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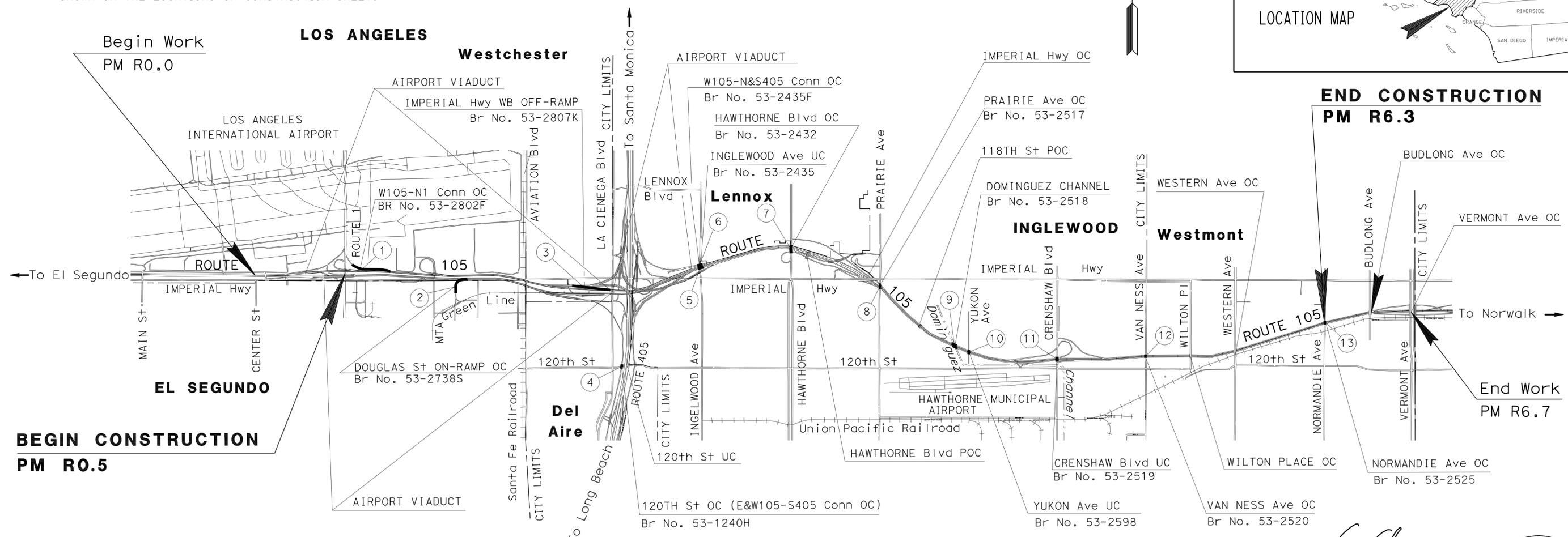
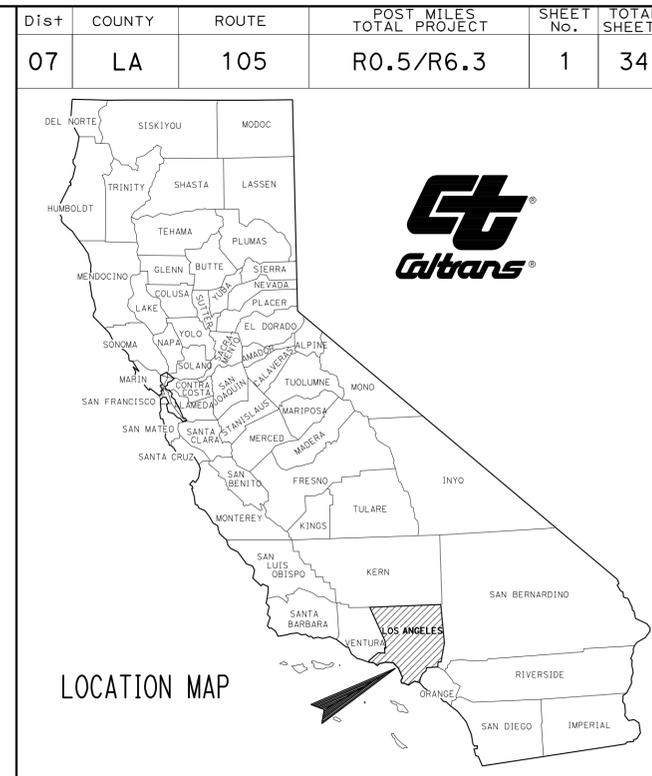
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

NOTE:

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

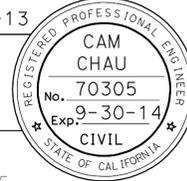
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN LOS ANGELES COUNTY  
IN LOS ANGELES, INGLEWOOD, AND HAWTHORNE  
FROM ROUTE 1  
TO NORMANDIE AVENUE OVERCROSSING**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER	CHRISTIAN SAM
DESIGN ENGINEER	SHAWN ENJILY

10-28-13  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER  
**October 28, 2013**  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONTRACT No.	<b>07-1W5804</b>
PROJECT ID	<b>0712000359</b>

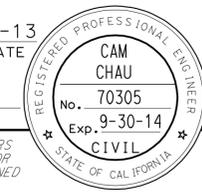
DATE PLOTTED => 05-NOV-2013 TIME PLOTTED => 10:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	R0.5/R6.3	2	34

 10-28-13  
 REGISTERED CIVIL ENGINEER DATE

10-28-13  
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR  
 SHAWN ENJILY

CALCULATED/DESIGNED BY  
 CHECKED BY

CAM CHAU  
 SHAWN ENJILY

REVISED BY  
 DATE REVISED

LOCATIONS OF CONSTRUCTION			
Loc	PM	BRIDGE No.	DESCRIPTION
①	R0.53	53-2802F	W105-N1 CONNECTOR OC
②	R1.20	53-2738S	DOUGLAS STREET ON-RAMP OC
③	R1.79	53-2807K	IMPERIAL HIGHWAY WB OFF-RAMP
④	R2.05	53-1240H	120TH STREET OC (E&W105-S405 CONNECTOR OC)
⑤	R2.53	53-2435	INGLEWOOD AVENUE UC
⑥	R2.53	53-2435F	W105-N&S405 CONNECTOR OC
⑦	R3.05	53-2432	HAWTHORNE Blvd OC
⑧	R3.62	53-2517	PRAIRIE AVENUE OC
⑨	R4.16	53-2518	DOMINGUEZ CHANNEL
⑩	R4.23	53-2598	YUKON AVENUE UC
⑪	R4.73	53-2519	CRENSHAW Blvd UC
⑫	R5.23	53-2520	VAN NESS AVENUE OC
⑬	R6.25	53-2525	NORMANDIE AVENUE OC

**LOCATIONS OF CONSTRUCTION**

**LC-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	3	34

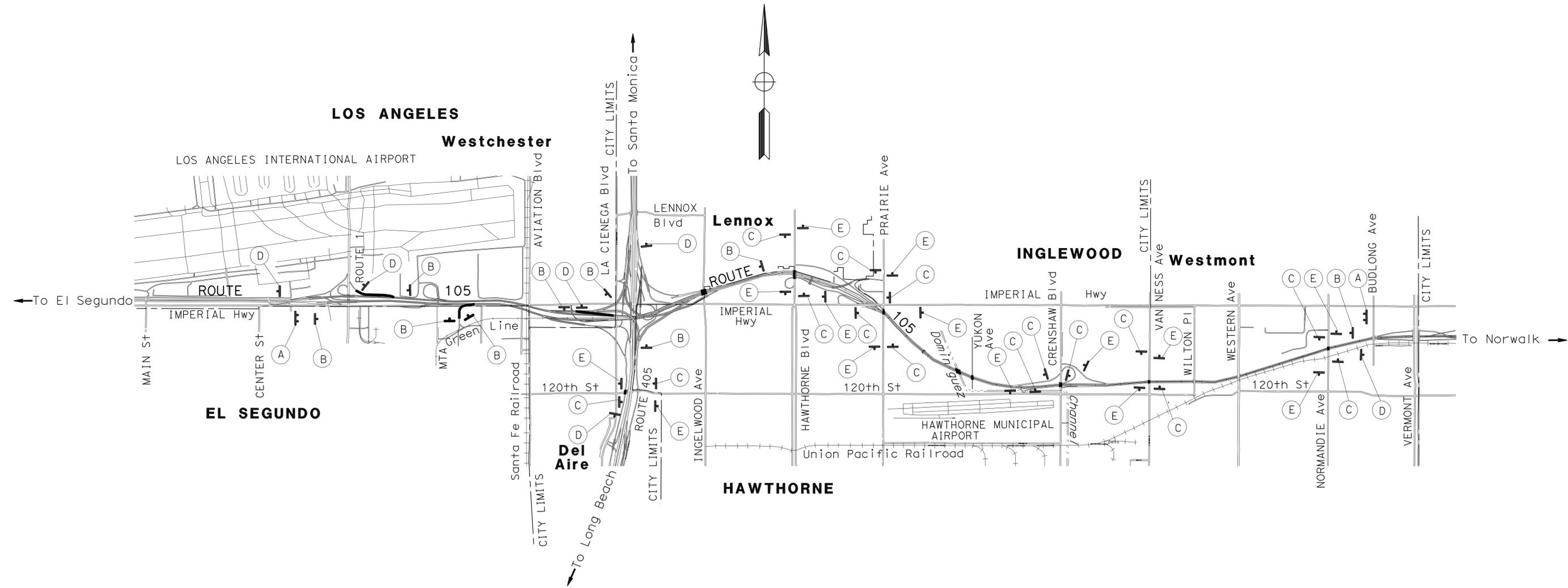
10-28-13  
 REGISTERED CIVIL ENGINEER DATE  
 10-28-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 CAM CHAU  
 No. 70305  
 Exp. 9-30-14  
 CIVIL  
 STATE OF CALIFORNIA

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- NOTES:**
1. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER
  2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THE PLAN.

SIGN NUMBER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)		C40	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 6"	2
(B)	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	9
(C)	W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	15
(D)	G20-2		48" x 24"	END ROAD WORK	1 - 4" x 6"	6
(E)	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	14



**CONSTRUCTION AREA SIGNS**  
NO SCALE

**CS-1**

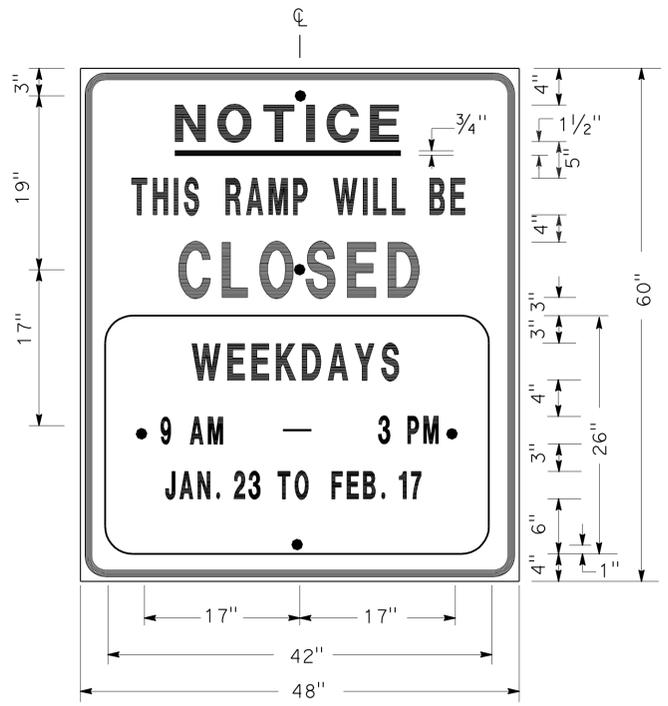
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR: SHAWN ENJILY  
 CALCULATED/DESIGNED BY: CAM CHAU  
 CHECKED BY: SHAWN ENJILY  
 REVISED BY: CAM CHAU  
 DATE REVISED: SHAWN ENJILY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	4	34

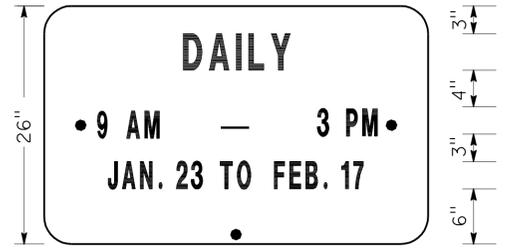
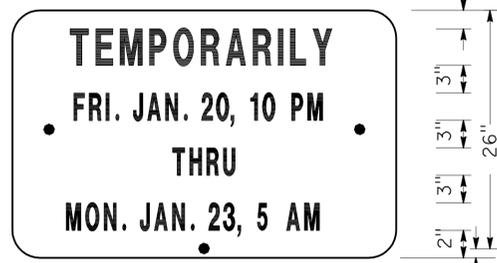
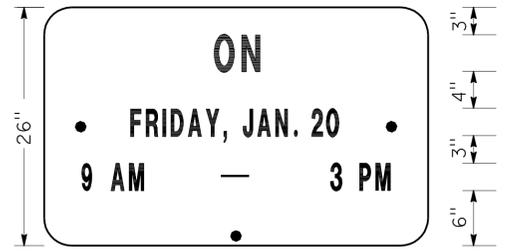
10-28-13  
 REGISTERED CIVIL ENGINEER DATE  
 10-28-13  
 PLANS APPROVAL DATE

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

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SIGN SP-1



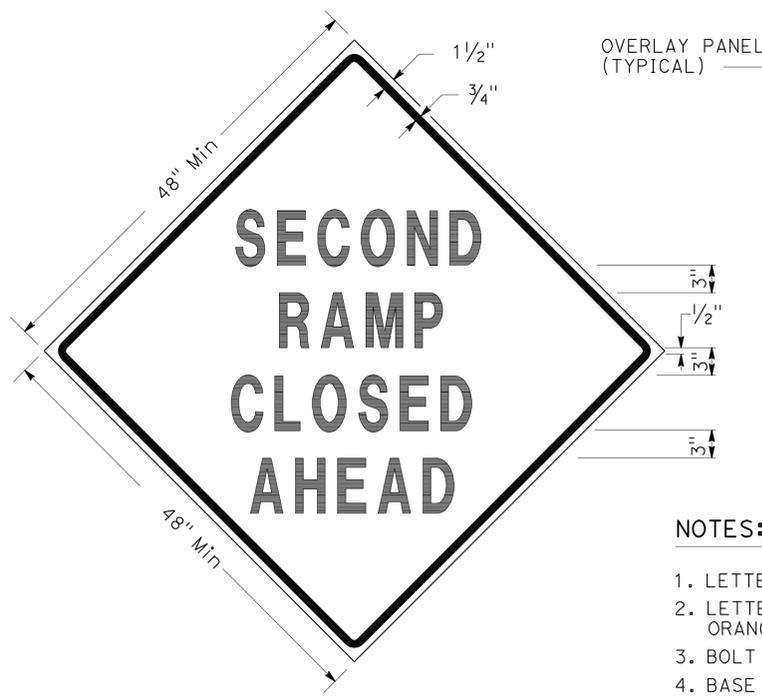
ALTERNATE OVERLAY PANELS (TYPICAL)

- 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**



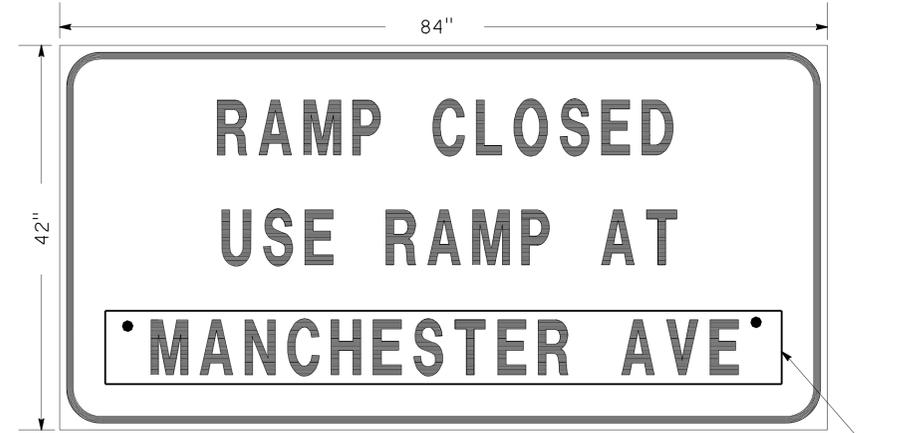
SIGN SP-3



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 STANDARD PLAN RSP T14.

**SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES**

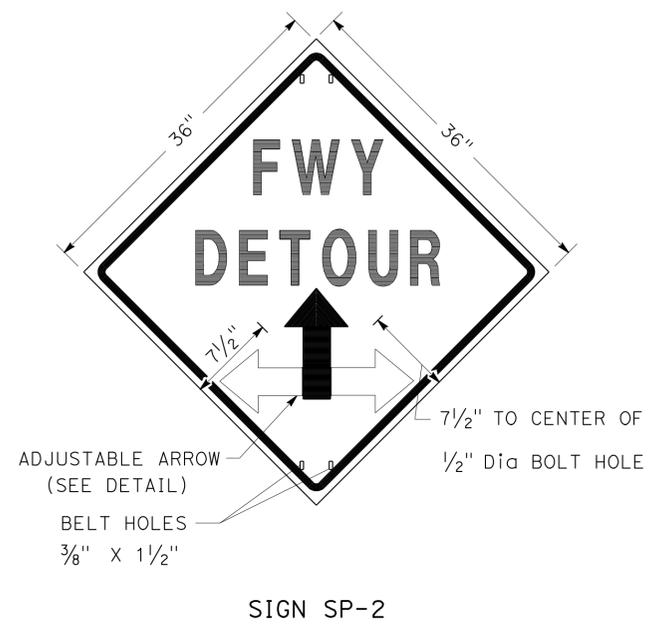
**TRAFFIC HANDLING DETAILS  
 TRAFFIC CONTROL SYSTEM  
 FOR RAMP CLOSURES, DETOUR SIGNS,  
 AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

NO SCALE

THD-1

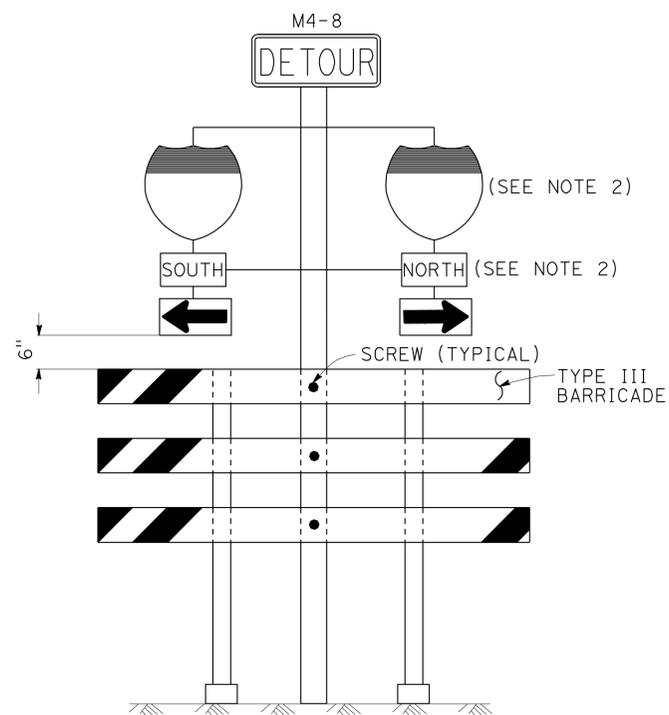
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DTM  
 Caltrans®  
 FUNCTIONAL SUPERVISOR JOHN YANG  
 CHECKED BY JOCELYN C CHIANG  
 DESIGNED BY ALBERT K YU  
 REVISIONS BY JC  
 DATE 3/12



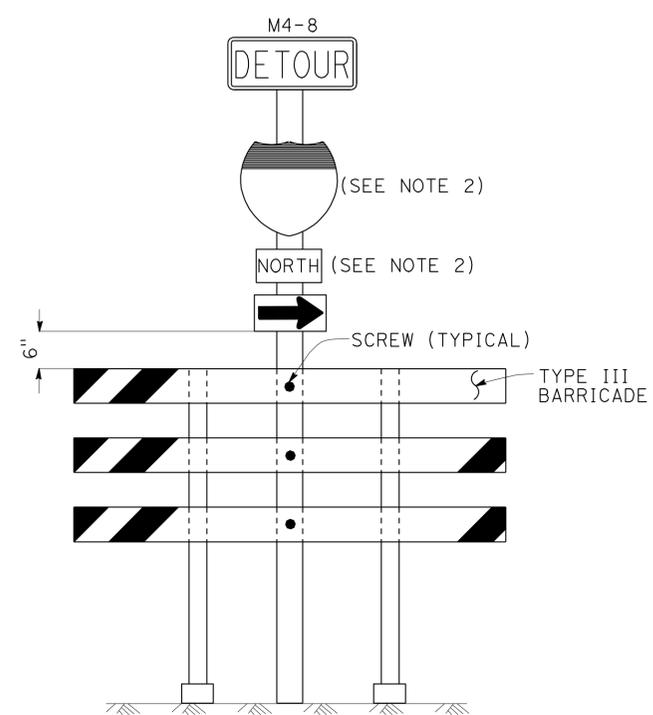
- NOTES: SIGN SP-2**
- LETTERS - 6" SERIES E.
  - LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
  - BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
  - BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
  - 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)**

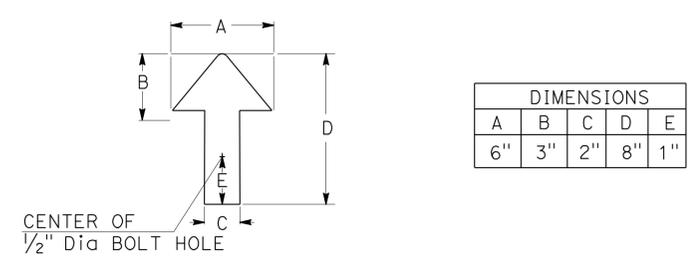


**SIGN SP-7 (SEE NOTE 1)**

**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**



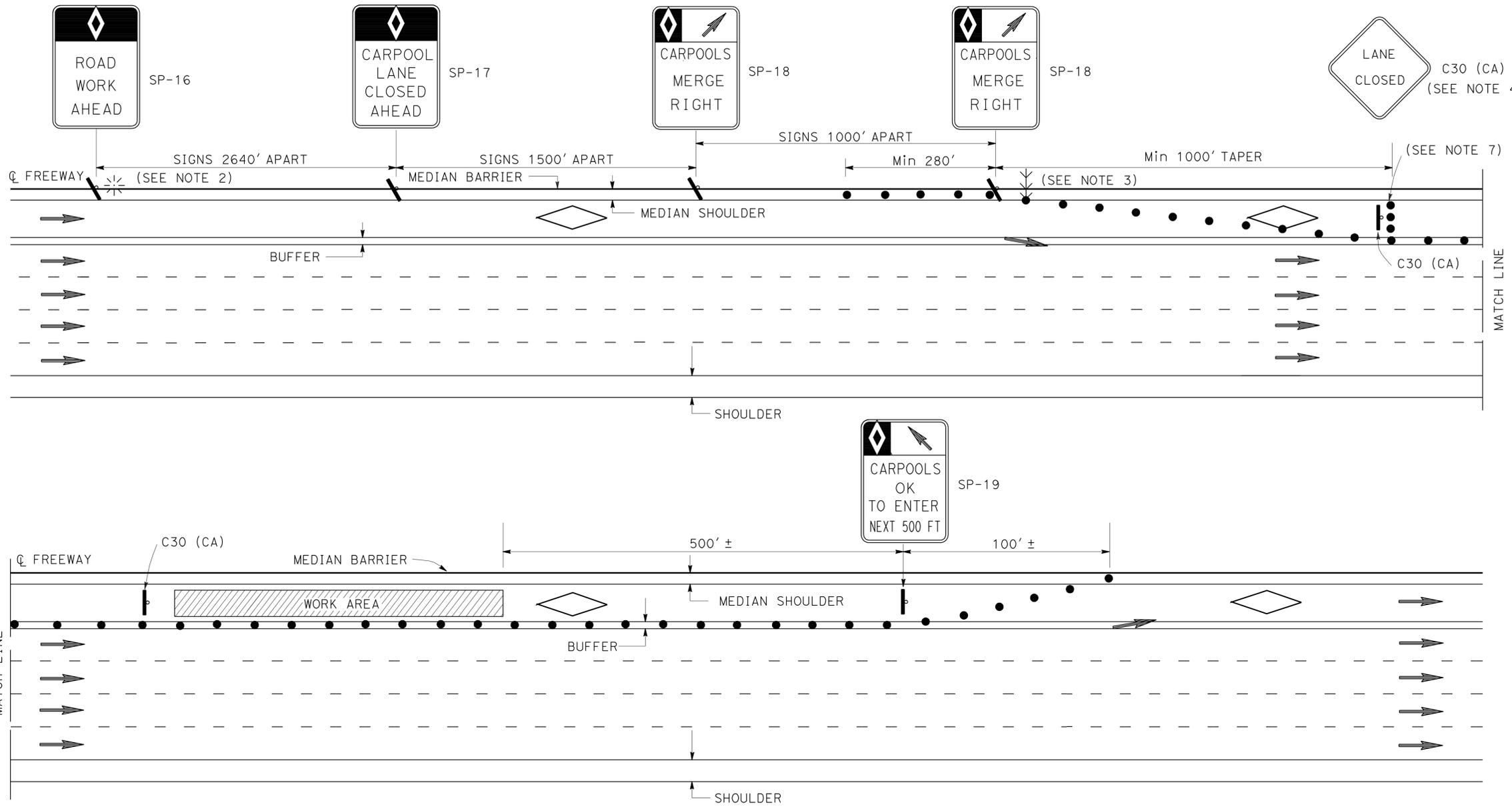
**ADJUSTABLE ARROW DETAIL**

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

**THD-2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	R0.5/R6.3	6	34
			10-28-13	DATE	
REGISTERED CIVIL ENGINEER			ALBERT K. YU		
No. 43220			Exp. 3/31/14		
CIVIL			STATE OF CALIFORNIA		
<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**  
 DT M  
 FUNCTIONAL SUPERVISOR JOHN YANG  
 CHECKED BY JOCELYN C CHIANG  
 DESIGNED BY ALBERT K YU  
 REVISED BY JC  
 DATE 3/12



- 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.

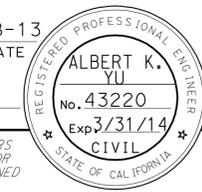
**TRAFFIC HANDLING DETAILS  
 TRAFFIC CONTROL SYSTEM  
 FOR HIGH OCCUPANCY VEHICLE LANES  
 AT NON-INGRESS/EGRESS AREAS  
 CASE I**

NO SCALE

**THD-3**

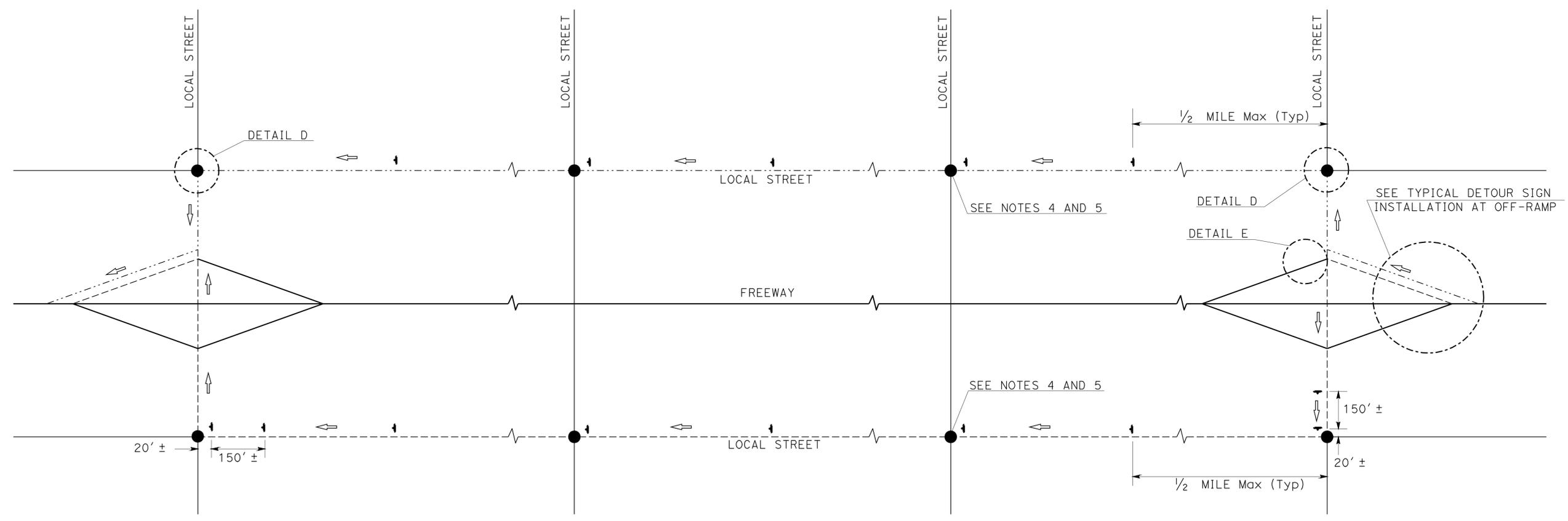
LAST REVISION: DATE PLOTTED => 05-NOV-2013  
 10-28-13 TIME PLOTTED => 10:56



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	8	34
 REGISTERED CIVIL ENGINEER DATE 10-28-13					
10-28-13 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

- 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-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTM  
 FUNCTIONAL SUPERVISOR: JOHN YANG  
 CALCULATED/DESIGNED BY: ALBERT K YU  
 CHECKED BY: JOCELYN C CHIANG  
 REVISED BY: JC  
 DATE REVISED: 3/12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	R0.5/R6.3	9	34

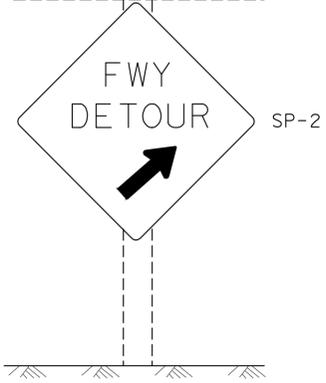
10-28-10  
 REGISTERED CIVIL ENGINEER DATE  
 10-28-13  
 PLANS APPROVAL DATE

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

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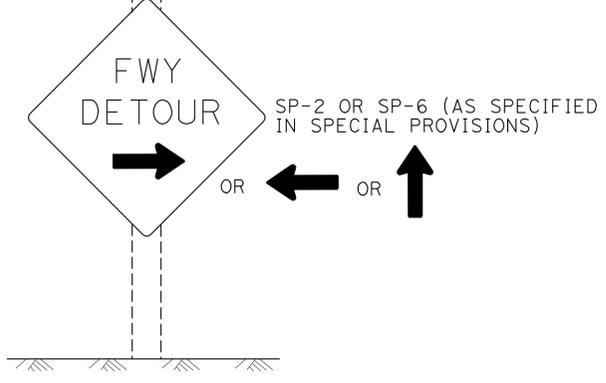
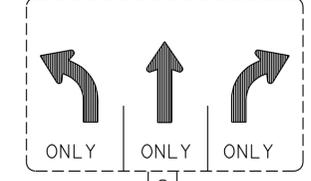


Exist E5-1, G84-2 (CA) OR G84-3 (CA)

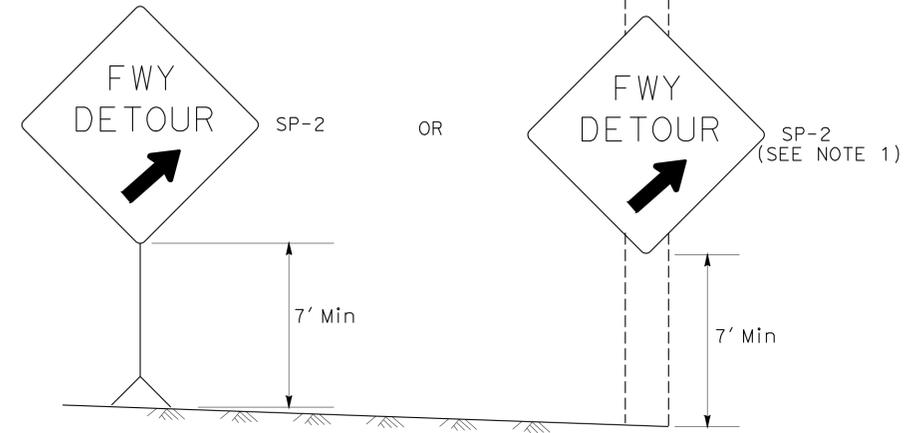


DETAIL B (SEE NOTE 3)

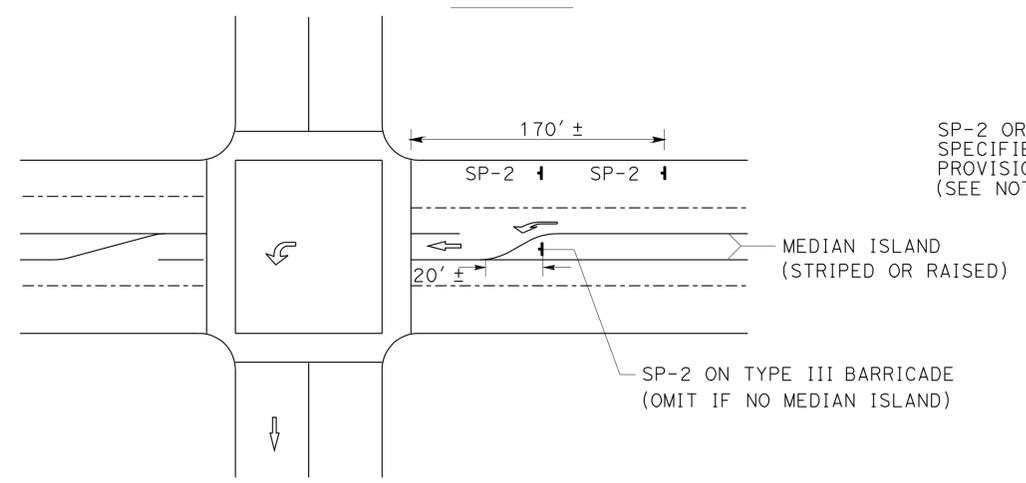
Exist R3-8 SERIES



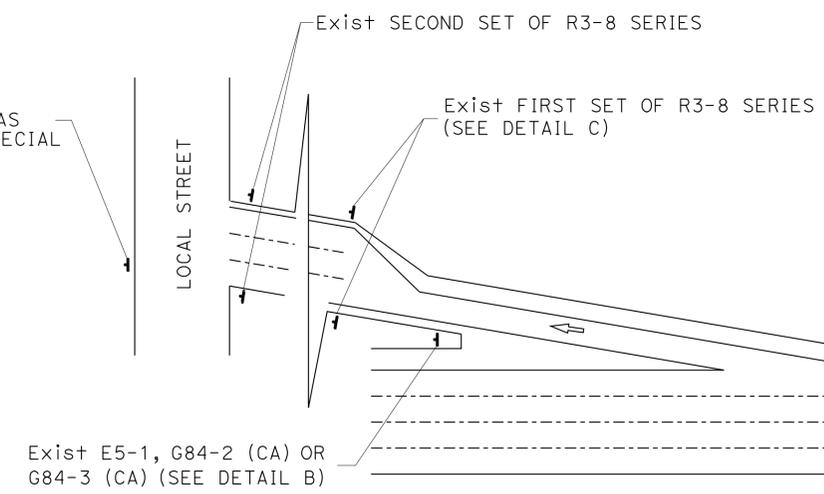
DETAIL C (SEE NOTES 4, 5, AND 6)



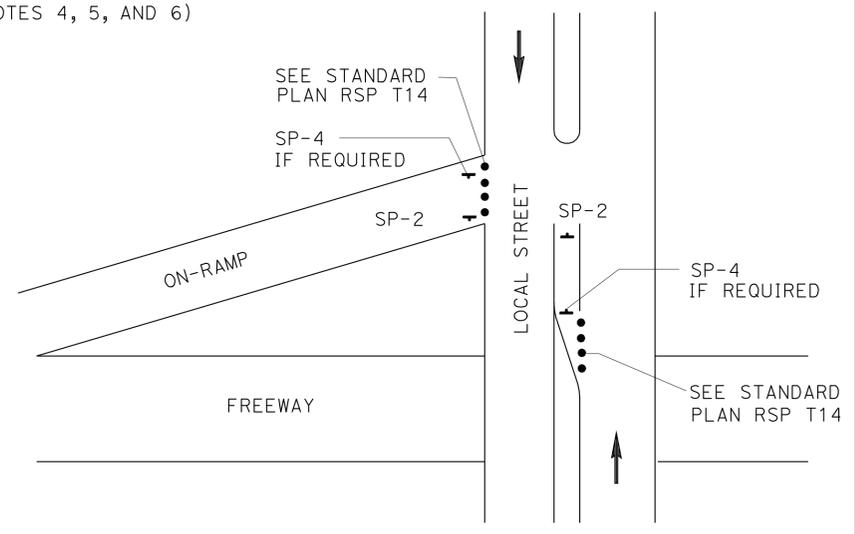
DETAIL A (SEE NOTE 3)



DETAIL D



**TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP**



DETAIL E

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

**SIGN CODE LEGEND**

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

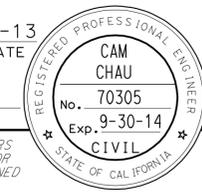
**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR DETOUR SIGN INSTALLATION  
ALONG DESIGNATED DETOUR ROUTE  
SHEET 2 OF 2**

NO SCALE **THD-6**

**NOTES: SIGN SP-2**

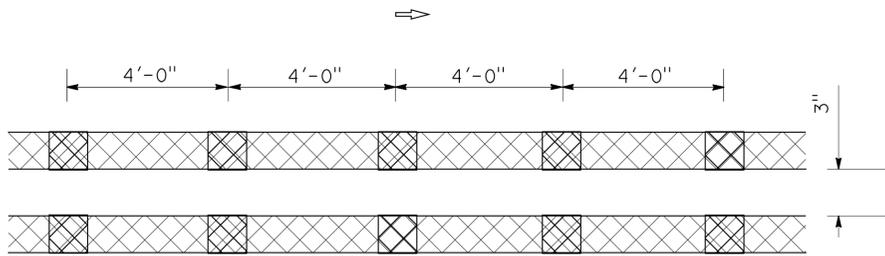
1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. OMIT DETAILS A AND B FOR FULL FREEWAY CLOSURES.
4. SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**DTM**  
 ALBERT K YU  
 JOCELYN C CHIANG  
 JOHN YANG  
 JC  
 3/12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	10	34
			10-28-13	DATE	
			REGISTERED CIVIL ENGINEER	DATE	
			10-28-13	PLANS APPROVAL DATE	
					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

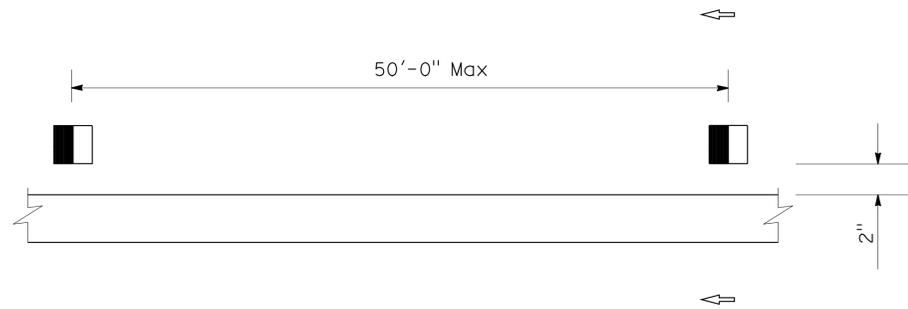
**LEGEND:**

-  4" WHITE THERMOPLASTIC TRAFFIC STRIPE
-  4" YELLOW THERMOPLASTIC TRAFFIC STRIPE
-  TYPE D TWO-WAY YELLOW RETROREFLECTIVE PAVEMENT MARKER
-  TYPE G ONE-WAY CLEAR RETROREFLECTIVE PAVEMENT MARKER
-  TYPE H ONE-WAY YELLOW RETROREFLECTIVE PAVEMENT MARKER
-  DIRECTION OF TRAVEL



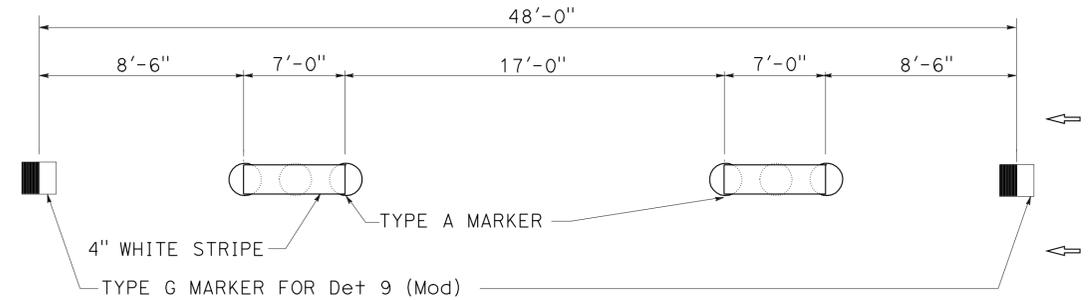
**DETAIL 22 (MODIFIED)**

HAWTHORNE Blvd OC, Br No. 53-2432



**DETAIL 50**

W105-N1 CONNECTOR OC, Br No. 53-2802F

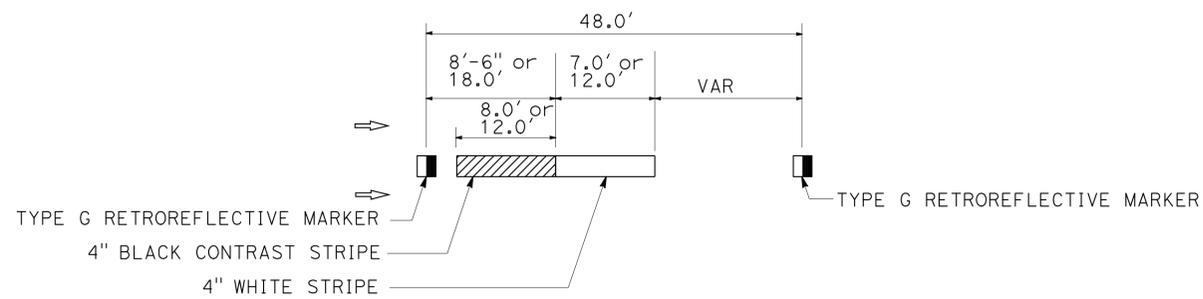


**NOTES:**

1. REMOVE PAVEMENT MARKERS.
2. PLACE MARKERS AS SHOWN IN THIS DETAIL.
3. APPLY 4" WIDE THERMOPLASTIC TRAFFIC STRIPE ON TOP OF TYPE A NON-REFLECTIVE MARKERS.

**DETAIL 9 (MODIFIED)**

HAWTHORNE Blvd OC, Br No. 53-2432



**TEMPORARY LANE LINE PAVEMENT DELINEATION**

FOR DETAILS 9, 9 (Mod) AND 13 (Mod)

**PAVEMENT DELINEATION DETAILS**

NO SCALE

**PDD-1**

REVISOR  
 CAM CHAU  
 SHAWN ENJILY

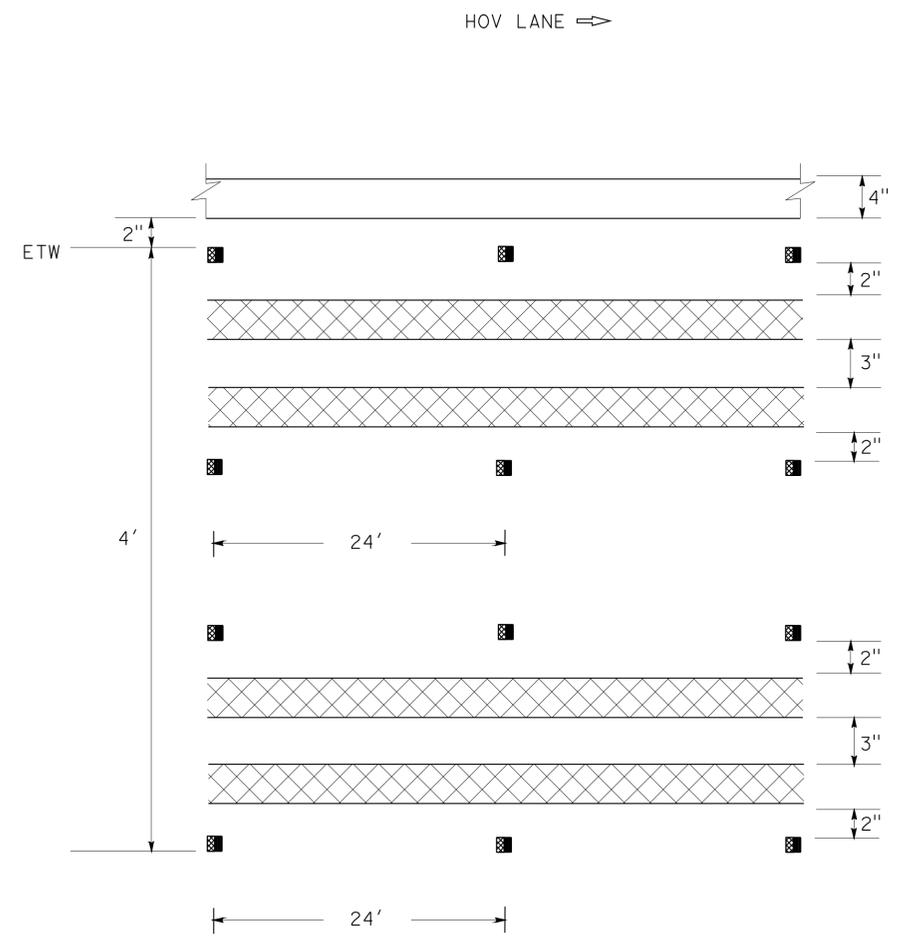
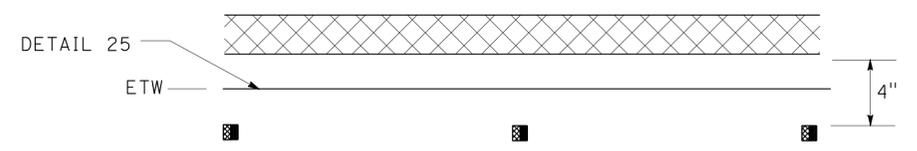
DESIGNER  
 CAM CHAU  
 SHAWN ENJILY

FUNCTIONAL SUPERVISOR  
 SHAWN ENJILY

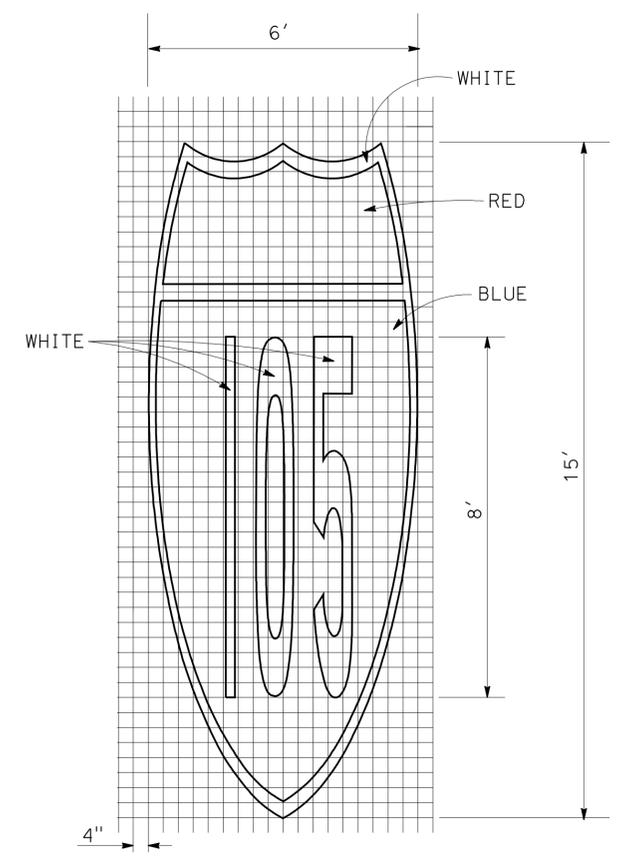
DATE  
 10-28-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	11	34

10-28-13  
 REGISTERED CIVIL ENGINEER DATE  
 10-28-13  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



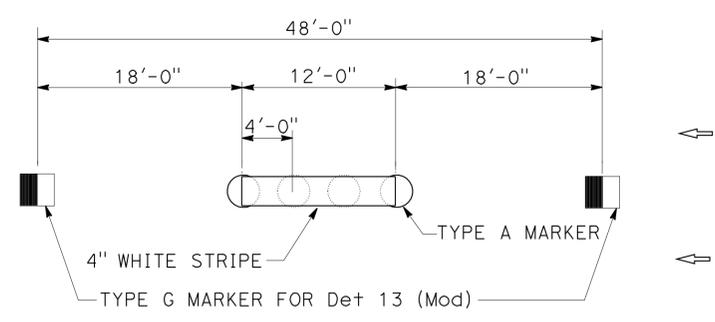
**HOV BUFFER STRIPING DETAIL**



**ELONGATED ROUTE SHIELD**

FEDERAL STANDARD 595 COLOR CODE:  
 RED - #31136  
 WHITE - #37925  
 BLUE - #35180

A=(RED) = 12 SQFT  
 A=(WHITE) = 18.8 SQFT  
 A=(BLUE) = 40 SQFT



- NOTES:**
1. REMOVE PAVEMENT MARKERS.
  2. PLACE MARKERS AS SHOWN IN THIS DETAIL.
  3. APPLY 4" WIDE THERMOPLASTIC TRAFFIC STRIPE ON TOP OF TYPE A NON-REFLECTIVE MARKERS.

**Det 13 (MODIFIED)**

**PAVEMENT DELINEATION DETAILS**

NO SCALE

**PDD-2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	12	34

 10-28-13  
 REGISTERED CIVIL ENGINEER DATE

10-28-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**CAM CHAU**  
 No. 70305  
 Exp. 9-30-14  
 CIVIL

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR SHAWN ENJILY  
 CALCULATED/DESIGNED BY SHAWN ENJILY  
 CHECKED BY  
 CAM CHAU  
 SHAWN ENJILY  
 REVISED BY  
 DATE REVISED

LOCATIONS OF CONSTRUCTION								THERMOPLASTIC TRAFFIC STRIPE											
								DETAIL 8	DETAIL 9 OR DETAIL 9 (Mod)	DETAIL 13 (Mod)	DETAIL 40	DETAIL 27B	DETAIL 22 OR DETAIL 22 (Mod)	DETAIL 25	DETAIL 25A	DETAIL 29	DETAIL HOV	DETAIL 50	
Loc	PM	BRIDGE No.	DESCRIPTION	LF	LF	EA	SQFT	4" WHITE (BROKEN 17-7)	4" WHITE (BROKEN 17-7)	4" WHITE (BROKEN 36-12)	4" WHITE (BROKEN 6-1)	4" WHITE (SOLID)	4" DOUBLE YELLOW (SOLID)	4" YELLOW (SOLID)	4" YELLOW (SOLID)	4" DOUBLE YELLOW (SOLID)	4" TWO DOUBLE YELLOW (SOLID)	4" WHITE (SOLID)	
①	R0.53	53-2802F	W105-N1 CONNECTOR OC	1,335	2,801	117	792		2,562		249	1,768				1,335			210
②	R1.20	53-2738S	DOUGLAS STREET ON-RAMP OC	602	685	33	24		285			602				602			
③	R1.79	53-2807K	IMPERIAL HIGHWAY WB OFF-RAMP	866	1,335	72			1,609			865				865			
④	R2.05	53-1240H	120TH STREET OC (E&W105-S405 CONNECTOR OC)																
⑤	R2.53	53-2435	INGLEWOOD AVENUE UC	1,490	745	116				596		596		298				596	
⑥	R2.53	53-2435F	W105-N&S405 CONNECTOR OC	141	458	33				141		141				141			
⑦	R3.05	53-2432	HAWTHORNE BOULEVARD OC	718	1,921	490	12		1,436		30	359				718			
⑧	R3.62	53-2517	PRAIRIE AVENUE OC	2,680	1,488	545	131		1,880			940	360				980		
⑨	R4.16	53-2518	DOMINGUEZ CHANNEL	1,670	969	152				668		668		334				668	
⑩	R4.23	53-2598	YUKON AVENUE UC	1,201	889	111	186			480		480		240				480	
⑪	R4.73	53-2519	CRENSHAW BOULEVARD UC	2,891	2,331	249		100		1,156		1,056		578				1,156	
⑫	R5.23	53-2520	VAN NESS AVENUE OC	548	160	35			548				274						
⑬	R6.25	53-2525	NORMANDIE AVENUE OC	602	176	39	140		602				301						
SUBTOTAL				14,744	13,958	1,992	1,285	100	8,922	3,041	279	7,475	935	1,450	3,661	980	2,900	210	
TOTAL				14,744	13,958	1,992	1,285	9,022		3,041	279	17,611							

## PAVEMENT DELINEATION QUANTITIES

**PDQ-1**

LAST REVISION | DATE PLOTTED => 05-NOV-2013  
 10-28-13 | TIME PLOTTED => 10:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	13	34

 10-28-13  
 REGISTERED CIVIL ENGINEER DATE

10-28-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**CAM CHAU**  
 No. 70305  
 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.

### THERMOPLASTIC TRAFFIC STRIPE

LOCATIONS OF CONSTRUCTION				DETAIL 36A	DETAIL 36B	DETAIL 38B	DETAIL 37	DETAIL 37B
				8" WHITE (SOLID)	8" WHITE (SOLID)	8" WHITE (SOLID)	8" WHITE (BROKEN 12-3)	8" WHITE (BROKEN 12-3)
Loc	PM	BRIDGE No.	DESCRIPTION	LF	LF	LF	LF	LF
①	R0.53	53-2802F	W105-N1 CONNECTOR OC					
②	R1.20	53-2738S	DOUGLAS STREET ON-RAMP OC					
③	R1.79	53-2807K	IMPERIAL HIGHWAY WB OFF-RAMP					
④	R2.05	53-1240H	120TH STREET OC (E&W105-S405 CONNECTOR OC)					
⑤	R2.53	53-2435	INGLEWOOD AVENUE UC					
⑥	R2.53	53-2435F	W105-N&S405 CONNECTOR OC			141		
⑦	R3.05	53-2432	HAWTHORNE BOULEVARD OC			485		
⑧	R3.62	53-2517	PRAIRIE AVENUE OC					359
⑨	R4.16	53-2518	DOMINGUEZ CHANNEL				334	
⑩	R4.23	53-2598	YUKON AVENUE UC			120	120	
⑪	R4.73	53-2519	CRENSHAW BOULEVARD UC	189	289			
⑫	R5.23	53-2520	VAN NESS AVENUE OC					
⑬	R6.25	53-2525	NORMANDIE AVENUE OC					
<b>SUBTOTAL</b>				189	289	746	454	359
<b>TOTAL</b>				1,224			813	

## PAVEMENT DELINEATION QUANTITIES

**PDQ-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR: SHAWN ENJILY  
 CALCULATED/DESIGNED BY: SHAWN ENJILY  
 CAM CHAU  
 SHAWN ENJILY  
 REVISED BY: DATE  
 REVISED BY: DATE

LAST REVISION | DATE PLOTTED => 05-NOV-2013  
 10-28-13 | TIME PLOTTED => 10:57



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	15	34

 10-28-13  
 REGISTERED CIVIL ENGINEER DATE

10-28-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**CAM CHAU**  
 No. 70305  
 Exp. 9-30-14  
 CIVIL  
 STATE OF CALIFORNIA

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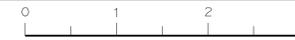
### PAVEMENT MARKINGS

LOCATIONS OF CONSTRUCTION				THERMOPLASTIC									
				LIMIT LINE	DIAGONAL	ARROWS				WORDS		SYMBOLS	SHIELD
						TYPE III (R)	TYPE IV (L)	TYPE V	TYPE VI	SIGNAL	AHEAD	RAILROAD CROSSING	ELONGATED ROUTE SHIELD
Loc	PM	BRIDGE No.	DESCRIPTION	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT
①	R0.53	53-2802F	W105-N1 CONNECTOR OC	36	216	252		99		96	93		
②	R1.20	53-2738S	DOUGLAS STREET ON-RAMP OC	24									
③	R1.79	53-2807K	IMPERIAL HIGHWAY WB OFF-RAMP										
④	R2.05	53-1240H	120TH STREET OC (E&W105-S405 CONNECTOR OC)										
⑤	R2.53	53-2435	INGLEWOOD AVENUE UC										
⑥	R2.53	53-2435F	W105-N&S405 CONNECTOR OC										
⑦	R3.05	53-2432	HAWTHORNE BOULEVARD OC	12									
⑧	R3.62	53-2517	PRAIRIE AVENUE OC				60						71
⑨	R4.16	53-2518	DOMINGUEZ CHANNEL										
⑩	R4.23	53-2598	YUKON AVENUE UC				60		126				
⑪	R4.73	53-2519	CRENSHAW BOULEVARD UC										
⑫	R5.23	53-2520	VAN NESS AVENUE OC										
⑬	R6.25	53-2525	NORMANDIE AVENUE OC									140	
SUBTOTAL				72	216	252	120	99	126	96	93	140	71
TOTAL				1,285									

### PAVEMENT DELINEATION QUANTITIES

PDQ-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR SHAWN ENJILY  
 CALCULATED/DESIGNED BY SHAWN ENJILY  
 REVISED BY CAM CHAU  
 DATE REVISED SHAWN ENJILY



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

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

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

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	16	34

*Grace M. Tsushima*  
REGISTERED CIVIL ENGINEER

July 19, 2013  
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 10-28-13

**UNIT OF MEASUREMENT SYMBOLS:**  
Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

**TABLE A**

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

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

**TABLE B**

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

\* For use on a sign panel only

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

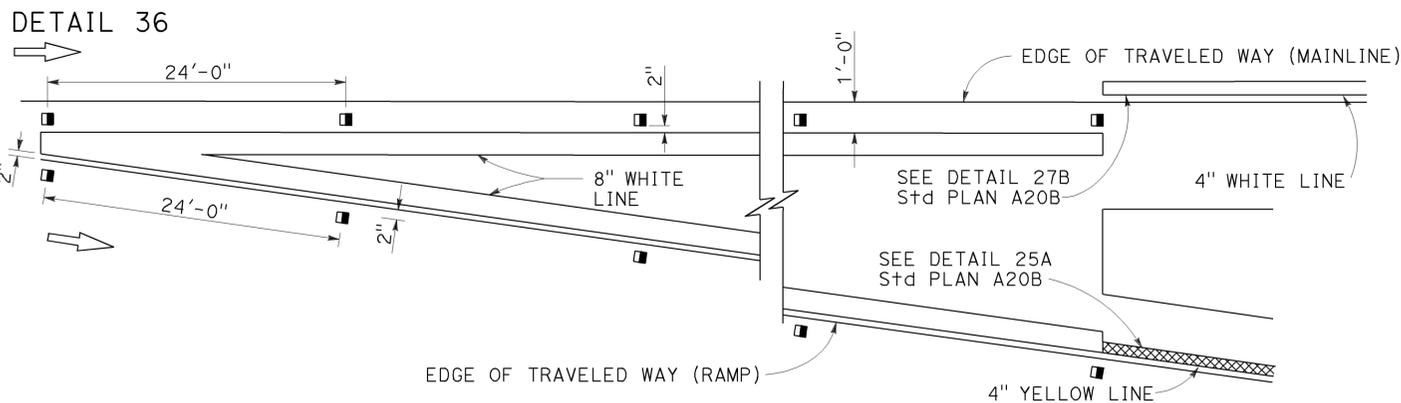
**ABBREVIATIONS  
(SHEET 2 OF 2)**

NO SCALE

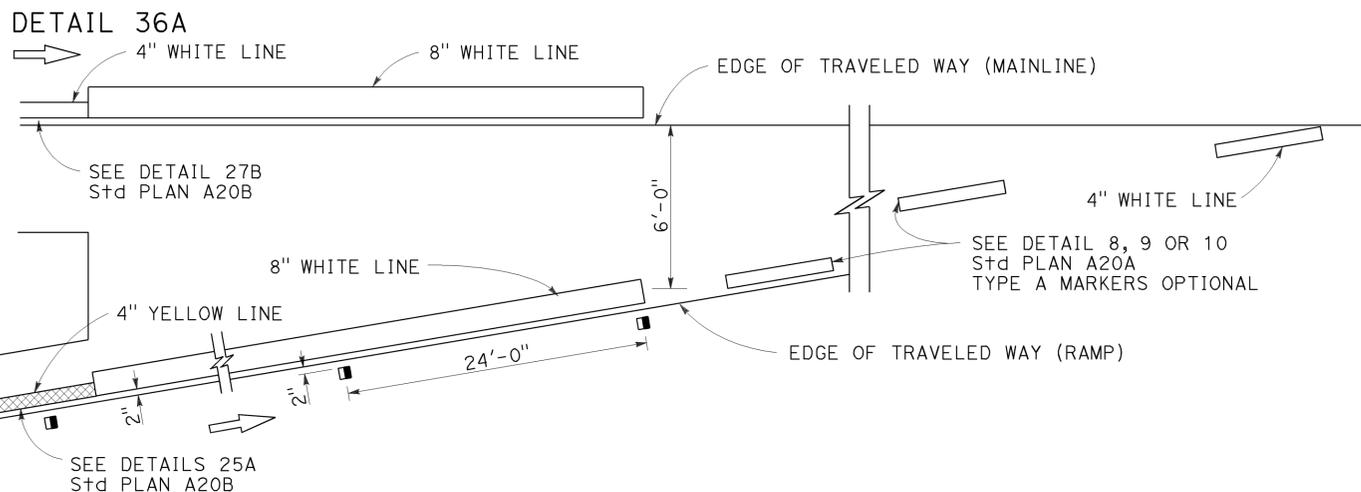
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B  
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

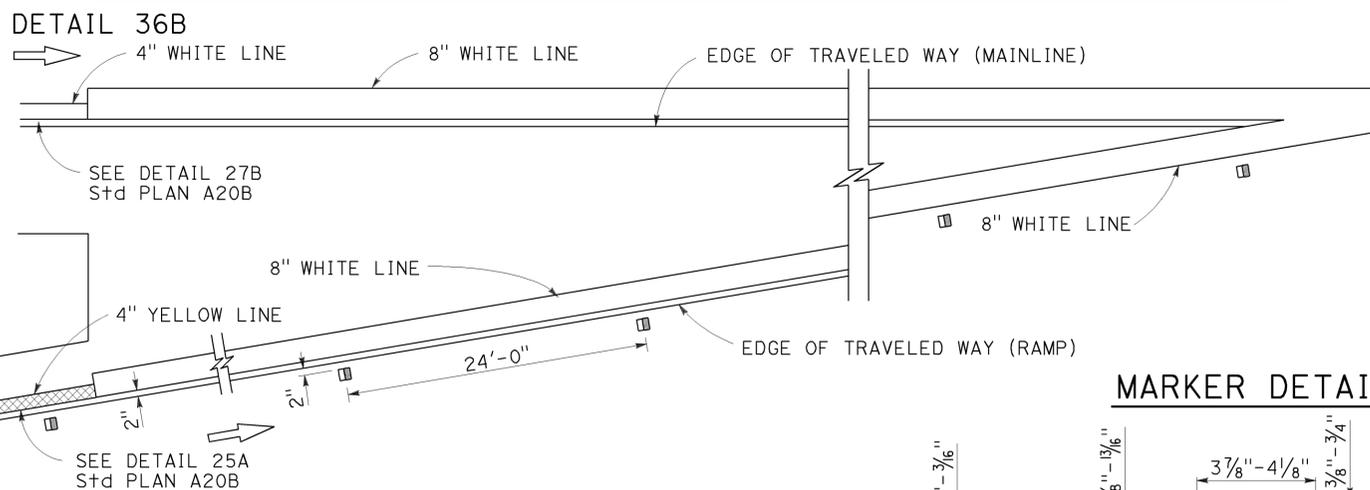
### EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



### ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



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

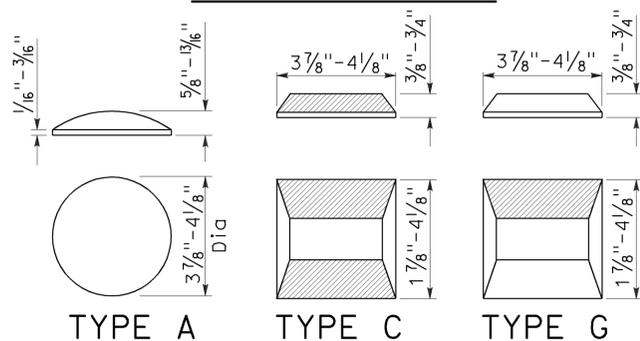


### MARKER DETAILS

#### LEGEND:

#### MARKERS

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



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	17	34

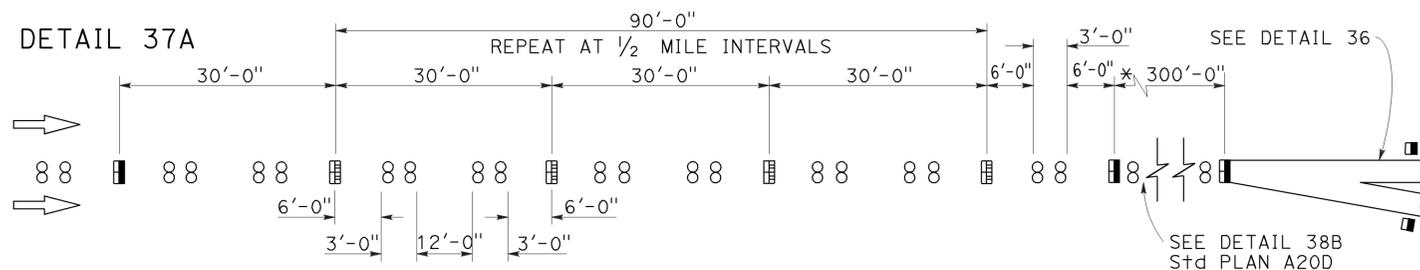
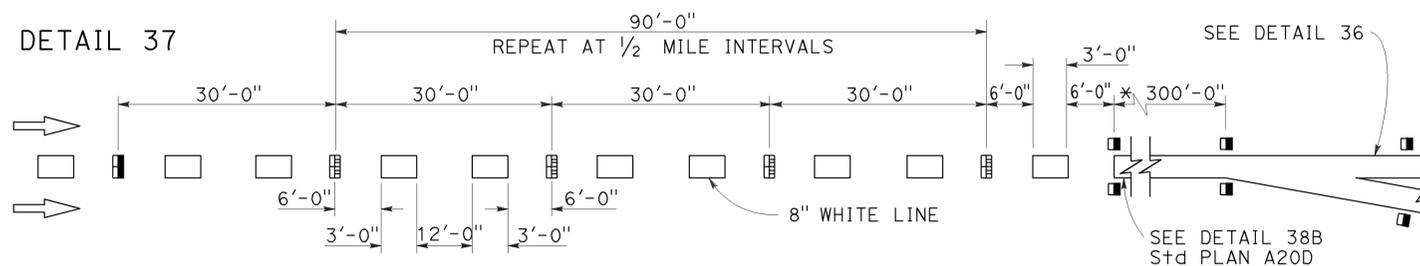
*Roberta L. McLaughlin*  
 REGISTERED CIVIL ENGINEER  
 No. C40375  
 Exp. 3-31-15  
 CIVIL  
 STATE OF CALIFORNIA

July 19, 2013  
 PLANS APPROVAL DATE

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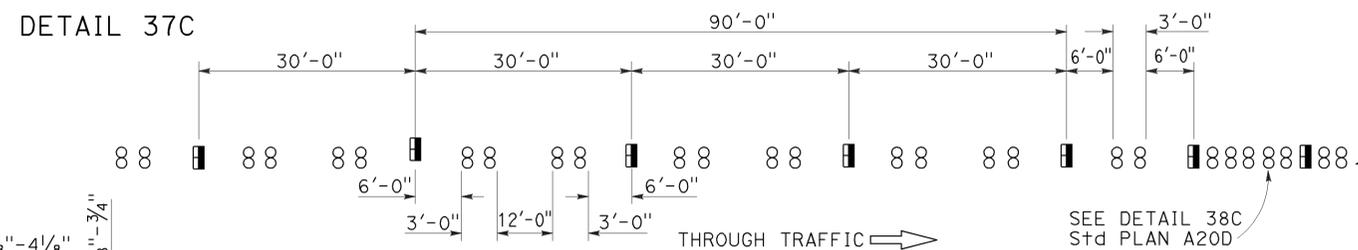
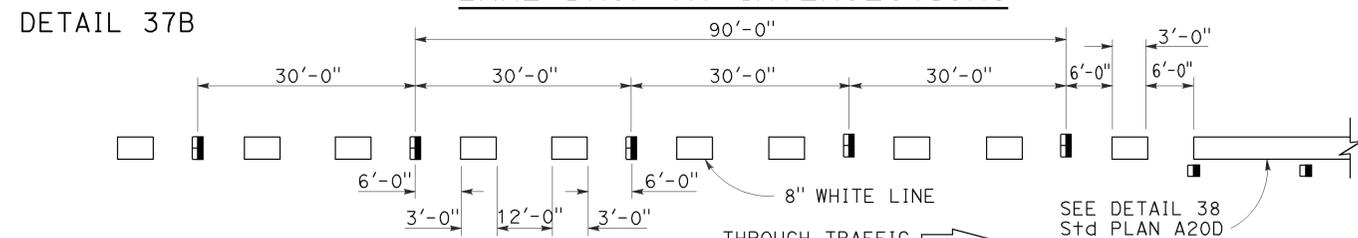
TO ACCOMPANY PLANS DATED 10-28-13

### 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



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

### PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

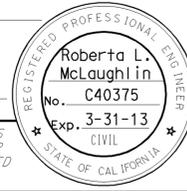
NO SCALE

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

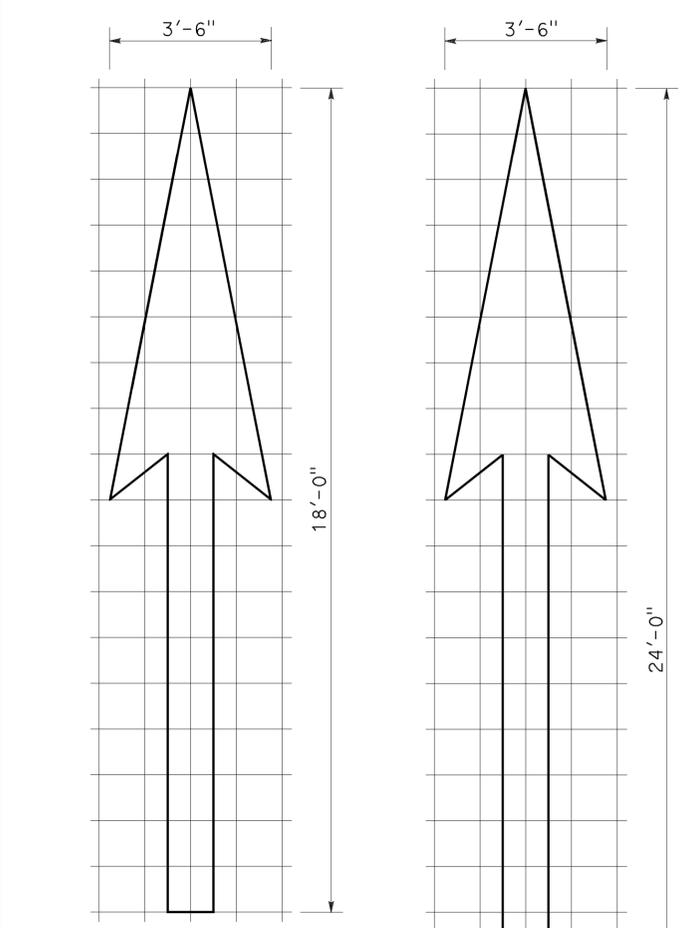
### REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

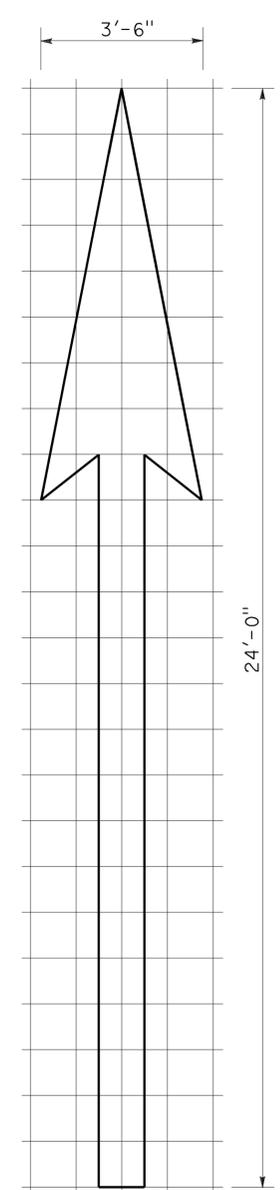
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	R0.5/R6.3	18	34
<i>Roberta L. McLaughlin</i> REGISTERED CIVIL ENGINEER					
April 20, 2012 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



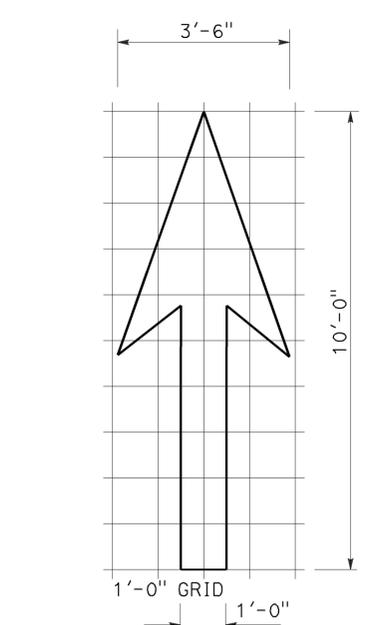
TO ACCOMPANY PLANS DATED 10-28-13



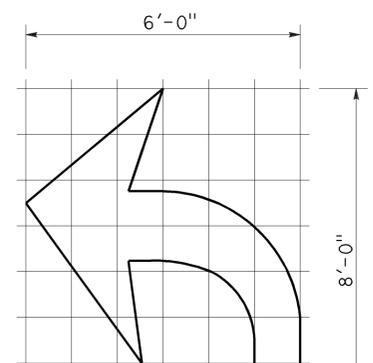
**TYPE I 18'-0" ARROW**  
A=25 ft<sup>2</sup>



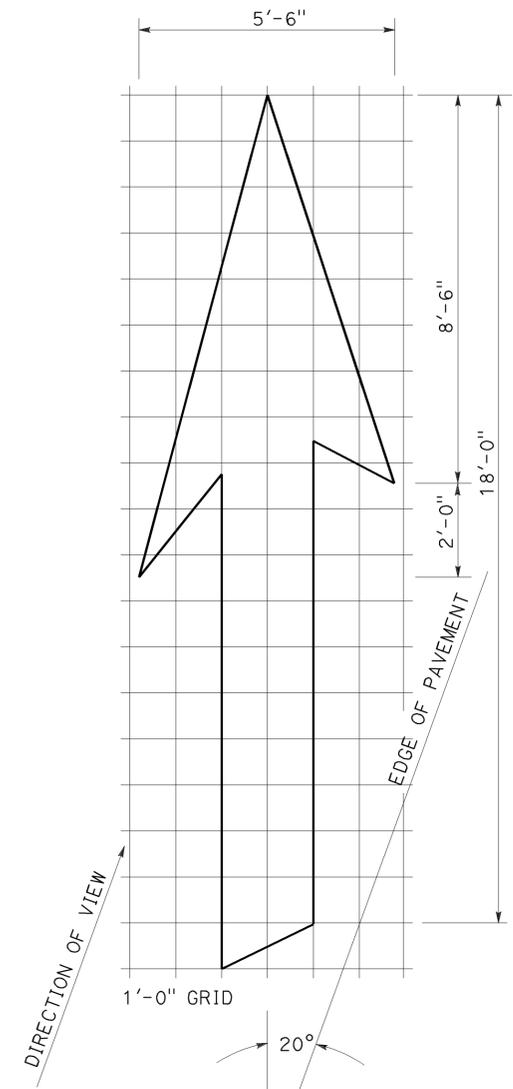
**TYPE I 24'-0" ARROW**  
A=31 ft<sup>2</sup>



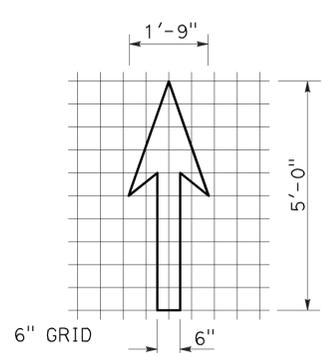
**TYPE I 10'-0" ARROW**  
A=14 ft<sup>2</sup>



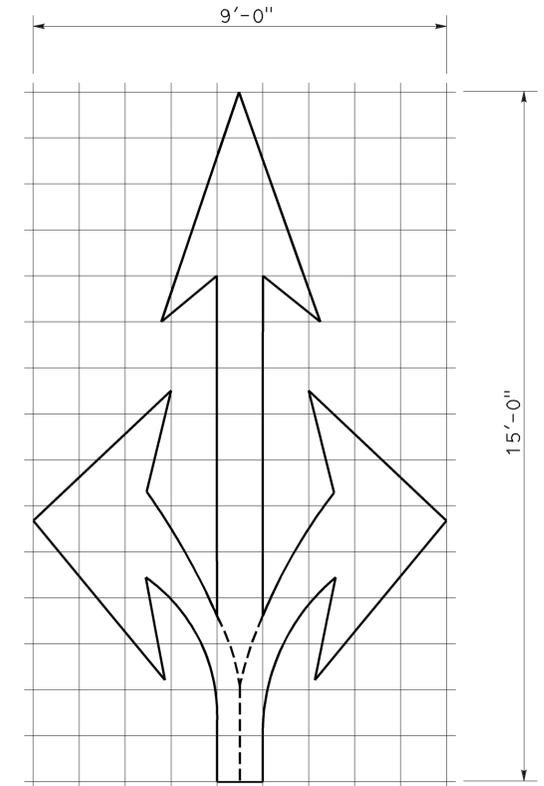
**TYPE IV (L) ARROW**  
A=15 ft<sup>2</sup>  
(For Type IV (R) arrow, use mirror image)



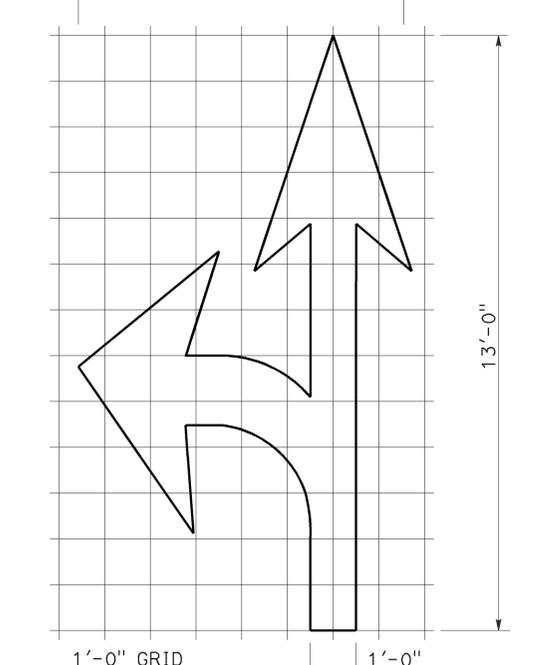
**TYPE VI ARROW**  
A=42 ft<sup>2</sup>  
Right lane drop arrow  
(For left lane, use mirror image)



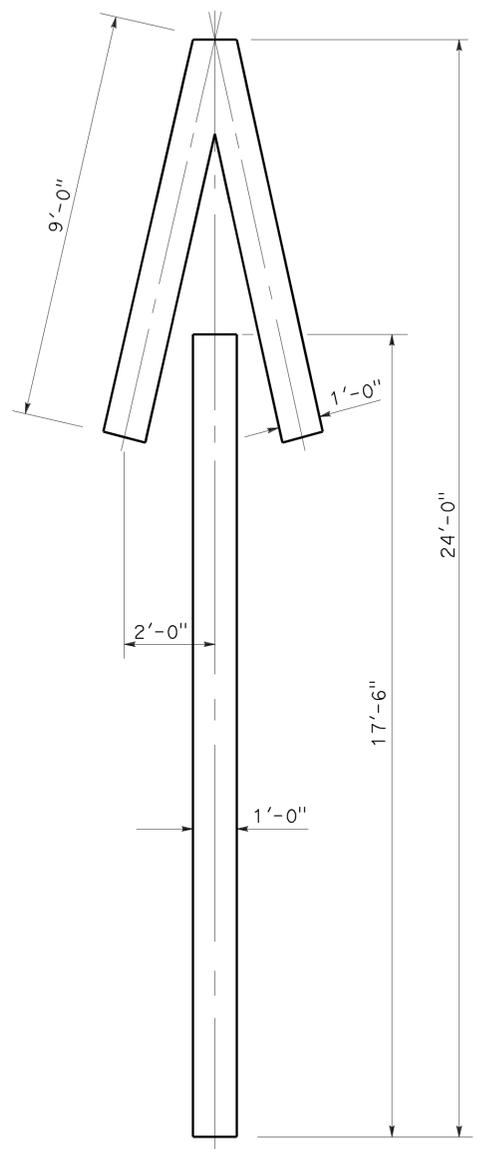
**BIKE LANE ARROW**  
A=3.5 ft<sup>2</sup>



**TYPE VIII ARROW**  
A=36 ft<sup>2</sup>



**TYPE VII (L) ARROW**  
A=27 ft<sup>2</sup>  
(For Type VII (R) arrow, use mirror image)



**TYPE V ARROW**  
A=33 ft<sup>2</sup>

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

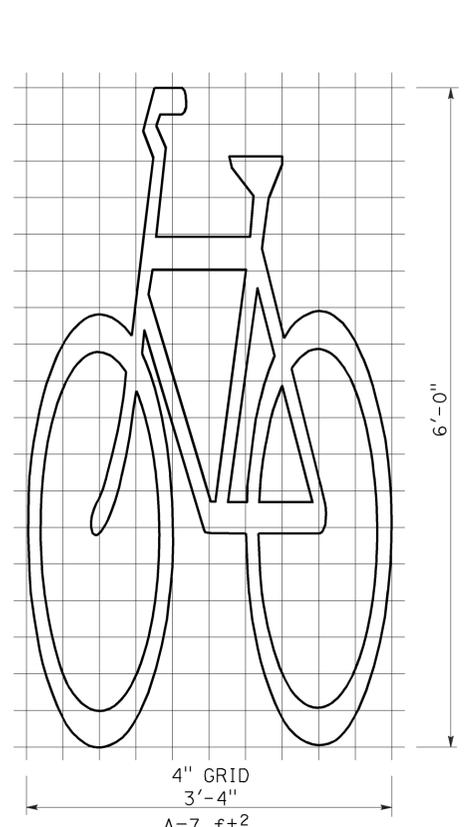
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS  
ARROWS**  
NO SCALE

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

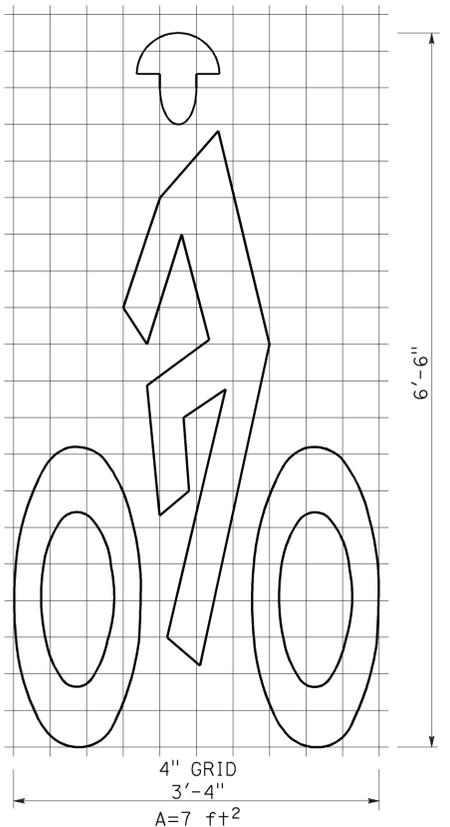
**REVISED STANDARD PLAN RSP A24A**

**2010 REVISED STANDARD PLAN RSP A24A**

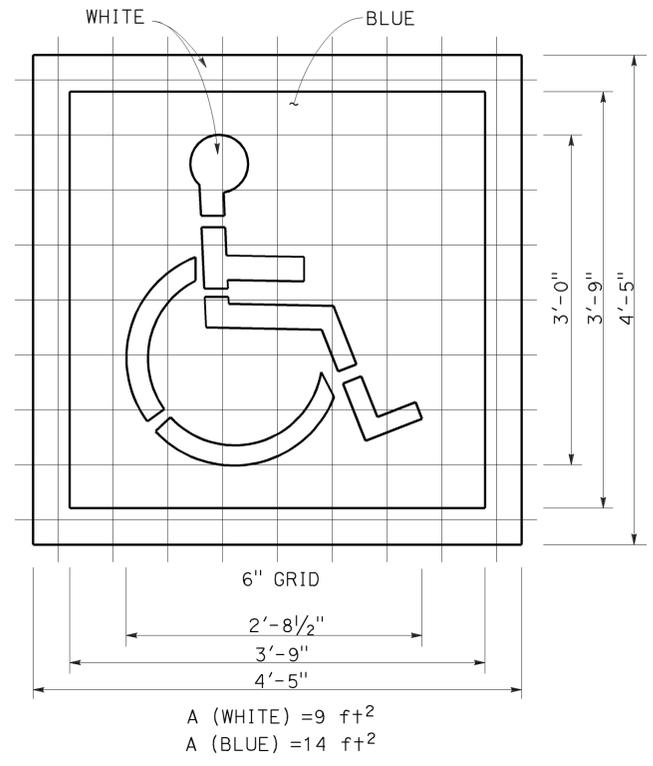
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	R0.5/R6.3	19	34
<i>Roberta L. McLaughlin</i> REGISTERED CIVIL ENGINEER					
October 19, 2012 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
REGISTERED PROFESSIONAL ENGINEER Roberta L. McLaughlin No. C40375 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA					



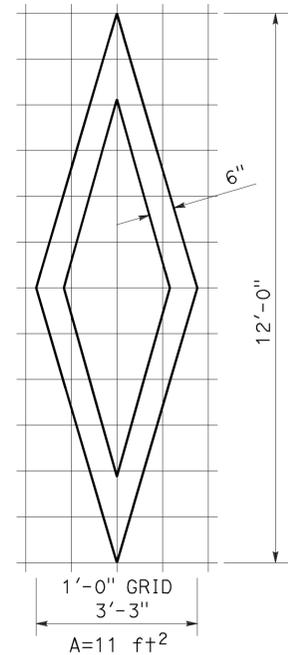
**BIKE LANE SYMBOL WITHOUT PERSON**



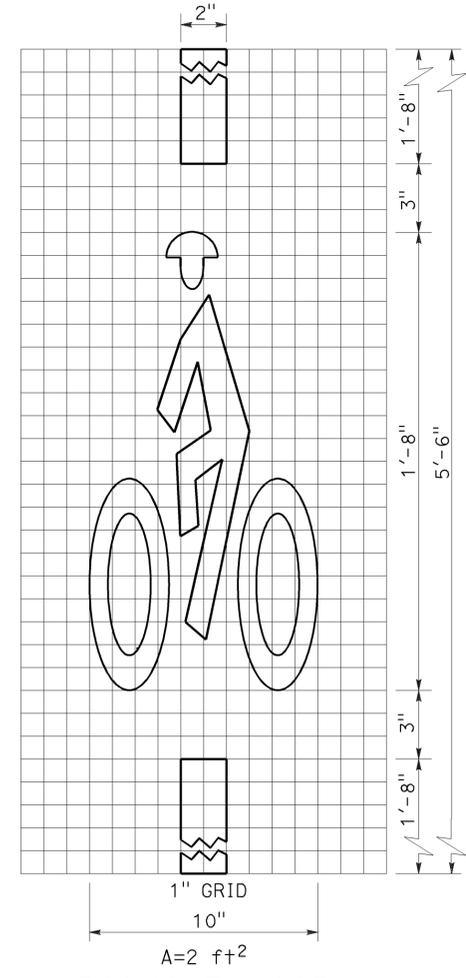
**BIKE LANE SYMBOL WITH PERSON**



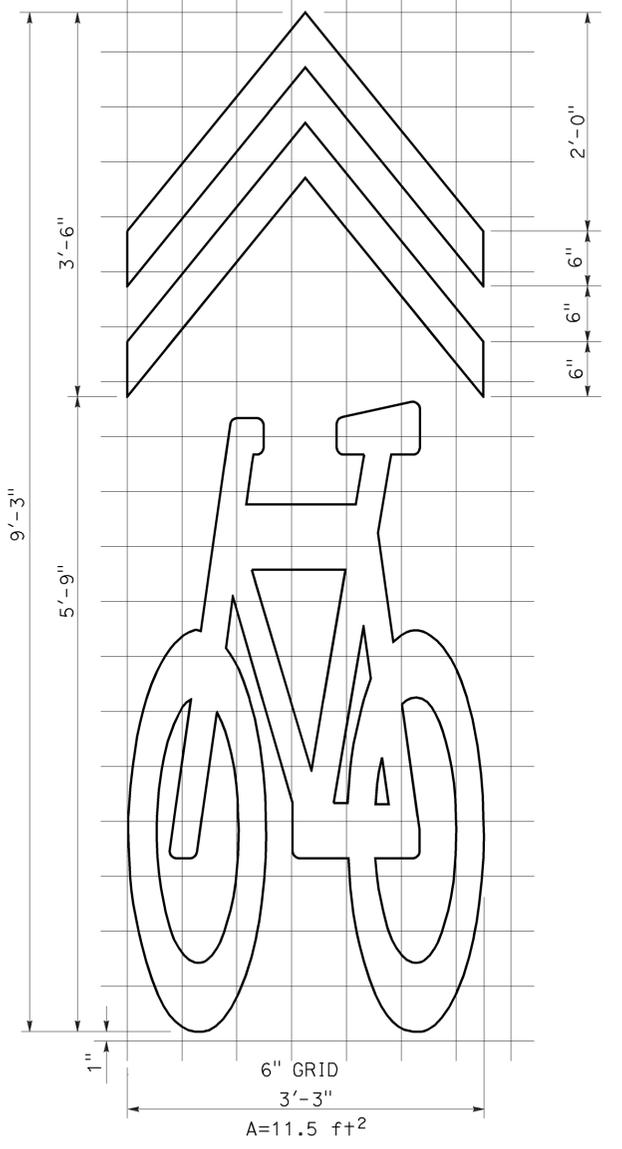
**INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING**



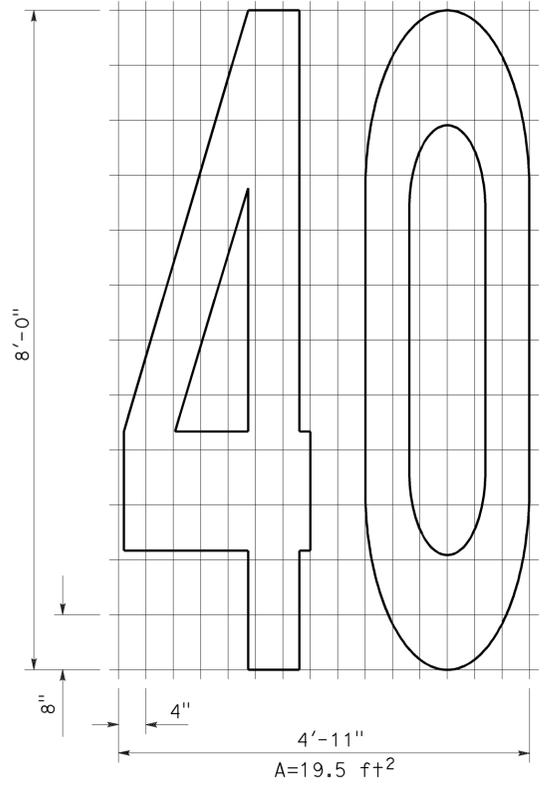
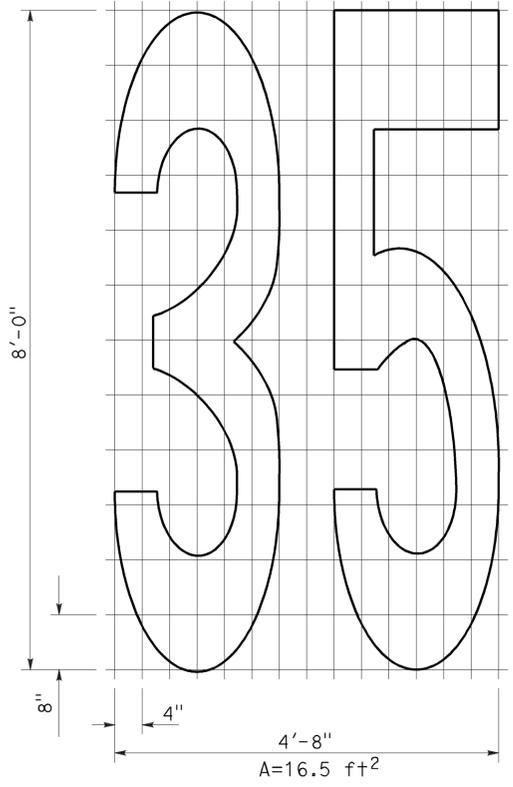
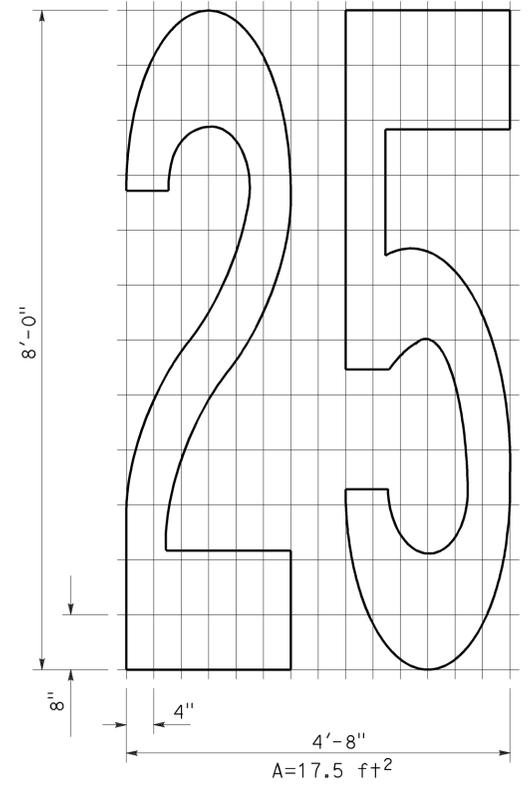
**DIAMOND SYMBOL**



**BICYCLE LOOP DETECTOR SYMBOL**



**SHARED ROADWAY BICYCLE MARKING**



**NUMERALS**

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

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

**REVISED STANDARD PLAN RSP A24C**

**2010 REVISED STANDARD PLAN RSP A24C**

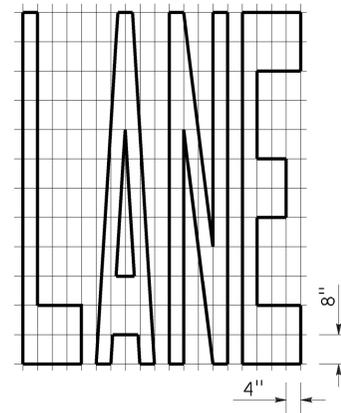
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	20	34

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

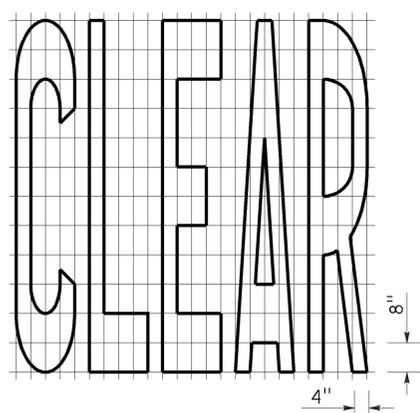
July 20, 2012  
 PLANS APPROVAL DATE

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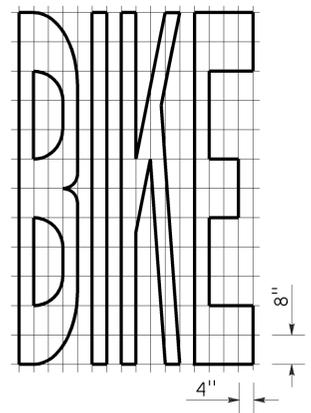
TO ACCOMPANY PLANS DATED 10-28-13



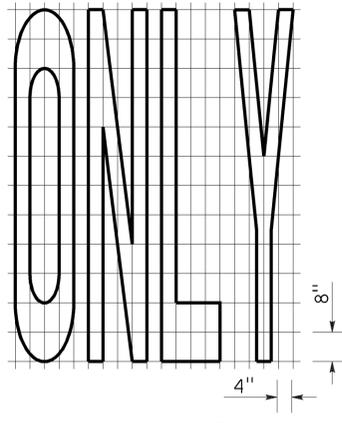
A=24 ft<sup>2</sup>



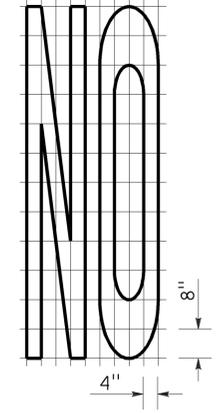
A=27 ft<sup>2</sup>



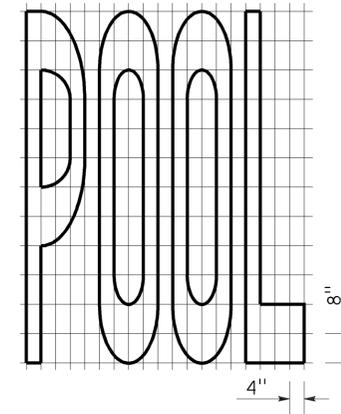
A=21 ft<sup>2</sup>



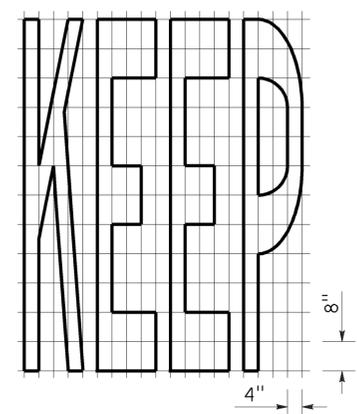
A=22 ft<sup>2</sup>



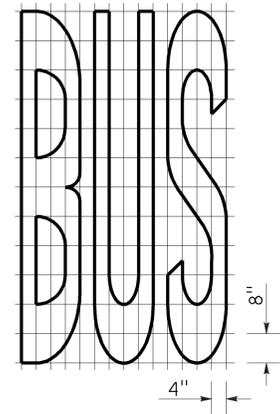
A=14 ft<sup>2</sup>



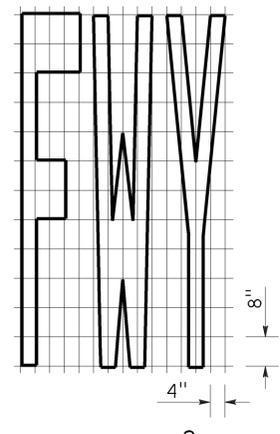
A=23 ft<sup>2</sup>



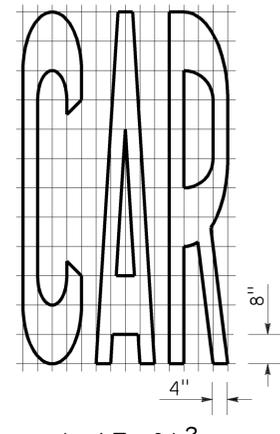
A=24 ft<sup>2</sup>



A=20 ft<sup>2</sup>

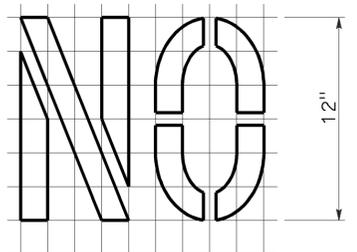


A=16 ft<sup>2</sup>



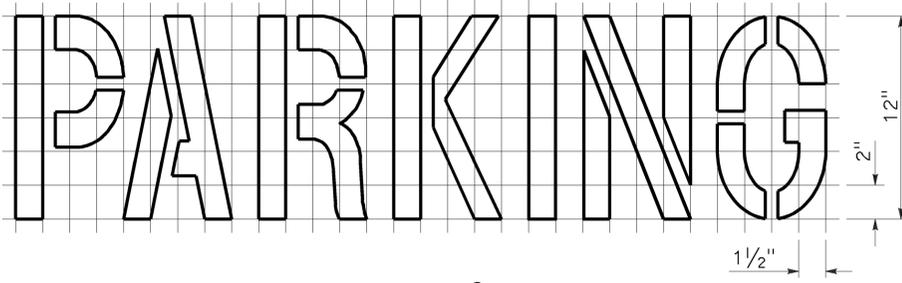
A=17 ft<sup>2</sup>

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



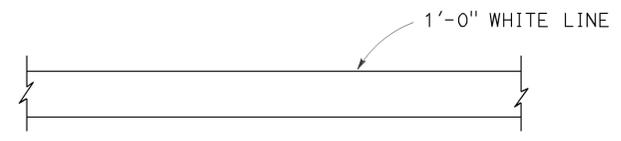
A=2 ft<sup>2</sup>

See Notes 6 and 7

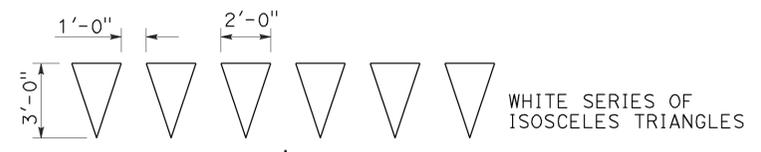


A=2 ft<sup>2</sup>

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**

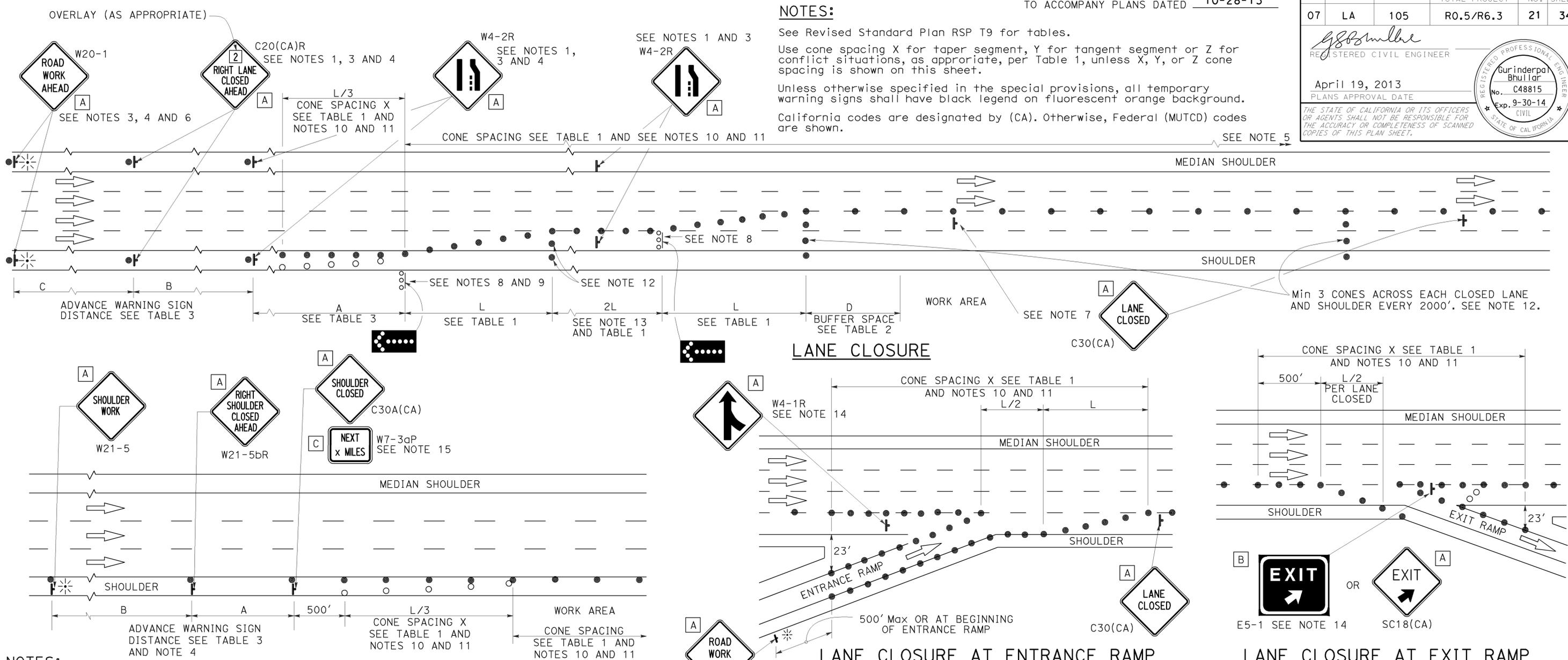
2010 REVISED STANDARD PLAN RSP A24E

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	R0.5/R6.3	21	34

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

April 19, 2013  
 PLANS APPROVAL DATE

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**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"

**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	105	R0.5/R6.3	22	34

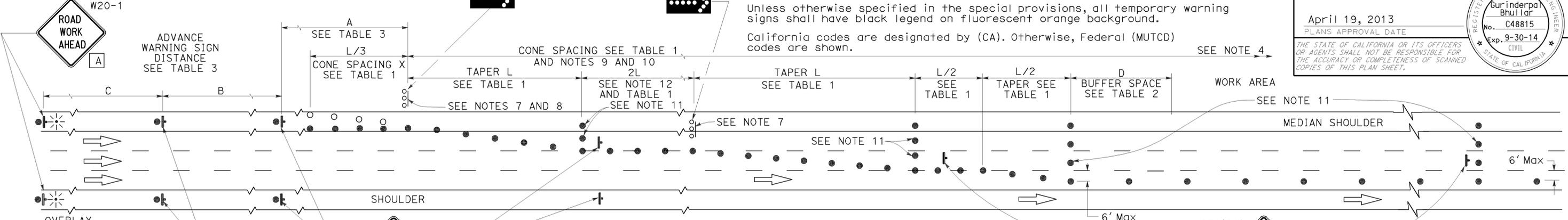
REGISTERED CIVIL ENGINEER  
 Gurinderpal Bhullar  
 No. C48815  
 Exp. 9-30-14  
 CIVIL  
 STATE OF CALIFORNIA

April 19, 2013  
 PLANS APPROVAL DATE

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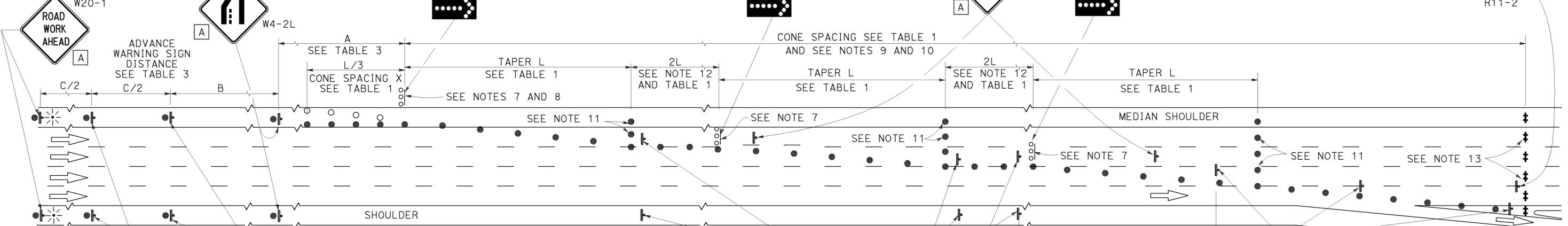
**NOTES:** See Revised Standard Plan RSP T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Unless otherwise specified in the special provisions, all temporary 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

# 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	105	R0.5/R6.3	23	34

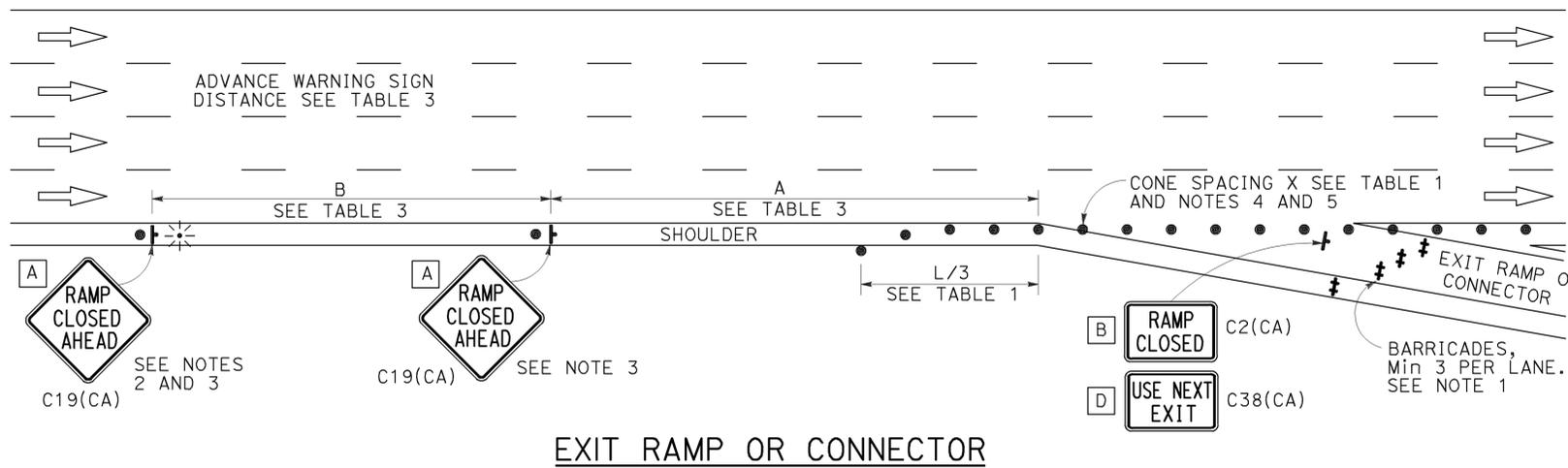
*Gurinderpal Bhullar*  
 REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

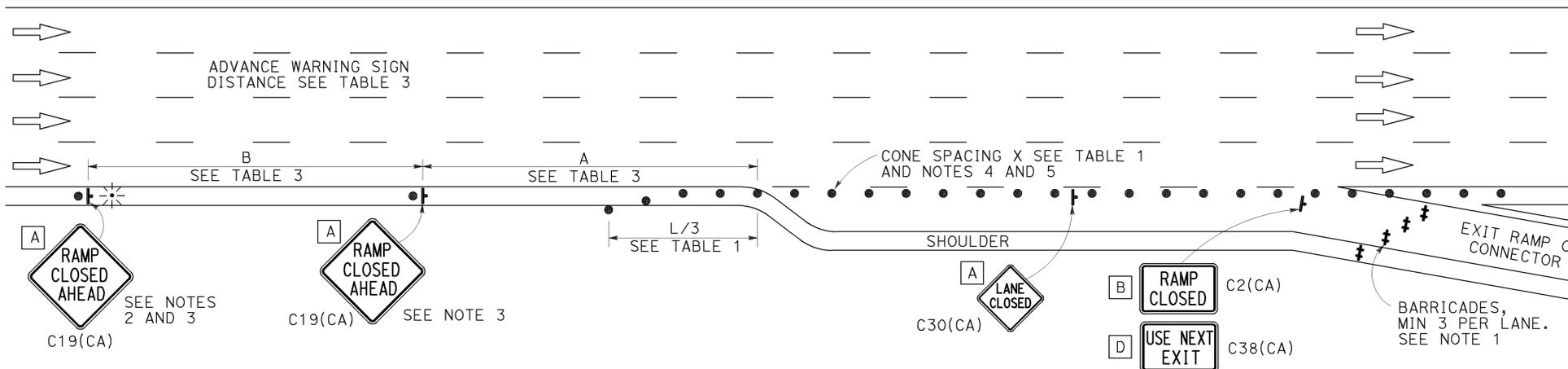
TO ACCOMPANY PLANS DATED 10-28-13

## NOTES:

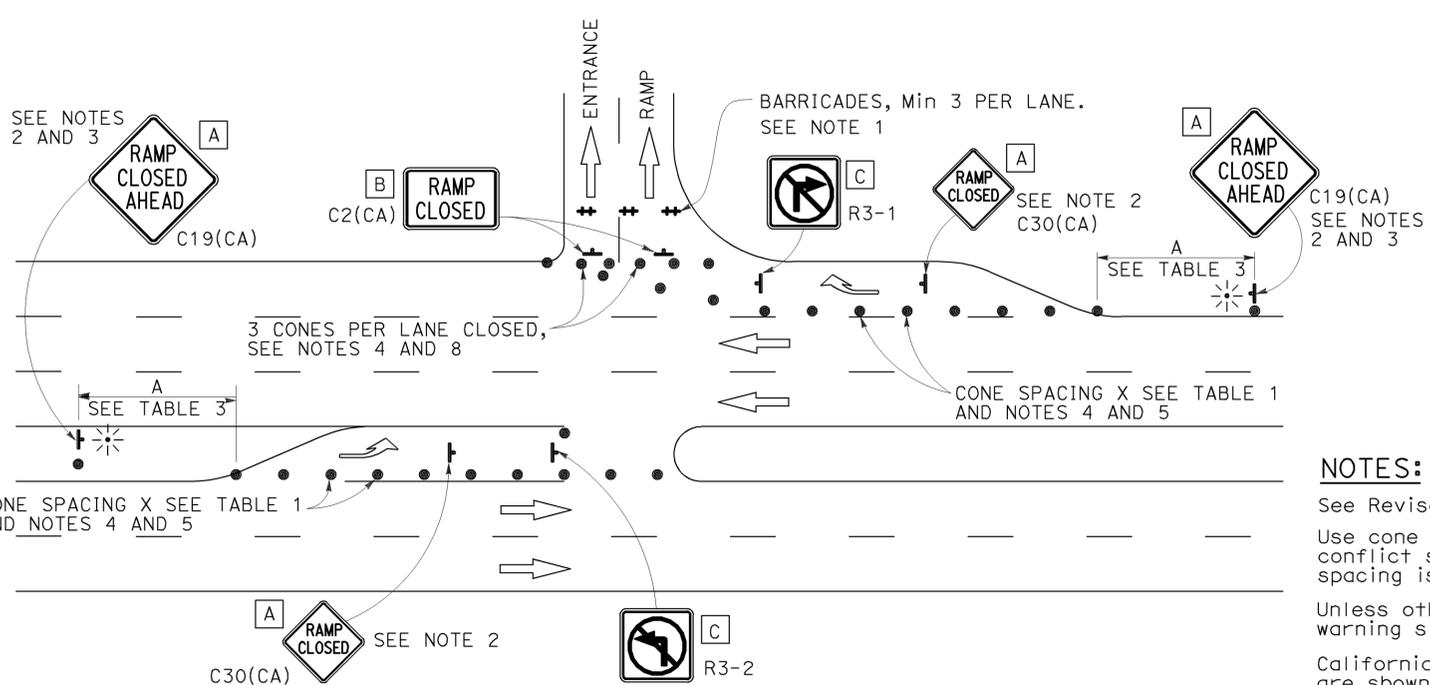
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



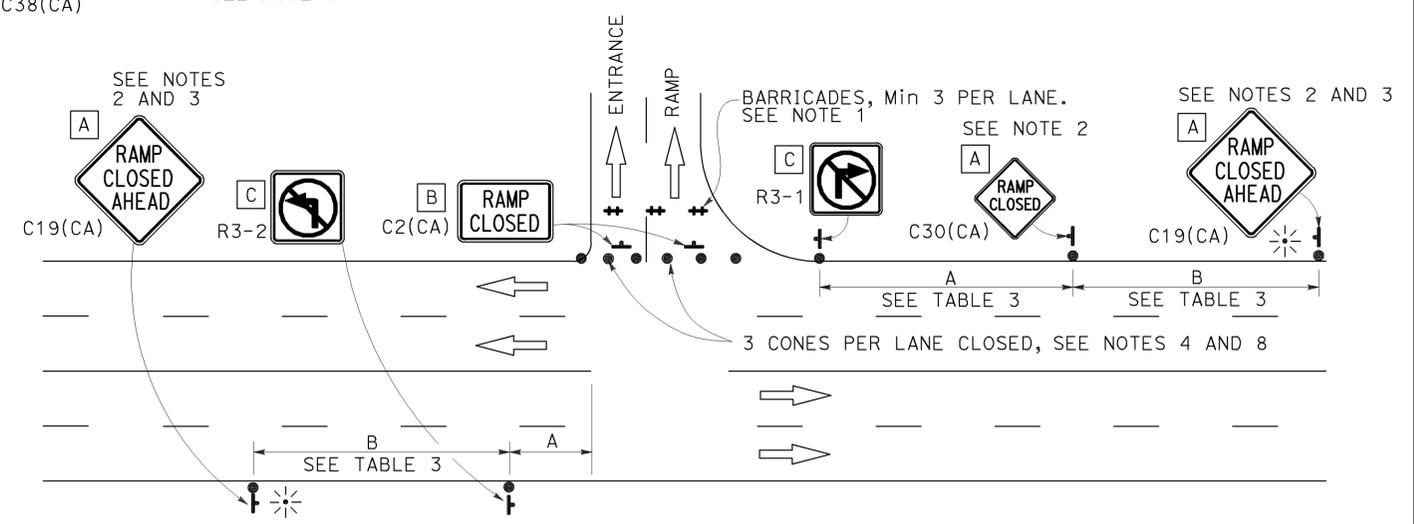
EXIT RAMP OR CONNECTOR



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	105	R0.5/R6.3	24	34
			09-26-13		
REGISTERED CIVIL ENGINEER			DATE		
10-28-13			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

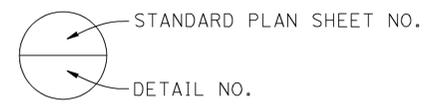


**INDEX TO PLANS**

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	MISCELLANEOUS DETAILS NO. 1
10	MISCELLANEOUS DETAILS NO. 2
11	STRUCTURE APPROACH TYPE R(30D)

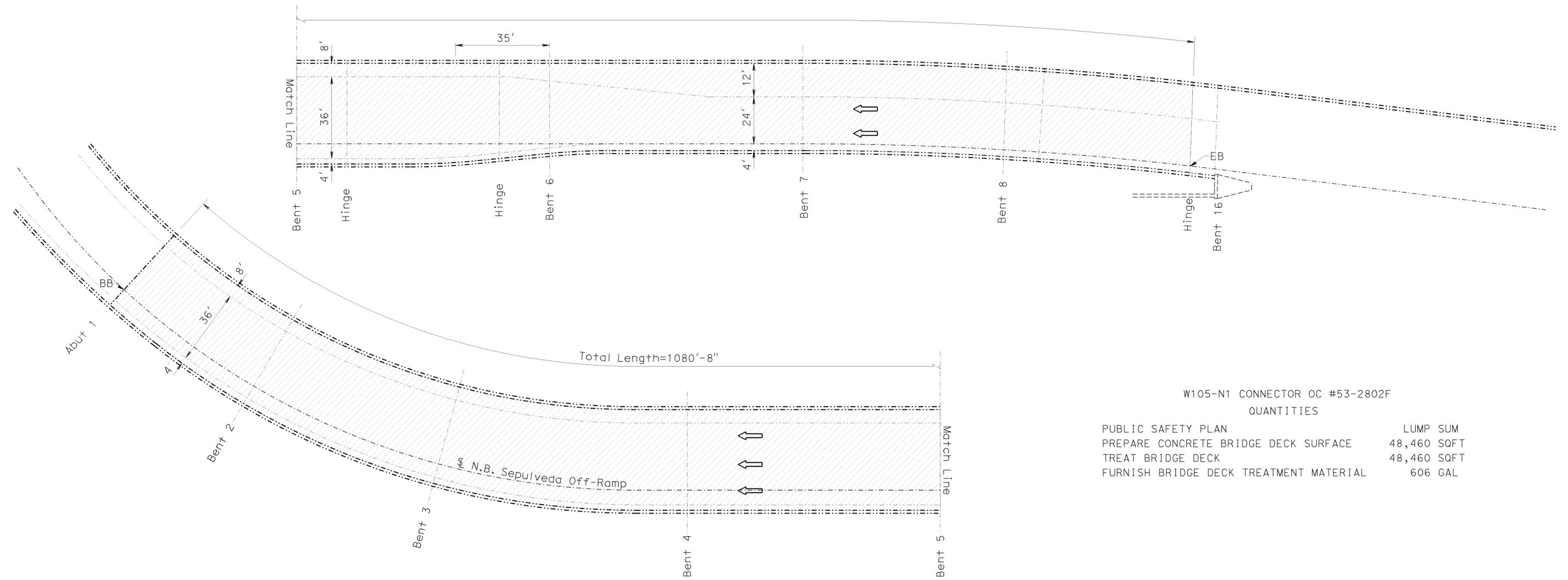
**STANDARD PLANS DATED 2010**

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ACRONYMS AND 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")



**LEGEND:**

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



W105-N1 CONNECTOR OC #53-2802F  
QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	48,460 SQFT
TREAT BRIDGE DECK	48,460 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	606 GAL

**W105-N1 CONNECTOR OC**

Br No. 53-2802F, Rte 105, PM R0.53  
No Scale



NOTE:  
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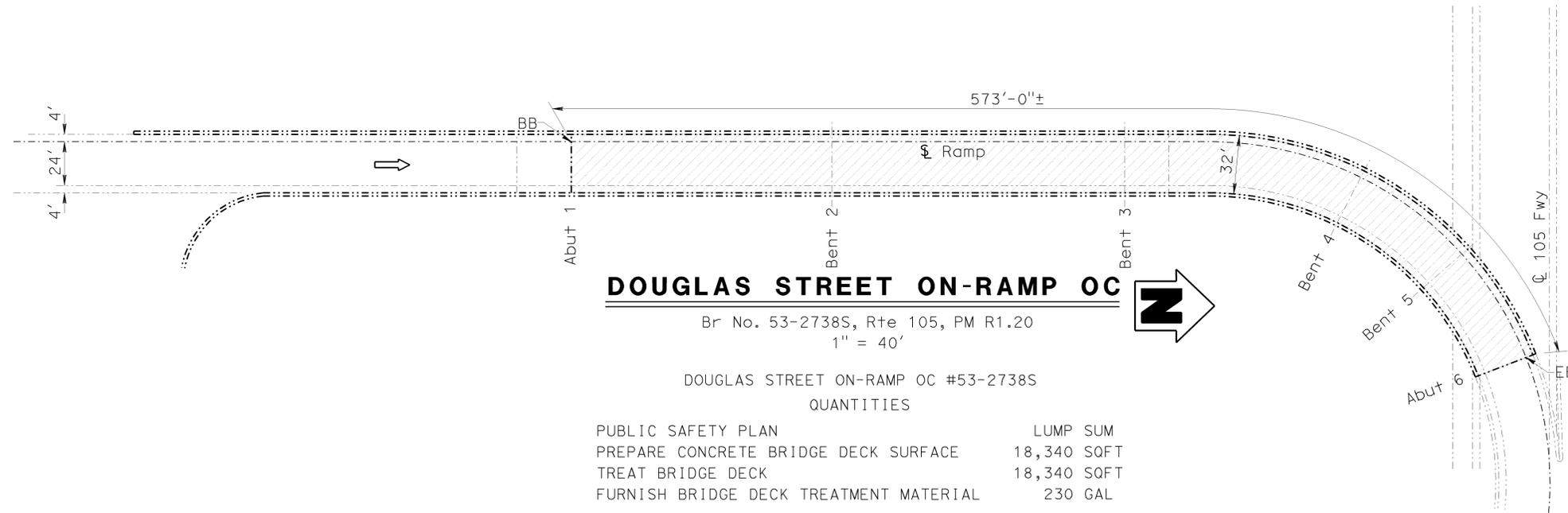
<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTE 105 BRIDGES</b> GENERAL PLAN NO. 1				
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim		POST MILE			
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Li Xiahong			CHECKED Li Xiahong		PLANS AND SPECS COMPARED	Varies		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)													
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						UNIT: 3489 PROJECT NUMBER & PHASE: 0712000359 1		CONTRACT NO.: 07-1W5804					
DISREGARD PRINTS BEARING EARLIER REVISION DATES								REVISION DATES					
								06-08-13	07-16-13	09-23-13	10-30-13	SHEET 01	OF 11

USERNAME => s117283 DATE PLOTTED => 30-OCT-2013 TIME PLOTTED => 09:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	R0.5/R6.3	25	34
			09-26-13		
REGISTERED CIVIL ENGINEER			DATE		
10-28-13			PLANS APPROVAL DATE		
			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.					

**LEGEND:**

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



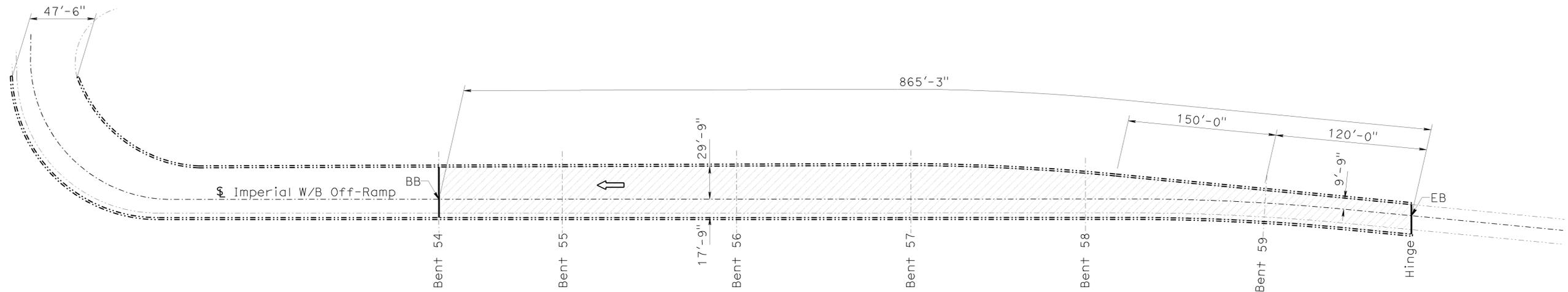
NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	<b>ROUTE 105 BRIDGES</b> <b>GENERAL PLAN NO. 2</b>				
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom		CHECKED Mazin Ibrahim		POST MILE			
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Li Xiahong		CHECKED Li Xiahong		PLANS AND SPECS COMPARED	Varies		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 0712000359 1	CONTRACT NO.: 07-1W5804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 02	OF 11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	R0.5/R6.3	26	34
			09-26-13		
REGISTERED CIVIL ENGINEER			DATE		
10-28-13			PLANS APPROVAL DATE		
			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.					

**LEGEND:**

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- ⇒ Indicates direction of traffic.
- Indicates location of existing joint seal removal and placement of new joint seal.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.



**IMPERIAL HIGHWAY WB OFF-RAMP**

Br No. 53-2807K, Rte 105, PM R1.79  
1" = 50'

IMPERIAL HIGHWAY WB OFF-RAMP #53-2807K  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	37,190 SQFT
TREAT BRIDGE DECK	37,190 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	465 GAL
CLEAN EXPANSION JOINT	75 LF
JOINT SEAL (MR 1/2")	75 LF

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

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTES 105 BRIDGES</b> GENERAL PLAN NO. 3				
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim		POST MILE			
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Li Xiahong			CHECKED Li Xiahong		PLANS AND SPECS COMPARED	Varies		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489	PROJECT NUMBER & PHASE: 0712000359 1	CONTRACT NO.: 07-1W5804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 03	OF 11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	R0.5/R6.3	27	34

09-26-13  
 REGISTERED CIVIL ENGINEER DATE  
 10-28-13  
 PLANS APPROVAL DATE  
 No. C69896  
 Exp. 09/30/14  
 CIVIL  
 STATE OF CALIFORNIA  
 REGISTERED PROFESSIONAL ENGINEER  
 MAZIN S. IBRAHIM

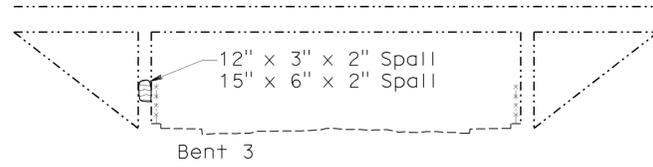
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

**LEGEND:**

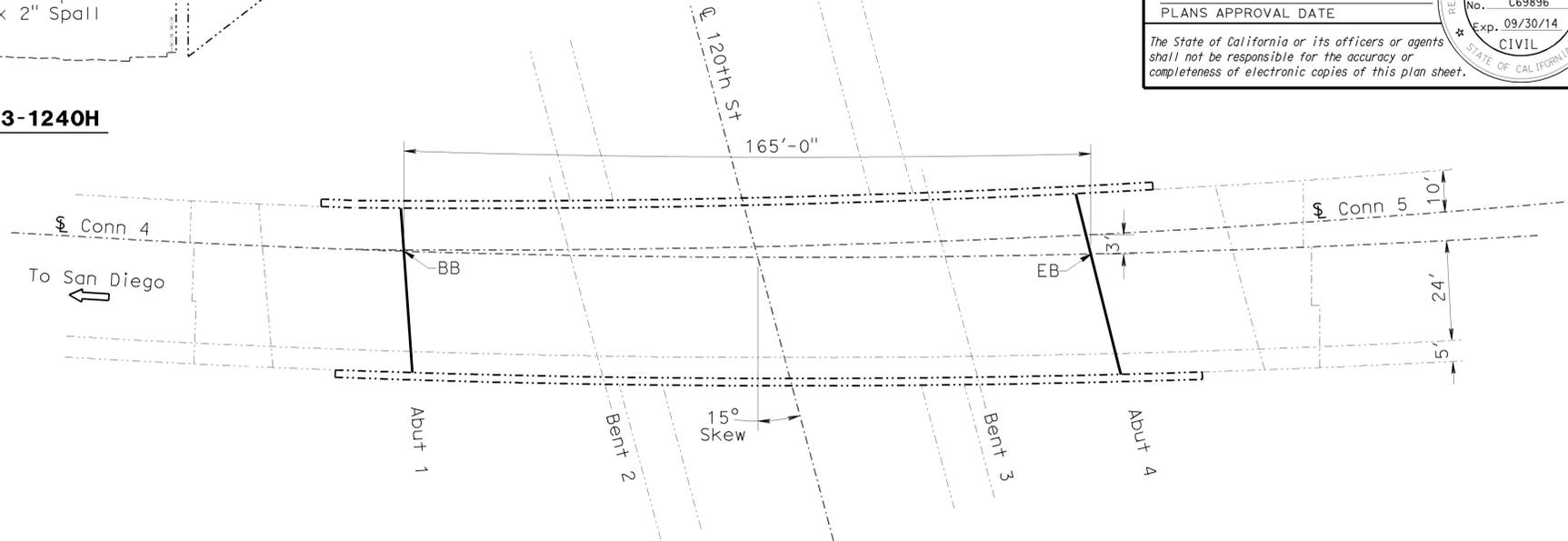
-  Indicates existing.
-  Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
-  Indicates location of existing joint seal removal placement of new joint seal.
-  Indicates removal of unsound concrete and place rapid setting concrete (patch).

**NOTE:**

- For spalled surface repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.



**Br No. 53-1240H**



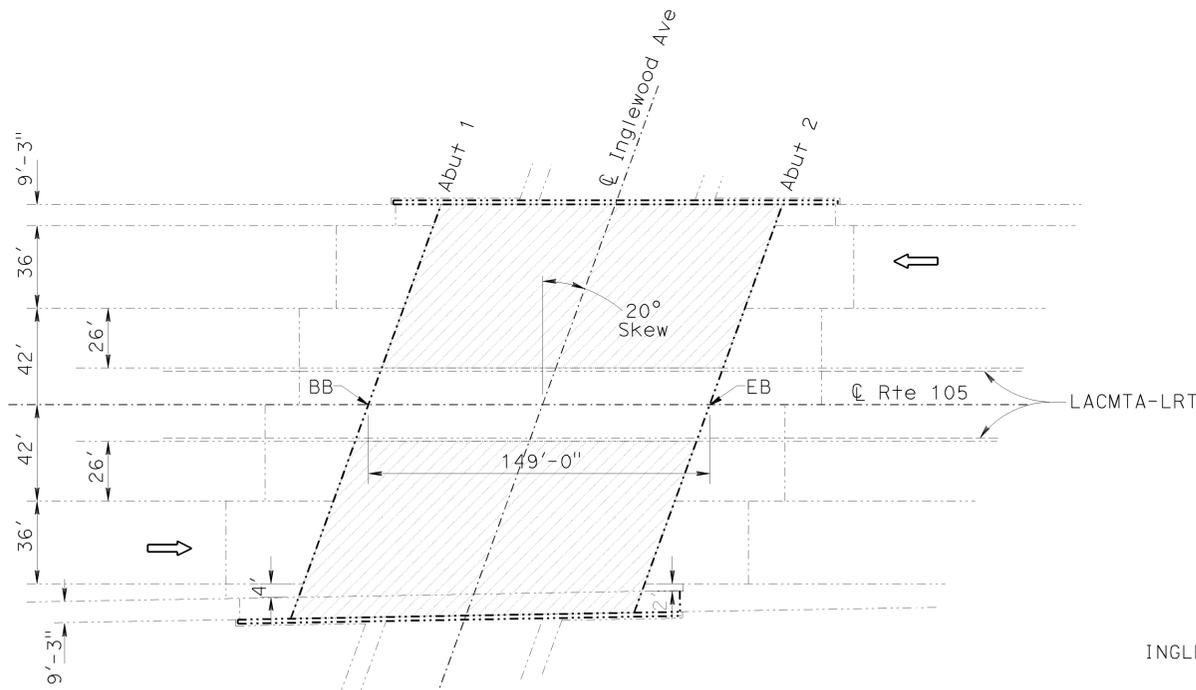
**120TH STREET OC (E & W105-S405 CONNECTOR OC)**

Br No. 53-1240H, Rte 105, PM R2.05  
No Scale

120TH STREET OC (E & W105-S405 CONN OC) #53-1240H

QUANTITIES

REPAIR SPALLED SURFACE AREA	1 SQFT
CLEAN EXPANSION JOINT	81 LF
JOINT SEAL (MR 1 1/2")	81 LF



**INGLEWOOD AVENUE UC #53-2435**

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	21,680 SQFT
TREAT BRIDGE DECK	21,680 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	271 GAL

**INGLEWOOD AVENUE UC**

Br No. 53-2435, Rte 105, PM R2.53  
1" = 40'

NOTE:  
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<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	<b>ROUTE 105 BRIDGES</b> <b>GENERAL PLAN NO. 4</b>
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom		POST MILE	
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Li Xiahong		VARIES	

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3489 PROJECT NUMBER & PHASE: 0712000359 1 CONTRACT NO.: 07-1W5804 DISREGARD PRINTS BEARING EARLIER REVISION DATES

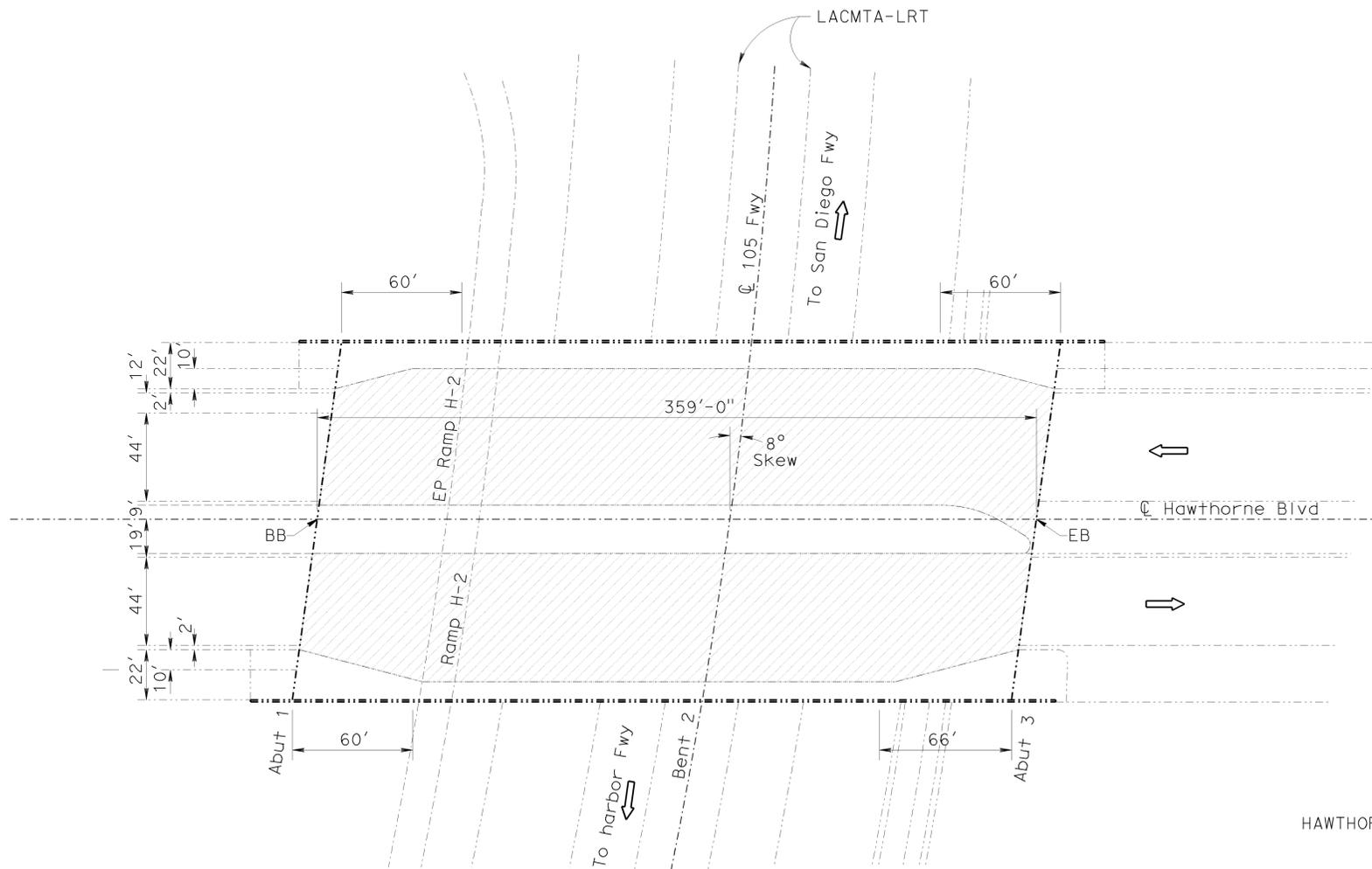
REVISION DATES	SHEET	OF
06-08-13 07-16-13 09-23-13 10-30-13	04	11

FILE => 07-1w5801-a-gp04.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	R0.5/R6.3	28	34
			09-26-13		
REGISTERED CIVIL ENGINEER			DATE		
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.					

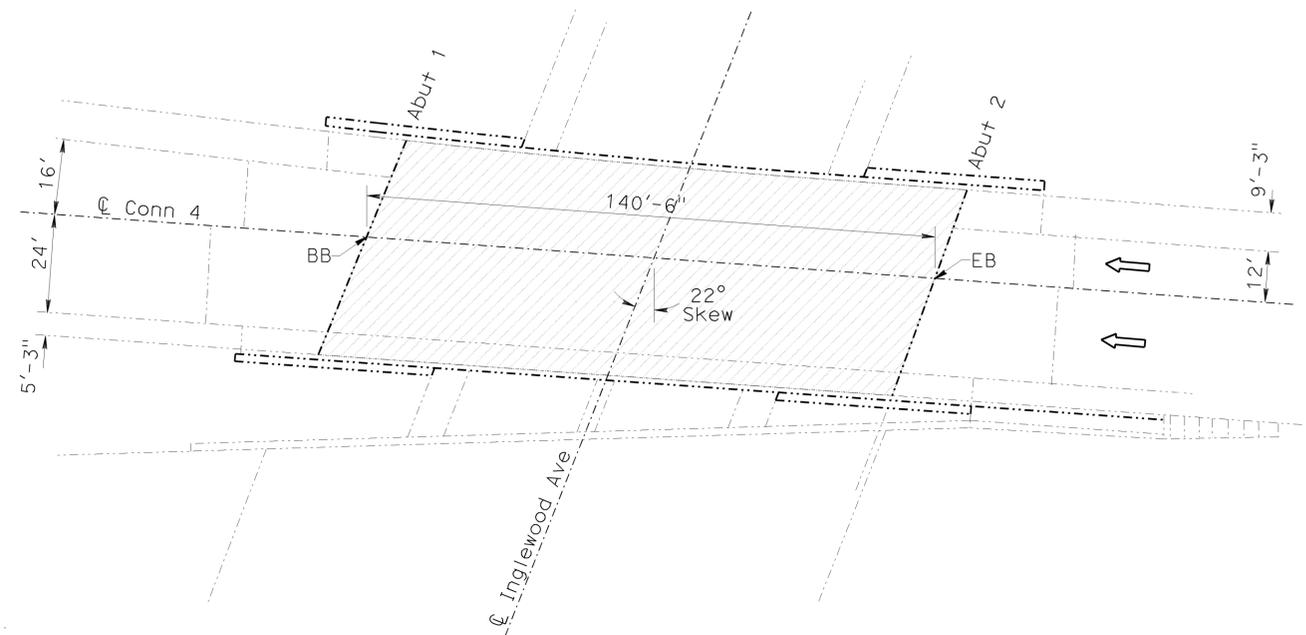
**LEGEND:**

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



**HAWTHORNE BOULEVARD OC**  
 Br No. 53-2432, Rte 105, PM R3.05  
 1" = 40'

PUBLIC SAFETY PLAN		LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	43,620 SQFT	
TREAT BRIDGE DECK	43,620 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	545 GAL	



**W105-N & S405 CONNECTOR OC**  
 Br No. 53-2435F, Rte 105, PM R2.53  
 1" = 40'

W105-N & S405 CONNECTOR OC #53-2435F  
 QUANTITIES

PUBLIC SAFETY PLAN		LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	7,380 SQFT	
TREAT BRIDGE DECK	7,380 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	93 GAL	

NOTE:  
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DESIGN ENGINEER <b>TONY D. BRAKE</b>	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Li Xiahong

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

BRIDGE NO.	Various	<b>ROUTE 105 BRIDGES GENERAL PLAN NO. 5</b>
POST MILE	Varies	
REVISION DATES	06-08-13, 07-16-13, 09-23-13, 10-30-13	
SHEET	05	OF 11

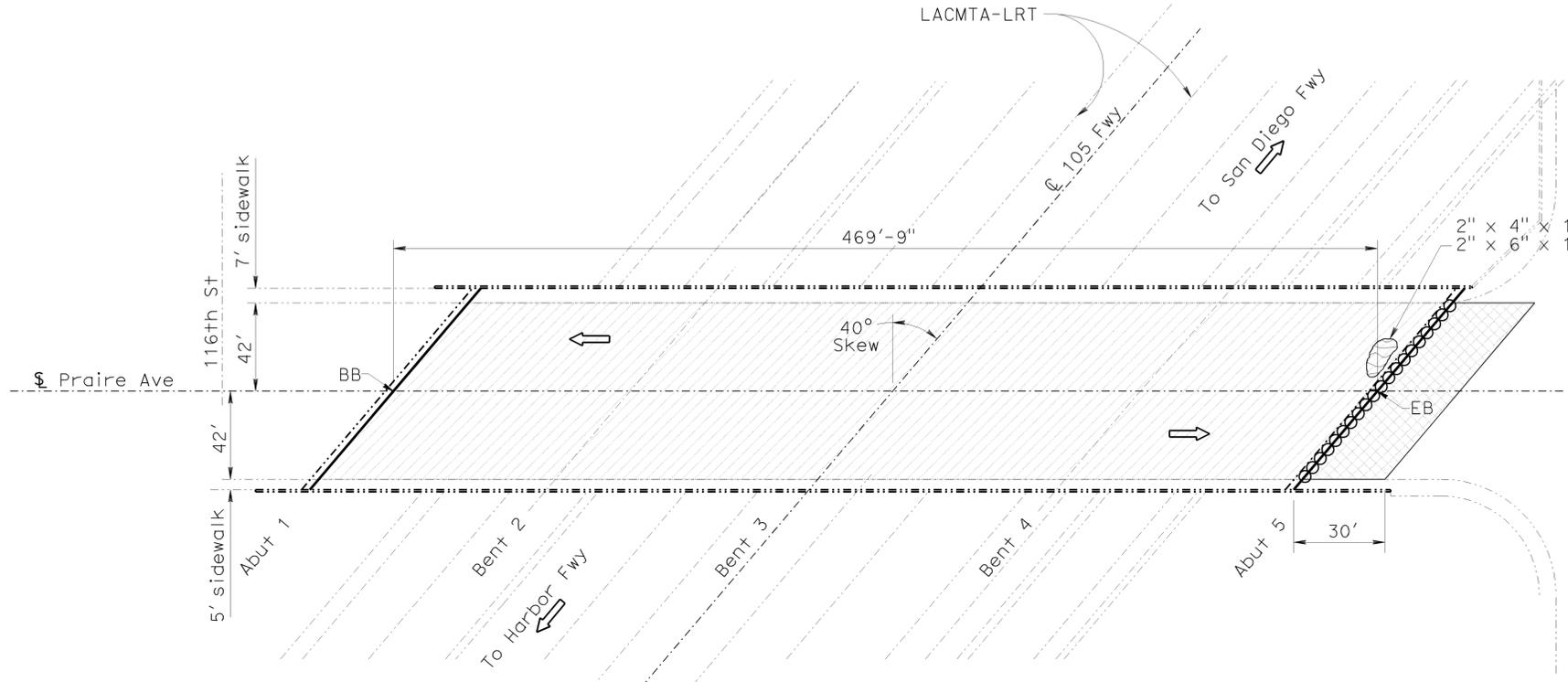
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	29	34
			09-26-13	DATE	
			10-28-13	PLANS APPROVAL DATE	
			REGISTERED CIVIL ENGINEER No. C69896 Exp. 09/30/14 CIVIL STATE OF CALIFORNIA		

**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
- Indicates location of existing joint seal removal 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 placement of new joint seal and paving notch extension.
- Indicates removal of unsound concrete and place rapid setting concrete (patch).

**NOTE:**

1. For spalled surface repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.



**PRAIRIE AVENUE OC**  
 Br No. 53-2517, Rte 105, PM R3.62  
 1" = 40'

PRAIRIE AVENUE OC #53-2517  
 QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
RAPID SETTING CONCRETE (PATCH)	1 CF
REMOVE UNSOUND CONCRETE	1 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	39,460 SQFT
TREAT BRIDGE DECK	39,460 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	494 GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	147 CY
PAVING NOTCH EXTENSION	83 CF
CLEAN EXPANSION JOINT	126 LF
JOINT SEAL (MR 1 1/2")	252 LF

DOMINGUEZ CHANNEL #53-2518  
 QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	31,350 SQFT
TREAT BRIDGE DECK	31,350 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	392 GAL
CLEAN EXPANSION JOINT	533 LF
JOINT SEAL (MR 1 1/2")	533 LF

**DOMINGUEZ CHANNEL**

Br No. 53-2518, Rte 105, PM R4.16  
 1" = 40'

NOTE:  
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<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	<b>ROUTE 105 BRIDGES</b> <b>GENERAL PLAN NO. 6</b>		
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom		POST MILE			
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Li Xiahong		VARIES			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 0712000359 1 CONTRACT NO.: 07-1W5801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 06-08-13 07-16-13 09-23-13 10-30-13	SHEET 06 OF 11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	30	34

REGISTERED CIVIL ENGINEER DATE 09-26-13  
 REGISTERED CIVIL ENGINEER No. C69896 Exp. 09/30/14  
 PLANS APPROVAL DATE 10-28-13  
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**LEGEND:**

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- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
- Indicates location of existing joint seal removal placement of new joint seal.



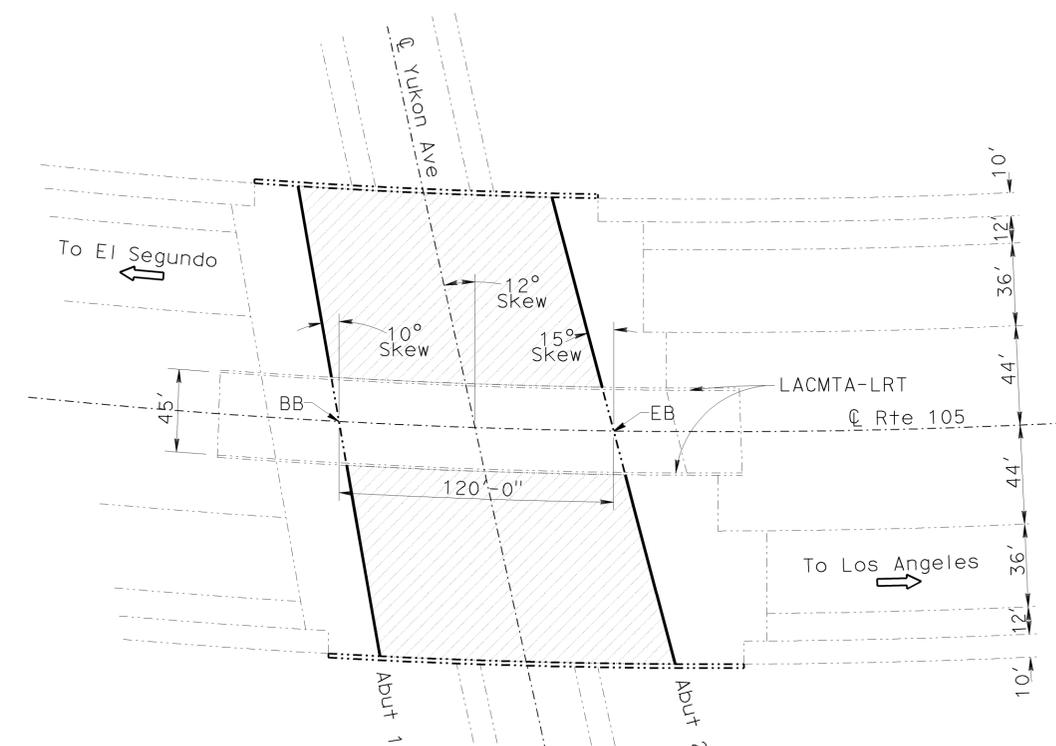
**CRENSHAW BOULEVARD UC**

Br No. 53-2519, Rte 105, PM R4.73  
1" = 40'

CRENSHAW BLVD UC #53-2519  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	58,640 SQFT
TREAT BRIDGE DECK	58,640 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	733 GAL

NOTE:  
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**YUKON AVENUE UC**

Br No. 53-2598, Rte 105, PM R4.23  
1" = 40'

YUKON AVENUE UC #53-2598  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	19,080 SQFT
TREAT BRIDGE DECK	19,080 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	239 GAL
CLEAN EXPANSION JOINT	328 LF
JOINT SEAL (MR 1 1/2")	328 LF

TONY D. BRAKE  
DESIGN ENGINEER

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

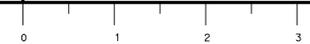
DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

**ROUTE 105 BRIDGES  
GENERAL PLAN NO. 7**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489  
PROJECT NUMBER & PHASE: 0712000359 1 CONTRACT NO.: 07-1W5804

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
06-08-13 07-16-13 09-23-13 10-30-13	07	11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	R0.5/R6.3	31	34

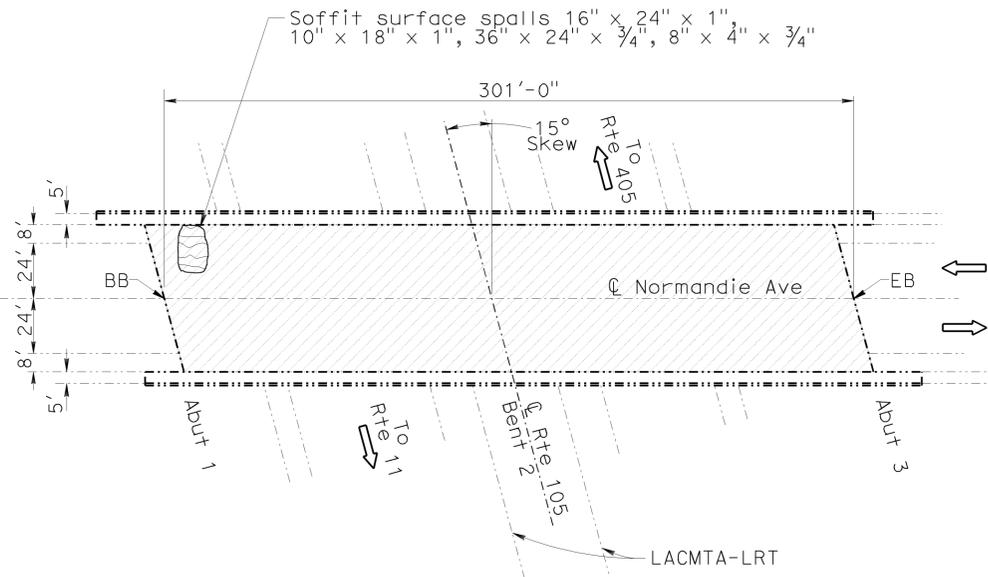
REGISTERED CIVIL ENGINEER DATE 09-26-13  
 REGISTERED PROFESSIONAL ENGINEER  
 MAZIN S. IBRAHIM  
 No. C69896  
 Exp. 09/30/14  
 CIVIL  
 STATE OF CALIFORNIA  
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**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
- ▩ Indicates removal of unsound concrete and place rapid setting concrete (patch).

**NOTE:**

- For spalled surface repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

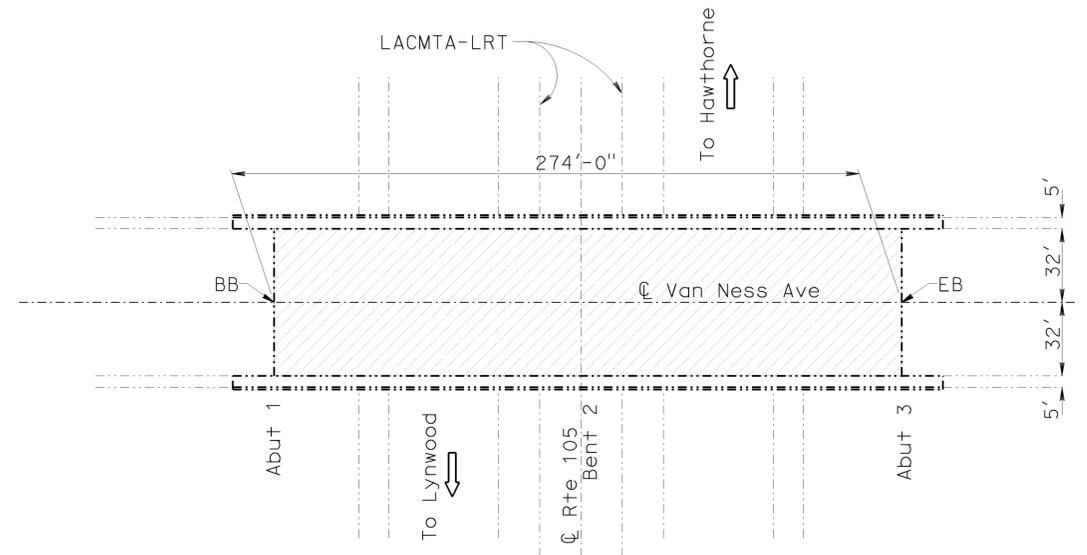


**NORMANDIE AVENUE OC**

Br No. 53-2525, Rte 105, PM R6.25  
1" = 40'

NORMANDIE AVENUE OC #53-2525  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	11 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	19,270 SQFT
TREAT BRIDGE DECK	19,270 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	241 GAL



**VAN NESS AVENUE OC**

Br No. 53-2520, Rte 105, PM R5.23  
1" = 40'

VAN NESS AVENUE OC #53-2520  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	17,540 SQFT
TREAT BRIDGE DECK	17,540 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	220 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.

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	<b>ROUTE 105 BRIDGES</b> <b>GENERAL PLAN NO. 8</b>
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim	
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Li Xiahong	CHECKED Li Xiahong	PLANS AND SPECS COMPARED	Varies	

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489  
PROJECT NUMBER & PHASE: 0712000359 1 CONTRACT NO.: 07-1W5804

DISREGARD PRINTS BEARING EARLIER REVISION DATES

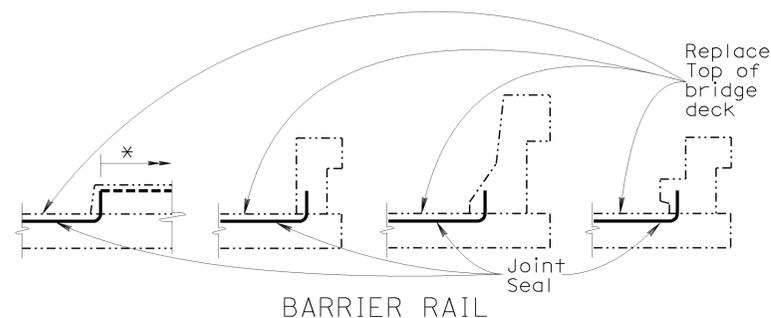
REVISION DATES	SHEET	OF
06-08-13	08	11

FILE => 07-1w5801-a-gp08.dgn

## JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION	MINIMUM "MR" (INCHES)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX JOINT LENGTH (ft)
Imperial Hwy WB Off-Ramp	53-2807K	Abut BB	1.5	Yes	12	47
		Abut EB	1.5	Yes	12	28
120th St OC	53-1240H	Abut 1	1.5	No	6	39
		Abut 4	1.5	No	6	42
Prairie Ave OC	53-2517	Abut 1	1.5	No	6	126
		Abut 5	1.5	No	6	126
Dominguez Channel	53-2518	Abut 1	1.5	No	6	266
		Abut 2	1.5	No	6	267
Yukon Ave UC	53-2598	Abut 1	1.5	No	6	164
		Abut 2	1.5	No	6	164

PN = Paving Notch



### JOINT SEAL AT LOW SIDE OF DECK

Details shown for illustration purposes only.

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

\* Extension of joint will be determined by the Engineer if necessary.

### NOTES:

The following notes apply to JOINT SEAL TYPE A:

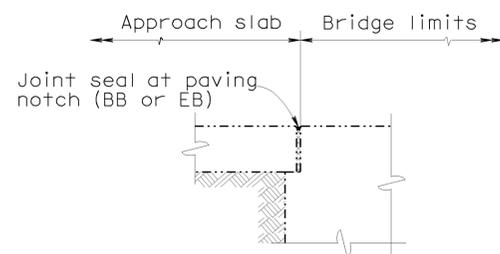
Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see Standard Plan B6-21.

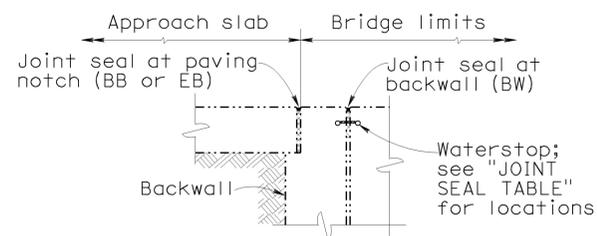
The following notes apply to JOINT SEAL TYPE B:

- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- 2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.
- 3) W1 shall be the smaller of the values determined as follows:
  - A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
  - B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.
- 4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

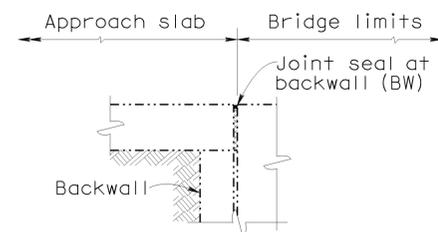
For details not shown see Standard Plan B6-21.



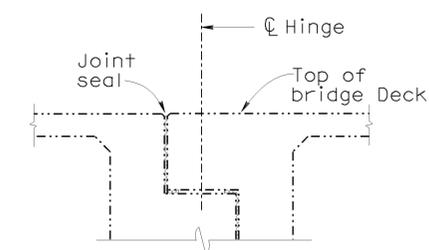
DIAPHRAGM ABUTMENT



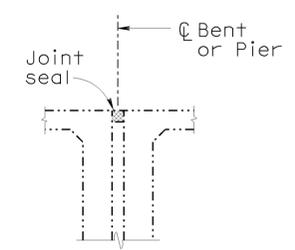
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

### JOINT SEAL LOCATION

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

NOTE:  
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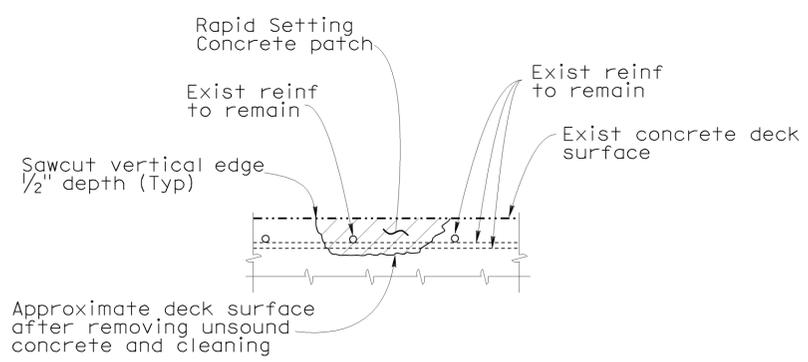
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	105	RO.5/R6.3	32	34

09-26-13  
 REGISTERED CIVIL ENGINEER DATE

**10-28-13**  
 PLANS APPROVAL DATE

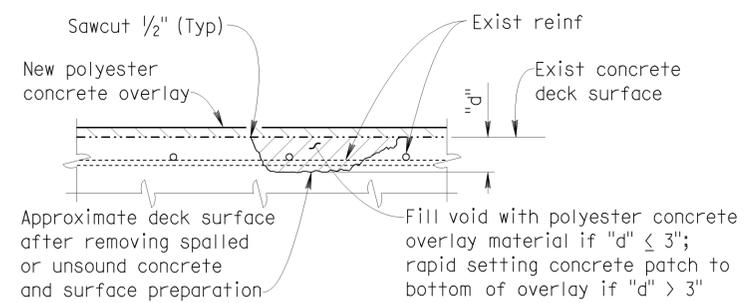
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESIGN</td> <td style="width: 30%;">BY Mazin Ibrahim</td> <td style="width: 40%;">CHECKED Hong Tien Tran</td> </tr> <tr> <td>DETAILS</td> <td>BY Clayton Tom</td> <td>CHECKED Mazin Ibrahim</td> </tr> <tr> <td>QUANTITIES</td> <td>BY Mazin Ibrahim</td> <td>CHECKED Hong Tien Tran</td> </tr> </table>	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO. Various POST MILE Varies	<b>ROUTE 105 BRIDGES</b> <b>MISCELLANEOUS DETAILS NO. 1</b>			
DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran														
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim														
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran														
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 0712000359 1 CONTRACT NO.: 07-1W5804	DISREGARD PRINTS BEARING EARLIER REVISION DATES												
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4">REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td style="width: 25%;">06-06-13</td> <td style="width: 25%;">07-16-13</td> <td style="width: 25%;">09-23-13</td> <td style="width: 25%;">10-30-13</td> <td style="width: 10%;">09</td> <td style="width: 10%;">11</td> </tr> </table>	REVISION DATES				SHEET	OF	06-06-13	07-16-13	09-23-13	10-30-13	09	11	
REVISION DATES				SHEET	OF											
06-06-13	07-16-13	09-23-13	10-30-13	09	11											



**DECK DAMAGE REPAIR DETAIL**

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

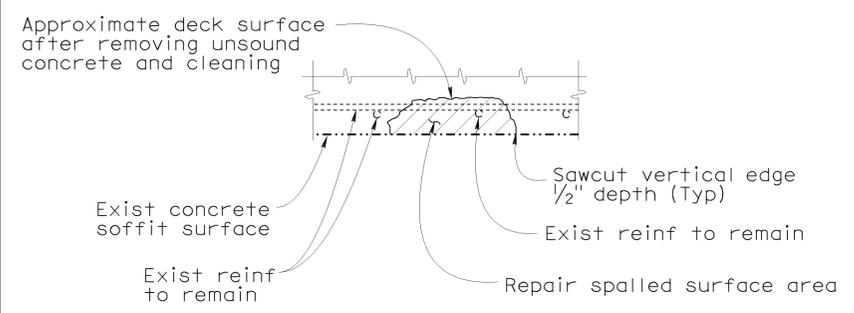


**DECK REPAIR DETAIL - OVERLAY**

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

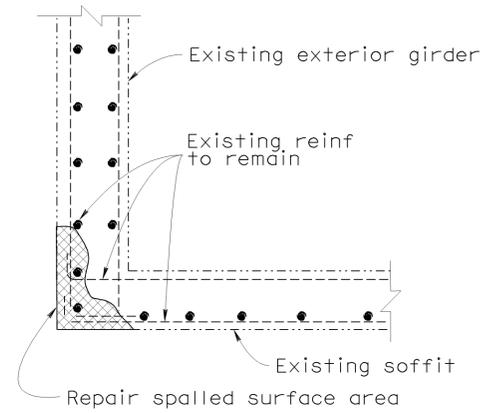
**DECK REPAIR NOTES:**

- Existing reinforcement shall be 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 bars 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**

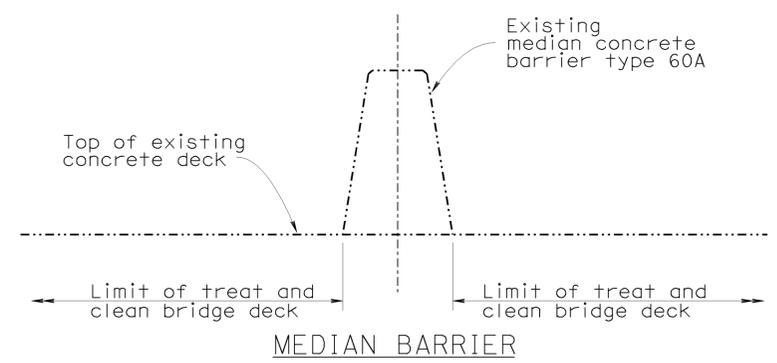
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



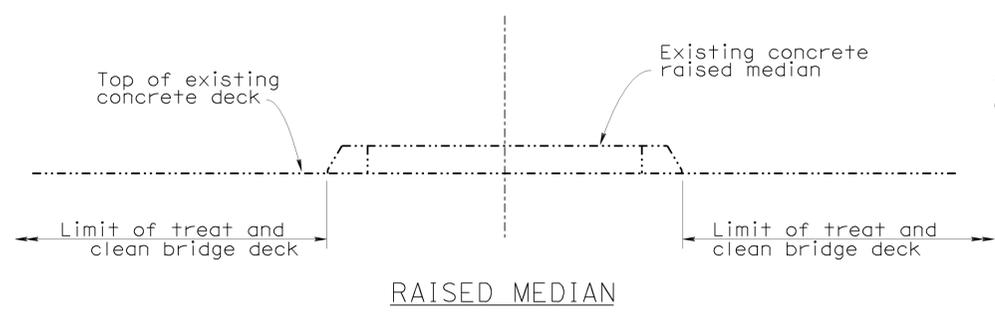
**SPALLED SURFACE AREA DETAIL**

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

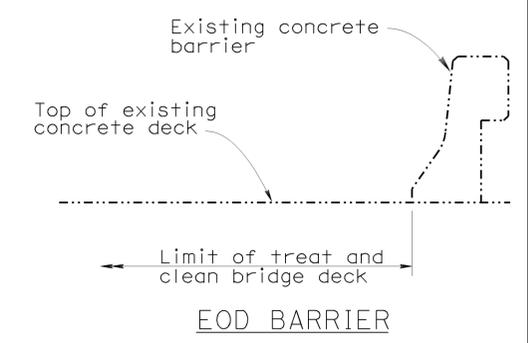
DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCH)



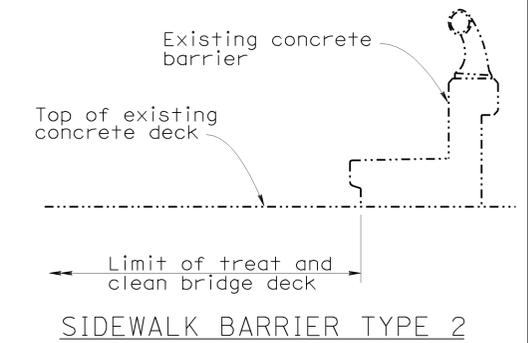
**MEDIAN BARRIER**



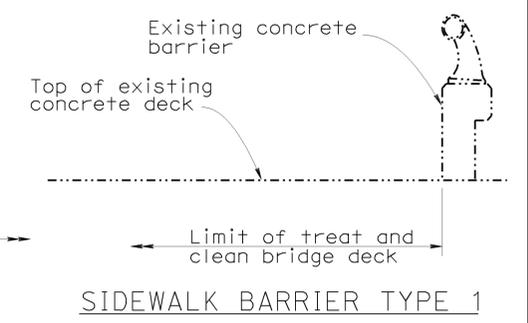
**RAISED MEDIAN**



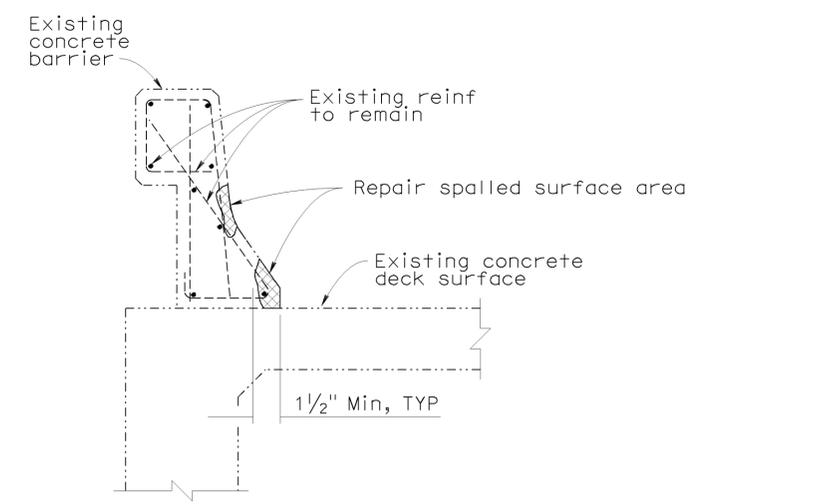
**EOD BARRIER**



**SIDEWALK BARRIER TYPE 2**



**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

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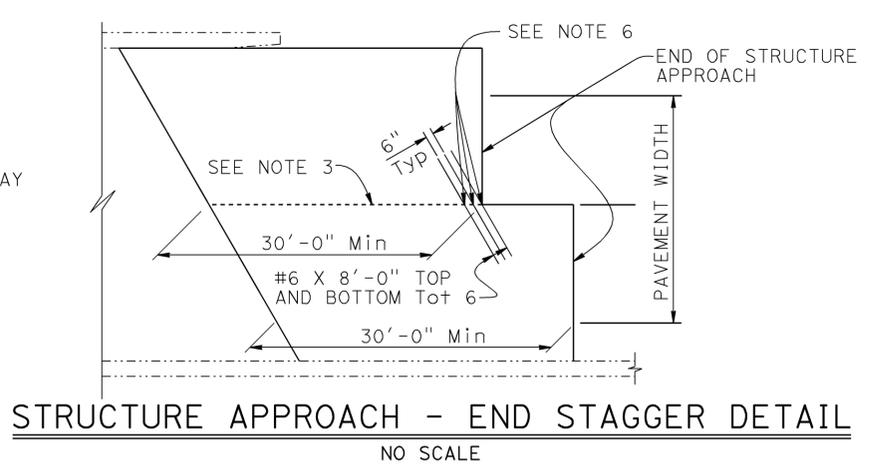
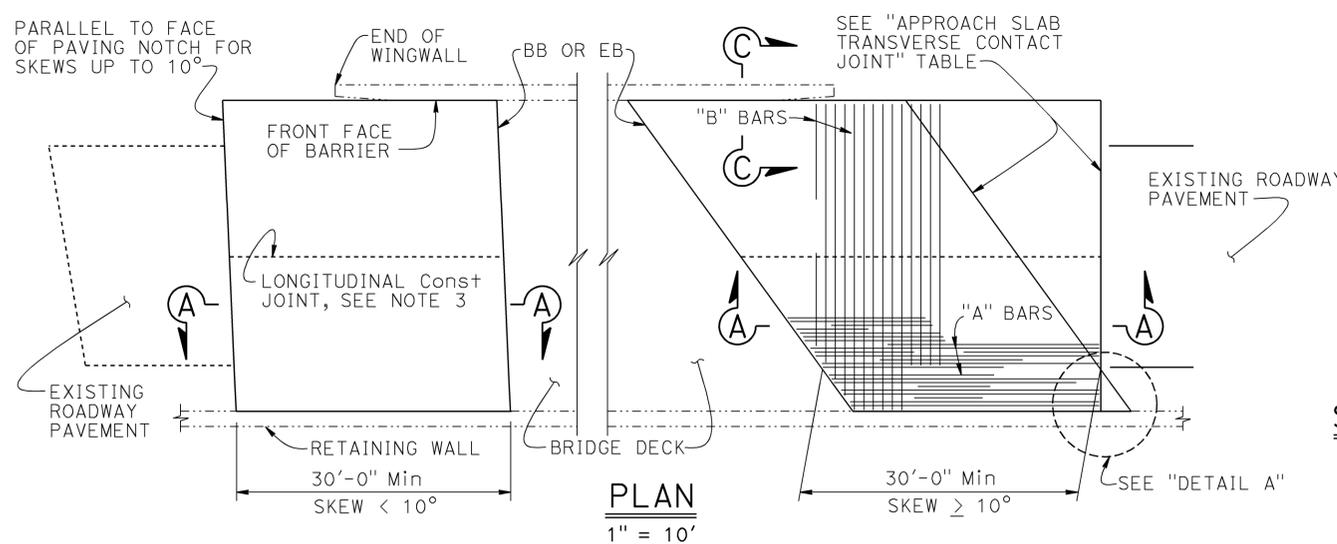
DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

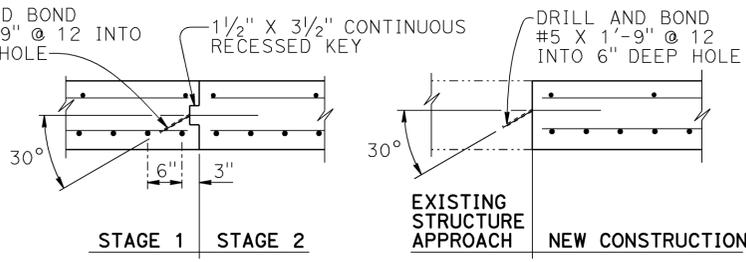
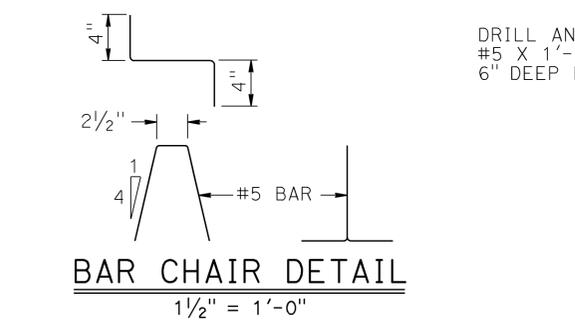
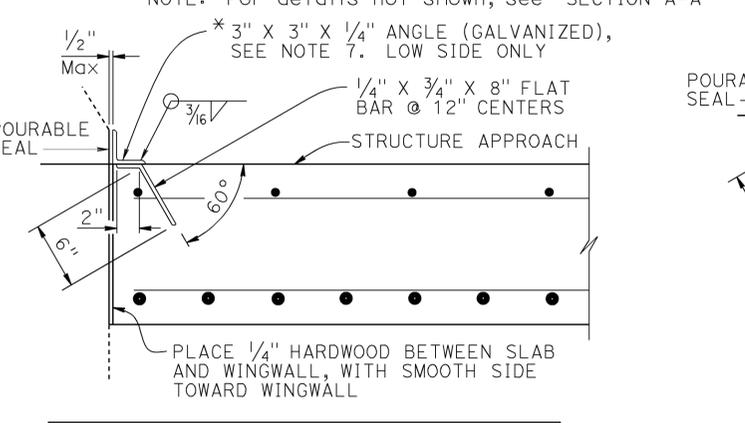
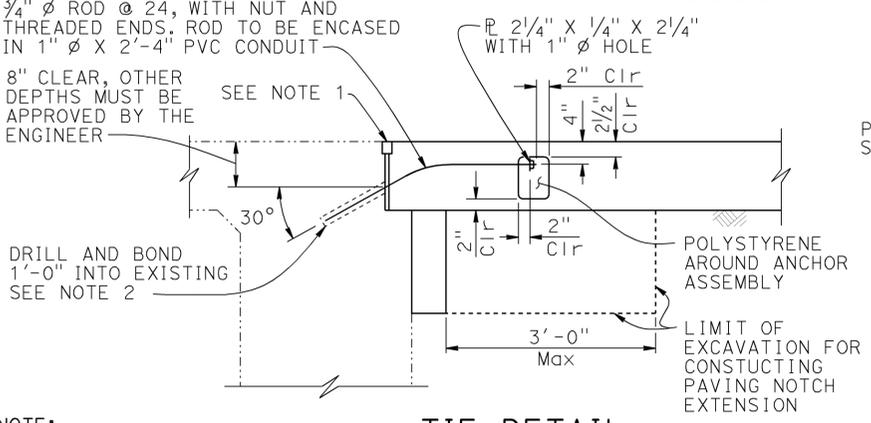
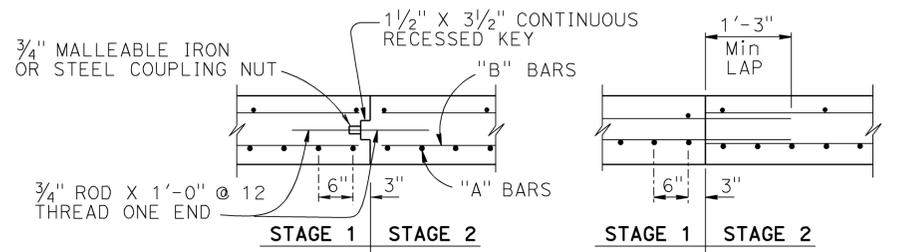
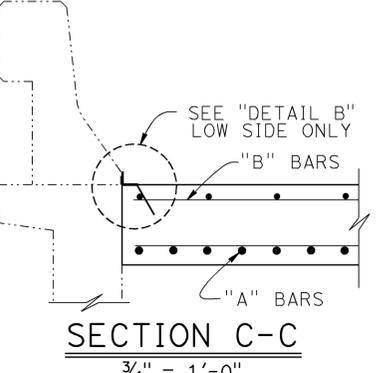
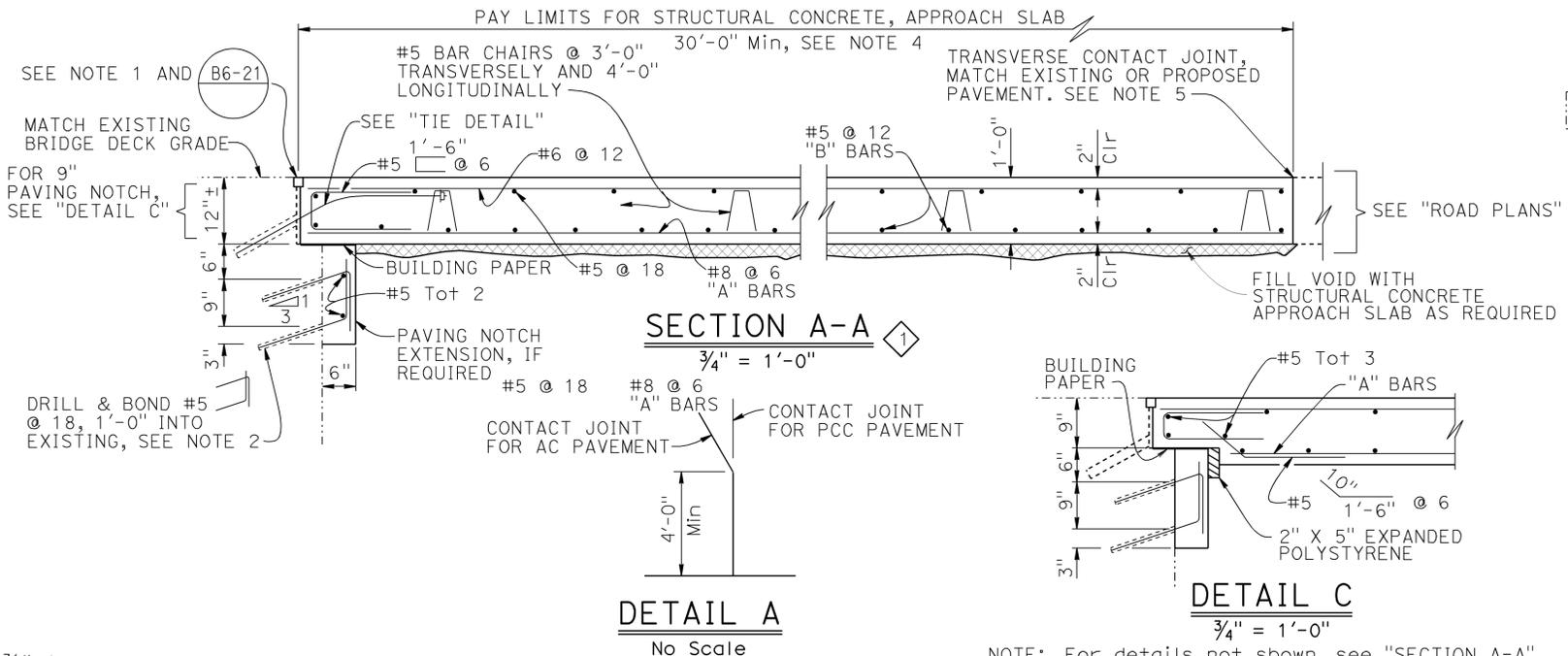
DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

ROUTE 105 BRIDGES  
MISCELLANEOUS DETAILS NO. 2



APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PAVING NOTCH
10° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE

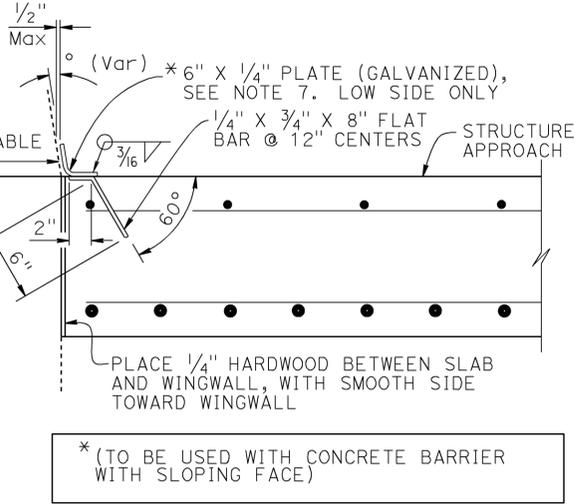


- NOTES:
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
  - Space to avoid existing prestress anchorages and main reinforcement
  - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines
  - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint
  - For transverse contact joint with new PCC paving, refer to Standard Plan P10
  - Couplers are required for stage construction
  - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable

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

**TIE DETAIL**  
3/4" = 1'-0"

**DETAIL B**  
1/2" = 1'-0"



REVISED STANDARD DRAWING		REVISED
FILE NO. <b>xs3-150</b>	APPROVAL DATE July 2011	

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF ENGINEERING SERVICES

**SPECIAL DETAILS**  
**ROUTE 105 BRIDGES**  
**STRUCTURE APPROACH TYPE R(30D)**