Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	1	38

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION AREA SIGNS
4-7	TRAFFIC HANDLING PLAN (DETOUR)
8-9	TRAFFIC HANDLING QUANTITIES
10	PAVEMENT DELINEATION QUANTITIES
11-19	REVISED STANDARD PLANS
STRUCTURE PLANS	
20-34	GENERAL PLANS No.1 TO No.15
35-36	MISCELLANEOUS DETAILS No.1 TO No.2
37	JOINT SEAL ASSEMBLY DETAILS
38	TEMPORARY STEEL DECKING

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

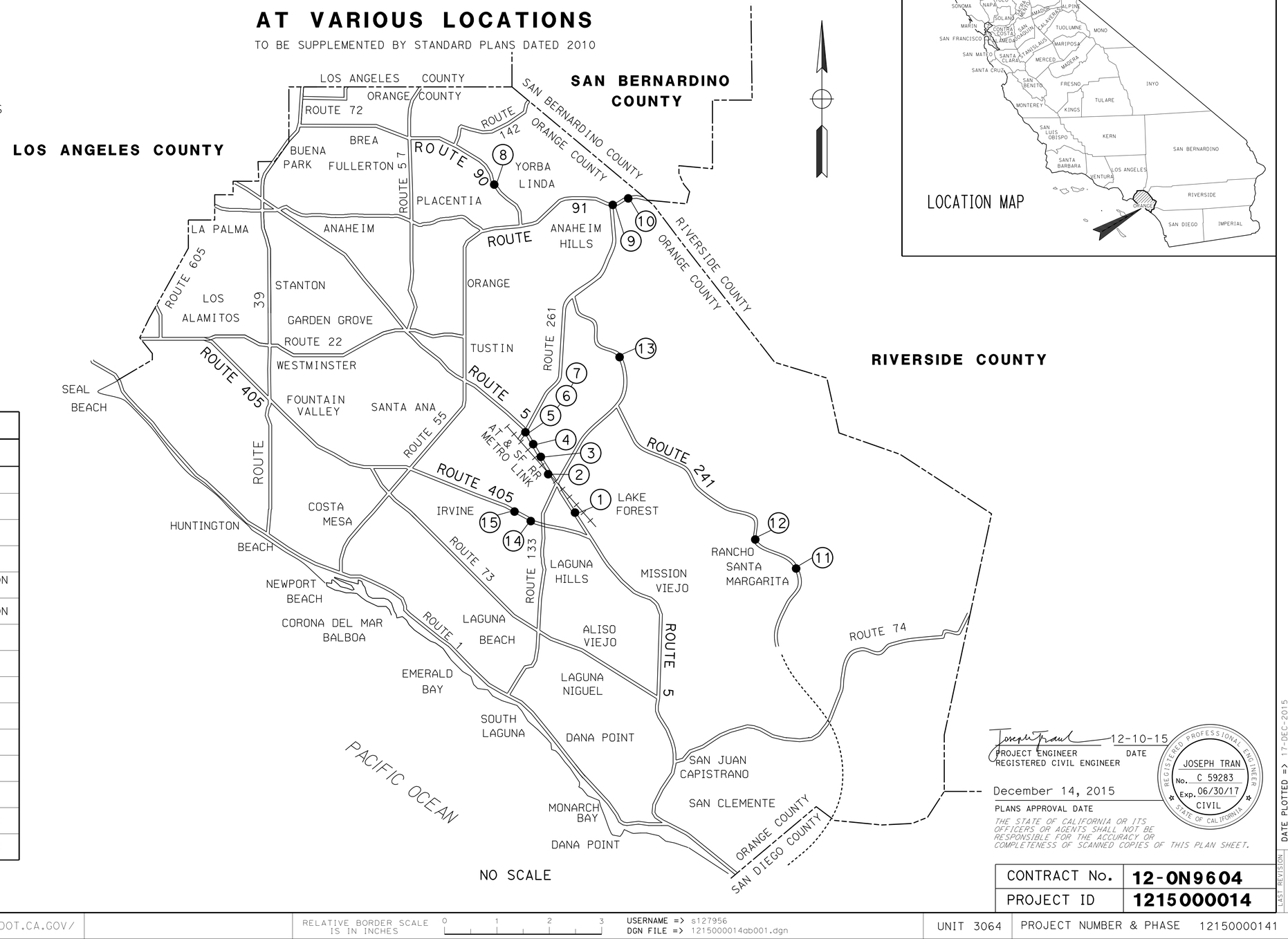
STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN ORANGE COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



NO SCALE

LOCATION MAP

LOCATIONS OF CONSTRUCTION				
No.	Br No.	Rte	PM	NAME
1	55-0665	5	22.80	BARRANCA PARKWAY OC
2	55-0002	5	R23.58	IRVINE OH
3	55-0201	5	R23.94	SAND CANYON AVENUE UC
4	55-0663	5	R27.25	PETERS CANYON
5	55-0763S	5	27.50	ROUTE 5/261 SEPARATION (JAMBOREE OFF-RAMP)
6	55-0688	5	27.53	ROUTE 5/261 SEPARATION
7	55-0656	5	27.59	JAMBOREE ROAD UC
8	55-0345	90	10.07	LAKEVIEW AVENUE OC
9	55-0794F	91	R16.31	W91-S241 CONNECTOR
10	55-0507L	91	R17.95	COAL CANYON ROAD UC
11	55-0700R	241	18.70	TRABUCO CREEK
12	55-0702	241	20.12	LOS ALISOS BLVD OC
13	55-0895	241	28.70	HAUL ROAD UC
14	55-0247	405	2.20	LAGUNA CANYON ROAD OC
15	55-0443	405	2.88	SAND CANYON AVENUE OC

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

PROJECT MANAGER: MASSOUD TAJIK

DESIGN MANAGER: MASSOUD TAJIK

Joseph Tran 12-10-15
PROJECT ENGINEER — DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — JOSEPH TRAN — No. C 59283 — Exp. 06/30/17 — CIVIL — STATE OF CALIFORNIA

December 14, 2015
PLANS APPROVAL DATE

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

CONTRACT No.	12-0N9604
PROJECT ID	1215000014

LAST REVISION 10-15-15
DATE PLOTTED => 17-DEC-2015
TIME PLOTTED => 08:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	2	38

Joseph Tran 12-10-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

JOSEPH TRAN No. C59283 Exp. 6/30/17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 4" X 4"	18
(B)	G20-2		48" x 24"	END ROAD WORK	1 - 4" x 4"	17
(C)		SC6-3	48" x 48"	RAMP CLOSED	1 - 4" X 4"	9
(D)		W11-1	36" x 36"	(BIKE SYMBOL)	1 - 4" X 4"	4
(E)		W16-1P	24" x 30"	SHARE THE ROAD	1 - 4" X 4"	6

NOTES:

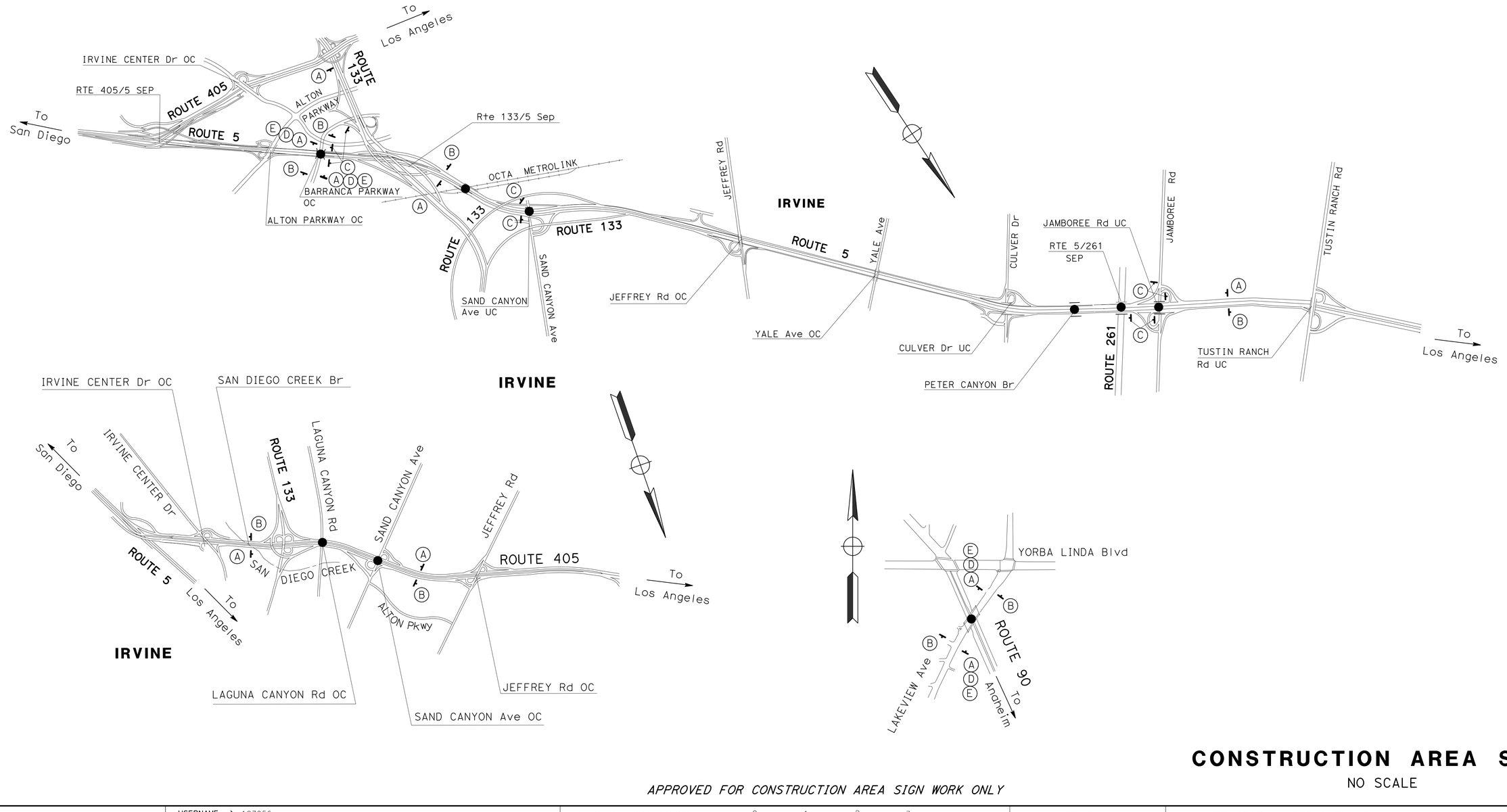
1. EXACT LOCATION AND POSITION OF SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL QUANTITIES OF CONSTRUCTION AREA SIGNS, SEE SHEET THQ-1.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. (C) SIGN SHALL BE PLACED 10 DAYS PRIOR TO CLOSURE.
5. SIGN POST LENGTH ARE APPROXIMATE, EXACT SIZE AND LENGTH WILL BE DETERMINED BY THE ENGINEER.

LEGEND:

(X) CONSTRUCTION AREA SIGN No.

CONSTRUCTION AREA SIGN, 1-POST

CONSTRUCION WORK AREA



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE
FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
CALCULATED-DESIGNED BY: JOSEPH TRAN
CHECKED BY: LOANNA HUYNH
REVISED BY: J~T
DATE REVISED: 10-15-15

LAST REVISION 10-15-15
DATE PLOTTED => 17-DEC-2015
TIME PLOTTED => 08:14

BORDER LAST REVISED 7/2/2010
USERNAME => s127956
DGN FILE => 12150000014la001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 3064
PROJECT NUMBER & PHASE 12150000141

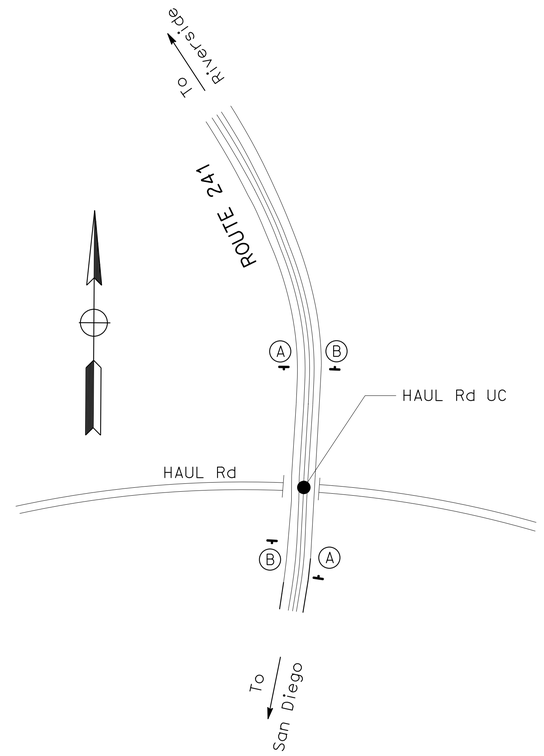
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	3	38

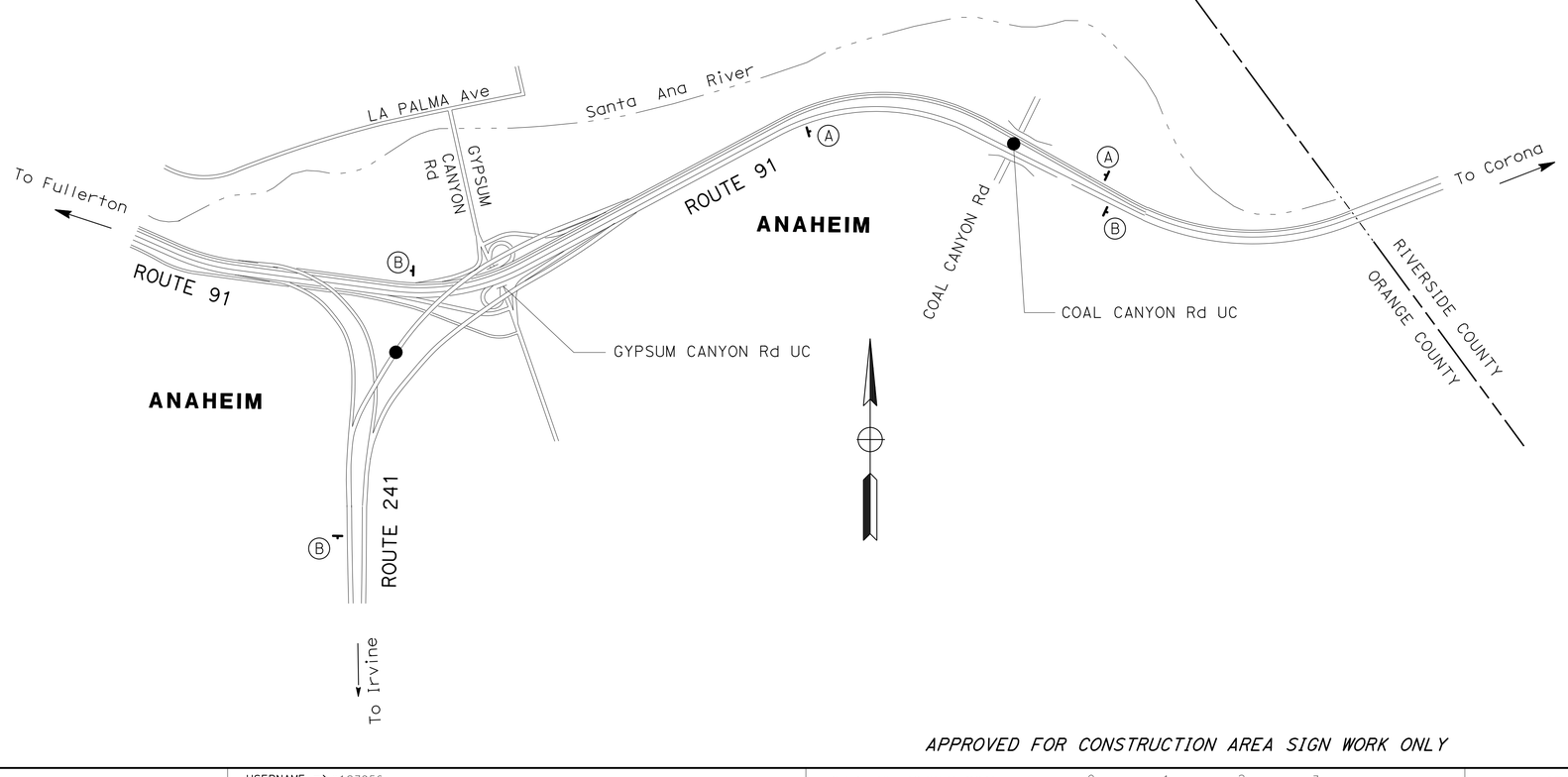
Joseph Tran 12-10-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOSEPH TRAN
No. C59283
Exp. 6/30/17
CIVIL
STATE OF CALIFORNIA

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





APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
MAINTENANCE

FUNCTIONAL SUPERVISOR: MASSOUD TAJIK

CALCULATED-DESIGNED BY: JOSEPH TRAN
CHECKED BY: LOANNA HUYNH

REVISED BY: J~T
DATE REVISED: 10-15-15

LAST REVISION
DATE PLOTTED => 17-DEC-2015
TIME PLOTTED => 08:14

BORDER LAST REVISED 7/2/2010

USERNAME => s127956
DGN FILE => 12150000141da002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 3064

PROJECT NUMBER & PHASE 12150000141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	4	38

REGISTERED CIVIL ENGINEER — DATE 12-10-15

JOSEPH TRAN No. C59283 Exp. 6/30/17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

12-14-15
PLANS APPROVAL DATE

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

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS (DETOUR) AND PCMS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. EXACT MESSAGE TO BE DISPLAYED ON THE PCMS WILL BE DETERMINED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. FOR ADDITIONAL QUANTITIES OF CONSTRUCTION AREA SIGNS , SEE SHEET CS-1.

LEGEND:

- DIRECTION OF TRAVEL THROUGH DETOUR
- CONSTRUCTION AREA SIGN (DETOUR), 1-POST
- PCMS-1 — PORTABLE CHANGEABLE MESSAGE SIGN
- X — CONSTRUCTION AREA SIGN (DETOUR)
- CONNECTORS OR RAMPS CLOSURE
- CONSTRUCTION WORK AREA

ABBREVIATION:

OCTA ORANGE COUNTY TRANSPORTATION AUTHORITY

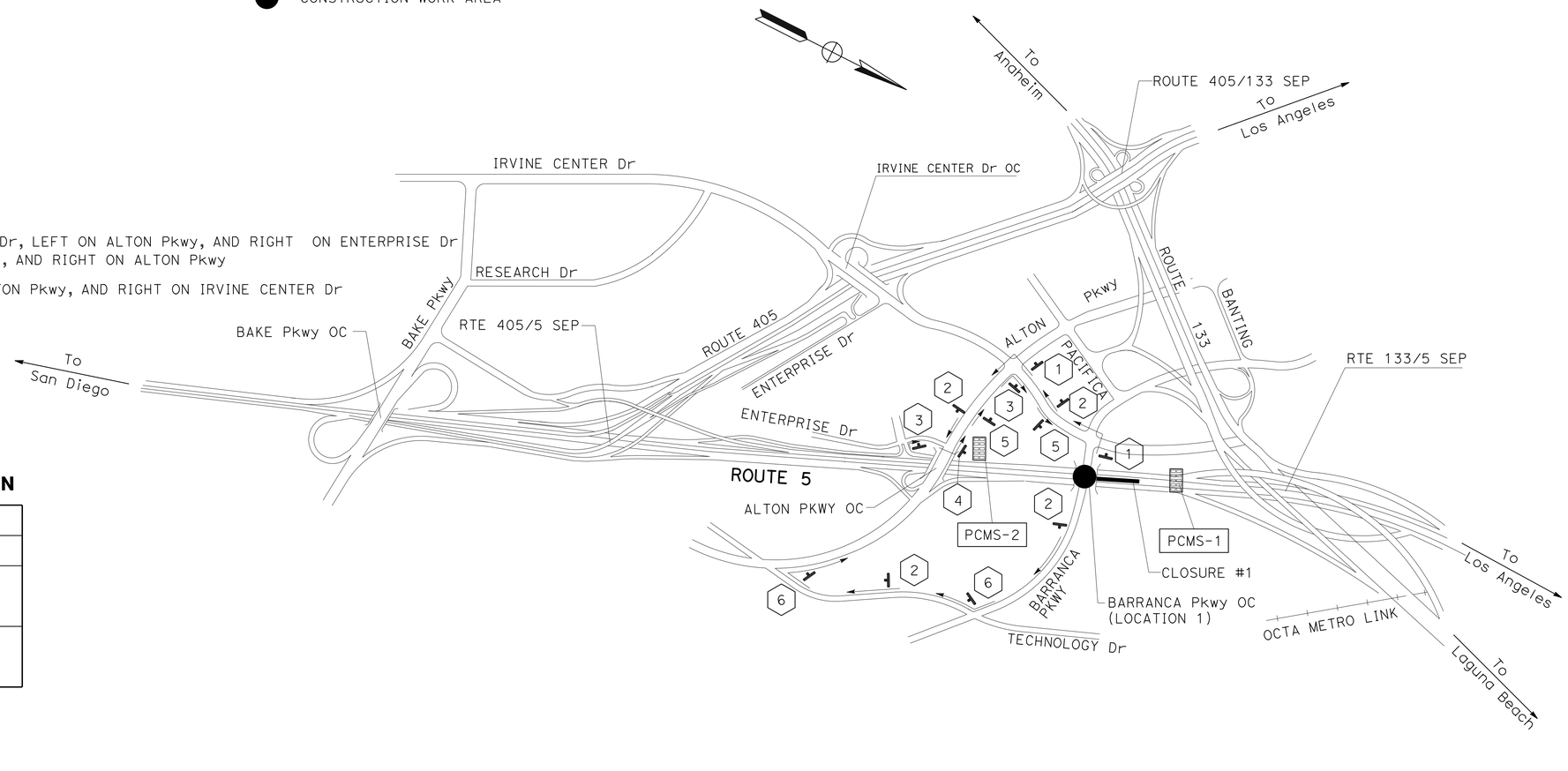
CLOSURE #1:

a- NB ROUTE 5 BARRANCA Pkwy HOV ON-RAMP
b- SB ROUTE 5 BARRANCA Pkwy HOV OFF-RAMP

DETOUR:

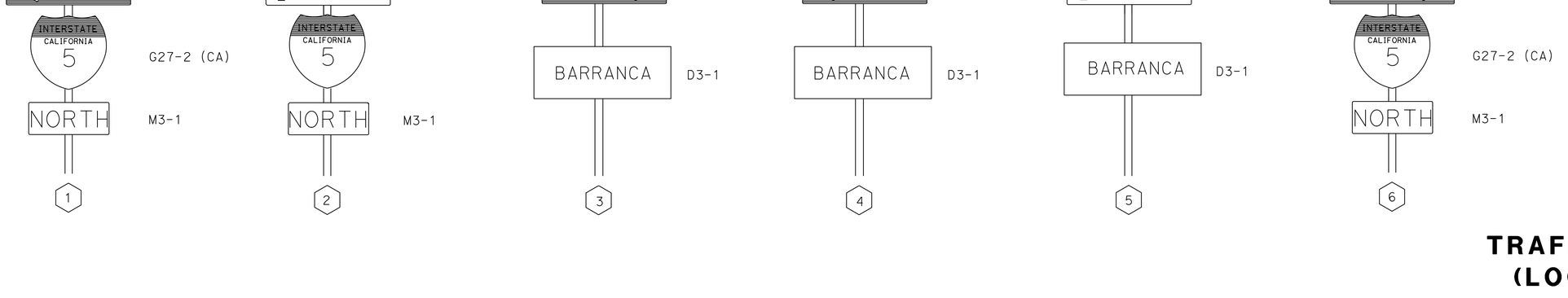
a- * FROM SOUTH BARRANCA Pkwy: LEFT ON IRVINE CENTER Dr, LEFT ON ALTON Pkwy, AND RIGHT ON ENTERPRISE Dr
* FROM NORTH BARRANCA Pkwy: RIGHT ON TECHNOLOGY DR, AND RIGHT ON ALTON Pkwy

b- Exit ALTON Pkwy, RIGHT ON ENTERPRISE Dr, LEFT ON ALTON Pkwy, AND RIGHT ON IRVINE CENTER Dr



PORTABLE CHANGEABLE MESSAGE SIGN

PCMS No.	MESSAGE	
	1ST FRAME	2ND FRAME
PCMS-1	BARRANCA Pkwy HOV OFF-RAMP CLOSED	USE ALTON PKWY EXIT
PCMS-2	DETOUR BARRANCA Pkwy	EXIT HERE



APPROVED FOR TRAFFIC HANDLING WORK ONLY

TRAFFIC HANDLING PLAN (LOCATION 1 DETOUR)

NO SCALE

TH-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — MAINTENANCE
FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
CALCULATED-DESIGNED BY: JOSEPH TRAN
CHECKED BY: LOANNA HUYNH
REVISED BY: J-T — DATE REVISED: 10-15-15
LAST REVISION — DATE PLOTTED => 17-DEC-2015 — TIME PLOTTED => 08:14
10-15-15

BORDER LAST REVISED 7/2/2010 | USERNAME => s127956 | DGN FILE => 1215000014md001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 3064 | PROJECT NUMBER & PHASE 12150000141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	5	38

Joseph Tran 12-10-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOSEPH TRAN
No. C59283
Exp. 6/30/17
CIVIL
STATE OF CALIFORNIA

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

CLOSURE #2:

a- NB ROUTE 133 BARRANCA Pkwy ON-RAMP
b- NB ROUTE 133 TO NB ROUTE 5 CONNECTOR

DETOUR

a- RIGHT ON SAND CANYON Ave
b- Exit BARRANCA Pkwy, RIGHT ON PACIFICA AND LEFT ON ALTON Pkwy

CLOSURE #3:

SB ROUTE 5 SAND CANYON Ave ON-RAMP

DETOUR:

- FROM WEST SAND CANYON Ave: LEFT ON TRABUCO Rd, AND LEFT ON JEFFREY Rd
- FROM EAST SAND CANYON Ave: LEFT ON IRVINE Blvd, LEFT ON ALTON Pkwy, AND RIGHT ON ENTERPRISE Dr

CLOSURE #4:

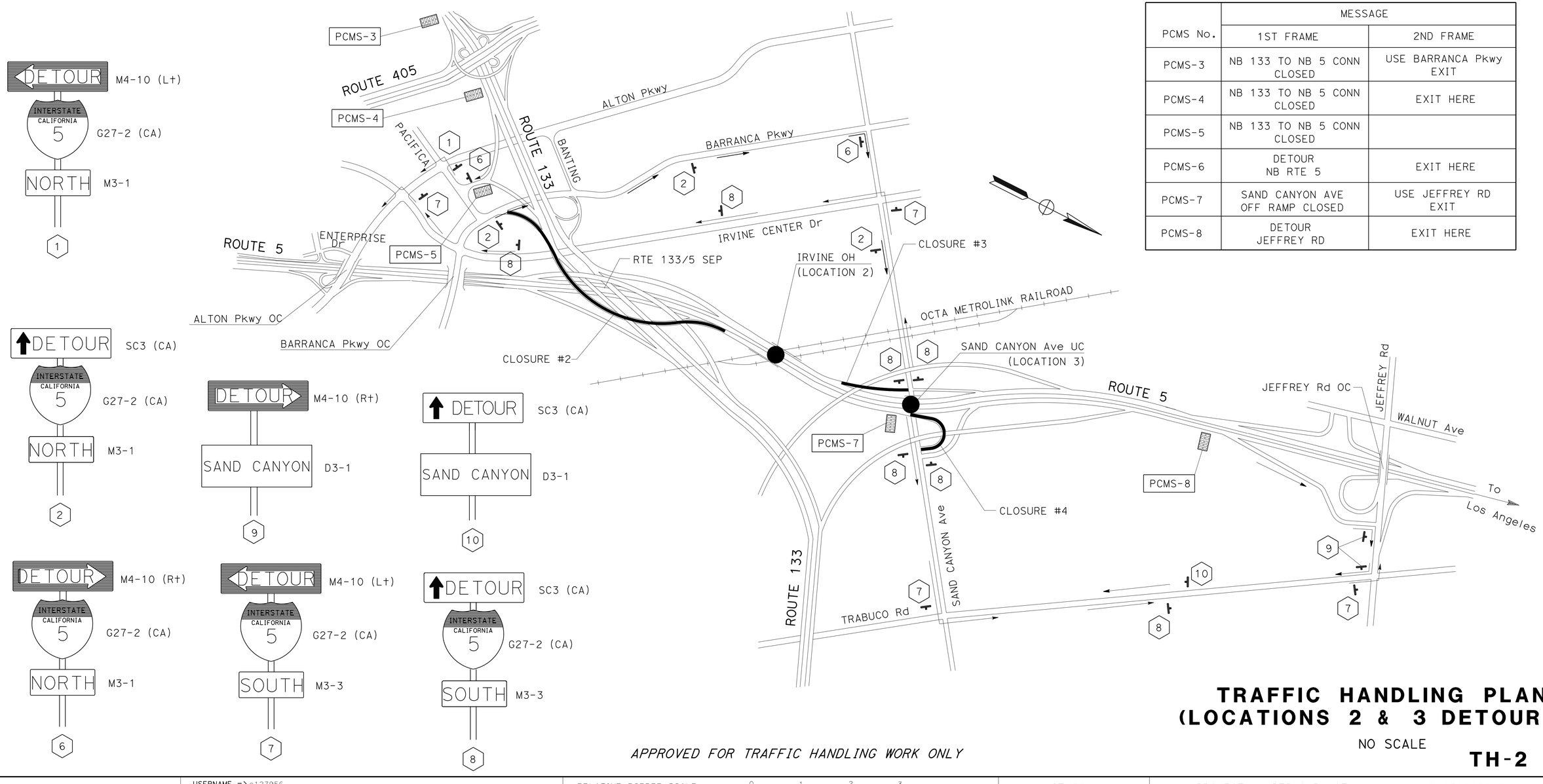
NB ROUTE 5 SAND CANYON Ave OFF-RAMP

DETOUR:

Exit JEFFREY Rd, RIGHT ON JEFFREY Rd, AND RIGHT ON TRABUCO Rd

PORTABLE CHANGEABLE MESSAGE SIGN

PCMS No.	MESSAGE	
	1ST FRAME	2ND FRAME
PCMS-3	NB 133 TO NB 5 CONN CLOSED	USE BARRANCA Pkwy EXIT
PCMS-4	NB 133 TO NB 5 CONN CLOSED	EXIT HERE
PCMS-5	NB 133 TO NB 5 CONN CLOSED	
PCMS-6	DETOUR NB RTE 5	EXIT HERE
PCMS-7	SAND CANYON AVE OFF RAMP CLOSED	USE JEFFREY RD EXIT
PCMS-8	DETOUR JEFFREY RD	EXIT HERE



APPROVED FOR TRAFFIC HANDLING WORK ONLY

TRAFFIC HANDLING PLAN (LOCATIONS 2 & 3 DETOUR)

NO SCALE

TH-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE
Caltrans

FUNCTIONAL SUPERVISOR	MASSOUD TAJIK	
CALCULATED-DESIGNED BY	JOSEPH TRAN	J~T
CHECKED BY	LOANNA HUYNH	10-15-15
REVISED BY		DATE REVISED

LAST REVISION | DATE PLOTTED => 17-DEC-2015
10-15-15 | TIME PLOTTED => 08:14

BORDER LAST REVISED 7/2/2010 | USERNAME => s127956 | DGN FILE => 1215000014md002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 3064 | PROJECT NUMBER & PHASE 12150000141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	6	38

Joseph Tran 12-10-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOSEPH TRAN No. C59283 Exp. 6/30/17 CIVIL — STATE OF CALIFORNIA

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

CLOSURE #5:

SB ROUTE 5 JAMBOREE ON-RAMP

DETOUR

RIGHT ON BRYAN Ave, AND RIGHT ON CULVER Dr

CLOSURE #6:

NB ROUTE 5 JAMBOREE Rd OFF-RAMP

DETOUR:

Exit TUSTIN RANCH Rd, LEFT ON TUSTIN RANCH Rd, AND RIGHT ON EL CAMINO REAL

CLOSURE #7:

SB ROUTE 5 JAMBOREE Rd LOOP ON-RAMP

DETOUR:

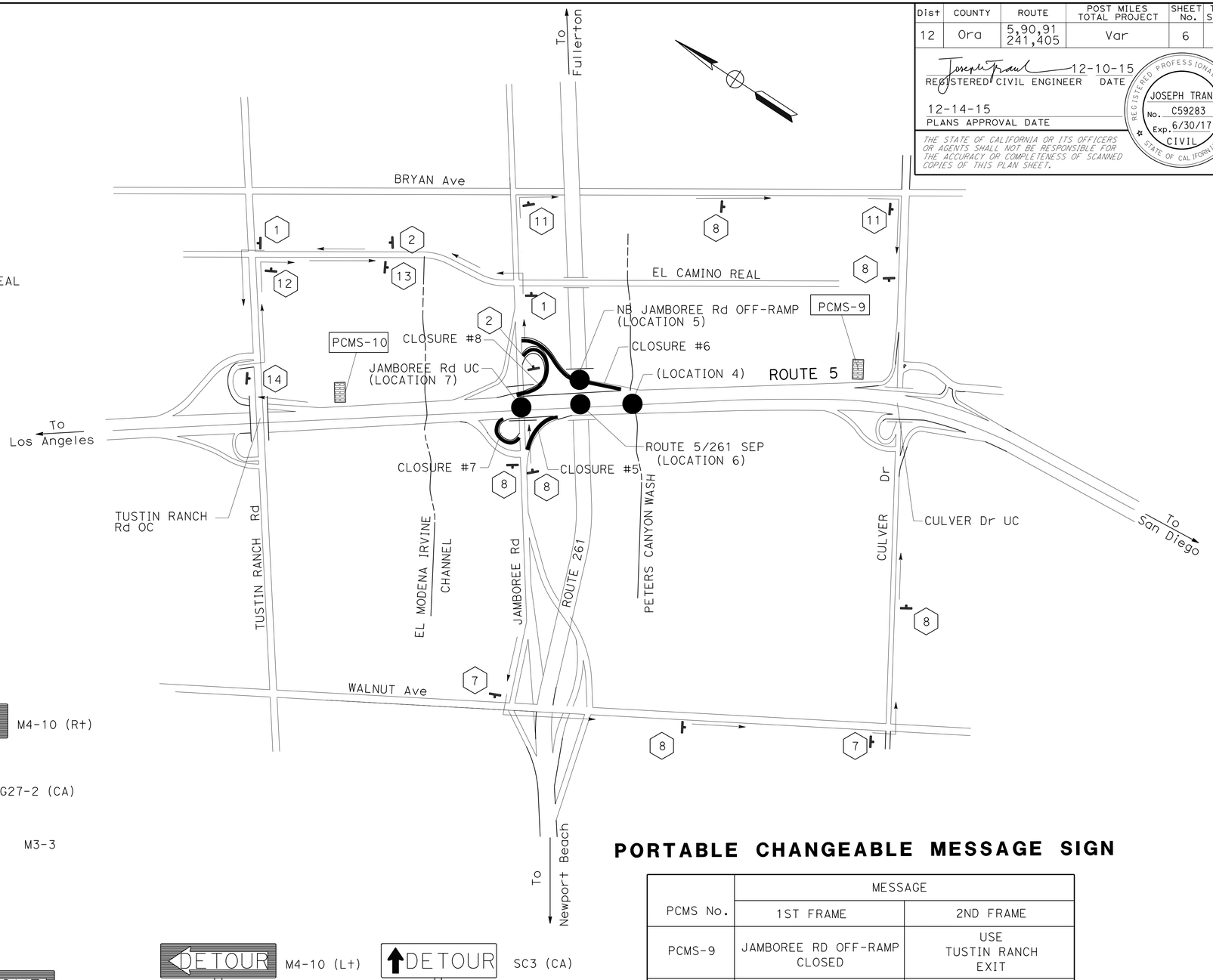
LEFT ON WALNUT Ave, AND LEFT ON CULVER Dr

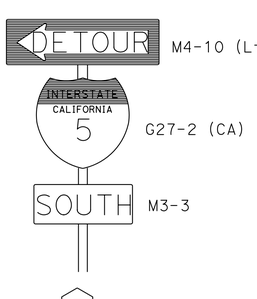
CLOSURE #8:

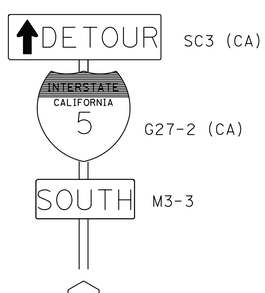
NB ROUTE 5 JAMBOREE Rd LOOP ON-RAMP

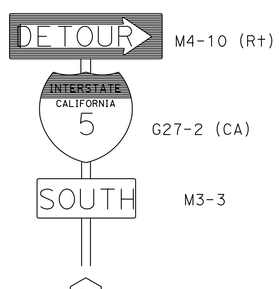
DETOUR:

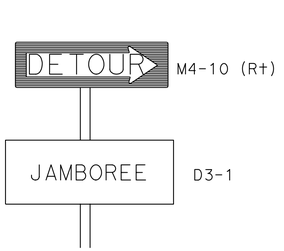
LEFT ON EL CAMINO REAL, AND LEFT ON TUSTIN RANCH Rd

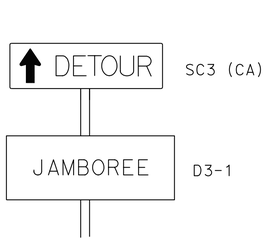


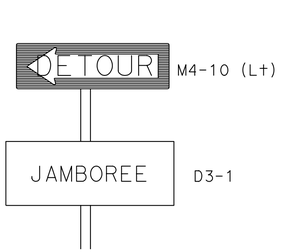


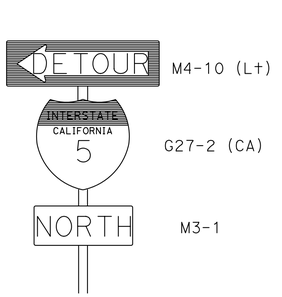


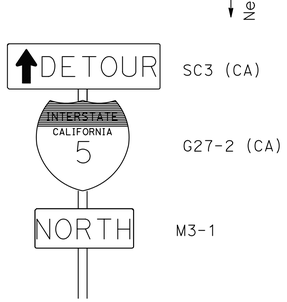












PORTABLE CHANGEABLE MESSAGE SIGN

PCMS No.	MESSAGE	
	1ST FRAME	2ND FRAME
PCMS-9	JAMBOREE RD OFF-RAMP CLOSED	USE TUSTIN RANCH EXIT
PCMS-10	DETOUR JAMBOREE RD	EXIT HERE

APPROVED FOR TRAFFIC HANDLING WORK ONLY

TRAFFIC HANDLING PLAN (LOCATIONS 4, 5, 6 & 7 DETOUR)

NO SCALE

TH-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE
Caltrans

FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
CALCULATED-DESIGNED BY: J~T
CHECKED BY: JOSEPH TRAN
REVISED BY: LOANNA HUYNH
DATE REVISED: 10-15-15

LAST REVISION DATE PLOTTED => 17-DEC-2015
TIME PLOTTED => 08:14

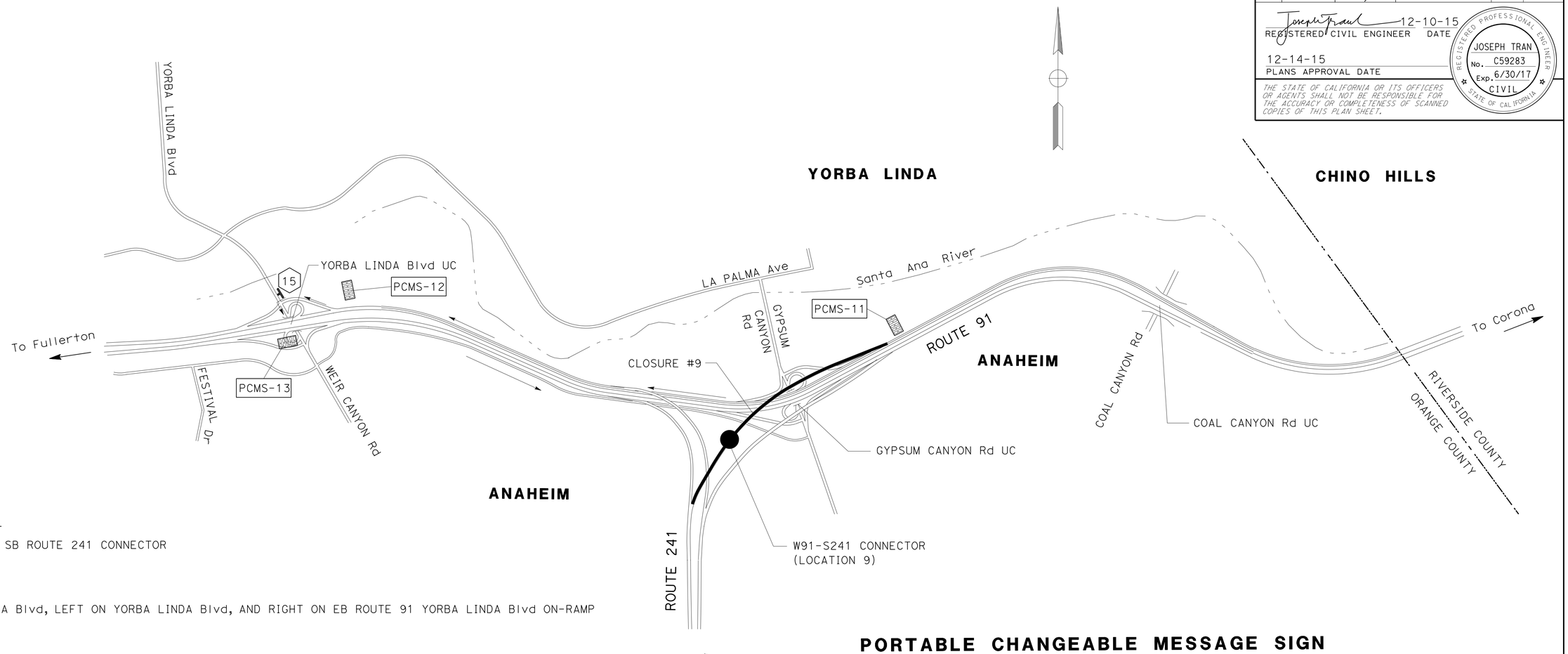
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	7	38

Joseph Tran 12-10-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOSEPH TRAN
No. C59283
Exp. 6/30/17
CIVIL
STATE OF CALIFORNIA

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

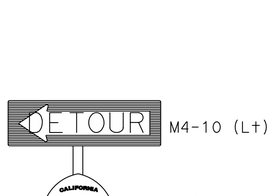


CLOSURE #9:

WB ROUTE 91 TO SB ROUTE 241 CONNECTOR

DETOUR:

Exit YORBA LINDA Blvd, LEFT ON YORBA LINDA Blvd, AND RIGHT ON EB ROUTE 91 YORBA LINDA Blvd ON-RAMP



PORTABLE CHANGEABLE MESSAGE SIGN

PCMS No.	MESSAGE	
	1ST FRAME	2ND FRAME
PCMS-11	WB 91 TO SB 241 CLOSED	USE EB ROUTE 91
PCMS-12	TO SB ROUTE 241	EXIT HERE
PCMS-13	TO SB ROUTE 241	USE EB ROUTE 91

APPROVED FOR TRAFFIC HANDLING WORK ONLY

TRAFFIC HANDLING PLAN (LOCATION 9 DETOUR)

NO SCALE

TH-4

CALCULATED-DESIGNED BY: J~T
CHECKED BY: 10-15-15
REVISED BY
DATE REVISED
JOSEPH TRAN
LOANNA HUYNH
FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
MAINTENANCE

LAST REVISION: DATE PLOTTED => 17-DEC-2015
TIME PLOTTED => 08:14
10-15-15

BORDER LAST REVISED 7/2/2010
USERNAME => s127956
DGN FILE => 1215000014md004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 3064
PROJECT NUMBER & PHASE 12150000141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	8	38

Joseph Tran 12-10-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOSEPH TRAN
No. C59283
Exp. 6/30/17
CIVIL
STATE OF CALIFORNIA

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

NOTES:

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

PORTABLE CHANGEABLE MESSAGE SIGN QUANTITY

SHEET No.	PCMS (EA)
TH-1	2
TH-2	6
TH-3	2
TH-4	3
TOTAL	13

CONSTRUCTION AREA SIGN INFORMATION

SIGN CODE		PANEL SIZE	SIGN MESSAGE
FEDERAL	CALIFORNIA		
D3-1		VARIES x 6"	STREET NAME
	G27-2	21" x 18"	INTERSTATE ROUTE
	G28-2	21" x 18"	STATE ROUTE
M3-1		24" x 12"	NORTH
M3-3		24" x 12"	SOUTH
M4-10 (R†)		48" x 18"	DETOUR
M4-10 (L†)		48" x 18"	DETOUR
	SC3	36" x 12"	DETOUR (WITH ARROW)

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SHEET No.	DETOUR SIGN TYPE	POST SIZE (IN)	No. OF SIGNS	No. OF POSTS
TH-1	1	4 x 6	2	2
	2	4 x 6	4	4
	3	4 x 6	2	2
	4	4 x 6	1	1
	5	4 x 6	2	2
	6	4 x 6	2	2
TH-2	1	4 x 6	1	1
	2	4 x 6	3	3
	6	4 x 6	1	1
	7	4 x 6	4	4
	8	4 x 6	7	7
	9	4 x 6	2	2
	10	4 x 6	1	1
TH-3	1	4 x 6	2	2
	2	4 x 6	2	2
	7	4 x 6	2	2
	8	4 x 6	6	6
	11	4 x 6	2	2
	12	4 x 6	1	1
	13	4 x 6	1	1
	14	4 x 6	1	1
TH-4	15	4 x 6	1	1

TRAFFIC HANDLING QUANTITIES
THQ-1

CALCULATED-DESIGNED BY: J~T
CHECKED BY: 10-15-15
REVISED BY: JOSEPH TRAN
DATE REVISED: LOANNA HUYNH
FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE
Caltrans

LAST REVISION | DATE PLOTTED => 17-DEC-2015
10-15-15 | TIME PLOTTED => 08:14

BORDER LAST REVISED 7/2/2010
USERNAME => s127956
DGN FILE => 1215000014mf001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 3064
PROJECT NUMBER & PHASE 12150000141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	9	38

Joseph Tran 12-10-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOSEPH TRAN No. C 59283 Exp. 6/30/17 CIVIL — STATE OF CALIFORNIA

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

NOTE:

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

PAVEMENT DELINEATION QUANTITIES (TEMPORARY)

LOCATION - DESCRIPTION					TEMPORARY TRAFFIC STRIPE (PAINT)																TEMPORARY PAVEMENT MARKING (PAINT)			
					4" SOLID WHITE	HOV 4" SOLID WHITE	HOV 4" SOLID YELLOW	DETAIL 22 4" SOLID YELLOW	DETAIL 25 4" SOLID YELLOW	DETAIL 25A 4" SOLID YELLOW	DETAIL 27B 4" SOLID WHITE	DETAIL 29 4" SOLID YELLOW	DETAIL 9 4" WHITE BROKEN (17-7)	DETAIL 13 (Mod) 4" WHITE BROKEN (36-12)	DETAIL 39 6" SOLID WHITE	DETAIL 39A 6" WHITE BROKEN (8-4)	8" SOLID WHITE	DETAIL 36 8" SOLID WHITE	DETAIL 38 8" SOLID WHITE	INGRESS/EGRESS 8" WHITE BROKEN (36-12)	DETAIL 37 8" WHITE BROKEN (12-3)	LIMIT LINE CROSS WALK	HOV DIAMOND SYMBOL & WORDS	WORDS (BICYCLE LANE)	ARROW
Loc	Rte	PM	BRIDGE NAME & No.	Dir	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	SQFT	SQFT
(1)	5	22.80	BARRANCA PARKWAY OC 55-0665								330	960	720		124	116			124			172	45	22	29
(2)	5	R23.58	IRVINE OH 55-0002	NB		264	1056		264		264			1056							264				
				SB		264	1056		264		264			1056							264				
(3)	5	R23.94	SAND CANYON AVENUE UC 55-0201	NB					220		220			1100				440		220			56		
				SB					220		220			880						220					
(4)	5	R27.25	PETER CANYON 55-0663	NB		92	368		92		92			368							92				
				SB		92	368		92		92			368							92				
(5)	5	27.50	ROUTE 5/261 SEPARATION 55-0736S (JAMBOREE OFF-RAMP)	NB						216	216														
(6)	5	27.53	ROUTE 5/261 SEPARATION 55-0688	NB					205		205			820						205			73		
				SB		205	820		205		410			820				205			205				
(7)	5	27.59	JAMBOREE ROAD UC 55-0656	NB		18	72		186		186			744						186	186				
				SB		186	744		186		186			744							186				
(8)	90	10.07	LAKEVIEW AVENUE OC 55-0345	NB								724	362		285	77									
(9)	91	R16.31	W91-S241 CONNECTOR 55-0794F							2173	2173			2173											
(10)	91	R17.95	COAL CANYON ROAD UC 55-0507L	WB		128	512		128		128			512							128				
(12)	241	10.12	LOS ALISOS BLVD OC 55-0700R		200							1400	700		720		270					72		63	60
(13)	241	28.70	HAUL ROAD UC 55-0895	NB					156		156			312											
				SB					156		156			156											
(14)	405	2.20	LAGUNA CANYON ROAD OC 55-0247					856																	
(15)	405	2.88	SAND CANYON AVENUE OC 55-0443					624			624		624												
SUBTOTAL					200	1249	4996	1480	2374	2389	5922	3084	2406	11109	1129	193	270	645	124	831	1417	244	174	85	89
TOTAL					39818																	592			

TRAFFIC HANDLING QUANTITIES (DETOUR QUANTITIES)

THQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE
Caltrans

FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
CALCULATED-DESIGNED BY: JOSEPH TRAN
CHECKED BY: LOANNA HUYNH
REVISED BY: J~T
DATE REVISED: 10-15-15

LAST REVISION 10-15-15
DATE PLOTTED => 17-DEC-2015
TIME PLOTTED => 08:14

BORDER LAST REVISED 7/2/2010
USERNAME => s127956
DGN FILE => 1215000014mf002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 3064
PROJECT NUMBER & PHASE 12150000141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	10	38

Joseph Tran 12-10-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOSEPH TRAN No. C59283 Exp. 6/30/17 CIVIL — STATE OF CALIFORNIA

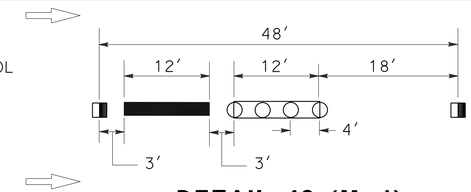
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

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

4" BLACK PAINT TRAFFIC STRIPE

4" WHITE THERMOPLASTIC TRAFFIC STRIPE



DETAIL 13 (Mod)

PAVEMENT DELINEATION QUANTITIES

Loc	Rte	PM	BRIDGE NAME & No.	Dir	PAINT TRAFFIC STRIPE (2 COAT) 4" BLACK LF	PAINT TRAFFIC STRIPE (2 COAT) DETAIL 13 (Mod) 4" BLACK BROKEN (36-12) LF	TRAFFIC STRIPE TAPE (WARRANTY) 4" SOLID WHITE LF	HOV 4" SOLID WHITE LF	HOV 4" SOLID YELLOW LF	DETAIL 22 4" SOLID YELLOW LF	DETAIL 25 4" SOLID YELLOW LF	DETAIL 25A 4" SOLID YELLOW LF	DETAIL 27B 4" SOLID WHITE LF	DETAIL 29 4" SOLID YELLOW LF	DETAIL 9 4" WHITE BROKEN (17-7) LF	DETAIL 13 (Mod) 4" WHITE BROKEN (36-12) LF	DETAIL 39 6" SOLID WHITE LF	DETAIL 39A 6" WHITE BROKEN (8-4) LF	8" SOLID WHITE LF	DETAIL 36 8" SOLID WHITE LF	DETAIL 38 8" SOLID WHITE LF	INGRESS/EGRESS 8" WHITE BROKEN (36-12) LF	DETAIL 37 8" WHITE BROKEN (12-3) LF	PAVEMENT MARKING TAPE (WARRANTY) LIMIT LINE CROSS WALK SQFT	HOV DIAMOND SYMBOL & WORDS SQFT	WORDS (BICYCLE LANE) SQFT	ARROW SQFT	PAVEMENT MARKER NON-REFLECTIVE TYPE A EA	RETRO-REFLECTIVE TYPE G EA	RETRO-REFLECTIVE TYPE H EA	RETRO-REFLECTIVE TYPE D EA	RETRO-REFLECTIVE TYPE C EA	CONCRETE BARRIER MARKER (*) EA	REMOVE THERMOPLASTIC TRAFFIC STRIPE LF	REMOVE PAINTED TRAFFIC STRIPE LF	REMOVE THERMOPLASTIC PAVEMENT MARKING SQFT	REMOVE PAVEMENT MARKER EA
(1)	5	22.80	BARRANCA PARKWAY OC 55-0665										330	960	720		124	116			124			172	45	22	29		20		80			1911		268	100
(2)	5	R23.58	IRVINE OH 55-0002	NB				264	1056		264		264			1056							264					88	40	50		24	6	2218			201
				SB				264	1056		264		264			1056							264					88	40	50		24	6	2218			201
(3)	5	R23.94	SAND CANYON AVENUE UC 55-0201	NB							220		220			1100				440		220			56			92	50	5			5	1705		56	147
				SB							220		220			880						220						73	28	5			5	770			105
(4)	5	R27.25	PETER CANYON 55-0663	NB				92	368		92		92			368							92					31	14	17			2	773			62
				SB				92	368		92		92			368							92					31	14	17			2	773			62
(5)	5	27.50	ROUTE 5/261 SEPARATION 55-0736S (JAMBOREE OFF-RAMP)	NB								216	216																9			5	432			9
(6)	5	27.53	ROUTE 5/261 SEPARATION 55-0688	NB							205		205			820						205			73			68	26	4			5	718		73	89
				SB				205	820		205		410			820				205			205					68	39	38		8	5	2337			154
(7)	5	27.59	JAMBOREE ROAD UC 55-0656	NB				18	72		186		186			744						186	186					62	35	7			4	806			104
				SB				186	744		186		186			744							186					62	28	35			4	1562			125
(8)	90	10.07	LAKEVIEW AVENUE OC 55-0345	NB	362									724	362		285	77										8		60			1140	362		68
(9)	91	R16.31	W91-S241 CONNECTOR 55-0794F									2173	2173			2173												181	45	91			44	4889			317
(10)	91	R17.95	COAL CANYON ROAD UC 55-0507L	WB		384		128	512		128		128			512							128					43	19	24			3	1075	384		86
(12)	241	10.12	LOS ALISOS BLVD OC 55-0700R				200							1400	700		720		270					72		63	60		15		117			3064		195	131
(13)	241	28.70	HAUL ROAD UC 55-0895	NB							156		156			312												26	7	3			4	390			36
				SB							156		156			156												13	3	3			4	351			20
(14)	405	2.20	LAGUNA CANYON ROAD OC 55-0247		428					856																				71			856	428		71
(15)	405	2.88	SAND CANYON AVENUE OC 55-0443		316					624			624		624														13		52			1430	312		65
SUBTOTAL					1106	384	200	1249	4996	1480	2374	2389	5922	3084	2406	11109	1129	193	270	645	124	813	1417	244	174	85	89	926	444	358	380	56	104	29418	1486	592	2153
TOTAL					1490		21694								2406	11109	1129	193	1039			831	1417	592				926	1238				104	29418	1486	592	2153

(*) MISSING CONCRETE BARRIER MARKER WHERE SPACING IS 48′.

PAVEMENT DELINEATION QUANTITIES
PDQ-1

CALCULATED-DESIGNED BY: J~T
CHECKED BY: 10-15-15
REVISED BY: JOSEPH TRAN
DATE REVISED: LOANNA HUYNH
FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

LAST REVISION: DATE PLOTTED => 17-DEC-2015
TIME PLOTTED => 08:14

BORDER LAST REVISED 7/2/2010 | USERNAME => s127956 | DGN FILE => 12150000014nc001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 3064 | PROJECT NUMBER & PHASE 12150000141

M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
℄,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED, REINFORCEMENT, REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	11	38

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Grace M. Tsushima — No. C49814 — Exp. 9-30-14 — CIVIL — STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 12-14-15

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 90, 91 241, 405	Var	12	38

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

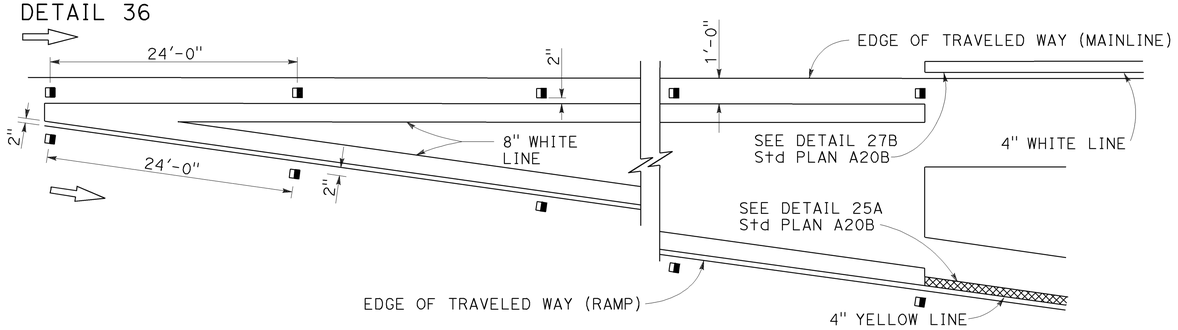
REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-15
CIVIL
STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 12-14-15

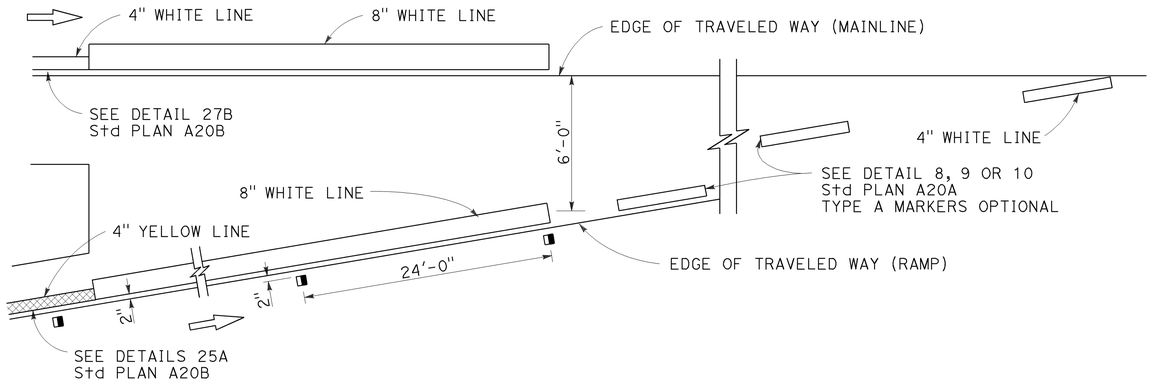
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



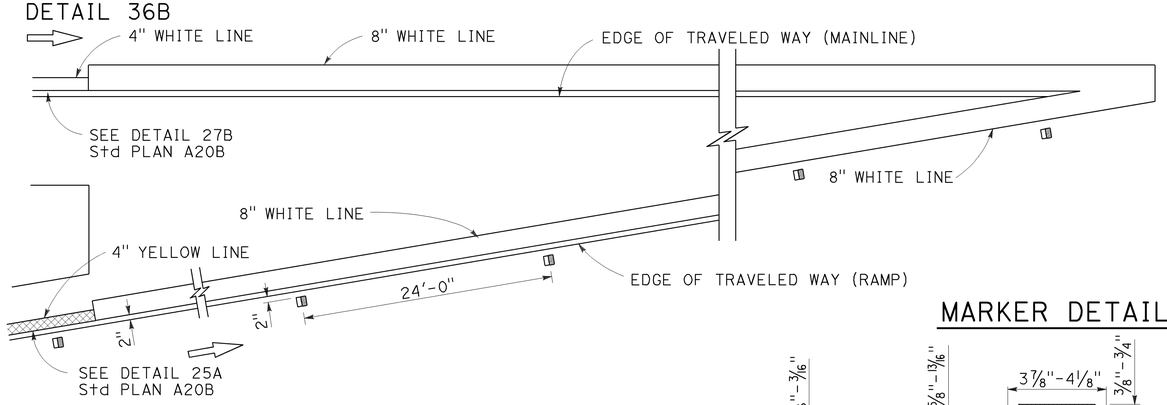
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A



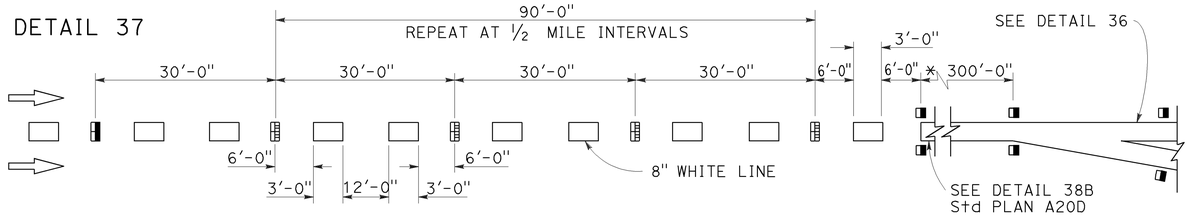
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B

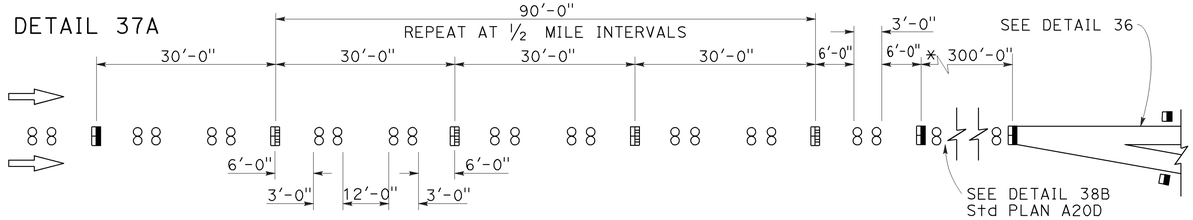


LANE DROP AT EXIT RAMPS

DETAIL 37



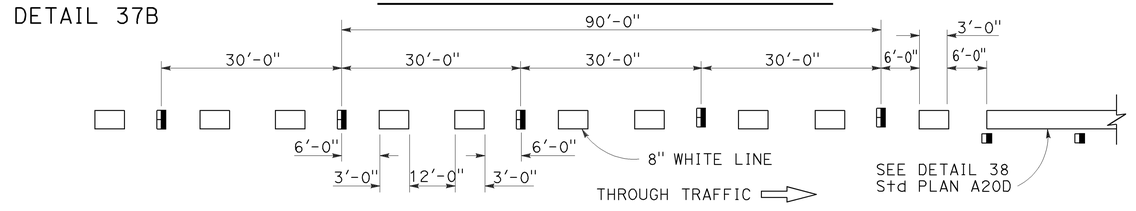
DETAIL 37A



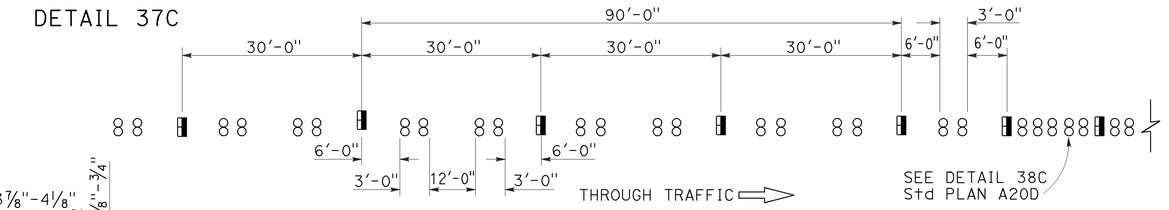
* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS

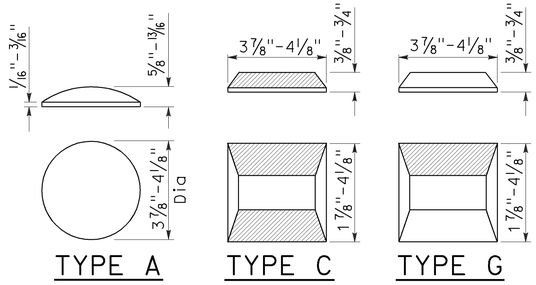
DETAIL 37B



DETAIL 37C



MARKER DETAILS



LEGEND:

MARKERS

- ○ TYPE A WHITE NON-REFLECTIVE
- ▣ TYPE C RED-CLEAR RETROREFLECTIVE
- ◨ TYPE G ONE-WAY CLEAR RETROREFLECTIVE

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

4-29-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	13	38

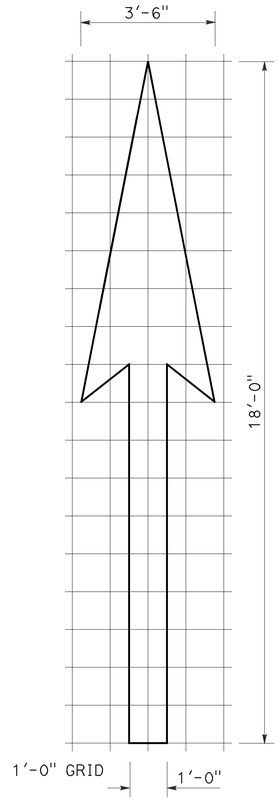
Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

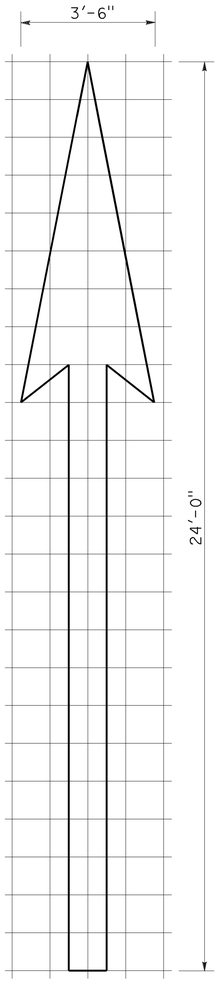
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 12-14-15



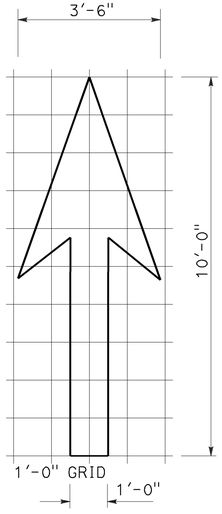
A=25 ft²

TYPE I 18'-0" ARROW



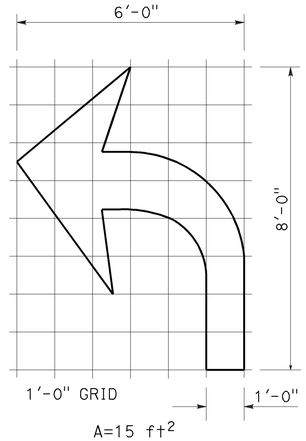
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

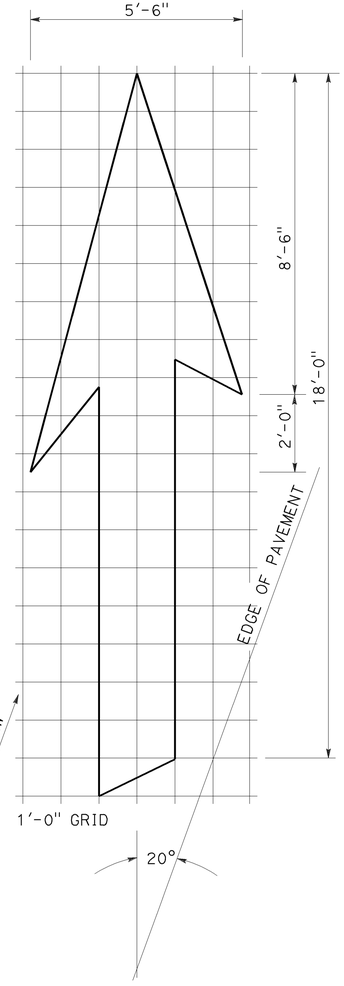
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

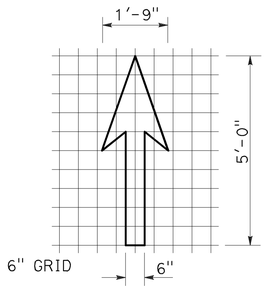
(For Type IV (R) arrow, use mirror image)



A=42 ft²

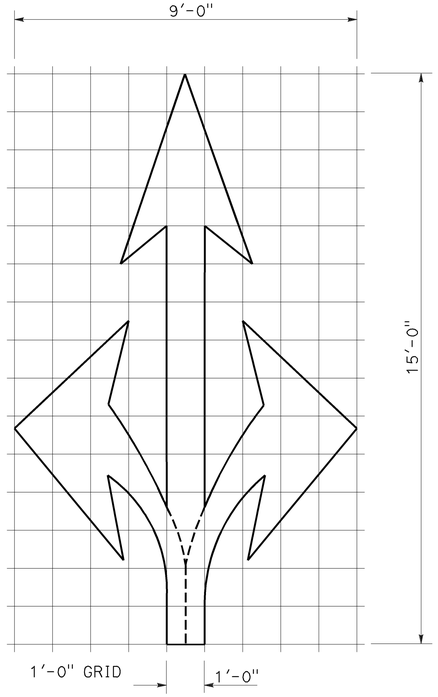
TYPE VI ARROW

Right lane drop arrow (For left lane, use mirror image)



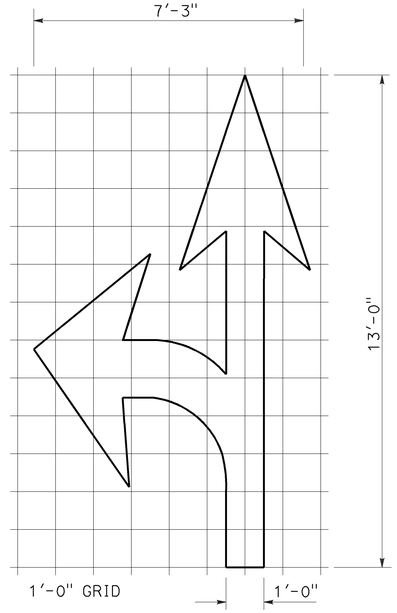
A=3.5 ft²

BIKE LANE ARROW



A=36 ft²

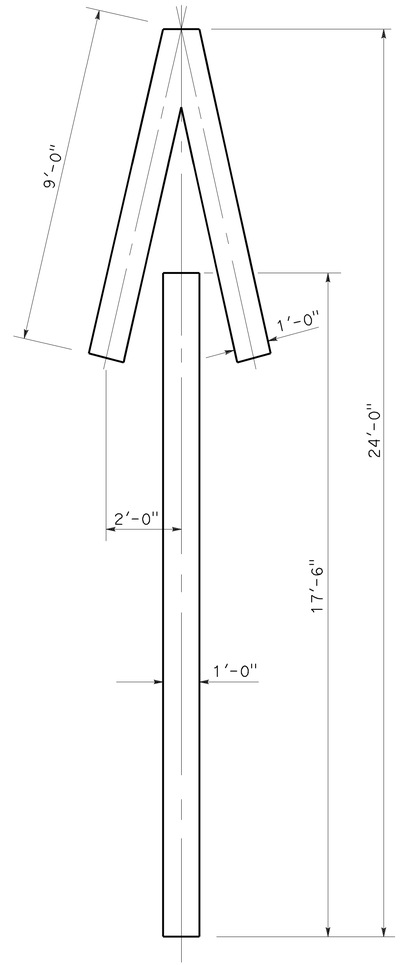
TYPE VIII ARROW



A=27 ft²

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft²

TYPE V ARROW

NOTE:
Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	14	38

REGISTERED CIVIL ENGINEER

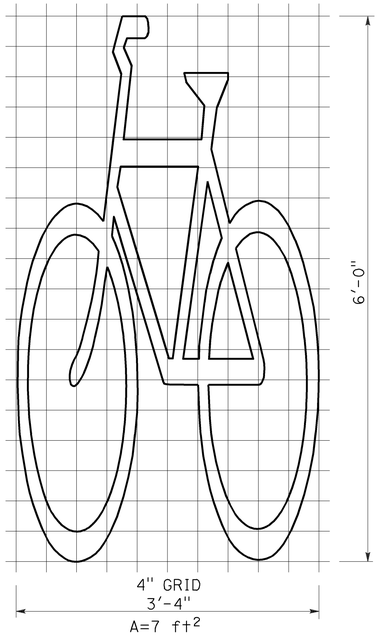
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

October 19, 2012
PLANS APPROVAL DATE

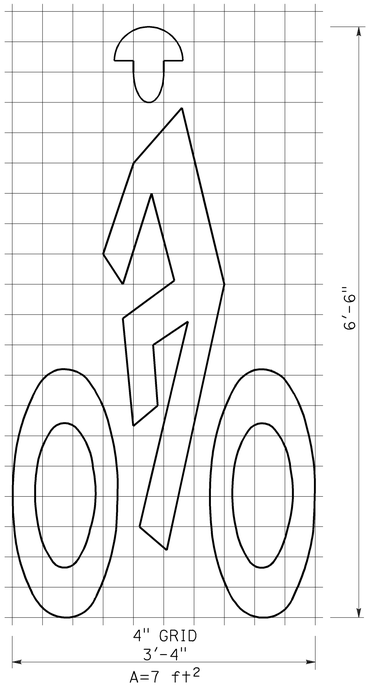
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE: TO ACCOMPANY PLANS DATED 12-14-15

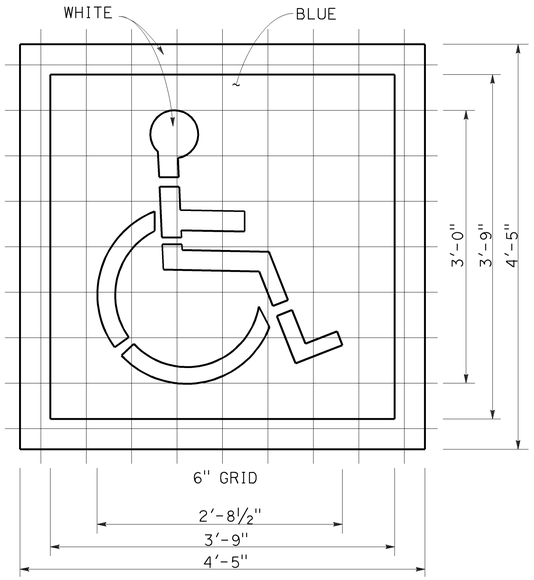
Minor variations in dimensions may be accepted by the Engineer.



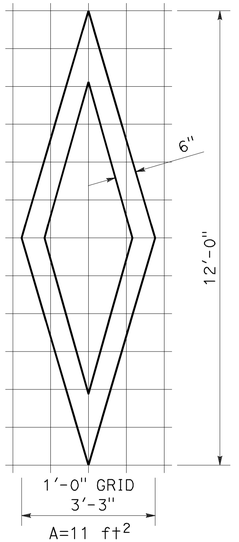
BIKE LANE SYMBOL WITHOUT PERSON



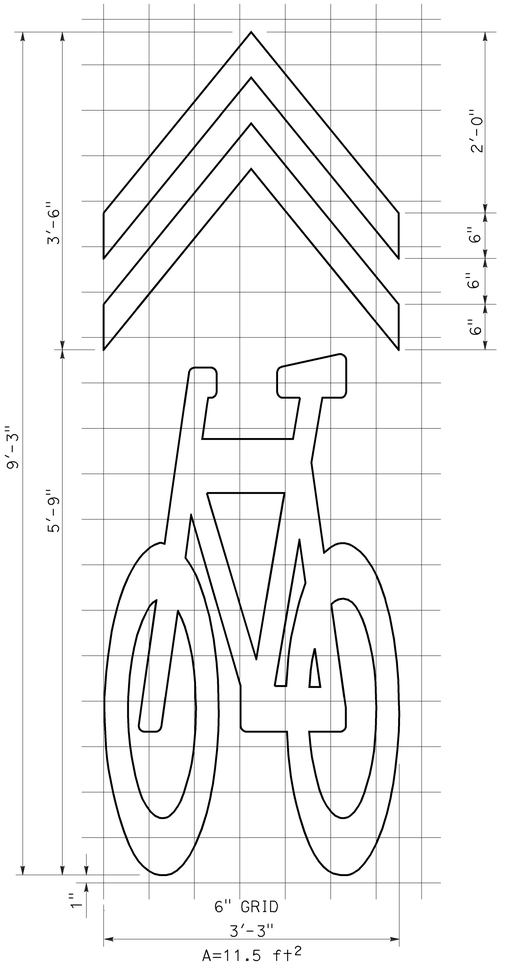
BIKE LANE SYMBOL WITH PERSON



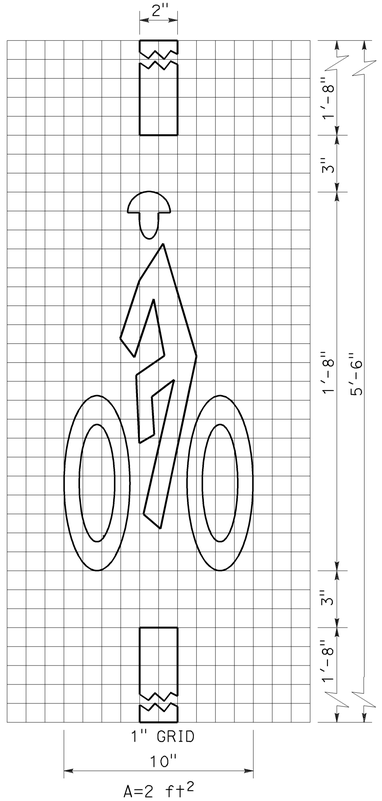
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



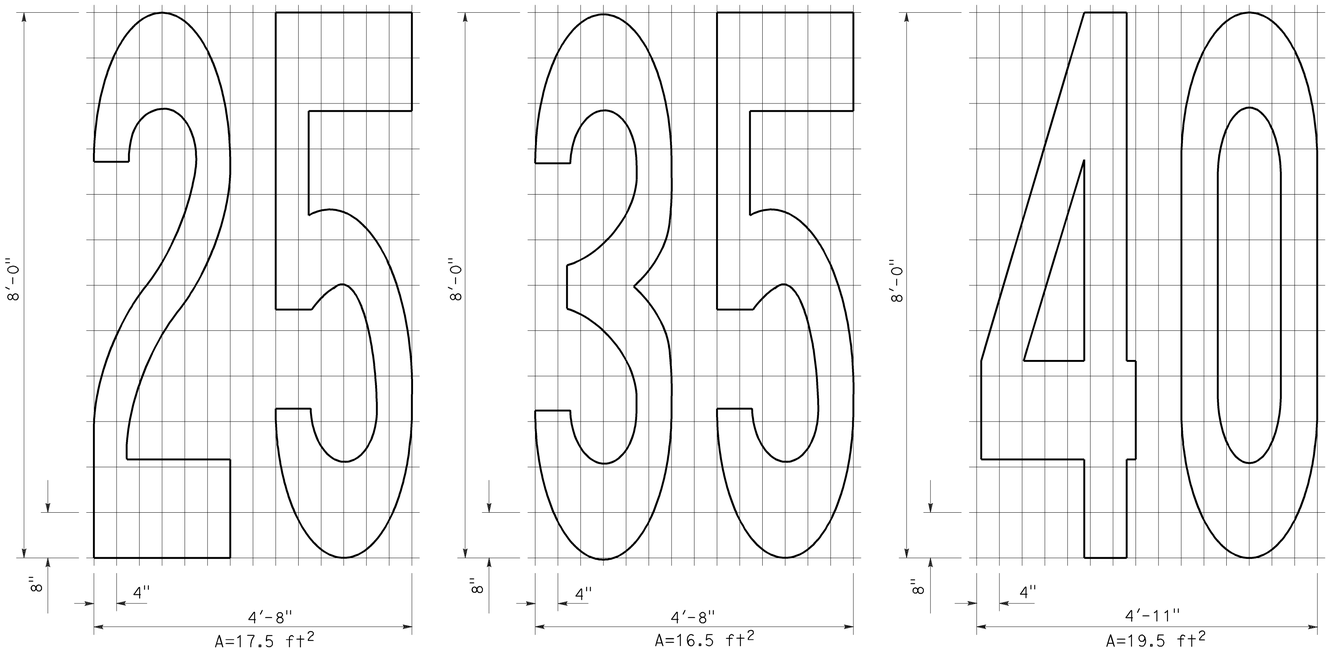
DIAMOND SYMBOL



SHARED ROADWAY BICYCLE MARKING



BICYCLE LOOP DETECTOR SYMBOL



NUMERALS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

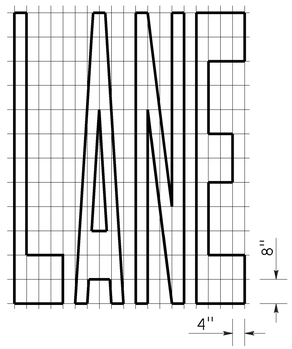
NO SCALE

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

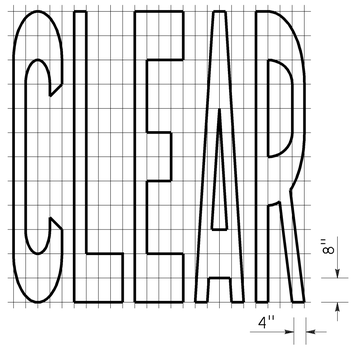
REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

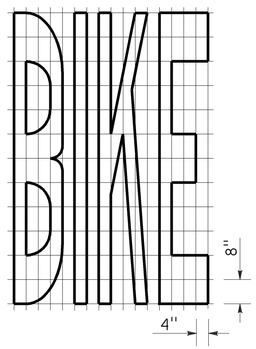
6-28-12



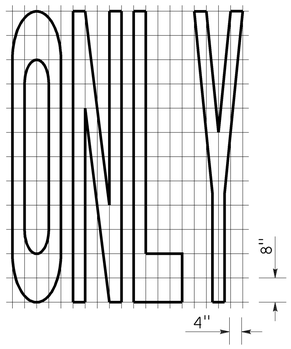
A=24 ft²



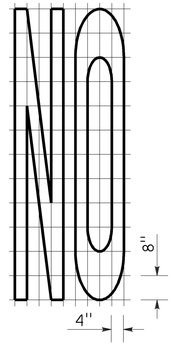
A=27 ft²



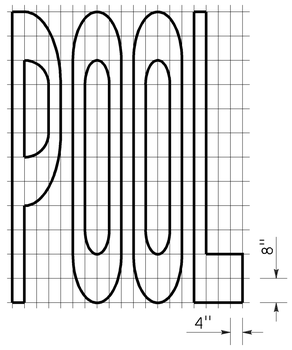
A=21 ft²



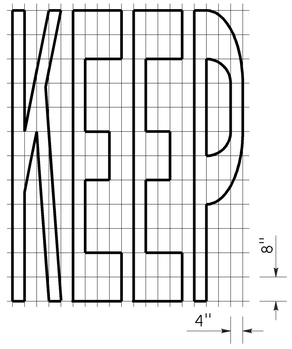
A=22 ft²



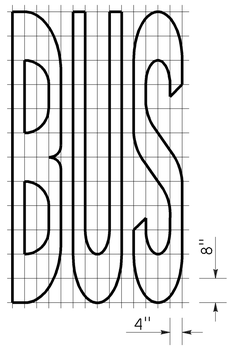
A=14 ft²



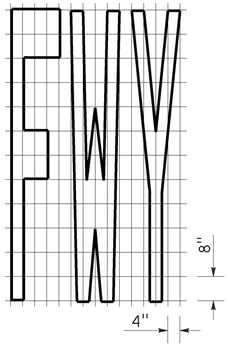
A=23 ft²



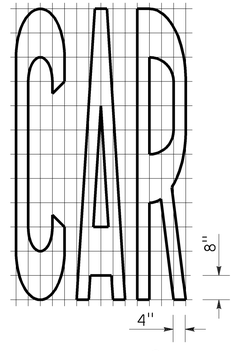
A=24 ft²



A=20 ft²



A=16 ft²



A=17 ft²

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	15	38

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

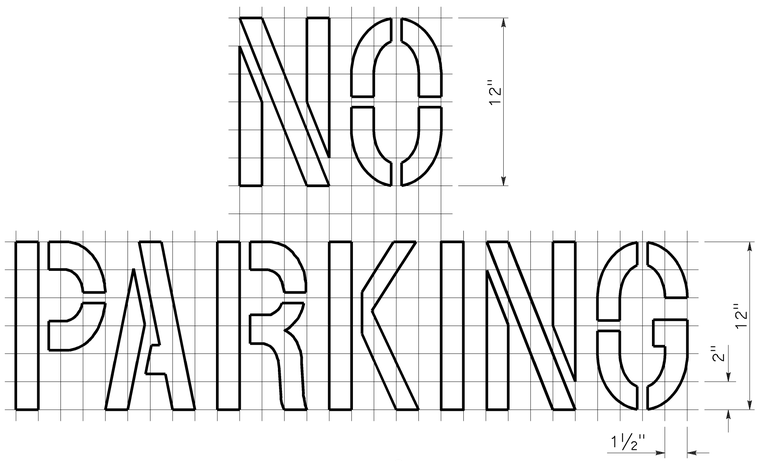
July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

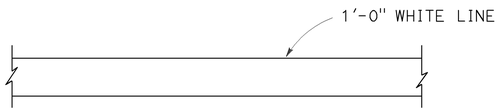
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 12-14-15

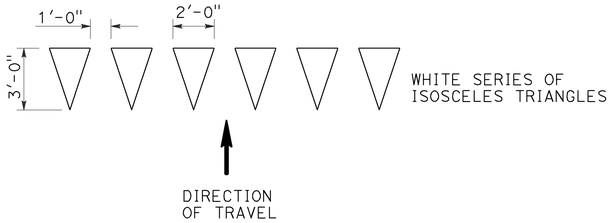
WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES

NO SCALE

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

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	16	38

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 12-14-15

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	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%
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

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

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

2010 REVISED STANDARD PLAN RSP T9

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

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

REVISED STANDARD PLAN RSP T9

4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	17	38

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 12-14-15

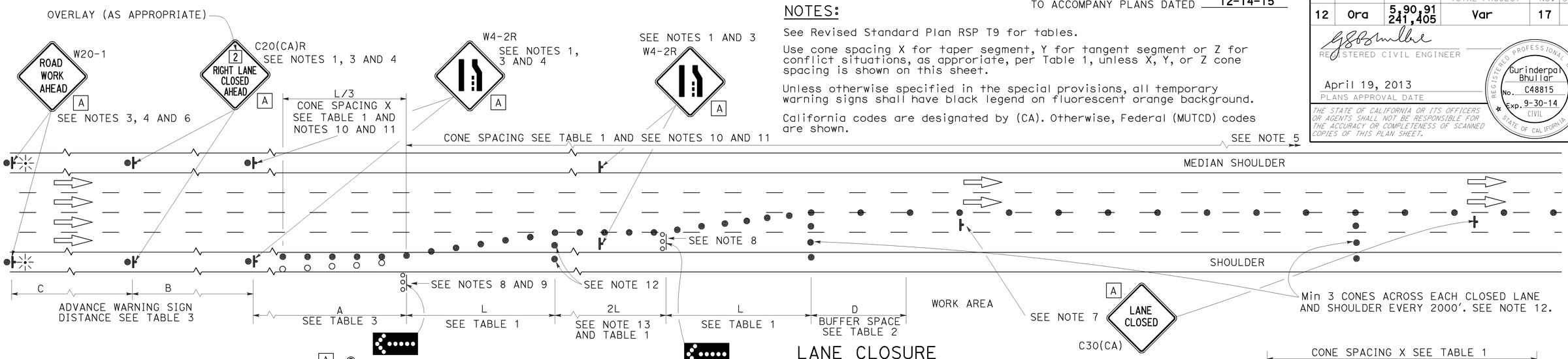
NOTES:

See Revised Standard Plan RSP T9 for tables.

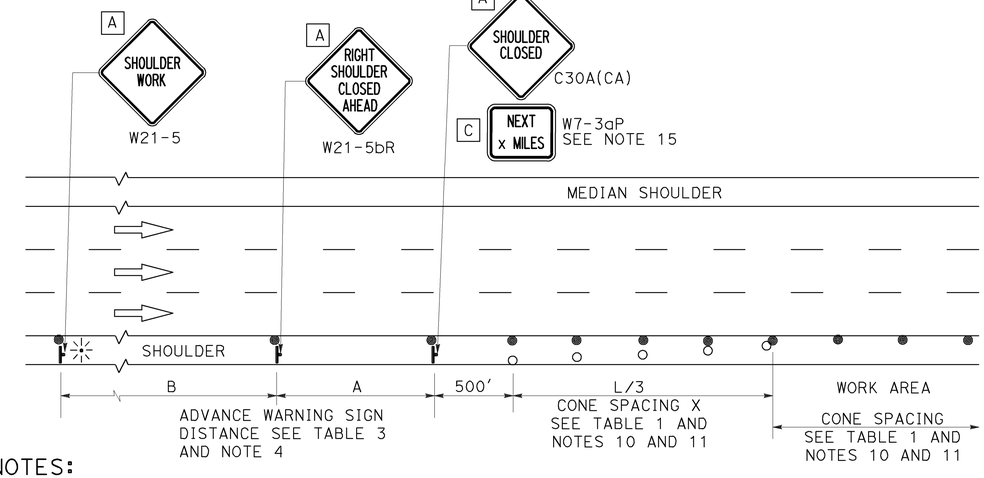
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

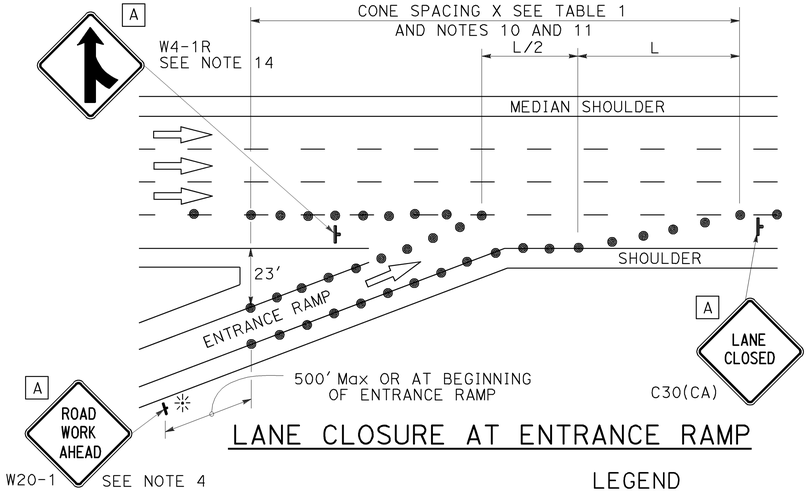
Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

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

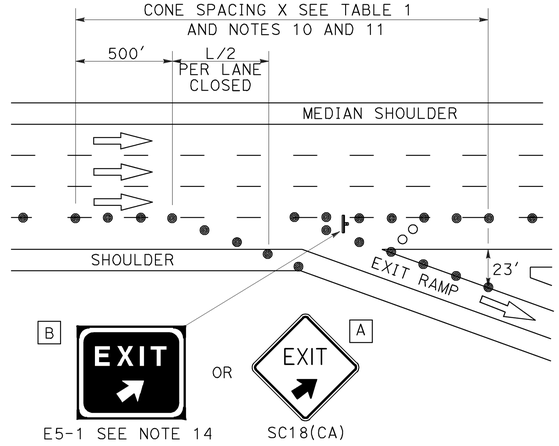


LANE CLOSURE





LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

SHOULDER CLOSURE

6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
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 theshoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	18	38

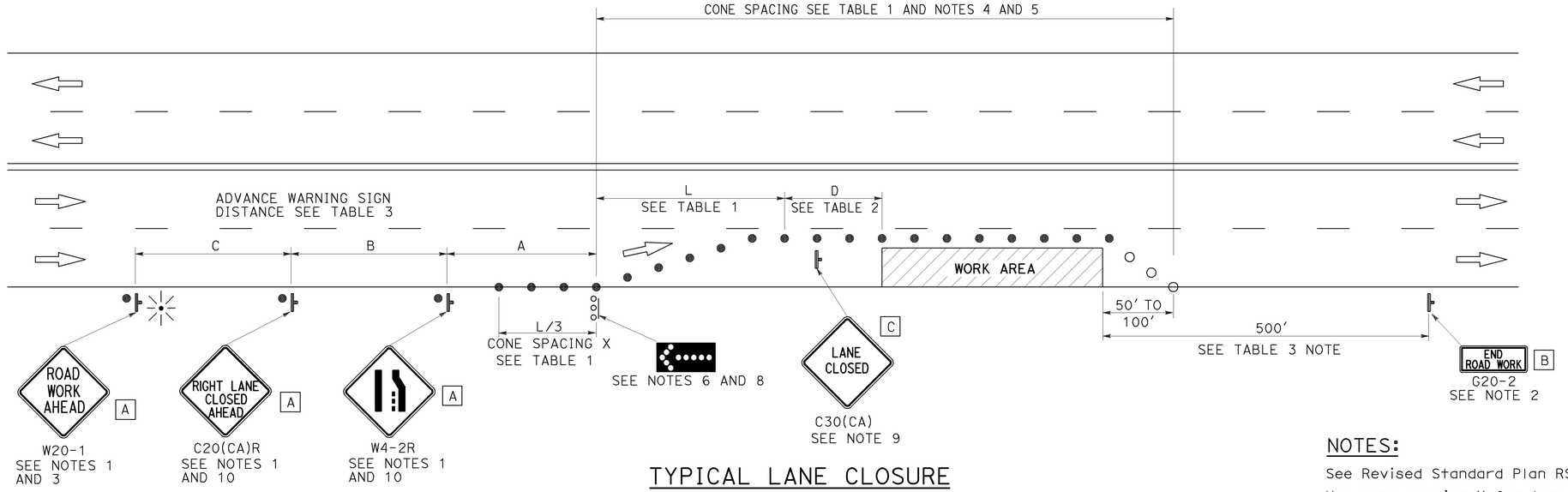
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 12-14-15



TYPICAL LANE CLOSURE

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 approriate, 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.

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" × 48"
- B 36" × 18"
- C 30" × 30"

NOTES:

1. Each advance warning 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. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "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.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
8. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
9. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

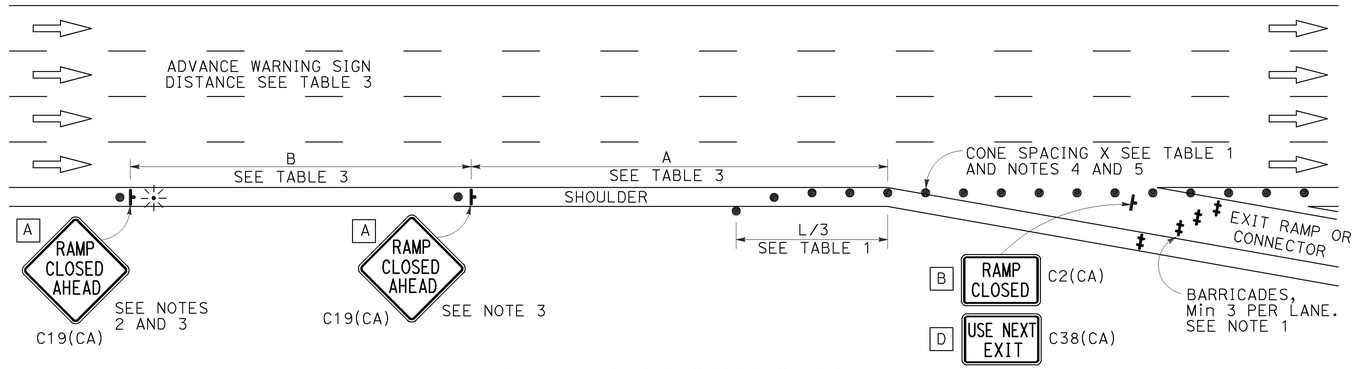
RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

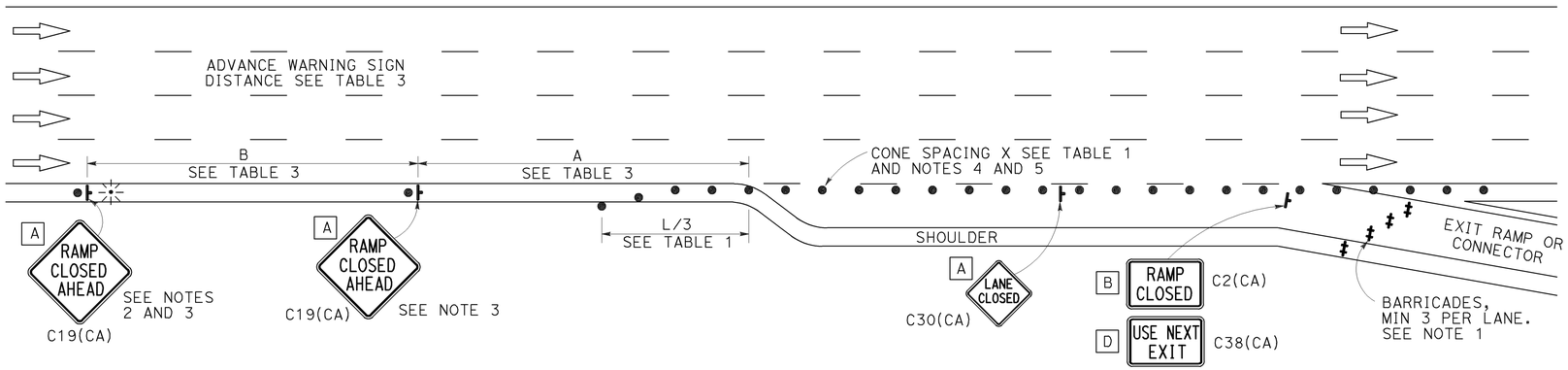
2010 REVISED STANDARD PLAN RSP T11

4-2-13

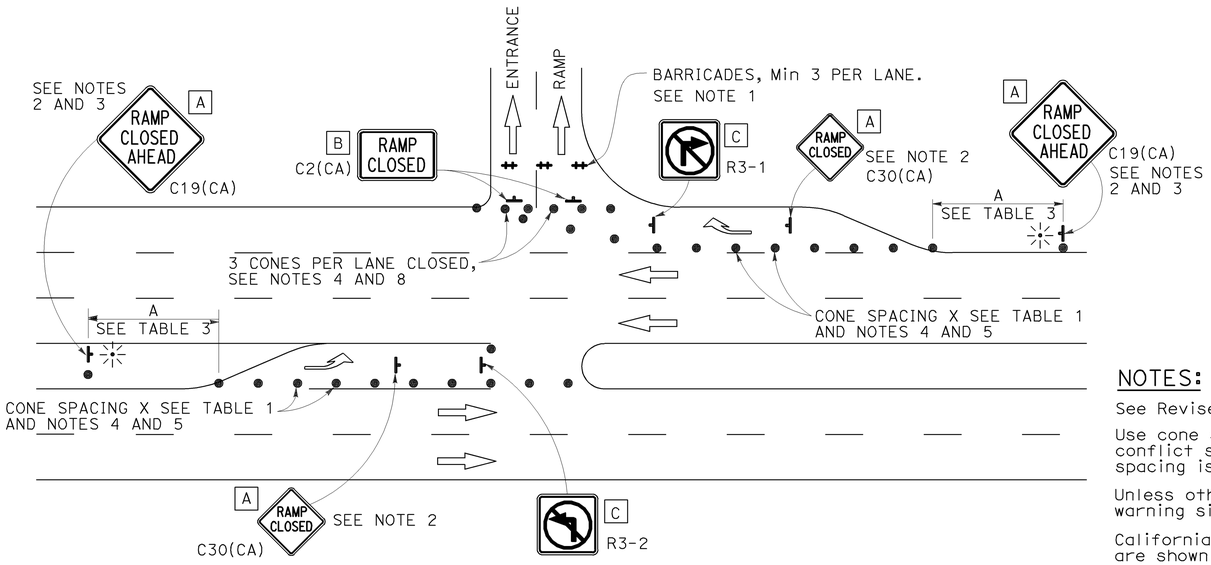
TYPICAL RAMP CLOSURES



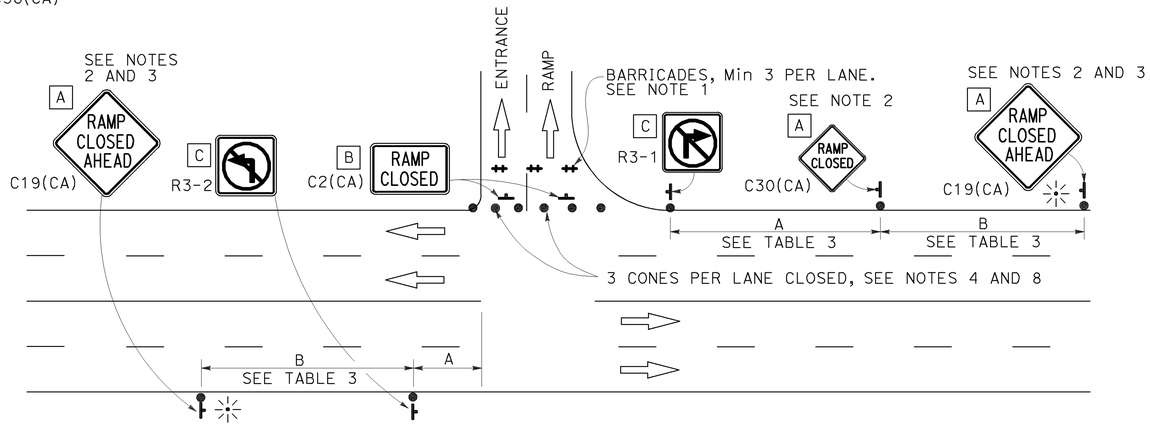
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

SIGN PANEL SIZE (Min)

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

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- BARRICADES
- PORTABLE FLASHING BEACON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,90,91 241,405	Var	19	38

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 12-14-15

NOTES:

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

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 approriate, 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

12-18-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	20	38

09-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

MAZIN S. IBRAHIM No. C69896 Exp. 09/30/16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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	GENERAL PLAN NO. 15
16	MISCELLANEOUS DETAILS NO. 1
17	MISCELLANEOUS DETAILS NO. 2
18	JOINT SEAL ASSEMBLY DETAILS
19	TEMPORARY STEEL DECKING

STANDARD PLANS DATED 2010

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

STANDARD PLAN SHEET NO.

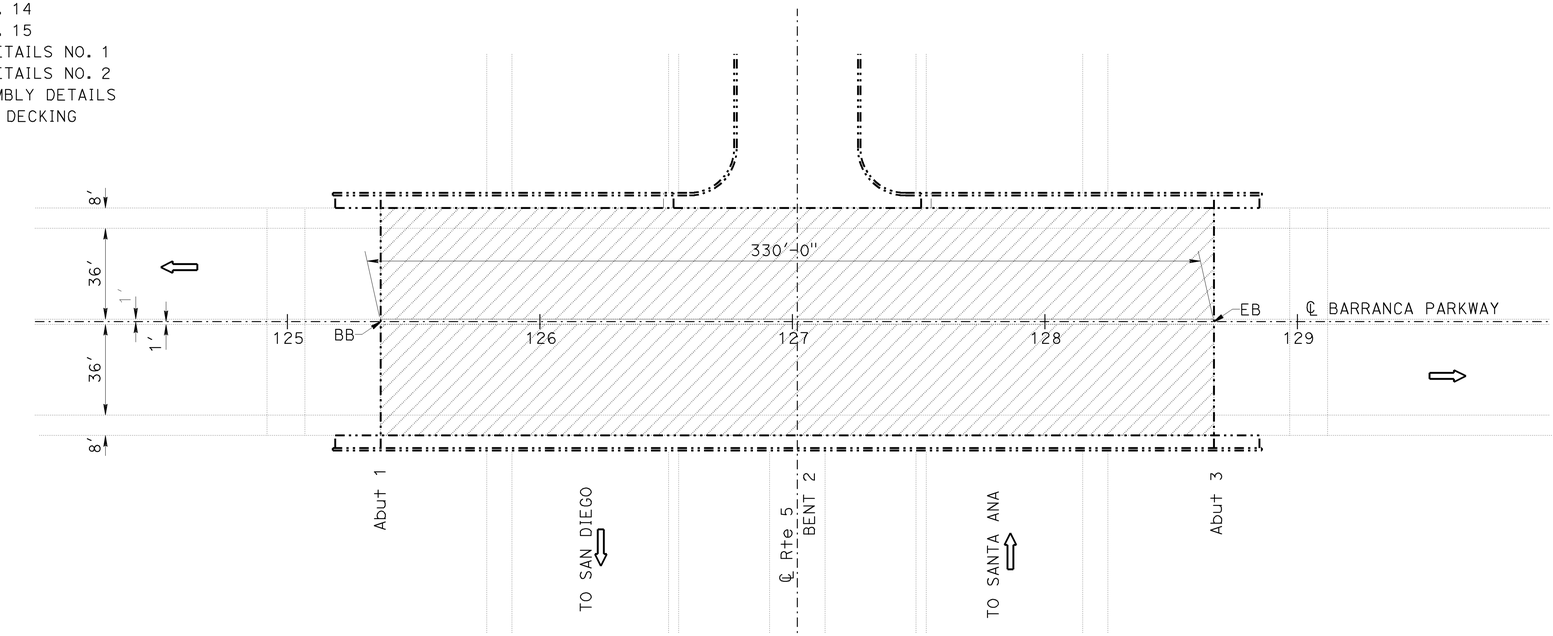
DETAIL NO.

LEGEND:

Indicates existing.

Indicates direction of traffic.

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



BARRANCA PARKWAY OC

Br No. 55-0665, Rte 5, PM 22.80
1"=30'

BARRANCA PARKWAY OC #55-0665

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	23,760 SQFT
TREAT BRIDGE DECK	23,760 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	340 GAL

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Vaikunthan Renga	PLANS AND SPECS COMPARED Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	01	19

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:45

FILE => 12-0n9601-g-gp01.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, ,241,405	Var	21	38

09-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MAZIN S. IBRAHIM
No. C69896
Exp. 09/30/16
CIVIL
STATE OF CALIFORNIA

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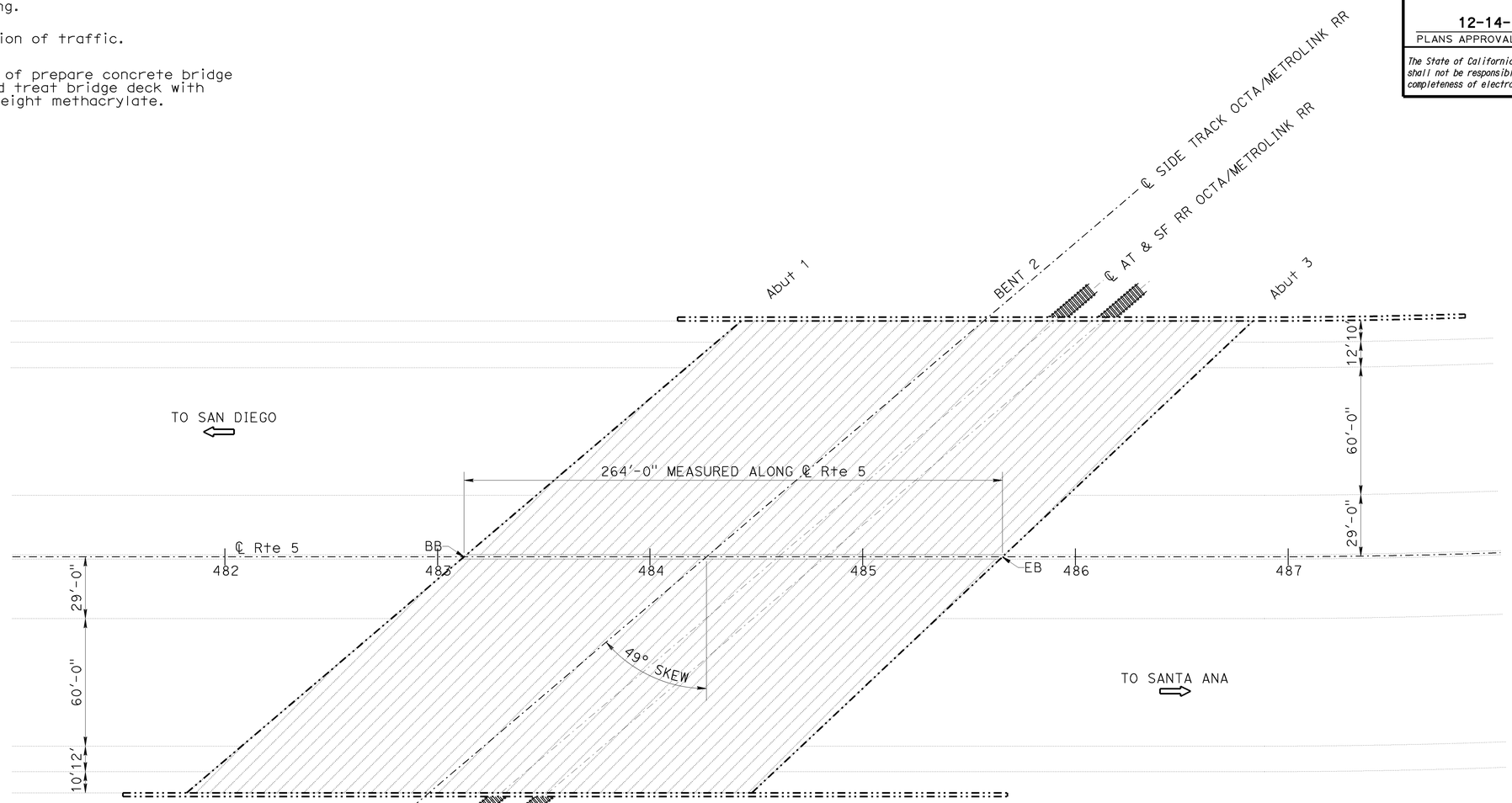
LEGEND:

Indicates existing.

Indicates direction of traffic.

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



IRVINE OH

Br No. 55-0002, Rte 5, PM R23.58
Scale 1"=30'

IRVINE OH #55-0002

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	58,600 SQFT
TREAT BRIDGE DECK	58,600 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	837 GAL

NOTE: SB bridge drains to be protected during the treatment activities.

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Vaikunthan Renga	PLANS AND SPECS COMPARED Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 2

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	02	19

FILE => 12-0n9601-a-gp02.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, ,241,405	Var	22	38

REGISTERED CIVIL ENGINEER — DATE 09-17-15

12-14-15
PLANS APPROVAL DATE

MAZIN S. IBRAHIM — REGISTERED PROFESSIONAL ENGINEER — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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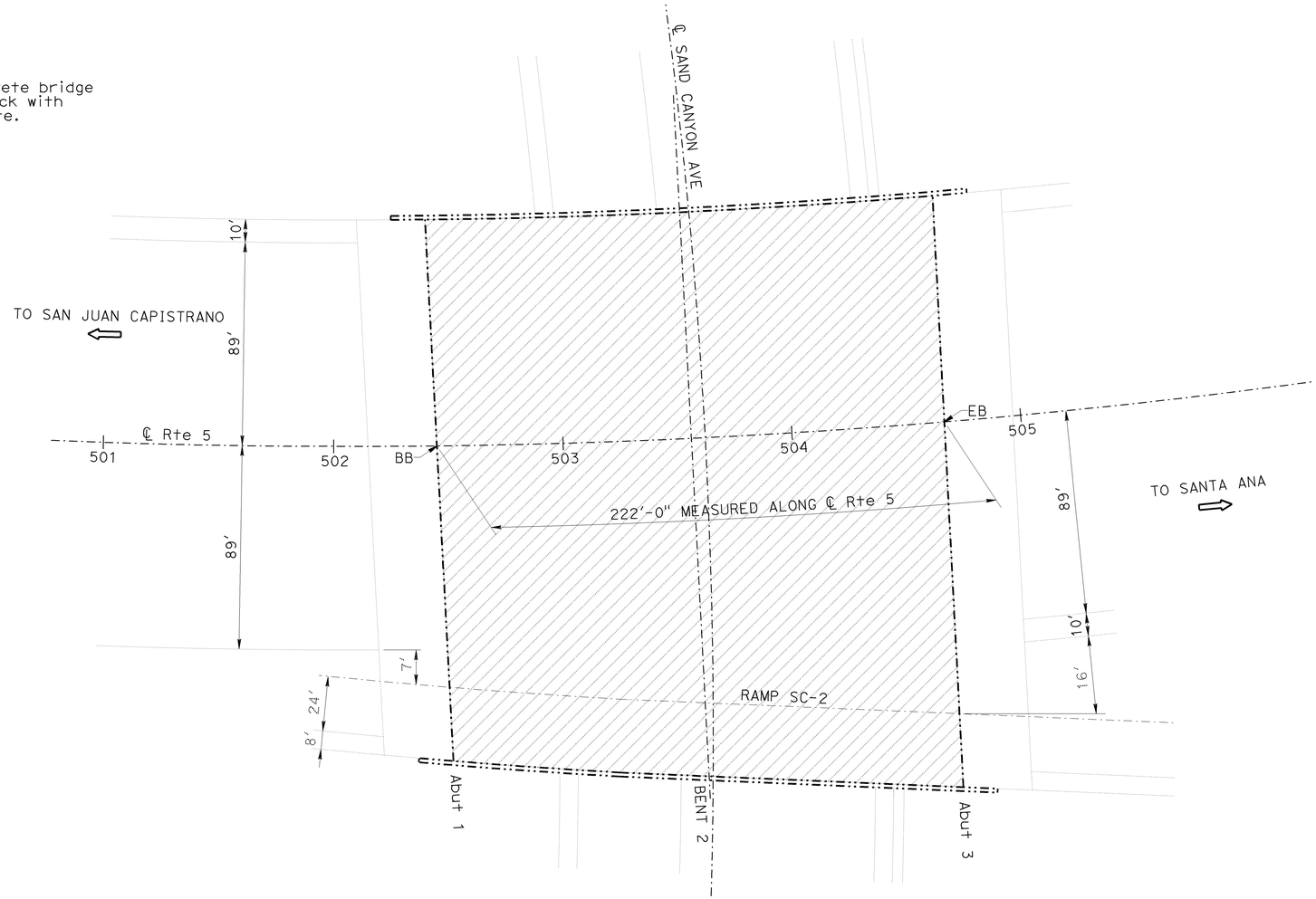
LEGEND:

Indicates existing.

Indicates direction of traffic.

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



SAND CANYON AVENUE UC

Br No. 55-0201, Rte 5, PM R23.94
Scale 1"=30'

SAND CANYON AVENUE UC #55-0201

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	52,500 SQFT
TREAT BRIDGE DECK	52,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	750 GAL

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Vaikunthan Renga	PLANS AND SPECS COMPARED: Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 3

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	03	19

FILE => 12-0n9601-a-gp03.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	23	38

REGISTERED CIVIL ENGINEER — DATE 09-17-15

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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LEGEND:

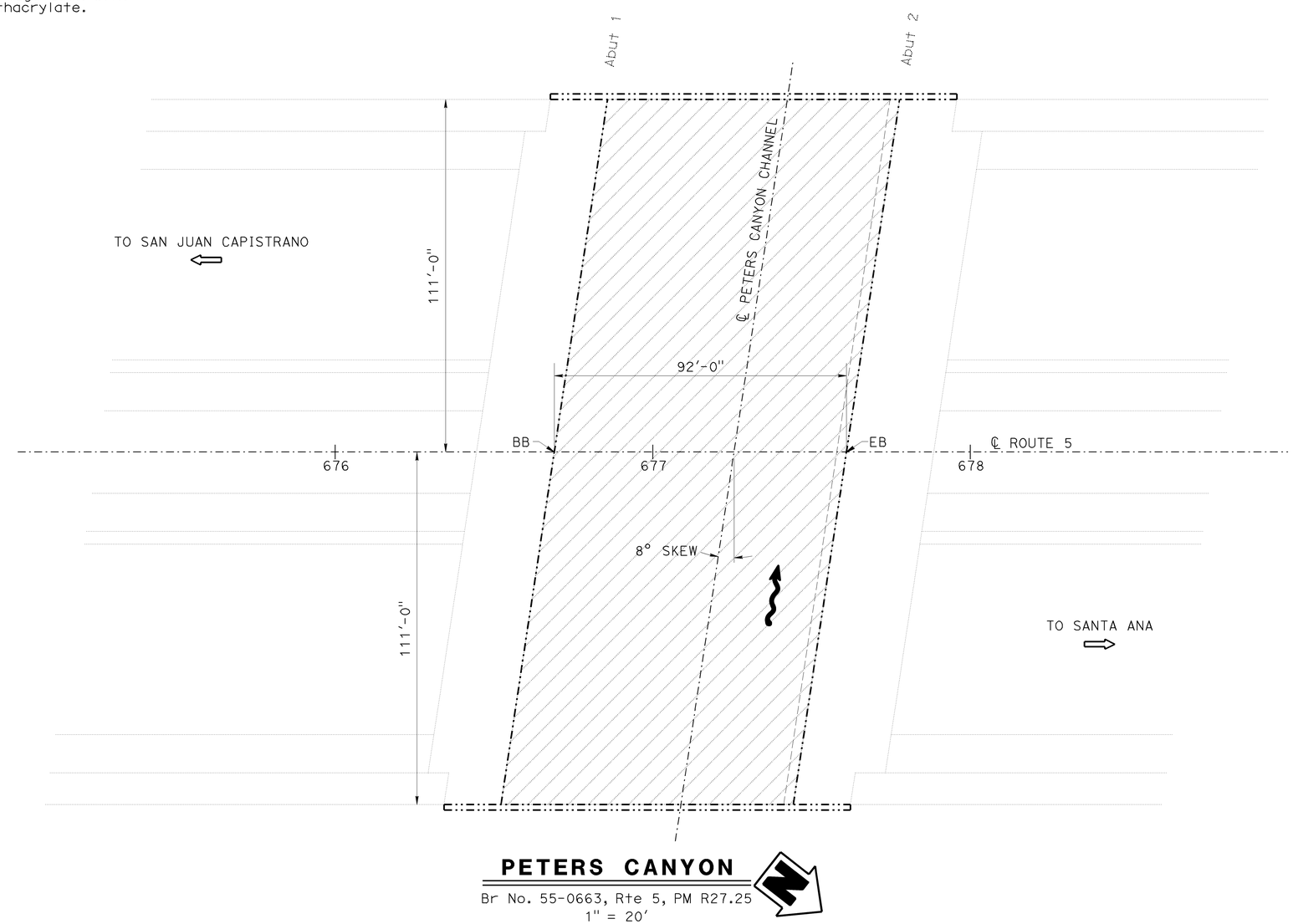
Indicates existing.

Indicates direction of traffic.

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

PETERS CANYON #55-0663
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	20,430 SQFT
TREAT BRIDGE DECK	20,430 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	290 GAL



PETERS CANYON

Br No. 55-0663, Rte 5, PM R27.25
1" = 20'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Mazin Ibrahim	Hong Tien Tran			
DETAILS	Clayton Tom	Mazin Ibrahim	LAYOUT	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran	SPECIFICATIONS	Vaikunthan Renga	Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 4

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	04	19

FILE => 12-0n9601-a-gp04.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	24	38

09-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

MAZIN S. IBRAHIM
REGISTERED PROFESSIONAL ENGINEER
No. C69896
Exp. 09/30/16
CIVIL
STATE OF CALIFORNIA

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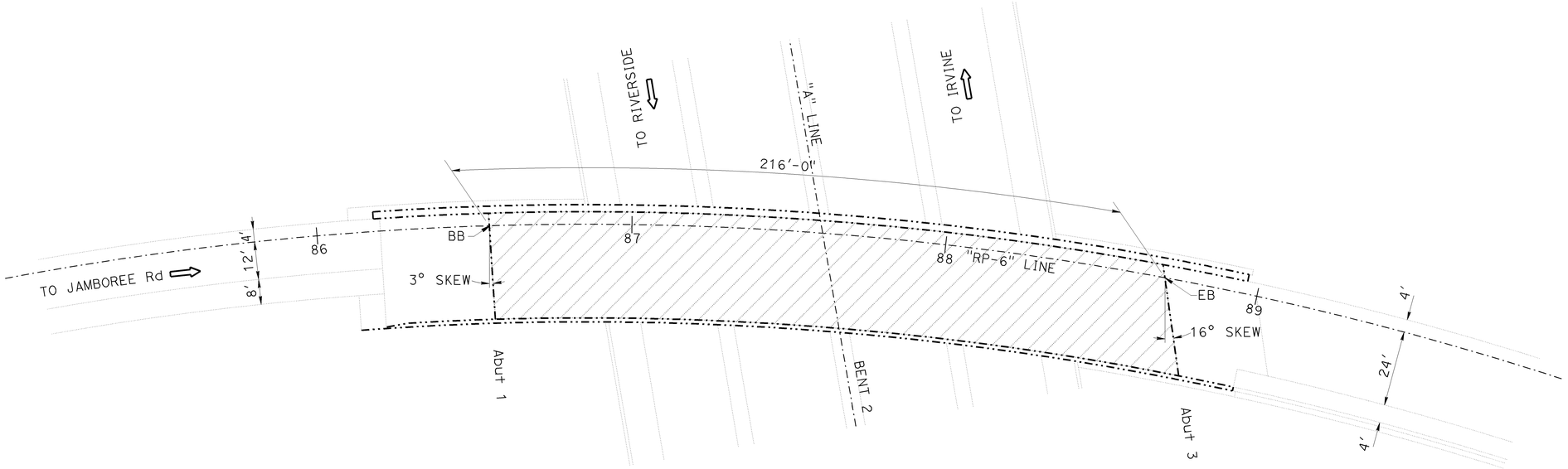
LEGEND:

Indicates existing.

Indicates direction of traffic.

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



ROUTE 5/261 SEPARATION

Br No. 55-0763S, Rte 5, PM 27.50
1" = 20'

ROUTE 5/261 SEPARATION #55-0763S
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	6,900 SQFT
TREAT BRIDGE DECK	6,900 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	99 GAL

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Vaikunthan Renga	PLANS AND SPECS COMPARED: Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 5

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
~~04-16-15~~	06-16-15	09-16-15	09-17-15	05	19

FILE => 12-0n9601-a-gp05.dgn

USERNAME = s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, ,241,405	Var	25	38

09-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MAZIN S. IBRAHIM
No. C69896
Exp. 09/30/16
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

Indicates existing.

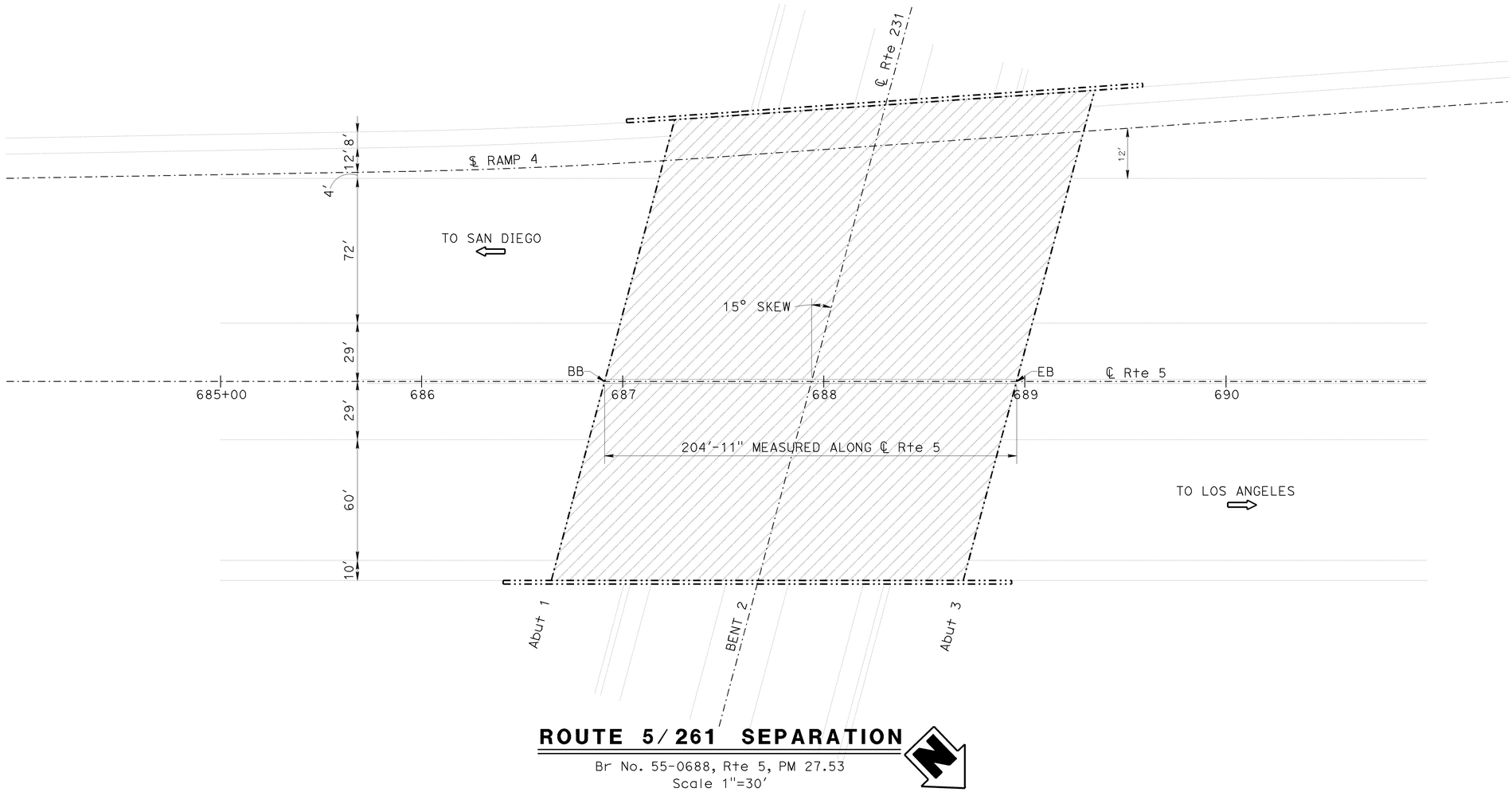
Indicates direction of traffic.

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

ROUTE 5/261 SEPARATION #55-0688

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	46,750 SQFT
TREAT BRIDGE DECK	46,750 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	668 GAL



ROUTE 5/261 SEPARATION

Br No. 55-0688, Rte 5, PM 27.53
Scale 1"=30'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom	CHECKED Mazin Ibrahim	
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Vaikunthan Renga	PLANS AND SPECS COMPARED Vaikunthan Renga	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 6

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	06	19

FILE => 12-0n9601-a-gp06.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	26	38

09-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MAZIN S. IBRAHIM
No. C69896
Exp. 09/30/16
CIVIL
STATE OF CALIFORNIA

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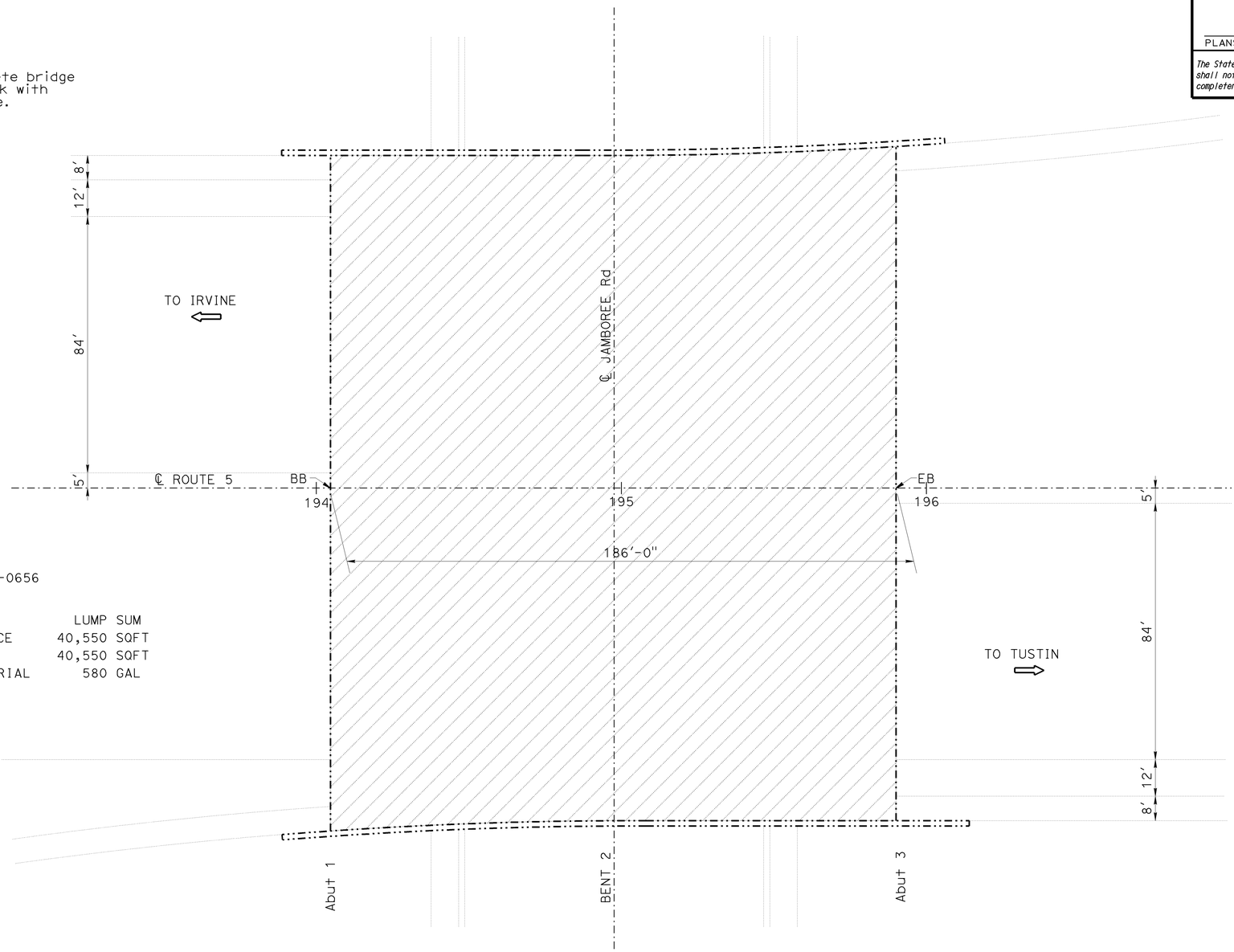
LEGEND:

Indicates existing.

Indicates direction of traffic.

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



JAMBOREE ROAD UC #55-0656
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	40,550 SQFT
TREAT BRIDGE DECK	40,550 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	580 GAL

JAMBOREE ROAD UC

Br No. 55-0656, Rte 5, PM 27.59
1" = 20'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Vaikunthan Renga	PLANS AND SPECS COMPARED: Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 7

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	07	19

FILE => 12-0n9601-a-gp07.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	27	38

REGISTERED CIVIL ENGINEER — DATE 09-17-15

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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LEGEND:

Indicates existing.

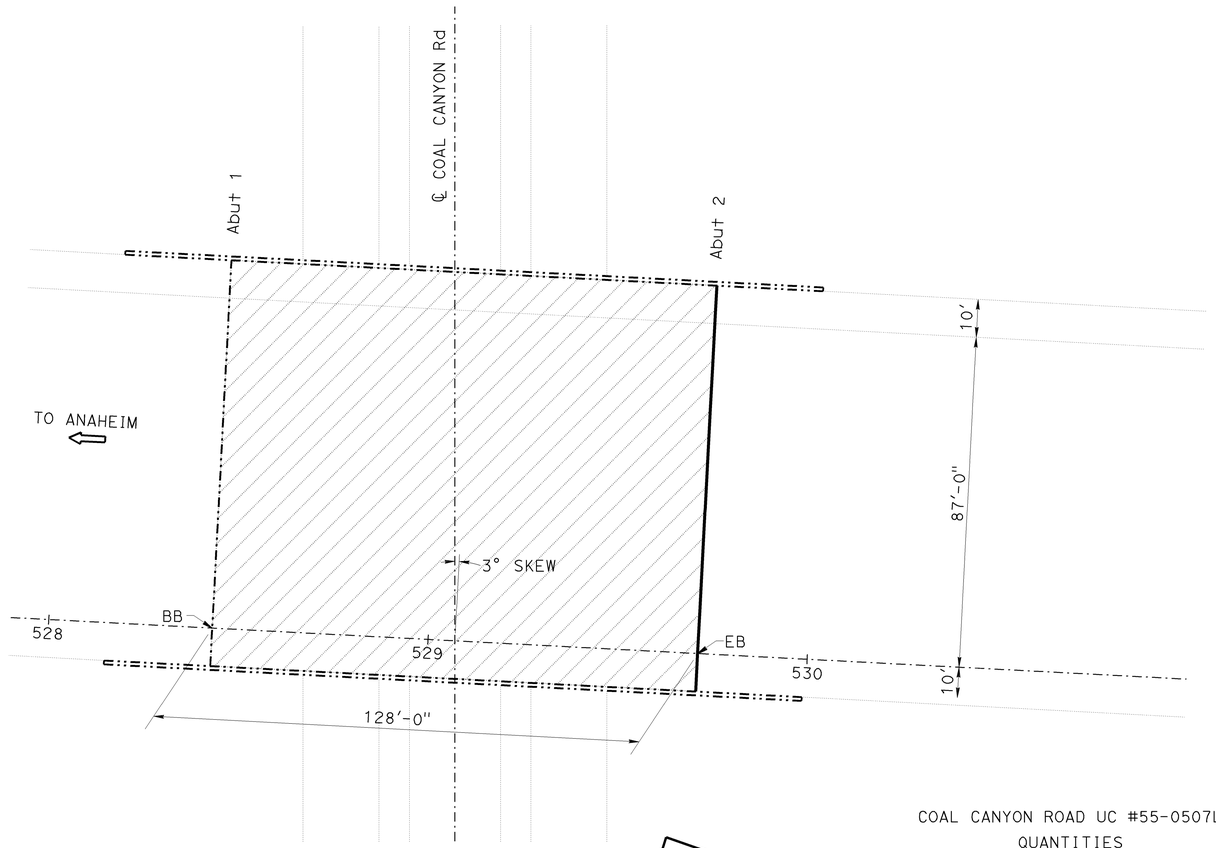
Indicates direction of traffic.

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

Indicates location of clean expansion joint and placement of new joint seal.

NOTE:

1. For clean expansion joint and joint seals details, see "MISCELLANEOUS DETAILS NO. 1" sheet.



COAL CANYON ROAD UC

Br No. 55-0507L, Rte 91, PM R17.95
1" = 20'

COAL CANYON ROAD UC #55-0507L
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	13,700 SQFT
TREAT BRIDGE DECK	13,700 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	196 GAL
CLEAN EXPANSION JOINT	107 LF
JOINT SEAL (MR ½")	107 LF

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom	CHECKED Mazin Ibrahim	
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Vaikunthan Renga	PLANS AND SPECS COMPARED Vaikunthan Renga	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 8

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	08	19

FILE => 12-0n9601-a-gp08.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	28	38

09-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

MAZIN S. IBRAHIM
REGISTERED PROFESSIONAL ENGINEER
No. C69896
Exp. 09/30/16
CIVIL
STATE OF CALIFORNIA

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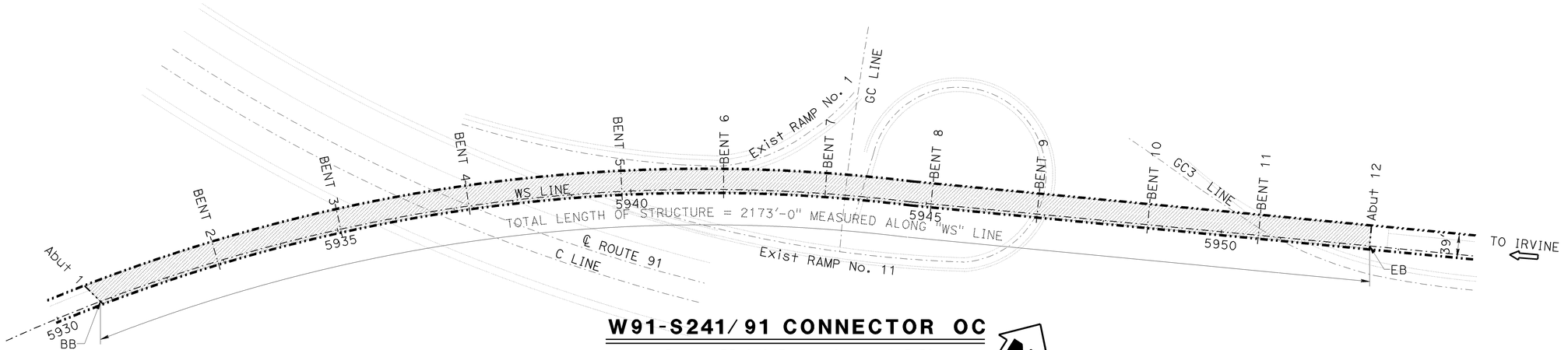
LEGEND:

Indicates existing.

Indicates direction of traffic.

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



W91-S241/91 CONNECTOR OC

Br No. 55-0794F, Rte 91, PM R15.50
Scale 1"=100'

W91-S241/91 CONNECTOR OC #55-0794F
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	84,750 SQFT
TREAT BRIDGE DECK	84,750 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,211 GAL

NOTE: Bridge drains to be protected during the treatment activities.

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Vaikunthan Renga	PLANS AND SPECS COMPARED Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 9

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	09	19

FILE => 12-0n9601-a-gp09.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	29	38

09-17-15
REGISTERED CIVIL ENGINEER — DATE

12-14-15
PLANS APPROVAL DATE

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MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

LEGEND:

Indicates existing.

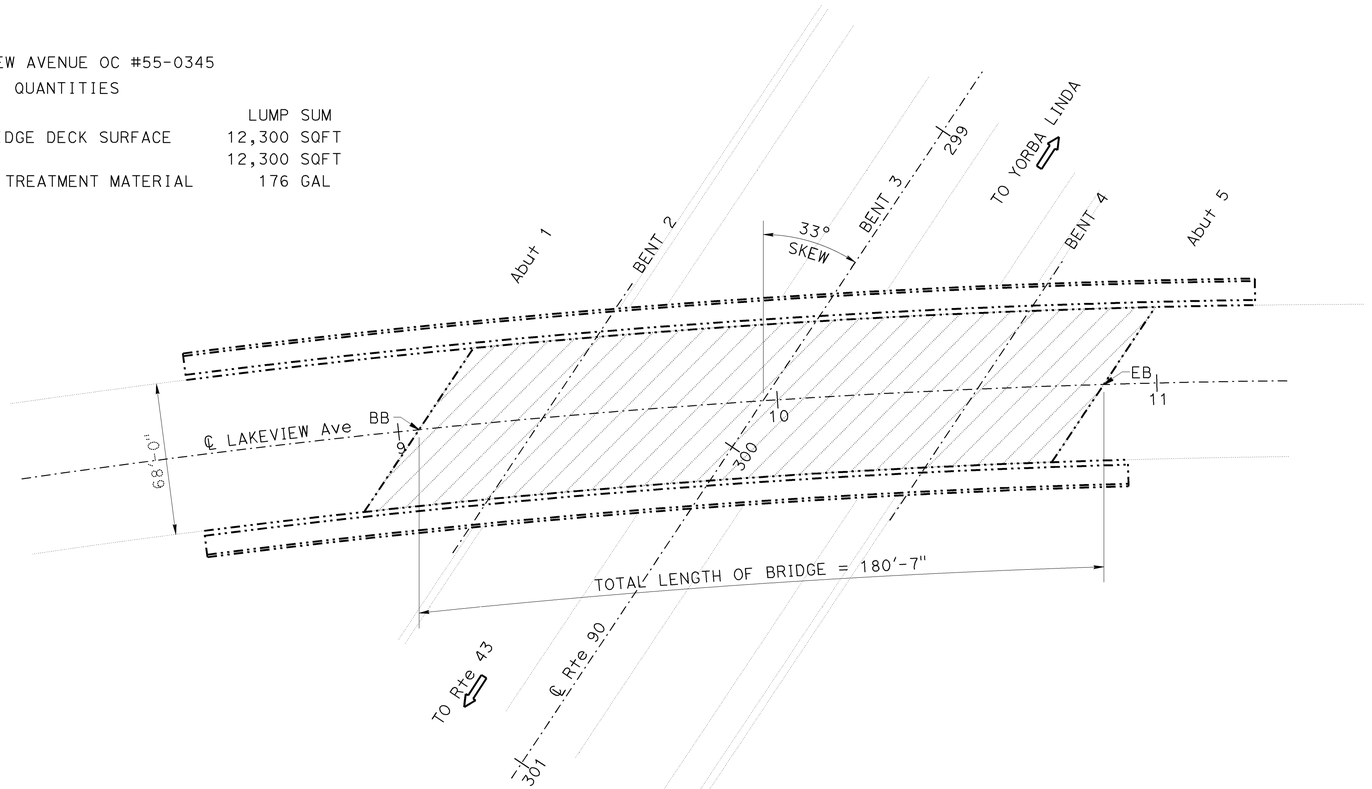
Indicates direction of traffic.

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

LAKEVIEW AVENUE OC #55-0345

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	12,300 SQFT
TREAT BRIDGE DECK	12,300 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	176 GAL



LAKEVIEW AVENUE OC

Br No. 55-0345, Rte 90, PM 8.08
1" = 20'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom	CHECKED Mazin Ibrahim	
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Vaikunthan Renga	PLANS AND SPECS COMPARED Vaikunthan Renga	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 10

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	10	19

FILE => 12-0n9601-a-gp10.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	30	38

REGISTERED CIVIL ENGINEER — DATE 09-17-15

12-14-15
PLANS APPROVAL DATE

MAZIN S. IBRAHIM — REGISTERED PROFESSIONAL ENGINEER — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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LEGEND:

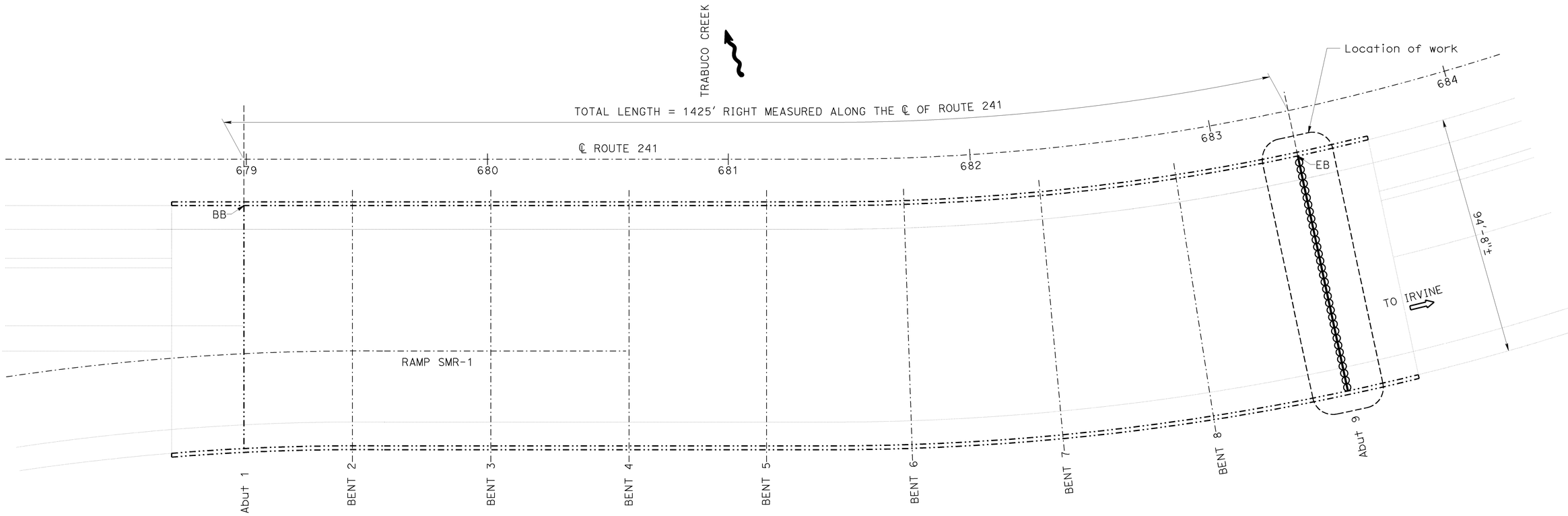
Indicates existing.

Indicates direction of traffic.

Indicates location of remove joint seal assembly and install new joint seal assembly. See "JOINT SEAL ASSEMBLY DETAILS" sheet.

JOINT SEAL ASSEMBLY DIMENSIONS

LOCATION	MINIMUM "MR" (INCHES)	SKEW	"a" DIMENSION		
			WINTER	SPRING/FALL	SUMMER
Abut 9	5	0	4½	3½	2½



TRABUCO CREEK

Br No. 55-0700R, Rte 241, PM 18.70
No Scale

TRABUCO CREEK #55-0700R
QUANTITIES

BRIDGE REMOVAL (PORTION)	LUMP SUM
TEMPORARY DECKING	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	18 CY
JOINT SEAL ASSEMBLY (MR 5")	95 LF
BAR REINFORCING STEEL (BRIDGE)	1,550 LB

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Vaikunthan Renga	PLANS AND SPECS COMPANION Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 11

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	11	19

FILE => 12-0n9601-a-gp11 .dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	31	38

09-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MAZIN S. IBRAHIM
No. C69896
Exp. 09/30/16
CIVIL
STATE OF CALIFORNIA

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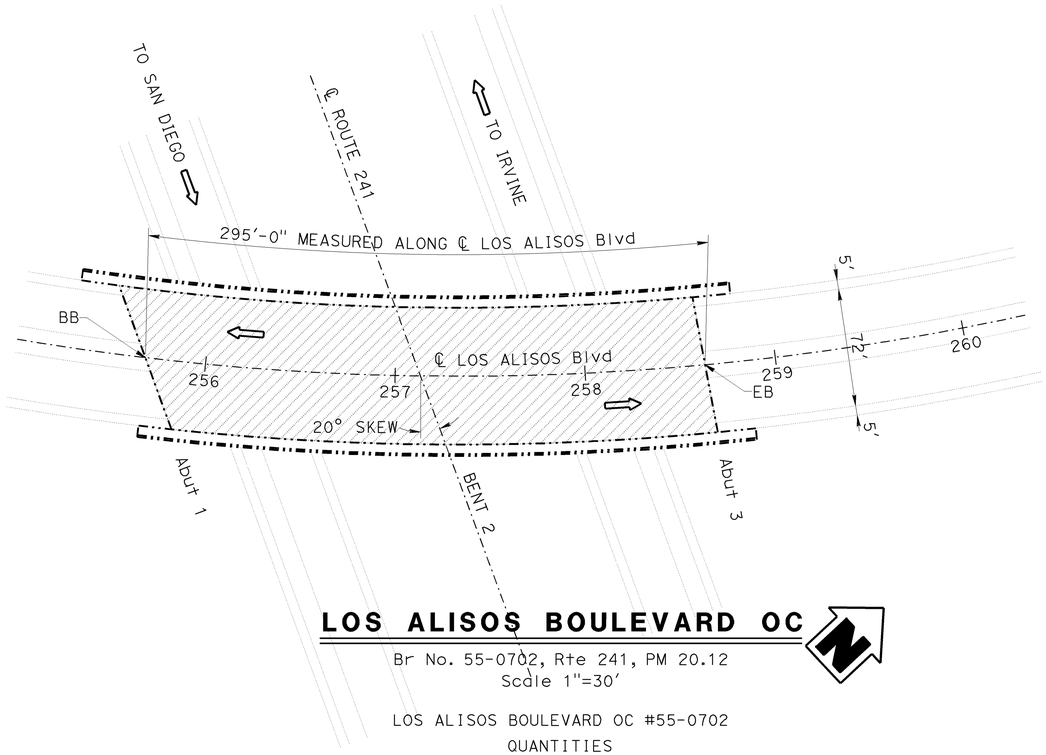
LEGEND:

Indicates existing.

Indicates direction of traffic.

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



LOS ALISOS BOULEVARD OC

Br No. 55-0702, Rte 241, PM 20.12
Scale 1"=30'

LOS ALISOS BOULEVARD OC #55-0702
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	24,200 SQFT
TREAT BRIDGE DECK	24,200 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	346 GAL

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Vaikunthan Renga	PLANS AND SPECS COMPARED Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 12

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
06-16-15	06-30-15	09-16-15	09-17-15	12	19

FILE => 12-0n9601-a-gp12.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, ,241,405	Var	32	38

09-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MAZIN S. IBRAHIM
No. C69896
Exp. 09/30/16
CIVIL
STATE OF CALIFORNIA

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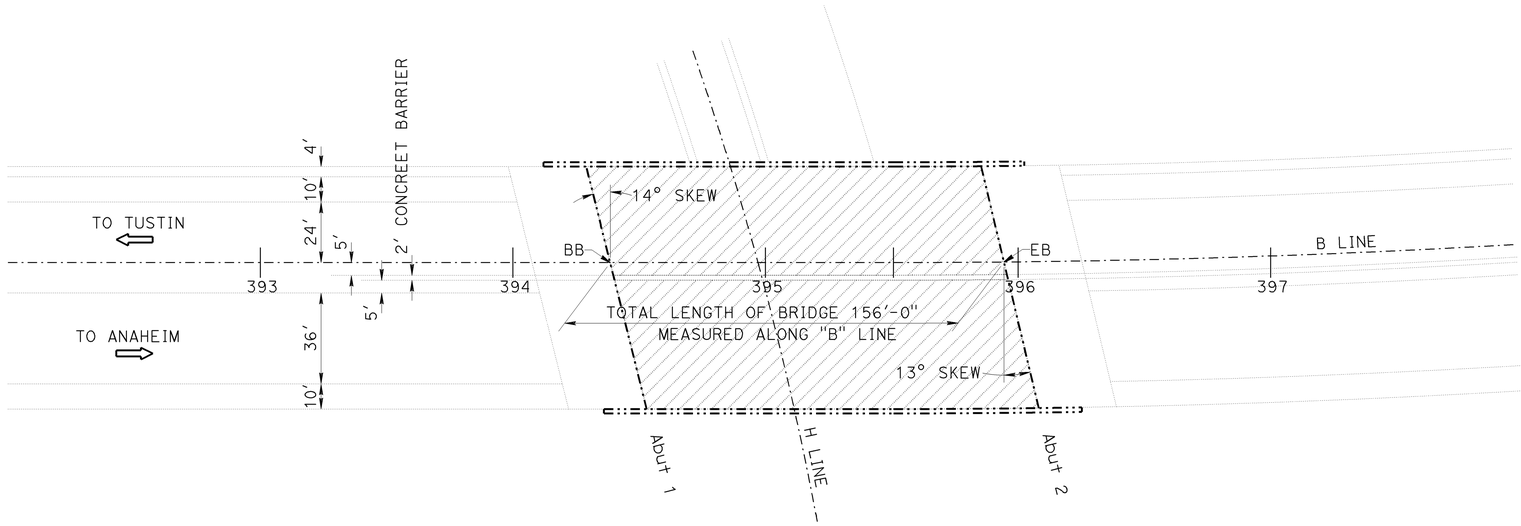
LEGEND:

Indicates existing.

Indicates direction of traffic.

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



HAUL ROAD UC

Br No. 55-0895, Rte 241, PM 28.70
Scale 1"=30'

HAUL ROAD UC #55-0895
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	14,700 SQFT
TREAT BRIDGE DECK	14,700 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	210 GAL

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Vaikunthan Renga	Vaikunthan Renga
PLANS AND SPECS COMPARED		Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 13

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	13	19

FILE => 12-0n9601-a-gp13.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	33	38

09-17-15
REGISTERED CIVIL ENGINEER — DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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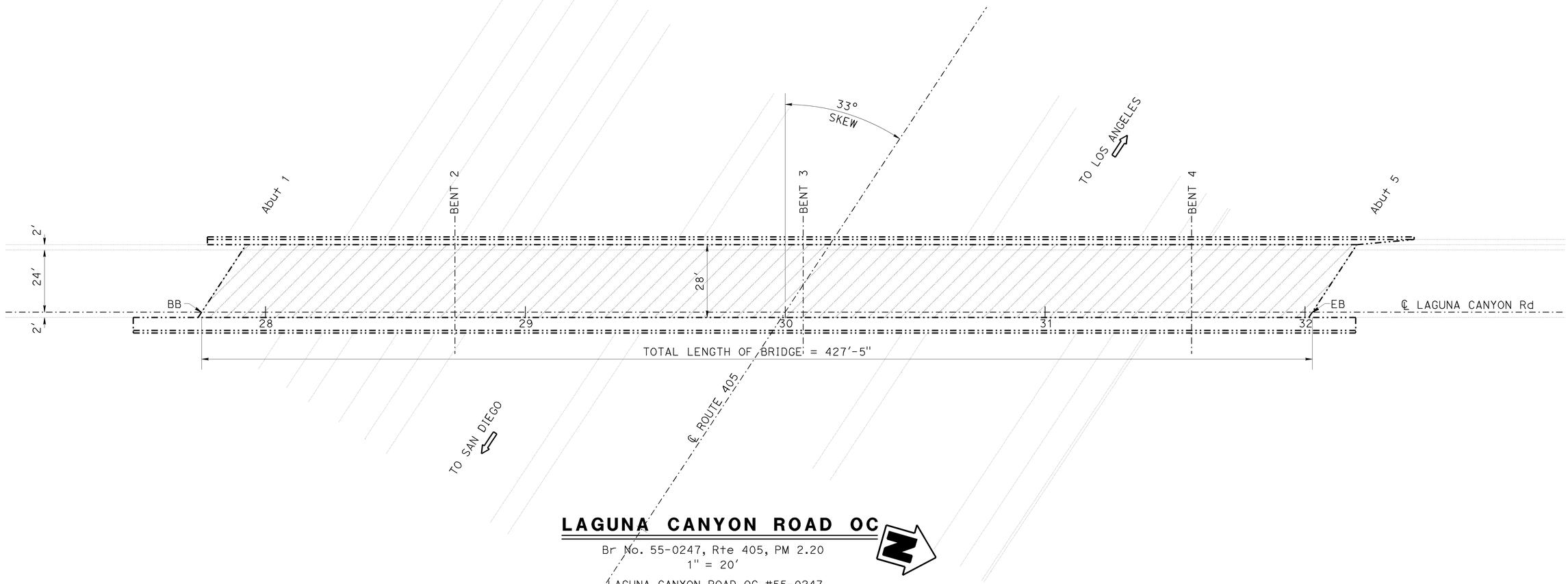
LEGEND:

Indicates existing.

Indicates direction of traffic.

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



LAGUNA CANYON ROAD OC

Br No. 55-0247, Rte 405, PM 2.20
1" = 20'

LAGUNA CANYON ROAD OC #55-0247
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	12,000 SQFT
TREAT BRIDGE DECK	12,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	172 GAL

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Vaikunthan Renga	PLANS AND SPECS COMPARED: Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.: Various
POST MILE: Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 14

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	14	19

FILE => 12-0n9601-a-gp14.dgn

USERNAME = s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	34	38

09-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

MAZIN S. IBRAHIM
No. C69896
Exp. 09/30/16
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

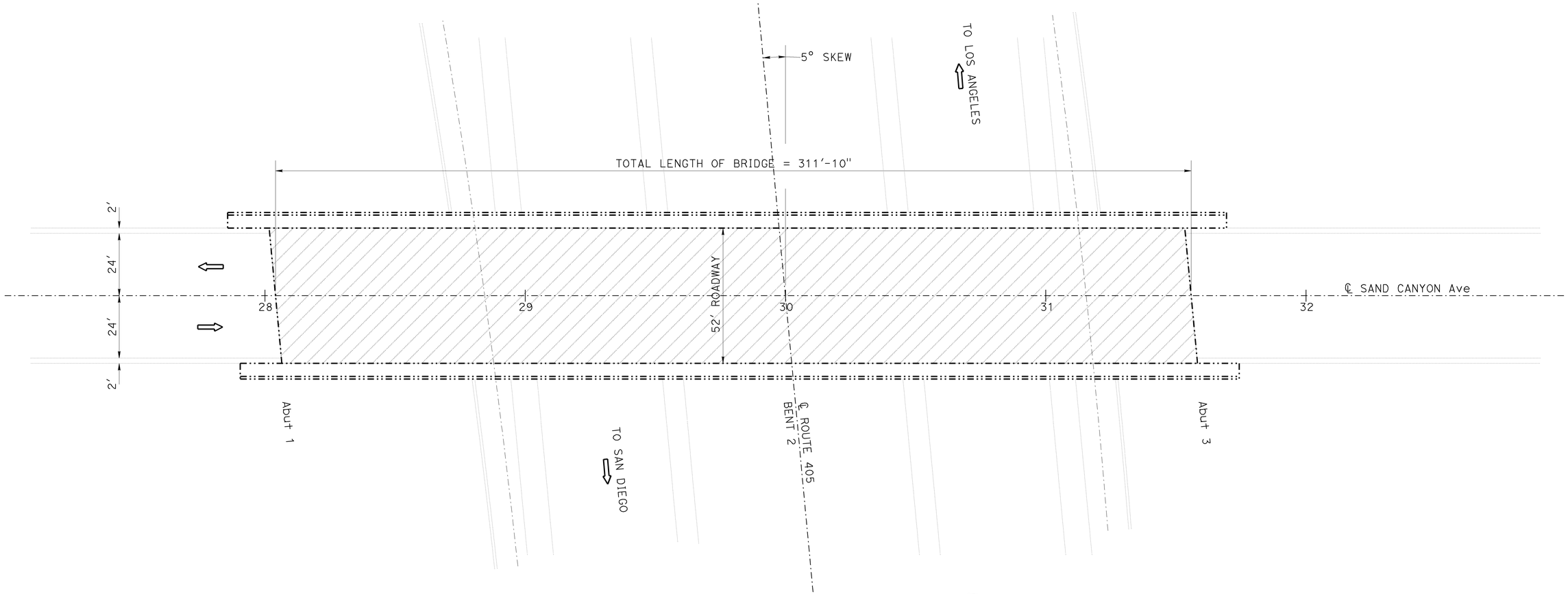
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

Indicates existing.

Indicates direction of traffic.

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



SAND CANYON AVENUE OC

Br No. 55-0443, Rte 405, PM 2.88
1" = 20'

SAND CANYON AVENUE OC #55-0443
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	16,250 SQFT
TREAT BRIDGE DECK	16,250 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	232 GAL

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Vaikunthan Renga	PLANS AND SPECS COMPARED Vaikunthan Renga

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
GENERAL PLAN NO. 15

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-16-15	09-16-15	09-17-15	15	19

FILE => 12-0n9601-a-gp15.dgn

USERNAME = s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	35	38

REGISTERED CIVIL ENGINEER — 09-17-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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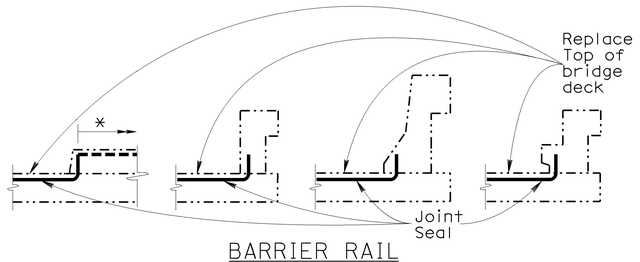
JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION		MINIMUM "MR" (INCHES)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX JOINT LENGTH (ft)
Coal Canyon Road UC	55-0507L	Abut 2	BW	½	No	6	107
Trabuco Creek	55-0700R	Abut 9	BW	5	No	-	94'-8"

BW = Backwall



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Details shown for illustration purposes only.
For use only where deck joint matches the sidewalk, curb or barrier rail joint.
* Extension of joint will be determined by the Engineer if necessary.

NOTES:

The following notes apply to JOINT SEAL TYPE A:

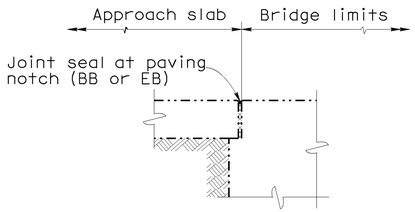
Install Joint Seal (MR = ½") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see Standard Plan B6-21.

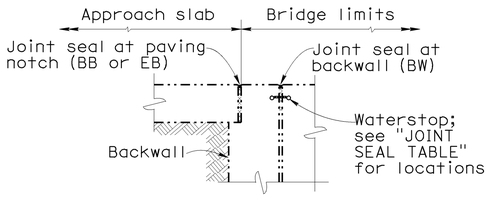
The following notes apply to JOINT SEAL TYPE B:

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.

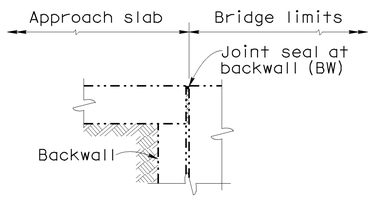
For details not shown see Standard Plan B6-21.



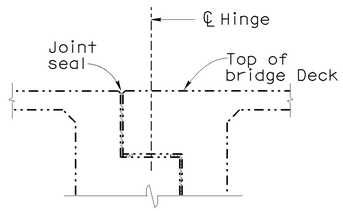
DIAPHRAGM ABUTMENT



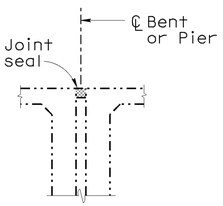
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

NOTE:
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JOINT SEAL LOCATION

Abutment joint is not required with AC roadway pavement transverse contact joint.

DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim			POST MILE Varies
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran			

ROUTES 5,90,91,241,405 BRIDGES
MISCELLANEOUS DETAILS NO. 1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-16-15	06-18-15	09-16-15	09-17-15	16	19

FILE => 12-0n9601-u-miscdt01.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	36	38

REGISTERED CIVIL ENGINEER — DATE 09-17-15

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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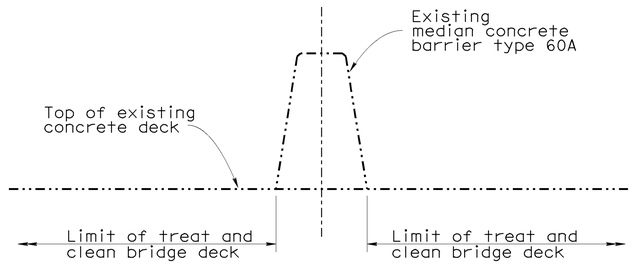
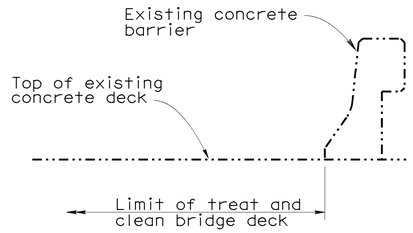
DECK REPAIR NOTES:

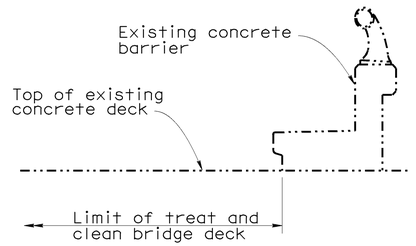
1. Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
2. It is responsibility of the Contractor to repair any reinforcement that is accidently cut by saw cutting operations.
3. When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
4. The saw cut depth shall not exceed ¾ inch or the concrete cover over the top steel reinforcing bars, whichever is less.
5. Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.



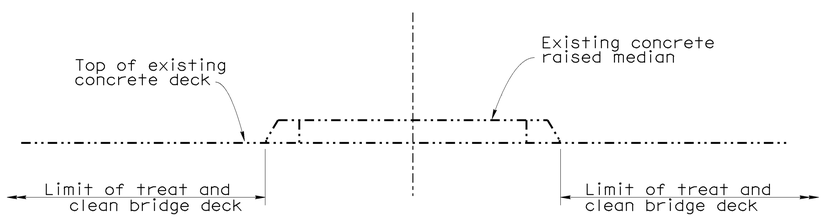
MEDIAN BARRIER



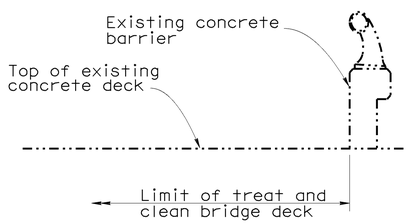
EOD BARRIER



SIDEWALK BARRIER TYPE 2



RAISED MEDIAN



SIDEWALK BARRIER TYPE 1

TYPICAL LIMITS OF DECK WORK

NO SCALE

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,90,91,241,405 BRIDGES
MISCELLANEOUS DETAILS NO. 2

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
06-16-15	06-16-15	09-16-15	09-17-15	17	19

FILE => 12-0n9601-u-miscdt02.dgn

USERNAME => s117203 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:52

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	37	38

REGISTERED CIVIL ENGINEER — DATE 09-17-15

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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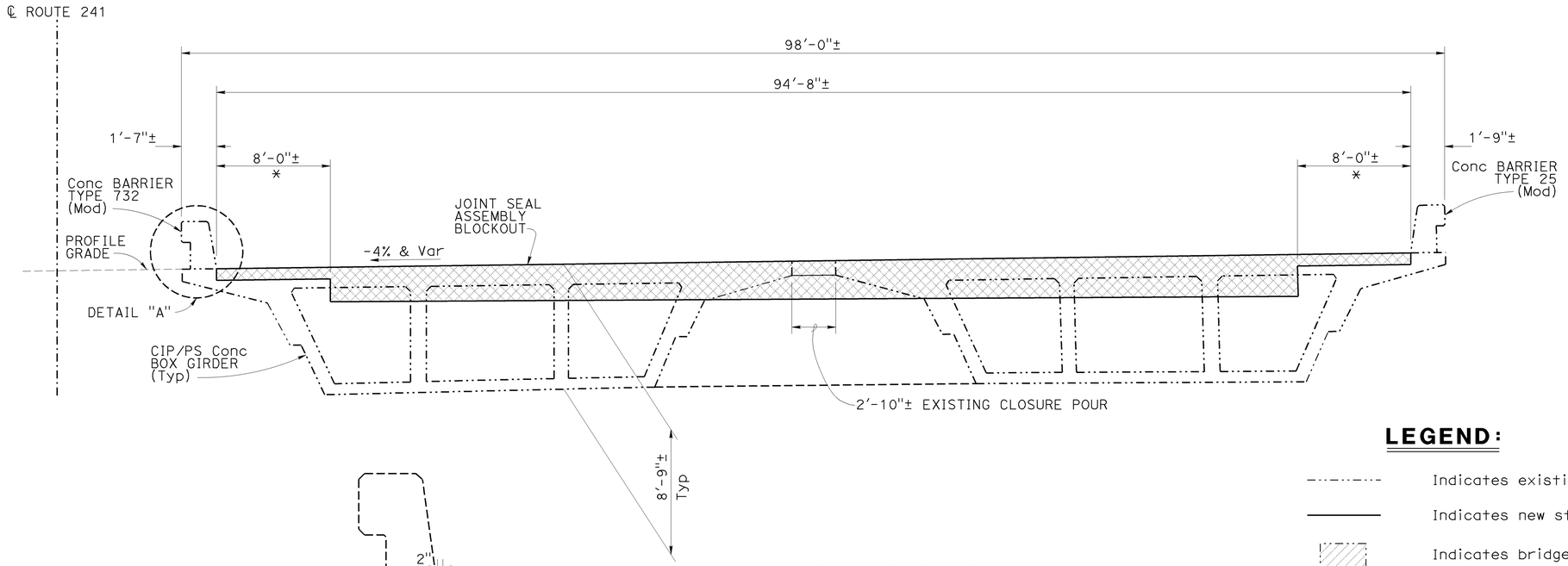
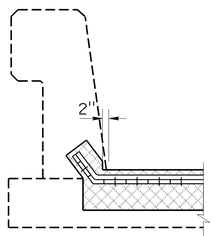


TYPICAL SECTION

NO SCALE
Br No. 55-0700R, Abut 9
* LIMIT OF EXTERIOR SECTION, SEE NOTE 1



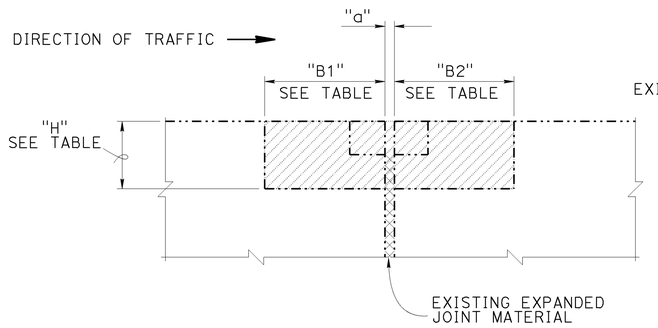
DETAIL "A"

LEGEND:

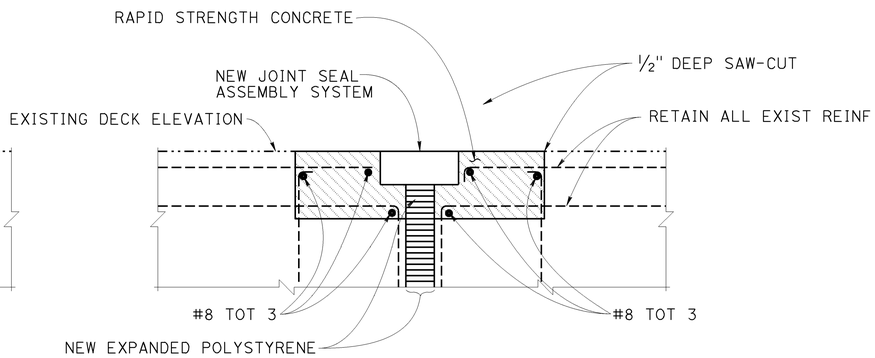
- Indicates existing.
- Indicates new structure.
- Indicates bridge removal (portion). Preserve existing reinf.
- Indicates structural concrete, bridge.
- Indicates existing reinf.

NOTES:

1. Use 6" long anchor studs at 8'-0" exterior section.
2. Shop drawing for modular unit joint seal assembly shall be submitted for approval by the Engineer.
3. Caution must be taken during concrete removal operation to prevent overhang collapse at exterior section.
4. For steel decking, see "TEMPORARY STEEL DECKING" sheet.



EXISTING



RECONSTRUCTION

JOINT SEAL ASSEMBLY REPLACEMENT

NO SCALE

JOINT SEAL ASSEMBLY DIMENSIONS						"a" DIMENSIONS		
BRIDGE NUMBER	JOINT SEAL LOCATION	"B1"	"B2"	"H"	SKEW	WINTER	SPRING & FALL	SUMMER
55-0700R	Abut 9 INTERIOR	24"	26"	12"	0°	9"	8.5"	8"
	Abut 9 EXTERIOR	24"	26"	9"	0°			

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. 55-0700R
POST MILE 18.70

ROUTES 5,90,91,241,405 BRIDGES
JOINT SEAL ASSEMBLY DETAILS

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 05-06-15 | 06-16-15 | 09-16-15 | 09-17-15

SHEET 18 OF 19

FILE => 12-0n9601-v-jntsealdt.dgn

USERNAME => s117283 DATE PLOTTED => 03-NOV-2015 TIME PLOTTED => 05:52

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	5,90,91, 241,405	Var	38	38

REGISTERED CIVIL ENGINEER — 09-17-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZLIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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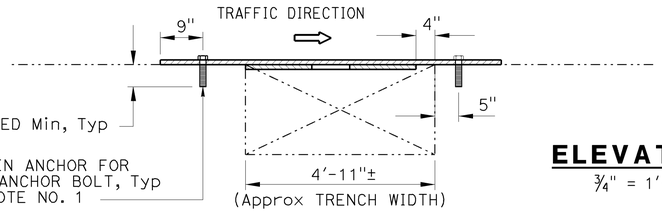
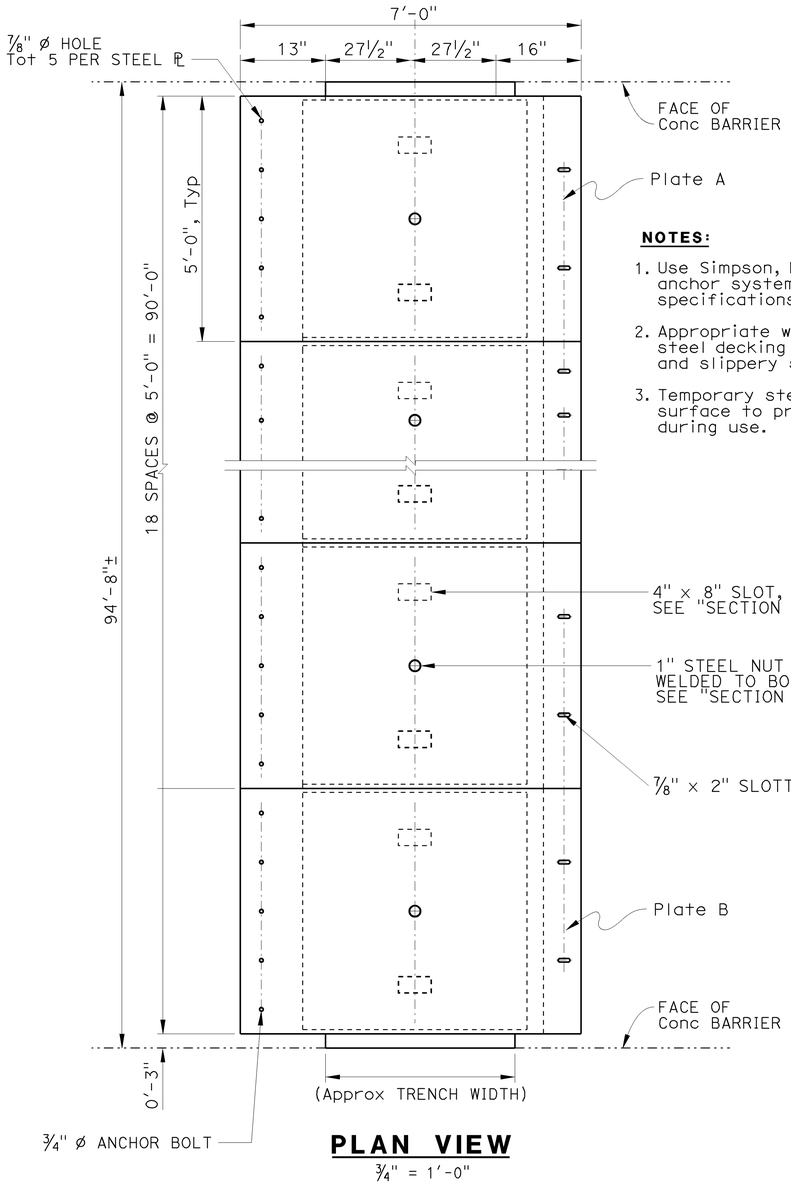


ELEVATION
¾" = 1'-0"



PLAN VIEW
¾" = 1'-0"

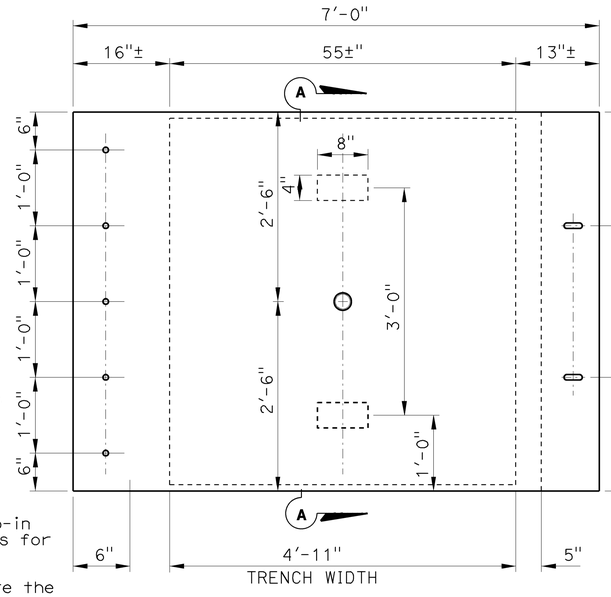


PLATE DETAIL A
1" = 1'-0"
(PLAN VIEW)

NOTES:

1. Use Simpson, Hilti, Redheads, or equivalent drop-in anchor systems. Refer to manufactures' catalogs for specifications and installation procedures.
2. Appropriate warning signs shall be placed before the steel decking to warn approaching traffic of a bump and slippery surface.
3. Temporary steel decking shall be placed on a flat surface to prevent vertical movement of the plates during use.

LEGEND:

Indicates existing

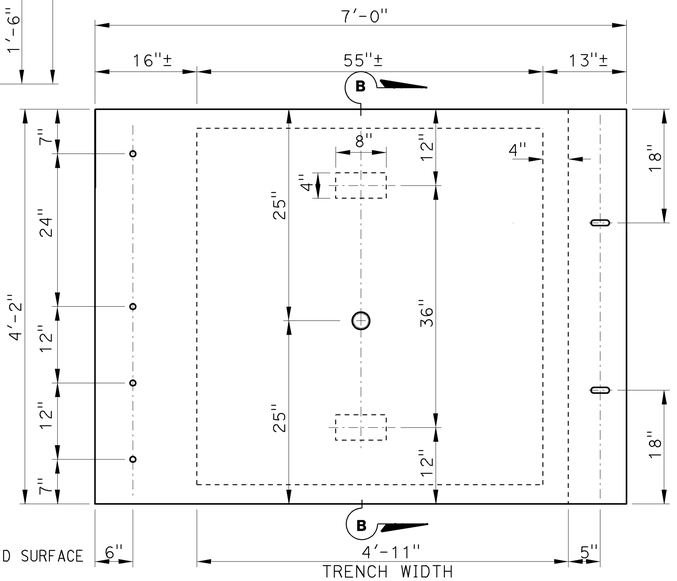
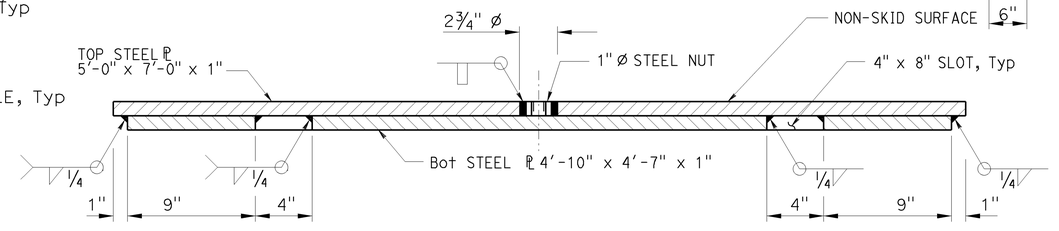
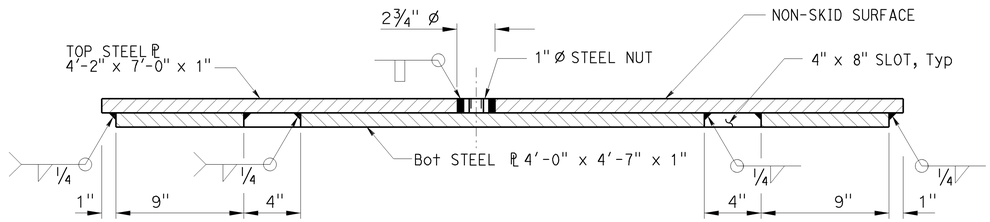


PLATE DETAIL B
1" = 1'-0"
(PLAN VIEW)



SECTION A-A



SECTION B-B

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

	BY	CHECKED
DESIGN	Mazin Ibrahim	Hong Tien Tran
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Hong Tien Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. 55-0700R
POST MILE 18.70

ROUTES 5,90,91,241,405 BRIDGES
TEMPORARY STEEL DECKING

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1215000014 1 CONTRACT NO.: 12-0N9604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
05-06-15	06-16-15	09-16-15	09-17-15	19	19

FILE => 12-0n9601-v-tempstldeckg.dgn

USERNAME => s117283 DATE PLOTTED => 10-DEC-2015 TIME PLOTTED => 09:42