 4" WHITE

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION	BRIDGE No.	DETAIL No./ MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPE		REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE				PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING		
			4" WHITE	8" WHITE	4" YELLOW			4" WHITE (BROKEN 35-13)	4" WHITE	4" YELLOW	8" WHITE	NON-REFLECTIVE		RETROREFLECTIVE				
			LF									SQFT	EA	LF			EA	EA
①	37 0489L	13M	131		241		63	482			241		50		13		6	
		25					6											
	37 0489R	13M	126				60	464		241			48		12		6	
		25					6				232							
②	37 0484R	13M	521				85	1923					35		50		17	
		25			641		17											
	DIAMOND SYMBOL							33										33
		13M	785					377	2898				302		75		104	
③	37 0414F	25			3996		104			3996							104	
		27B	3996															
	DIAMOND SYMBOL	38		3528			147					3528			147			
		13M	152					73	563				59		15		15	
④	37 0414K	25			563		15			563							15	
		27B	1404							1404								
⑤	37 0441	13M	285				137	1053					110		27			
		25			702		18			702							18	
⑥	37 0417L	27B	702				56	428					45		11		6	
		13M	116				6				214						6	
	37 0417R	25			214						214							
		27B	214															
⑦	37 0418L	13M	172				83	636				66		17				
		25			212		6			212							6	
	37 0418R	27B	212															
		13M	116				56	430			215		45		11		6	
TOTAL		25			215		6			215							6	
		38		230			10				230				10			
		13M	116				56	430					45		11		6	
		27B	215				6			215							6	
TOTAL			15461	3758	7231	77	1393	9307	12941	7231	3758	805		399	190		77	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 Ramses Sargiss
 Functional Supervisor
 Checked by
 John Hemip
 Patrick Ho
 Revised by
 PH
 3-3-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	16	38

John C. Hemip 3-3-16
 REGISTERED CIVIL ENGINEER DATE

3-28-16
 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
 John C. Hemip
 No. 47384
 Exp. 2-31-17
 CIVIL
 STATE OF CALIFORNIA

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION	BRIDGE No.	DETAIL No./ MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPE		REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER	THERMOPLASTIC TRAFFIC STRIPE				PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING
			4" WHITE	8" WHITE	4" YELLOW			4" WHITE (BROKEN 35-13)	4" WHITE	4" YELLOW	8" WHITE	NON-REFLECTIVE TYPE A	RETROREFLECTIVE			
													TYPE D	TYPE G	TYPE H	
			LF			SQFT	EA	LF				EA			SQFT	
8	37 0433L															
9	37 0362L	13M	271		333		61	999			333		35		26	9
		25					9									
		27B	333				13		333						13	
		38		320								320				
		DIAMOND SYMBOL				11										11
10	37 0362R 37 0366L 37 0366R	13M	118				57	434				45		11		
		25			337		9				337				9	
		27B	337				10		337			240			10	
		38		240												
11	37 0420L															
12	37 0368R	13M	127				61	470				49		12		
		25			235		6			235	235				6	
13	37 0421R															
14	37 0422R	13M	434				77	1602				35		42		
		25			534		14			534	534				14	
		27B	534						534							
		DIAMOND SYMBOL				11										11
15	37 0490															
16	37 0391	13M	88				43	324				35		8		
		25			324		8			324	324				8	
17	37 0159L	13M	163				51	600				35		16		
		25			300		8			300	300				8	
18	37 0260	9	240				5	240						5		
		22			332		17			332	332		17			
		27B	332													
		38		45			2					45			2	
		TYPE IV (L) ARROW				15										
TYPE IV (R) ARROW				15											15	
		ONLY				22										22
TOTAL			3836	605	2395	74	451	4429	2635	2395	605	234	17	145	54	74

PAVEMENT DELINEATION QUANTITIES

PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 RAMSES SARGISS
 FUNCTIONAL SUPERVISOR
 CHECKED BY
 JOHN HEMIUP
 PATRICK HO
 REVISOR BY
 PH
 3-3-16

LAST REVISION DATE PLOTTED => 05-APR-2016
 03-28-16 TIME PLOTTED => 08:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	18	38

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Grace M. Tsushima
REGISTERED PROFESSIONAL ENGINEER
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 3-28-16

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.

REVISED STANDARD PLAN RSP A10B

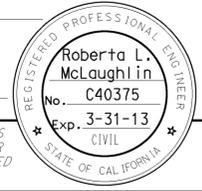
	M
Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD 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

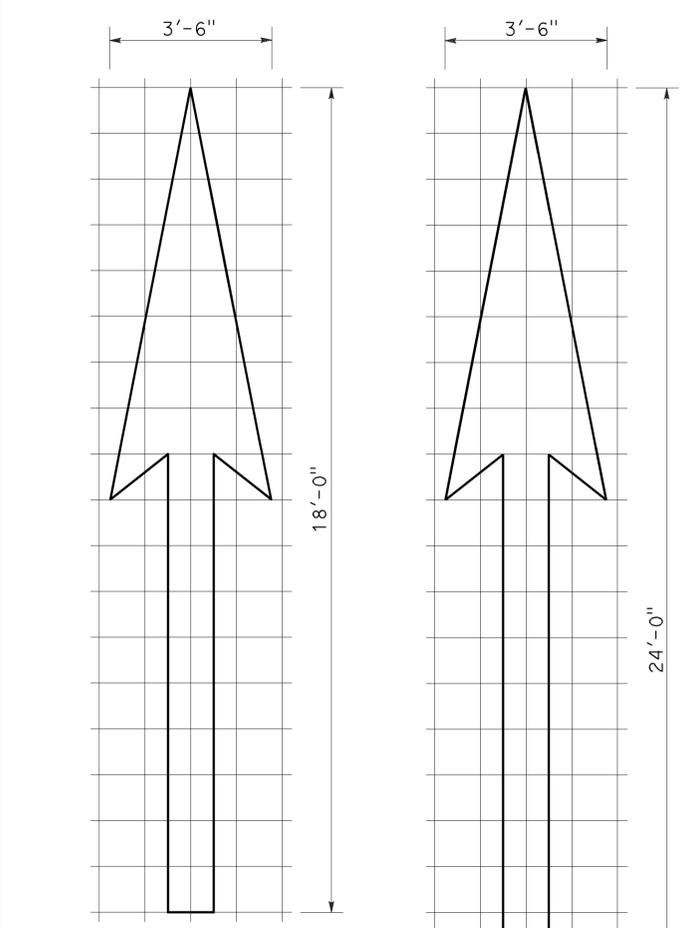
	S
S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
ℒ	STATION LINE
SM	SELECTED MATERIAL
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
WWL	WINGWALL LAYOUT LINE
	X
X Sec	CROSS SECTION
Xing	CROSSING
	Y
Yr	YEAR
Yrs	YEARS

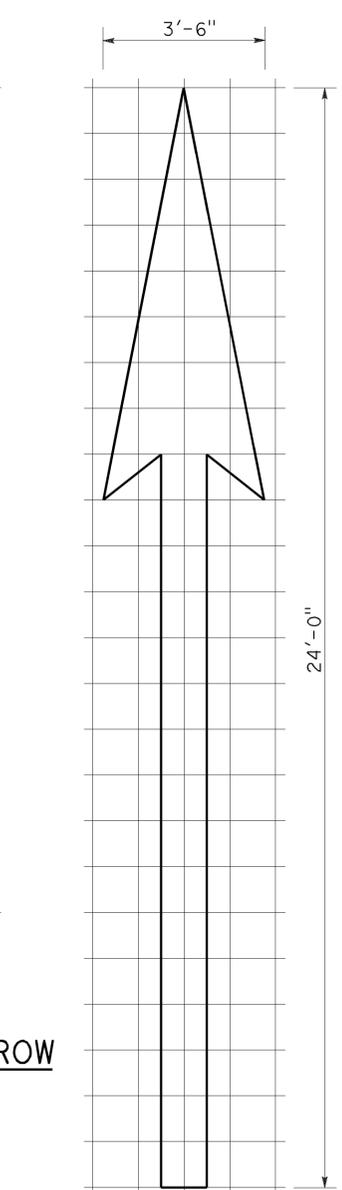
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	19	38
<i>Roberta L. McLaughlin</i> REGISTERED CIVIL ENGINEER					
April 20, 2012 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



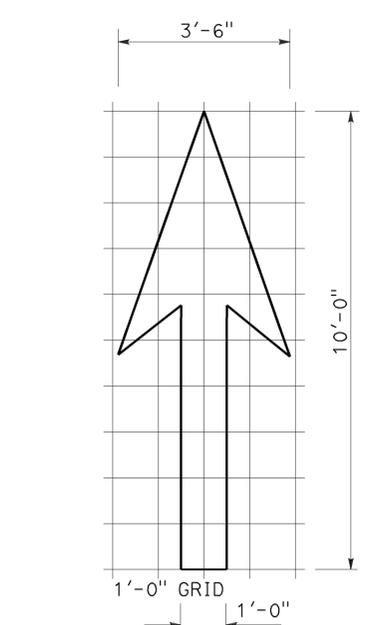
TO ACCOMPANY PLANS DATED 3-28-16



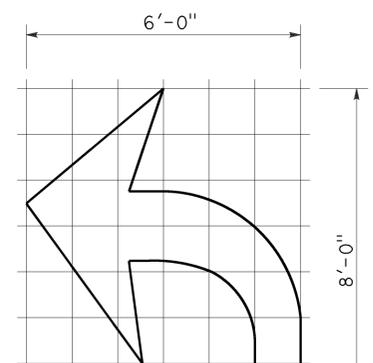
A=25 ft²
TYPE I 18'-0" ARROW



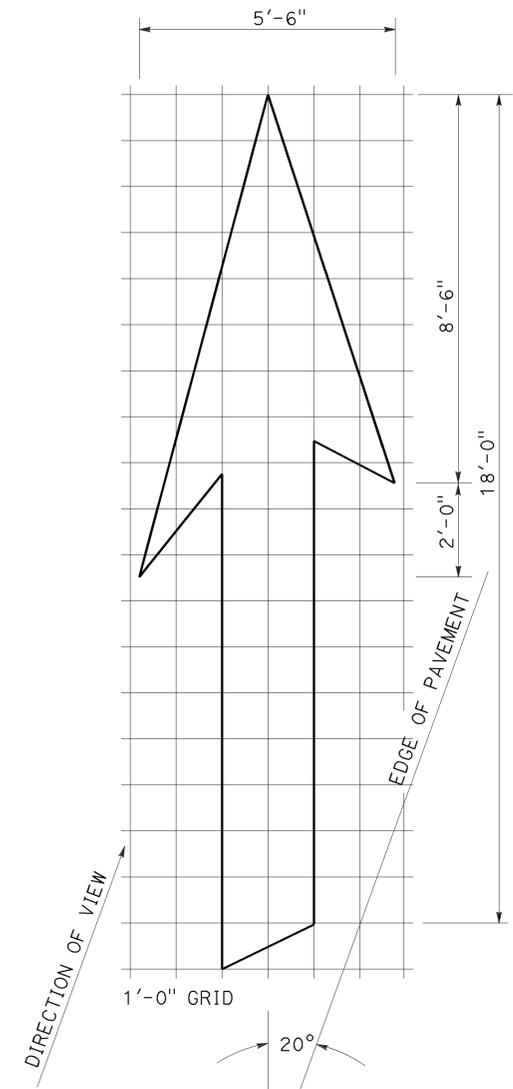
A=31 ft²
TYPE I 24'-0" ARROW



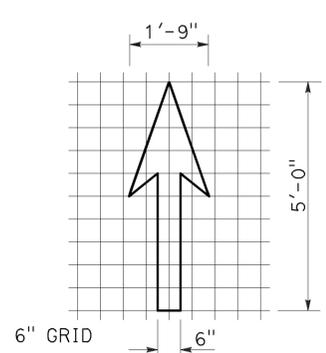
A=14 ft²
TYPE I 10'-0" ARROW



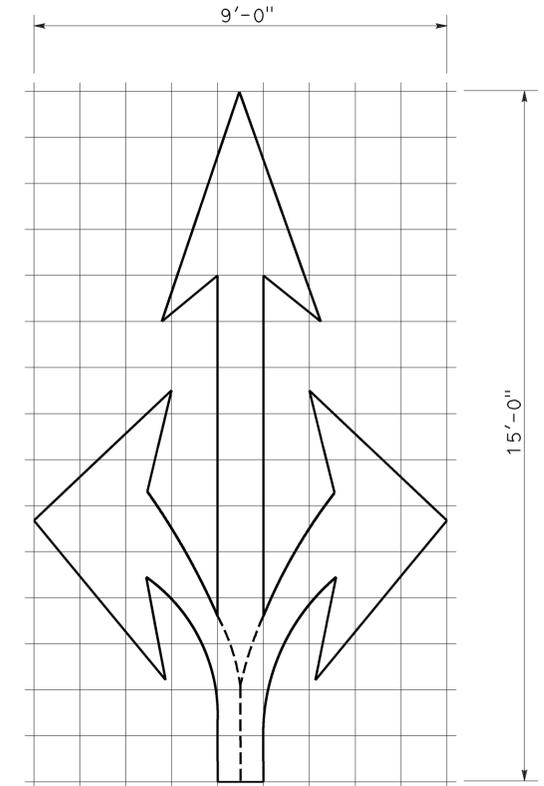
A=15 ft²
TYPE IV (L) ARROW
 (For Type IV (R) arrow, use mirror image)



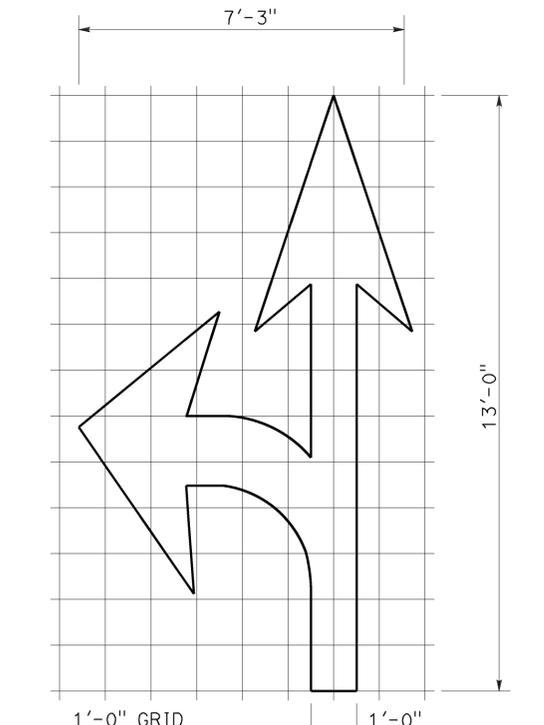
A=42 ft²
TYPE VI ARROW
 Right lane drop arrow
 (For left lane, use mirror image)



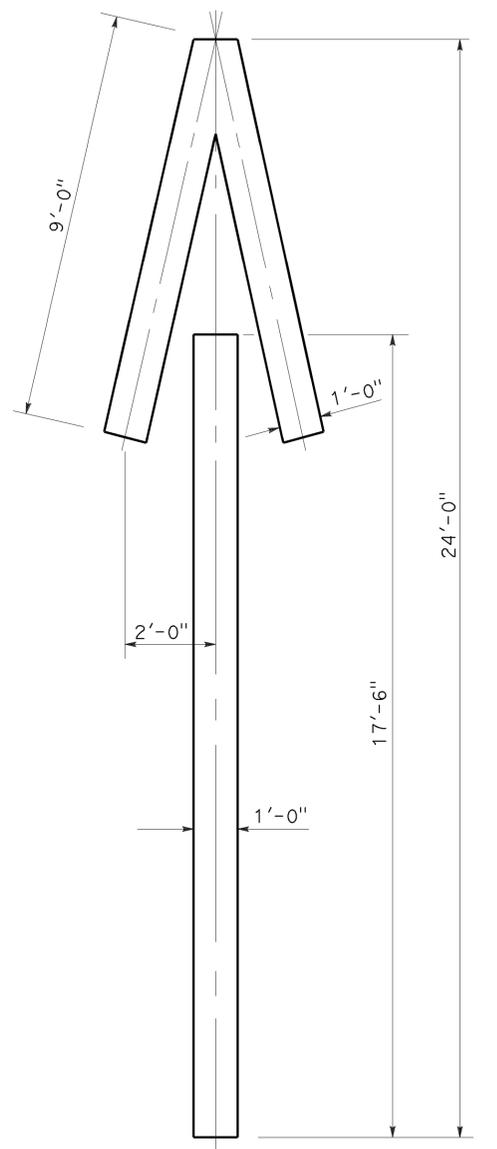
A=3.5 ft²
BIKE LANE ARROW



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

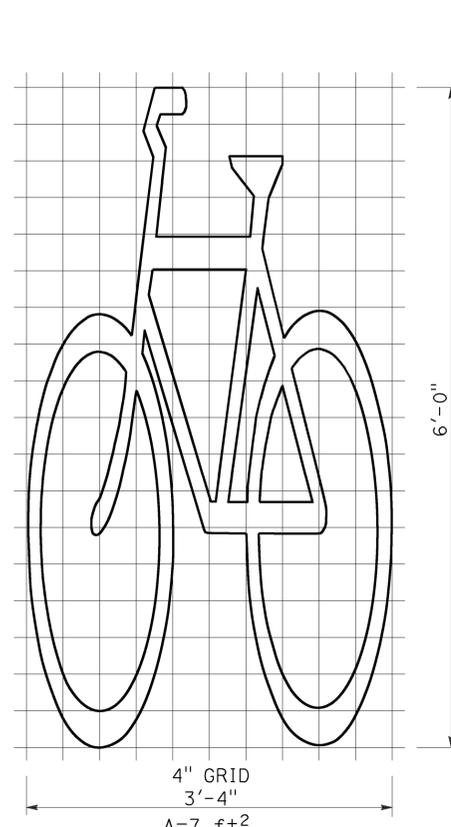
2010 REVISED STANDARD PLAN RSP A24A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	20	38

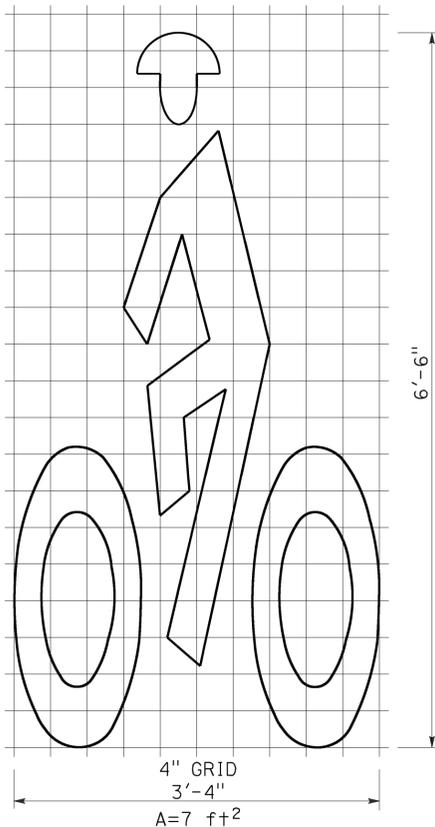
Registered Professional Engineer
 Roberto L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

October 19, 2012
 PLANS APPROVAL DATE

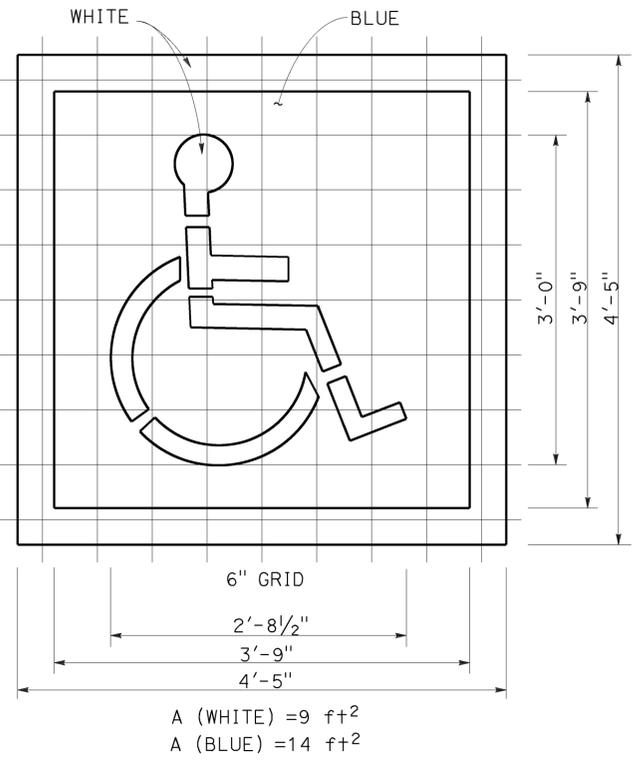
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



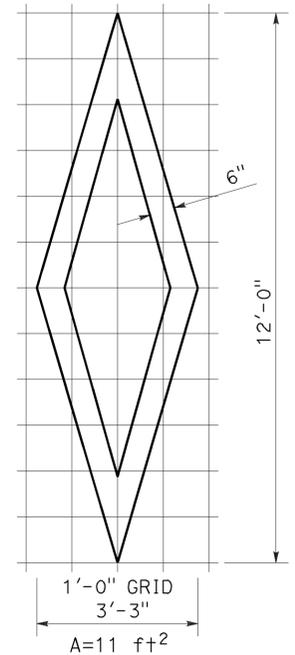
BIKE LANE SYMBOL WITHOUT PERSON



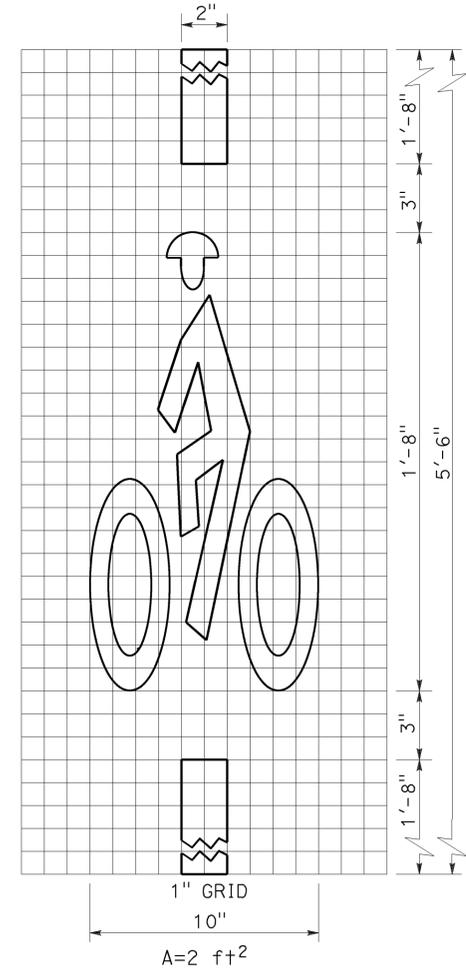
BIKE LANE SYMBOL WITH PERSON



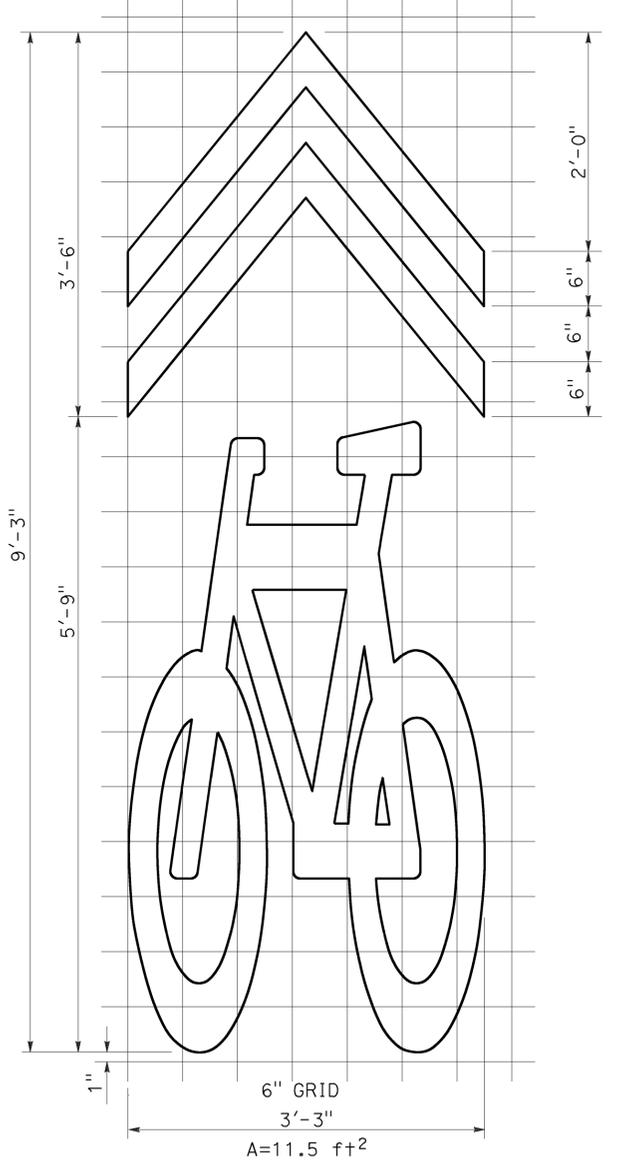
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



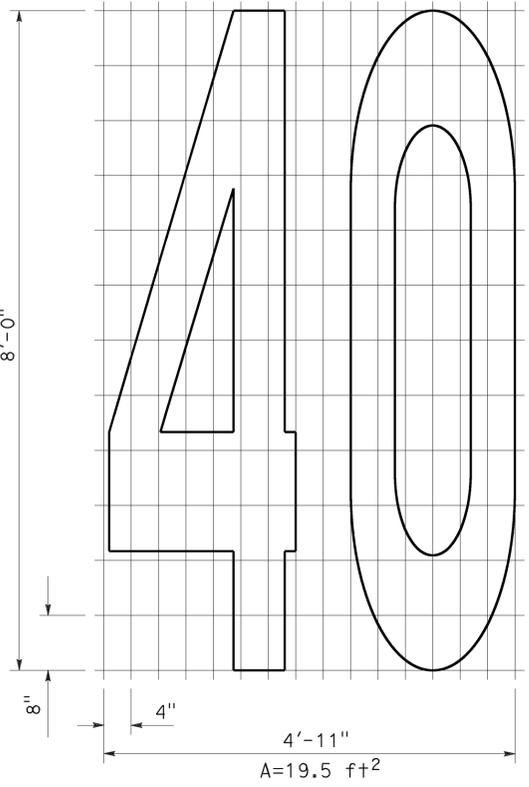
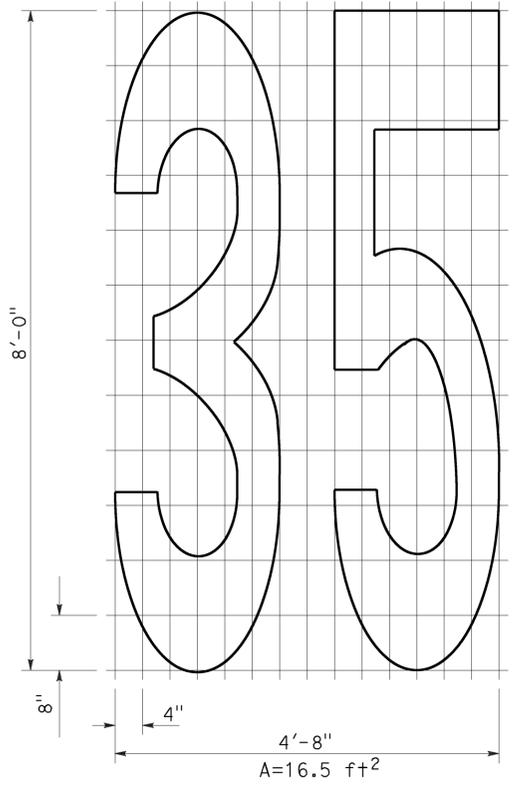
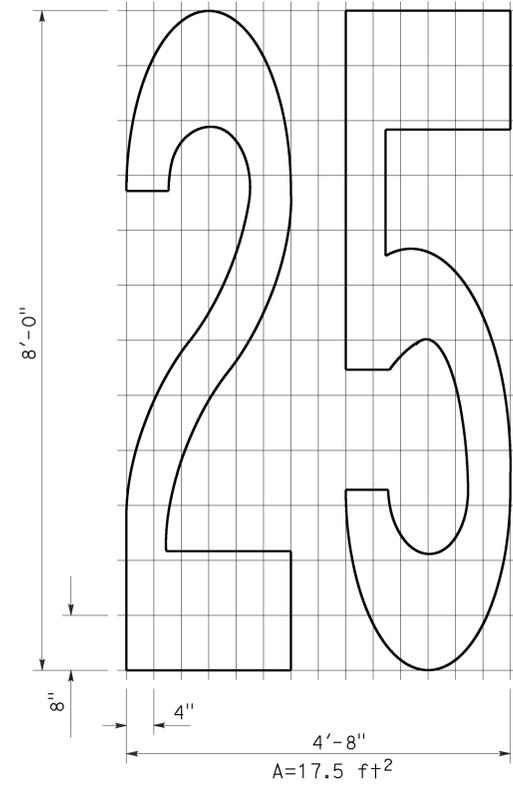
DIAMOND SYMBOL



BICYCLE LOOP DETECTOR SYMBOL



SHARED ROADWAY BICYCLE MARKING



NUMERALS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS
 NO SCALE

RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

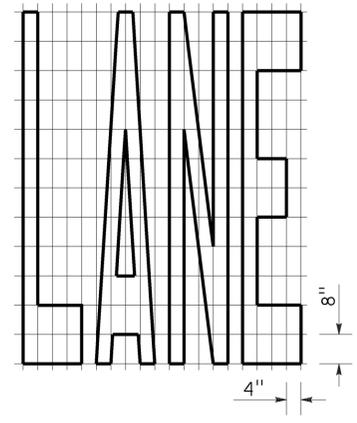
REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

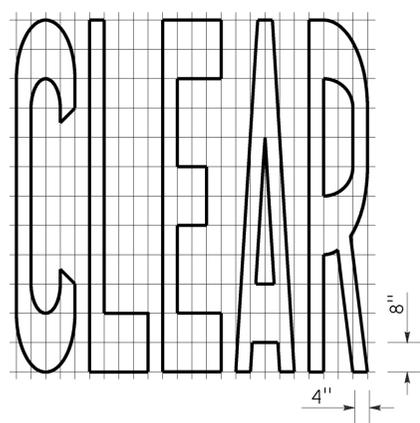
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	21	38

Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 20, 2012
 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.

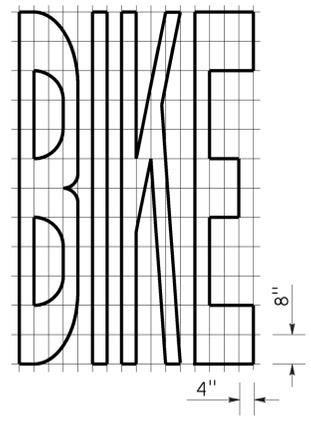
TO ACCOMPANY PLANS DATED 3-28-16



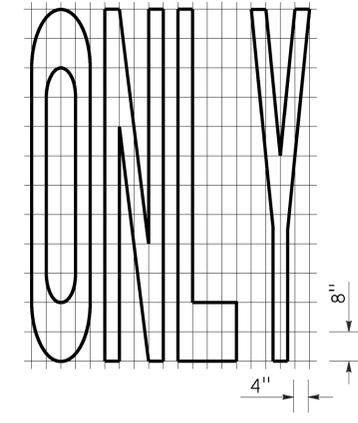
A=24 ft²



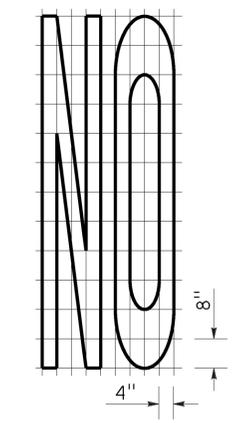
A=27 ft²



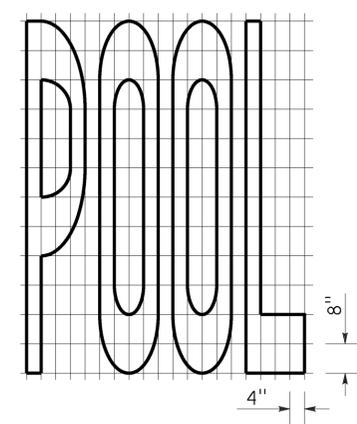
A=21 ft²



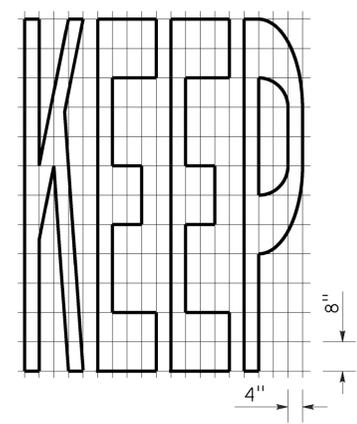
A=22 ft²



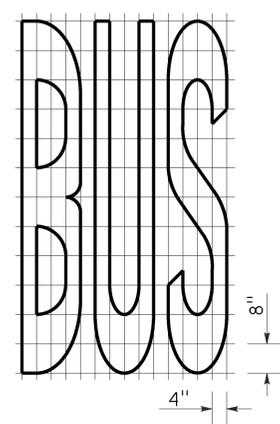
A=14 ft²



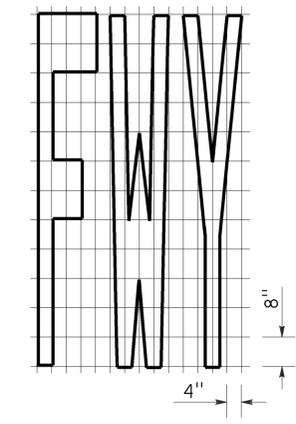
A=23 ft²



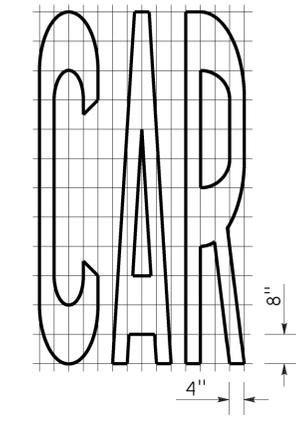
A=24 ft²



A=20 ft²

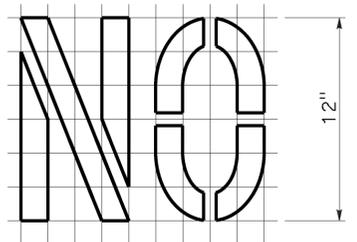


A=16 ft²



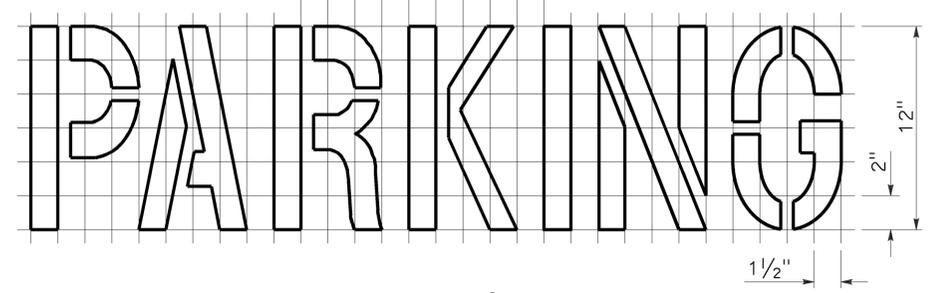
A=17 ft²

WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



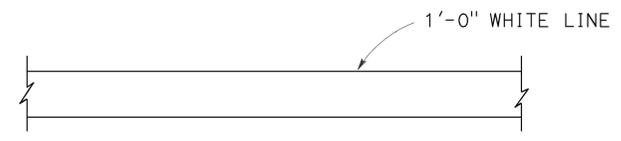
A=2 ft²

See Notes 6 and 7



A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

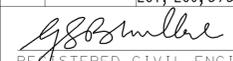
1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
 WORDS, LIMIT AND YIELD LINES**
 NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
 DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A24E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	22	38


 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 3-28-16

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.

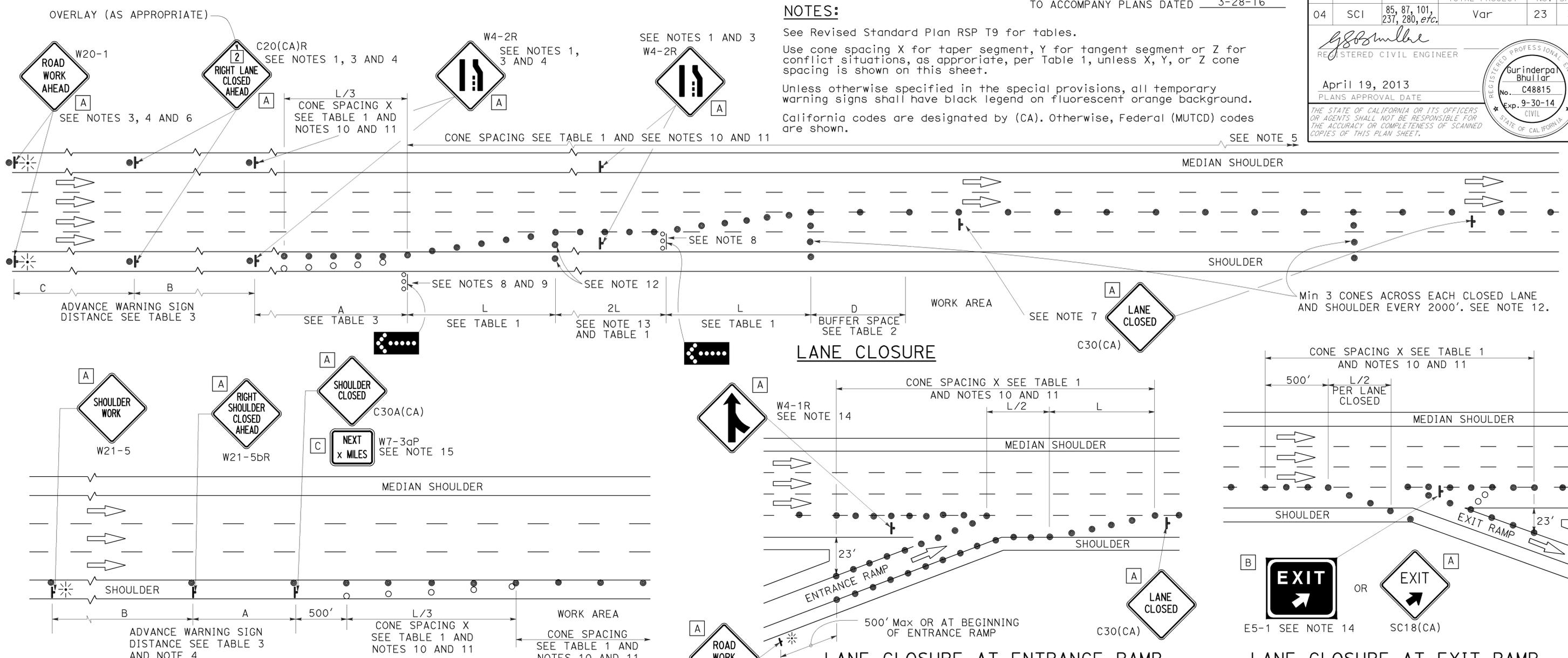
REVISED STANDARD PLAN RSP T9

2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	23	38

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:**
1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
 2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 3. Duplicate sign installations are not required:
 - a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 5. A 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**
6. 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.
 7. Place a C30(CA) sign every 2000' throughout length of lane closure.
 8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- LANE CLOSURE AT ENTRANCE RAMP**
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
 14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
 15. 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

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

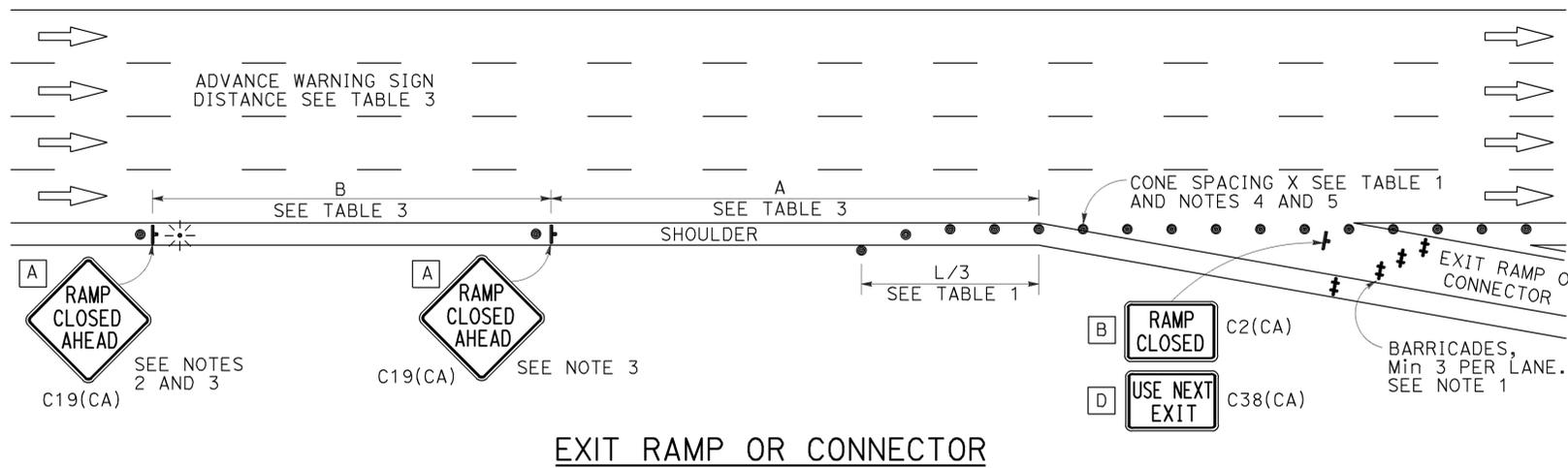
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	24	38

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.

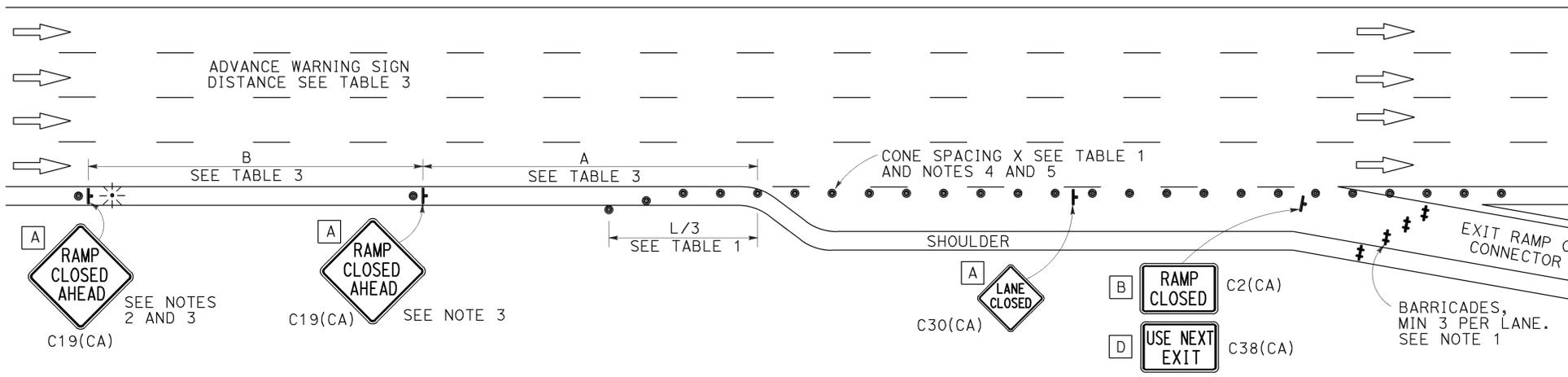
TO ACCOMPANY PLANS DATED 3-28-16

NOTES:

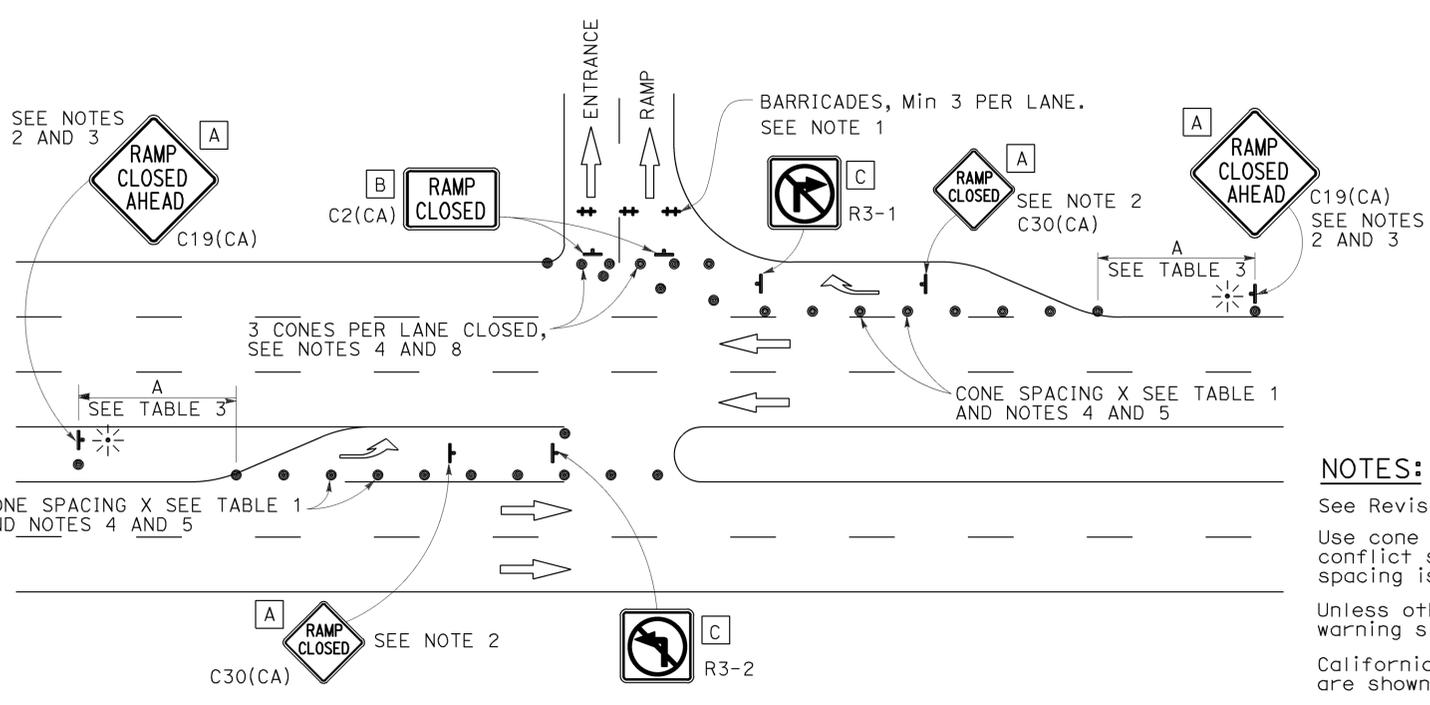
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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.



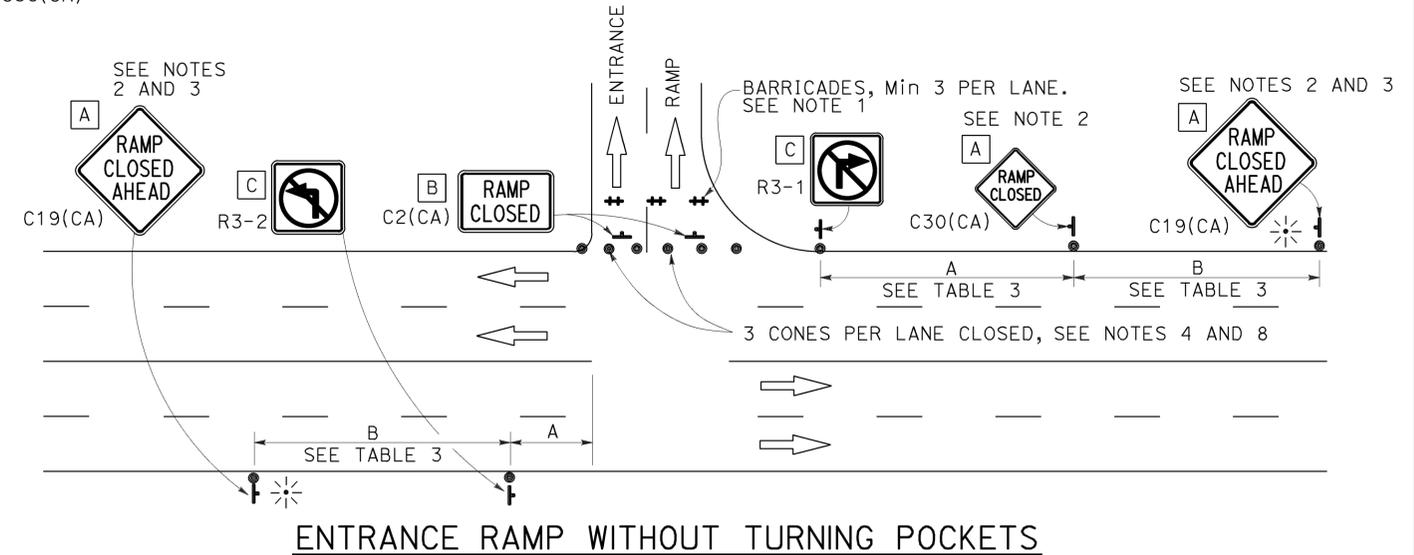
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

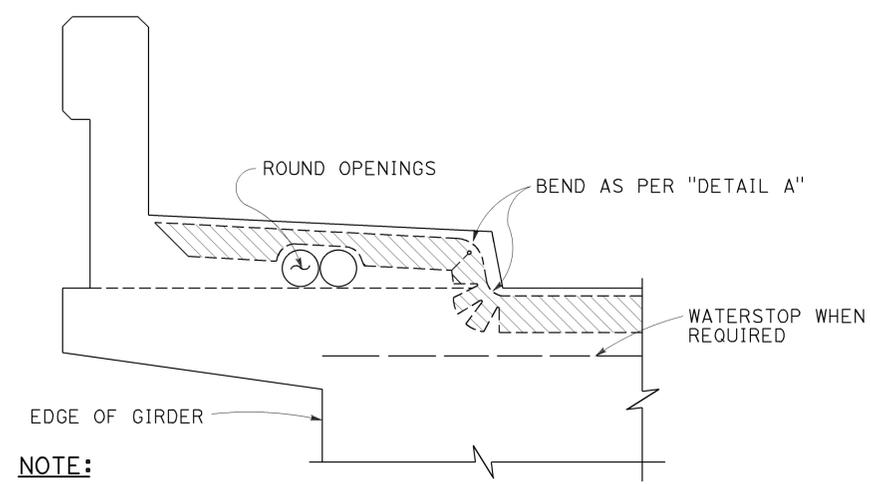
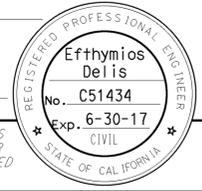
- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning 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.

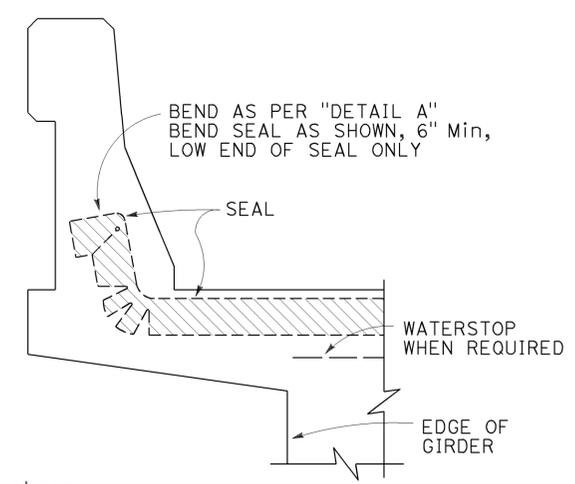
REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

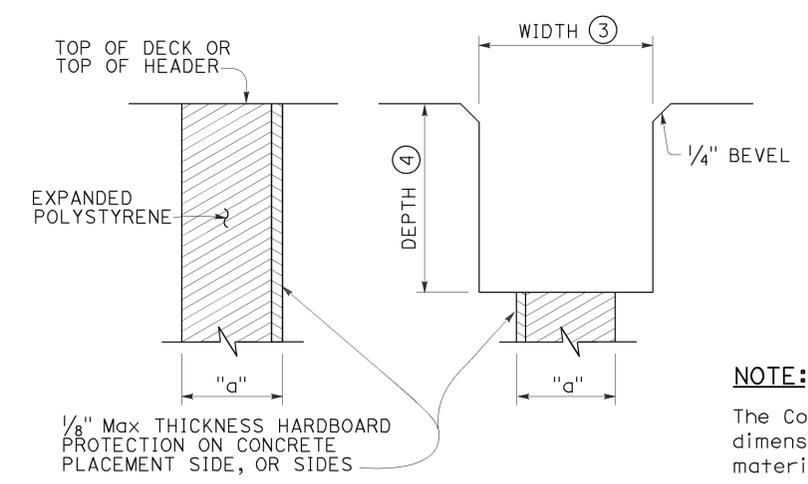


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



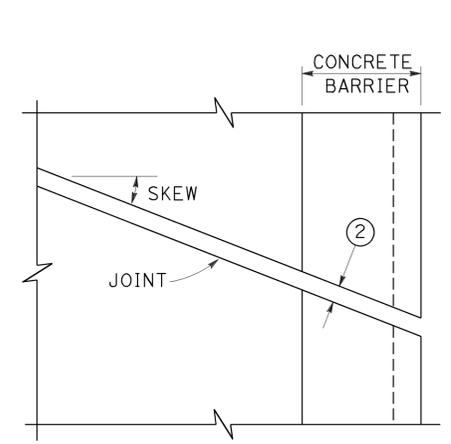
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

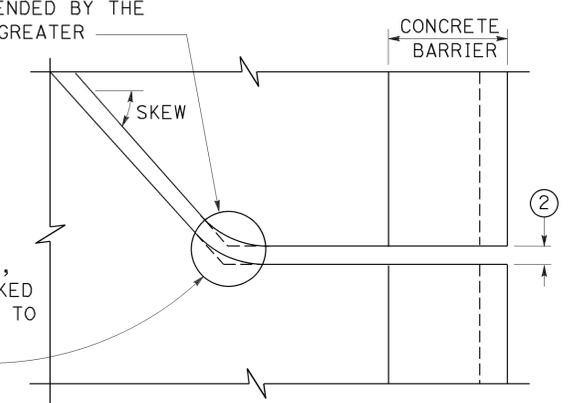
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



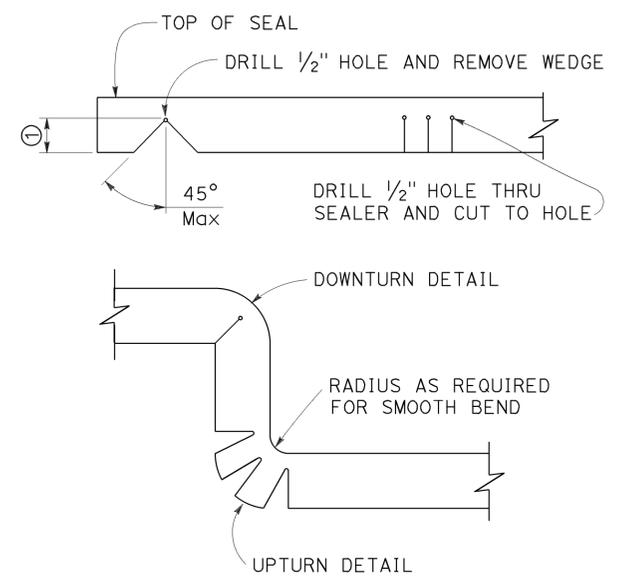
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ RADIUS TO BE 4 TIMES UNCOMPRESSED WIDTH OF SEAL OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS GREATER



PLAN OF JOINT (SKEW > 20°)

IN LIEU OF SAW CUTTING, THIS AREA MAY BE BLOCKED OUT AND RECONSTRUCTED TO MATCH SAW CUTTING ON BOTH SIDES.

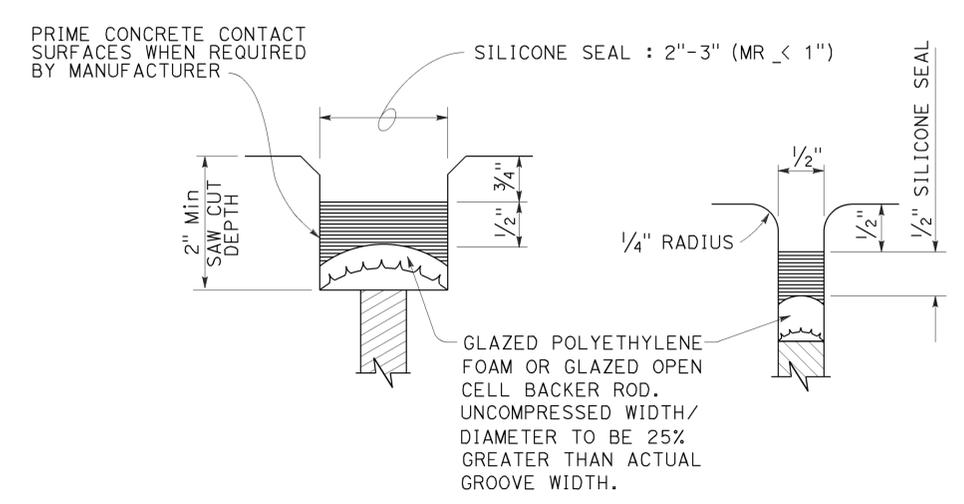


DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
 - Opening in barrier to match width of sawn deck joint.
 - Sawcut groove widths shall be as ordered by the Engineer.
 - Depth of sawcut: Type A - Depth to be 2" minimum. Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W_2) plus dimensions shown.
 - MR (movement rating) as shown on other plan sheets.
 - Other depths must be approved by the Engineer.
 - A sidewalk joint shall be covered by an expansion joint armor.

DIMENSIONS "a" OF JOINT REQUIRED

MOVEMENT RATING (MR) ⑤	BRIDGE TYPE	"a" DIMENSION		
		DECK CONCRETE PLACED		
		WINTER	FALL-SPRING	SUMMER
2"	ALL EXCEPT CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	ALL EXCEPT CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	ALL EXCEPT CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	ALL EXCEPT CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

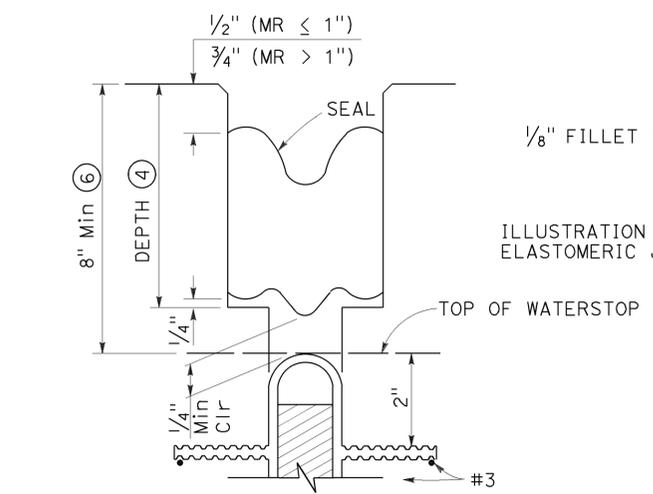


TYPE A SEAL

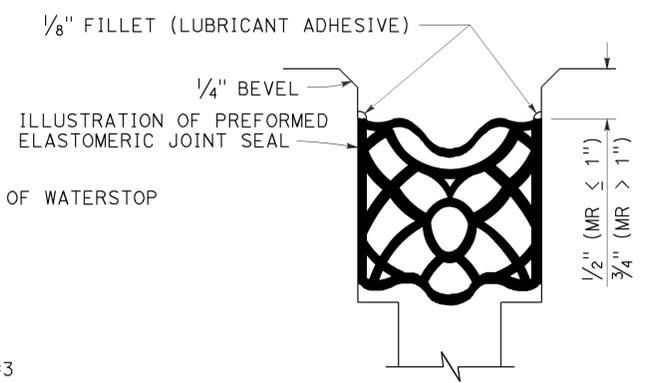
Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W_2)



TYPE B SEAL

Movement Rating ≤ 2"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")

NO SCALE
 RSP B6-21 DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 20, 2011 - PAGE 283 OF THE STANDARD PLANS BOOK DATED 2010.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	26	38

Thomas J. Bolla 3-4-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 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.

MANASSAS ROAD UC BRIDGE NO. 37-0489L/R

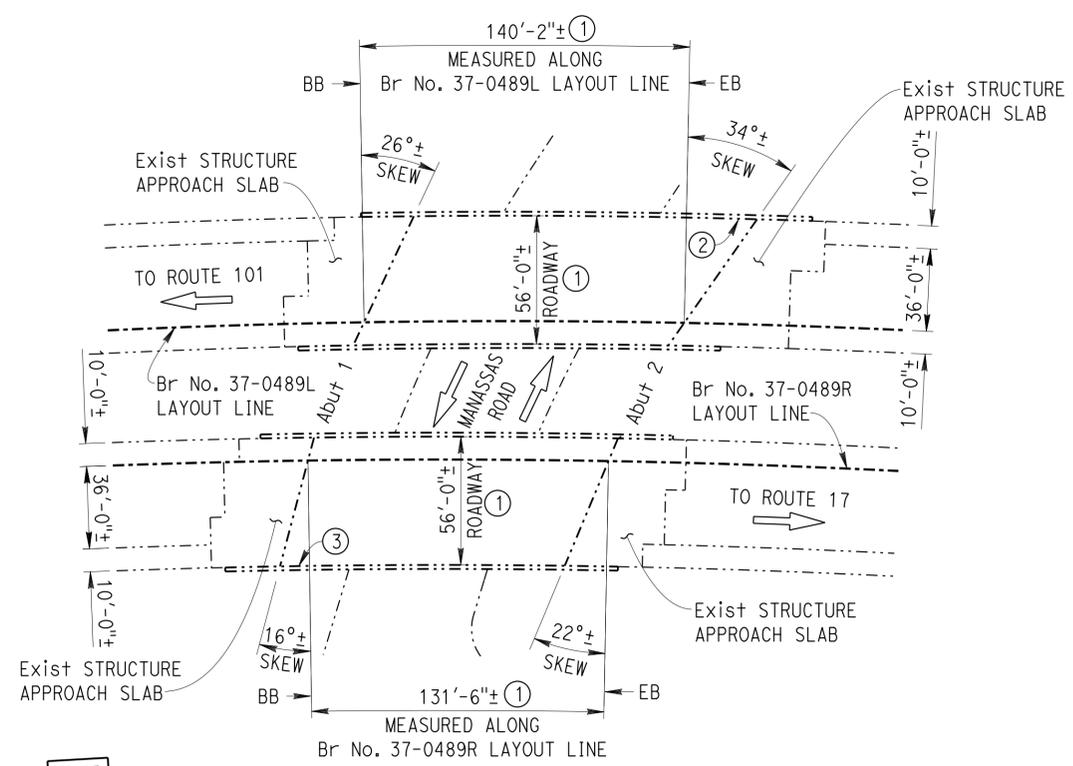
QUANTITIES

PAINT BRIDGE IDENTIFICATION	2	EA
PREPARE CONCRETE BRIDGE DECK SURFACE	15,290	SQFT
TREAT BRIDGE DECK	15,290	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	170	GAL

SANTA TERESA BLVD OH BRIDGE NO. 37-0484R

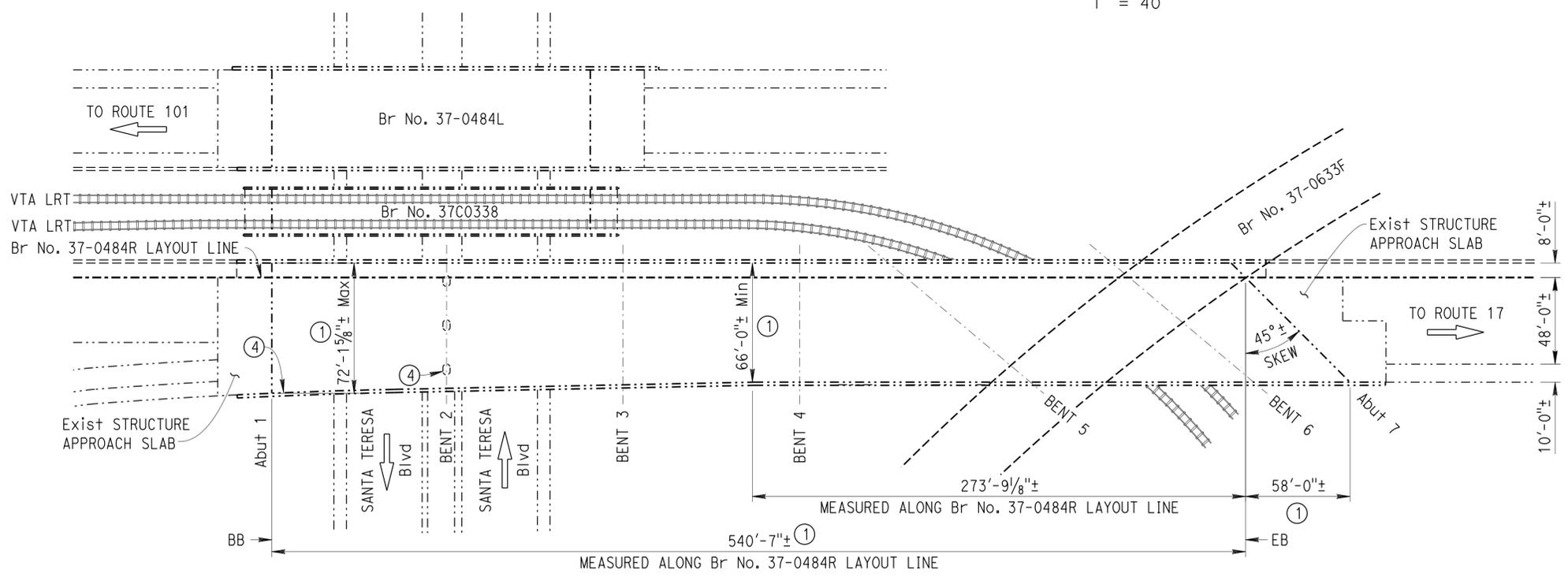
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PAINT BRIDGE IDENTIFICATION	2 EA
PREPARE CONCRETE BRIDGE DECK SURFACE	38,485 SQFT
TREAT BRIDGE DECK	38,485 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	429 GAL



MANASSAS ROAD UNDERCROSSING
 Br No. 37-0489L/R, ROUTE 85, PM 0.93
 1" = 40'

- NOTES: (APPLY TO ALL SHEETS)
- Indicates existing.
 - VTA LRT Valley Transportation Authority Light Rail Transit
 - STANDARD PLAN SHEET NUMBER
 - DETAIL NUMBER
- NOTES: (APPLY TO THIS SHEET ONLY)
- ① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.
 - ② Indicates location to paint on barrier rail:
MANASSAS ROAD UC
BR NO 37-0489L RTE 85 PM 0.93
1992
 - ③ Indicates location to paint on barrier rail:
MANASSAS ROAD UC
BR NO 37-0489R RTE 85 PM 0.93
1992
 - ④ Indicates location to paint on barrier rail and Bent 2 column:
SANTA TERESA BLVD OH
BR NO 37-0484R RTE 85 PM 5.20
1991



SANTA TERESA BOULEVARD OVERHEAD
 Br No. 37-0484R, ROUTE 85, PM 5.20
 1" = 40'

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

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN No. 1
2	GENERAL PLAN No. 2
3	GENERAL PLAN No. 3
4	GENERAL PLAN No. 4
5	GENERAL PLAN No. 5
6	GENERAL PLAN No. 6
7	GENERAL PLAN No. 7
8	GENERAL PLAN No. 8
9	GENERAL PLAN No. 9
10	GENERAL PLAN No. 10
11	MISCELLANEOUS DETAILS No. 1
12	MISCELLANEOUS DETAILS No. 2
13	JOINT SEAL DETAILS

STANDARD PLANS DATED 2010

SHEET No.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

ROUTES 85, 87, 101, 237, 280, 680 & 880 BRIDGES

TREAT DECK & REPLACE JOINT SEALS

GENERAL PLAN No. 1

Michael J. Lee 3-4-16
 DESIGN ENGINEER

DESIGN BY FRANZ ESPINOZA	CHECKED T. BOLLA	LOAD FACTOR DESIGN BY G.F. BIDWELL	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS BY G.F. BIDWELL	CHECKED T. BOLLA	LAYOUT BY G.F. BIDWELL	CHECKED T. BOLLA
QUANTITIES BY FRANZ ESPINOZA	CHECKED T. BOLLA	SPECIFICATIONS BY SIRISHA NELAPATLA	PLANS AND SPECS COMPARED BY SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE No. VARIOUS
 POST MILE VARIES

USERNAME => s1333460 DATE PLOTTED => 05-APR-2016 TIME PLOTTED => 08:13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	27	38

Thomas J. Bolla 3-4-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 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
 THOMAS J. BOLLA
 No. C 43811
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA

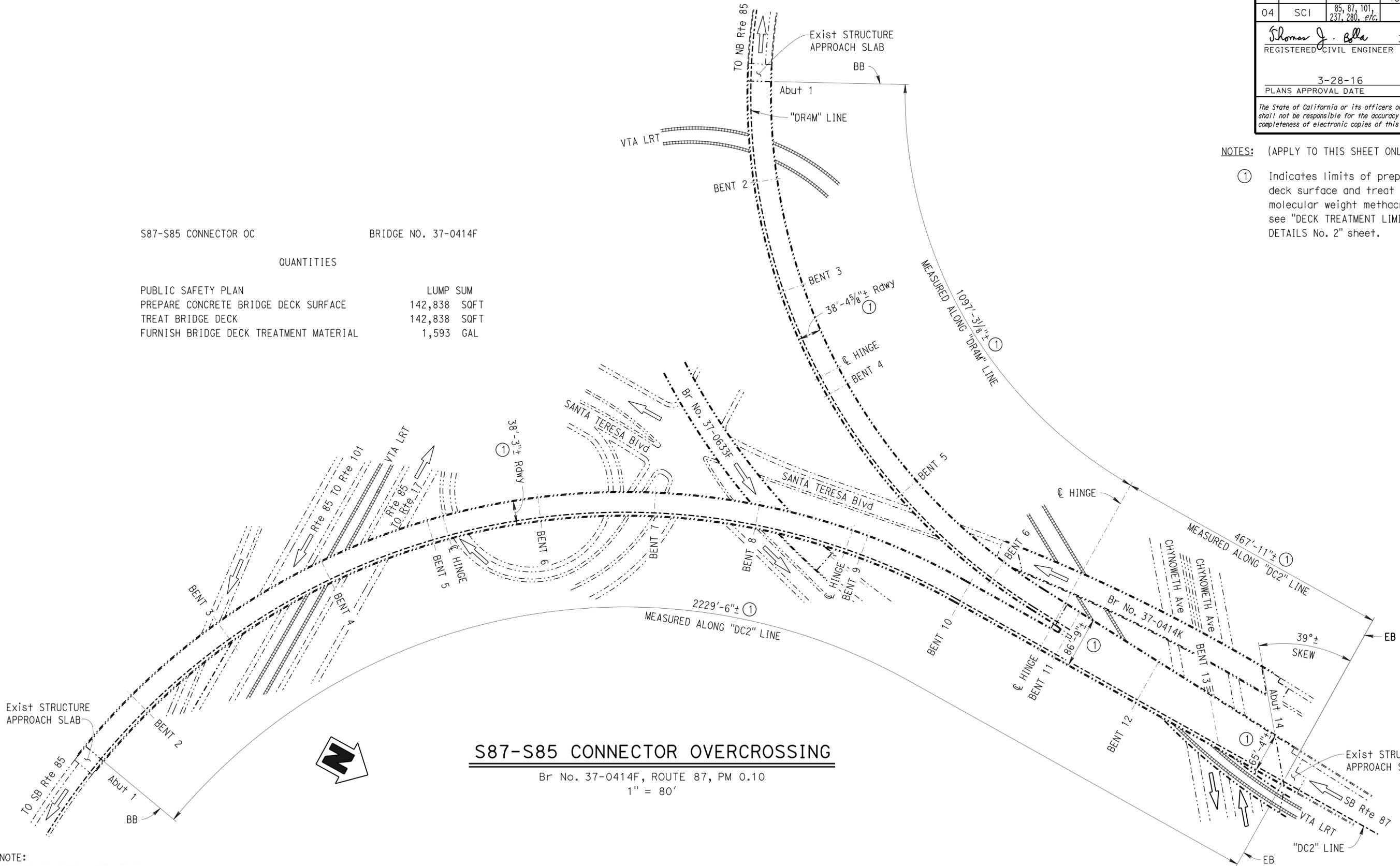
NOTES: (APPLY TO THIS SHEET ONLY)

① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.

S87-S85 CONNECTOR OC BRIDGE NO. 37-0414F

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	142,838 SQFT
TREAT BRIDGE DECK	142,838 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,593 GAL



S87-S85 CONNECTOR OVERCROSSING

Br No. 37-0414F, ROUTE 87, PM 0.10
 1" = 80'

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

ROUTES 85, 87, 101, 237, 280, 680 & 880 BRIDGES

TREAT DECK & REPLACE JOINT SEALS

GENERAL PLAN No. 2

Michael J. Lee 3-4-16
 DESIGN ENGINEER

DESIGN	BY FRANZ ESPINOZA	CHECKED T. BOLLA
DETAILS	BY G.F. BIDWELL	CHECKED T. BOLLA
QUANTITIES	BY FRANZ ESPINOZA	CHECKED T. BOLLA

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY G.F. BIDWELL CHECKED T. BOLLA
SPECIFICATIONS	BY SIRISHA NELAPATLA CHECKED T. BOLLA PLANS AND SPECS COMPARED SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE No. VARIOUS
 POST MILE VARIES

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
 PROJECT NUMBER & PHASE: 0414000468 1

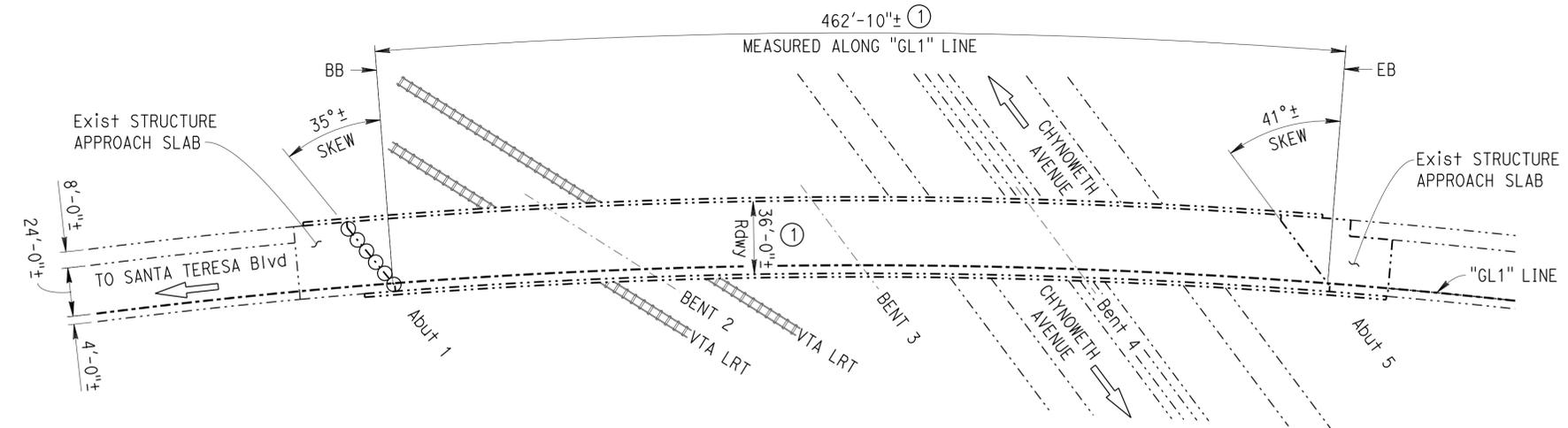
CONTRACT No.: 04-2J2501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

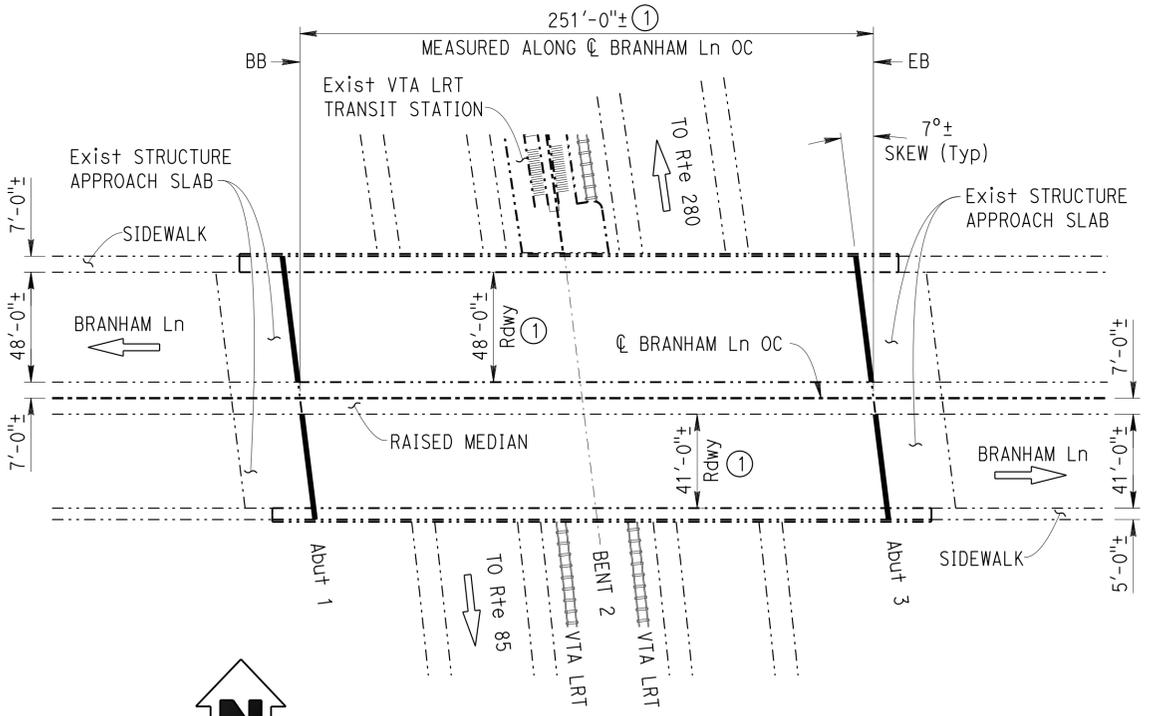
REVISION DATES	SHEET	OF
3-19-15 5-1-15 12-16-15 1-20-16 3-4-16	2	13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	28	38

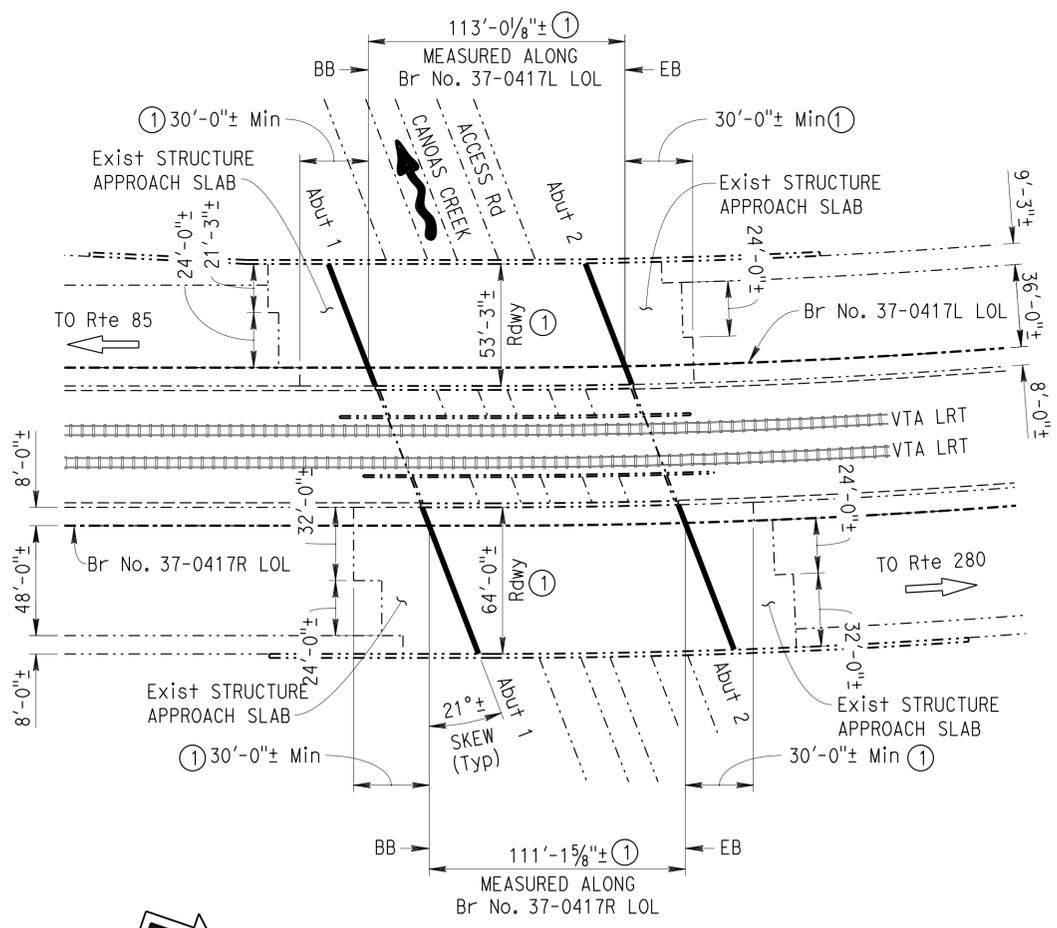
Thomas J. Bolla 3-4-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



CHYNOWETH AVENUE OVERHEAD
 Br No. 37-0414K, ROUTE 87, PM 0.21
 1" = 40'



BRANHAM LANE OVERCROSSING
 Br No. 37-0441, ROUTE 87, PM 0.90
 1" = 40'



CANOAS CREEK
 Br No. 37-0417L/R, ROUTE 87, PM 1.92
 1" = 40'

- NOTES: (APPLY TO THIS SHEET ONLY)**
- ① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.
 - Indicates limits of bridge removal (portion), place structural concrete, bridge, and place new joint seal. For details see "JOINT RECONSTRUCTION DETAILS" on "MISCELLANEOUS DETAILS No. 1" sheet. For joint seal details see "JOINT SEAL DETAILS" sheet.
 - Indicates limits of clean expansion joint and place new joint seal. For details see "JOINT SEAL DETAILS" sheet.

CHYNOWETH AVENUE OH BRIDGE NO. 37-0414K

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	16,661 SQFT
TREAT BRIDGE DECK	16,661 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	185 GAL
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
TEMPORARY DECKING	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	1 CY
CLEAN EXPANSION JOINT	44 LF
BONDED JOINT SEAL (MR 1/2")	44 LF

BRANHAM LANE OC BRIDGE NO. 37-0441

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	22,339 SQFT
TREAT BRIDGE DECK	22,339 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	249 GAL
CLEAN EXPANSION JOINT	208 LF
JOINT SEAL (MR 1/2")	208 LF

CANOAS CREEK BRIDGE NO. 37-0417L/R

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	20,892 SQFT
TREAT BRIDGE DECK	20,892 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	232 GAL
CLEAN EXPANSION JOINT	252 LF
JOINT SEAL (MR 1/2")	252 LF

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

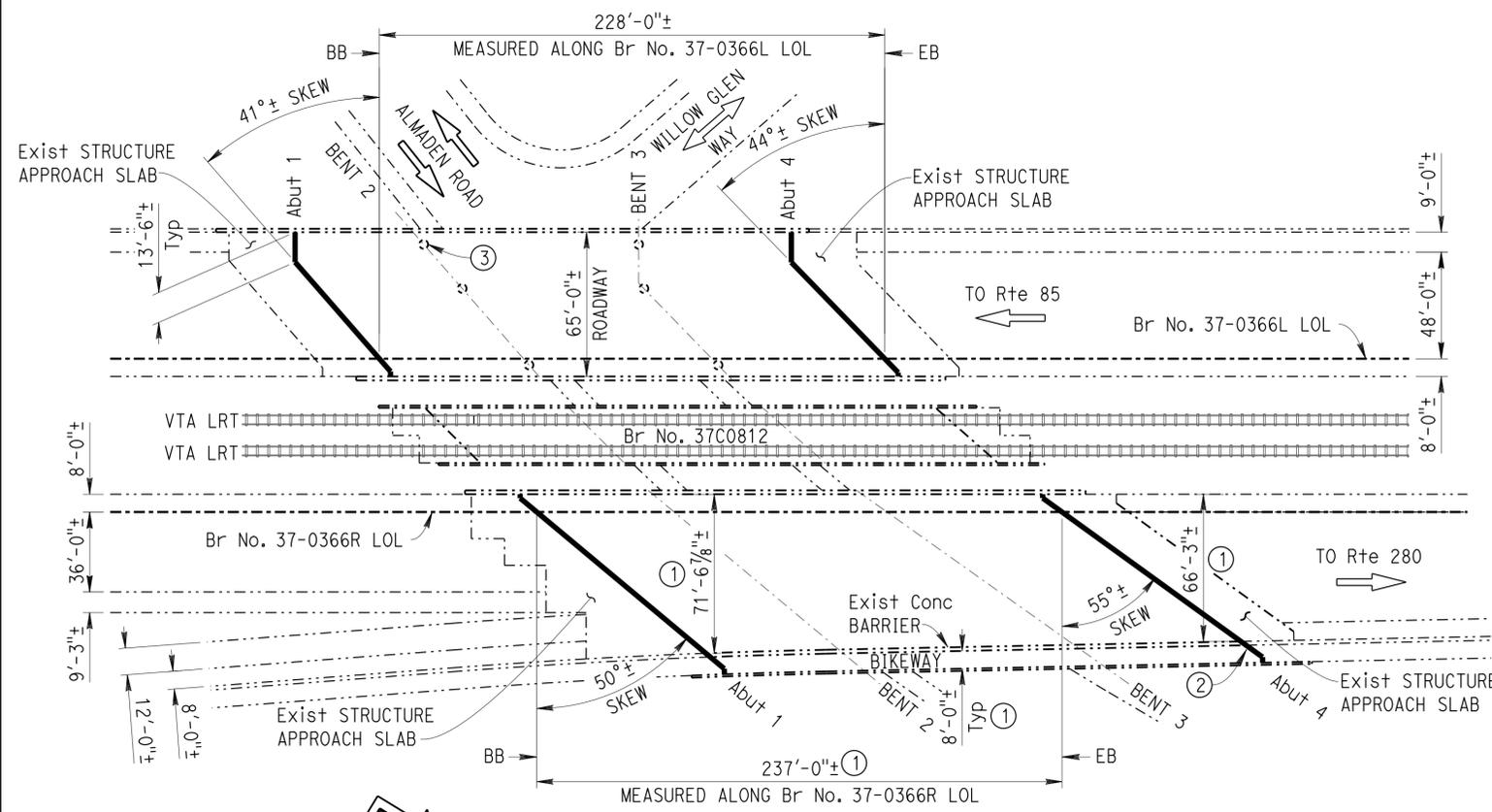
DESIGN	BY FRANZ ESPINOZA	CHECKED T. BOLLA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED T. BOLLA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY FRANZ ESPINOZA	CHECKED T. BOLLA	SPECIFICATIONS	BY SIRISHA NELAPATLA

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

ROUTES 85, 87, 101, 237, 280, 680 & 880 BRIDGES
TREAT DECK & REPLACE JOINT SEALS
 GENERAL PLAN No. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	30	38

Thomas J. Bolla 3-4-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 PLANS APPROVAL DATE
 THOMAS J. BOLLA
 No. C 43811
 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 electronic copies of this plan sheet.



ALMADEN ROAD UNDERCROSSING

Br No. 37-0366L/R, ROUTE 87, PM 3.58
1" = 40'

ALMADEN ROAD UC BRIDGE NO. 37-0366L/R

QUANTITIES

PAINT BRIDGE IDENTIFICATION	1	EA
PREPARE CONCRETE BRIDGE DECK SURFACE	18,520	SQFT
TREAT BRIDGE DECK	18,520	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	206	GAL
BRIDGE REMOVAL (PORTION), LOCATION F	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	1	CY
CLEAN EXPANSION JOINT	427	LF
JOINT SEAL (MR 1")	427	LF

ALMA OVERHEAD BRIDGE NO. 37-0420L

QUANTITIES

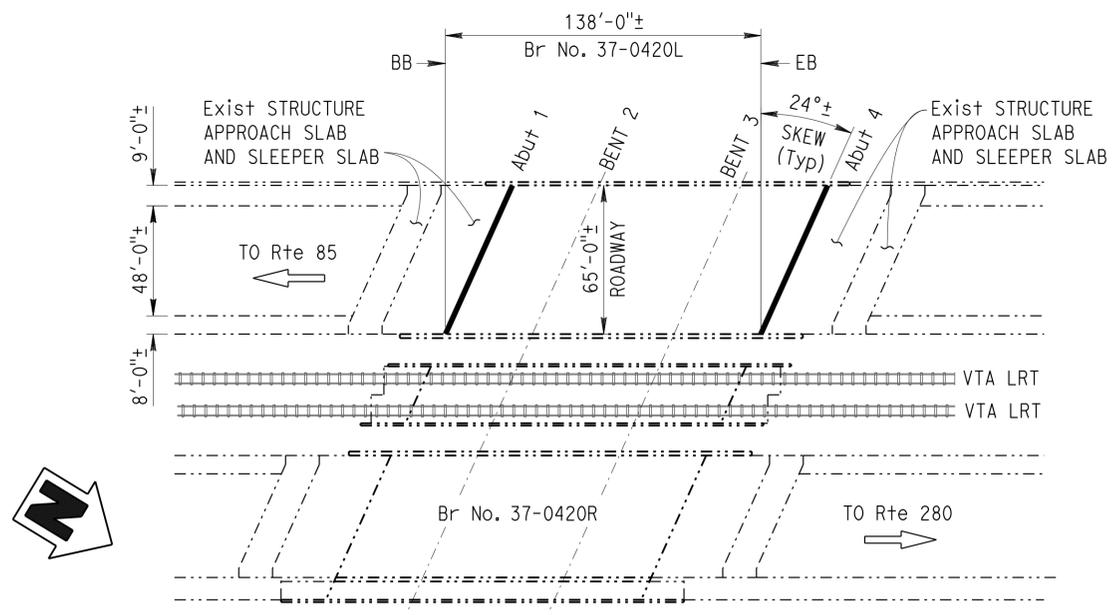
CLEAN EXPANSION JOINT	144	LF
JOINT SEAL (MR 1/2")	144	LF

ALMA AVENUE UC BRIDGE NO. 37-0368R

QUANTITIES

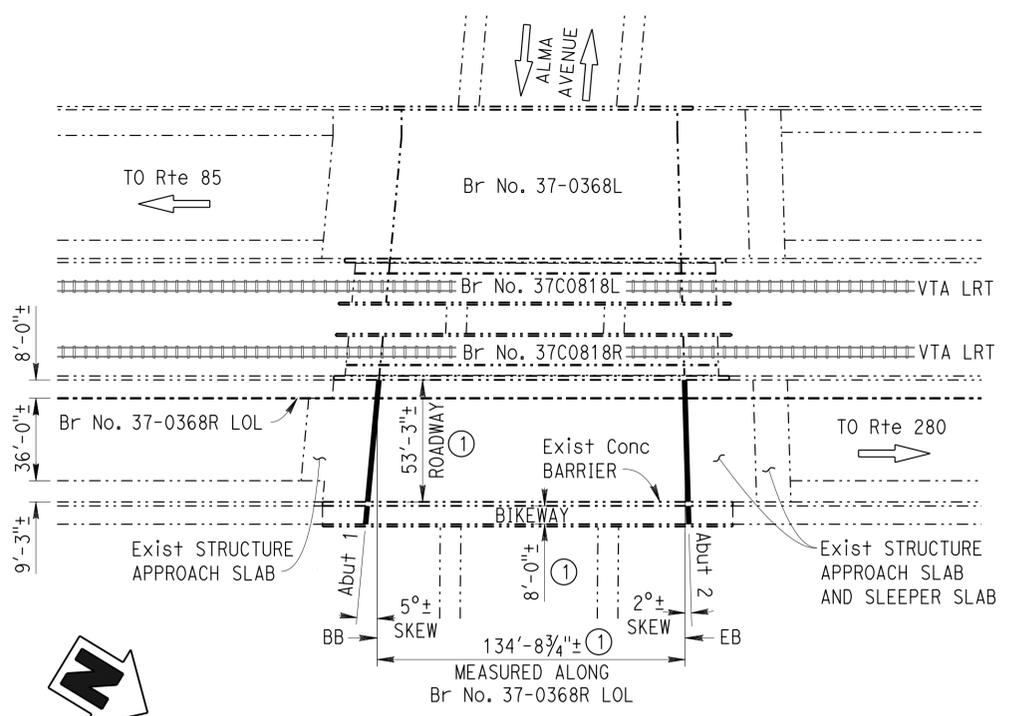
PREPARE CONCRETE BRIDGE DECK SURFACE	8,434	SQFT
TREAT BRIDGE DECK	8,434	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	94	GAL
CLEAN EXPANSION JOINT	127	LF
JOINT SEAL (MR 1/2")	63	LF
JOINT SEAL (MR 1")	64	LF

- NOTES:** (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.
 - Indicates location of bridge removal (portion) and placing structural concrete, bridge at Abutment 4 backwall. For details see "ABUTMENT 4 - PARTIAL ELEVATION" on "MISCELLANEOUS DETAILS No. 2" sheet.
 - Indicates location to paint on column at Bent 2:
ALMADEN ROAD UC
BR NO 37-0366L RTE 87 PM 3.58
1991
- Indicates limits of clean expansion joint and place new joint seal. For details see "JOINT SEAL DETAILS" sheet.



ALMA OVERHEAD

Br No. 37-0420L, ROUTE 87, PM 3.88
1" = 40'



ALMA AVENUE UNDERCROSSING

Br No. 37-0368R, ROUTE 87, PM 4.07
1" = 40'

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

ROUTES 85, 87, 101, 237, 280, 680 & 880 BRIDGES

TREAT DECK & REPLACE JOINT SEALS

GENERAL PLAN No. 5

Michael J. Lee 3-4-16
DESIGN ENGINEER

DESIGN	BY FRANZ ESPINOZA	CHECKED T. BOLLA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED T. BOLLA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY FRANZ ESPINOZA	CHECKED T. BOLLA	SPECIFICATIONS	BY SIRISHA NELAPATLA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

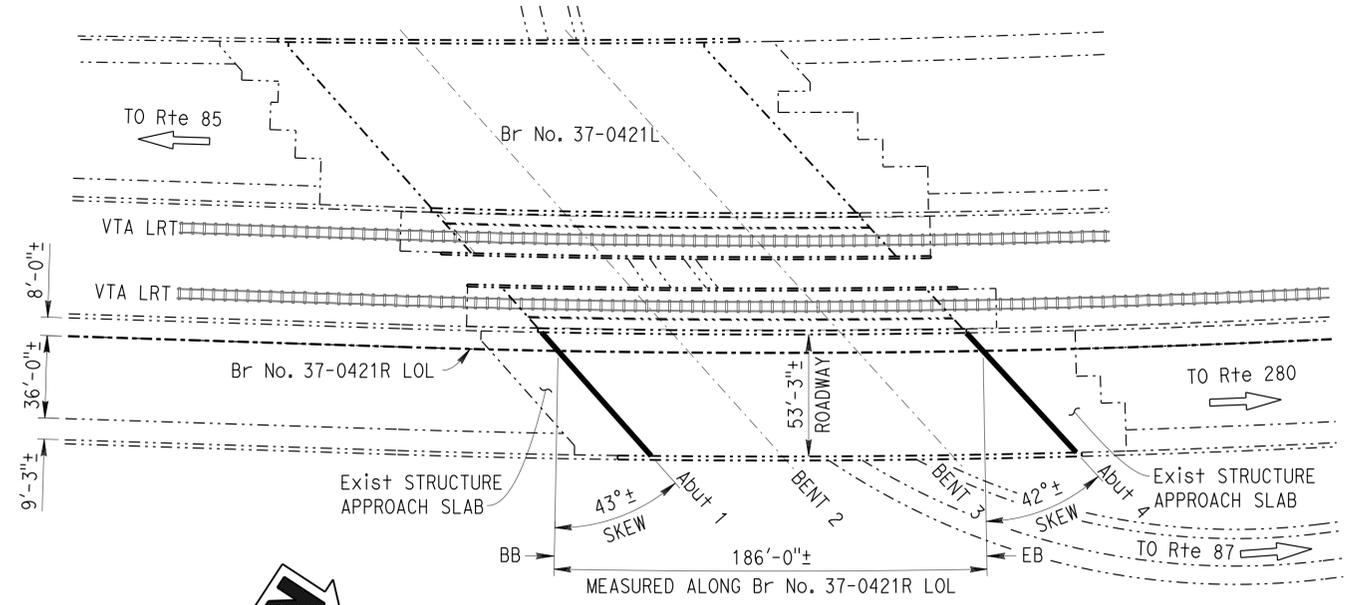
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE No. VARIOUS
POST MILE VARIES

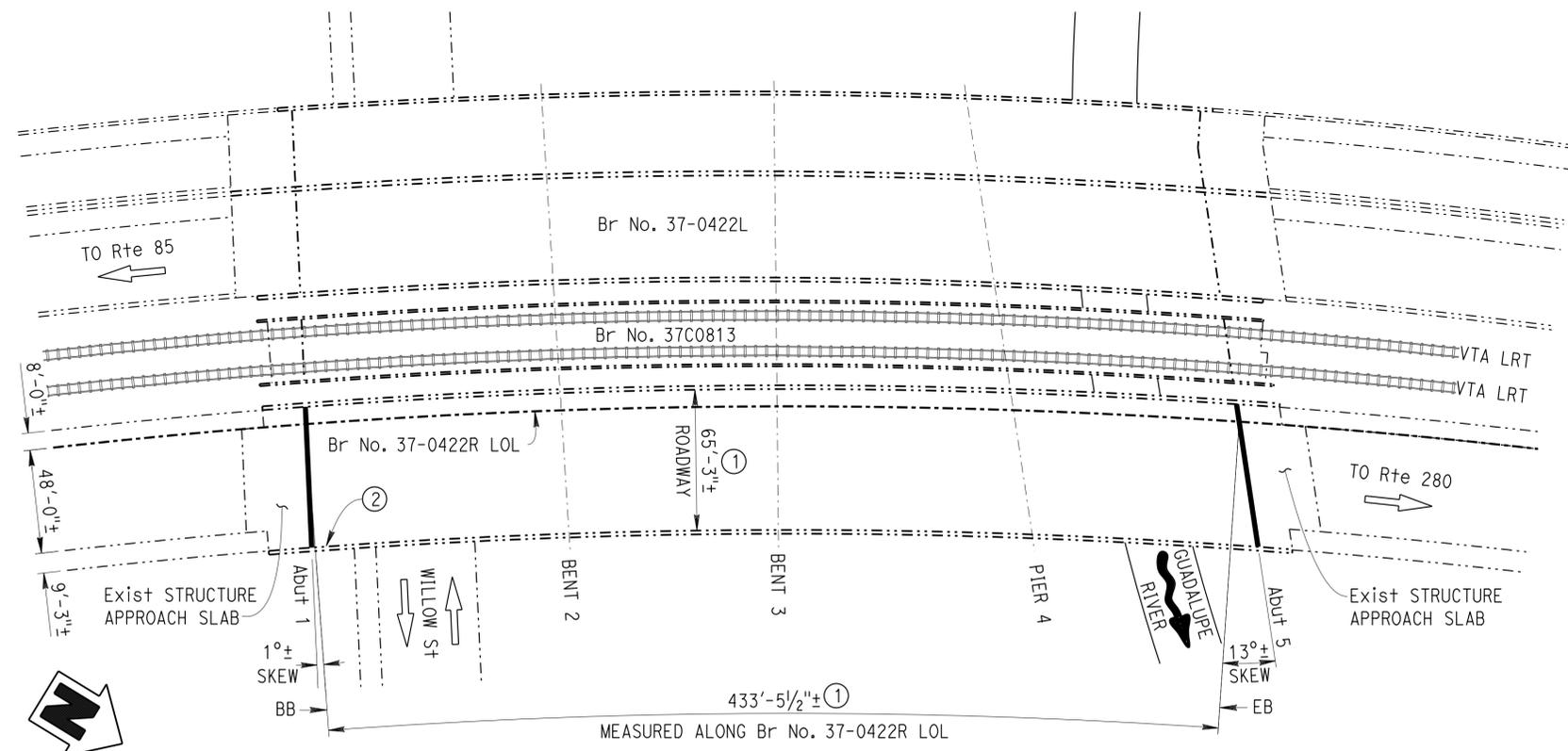
USERNAME => s133460 DATE PLOTTED => 05-APR-2016 TIME PLOTTED => 08:13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	31	38

Thomas J. Bolla 3-4-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 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.



ALMA STATION UNDERCROSSING
 Br No. 37-0421R, ROUTE 87, PM 4.23
 1" = 40'



WILLOW STREET VIADUCT
 Br No. 37-0422R, ROUTE 87, PM 4.55
 1" = 40'

ALMA STATION UC BRIDGE NO. 37-0421R

QUANTITIES

CLEAN EXPANSION JOINT	145 LF
JOINT SEAL (MR 1")	145 LF

WILLOW STREET VIADUCT BRIDGE NO. 37-0422R

QUANTITIES

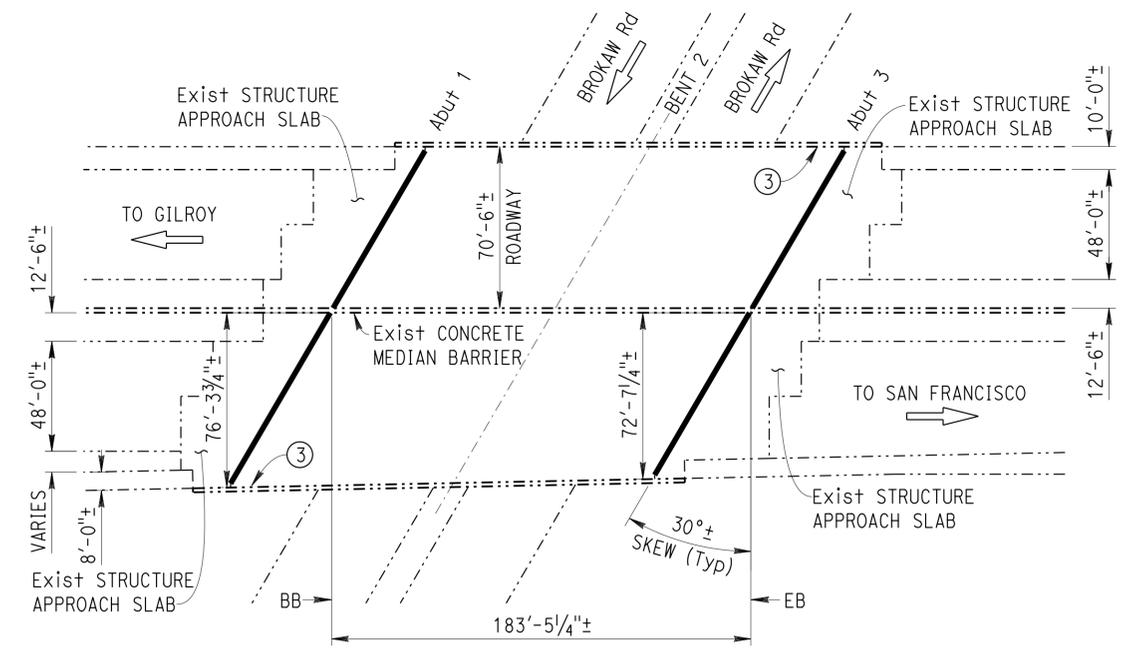
PAINT BRIDGE IDENTIFICATION	1 EA
PREPARE CONCRETE BRIDGE DECK SURFACE	28,644 SQFT
TREAT BRIDGE DECK	28,644 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	318 GAL
CLEAN EXPANSION JOINT	134 LF
JOINT SEAL (MR 2")	134 LF

BROKAW ROAD UC BRIDGE NO. 37-0490

QUANTITIES

PAINT BRIDGE IDENTIFICATION	2 EA
CLEAN EXPANSION JOINT	335 LF
JOINT SEAL (MR 2")	335 LF

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.
 - Indicates location to paint on barrier rail:
WILLOW STREET VIADUCT
BR NO 37-0422R RTE 87 PM 4.55
1989
 - Indicates location to paint on barrier rail:
BROKAW ROAD UC
BR NO 37-0490 RTE 101 PM 39.44
1993
- Indicates limits of clean expansion joint and place new joint seal. For details see "JOINT SEAL DETAILS" sheet.



BROKAW ROAD UNDERCROSSING
 Br No. 37-0490, ROUTE 101, PM 39.44
 1" = 40'

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

Michael J. Lee 3-4-16
 DESIGN ENGINEER

DESIGN	BY FRANZ ESPINOZA	CHECKED T. BOLLA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED T. BOLLA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY FRANZ ESPINOZA	CHECKED T. BOLLA	SPECIFICATIONS	BY SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

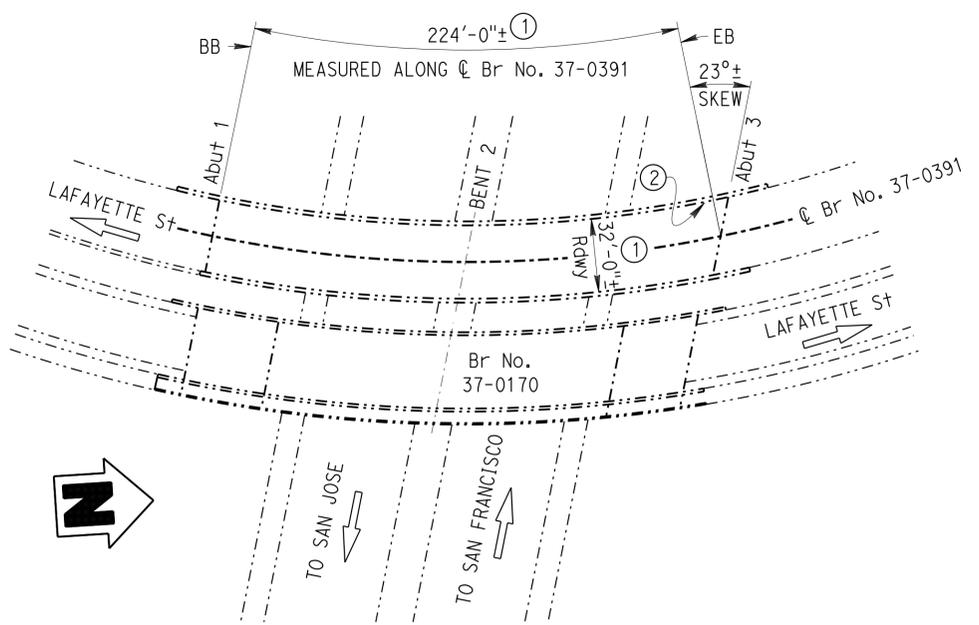
ROUTES 85, 87, 101, 237, 280, 680 & 880 BRIDGES

TREAT DECK & REPLACE JOINT SEALS

GENERAL PLAN No. 6

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	32	38

Thomas J. Bolla 3-4-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 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.



LAFAYETTE STREET OVERCROSSING
 Br No. 37-0391, ROUTE 101, PM 41.08
 1" = 40'

LAFAYETTE STREET OC BRIDGE NO. 37-0391

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM	
PAINT BRIDGE IDENTIFICATION	1 EA	
PREPARE CONCRETE BRIDGE DECK SURFACE	7,168 SQFT	
TREAT BRIDGE DECK	7,168 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	80 GAL	

MOORPARK AVENUE UC BRIDGE NO. 37-0188F

QUANTITIES

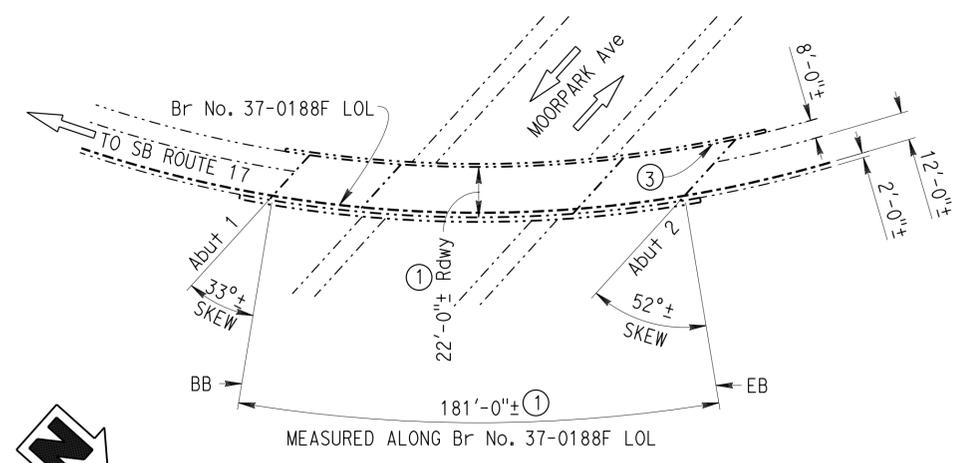
PUBLIC SAFETY PLAN	LUMP SUM	
PAINT BRIDGE IDENTIFICATION	1 EA	
PREPARE CONCRETE BRIDGE DECK SURFACE	4,061 SQFT	
TREAT BRIDGE DECK	4,061 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	45 GAL	

SAN TOMAS AQUINO CREEK BRIDGE NO. 37-0159L

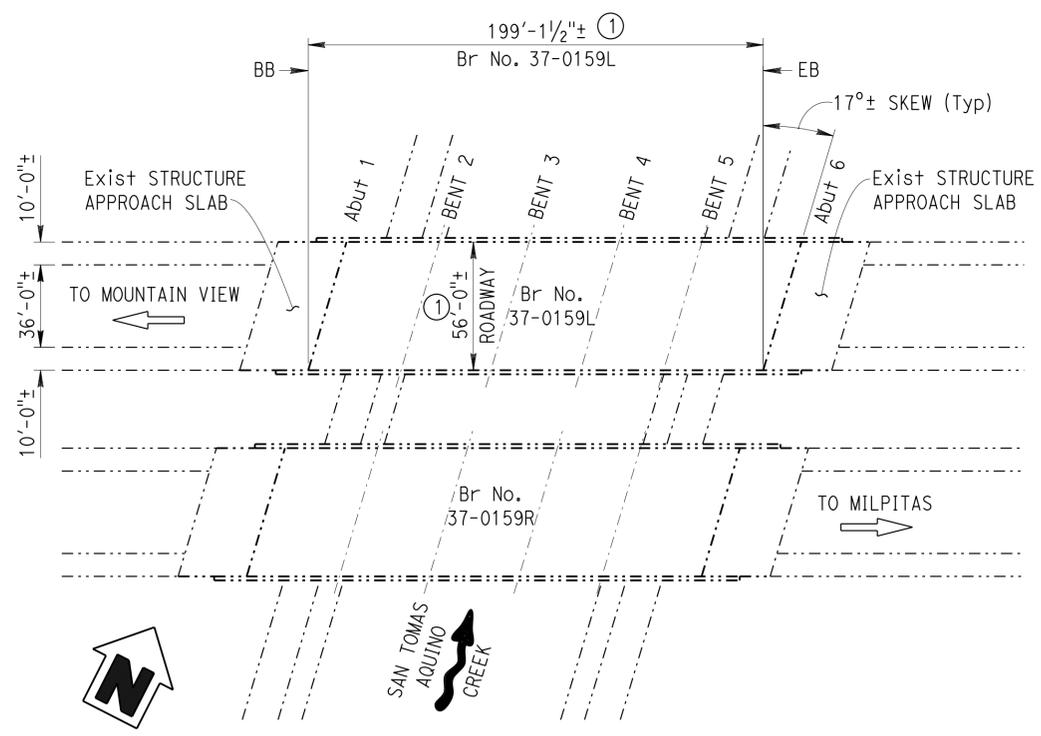
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	11,151 SQFT	
TREAT BRIDGE DECK	11,151 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	124 GAL	

- NOTES: (APPLY TO THIS SHEET ONLY)
- ① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.
 - ② Indicates location to paint on barrier rail:
LAFAYETTE STREET OC
BR NO 37-0391 RTE 101 PM 41.08
1975
 - ③ Indicates location to paint on barrier rail:
MOORPARK AVENUE UC
BR NO 37-0188F RTE 280 PM L5.49
1964



MOORPARK AVENUE UNDERCROSSING
 Br No. 37-0188F, ROUTE 280, PM L5.49
 1" = 40'



SAN TOMAS AQUINO CREEK
 Br No. 37-0159L, ROUTE 237, PM R5.68
 1" = 40'

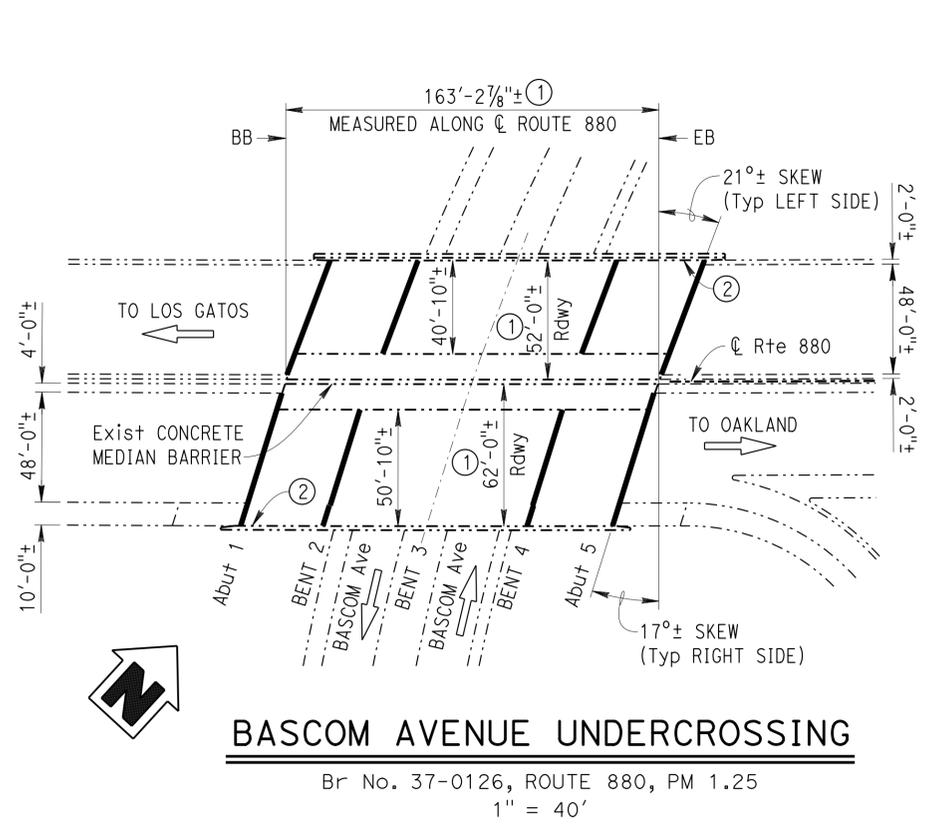
NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 DESIGN ENGINEER 3-4-16	DESIGN	BY FRANZ ESPINOZA	CHECKED T. BOLLA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE No.	VARIOUS
	DETAILS	BY G.F. BIDWELL	CHECKED T. BOLLA	LAYOUT	BY G.F. BIDWELL		POST MILE	VARIES
	QUANTITIES	BY FRANZ ESPINOZA	CHECKED T. BOLLA	SPECIFICATIONS	BY SIRISHA NELAPATLA		PLANS AND SPECS COMPARED	SIRISHA NELAPATLA

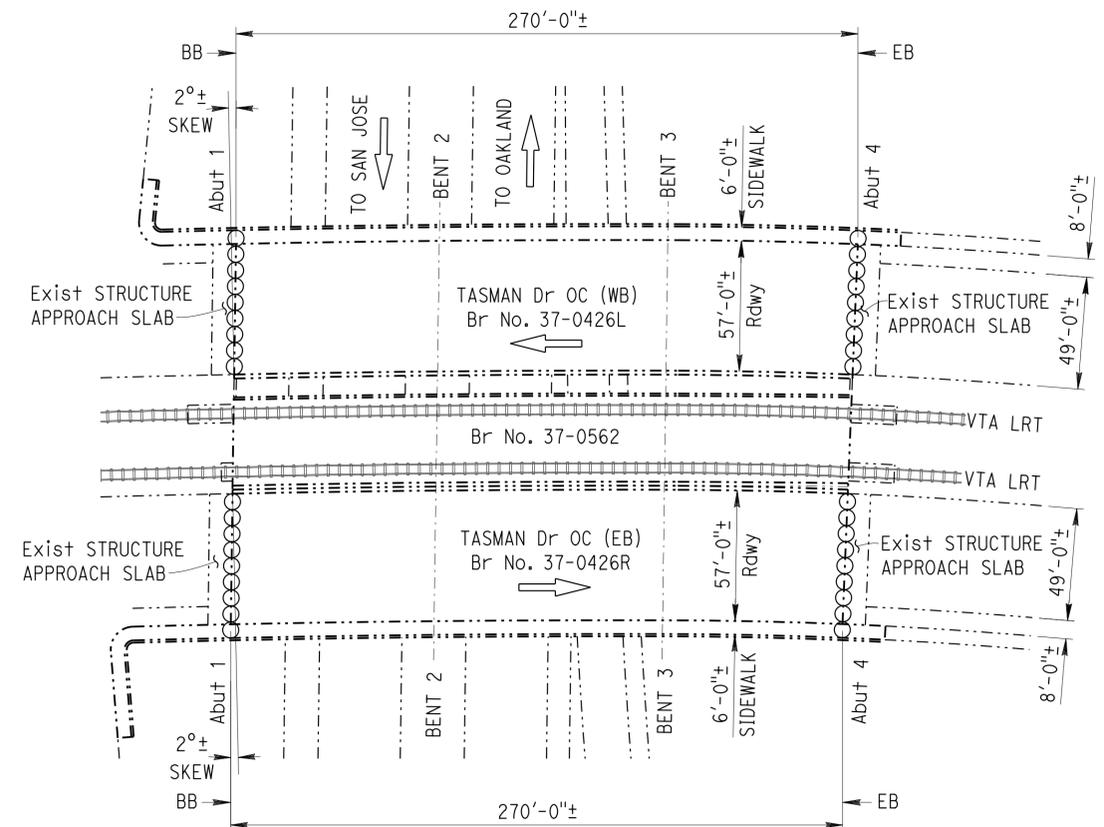
ROUTES 85, 87, 101, 237, 280, 680 & 880 BRIDGES	
TREAT DECK & REPLACE JOINT SEALS	
GENERAL PLAN No. 7	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	34	38

Thomas J. Bolla 3-4-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 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.

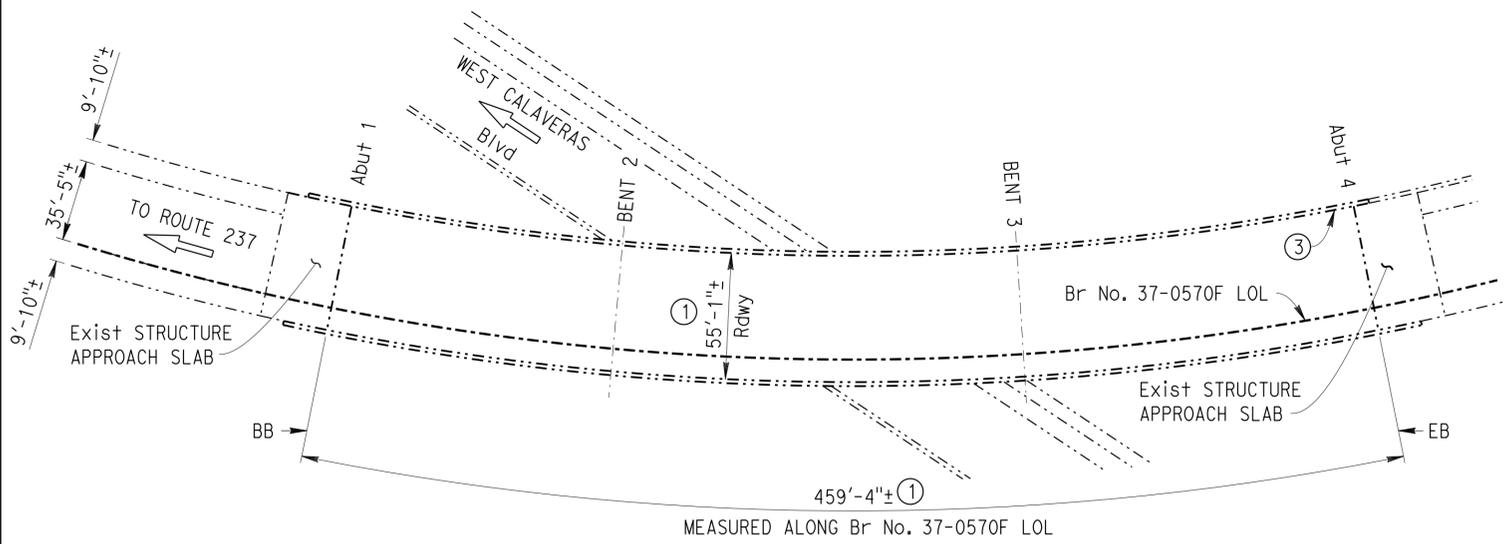


BASCOM AVENUE UNDERCROSSING
 Br No. 37-0126, ROUTE 880, PM 1.25
 1" = 40'



TASMAN DRIVE OVERCROSSING
 Br No. 37-0426L/R, ROUTE 880, PM 7.68
 1" = 40'

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.
 - Indicates location to paint on barrier rail:
BASCOM AVENUE UC
BR NO 37-0126 RTE 880 PM 1.25 1959
 - Indicates location to paint on barrier rail:
S880-W237 CONN SEP
BR NO 37-0570F RTE 880 PM 8.45 2001
- Indicates limits of bridge removal (portion), place structural concrete, bridge, and place new joint seal. For details see "JOINT RECONSTRUCTION DETAILS" on "MISCELLANEOUS DETAILS No. 1" sheet. For joint seal details see "JOINT SEAL DETAILS" sheet.
- / Indicates limits of clean expansion joint and place new joint seal. For details see "JOINT SEAL DETAILS" sheet.



S880-W237 CONNECTOR SEPARATION
 Br No. 37-0570F, ROUTE 880, PM 8.45
 1" = 40'

BASCOM AVENUE UC		BRIDGE NO. 37-0126	S880-W237 CONNECTOR SEPARATION		BRIDGE NO. 37-0570F
QUANTITIES			QUANTITIES		
PUBLIC SAFETY PLAN	LUMP SUM		PUBLIC SAFETY PLAN	LUMP SUM	
PAINT BRIDGE IDENTIFICATION	2 EA		PAINT BRIDGE IDENTIFICATION	1 EA	
PREPARE CONCRETE BRIDGE DECK SURFACE	18,609 SQFT		PREPARE CONCRETE BRIDGE DECK SURFACE	25,317 SQFT	
TREAT BRIDGE DECK	18,609 SQFT		TREAT BRIDGE DECK	25,317 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	207 GAL		FURNISH BRIDGE DECK TREATMENT MATERIAL	282 GAL	
CLEAN EXPANSION JOINT	428 LF				
JOINT SEAL (MR 1/2")	428 LF				
TASMAN DRIVE OC		BRIDGE NO. 37-0426L/R	QUANTITIES		
BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM				
TEMPORARY DECKING	LUMP SUM				
STRUCTURAL CONCRETE, BRIDGE	4 CY				
CLEAN EXPANSION JOINT	256 LF				
JOINT SEAL (MR 1")	256 LF				

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

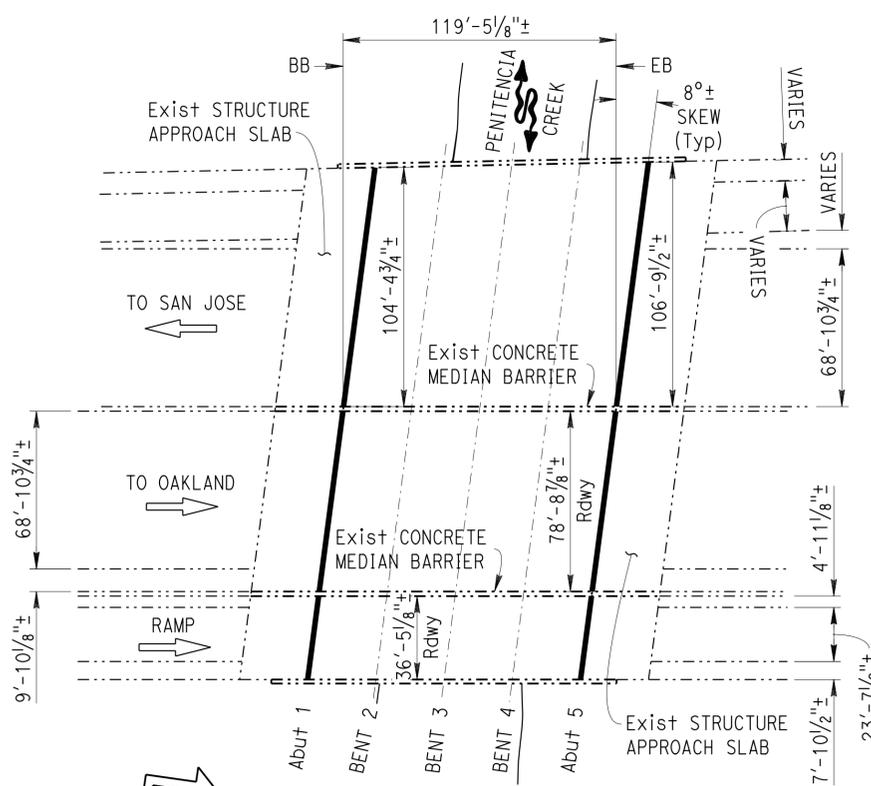
DESIGN	BY FRANZ ESPINOZA	CHECKED T. BOLLA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED T. BOLLA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY FRANZ ESPINOZA	CHECKED T. BOLLA	SPECIFICATIONS	BY SIRISHA NELAPATLA

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

ROUTES 85, 87, 101, 237, 280, 680 & 880 BRIDGES
TREAT DECK & REPLACE JOINT SEALS
 GENERAL PLAN No. 9

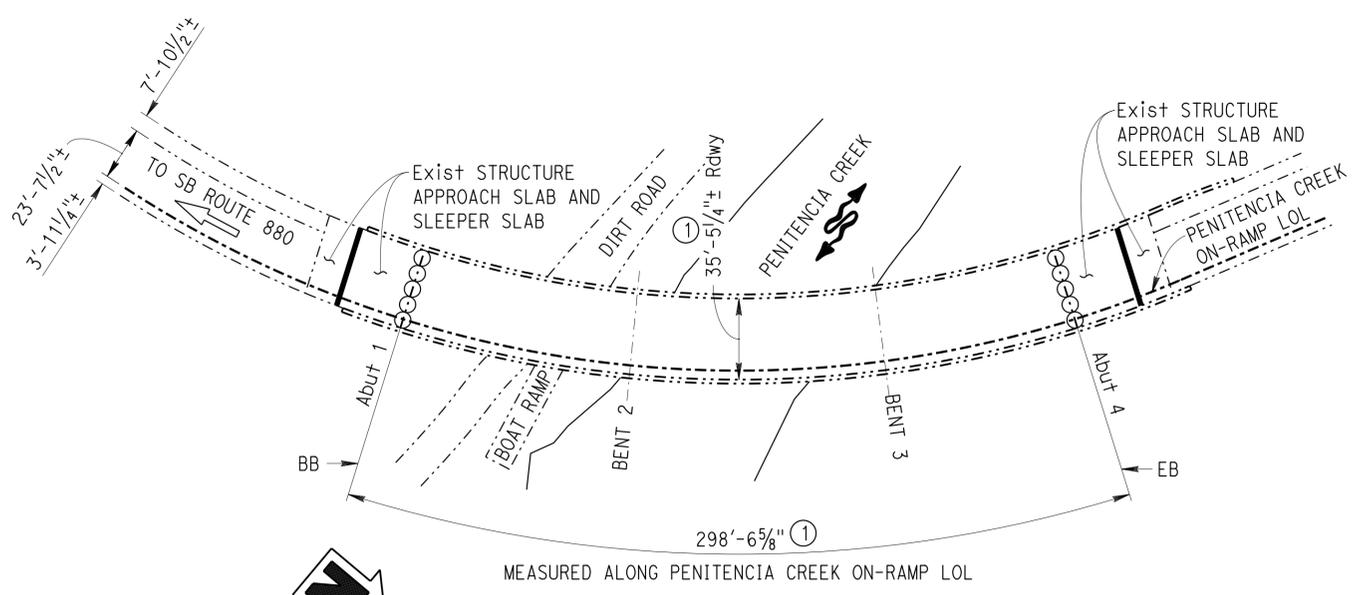
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	35	38

Thomas J. Bolla 3-4-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 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.



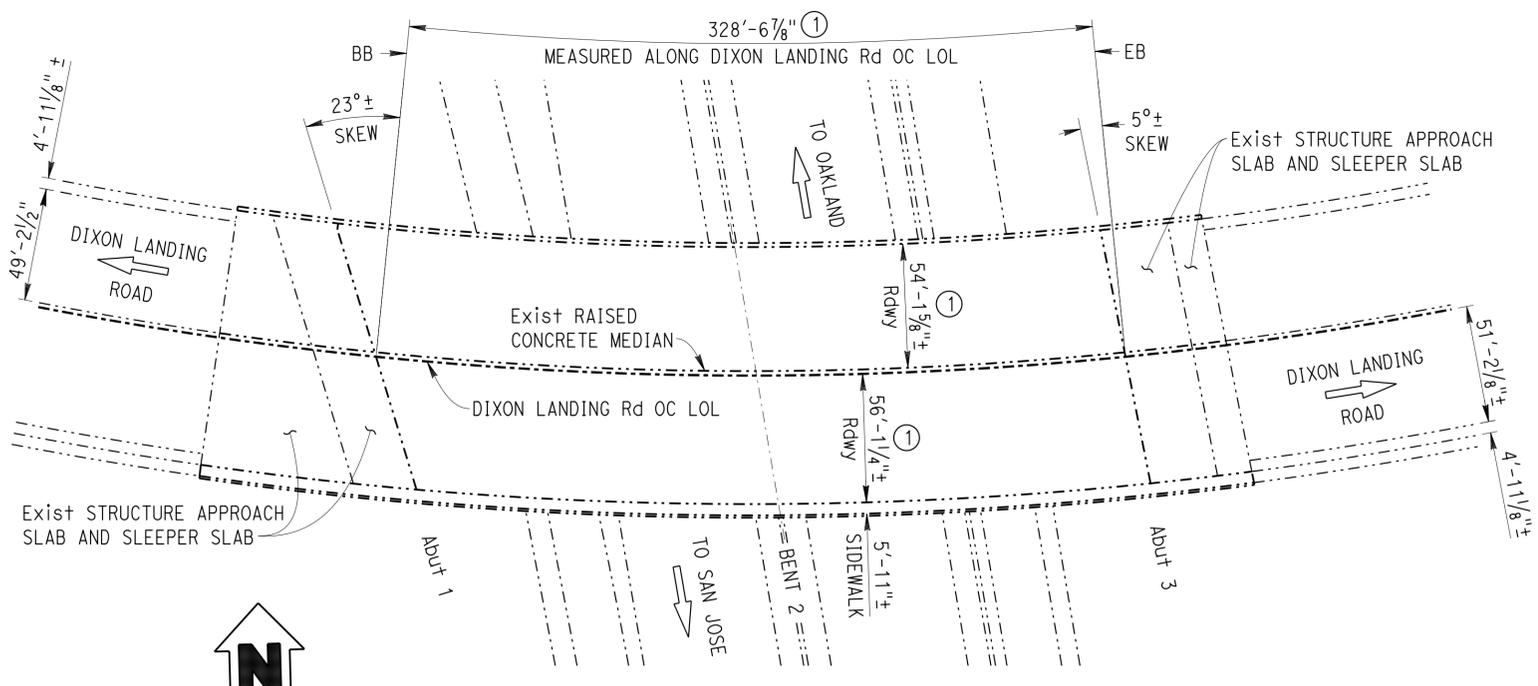
PENITENCIA CREEK

Br No. 37-0582, ROUTE 880, PM 10.38
1" = 40'



PENITENCIA CREEK ON-RAMP

Br No. 37-0582K, ROUTE 880, PM 10.38
1" = 40'



DIXON LANDING ROAD OVERCROSSING

Br No. 37-0581, ROUTE 880, PM 10.42
1" = 40'

- NOTES: (APPLY TO THIS SHEET ONLY)
- ① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. For details see "DECK TREATMENT LIMITS" on "MISCELLANEOUS DETAILS No. 2" sheet.
 - Indicates limits of bridge removal (portion), place structural concrete, bridge, and place new joint seal. For details see "JOINT RECONSTRUCTION DETAILS" on "MISCELLANEOUS DETAILS No. 1" sheet. For joint seal details see "JOINT SEAL DETAILS" sheet.
 - Indicates limits of clean expansion joint and place new joint seal. For details see "JOINT SEAL DETAILS" sheet.

PENITENCIA CREEK	BRIDGE NO. 37-0582	QUANTITIES	
CLEAN EXPANSION JOINT	448 LF		
JOINT SEAL (MR 1/2")	448 LF		
PENITENCIA CREEK ON-RAMP	BRIDGE NO. 37-0582K	QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	10,580 SQFT		
TREAT BRIDGE DECK	10,580 SQFT		
FURNISH BRIDGE DECK TREATMENT MATERIAL	118 GAL		
BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM		
TEMPORARY DECKING	LUMP SUM		
STRUCTURAL CONCRETE, BRIDGE	1 CY		
CLEAN EXPANSION JOINT	144 LF		
JOINT SEAL (MR 1/2")	72 LF		
JOINT SEAL (MR 1")	72 LF		
DIXON LANDING ROAD OC	BRIDGE NO. 37-0581	QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	36,221 SQFT		
TREAT BRIDGE DECK	36,221 SQFT		
FURNISH BRIDGE DECK TREATMENT MATERIAL	404 GAL		

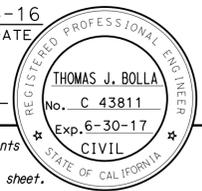
NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY FRANZ ESPINOZA	CHECKED T. BOLLA	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY G.F. BIDWELL	CHECKED T. BOLLA	LAYOUT	BY G.F. BIDWELL
QUANTITIES	BY FRANZ ESPINOZA	CHECKED T. BOLLA	SPECIFICATIONS	BY SIRISHA NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN
 BRIDGE No. VARIOUS
 POST MILE VARIES

ROUTES 85, 87, 101, 237, 280, 680 & 880 BRIDGES
TREAT DECK & REPLACE JOINT SEALS
GENERAL PLAN No. 10

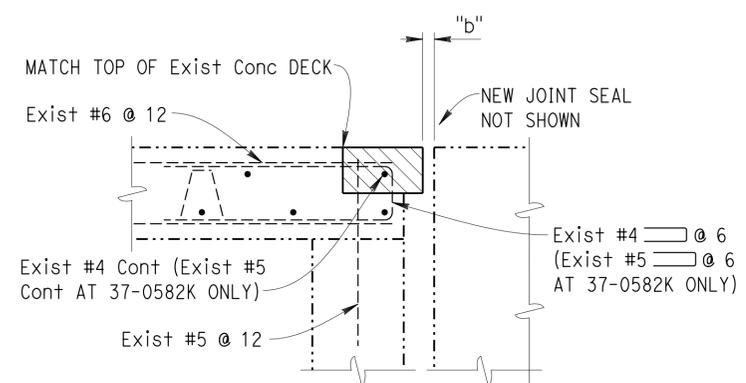
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	36	38
Thomas J. Bolla REGISTERED CIVIL ENGINEER			3-4-16 DATE		
			3-28-16 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



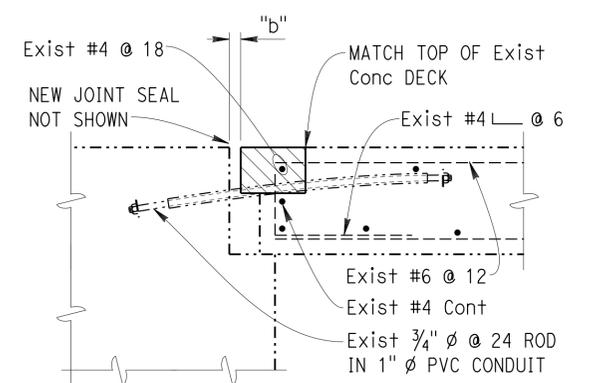
TEMPORARY DECK PLATE LOAD CRITERIA		
MOMENT DEMAND/FOOT (kip-ft/ft)	ANCHOR BOLT SHEAR/FOOT (kip/ft)	ANCHOR BOLT TENSION (kip)
2.8	3.9	4.3

PLATE DEFLECTION SHALL NOT EXCEED S/300 (S = SPAN OF PLATE).
 MAXIMUM ANCHOR BOLT SPACING = 0'-9".
 FOR USE AT JOINT RECONSTRUCTION LOCATIONS.

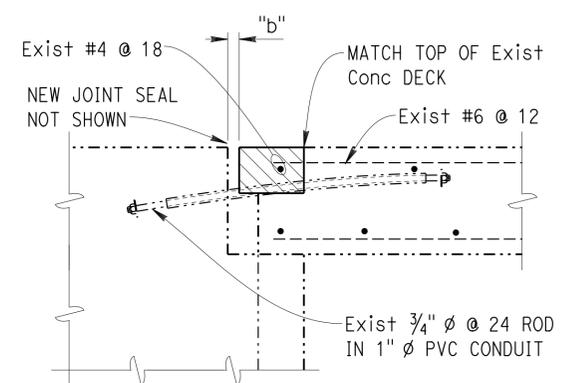
- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove existing concrete and joint seal. Retain existing reinforcing steel.
 - Indicates limits of place new concrete.
 - "b" Reconstructed gap width as determined by the Engineer.



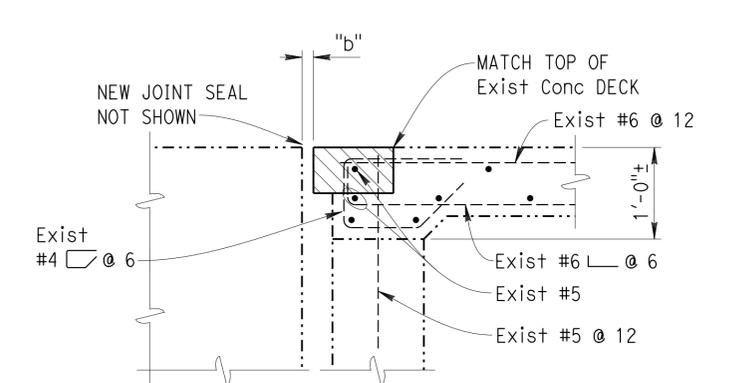
RECONSTRUCTION



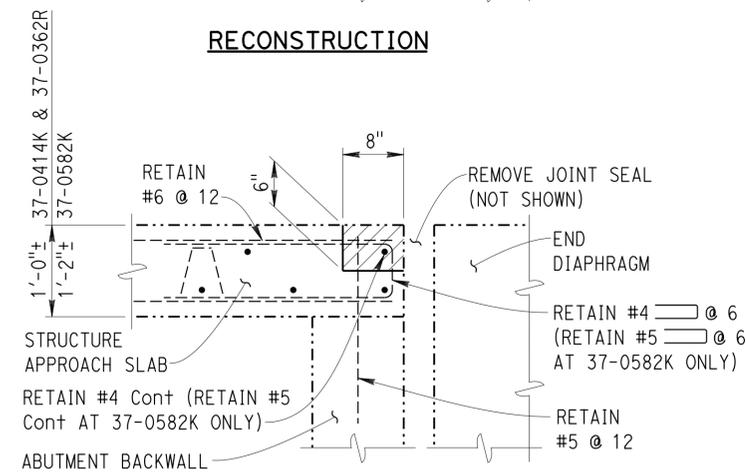
RECONSTRUCTION



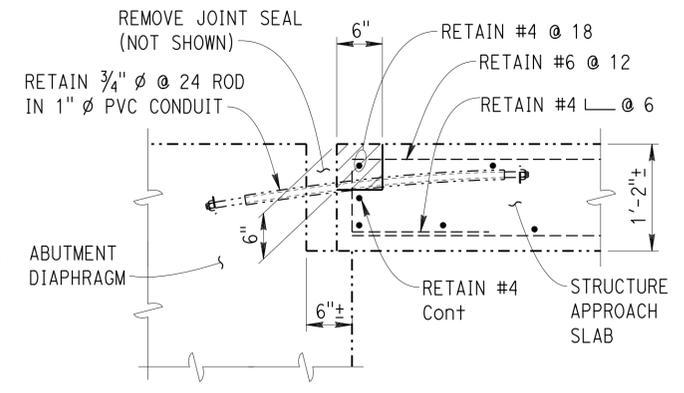
RECONSTRUCTION



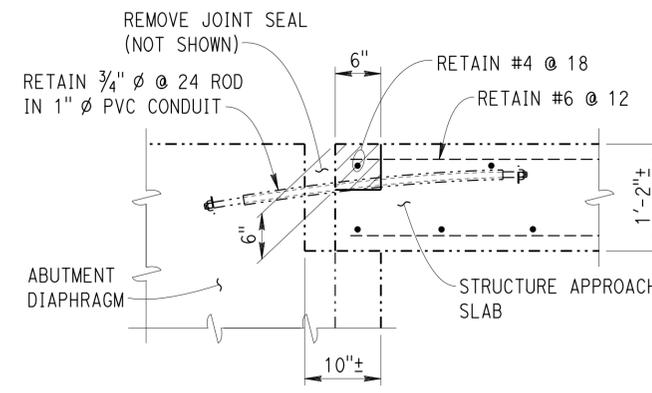
RECONSTRUCTION



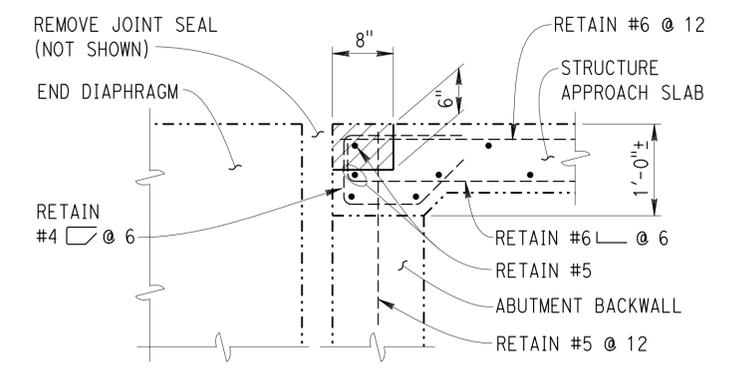
EXISTING



EXISTING



EXISTING



EXISTING

Br No. 37-0414K, 37-0362R & 37-0582K

Br No. 37-0375 WESTBOUND

Br No. 37-0375 EASTBOUND

Br No. 37-0426L/R

JOINT RECONSTRUCTION DETAILS

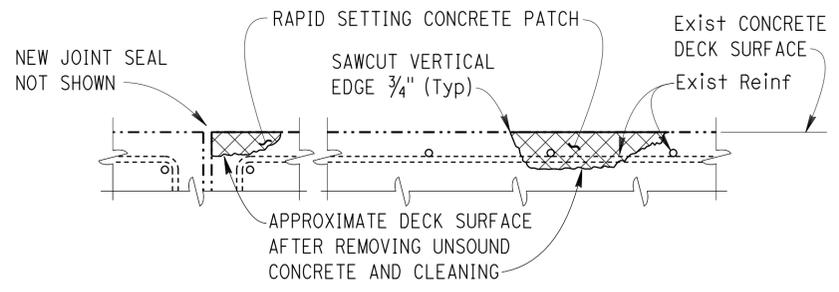
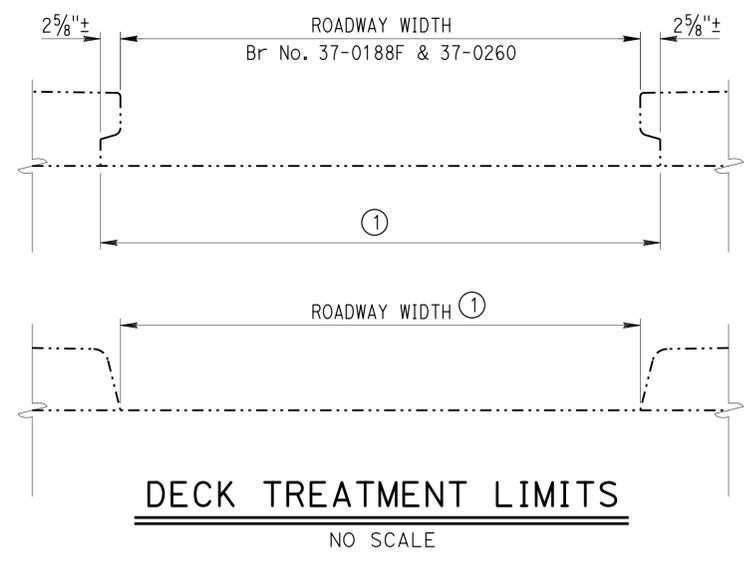
1" = 1'

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

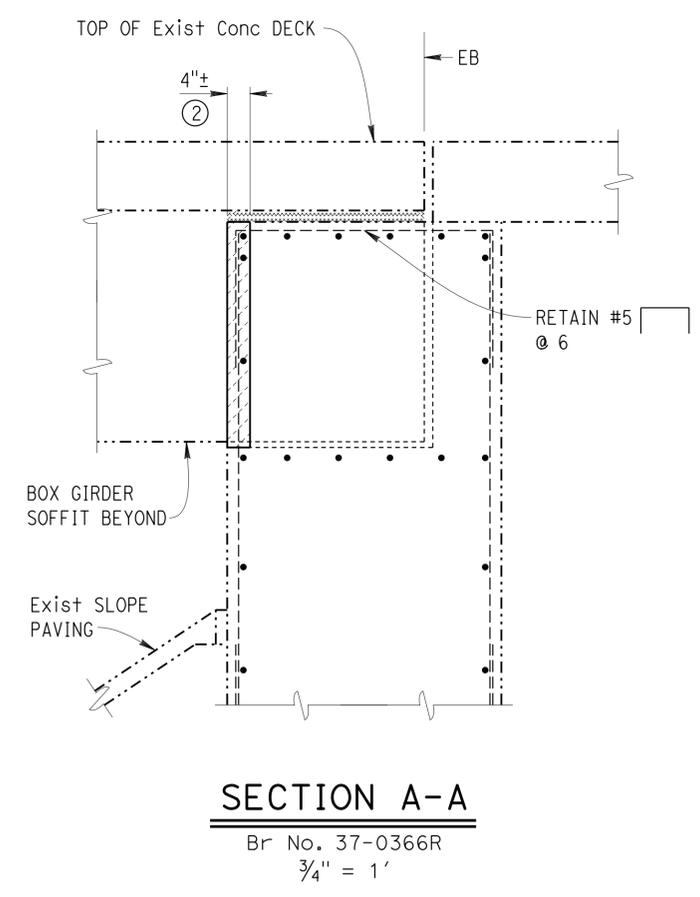
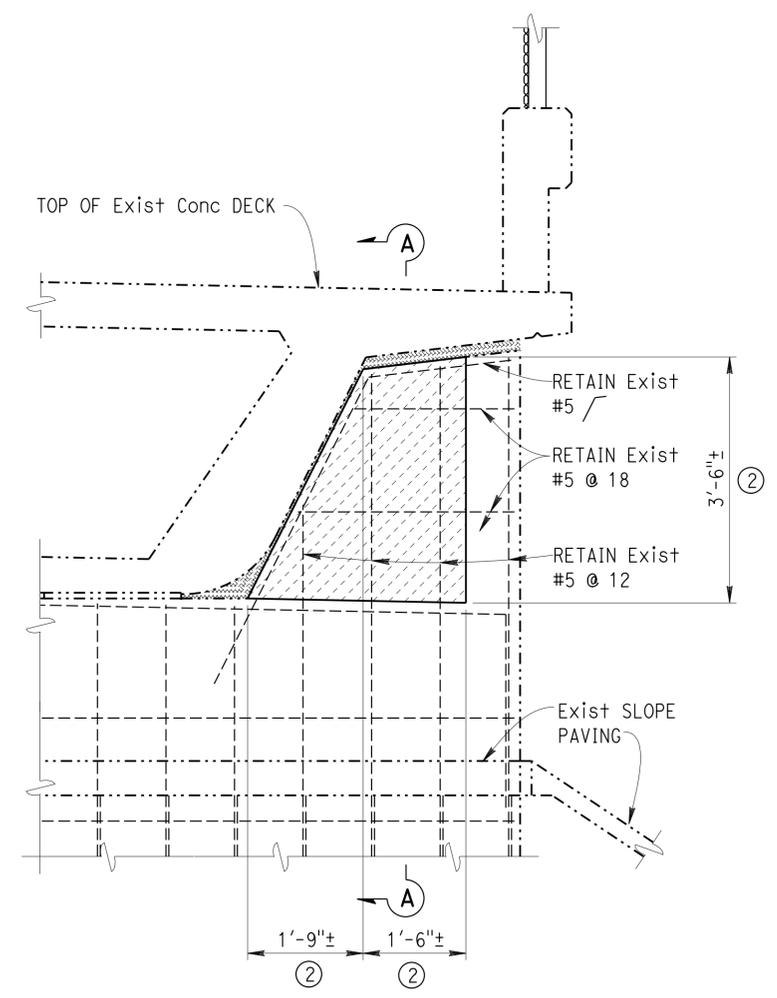
DESIGN BY FRANZ ESPINOZA CHECKED T. BOLLA DETAILS BY G.F. BIDWELL CHECKED T. BOLLA QUANTITIES BY FRANZ ESPINOZA CHECKED T. BOLLA				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN		BRIDGE No. VARIOUS POST MILE VARIES		ROUTES 85, 87, 101, 237, 280, 680 & 880 BRIDGES TREAT DECK & REPLACE JOINT SEALS MISCELLANEOUS DETAILS No. 1							
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3488 PROJECT NUMBER & PHASE: 0414000468 1		CONTRACT No.: 04-2J2501		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES: 3-18-15, 5-1-15, 12-16-15, 1-20-16, 3-4-16		SHEET 11 OF 13	

FILE => 04-2j2501_11miscdets1.dgn USERNAME => s1333460 DATE PLOTTED => 05-APR-2016 TIME PLOTTED => 08:13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	37	38
Thomas J. Bolla REGISTERED CIVIL ENGINEER			3-4-16 DATE		
			3-28-16 PLANS APPROVAL DATE		
<small>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.</small>					



- NOTES: (APPLY TO THIS SHEET ONLY)
- ① Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
 - ② Indicates limits of bridge removal (portion) and placing structural concrete, bridge at the abutment backwall at Abutment 4.



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

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3488 PROJECT NUMBER & PHASE: 0414000468 1		CONTRACT No.: 04-2J2501		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF	
DESIGN	BY FRANZ ESPINOZA	CHECKED T. BOLLA	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN		BRIDGE No.	ROUTES 85, 87, 101, 237, 280, 680 & 880 BRIDGES				12	13		
DETAILS	BY G.F. BIDWELL	CHECKED T. BOLLA					VARIOUS	TREAT DECK & REPLACE JOINT SEALS							
QUANTITIES	BY FRANZ ESPINOZA	CHECKED T. BOLLA					VARIES	MISCELLANEOUS DETAILS No. 2							
FILE => 04-2j2501_12miscdets2.dgn															

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85, 87, 101, 237, 280, etc.	Var	38	38

Thomas J. Bolla 3-4-16
 REGISTERED CIVIL ENGINEER DATE
 3-28-16
 PLANS APPROVAL DATE
 THOMAS J. BOLLA
 No. C 43811
 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 electronic copies of this plan sheet.

JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (INCHES)	
CHYNOWETH AVENUE OH	37-0414K	Abut 1 BB	1 1/2 *	44	NO	12	
BRANHAM LANE OC	37-0441	Abut 1 BB	1 1/2	104	YES	12	
		Abut 3 EB	1 1/2	104	YES	12	
CANOAS CREEK	37-0417L	Abut 1 BB	1/2	57	NO	12	
		Abut 2 EB	1/2	57	NO	12	
	37-0417R	Abut 1 BB	1/2	69	NO	12	
		Abut 2 EB	1/2	69	NO	12	
CURTNER STATION PUC	37-0433L	Abut 1 BB	1	58	NO	12	
		Abut 2 EB	1/2	59	NO	12	
CURTNER AVENUE UC	37-0362L	Abut 1 BB	1 *	89	YES	12	
		Abut 3 EB	1 *	98	YES	12	
	37-0362R	Abut 1 BB	1 **	70	YES	12	
ALMADEN ROAD UC	37-0366L	Abut 1 BB	1 **	82	NO	14	
		Abut 4 EB	1 **	85	NO	14	
	37-0366R	Abut 1 BB	1 **	127	NO	14	
		Abut 4 EB	1 **	133	NO	14	
ALMA OH	37-0420L	Abut 1 BB	1/2	72	NO	14	
		Abut 4 EB	1/2	72	NO	14	
ALMA AVENUE UC	37-0368R	Abut 1 BB	1	64	NO	14	
		Abut 2 EB	1/2	63	NO	14	
ALMA STATION UC	37-0421R	Abut 1 BB	1 **	73	NO	14	
		Abut 4 EB	1 **	72	NO	14	
WILLOW STREET VIADUCT	37-0422R	Abut 1 BB	2	66	NO	14	
		Abut 5 EB	2	68	NO	14	
BROKAW ROAD UC	37-0490	Abut 1 BB	2	170	YES	12	
		Abut 3 EB	2	165	YES	12	
HOSTETTER ROAD UC	37-0296	Abut 1 BB	1/2	139	NO	12	
		BW	1	175	YES	8	
		Abut 2 BW	1	176	YES	8	
		EB	1/2	140	NO	12	
MONTAGUE EXPRESSWAY OC	37-0375	Abut 1 SS	1/2	151	YES	6	
		BB	1 1/2 *	151	NO	14	
		EB	1 1/2 *	151	NO	14	
		SS	1/2	151	YES	6	
BASCOM AVENUE UC	37-0126	Abut 1 BB	1/2	117	NO	12	
		BENT 2 C	1/2	97	NO	9	
		BENT 4 C	1/2	97	NO	9	
		Abut 5 EB	1/2	117	NO	12	

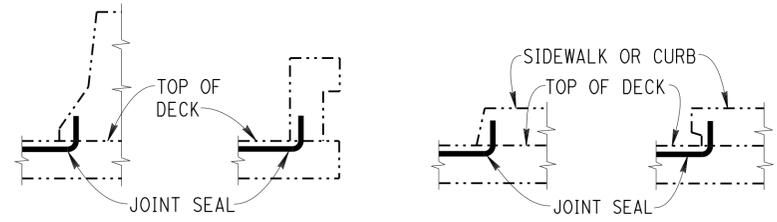
LEGEND:
 BB = BEGINNING OF BRIDGE
 EB = END OF BRIDGE
 BW = ABUTMENT BACKWALL
 SS = SLEEPER SLAB
 C = CENTERLINE OF BENTS
 * = BONDED JOINT SEAL
 ** = SILICONE JOINT SEAL

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

JOINT SEAL TABLE (CONTINUED)							
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (INCHES)	
TASMAN DRIVE OC	37-0426L	Abut 1 BB	1	64	YES	12	
		Abut 4 EB	1	64	YES	12	
	37-0426R	Abut 1 BB	1	64	YES	12	
		Abut 4 EB	1	64	YES	12	
PENITENCIA CREEK	37-0582	Abut 1 BB	1/2	223	NO	12	
		Abut 5 EB	1/2	225	NO	12	
PENITENCIA CREEK ON-RAMP	37-0582K	Abut 1 SS	1/2	36	YES	7	
		BB	1	36	YES	14	
		EB	1	36	YES	14	
		SS	1/2	36	YES	7	

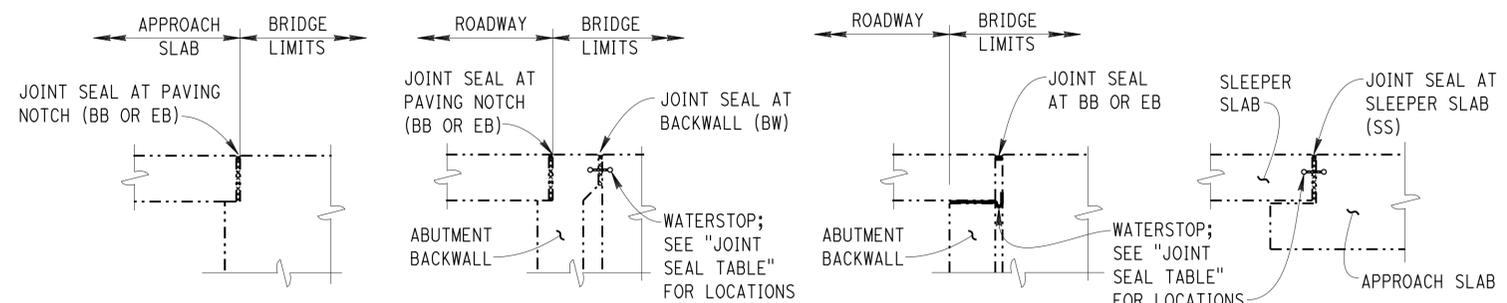
LEGEND:
 BB = BEGINNING OF BRIDGE
 EB = END OF BRIDGE
 SS = SLEEPER SLAB

- 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 RSP
B6-21



BARRIER RAIL **SIDEWALK OR CURB**
JOINT SEAL AT LOW SIDE OF DECK

DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY. FOR USE ONLY WHERE DECK JOINT MATCHES THE BARRIER RAIL
 NO SCALE



DIAPHRAGM ABUTMENT **ABUTMENT WITH BACKWALL** **SLEEPER SLAB**

JOINT SEAL LOCATION

NO SCALE

ROUTES 85, 87, 101, 237, 280, 680 & 880 BRIDGES

TREAT DECK & REPLACE JOINT SEALS

JOINT SEAL DETAILS