

INDEX OF PLANS

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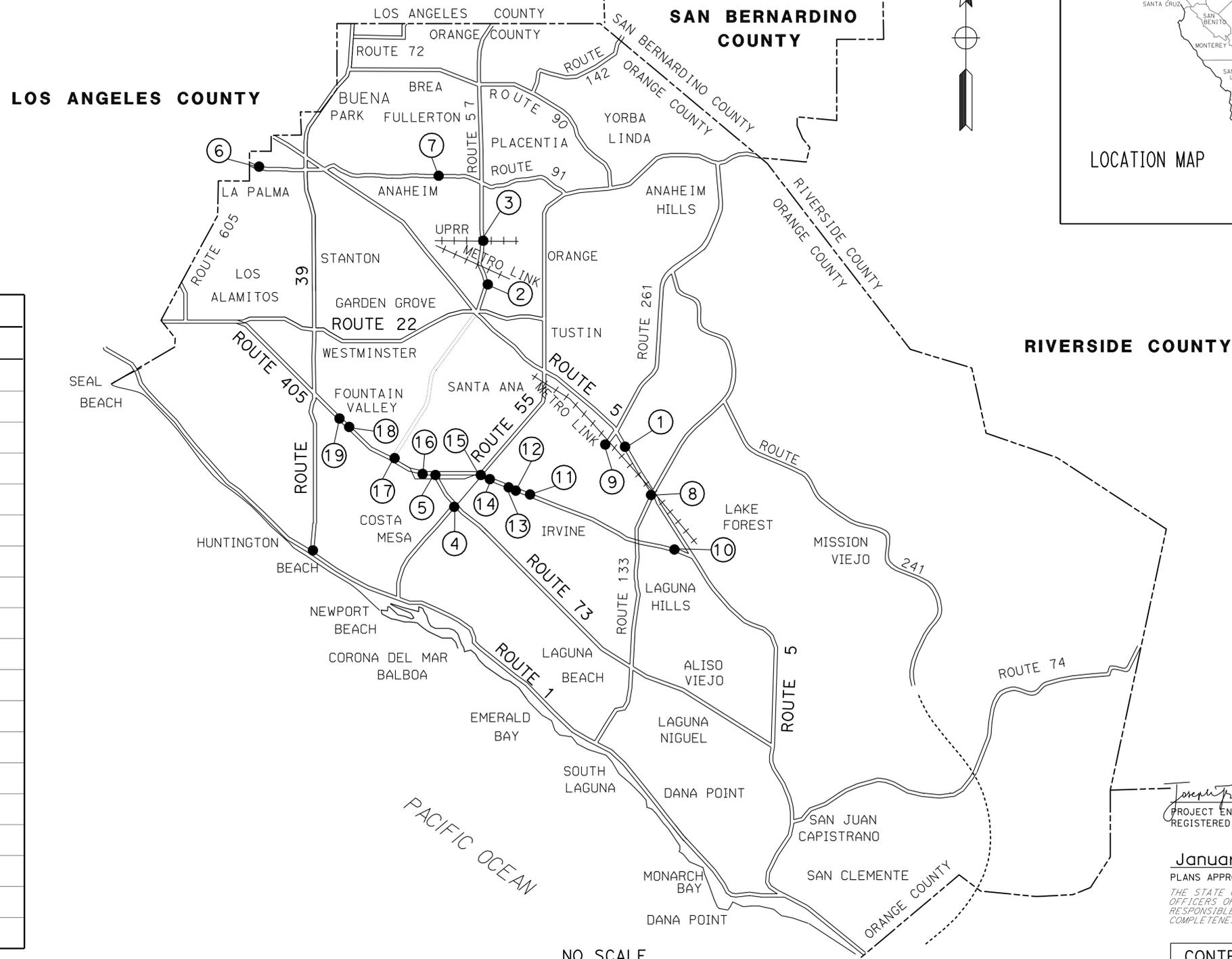
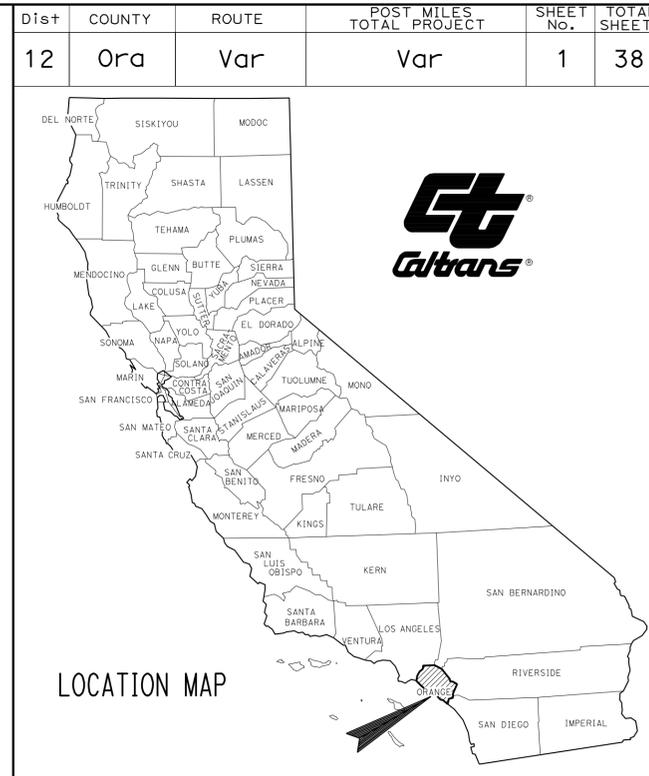
STRUCTURE PLANS

22-38	ROUTES 5, 57, 73, 91, 133, 261 & 405 BRIDGES Br. No. VARIOUS
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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 ORANGE COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010



LOCATIONS OF CONSTRUCTION			
No.	BRIDGE #	ROUTE	POSTMILE
①	55-0197	5	26.59
②	55-0400	57	11.96
③	55-0337	57	12.98
④	55-1028G	73	26.57
⑤	55-0434G	73	27.76
⑥	55-0306	91	0.1
⑦	55-0296L	91	3.85
⑧	55-0773R	133	9.77
⑨	55-0898	261	0.25
⑩	55-0442	405	0.95
⑪	55-0249	405	5.62
⑫	55-0285	405	6.41
⑬	55-0250	405	6.92
⑭	55-0612	405	7.4
⑮	55-0421F	405	8.65
⑯	55-0432	405	10.79
⑰	55-0257	405	11.45
⑱	55-0429	405	13.15
⑲	55-0402	405	13.78

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

Joseph Tran 11-09-12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

January 14, 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.



CONTRACT No.	12-OM3804
PROJECT ID	1212000033

PROJECT MANAGER
MASSOUD TAJIK

DESIGN ENGINEER
JOSEPH TRAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
 REVISIONS: PHAT TRAN, JOSEPH TRAN, J TRAN
 REVISIONS: REVISED BY, DATE REVISED
 CALCULATED/DESIGNED BY, CHECKED BY

NOTES:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL QUANTITIES OF CONSTRUCTION AREA SIGNS, SEE SHEET MIQ-1

LEGEND:

- (X) CONSTRUCTION AREA SIGN
- ⬄ CONSTRUCTION AREA SIGN, MOUNTED ON BARRICADE (TYPE III)
- ⬄ CONSTRUCTION AREA SIGN, 2-POST
- ▬ CONSTRUCTION WORK AREA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	2	38

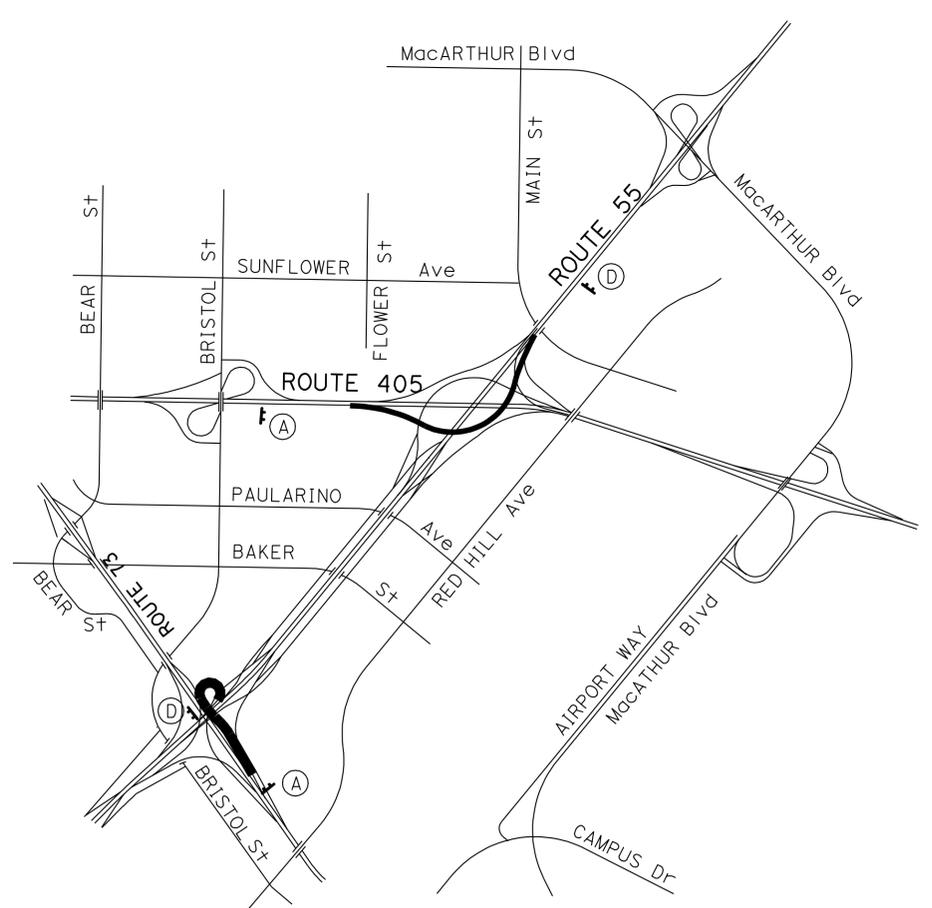
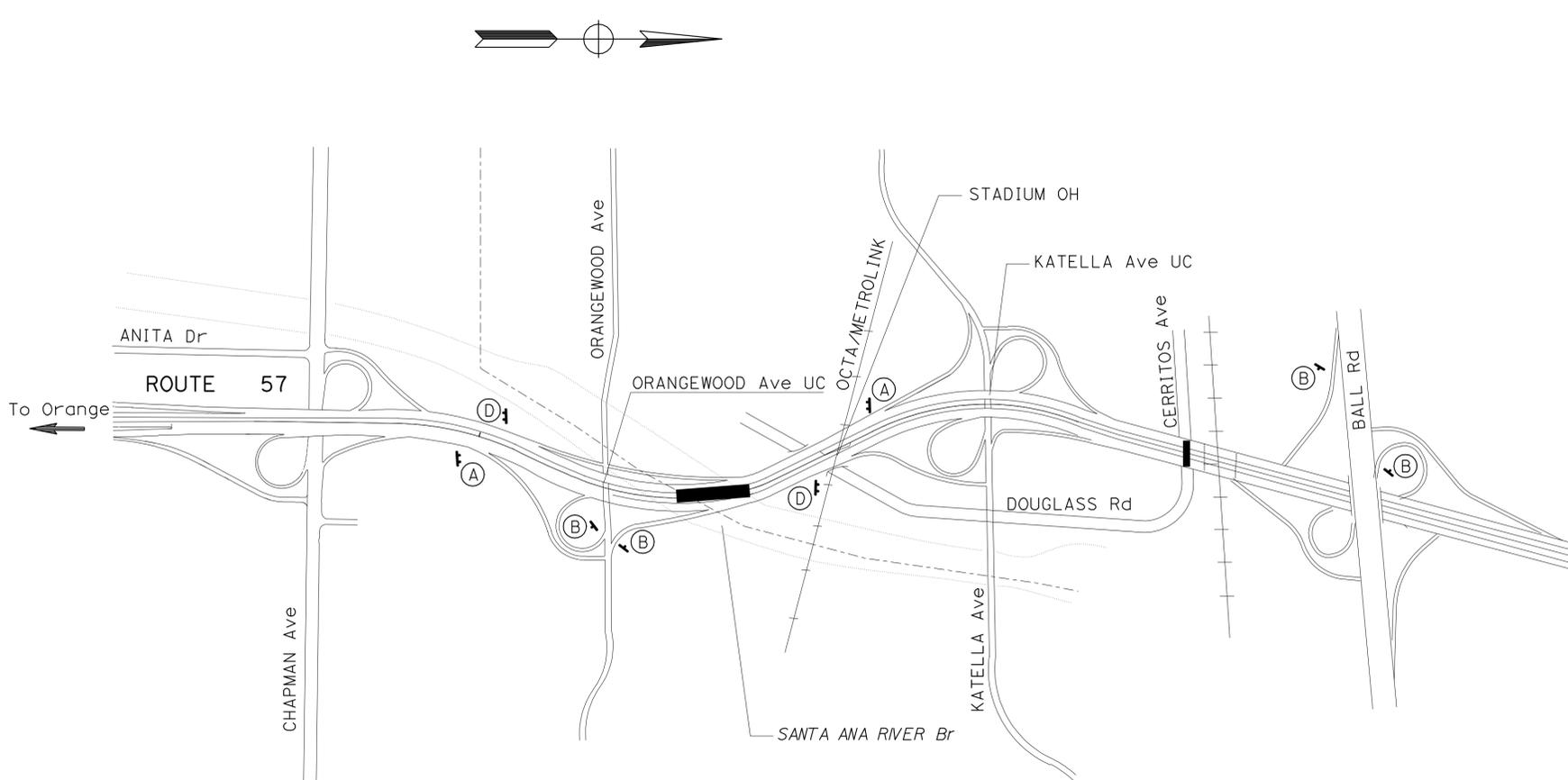
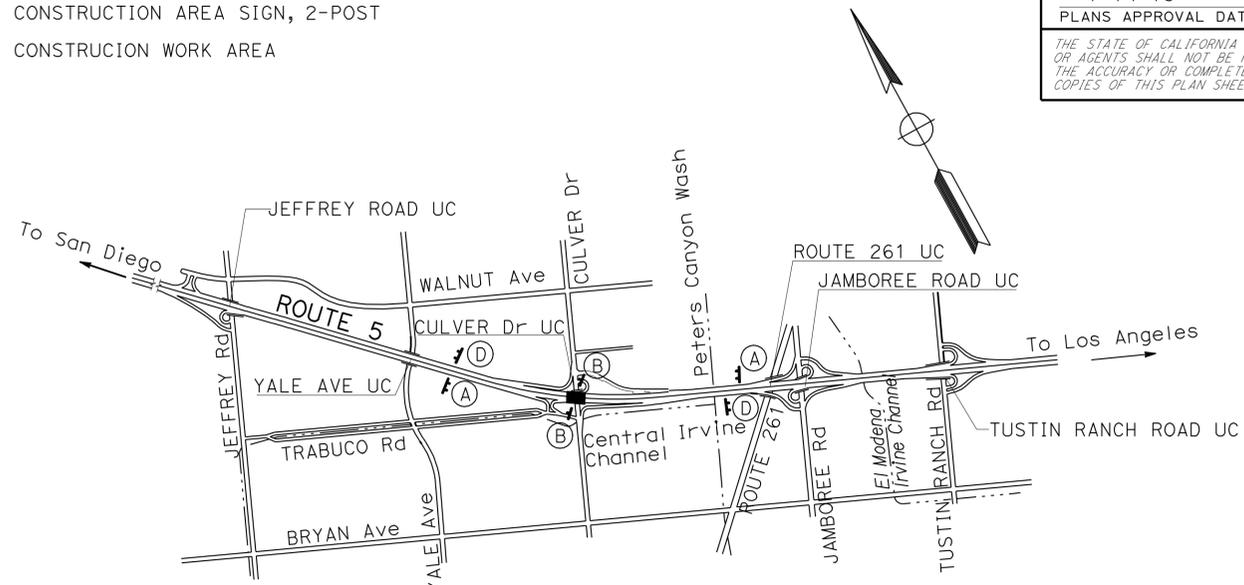
11-09-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE

JOSEPH TRAN
 No. C 59283
 Exp. 6/30/13
 CIVIL

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	TYPE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGN (EA)
(A)	W20-1	72" x 72"	ROAD WORK AHEAD	2 - 6" x 6"	19
(B)	W20-1	48" x 24"	ROAD WORK AHEAD	1 - 4" x 6"	38
(C)	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	7
(D)	G20-2	60" x 24"	END ROAD WORK	2 - 4" x 4"	15
(E)	W21-5	48" x 48"	SHOULDER WORK	1 - 4" x 4"	6
(F)	W21-5b	48" x 48"	RIGHT SHOULDER CLOSED 500 FT	1 - 4" x 4"	6
(G)	C30A(CA)	48" x 48"	SHOULDER CLOSED	1 - 4" x 4"	6
(H)	W11-1	24" x 24"	(BIKE SYMBOL)	1 - 4" x 6"	6
	G20-2	30" x 24"	SHARE THE ROAD		



CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION DATE PLOTTED => 16-JAN-2013 09-17-12 TIME PLOTTED => 13:27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

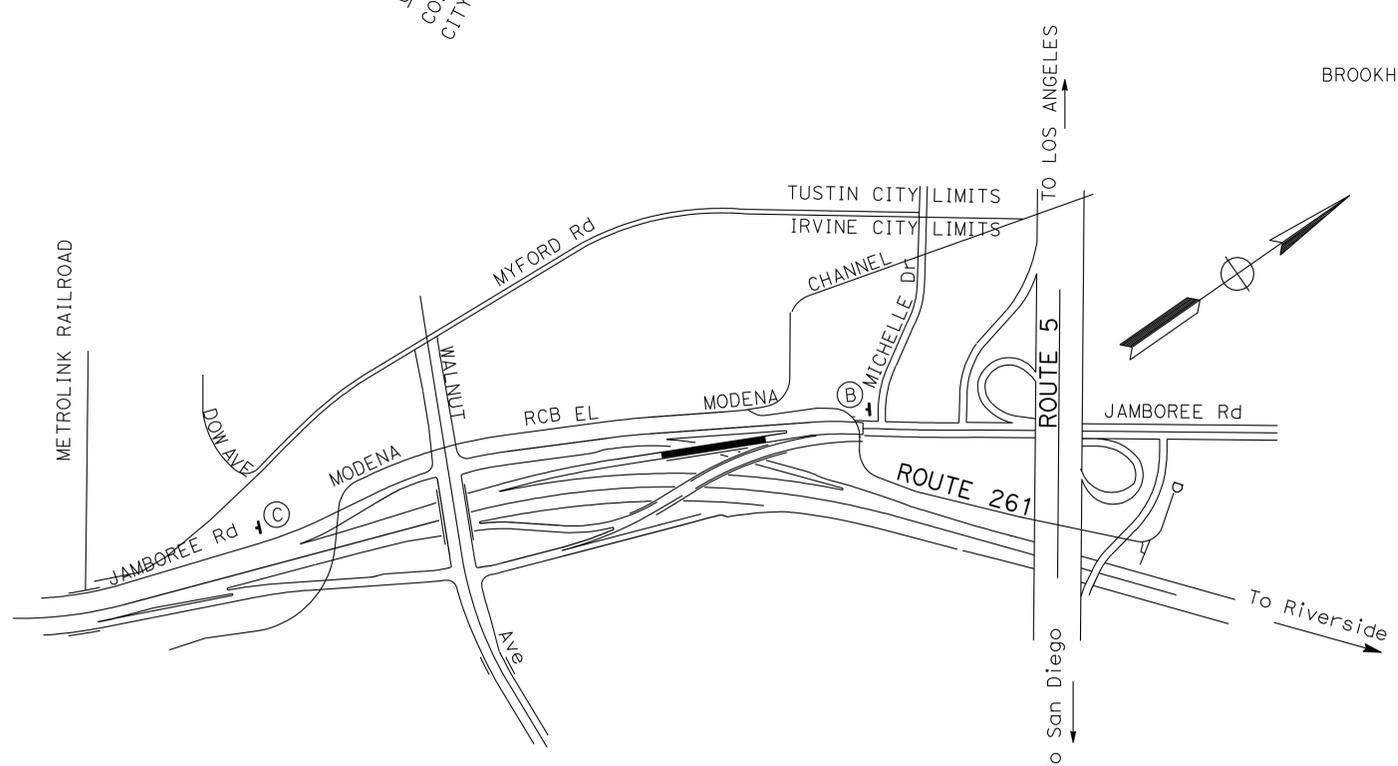
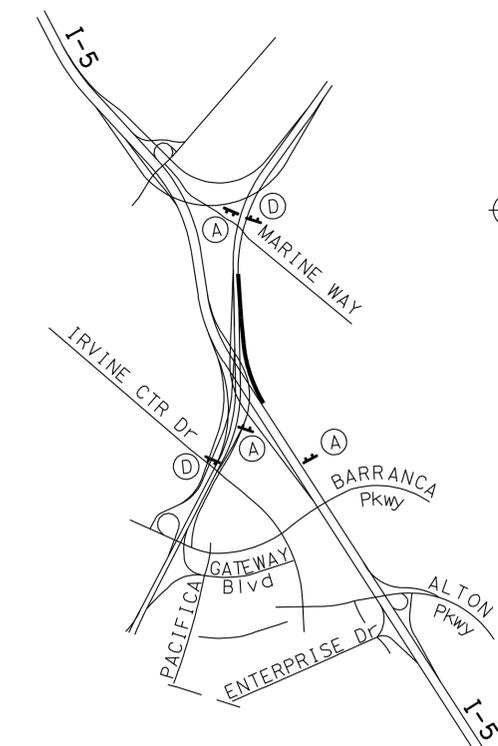
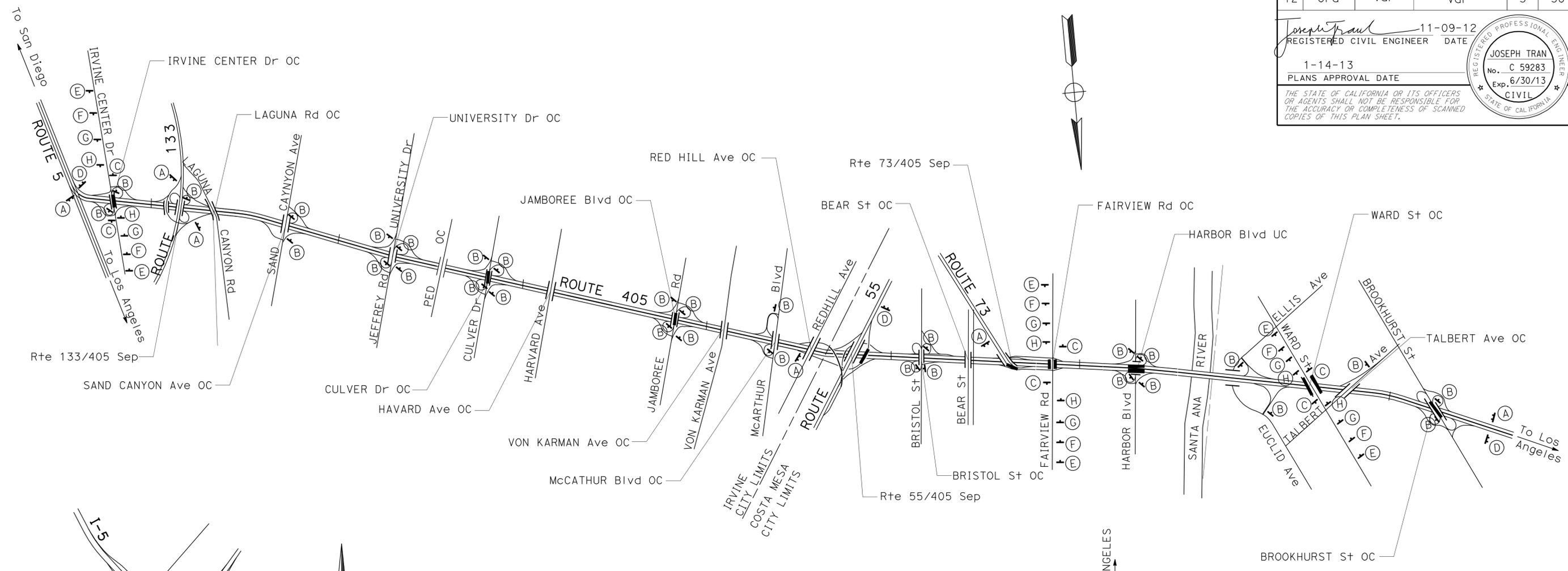
FUNCTIONAL SUPERVISOR MASSOUD TAJIK	PHAT TRAN JOSEPH TRAN	REVISOR J TRAN	DATE 9-17-12
CHECKED BY	CALCULATED/DESIGNED BY	DATE REVISOR	DATE REVISOR

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	3	38

11-09-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 JOSEPH TRAN
 No. C 59283
 Exp. 6/30/13
 CIVIL
 STATE OF CALIFORNIA

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



CONSTRUCTION AREA SIGNS
 NO SCALE
CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION DATE PLOTTED => 16-JAN-2013 09-17-12 TIME PLOTTED => 13:27

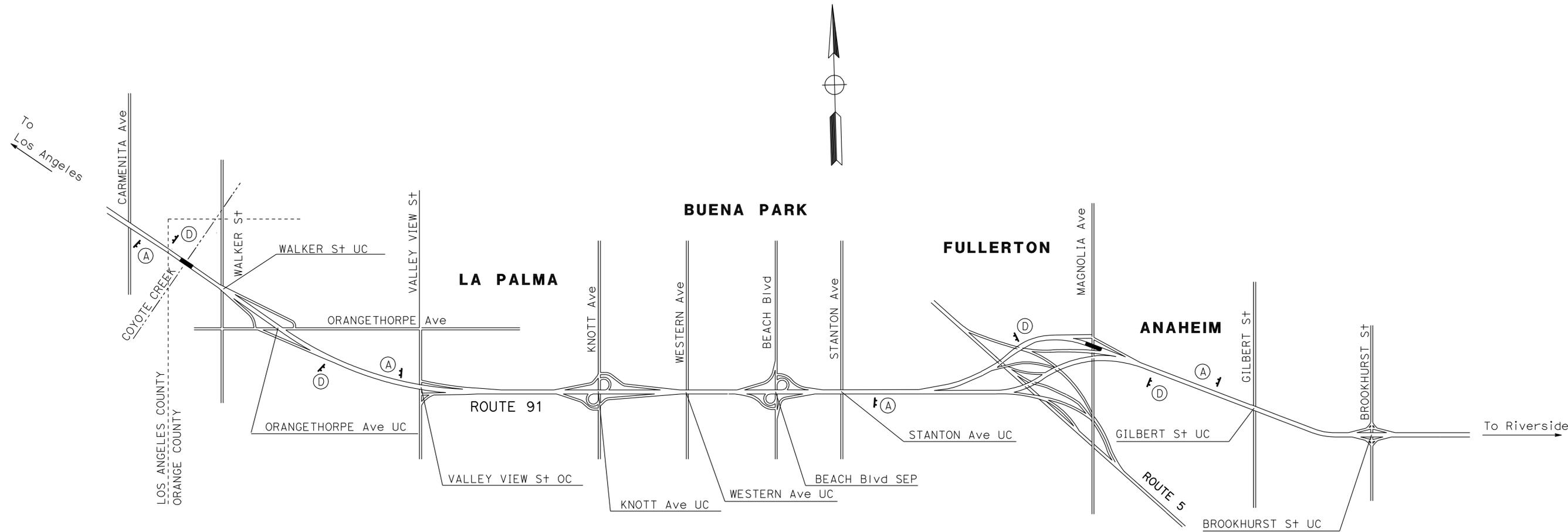
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12	Ora	Var	Var	4	38

12-20-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE

JOSEPH TRAN
 No. C 59283
 Exp. 6/30/13
 CIVIL

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PHAT TRAN	REVISOR	J TRAN
Caltrans	JOSEPH TRAN	DATE	9-17-12
FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	CHECKED BY	
MASSOUD TAJIK			
MAINTENANCE			



CONSTRUCTION AREA SIGNS
 NO SCALE
CS-3

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION | DATE PLOTTED => 16-JAN-2013 | 09-17-12 | TIME PLOTTED => 13:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	5	38

Joseph Tran REGISTERED CIVIL ENGINEER No. C 59283 Exp. 6/30/13 CIVIL	11-09-12 DATE 1-14-13 PLANS APPROVAL DATE
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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:

1. LOCATIONS OF DETOUR SIGNS AND PCMS SHOWN ARE APPROXIMATE, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL QUANTITIES OF CONSTRUCTION AREA SIGNS, SEE SHEET CS-1.

LEGEND:

- DIRECTION OF TRAVEL
- LOCATION OF CLOSURE
- (X) DETOUR SIGN NUMBER

CLOSURE #1:

NB ROUTE 5 CULVER Dr ON RAMP

CLOSURE #2:

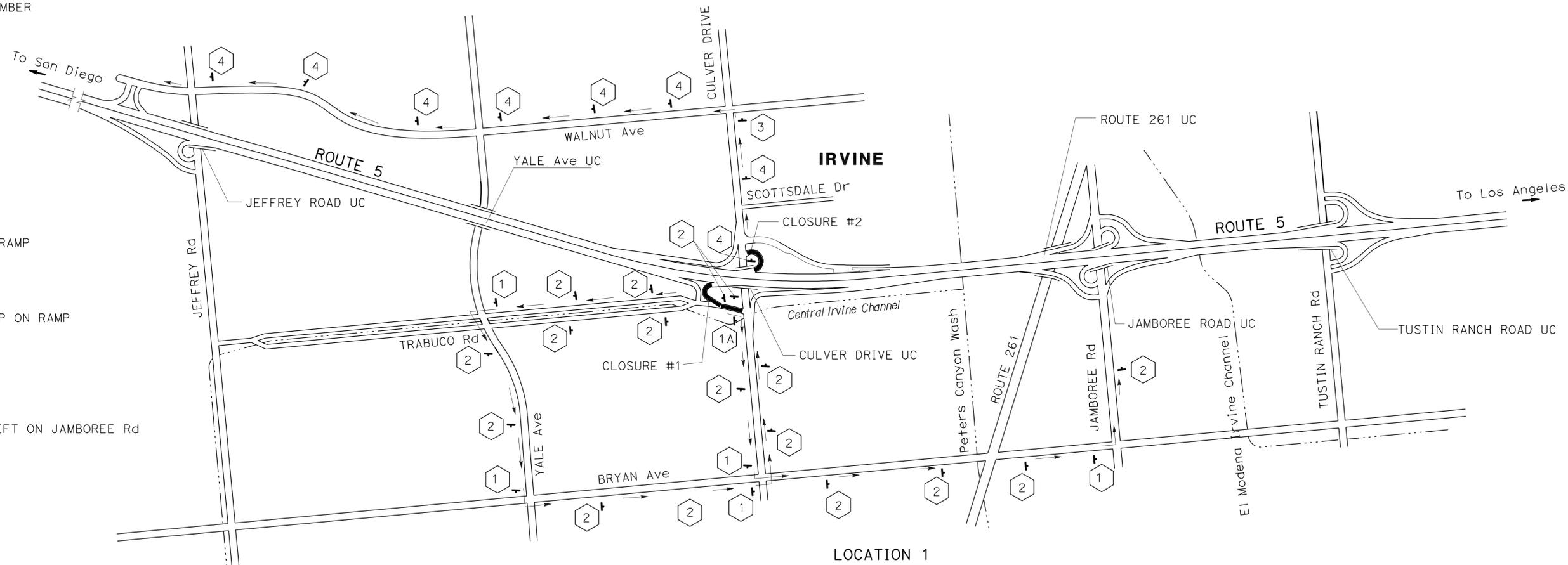
SB ROUTE 5 CULVER Dr LOOP ON RAMP

DETOUR #1:

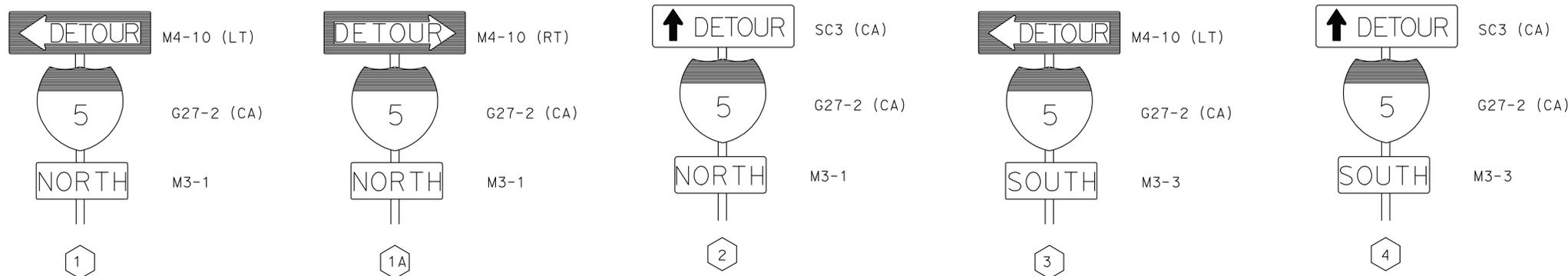
LEFT ON BRYAN Ave, AND LEFT ON JAMBOREE Rd

DETOUR #2:

LEFT ON WALNUT Ave



LOCATION 1
BRIDGE # 55-0197



**MOTORIST INFORMATION PLAN
(LOCATION 1)**

NO SCALE

MI-1

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 PHAT TRAN
 JOSEPH TRAN
 J TRAN
 9-17-12
 REVISOR
 DATE REVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 MASSOUD TAJIK
 BORDER LAST REVISED 7/2/2010

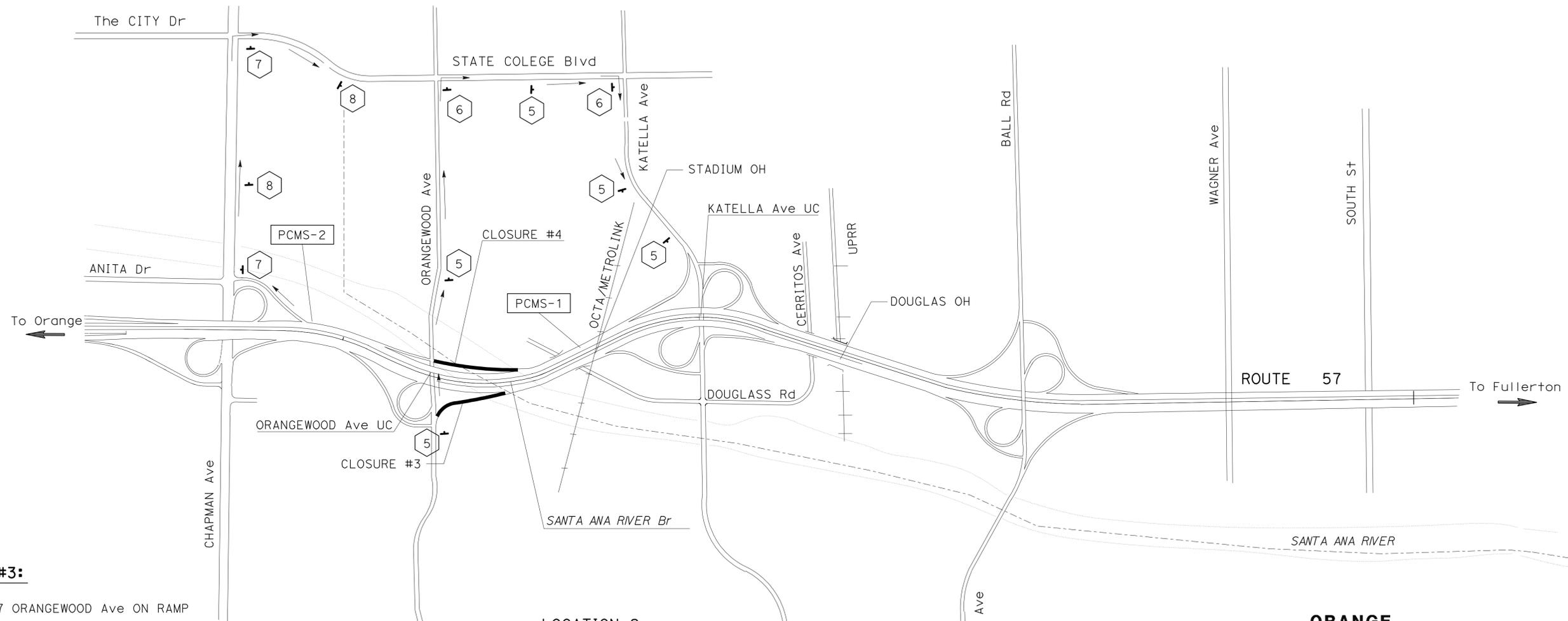
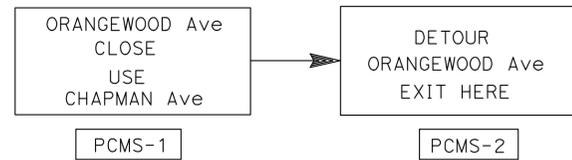
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	6	38

Joseph Tran 11-09-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 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:

DURING THE CLOSURE,
THE PCMS SHOULD READ AS FOLLOWS:



CLOSURE #3:

NB ROUTE 57 ORANGEWOOD Ave ON RAMP

DETOUR #3:

RIGHT ON STATE COLLEGE Blvd, AND RIGHT ON KATELLA Ave

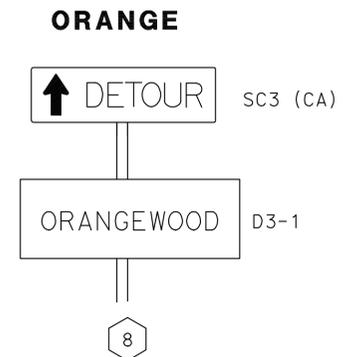
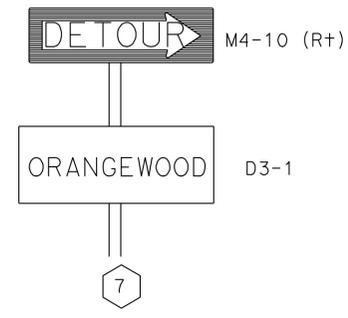
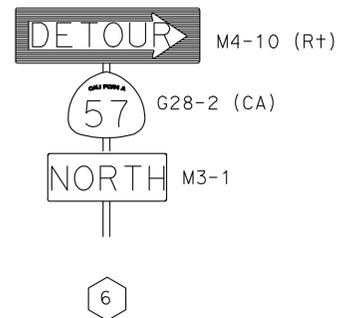
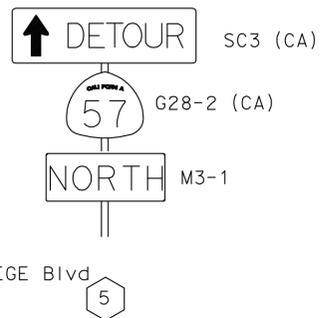
CLOSURE #4:

SB ROUTE 57 ORANGEWOOD Ave OFF RAMP

DETOUR #4:

Exit CHAPMAN Ave, RIGHT ON CHAPMAN Ave, AND RIGHT ON The CITY Dr/STATE COLLEGE Blvd

LOCATION 2
BRIDGE # 55-0400



MOTORIST INFORMATION PLAN (LOCATION 2)

NO SCALE

MI-2

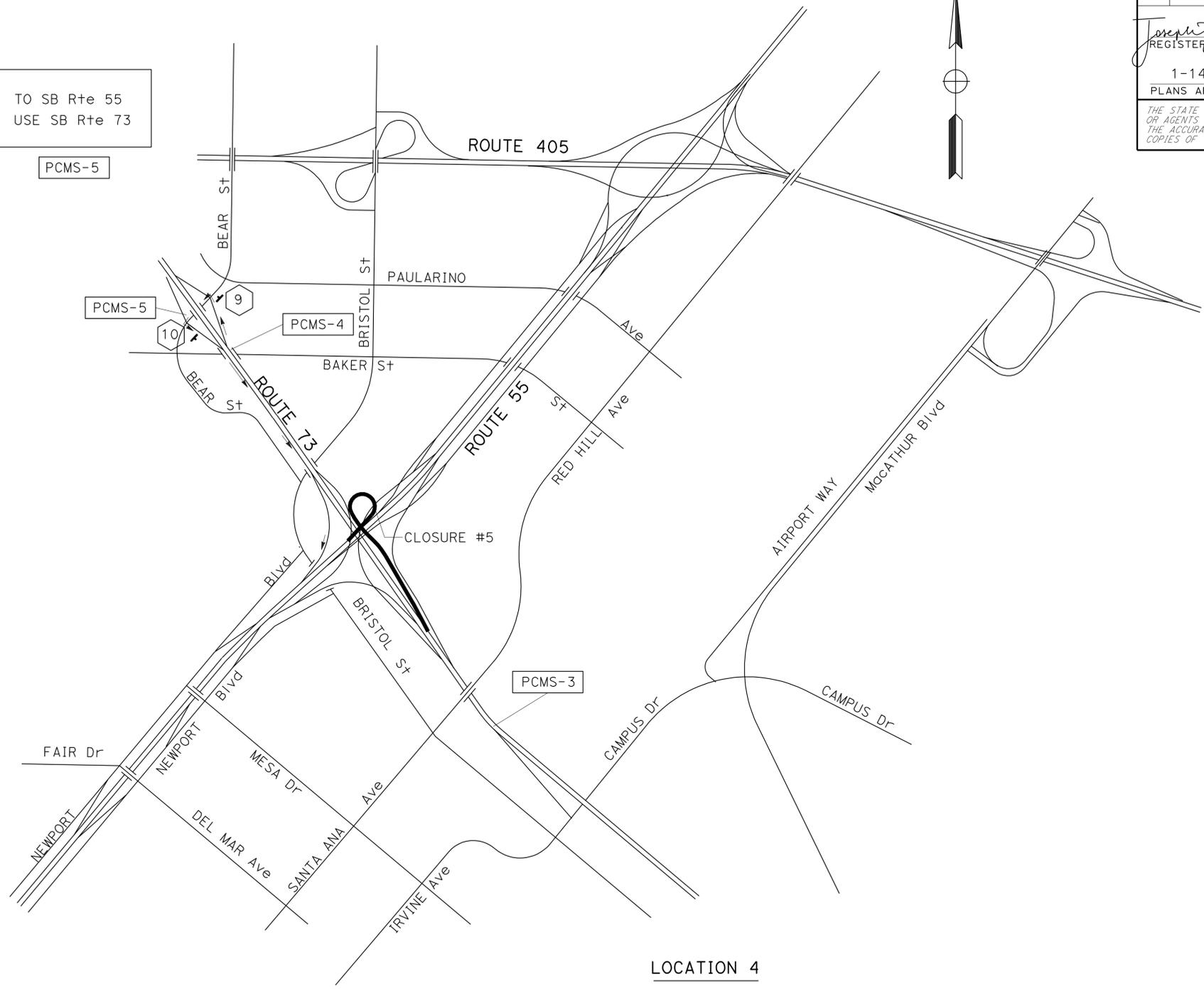
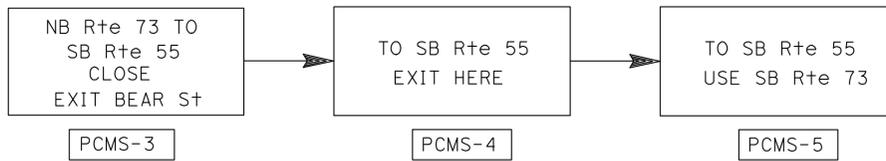
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 FUNCTIONAL SUPERVISOR MASSOUD TAJIK
 CALCULATED/DESIGNED BY CHECKED BY
 PHAT TRAN JOSEPH TRAN
 REVISED BY DATE REVISED
 J TRAN 9-17-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	7	38

Joseph Tran 11-09-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 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:

DURING THE CLOSURE,
THE PCMS SHOULD READ AS FOLLOWS:

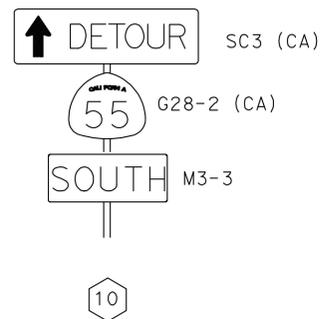
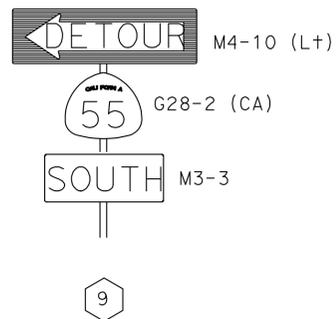


CLOSURE #5:

NB Rte 73 TO SB Rte 55 CONNECTOR

DETOUR:

Exit BEAR St, LEFT ON BEAR St, LEFT ON SB Rte 73



LOCATION 4
BRIDGE # 55-1028G

**MOTORIST INFORMATION PLAN
(LOCATION 4)**

NO SCALE

MI-3

APPROVED FOR MOTORIST INFORMATION WORK ONLY

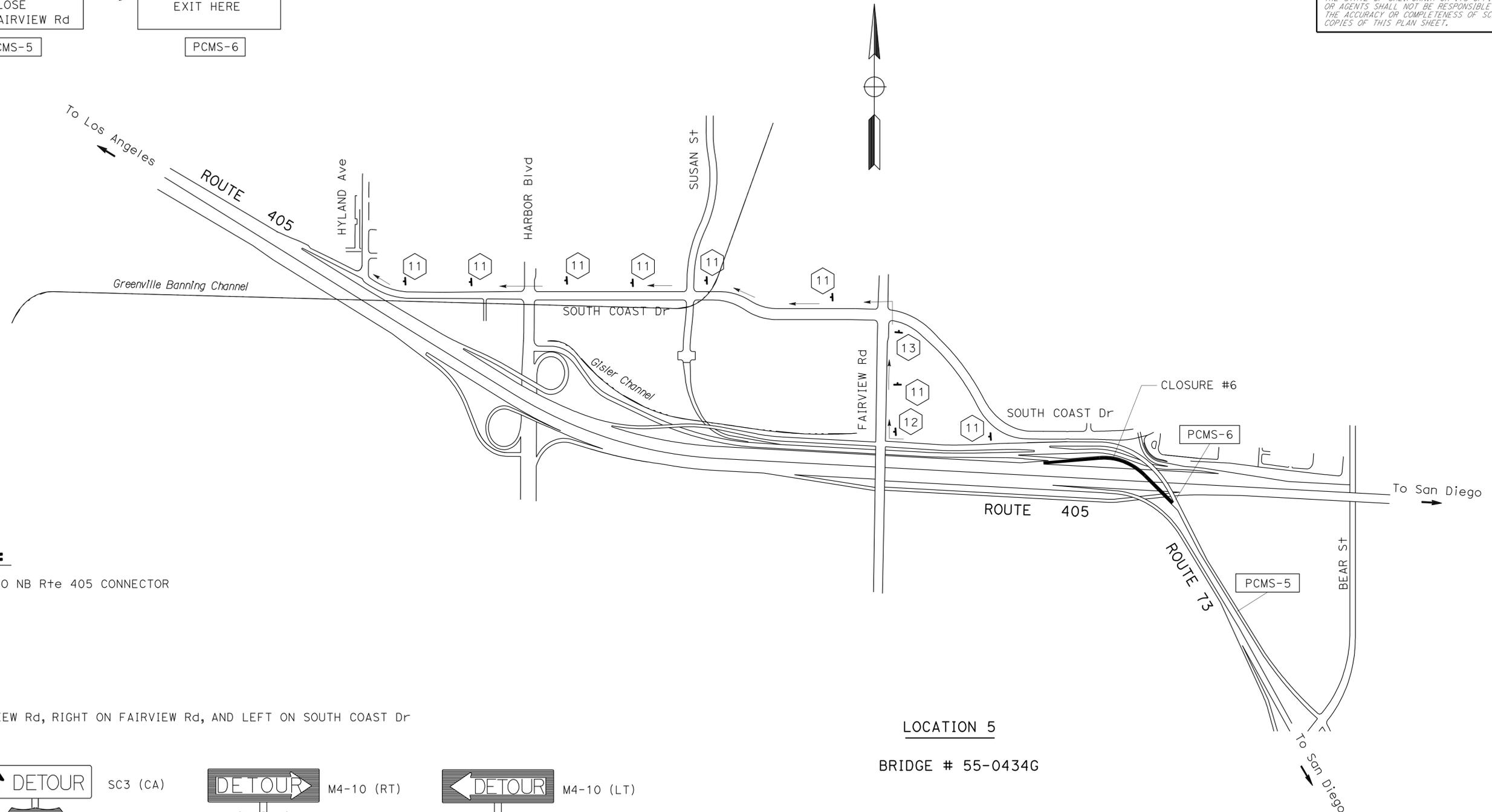
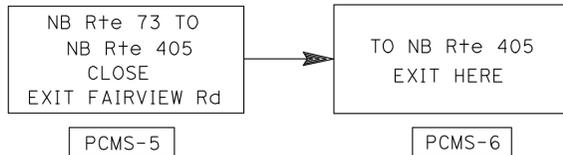
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	MAINTENANCE
FUNCTIONAL SUPERVISOR	MASSOUD TAJIK
CALCULATED/DESIGNED BY	CHECKED BY
PHAT TRAN	JOSEPH TRAN
REVISOR	DATE
J TRAN	9-17-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	8	38

Joseph Tran REGISTERED CIVIL ENGINEER No. C 59283 Exp. 6/30/13 CIVIL	11-09-12 DATE
1-14-13 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>	

NOTES:

DURING THE CLOSURE,
THE PCMS SHOULD READ AS FOLLOWS:

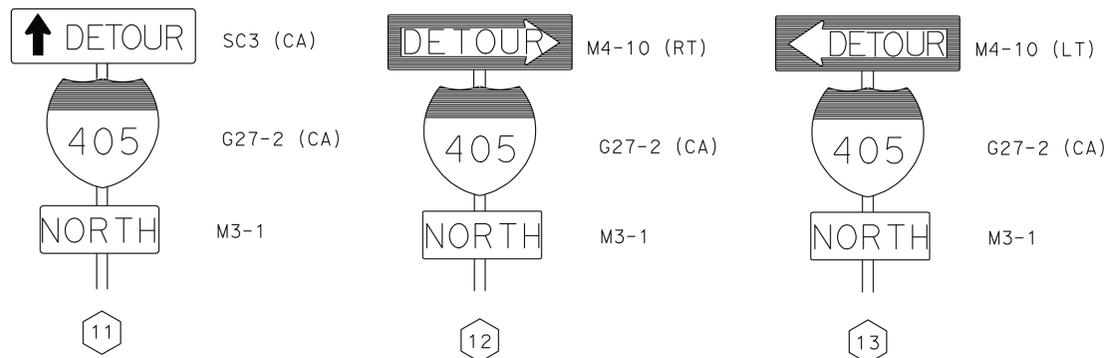


CLOSURE #6:

NB Rte 73 TO NB Rte 405 CONNECTOR

DETOUR:

Exit FAIRVIEW Rd, RIGHT ON FAIRVIEW Rd, AND LEFT ON SOUTH COAST Dr



LOCATION 5
BRIDGE # 55-0434G

**MOTORIST INFORMATION PLAN
(LOCATION 5)**

NO SCALE

MI-4

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 PHAT TRAN
 JOSEPH TRAN
 J TRAN
 9-17-12
 REVISOR BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 MASSOUD TAJIK
 USERNAME => s114640
 DGN FILE => 1212000033mg004.dgn

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	9	38

Joseph Paul REGISTERED CIVIL ENGINEER No. C 59283 Exp. 6/30/13 CIVIL	11-09-12 DATE
1-14-13 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>	

NOTES:

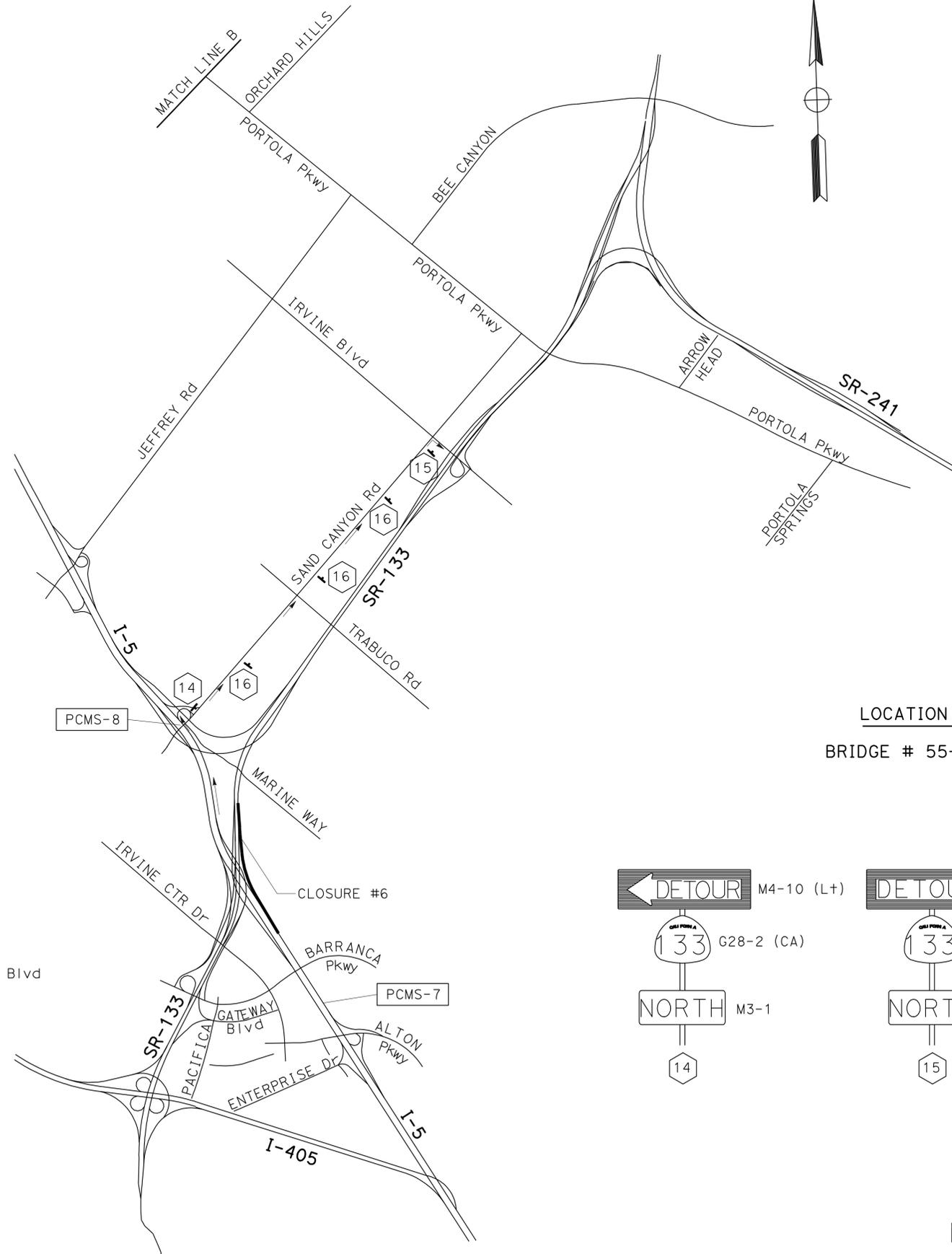
DURING THE CLOSURE,
THE PCMS SHOULD READ AS FOLLOWS:

NB Rte 5 TO
NB Rte 133
CLOSE
EXIT SAND CANYON

PCMS-7

TO NB Rte 133
EXIT HERE

PCMS-8



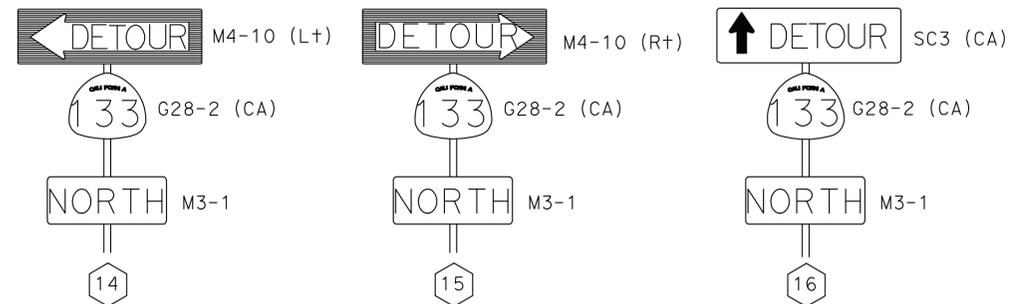
LOCATION 8
BRIDGE # 55-0773R

CLOSURE #7:

NB Rte 5 TO NB Rte 133 CONNECTOR

DETOUR:

EXIT SAND CANYON Rd, LEFT SAND CANYON Rd, AND RIGHT ON IRVINE Blvd



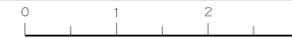
**MOTORIST INFORMATION PLAN
(LOCATION 8)**

NO SCALE

MI-5

APPROVED FOR MOTORIST INFORMATION WORK ONLY

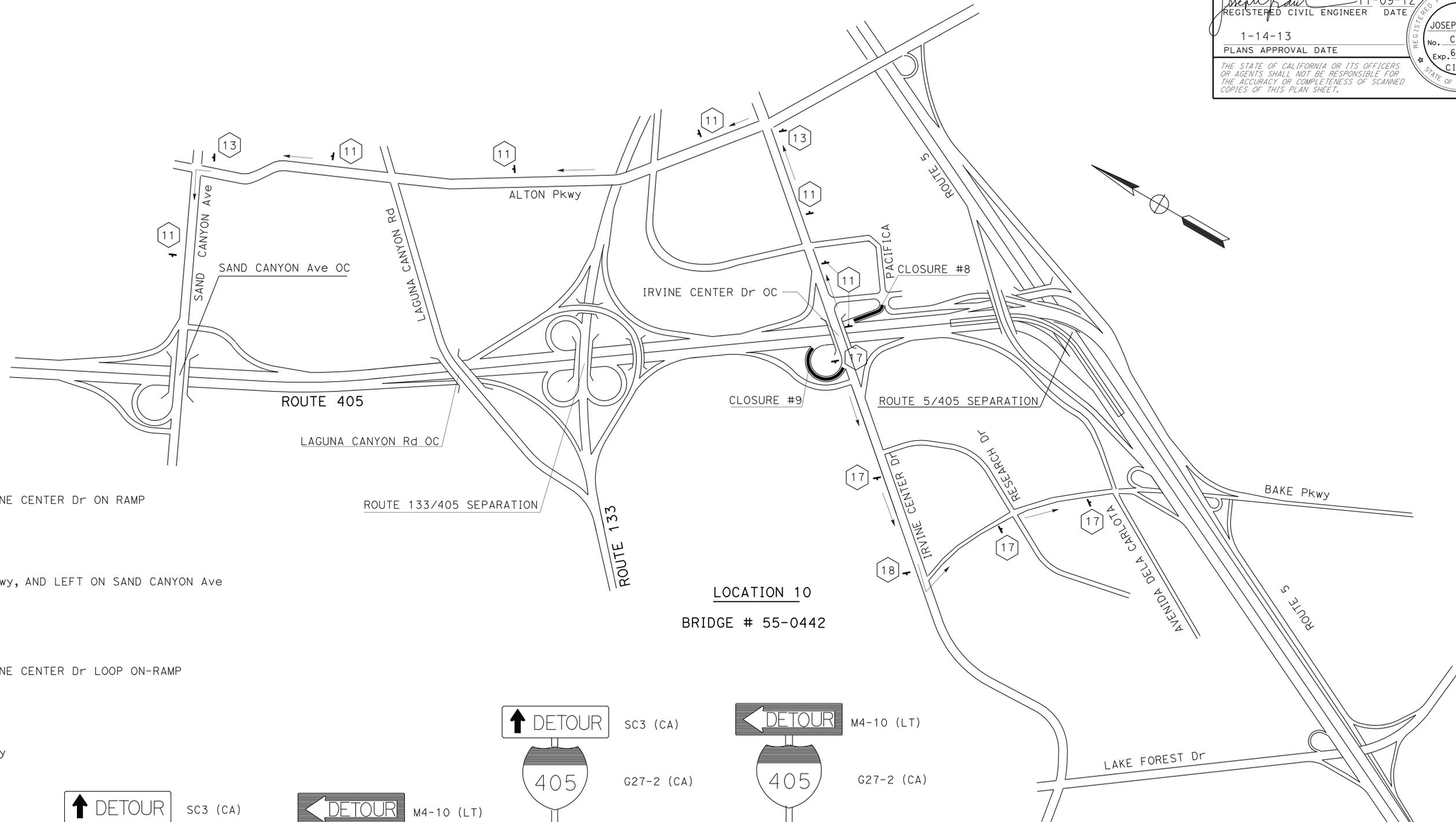
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	MAINTENANCE
FUNCTIONAL SUPERVISOR	MASSOUD TAJIK
CALCULATED/DESIGNED BY	CHECKED BY
PHAT TRAN	JOSEPH TRAN
REVISOR	DATE
J TRAN	9-17-12



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	10	38

Joseph Tran 11-09-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 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
JOSEPH TRAN
 No. C 59283
 Exp. 6/30/13
 CIVIL
 STATE OF CALIFORNIA



CLOSURE #8:

NB ROUTE 405 IRVINE CENTER Dr ON RAMP

DETOUR:

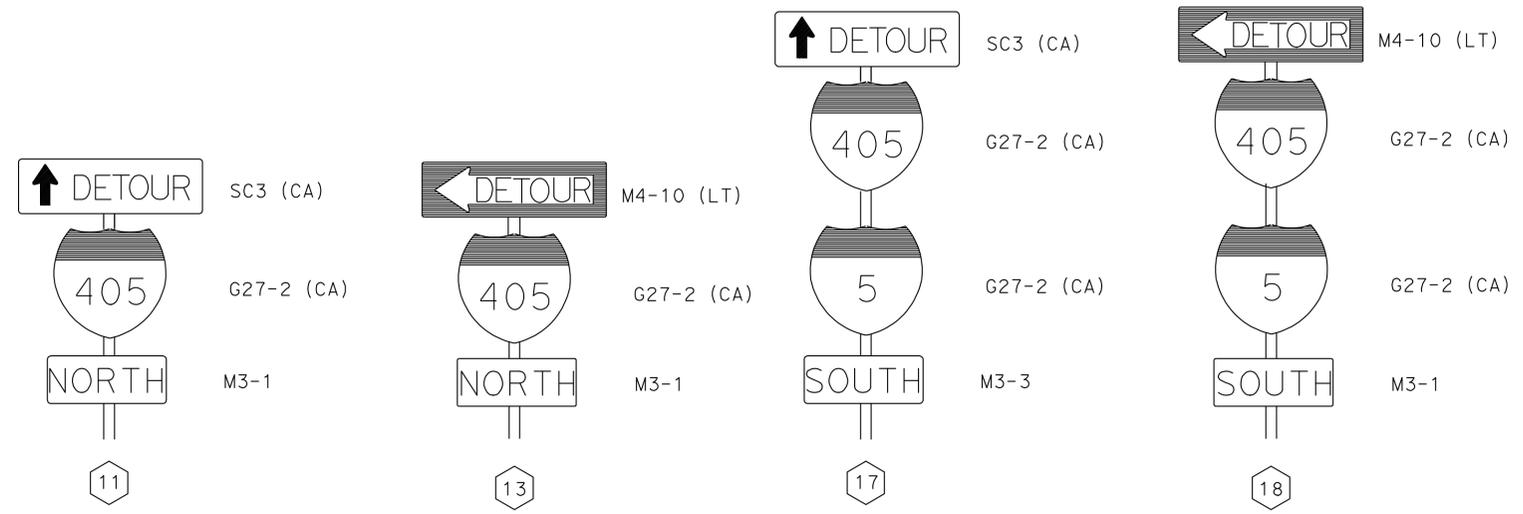
LEFT ON ALTON Pkwy, AND LEFT ON SAND CANYON Ave

CLOSURE #9:

SB Route 405 IRVINE CENTER Dr LOOP ON-RAMP

DETOUR:

LEFT ON BAKE Pkwy



**MOTORIST INFORMATION PLAN
(LOCATION 10)**

NO SCALE

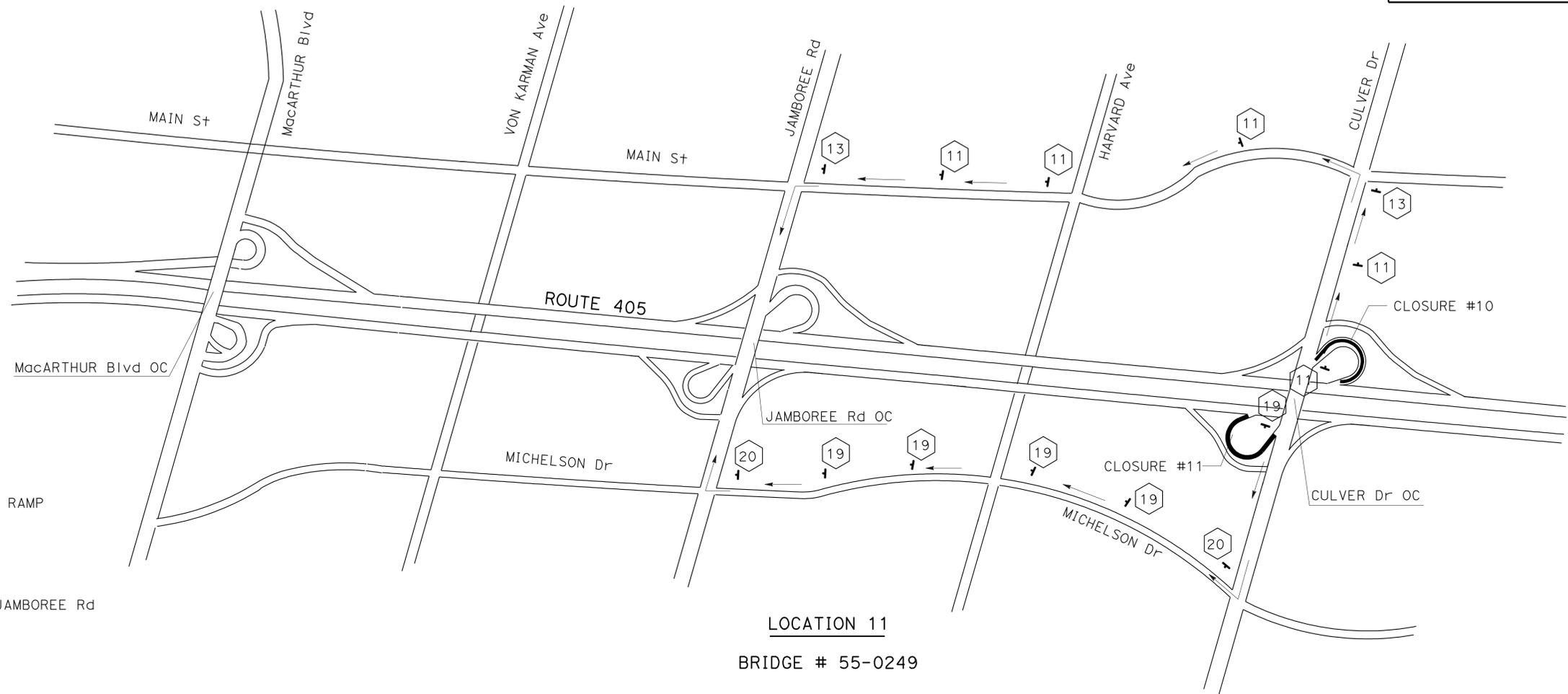
MI-6

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 PHAT TRAN
 JOSEPH TRAN
 J TRAN
 9-17-12
 REVISOR BY
 DATE REVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 MASSOUD TAJIK
 BORDER LAST REVISED 7/2/2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	11	38

Joseph Tran 11-09-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE
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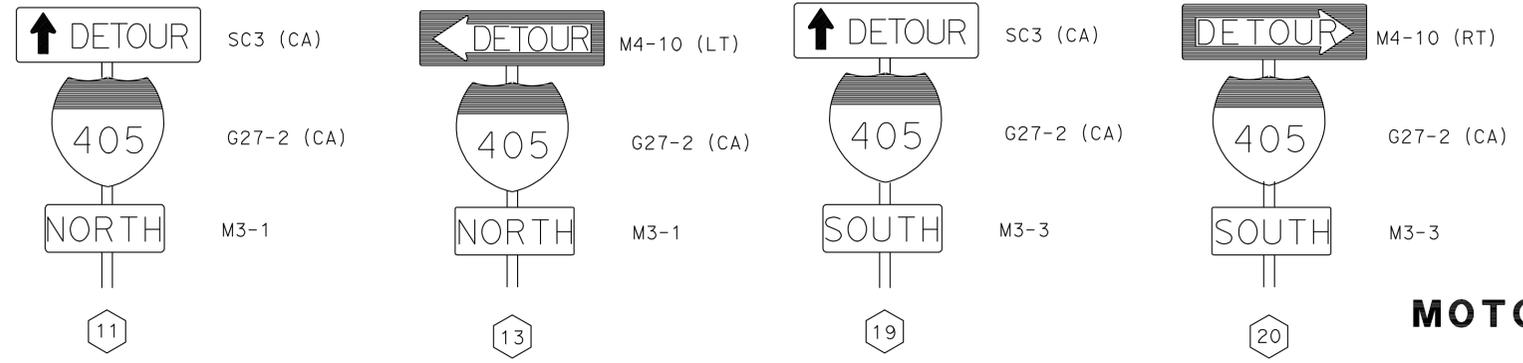
LOCATION 11
 BRIDGE # 55-0249

CLOSURE #10:
 NB ROUTE 405 CULVER Dr LOOP ON RAMP

DETOUR:
 LEFT ON MAIN St, AND LEFT ON JAMBOREE Rd

CLOSURE #11:
 SB Route 405 CULVER Dr LOOP ON-RAMP

DETOUR:
 RIGHT ON MICHELSON Dr, AND RIGHT ON JAMBOREE Rd



MOTORIST INFORMATION PLAN
(LOCATION 11)
 NO SCALE
MI-7

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 PHAT TRAN
 JOSEPH TRAN
 J TRAN
 9-17-12
 REVISOR BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 MASSOUD TAJIK
 BORDER LAST REVISED 7/2/2010

USERNAME => s114640
 DGN FILE => 1212000033mg007.dgn



UNIT 3064

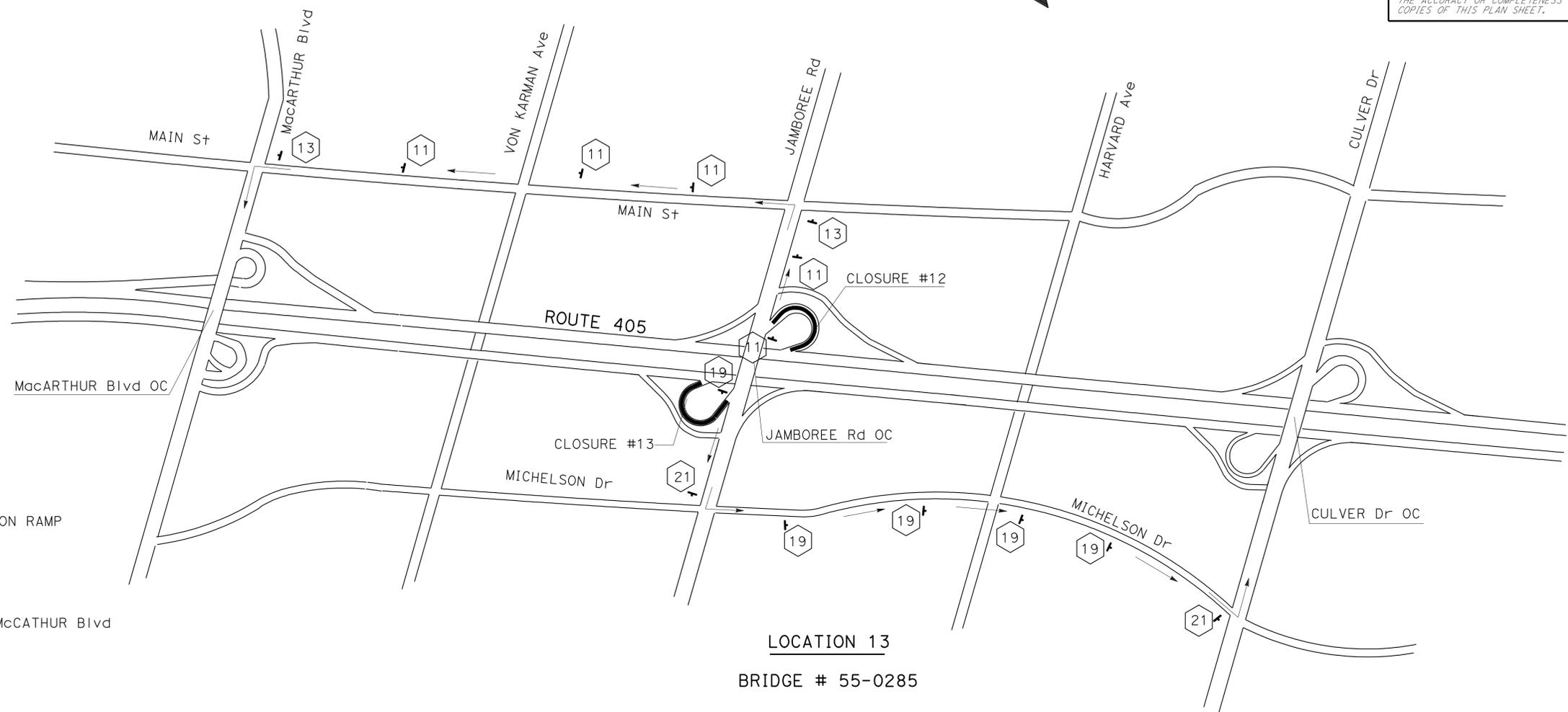
PROJECT NUMBER & PHASE

12120000331

LAST REVISION DATE PLOTTED => 16-JAN-2013
 09-17-12 TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	12	38

Joseph Tran 11-09-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE
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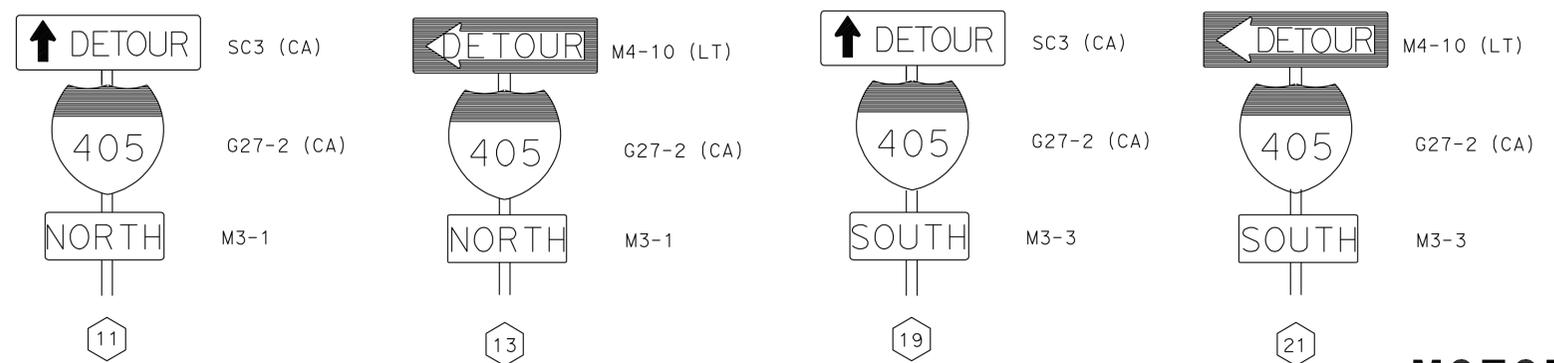


CLOSURE #12:
NB ROUTE 405 JAMBOREE Rd LOOP ON RAMP

DETOUR:
LEFT ON MAIN St, AND LEFT ON McCATHUR Blvd

CLOSURE #13:
SB Route 405 JAMBOREE Rd LOOP ON-RAMP

DETOUR:
LEFT ON MICHELSON Dr, AND LEFT ON CULVER Dr



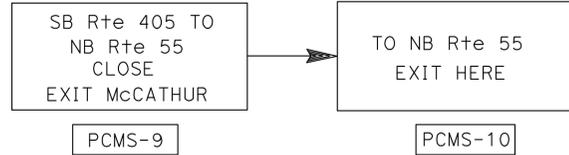
**MOTORIST INFORMATION PLAN
(LOCATION 13)**
NO SCALE
MI-8

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 PHAT TRAN
 JOSEPH TRAN
 J TRAN
 9-17-12
 REVISOR BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 MASSOUD TAJIK
 LAST REVISION DATE PLOTTED => 16-JAN-2013
 09-17-12 TIME PLOTTED => 13:28

NOTES:

DURING THE CLOSURE,
 THE PCMS SHOULD READ AS FOLLOWS:



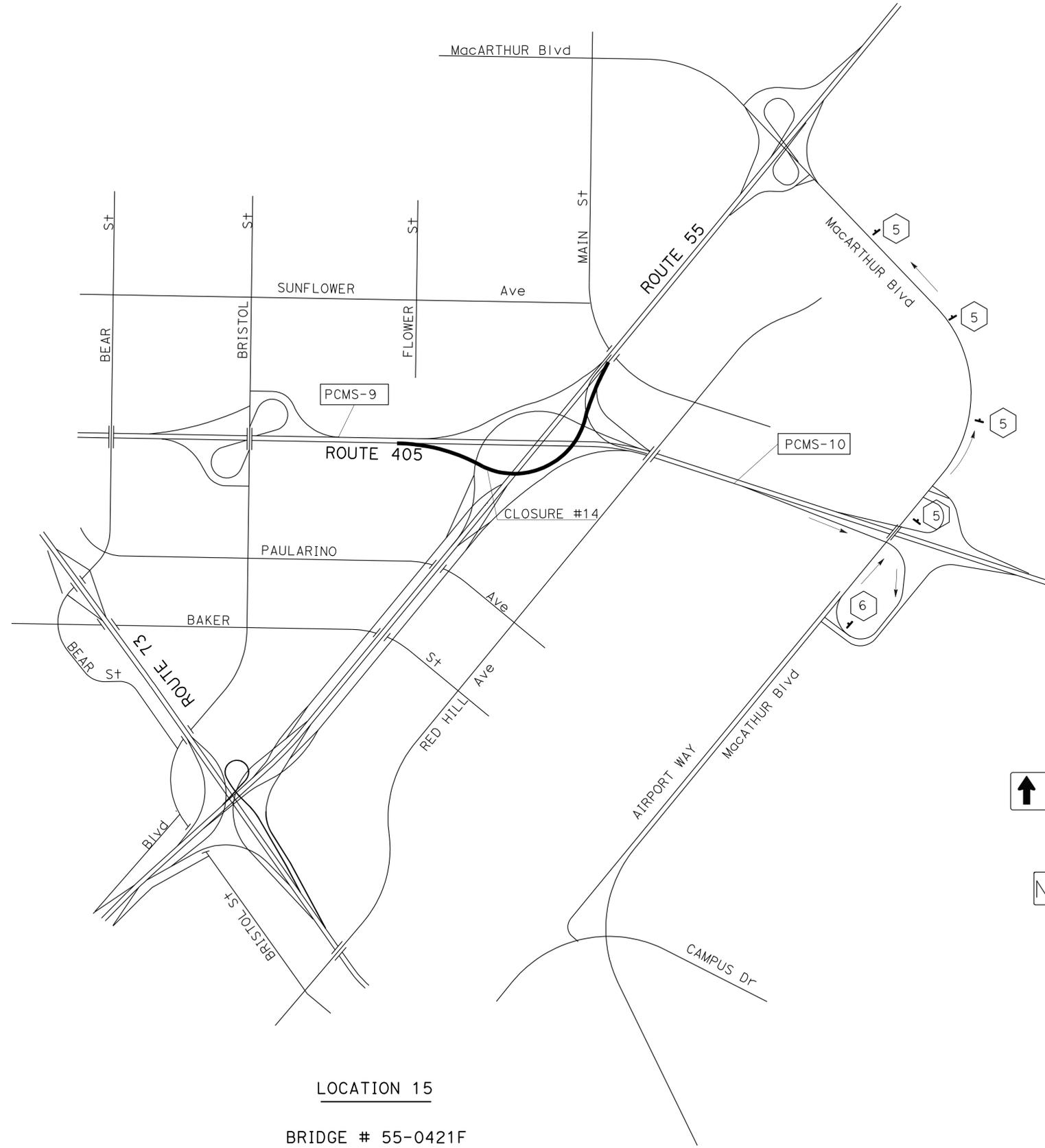
REVISOR	DATE
J TRAN	9-17-12
PHAT TRAN	JOSEPH TRAN
CALCULATED/DESIGNED BY	CHECKED BY
MASSOUD TAJIK	

CLOSURE #14:

SB Rte 405 TO NB Rte 55 CONNECTOR

DETOURS:

Exit McCATHUR Blvd, RIGHT ON McCATHUR Blvd



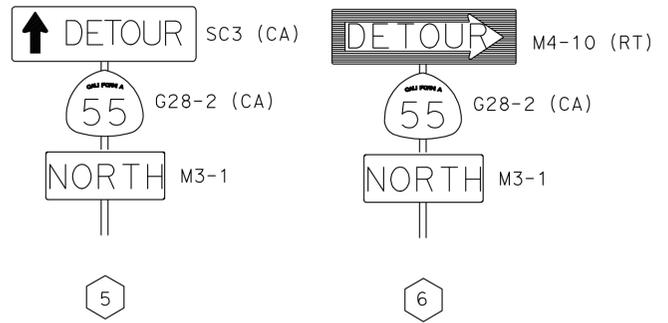
LOCATION 15
 BRIDGE # 55-0421F

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	13	38

11-09-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE

JOSEPH TRAN
 No. C 59283
 Exp. 6/30/13
 CIVIL

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**MOTORIST INFORMATION PLAN
 (LOCATION 15)**

NO SCALE

MI-9

APPROVED FOR MOTORIST INFORMATION WORK ONLY

LAST REVISION DATE PLOTTED => 16-JAN-2013 09-17-12 TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	14	38

Joseph Tran 11-09-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
 CALCULATED/DESIGNED BY: PHAT TRAN
 CHECKED BY: JOSEPH TRAN
 REVISED BY: J. TRAN
 DATE REVISED: 9-17-12



CLOSURE #15:

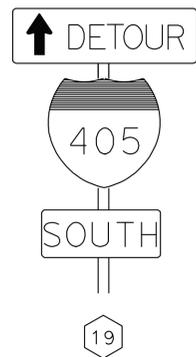
SB Rte 405 HARBOR Blvd LOOP ON-RAMP

LOCATION 17

BRIDGE # 55-0257

DETOUR:

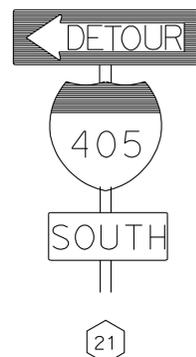
LEFT ON BAKER St, AND LEFT ON FAIRVIEW Rd



SC3 (CA)

G27-2 (CA)

M3-3



M4-10 (LT)

G27-2 (CA)

M3-3

**MOTORIST INFORMATION PLAN
(LOCATION 17)
NO SCALE**

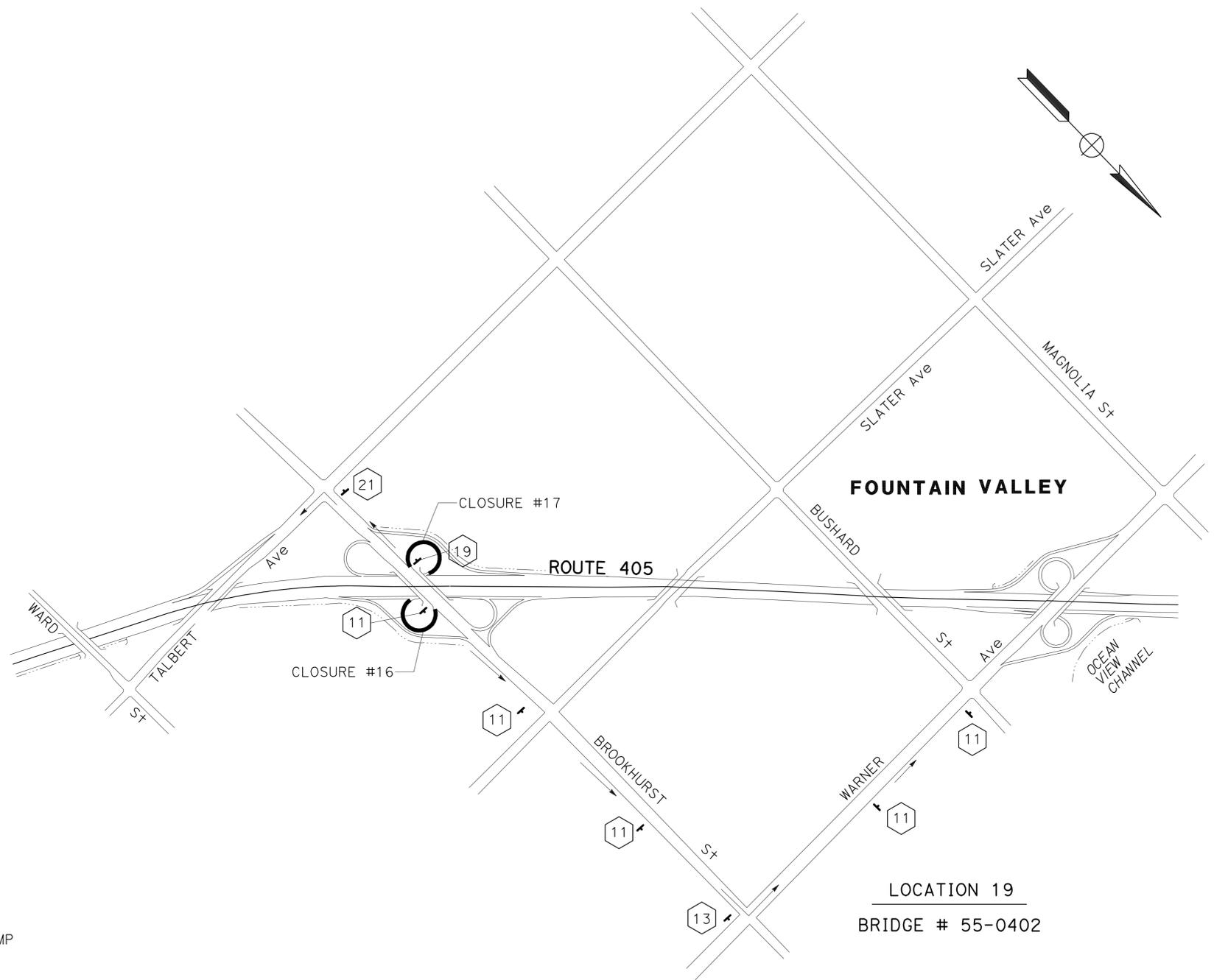
MI-10

APPROVED FOR MOTORIST INFORMATION WORK ONLY



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	15	38

Joseph Tran 11-09-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 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.

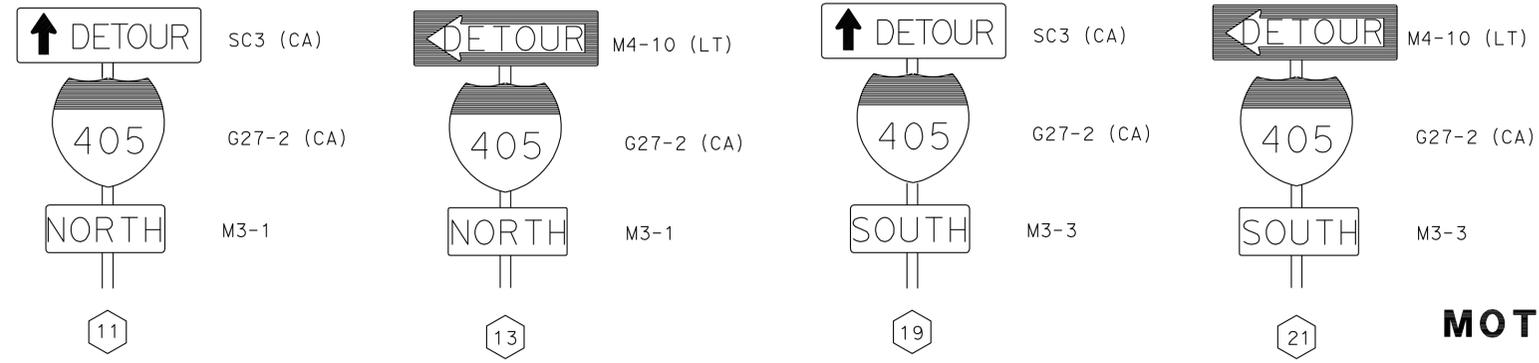


CLOSURE #16:
NB R+e 405 BROOKHURST St LOOP ON-RAMP

DETOUR:
LEFT ON WANER Ave

CLOSURE #17:
SB R+e 405 BROOKHURST St LOOP ON-RAMP

DETOUR:
LEFT ON TALBERT Ave



**MOTORIST INFORMATION PLAN
(LOCATION 19)
NO SCALE**

MI-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 FUNCTIONAL SUPERVISOR MASSOUD TAJIK
 CALCULATED/DESIGNED BY CHECKED BY
 PHAT TRAN JOSEPH TRAN
 REVISED BY DATE REVISED
 3/1/12 9-17-12

NOTES:

- ALL SIGNS ARE STATIONARY MOUNTED. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- FOR ADDITIONAL QUANTITIES OF CONSTRUCTION AREA SIGNS, SEE SHEET CS-1.

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

TYPE	No. OF SIGNS	MESSAGE
PCMS	10	TO BE DETERMINED BY ENGINEER

STATIONARY MOUNTED CONSTRUCTION AREA SIGN

SHEET No.	DETOUR SIGN TYPE	POST SIZE (IN)	NO. OF SIGNS (EA)	NO. OF POSTS
DE-1	1	4 x 6	5	5
	1A	4 x 6	1	1
	2	4 x 6	17	17
	3	4 x 6	1	1
DE-2	4	4 x 6	8	8
	5	4 x 6	5	5
	6	4 x 6	2	2
	7	4 x 6	2	2
DE-3	8	4 x 6	2	2
	9	4 x 6	1	1
	10	4 x 6	1	1
DE-4	11	4 x 6	8	8
	12	4 x 6	1	1
	13	4 x 6	1	1
DE-5	14	4 x 6	1	1
	15	4 x 6	1	1
	16	4 x 6	3	3
DE-6	17	4 x 6	2	2
	18	4 x 6	4	4
	18	4 x 6	1	1
	18	4 x 6	1	1
DE-7	11	4 x 6	5	5
	13	4 x 6	2	2
	19	4 x 6	5	5
	20	4 x 6	2	2
DE-8	11	4 x 6	5	5
	13	4 x 6	2	2
	19	4 x 6	5	5
	21	4 x 6	2	2
SUBTOTAL (1)			102	

STATIONARY MOUNTED CONSTRUCTION AREA SIGN

SHEET No.	DETOUR SIGN TYPE	POST SIZE (IN)	No. OF SIGNS (EA)	No. OF POSTS
DE-9	5	4 x 6	4	4
	6	4 x 6	1	1
DE-10	19	4 x 6	7	7
	21	4 x 6	2	2
DE-11	11	4 x 6	5	5
	13	4 x 6	1	1
	19	4 x 6	1	1
21	4 x 6	1	1	
SUBTOTAL (2)			22	
SUBTOTAL (1)			102	
TOTAL			124	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	16	38

REGISTERED CIVIL ENGINEER DATE 11-09-12
 JOSEPH TRAN
 No. C 59283
 Exp. 6/30/13
 PLANS APPROVAL DATE 1-14-13
 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.

MOTORIST INFORMATION QUANTITIES

MIQ-1

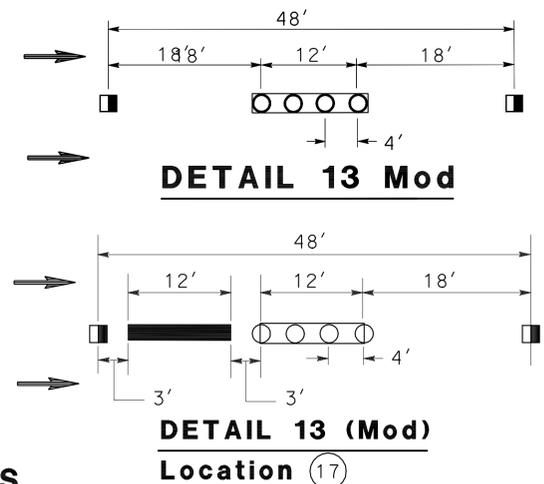
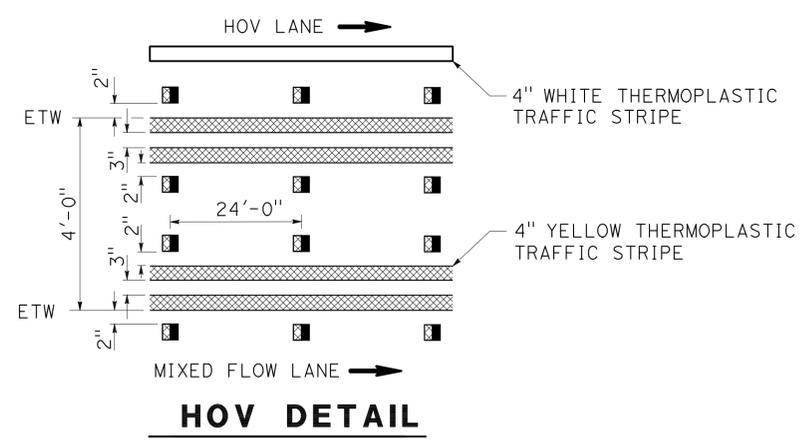
APPROVED FOR MOTORIST INFORMATION WORK ONLY

LEGEND

-  TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
-  4" WHITE THERMOPLASTIC TRAFFIC STRIPE
-  DIRECTION OF TRAFFIC

NOTE:

SEE STANDARD PLANS FOR PAVEMENT MARKING SYMBOL AND WORD DETAILS NOT SHOWN.



PAVEMENT DELINEATION QUANTITIES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	17	38

11-09-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE

JOSEPH TRAN
 No. C 59283
 Exp. 6/30/13
 CIVIL

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Loc	Rte	PM	BRIDGE NAME & No.	Dir	LF	THERMOPLASTIC TRAFFIC STRIPE														THERMOPLASTIC PAVEMENT MARKING			PAVEMENT MARKER			REMOVE		
						DETAIL 13 Mod (PAINT-2 COAT) 4" BLACK BROKEN (36-12)	HOV 4" SOLID WHITE	HOV 4" SOLID YELLOW	DETAIL 22 4" SOLID YELLOW	DETAIL 25 4" SOLID YELLOW	DETAIL 27B 4" SOLID WHITE	DETAIL 28 4" SOLID YELLOW	DETAIL 29 4" SOLID YELLOW	DETAIL 8 4" WHITE BROKEN (17-7)	DETAIL 9 4" WHITE BROKEN (17-7)	DETAIL 13 Mod 4" WHITE BROKEN (36-12)	ING/EGR 8" WHITE BROKEN (36-12)	DETAIL 36 8" SOLID WHITE	DETAIL 38 8" SOLID WHITE	DETAIL 37 8" WHITE BROKEN (12-3)	12" DIAGONAL STRIPE	HOV DIAMOND SYMBOL & WORDS	ARROW TYPE III (R)	NON-REFLECTIVE TYPE A	RETRO-REFLECTIVE TYPE G	RETRO-REFLECTIVE TYPE H	YELLOW THERMOPLASTIC TRAFFIC STRIPE	PAVEMENT MARKER
1	5	26.59	CULVER Dr 55-0197	NB		100	400		176	300						704	76	176			33			59	25	20	576	104
				SB		176	704		176	274						774		98			60			65	20	33	880	118
3	57	12.98	DOUGLAS Rd 55-0337	SB		295	1180		295	295						885							74	18	55	1475	148	
4	73	26.57	N73-S55 Conn 55-1028G	NB					340	340																7	340	7
5	73	27.76	N73-N55 Conn 55-0434G	NB					520	520						1040					150			87	22	11	520	119
6	91	0.10	COYOTE CREEK 55-0306	EB		280	1120		280	280						840							70	18	53	1400	140	
				WB		280	1120		280	280						840							70	18	53	1400	140	
7	91	3.85	MAGNOLIA Ave 55-0296L						152	152						304							25	6	3	152	35	
9	261	0.25	JAMBOREE-S261 ON RAMP 55-0898	SB					366	366						366							31	8	8	366	46	
10	405	0.95	IRVINE CENTER Dr 55-0442						906		1812		906							623	540			55	151	1812	206	
11	405	5.62	CULVER Dr 55-0249						524		1048		1048											22	87	1048	109	
12	405	6.41	SAN DIEGO CREEK 55-0285	NB		266	1064		266	266					1064							17	89	22	50	1330	161	
				SB					266	266					1064	266				266		33	89	51	6	266	145	
13	405	6.92	JAMBOREE Rd 55-0250						771	1028	1028		1285											27	86	2056	112	
14	405	7.40	VON KARMAN Ave 55-0612						750	1500			750											16		1500	16	
15	405	6.85	FAIRVIEW St 55-0421F						433	433					433							42	36	9	9	433	54	
16	405	10.79	S405-N55 Conn 55-0432					510		564				1020						1020		122	156	21	21		43	
17	405	11.45	HARBOR Blvd 55-0257	NB		205	820		205	205					1025							11	85	21	38	1025	145	
				SB	1025	205	820		205	333		76		1025		128							85	27	38	1025	151	
18	405	13.15	WARD St 55-0429					506		506												36			21		21	
19	405	13.78	BROOKHURST St 55-0402												1788				620	270		120	149	55			204	
SUB-TOTAL					1025	1807	7228	1016	3960	8031	2528	3888	76	5009	12152	342	402	2263	1076	365	11	1003	1014	461	750	17604	2224	
TOTAL					1025			28758					5085	12152	342	2665	1076			1379			1014	1211		17604	2224	

PAVEMENT DELINEATION QUANTITIES PDQ-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	18	38

<i>Gurinderpal Bhullar</i>	12-7-12
REGISTERED CIVIL ENGINEER	DATE
1-14-13	
PLANS APPROVAL DATE	

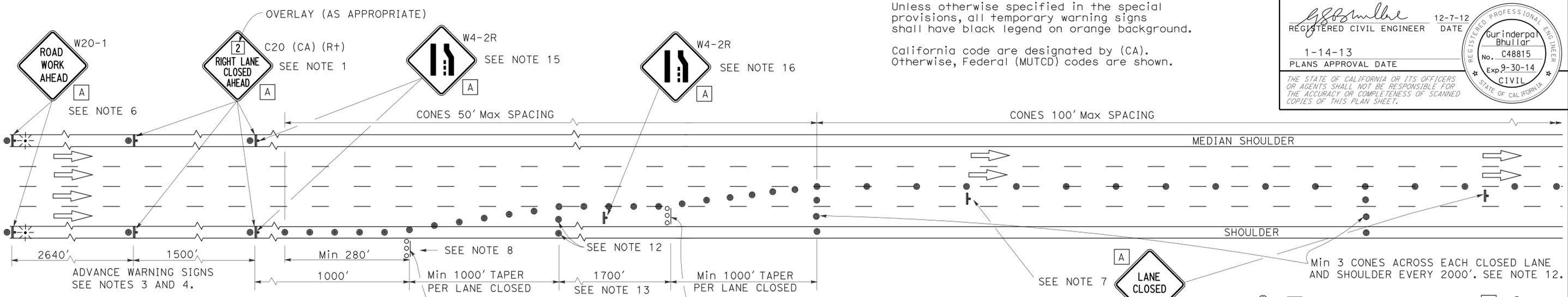
REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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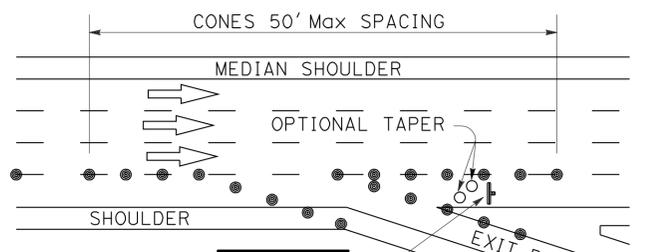
NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

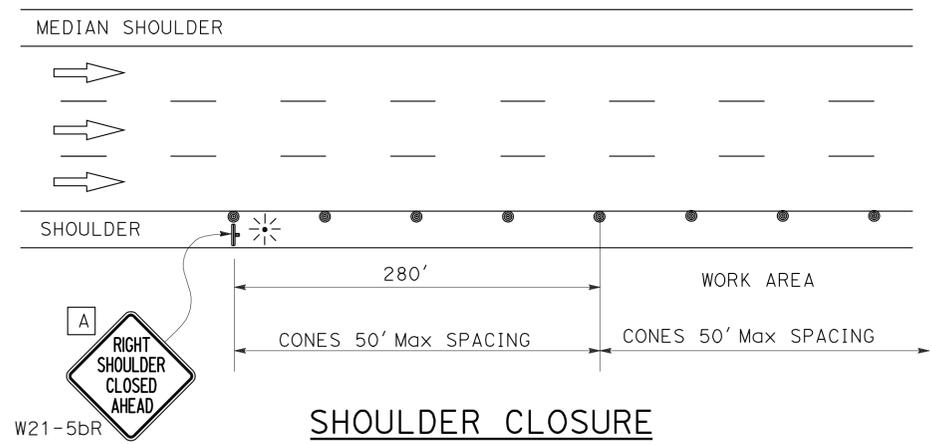
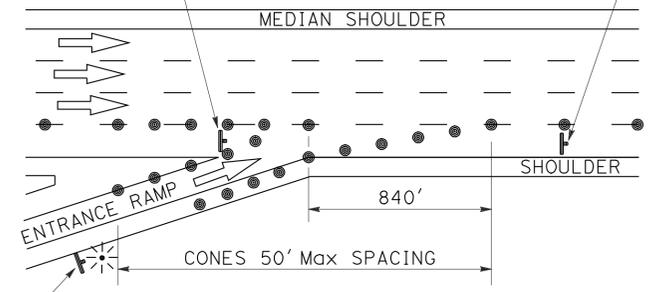
California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



LANE CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



SHOULDER CLOSURE

NOTES:

- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
- Place a C30 (CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
- When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
- The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 54" x 48"

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

TCS-1

REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE
36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

LEGEND

- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

NOTES:

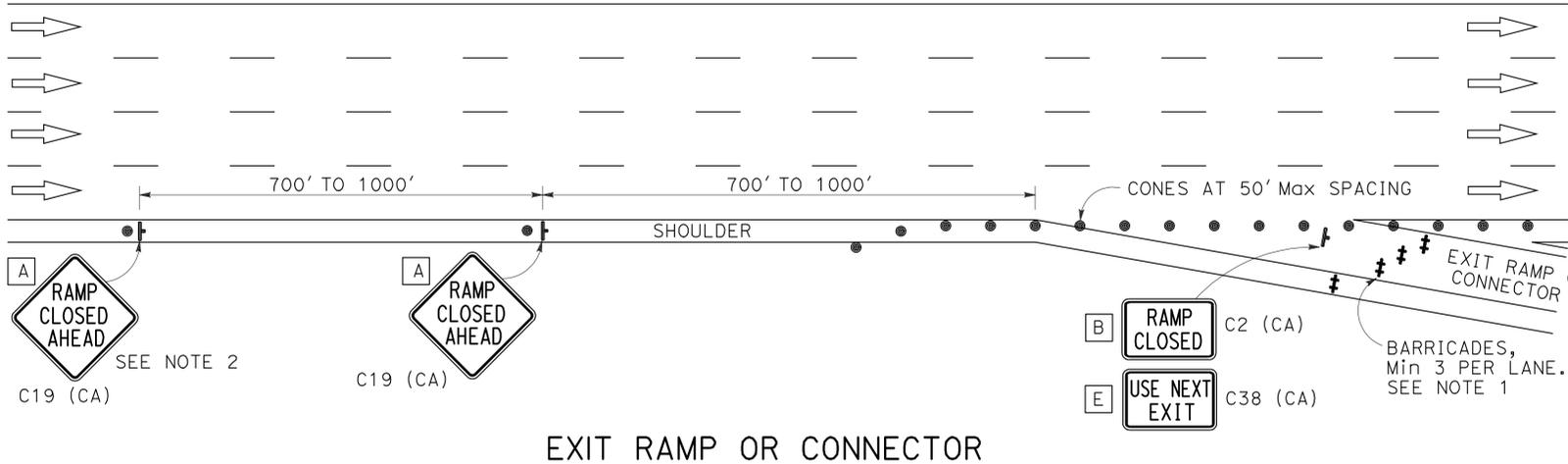
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	20	38

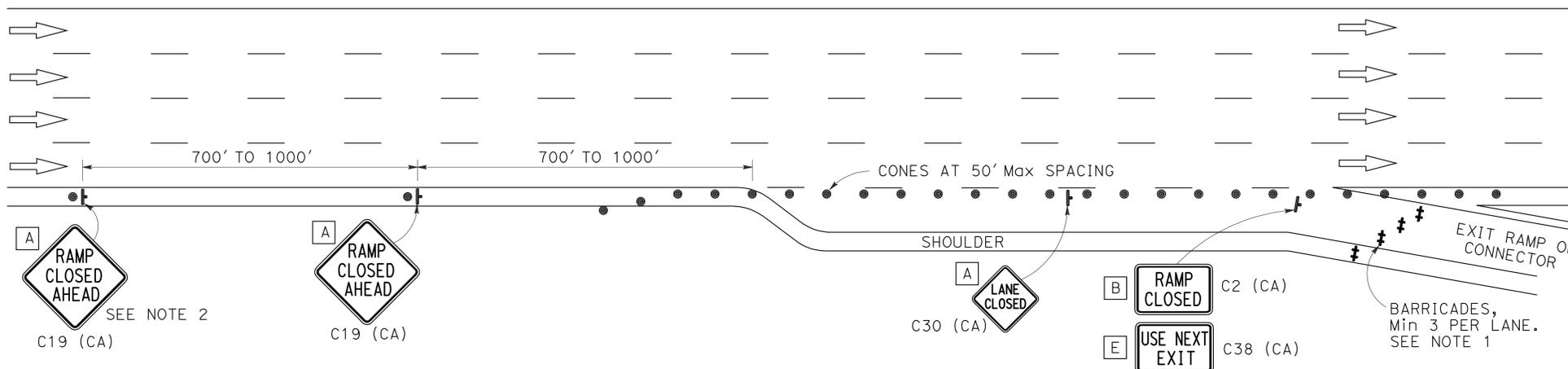
12-7-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE

Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL

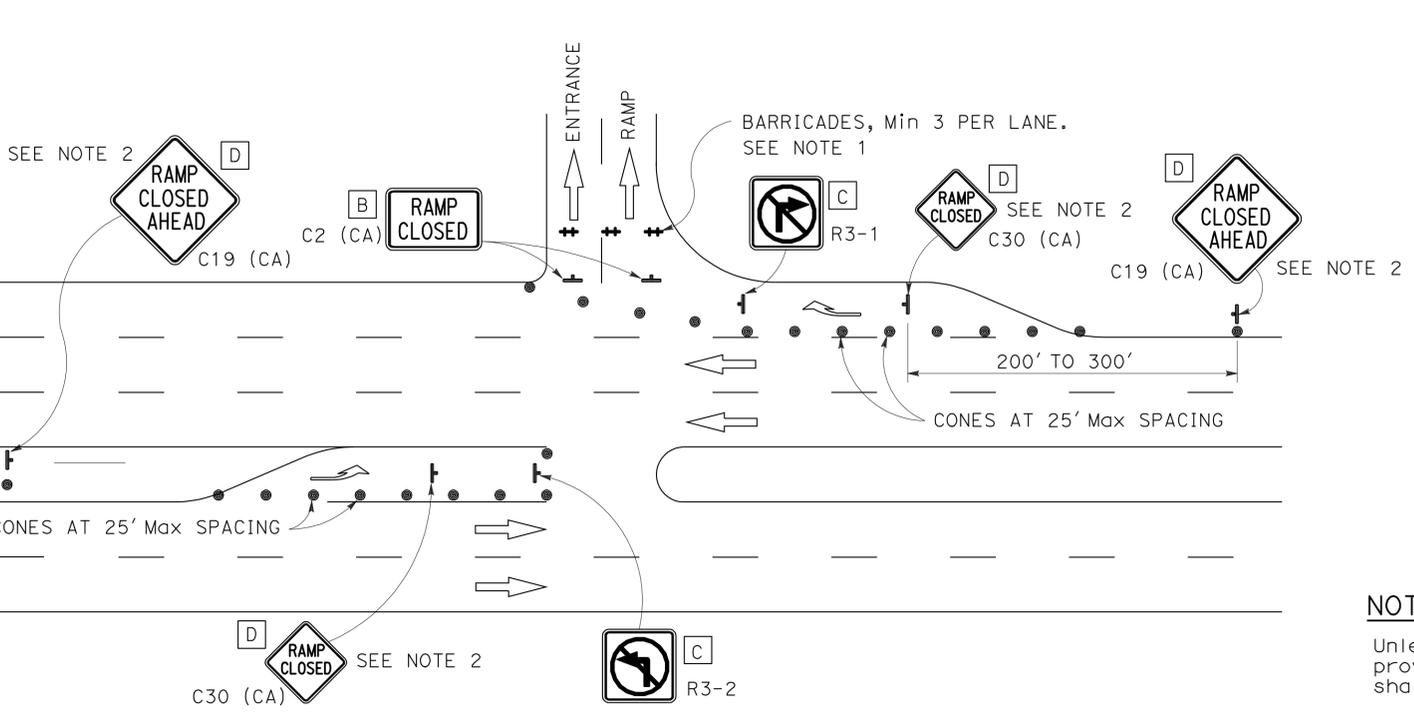
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



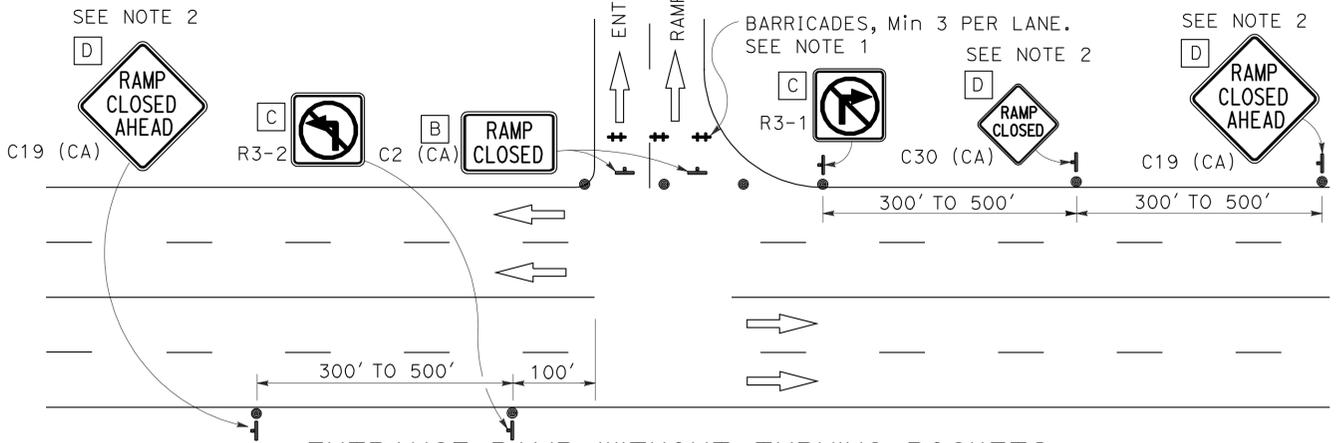
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
- California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-3

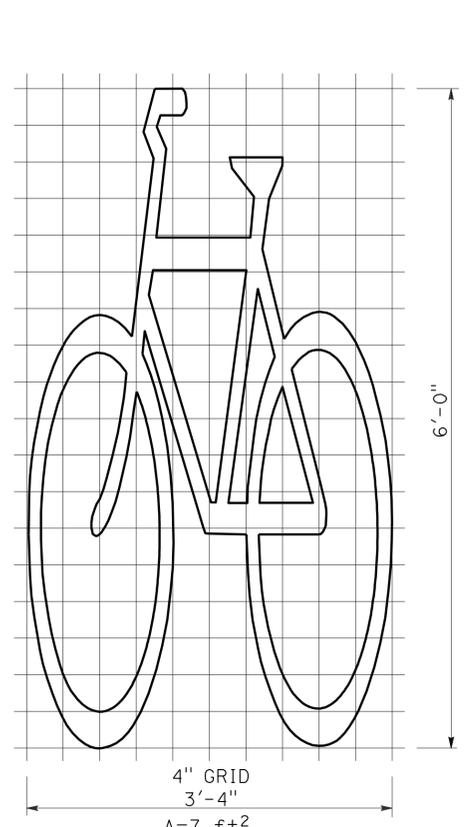
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

LAST REVISION DATE PLOTTED => 16-JAN-2013
 00-00-00 TIME PLOTTED => 14:05

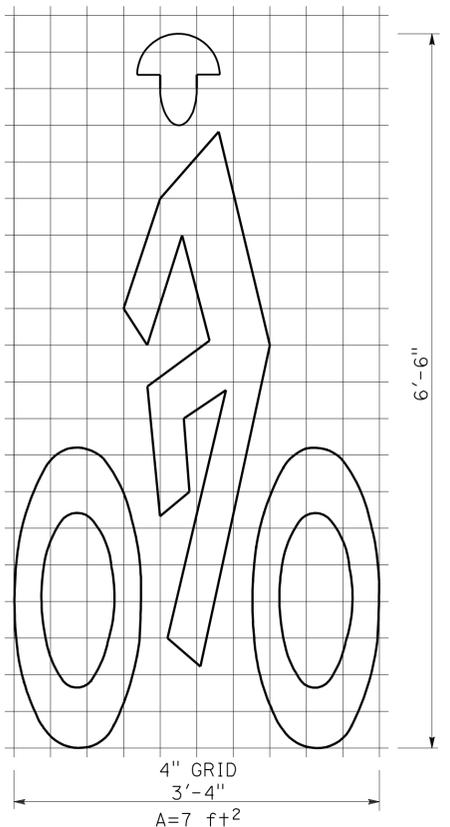
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	21	38

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

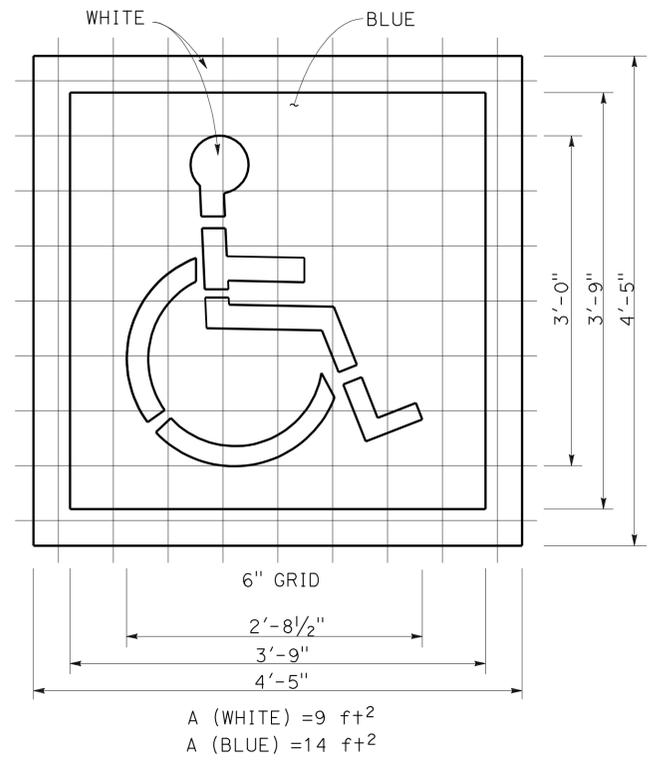
October 19, 2012
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
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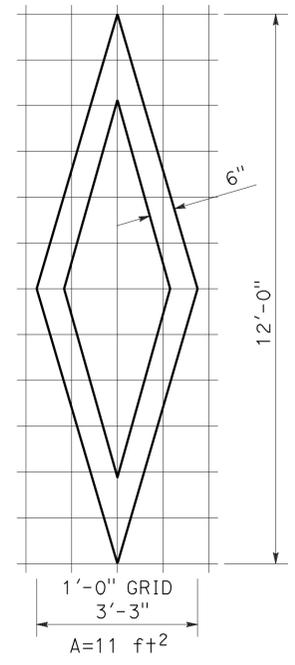
**BIKE LANE SYMBOL
WITHOUT PERSON**



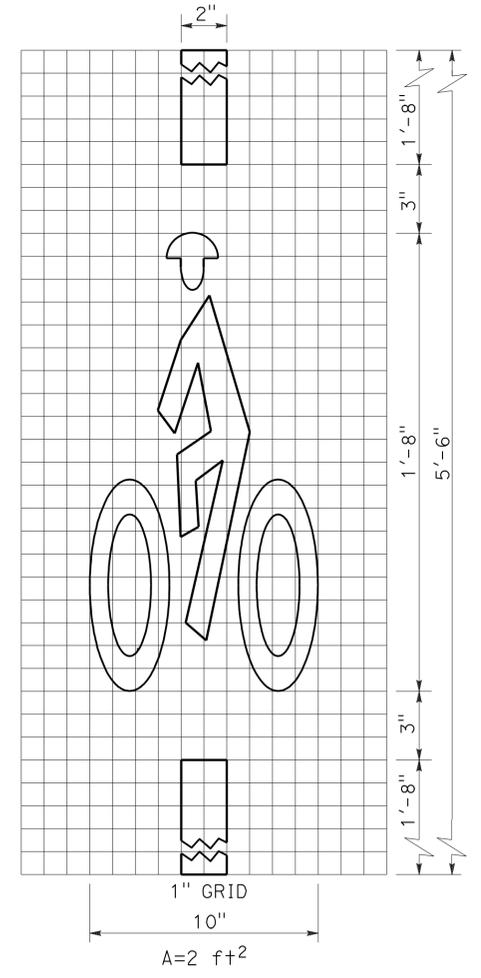
**BIKE LANE SYMBOL
WITH PERSON**



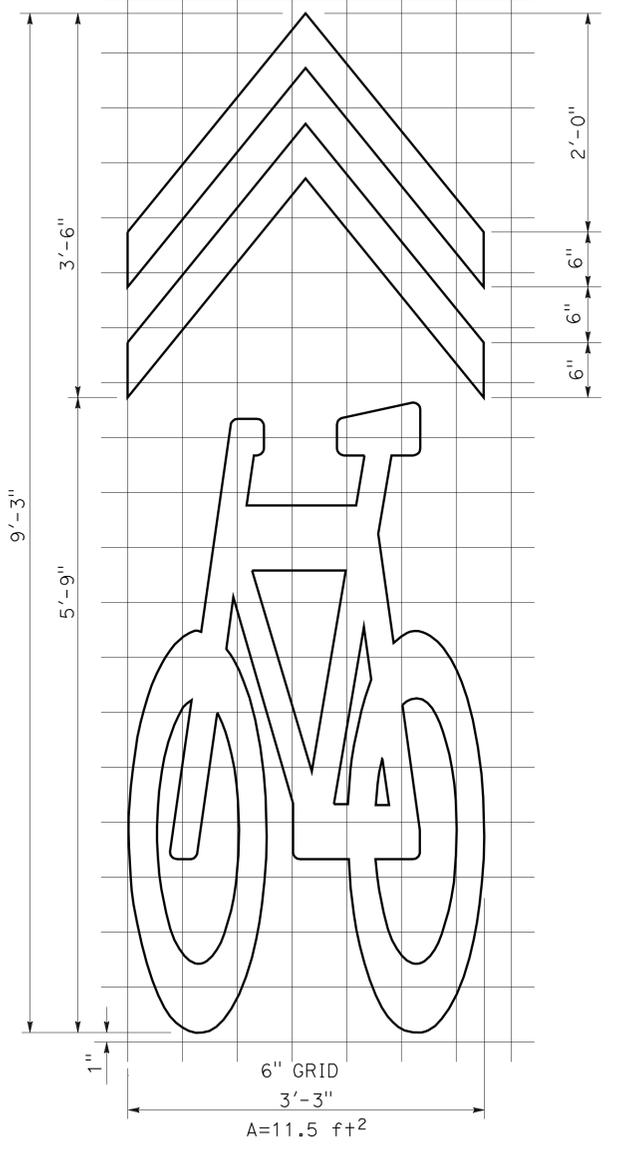
**INTERNATIONAL SYMBOL
OF ACCESSIBILITY (ISA) MARKING**



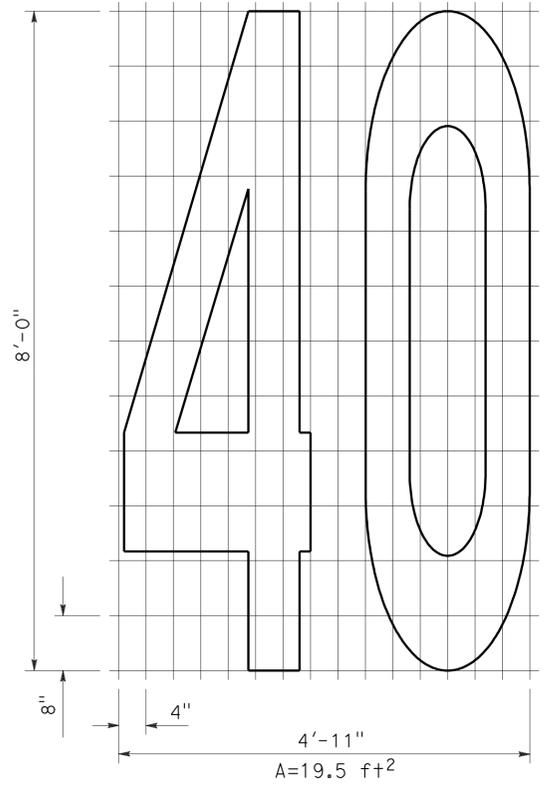
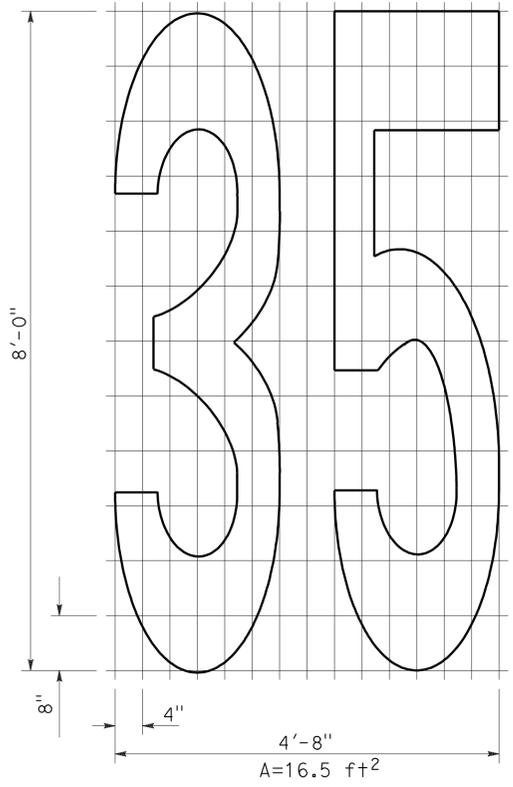
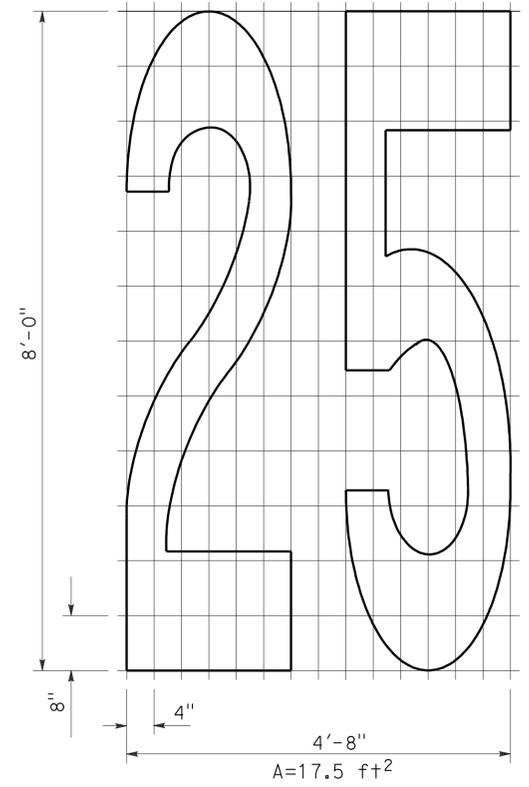
DIAMOND SYMBOL



**BICYCLE LOOP
DETECTOR SYMBOL**



SHARED ROADWAY BICYCLE MARKING



NUMERALS

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

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

REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	22	38

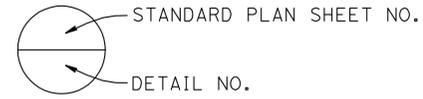
Tony D. Brake 10-22-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE
 Tony D. Brake
 No. C57863
 Exp. 06/30/14
 CIVIL
 STATE OF CALIFORNIA
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INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	GENERAL PLAN NO. 10
11	GENERAL PLAN NO. 11
12	GENERAL PLAN NO. 12
13	GENERAL PLAN NO. 13
14	GENERAL PLAN NO. 14
15	MISCELLANEOUS DETAILS NO. 1
16	MISCELLANEOUS DETAILS NO. 2
17	STRUCTURE APPROACH TYPE R(30D)

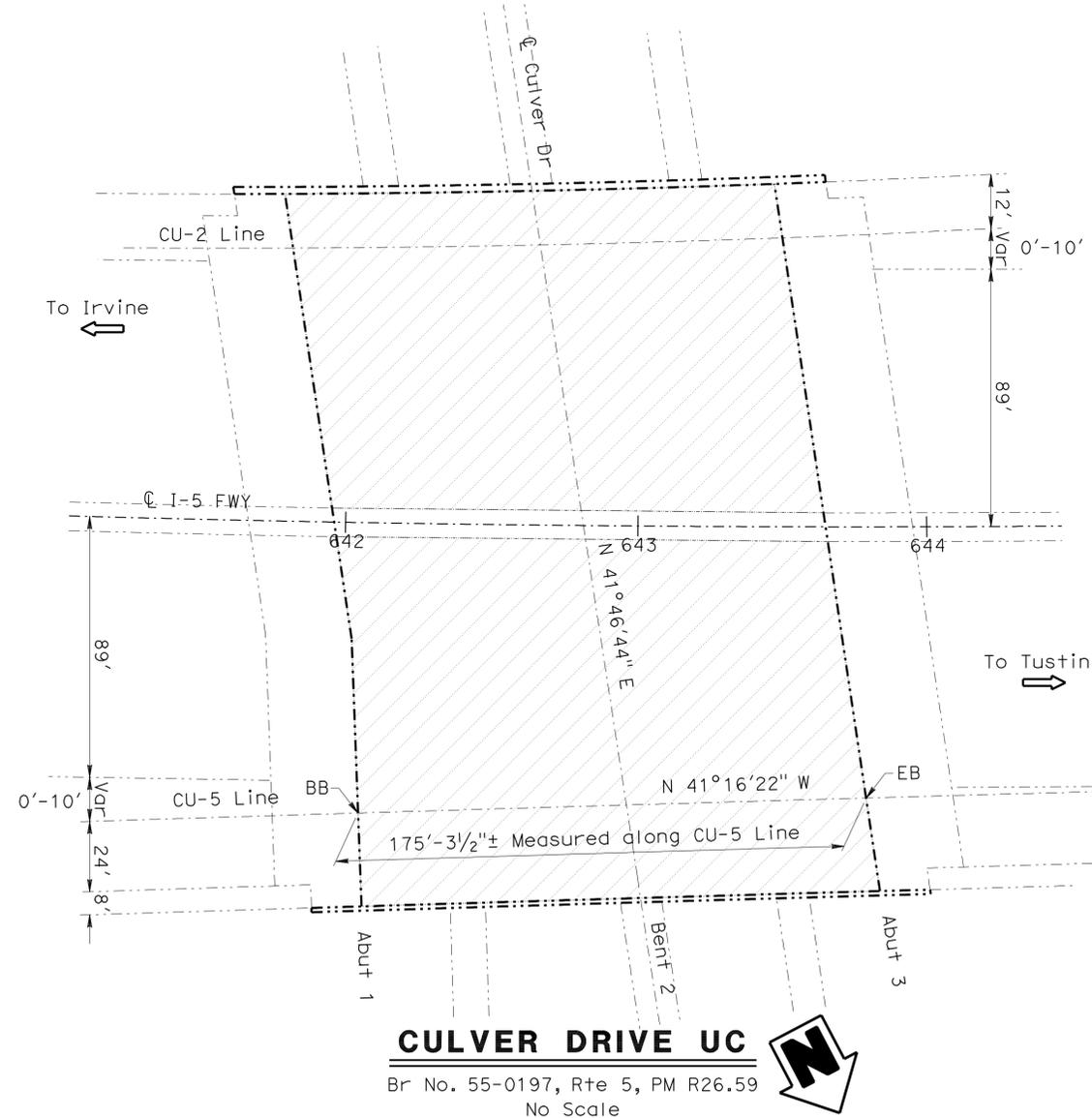
STANDARD PLANS DATED MAY 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	LINES AND SYMBOLS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 2)
A10D	LINES AND SYMBOLS (SHEET 2 OF 2)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate.



CULVER DRIVE UC #55-0197
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	40,500 SQFT
TREAT BRIDGE DECK	40,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	580 GAL

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTES 5, 57, 73, 91, 133, 261 & 405 BRIDGES GENERAL PLAN NO. 1			
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom		CHECKED Tony Brake		POST MILE		
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick		CHECKED Theresa Nedwick		PLANS AND SPECS COMPARED	Varies	
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 1212000033 1	CONTRACT NO.: 12-0M3801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 01 OF 17

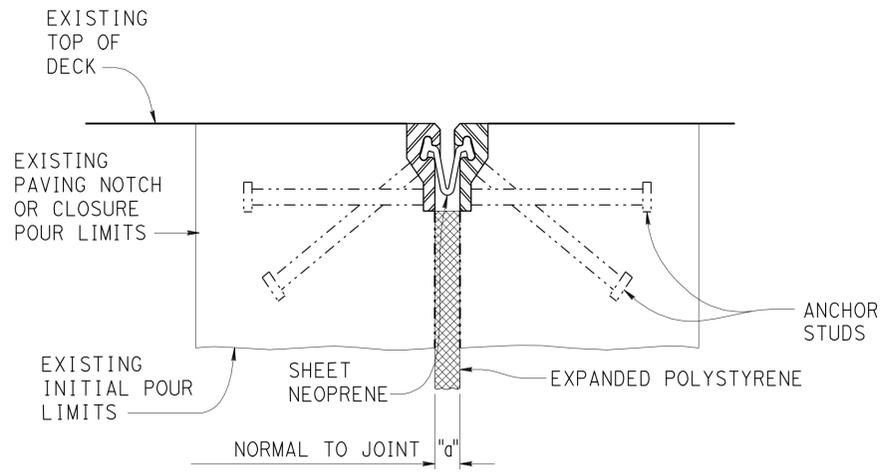
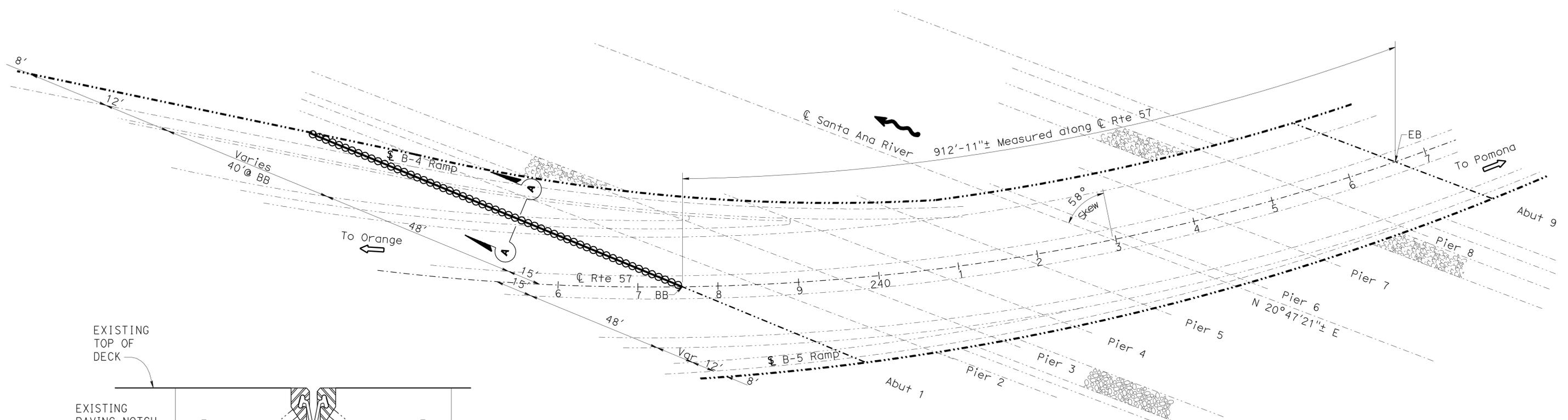
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	23	38

Tony D. Brake 10-22-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE
 Tony D. Brake
 No. C57863
 Exp. 06/30/14
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ⊗ Indicates removal and replacement of neoprene gland in existing Watson Bowman Acme Wabo Maurer strip seal Model SA-400..

JOINT SEAL ASSEMBLY DIMENSIONS					
LOCATION	MINIMUM "MR" (inches)	Skew	"a" Dimension		
			Winter	Spring/Fall	Summer
Abut 1	2"	58°	1 1/2"	1 1/4"	3/4"



SANTA ANA RIVER
 Br No. 55-0400, Rte 57, PM 11.96
 No Scale

SANTA ANA RIVER #55-0400
 QUANTITIES
 REPLACE NEOPRENE STRIP SEAL GLAND (WABO SEAL) (MR 2") 123 LF

SECTION A-A

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTES 5, 57, 73, 91, 133, 261 & 405 BRIDGES GENERAL PLAN NO. 2					
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom		CHECKED Tony Brake		POST MILE				
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick		CHECKED Theresa Nedwick		PLANS AND SPECS COMPARED	Varies			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489	PROJECT NUMBER & PHASE: 1212000033 1	CONTRACT NO.: 12-0M3801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 02	OF 17

USERNAME => s119571 DATE PLOTTED => 16-JAN-2013 TIME PLOTTED => 14:06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	24	38

10-22-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE

Tony D. Brake
 No. C57863
 Exp. 06/30/14
 CIVIL
 STATE OF CALIFORNIA

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N73-S55/55 SEPARATION #55-1028G
 QUANTITIES

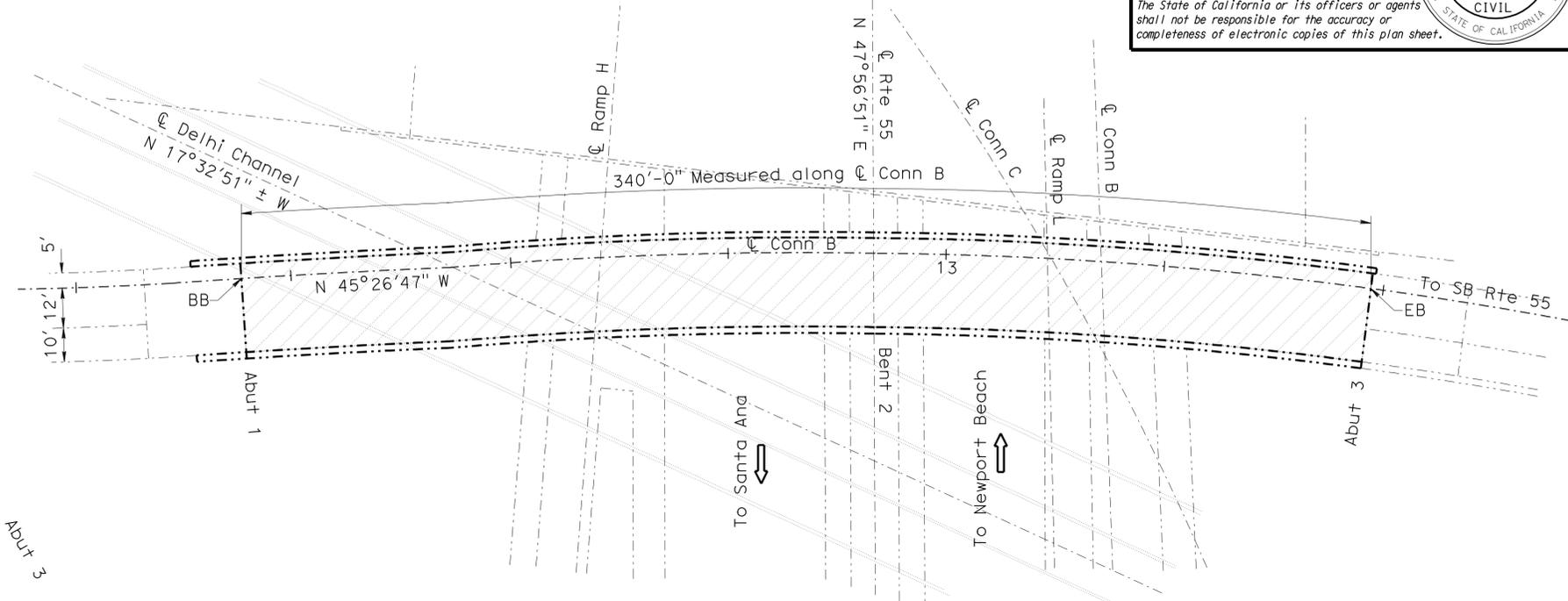
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	9,180 SQFT
TREAT BRIDGE DECK	9,180 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	131 GAL

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate.
- ▩ Indicates limits of remove existing PCC approach and place new Structure Approach Type R(30D). For details see "STRUCTURE APPROACH TYPE R(30D)" sheet.
- ⊖⊖⊖⊖⊖⊖ Indicates limits of placement of new joint seal.
- * Indicates limits of paving notch extension.
- Indicates limits of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch).

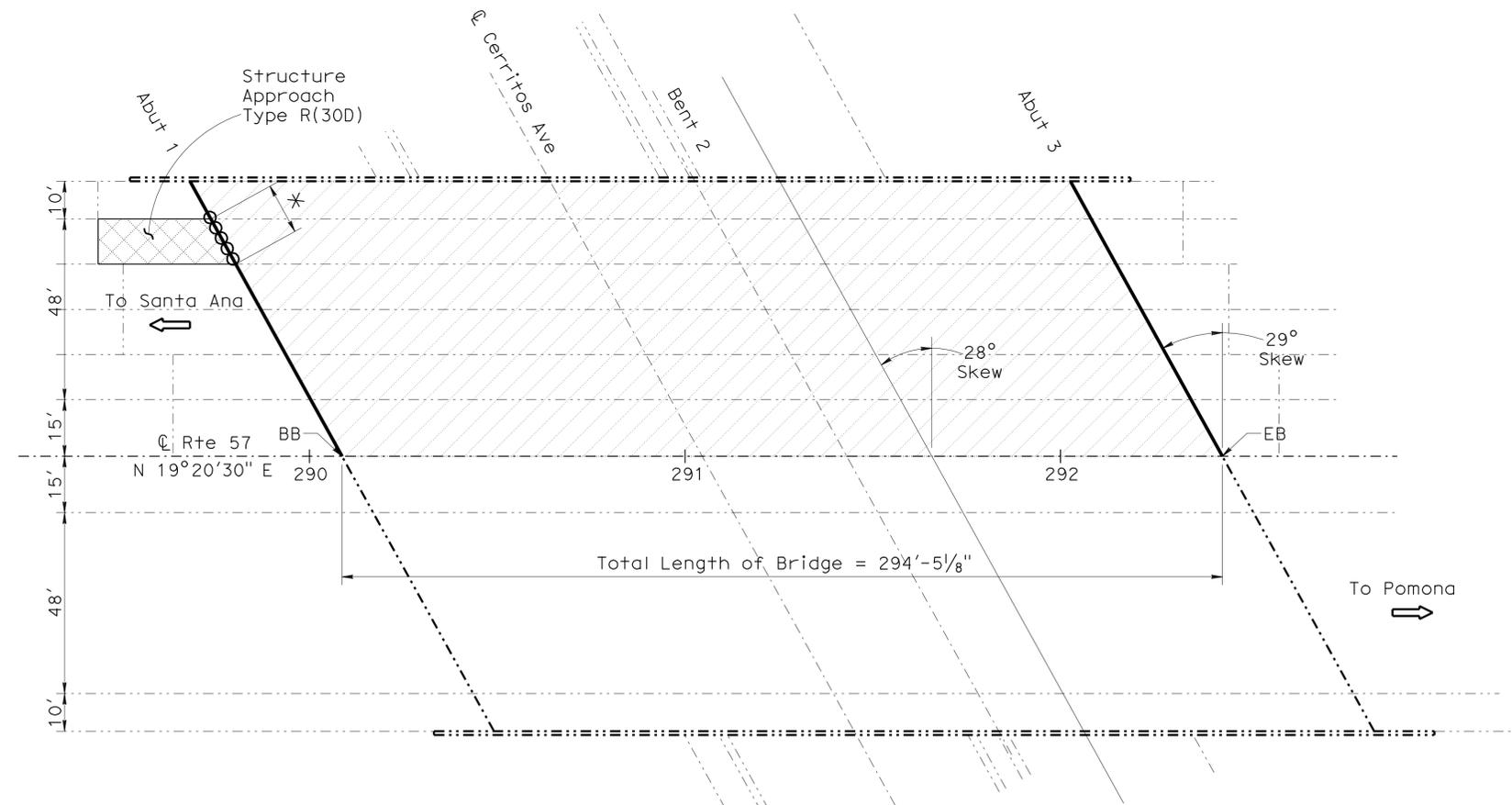
NOTES:

1. For joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.



N73-S55/55 SEPARATION

Br No. 55-1028G, Rte 73, PM R26.57
 No Scale



DOUGLAS OH #55-0337
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	2 CF
REMOVE UNSOUND CONCRETE	2 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	21,500 SQFT
TREAT BRIDGE DECK	21,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	307 GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	18 CY
PAVING NOTCH EXTENSION	10 CF
CLEAN EXPANSION JOINT	153 LF
JOINT SEAL (MR 1")	168 LF

DOUGLAS OH

Br No. 55-0337, Rte 57, PM 12.98
 Scale 1"=20'



NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

TONY D. BRAKE
 DESIGN ENGINEER

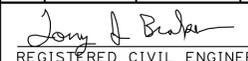
DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

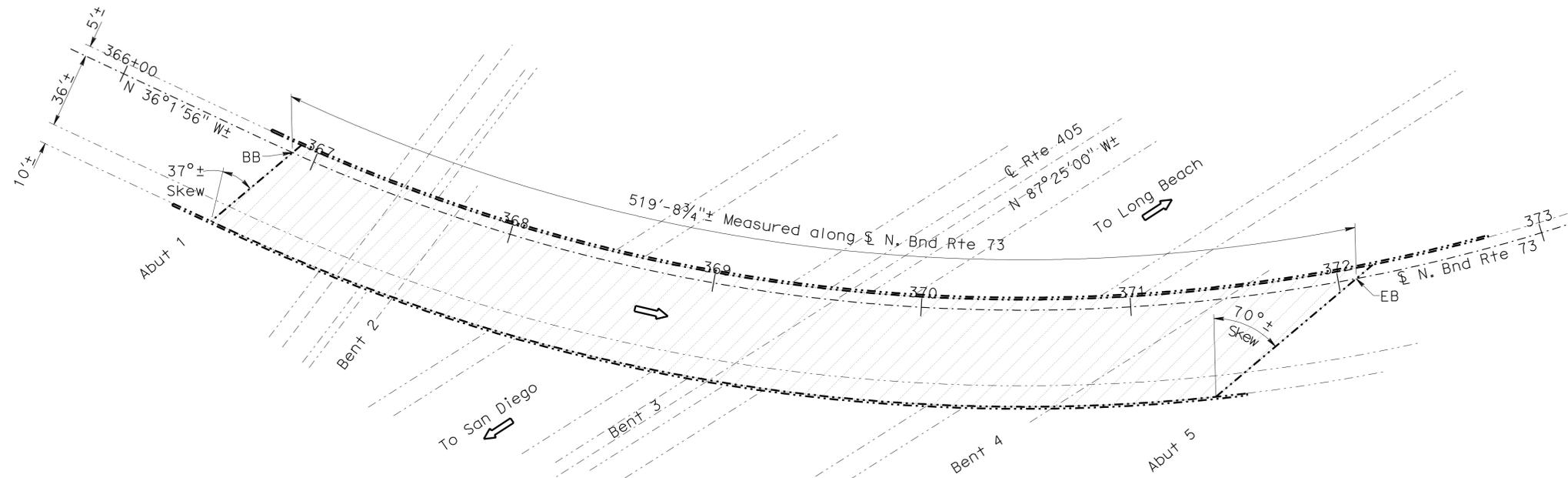
BRIDGE NO. Various
 POST MILE Varies
ROUTES 5, 57, 73, 91, 133, 261 & 405 BRIDGES
GENERAL PLAN NO. 3

USERNAME => s119571 DATE PLOTTED => 16-JAN-2013 TIME PLOTTED => 1:31:11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	25	38
 REGISTERED CIVIL ENGINEER			10-22-12 DATE		
1-14-13 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.		

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate.



N73-N405 CONNECTOR OC

Br No. 55-0434G, Rte 73, PM R27.76
Scale 1"=30'

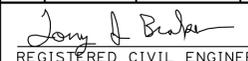


N73-N405 CONNECTOR OC #55-0434G
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	26,500 SQFT
TREAT BRIDGE DECK	26,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	379 GAL

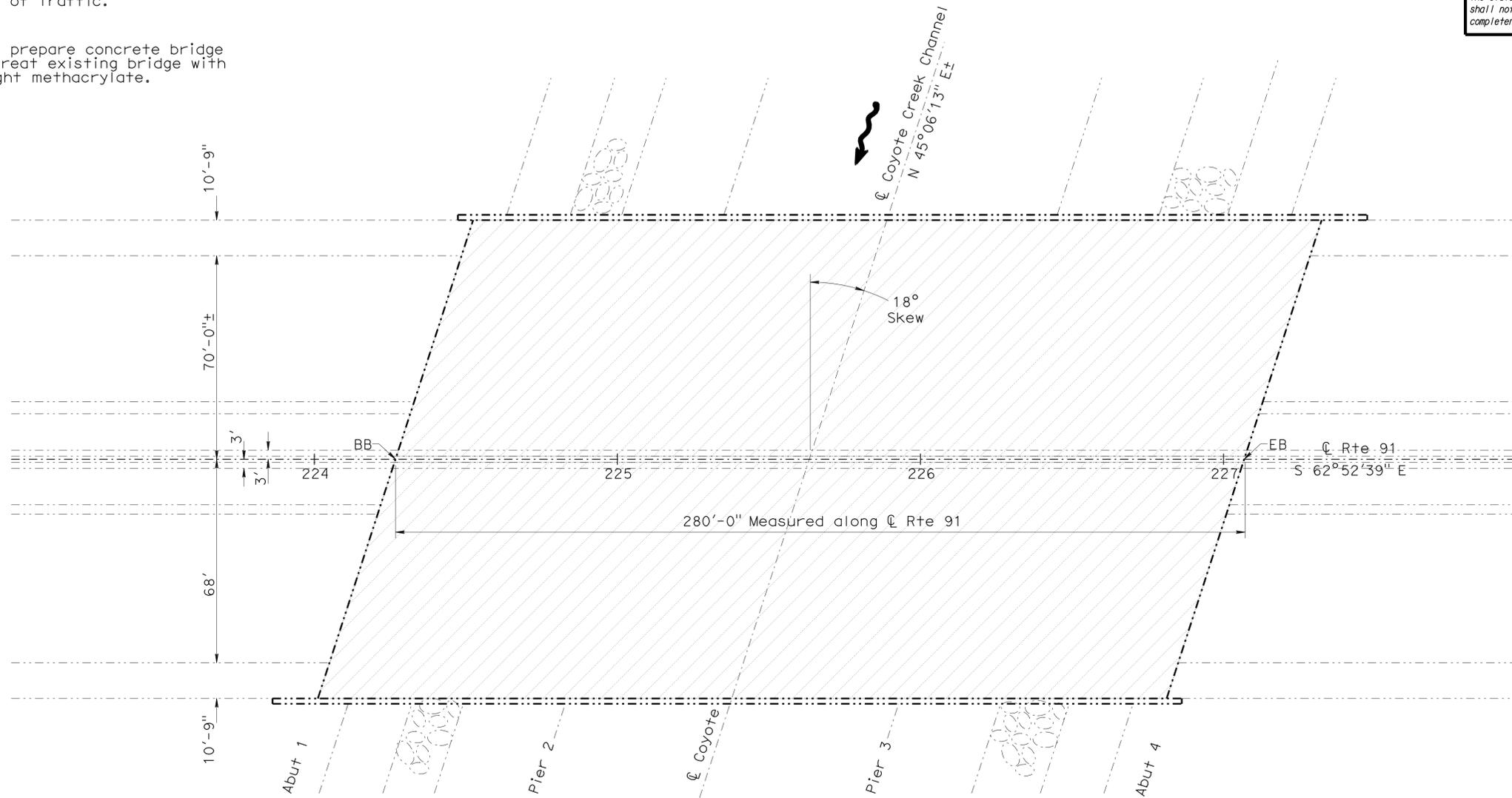
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

 DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTES 5, 57, 73, 91, 133, 261 & 405 BRIDGES GENERAL PLAN NO. 4				
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom		POST MILE					
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick		PLANS AND SPECS COMPARED Theresa Nedwick		Varies			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						UNIT: 3489	PROJECT NUMBER & PHASE: 1212000033 1	CONTRACT NO.: 12-0M3801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 04	OF 17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	26	38
 REGISTERED CIVIL ENGINEER			10-22-12 DATE		
1-14-13 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.		

LEGEND:

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- ➔ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate.



COYOTE CREEK

Br No. 55-0306, Rte 91, PM R0.1
 Scale 1"=20'

COYOTE CREEK #55-0306
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	42,800 SQFT
TREAT BRIDGE DECK	42,800 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	611 GAL

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

 DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 5,57,73,91,133,261& 405 BRIDGES GENERAL PLAN NO. 5	
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom			CHECKED Tony Brake		POST MILE
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick			CHECKED Theresa Nedwick		Varies
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)										
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						UNIT: 3489 PROJECT NUMBER & PHASE: 1212000033 1	CONTRACT NO.: 12-0M3801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 06-27-12 06-28-12 10-11-12 10-22-12	SHEET 05 OF 17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	27	38

Tony D. Brake 10-22-12
 REGISTERED CIVIL ENGINEER DATE

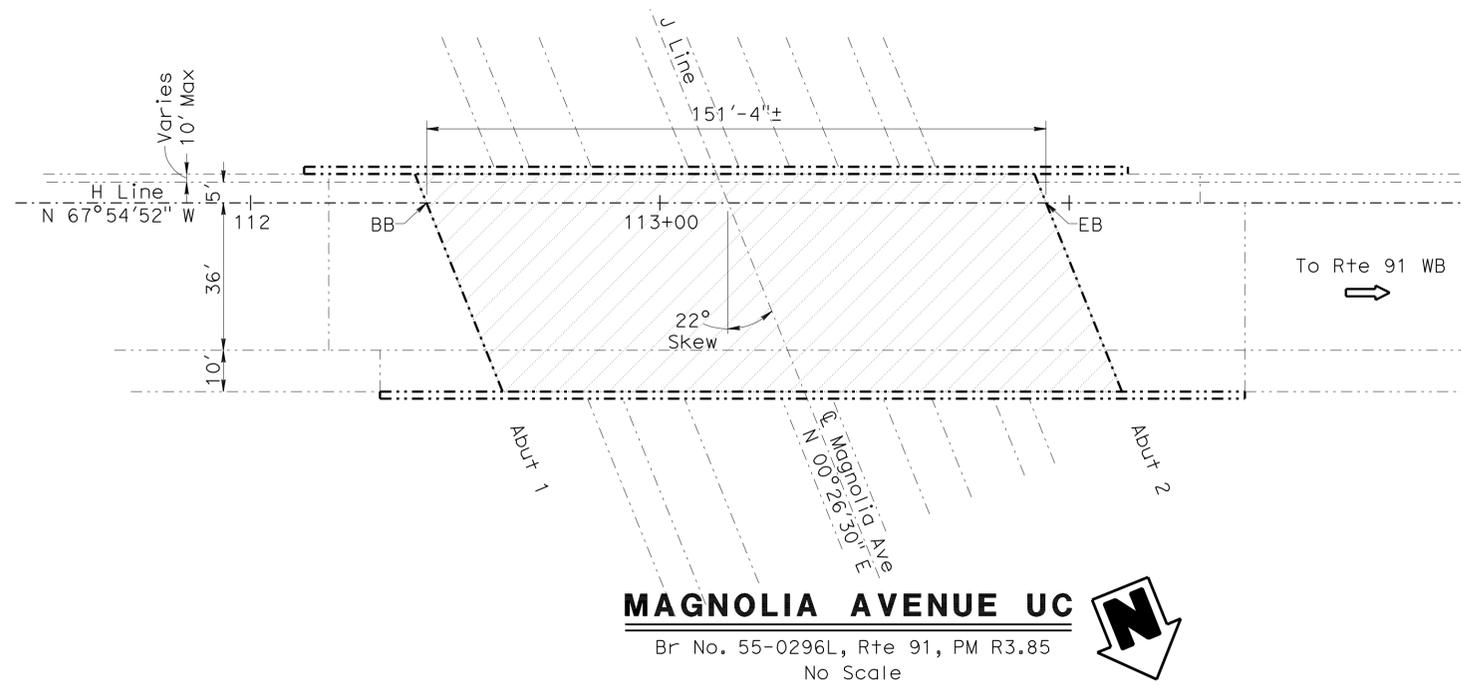
1-14-13
 PLANS APPROVAL DATE

Tony D. Brake
 No. C57863
 Exp. 06/30/14
 CIVIL
 STATE OF CALIFORNIA

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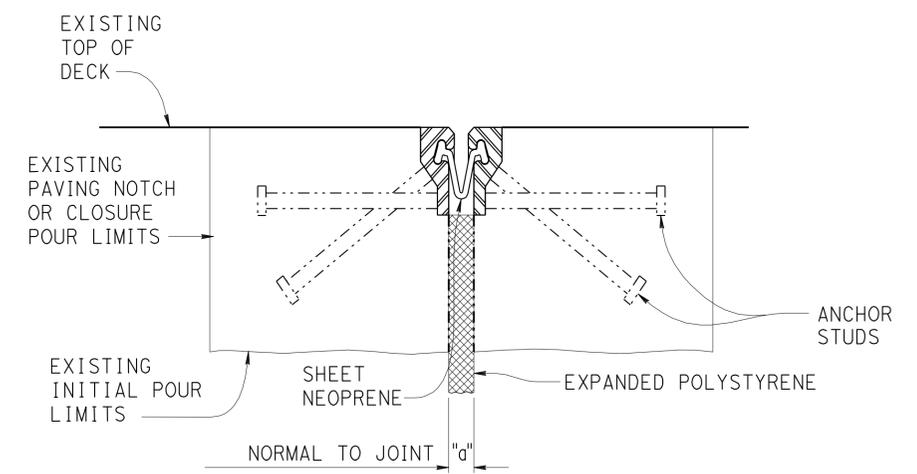
LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate.
- ⊖⊖⊖⊖⊖⊖ Indicates removal and replacement of neoprene gland in existing Watson Bowman Acme strip seal assembly Model SE-500.



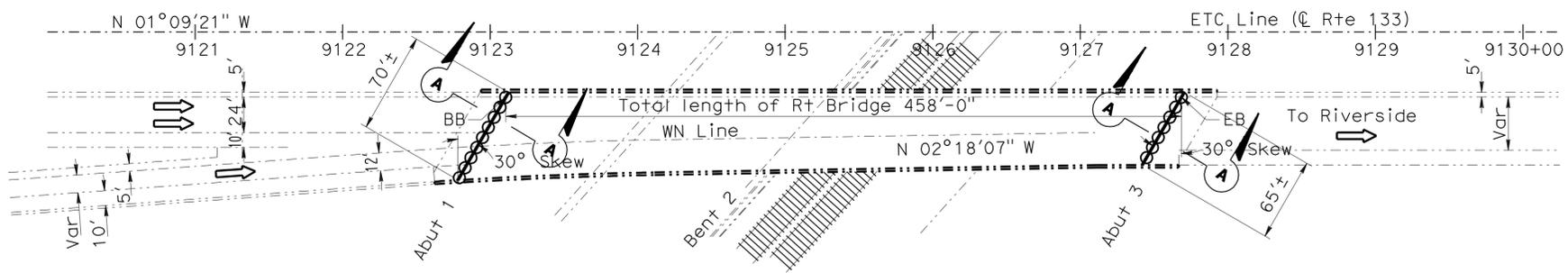
MAGNOLIA AVENUE UC #55-0296L
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	8,475 SQFT
TREAT BRIDGE DECK	8,475 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	121 GAL



JOINT SEAL ASSEMBLY DIMENSIONS

LOCATION	MINIMUM "MR" (inches)	Skew	"a" Dimension		
			Winter	Spring/Fall	Summer
Abut 1	4	30°	3 1/4"	2 3/4"	2 1/4"
Abut 3	4	30°	3 1/4"	2 3/4"	2 1/4"



TECHNOLOGY DRIVE UC & OH #55-0773R
QUANTITIES

REPLACE NEOPRENE STRIP SEAL GLAND (WABO SEAL) (MR 4")	135 LF
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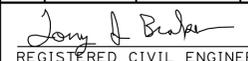
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 5, 57, 73, 91, 133, 261 & 405 BRIDGES GENERAL PLAN NO. 6
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom			CHECKED Tony Brake	
QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick	CHECKED Theresa Nedwick	PLANS AND SPECS COMPARED	Varies		

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: X PROJECT NUMBER & PHASE: 1212000033 1 CONTRACT NO.: 12-0M3801 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
06-27-12 06-28-12 10-11-12 10-22-12	06	17

FILE => 12-0M3801-a-gp06.dgn

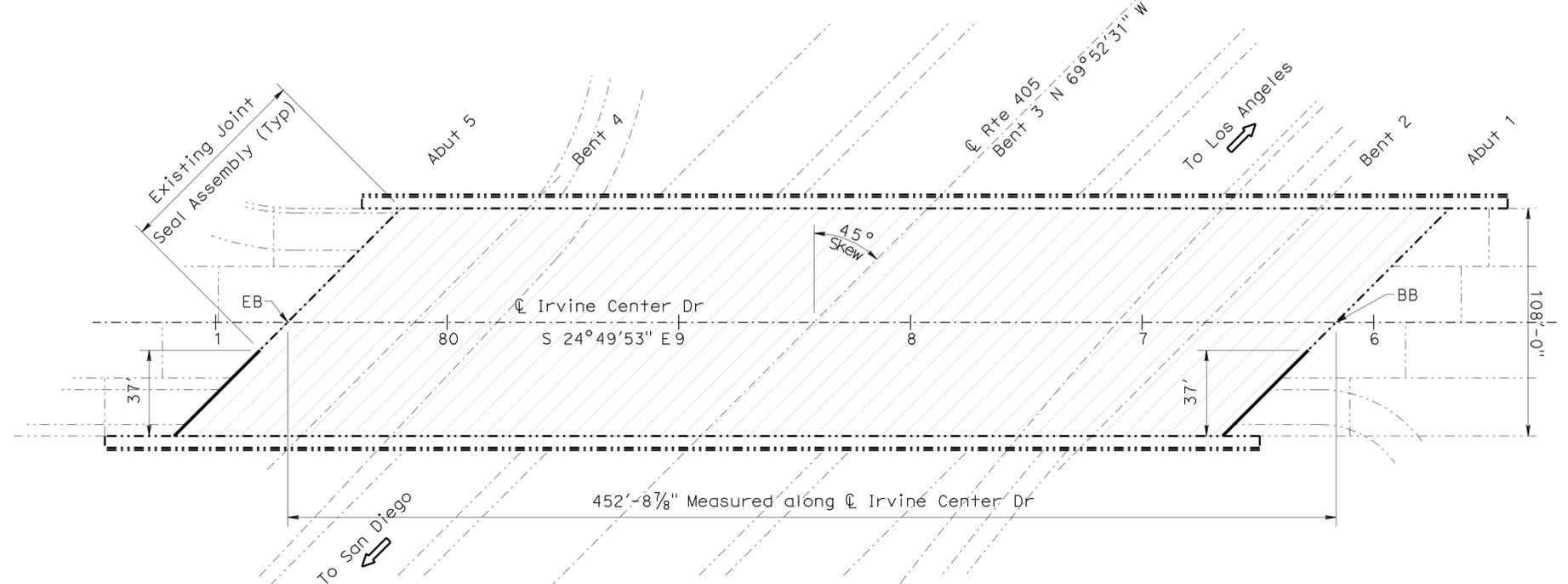
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	28	38
 REGISTERED CIVIL ENGINEER			10-22-12	DATE	
1-14-13 PLANS APPROVAL DATE					
					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate.
- Indicates location of sawcut concrete, clean expansion joint and placement of new joint seal. Prior to placement of new joint seal repair joint by removing unsound concrete and placing rapid setting concrete patch.

NOTES:

1. For joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.



IRVINE CENTER DRIVE OC

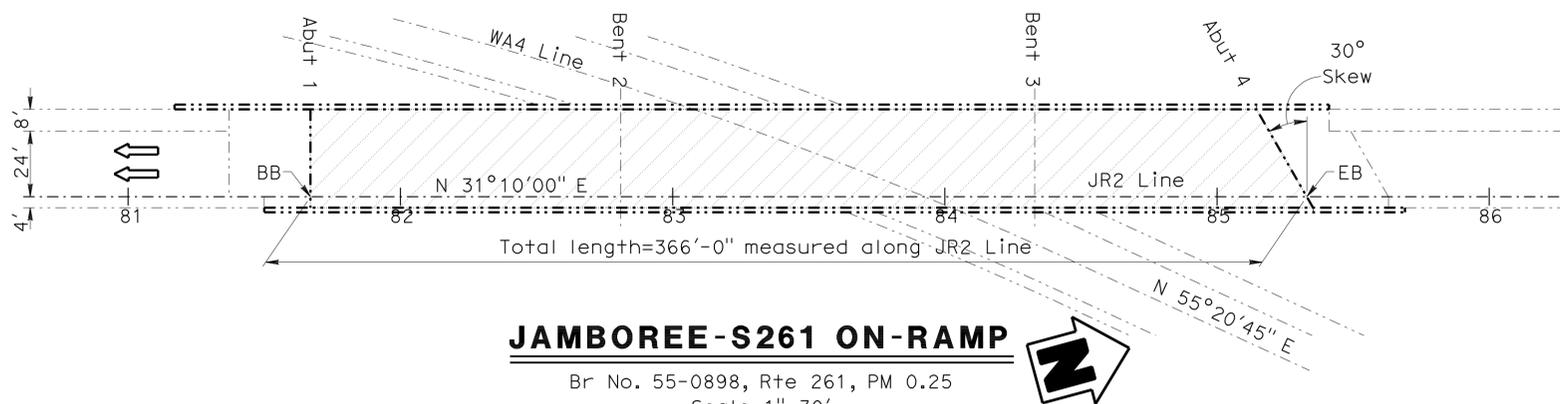
Br No. 55-0442, Rte 405, PM 0.95
Scale 1"=30'

JAMBOREE-S261 ON-RAMP #55-0898
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	12,800 SQFT
TREAT BRIDGE DECK	12,800 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	183 GAL

IRVINE CENTER DRIVE OC #55-0442
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	2 CF
REMOVE UNSOUND CONCRETE	2 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	48,900 SQFT
TREAT BRIDGE DECK	48,900 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	700 GAL
CLEAN EXPANSION JOINT	106 LF
JOINT SEAL (MR 1")	106 LF



JAMBOREE-S261 ON-RAMP

Br No. 55-0898, Rte 261, PM 0.25
Scale 1"=30'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5, 57, 73, 91, 133, 261 & 405 BRIDGES

GENERAL PLAN NO. 7

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489
PROJECT NUMBER & PHASE: 1212000033 1 CONTRACT NO.: 12-0M3801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
06-27-12 06-28-12 10-11-12 10-22-12	07	17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	29	38

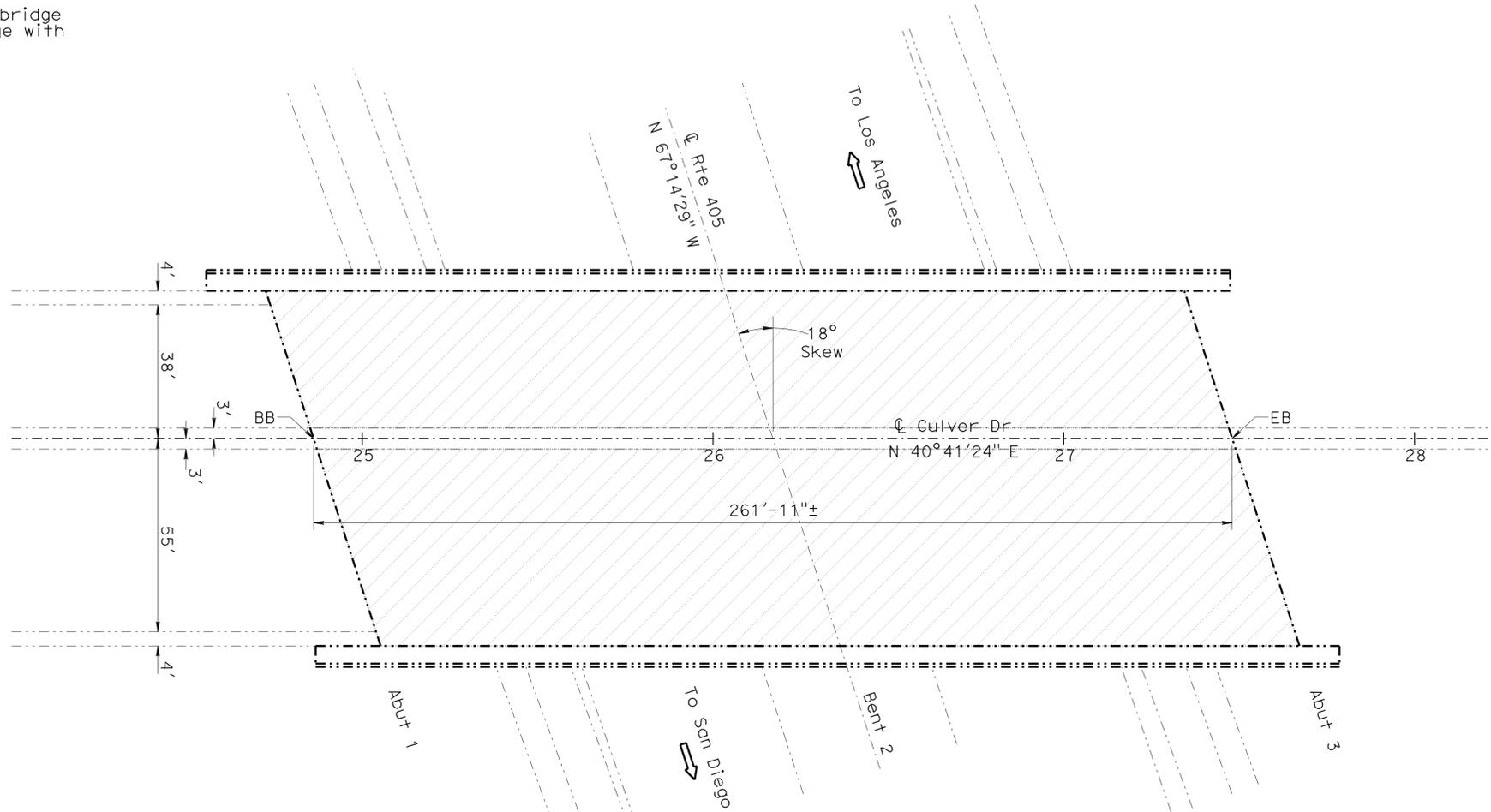
10-22-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE

Tony D. Brake
 No. C57863
 Exp. 06/30/14
 CIVIL
 STATE OF CALIFORNIA

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CULVER DRIVE OC
 Br No. 55-0249, Rte 405, PM 5.62
 Scale 1"=20'

CULVER DRIVE OC #55-0249
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	24,880 SQFT
TREAT BRIDGE DECK	24,880 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	355 GAL

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 5,57,73,91,133,261& 405 BRIDGES GENERAL PLAN NO. 8		
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom			CHECKED Tony Brake		POST MILE	
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick			CHECKED Theresa Nedwick		PLANS AND SPECS COMPARED	Varies
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 1212000033 1	CONTRACT NO.: 12-0M3801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 08 OF 17

USERNAME => s1119571 DATE PLOTTED => 16-JAN-2013 TIME PLOTTED => 13:12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	30	38

Tony D. Brake 10-22-12
 REGISTERED CIVIL ENGINEER DATE

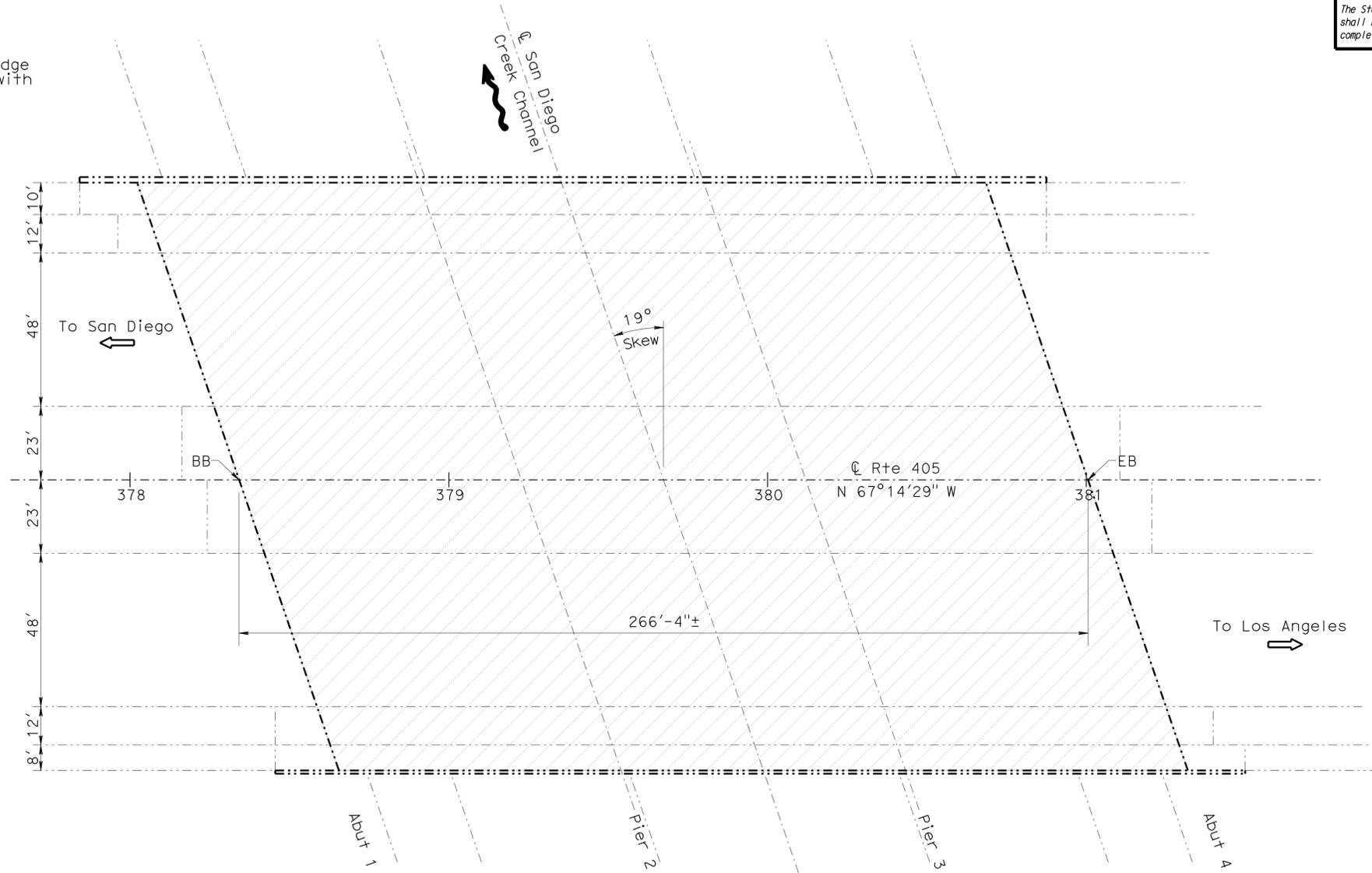
1-14-13
 PLANS APPROVAL DATE

Tony D. Brake
 No. C57863
 Exp. 06/30/14
 CIVIL
 STATE OF CALIFORNIA

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SAN DIEGO CREEK CHANNEL

Br No. 55-0285, Rte 405, PM 6.41
Scale 1"=20'

SAN DIEGO CREEK CHANNEL #55-0285

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	49,000 SQFT
TREAT BRIDGE DECK	49,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	700 GAL

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5, 57, 73, 91, 133, 261 & 405 BRIDGES

GENERAL PLAN NO. 9

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489
PROJECT NUMBER & PHASE: 1212000033 1 CONTRACT NO.: 12-0M3801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
06-27-12 06-28-12 10-11-12 10-22-12	09	17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	31	38

Tony D. Brake 10-22-12
 REGISTERED CIVIL ENGINEER DATE

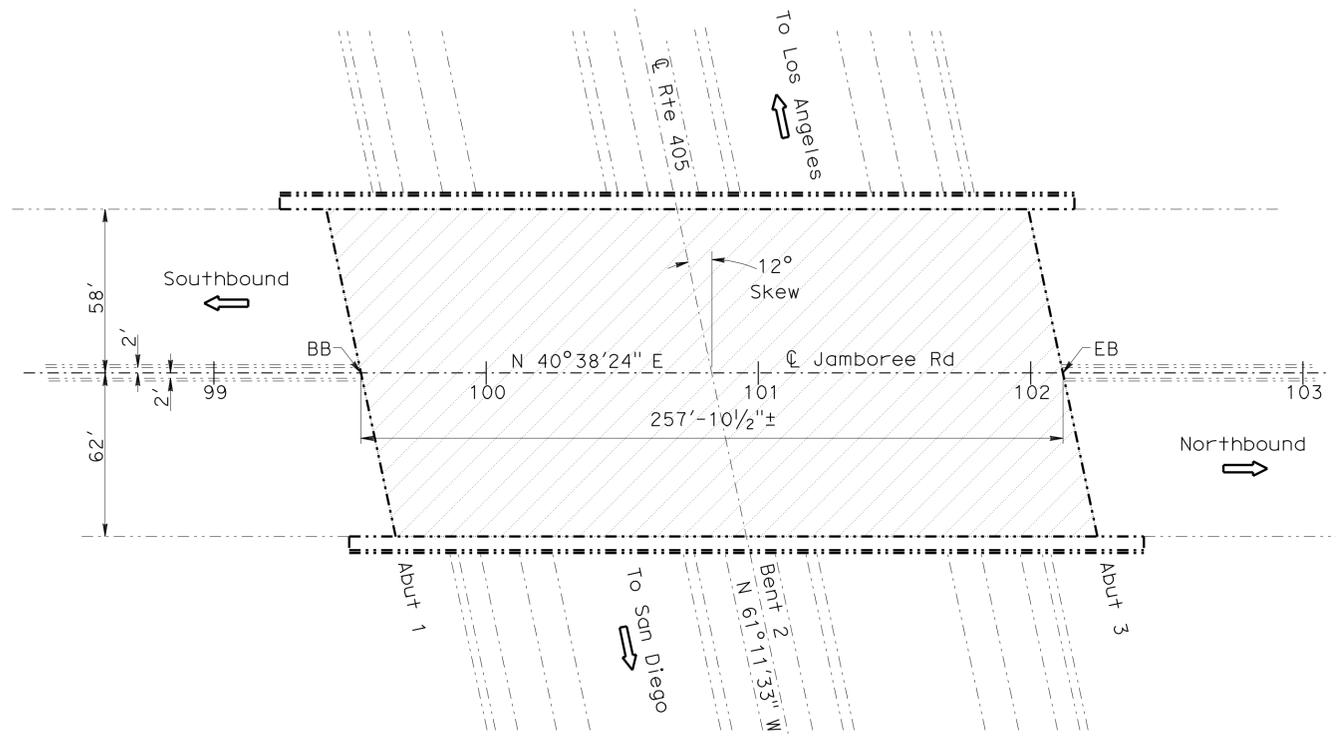
1-14-13
 PLANS APPROVAL DATE

Tony D. Brake
 No. C57863
 Exp. 06/30/14
 CIVIL
 STATE OF CALIFORNIA

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



JAMBOREE BOULEVARD OC

Br No. 55-0250, Rte 405, PM 6.92
 Scale 1"=30'

JAMBOREE BOULEVARD OC #55-0250
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	30,950 SQFT
TREAT BRIDGE DECK	30,950 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	442 GAL

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTES 5,57,73,91,133,261& 405 BRIDGES GENERAL PLAN NO. 10
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom			POST MILE	Varies	
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick			PLANS AND SPECS COMPARED	Theresa Nedwick	

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489 PROJECT NUMBER & PHASE: 1212000033 1 CONTRACT NO.: 12-0M3801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
06-27-12 06-28-12 10-11-12 10-22-12	10	17

FILE => 12-0M3801-a-gp10.dgn

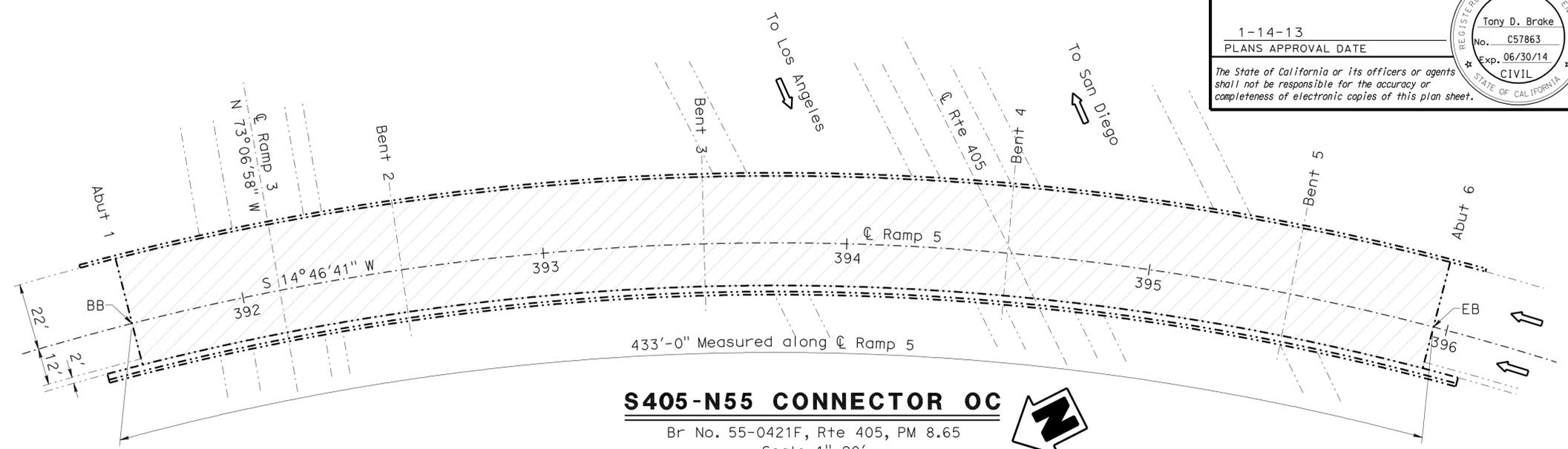
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	32	38

10-22-12
 REGISTERED CIVIL ENGINEER DATE
 1-14-13
 PLANS APPROVAL DATE
 Tony D. Brake
 No. C57863
 Exp. 06/30/14
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate.



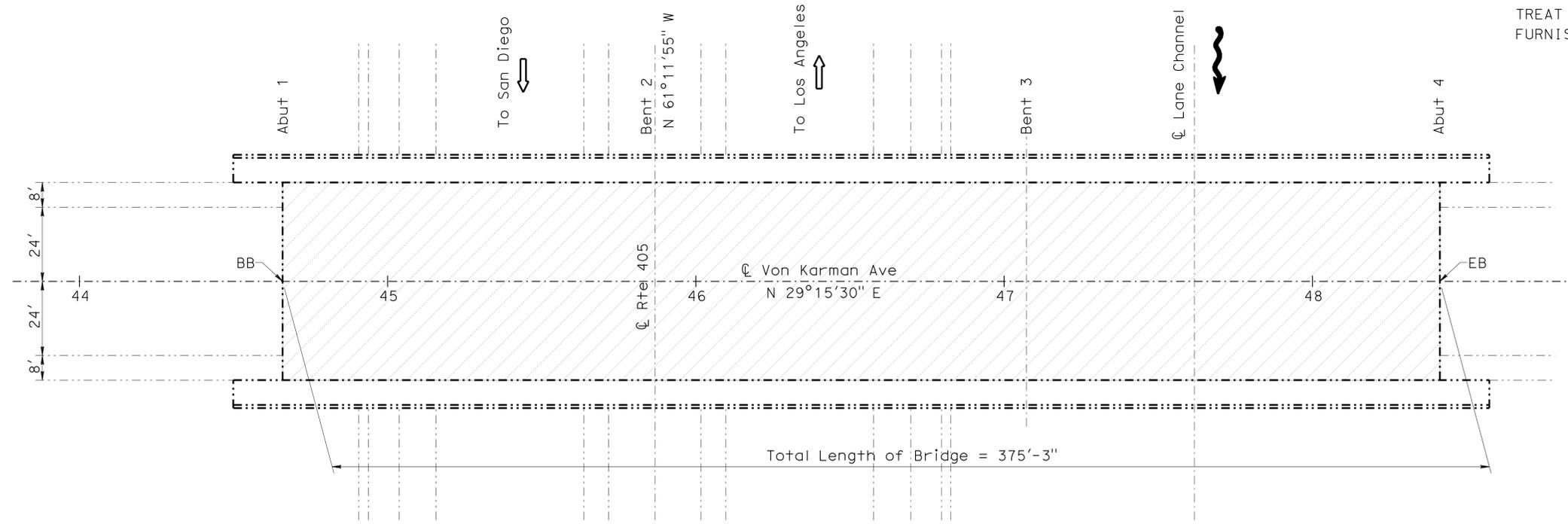
S405-N55 CONNECTOR OC

Br No. 55-0421F, Rte 405, PM 8.65
Scale 1"=20'



S405-N55 CONNECTOR OC #55-0421F
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	15,590 SQFT
TREAT BRIDGE DECK	15,590 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	223 GAL



VON KARMAN AVENUE OC

Br No. 55-0612, Rte 405, PM 7.4
Scale 1"=20'



VON KARMAN AVENUE OC #55-0612
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	24,020 SQFT
TREAT BRIDGE DECK	24,020 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	343 GAL

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies
ROUTES 5, 57, 73, 91, 133, 261 & 405 BRIDGES
GENERAL PLAN NO. 11

USERNAME => s1119571 DATE PLOTTED => 16-JAN-2013 TIME PLOTTED => 13:12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	33	38

Tony D. Brake 10-22-12
 REGISTERED CIVIL ENGINEER DATE

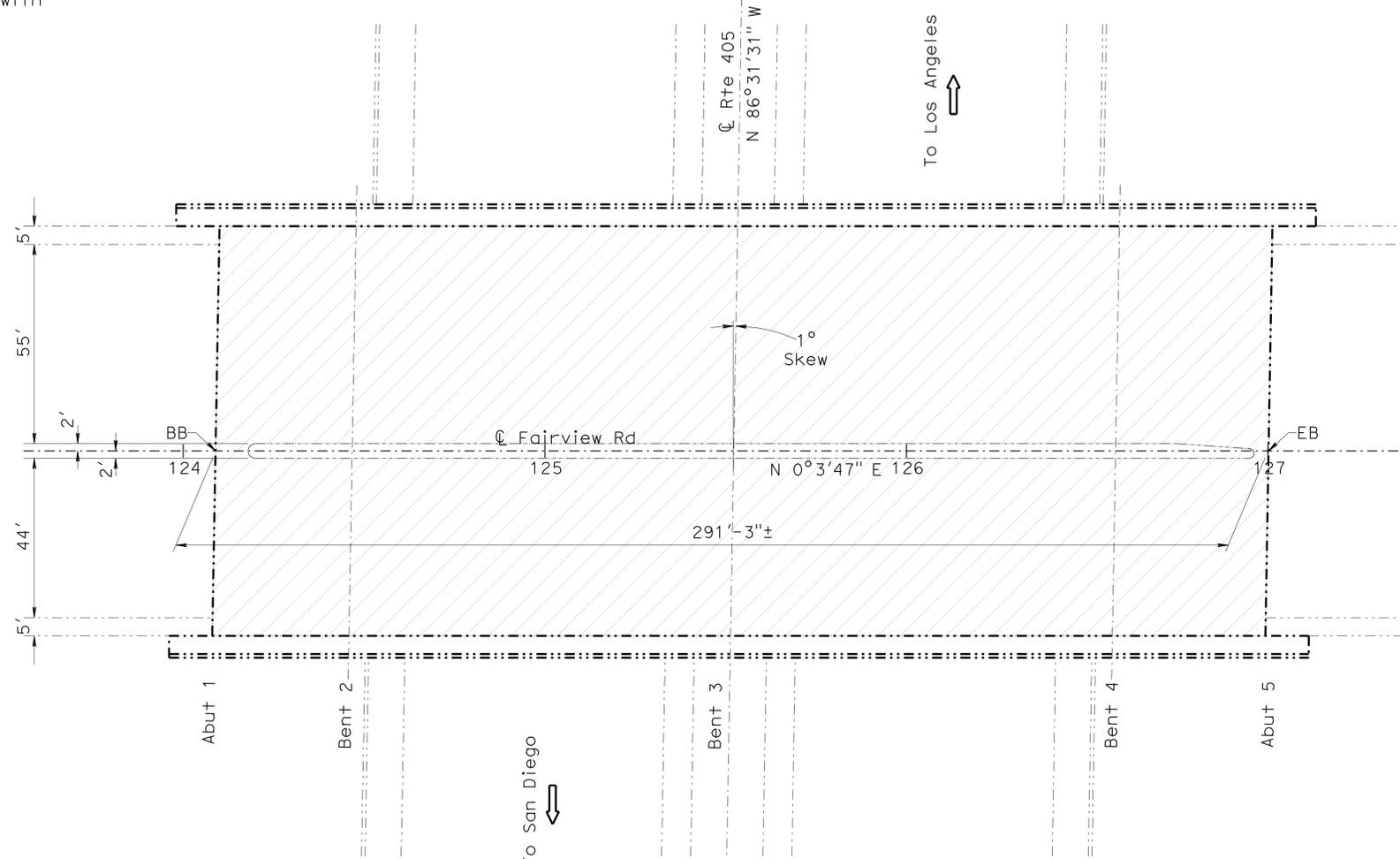
1-14-13
 PLANS APPROVAL DATE

Tony D. Brake
 No. C57863
 Exp. 06/30/14
 CIVIL
 STATE OF CALIFORNIA

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- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate.



FAIRVIEW ROAD OC ➔

Br No. 55-0432, Rte 405, PM 10.79
 Scale 1"=20'

FAIRVIEW ROAD OC #55-0432
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	31,750 SQFT
TREAT BRIDGE DECK	31,750 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	454 GAL

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

TONY D. BRAKE
 DESIGN ENGINEER

DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
 POST MILE Varies

ROUTES 5,57,73,91,133,261& 405 BRIDGES
GENERAL PLAN NO. 12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	34	38
<i>Tony D. Brake</i> REGISTERED CIVIL ENGINEER			10-22-12 DATE		
1-14-13 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.		

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.



Indicates limits of prepare concrete deck surface, furnish and place new 3/4" thick min polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Polyester concrete shall be place in one lift. Survey grades of the existing bridge deck surface shall be provided prior to placing the polyester concrete Overlay.



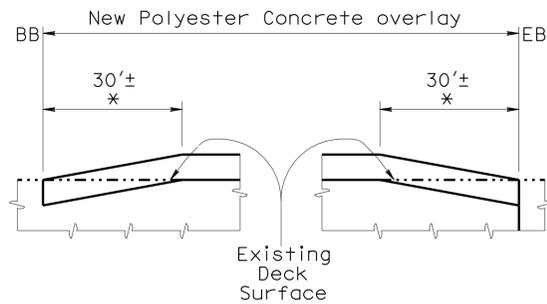
Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch).

NOTES:

- For joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For deck repair detail, see "MISCELLANEOUS DETAILS NO. 2" sheet.

HARBOR BOULEVARD UC #55-0257
QUANTITIES

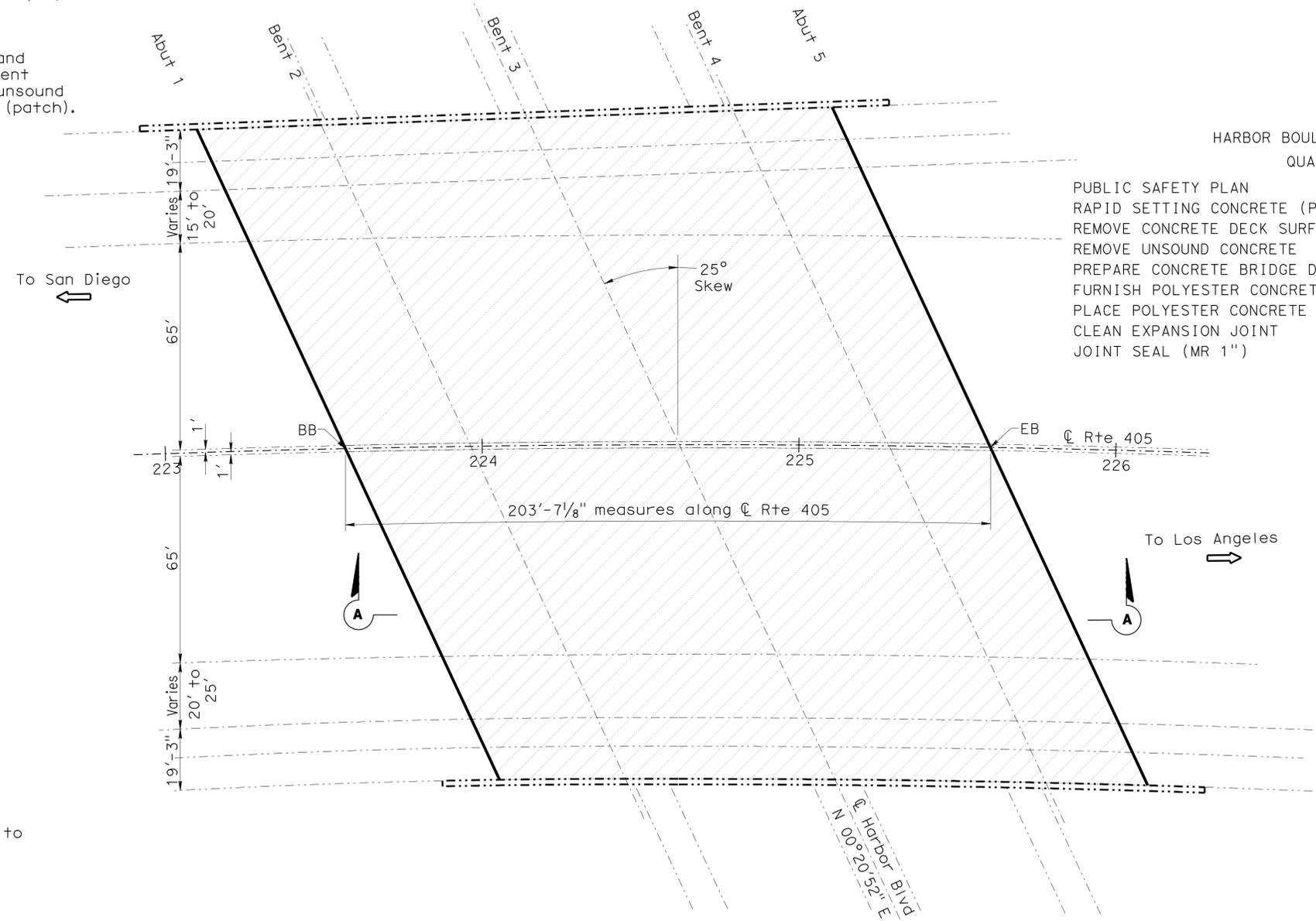
	LUMP SUM
PUBLIC SAFETY PLAN	
RAPID SETTING CONCRETE (PATCH)	106 CF
REMOVE CONCRETE DECK SURFACE	13,800 SQFT
REMOVE UNSOUND CONCRETE	106 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	42,450 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	2,653 CF
PLACE POLYESTER CONCRETE OVERLAY	42,450 SQFT
CLEAN EXPANSION JOINT	461 LF
JOINT SEAL (MR 1")	461 LF



SECTION A-A

No Scale

* Limits of remove concrete deck surfacing 0 inch min to 3/4 inch maximum full width. Grind flush to conform with existing profile.



HARBOR BOULEVARD UC

Br No. 55-0257, Rte 405, PM 11.45
Scale 1"=20'

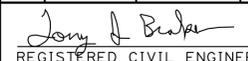


NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick

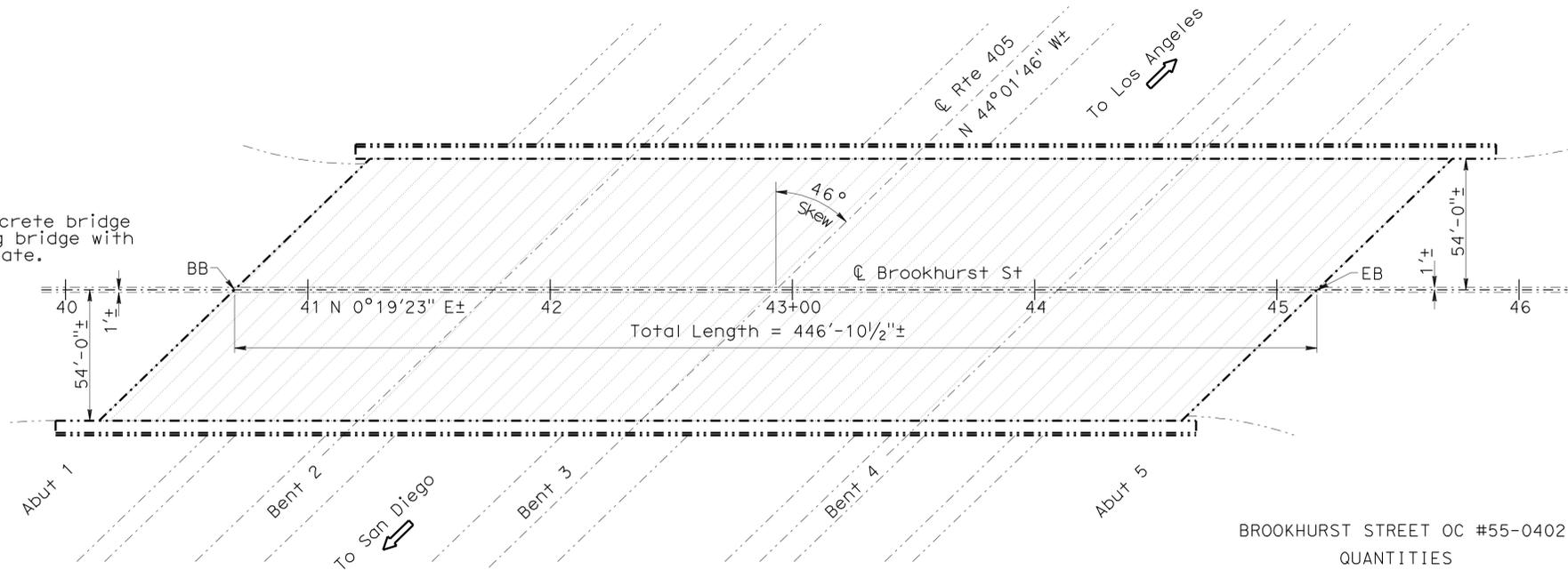
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	Various
		POST MILE

PROJECT NUMBER & PHASE: 1212000033 1	CONTRACT NO.: 12-0M3801	BRIDGE NO. Various	POST MILE Varies	ROUTES 5,57,73,91,133,261& 405 BRIDGES GENERAL PLAN NO. 13
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	35	38
 REGISTERED CIVIL ENGINEER			10-22-12	DATE	
PLANS APPROVAL DATE 1-14-13					
<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>					

LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate.

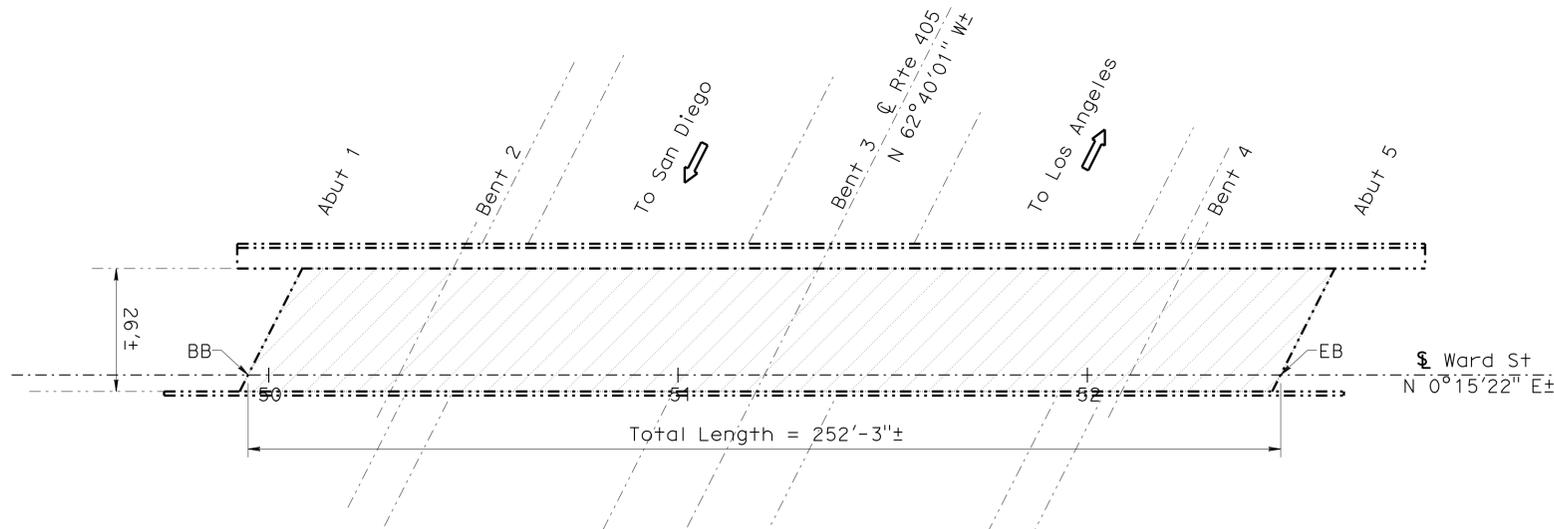


BROOKHURST STREET OC
 Br No. 55-0402, Rte 405, PM 13.78
 No Scale



BROOKHURST STREET OC #55-0402
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	47,370 SQFT
TREAT BRIDGE DECK	47,370 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	677 GAL



WARD STREET OC
 Br No. 55-0429, Rte 405, PM 13.15
 Scale 1"=20'



WARD STREET OC #55-0429
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	7,570 SQFT
TREAT BRIDGE DECK	7,570 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	108 GAL

NOTE:
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 DESIGN ENGINEER	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Tony Brake	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel	SPECIFICATIONS	BY Theresa Nedwick

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various
		POST MILE	Varies
		ROUTES 5,57,73,91,133,261& 405 BRIDGES GENERAL PLAN NO. 14	

USERNAME => s113946 DATE PLOTTED => 16-JAN-2013 TIME PLOTTED => 13:19

JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION	MINIMUM "MR" (INCHES)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX JOINT LENGTH (FT)	REMOVE UNSOUND CONCRETE (CU FT)	RAPID SETTING CONCRETE (PATCH) (CU FT)
Santa Ana River	55-0400	Abut 1	2*	YES	-	123	-	-
Douglas OH	55-0337	Abut 1	1	NO	9	84	1	1
		Abut 3	1	NO	9	84	1	1
Technology Drive UC & OH	55-0773R	Abut 1	4*	YES	-	70	-	-
		Abut 3	4*	YES	-	65	-	-
Irvine Center Drive OC	55-0442	Abut 1	1	NO	6	53	1	1
		Abut 5	1	NO	6	53	1	1
Harbor Blvd UC	55-0257	Abut 1	1	NO	9	225	1	1
		Abut 5	1	NO	9	236	1	1

* Replace neoprene gland in existing strip seal assembly

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	36	38

10-22-12
DATE

1-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

Tony D. Brake

No. C57863

Exp. 06/30/14

CIVIL

STATE OF CALIFORNIA

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NOTES:

The following notes apply to JOINT SEAL TYPE A:

Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see RSP B6-21.

The following notes apply to JOINT SEAL TYPE B:

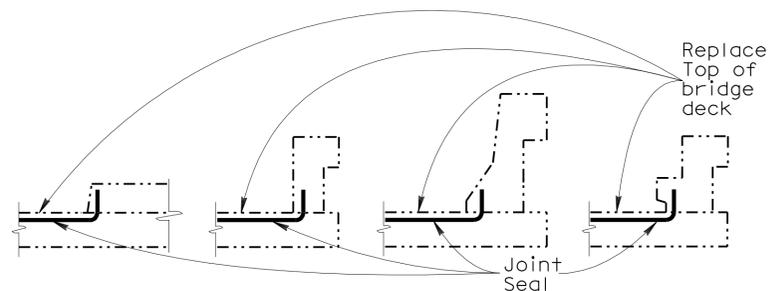
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

2) 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.

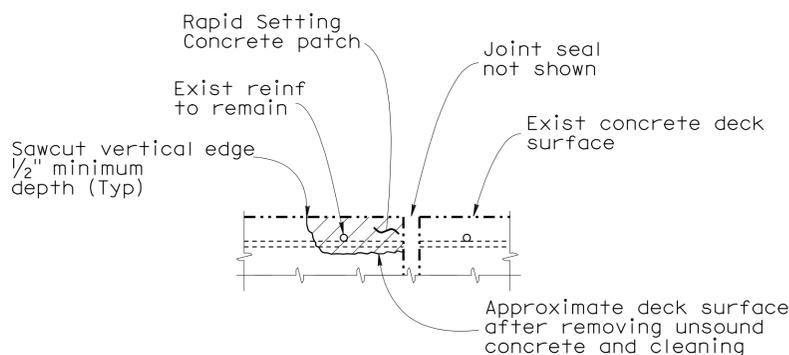
3) W1 shall be the smaller of the values determined as follows:
 A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.

4) Bend Type B joint seal 6 inches 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 Standard Plan B6-21.



BARRIER RAIL



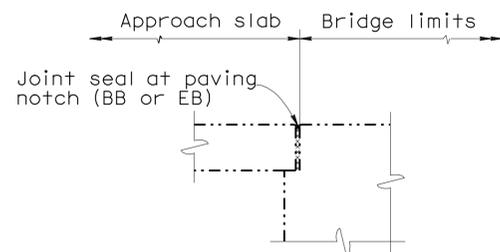
JOINT REPAIR DETAIL

Note: Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

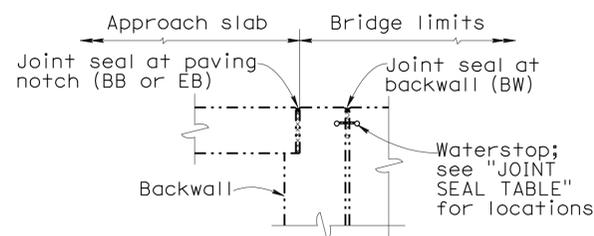
JOINT SEAL AT LOW SIDE OF DECK

Note: Details shown for illustration purposes only.

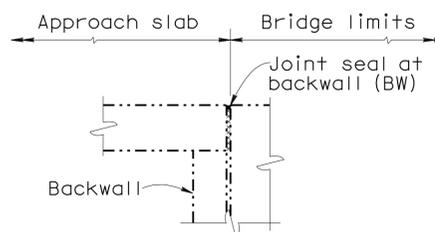
For use only where deck joint matches the sidewalk, curb or barrier rail joint.



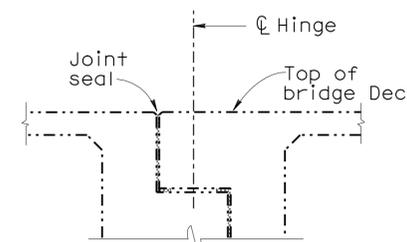
DIAPHRAGM ABUTMENT



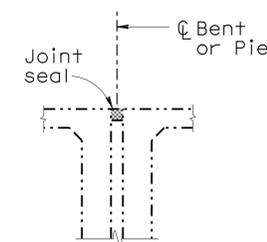
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

JOINT SEAL LOCATION

NO SCALE

NOTE:
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	DESIGN	BY Tony Brake	CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.	ROUTES 5, 57, 73, 91 & 133, 261, 405 BRIDGES MISCELLANEOUS DETAILS NO. 1
	DETAILS	BY Clayton Tom	CHECKED Tony Brake		STRUCTURE MAINTENANCE DESIGN	Various	
	QUANTITIES	BY Tony Brake	CHECKED Ramesh Patel			Varies	

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489 PROJECT NUMBER & PHASE: 1212000033 1 CONTRACT NO.: 12-0M3801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES

SHEET 15 OF 17

TIME PLOTTED => 1:31:13 DATE PLOTTED => 16-JAN-2013 USERNAME => s128843

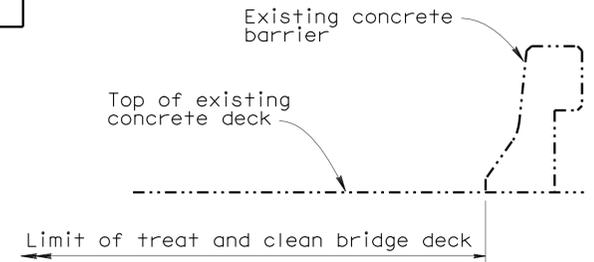
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	Var	Var	37	38
<i>Tony D. Brake</i> REGISTERED CIVIL ENGINEER			10-22-12 DATE		
1-14-13 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

DECK REPAIR NOTES:

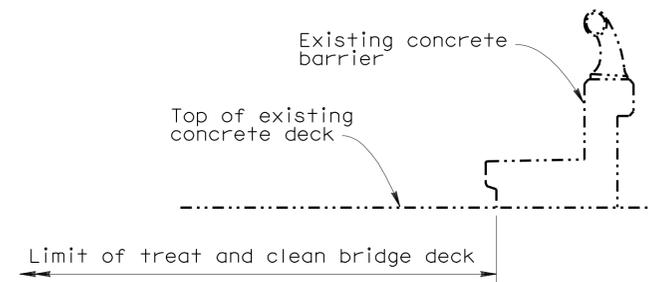
- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
- It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
- When existing transverse reinforcement is exposed in the deck surface, saw cutting shall be waived with the approval of the Engineer.
- The saw cut depth shall not exceed 1/2 inch or the concrete cover over the top steel reinforcing bars, whichever is less.
- Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.

**DECK REPAIR TABLE
REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)**

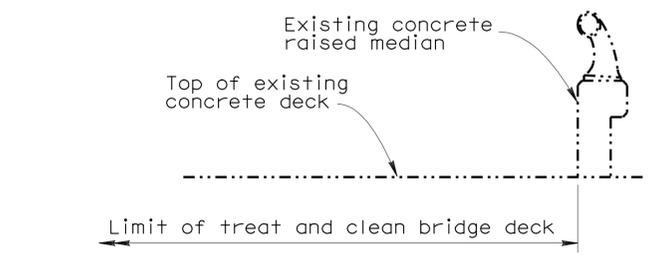
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCHES)
Harbor Blvd UC	55-0257	1	3



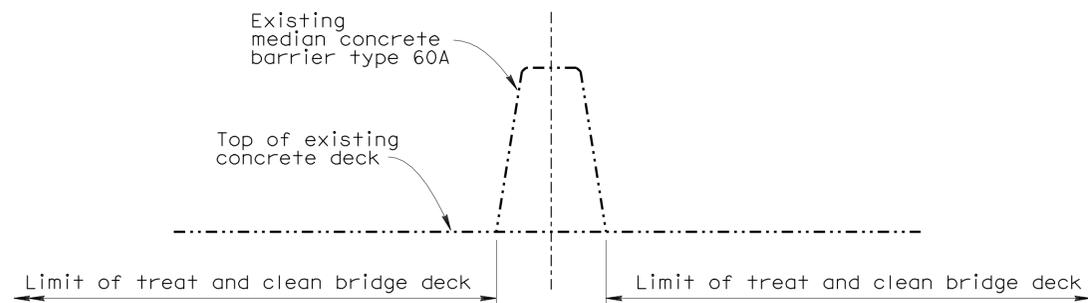
EOD BARRIER



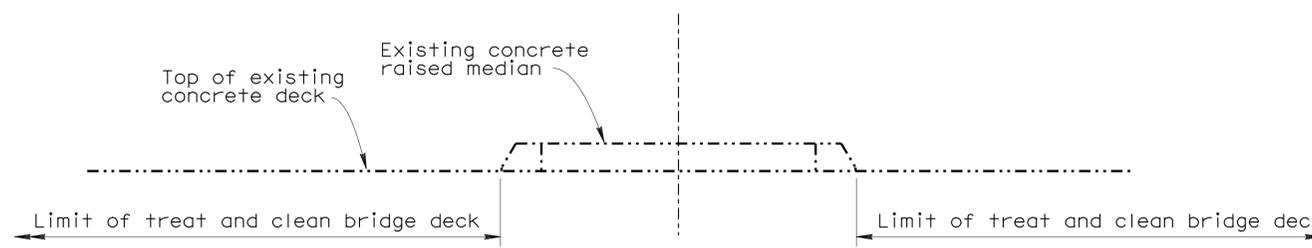
SIDEWALK BARRIER TYPE 2



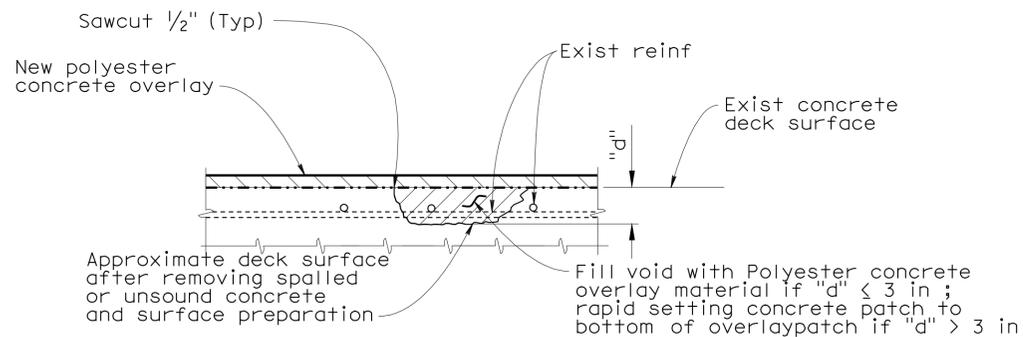
SIDEWALK BARRIER TYPE 1



MEDIAN BARRIER



RAISED MEDIAN



DECK REPAIR DETAIL - OVERLAY

(Br No. 55-0257)
Reinforcement may be encountered during deck concrete removal.
No Scale

TYPICAL LIMITS OF DECK WORK

NO SCALE

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DESIGN BY Tony Brake CHECKED Ramesh Patel DETAILS BY Clayton Tom CHECKED Tony Brake QUANTITIES BY Tony Brake CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various POST MILE Varies	ROUTES 5, 57, 73, 91 & 133, 261, 405 BRIDGES MISCELLANEOUS DETAILS NO. 2
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3489 PROJECT NUMBER & PHASE: 1212000033 1	CONTRACT NO.: 12-0M3801
	STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)			DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES: 06-27-12, 06-28-12, 10-11-12, 10-23-12 SHEET 16 OF 17

