

INDEX OF PLANS

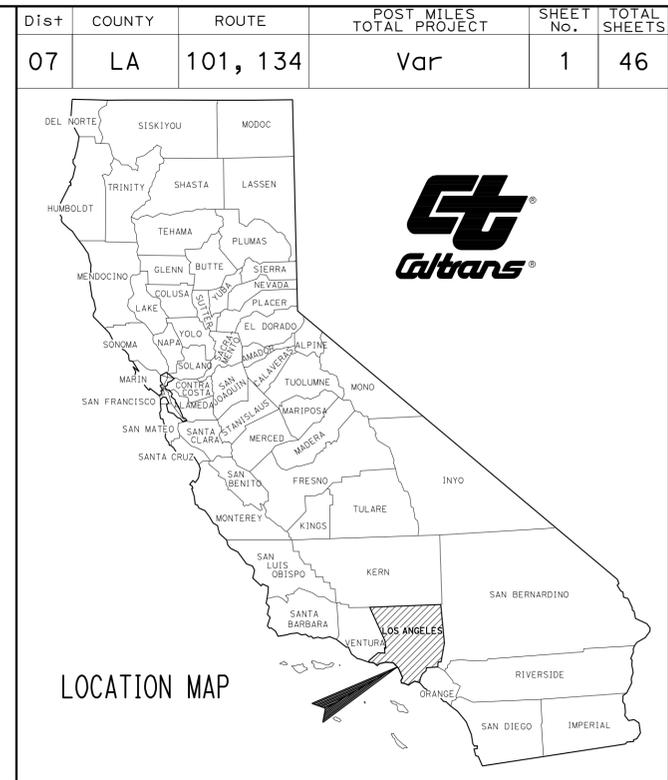
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION AREA SIGNS
4-12	TRAFFIC HANDLING DETAILS
13	PAVEMENT DELINEATION DETAILS
14-17	PAVEMENT DELINEATION QUANTITIES
18-30	REVISED STANDARD PLANS

STRUCTURE PLANS
31-46 ROUTE 101, 134 BRIDGES

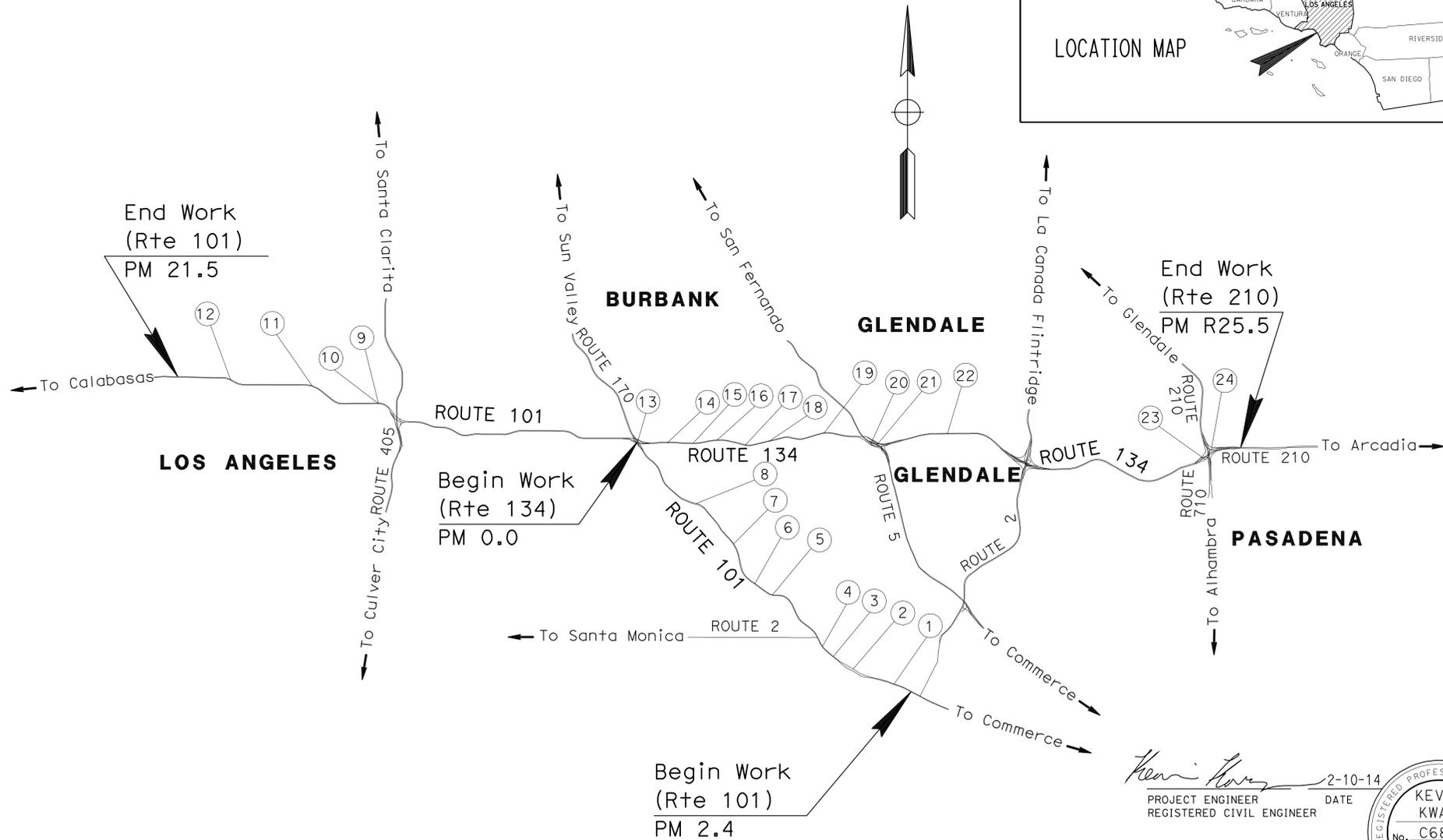
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN LOS ANGELES COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATIONS OF CONSTRUCTION				
Loc	ROUTE	PM	BRIDGE NAME	BRIDGE No.
1	101	2.86	ALVARADO St SEPARATION	53-0617
2		3.63	VENDOME St UC	53-0073
3		3.76	SILVER LAKE Blvd UC	53-0613
4		4.99	NORMANDIE Ave UC	53-0674
5		6.15	WILTON PLACE OC	53-0731
6		6.41	VAN NESS Ave ON-RAMP UC	53-0732K
7		6.91	GOWER St UC	53-0679
8		7.04	GOWER St OFF-RAMP	53-0865K
9		17.51	HASKELL Ave UC	53-1103L
10		17.51	HASKELL Ave UC	53-1103R
11		19.22	BALBOA Blvd UC	53-1052
12		21.02	BURBANK Blvd UC	53-1056
13	134	0.01	RIVERSIDE Dr OFF-RAMP OC	53-1493S
14		0.35	VINELAND Ave UC	53-1272
15		0.86	CAHUENGA Blvd UC	53-1274
16		1.82	PASS Ave OC	53-1277
17		2.03	ALAMEDA Ave OC	53-1278
18		2.11	HOLLYWOOD WAY OC	53-1279
19		3.47	LOS ANGELES RIVER	53-1285
20		R5.47	ROUTE 134/5 SEPARATION	53-1074R
21		R5.67	W134/5 CONNECTOR BOH	53-1790H
22		R6.57	PACIFIC Ave UC	53-1746
23		R13.23	ST JOHN Ave/E134-S710 OC	53-2265
24		R13.24	ROUTE 134, 210/710, 210 SEPARATION	53-2317



PROJECT MANAGER
CHRISTIAN SAM

 DESIGN ENGINEER
HAMID SAADATNEJADI

Kevin Kwan 2-10-14
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
March 3, 2014
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



NO SCALE

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

CONTRACT No.	07-1W6504
PROJECT ID	0712000451

DATE PLOTTED => 14-MAR-2014
 TIME PLOTTED => 10:35
 LAST REVISION: 03-03-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	2	46

2-10-14
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE

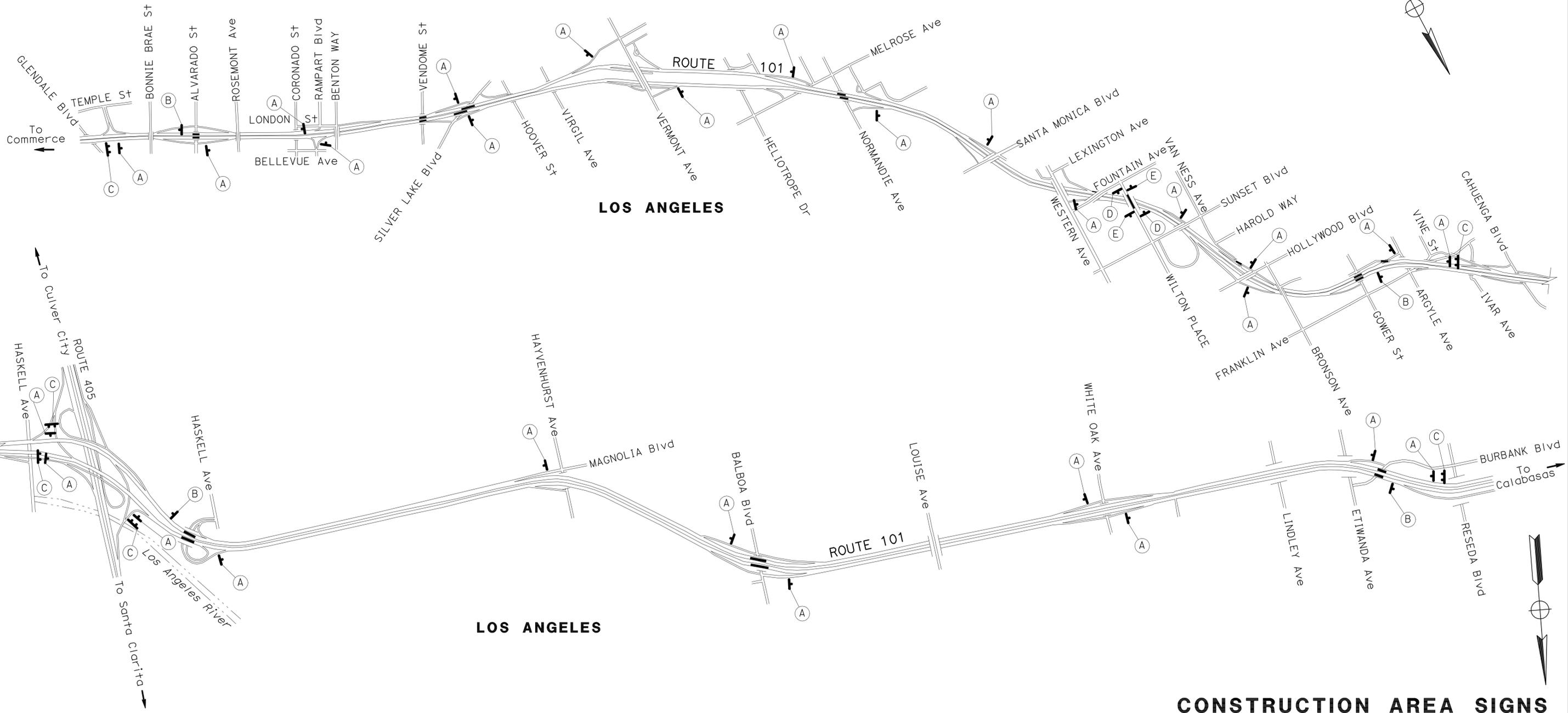
KEVIN KWAN
 No. C68219
 Exp. 9-30-15
 CIVIL

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

NOTES:

- EXACT LOCATION AND POSITION OF SIGNS WILL BE DETERMINED BY THE ENGINEER.
- FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE SHEET CS-2.

SIGN No. (X)	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 - 6" x 6"	46
B	G20-2		48" x 24"	END ROAD WORK	1 - 4" x 6"	10
C		C40	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	15
D	W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	8
E	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	8



CONSTRUCTION AREA SIGNS
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

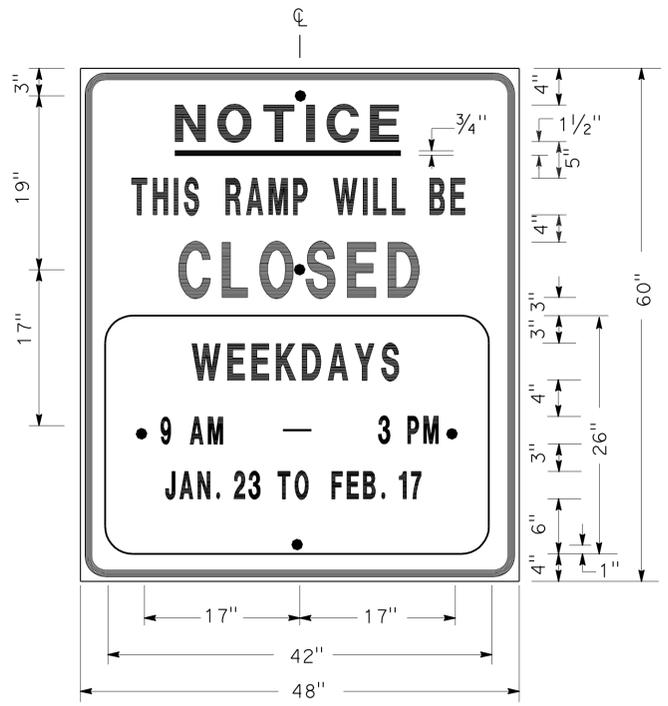
CS-1

REVISIONS:
 REVISED BY: DINESH BHAVSAR
 DATE: KEVIN KWAN
 CALCULATED/DESIGNED BY: HAMID SAADATNEJADI
 CHECKED BY:
 FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

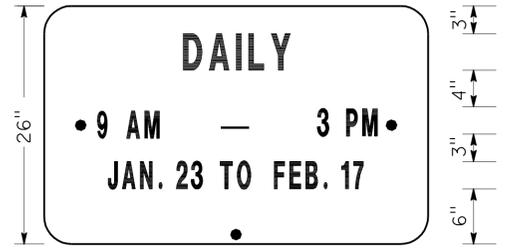
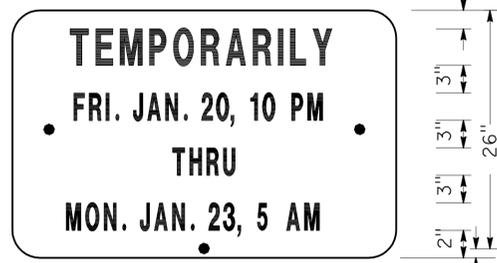
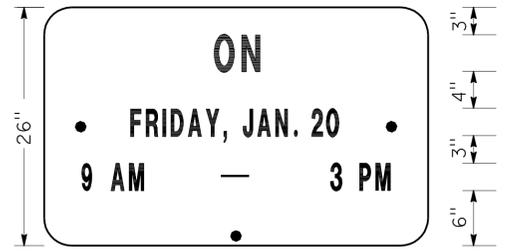


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	4	46

Albert K. Yu 6-6-13
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SIGN SP-1



ALTERNATE OVERLAY PANELS (TYPICAL)

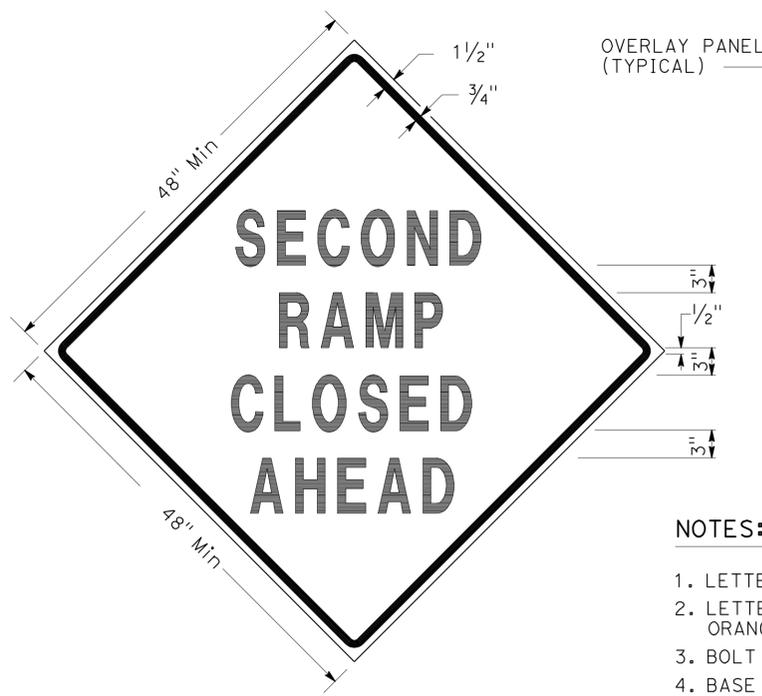
NOTES: (SIGN SP-1)

- LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
- BOLT HOLES SHALL BE 3/8" DIAMETER.
- BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
- SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5, 6, & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"

* CONDENSED SPACING IF NECESSARY

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3



SIGN SP-5

NOTES: (SIGNS SP-3 & SP-5)

- LETTERS - 6" SERIES D.
- LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
- BOLT HOLES SHALL BE 3/8" DIAMETER.
- BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
- SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.
- SIGN SP-5 SHALL BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

SPECIAL SIGNS FOR EXIT RAMP CLOSURES



SIGN SP-4

NOTES: (SIGN SP-4)

- LETTERS - 6" SERIES C.
- LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
- BOLT HOLES SHALL BE 3/8" DIAMETER.
- BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
- SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH REVISED STANDARD PLAN RSP T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

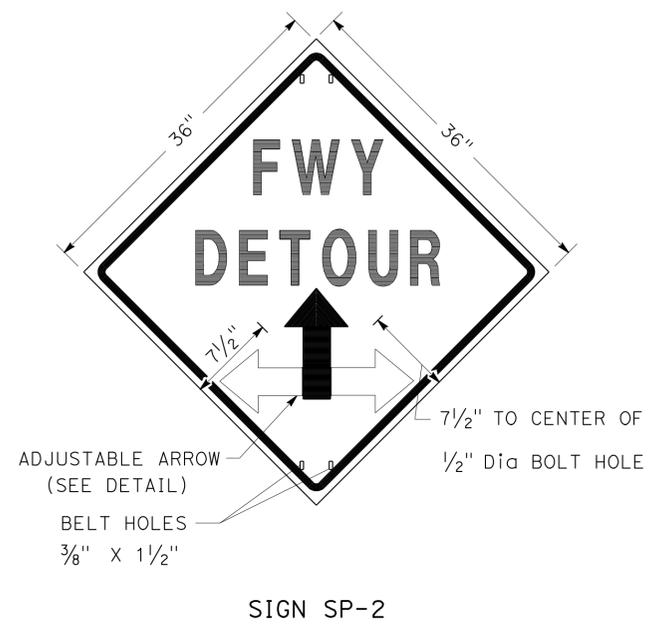
**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURES, DETOUR SIGNS,
 AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

NO SCALE

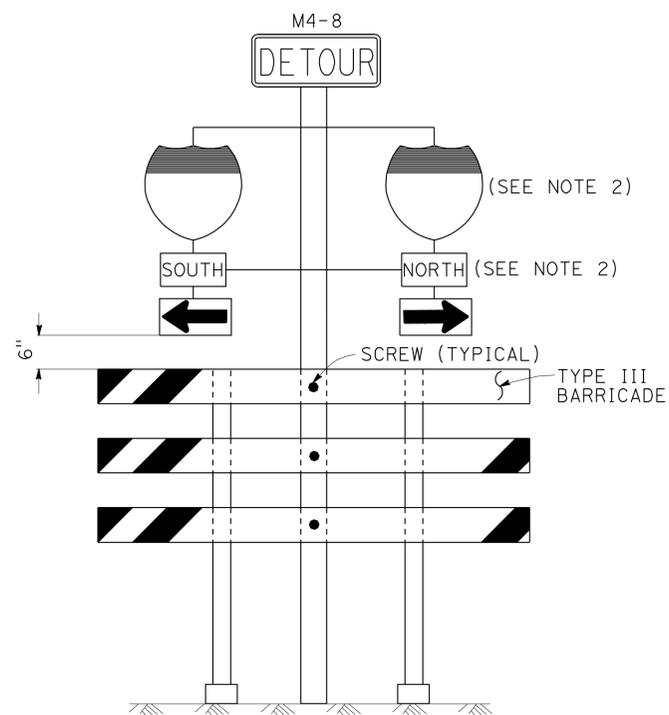
THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DTM
 Caltrans®
 FUNCTIONAL SUPERVISOR JOHN YANG
 CHECKED BY JOCELYN C CHIANG
 DESIGNED BY ALBERT K YU
 REVISIONS BY JC
 DATE 7/10

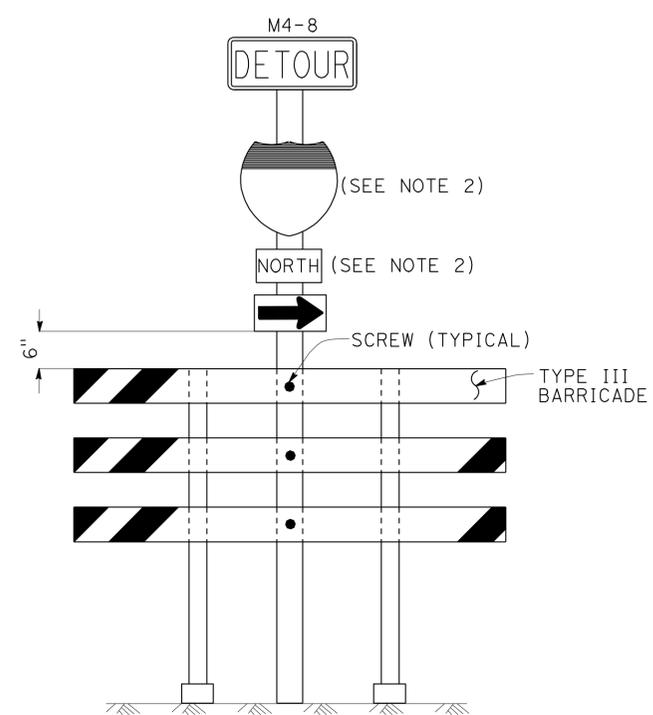


- NOTES: SIGN SP-2**
- LETTERS - 6" SERIES E.
 - LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
 - BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
 - BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
 - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

ABBREVIATION
 (CA) CALIFORNIA CODE



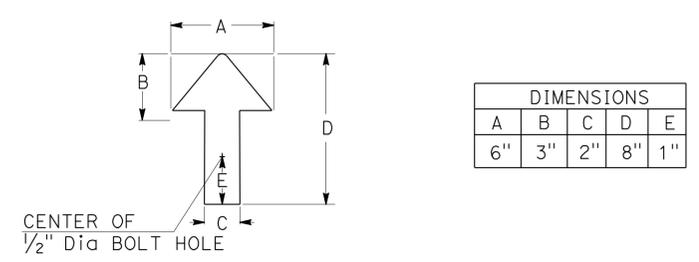
SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

- NOTES: (SIGNS SP-6 & SP-7)**
- IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
 - USE APPROPRIATE ROUTE MARKER [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)].

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



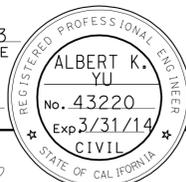
ADJUSTABLE ARROW DETAIL

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR RAMP CLOSURES, DETOUR SIGNS,
AND MISCELLANEOUS DETAILS
SHEET 2 OF 2
 NO SCALE

THD-2

LAST REVISION DATE PLOTTED => 14-MAR-2014 10:35
 03-03-14 TIME PLOTTED => 10:35

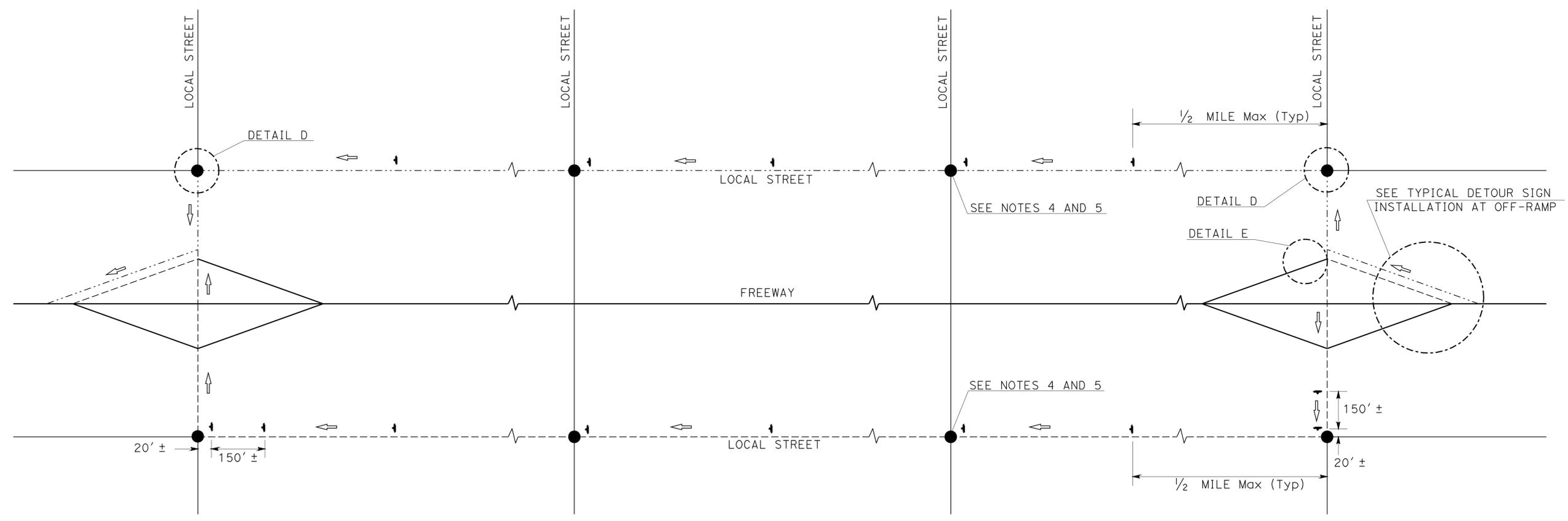
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	6	46

 REGISTERED CIVIL ENGINEER DATE 6-6-13	
3-3-14 PLANS APPROVAL DATE	

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

- LEGEND**
-  SIGN SP-2
 -  AND/OR DESIGNATED DETOUR ROUTE
 -  DETOUR DIRECTION
 -  CONTROLLED INTERSECTION

- NOTES:**
- SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
 - SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
 - SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
 - SP-2 SIGNS SHALL BE POSTED AT EACH CONTROLLED INTERSECTION (EXCEPT AT COMMERCIAL PROPERTY, RESIDENTIAL COMPLEX OR T-INTERSECTION FROM ONE-WAY STREET) ALONG THE DESIGNATED DETOUR ROUTE.
 - UNLESS OTHERWISE SHOWN ON OTHER THD PLANS, WHEN CONTROLLED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE ARE CLOSELY SPACED, PLACE SP-2 SIGNS AT CONTROLLED INTERSECTIONS AT A DISTANCE NOT TO EXCEED 1/4 MILE FROM THE PRECEDING DETOUR SIGN.
 - EXCEPT AS OTHERWISE SHOWN ON OTHER PLANS OR SPECIFIED IN THE SPECIAL PROVISIONS, SP-2 SIGNS SHALL BE PLACED AS SHOWN ON THIS PLAN.



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR DETOUR SIGN INSTALLATION
ALONG DESIGNATED DETOUR ROUTE
SHEET 1 OF 2**

NO SCALE

THD-3

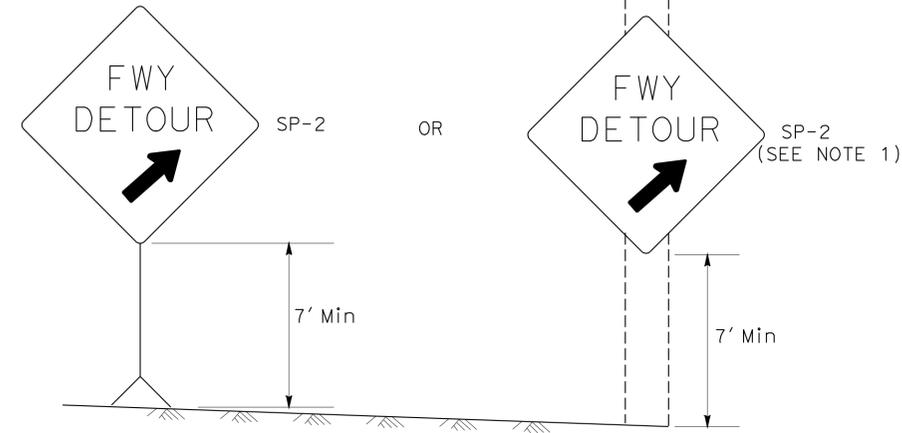
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR JOHN YANG
 CALCULATED/DESIGNED BY JOCELYN C CHIANG
 CHECKED BY
 REVISOR BY JC
 DATE REVISED 7/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	7	46

6-6-13
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE

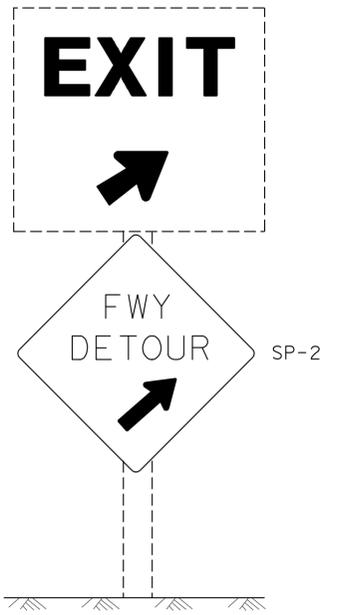
ALBERT K. YU
 No. 43220
 Exp 3/31/14
 CIVIL

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



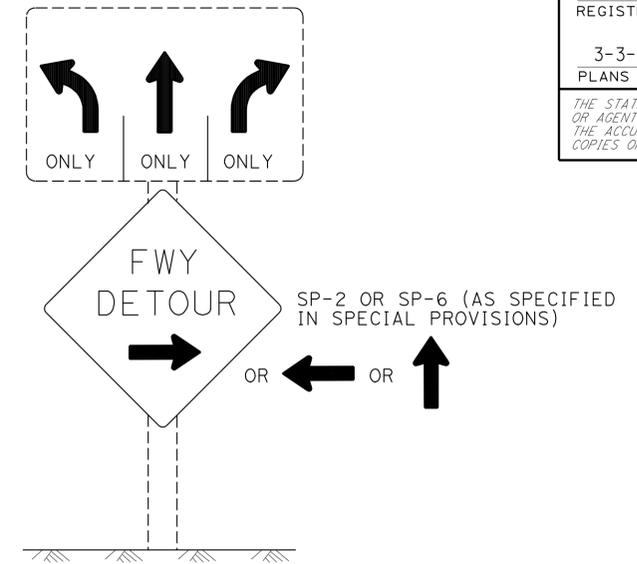
DETAIL A (SEE NOTE 3)

Exist E5-1, G84-2 (CA) OR G84-3 (CA)

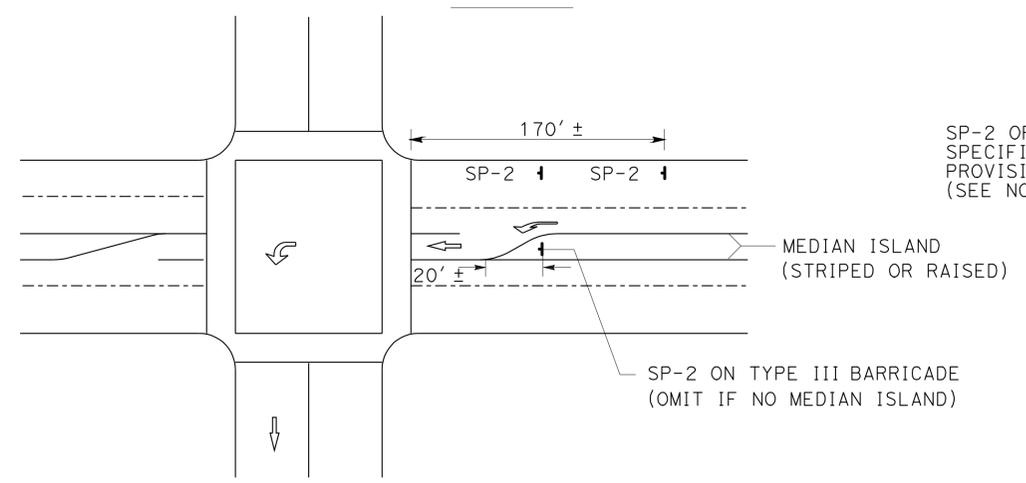


DETAIL B (SEE NOTE 3)

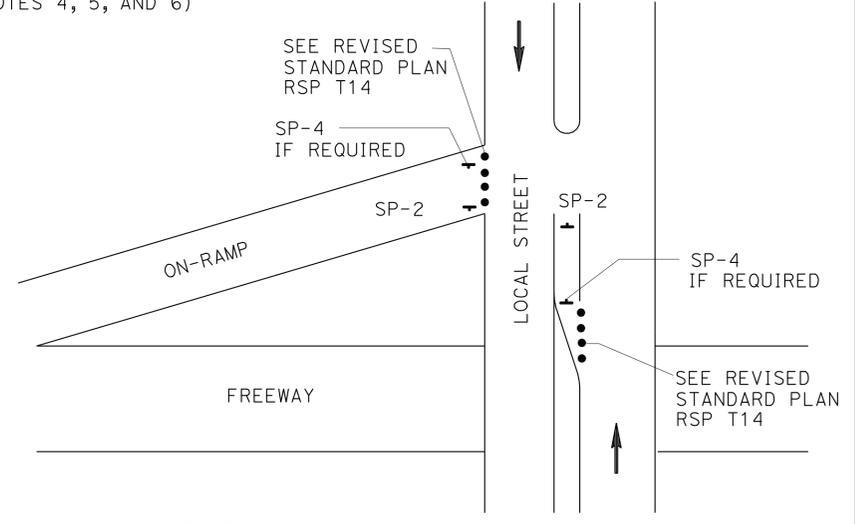
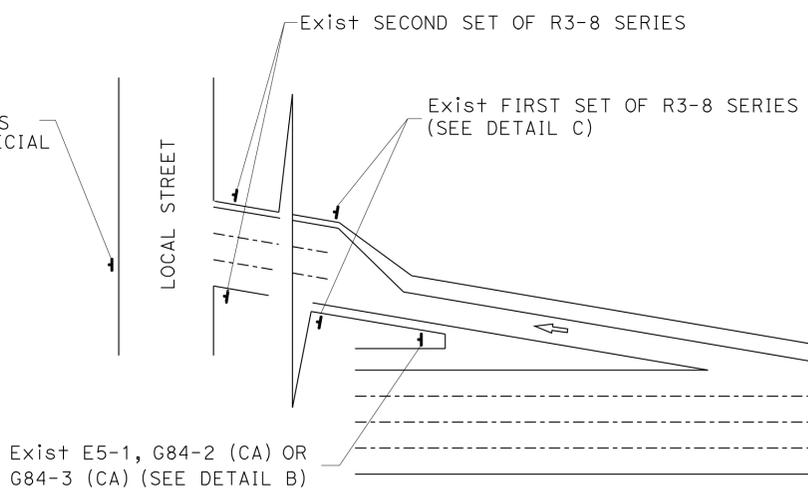
Exist R3-8 SERIES



DETAIL C (SEE NOTES 4, 5, AND 6)



DETAIL D



DETAIL E

- LEGEND**
- CONE
 - ⊣ PORTABLE SIGN
 - ➔ DIRECTION OF TRAVEL
 - ➞ DETOUR DIRECTION
 - EXISTING OVERHEAD SIGN

TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

SIGN CODE LEGEND

XYYY-Y: FEDERAL SIGN CODE PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
 XYYY-Y (CA): CALIFORNIA SIGN CODE PER CALIFORNIA MUTCD

NOTES: SIGN SP-2

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. OMIT DETAILS A AND B FOR FULL FREEWAY CLOSURES.
4. SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-6 SIGN DETAILS.
5. IF R3-8 SERIES SIGNS ARE NOT PRESENT AT THE OFF-RAMP, SP-2 OR SP-6 SIGNS SHALL BE FASTENED ONTO EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
6. EXCEPT FOR DETAILS A & B, OMIT SP-2 SIGNS IF RAMP HAS MANDATORY SINGLE MOVE.

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR DETOUR SIGN INSTALLATION
ALONG DESIGNATED DETOUR ROUTE
SHEET 2 OF 2

NO SCALE

THD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
 FUNCTIONAL SUPERVISOR JOHN YANG
 CHECKED BY
 CALCULATED/DESIGNED BY
 ALBERT K YU
 REVISOR BY JOCELYN C CHIANG
 DATE REVISOR 7/10
 JC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	9	46

6-6-13
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE

ALBERT K. YU
 No. 43220
 Exp 3/31/14
 CIVIL

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

NOTES:

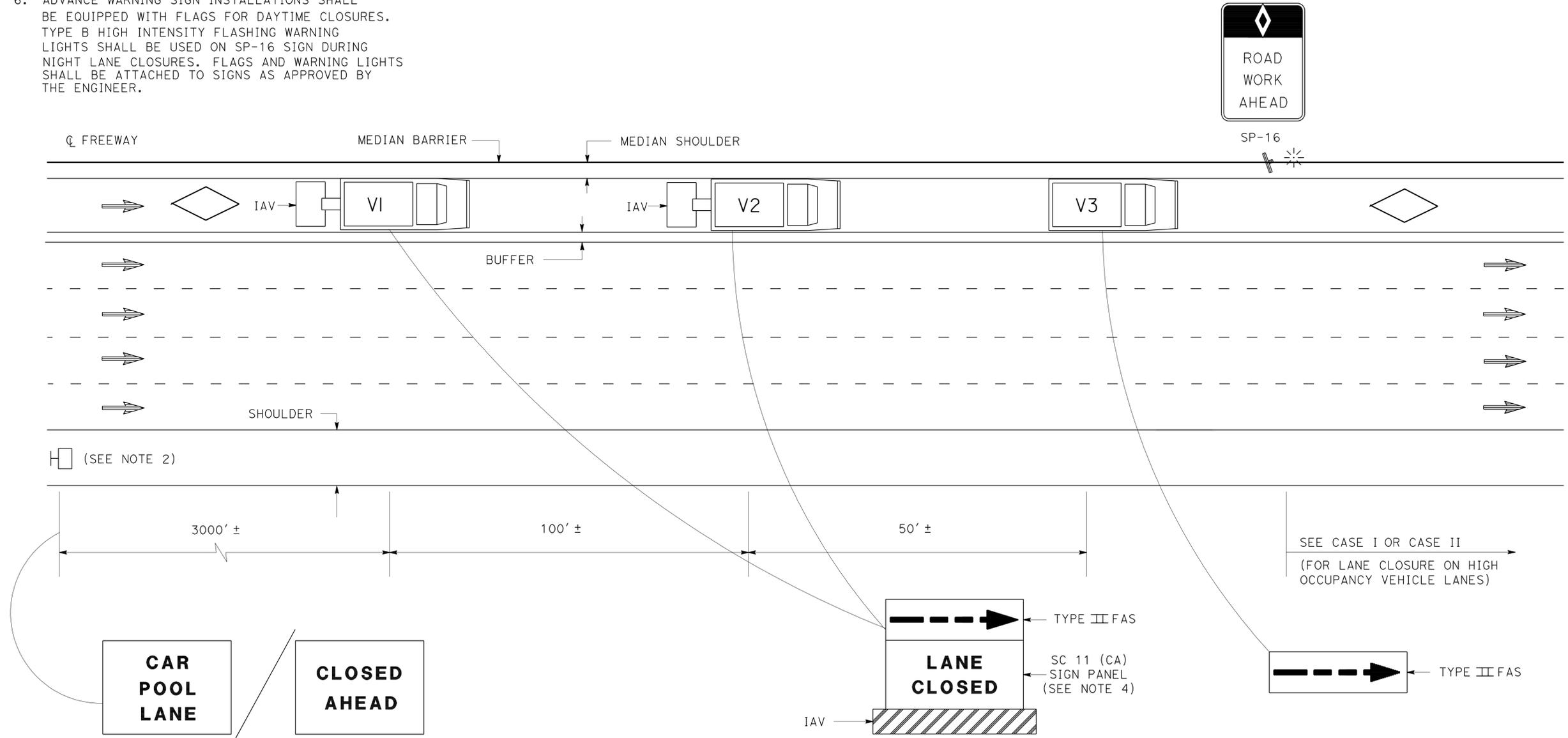
- LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
- A MINIMUM SIGHT DISTANCE OF 1500' SHALL BE PROVIDED IN ADVANCE OF PCMS.
- VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.
- PLACE PCMS ON THE MEDIAN SHOULDER WHERE SUFFICIENT ROOM (SUCH AS CHP ENFORCEMENT AREAS) EXISTS.
- ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS SHALL BE USED ON SP-16 SIGN DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS SHALL BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.

LEGEND

- V1, V2 SHADOW VEHICLES
- V3 WORK/APPLICATION VEHICLE
- PCMS
- DIRECTION OF TRAVEL
- HOV LANE
- FLASHING BEACON

ABBREVIATIONS

- FAS FLASHING ARROW SIGN
- IAV IMPACT ATTENUATOR VEHICLE
- CMS CHANGEABLE MESSAGE SIGN
- (CA) CALIFORNIA CODE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- HOV HIGH OCCUPANCY VEHICLE
- CHP CALIFORNIA HIGHWAY PATROL



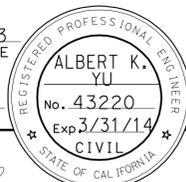
PCMS OR TRUCK MOUNTED CMS MESSAGE

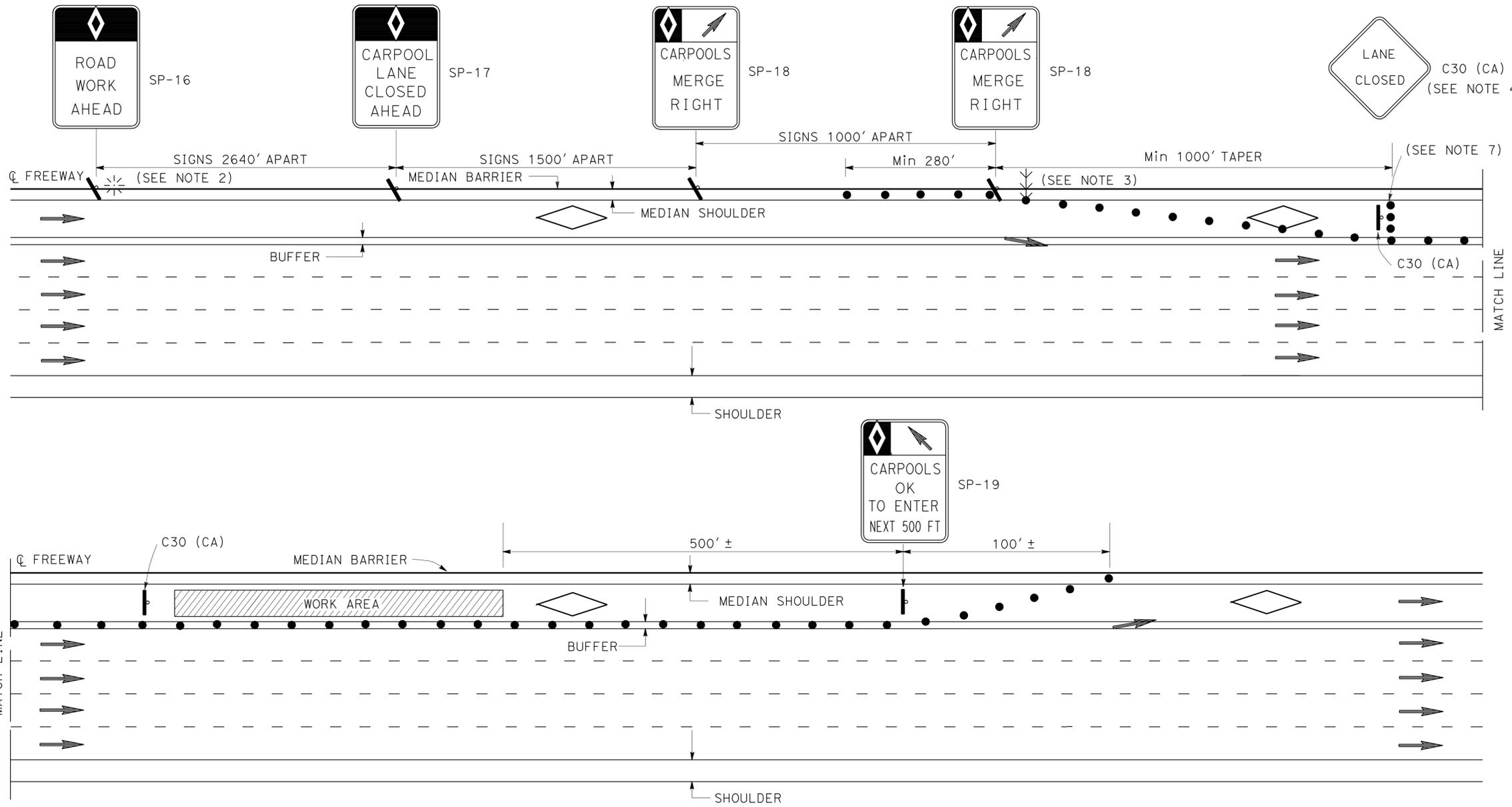
(SEE NOTE 5)

**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR HIGH OCCUPANCY VEHICLE LANES
WITH MEDIAN SHOULDERS LESS THAN 8 FEET**

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DT M
 ALBERT K YU
 JOCELYN C CHIANG
 JOHN YANG
 JC
 7/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	10	46
 REGISTERED CIVIL ENGINEER DATE 6-6-13					
3-3-14 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



LEGEND

- CONE
- ⚡ FLASHING BEACON
- ◇ HOV LANE
- ←←← FLASHING ARROW SIGN
- ⏏ PORTABLE SIGN
- DIRECTION OF TRAVEL

ABBREVIATIONS

- (CA) CALIFORNIA CODE
- HOV HIGH OCCUPANCY VEHICLE

SIGN PANEL SIZE (MIN)

- SP-16 36" X 54"
- SP-17 36" X 54"
- SP-18 36" X 48"
- SP-19 36" X 60"
- C30 (CA) 30" X 30"
- G20-2 48" X 24"

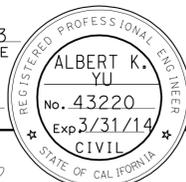
NOTES: (FOR CASE I AND CASE II)

1. AT LEAST ONE PERSON SHALL BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON NIGHT LANE CLOSURES OR DAY-TIME CLOSURES EXCEEDING 1 MILE LENGTH, INCLUDING TAPERS.
2. ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS SHALL BE USED ON SP-16 SIGN DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS SHALL BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
3. THE FLASHING ARROW SIGN SHALL BE TYPE I.
4. PLACE C30 (CA) SIGNS EVERY 2000' THROUGHOUT THE LENGTH OF LANE CLOSURE.
5. A MINIMUM 1500' OF SIGHT DISTANCE SHALL BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING THE FLASHING ARROW SIGN. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
6. PORTABLE DELINEATORS PLACED AT ONE-HALF THE SPACING INDICATED FOR TRAFFIC CONES MAY BE USED INSTEAD OF CONES FOR DAYTIME CLOSURES.
7. A MINIMUM OF 3 CONES SHALL BE PLACED TRANSVERSELY ACROSS CLOSED LANES WHERE TAPERS END AND EVERY 2000'. TWO TYPE II BARRICADES MAY BE USED INSTEAD OF 3 CONES. THE ALIGNMENT OF CONES OR BARRICADES MAY BE SHIFTED FROM THE TRANSVERSE ALIGNMENT TO PROVIDE ACCESS TO WORK.
8. IF AN INGRESS/EGRESS AREA IS WITHIN 5250' UPSTREAM OR DOWNSTREAM OF THE WORK AREA, LANE CLOSURES SHALL BE EXTENDED TO THAT AREA AS SHOWN IN CASE II.
9. SIGNS SP-16, 17, 18, AND 19 MAY BE OVERLAID ON EXISTING CARPOOL SIGNS IN MEDIANS AS APPROVED BY THE ENGINEER.
10. SIGNS SP-16, 17, 18, AND C30 (CA) SHALL BE BLACK ON ORANGE BACKGROUND. SIGN SP-19 SHALL BE BLACK ON WHITE BACKGROUND. DIAMONDS ON SIGNS SHALL BE WHITE.
11. FOR CLOSURE OF LANE(S) ADJACENT TO HOV LANES, SEE CASE II.
12. THE MAXIMUM SPACING BETWEEN CONES SHALL BE APPROXIMATELY 50' IN TAPERS AND 100' ON TANGENTS.

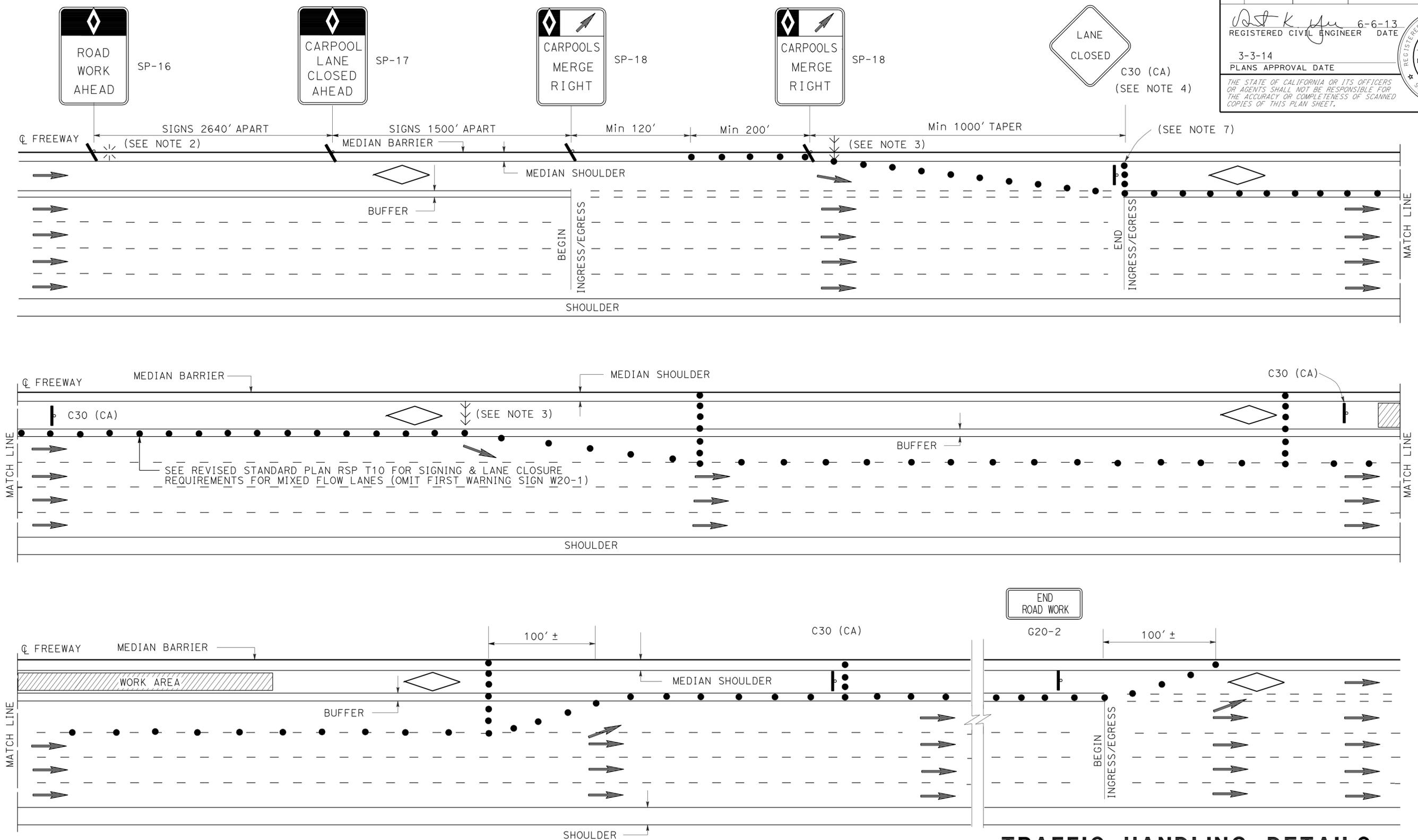
**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR HIGH OCCUPANCY VEHICLE LANES
AT NON-INGRESS/EGRESS AREAS
CASE I
NO SCALE**

THD-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: JOHN YANG
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISIONS: JC 7/10
 REVISIONS: DATE REVISIONS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	11	46
 REGISTERED CIVIL ENGINEER DATE 6-6-13					
3-3-14 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTM
 FUNCTIONAL SUPERVISOR JOHN YANG
 CHECKED BY
 CALCULATED/DESIGNED BY
 REVISOR BY ALBERT K YU
 DATE REVISED 7/10
 JC



- NOTES:**
- SEE CASE I FOR NOTES, LEGEND, SIGN PANEL, AND ABBREVIATIONS FOR THIS SHEET.
 - CLOSURES OF ONE MIXED FLOW TRAFFIC LANE ADJACENT TO HOV LANE SHOWN ON THIS SHEET. MULTIPLE MIXED FLOW LANE CLOSURES ARE SIMILAR.

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR HIGH OCCUPANCY
VEHICLE LANES AND ADJACENT FREEWAY LANES
BETWEEN INGRESS/EGRESS AREAS

CASE II
 NO SCALE

THD-8

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	12	46

6-6-13 DATE
 REGISTERED CIVIL ENGINEER
 3-3-14 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 ALBERT K. YU
 No. 43220
 Exp 3/31/14
 CIVIL
 STATE OF CALIFORNIA

NOTES:

- EXACT LOCATION OF PCMS WILL BE DETERMINED BY THE ENGINEER TO PROVIDE ADEQUATE VISIBILITY.
- PCMS MESSAGE DISPLAYED WILL BE APPROVED BY THE ENGINEER.
- PCMS MESSAGE SHALL BE CHANGED AT THE BEGINNING OF CURE PERIOD TO REFLECT NUMBER OF CLOSED LANES.

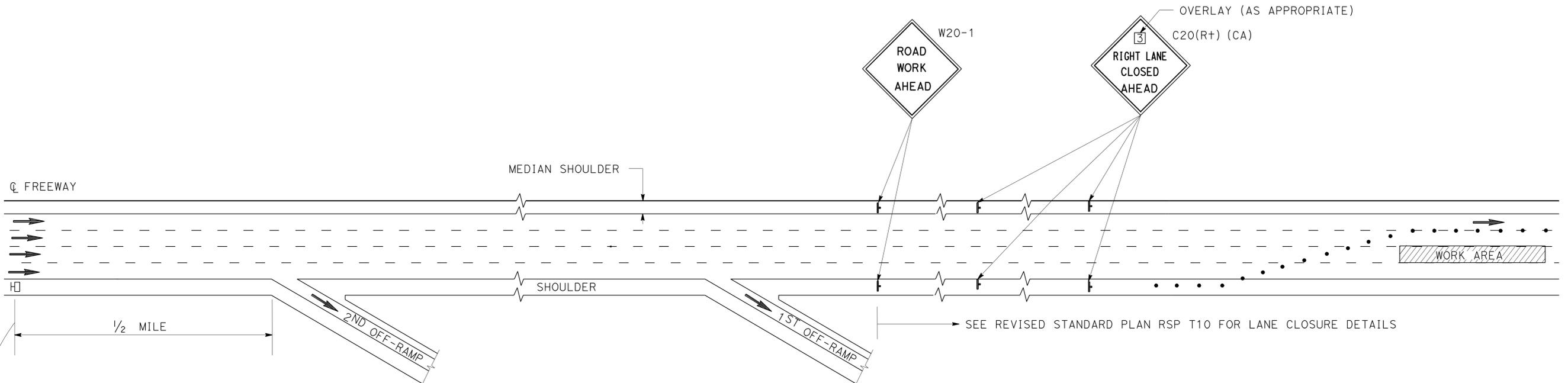
ABBREVIATIONS

PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 (CA) CALIFORNIA CODE

LEGEND

- CONE
- ↑ PORTABLE SIGN
- DIRECTION OF TRAVEL
- PCMS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR JOHN YANG
 CALCULATED/DESIGNED BY CHECKED BY
 ALBERT K YU JOCELYN C CHIANG
 REVISED BY DATE REVISED
 JC 7/10



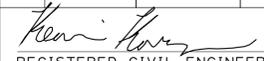
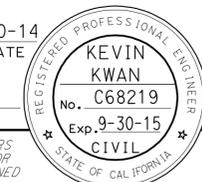
FIRST FLASH	X (NO OF LANES) RIGHT / LEFT	← 1ST LINE (TYPICAL)
	LANES	← 2ND LINE (TYPICAL)
	CLOSED	← 3RD LINE (TYPICAL)
SECOND FLASH	A ST	← LIMIT OF CLOSURE (TYPICAL)
	TO B DR	← LIMIT OF CLOSURE (TYPICAL)

WORDING FORMAT FOR PCMS MESSAGE

**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR CONCRETE PAVEMENT AND
 APPROACH SLAB REPLACEMENT**

NO SCALE

THD-9

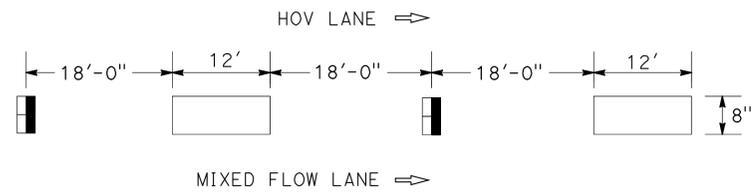
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	13	46
 REGISTERED CIVIL ENGINEER DATE 2-10-14					
3-3-14			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTE:

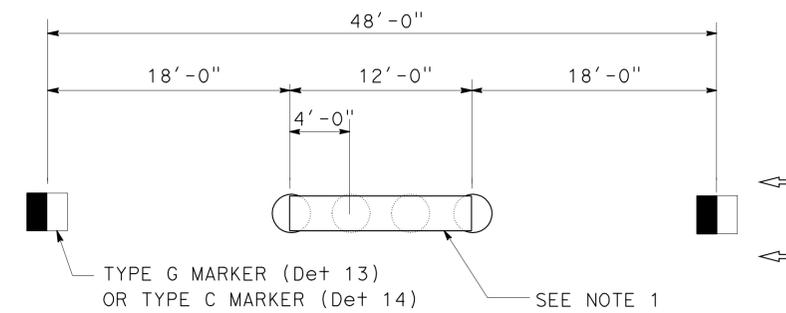
- PLACE 4" WIDE THERMOPLASTIC TRAFFIC STRIPE ON TOP OF TYPE A NON-REFLECTIVE MARKERS.

LEGEND:

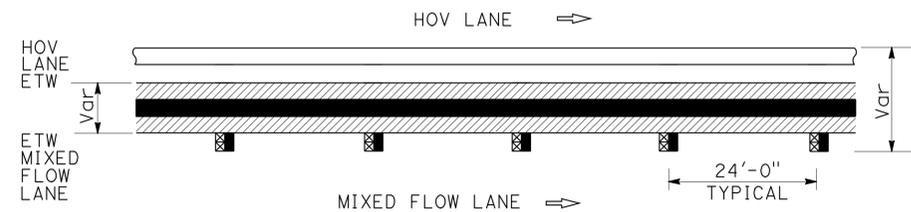
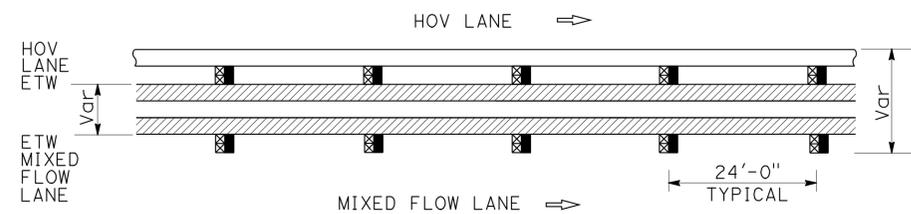
 3" PAINTED BLACK CONTRAST STRIPE



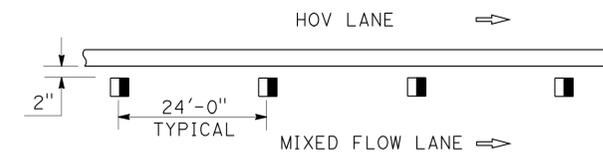
INGRESS/EGRESS STRIPING DETAIL



DETAIL 13/14 (MODIFIED)



HOV BUFFER STRIPING DETAILS



DETAIL 27B (MODIFIED)

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans MAINTENANCE ENGINEERING	HAMID SAADATNEJADI	DINESH BHAVSAR	DINESH BHAVSAR
		CHECKED BY	DATE
		KEVIN KWAN	KEVIN KWAN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	14	46

2-10-14
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE

KEVIN KWAN
 No. C68219
 Exp. 9-30-15
 CIVIL

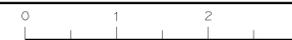
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PAVEMENT DELINEATION QUANTITIES

LOCATION	ROUTE	POST MILE	BRIDGE No.	DESCRIPTION	THERMOPLASTIC TRAFFIC STRIPE											PAINT TRAFFIC STRIPE (2-COAT)				
					Det 8	Det 13/14 (Mod)	Det 21	Det 25	Det 25A	Det 27B	Det 27B (Mod)	HOV BUFFER	Det 36	Det 38B	Det 37		INGRESS/EGRESS			
					4" (BROKEN 17-7) (WHITE)	4" (BROKEN 36-12) (WHITE)	4" (DOUBLE YELLOW)	4" (YELLOW)	4" (YELLOW)	4" (WHITE)	4" (WHITE)	4" (DOUBLE YELLOW)	4" (WHITE)	8" (WHITE)	8" (WHITE)		8" (BROKEN 12-3) (WHITE)	8" (BROKEN 36-12) (WHITE)	3" PAINTED BLACK	
					LF															
①	101	2.86	53-0617	ALVARADO St SEPARATION		690		230												
②		3.63	53-0073	VENDOME St UC		822		274					274							
③		3.76	53-0613	SILVER LAKE Blvd UC		1,860		620										137		
⑤		6.15	53-0731	WILTON PLACE OC	682		682													
⑥		6.41	53-0732K	VAN NESS Ave ON-RAMP UC					317	317	317									
⑦		6.91	53-0679	GOWER St UC		984		328		492			164							
⑧		7.04	53-0865K	GOWER St OFF-RAMP					292	292										292
⑨		17.51	53-1103L	HASKELL Ave UC		312		78										78		
⑩		17.51	53-1103R	HASKELL Ave UC		288				72		144	72					72		
⑪		19.22	53-1052	BALBOA Blvd UC		944		236		236										
⑬		134	0.01	53-1493S	RIVERSIDE Dr OFF-RAMP OC		703			703	703									
⑭	0.35		53-1272	VINELAND Ave UC		1,130		376		376			188				188			
⑮	0.86		53-1274	CAHUENGA Blvd UC		835		306		306		612	306				83		306	
⑳	R5.47		53-1074R	ROUTE 134/5 SEPARATION		921			307	307										
㉒	R6.57		53-1746	PACIFIC Ave UC		730		292				584	292							292
SUBTOTAL					682	10,219	682	2,740	1,619	3,101	317	1,340	670	438	188	233	325	890		
TOTAL					682	10,219				10,469				626		233	325	890		

PAVEMENT DELINEATION QUANTITIES

PDQ-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	15	46

2-10-14
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE

KEVIN KWAN
 No. C68219
 Exp. 9-30-15
 CIVIL

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

PAVEMENT DELINEATION QUANTITIES

LOCATION	ROUTE	POST MILE	BRIDGE No.	DESCRIPTION	PAVEMENT MARKER								THERMOPLASTIC PAVEMENT MARKING			CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE)	CHANNELIZER (SURFACE MOUNTED)		
					NON-REFLECTIVE	RETROREFLECTIVE							4" DOUBLE YELLOW TYPE H	8" (BROKEN 36-12) TYPE G	CHEVRON			DIAGONAL	WORDS/SYMBOL
					TYPE A	TYPE G/C	TYPE H	TYPE H	TYPE G	TYPE G	TYPE G/C	TYPE G							
					Det+ 13/14 (Mod)	Det+ 13/14 (Mod)	Det+ 25	Det+ 25A	Det+ 27B (Mod)	Det+ 36	Det+ 37	Det+ 38B							
					EA								SQFT			EA			
①	101	2.86	53-0617	ALVARADO St SEPARATION	58	16	7												
②		3.63	53-0073	VENDOME St UC	70	19	8			14									
③		3.76	53-0613	SILVER LAKE Blvd UC	156	40	15						8						
⑤		6.15	53-0731	WILTON PLACE OC															
⑥		6.41	53-0732K	VAN NESS Ave ON-RAMP UC				15	15							110			
⑦		6.91	53-0679	GOWER St UC	83	23	9			9				64	30				
⑧		7.04	53-0865K	GOWER St OFF-RAMP				14							40	53			
⑨		17.51	53-1103L	HASKELL Ave UC	26	9	4				8								
⑩		17.51	53-1103R	HASKELL Ave UC	24	8					6		7				5	5	
⑪		19.22	53-1052	BALBOA Blvd UC	80	22	7												
⑬		134	0.01	53-1493S	RIVERSIDE Dr OFF-RAMP OC	60	17		31										
⑭	0.35		53-1272	VINELAND Ave UC	96	26	10				8	18			62				
⑮	0.86		53-1274	CAHUENGA Blvd UC	70	20	8						14						
⑳	R5.47		53-1074R	ROUTE 134/5 SEPARATION	78	21		14							93				
㉒	R6.57		53-1746	PACIFIC Ave UC	61	17	8						13						
SUBTOTAL					862	238	76	74	15	23	22	18	34	18	64	163	225	5	5
TOTAL					862					518					452			5	5

**PAVEMENT DELINEATION QUANTITIES
PDQ-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI

DESIGNED BY: DINESH BHAVSAR

CHECKED BY: KEVIN KWAN

REVISOR: KEVIN KWAN

DATE REVISOR: 2-10-14

DATE REVISION: 3-3-14

DATE PLOTTED: 03-03-14

TIME PLOTTED: 10:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	16	46

2-10-14
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE

KEVIN KWAN
 No. C68219
 Exp. 9-30-15
 CIVIL

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

PAVEMENT DELINEATION QUANTITIES																				
LOCATION	ROUTE	POST MILE	BRIDGE No.	DESCRIPTION	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)				REMOVE THERMOPLASTIC TRAFFIC STRIPE								REMOVE PAINTED TRAFFIC STRIPE			
					Det 21	Det 25	Det 25A	4" (DOUBLE YELLOW)	Det 8	Det 13/14 (Mod)	Det 27B	Det 27B (Mod)	Det 36	Det 38B	Det 37	4" (WHITE)		8" (BROKEN 12-3) (WHITE)	8" (BROKEN 36-12) (WHITE)	3" PAINTED BLACK
					4" (DOUBLE YELLOW)	4" (YELLOW)	4" (YELLOW)		4" (DOUBLE YELLOW)	4" (BROKEN 17-7) (WHITE)	4" (BROKEN 36-12) (WHITE)	4" (WHITE)	4" (WHITE)	8" (WHITE)	8" (WHITE)					
LF																				
①	101	2.86	53-0617	ALVARADO St SEPARATION		230				173										
②		3.63	53-0073	VENDOME St UC		274				206			598							
③		3.76	53-0613	SILVER LAKE Blvd UC		620				465							69			
⑤		6.15	53-0731	WILTON PLACE OC	682				199											
⑥		6.41	53-0732K	VAN NESS Ave ON-RAMP UC			317				317	317								
⑦		6.91	53-0679	GOWER St UC			328			246	492		328							
⑧		7.04	53-0865K	GOWER St OFF-RAMP			292				292						292			
⑨		17.51	53-1103L	HASKELL Ave UC			78				78				32					
⑩		17.51	53-1103R	HASKELL Ave/RIVER uc				144			72	72			30	72				
⑪		19.22	53-1052	BALBOA Blvd UC			236				236	236								
⑬		134	0.01	53-1493S	RIVERSIDE Dr OFF-RAMP OC			703			176	703								
⑭	0.35		53-1272	VINELAND Ave UC			376				283	376		376		94				
⑮	0.86		53-1274	CAHUENGA Blvd UC			306	612			209	306			33	306	306			
⑳	R5.47		53-1074R	ROUTE 134/5 SEPARATION				307			230	307								
㉒	R6.57		53-1746	PACIFIC Ave UC			292	584			575				292		292			
SUBTOTAL					682	2,740	1,619	1,340	199	2,949	3,101	317	926	376	95	670	163	890		
TOTAL					6,381				8,796								890			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI
 CALCULATED/DESIGNED BY: KEVIN KWAN
 CHECKED BY: KEVIN KWAN
 REVISED BY: KEVIN KWAN
 DATE REVISED:

USERNAME => s122436
 DGN FILE => 71w650nc003.dgn

PAVEMENT DELINEATION QUANTITIES PDQ-3

LAST REVISION DATE PLOTTED => 14-MAR-2014
 03-03-14 TIME PLOTTED => 10:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	17	46

2-10-14
 REGISTERED CIVIL ENGINEER DATE
 3-3-14
 PLANS APPROVAL DATE

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

CALCULATED/DESIGNED BY: DINESH BHAVSAR
 CHECKED BY: KEVIN KWAN

FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI

REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 20, 22

REVISOR: DINESH BHAVSAR
 DATE: 7/2/2010

PAVEMENT DELINEATION QUANTITIES															REMOVE THERMOPLASTIC PAVEMENT MARKING			REMOVE CHANNELIZERS		
LOCATION	ROUTE	POST MILE	BRIDGE No.	DESCRIPTION	REMOVE PAVEMENT MARKER										CHEVRON	DIAGONAL	WORDS/SYMBOL			
					Det 13/14 (Mod) TYPE A (NON-REFLECTIVE)	Det 13/14 (Mod) TYPE G/C (RETROREFLECTIVE)	Det 25 TYPE H (RETROREFLECTIVE)	Det 25A TYPE H (RETROREFLECTIVE)	Det 27B (Mod) TYPE D (RETROREFLECTIVE)	Det 36 TYPE G (RETROREFLECTIVE)	Det 37 TYPE G/C (RETROREFLECTIVE)	Det 38B TYPE G (RETROREFLECTIVE)	4" DOUBLE YELLOW TYPE H	8" (BROKEN 36-12) TYPE G					EA	SQFT
①	101	2.86	53-0617	ALVARADO S+ SEPARATION	58	16	7													
②		3.63	53-0073	VENDOME S+ UC	70	19	8			14										
③		3.76	53-0613	SILVER LAKE Blvd UC	156	40	15							8						
⑤		6.15	53-0731	WILTON PLACE OC																
⑥		6.41	53-0732K	VAN NESS Ave ON-RAMP UC				15	15									110		
⑦		6.91	53-0679	GOWER S+ UC	83	23	9			9					64	30				
⑧		7.04	53-0865K	GOWER S+ OFF-RAMP				14								40	53			
⑨		17.51	53-1103L	HASKELL Ave UC	26	9	4				8									
⑩		17.51	53-1103R	HASKELL Ave uc	24	8					6		7							5
⑪		19.22	53-1052	BALBOA Blvd UC	80	22	7													
⑬	134	0.01	53-1493S	RIVERSIDE Dr OFF-RAMP OC	60	17		31												
⑭		0.35	53-1272	VINELAND Ave UC	96	26	10				8	18		10			62			
⑮		0.86	53-1274	CAHUENGA Blvd UC	70	20	8						14							
⑳		R5.47	53-1074R	ROUTE 134/5 SEPARATION	78	21		14								93				
㉒		R6.57	53-1746	PACIFIC Ave UC	61	17	8						13							
SUBTOTAL					862	238	76	74	15	23	22	18	34	18	64	163	225	5		
TOTAL					1380										452			5		

PAVEMENT DELINEATION QUANTITIES

PDQ-4

LAST REVISION DATE PLOTTED => 14-MAR-2014 10:38

	M	
Maint	MAINTENANCE	
Max	MAXIMUM	
MB	METAL BEAM	
MBB	METAL BEAM BARRIER	
MBGR	METAL BEAM GUARD RAILING	
Med	MEDIAN	
MGS	MIDWEST GUARDRAIL SYSTEM	
MH	MANHOLE	
Min	MINIMUM	
Misc	MISCELLANEOUS	
Misc I & S	MISCELLANEOUS IRON AND STEEL	
Mkr	MARKER	
Mod	MODIFIED, MODIFY	
Mon	MONUMENT	
MP	METAL PLATE	
MPGR	METAL PLATE GUARD RAILING	
MR	MOVEMENT RATING	
MSE	MECHANICALLY STABILIZED EMBANKMENT	
Mt	MOUNTAIN, MOUNT	
MtI	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	N	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	O	
Obir	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	P	
p	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm MtI	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	Q	
Qty	QUANTITY	
	R	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
SL	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

	T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	U
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	V
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	W
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
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
07	LA	101, 134	Var	18	46

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 3-3-14

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

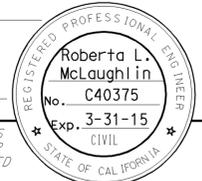
NO SCALE

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

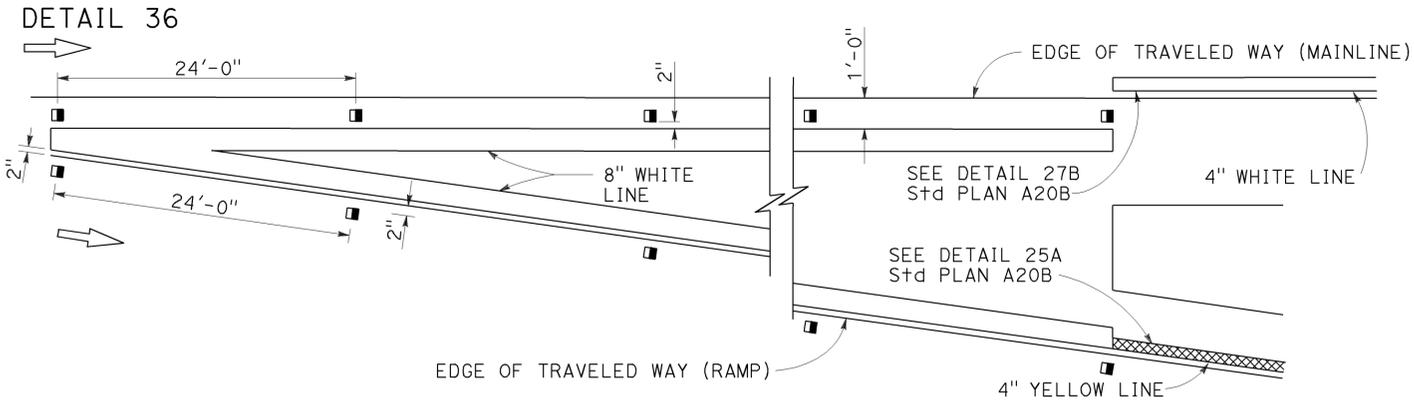
2010 REVISED STANDARD PLAN RSP A10B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	19	46

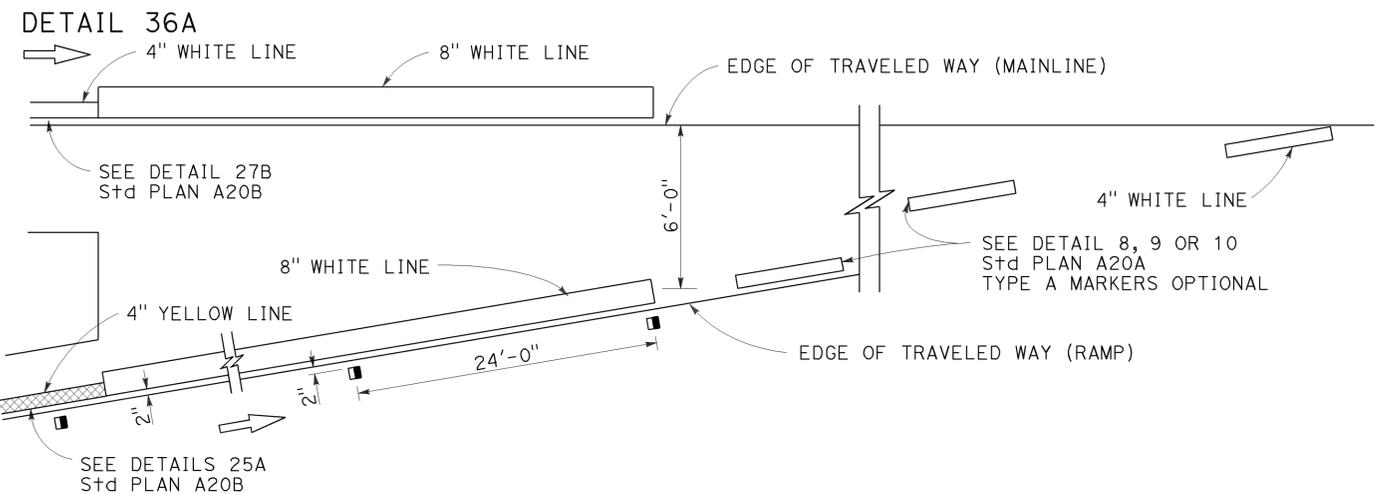
REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



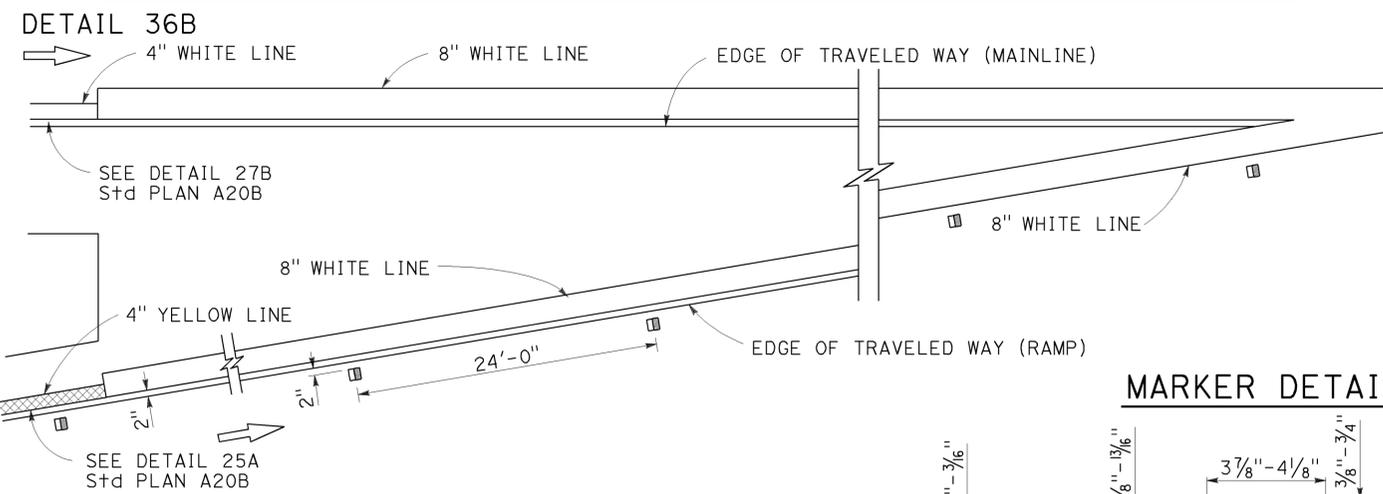
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



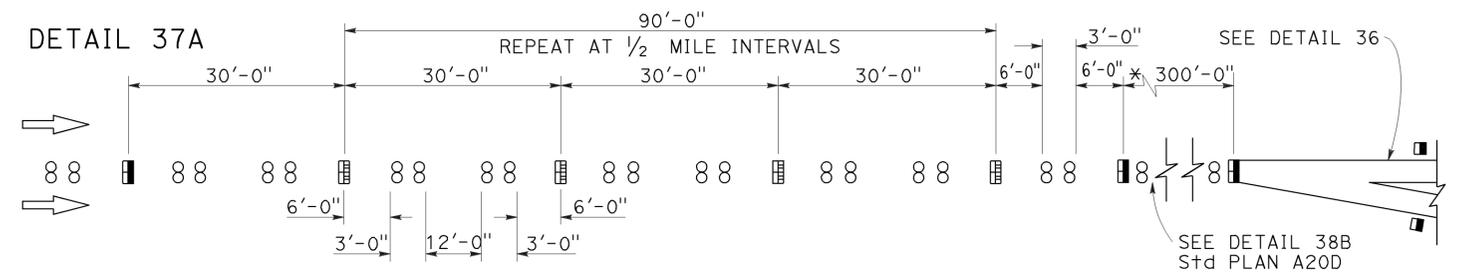
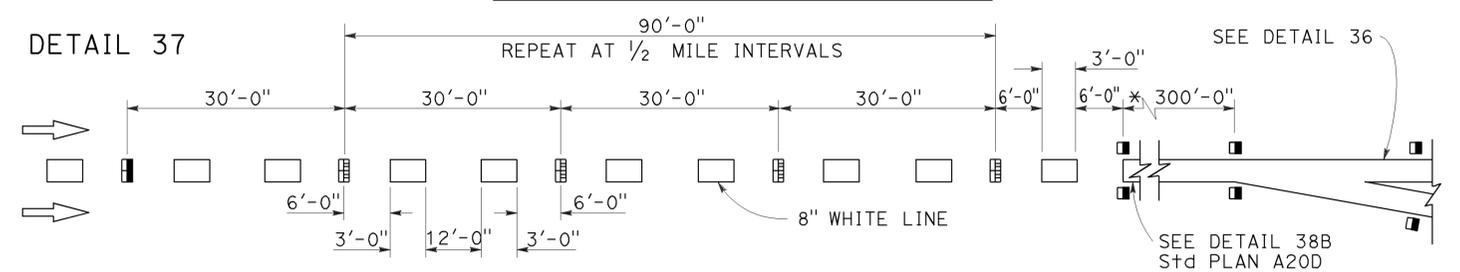
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

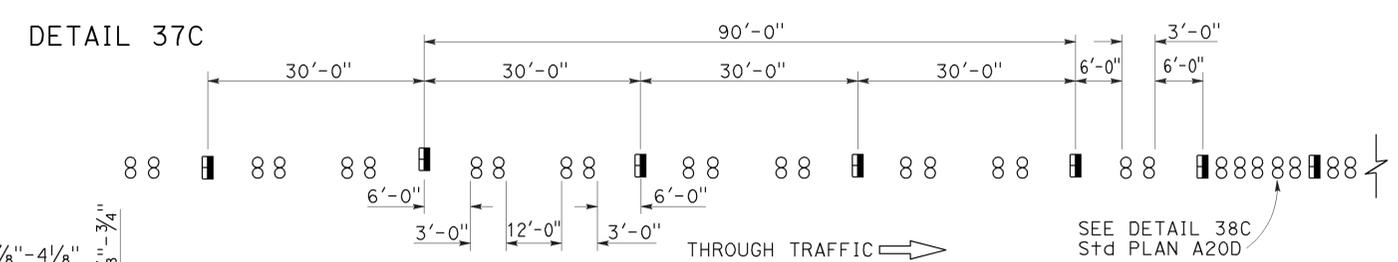
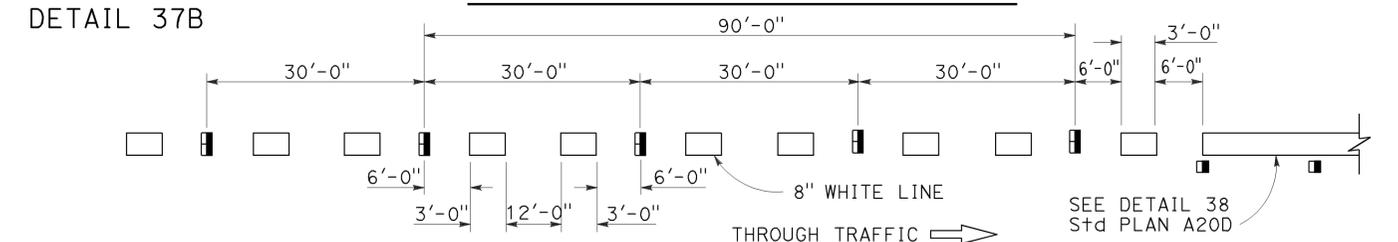


LANE DROP AT EXIT RAMPS



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

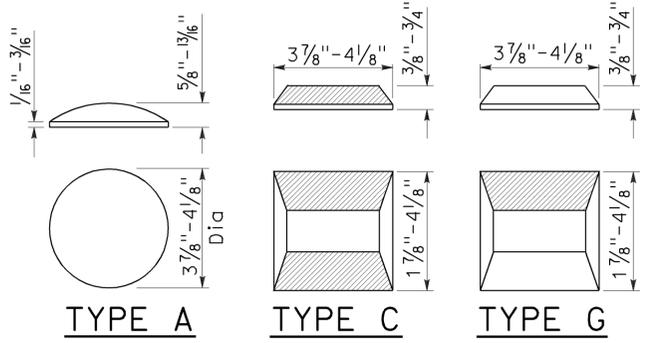
LANE DROP AT INTERSECTIONS



MARKER DETAILS

LEGEND:

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



RETROREFLECTIVE FACE

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

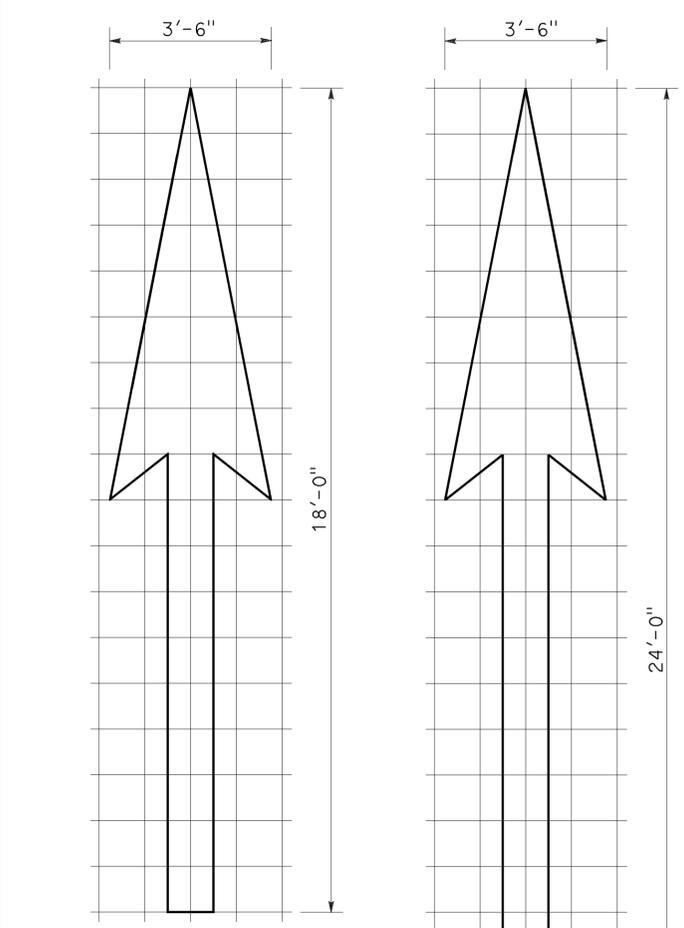
RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

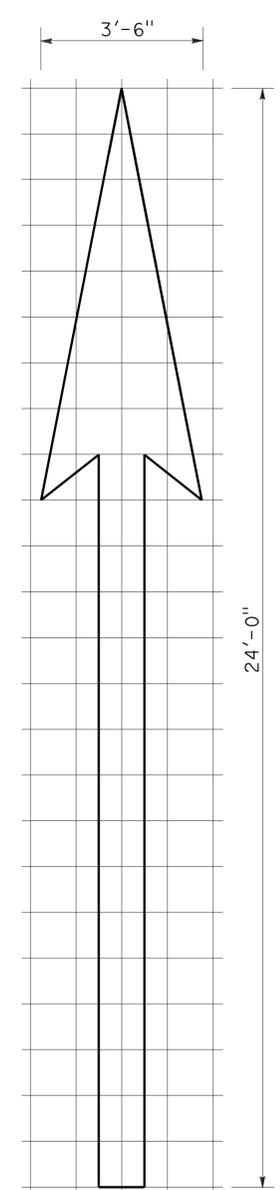
2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	20	46
<i>Roberta L. McLaughlin</i> REGISTERED CIVIL ENGINEER April 20, 2012 PLANS APPROVAL DATE <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
REGISTERED PROFESSIONAL ENGINEER Roberta L. McLaughlin No. C40375 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA					

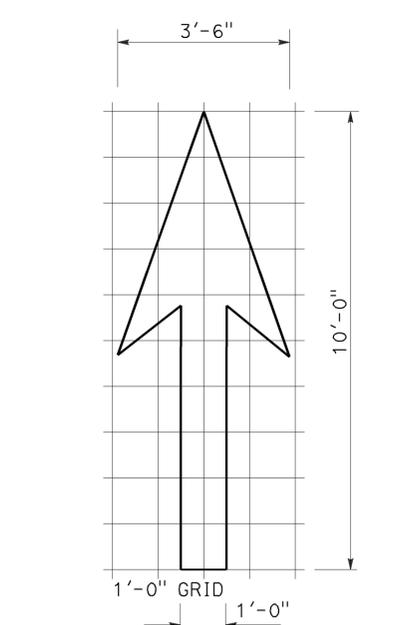
TO ACCOMPANY PLANS DATED 3-3-14



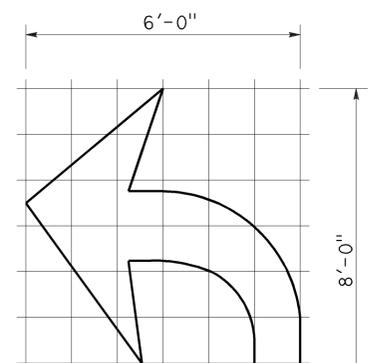
TYPE I 18'-0" ARROW
A=25 ft²



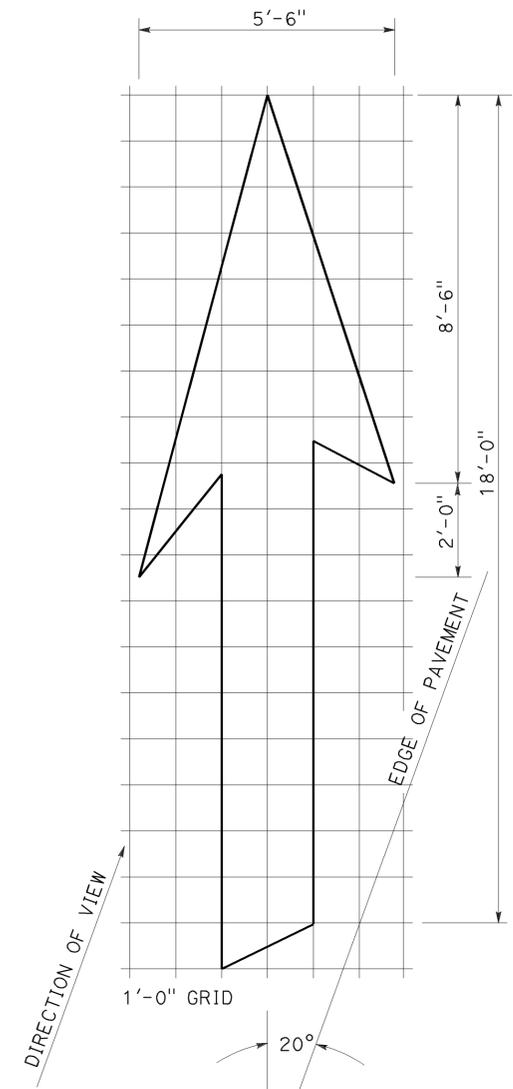
TYPE I 24'-0" ARROW
A=31 ft²



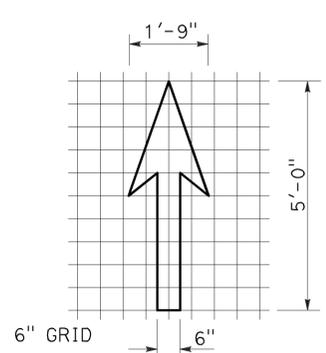
TYPE I 10'-0" ARROW
A=14 ft²



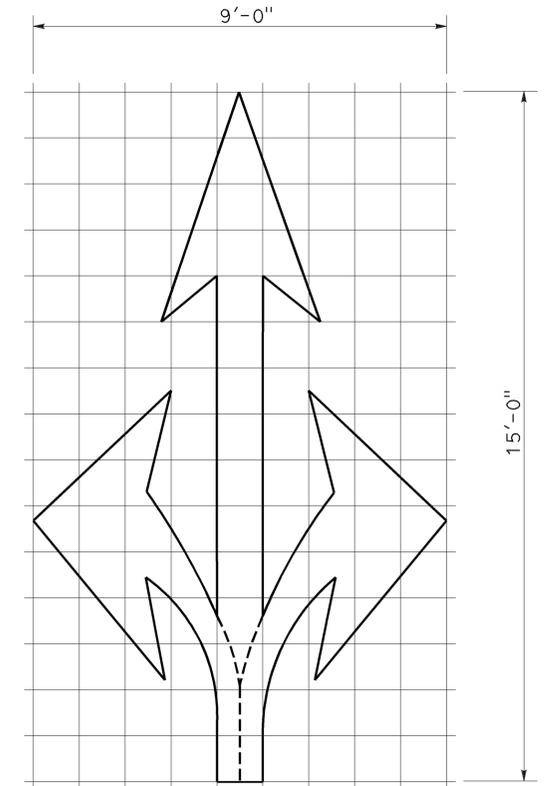
TYPE IV (L) ARROW
A=15 ft²
(For Type IV (R) arrow, use mirror image)



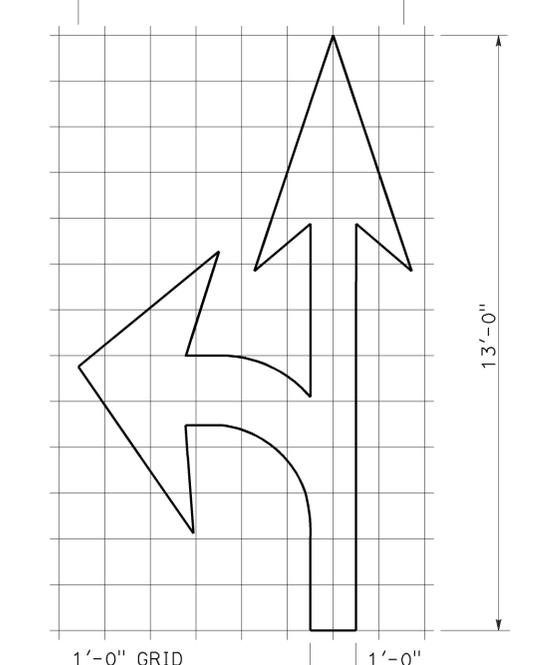
TYPE VI ARROW
A=42 ft²
Right lane drop arrow
(For left lane, use mirror image)



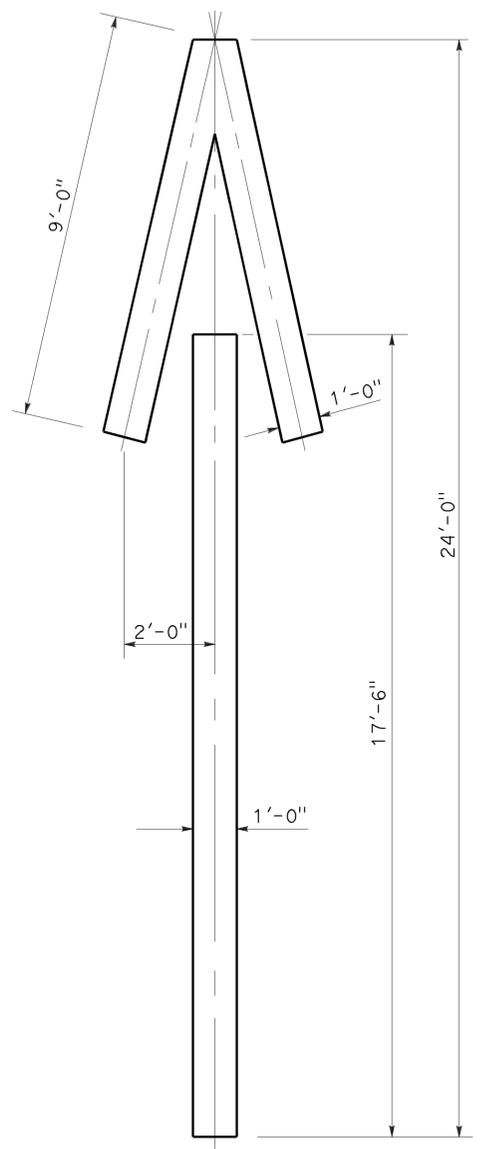
BIKE LANE ARROW
A=3.5 ft²



TYPE VIII ARROW
A=36 ft²



TYPE VII (L) ARROW
A=27 ft²
(For Type VII (R) arrow, use mirror image)



TYPE V ARROW
A=33 ft²

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

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

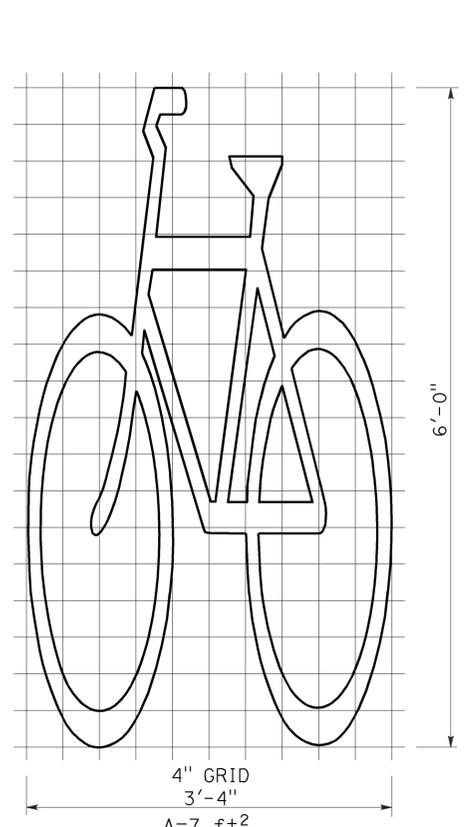
REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

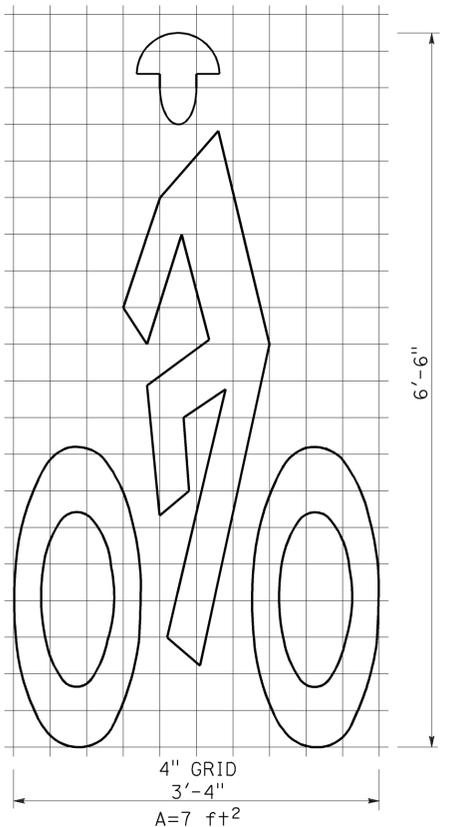
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	21	46

Robert L. McLaughlin
 REGISTERED CIVIL ENGINEER
 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.

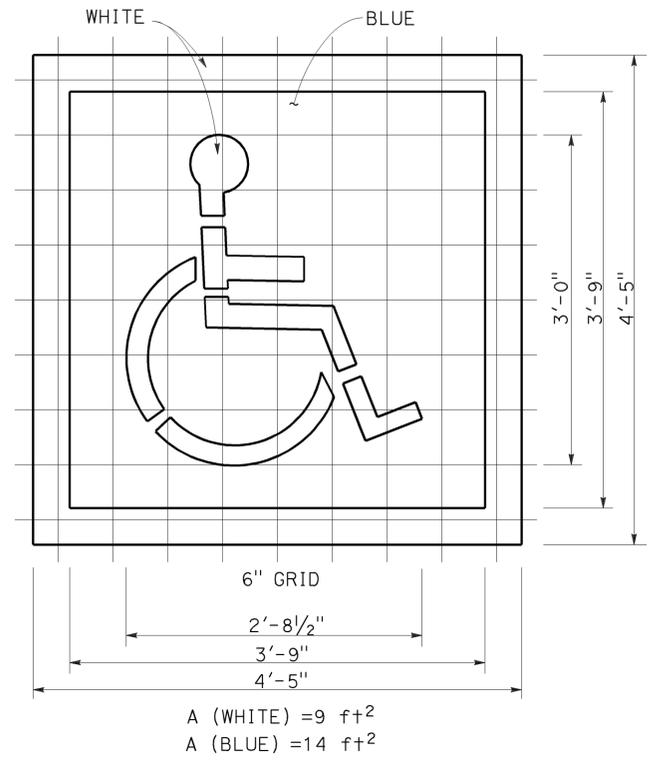
NOTE: TO ACCOMPANY PLANS DATED 3-3-14
 Minor variations in dimensions may be accepted by the Engineer.



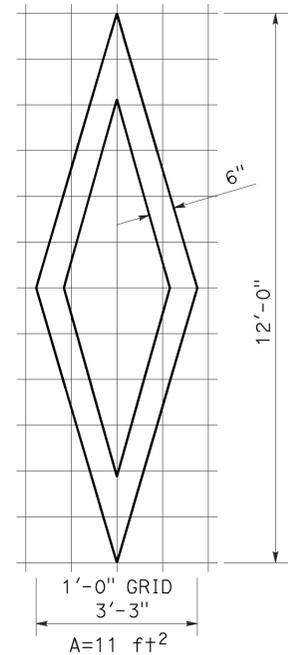
BIKE LANE SYMBOL WITHOUT PERSON



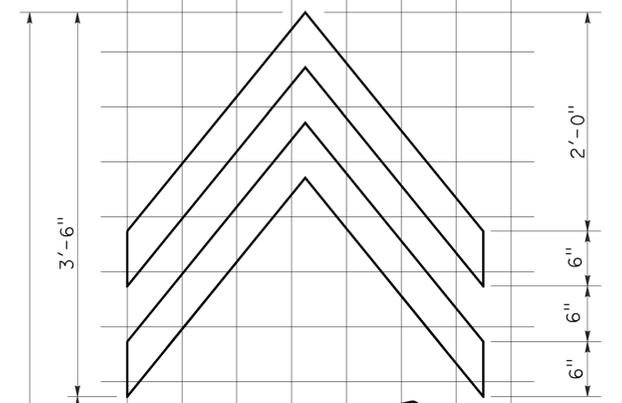
BIKE LANE SYMBOL WITH PERSON



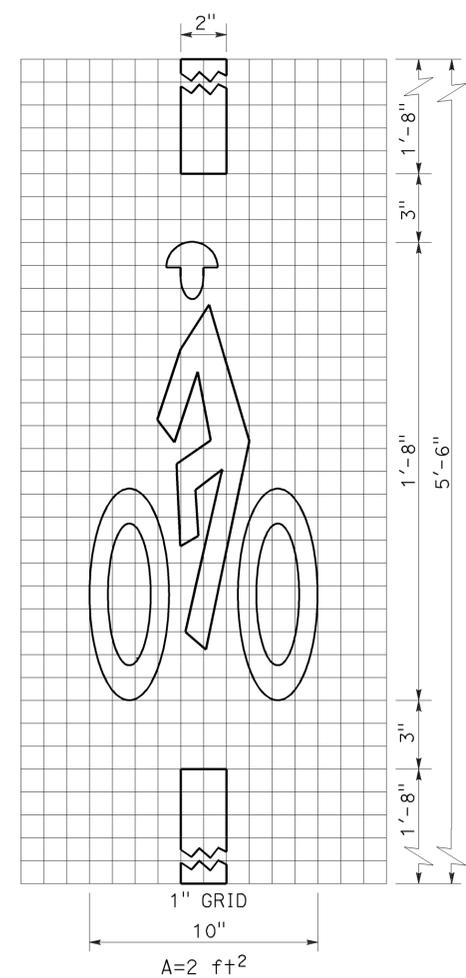
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



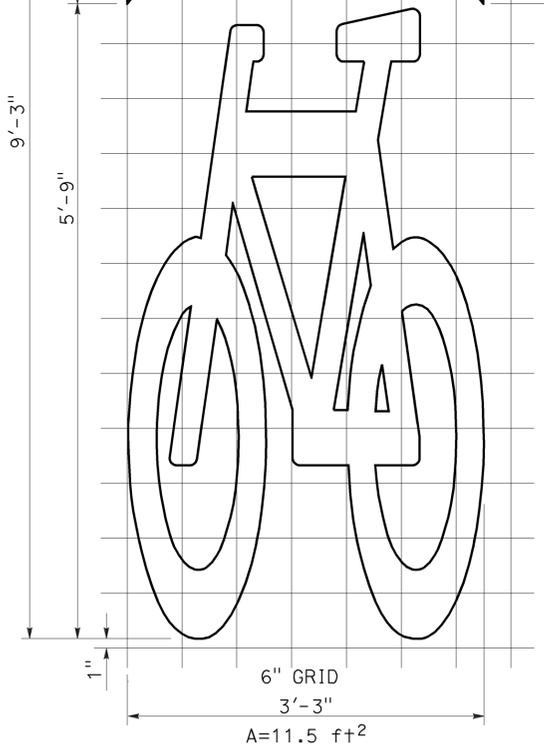
DIAMOND SYMBOL



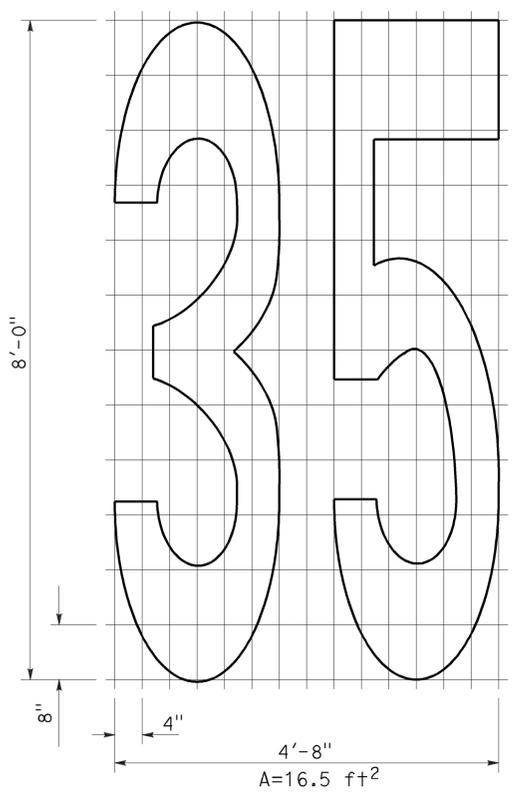
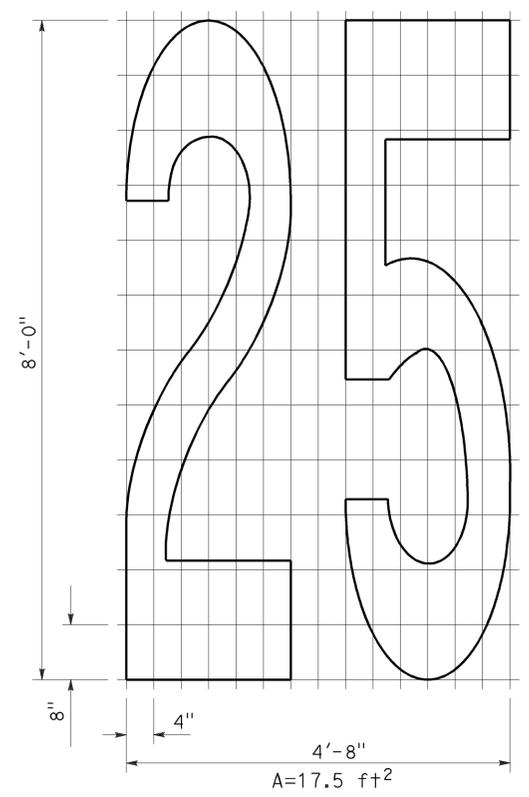
SHARED ROADWAY BICYCLE MARKING



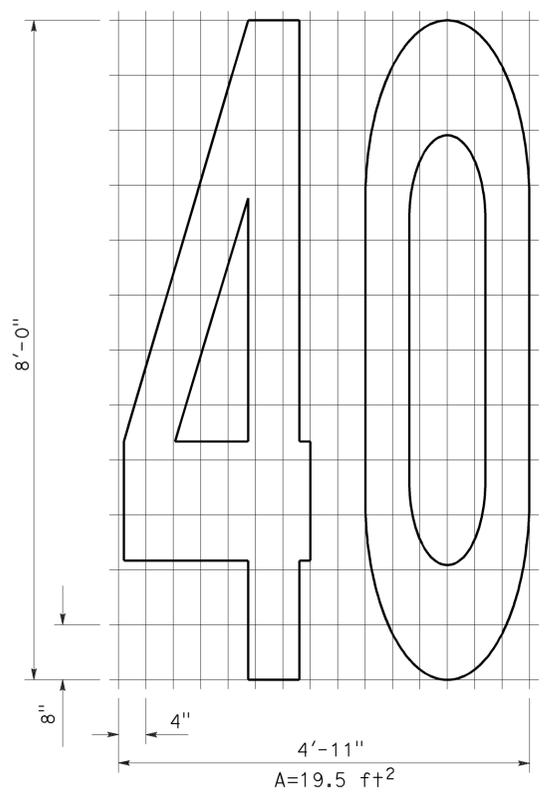
BICYCLE LOOP DETECTOR SYMBOL



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



NUMERALS



A=19.5 ft²

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

2010 REVISED STANDARD PLAN RSP A24C

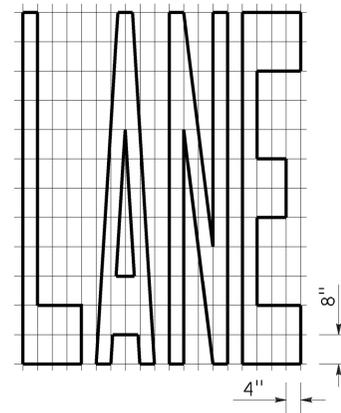
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	22	46

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

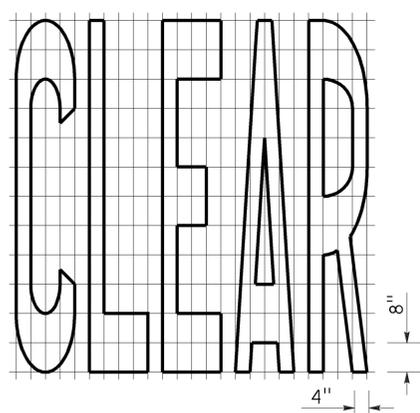
July 20, 2012
 PLANS APPROVAL DATE

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

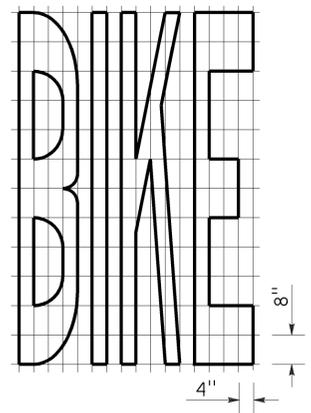
TO ACCOMPANY PLANS DATED 3-3-14



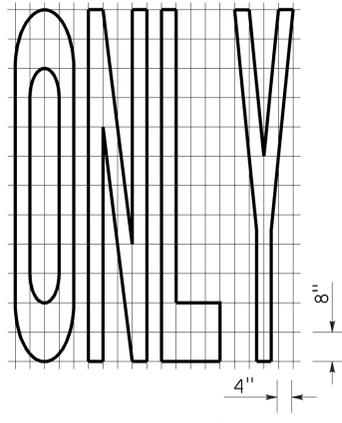
A=24 ft²



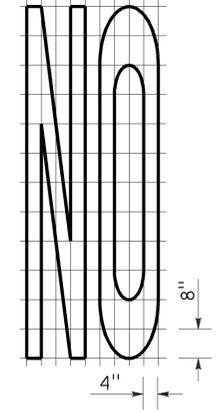
A=27 ft²



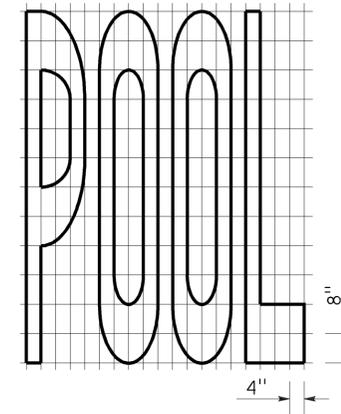
A=21 ft²



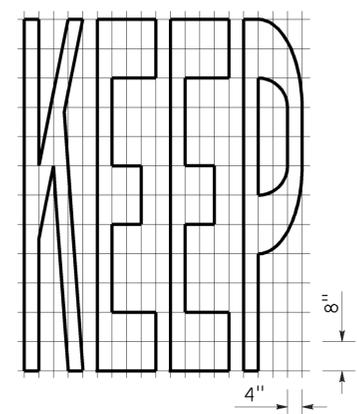
A=22 ft²



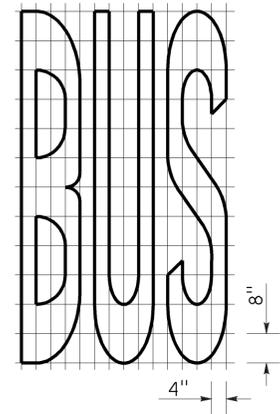
A=14 ft²



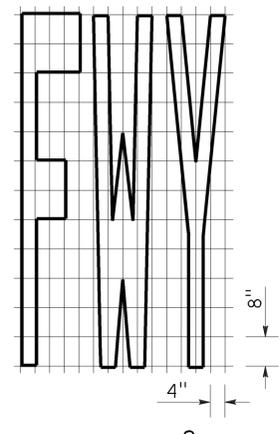
A=23 ft²



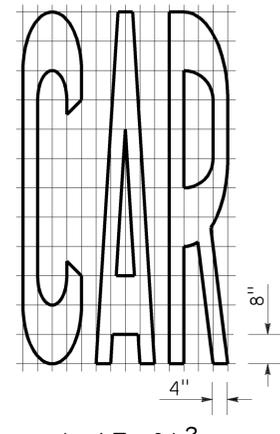
A=24 ft²



A=20 ft²

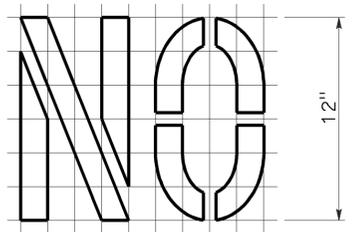


A=16 ft²



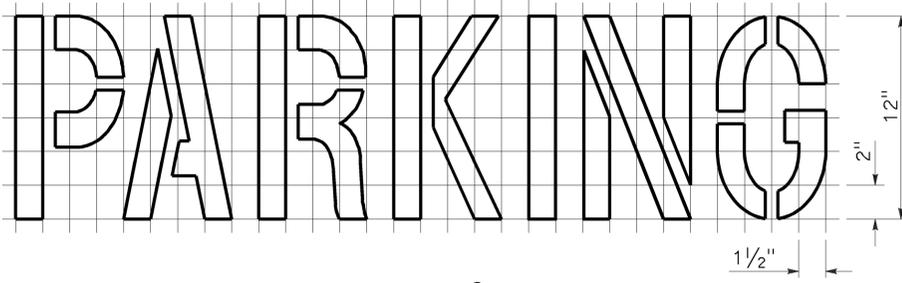
A=17 ft²

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



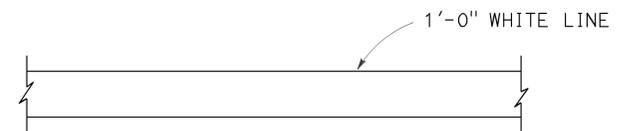
A=2 ft²

See Notes 6 and 7

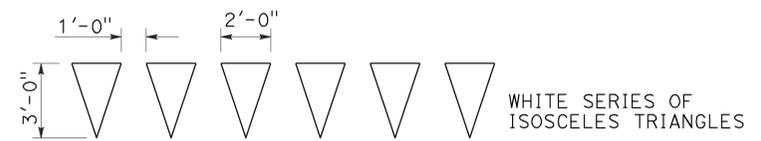


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**

NO SCALE

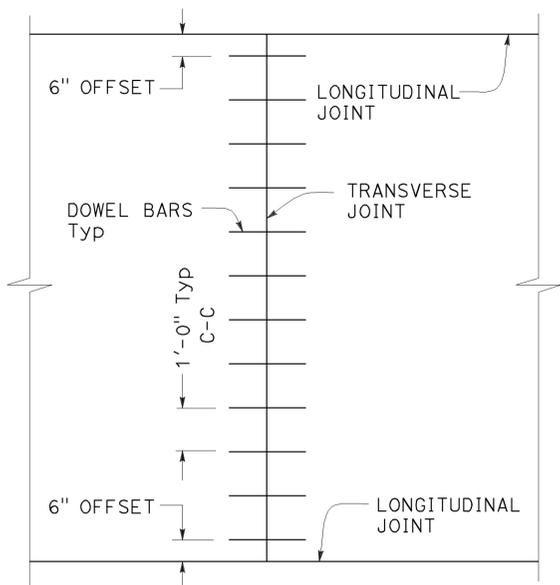
RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

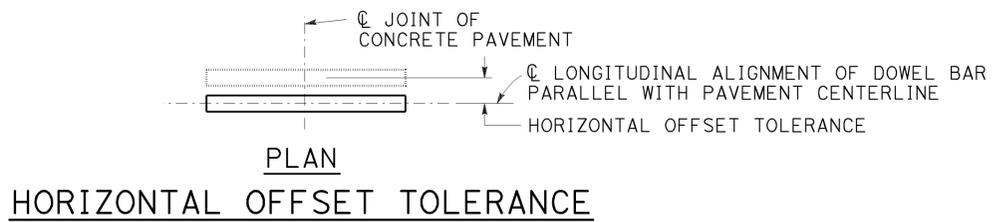
2010 REVISED STANDARD PLAN RSP A24E

TO ACCOMPANY PLANS DATED 3-3-14

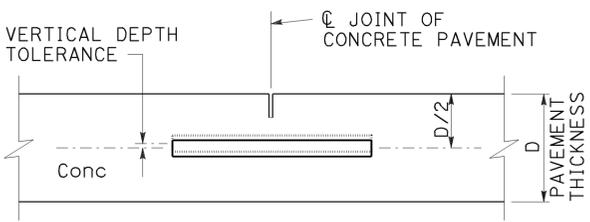
- NOTES:**
- See Revised Standard Plan RSP P1 for typical dowel bar placement and locations.
 - Where fresh concrete pavement is placed against new concrete or existing concrete pavement, rounding the corner of the existing concrete pavement is not required.
 - May also use 3/4" Dia dowel bars 2'-4" ± 1/4" in length. Center the length of dowel bars at the centerline of longitudinal joint.



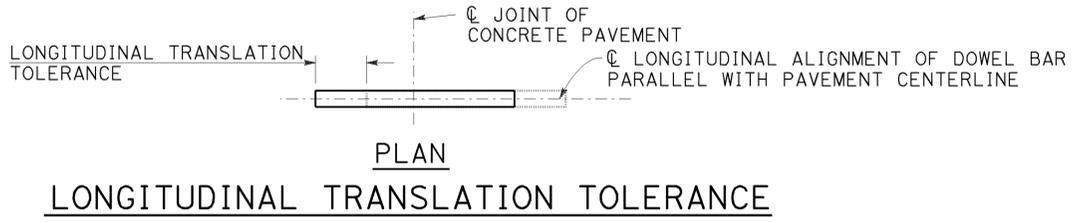
**TRANSVERSE JOINT
DOWEL BAR LAYOUT**



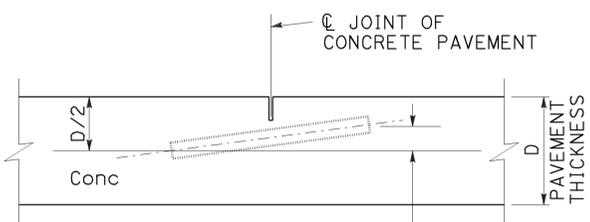
**PLAN
HORIZONTAL OFFSET TOLERANCE**



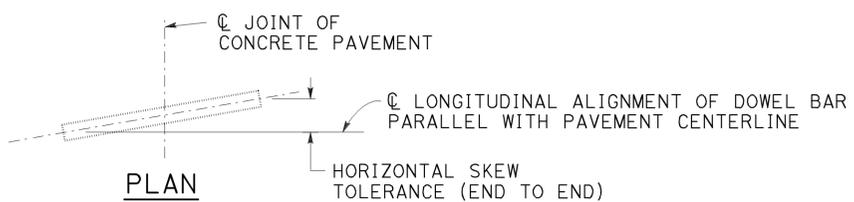
**ELEVATION
VERTICAL DEPTH TOLERANCE**



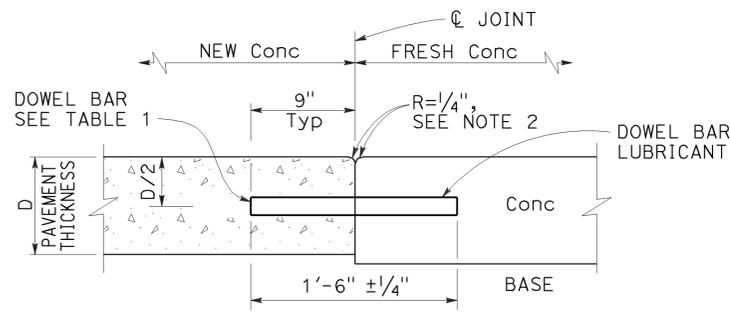
**PLAN
LONGITUDINAL TRANSLATION TOLERANCE**



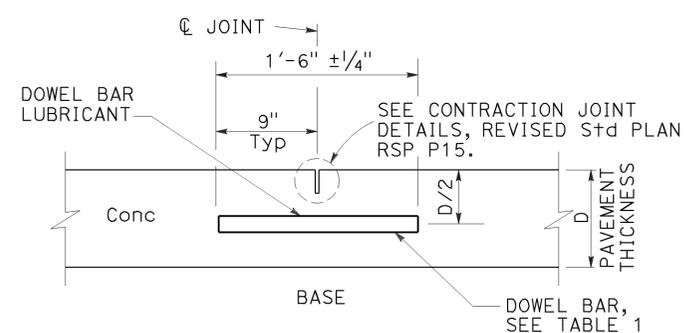
**ELEVATION
VERTICAL SKEW TOLERANCE**



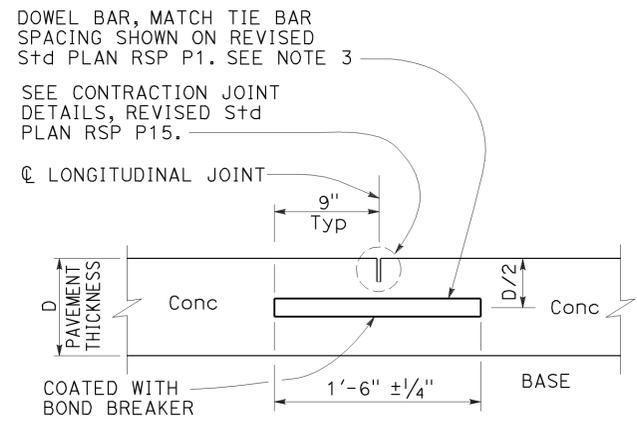
**PLAN
HORIZONTAL SKEW TOLERANCE**



**TRANSVERSE
CONSTRUCTION JOINT DETAIL**



TRANSVERSE CONTRACTION JOINT



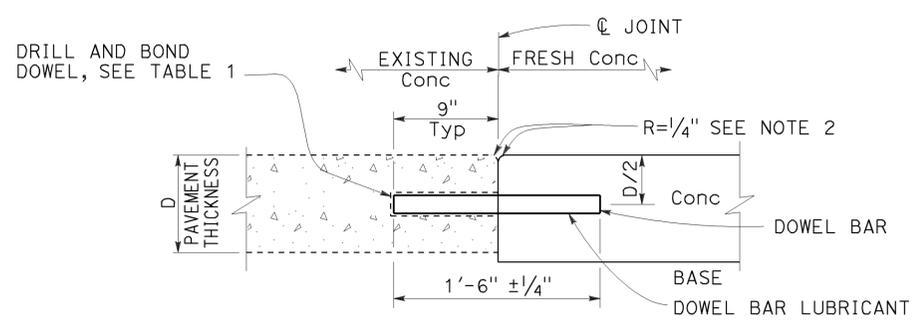
**LONGITUDINAL CONTRACTION
JOINT WITH DOWEL BARS**
See Revised Std Plan RSP P18

TABLE 1

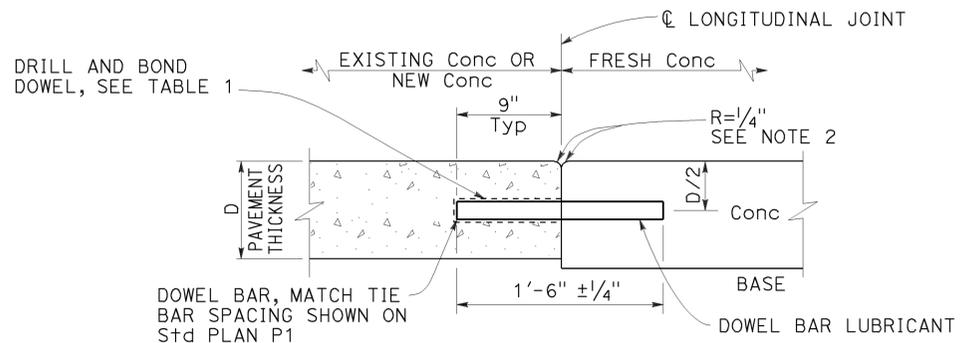
DOWEL BAR DIAMETER TABLE

PAVEMENT THICKNESS	0.65'	> 0.65' - 0.85'	> 0.85'
MINIMUM DOWEL * BAR DIAMETER	1"	1 1/4"	1 1/2"

* The drilled hole diameter must be 1/8" to 3/16" larger than the bar diameter.



**TRANSVERSE CONSTRUCTION JOINT
FOR EXISTING CONCRETE PAVEMENT**



**LONGITUDINAL CONSTRUCTION JOINT
WITH DOWEL BARS**
See Revised Std Plan RSP P18

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT
 DOWEL BAR
 DETAILS**
 NO SCALE

RSP P10 DATED JULY 19, 2013 SUPERSEDES RSP P10 DATED APRIL 20, 2012 AND STANDARD PLAN P10 DATED MAY 20, 2011 - PAGE 131 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP P10

TO ACCOMPANY PLANS DATED 3-3-14

TABLE 1

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

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

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

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

TABLE 2

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

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

** - Longitudinal buffer space or flagger station spacing

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

TABLE 3

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

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

NO SCALE

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

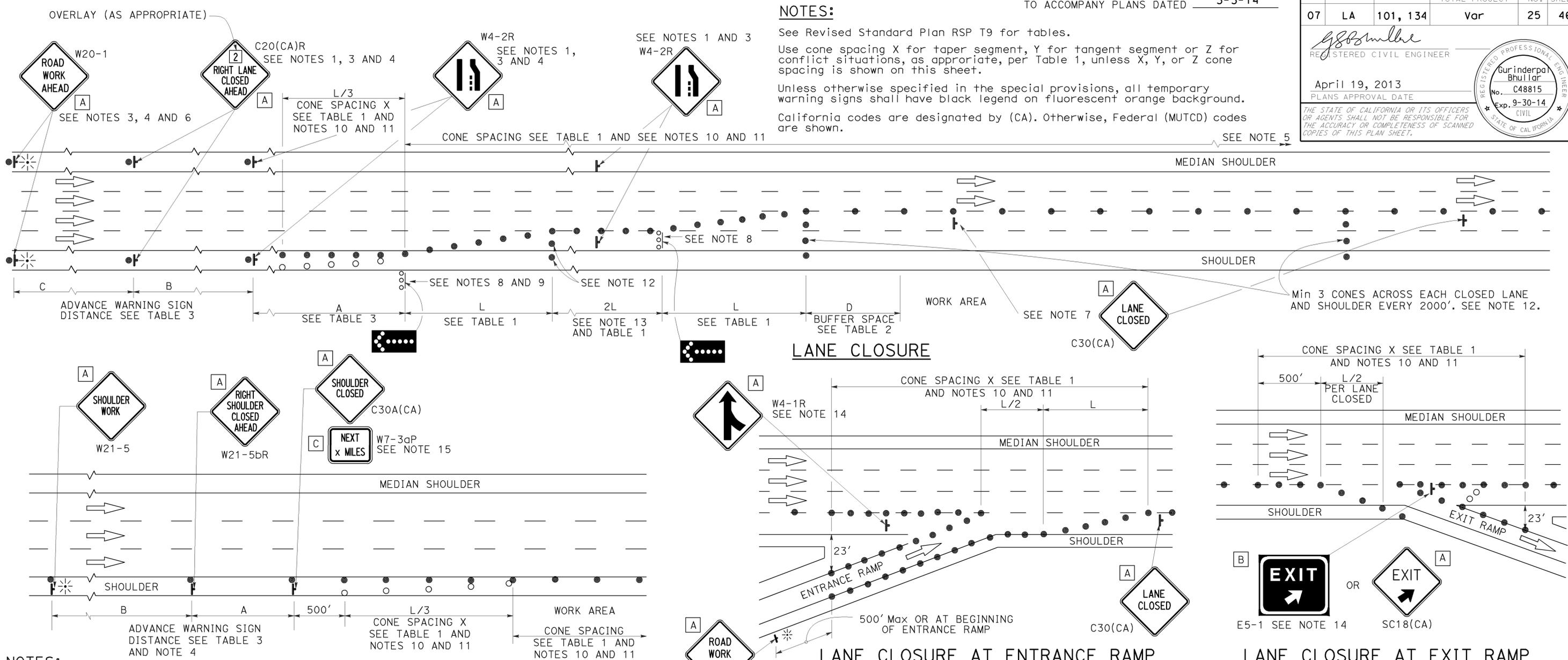
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	25	46

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.



NOTES:

See Revised Standard Plan RSP T9 for tables.

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

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

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

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

- SHOULDER CLOSURE**
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA)L and W4-2L signs shall be used.
 7. Place a C30(CA) sign every 2000' throughout length of lane closure.
 8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	26	46

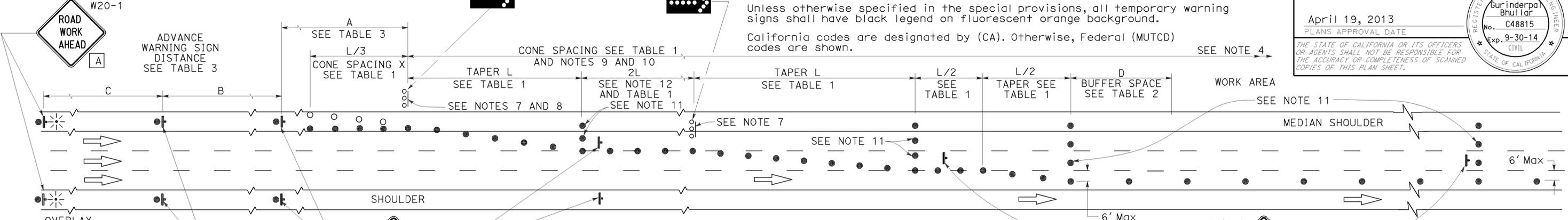
REGISTERED CIVIL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

April 19, 2013
 PLANS APPROVAL DATE

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

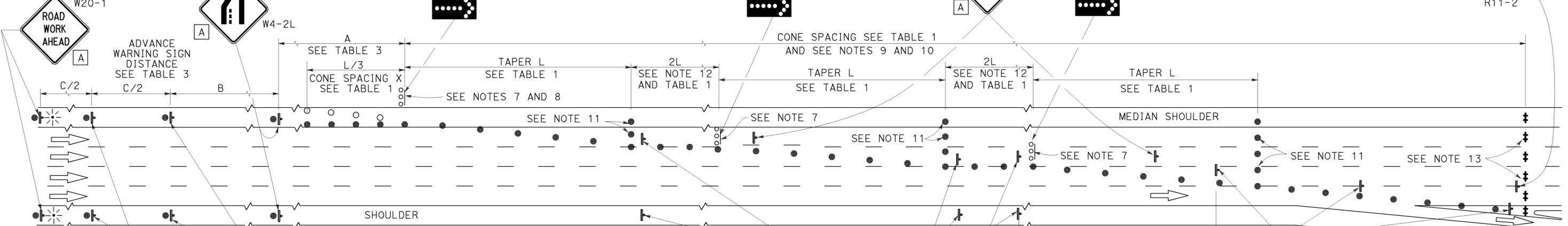
NOTES: See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning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

SEE NOTES 3 AND 5



LANE CLOSURE WITH PARTIAL SHOULDER USE

SEE NOTES 3 AND 5



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A 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.
- 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.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- 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.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 18"
- C 48" x 30"

LEGEND

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

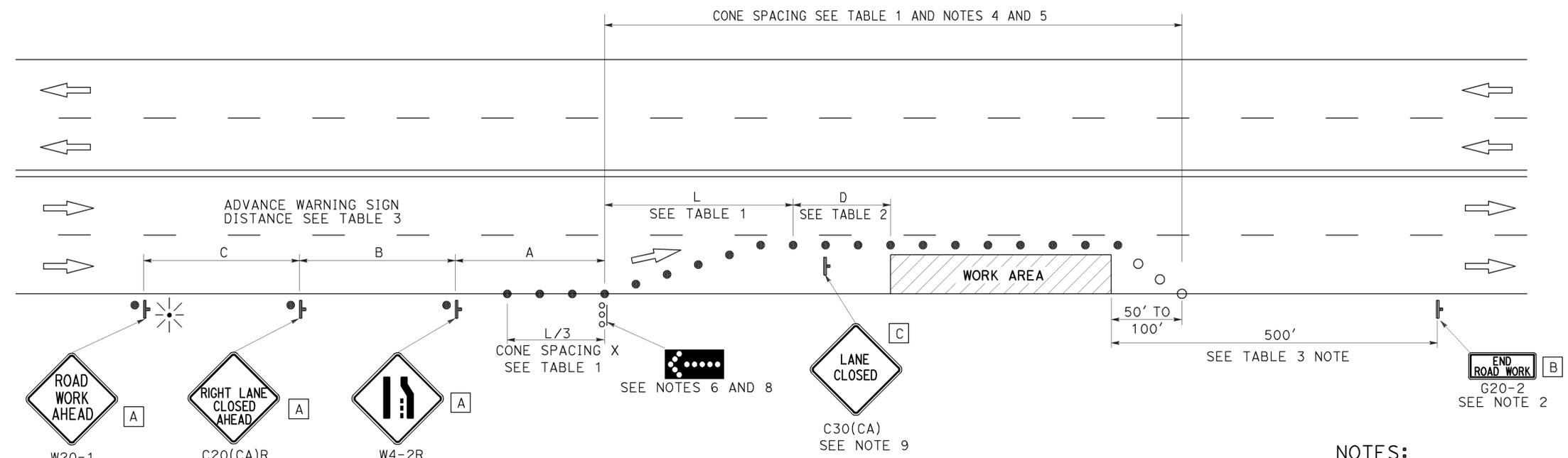
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURES ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

2010 REVISED STANDARD PLAN RSP T10A

TO ACCOMPANY PLANS DATED 3-3-14



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 appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

NOTES:

- 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.
- 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.
- 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.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow sign shall be either Type I or Type II.
- 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.
- 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.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- 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.

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 36" x 18"
- C 30" x 30"

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	28	46

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

April 19, 2013
 PLANS APPROVAL DATE

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

LEGEND

- TRAFFIC CONE
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- ⦿ FAS SUPPORT OR TRAILER
- ☀ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

NOTES:

See Revised Standard Plan RSP T9 for tables.

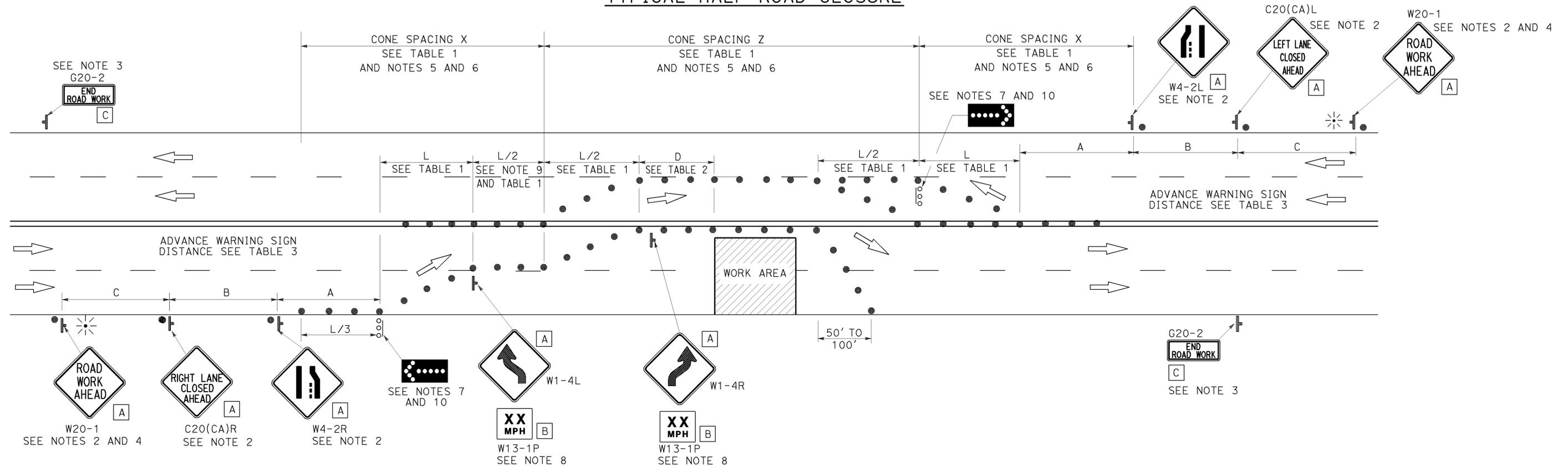
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

TO ACCOMPANY PLANS DATED 3-3-14

TYPICAL HALF ROAD CLOSURE



NOTES:

1. 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.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. 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.
4. 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.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow signs shall be either Type I or Type II.
8. Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
9. Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
10. 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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR HALF ROAD CLOSURE ON
MULTILANE CONVENTIONAL
HIGHWAYS AND EXPRESSWAYS**

NO SCALE

RSP T12 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T12
DATED MAY 20, 2011 - PAGE 240 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T12

2010 REVISED STANDARD PLAN RSP T12

NOTES:

See Revised Standard Plan RSP T9 for tables.

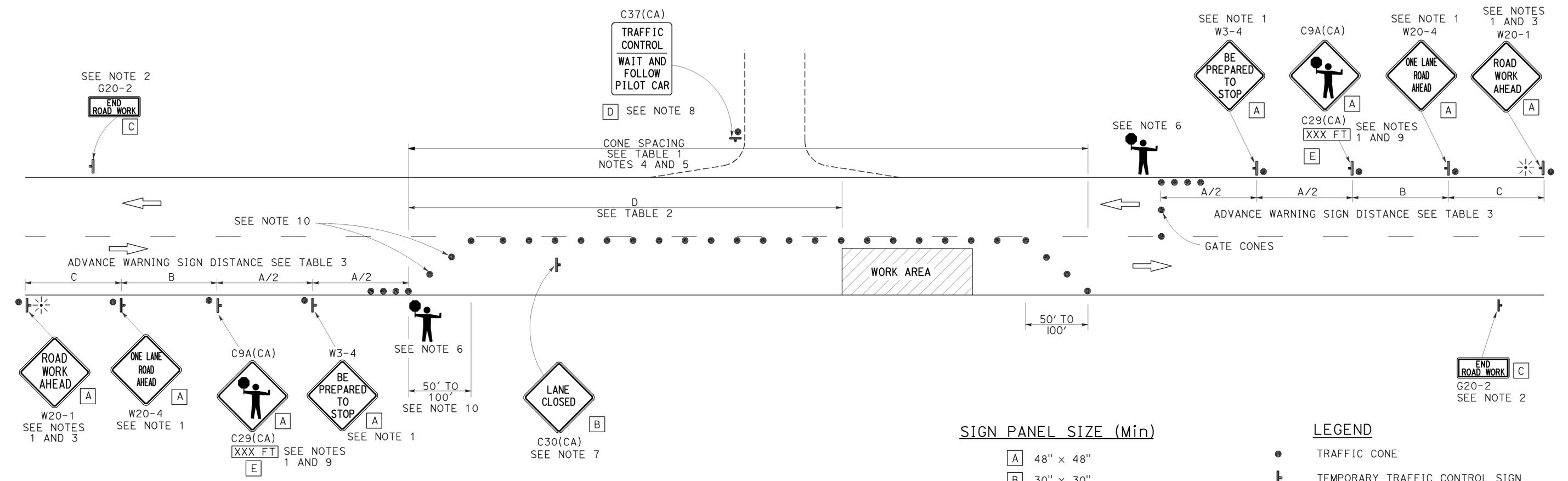
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED **3-3-14**



NOTES:

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

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ☼ PORTABLE FLASHING BEACON
- 👤 FLAGGER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

LEGEND

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101, 134	Var	30	46

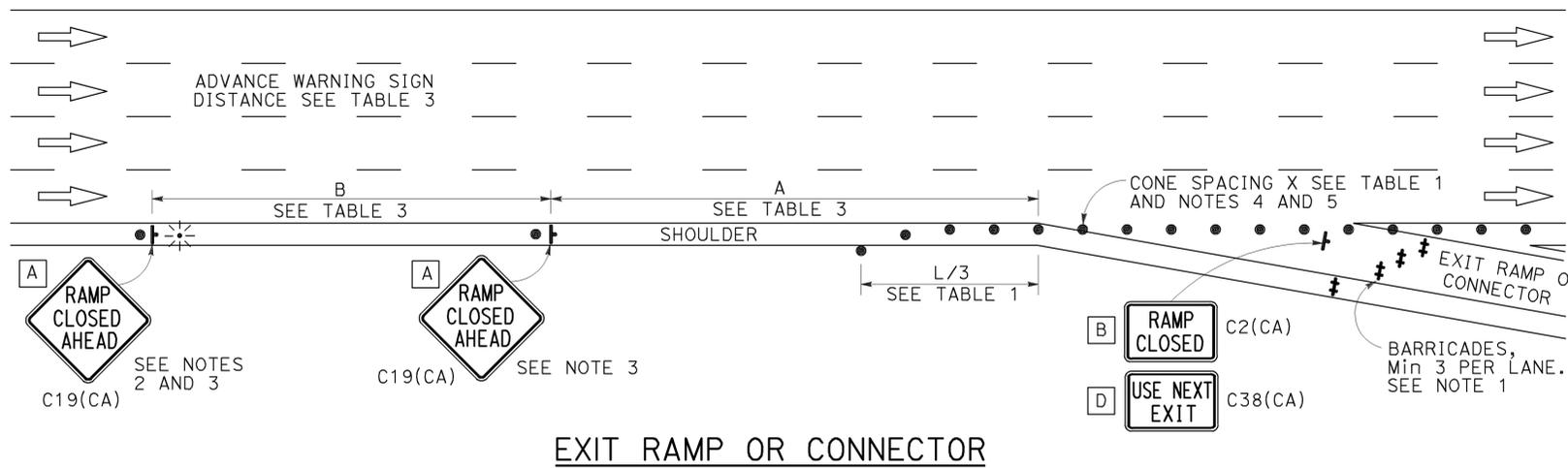
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

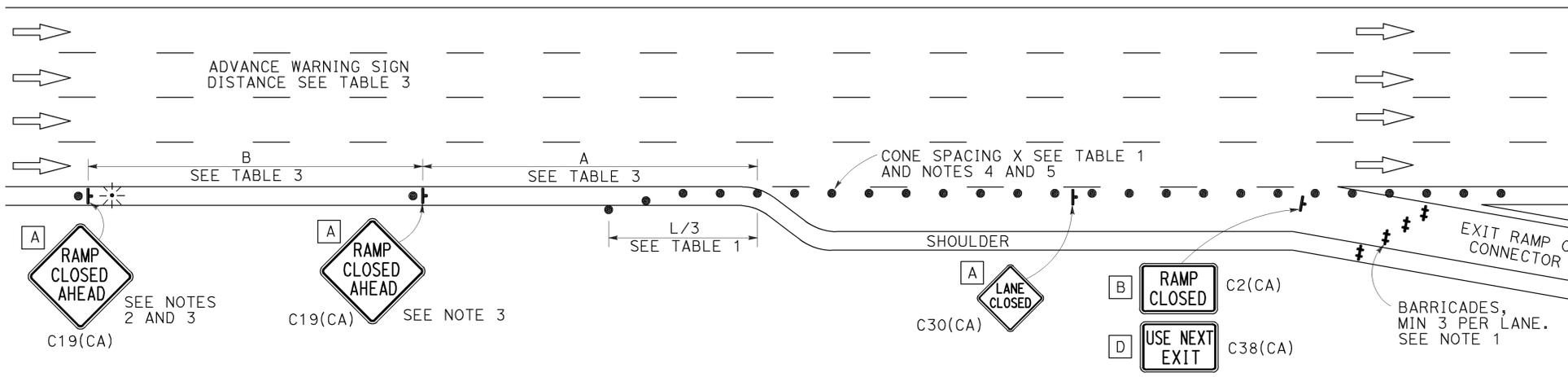
TO ACCOMPANY PLANS DATED 3-3-14

NOTES:

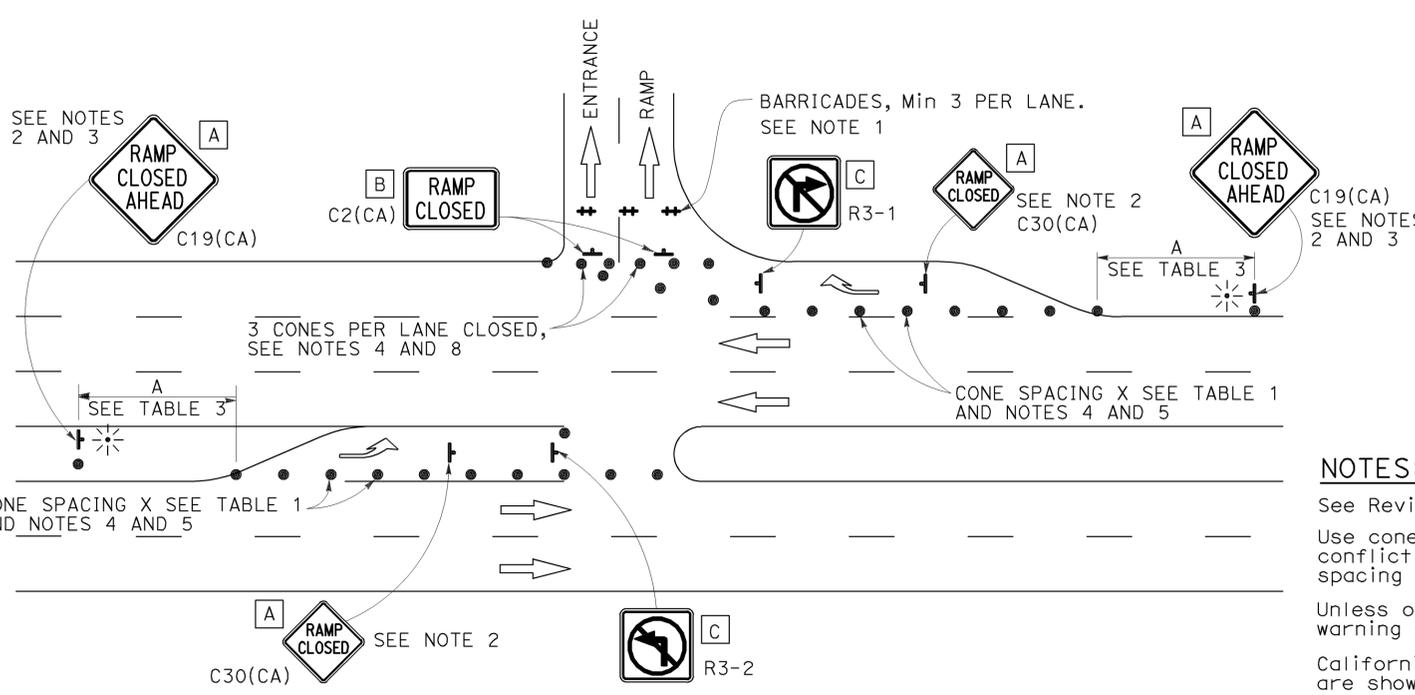
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



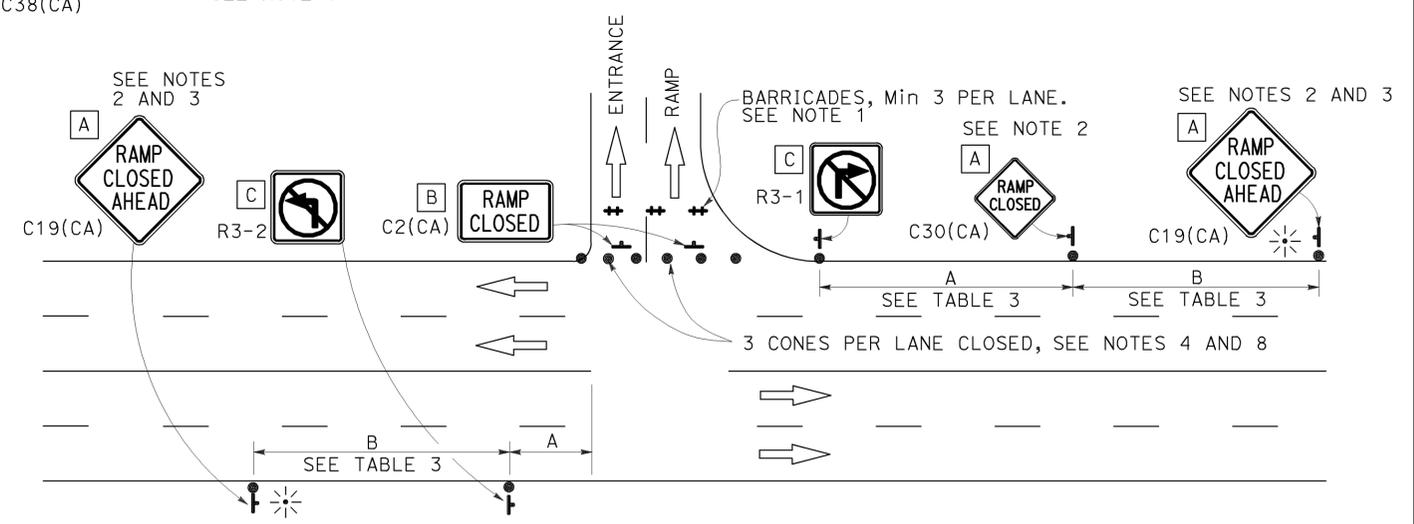
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

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

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

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

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	31	46

S
2-5-14
REGISTERED CIVIL ENGINEER DATE
3-3-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MAZIN S. IBRAHIM
No. C69896
Exp. 09/30/14
CIVIL
STATE OF CALIFORNIA

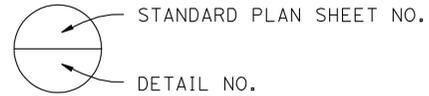
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- ▨ INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.
- ▲1 INDICATES LOCATION OF OVERHEAD HIT REPAIR.
- ▲2 INDICATES LOCATION OF SPALL REPAIR ON STAIR CASE AND GUARD RAIL.

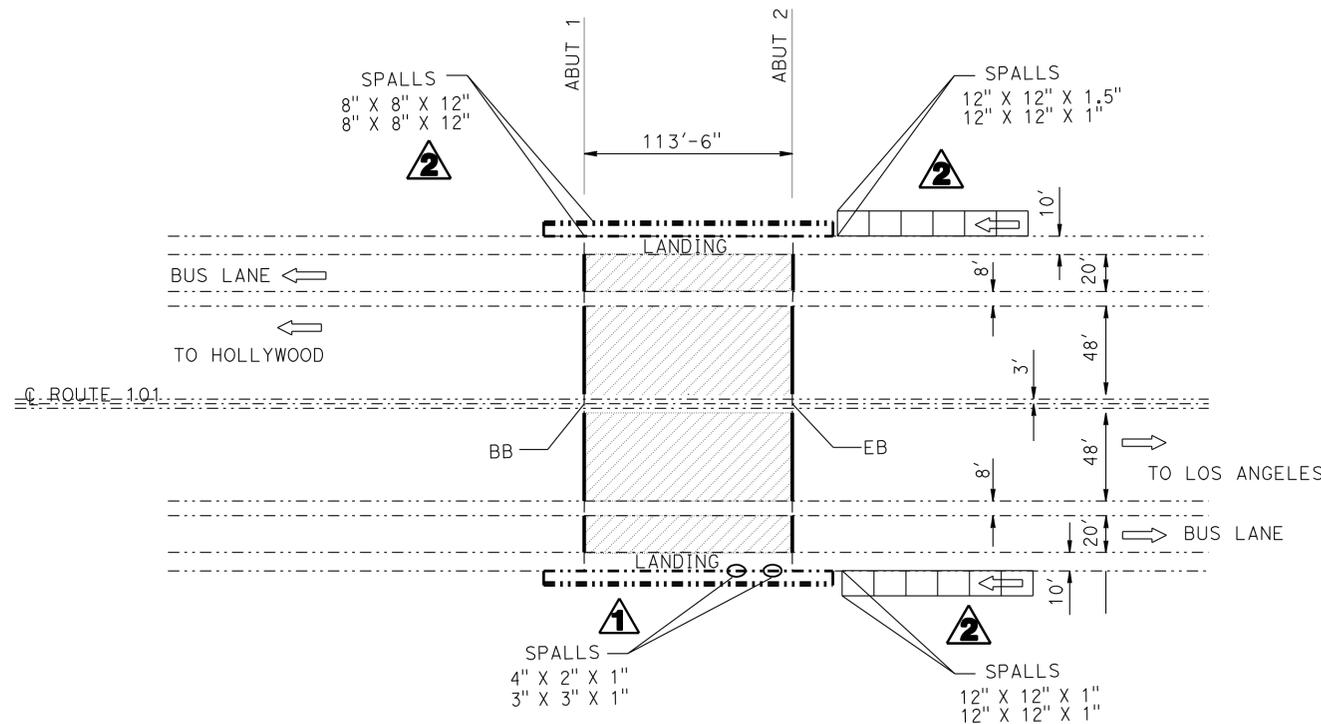
STANDARD PLANS DATED 2010

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")
RSP P10	CONCRETE PAVEMENT DOWEL BAR DETAILS



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	MISCELLANEOUS DETAILS NO. 1
15	MISCELLANEOUS DETAILS NO. 2
16	STRUCTURE APPROACH TYPE R(30D)



ALVARADO STREET SEPARATION

Br No. 53-0617, RTE 101, PM 2.86
NO SCALE



ALVARADO STREET SEPARATION #53-0617
QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	6 SQFT
REPAIR SPALLED SURFACE AREA	15,440 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	15,440 SQFT
TREAT BRIDGE DECK	193 GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL	272 LF
CLEAN EXPANSION JOINT	272 LF
JOINT SEAL (MR 1/2")	

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

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	By Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	By Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	By Eugene Goishi
QUANTITIES	By Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	By James Choi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. 53-0617
POST MILE 2.86

ROUTE 101, 134 BRIDGES
GENERAL PLAN NO. 1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489
PROJECT NUMBER & PHASE: 07120004511
CONTRACT NO.: 07-1W6504

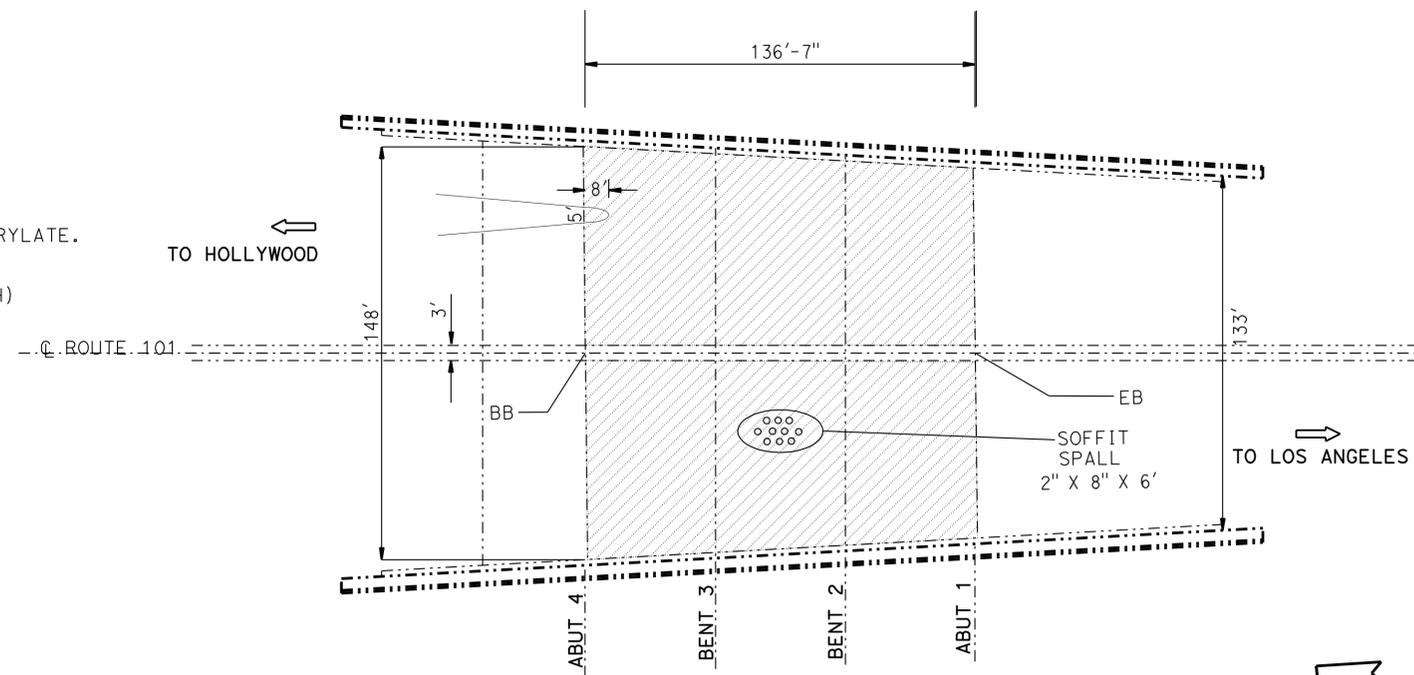
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
4-22-13 6-4-13	01	16

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	32	46
			REGISTERED CIVIL ENGINEER DATE		
			2-5-14		
			PLANS APPROVAL DATE		
			3-3-14		
			REGISTERED PROFESSIONAL ENGINEER		
			Mazin S. Ibrahim		
			No. C69896		
			Exp. 09/30/11		
			CIVIL		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

LEGEND:

- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- ▨ INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
- ∞ INDICATES REMOVAL OF UNSOUND CONCRETE AND PLACE RAPID SETTING CONCRETE (PATCH) AT THE WINGWALL.



VENDOME STREET UNDERCROSSING

Br No. 53-0073 RTE 101, PM 3.63
NO SCALE

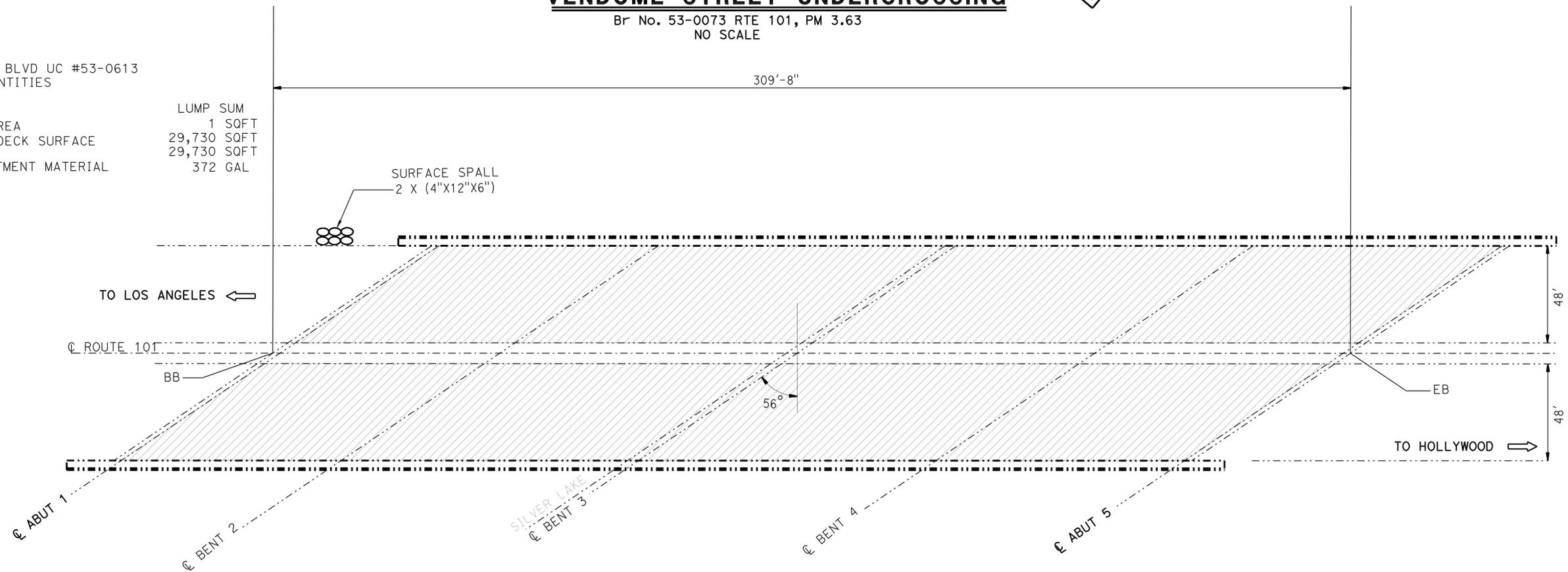


VENDOME STREET UC #53-0073
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	4 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	19,200 SQFT
TREAT BRIDGE DECK	19,200 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	240 GAL

SILVER LAKE BLVD UC #53-0613
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	1 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	29,730 SQFT
TREAT BRIDGE DECK	29,730 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	372 GAL



SILVER LAKE BLVD UC

Br No. 53-0613, RTE 101, PM 3.76
NO SCALE



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

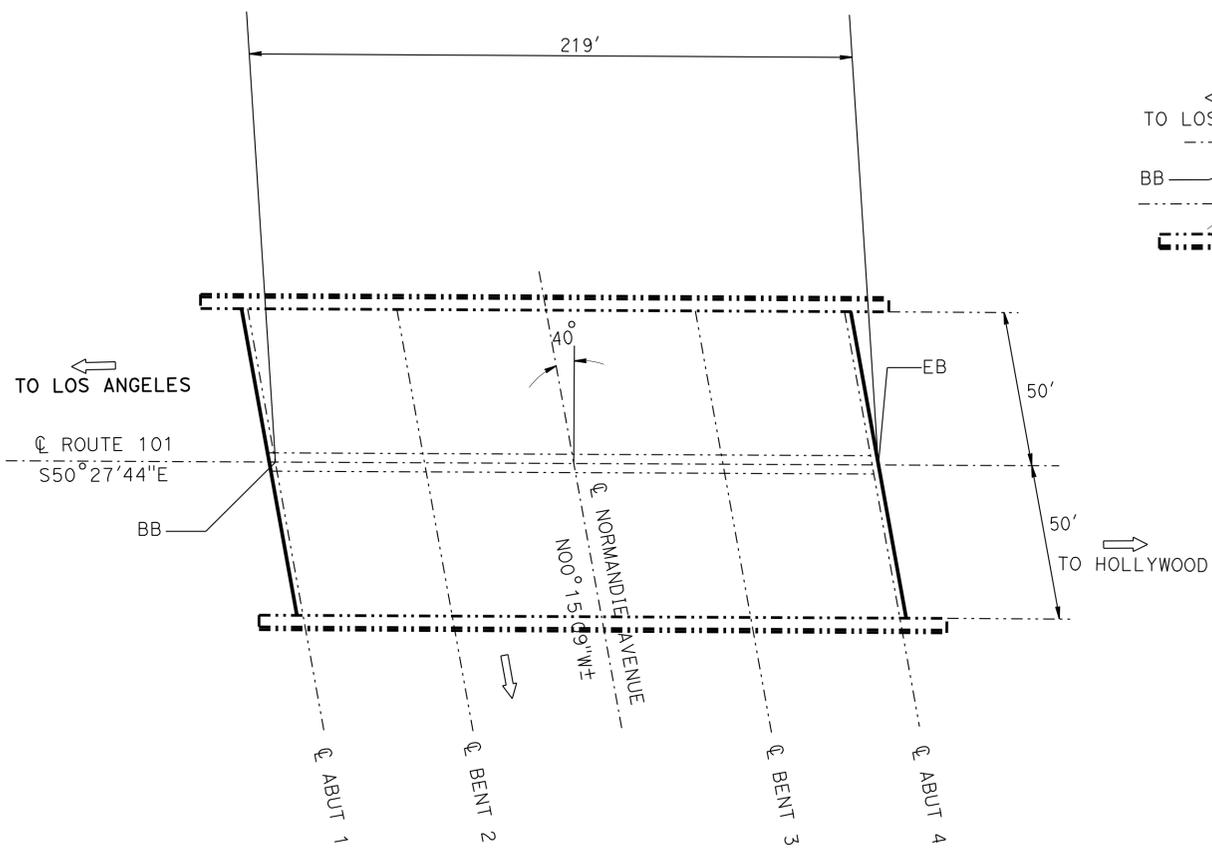
TONY D. BRAKE DESIGN ENGINEER	DESIGN	By Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 101, 134 BRIDGES GENERAL PLAN NO. 2	
	DETAILS	By Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	By Eugene Goishi			CHECKED Mazin Ibrahim		POST MILE
	QUANTITIES	By Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	By James Choi			PLANS AND SPECS COMPARED		Varies
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3489 PROJECT NUMBER & PHASE: 07120004511 CONTRACT NO.: 07-1W6504		
								DISREGARD PRINTS BEARING EARLIER REVISION DATES		
								REVISION DATES		
								SHEET 02 OF 16		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	33	46

REGISTERED CIVIL ENGINEER DATE 2-5-14
 PLANS APPROVAL DATE 3-3-14
 No. C69896
 Exp. 09/30/14
 CIVIL
 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.
- ⚠ INDICATE LOCATION OF OVERHEIGHT HIT REPAIR.
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.



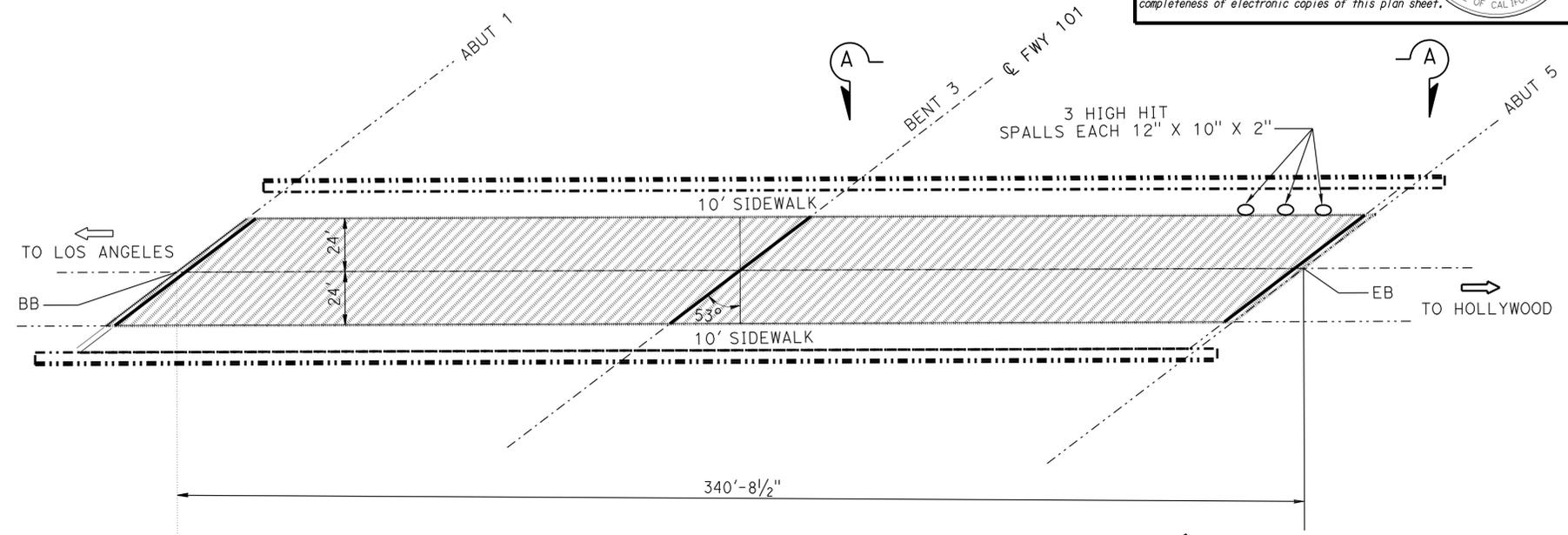
NORMANDIE AVENUE UNDERCROSSING

Br No. 53-0674, RTE 101, PM 4.99
NO SCALE

NORMANDIE AVE UC #53-0674
QUANTITIES

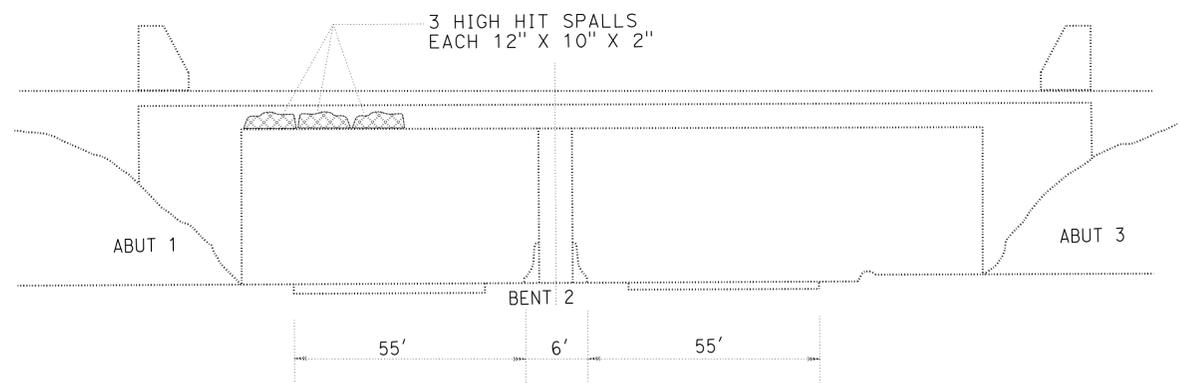
CLEAN EXPANSION JOINT 264 LF
JOINT SEAL (MR 1/2") 264 LF

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



WILTON PLACE OVERCROSSING

Br No. 53-0731, RTE 101, PM 6.15
NO SCALE



SECTION A-A

WILTON PLACE OC #53-0731
QUANTITIES

PUBLIC SAFETY PLAN
REPAIR SPALLED SURFACE AREA 1 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE 16,354 SQFT
TREAT BRIDGE DECK 16,354 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL 204 GAL
CLEAN EXPANSION JOINT 237 LF
JOINT SEAL (MR 1/2") 158 LF
JOINT SEAL (MR 1") 79 LF

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	BY Eugene Goishi
QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

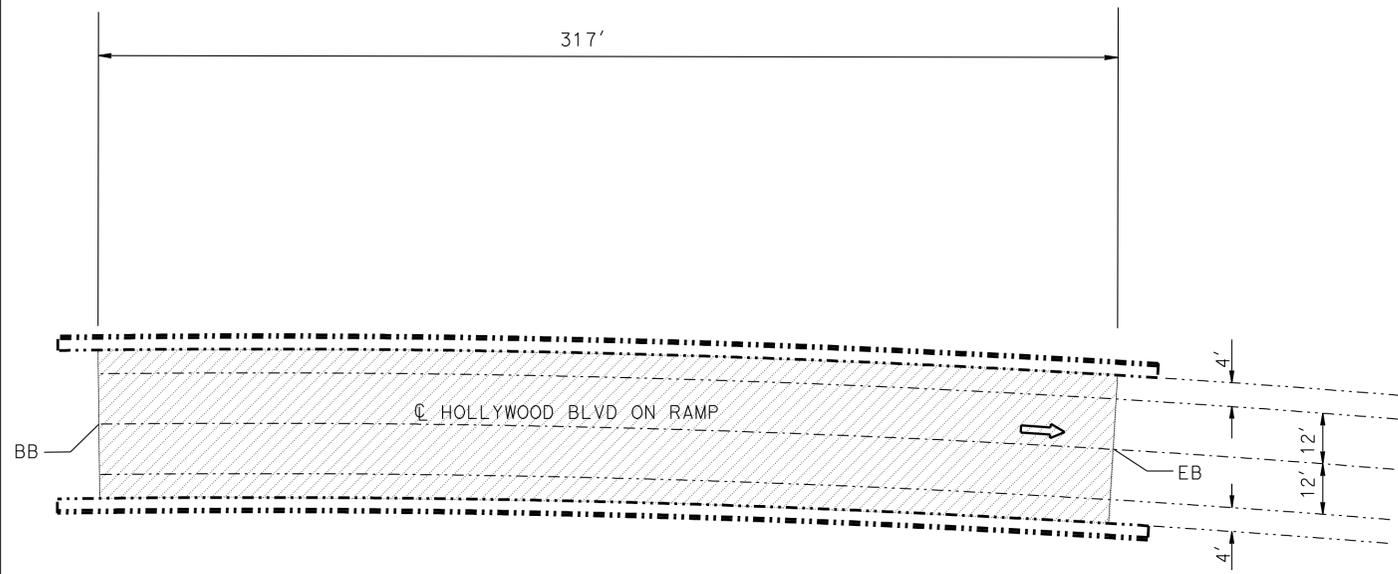
**ROUTE 101, 134 BRIDGES
GENERAL PLAN NO. 3**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	34	46

REGISTERED CIVIL ENGINEER DATE 2-5-14
 PLANS APPROVAL DATE 3-3-14
 No. C69896
 Exp. 09/30/14
 REGISTERED PROFESSIONAL ENGINEER
 MAZIN S. IBRAHIM
 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.
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.



VAN NESS AVE ON-RAMP UC

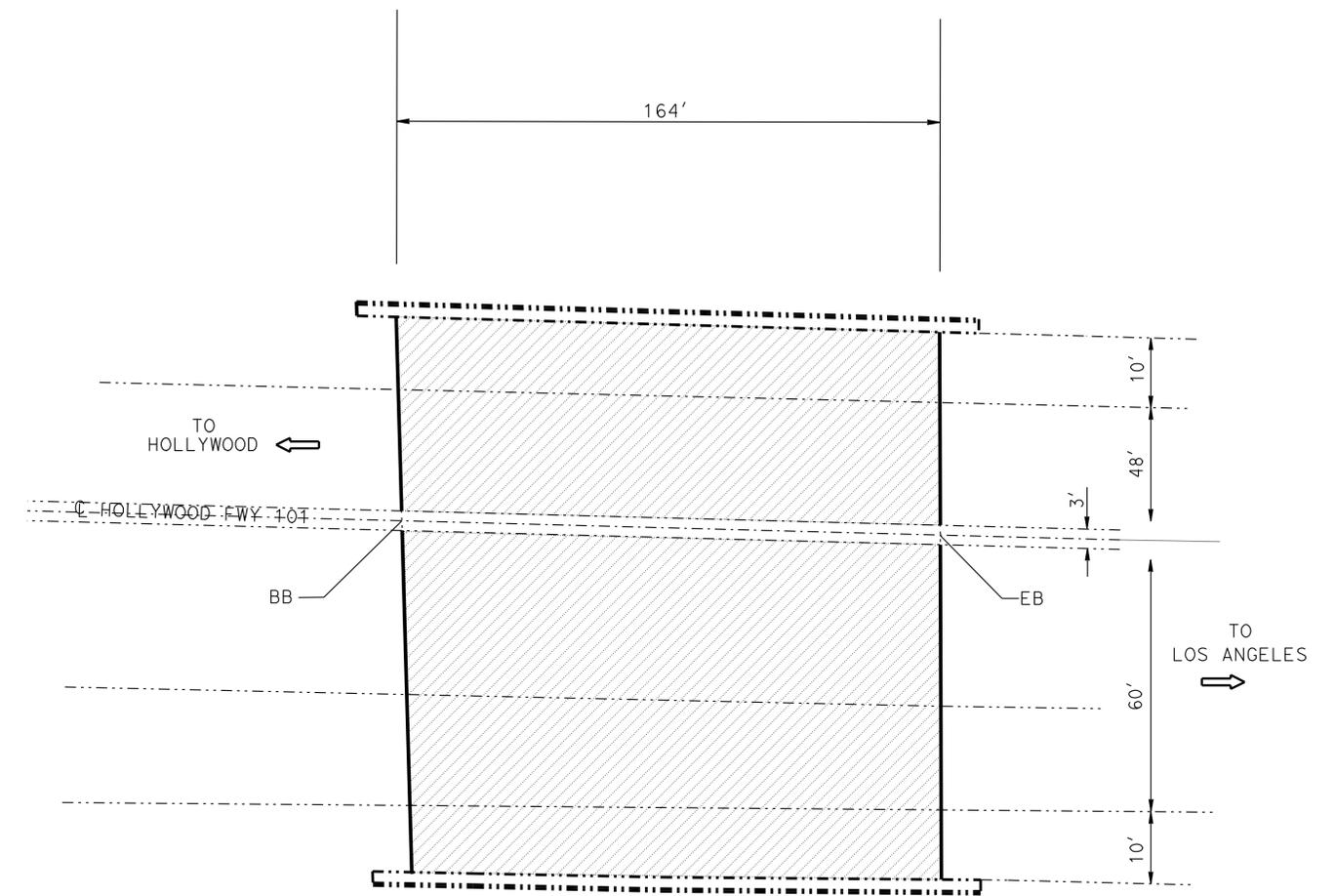
Br No. 53-0732K, RTE 101, PM 6.41
NO SCALE



VAN NESS AVE ON RAMP UC #53-0732K
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	10,150 SQFT
TREAT BRIDGE DECK	10,150 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	127 GAL

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



GOWER STREET UC

Br No. 53-0679, RTE 101, PM 6.91
NO SCALE



GOWER STREET UC #53-0679
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	21,000 SQFT
TREAT BRIDGE DECK	21,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	262 GAL
CLEAN EXPANSION JOINT	256 LF
JOINT SEAL (MR 1")	256 LF

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	BY Eugene Goishi
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

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

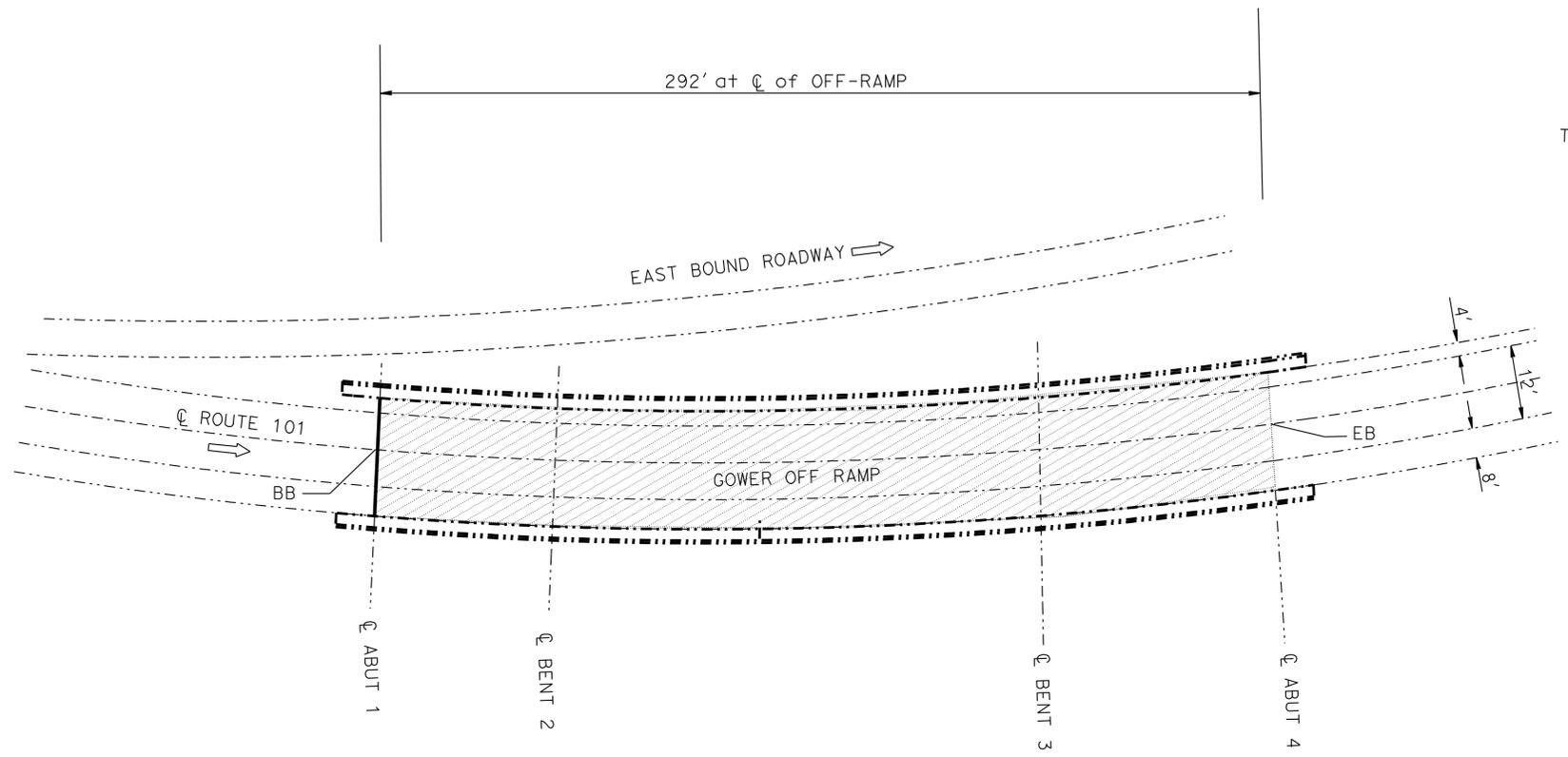
BRIDGE NO.	Various	ROUTE 101, 134 BRIDGES GENERAL PLAN NO. 4
POST MILE	Various	

USERNAME => s122436 DATE PLOTTED => 14-MAR-2014 TIME PLOTTED => 10:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	35	46
			2-5-14		
			REGISTERED CIVIL ENGINEER DATE		
			3-3-14		
			PLANS APPROVAL DATE		
			No. C69896		
			Exp. 09/30/14		
			CIVIL		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

LEGEND:

- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- ▨ INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.

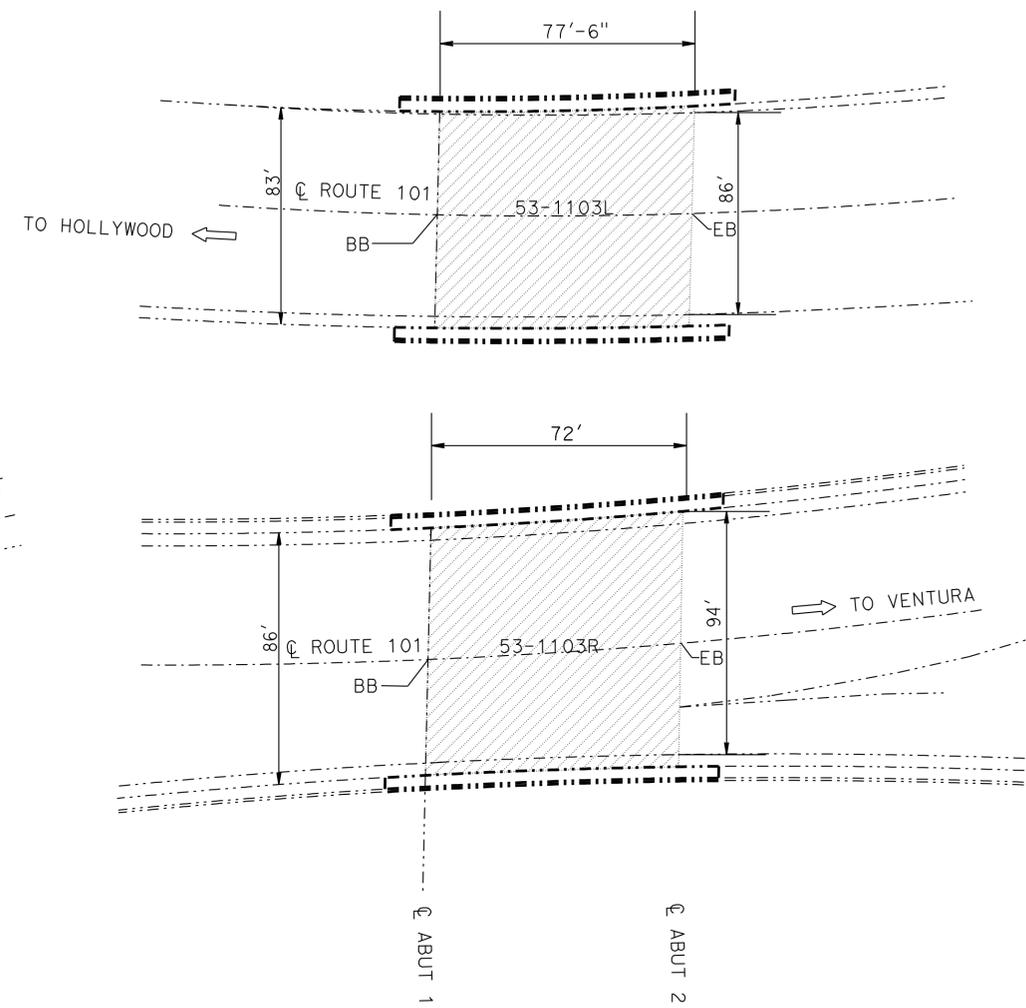


GOWER STREET OFF-RAMP
 Br No. 53-0865K, RTE 101, PM 7.04
 NO SCALE

GOWER STREET OFF RAMP #53-0865K
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	7,010 SQFT
TREAT BRIDGE DECK	7,010 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	88 GAL
CLEAN EXPANSION JOINT	24 LF
JOINT SEAL (MR 1 1/2")	24 LF

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



HASKELL AVE UC
 Br No. 53-1103 R/L, RTE 101, PM 17.5
 NO SCALE

HASKELL AVE UC #53-1103 R/L
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	13,030 SQFT
TREAT BRIDGE DECK	13,030 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	163 GAL

TONY D. BRAKE
 DESIGN ENGINEER

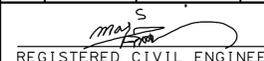
DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	BY Eugene Goishi
QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi
				CHECKED Mazin Ibrahim
				PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

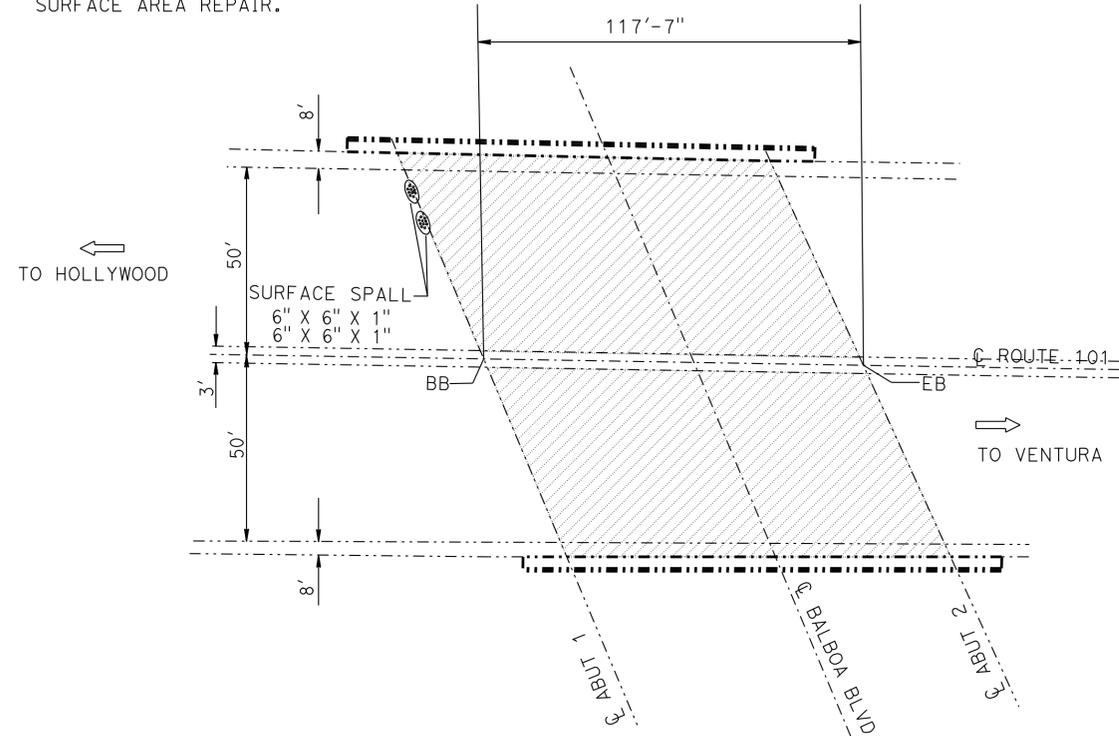
ROUTE 101, 134 BRIDGES
GENERAL PLAN NO. 5

USERNAME => s122436 DATE PLOTTED => 14-MAR-2014 TIME PLOTTED => 10:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101, 134	Var	36	46
 REGISTERED CIVIL ENGINEER DATE 2-5-14					
PLANS APPROVAL DATE 3-3-14			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.
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.
-  INDICATES LOCATION OF SPALLED SURFACE AREA REPAIR.



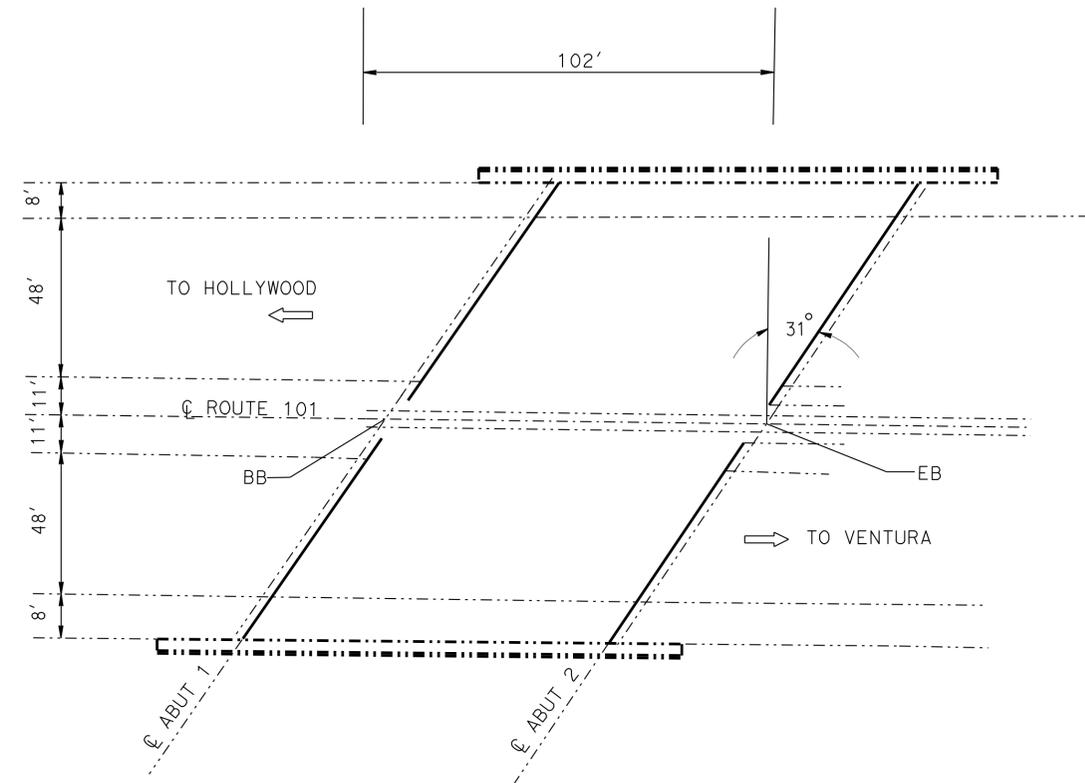
BALBOA BOULEVARD UNDERCROSSING

Br No. 53-1052, RTE 101, PM 19.22
NO SCALE

BALBOA BLVD UC #53-1052
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	1 CF
REMOVE UNSOUND CONCRETE	1 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	13,670 SQFT
TREAT BRIDGE DECK	13,670 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	171 GAL

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



BURBANK BLVD UC

Br No. 53-1056, RTE 101, PM 21.02
NO SCALE

BURBANK BLVD UC #53-1056
QUANTITIES

CLEAN EXPANSION JOINT	312 LF
JOINT SEAL (MR 1/2")	312 LF

 DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 101, 134 BRIDGES GENERAL PLAN NO. 6			
	DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	BY Eugene Goishi		POST MILE				
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi		PLANS AND SPECS COMPARED		Various		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 07120004511	CONTRACT NO.: 07-1W6504	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 06 OF 16

LEGEND:

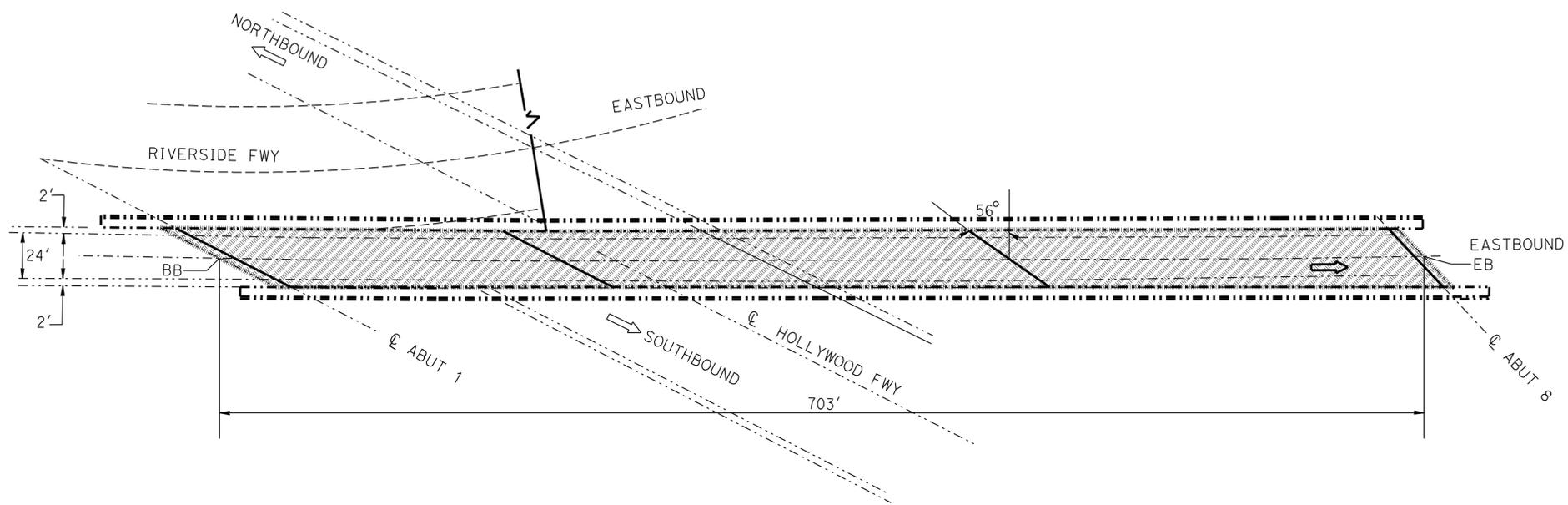
- INDICATES EXISTING
- INDICATES DIRECTION OF TRAFFIC.
- ▨ INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	37	46

Mazin
 REGISTERED CIVIL ENGINEER DATE 2-5-14
 3-3-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MAZIN S. IBRAHIM
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA

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



RIVERSIDE DRIVE OFF-RAMP OC

Br No. 1493S, RTE 134, PM 0.01
NO SCALE



RIVERSIDE DRIVE OFF-RAMP OC #53-1493S
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	19,690 SQFT
TREAT BRIDGE DECK	19,690 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	246 GAL
CLEAN EXPANSION JOINT	200 LF
JOINT SEAL (MR 1")	100 LF
JOINT SEAL (MR 1 1/2")	100 LF

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 101, 134 BRIDGES GENERAL PLAN NO. 7			
	DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	BY Eugene Goishi		POST MILE				
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi		PLANS AND SPECS COMPARED		Various		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 07120004511	CONTRACT NO.: 07-1W6504	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 07 OF 16

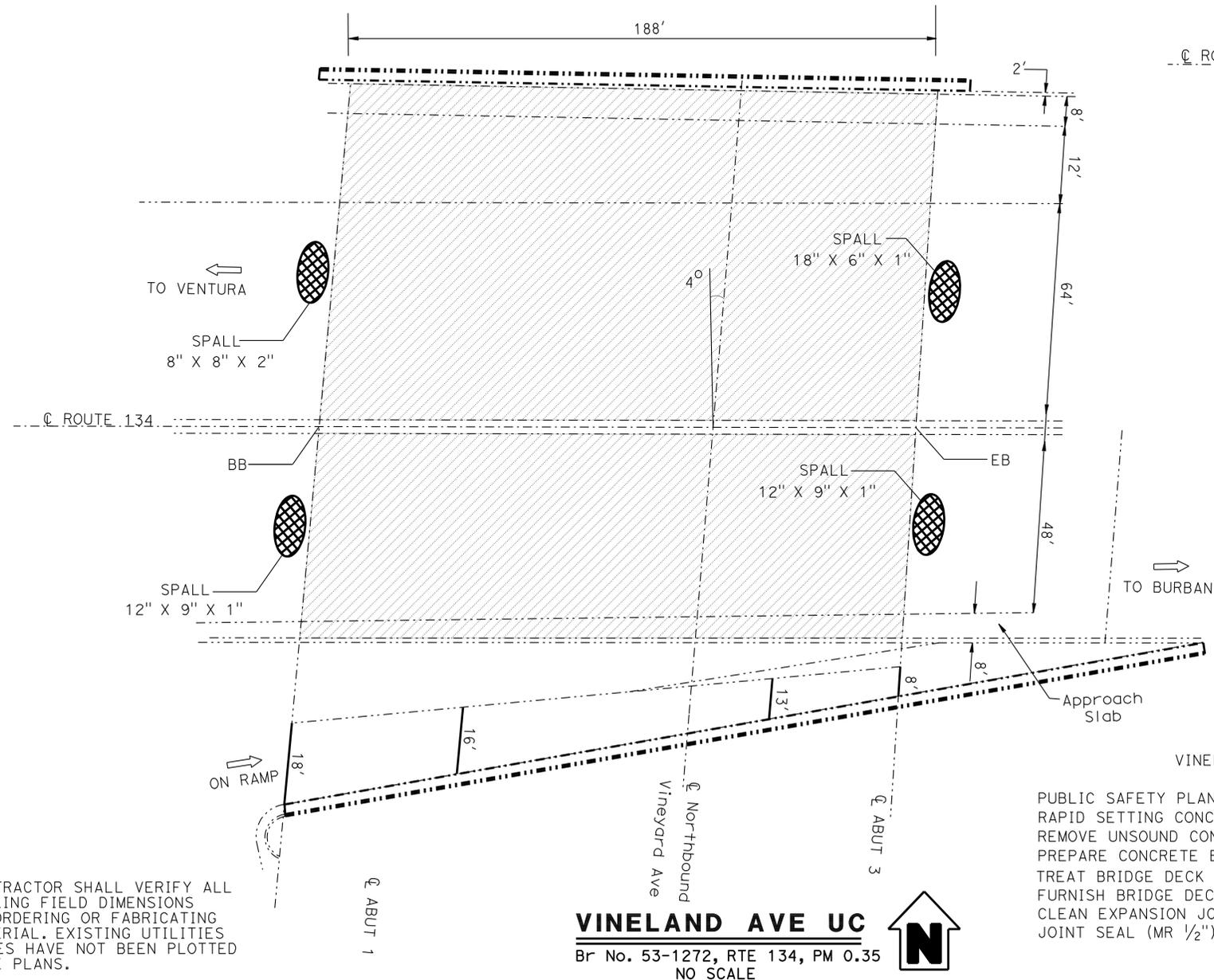
USERNAME => s122436 DATE PLOTTED => 14-MAR-2014 TIME PLOTTED => 10:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	38	46

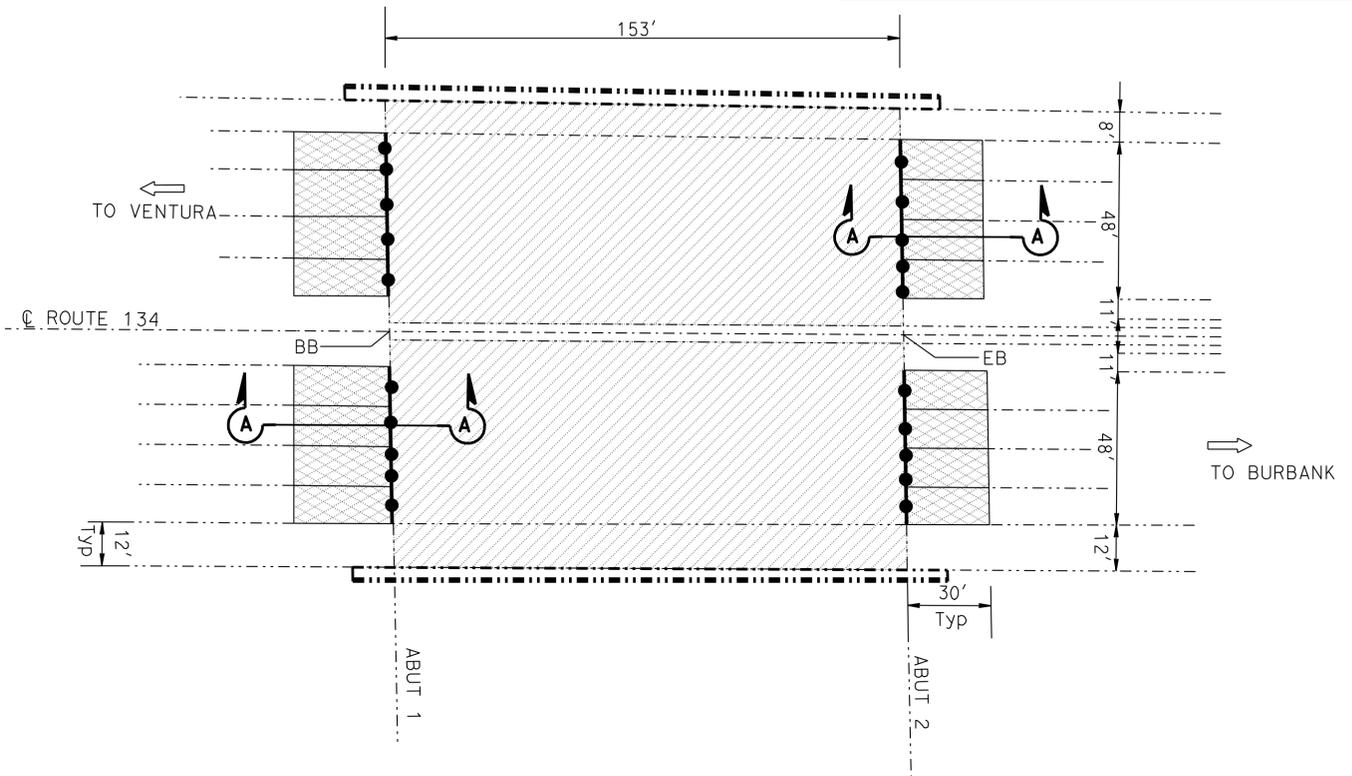
REGISTERED CIVIL ENGINEER DATE 2-5-14
 REGISTERED CIVIL ENGINEER MAZIN S. IBRAHIM
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 3-3-14
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this 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
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.
- ▩ INDICATES LIMITS OF REMOVE EXISTING PCC AND AC APPROACH AND PLACE NEW STRUCTURE APPROACH TYPE R(30D). FOR DETAILS SEE STRUCTURE APPROACH TYPE R(30D) SHEET.
- INDICATES LOCATION OF PLACING NEW EXPANSION JOINT SEALS AND PAVING NOTCH EXTENSION SEE SECTION AA ON SHEET 16 OF 16.
- ⊗ INDICATES REMOVAL OF UNSOUND CONCRETE AND PLACE RAPID SETTING CONCRETE (PATCH).



VINELAND AVE UC
 Br No. 53-1272, RTE 134, PM 0.35
 NO SCALE



CAHUENGA BLVD UC
 Br No. 53-1274, RTE 134, PM 0.86
 NO SCALE

CAHUENGA BLVD UC #53-1274 QUANTITIES

PUBLIC SAFETY PLAN	21,130 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	21,130 SQFT
TREAT BRIDGE DECK	265 GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL	257 GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	144 CF
PAVING NOTCH EXTENSION	192 LF
JOINT SEAL (MR 1/2")	

VINELAND AVE UC #53-1272 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	1 CF
REMOVE UNSOUND CONCRETE	1 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	30,480 SQFT
TREAT BRIDGE DECK	30,480 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	381 GAL
CLEAN EXPANSION JOINT	55 GAL
JOINT SEAL (MR 1/2")	55 GAL

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

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: AND PERMIT DESIGN LOAD	HS20-44 AND ALTERNATIVE
DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	BY Eugene Goishi	CHECKED Mazin Ibrahim
QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
 POST MILE Varies

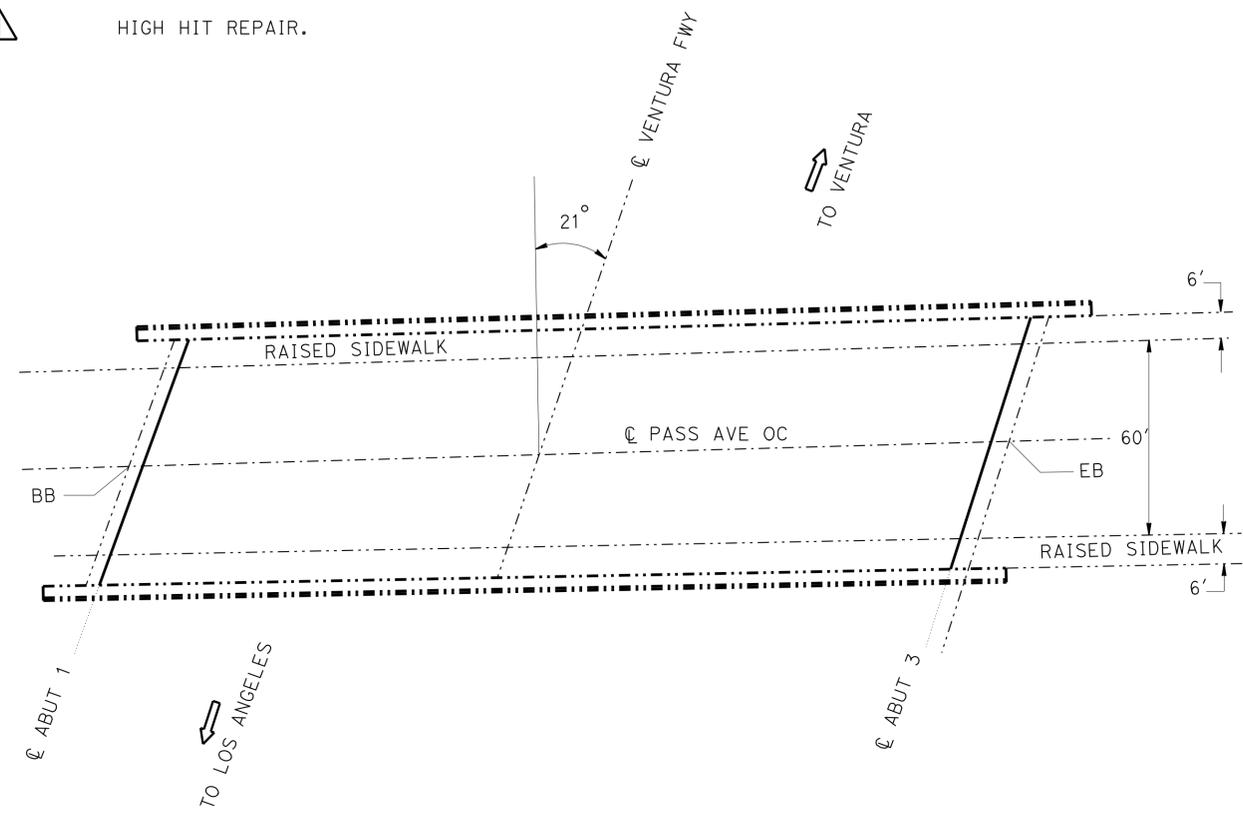
ROUTE 101, 134 BRIDGES
GENERAL PLAN NO. 8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	39	46

REGISTERED CIVIL ENGINEER DATE: 2-5-14
 PLANS APPROVAL DATE: 3-3-14
 REGISTERED PROFESSIONAL ENGINEER: MAZIN S. IBRAHIM
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

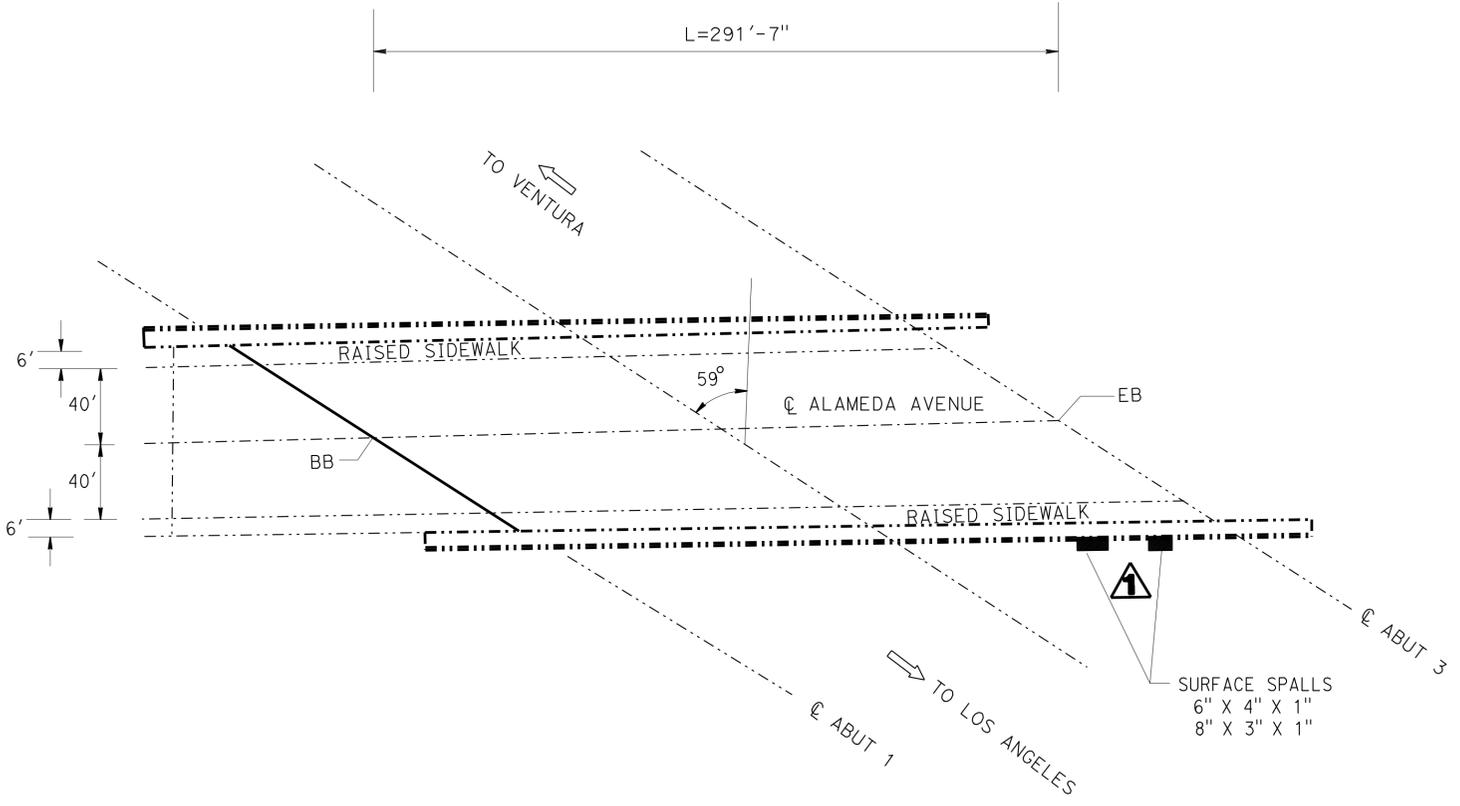
- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.
- ▲ HIGH HIT REPAIR.



PASS AVE OC
 Br No. 53-1277, RTE 134, PM 1.82
 NO SCALE

PASS AVE OC #53-1277 QUANTITIES	LUMP SUM
CLEAN EXPANSION JOINT	156 LF
JOINT SEAL (MR 1")	156 LF

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



ALAMEDA AVE OC
 Br No. 53-1278, RTE 134, PM 2.03
 NO SCALE

ALAMEDA AVE OC #53-1278 QUANTITIES	LUMP SUM
REPAIR SPALLED SURFACE AREA	1 SQFT
CLEAN EXPANSION JOINT	179 LF
JOINT SEAL (MR 1")	179 LF

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	BY Eugene Goishi
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
 POST MILE Varies

ROUTE 101, 134 BRIDGES
 GENERAL PLAN NO. 9

UNIT: 3489
 PROJECT NUMBER & PHASE: 07120004511

CONTRACT NO.: 07-1W6504

DISREGARD PRINTS BEARING EARLIER REVISION DATES

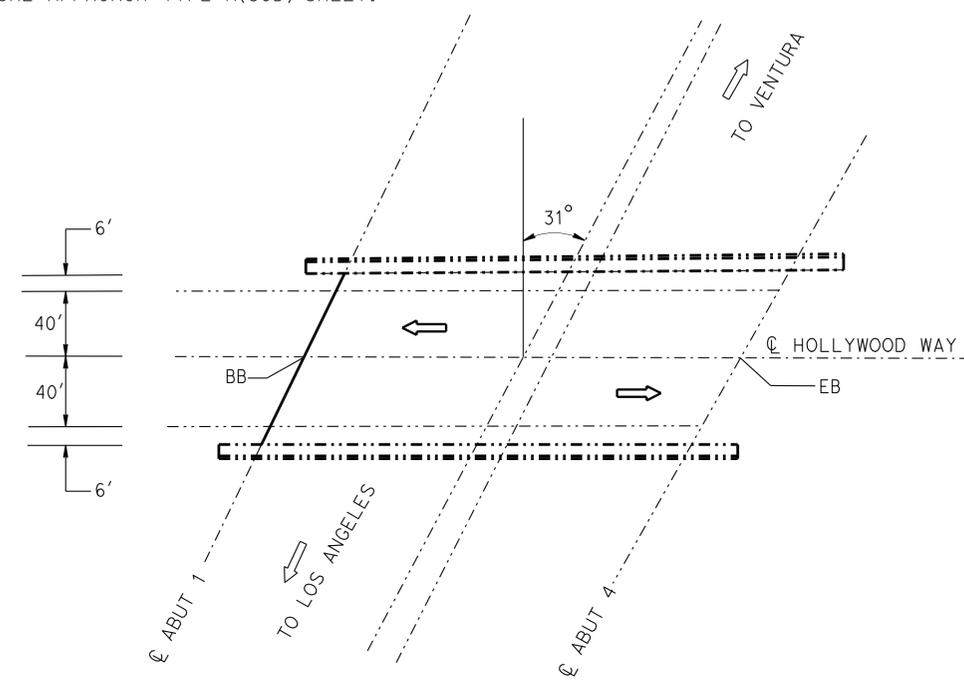
REVISION DATES	SHEET 09	OF 16
----------------	----------	-------

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	40	46

REGISTERED CIVIL ENGINEER DATE 2-5-14
 PLANS APPROVAL DATE 3-3-14
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

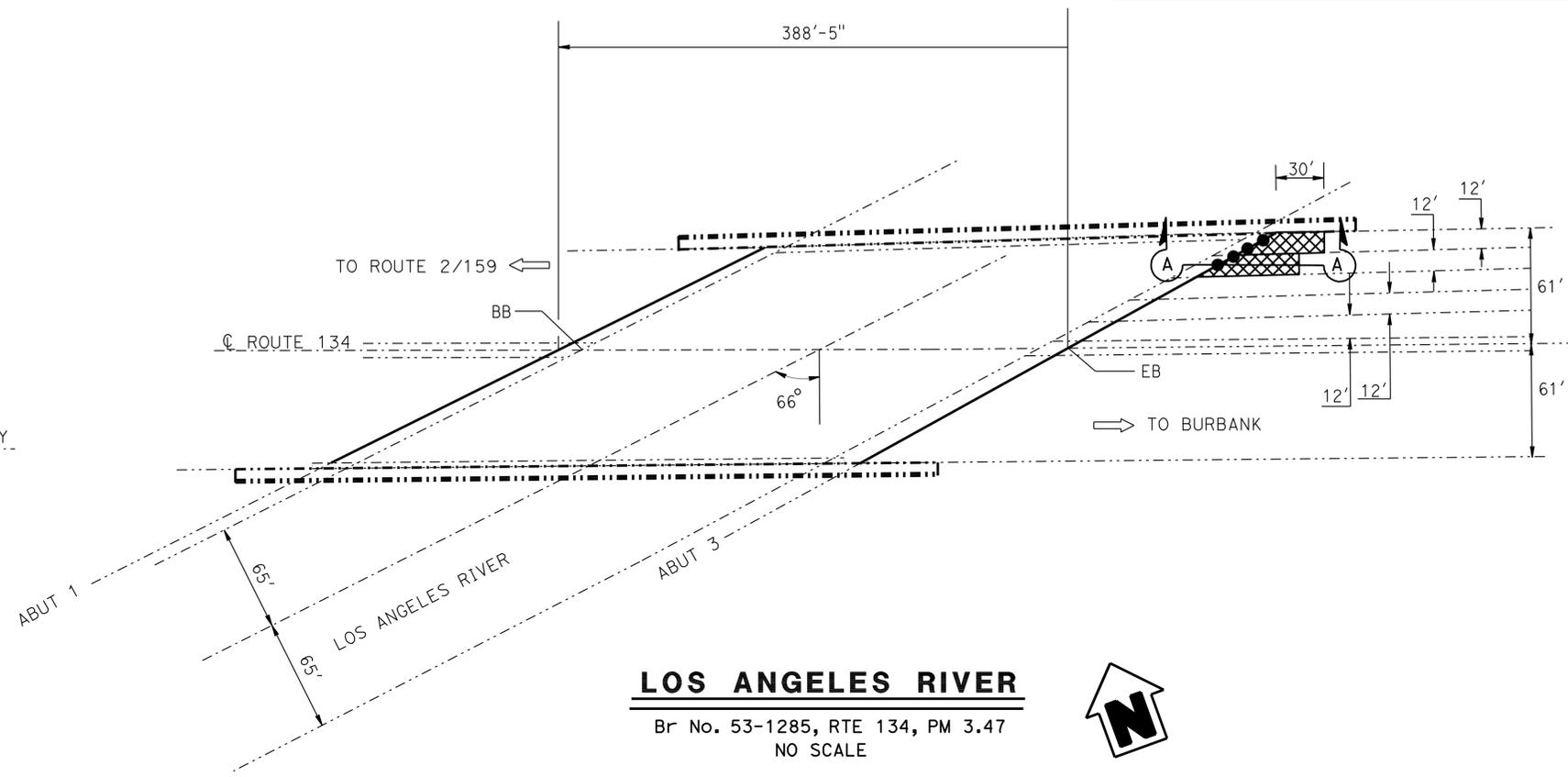
LEGEND:

- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.
- INDICATES LOCATION OF PLACING NEW EXPANSION JOINT SEAL AND PAVING NOTCH EXTENSION. SEE SECTION AA ON SHEET 16 OF 16.
- ▨ INDICATES LIMITS OF REMOVE EXISTING PCC AND AC APPROACH AND PLACE NEW STRUCTURE APPROACH TYPE R(30D). FOR DETAILS SEE STRUCTURE APPROACH TYPE R(30D) SHEET.



HOLLYWOOD WAY OC
 Br No. 53-1279, RTE 134, PM 2.11
 NO SCALE

HOLLYWOOD WAY OC #53-1279
 QUANTITIES
 CLEAN EXPANSION JOINT 107 LF
 JOINT SEAL (MR 1 1/2") 107 LF



LOS ANGELES RIVER
 Br No. 53-1285, RTE 134, PM 3.47
 NO SCALE

LOS ANGELES RIVER BR #53-1285
 QUANTITIES
 STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 27 CY
 PAVING NOTCH EXTENSION 18 CF
 CLEAN EXPANSION JOINT 540 LF
 JOINT SEAL (MR 1") 600 LF

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

TONY D. BRAKE
 DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: AND PERMIT DESIGN LOAD	HS20-44 AND ALTERNATIVE
DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	BY Eugene Goishi	CHECKED Mazin Ibrahim
QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
 POST MILE Varies

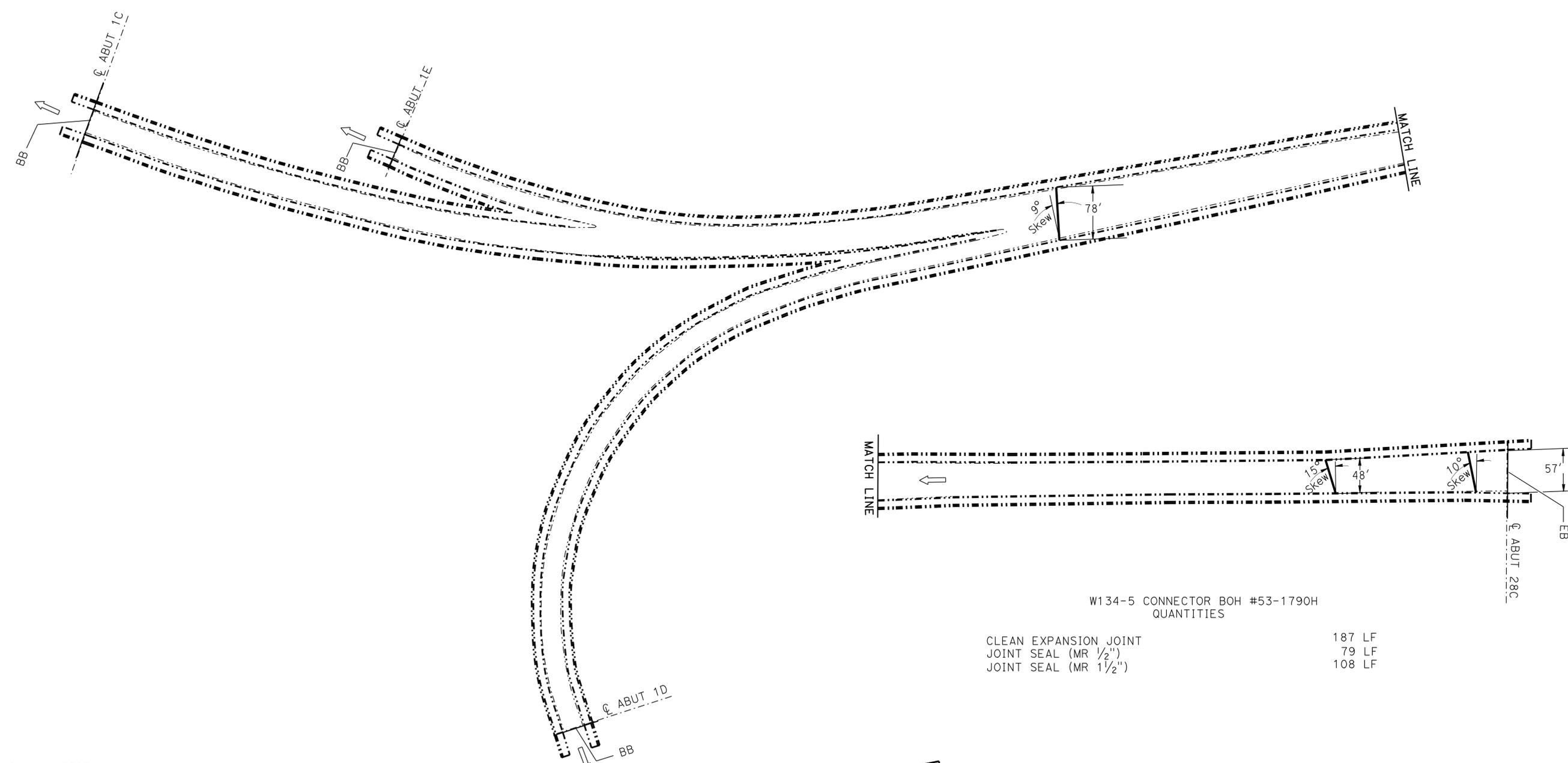
ROUTE 101, 134 BRIDGES
GENERAL PLAN NO. 10

LEGEND:

- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- |— INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	41	46

REGISTERED CIVIL ENGINEER: *Mazin Ibrahim* DATE: 2-5-14
 PLANS APPROVAL DATE: 3-3-14
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



W134-5 CONNECTOR BOH #53-1790H
 QUANTITIES

CLEAN EXPANSION JOINT	187 LF
JOINT SEAL (MR 1/2")	79 LF
JOINT SEAL (MR 1 1/2")	108 LF

W 134-5 CONNECTOR BOH

Br No. 53-1790H, RTE 134, PM R5.67
 NO SCALE



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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	53-1730H	W134-5 CONNECTOR BRIDGE AND OVERHEAD GENERAL PLAN NO. 11	
	DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	BY Eugene Goishi			CHECKED Mazin Ibrahim	POST MILE		5.67
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi			PLANS AND SPECS COMPARED	UNIT: 3489		PROJECT NUMBER & PHASE: 07120004511

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 4-22-13 7-2-13
 FILE => 07-1w6501_041(-a-gp11).dgn

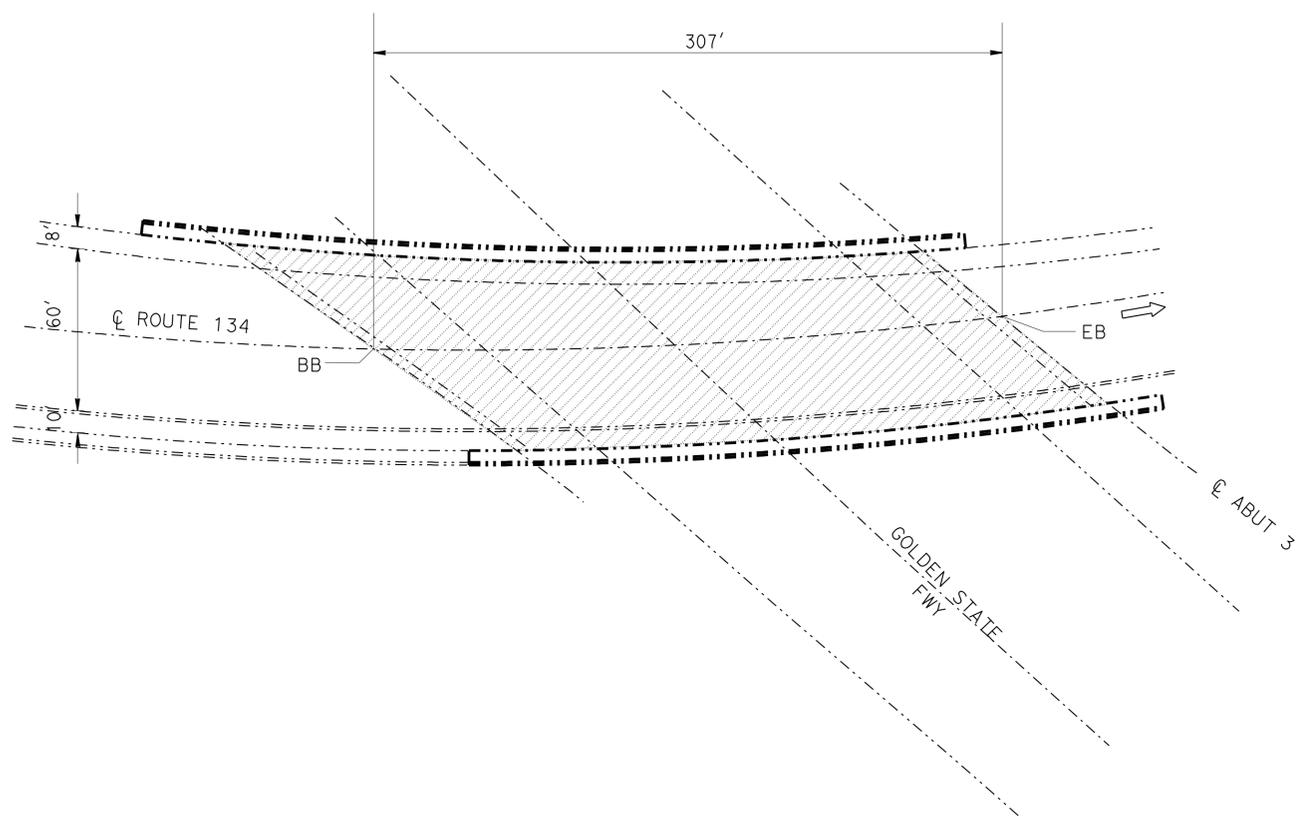
USERNAME => s1222436 DATE PLOTTED => 14-MAR-2014 TIME PLOTTED => 10:40

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	42	46

REGISTERED CIVIL ENGINEER DATE: 2-5-14
 PLANS APPROVAL DATE: 3-3-14
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 MAZIN S. IBRAHIM
 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
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.



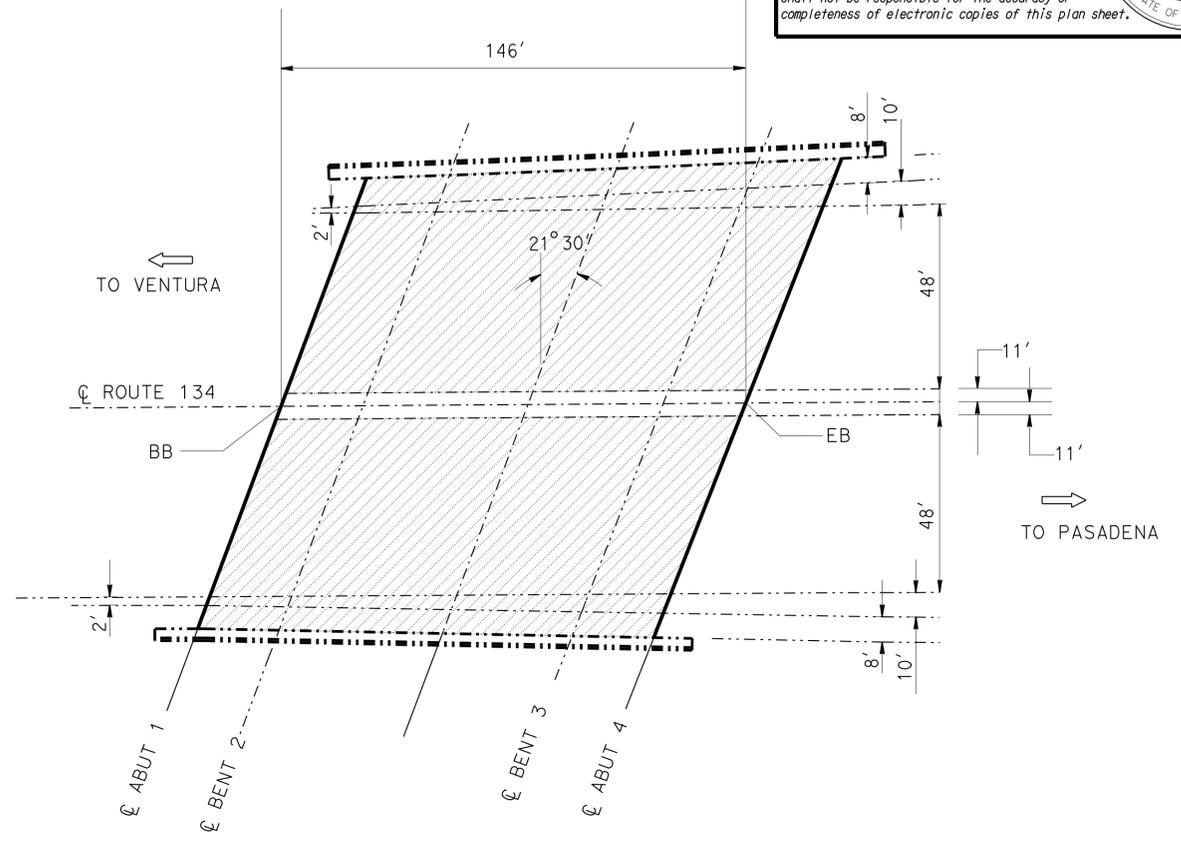
ROUTE 134/5 SEPARATION

Br No. 53-1074R, RTE 134, PM R5.47
NO SCALE



ROUTE 134/5 SEPARATION #53-1074R
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	23,970 SQFT
TREAT BRIDGE DECK	23,970 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	300 GAL



PACIFIC AVE UNDERCROSSING

Br No. 53-1746, RTE 134, PM R6.57
NO SCALE



PACIFIC AVE UC #53-1746
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	22,480 SQFT
TREAT BRIDGE DECK	22,480 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	281 GAL
CLEAN EXPANSION JOINT	318 LF
JOINT SEAL (MR 1/2")	318 LF

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

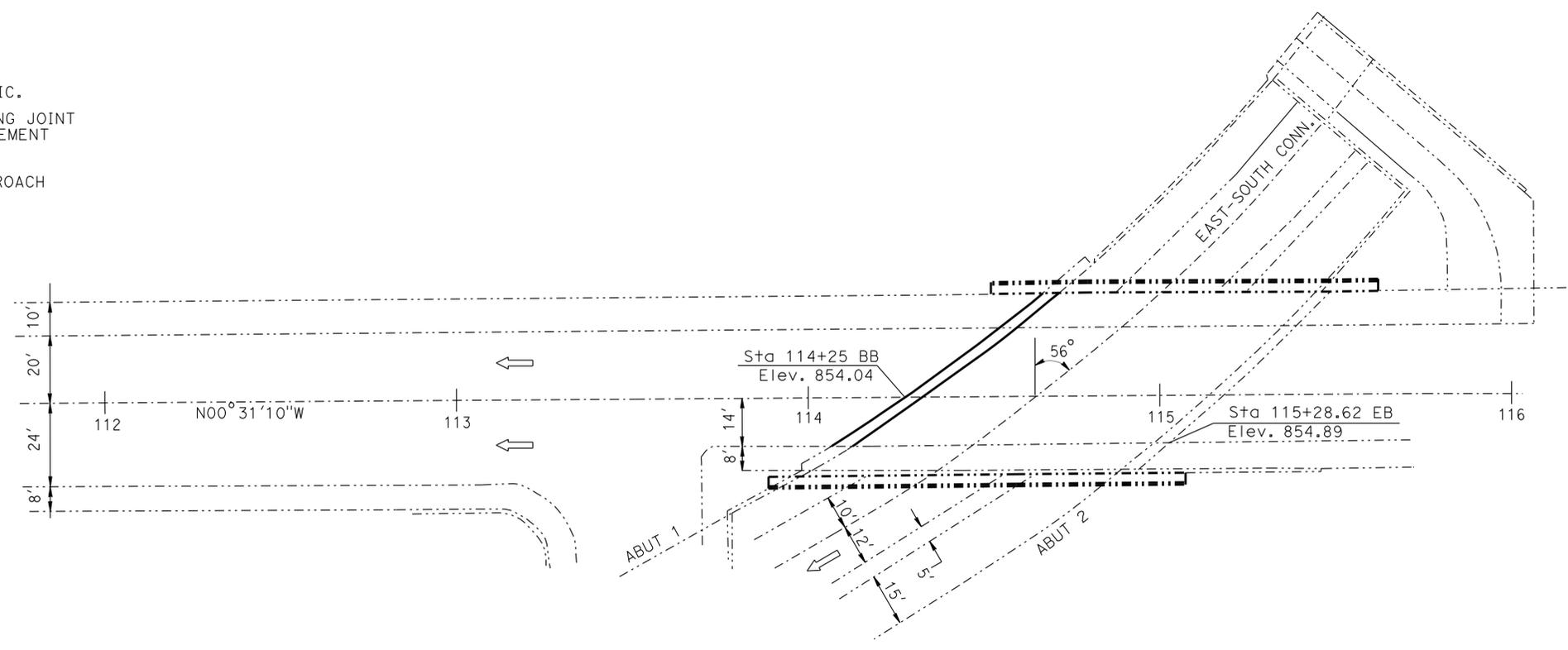
TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 101, 134 BRIDGES GENERAL PLAN NO. 12		
	DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	BY Eugene Goishi			CHECKED Mazin Ibrahim		POST MILE	
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi			PLANS AND SPECS COMPARED		Varies	
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 07120004511	CONTRACT NO.: 07-1W6504	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 4-22-13 6-4-13	SHEET 12 OF 16

USERNAME => s122436 DATE PLOTTED => 14-MAR-2014 TIME PLOTTED => 10:40

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	43	46

REGISTERED CIVIL ENGINEER DATE 2-5-14
 PLANS APPROVAL DATE 3-3-14
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA

- LEGEND:**
- INDICATES EXISTING
 - INDICATES DIRECTION OF TRAFFIC.
 - INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL CLEAN AND PLACEMENT OF NEW JOINT SEAL.
 - ▨ INDICATES NEW STRUCTURE APPROACH CONSTRUCTION.



ST JOHN AVE/E134-S710 OC
 Br No. 53-2265, RTE 134, PM 13.23
 NO SCALE



ST JOHN AVE/E134-S710 OC #53-2265
 QUANTITIES

CLEAN EXPANSION JOINT 158 LF
 JOINT SEAL (MR 1") 158 LF



ROUTE 134, 210/710, 210 SEPARATION
 Br No. 53-2317, RTE 134, PM R13.24
 NO SCALE



RTE 134, 210/710, 210 SEPARATION #53-2317
 QUANTITIES

CLEAN EXPANSION JOINT 180 LF
 JOINT SEAL (MR 1/2") 180 LF

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

TONY D. BRAKE
 DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim	LAYOUT	BY Eugene Goishi
QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	53-0617
POST MILE	2.86

**ROUTE 101, 134 BRIDGES
 GENERAL PLAN NO. 13**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489
 PROJECT NUMBER & PHASE: 07120004511

CONTRACT NO.: 07-1W6504

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
4-22-13 6-4-13	13	16

USERNAME => s122436 DATE PLOTTED => 14-MAR-2014 TIME PLOTTED => 10:40

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	44	46

REGISTERED CIVIL ENGINEER DATE		2-5-14
PLANS APPROVAL DATE		3-3-14
No.		C69896
Exp.		09/30/14
CIVIL		

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

JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION	MINIMUM "MR" (INCHES)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX LENGTH OF JOINT SEALS (FEET)
ALVARADO STREET SEP.	53-0617	ABUT 1	0.5	NO	6	136
		ABUT 2	0.5	NO	6	136
NORMANDIE AVE UC	53-0674	ABUT 1	0.5	NO	6	132
		ABUT 4	0.5	NO	6	132
WILTON PLACE OC	53-0731	ABUT 1	0.5	NO	6	79
		BENT 3	1	NO	6	79
		ABUT 5	0.5	NO	6	79
GOWER STREET UC	53-0679	ABUT 1	1	NO	8	128
		ABUT 2	1	NO	8	128
GOWER STREET OFF-RAMP	53-0865K	ABUT 1	1.5	NO	8	24
BURBANK BLVD UC	53-1056	ABUT 1	0.5	NO	6	156
		ABUT 2	0.5	NO	6	156
RIVERSIDE DRIVE OFF-RAMP OC	53-1493S	ABUT 1	1.5	NO	6	50
		BENT	1	YES	12	50
		BENT	1	YES	12	50
		ABUT 8	1.5	NO	6	50
VINELAND AVE UC	53-1272	ABUT 1	0.5	NO	6	18
		JOINT	0.5	NO	6	16
		JOINT	0.5	NO	6	13
CAHUENGA BLVD UC	53-1274	ABUT 3	0.5	NO	6	8
		ABUT 1	0.5	NO	6	96
PASS AVE OC	53-1277	ABUT 2	0.5	NO	6	96
		ABUT 1	1	YES	8	78
ALAMEDA AVE OC	53-1278	ABUT 3	1	YES	8	78
		ABUT 1	1.5	NO	8	179
HOLLYWOOD WAY OC	53-1279	ABUT 1	1.5	NO	8	107
LOS ANGELES RIVER	53-1285	ABUT 1	1	NO	6	300
		ABUT 3	1	NO	6	300
ST JOHN AVE / E134-S710 OC	53-2265	BW ABUT 1	1	NO	6	79
		ABUT 1	1	NO	6	79
134, 210/710, 210 SEPARATION	53-2317	ABUT 8	0.5	NO	6	180
W134-5 CONNECTOR BOH	53-1790H	AT NORTHERN ABUT	0.5	NO	8	79
		AT HINGE C SPAN 15	1.5	YES	12	58
		AT HINGE C SPAN 25	1.5	YES	12	50
PACIFIC AVE UC	53-1746	ABUT 1	0.5	NO	6	150
		ABUT 4	0.5	NO	6	168

NOTES:

The following notes apply to JOINT SEAL TYPE A:

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

For details not shown see RSP B6-21 sheet.

The following notes apply to JOINT SEAL TYPE B:

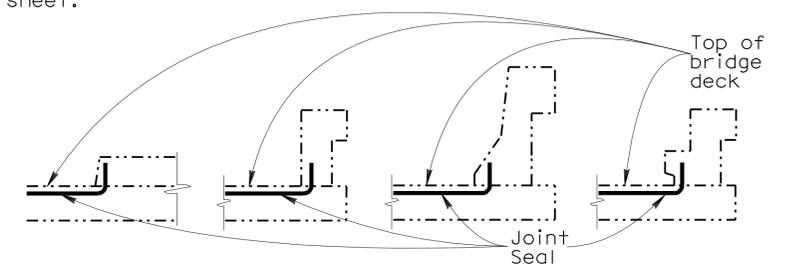
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

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.

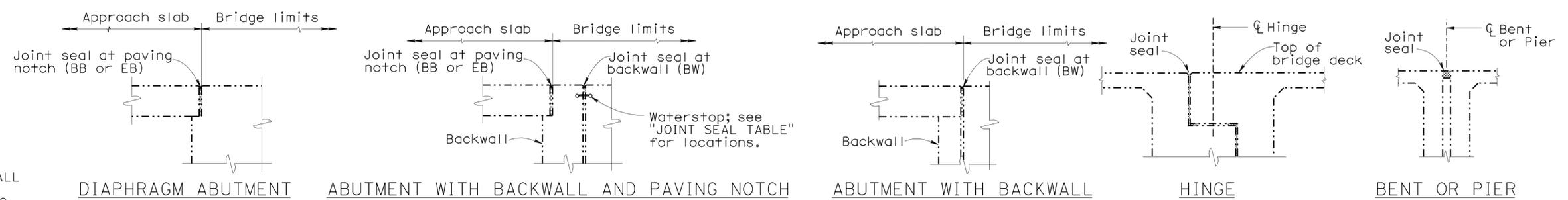
For details not shown see B6-21 sheet.



BARRIER RAIL
JOINT SEAL AT LOW SIDE OF DECK

Note: Details shown for illustration purposes only.

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



JOINT SEAL LOCATION

NO SCALE

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

DESIGN	BY	Mazin Ibrahim	CHECKED	Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 101,134 BRIDGES			
	DETAILS	BY	Eugene Goishi	CHECKED			Ramesh Patel			POST MILE	Varies	MISCELLANEOUS DETAILS NO. 1
	QUANTITIES	BY	Mazin Ibrahim	CHECKED			Ramesh Patel			REVISION DATES		

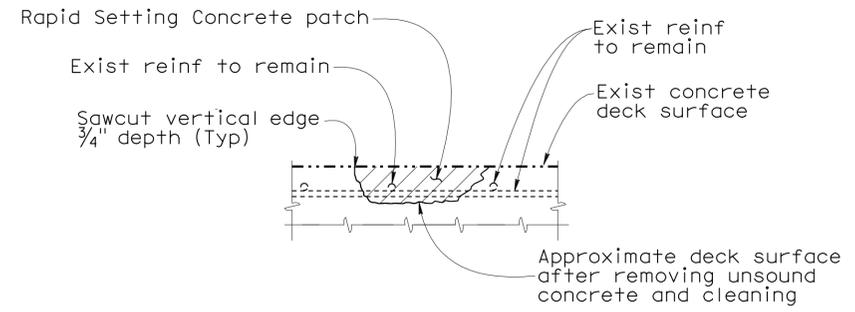
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 0712000451 EA 07-1W6501 DISREGARD PRINTS BEARING EARLIER REVISION DATES

USERNAME => s122436 DATE PLOTTED => 14-MAR-2014 TIME PLOTTED => 10:40

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101,134	Var	45	46

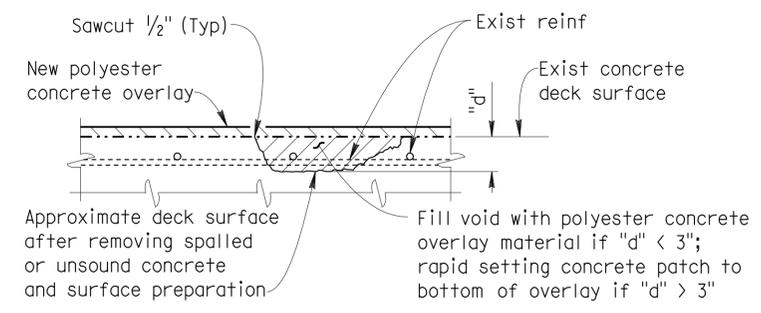
 REGISTERED CIVIL ENGINEER DATE 2-5-14		
PLANS APPROVAL DATE 3-3-14		

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.



DECK DAMAGE REPAIR DETAIL

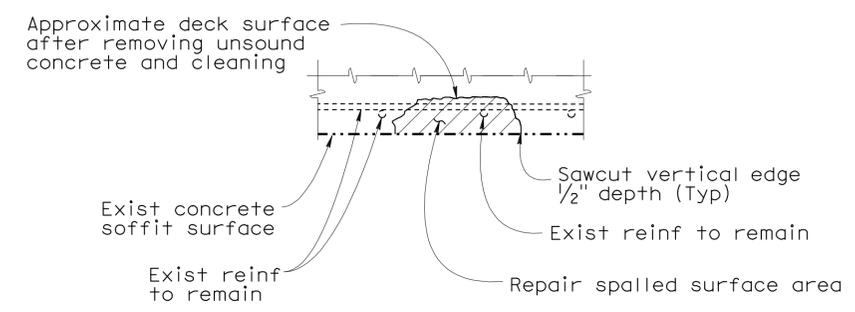
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



DECK REPAIR DETAIL - OVERLAY

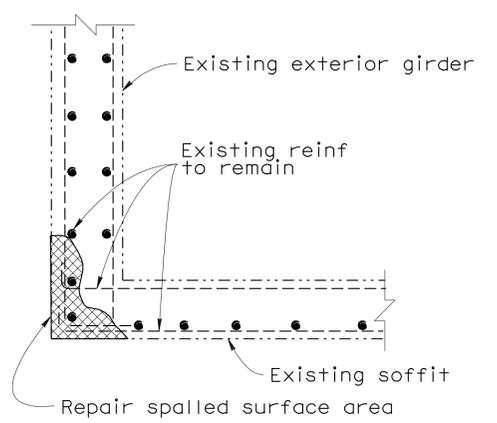
(Br No. 53-0468)
Reinforcement may be encountered during deck concrete removal.

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



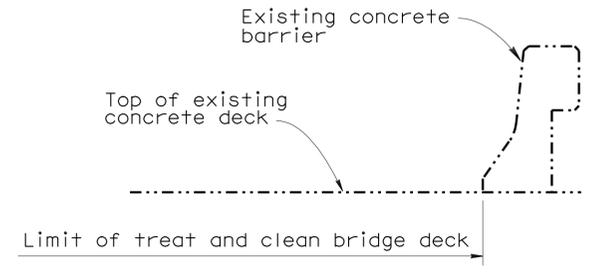
SOFFIT SPALL REPAIR DETAIL

Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

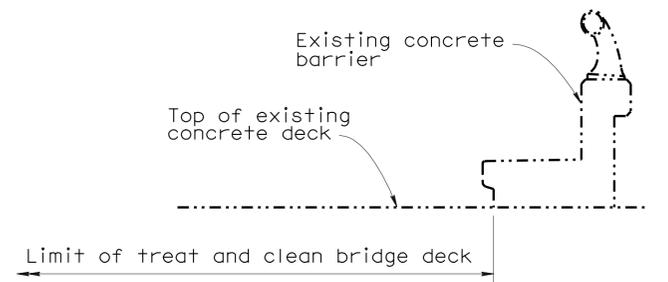


SPALLED SURFACE AREA DETAIL

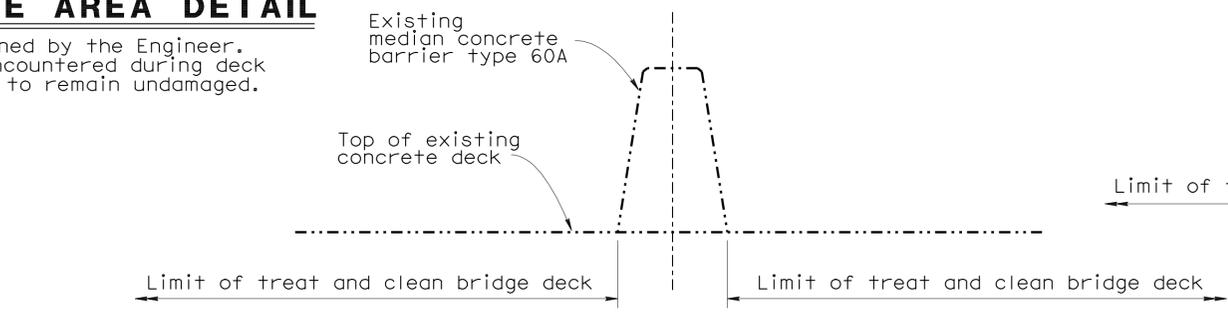
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



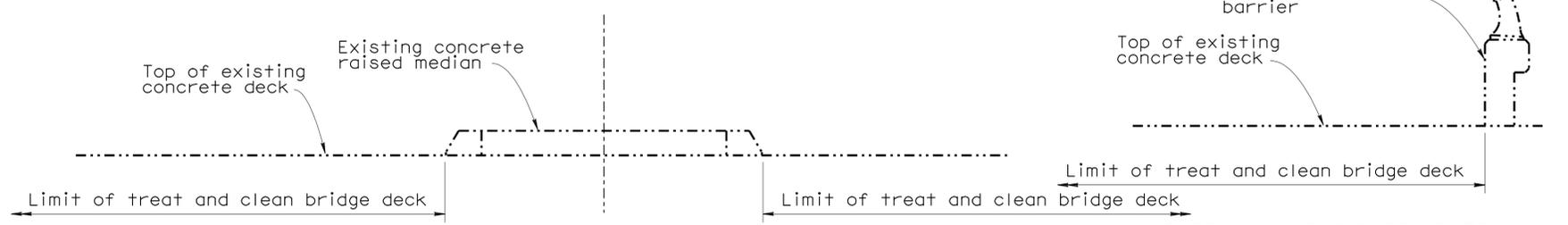
EOD BARRIER



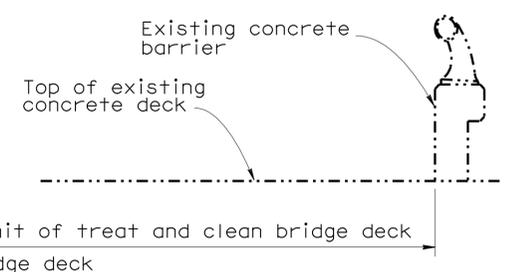
SIDEWALK BARRIER TYPE 2



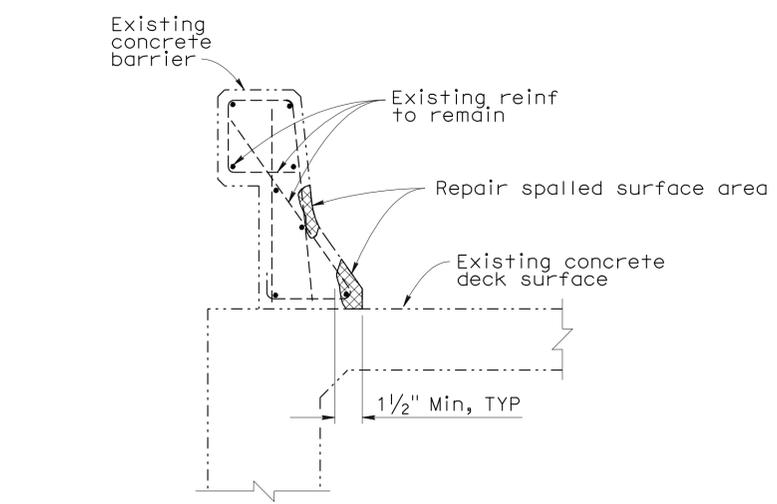
MEDIAN BARRIER



RAISED MEDIAN



SIDEWALK BARRIER TYPE 1



CONCRETE BARRIER SPALL REPAIR DETAIL

Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



TYPICAL LIMITS OF DECK WORK

NO SCALE

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

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel
DETAILS	BY Eugene Goishi	CHECKED Mazin Ibrahim
QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTE 101,134 BRIDGES
MISCELLANEOUS DETAILS NO. 2

USERNAME => s122436 DATE PLOTTED => 14-MAR-2014 TIME PLOTTED => 10:40

