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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SAN MATEO COUNTY AND
IN THE CITY AND COUNTY OF SAN FRANCISCO
AT VARIOUS LOCATIONS

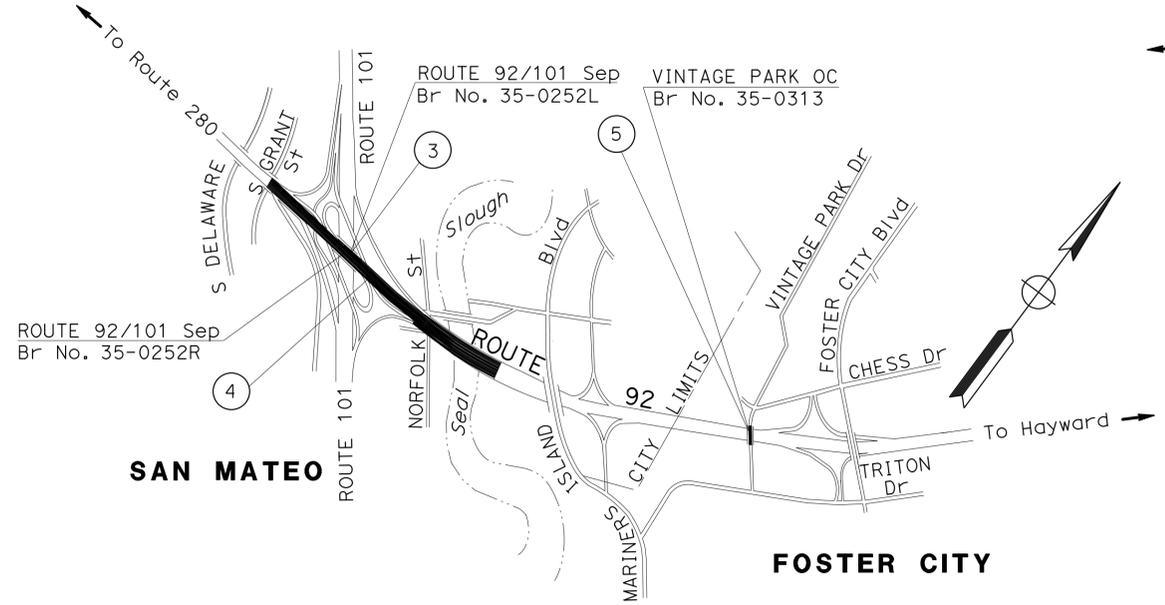
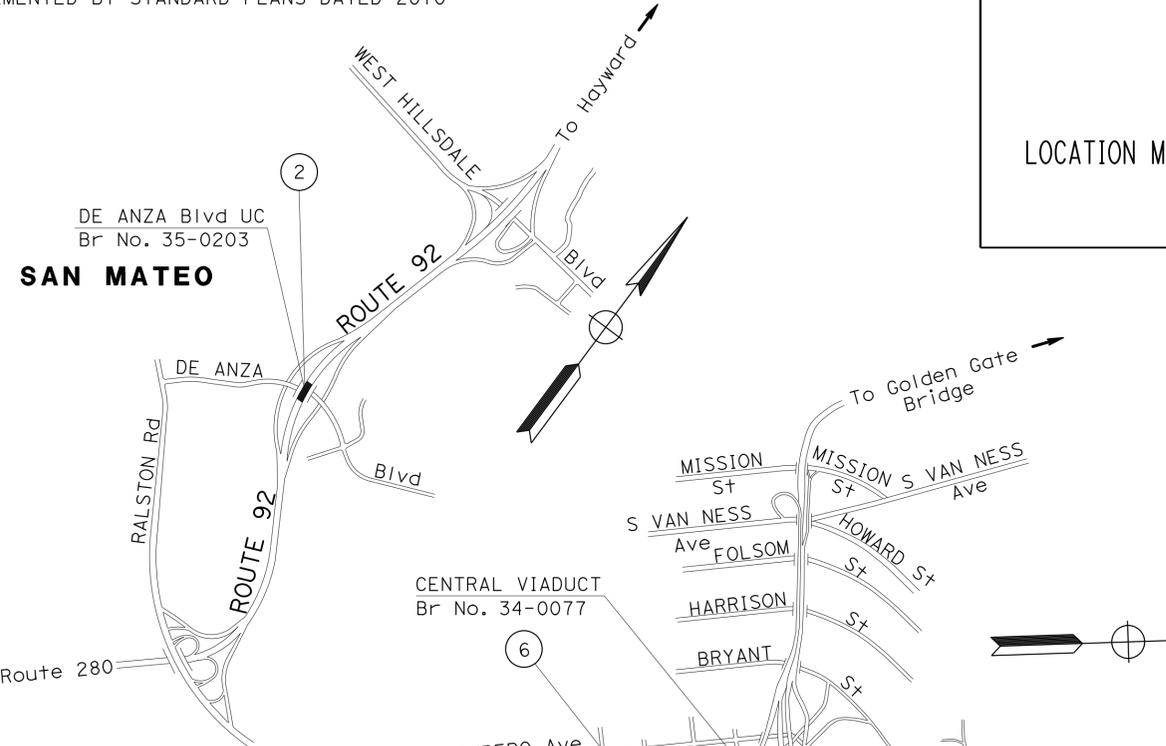
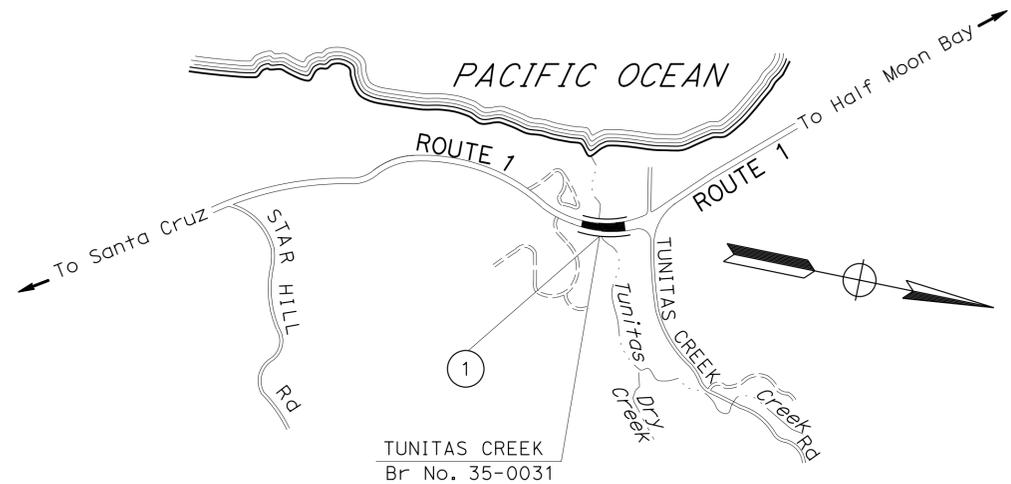
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	1	41



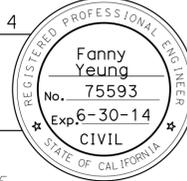


LOCATION MAP



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

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


 PROJECT ENGINEER REGISTERED CIVIL ENGINEER
 DATE 1/3/14
 March 17, 2014
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	04-3E4704
PROJECT ID	0412000364

PROJECT MANAGER
RAMSES SARGISS
 DESIGN MANAGER
NGOC TRAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED/DESIGNED BY
 CHECKED BY

FANNY YEUNG
 NGOC TRAN

REVISED BY
 DATE REVISED

FY
 1/3/14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	2	41

Fanny Yeung 1/3/14
 REGISTERED CIVIL ENGINEER DATE

3-17-14
 PLANS APPROVAL DATE



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

LOCATIONS OF CONSTRUCTION

LOCATION	COUNTY	ROUTE	PM	BRIDGE No.	BRIDGE NAME
①	SM	1	20.82	35-0031	TUNITAS CREEK
②	SM	92	R8.67	35-0203	DE ANZA Blvd UC
③	SM	92	R11.78	35-0252L	ROUTE 92/101 SEPARATION
④	SM	92	R11.78	35-0252R	ROUTE 92/101 SEPARATION
⑤	SM	92	R13.25	35-0313	VINTAGE PARK OC
⑥	SF	101	R4.25	34-0077	CENTRAL VIADUCT
⑦	SF	280	R6.66	34-0105	MARIPOSA St RR SEPARATION/ ROUTE 280 SB ON-RAMP

LOCATIONS OF CONSTRUCTION

LC-1

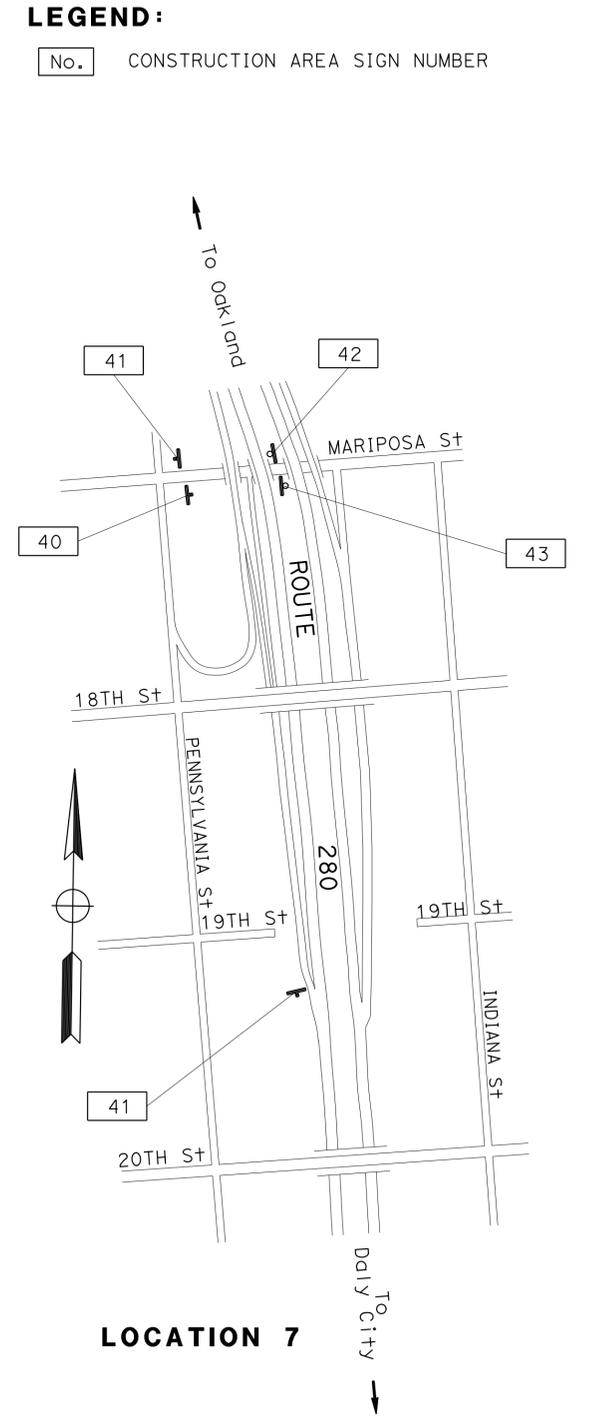
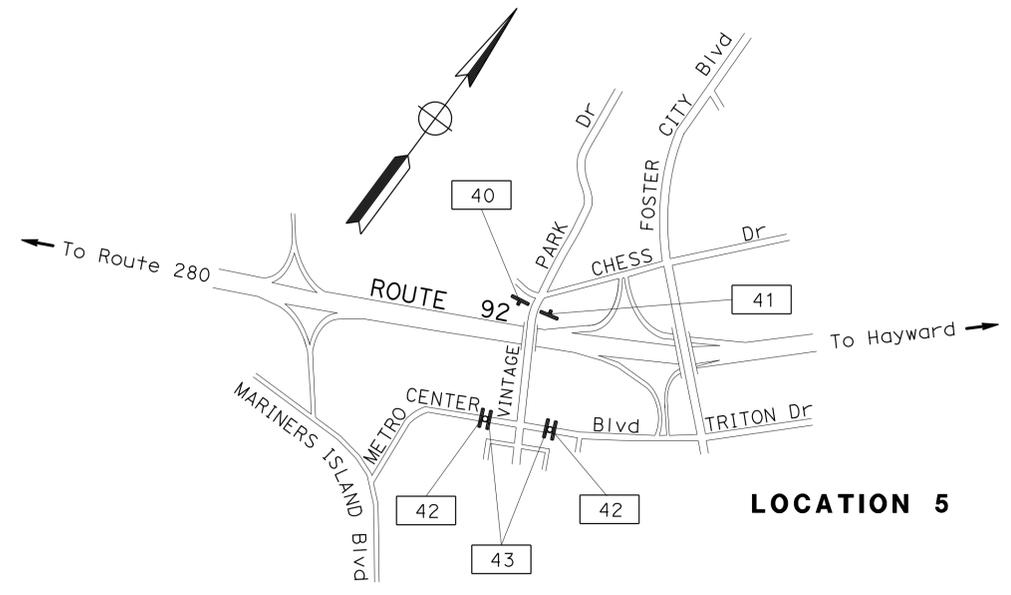
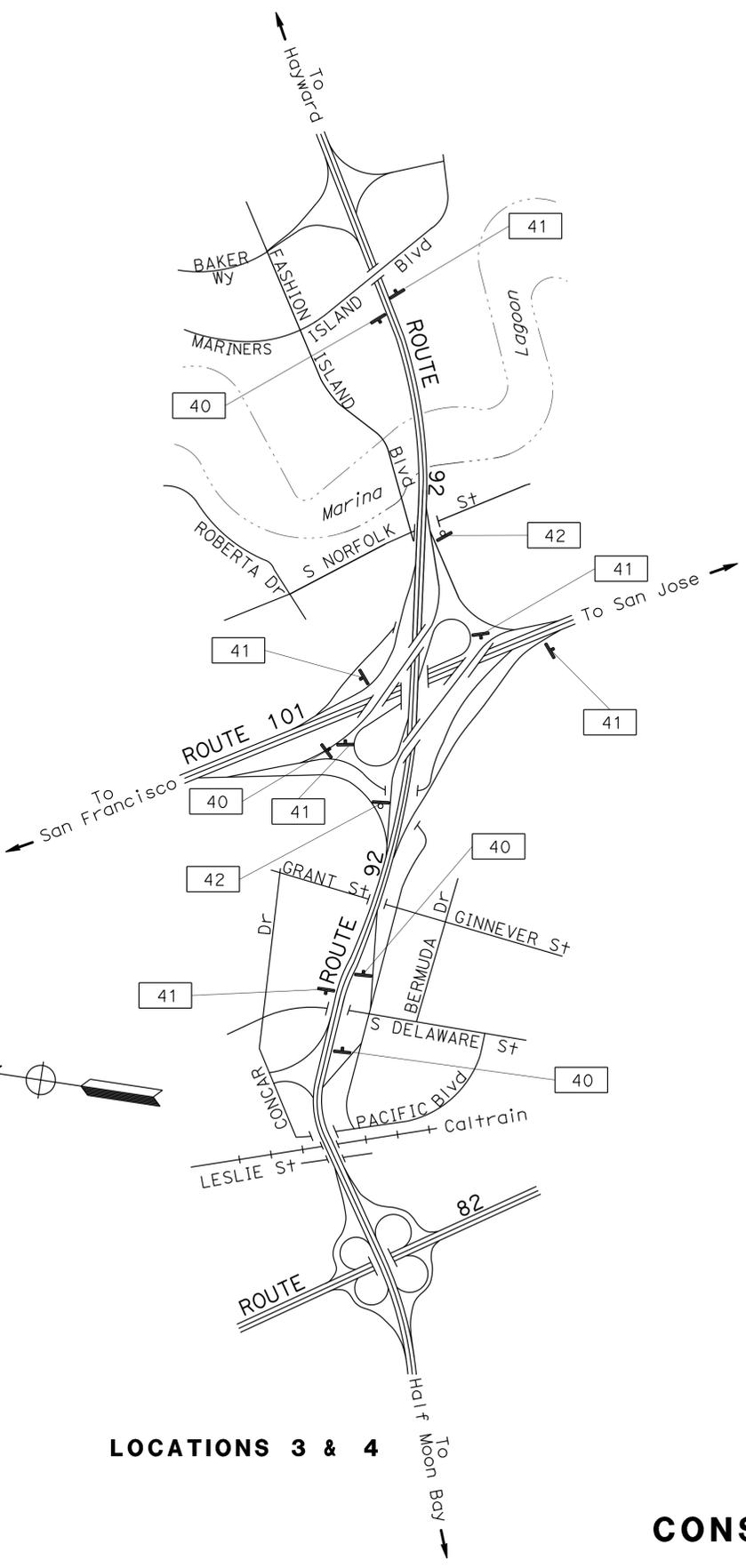
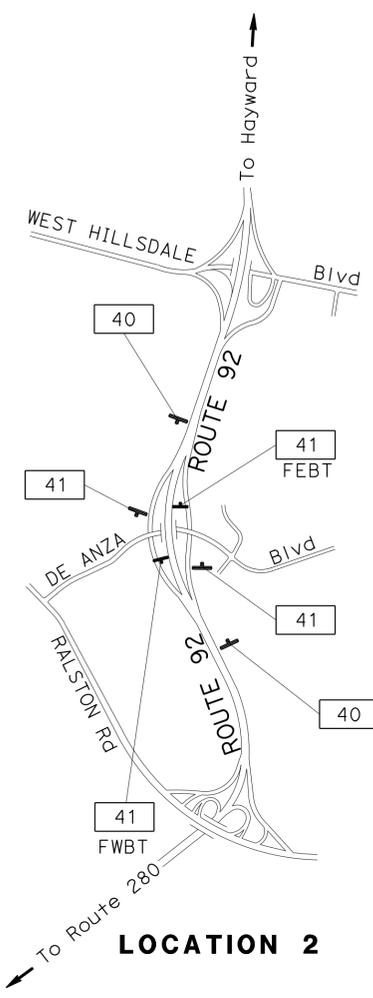
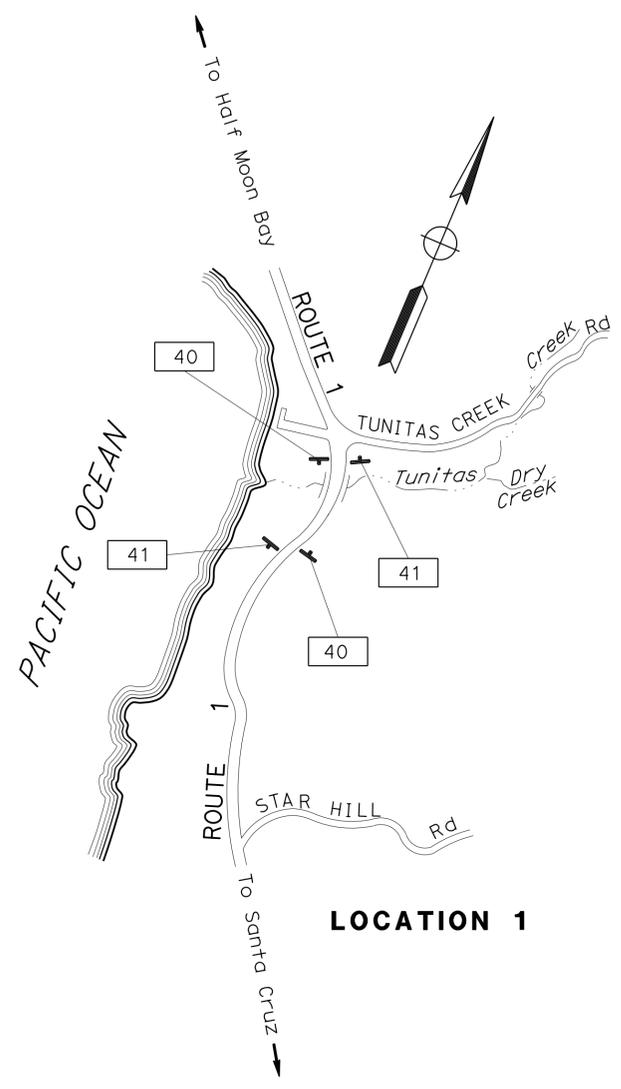


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: JERILYN STRUVEN
 CHECKED BY: JERILYN STRUVEN
 REVISED BY: JS
 DATE REVISED: 12/18/13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	3	41

REGISTERED CIVIL ENGINEER: Jerilyn L. Struven
 No. 49964
 Exp. 2-31-14
 CIVIL
 DATE: 12/18/13
 PLANS APPROVAL DATE: 3-17-14
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:
 1. LOCATION OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.

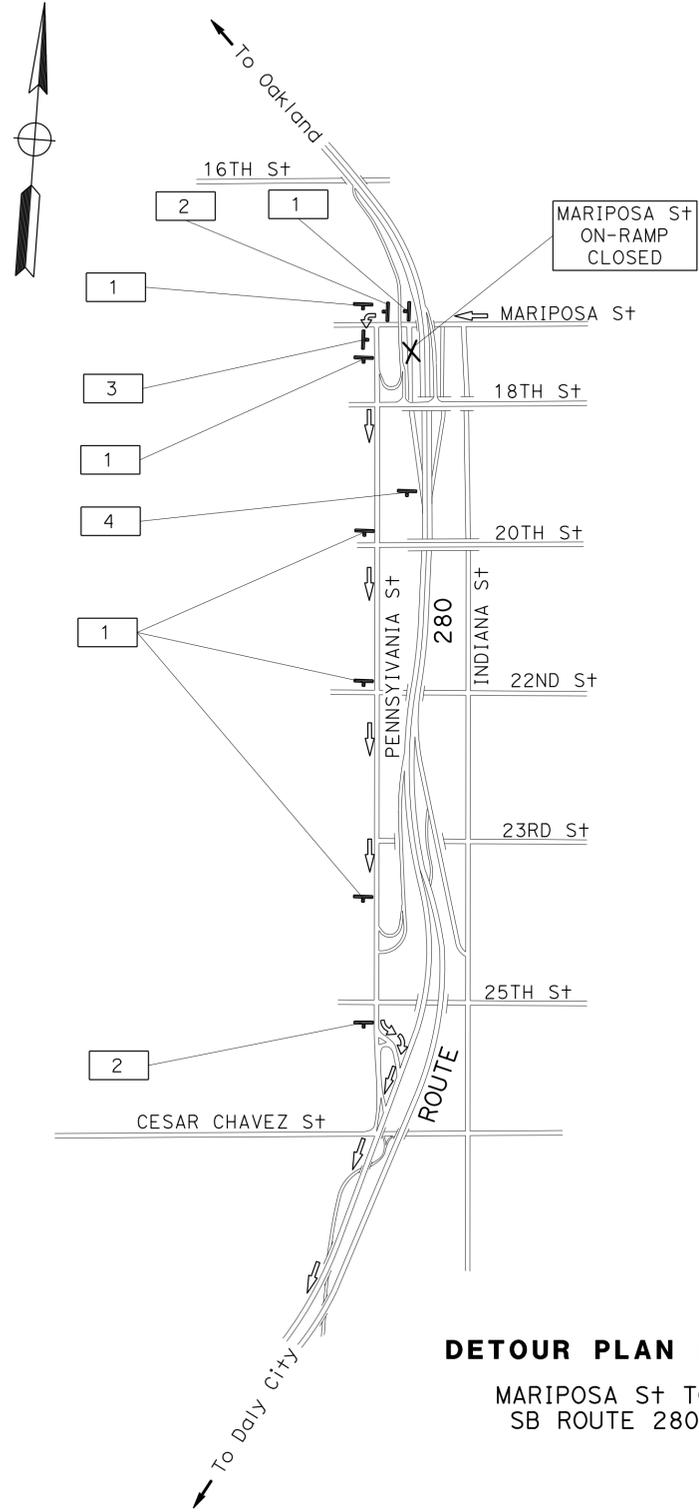


LEGEND:
 [No.] CONSTRUCTION AREA SIGN NUMBER

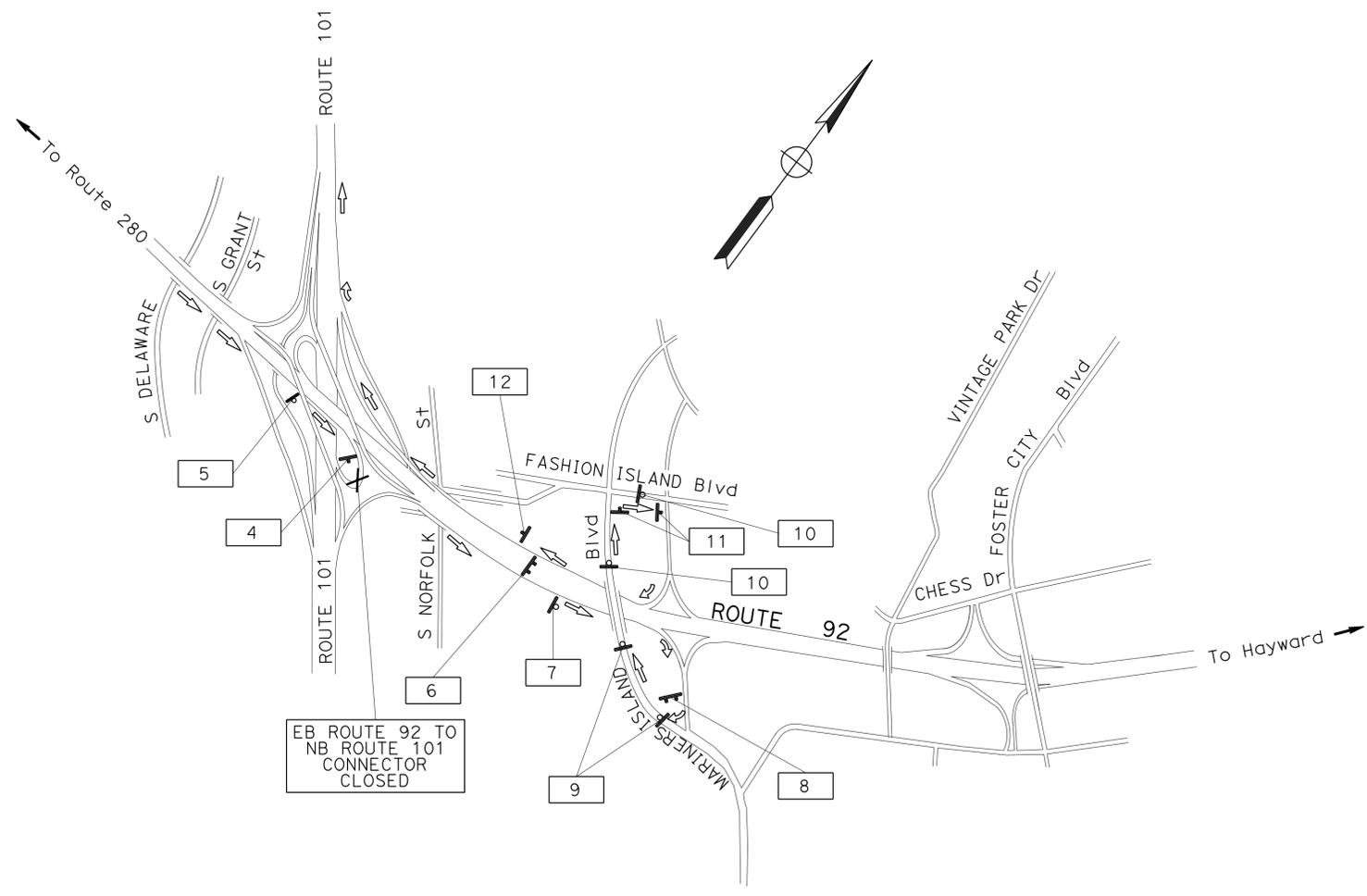
CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	4	41
		<i>Jerilyn L. Struven</i> 12/18/13 REGISTERED CIVIL ENGINEER DATE		REGISTERED PROFESSIONAL ENGINEER No. 49964 Exp. 2-31-14 CIVIL STATE OF CALIFORNIA	
3-17-14 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>					



DETOUR PLAN No. 1
 MARIPOSA St TO
 SB ROUTE 280



DETOUR PLAN No. 2
 EB ROUTE 92
 TO NB ROUTE 101

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: JERILYN STRUVEN
 CHECKED BY: JERILYN STRUVEN
 REVISED BY: ULICES F. VEGA
 DATE REVISED: 12/18/13
 JS
 12/18/13

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

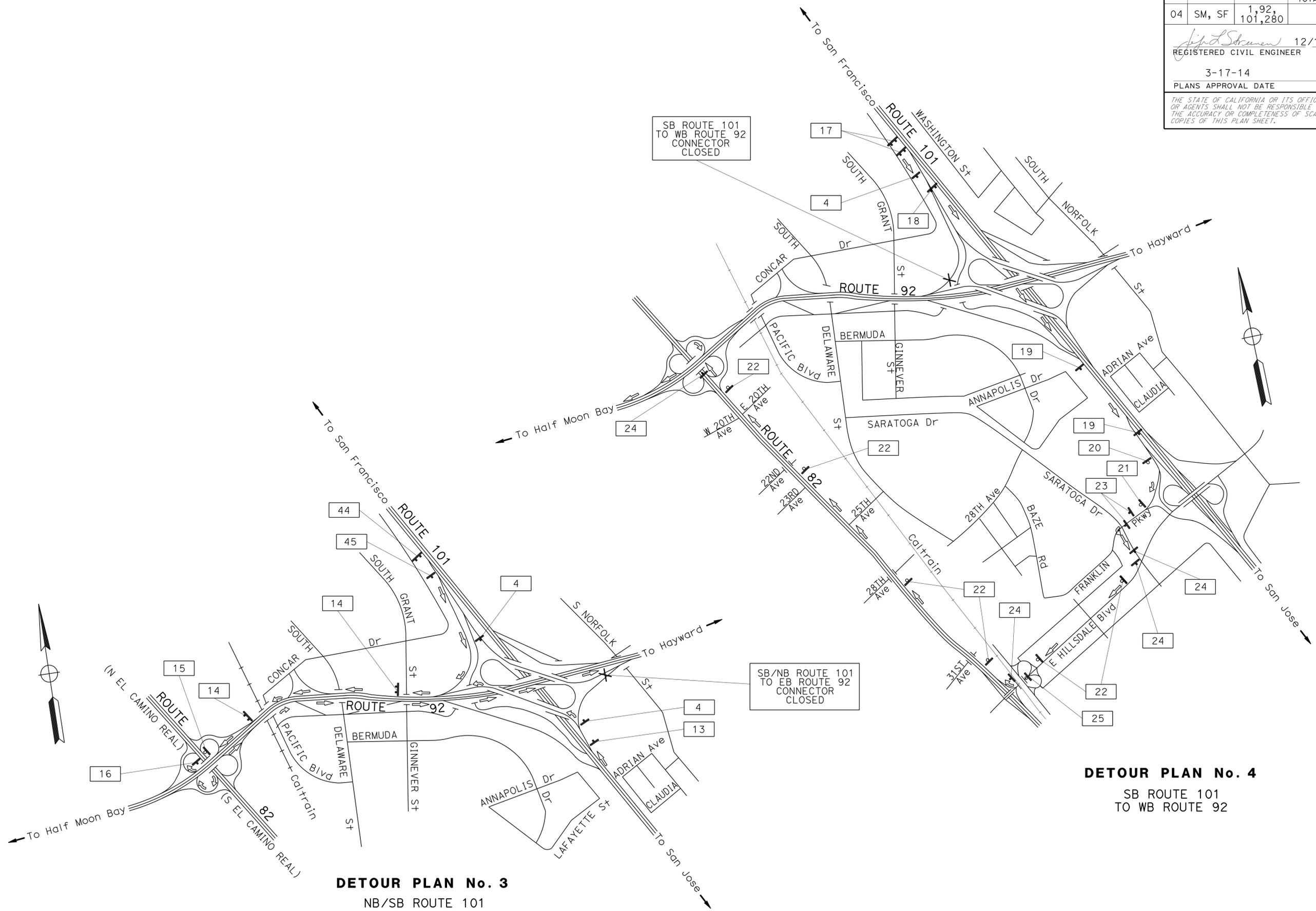
FOR NOTE AND LEGEND,
 SEE SHEET CS-1

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	5	41
		<i>Jerilyn L. Struven</i> 12/18/13 REGISTERED CIVIL ENGINEER DATE		REGISTERED PROFESSIONAL ENGINEER No. 49964 Exp. 2-31-14 CIVIL STATE OF CALIFORNIA	
3-17-14 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	REVISOR	DATE
Caltrans	ROLAND AU-YEUNG	ULICES F. VEGA	12/18/13
	TRAFFIC	JERILYN STRUVEN	JS
	CHECKED BY	DESIGNED BY	



DETOUR PLAN No. 3
 NB/SB ROUTE 101
 TO EB ROUTE 92

DETOUR PLAN No. 4
 SB/NB ROUTE 101
 TO WB ROUTE 92

CONSTRUCTION AREA SIGNS
 NO SCALE

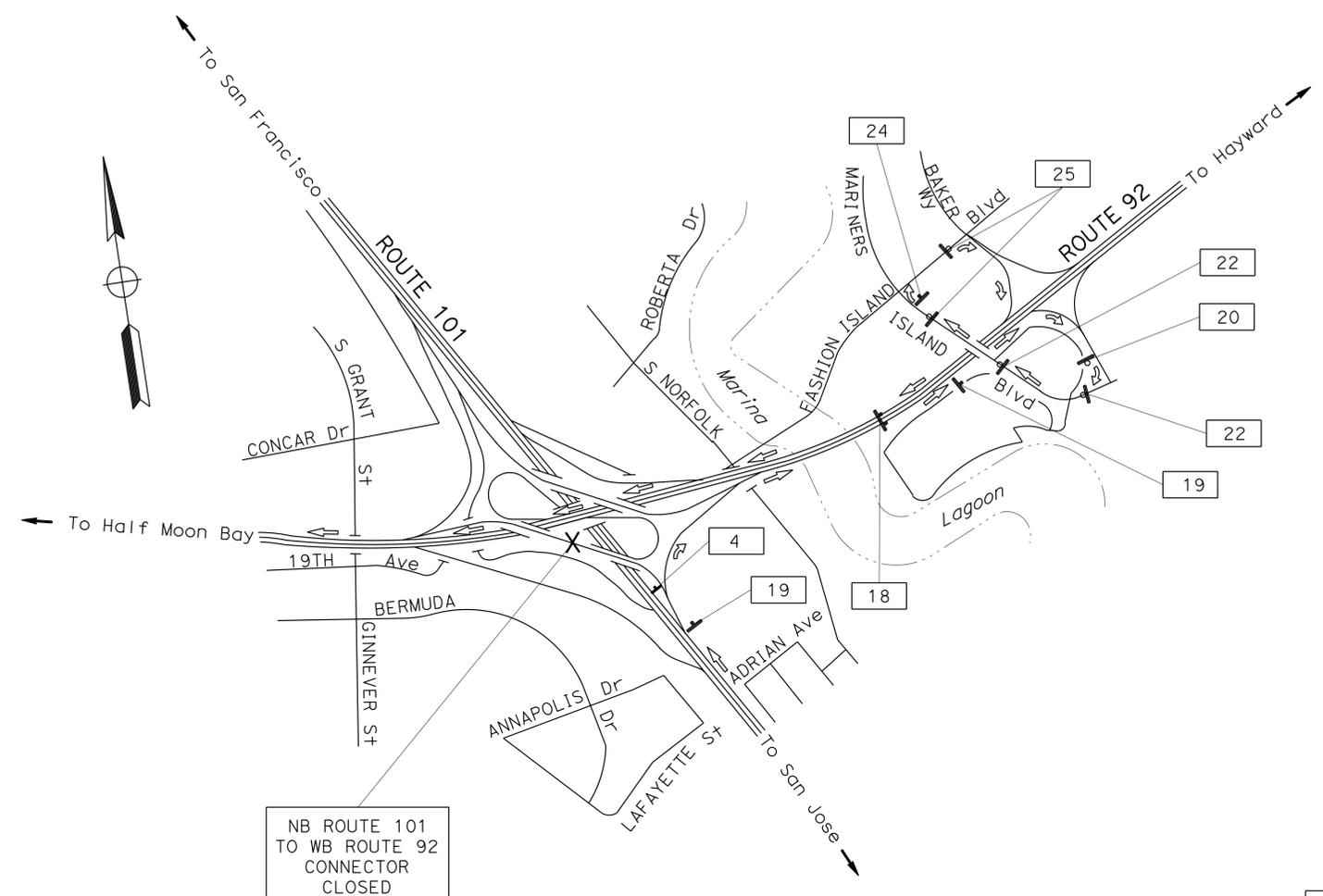
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTE AND LEGEND,
 SEE SHEET CS-1

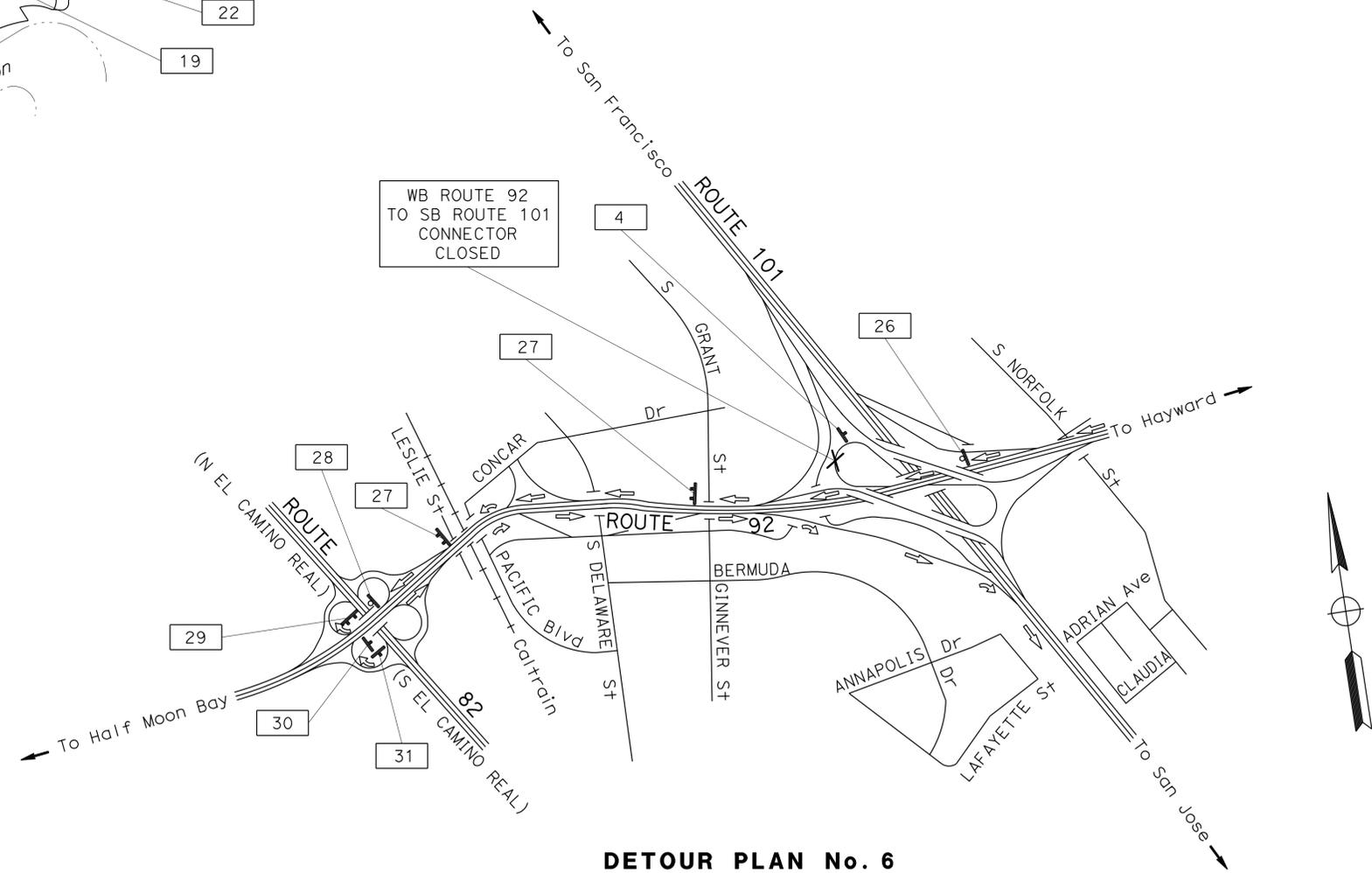
CS-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	6	41
<i>Jerilyn L. Struven</i> 12/18/13 REGISTERED CIVIL ENGINEER DATE			No. 49964 Exp. 2-31-14 CIVIL		
3-17-14 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
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: JERILYN STRUVEN
 CHECKED BY: JERILYN STRUVEN
 REVISED BY: JS
 DATE REVISED: 12/18/13
 TRAFFIC



DETOUR PLAN No. 5
 NB ROUTE 101
 TO WB ROUTE 92



DETOUR PLAN No. 6
 WB ROUTE 92
 TO SB ROUTE 101

CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

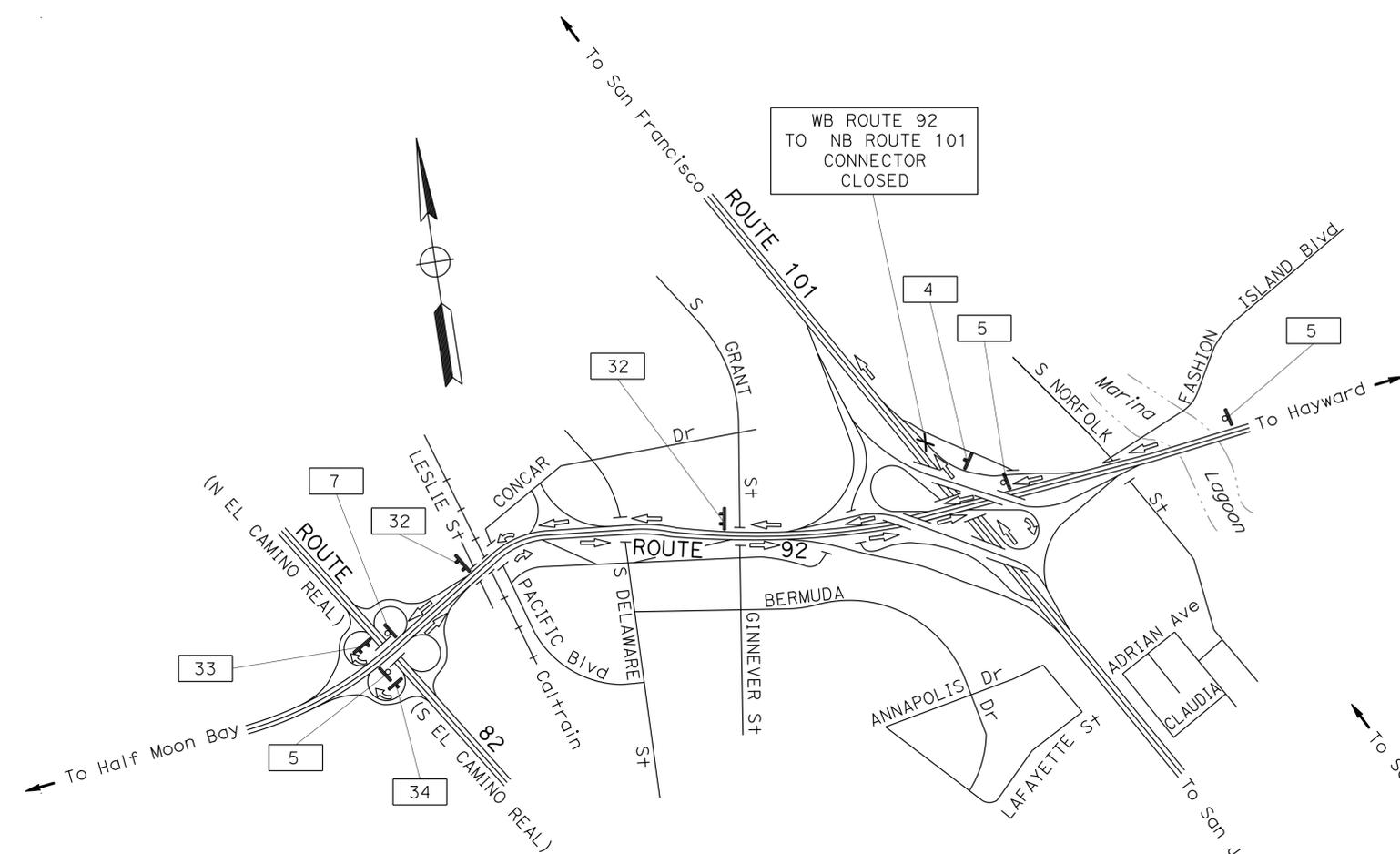
FOR NOTE AND LEGEND,
 SEE SHEET CS-1

CS-4

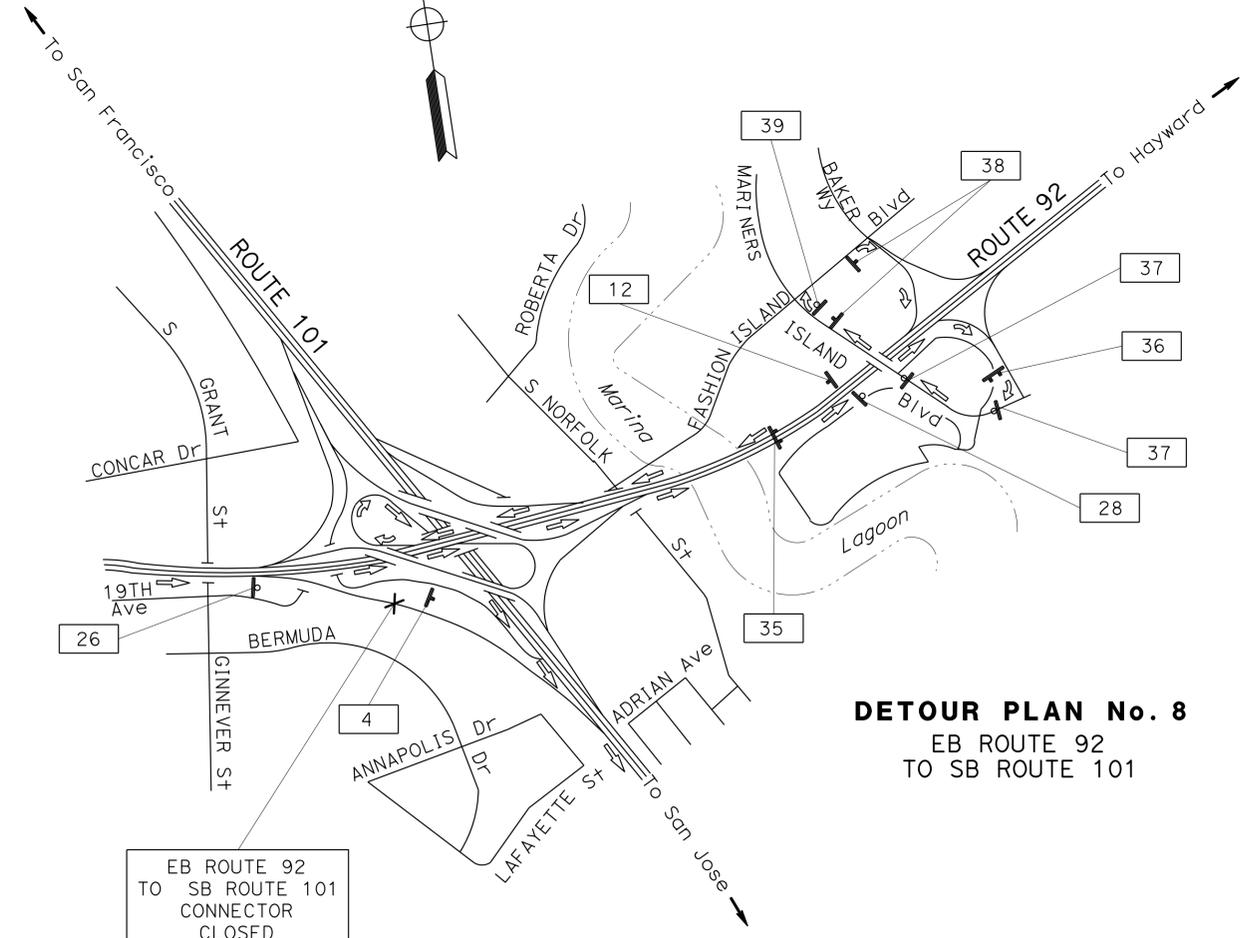
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	7	41
		<i>Jerilyn L. Struven</i> 12/18/13 REGISTERED CIVIL ENGINEER DATE		REGISTERED PROFESSIONAL ENGINEER No. 49964 Exp. 2-31-14 CIVIL STATE OF CALIFORNIA	
		3-17-14		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
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 TRAFFIC
 DESIGNED BY: ULICES F. VEGA
 CHECKED BY: JERILYN STRUVEN
 REVISIONS: JS 12/18/13



DETOUR PLAN No. 7
 WB ROUTE 92
 TO NB ROUTE 101



DETOUR PLAN No. 8
 EB ROUTE 92
 TO SB ROUTE 101

CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTE AND LEGEND, SEE SHEET CS-1

CS-5

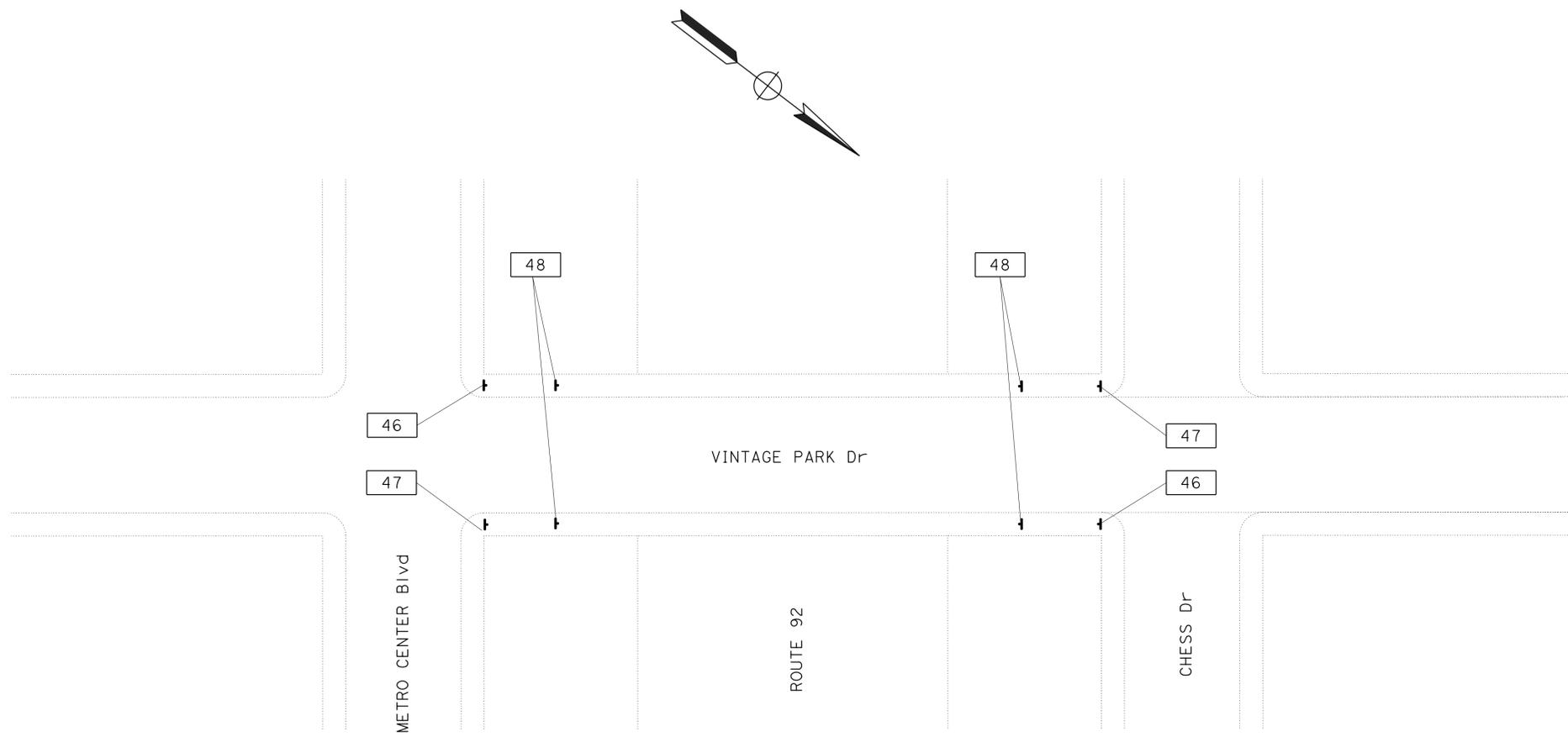
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY
 CHECKED BY
 ULICES F. VEGA
 JERILYN STRUVEN
 REVISED BY
 DATE REVISED
 JS
 12/18/13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	8	41

Jerilyn L. Struven 12/18/13
 REGISTERED CIVIL ENGINEER DATE
 3-17-14
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Jerilyn L. Struven
 No. 49964
 Exp. 2-31-14
 CIVIL
 STATE OF CALIFORNIA



SIDEWALK CLOSURE
 (ONE SIDE OPEN AT ALL TIMES)

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-6

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

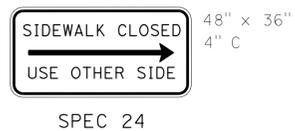
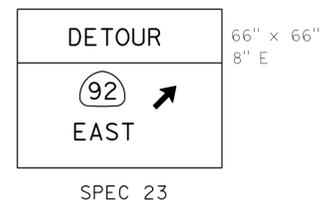
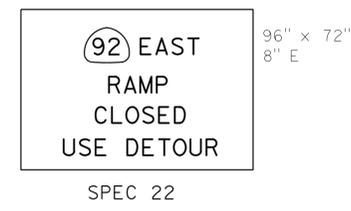
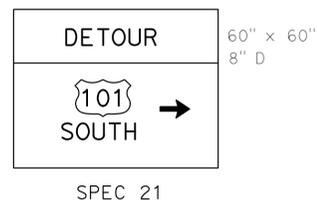
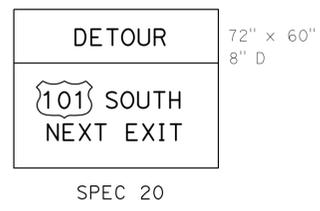
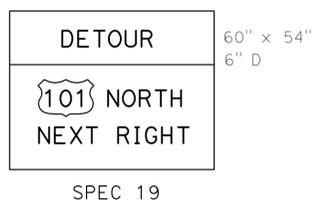
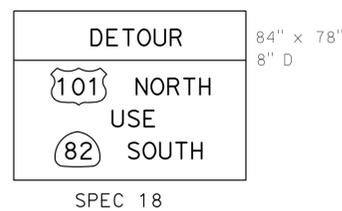
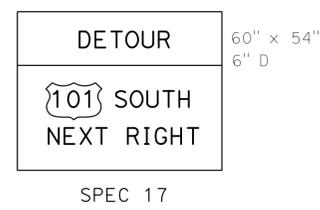
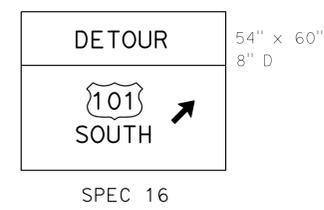
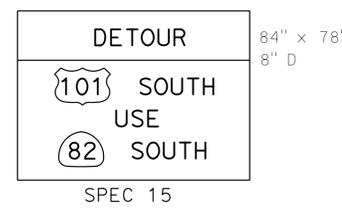
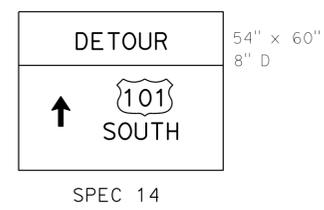
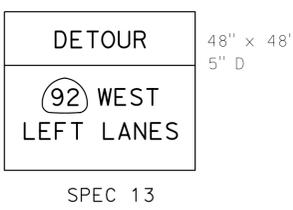
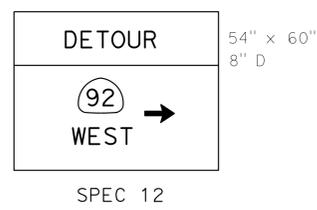
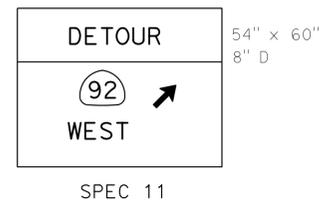
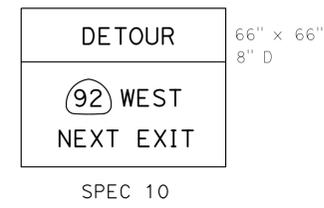
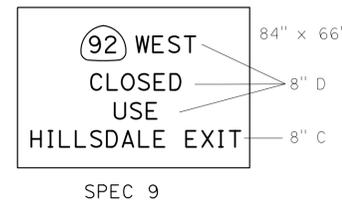
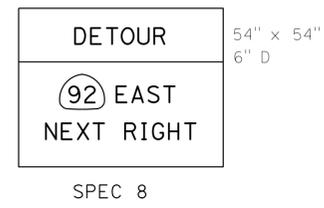
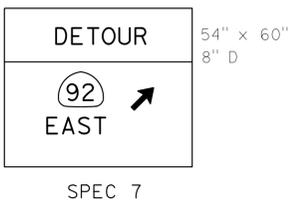
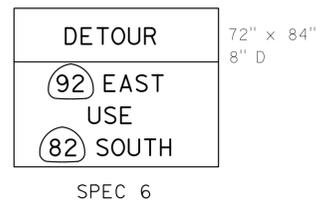
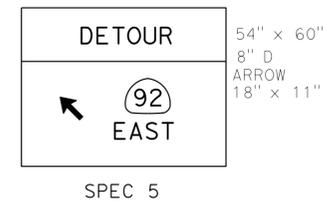
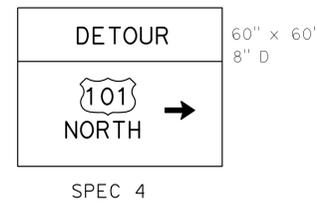
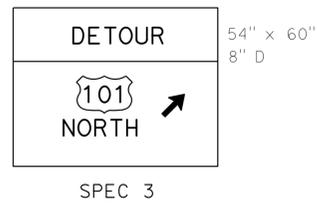
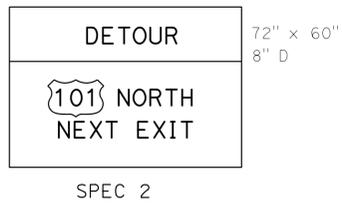
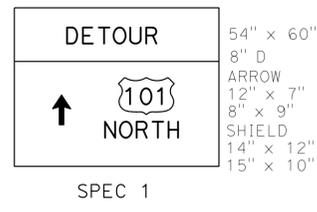
FOR NOTE AND LEGEND,
 SEE SHEET CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	9	41

Jerilyn L. Struven 12/18/13
 REGISTERED CIVIL ENGINEER DATE
 3-17-14
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
 Jerilyn L. Struven
 No. 49964
 Exp. 2-31-14
 CIVIL
 STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 REVISIONS: ULICES F. VEGA, JERILYN STRUVEN
 REVISIONS: JS, 12/18/13
 CALCULATED/DESIGNED BY: JERILYN STRUVEN
 CHECKED BY:

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTE AND LEGEND, SEE SHEET CS-1

CONSTRUCTION AREA SIGNS
NO SCALE

CS-7

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	10	41

12/18/13
 REGISTERED CIVIL ENGINEER DATE
 3-17-14
 PLANS APPROVAL DATE

Jerilyn L. Struven
 No. 49964
 Exp. 2-31-14
 CIVIL

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	CODE	PANEL SIZE	SIGN MESSAGE	No. OF SIGNS	POST SIZE	REMARKS
1	SC3 (CA)	48" x 18"	DETOUR	6	1 - 4" x 6"	
	G27-2	30" x 25"	280			
	M3-3	30" x 15"	SOUTH			
2	M4-10L	48" x 18"	DETOUR	2	1 - 4" x 6"	
	G27-2	30" x 25"	280			
	M3-3	30" x 15"	SOUTH			
3	M4-10R	48" x 18"	DETOUR	1	1 - 4" x 6"	
	G27-2	30" x 25"	280			
	M3-3	30" x 15"	SOUTH			
4	SC6-4 (CA)	48" x 60"	ROAD (RAMP)-CLOSED-(DATES)	9	1 - 6" x 6"	
5	SPEC 1	54" x 60"	DETOUR-101-NORTH	4		SSBM
6	SPEC 2	72" x 60"	DETOUR-101 NORTH-NEXT EXIT	1	2 - 6" x 6"	
7	SPEC 3	54" x 60"	DETOUR-101-NORTH	2		SSBM
8	SPEC 4	60" x 60"	DETOUR-101-NORTH	1	2 - 4" x 6"	
9	SC3 (CA)	48" x 18"	DETOUR	2		SSBM
	G26-2	28" x 24"	101			SSBM
	M3-1	30" x 15"	NORTH			SSBM
10	M4-10R	48" x 18"	DETOUR	2		SSBM
	G26-2	28" x 24"	101			SSBM
	M3-1	30" x 15"	NORTH			SSBM
11	M4-10R	48" x 18"	DETOUR	2	1 - 4" x 6"	
	G26-2	28" x 24"	101			
	M3-1	30" x 15"	NORTH			
12	M4-8A	24" x 18"	END DETOUR	2	1 - 4" x 4"	
13	SPEC 5	54" x 60"	DETOUR-92-EAST	1	1 - 6" x 6"	
14	SPEC 6	72" x 84"	DETOUR-92 EAST-USE-82 SOUTH	2	2 - 6" x 8"	
15	SPEC 7	54" x 60"	DETOUR-92-EAST	1		SSBM
16	SPEC 8	54" x 54"	DETOUR-92 EAST-NEXT RIGHT	1	1 - 6" x 6"	
17	SPEC 9	84" x 48"	92 WEST-CLOSED USE-HILLSDALE EXIT	2	2 - 6" x 6"	
18	SPEC 10	66" x 66"	DETOUR-92 WEST-NEXT EXIT	2	2 - 6" x 6"	
19	SPEC 11	54" x 60"	DETOUR -92-WEST	4	1 - 6" x 6"	
20	SPEC 12	54" x 60"	DETOUR -92-WEST	2		SSBM
21	SPEC 13	48" x 48"	DETOUR -92 WEST-LEFT LANES	1		SSBM
22	SC3 (CA)	48" x 18"	DETOUR	8		SSBM
	G28-2	24" x 25"	92			SSBM
	M3-4	30" x 15"	WEST			SSBM
23	M4-10L	48" x 18"	DETOUR	2	1 - 4" x 6"	
	G28-2	24" x 25"	92			
	M3-4	30" x 15"	WEST			
24	M4-10R	48" x 18"	DETOUR	5	1 - 4" x 6"	
	G28-2	24" x 25"	92			
	M3-4	30" x 15"	WEST			
25	M4-10R	48" x 18"	DETOUR	3		SSBM
	G28-2	24" x 25"	92			SSBM
	M3-4	30" x 15"	WEST			SSBM
26	SPEC 14	54" x 60"	DETOUR-101-SOUTH	2		SSBM
27	SPEC 15	84" x 78"	DETOUR-101 SOUTH-USE-92 SOUTH	2	2 - 6" x 8"	
28	SPEC 16	54" x 60"	DETOUR-101-SOUTH	2		SSBM
29	SPEC 17	60" x 54"	DETOUR-101 SOUTH-NEXT RIGHT	1	2 - 4" x 6"	
30	SPEC 14	54" x 60"	DETOUR-101-SOUTH	1	1 - 6" x 6"	
31	SPEC 16	54" x 60"	DETOUR-101-SOUTH	1	1 - 6" x 6"	
32	SPEC 18	84" x 78"	DETOUR-101 NORTH-USE-82 SOUTH	2	2 - 6" x 8"	
33	SPEC 19	60" x 54"	DETOUR-101 NORTH-NEXT RIGHT	1	2 - 4" x 6"	
34	SPEC 3	54" x 60"	DETOUR-101-NORTH	1	1 - 6" x 6"	
35	SPEC 20	72" x 60"	DETOUR-101 SOUTH-NEXT EXIT	1	2 - 6" x 6"	
36	SPEC 21	60" x 60"	DETOUR-101-SOUTH	1	2 - 4" x 6"	

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	CODE	PANEL SIZE	SIGN MESSAGE	No. OF SIGNS	POST SIZE	REMARKS
37	SC3 (CA)	48" x 18"	DETOUR	2		SSBM
	G26-2	28" x 24"	101			SSBM
	M3-3	30" x 15"	SOUTH			SSBM
38	M4-10R	48" x 18"	DETOUR	2	1 - 4" x 6"	
	G26-2	28" x 24"	101			
	M3-3	30" x 15"	SOUTH			
39	M4-10R	48" x 18"	DETOUR	1		SSBM
	G26-2	28" x 24"	101			SSBM
	M3-3	30" x 15"	SOUTH			SSBM
40	W20-1	48" x 48"	ROAD WORK AHEAD	10	1 - 6" x 6"	
41	G20-2	36" x 18"	END ROAD WORK	15	1 - 4" x 4"	
42	W20-1	48" x 48"	ROAD WORK AHEAD	5		SSBM
43	G20-2	36" x 18"	END ROAD WORK	3		SSBM
44	SPEC 22	96" x 72"	92 EAST-RAMP-CLOSED	1	2 - 6" x 8"	
45	SPEC 23	66" x 66"	DETOUR-92-EAST	1	1 - 6" x 6"	

PORTABLE CONSTRUCTION AREA SIGNS

SIGN No.	CODE	PANEL SIZE	SIGN MESSAGE	No. OF SIGNS
46	SPEC 24	48" x 36"	SIDEWALK CLOSED-USED	2
47	SPEC 25	48" x 36"	SIDEWALK CLOSED-USED	2
48	R9-3a	30" x 30"	(NO PEDESTRIAN CROSSING)	4

CONSTRUCTION AREA SIGNS

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-8

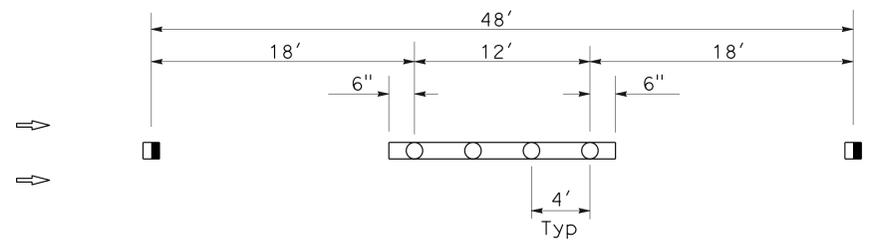
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	11	41

Fanny Yeung
 REGISTERED CIVIL ENGINEER DATE 1/3/14
 3-17-14
 PLANS APPROVAL DATE

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

- NOTES:**
- INSTALL 4" WHITE AFTER INSTALLING PAVEMENT MARKERS.
 - ALL EXISTING PAVEMENT DELINEATION SHALL BE REMOVED AND REPLACED AT THE SAME LOCATIONS AS EXISTING.

- LEGEND:**
- TYPE A WHITE NON-REFLECTIVE MARKER
 - TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
 - ▭ 4" WHITE



**DETAIL 13M
PAVEMENT DELINEATION DETAIL**

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION	BRIDGE NAME	BRIDGE No.	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKER					REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC TRAFFIC STRIPE			
				4" WHITE			NON-REFLECTIVE		RETROREFLECTIVE				WHITE	YELLOW		
				BROKEN 35-13	BROKEN 17-7	4" WHITE	4" YELLOW	8" WHITE BROKEN 12-3	TYPE A	TYPE C	TYPE D				TYPE G	TYPE H
				LF			EA						EA	LF		
1	TUNITAS CREEK	35-0031	22			850	850				38		38	850	850	
			27B			850										
2	DE ANZA Blvd UC	35-0203	13M	272					24			8		32	74	
			25				272						8		8	272
3	ROUTE 92/101 SEPARATION	35-0252L	9		85							3		3	25	
			13M	85				8				3		11	24	
			25			85	85									85
			27B			85										85
			37					85		8		8		16	3	
SUBTOTAL				357	85	1207	1207	85	32	8	38	22	8	108	1333	1207
TOTAL				357	85	2414		85	40		68			108	1333	1207

**PAVEMENT DELINEATION
QUANTITIES**

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 FANNY YEUNG
 NGOC TRAN
 REVISOR BY
 DATE
 1/3/14

LAST REVISION DATE PLOTTED => 20-MAR-2014
 01-08-14 TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	12	41

Kenneth Y. Xu 11/22/13
 REGISTERED ELECTRICAL ENGINEER DATE

3-17-14
 PLANS APPROVAL DATE

Kenneth Y. Xu
 No. 15219
 Exp. 6-30-14
 ELECT

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ELECTRICAL INDEX

- E-1 ELECTRICAL INDEX AND NOTES
- E-2 INDUCTIVE LOOP DETECTOR
- E-3 ELECTRICAL DETAILS
- E-4 ELECTRICAL QUANTITIES

GENERAL NOTES:

1. ABANDON EXISTING LOOPS IN PLACE WHEN CUTTING NEW REPLACEMENT LOOPS. SPLICE NEW DETECTOR CONDUCTORS TO CORRESPONDING DLC IN TERMINATION PULL BOX. VERIFY IDENTIFICATION OF DLC BEFORE CONNECTING TO THE CORRESPONDING LOOP DETECTORS.
2. VERIFY THE LOCATION OF THE LOOP DETECTORS TO BE REPLACED PRIOR TO REPAVING.
3. PROVIDE TWO REPORTS PER LOCATION ON THE STATUS OF EACH DETECTOR LOOP REPLACEMENT SHOWING CONTINUITY AND INSULATION RESISTANCE READINGS. THE REPORTS MUST BE SUBMITTED TO THE ENGINEER, ONE BEFORE STARTING WORK AND THE OTHER AFTER WORK HAS BEEN COMPLETED AT EACH LOCATION.

PROJECT NOTE:

- 1 INSTALL INDUCTIVE LOOP DETECTOR. USING LOOP WIRE IN BRIDGE DECK DETAIL.

ELECTRICAL INDEX AND NOTES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	13	41

Kenneth Y. Xu 11/22/13
 REGISTERED ELECTRICAL ENGINEER DATE
 3-17-14
 PLANS APPROVAL DATE

Kenneth Y. Xu
 No. 15219
 Exp. 6-30-14
 ELECT

THE STATE OF CALIFORNIA OR ITS OFFICERS
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REVISOR

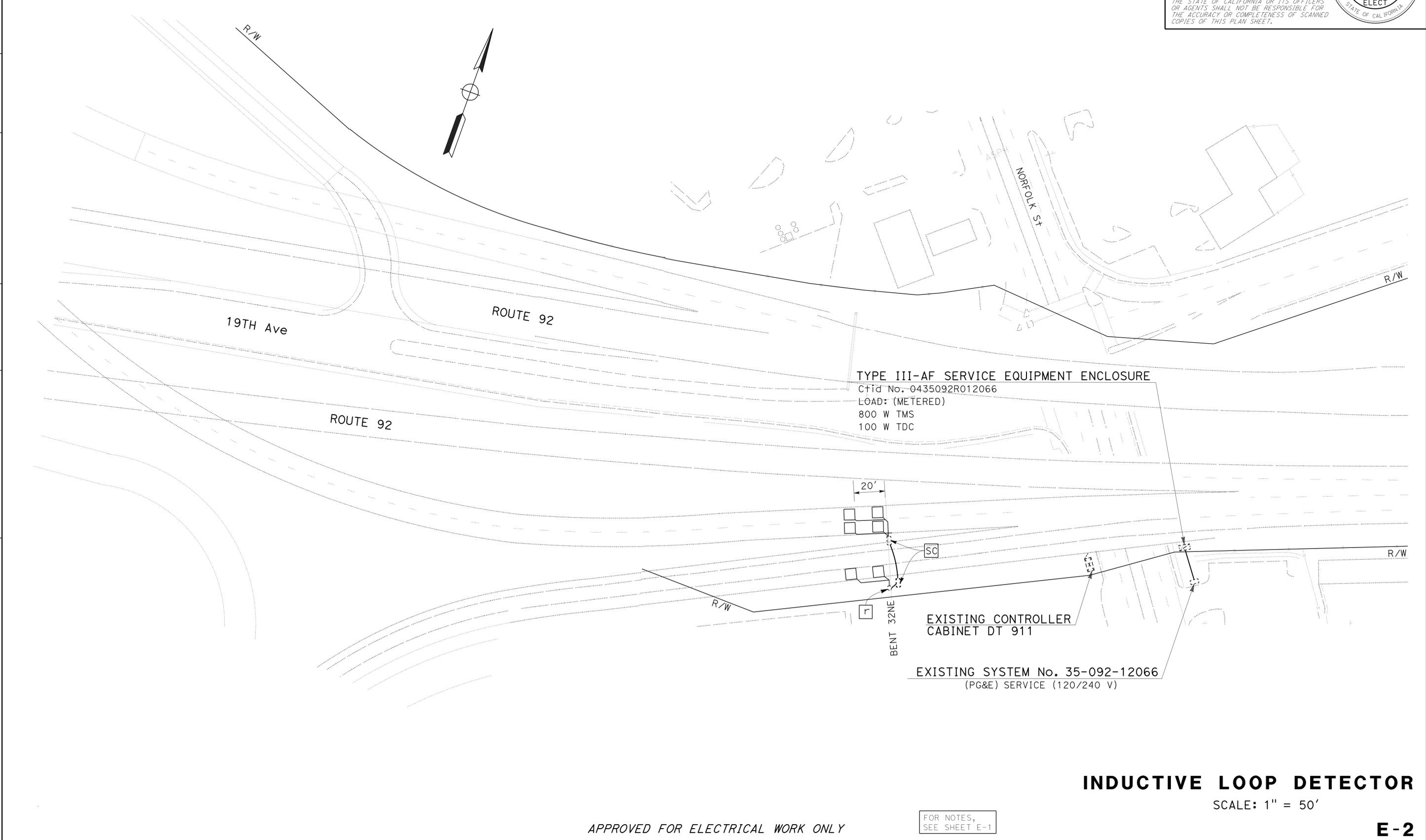
REVISOR	REVISION
KX	11/22/13

DESIGNER

DESIGNER	DATE
R.M. TAITANO LOUGHRAN	11/22/13

CHECKER

CHECKER	DATE
KENNETH Y XU	11/22/13



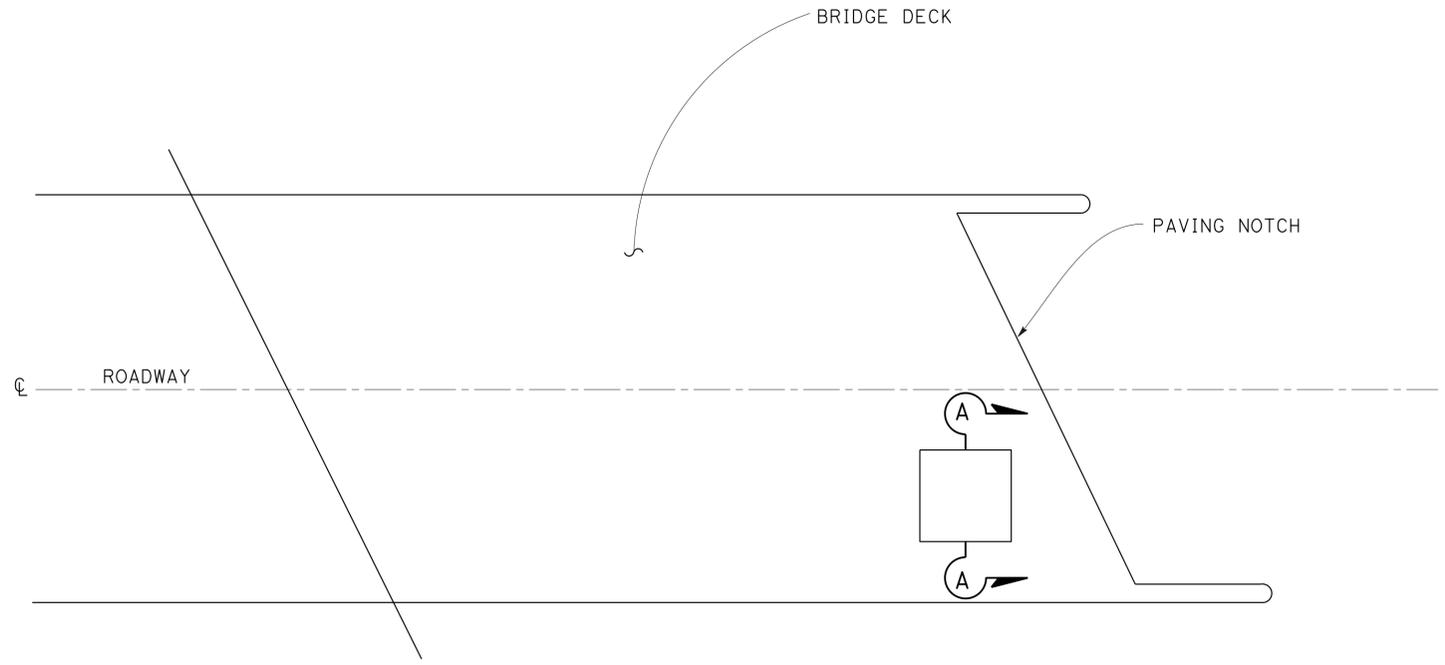
INDUCTIVE LOOP DETECTOR
 SCALE: 1" = 50'
E-2

APPROVED FOR ELECTRICAL WORK ONLY

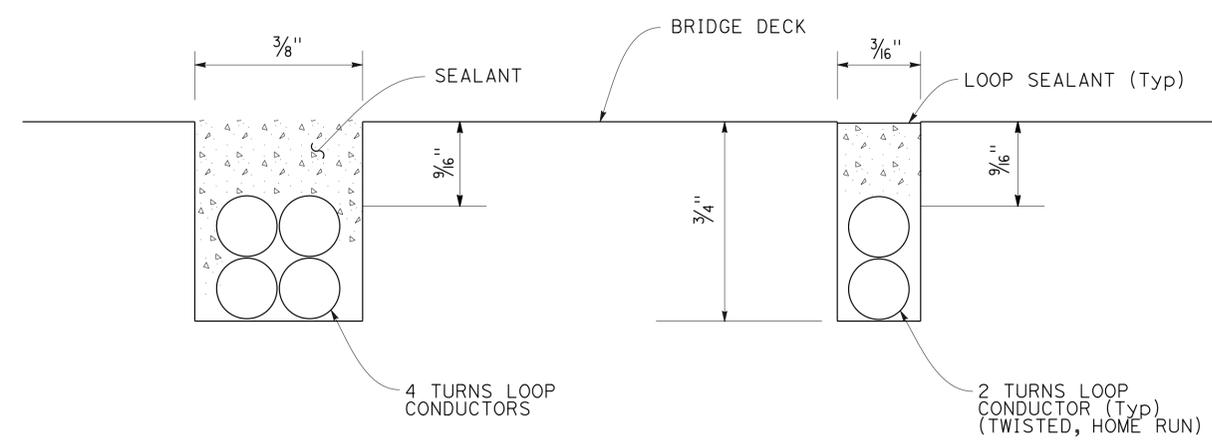
FOR NOTES,
 SEE SHEET E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans ELECTRICAL	FUNCTIONAL SUPERVISOR BEHZAD GOLEMOHAMMADI	CALCULATED-DESIGNED BY CHECKED BY	R.M. TAITANO LOUGHRAN KENNETH Y XU	REVISED BY DATE REVISED	KX 11/22/13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	14	41
<i>Kenneth Y. Xu</i> 11/22/13 REGISTERED ELECTRICAL ENGINEER DATE					
PLANS APPROVAL DATE			3-17-14		
<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>					



PLAN VIEW



SECTION A-A

LOOP WIRE IN BRIDGE DECK DETAIL

ELECTRICAL DETAILS

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL

BORDER LAST REVISED 2/1/2013

USERNAME => s135779
 DGN FILE => 0412000364ud004.dgn

RELATIVE BORDER SCALE IS IN INCHES



UNIT 0976

PROJECT NUMBER & PHASE 04120003641

E - 4

INDUCTIVE LOOP DETECTOR	
LOOP DETECTORS	
E-2	6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92, 101,280	Var	15	41

Kenneth Y. Xu 11/22/13
 REGISTERED ELECTRICAL ENGINEER DATE

3-17-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Kenneth Y. Xu
 No. 15219
 Exp. 6-30-14
 ELECT
 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.

ELECTRICAL QUANTITIES

LAST REVISION | DATE PLOTTED => 20-MAR-2014
 02-27-14 | TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92 101,280	Var	16	41

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 3-17-14

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

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	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
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	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

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

Q

R

U

V

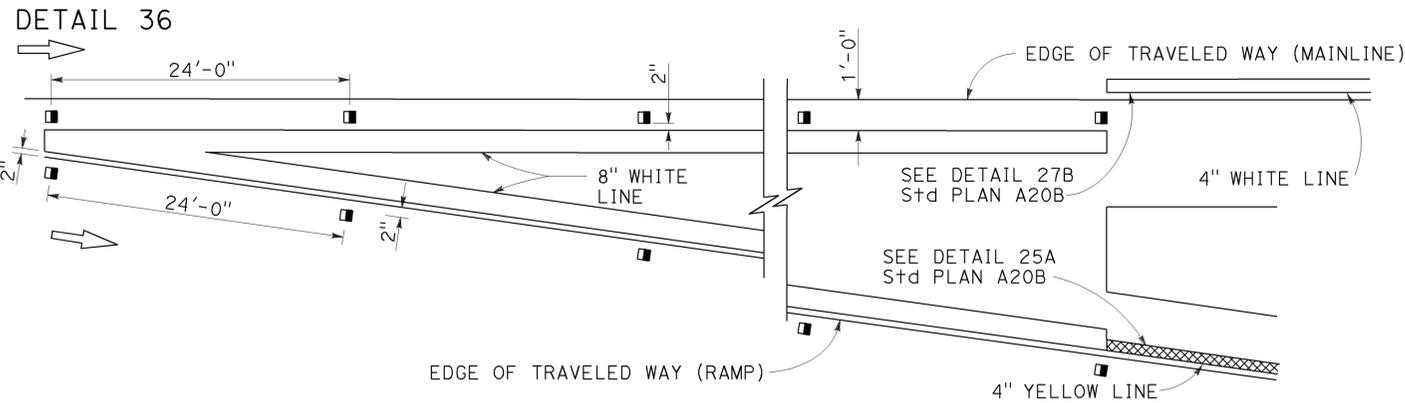
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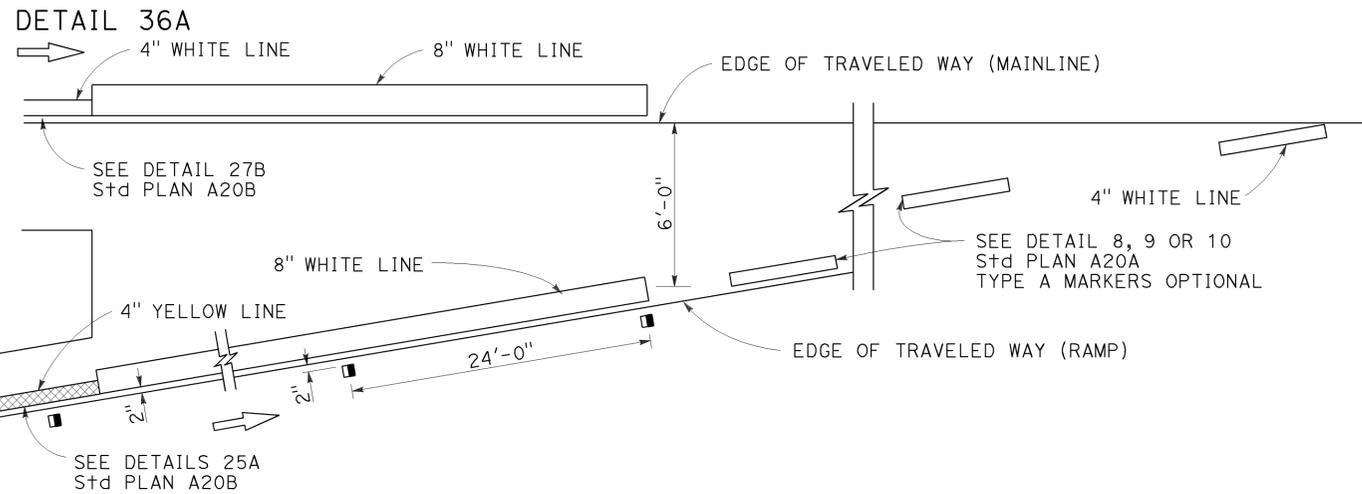
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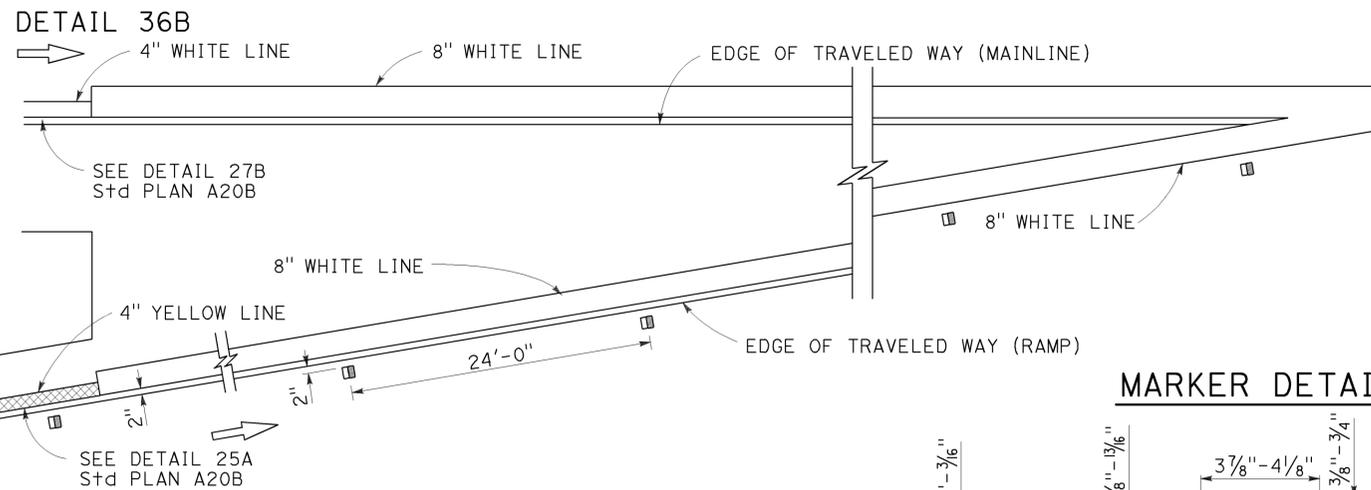
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

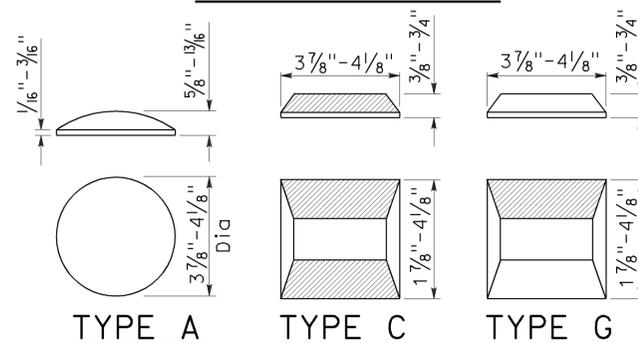


MARKER DETAILS

LEGEND:

MARKERS

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



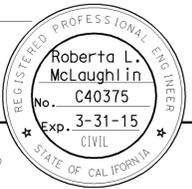
RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04 SM, SF	1,92	101,280	Var	17	41

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

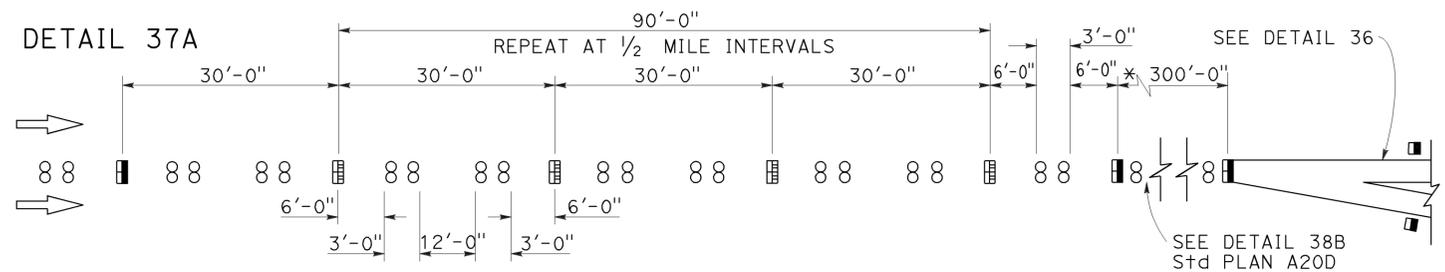
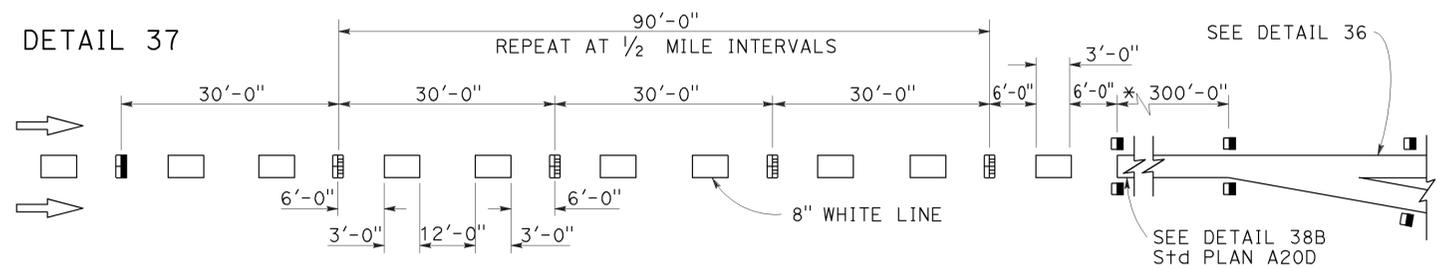
July 19, 2013
PLANS APPROVAL DATE

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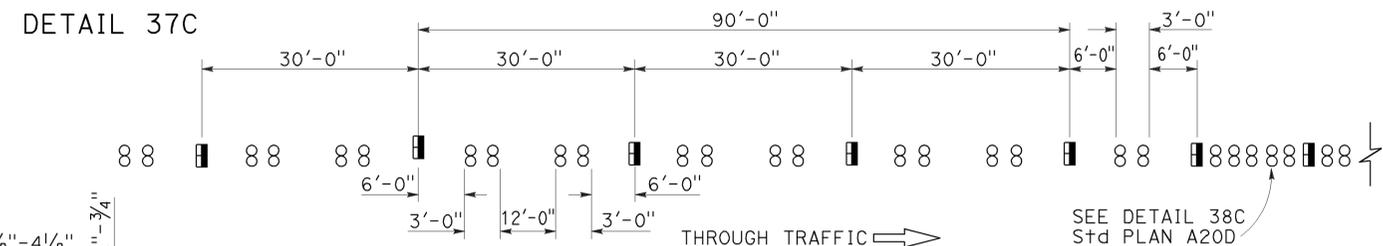
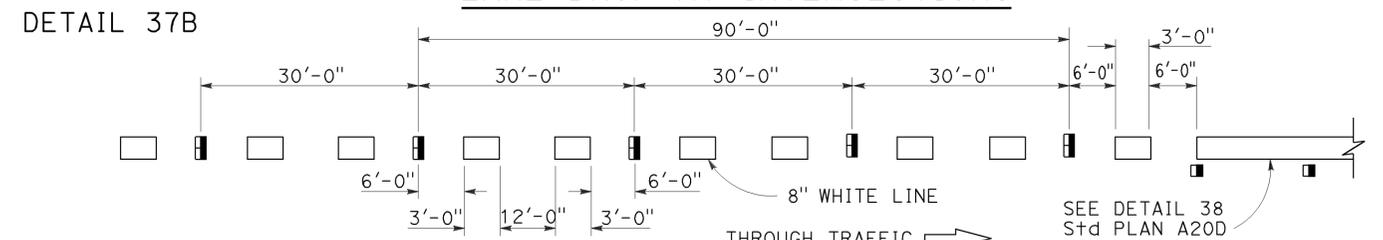
TO ACCOMPANY PLANS DATED 3-17-14

LANE DROP AT EXIT RAMP



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

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

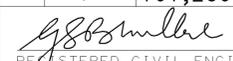
NO SCALE

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

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04 SM, SF		1,92 101,280	Var	18	41


 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 3-17-14

TABLE 1

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

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

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

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

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	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.

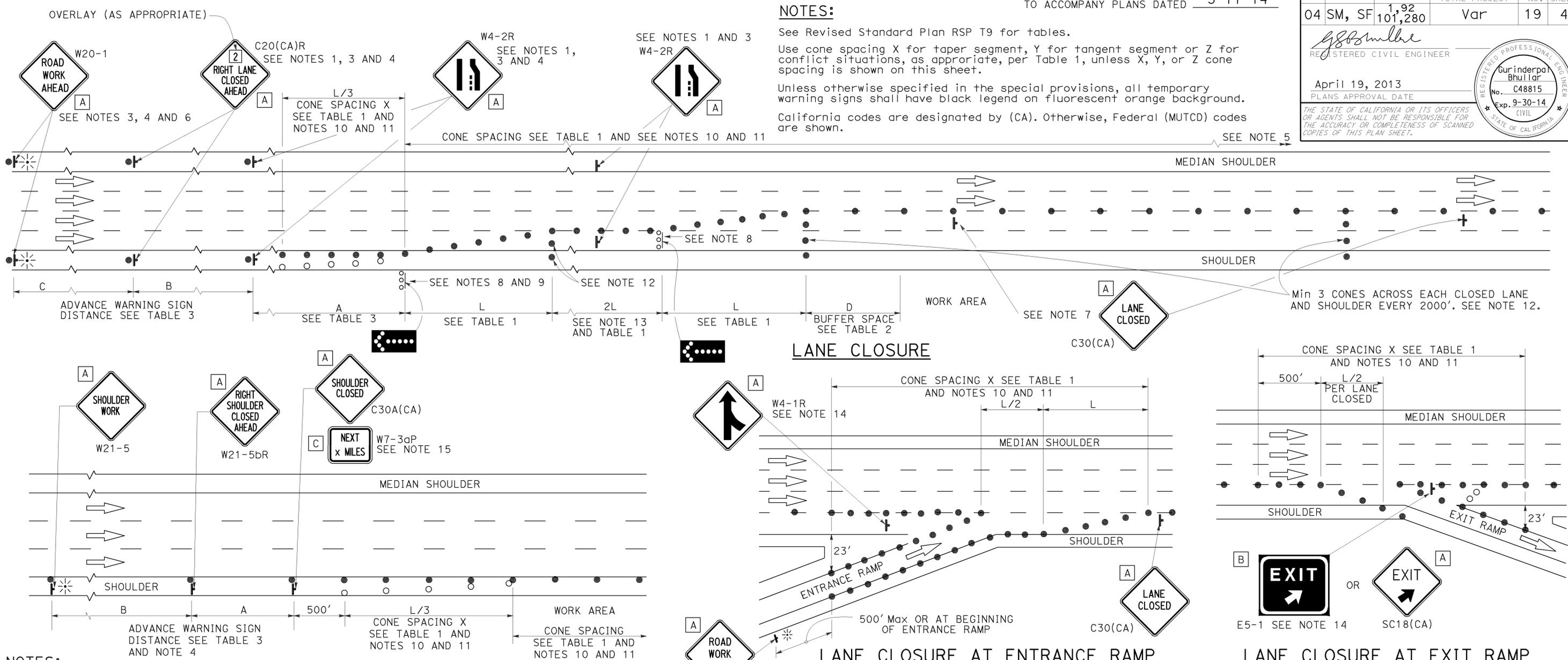
2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04 SM, SF	1,92	101,280	Var	19	41

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.

2010 REVISED STANDARD PLAN RSP T10



- 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.

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

NOTES:

See Revised Standard Plan RSP T9 for tables.

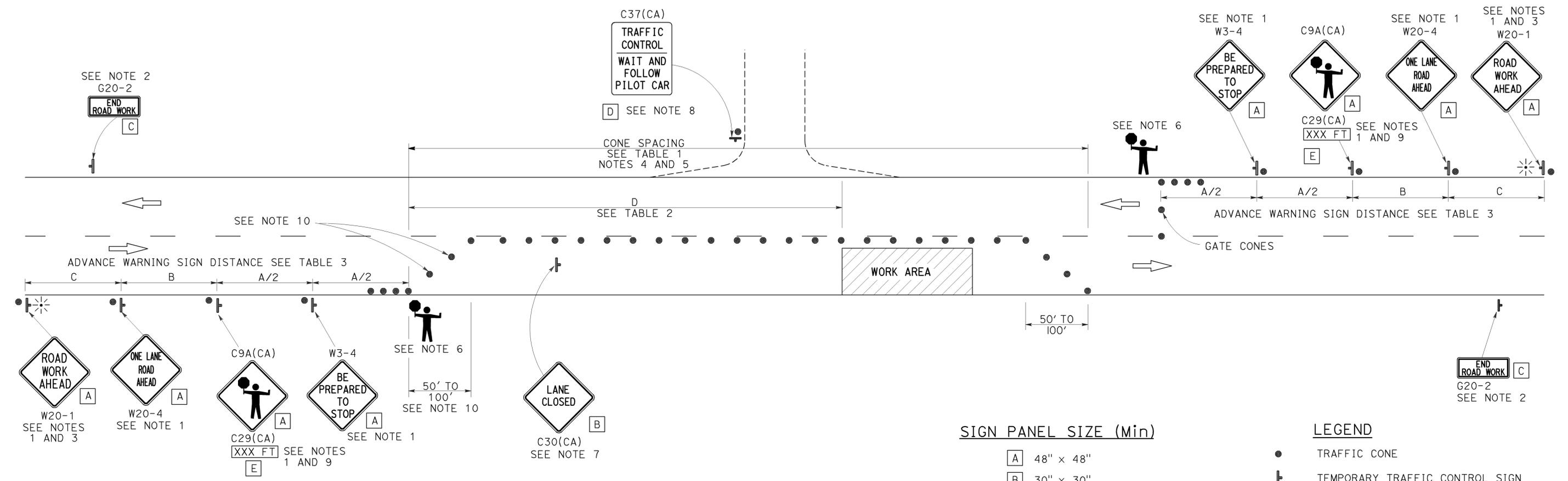
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 3-17-14



NOTES:

- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
TWO LANE CONVENTIONAL
HIGHWAYS**

NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13
DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

LEGEND

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

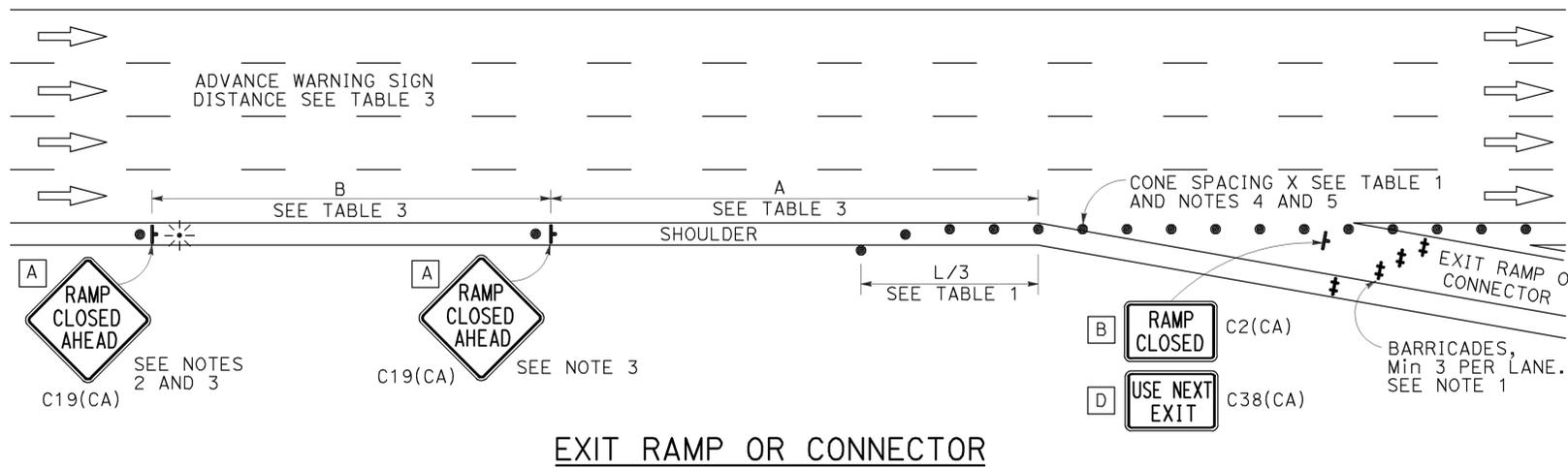
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04 SM, SF		1,92 101,280	Var	21	41

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

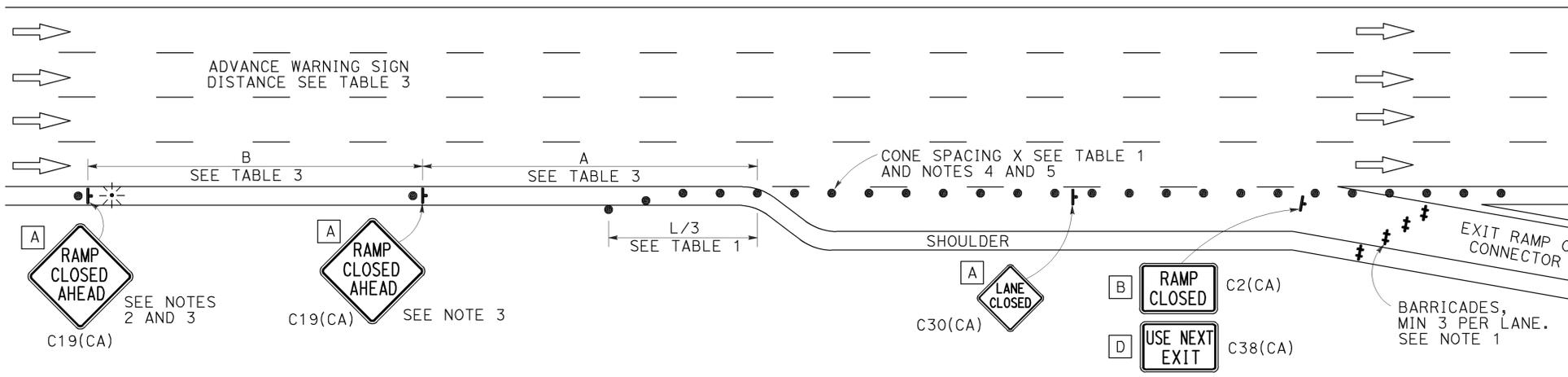
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 3-17-14

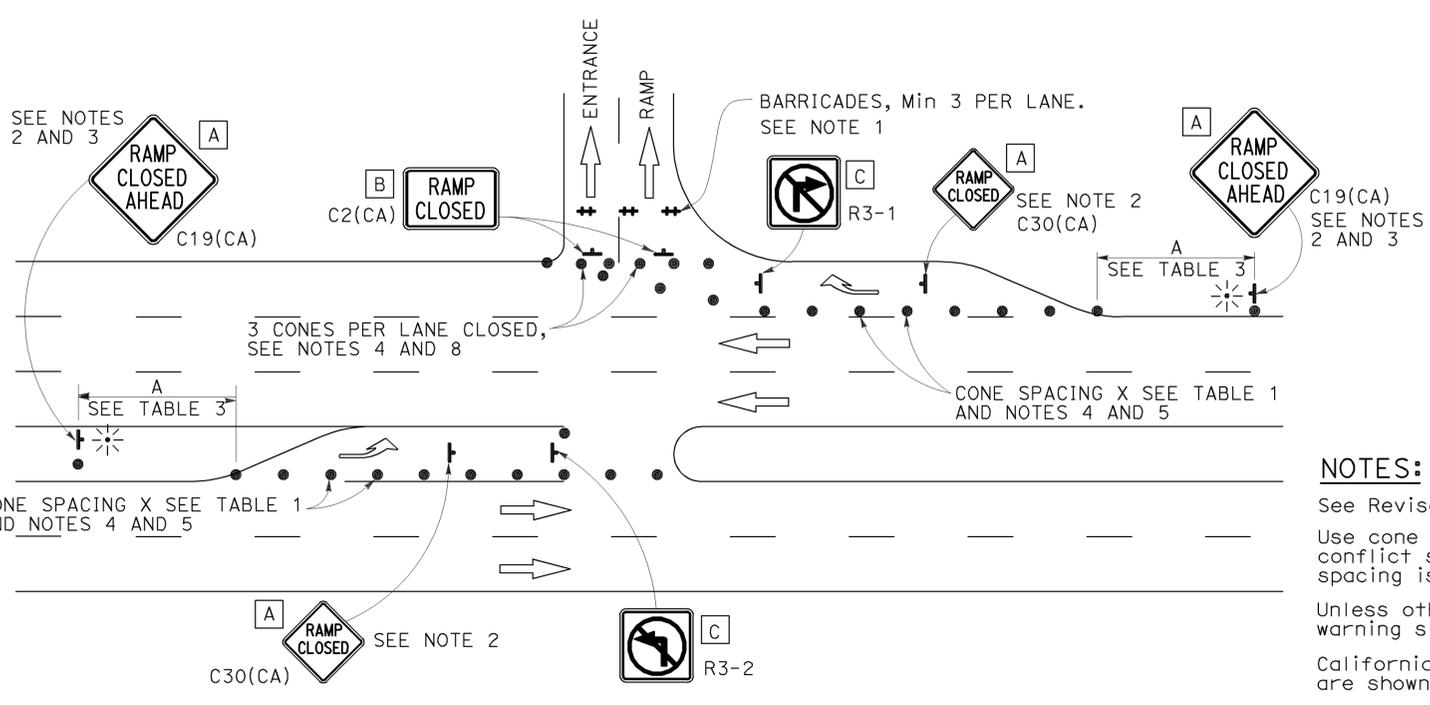
2010 REVISED STANDARD PLAN RSP T14



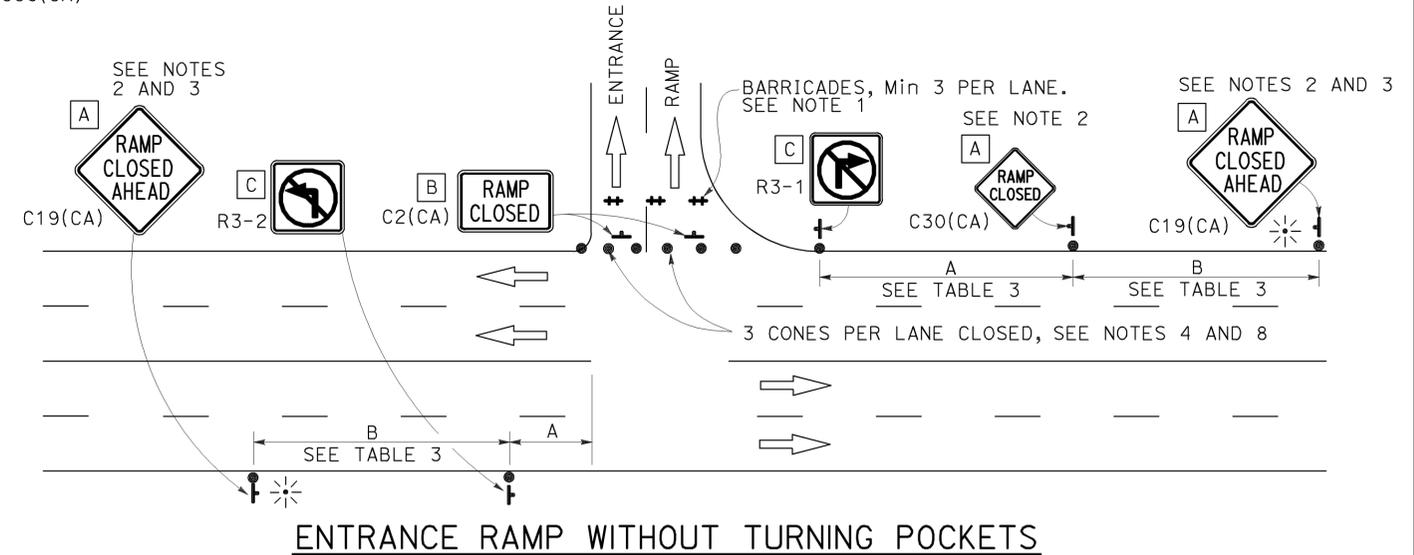
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

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

NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

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

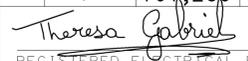
RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.
REVISED STANDARD PLAN RSP T14

LEGEND:

AB	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN
BP	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
CB	INSTALL CONDUIT INTO EXISTING PULL BOX
CC	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
CF	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
DH	DETECTOR HANDHOLE
FA	FOUNDATION TO BE ABANDONED
IS	INSTALL SIGN ON SIGNAL MAST ARM
NS	NO SLIP BASE ON STANDARD
PEC	PHOTOELECTRIC CONTROL
PEU	PHOTOELECTRIC UNIT
RC	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
RE	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
RL	RELOCATE EQUIPMENT
RR	REMOVE AND REUSE EQUIPMENT
RS	REMOVE AND SALVAGE EQUIPMENT
SC	SPLICE NEW TO EXISTING CONDUCTORS
SD	SERVICE DISCONNECT
TSP	TELEPHONE SERVICE POINT

ABBREVIATIONS

APS	ACCESSIBLE PEDESTRIAN SIGNAL	M/M	MULTIPLE TO MULTIPLE TRANSFORMER
BBS	BATTERY BACKUP SYSTEM	Mtg	MOUNTING
BC	BOLT CIRCLE	MV	MERCURY VAPOR LIGHTING FIXTURE
BPB	BICYCLE PUSH BUTTON	MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
C	CONDUIT	N	NEUTRAL (GROUNDED CONDUCTOR)
CB	CIRCUIT BREAKER	NB	NEUTRAL BUS
CCTV	CLOSED CIRCUIT TELEVISION	NC	NORMALLY CLOSE
Ck+	CIRCUIT	NO	NORMALLY OPEN
CMS	CHANGEABLE MESSAGE SIGN	P	CIRCUIT BREAKER'S POLE
Ctid	CALTRANS IDENTIFICATION	PB	PULL BOX
Comm	COMMUNICATION	PBA	PUSH BUTTON ASSEMBLY
DLC	LOOP DETECTOR LEAD-IN CABLE	PEC	PHOTOELECTRIC CONTROL
EMS	EXTINGUISHABLE MESSAGE SIGN	Ped	PEDESTRIAN
EVUC	EMERGENCY VEHICLE UNIT CABLE	PEU	PHOTOELECTRIC UNIT
EVUD	EMERGENCY VEHICLE UNIT DETECTOR	PT	CONDUIT WITH PULL TAPE
FB	FLASHING BEACON	RE	RELOCATED EQUIPMENT
FBCA	FLASHING BEACON CONTROL ASSEMBLY	RM	RAMP METERING
FBS	FLASHING BEACON WITH SLIP BASE	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
FO	FIBER OPTIC	SB	SLIP BASE
G	EQUIPMENT GROUNDING CONDUCTOR	SIC	SIGNAL INTERCONNECT CABLE
GB	GROUND BUS	Sig	SIGNAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SMA	SIGNAL MAST ARM
HAR	HIGHWAY ADVISORY RADIO	SNS	STREET NAME SIGN
Hex	HEXAGONAL	SP	SERVICE POINT
HPS	HIGH PRESSURE SODIUM	TDC	TELEPHONE DEMARCATION CABINET
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN	TMS	TRAFFIC MONITORING STATION
ISL	INDUCTION SIGN LIGHTING	TOS	TRAFFIC OPERATIONS SYSTEM
LED	LIGHT EMITTING DIODE	Veh	VEHICLE
LMA	LUMINAIRE MAST ARM	VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
LPS	LOW PRESSURE SODIUM	WIM	WEIGH-IN-MOTION
Ltg	LIGHTING	Xfmr	TRANSFORMER
Lum	LUMINAIRE		
M	METERED		
MAT	MAST ARM MOUNTING TOP ATTACHMENT		
MAS	MAST ARM MOUNTING SIDE ATTACHMENT		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92 101,280	Var	22	41
 REGISTERED ELECTRICAL ENGINEER Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL STATE OF CALIFORNIA					
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 3-17-14

SOFFIT AND WALL MOUNTED LUMINAIRES

-  PENDANT, 70 W HPS UNLESS OTHERWISE SPECIFIED
-  FLUSH, 70 W HPS UNLESS OTHERWISE SPECIFIED
-  WALL SURFACE, 70 W HPS UNLESS OTHERWISE SPECIFIED
-  EXISTING SOFFIT OR WALL LUMINAIRE TO REMAIN UNMODIFIED
-  EXISTING SOFFIT OR WALL LUMINAIRE TO BE MODIFIED AS SPECIFIED

NOTE:
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

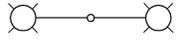
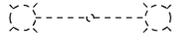
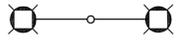
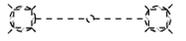
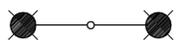
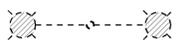
SYMBOL USED	DEFINITIONS
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V(dc)	VOLT (DIRECT CURRENT)
V(ac)	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
HZ	HERTZ

MISCELLANEOUS ELECTROLIERS

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT NOTES OR PROJECT PLANS)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

- NOTES:**
- HPS luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. HPS luminaires shall be 200 W when installed on other type standards or poles, unless otherwise specified.
 - LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
 - Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**
NO SCALE

RSP ES-1A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-1A

CONDUIT

SIGNAL EQUIPMENT

NEW	EXISTING	
---	---	LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
---	---	TRAFFIC SIGNAL CONDUIT
---C---	---c---	COMMUNICATION CONDUIT
---T---	---t---	TELEPHONE CONDUIT
---F---	---f---	FIRE ALARM CONDUIT
---FO---	---fo---	FIBER OPTIC CONDUIT
---	---	CONDUIT TERMINATION
		CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

NEW	EXISTING	
		PEDESTRIAN SIGNAL HEAD "C" INDICATES COUNTDOWN PEDESTRIAN HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
		MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)

TO ACCOMPANY PLANS DATED 3-17-14

SIGNAL EQUIPMENT Cont

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION SYSTEM

SERVICE EQUIPMENT

NEW	EXISTING	
---OH---	---oh---	OVERHEAD LINES
		WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
		SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
		TELEPHONE DEMARCATION CABINET

		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.

POLE-MOUNTED SERVICE DESIGNATION

	TYPE H SERVICE, 28'-10"	TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE
--	-------------------------	--

FLASHING BEACON

NEW	EXISTING	
		FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
		FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
		FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

ILLUMINATED OVERHEAD SIGN

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**
NO SCALE

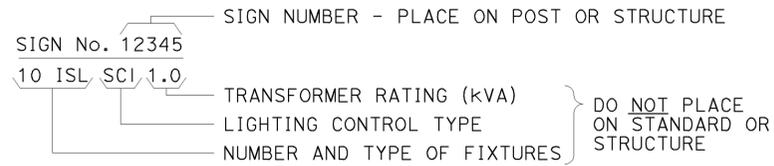
RSP ES-1B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-1B

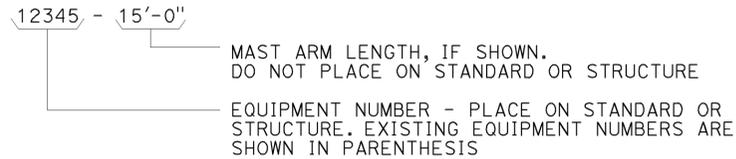
TO ACCOMPANY PLANS DATED 3-17-14

EQUIPMENT IDENTIFICATION

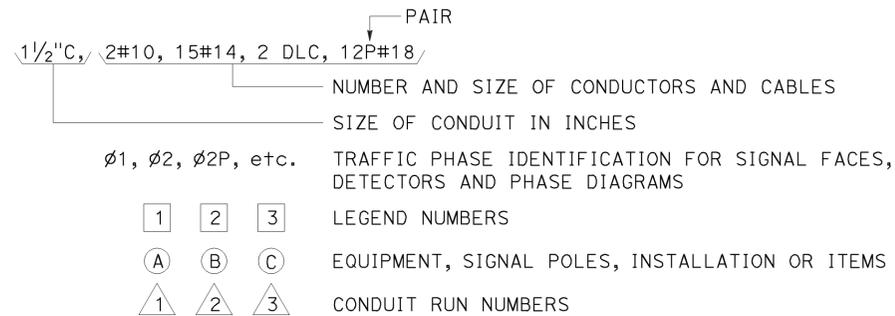
ILLUMINATED SIGN IDENTIFICATION NUMBER:



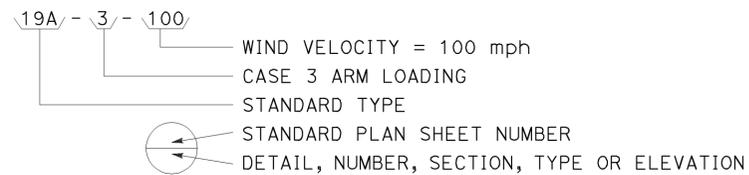
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



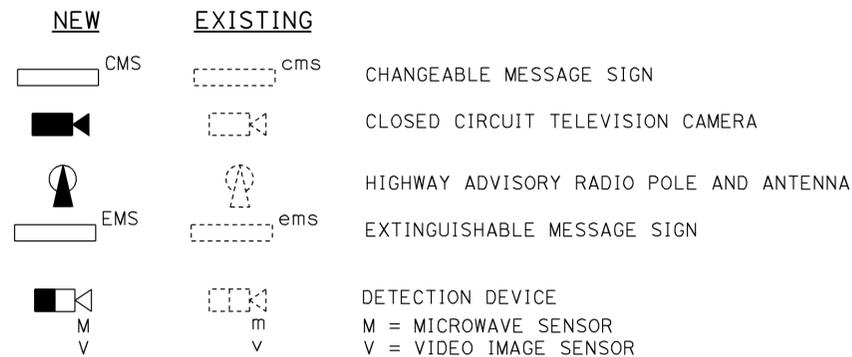
CONDUIT AND CONDUCTOR IDENTIFICATION:



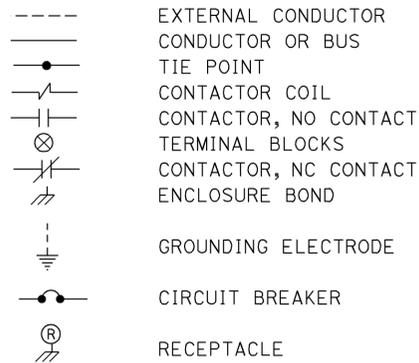
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



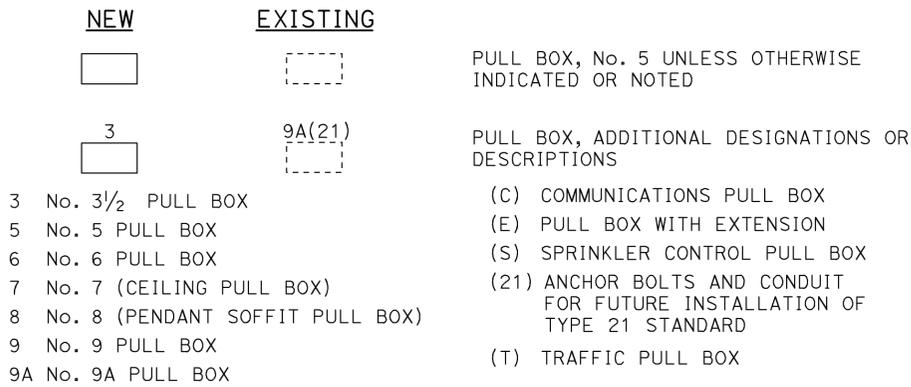
MISCELLANEOUS EQUIPMENT



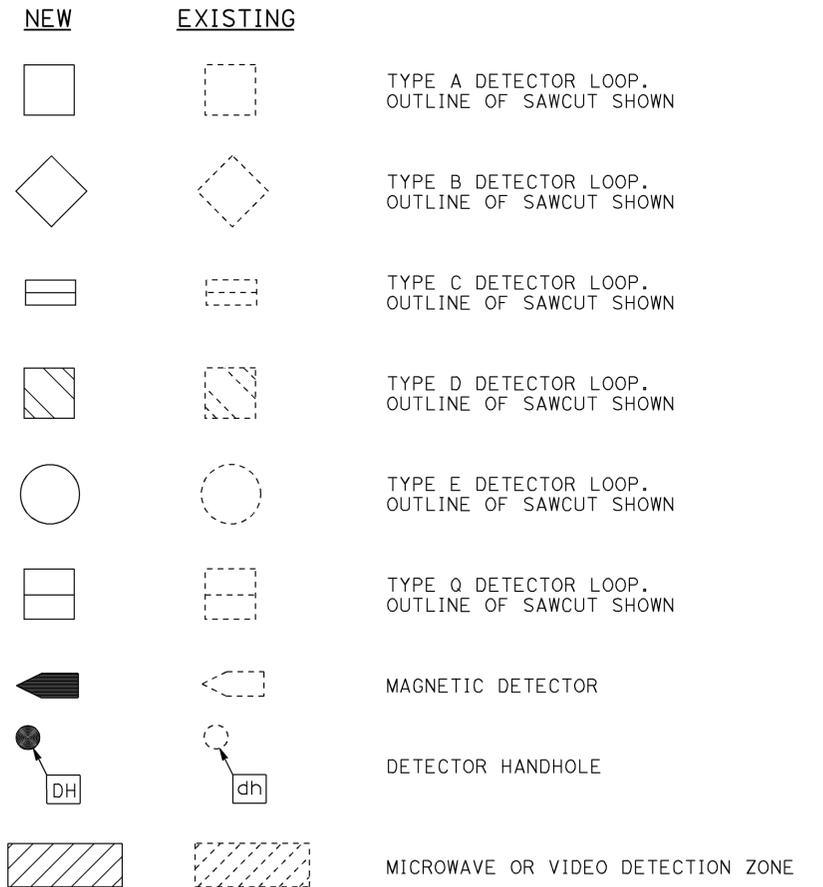
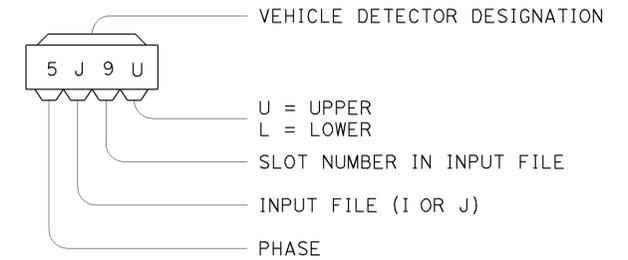
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

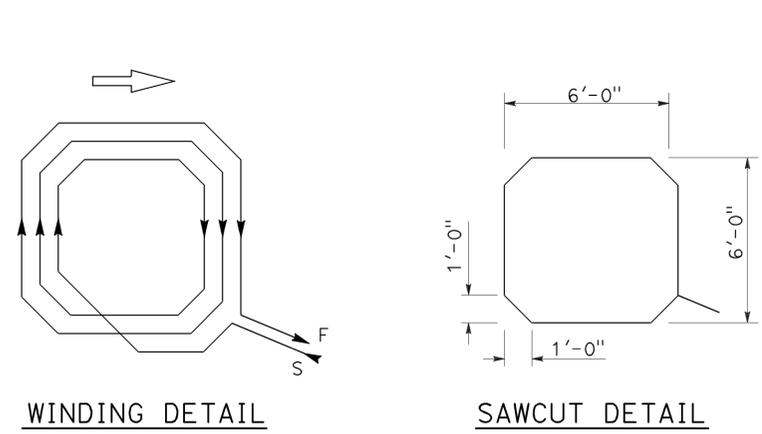
NO SCALE

RSP ES-1C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

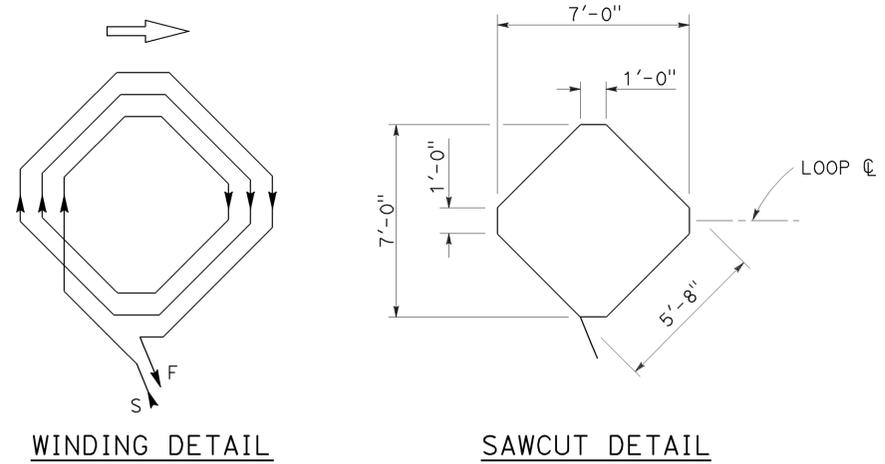
REVISED STANDARD PLAN RSP ES-1C

2010 REVISED STANDARD PLAN RSP ES-1C

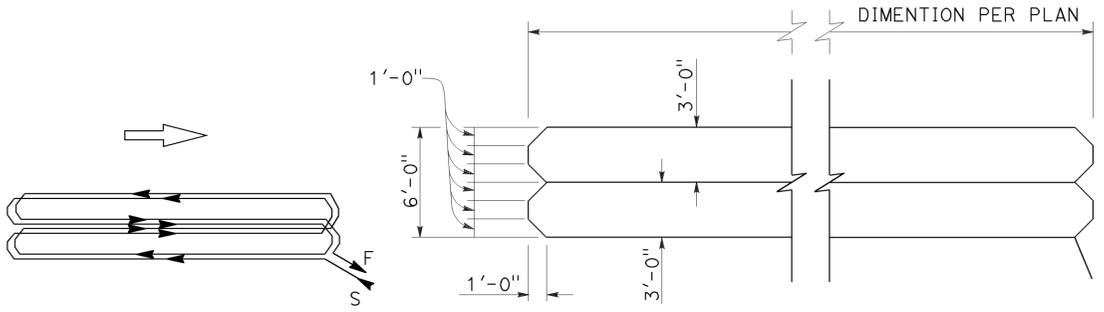
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04 SM, SF	101,280	1,92	Var	25	41
<i>Theresa Gabriel</i> REGISTERED ELECTRICAL ENGINEER July 19, 2013 PLANS APPROVAL DATE <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
TO ACCOMPANY PLANS DATED <u>3-17-14</u>					



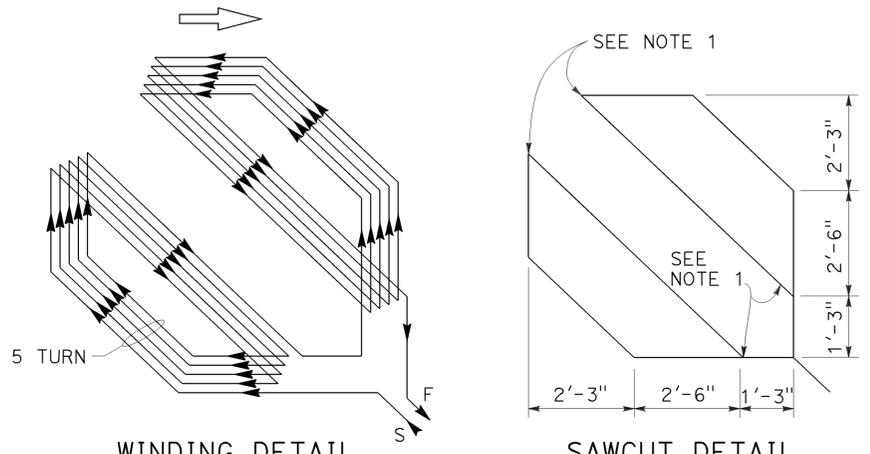
WINDING DETAIL
SAWCUT DETAIL
TYPE A LOOP DETECTOR CONFIGURATION



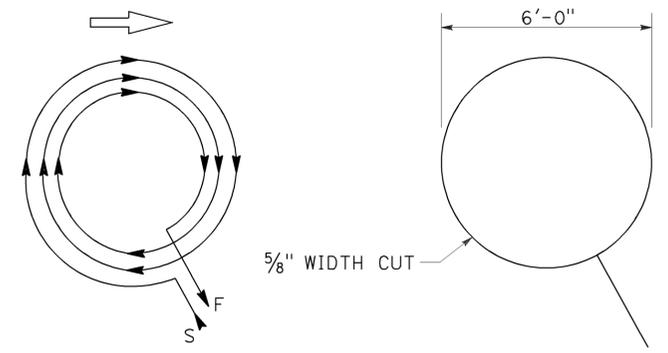
WINDING DETAIL
SAWCUT DETAIL
TYPE B LOOP DETECTOR CONFIGURATION



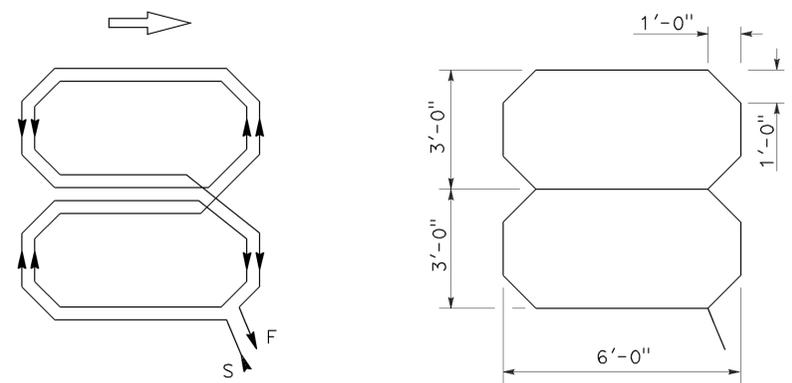
WINDING DETAIL
SAWCUT DETAIL
TYPE C LOOP DETECTOR CONFIGURATION



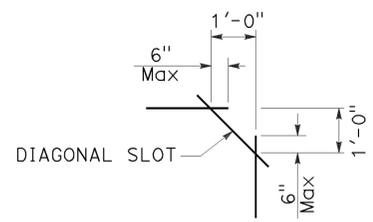
WINDING DETAIL
SAWCUT DETAIL
TYPE D LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE E LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE Q LOOP DETECTOR CONFIGURATION



PLAN VIEW OF DIAGONAL SLOT AT CORNERS

- NOTES:**
1. Round corners of acute angle sawcuts to prevent damage to conductors.
 2. Typical distance separating loops from edge to edge is 10' for Type A, B, D and E installation in single lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

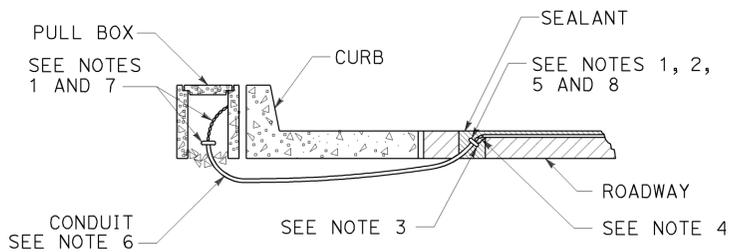
ELECTRICAL SYSTEMS (DETECTORS)

NO SCALE

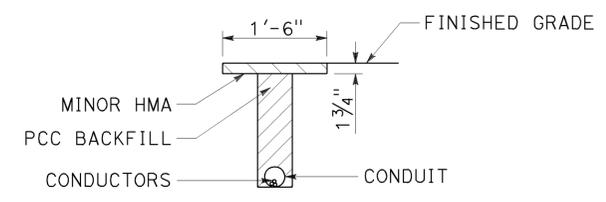
RSP ES-5B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5B DATED MAY 20, 2011 - PAGE 449 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-5B

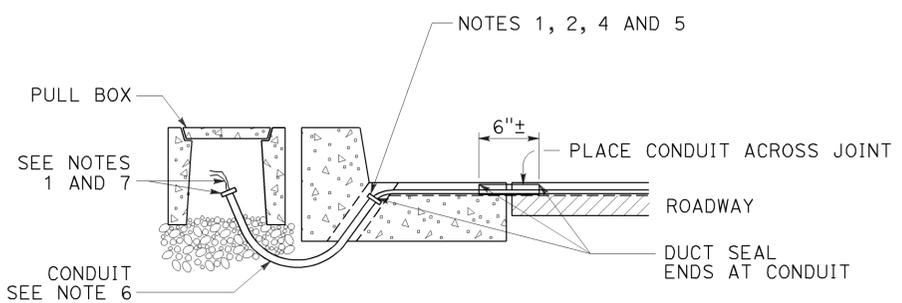
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	101, 92, 280	Var	26	41
<i>Theresa Gabriel</i> REGISTERED ELECTRICAL ENGINEER July 19, 2013 PLANS APPROVAL DATE <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
TO ACCOMPANY PLANS DATED <u>3-17-14</u>					



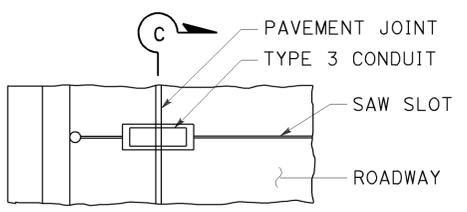
TYPE A
CURB TERMINATION DETAIL



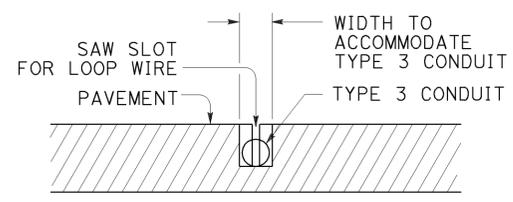
"T" TRENCH
DETAIL T



CROSS SECTION

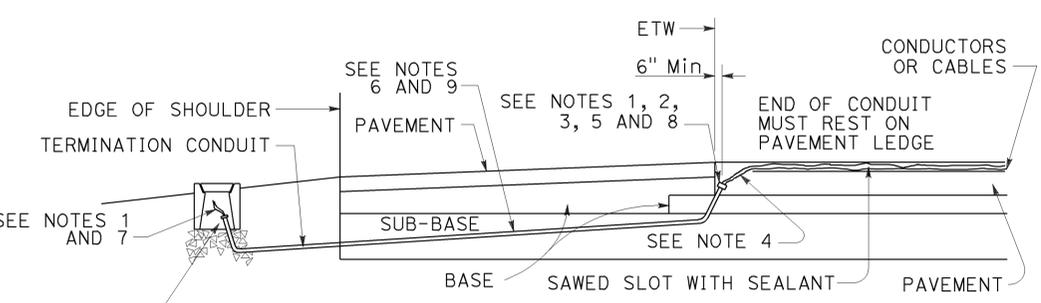


PLAN VIEW

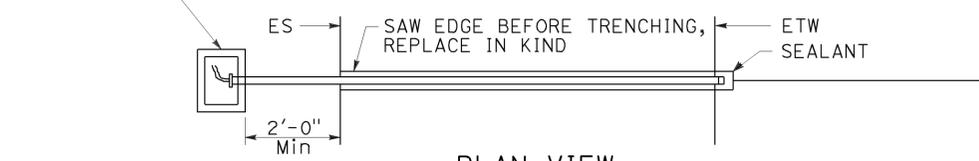


SECTION C-C

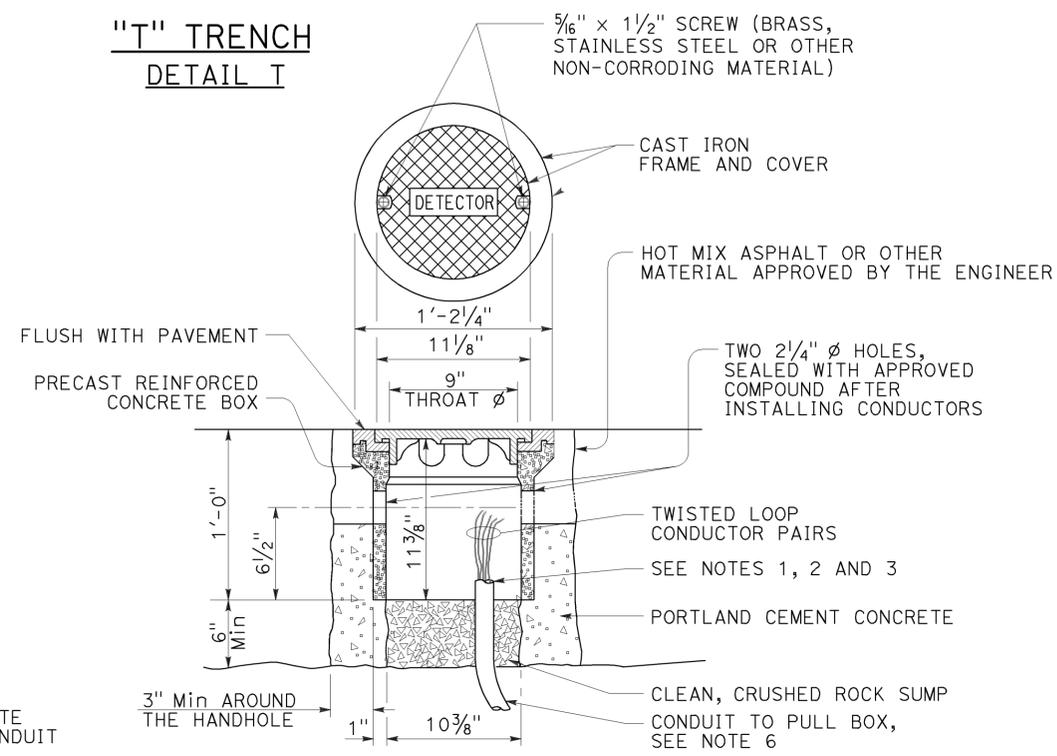
TYPE B
CURB TERMINATION DETAIL



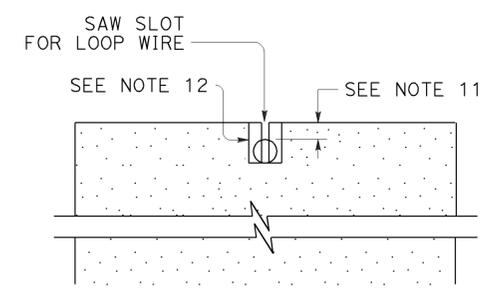
CROSS SECTION



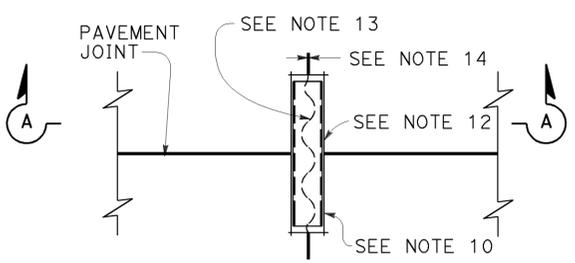
PLAN VIEW
SHOULDER TERMINATION DETAILS



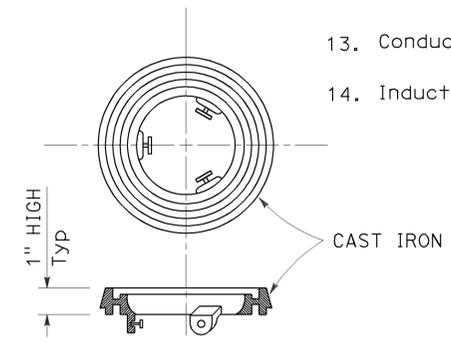
DETECTOR HANDHOLE DETAIL



SECTION A-A



PLAN VIEW
TYPICAL LOOP LEAD-IN DETAIL
AT PAVEMENT JOINT



LOCKING GRADE RING

NOTES:

- Bushing shall be used at end of conduit.
- Tape detector conductors or cables 3" each side of bushings.
- Install duct seal compound to each end of termination conduit before installing sealant.
- Round all sharp edges where detector conductors or cables have to pass.
- End of conduit shall be 3/8" below roadway surface.
- Conduit size Loop conductors
 1"C minimum 1 to 2 pairs
 1 1/2"C minimum 3 to 4 pairs
 2"C minimum 5 or more pairs
- Splice detector conductors or cables to detector lead-in-cable.
- Location of detector handhole when shown on plans.
- When the shoulder and traveled way are paved with the same material and there is no joint between them, the conduit shall extend only 2'-0" into the shoulder pavement.
- 3/4"C, Type 3 conduit 6" long minimum, plug both ends with duct compound to keep out sealant.
- 1/2" Minimum between top of conduit and pavement surface.
- Sawcut shall not exceed 1" in width and 1/8" longer than conduit to be installed.
- Conductors with 1/2" minimum slack inside conduit.
- Inductive loop detector saw slot.

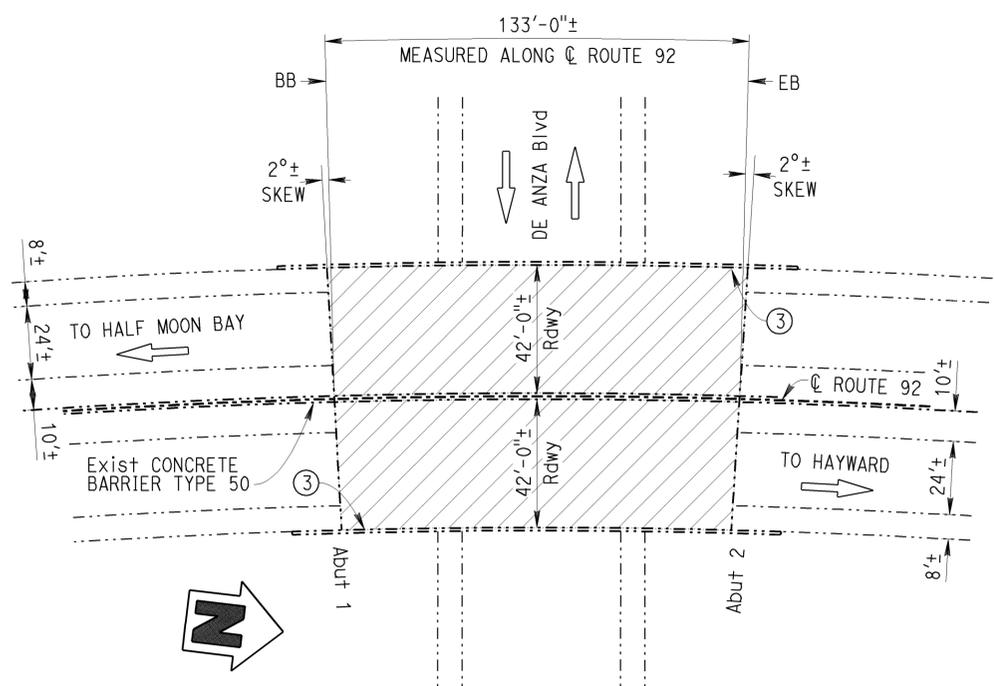
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(CURB TERMINATION
AND HANDHOLE)
NO SCALE

RSP ES-5D DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5D DATED MAY 20, 2011 - PAGE 451 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5D

2010 REVISED STANDARD PLAN RSP ES-5D

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92 101,280	Var	27	41
Thomas J. Bolla REGISTERED CIVIL ENGINEER		1-8-14 DATE			
3-17-14 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>					



DE ANZA BOULEVARD UNDERCROSSING

Br No. 35-0203, SM, ROUTE 92, PM R8.67
1" = 30'

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	ROUTE 92/101 Sep STRUCTURE PLAN No. 1
6	ROUTE 92/101 Sep STRUCTURE PLAN No. 2
7	JOINT SEAL ASSEMBLY DETAILS No. 1
8	JOINT SEAL ASSEMBLY DETAILS No. 2
9	JOINT SEAL ASSEMBLY DETAILS No. 3
10	JOINT SEAL ASSEMBLY DETAILS No. 4
11	BENT 9-16 BEARING REPAIR DETAILS
12	MISCELLANEOUS DETAILS
13	JOINT SEAL DETAILS
14	JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4") No. 1
15	JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4") No. 2

STANDARD PLANS DATED 2010

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

GENERAL NOTES LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HL93 and permit design load.

REINFORCED CONCRETE: $f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

STRUCTURAL STEEL: $f_y =$ ASTM A709 Grade 50

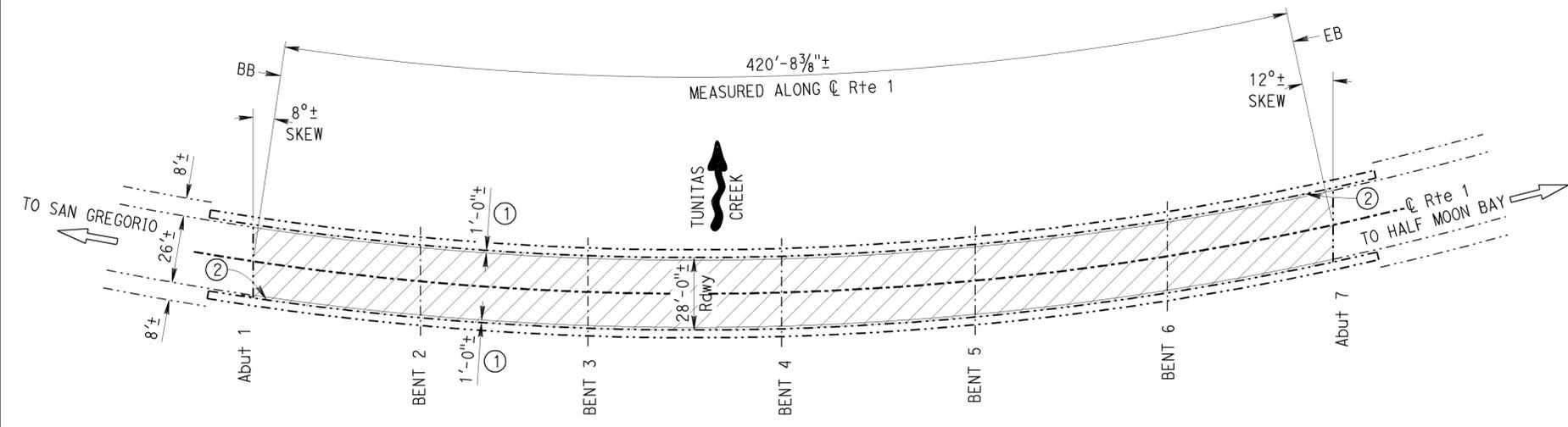
- NOTES: (APPLY TO ALL SHEETS)
- Indicates existing.
 - THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 - NOTES: (APPLY TO THIS SHEET ONLY)
 - Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
 - ① Remove approximately 1'-0" width of existing contrast treatment along the barrier rail on both sides of the roadway along the entire length of the bridge.
 - ② Indicates location of paint bridge identification on face of concrete barrier rail:
TUNITAS CREEK
35-0031 PM 20.82
1962
 - ③ Indicates location of paint bridge identification on face of concrete barrier rail:
DE ANZA BLVD UC
35-0203 PM R8.67
1967

DE ANZA BLVD UC (35-0203) QUANTITIES

	LUMP SUM	
PUBLIC SAFETY PLAN		
PREPARE CONCRETE BRIDGE DECK SURFACE	11,170	SQFT
TREAT BRIDGE DECK	11,170	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	127	GAL
PAINT BRIDGE IDENTIFICATION	2	EA

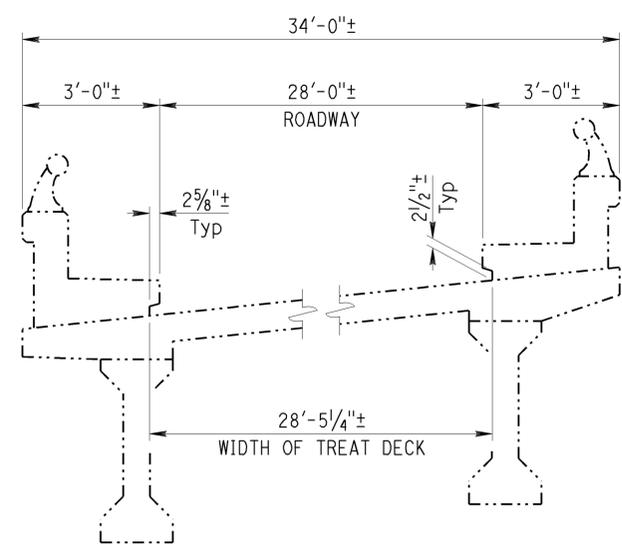
TUNITAS CREEK (35-0031) QUANTITIES

	LUMP SUM	
PUBLIC SAFETY PLAN		
REMOVE CONTRAST TREATMENT (BRIDGE)	841	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	11,960	SQFT
TREAT BRIDGE DECK	11,960	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	136	GAL
PAINT BRIDGE IDENTIFICATION	2	EA



TUNITAS CREEK

Br No. 35-0031, SM, ROUTE 1, PM 20.82
1" = 30'



TYPICAL SECTION

Br No. 35-0031
1/2" = 1'

Michael J. Lee
DESIGN ENGINEER
1-8-14

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

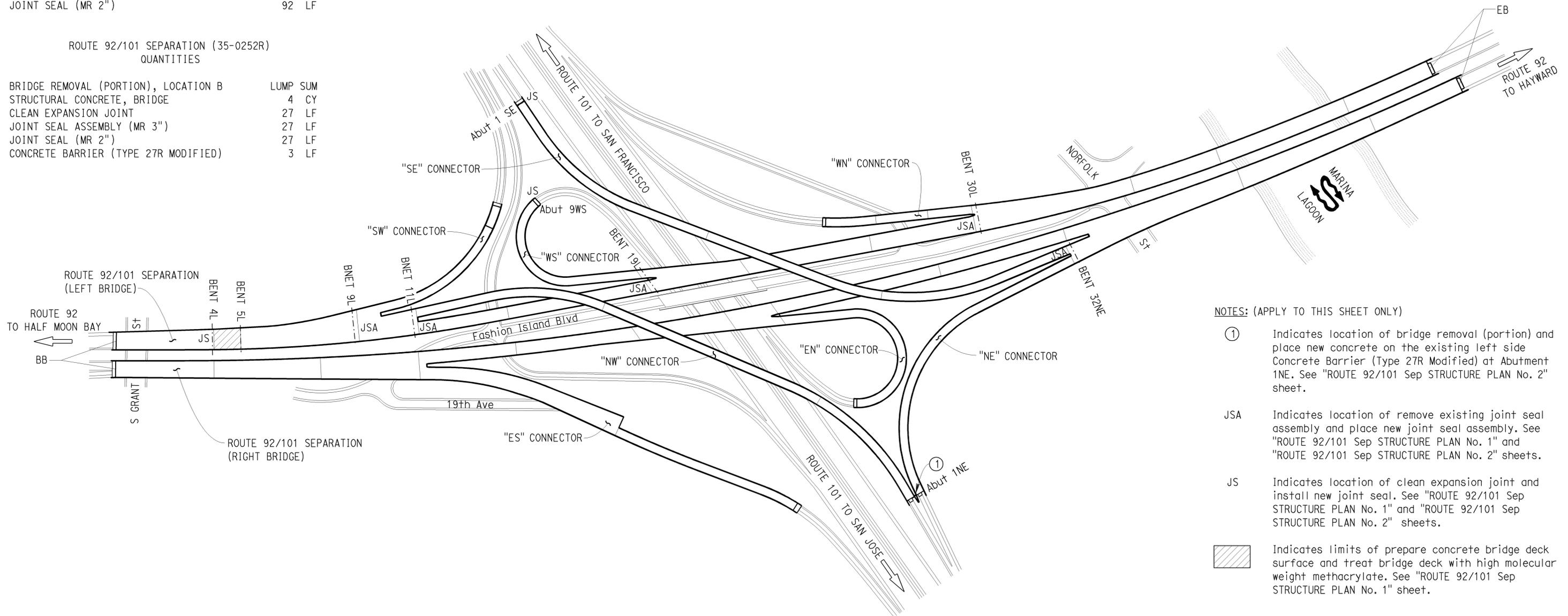
BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTES 1, 92, 101 & 280 BRIDGES
GENERAL PLAN No. 1

ROUTE 92/101 SEPARATION (35-0252L)
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	1 CF
REMOVE UNSOUND CONCRETE	1 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,485 SQFT
TREAT BRIDGE DECK	5,485 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	62 GAL
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	25 CY
CLEAN EXPANSION JOINT	92 LF
JOINT SEAL ASSEMBLY (MR 2")	39 LF
JOINT SEAL ASSEMBLY (MR 2 1/2")	144 LF
JOINT SEAL ASSEMBLY (MR 3")	54 LF
JOINT SEAL (MR 2")	92 LF

ROUTE 92/101 SEPARATION (35-0252R)
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	4 CY
CLEAN EXPANSION JOINT	27 LF
JOINT SEAL ASSEMBLY (MR 3")	27 LF
JOINT SEAL (MR 2")	27 LF
CONCRETE BARRIER (TYPE 27R MODIFIED)	3 LF



NOTES: (APPLY TO THIS SHEET ONLY)

- ① Indicates location of bridge removal (portion) and place new concrete on the existing left side Concrete Barrier (Type 27R Modified) at Abutment 1NE. See "ROUTE 92/101 Sep STRUCTURE PLAN No. 2" sheet.
- JSA Indicates location of remove existing joint seal assembly and place new joint seal assembly. See "ROUTE 92/101 Sep STRUCTURE PLAN No. 1" and "ROUTE 92/101 Sep STRUCTURE PLAN No. 2" sheets.
- JS Indicates location of clean expansion joint and install new joint seal. See "ROUTE 92/101 Sep STRUCTURE PLAN No. 1" and "ROUTE 92/101 Sep STRUCTURE PLAN No. 2" sheets.
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate. See "ROUTE 92/101 Sep STRUCTURE PLAN No. 1" sheet.



ROUTE 92/101 SEPARATION

Br No. 35-0252R/L, SM, ROUTE 92, PM R11.78
NO SCALE

Michael J. Lee
DESIGN ENGINEER 1-8-14

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTES 1, 92, 101 & 280 BRIDGES
GENERAL PLAN No. 2

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
PROJECT NUMBER & PHASE: 0412000364 1 CONTRACT NO.: 04-3E4701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES		SHEET	OF
5-7-13	5-19-13	2	15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1,92	Var	28	41
101,280					
<i>Thomas J. Bolla</i>		1-8-14			
REGISTERED CIVIL ENGINEER		DATE			
3-17-14					
PLANS APPROVAL DATE					
				REGISTERED PROFESSIONAL ENGINEER	
				THOMAS J. BOLLA	
				No. C 43811	
				Exp. 6-30-15	
				CIVIL	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

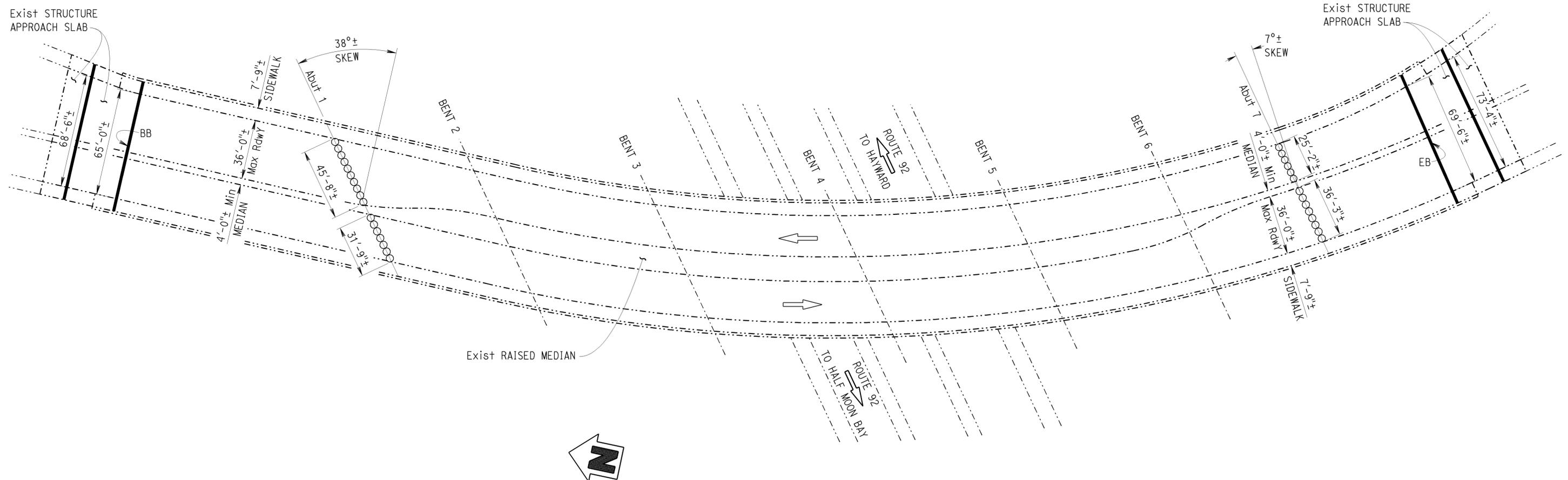
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92 101, 280	Var	29	41
<i>Thomas J. Bolla</i> REGISTERED CIVIL ENGINEER			1-8-14	DATE	
3-17-14 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

VINTAGE PARK OC (35-0313)
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	18 CY
CLEAN EXPANSION JOINT	282 LF
JOINT SEAL (MR 1/2")	282 LF
JOINT SEAL ASSEMBLY (MR 2")	63 LF
JOINT SEAL ASSEMBLY (MR 2 1/2")	79 LF

- NOTES:** (APPLY TO THIS SHEET ONLY)
- Indicates location of remove existing joint seal assembly and place new joint seal assembly. See "JOINT SEAL ASSEMBLY DETAILS No. 3" and "JOINT SEAL ASSEMBLY DETAILS No. 4" sheets.
 - Indicates location of clean expansion joint and install new joint seal. See "JOINT SEAL DETAILS" sheet.



VINTAGE PARK OVERCROSSING

Br No. 35-0313, SM, ROUTE 92, PM R13.25
1" = 30'

Michael J. Lee
DESIGN ENGINEER 1-8-14

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 1, 92, 101 & 280 BRIDGES
GENERAL PLAN No. 3

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

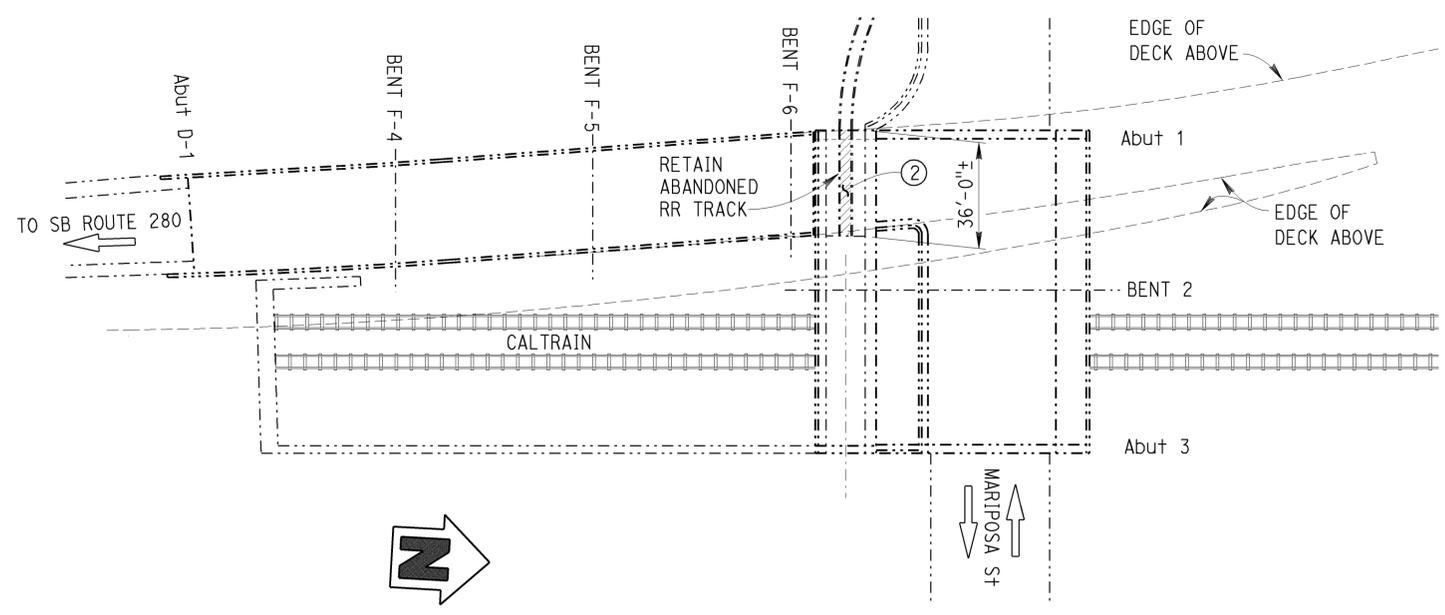
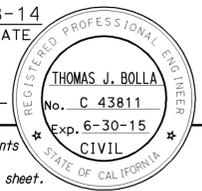


UNIT: 3488
PROJECT NUMBER & PHASE: 0412000364 1 CONTRACT NO.: 04-3E4701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
5-7-13 5-19-13 5-13-13 11-18-13 1-8-14	3	15

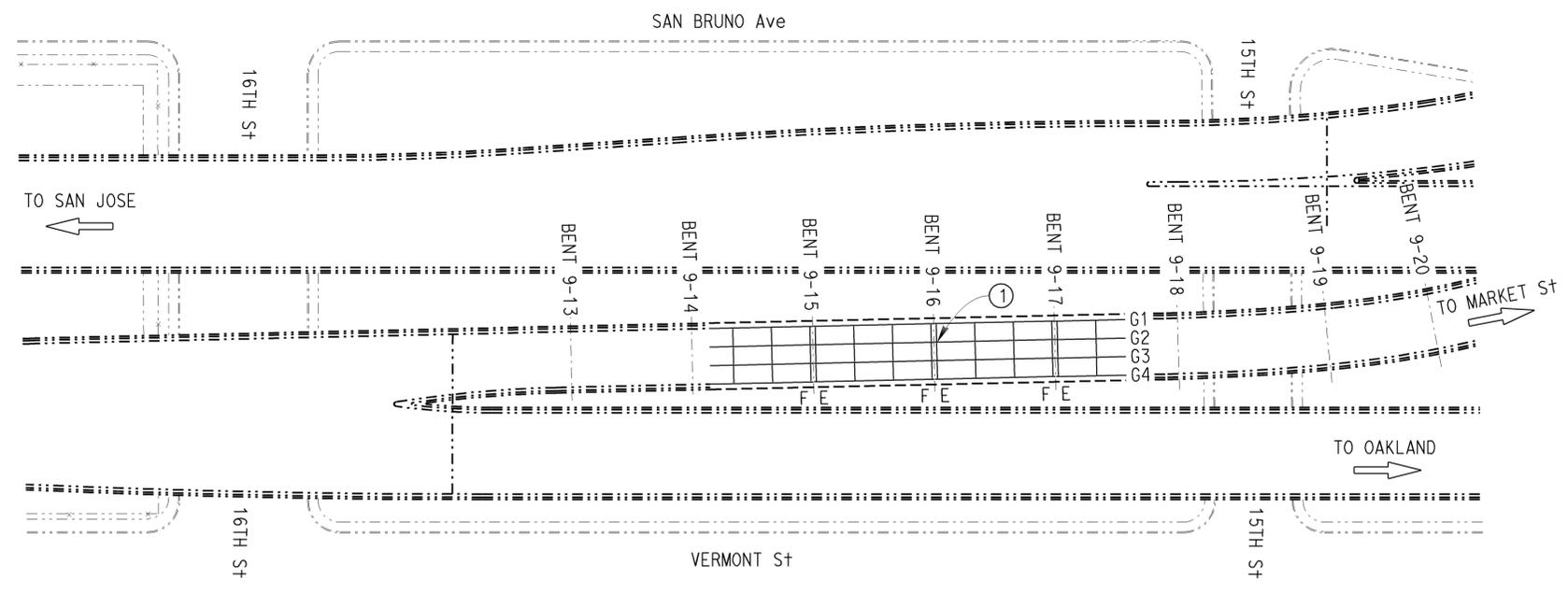
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	30	41
		REGISTERED CIVIL ENGINEER		DATE	
		THOMAS J. BOLLA		1-8-14	
		PLANS APPROVAL DATE		3-17-14	
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



MARIPOSA STREET RR SEPARATION/280 SB ONRAMP (34-0105)
 QUANTITIES
 BRIDGE REMOVAL (PORTION), LOCATION E LUMP SUM
 HOT MIX ASPHALT (BRIDGE) 6 TON

MARIPOSA STREET RR SEPARATION/280 SB ONRAMP
 Br No. 34-0105, SF, ROUTE 280, PM R6.66
 1" = 30'

- NOTES: (APPLY TO THIS SHEET ONLY)
- ① Indicates location of repair existing upper bearing keeper plate at Girder G2, at Bent 9-16 in Span 16. For details see "BENT 9-16 BEARING REPAIR DETAILS" sheet.
 - ② Indicates location of remove existing rubber panels and place HMA between abandoned railroad track rails. For details see "MISCELLANEOUS DETAILS" sheet.
- G1 - G4 Indicates existing girder designation.
 E Indicates expansion bearing.
 F Indicates fixed bearing.



CENTRAL VIADUCT (34-0077)
 QUANTITIES
 LEAD COMPLIANCE PLAN LUMP SUM
 BRIDGE REMOVAL (PORTION), LOCATION D LUMP SUM
 CLEAN AND PAINT STRUCTURAL STEEL LUMP SUM
 SPOT BLAST CLEAN AND PAINT UNDERCOAT 1 SQFT
 MISCELLANEOUS METAL (BRIDGE) 11 LB

CENTRAL VIADUCT - PARTIAL PLAN
 Br No. 34-0077, SF, ROUTE 101, PM R4.25
 1" = 40'

Michael J. Lee 1-8-14
 DESIGN ENGINEER

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTES 1, 92, 101 & 280 BRIDGES
GENERAL PLAN No. 4

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

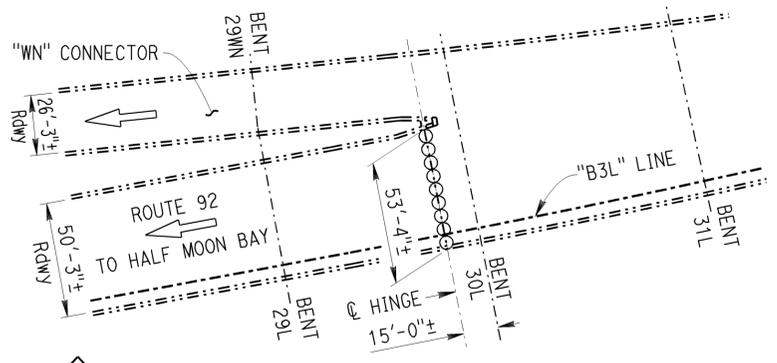
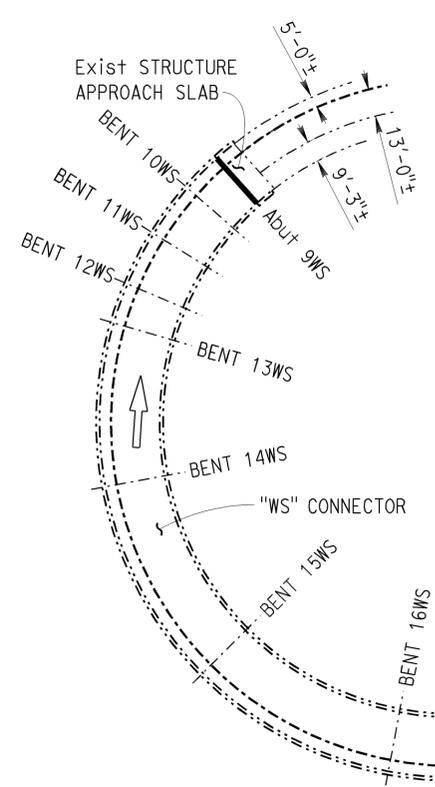
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488
 PROJECT NUMBER & PHASE: 0412000364 1 CONTRACT NO.: 04-3E4701

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
	5-7-13 5-19-13 5-13-13 11-18-13 1-8-14	4	15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	31	41
Thomas J. Bolla REGISTERED CIVIL ENGINEER			1-8-14	DATE	
3-17-14 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)
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
 - Indicates location of remove existing joint seal assembly and place new joint seal assembly. For details see "JOINT SEAL ASSEMBLY DETAILS No. 1", "JOINT SEAL ASSEMBLY DETAILS No. 2" and "JOINT SEAL ASSEMBLY DETAILS No. 4" sheets.
 - Indicates location of clean expansion joint and install new joint seal. See "JOINT SEAL DETAILS" sheet.

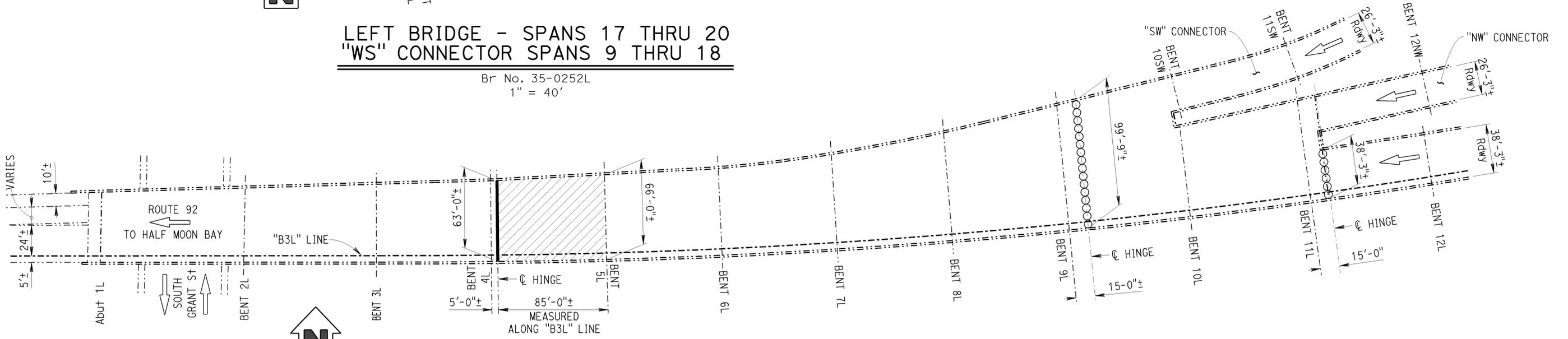
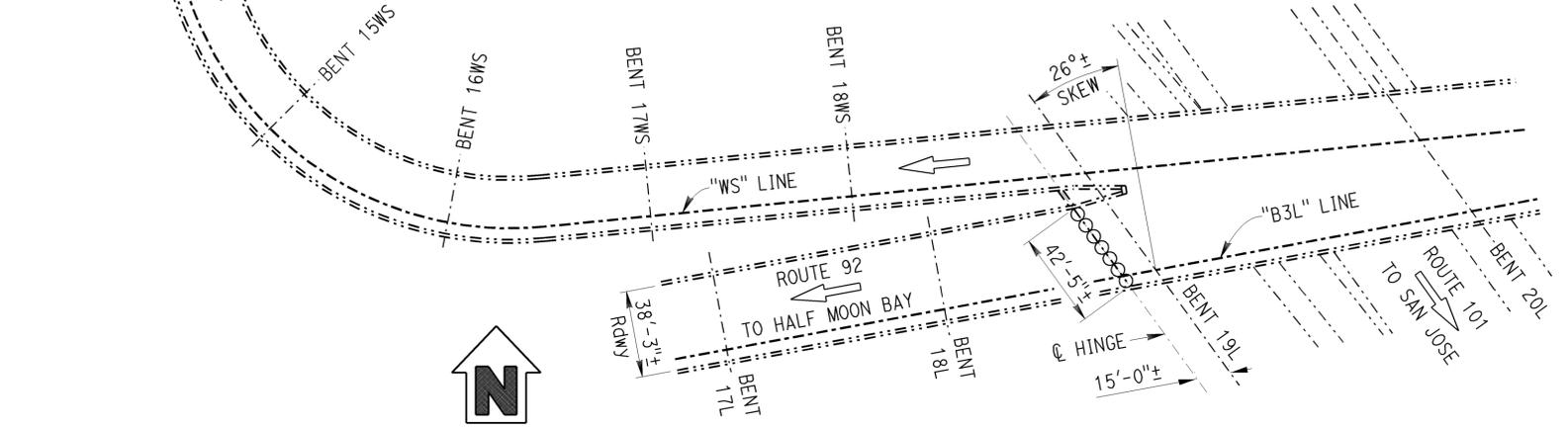


LEFT BRIDGE - SPANS 29 & 30

Br No. 35-0252L
1" = 40'

**LEFT BRIDGE - SPANS 17 THRU 20
"WS" CONNECTOR SPANS 9 THRU 18**

Br No. 35-0252L
1" = 40'



LEFT BRIDGE - SPANS 1 THRU 12

Br No. 35-0252L
1" = 40'

DESIGN	BY T. BOLLA	CHECKED HOAI TRAN
DETAILS	BY G.F. BIDWELL	CHECKED HOAI TRAN
QUANTITIES	BY T. BOLLA	CHECKED HOAI TRAN

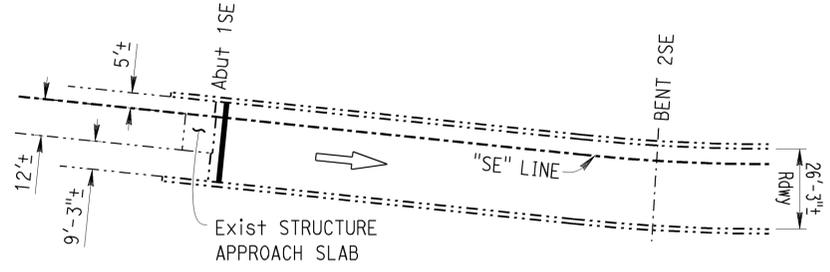
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

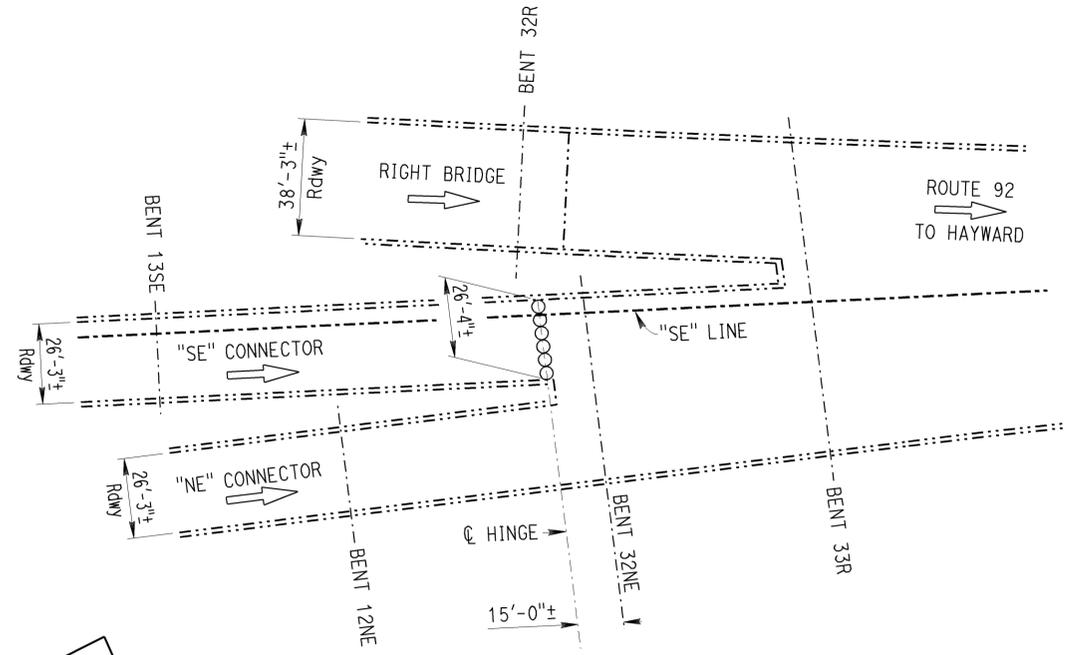
BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 1, 92, 101 & 280 BRIDGES
ROUTE 92/101 Sep STRUCTURE PLAN No. 1

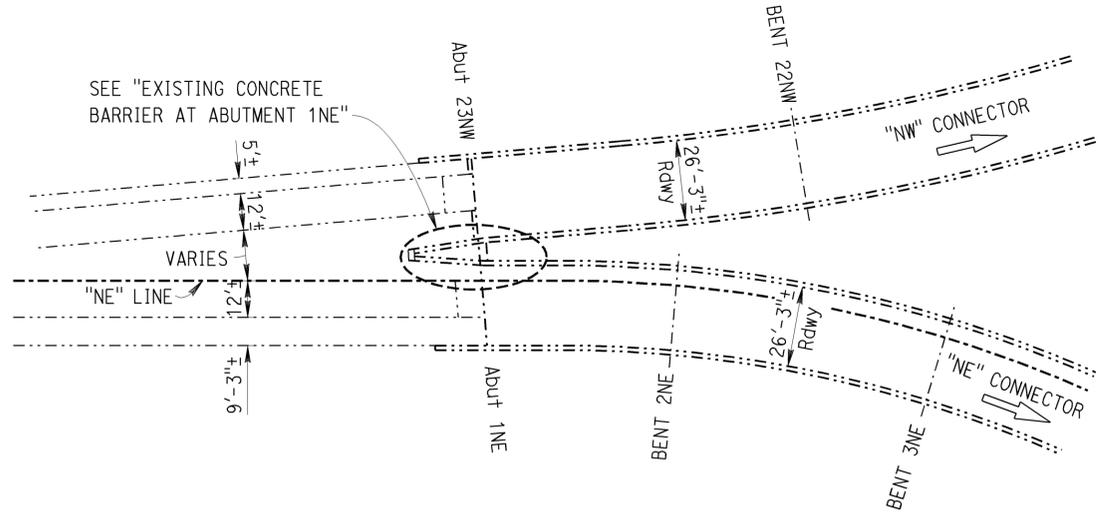
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	32	41
REGISTERED CIVIL ENGINEER		DATE		3-17-14	
THOMAS J. BOLLA		1-8-14		PLANS APPROVAL DATE	
REGISTERED PROFESSIONAL ENGINEER		No. C 43811		Exp. 6-30-15	
CIVIL		STATE OF CALIFORNIA			
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



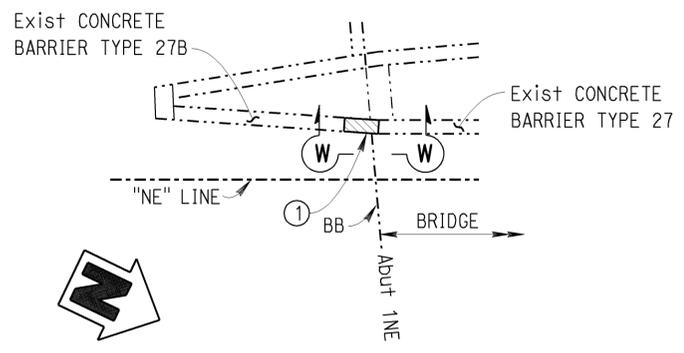
"SE" CONNECTOR - SPAN 1
 Br No. 35-0252R
 1" = 30'



"SE" CONNECTOR - SPANS 13SE & 32NE
 Br No. 35-0252R
 1" = 30'



"NE" CONNECTOR - ABUTMENT 1NE
 Br No. 35-0252R
 1" = 30'



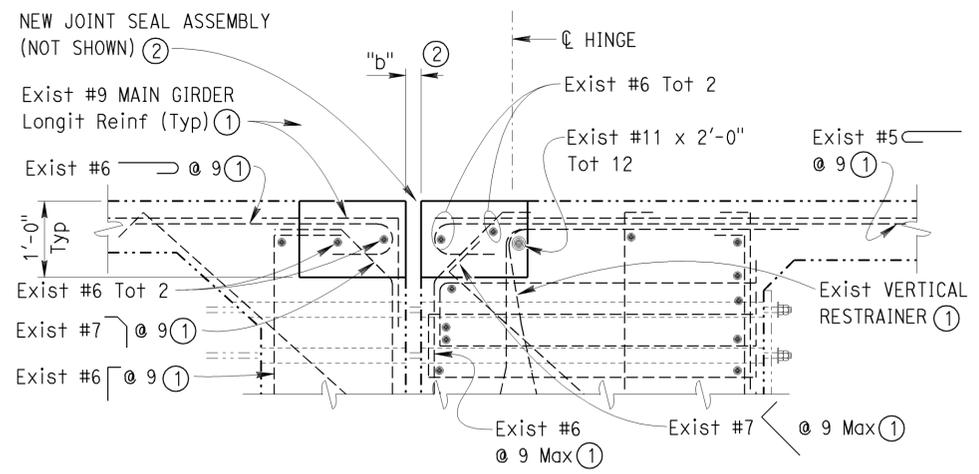
EXISTING CONCRETE BARRIER AT ABUTMENT 1NE
 Br No. 35-0252R
 1" = 10'

- NOTES: (APPLY TO THIS SHEET ONLY)
-  Indicates location of remove existing joint seal assembly and place new joint seal assembly. For details see "JOINT SEAL ASSEMBLY DETAILS No. 1" and "JOINT SEAL ASSEMBLY DETAILS No. 4" sheets.
 -  Indicates location of clean expansion joint and install new joint seal. See "JOINT SEAL DETAILS" sheet.
 -  Indicates location of bridge removal (portion) and place new concrete on existing Concrete Barrier (Type 27R Modified). For details see "PARTIAL ELEVATION W-W AT ABUTMENT 1NE" on "MISCELLANEOUS DETAILS" sheet.

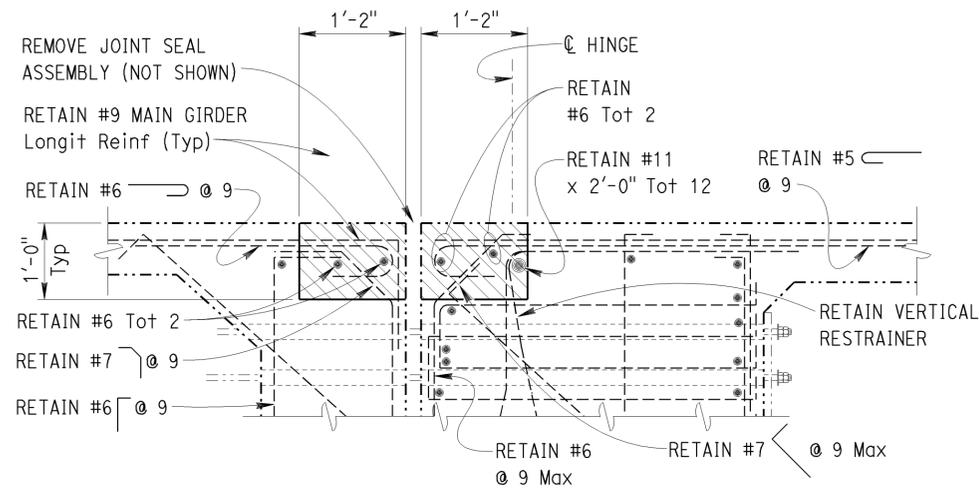
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY T. BOLLA	CHECKED HOAI TRAN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	PROJECT NUMBER & PHASE: 0412000364 1	CONTRACT NO.: 04-3E4701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES					SHEET 6 OF 15	
	DETAILS	BY G.F. BIDWELL	CHECKED HOAI TRAN			POST MILE					VARIES	5-7-13	5-19-13	5-13	11-18-13		1-8-14
	QUANTITIES	BY T. BOLLA	CHECKED HOAI TRAN			UNIT: 3488					PROJECT NUMBER & PHASE: 0412000364 1	CONTRACT NO.: 04-3E4701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	5-7-13	5-19-13		5-13

USERNAME => s121511 DATE PLOTTED => 08-JAN-2014 TIME PLOTTED => 12:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	33	41
Thomas J. Bolla REGISTERED CIVIL ENGINEER		1-8-14 DATE			
3-17-14 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>					



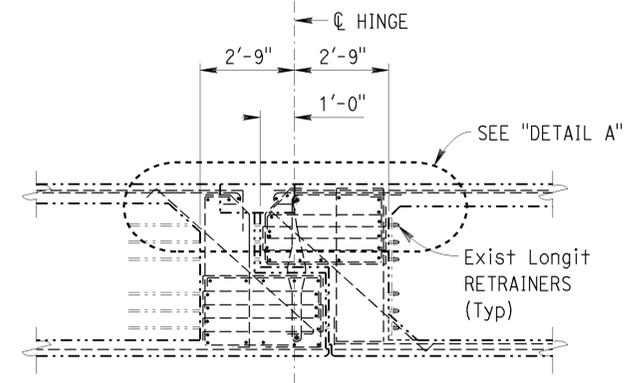
RECONSTRUCTION



EXISTING

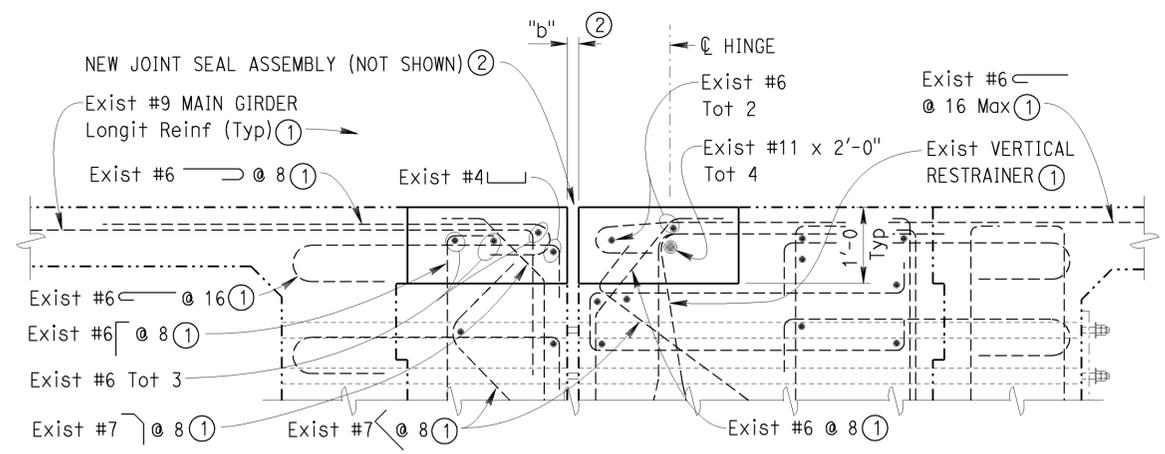
DETAIL A

1" = 1'

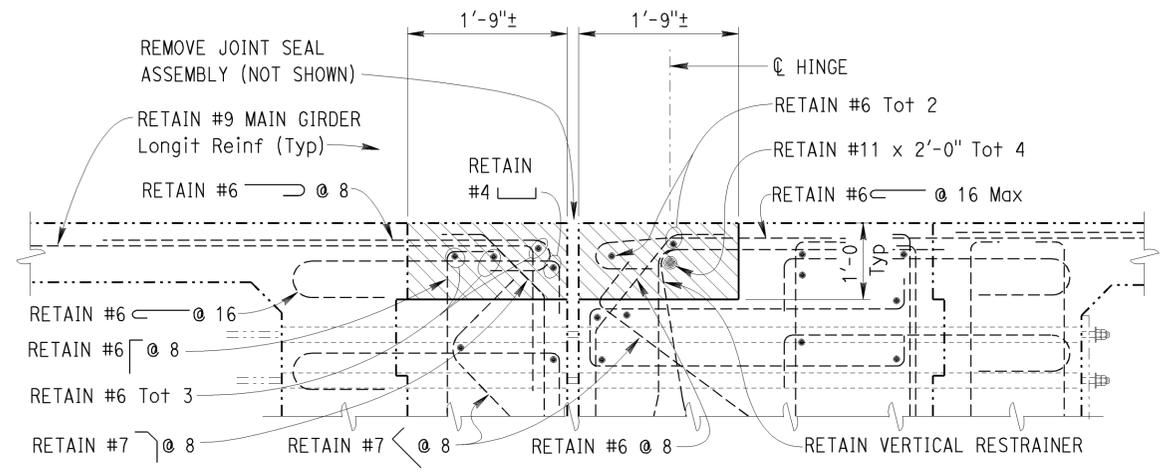


HINGE NEAR BENT 9L

Br No. 35-0252L
3/8" = 1'



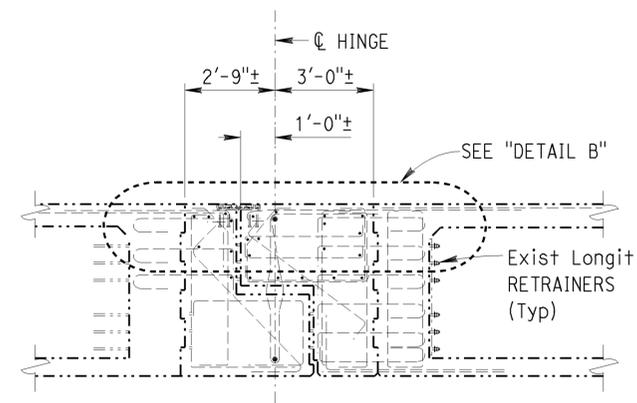
RECONSTRUCTION



EXISTING

DETAIL B

1" = 1'



HINGE NEAR BENTS 11L & 32NE

Br No. 35-0252L/R
3/8" = 1'

- NOTES:** (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove existing concrete.
 - ① Bend existing reinforcing steel as required to clear new joint seal assembly.
 - ② New joint seal assembly not shown. For joint seal assembly at low side of deck, sidewalk, and concrete median see "JOINT SEAL ASSEMBLY DETAILS No. 4" sheet. For all other details see "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4") No. 1" and "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4") No. 2" sheets.
 - "b" Reconstructed gap width as determined by the Engineer.

DESIGN	BY T. BOLLA	CHECKED HOAI TRAN
DETAILS	BY G.F. BIDWELL	CHECKED HOAI TRAN
QUANTITIES	BY T. BOLLA	CHECKED HOAI TRAN

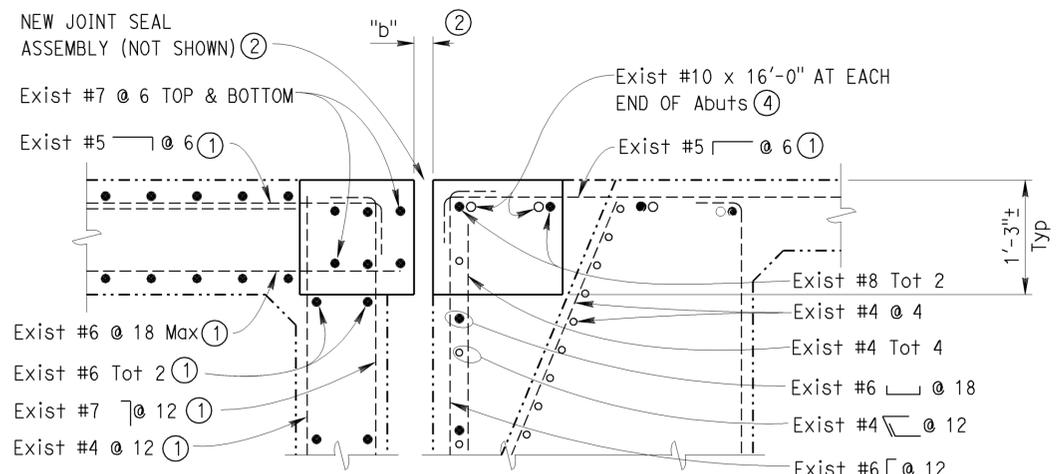
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

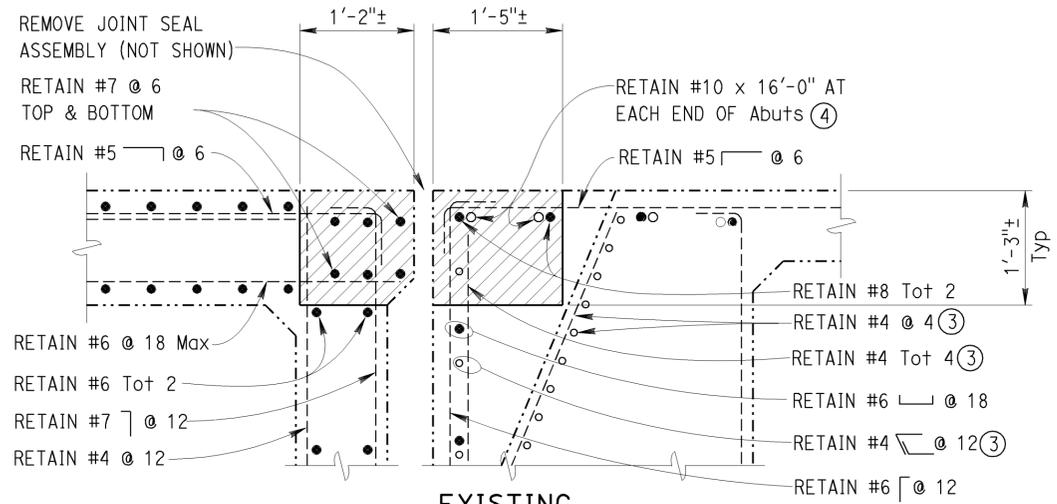
BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 1, 92, 101 & 280 BRIDGES
JOINT SEAL ASSEMBLY DETAILS No. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	35	41
Thomas J. Bolla REGISTERED CIVIL ENGINEER		1-8-14 DATE			
3-17-14 PLANS APPROVAL DATE		The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.			



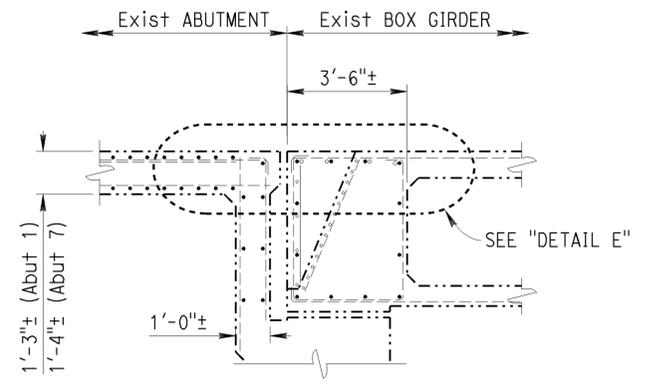
RECONSTRUCTION



EXISTING

DETAIL E

1" = 1'



ABUTMENTS 1 & 7

Br No. 35-0313
3/8" = 1'

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove existing concrete.
 - ① Bend existing reinforcing steel as required to clear new joint seal assembly.
 - ② New joint seal assembly not shown. For joint seal assembly at low side of deck, sidewalk, and concrete median see "JOINT SEAL ASSEMBLY DETAILS No. 4" sheet. For all other details see "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4") No. 1" and "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4") No. 2" sheets.
 - ③ Reinforcing steel located only at girders.
 - ④ 2 existing bars at Abutment 2, 1 existing bar at Abutment 7.
- "b" Reconstructed gap width as determined by the Engineer.

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

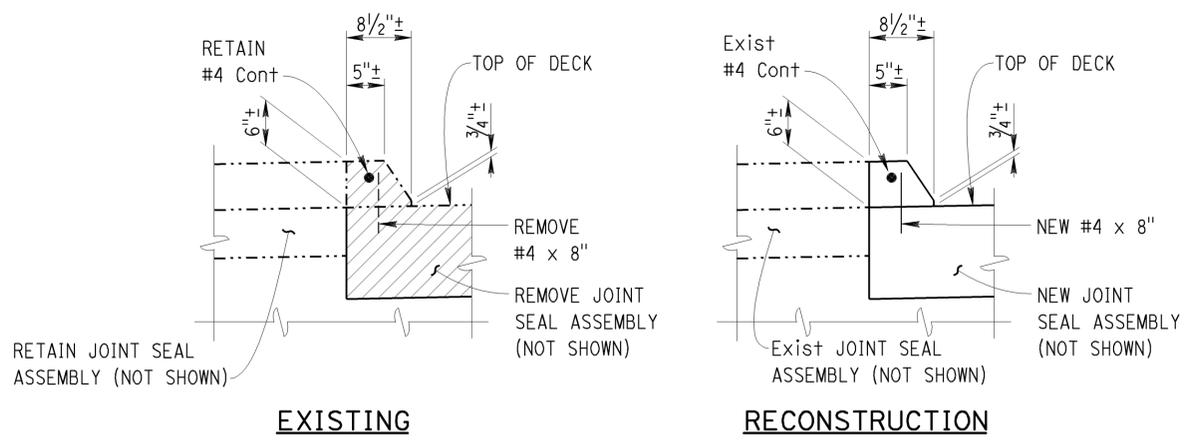
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 1, 92, 101 & 280 BRIDGES
JOINT SEAL ASSEMBLY DETAILS No. 3

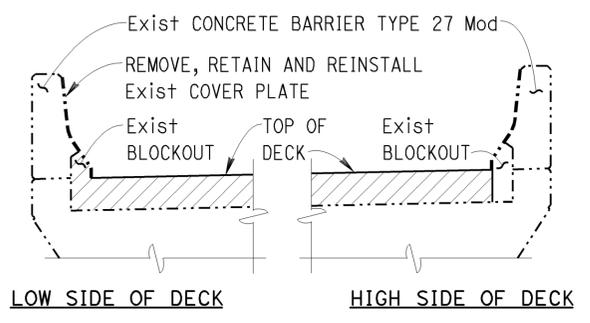
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	36	41
Thomas J. Bolla REGISTERED CIVIL ENGINEER			1-8-14	DATE	
3-17-14 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



MEDIAN CURB BLOCKOUT

Br No. 35-0313
NO SCALE

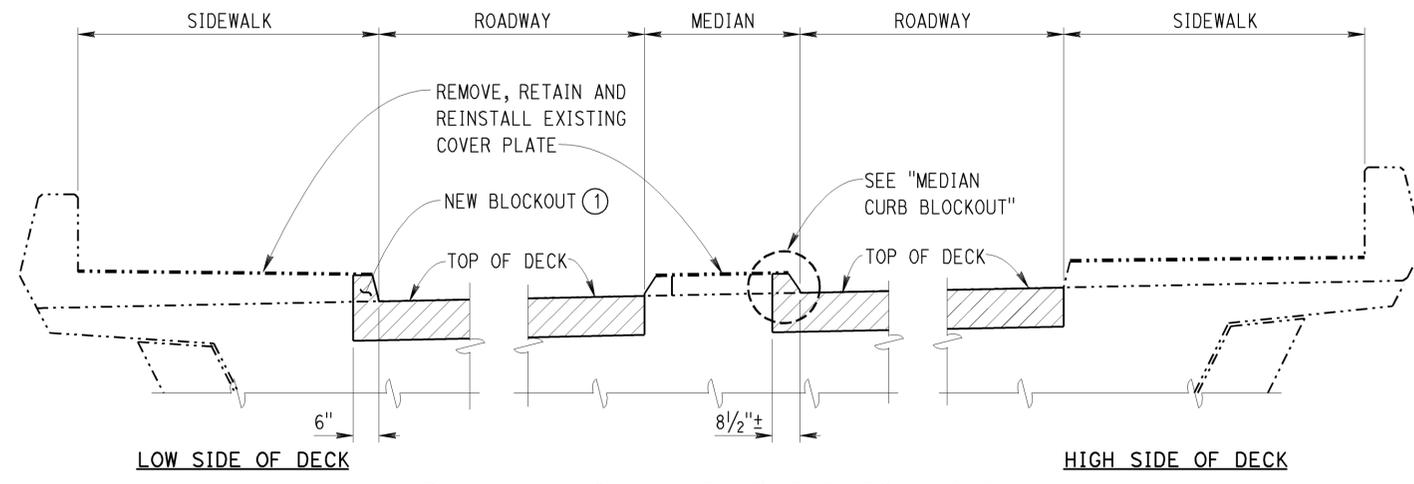
- NOTES:** (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove existing concrete and joint seal assembly.
 - ① Remove portion of existing concrete barrier or median for new joint seal assembly blockout. Retain and reposition any reinforcing steel encountered, as required.
- For joint seal assembly details see "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4") No. 1" and "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4") No. 2" sheets.



Br No. 35-0252L (HINGES NEAR BENTS 9L, 11L, 19L & 30L)
Br No. 35-0252R (HINGE NEAR BENT 32NE)

TEMPORARY DECKING DESIGN LOADING		
MOMENT DEMAND/FOOT (kip-ft/ft)	ANCHOR BOLT SHEAR/FOOT (kip/ft)	ANCHOR BOLT TENSION (kip)
10.6	3.9	4.3

Plate deflection shall not exceed s/300 (s = span of plate).
Maximum anchor bolt spacing = 0'-9".



JOINT SEAL ASSEMBLY AT BARRIER RAILS
NO SCALE

JOINT SEAL ASSEMBLY TABLE								
BRIDGE NAME	BRIDGE NUMBER	JOINT LOCATION		MINIMUM "MR" (INCHES)	Approx LENGTH (FEET)	SKEW	EXISTING WATERSTOP	Approx DEPTH TO CLEAN Exp JOINT (INCHES)
ROUTE 92/101 SEPARATION	35-0252L	SPAN 9	H	2 1/2	101	0°	NO	30
		SPAN 11	H	2	39	0°	NO	30
		SPAN 18	H	2 1/2	43	26°	NO	30
		SPAN 29	H	3	54	0°	NO	30
	35-0252R	SPAN 13SE	H	3	27	0°	NO	30
VINTAGE PARK OC	35-0313	ABUTMENT 1	BW	2 1/2	79	38°	NO	15
		ABUTMENT 7	BW	2	63	7°	NO	15

LEGEND:
H = HINGE
BW = ABUTMENT BACKWALL

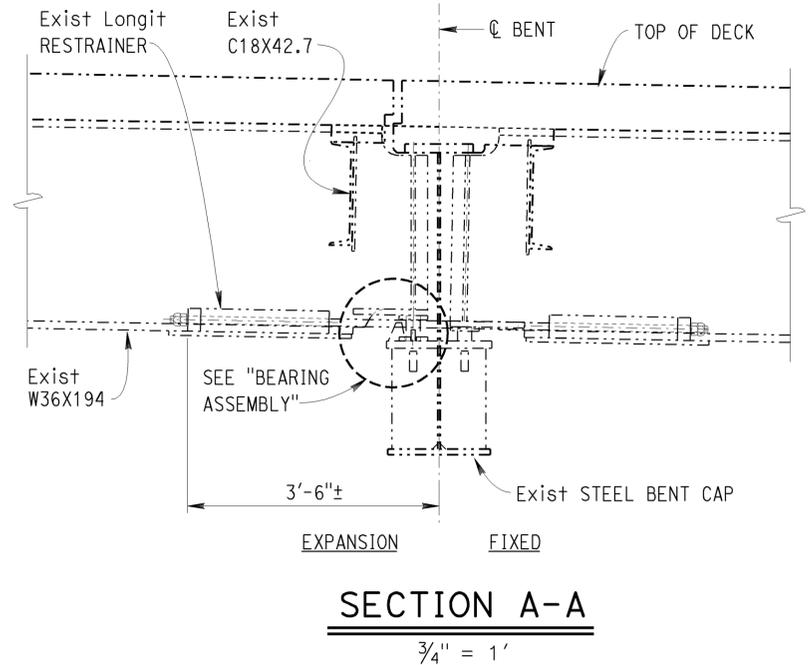
DESIGN BY T. BOLLA DETAILS BY G.F. BIDWELL QUANTITIES BY T. BOLLA	CHECKED FRANZ ESPINOZA/HOAI TRAN CHECKED FRANZ ESPINOZA/HOAI TRAN CHECKED FRANZ ESPINOZA/HOAI TRAN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS POST MILE VARIES	ROUTES 1, 92, 101 & 280 BRIDGES JOINT SEAL ASSEMBLY DETAILS No. 4	UNIT: 3488 PROJECT NUMBER & PHASE: 0412000364 1 CONTRACT NO.: 04-3E4701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES		SHEET 10 OF 15
							5-7-13 5-19-13 5-13-13 11-18-13 1-8-14		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		FILE => 04-3e4701_10dets4.dgn	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	37	41
Thomas J. Bolla REGISTERED CIVIL ENGINEER			1-8-14 DATE		
3-17-14 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>					

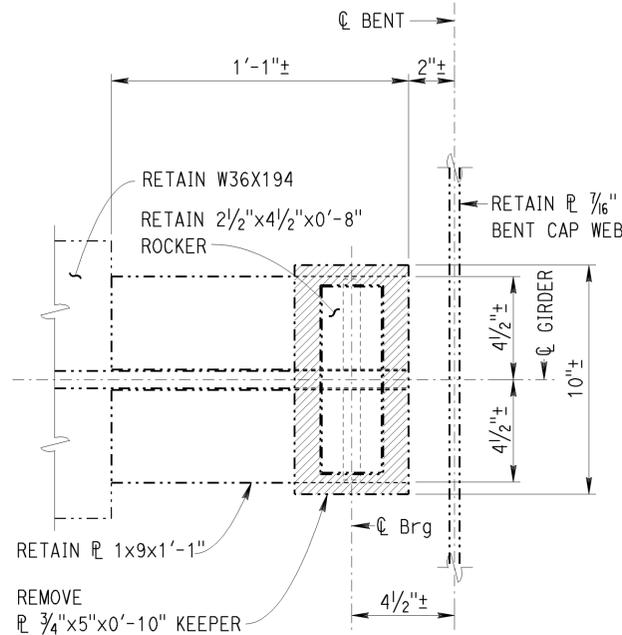
NOTES: (APPLY TO THIS SHEET ONLY)

(GX) Indicates existing girder designation.

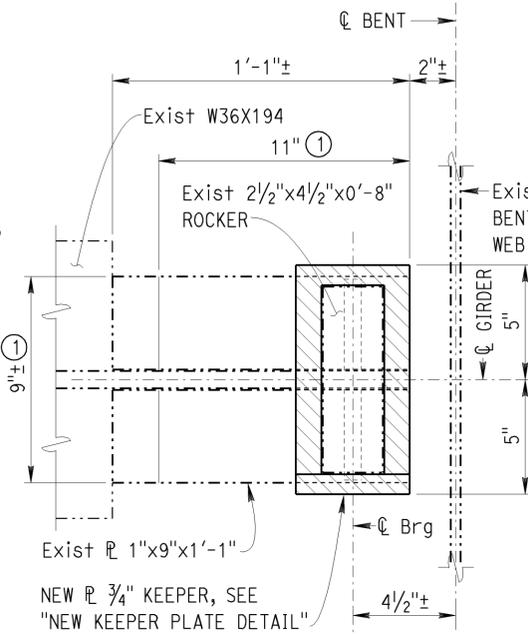
(1) Indicates limits of spot blast clean and paint undercoat top, bottom and sides of girder bottom flange.



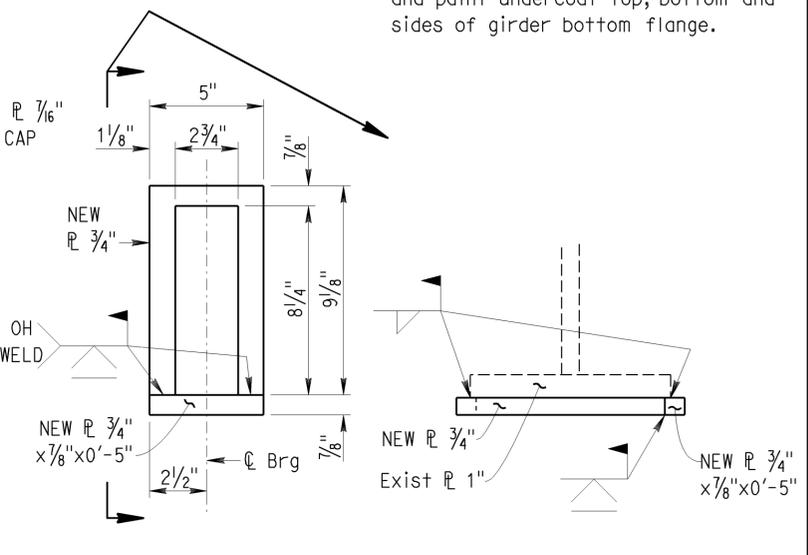
SECTION A-A
3/4" = 1'



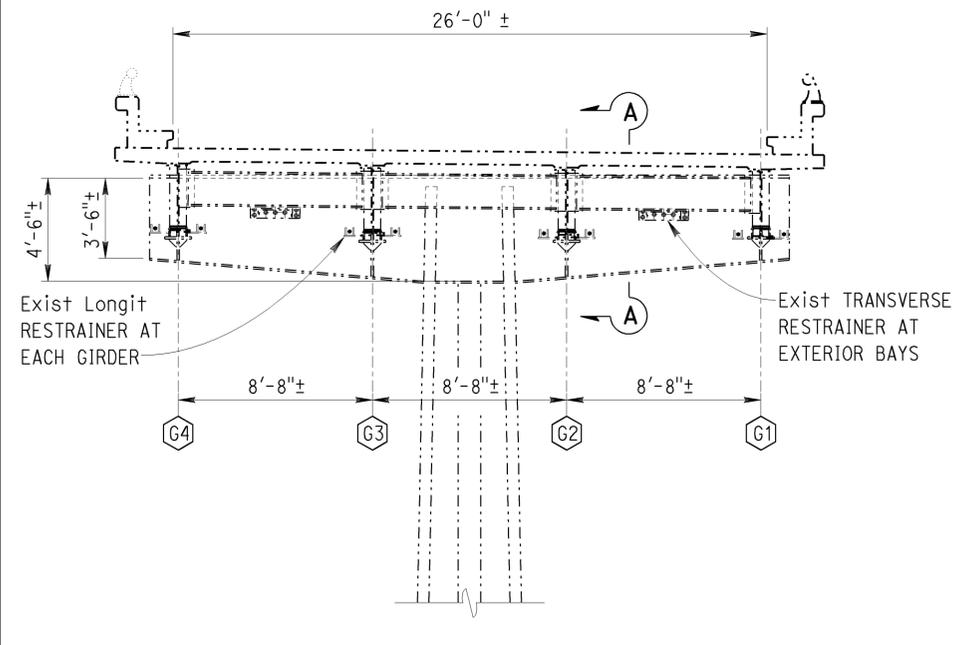
EXISTING SECTION C-C
3" = 1'



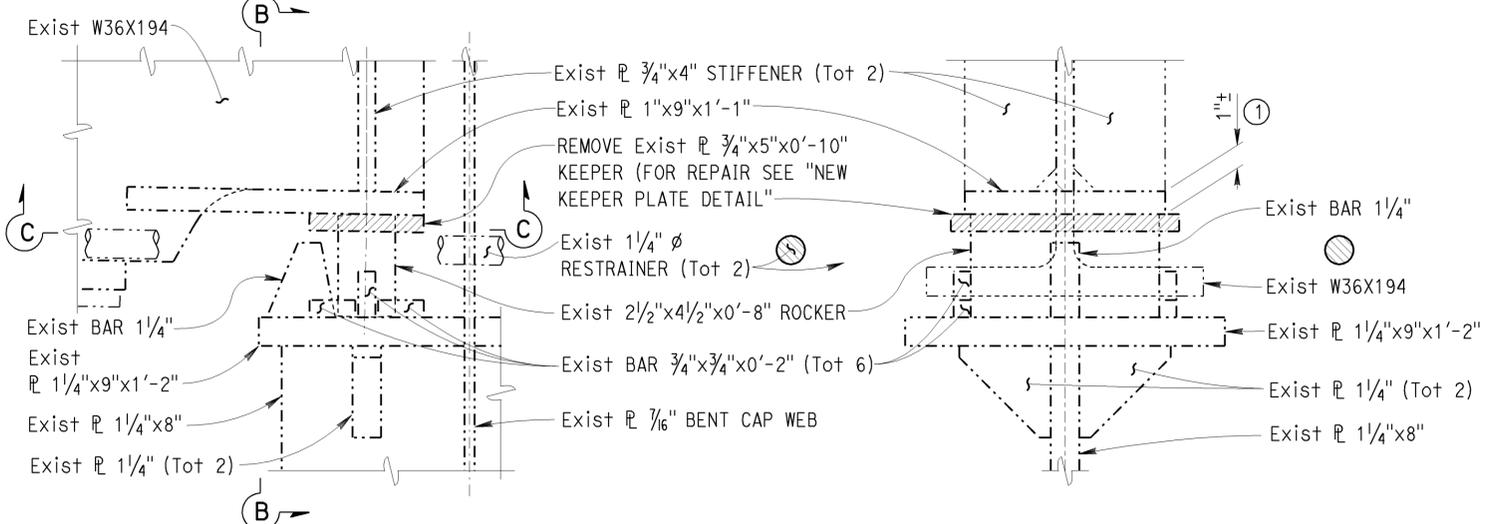
RECONSTRUCTION SECTION C-C
3" = 1'



NEW KEEPER PLATE DETAIL
3" = 1'



BENT 9-16 ELEVATION
LOOKING BACK ON STATION (SOUTH)
Br No. 34-0077
1/4" = 1'



BEARING ASSEMBLY SECTION B-B
3" = 1'

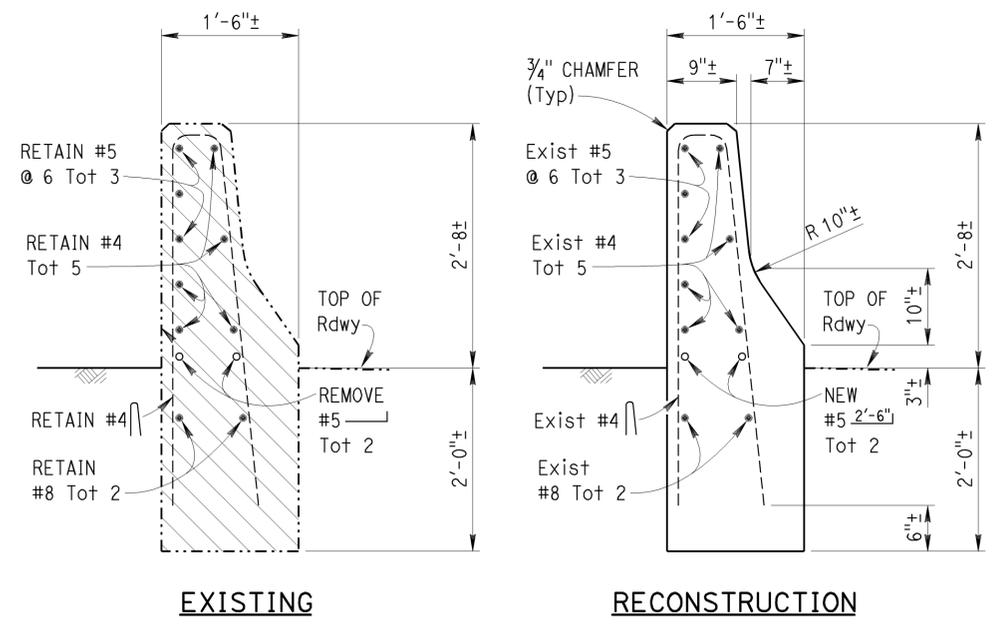
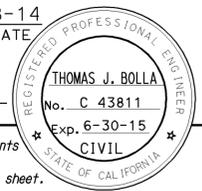
DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

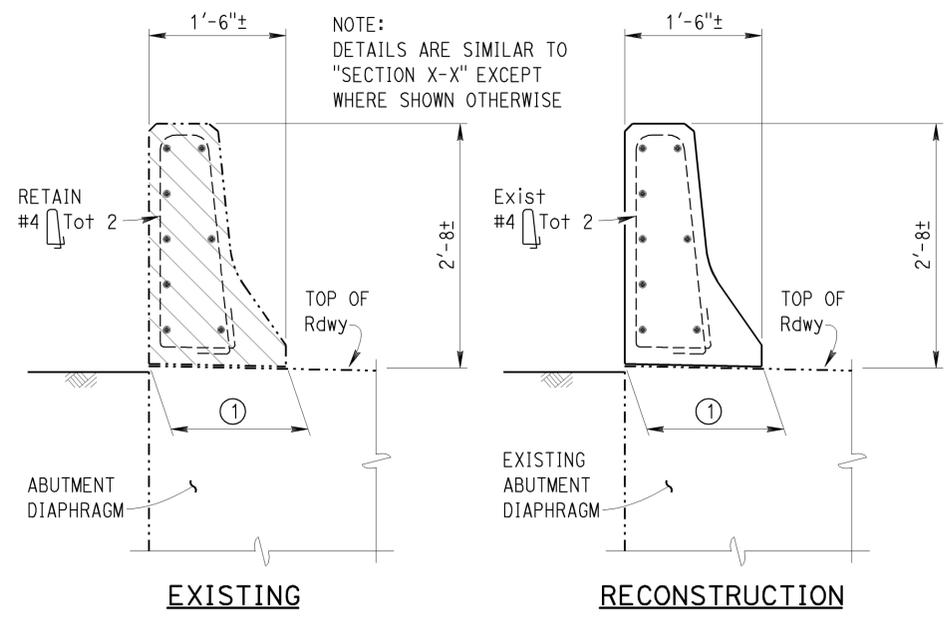
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTES 1, 92, 101 & 280 BRIDGES
BENT 9-16 BEARING REPAIR DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	38	41
Thomas J. Bolla			1-8-14	REGISTERED CIVIL ENGINEER DATE	
3-17-14			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>					

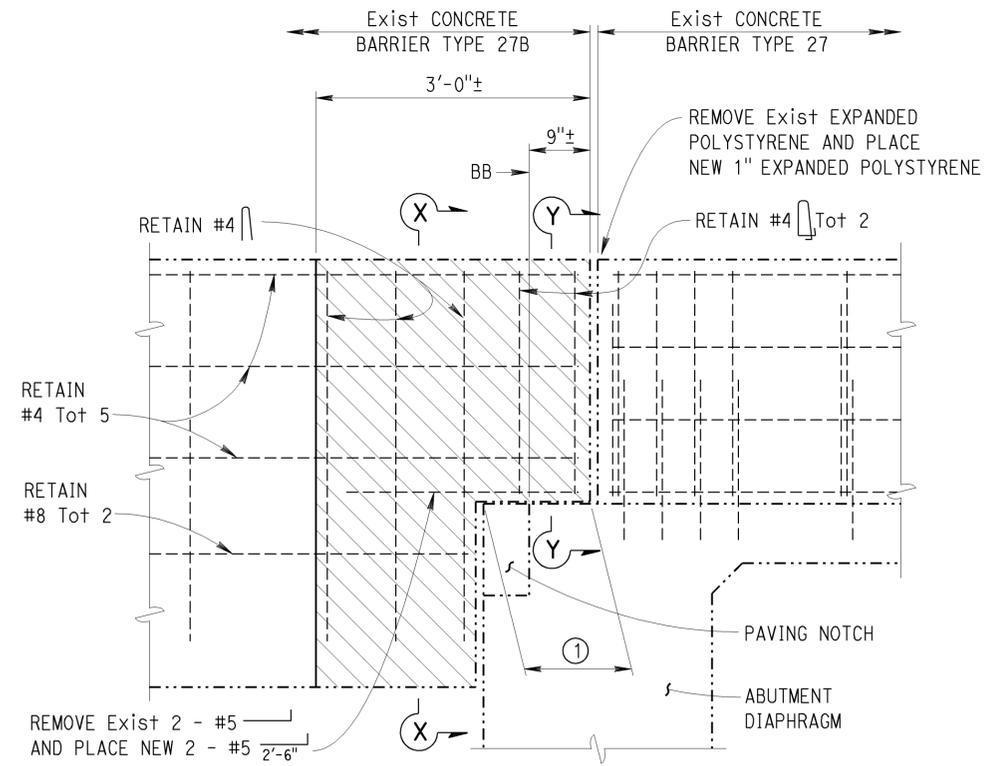


SECTION X-X
1" = 1'

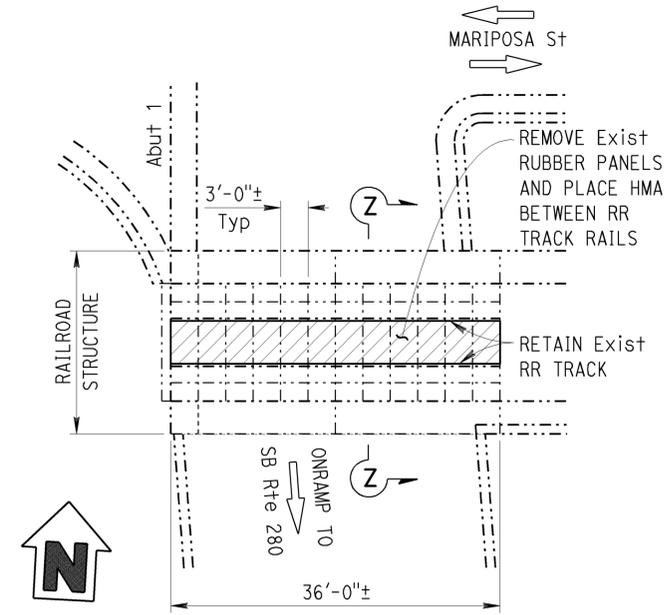


SECTION Y-Y
1" = 1'

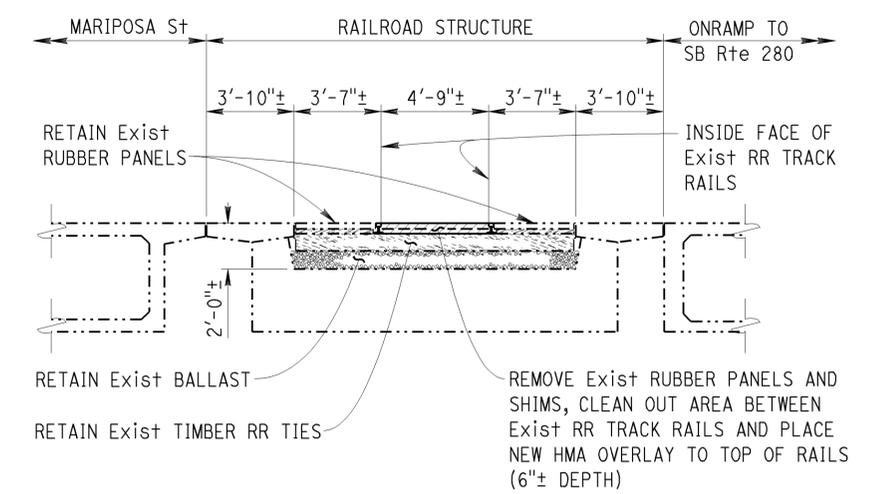
- NOTES:** (APPLY TO THIS SHEET ONLY)
- Indicates limits of remove existing rubber panels and place HMA between abandoned railroad track rails.
 - Indicates limits of bridge removal (portion).
 - ① Indicates limits of remove existing 0.04" sheet metal and 1/4" neoprene strip and place new 0.04" galvanized sheet metal over new 1/4" neoprene strip (coat top of strip with grease) between barrier and top of abutment diaphragm.



PARTIAL ELEVATION W-W AT ABUTMENT 1NE
Br No. 35-0252R
1" = 1'



SPAN 1 PARTIAL PLAN
MARIPOSA St RR Sep/280 SB ONRAMP
Br No. 34-0105
1" = 10'



SECTION Z-Z
1/4" = 1'

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 1, 92, 101 & 280 BRIDGES
MISCELLANEOUS DETAILS

USERNAME => s121511 DATE PLOTTED => 08-JAN-2014 TIME PLOTTED => 13:03

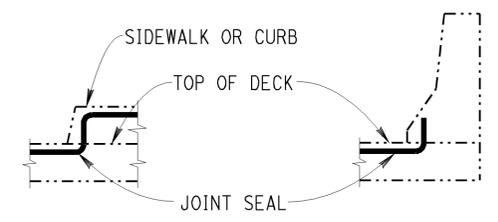
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	39	41
Thomas J. Bolla REGISTERED CIVIL ENGINEER			1-8-14	DATE	
3-17-14 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					

JOINT SEAL TABLE

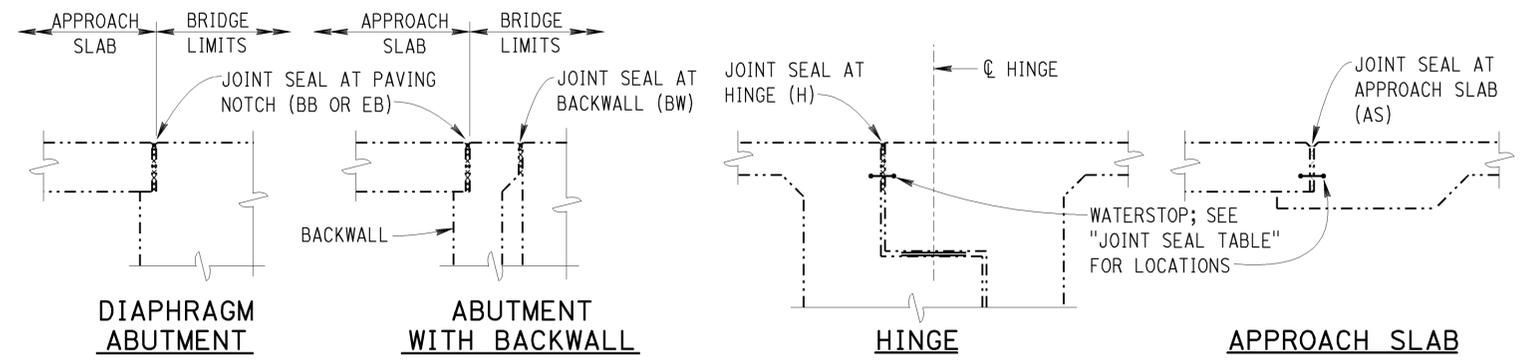
BRIDGE NAME	BRIDGE NUMBER	JOINT LOCATION		MINIMUM MR (INCHES)	Approx LENGTH (FEET)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (INCHES)	JOINT SPALLS		
								APPROXIMATE DEPTH OF JOINT SPALLS (INCHES)	APPROXIMATE WIDTH OF JOINT SPALLS (INCHES)	APPROXIMATE LENGTH OF JOINT SPALLS (FEET)
ROUTE 92/101 SEPARATION	35-0252L	BENT 4L	H	2	64	YES	8	---	---	---
		Abut 9WS	BB	2	28	NO	12	6 *	6 *	4 *
	35-0252R	Abut 1SE	BW	2	27	NO	12	---	---	---
VINTAGE PARK OVERCROSSING	35-0313	ABUTMENT 1	AS	1/2	70	YES	7	---	---	---
			BB	1/2	66	NO	14	---	---	---
		ABUTMENT 7	EB	1/2	71	NO	14	---	---	---
			AS	1/2	75	YES	7	---	---	---

- 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 recalculated by the engineer.
 - W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
 - Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
 - For details not shown see B6-21

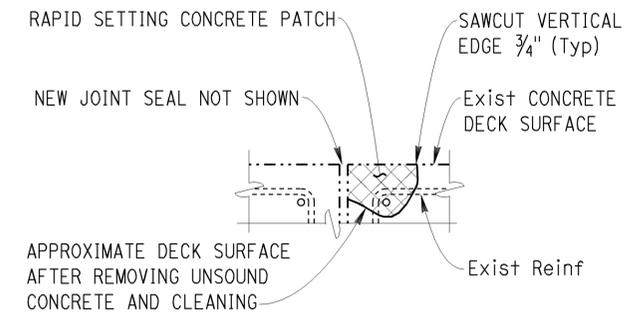
LEGEND:
 AS = APPROACH SLAB JOINT
 BB = PAVING NOTCH AT BEGINNING OF BRIDGE
 BW = ABUTMENT BACKWALL
 EB = PAVING NOTCH AT END OF BRIDGE
 H = HINGE
 * = See "JOINT AND DECK REPAIR DETAIL"



SIDEWALK OR CURB BARRIER RAIL
JOINT SEAL AT LOW SIDE OF DECK
 DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY. FOR USE ONLY WHERE DECK JOINT MATCHES THE BARRIER RAIL JOINT.
 NO SCALE



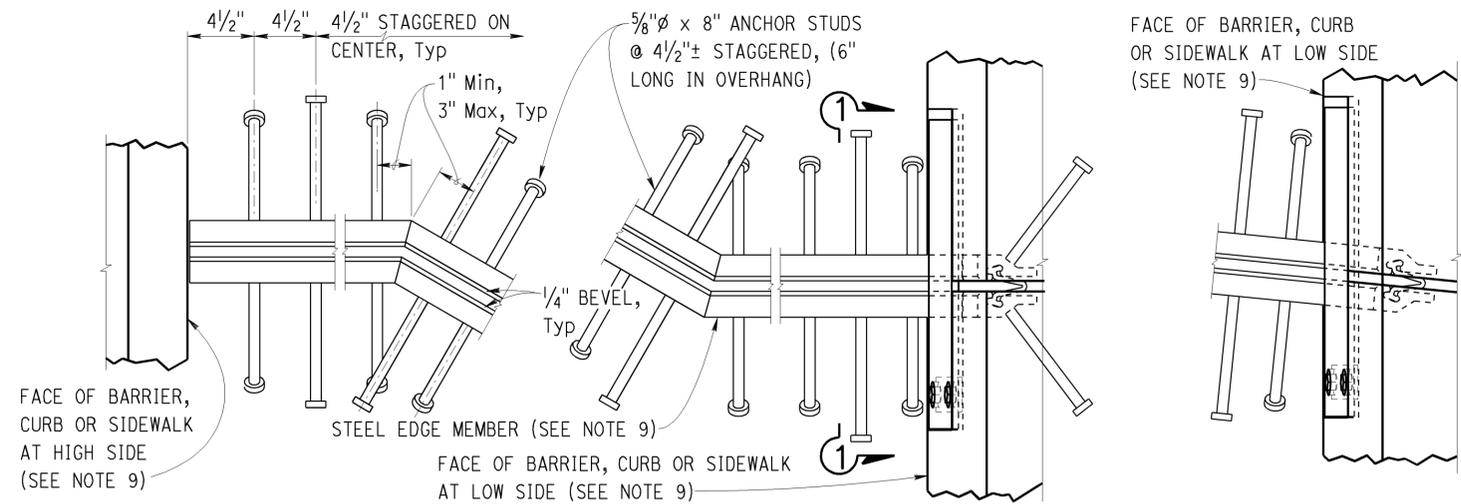
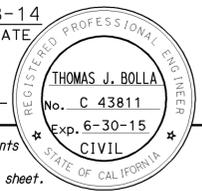
JOINT SEAL LOCATION
 NO SCALE



JOINT AND DECK REPAIR DETAIL
 LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 REINFORCEMENT MAY BE ENCOUNTERED DURING DECK CONCRETE REMOVAL.
 NO SCALE

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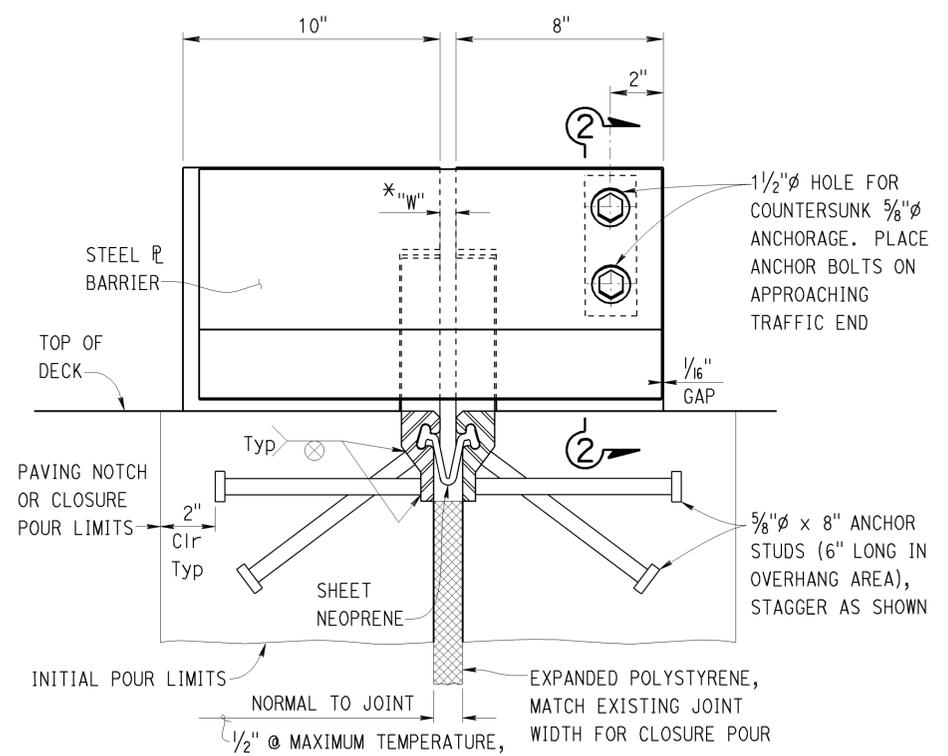
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	40	41
Thomas J. Bolla			1-8-14		
REGISTERED CIVIL ENGINEER			DATE		
3-17-14			PLANS APPROVAL DATE		
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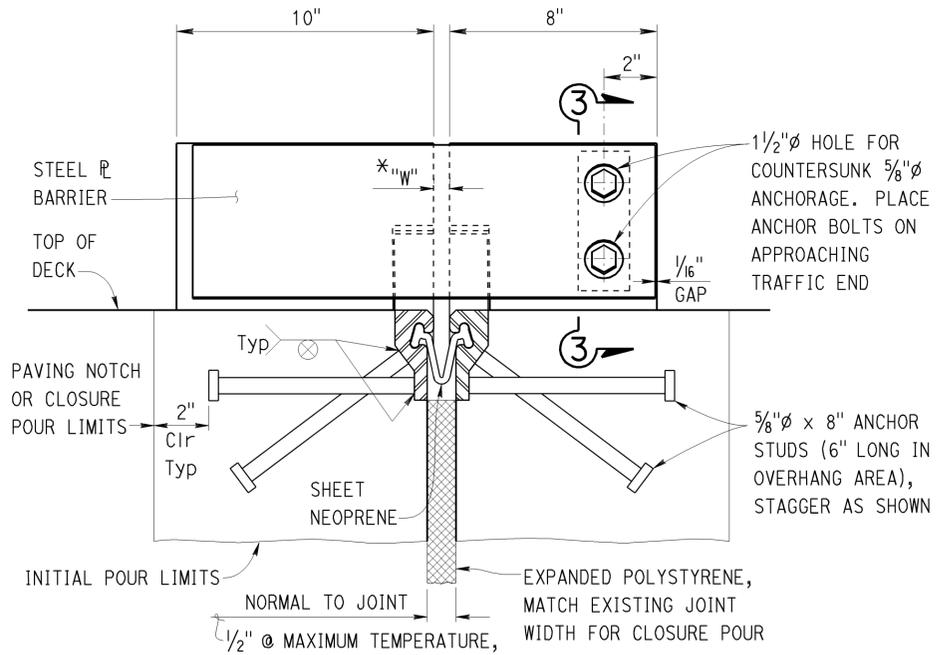
PLAN - SKEW > 20°
NO SCALE

PLAN - SKEW ≤ 20°
NO SCALE

- JOINT SEAL ASSEMBLY NOTES:**
- 1) Alternatively, fillet or full penetration welds may be used at anchor studs.
 - 2) Alternate types of anchor studs may be permitted subject to the approval by the Engineer.
 - 3) Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour shall not be placed until final deck surface is within the tolerances specified.
 - 4) Use joint at crown of roadway, at any change in transverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication.
 - 5) Sheet Neoprene shall be fabricated in one continuous piece and shall be fabricated to bend around corners. Field splices of the neoprene are not allowed.
 - 6) Insert assembly or expansion anchorage for 5/8" diameter x 1 3/4" bolts. Use installation bolts extended 1/2" minimum past nut and coat with bond breaker, after concrete has cured, remove installation bolts, install A325 bolts and sheet neoprene.
 - 7) Sidewalk Detail similar to Barrier Detail on low side at both sides if the roadway is crowned or if the difference in elevation between the ends of the seal is 0.5' or less.
 - 8) a_c, a_s are the thermal expansion coefficients for concrete and steel respectively.
 - 9) See "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4'') No. 2" sheet for steel edge member and joint seal assembly at high and low sides of deck details.



SECTION 1-1 AT CONCRETE BARRIER
NO SCALE



SECTION 1-1 AT CURB OR SIDEWALK
NO SCALE

NOTE: SEE "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4'') No. 2" SHEET FOR "SECTION 2-2" AND "SECTION 3-3"

* TO SET MINIMUM JOINT OPENING "W"

$$"W" = \begin{cases} \frac{1}{2} + [(Max \text{ Str temperature in } F^\circ) - (actual \text{ Str temperature in } F^\circ)] * (a_c \text{ or } a_s) (12) (\text{contributory L in feet}) \\ \frac{1}{2} \text{ Minimum} \\ a_c = 0.0000060 \\ a_s = 0.0000065 \end{cases}$$

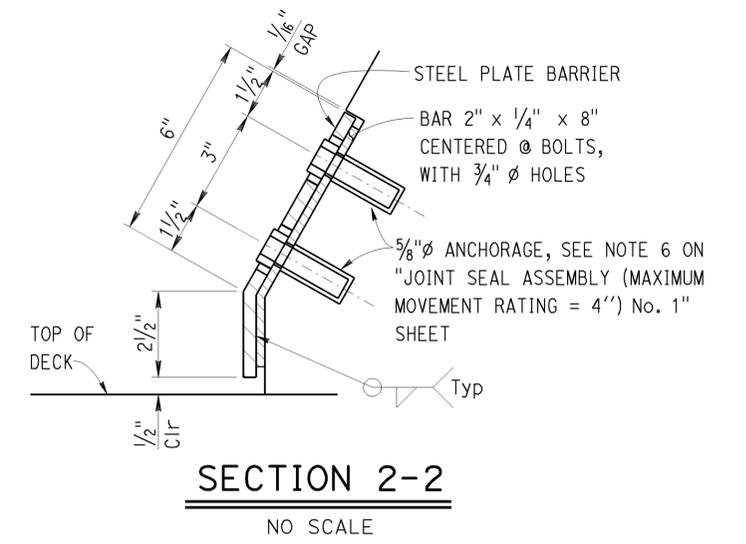
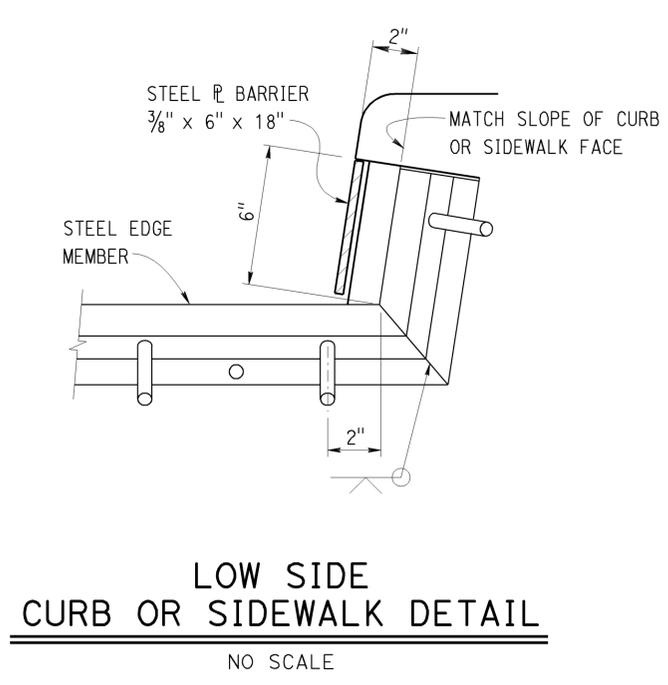
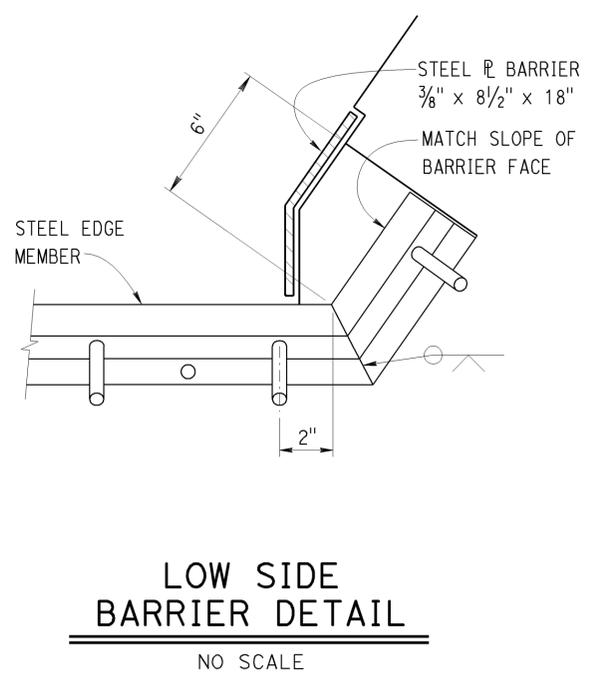
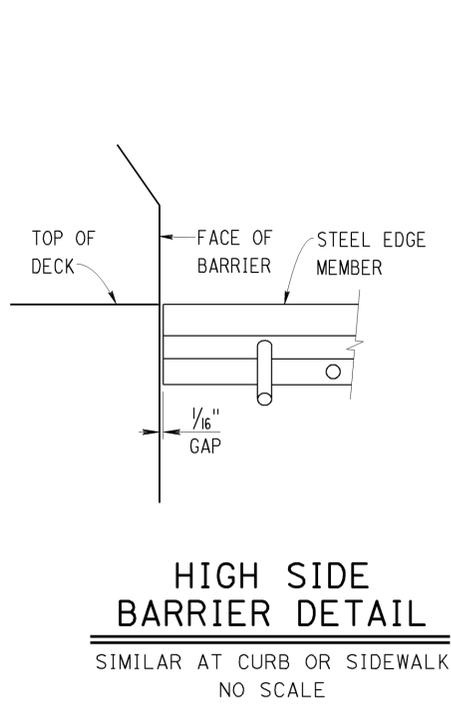
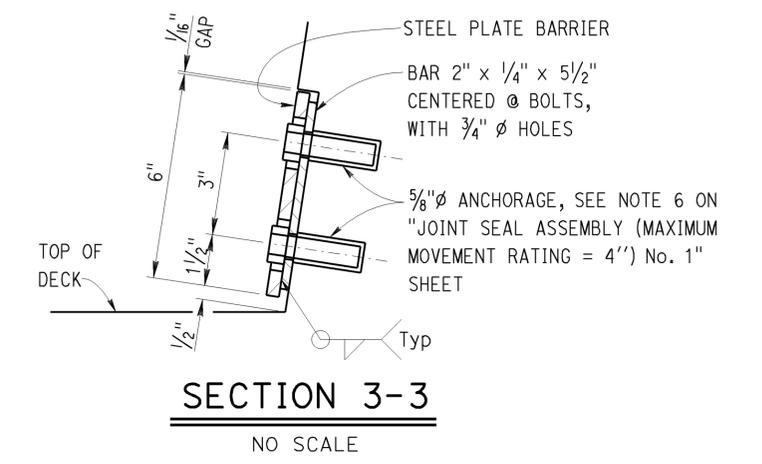
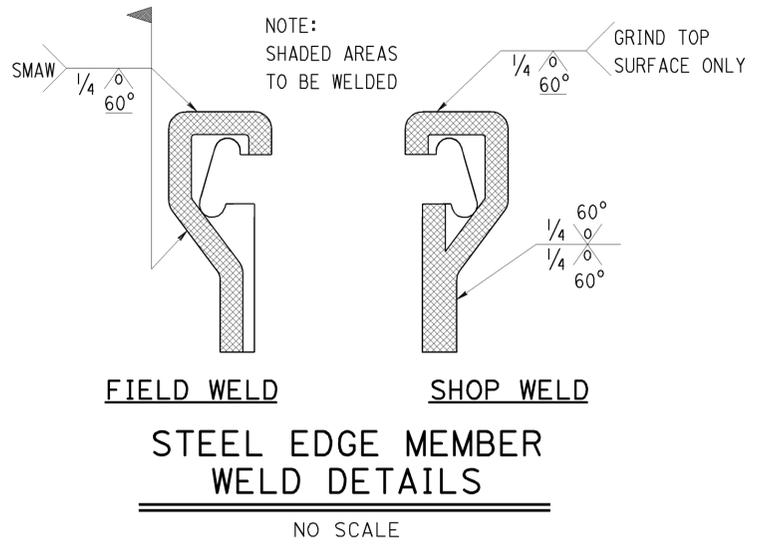
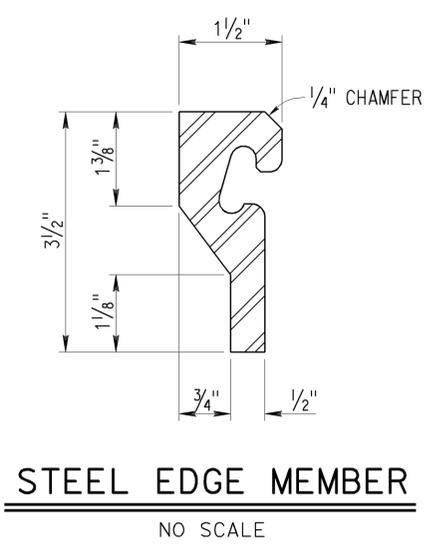
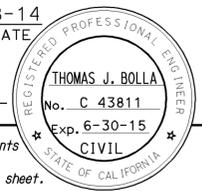
DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA/HOAI TRAN
DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA/HOAI TRAN
QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA/HOAI TRAN

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTES 1, 92, 101 & 280 BRIDGES
JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4'') No. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM, SF	1, 92, 101, 280	Var	41	41
Thomas J. Bolla REGISTERED CIVIL ENGINEER			1-8-14 DATE		
			3-17-14 PLANS APPROVAL DATE		
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STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY T. BOLLA	CHECKED FRANZ ESPINOZA/HOAI TRAN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTES 1, 92, 101 & 280 BRIDGES
	DETAILS	BY G.F. BIDWELL	CHECKED FRANZ ESPINOZA/HOAI TRAN			POST MILE		
	QUANTITIES	BY T. BOLLA	CHECKED FRANZ ESPINOZA/HOAI TRAN					JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4") No. 2
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 0412000364 1	CONTRACT NO.: 04-3E4701	DISREGARD PRINTS BEARING EARLIER REVISION DATES
								REVISION DATES
								5-7-13 5-19-13 5-13 11-18-13 1-8-14
								SHEET 15 OF 15

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