

INDEX OF PLANS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	TEMPORARY WATER POLLUTION CONTROL QUANTITIES
3 - 11	CONSTRUCTION AREA SIGNS
12	PAVEMENT DELINEATION QUANTITIES
13 - 18	REVISED STANDARD PLANS
	STRUCTURE PLANS
19 - 24	GENERAL PLANS
25	JOINT SEAL TABLE AND DETAILS

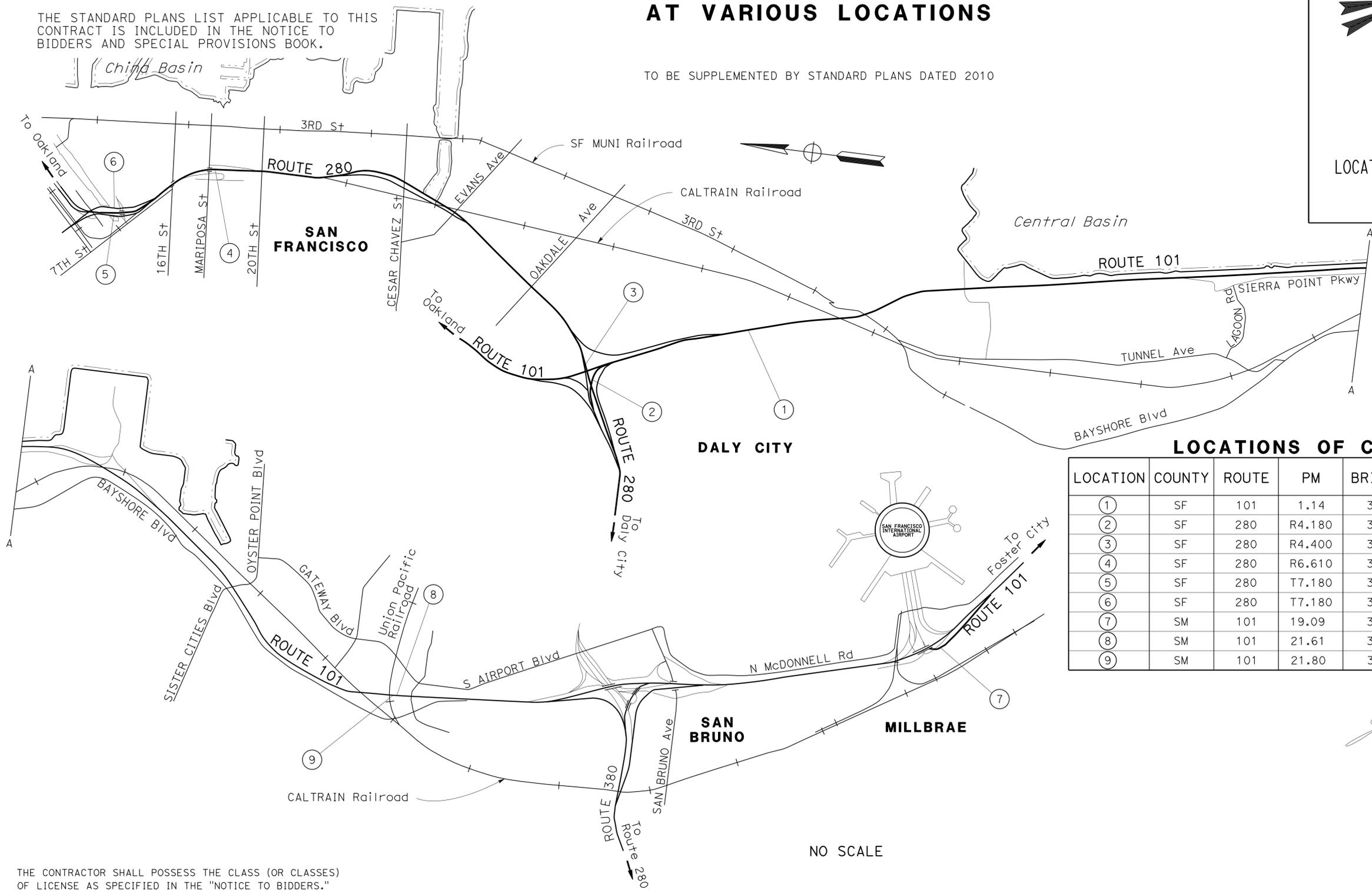
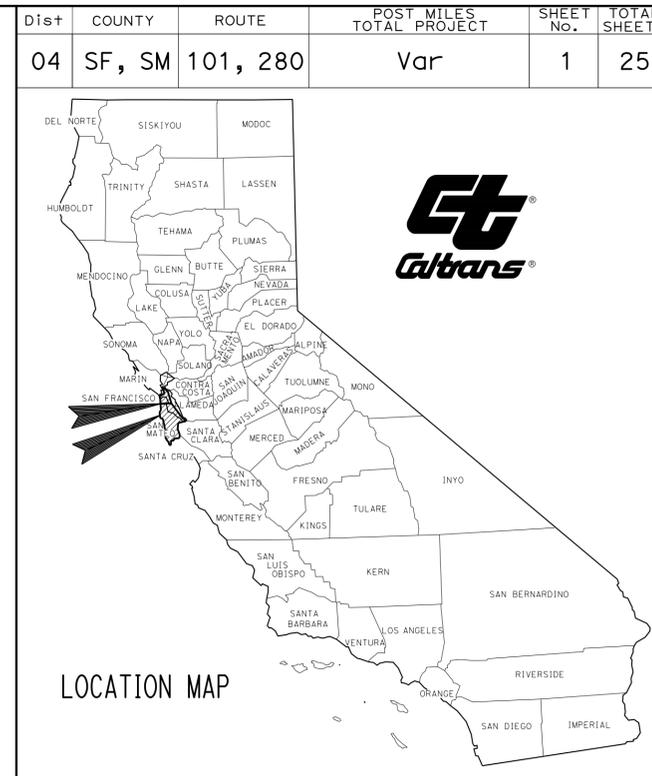
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY

IN SAN FRANCISCO AND SAN MATEO COUNTIES  
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATIONS OF CONSTRUCTION

LOCATION	COUNTY	ROUTE	PM	BRIDGE No.	BRIDGE NAME
①	SF	101	1.14	34 0104	BAYSHORE Blvd VIADUCT
②	SF	280	R4.180	34 0131L	280/101 INTERCHANGE - SB280 (AU LINE)
③	SF	280	R4.400	34 0046	SOUTHERN FREEWAY VIADUCT
④	SF	280	R6.610	34 0100	CHINA BASIN VIADUCT
⑤	SF	280	T7.180	34 0123L	CHINA BASIN VIADUCT ON-RAMP
⑥	SF	280	T7.180	34 0123R	CHINA BASIN VIADUCT OFF-RAMP
⑦	SM	101	19.09	35 0274K	SFO AIRPORT-S101 ON-RAMP SEPARATION (DOMESTIC)
⑧	SM	101	21.61	35 0118	COLMA CREEK
⑨	SM	101	21.80	35 0121	SOUTH SF BELT RAILWAY OH

PROJECT MANAGER  
RAMSES SARGISS

DESIGN MANAGER  
RAMSES SARGISS

*John C. Hemingway* 2-17-16  
PROJECT ENGINEER, REGISTERED CIVIL ENGINEER DATE

April 11, 2016  
PLANS APPROVAL DATE

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

CONTRACT No.	04-2J2604
PROJECT ID	0414000469

DATE PLOTTED => 14-APR-2016 TIME PLOTTED => 09:03 04-11-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY

BORDER LAST REVISED 7/2/2010

USERNAME => s128787  
 DGN FILE => 0414000469gd001.dgn

RELATIVE BORDER SCALE IS IN INCHES



UNIT 0786

PROJECT NUMBER & PHASE

04140004691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	2	25

 2-22-16  
 REGISTERED CIVIL ENGINEER DATE  
 4-11-16  
 PLANS APPROVAL DATE



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

**TEMPORARY WATER POLLUTION CONTROL QUANTITY**

ITEM	UNIT	POST MILE	QUANTITY
TEMPORARY DRAINAGE INLET PROTECTION	EA	Var	53

**TEMPORARY WATER POLLUTION CONTROL QUANTITIES**  
**WPCQ-1**

LAST REVISION | DATE PLOTTED => 14-APR-2016  
 03-29-16 | TIME PLOTTED => 09:03

FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG
CALCULATED/DESIGNED BY	CHECKED BY
ULICES VEGA	RAJESH OBEROI
REVISOR	DATE
UV	3-1-16



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	3	25

*Rajesh Oberoi* 3-22-16  
 REGISTERED CIVIL ENGINEER DATE  
 4-11-16  
 PLANS APPROVAL DATE

**REGISTERED PROFESSIONAL ENGINEER**  
 Rajesh Oberoi  
 No. 46046  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

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

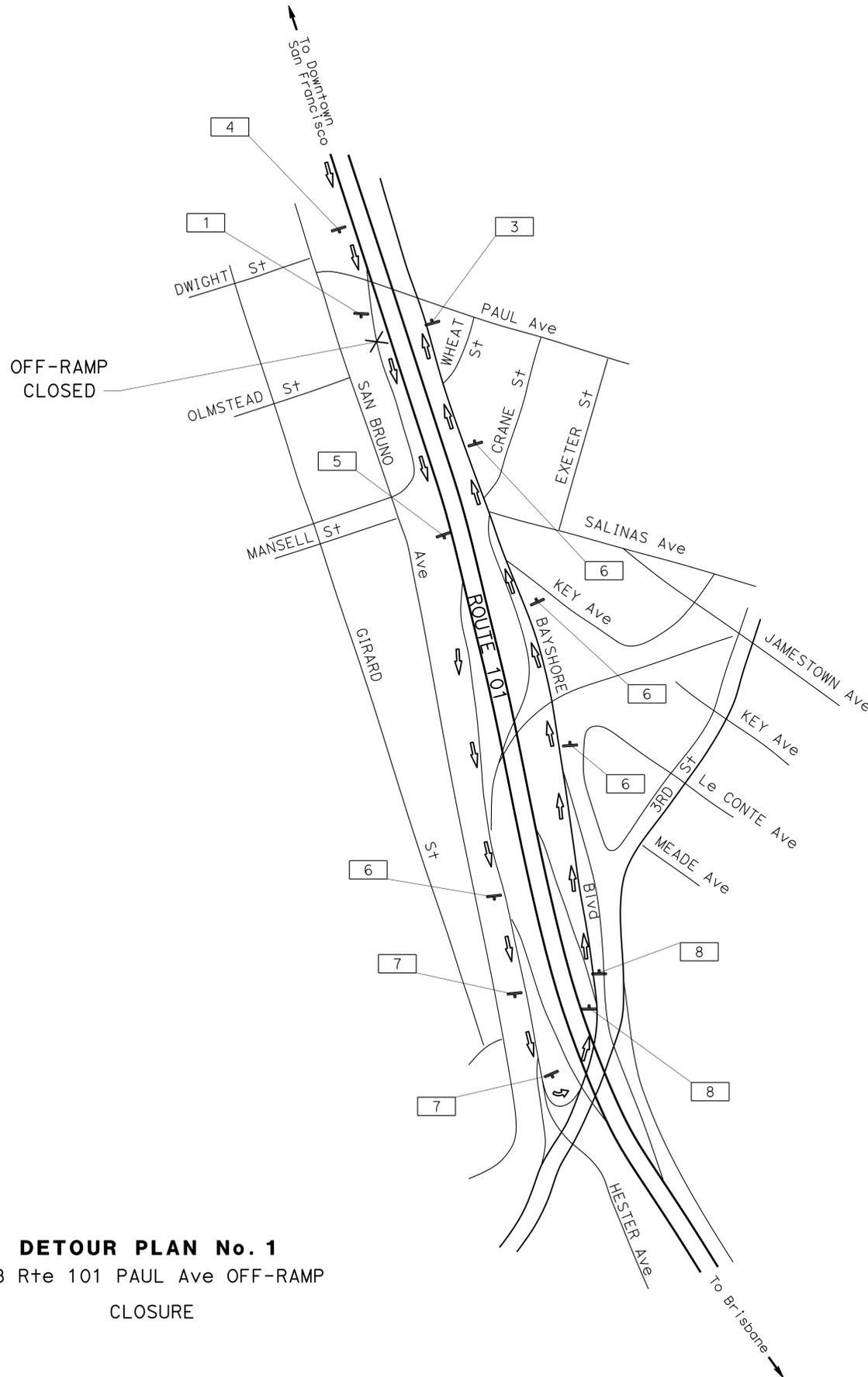
- LEGEND:**
- No. CONSTRUCTION AREA SIGN NUMBER
- NOTES:**
1. EXACT LOCATION AND POSITION OF SIGNS TO BE DETERMINED BY THE ENGINEER.
  2. EXACT SIZE OF WOOD POST TO BE DETERMINED BY THE ENGINEER.

**CONSTRUCTION AREA SIGNS**  
 NO SCALE  
**CS-1**

LAST REVISION DATE PLOTTED => 14-APR-2016 03-29-16 TIME PLOTTED => 09:03

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR		CALCULATED/DESIGNED BY	REVISOR	DATE
	ROLAND AU-YEUNG				
CALtrans	TRAFFIC		CHECKED BY	ULICES VEGA	DATE
				RAJESH OBEROI	3-1-16
				UV	3-1-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	4	25
<i>Rajesh Oberoi</i> 3-22-16 REGISTERED CIVIL ENGINEER DATE			4-11-16 PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



**DETOUR PLAN No. 1**  
 SB Rte 101 PAUL Ave OFF-RAMP  
 CLOSURE

**DETOUR VIA**  
 TAKE SB 101 THIRD ST OFF-RAMP;  
 LEFT TURN TO BAYSHORE BLVD

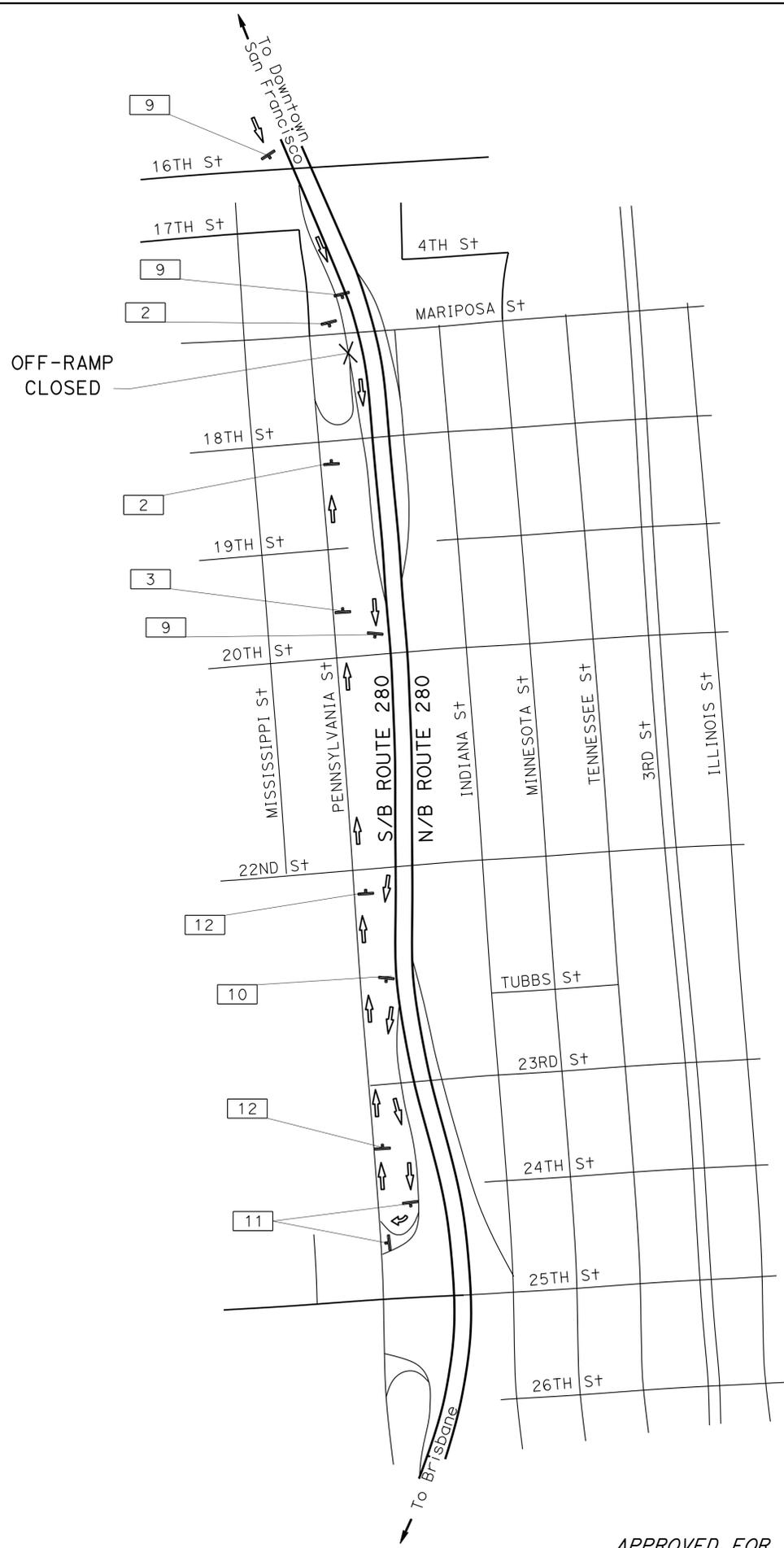
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

**CONSTRUCTION AREA SIGNS**  
 NO SCALE

**CS-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>Caltrans</b> TRAFFIC	FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG	CALCULATED-DESIGNED BY	CHECKED BY	ULICES VEGA	REVISOR	DATE	REVISION
					RAJESH OBEROI	UV	3-1-16	



**DETOUR VIA**

EXIT TO 25TH St / CESAR CHAVEZ St OFF-RAMP  
RIGHT TO PENNSYLVANIA Ave,  
ARRIVE 18TH St

**DETOUR PLAN No. 2**  
SB ROUTE 280 18TH St OFF-RAMP  
CLOSURE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET CS-1

**CONSTRUCTION AREA SIGNS**  
NO SCALE

**CS-3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	5	25
<i>Rajesh Oberoi</i> 3-22-16 REGISTERED CIVIL ENGINEER DATE				4-11-16 PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

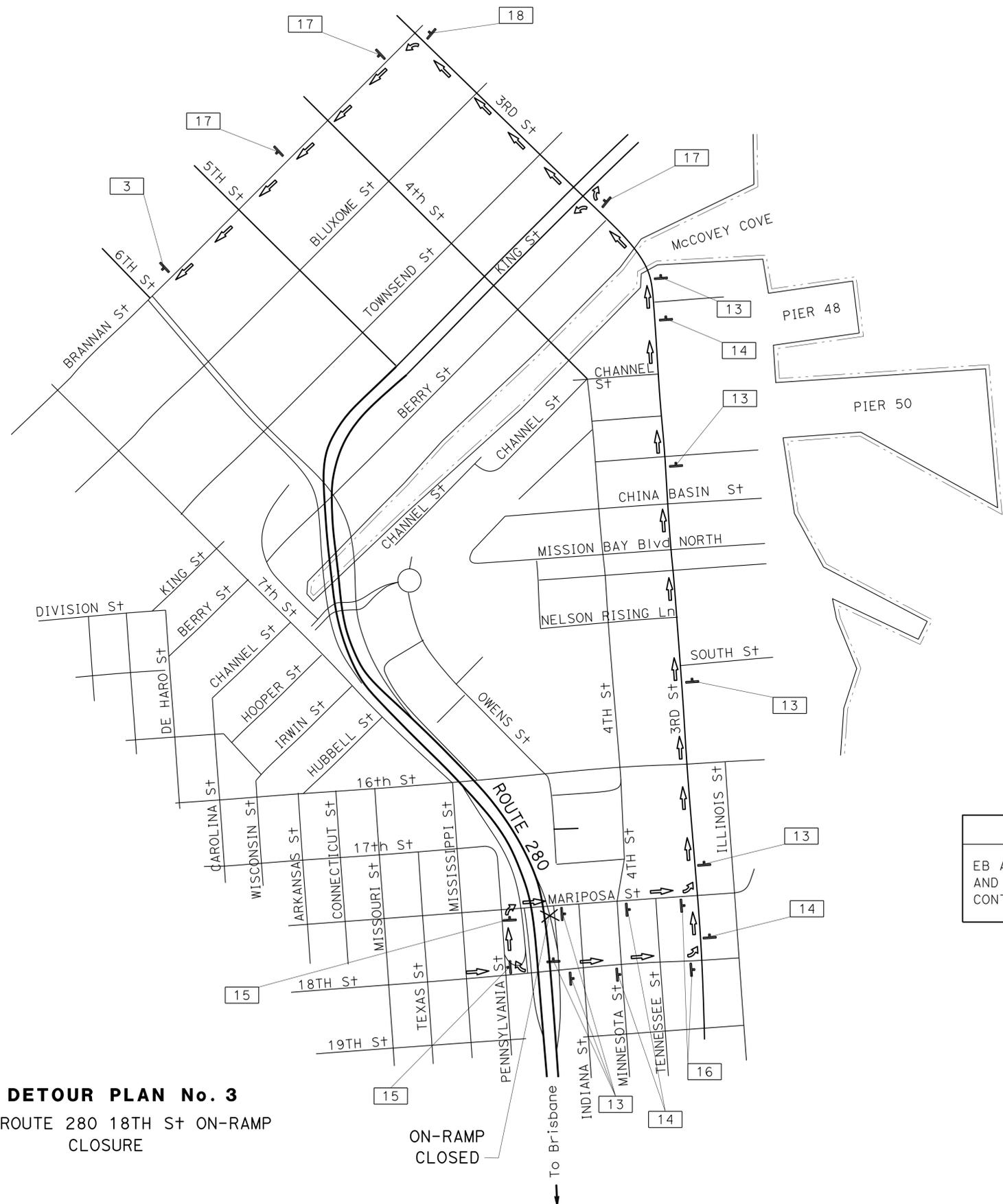


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	6	25

Rajesh Oberoi 3-22-16  
 REGISTERED CIVIL ENGINEER DATE  
 4-11-16  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Rajesh Oberoi  
 No. 46046  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

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



**DETOUR PLAN No. 3**  
 NB ROUTE 280 18TH ST ON-RAMP CLOSURE

**DETOUR VIA**  
 EB AND WB 18TH ST; NB 3RD ST; TO WB KING ST;  
 AND FOR TRAFFIC TO BRANNAN ST AND 6TH ST  
 CONTINUE TO 3RD ST TO BRANNAN ST

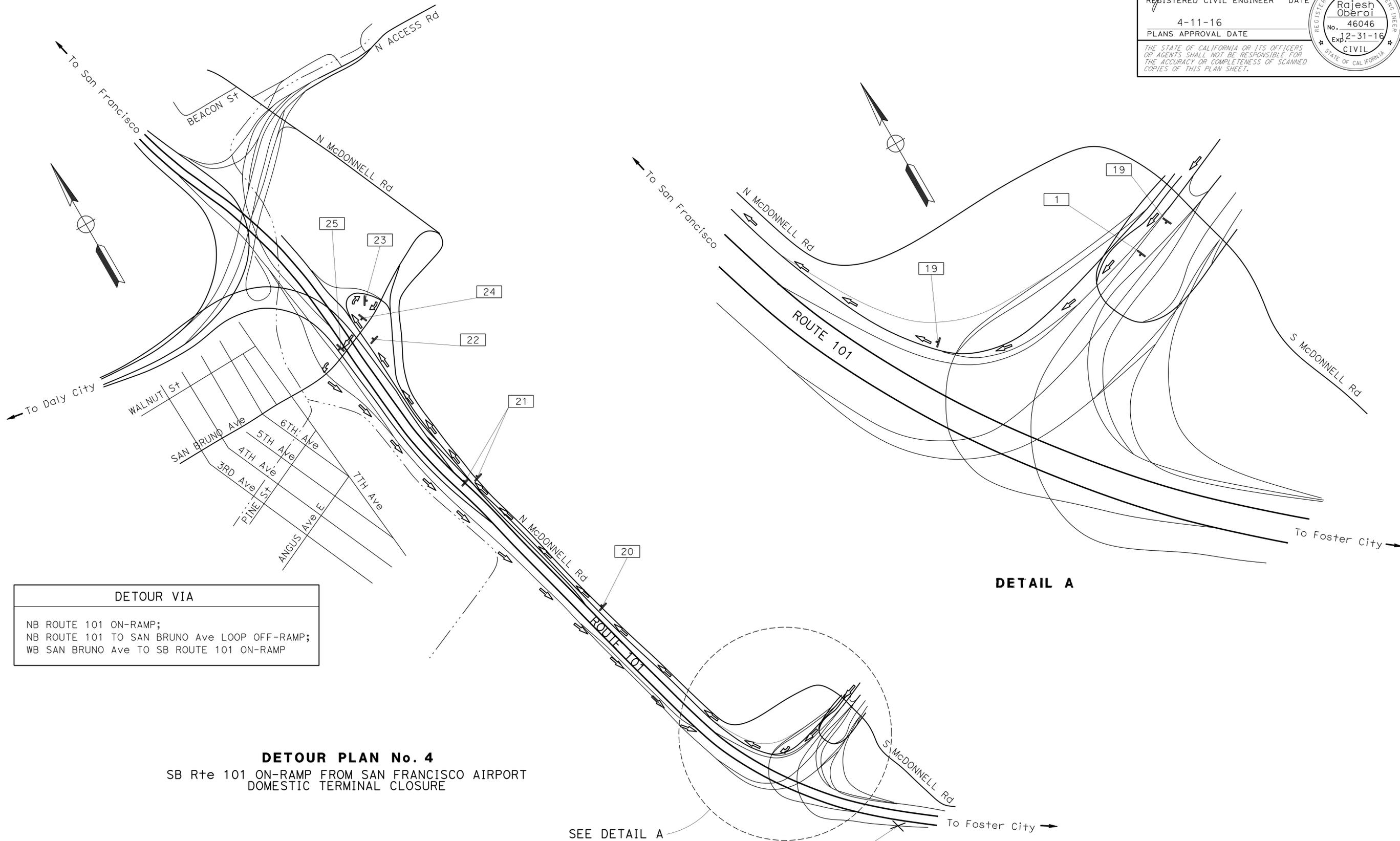
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

**CONSTRUCTION AREA SIGNS**  
 NO SCALE

**CS-4**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	7	25
Rajesh Oberoi			3-22-16	DATE	
REGISTERED CIVIL ENGINEER			PLANS APPROVAL DATE		
4-11-16			No. 46046		
Exp. 2-31-16			CIVIL		
<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 VIA**

NB ROUTE 101 ON-RAMP;  
 NB ROUTE 101 TO SAN BRUNO Ave LOOP OFF-RAMP;  
 WB SAN BRUNO Ave TO SB ROUTE 101 ON-RAMP

**DETOUR PLAN No. 4**  
 SB Rte 101 ON-RAMP FROM SAN FRANCISCO AIRPORT DOMESTIC TERMINAL CLOSURE

**DETAIL A**

SEE DETAIL A

ON-RAMP CLOSED

**CONSTRUCTION AREA SIGNS**  
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

**CS-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG  
 CALCULATED/DESIGNED BY: [blank]  
 CHECKED BY: [blank]  
 ULICES VEGA  
 RAJESH OBEROI  
 REVISOR: UV  
 DATE: 3-1-16

x  
x  
x  
x  
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x  
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x  
x

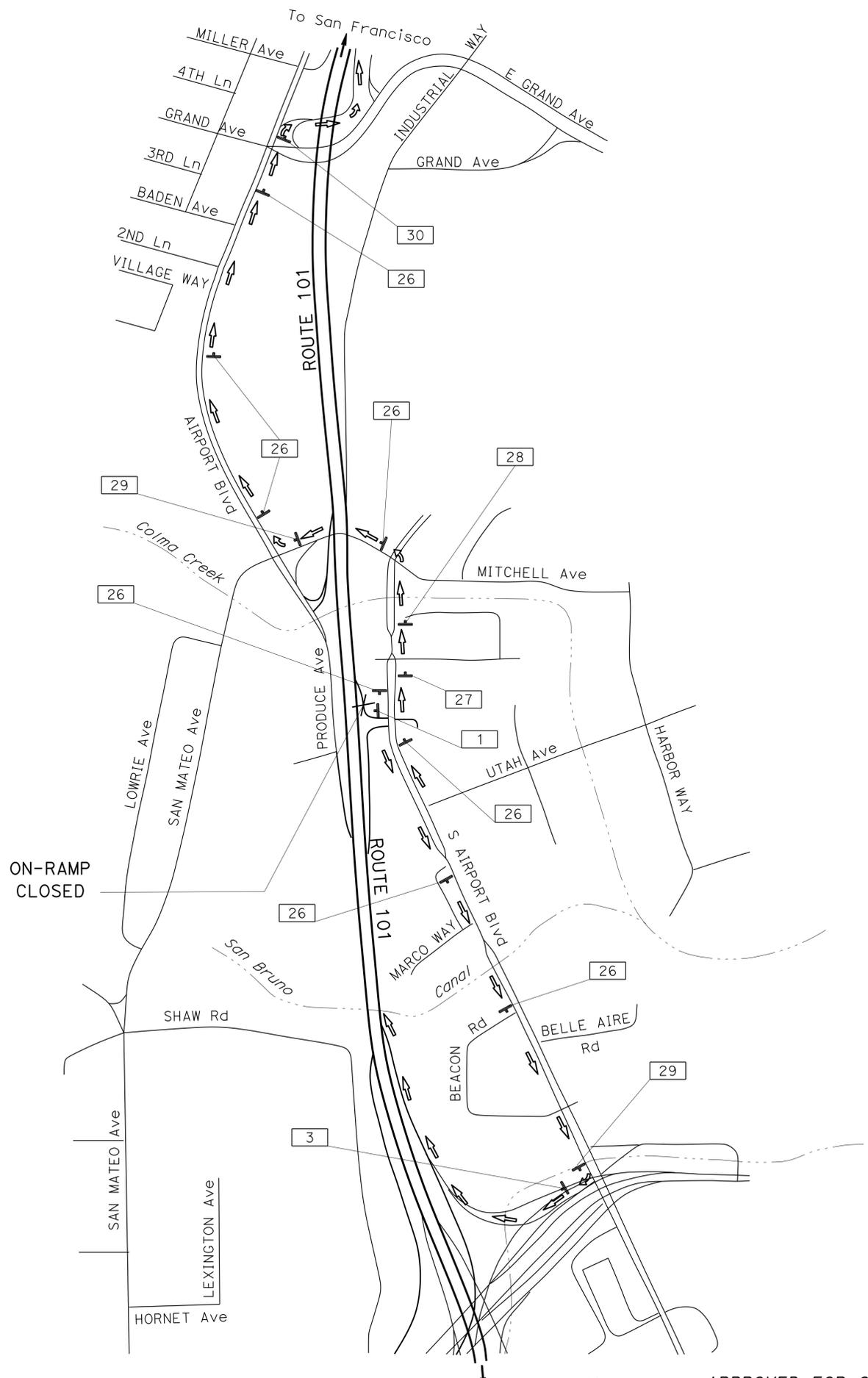
LAST REVISION DATE PLOTTED => 14-APR-2016  
 03-29-16 TIME PLOTTED => 09:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	8	25

*Rajesh Oberoi* 3-22-16  
 REGISTERED CIVIL ENGINEER DATE  
 4-11-16  
 PLANS APPROVAL DATE

**Rajesh Oberoi**  
 No. 46046  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

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



**DETOUR VIA**

(1) NB S AIRPORT Blvd; WB S AIRPORT Blvd;  
 NB AIRPORT Blvd; NB ROUTE 101 ON-RAMP  
 (2) SB S AIRPORT Blvd; NB ROUTE 101 ON-RAMP

**DETOUR PLAN No. 5**  
 NB ROUTE 101 ON-RAMP FROM S AIRPORT Blvd  
 CLOSURE

**CONSTRUCTION AREA SIGNS**  
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

**CS-6**

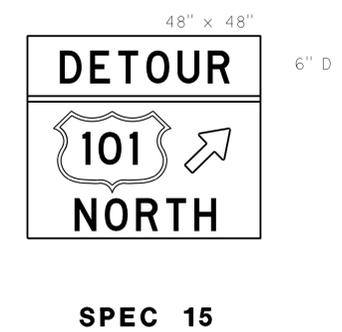
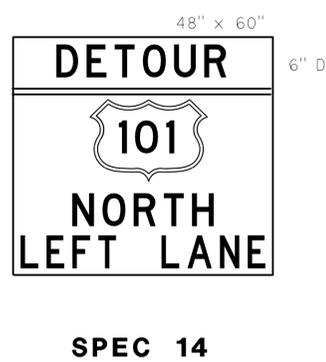
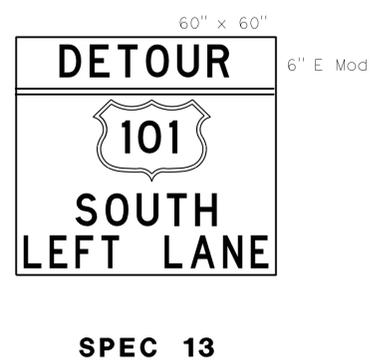
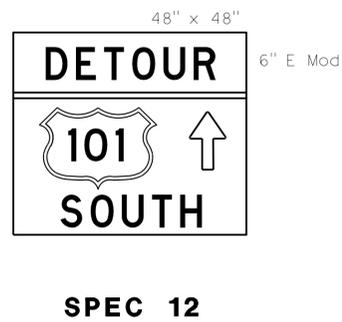
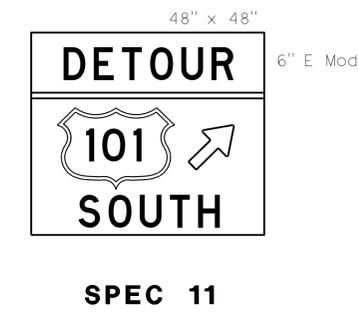
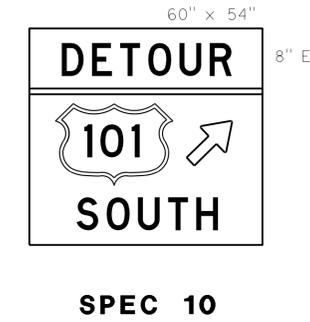
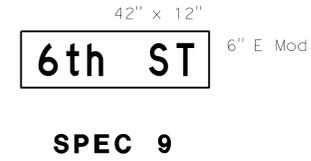
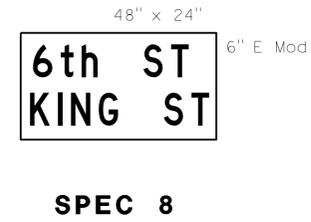
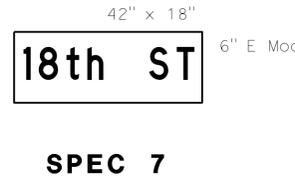
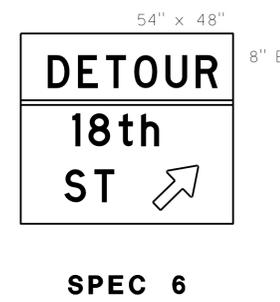
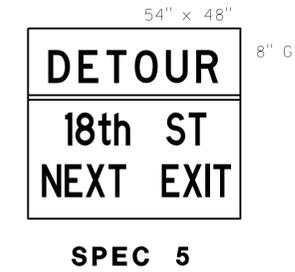
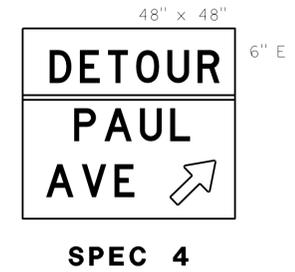
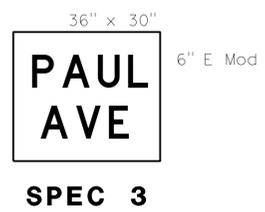
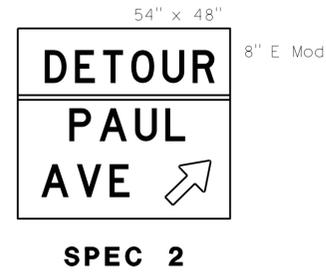
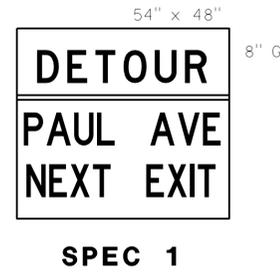
LAST REVISION DATE PLOTTED => 14-APR-2016  
 03-29-16 TIME PLOTTED => 09:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	9	25

*Rajesh Oberoi* 3-22-16  
 REGISTERED CIVIL ENGINEER DATE  
 4-11-16  
 PLANS APPROVAL DATE

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG  
 CHECKED BY: RAJESH OBEROI  
 REVISOR: ULICES VEGA  
 REVISION DATE: 3-1-16  
 UV: 3-1-16

**CONSTRUCTION AREA SIGNS**  
NO SCALE

**CS-7**

### CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	PANEL SIZE	SIGN MESSAGE	No. OF SIGNS	NUMBER OF POSTS AND SIZE	REMARKS
				EA	EACH - INCH x INCH	
1	SC6-4(CA)	48" x 60"	RAMP CLOSED (DATE)(TIME)	3	1 - 6" x 6"	
2	SC6-4(CA)	48" x 60"	RAMP CLOSED (DATE)(TIME)	2		SSBM
3	M4-8A	24" x 18"	END-DETOUR	4	1 - 4" x 4"	
4	SPEC 1	54" x 48"	DETOUR-PAUL AVE-NEXT-EXIT	1		SSBM
5	SPEC 2	54" x 48"	DETOUR-PAUL AVE	1	1 - 6" x 6"	
6	SC3(CA)	48" x 18"	DETOUR	4	1 - 6" x 6"	
	SPEC 3	36" x 30"	PAUL AVE			
7	M4-10L	48" x 18"	DETOUR	2	1 - 6" x 6"	
	SPEC 3	36" x 30"	PAUL AVE			
8	SPEC 4	48" x 48"	DETOUR-PAUL AVE	2		SSBM
9	SPEC 5	54" x 48"	DETOUR-18th ST-NEXT-EXIT	3		SSBM
10	SPEC 6	54" x 48"	DETOUR -18th ST	1		SSBM
11	M4-10R	48" x 18"	DETOUR	2		SSBM
	SPEC 7	42" x 18"	18th ST		SSBM	
12	SC3((CA)	48" x 18"	DETOUR	2		SSBM
	SPEC 7	42" x 18"	18th ST		SSBM	
13	SC3((CA)	48" x 18"	DETOUR	7		SSBM
	SPEC 8	42" x 18"	6th ST-KING ST		SSBM	
14	SC3((CA)	48" x 18"	DETOUR	4	1 - 4" x 6"	
	SPEC 8	42" x 18"	6th ST-KING ST			
15	M4-10R	48" x 18"	DETOUR	2	1 - 4" x 6"	
	SPEC 8	42" x 18"	6th ST-KING ST			
16	M4-10L	48" x 18"	DETOUR	2	1 - 4" x 6"	
	SPEC 8	42" x 18"	6th ST-KING ST			
17	SC3((CA)	48" x 18"	DETOUR	3	1 - 4" x 6"	
	SPEC 9	42" x 18"	6th ST			
18	M4-10L	48" x 18"	DETOUR	1	1 - 4" x 6"	
	SPEC 9	42" x 18"	6th ST			
19	SPEC 10	60" x 54"	DETOUR-101-SOUTH	2	2 - 4" x 6"	
20	SPEC 12	48" x 48"	DETOUR-101-SOUTH	1		SSBM
21	SPEC 11	48" x 48"	DETOUR-101-SOUTH	2		SSBM
22	SPEC 11	48" x 48"	DETOUR-101-SOUTH	1	1 - 6" x 6"	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	10	25

Rajesh Oberoi 3-22-16  
 REGISTERED CIVIL ENGINEER DATE

4-11-16  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 Rajesh Oberoi  
 No. 46046  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

### CONSTRUCTION AREA SIGNS

CS-8



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR  
 ROLAND AU-YEUNG  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 ULICES VEGA  
 RAJESH OBEROI  
 REVISED BY  
 DATE REVISED  
 UV  
 3-1-16

**CONSTRUCTION AREA SIGNS**

SIGN No.	MUTCD CODE	PANEL SIZE	SIGN MESSAGE	No. OF SIGNS	NUMBER OF POSTS AND SIZE	REMARKS
				EA	EACH - INCH x INCH	
23	M4-10R	48" x 18"	DETOUR	1	1 - 6" x 6"	
	G26-2(CA)	28" x 24"	101			
	M3-3	24" x 12"	SOUTH			
24	SPEC 13	60" x 60"	DETOUR-101-SOUTH-LEFT LANE	1	2 - 4" x 6"	
25	M4-8a	24" x 18"	END-DETOUR	1		SSBM
26	SC3((CA)	48" x 18"	DETOUR	8	1 - 6" x 6"	
	G26-2(CA)	28" x 24"	101			
	M3-1	24" x 12"	NORTH			
27	SPEC 14	48" x 60"	DETOUR-101-NORTH-LEFT LANE	1		SSBM
28	M4-10L	48" x 18"	DETOUR	1		SSBM
	G26-2(CA)	28" x 24"	101			SSBM
	M3-1	24" x 12"	NORTH			SSBM
29	M4-10R	48" x 18"	DETOUR	2	1 - 6" x 6"	
	G26-2(CA)	28" x 24"	101			
	M3-1	24" x 12"	NORTH			
30	SPEC 15	48" x 48"	DETOUR-101-NORTH	1	1 - 6" x 6"	
31	W20-1	48" x 48"	ROAD WORK AHEAD	5	1 - 6" x 6"	
32	G20-2	48" x 24"	END ROAD WORK	5	1 - 4" x 6"	
33	G20-2	48" x 24"	END ROAD WORK	1		SSBM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	11	25

Rajesh Oberoi 3-22-16  
 REGISTERED CIVIL ENGINEER DATE

4-11-16  
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER  
 Rajesh Oberoi  
 No. 46046  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

**CONSTRUCTION AREA SIGNS**

**CS-9**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	12	25

John C. Hemip  
 REGISTERED CIVIL ENGINEER DATE 2-17-16  
 4-11-16  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 John C. Hemip  
 No. 47384  
 Exp. 2-31-17  
 CIVIL  
 STATE OF CALIFORNIA

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

### TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION	BRIDGE NAME	BRIDGE No.	DETAIL No. OR PAVEMENT MARKER	REMOVE			THERMOPLASTIC TRAFFIC STRIPE				PAVEMENT MARKER			THERMOPLASTIC PAVEMENT MARKING				
				THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKER	THERMOPLASTIC PAVEMENT MARKINGS		4"		8"		NON-REFLECTIVE		RETRO REFLECTIVE		WHITE	YELLOW
				WHITE	YELLOW HAZARDOUS		WHITE	YELLOW HAZARDOUS	WHITE	YELLOW	WHITE	(BROKEN 35 x 13)	(BROKEN 12 x 3)	TYPE A	TYPE G	TYPE H		
				LF		EA	SQFT		LF				EA			SQFT		
4	CHINA BASIN VIADUCT	34 0100	13M	3077								947	242					
			25		5766	241								241				
			27B	5766				5766										
			36	3083		68						1542			68			
			36B	1115		39						557			39			
			37	840		293						1007			293			
			8" CHEVRON AND 8" LINE*				2213	490									2213	490
SUBTOTAL				13881	5766	1829	2213	490	5766	6773	2099	11358	4334	947	642	241	2213	490
TOTAL				13881	5766	1829	2213	490	12539		2099	11358	4334	947	883		2703	

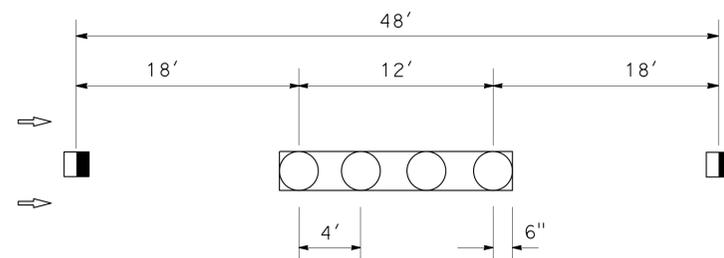
\* ON NB 280 THE 8" CHEVRON AND 8" WHITE LINE BEGINS FROM THE OFF-RAMP AND ENDS BEFORE THE END OF THE BRIDGE FOR FUTURE WIDENING.  
 ON SB 280 THE 8" CHEVRON BEGINS FROM THE SB ON-RAMP AND THE 8" YELLOW LINE IS LOCATED AT THE LEFT SIDE OF THE MAINLINE.

**NOTES:**

- ALL EXISTING PAVEMENT DELINEATION REMOVED SHALL BE REPLACED IN KIND AT THE EXACT LOCATION OF EXISTING OR AS AUTHORIZED BY THE ENGINEER.
- ALL EXISTING PAVEMENT DELINEATION SHALL BE REMOVED AND REPLACED FROM THE BEGINNING OF THE BRIDGE TO THE END OF THE BRIDGE.
- FOR DETAIL 13M, INSTALL 4" WHITE LINE AFTER INSTALLING PAVEMENT MARKERS.

**LEGEND:**

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



**DETAIL 13M**

## PAVEMENT DELINEATION QUANTITIES

**PDQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Caltrans®  
 DESIGN  
 RAMSES SARGISS  
 FUNCTIONAL SUPERVISOR  
 CHECKED BY  
 DARIO ARUGAY  
 ABDUL REJA  
 REVISOR BY  
 AR  
 DATE REVISOR  
 2-1-16

	<b>M</b>
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
	<b>N</b>
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
	<b>O</b>
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
	<b>P</b>
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

	<b>P continued</b>
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
	<b>Q</b>
Qty	QUANTITY
	<b>R</b>
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

	<b>S</b>
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
	<b>T</b>
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

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	13	25
<i>Grace M. Tsushima</i> REGISTERED CIVIL 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 4-11-16

**UNIT OF MEASUREMENT SYMBOLS:**

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

**TABLE A**

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

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

**TABLE B**

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

\* For use on a sign panel only

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

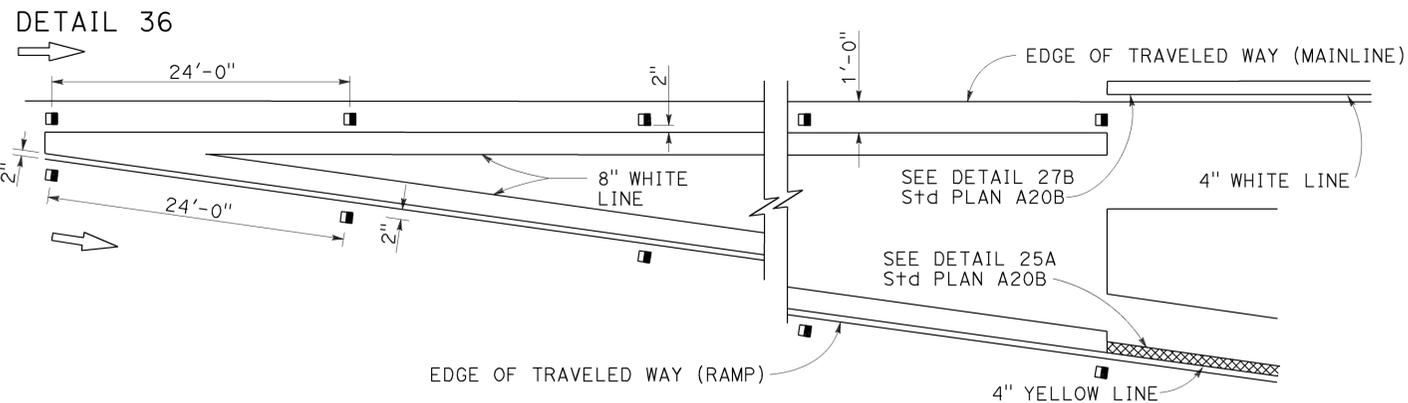
**ABBREVIATIONS  
(SHEET 2 OF 2)**

NO SCALE

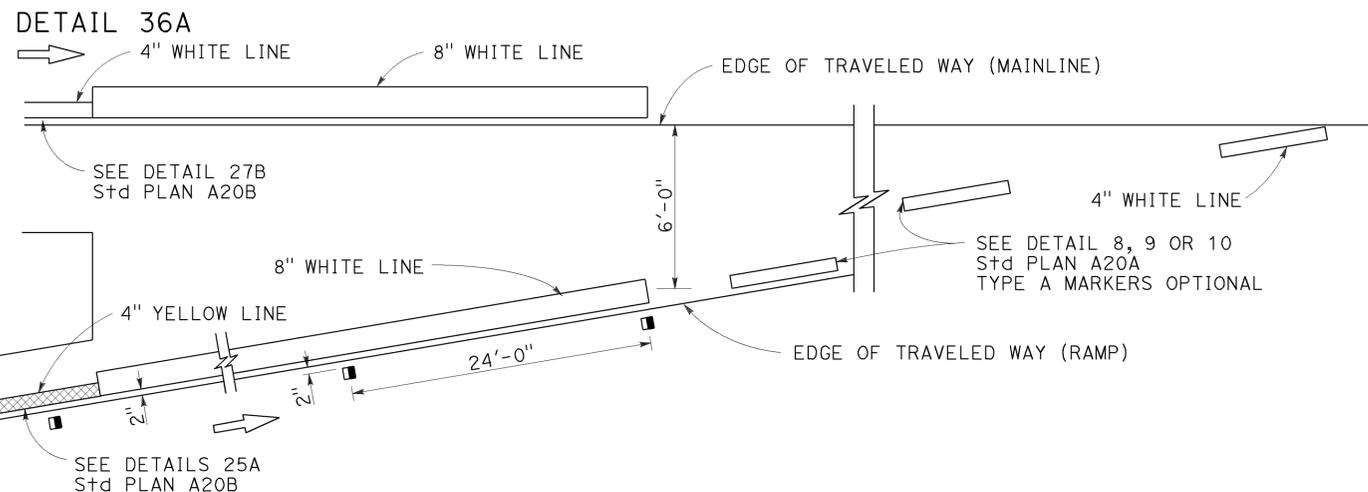
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B  
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

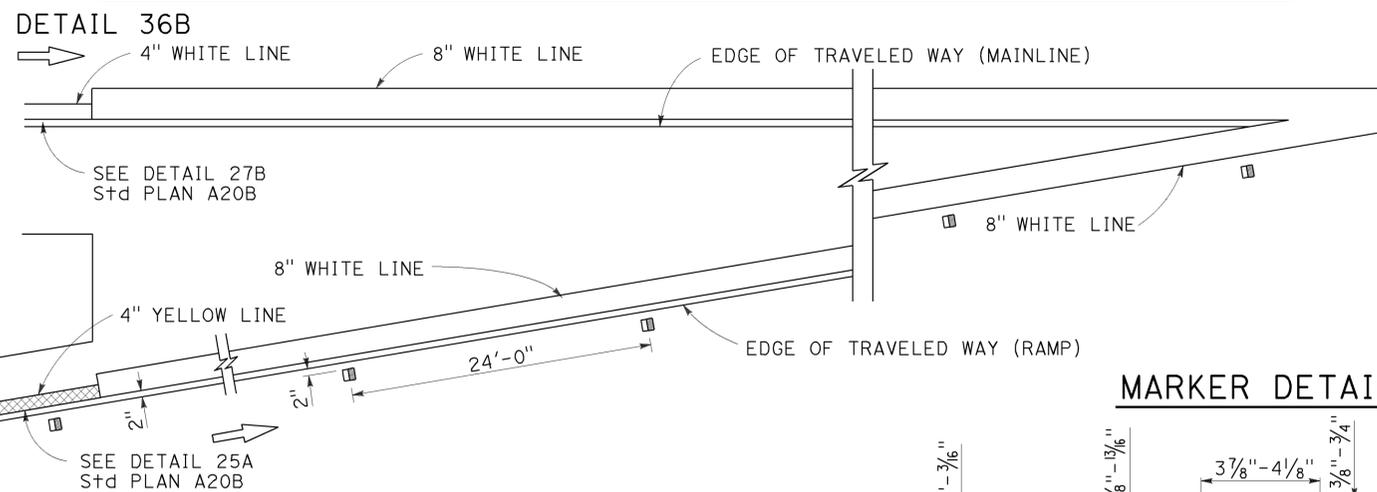
### EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



### ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



### ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

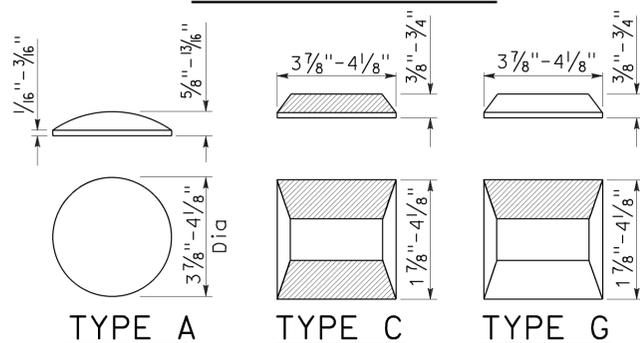


### MARKER DETAILS

#### LEGEND:

#### MARKERS

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



■ RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	14	25

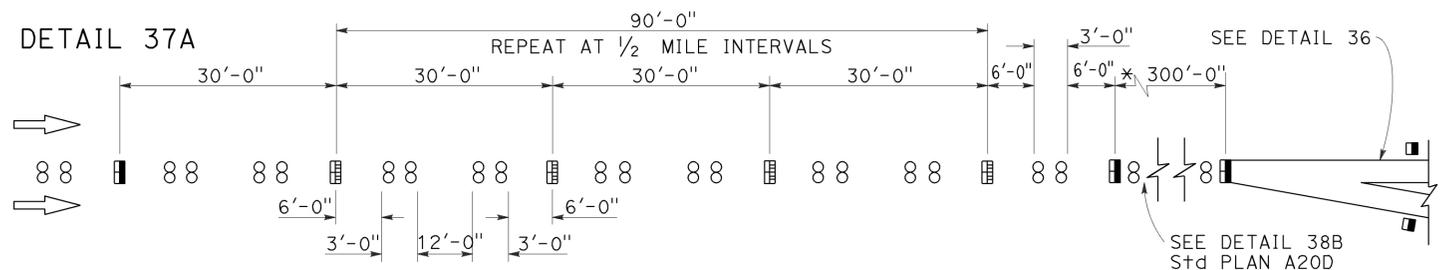
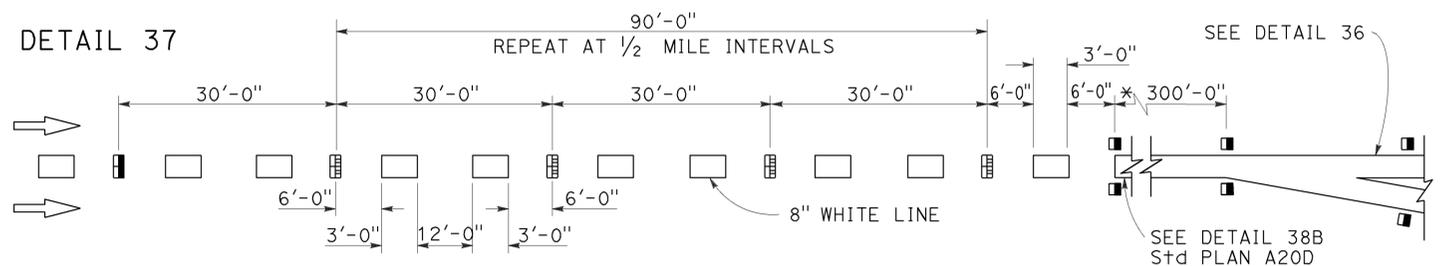
*Roberta L. McLaughlin*  
 REGISTERED CIVIL ENGINEER  
 No. C40375  
 Exp. 3-31-15  
 CIVIL  
 STATE OF CALIFORNIA

July 19, 2013  
PLANS APPROVAL DATE

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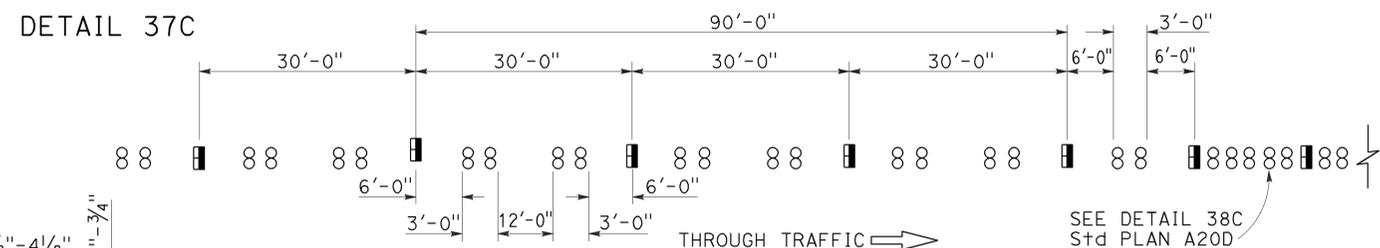
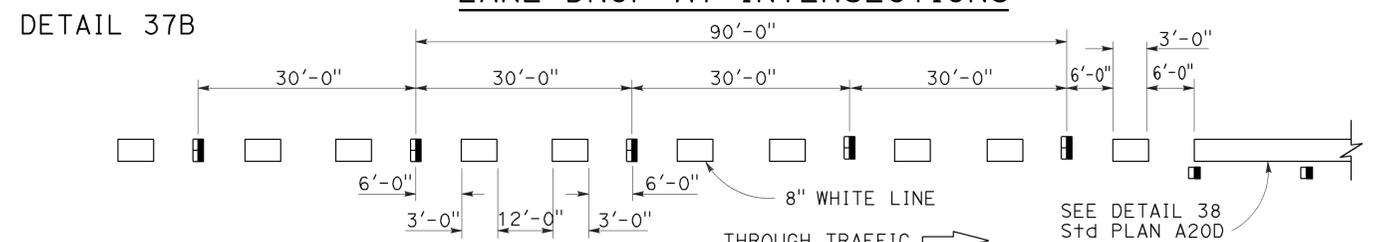
TO ACCOMPANY PLANS DATED 4-11-16

### 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

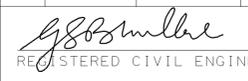
NO SCALE

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	SF, SM	101, 280	Var	15	25

  
 REGISTERED CIVIL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 4-11-16

TABLE 1

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

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

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

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

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

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

TABLE 3

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

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

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

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

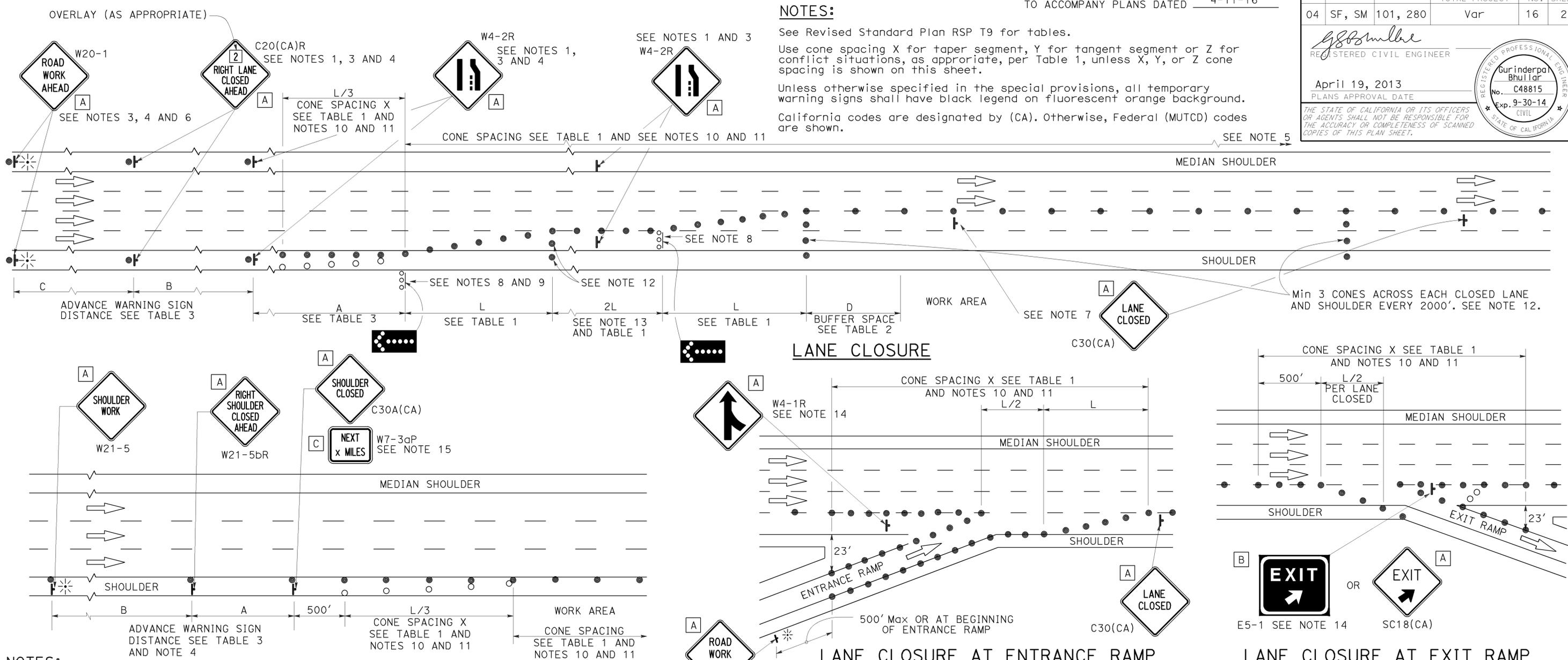
2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, SM	101, 280	Var	16	25

REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE

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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.

- NOTES:**
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

# 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	SF, SM	101, 280	Var	17	25

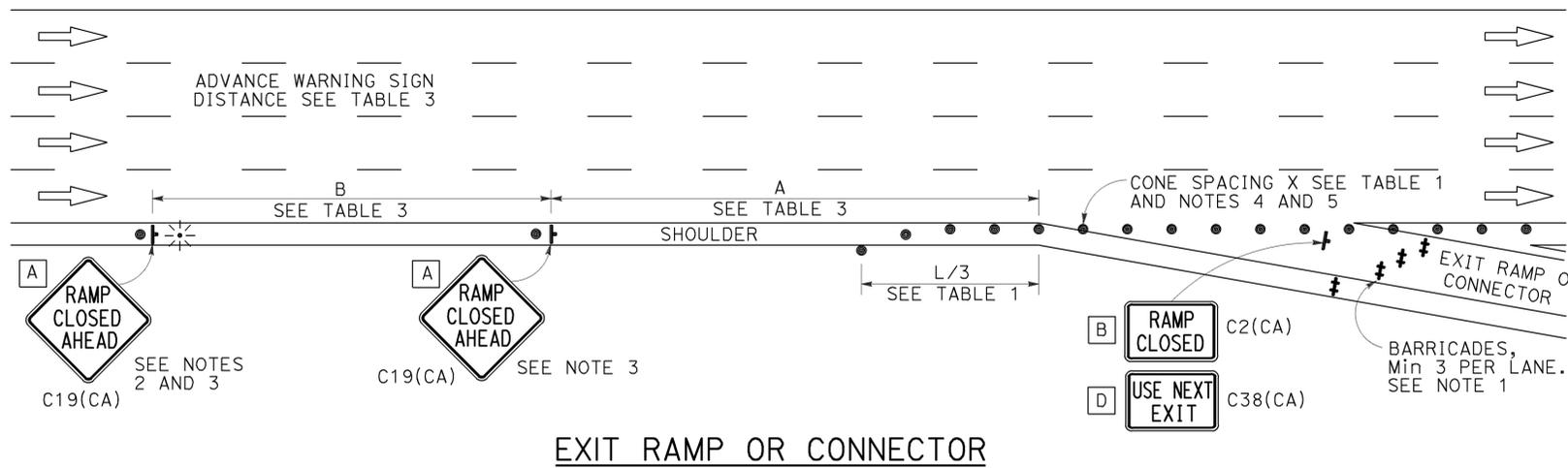
*Gurinderpal Bhullar*  
 REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

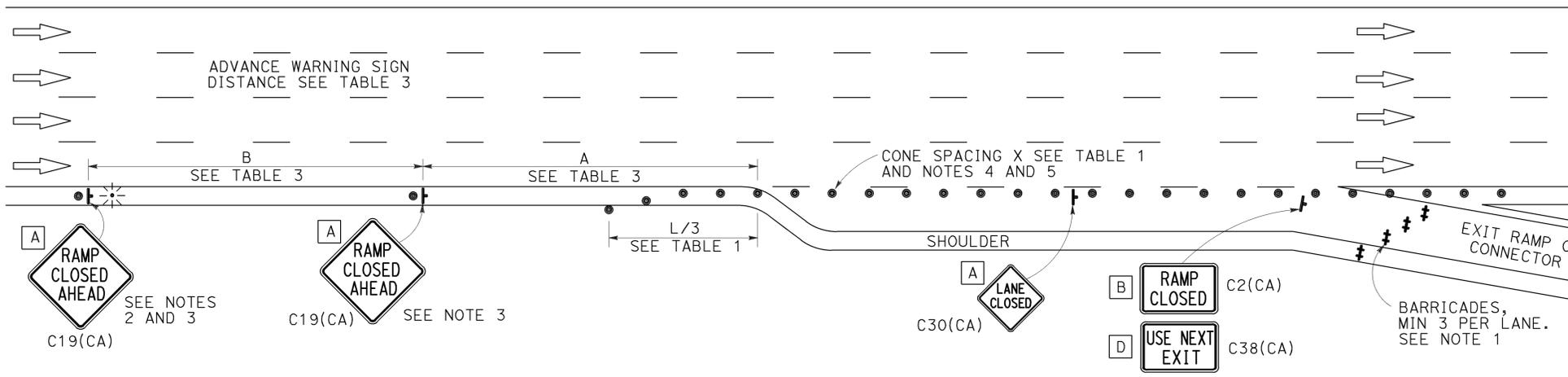
TO ACCOMPANY PLANS DATED 4-11-16

## NOTES:

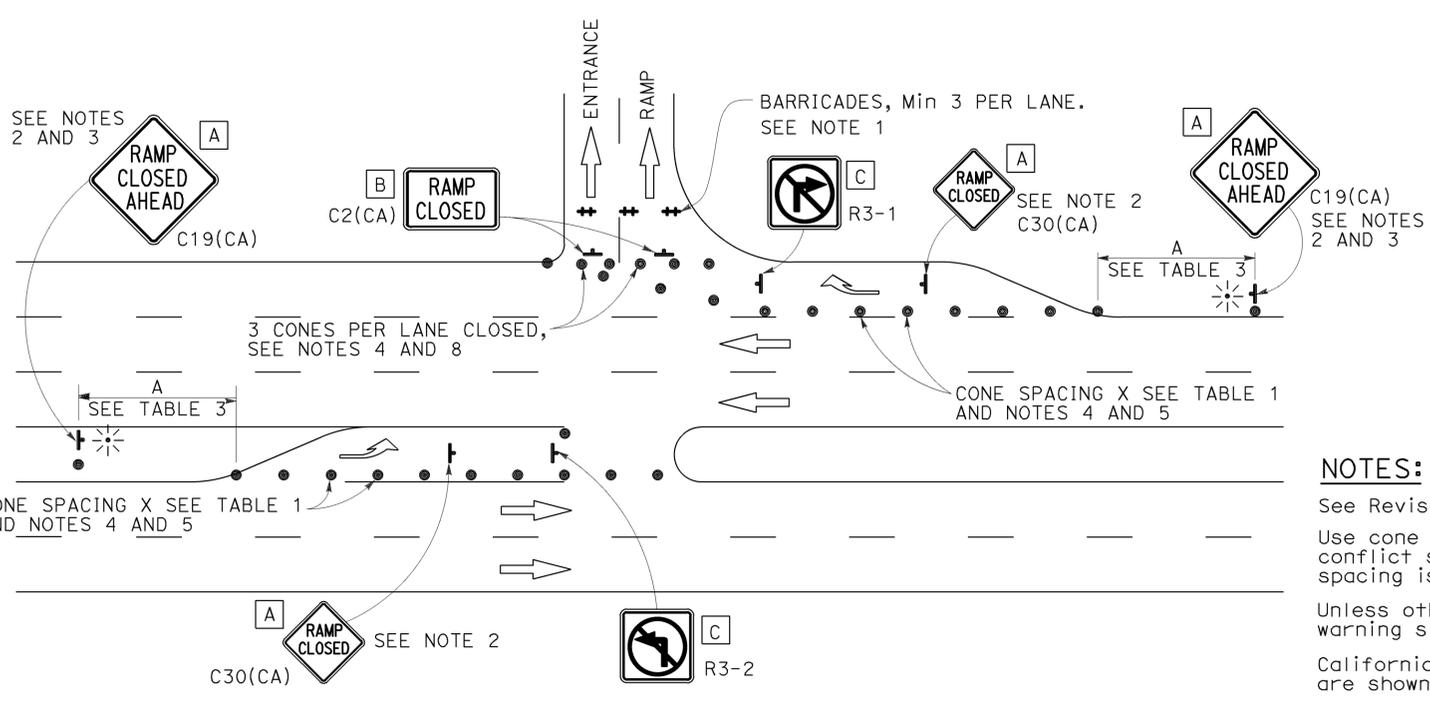
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



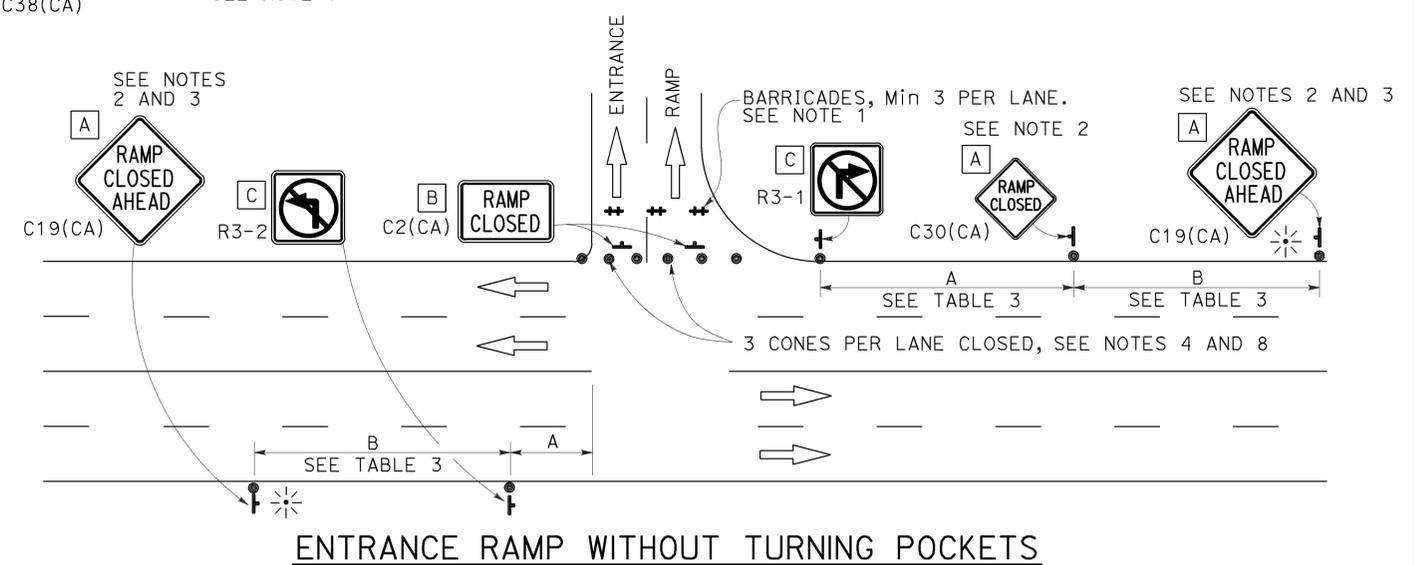
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

## NOTES:

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

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

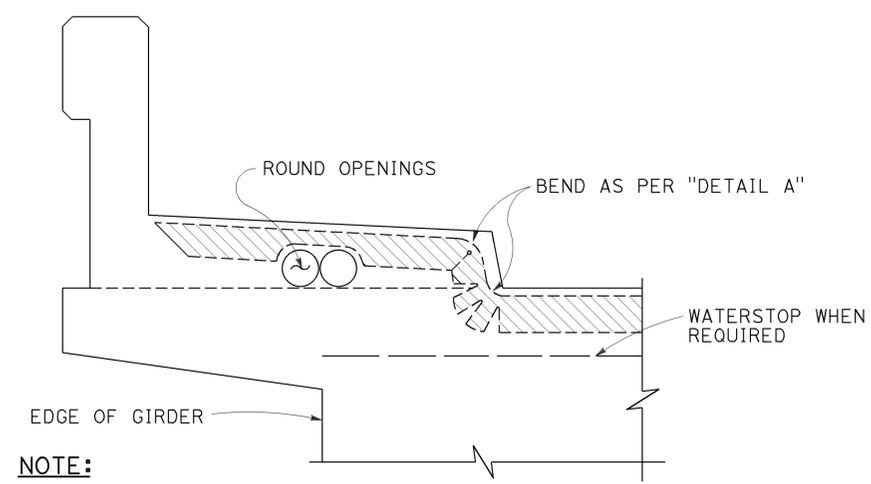
RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14  
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T14**

2010 REVISED STANDARD PLAN RSP T14

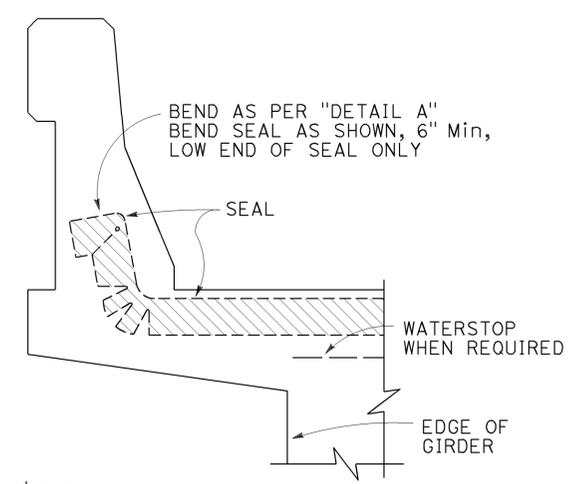
TO ACCOMPANY PLANS DATED 4-11-16

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

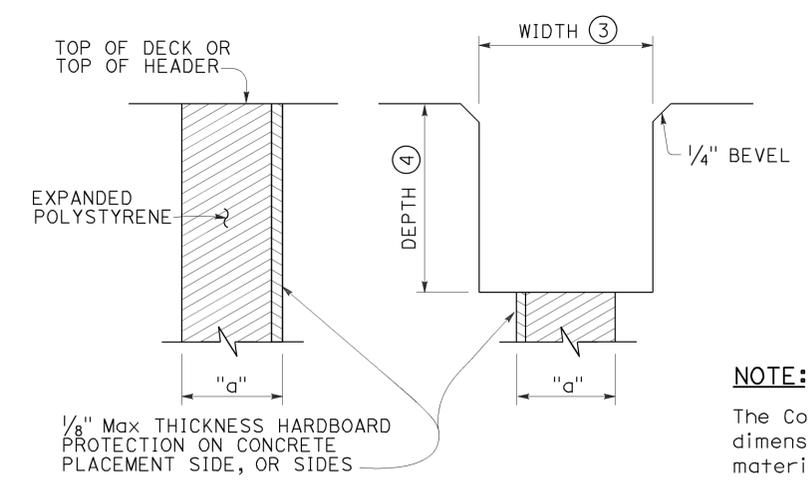


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**

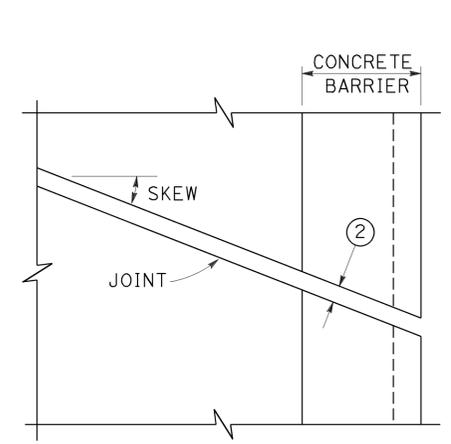


**CONCRETE BARRIER**



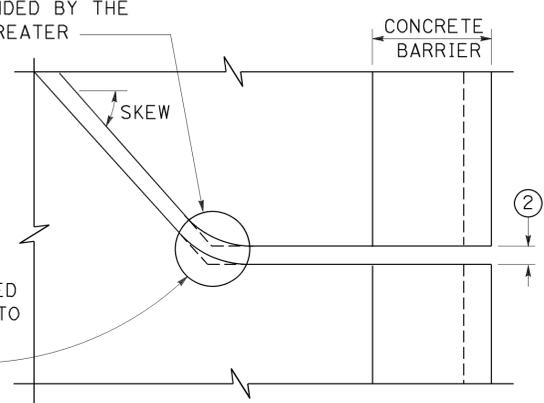
**FORMING DETAIL SAWCUT DETAIL**

**JOINT SEALS DETAILS**



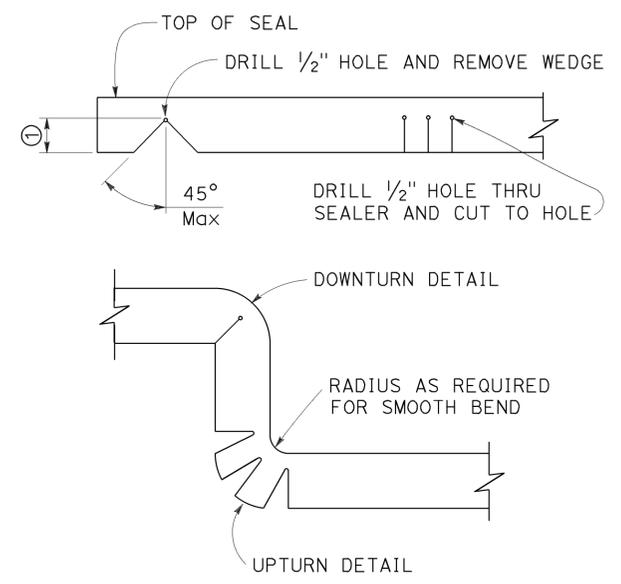
**PLAN OF JOINT (SKEW ≤ 20°)**

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



**PLAN OF JOINT (SKEW > 20°)**

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

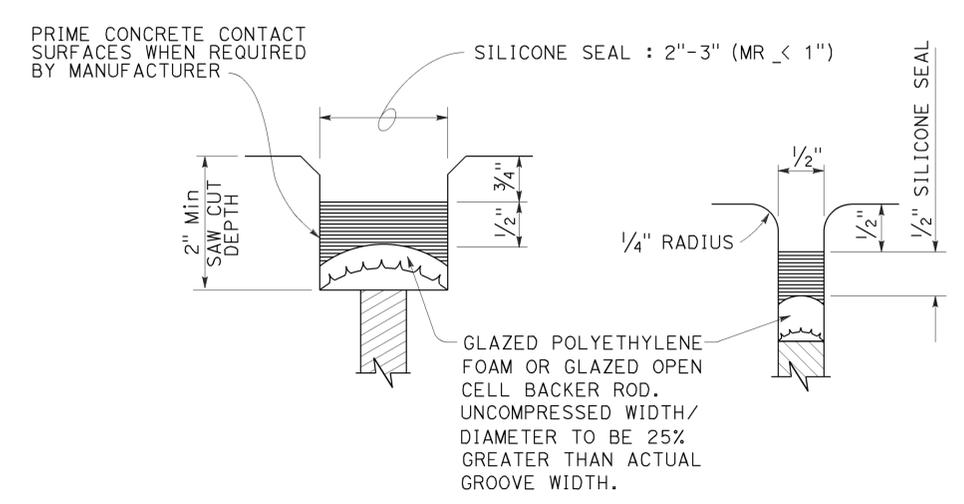


**DETAIL A**

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

**DIMENSIONS "a" OF JOINT REQUIRED**

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

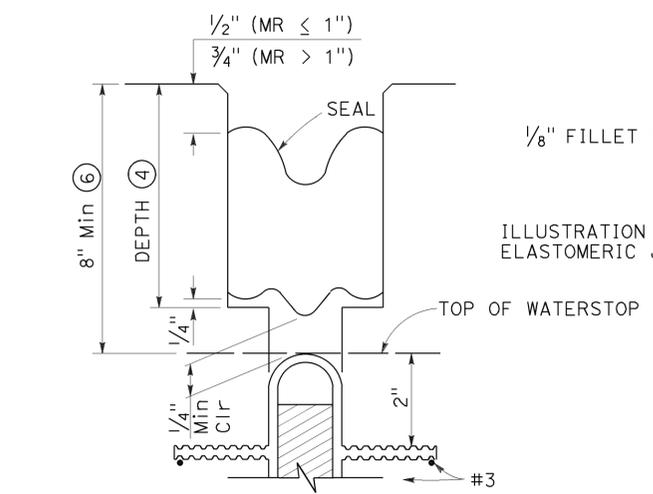


**TYPE A SEAL**

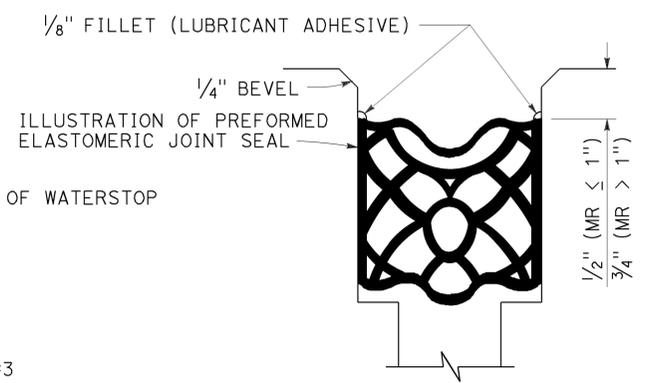
Movement rating : Silicone = 1" Max

**TYPE AL SEAL**

Longitudinal joints only



**TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W<sub>2</sub>)**

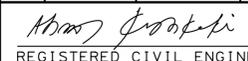
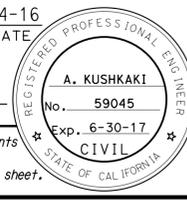


**TYPE B SEAL**

Movement Rating ≤ 2"

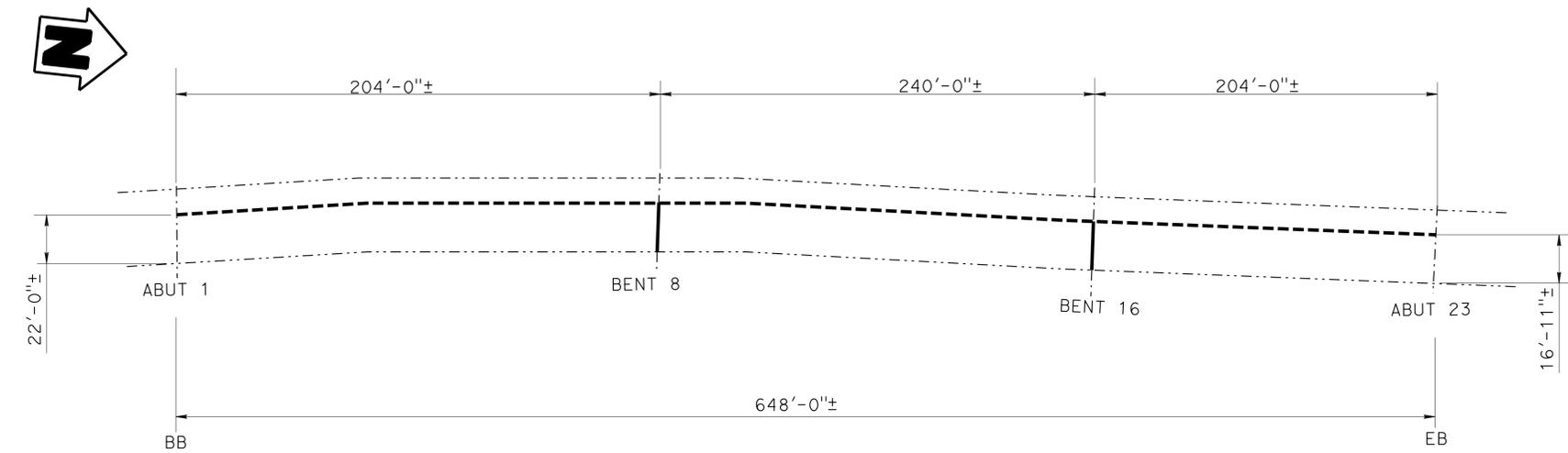
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**JOINT SEALS**  
**(MAXIMUM MOVEMENT RATING = 2")**

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	101, 280	Var	19	25
 REGISTERED CIVIL ENGINEER			2-24-16	DATE	
PLANS APPROVAL DATE			4-11-16		
No. 59045 Exp. 6-30-17 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.					
To get to the Caltrans web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a>					

**LEGEND:**

- INDICATES EXISTING STRUCTURE
- INDICATES LOCATION OF CLEAN EXISTING EXPANSION JOINT AND PLACE NEW JOINT SEAL. FOR DETAILS, SEE "JOINT SEAL TABLE AND DETAILS" SHEET.
- - - - - INDICATES LOCATION OF CLEAN EXISTING EXPANSION JOINT AND PLACEMENT OF NEW AC & TYPE AL JOINT SEAL. FOR DETAILS, SEE "JOINT SEAL TABLE AND DETAILS" SHEET.



**STANDARD PLANS DATED 2010**

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

**① BAY SHORE BLVD VIADUCT**  
 BR. NO. 34-0104, SF RTE 101, PM 1.14  
 NO SCALE

BAYSHORE BOULEVARD VIADUCT BR NO 34-0104

**QUANTITIES**

REMOVE ASPHALT CONCRETE SURFACE	972	SQFT
HOT MIX ASPHALT (BRIDGE)	15	TON
TACK COAT	0.1	TON
CLEAN EXPANSION JOINT	688	LF
JOINT SEAL (MR 1/2")	40	LF
JOINT SEAL (TYPE AL)	648	LF
DECK SEAL	972	SQFT

<u>SHEET NO.</u>	<u>TITLE</u>
1	GENERAL PLAN 1
2	GENERAL PLAN 2
3	GENERAL PLAN 3
4	GENERAL PLAN 4
5	GENERAL PLAN 5
6	GENERAL PLAN 6
7	JOINT SEAL TABLE AND DETAILS

  
 DESIGN ENGINEER 02-24-15

DESIGN	BY A. Kushkaki	CHECKED L. Ellis/H.Su	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED L. Ellis/H.Su	LAYOUT	BY M. Yu
QUANTITIES	BY A. Kushkaki	CHECKED L. Ellis	SPECIFICATIONS	BY T. Kershell

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.  
 34-0104  
 POST MILE  
 1.14

**REPLACE JOINT SEAL & TREAT BRIDGE DECK**  
**GENERAL PLAN 1**

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 3486  
 PROJECT NUMBER & PHASE: 0414000469

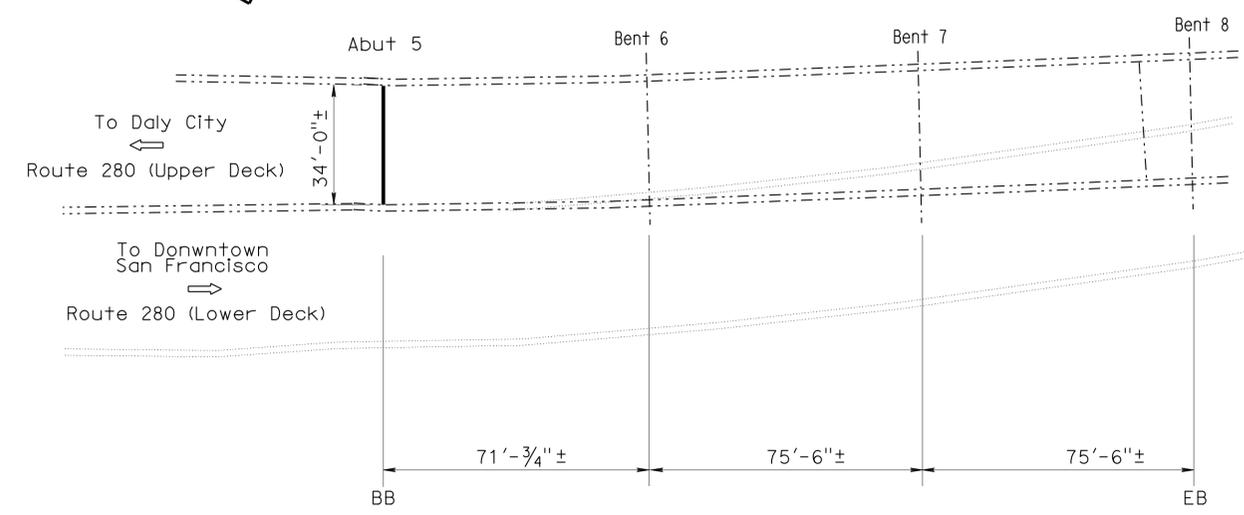
CONTRACT NO.: 04-2J2601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
10-1-15 2-22-16 2-25-16	1	7

USERNAME => s128787 DATE PLOTTED => 14-APR-2016 TIME PLOTTED => 09:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	101, 280	Var	20	25
<i>A. Kushkaki</i> REGISTERED CIVIL ENGINEER			2-24-16 DATE		
			4-11-16 PLANS APPROVAL DATE		
			No. 59045 Exp. 6-30-17 CIVIL STATE OF CALIFORNIA		
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③ SOUTHERN FREEWAY VIADUCT  
 A1 LINE (UPPER DECK) PARTIAL PLAN  
 BR. NO. 34-0046, SF RTE 280, PM R4.4  
 NO SCALE

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES LOCATION OF CLEAN EXISTING EXPANSION JOINT AND PLACE NEW JOINT SEAL. FOR DETAILS, SEE "JOINT SEAL TABLE AND DETAILS" SHEET.

280/101 INTERCHANGE - SB 280(AU LINE) BR NO 34-0131L

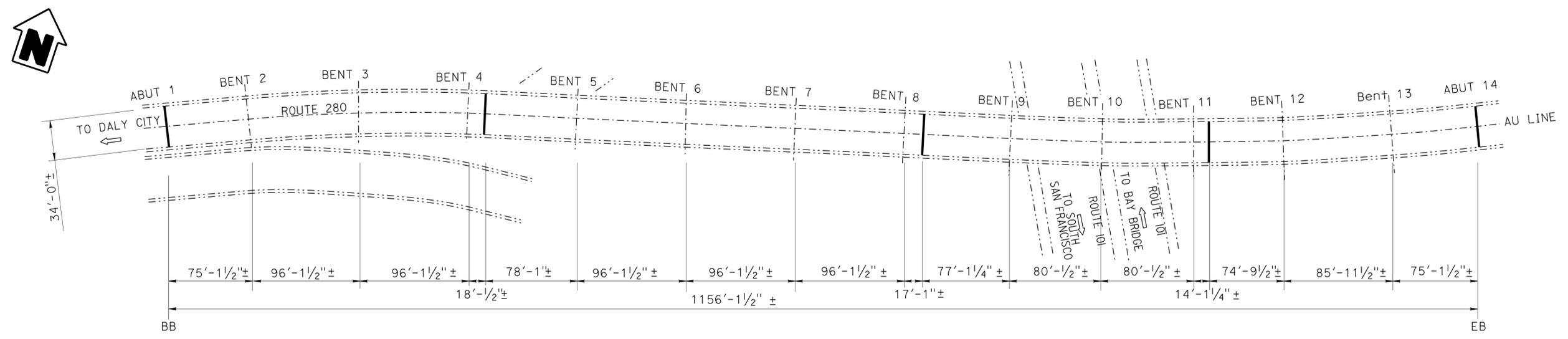
QUANTITIES

CLEAN EXPANSION JOINT	170 LF
JOINT SEAL (MR 1")	68 LF
JOINT SEAL (MR 1 1/2")	34 LF
JOINT SEAL (MR 2")	68 LF

SOUTHERN FREEWAY VIADUCT BR NO 34-0046

QUANTITIES

CLEAN EXPANSION JOINT	34 LF
JOINT SEAL (MR 1")	34 LF



② 280/101 INTERCHANGE - SB280 (AU LINE)  
 BR. NO. 34-0131L, SF RTE 280, PM R4.18  
 NO SCALE

*Hongyuan Su*  
 DESIGN ENGINEER 02-24-15

DESIGN	BY A. Kushkaki	CHECKED L. Ellis/H.Su
DETAILS	BY M. Yu	CHECKED L. Ellis/H.Su
QUANTITIES	BY A. Kushkaki	CHECKED L. Ellis

LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
LAYOUT	BY M. Yu
SPECIFICATIONS	BY T. Kershell

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

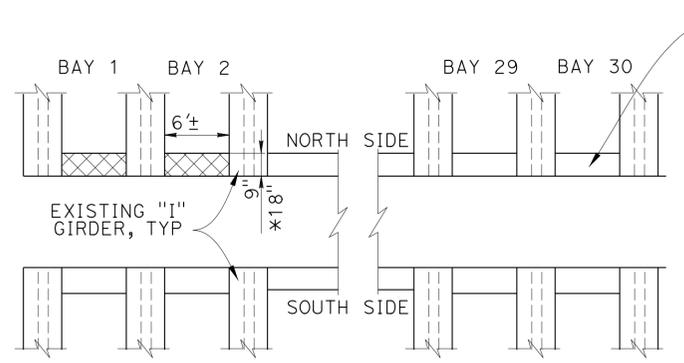
DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	34-0046
34-0131L	
POST MILE	R4.4
	R4.18

REPLACE JOINT SEAL & TREAT BRIDGE DECK  
 GENERAL PLAN 2

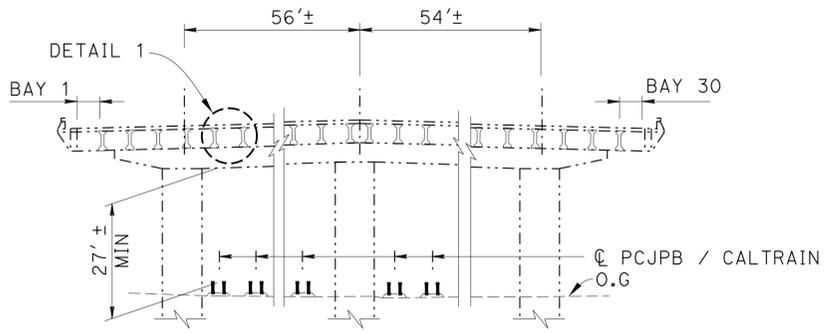
USERNAME => s128787 DATE PLOTTED => 14-APR-2016 TIME PLOTTED => 09:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	101, 280	Var	21	25
<i>A. KUSHKAKI</i> REGISTERED CIVIL ENGINEER			02-24-16	DATE	
PLANS APPROVAL DATE 4-11-16					
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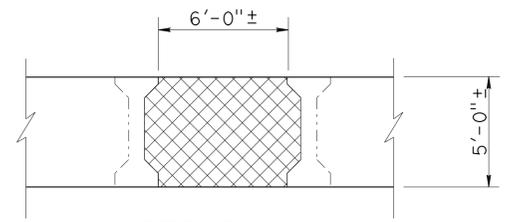


**PLAN TYP. BENT ALONG "A" LINE**  
NO SCALE

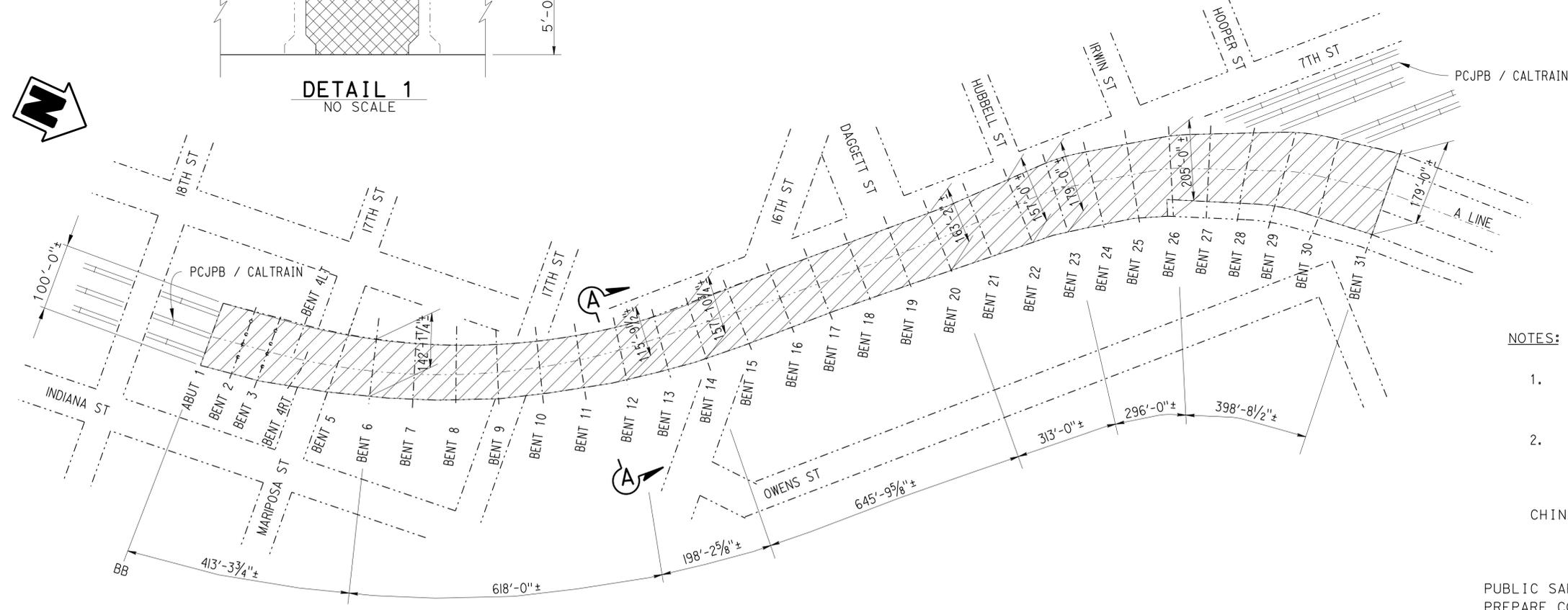
\* INDICATES DIAPHRAGM THICKNESS AT 8"Ø PIPE RESTRAINER. FOR LOCATIONS SEE "END DIAPHRAGM REPAIR TABLE" ON THIS SHEET.



**SECTION A-A**  
NO SCALE



**DETAIL 1**  
NO SCALE



**4 CHINA BASIN VIADUCT**  
BR. NO. 34-0100, SF RTE 280, PM R6.6  
NO SCALE

**LEGEND:**

- INDICATES EXISTING STRUCTURE
- INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK SURFACE WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
- INDICATES LIMIT OF BRIDGE REMOVAL (PORTION), RETAIN EXISTING REBAR AND LIMITS OF STRUCTURAL CONCRETE BRIDGE (REPAIR).
- INDICATES LOCATION WITH EXISTING 8"Ø PIPE AND 1 1/4"Ø RESTRAINER.
- INDICATES LOCATION WITH EXISTING 8"Ø PIPE RESTRAINER.
- INDICATES LOCATION WITH EXISTING 1 1/4"Ø RESTRAINER.

END DIAPHRAGM REPAIR TABLE	
BENT	BAY (NORTH SIDE)
5	2 3 8 9 10
8	2 3 8 10 11 12 13
11	2 3 5 6 7 8 13
14	2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 20 21
17	2 3 4 5 6 8 9 21 24
20	1 2 3 4 5 6 12 14 15 16 21 22 23 24 25 26
23	4 5 10 14 19 22 23 24 26 27 28 29 30
26	2 3 10 14 15 19 28
29	12 13 14 15 17

**NOTES:**

- ALL EXISTING TRANSVERSE RESTRAINERS, 1/2"Ø HINGE BOLTS, ROD AND PIPE RESTRAINERS MUST BE PROTECTED DURING DIAPHRAGM DEMOLITION.
- 8"Ø PIPE AND 1 1/4"Ø RESTRAINERS MUST BE ENCLOSED WITH 9"Ø PVC AND 2"Ø PVC PIPE RESPECTIVELY DURING DIAPHRAGM CONSTRUCTION.

CHINA BASIN VIADUCT BR NO 34-0100

QUANTITIES	
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	447,000 SQFT
TREAT BRIDGE DECK	447,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	4,970 GAL
BRIDGE REMOVAL (PORTION)	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE (REPAIR)	78 CY

*Hongyuan Su*  
DESIGN ENGINEER 02-24-15

DESIGN	BY A. Kushkaki	CHECKED L. Ellis/H.Su
DETAILS	BY M. Yu	CHECKED L. Ellis/H.Su
QUANTITIES	BY A. Kushkaki	CHECKED L. Ellis

LOAD FACTOR DESIGN	BY A. Kushkaki	CHECKED A. Kushkaki
LAYOUT	BY M. Yu	CHECKED A. Kushkaki
SPECIFICATIONS	BY T. Kershell	CHECKED A. Kushkaki

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

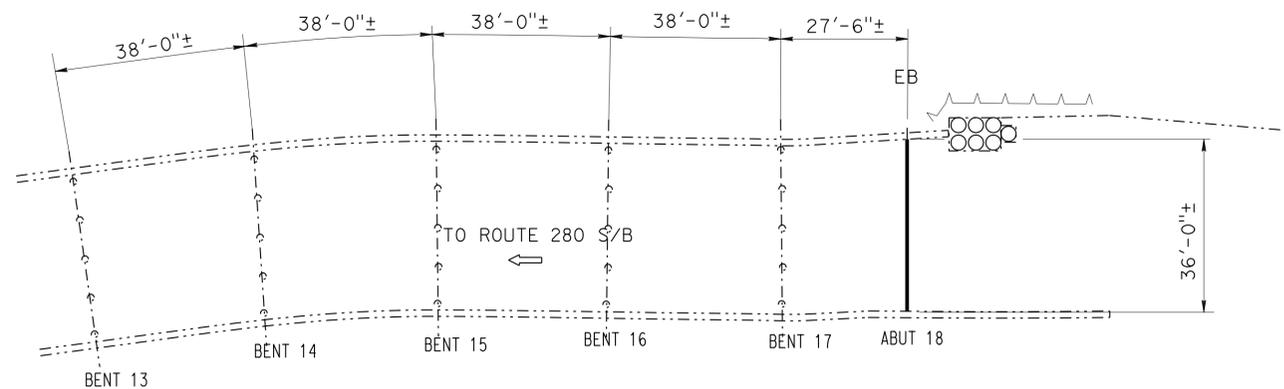
DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	34-0100
POST MILE	R6.6

**REPLACE JOINT SEAL & TREAT BRIDGE DECK**  
**GENERAL PLAN 3**

USERNAME => s128787 DATE PLOTTED => 15-APR-2016 TIME PLOTTED => 11:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	101, 280	Var	22	25
<i>A. Kushkaki</i> REGISTERED CIVIL ENGINEER			2-24-16	DATE	
			4-11-16	PLANS APPROVAL DATE	
			A. KUSHKAKI No. 59045 Exp. 6-30-17 CIVIL STATE OF CALIFORNIA		
<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>					
To get to the Caltrans web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a>					



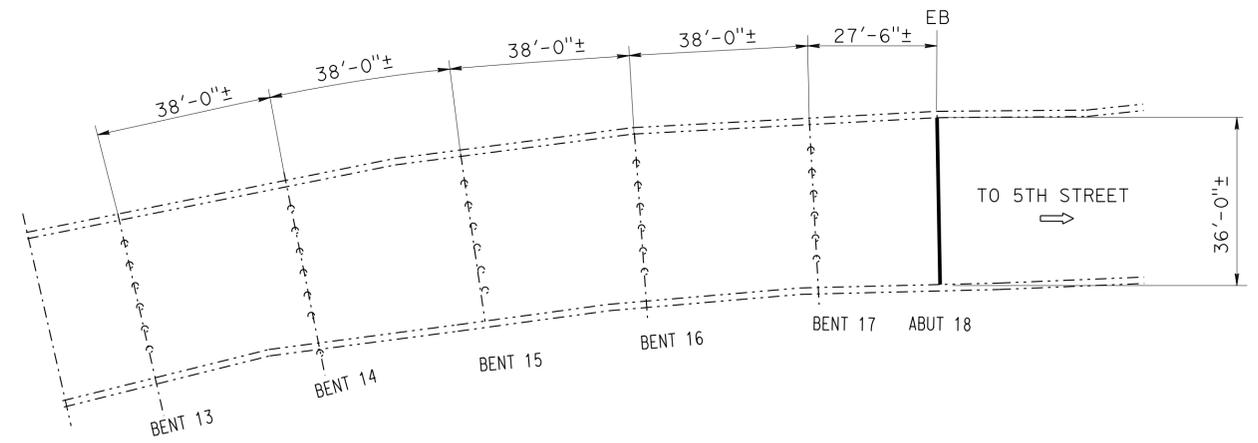
**LEGEND:**

- INDICATES EXISTING STRUCTURE
- INDICATES LOCATION OF CLEAN EXISTING EXPANSION JOINT AND PLACE NEW JOINT SEAL. FOR DETAILS, SEE "JOINT SEAL TABLE AND DETAILS" SHEET.

**5 CHINA BASIN VIADUCT ON-RAMP**  
 BR. NO. 34-0123L, SF RTE 280, PM T7.18  
 NO SCALE

CHINA BASIN VIADUCT ON-RAMP	BR NO 34-0123L
QUANTITIES	
CLEAN EXPANSION JOINT	36 LF
JOINT SEAL (MR 1 1/2")	36 LF

CHINA BASIN VIADUCT ON-RAMP	BR NO 34-0123R
QUANTITIES	
CLEAN EXPANSION JOINT	36 LF
JOINT SEAL (MR 1 1/2")	36 LF



**6 CHINA BASIN VIADUCT OFF-RAMP**  
 BR. NO. 34-0123R, SF RTE 280, PM T7.18  
 NO SCALE

*Hongyuan Su*  
 DESIGN ENGINEER 02-24-15

DESIGN	BY A. Kushkaki	CHECKED L. Ellis/H.Su	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED L. Ellis/H.Su	LAYOUT	BY M. Yu
QUANTITIES	BY A. Kushkaki	CHECKED L. Ellis	SPECIFICATIONS	BY T. Kershell
				CHECKED A. Kushkaki
				PLANS AND SPECS COMPARED

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	34-0123R/L
POST MILE	T7.18

**REPLACE JOINT SEAL & TREAT BRIDGE DECK**  
**GENERAL PLAN 4**

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 3486  
 PROJECT NUMBER & PHASE: 0414000469

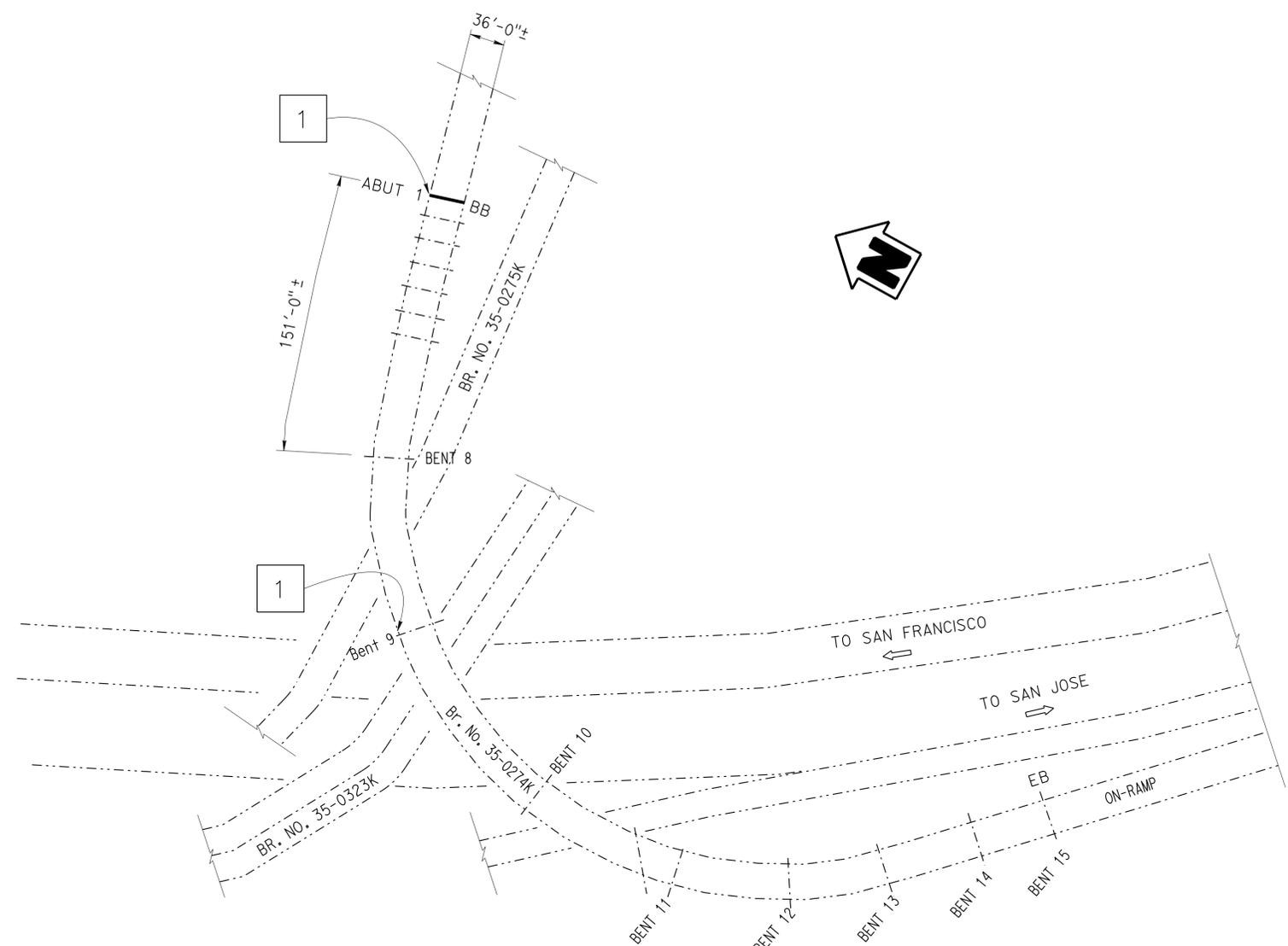
CONTRACT NO.: 04-2J2601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
10-2-14	10-20-14	4-5-15	10-1-15	4	7

USERNAME => s128787 DATE PLOTTED => 14-APR-2016 TIME PLOTTED => 09:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	101, 280	Var	23	25
<i>A. Kushkaki</i> REGISTERED CIVIL ENGINEER			2-24-16	DATE	
			4-11-16	PLANS APPROVAL DATE	
			A. KUSHKAKI No. 59045 Exp. 6-30-17 CIVIL STATE OF CALIFORNIA		
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To get to the Caltrans web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a>					

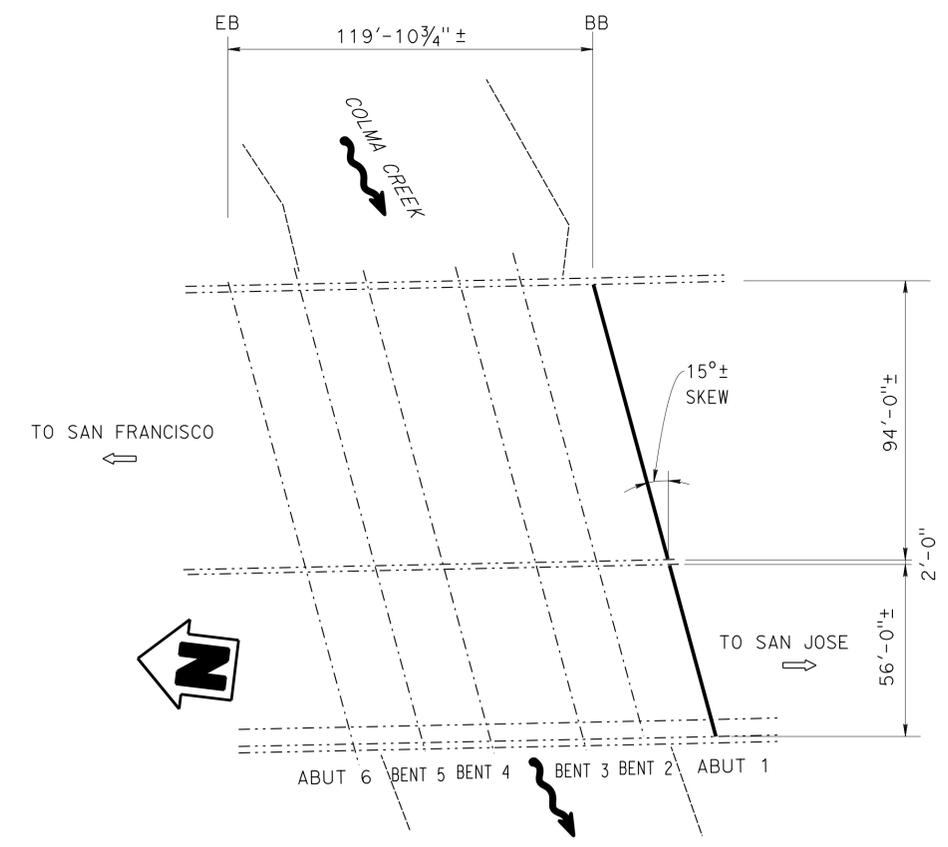


**LEGEND:**

- INDICATES EXISTING STRUCTURE
- INDICATES LOCATION OF CLEAN EXISTING EXPANSION JOINT AND PLACE NEW JOINT SEAL. FOR DETAILS, SEE "JOINT SEAL TABLE AND DETAILS" SHEET.
- 1 PAINT "SFO AIRPORT-S101 ON-RAMP" SEPARATION (DOMESTIC)"  
PAINT "Br No 35 0274K"

⑦ **SFO AIRPORT - S101 ON-RAMP SEPARATION (DOMESTIC)**  
 BR. NO. 35-0274K, SM RTE 101, PM 19.09  
 NO SCALE

SFO AIRPORT - S101 ON-RAMP SEP (DOMES.) BR NO 35-0274K	
QUANTITIES	
PAINT BRIDGE IDENTIFICATION	2 EA
CLEAN EXPANSION JOINT	36 LF
JOINT SEAL (MR 1")	36 LF
COLMA CREEK BRIDGE BR NO 35-0118	
QUANTITIES	
CLEAN EXPANSION JOINT	156 LF
JOINT SEAL (MR 1 1/2")	156 LF



⑧ **COLMA CREEK**  
 BR. No. 35-0118, SM Rte 101, PM 21.61  
 NO SCALE

*Hongyuan Su*  
 DESIGN ENGINEER 02-24-15

DESIGN	BY A. Kushkaki	CHECKED L. Ellis/H.Su	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED L. Ellis/H.Su	LAYOUT	BY M. Yu
QUANTITIES	BY A. Kushkaki	CHECKED L. Ellis	SPECIFICATIONS	BY T. Kershell
				CHECKED A. Kushkaki
				PLANS AND SPECS COMPARED

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

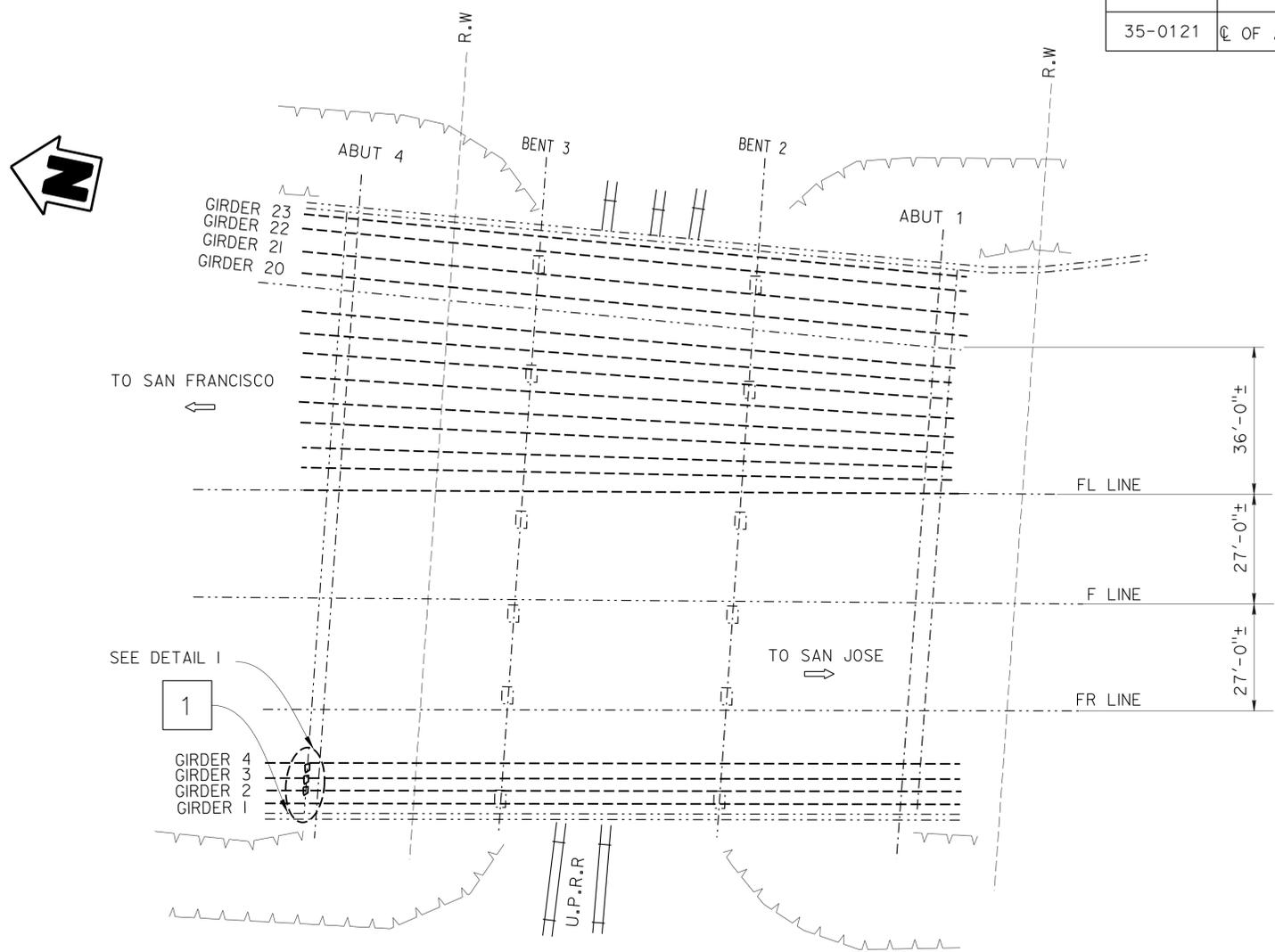
DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	35-0274K
	35-0118
POST MILE	19.09
	21.61

**REPLACE JOINT SEAL & TREAT BRIDGE DECK**  
**GENERAL PLAN 5**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	101, 280	Var	24	25
<i>A. Kushkaki</i> REGISTERED CIVIL ENGINEER			02-24-16	DATE	
PLANS APPROVAL DATE 4-11-16					
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To get to the Caltrans web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a>					

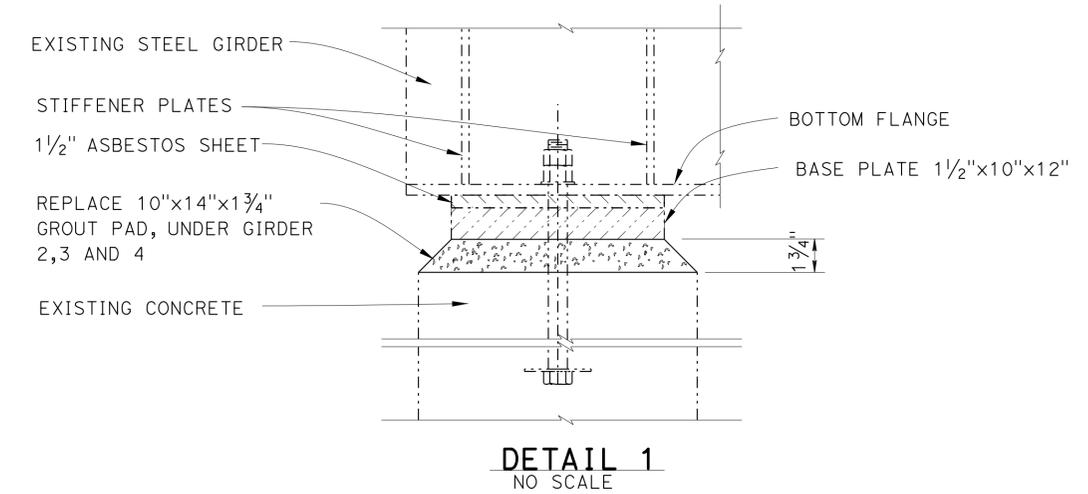
TEMPORARY SUPPORT AT GIRDERS 2,3, AND 4			
BR. NO.	REACTION LOCATION	TEMPORARY SUPPORT DEAD LOAD + LIVE LOAD +IMPACT	HORIZONTAL LOAD
35-0121	CL OF ABUT 4	80 KIPS	2 KIPS



**LEGEND:**

----- INDICATES EXISTING STRUCTURE

1 PAINT "SOUTH SF BELT RAILWAY OH"  
PAINT "Br No 35 0121".



- NOTES:**
- STEEL GIRDERS MUST BE TEMPORARY SUPPORTED DURING GROUT REPLACEMENT UNTIL GROUT REACHES ITS DESIGN COMPRESSIVE STRENGTH.
  - GROUT MUST HAVE A MINIMUM COMPRESSIVE STRENGTH OF  $f'c=4000$  psi, AT 28 DAYS.
  - TEMPORARY SUPPORT MUST BE FULLY ENGAGED WITH THE SUPPORTED MEMBER TO MAINTAIN DESIGN LOADS AS SHOWN ON TABLE BEFORE BRIDGE REMOVAL.
  - THE MAXIMUM ALLOWABLE TEMPORARY DIFFERENTIAL VERTICAL LIFT BETWEEN JACKS IS  $1/16$ " INCH

**9 SOUTH SF BELT RAILWAY OH**  
 BR. No. 35-0121, SM Rte 101, PM 21.8  
 NO SCALE

SOUTH SF BELT RAILWAY OH BR NO 35-0121

QUANTITIES

REPLACE BEARING GROUT PAD	3 EA
TEMPORARY SUPPORT	LUMP SUM
PAINT BRIDGE IDENTIFICATION	1 EA

 DESIGN ENGINEER 02-24-15	DESIGN	BY A. Kushkaki	CHECKED L. Ellis/H.Su	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	35-0121	<b>REPLACE JOINT SEAL &amp; TREAT BRIDGE DECK</b> <b>GENERAL PLAN 6</b>												
	DETAILS	BY M. Yu	CHECKED L. Ellis/H.Su	LAYOUT	BY M. Yu			CHECKED A. Kushkaki	POST MILE		21.8											
	QUANTITIES	BY A. Kushkaki	CHECKED L. Ellis	SPECIFICATIONS	BY T. Kershell			PLANS AND SPECS COMPARED														
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 3486 PROJECT NUMBER & PHASE: 0414000469	CONTRACT NO.: 04-2J2601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th colspan="4">REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>10-1-15</td> <td>10-16-15</td> <td>2-22-16</td> <td>3-5-16</td> <td>6</td> <td>7</td> </tr> </table>	REVISION DATES				SHEET	OF	10-1-15	10-16-15	2-22-16	3-5-16	6	7
REVISION DATES				SHEET	OF																	
10-1-15	10-16-15	2-22-16	3-5-16	6	7																	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, SM	101, 280	Var	25	25

02-24-16  
 REGISTERED CIVIL ENGINEER DATE  
 4-11-16  
 PLANS APPROVAL DATE

A. KUSHKAKI  
 No. 59045  
 Exp. 6-30-17  
 CIVIL  
 STATE OF CALIFORNIA

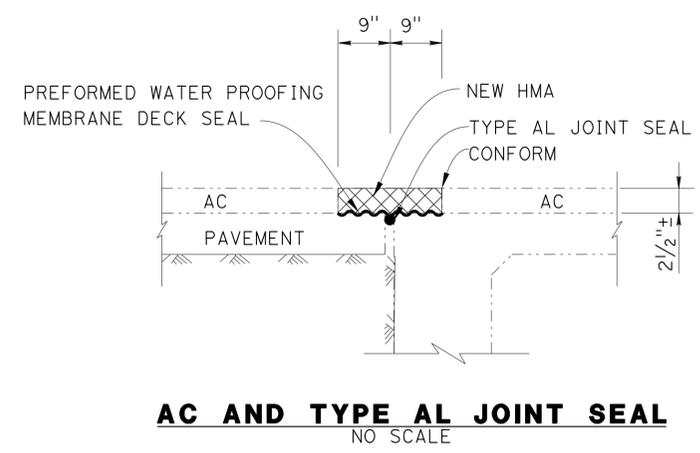
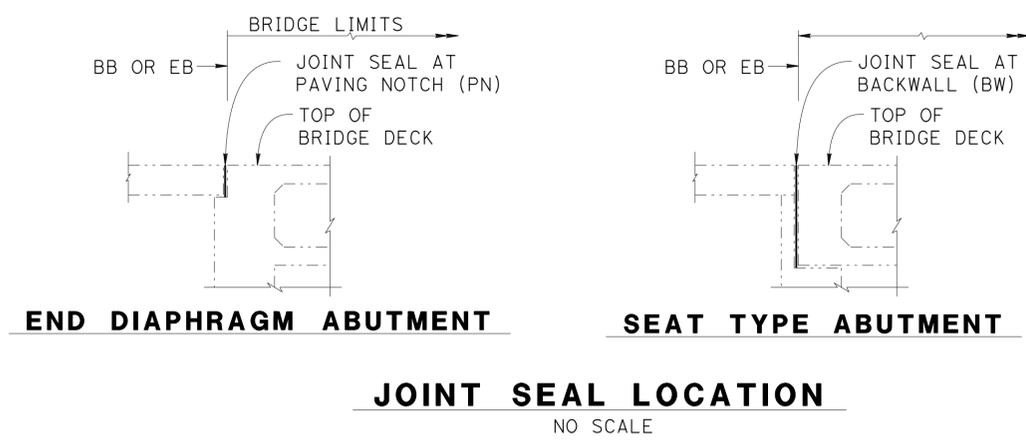
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JOINT SEAL TABLE						
INDEX	BRIDGE NUMBER	JOINT LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN Exp JOINT (INCHES)
①	34-0104	BENT 8	1/2	20	no	18
		BENT 16	1/2	20	no	18
		* LONGITUDINAL	-	648	no	-
②	34-0131L	ABUT 1	1	34	no	12
		BENT 4	2	34	no	12
		BENT 8	2	34	no	12
		BENT 11	1 1/2	34	no	12
		ABUT 14	1	34	no	12
③	34-0046	ABUT 5	1	34	yes	6
⑤	34-0123L	ABUT 18	1 1/2	36	no	12
⑥	34-0123R	ABUT 18	1 1/2	36	no	12
⑦	35-0274K	ABUT 1	1	36	no	12
⑧	35-0118	ABUT 1	1 1/2	156	no	12

\* INDICATES AC AND TYPE AL JOINT SEAL.

INDICATES LOCATION OF CLEAN EXISTING EXPANSION JOINT AND PLACE NEW JOINT SEAL. FOR DETAILS, SEE "JOINT SEAL TABLE AND DETAILS" SHEET.



STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY A. Kushkaki	CHECKED L. Ellis/H.Su	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	Var	<b>REPLACE JOINT SEAL AND TREAT BRIDGE DECK</b> <b>JOINT SEAL TABLE &amp; DETAILS</b>
	DETAILS	BY M. Yu	CHECKED L. Ellis/H.Su			POST MILE	Var	
	QUANTITIES	BY A. Kushkaki	CHECKED L. Ellis					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 UNIT: 3486 PROJECT NUMBER & PHASE: 0414000469 CONTRACT NO.: 04-2J2601  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 1-26-16 2-18-16 10-1-15 7 7  
 USERNAME => s128787 DATE PLOTTED => 15-APR-2016 TIME PLOTTED => 11:11 FILE => 04-2J2601jst01.dgn