

INDEX OF PLANS

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STRUCTURE PLANS

30-48 ROUTE 5, 10, 57, 60, 605, 710 BRIDGES

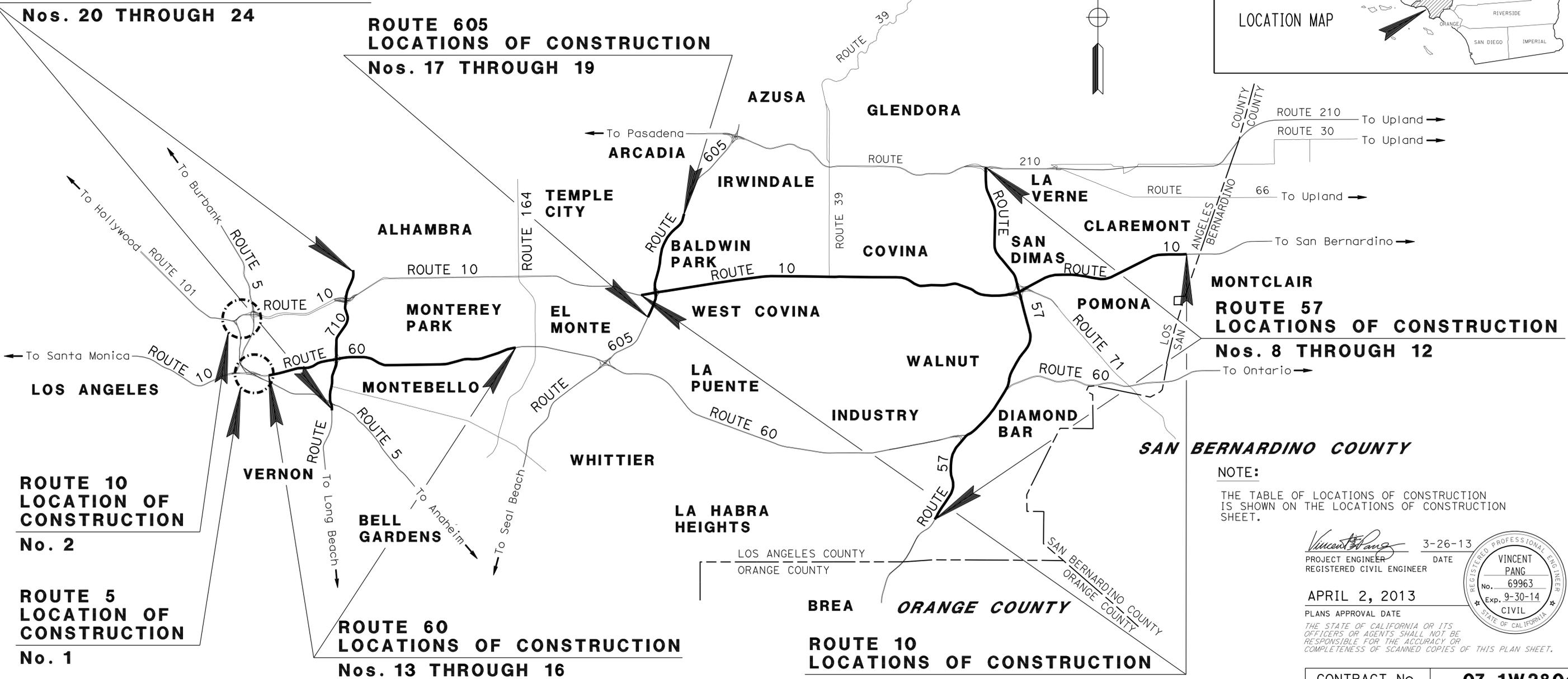
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

**ROUTE 710 LOCATIONS OF CONSTRUCTION**

**Nos. 20 THROUGH 24**

**ROUTE 605 LOCATIONS OF CONSTRUCTION**

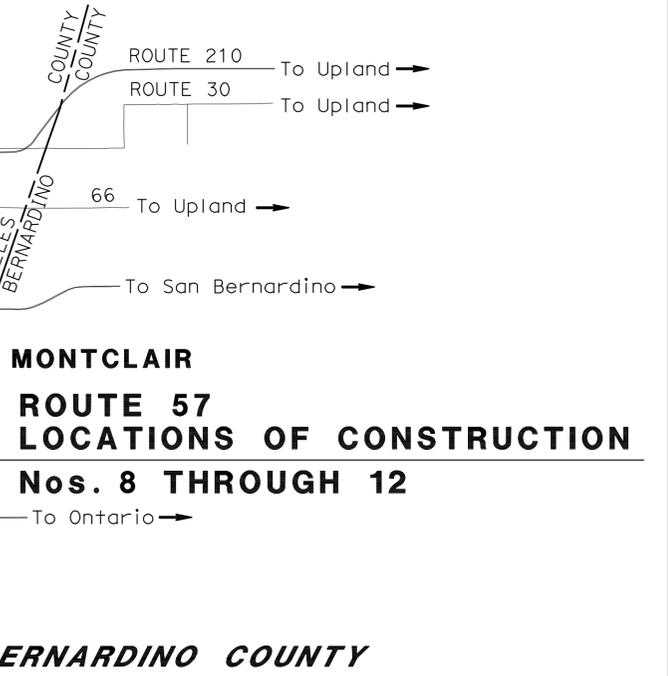
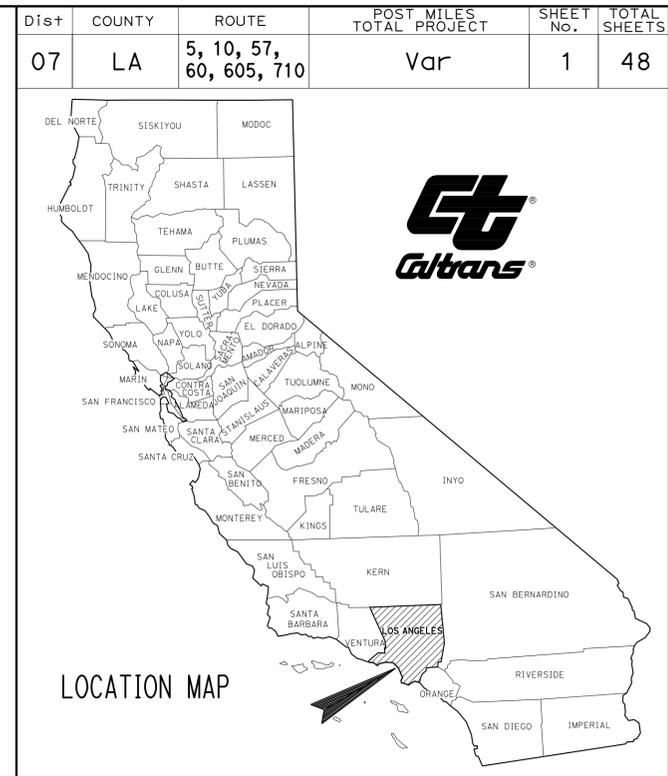
**Nos. 17 THROUGH 19**



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

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

**LOS ANGELES COUNTY**



**NOTE:**  
 THE TABLE OF LOCATIONS OF CONSTRUCTION IS SHOWN ON THE LOCATIONS OF CONSTRUCTION SHEET.

3-26-13  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER

VINCENT PANG

No. 69963  
Exp. 9-30-14  
CIVIL

STATE OF CALIFORNIA

APRIL 2, 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.

PROJECT MANAGER  
**CHRISTIAN SAM**  
 DESIGN ENGINEER  
**LARRY WIERING**

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

NO SCALE



USERNAME => s122436  
 DGN FILE => 71w280ab001.dgn

CONTRACT No.	<b>07-1W2804</b>
PROJECT ID	<b>0700021230</b>

DATE PLOTTED => 26-MAR-2013  
 TIME PLOTTED => 23:15  
 LAST REVISION 04-02-13

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

FUNCTIONAL SUPERVISOR  
 LARRY WIERING

CALCULATED/DESIGNED BY  
 CHECKED BY

VINCENT PANG  
 LARRY WIERING

REVISED BY  
 DATE REVISED

**LOCATIONS OF CONSTRUCTION**

Loc	ROUTE	PM	BRIDGE No.	BRIDGE NAME
1	5	16.29	53-0600	MARIETTA St UC
2	10	30.84	53-1331F	OUTER W. CONNECTOR OC (W10-S5)
3		30.84	53-0109L	SAN GABRIEL RIVER
4		42.45	53-2007F	W10-S57 CONNECTOR OC
5		44.19	53-0851	DUDLEY St UC
6		45.28	53-0853	WHITE Ave UC
7		47.74	53-0860	INDIAN HILL Blvd UC
8		57	R2.52	53-2163
9	R7.30		53-1998	SAN JOSE WASH FLOOD CONTROL CHANNEL
10	R7.68		53-2001F	S57-E10 CONNECTOR OC
11	R10.57		53-1969	CIENEGA Ave UC
12	60	R11.65	53-1992L	N57-W210/W210-S57 CONNECTOR SEPARATION
13		R1.27	53-0075L	WHITTIER Blvd UC
14		R2.94	53-0774	MARIANNA Ave PEDESTRIAN OVERCROSSING
15		R3.25	53-0389	ROUTE 60/710 SEPARATION
16	605	R6.30	53-1709K	MARKLAND Dr UC
17		R19.39	53-1537	RIVERGRADE OH
18		R20.09	53-1631	SOUTH CONNECTOR UC
19	710	22.69	53-2032R	SAN GABRIEL RIVER
20		23.19	53-0785R	ROUTE 710/5 SEPARATION
21		25.21	53-1155	FLORAL Dr UC
22		26.47	53-1445L	ROUTE 710/10 SEPARATION
23		R26.56	53-1447G	N710-E&W10 CONNECTOR OC
24		R27.11	53-1708	HELLMAN Ave OC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	2	48

REGISTERED CIVIL ENGINEER DATE 3-26-13  
 4-02-13  
 PLANS APPROVAL DATE

VINCENT PANG  
 No. 69963  
 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.

**LOCATIONS OF CONSTRUCTION**

**LC-1**

LAST REVISION DATE PLOTTED => 28-MAR-2013  
 04-02-13 TIME PLOTTED => 2:3:15

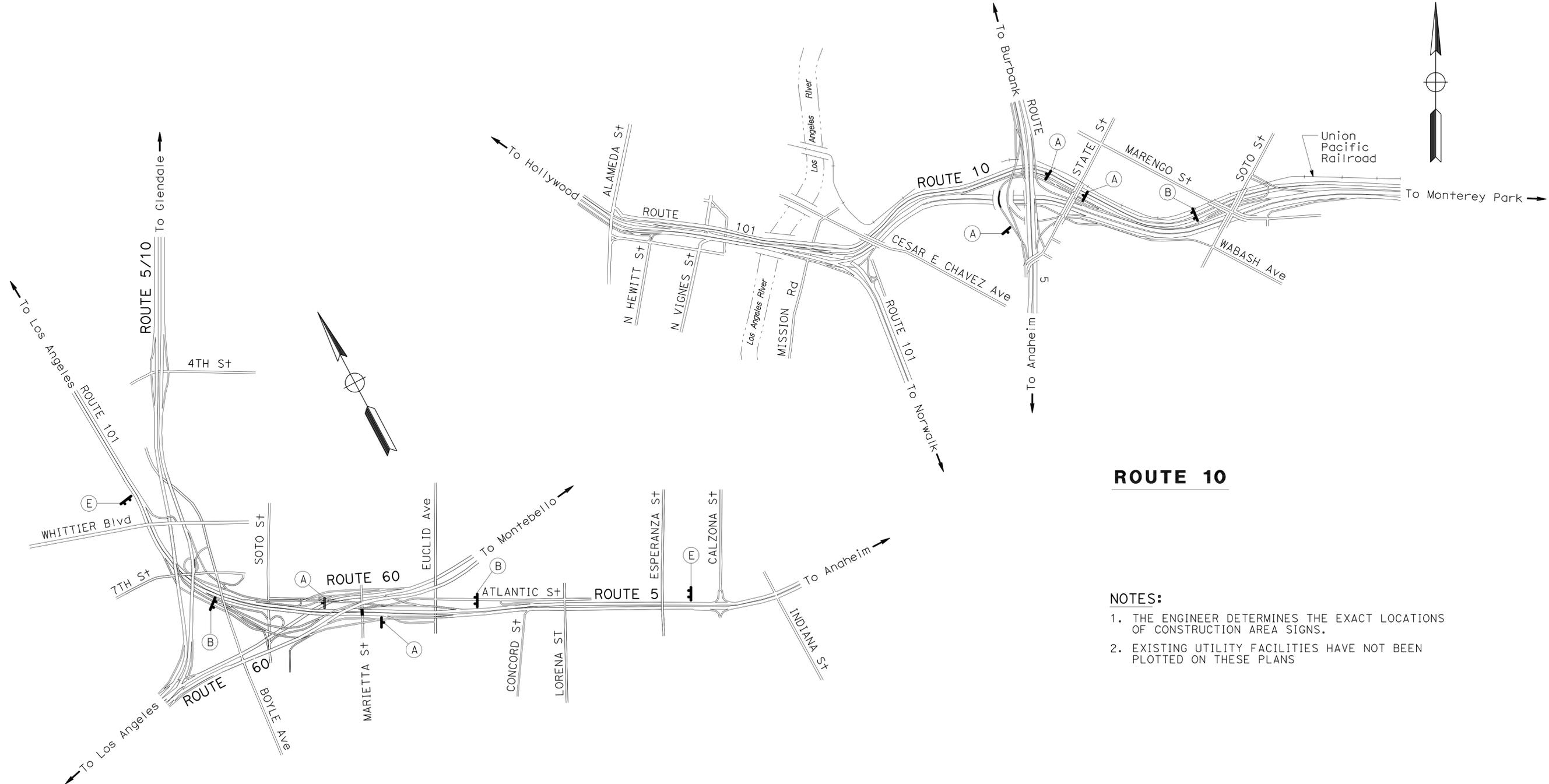
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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3-26-13  
 REGISTERED CIVIL ENGINEER DATE  
 4-02-13  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 VINCENT PANG  
 No. 69963  
 Exp. 9-30-14  
 CIVIL  
 STATE OF CALIFORNIA

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS										
SIGN NUMBER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS				
	FEDERAL	CALIFORNIA				CS-1	CS-2	CS-3	CS-4	CS-5
(A)	G20-2		48" x 24"	END ROAD WORK	1 - 4" x 6"	5	10	14	9	20
(B)	W20-1		60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	3	10	11	6	16
(C)	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"		2			2
(D)	W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"		2			2
(E)		C40 (CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	2	6	4	3	10



**ROUTE 10**

- NOTES:**
1. THE ENGINEER DETERMINES THE EXACT LOCATIONS OF CONSTRUCTION AREA SIGNS.
  2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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

REVISOR BY DATE

VINCENT PANG LARRY WIERING

CALCULATED/DESIGNED BY CHECKED BY

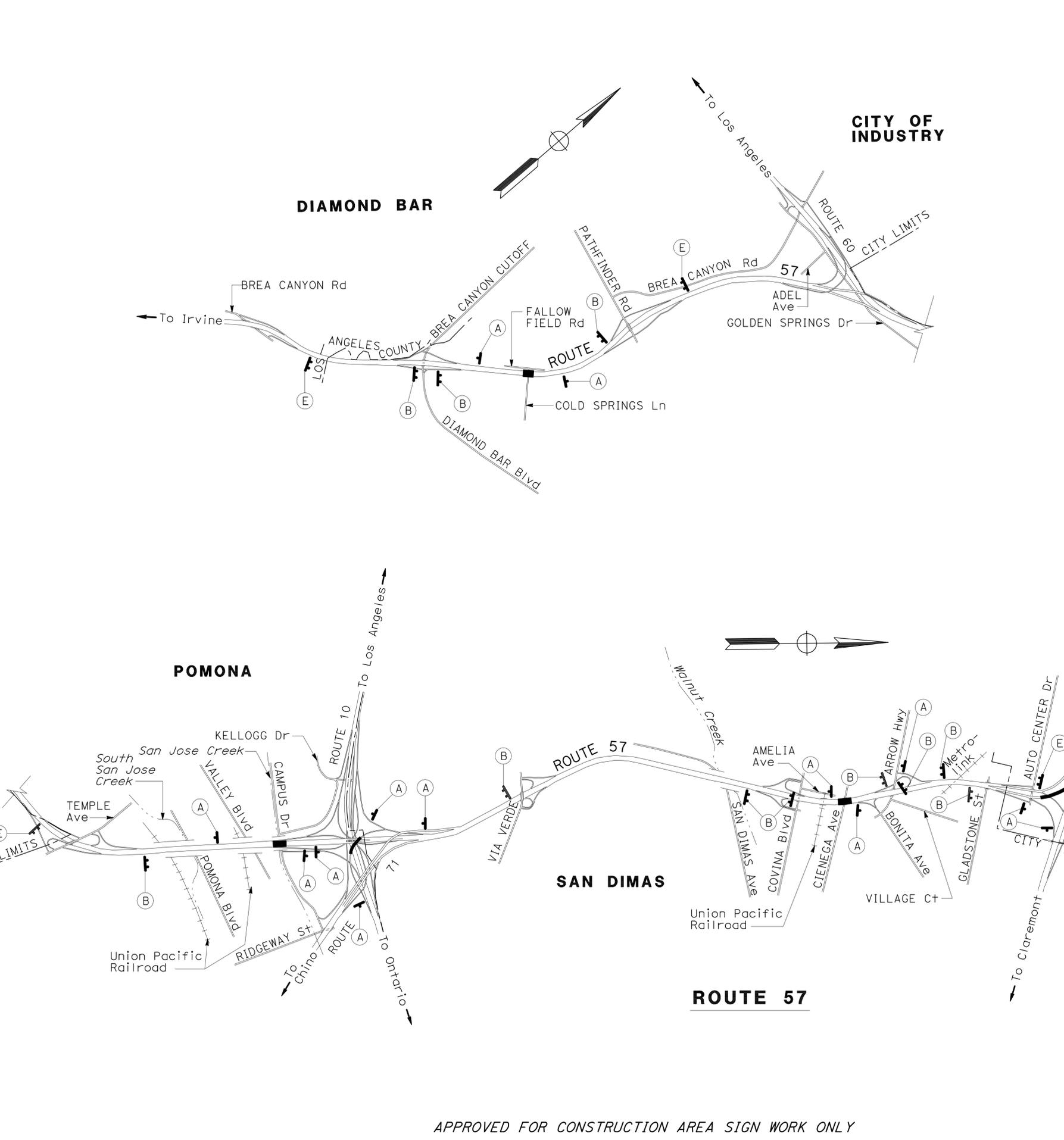
FUNCTIONAL SUPERVISOR LARRY WIERING

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



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

FUNCTIONAL SUPERVISOR	LARRY WIERING
CALCULATED/DESIGNED BY	CHECKED BY
VINCENT PANG	LARRY WIERING
REVISED BY	DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	5	48

Vincent Pang 3-26-13  
 REGISTERED CIVIL ENGINEER DATE

4-02-13  
 PLANS APPROVAL DATE

VINCENT PANG  
 No. 69963  
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 CIVIL

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**CONSTRUCTION AREA SIGNS**  
 NO SCALE  
**CS-3**

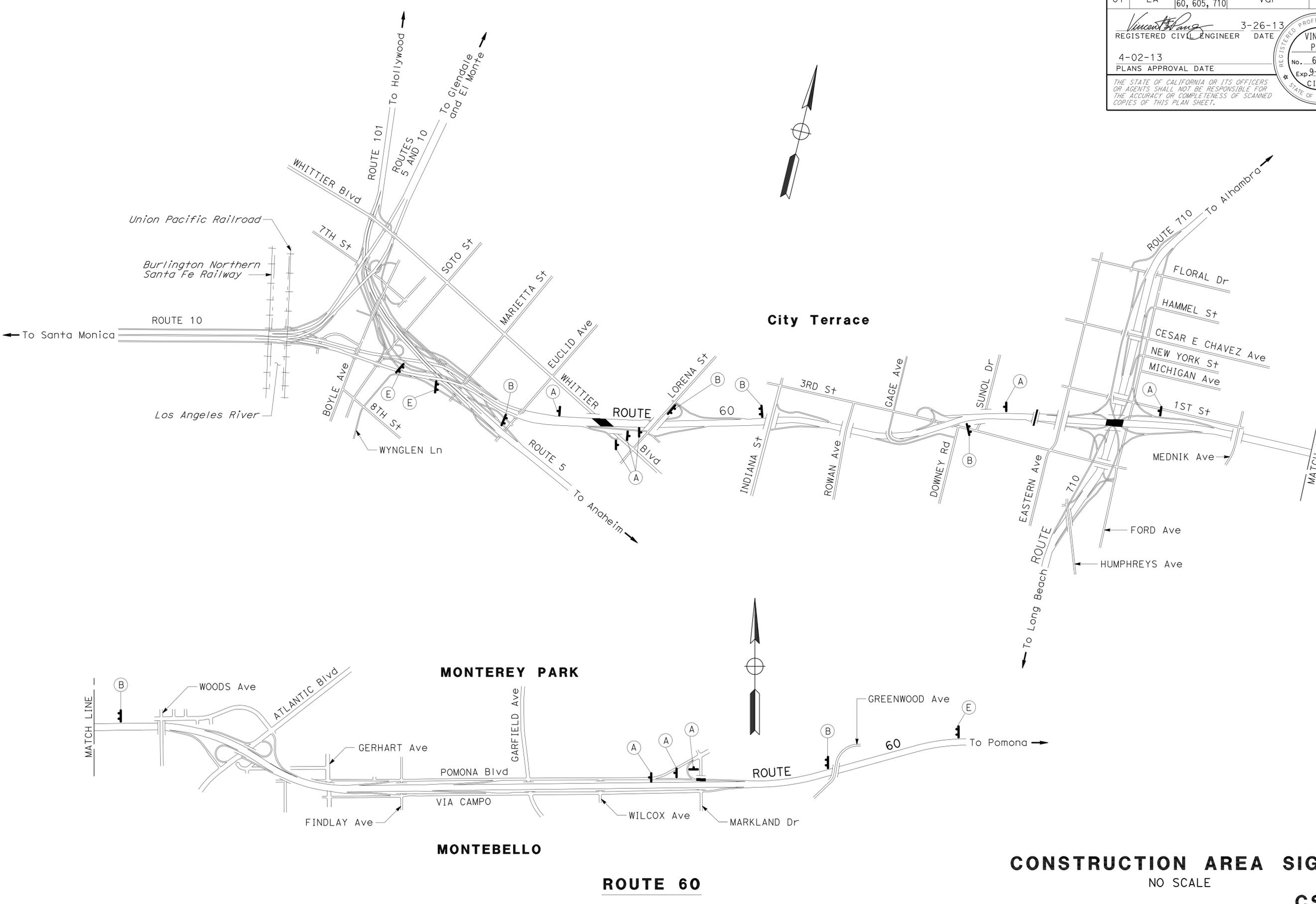
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	6	48

3-26-13  
 REGISTERED CIVIL ENGINEER DATE  
 4-02-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 VINCENT PANG  
 No. 69963  
 Exp. 9-30-14  
 CIVIL  
 STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR: LARRY WIERING  
 CALCULATED/DESIGNED BY: LARRY WIERING  
 CHECKED BY:  
 VINCENT PANG  
 LARRY WIERING  
 REVISED BY: LARRY WIERING  
 DATE REVISED:

**CONSTRUCTION AREA SIGNS**  
 NO SCALE  
**CS-4**

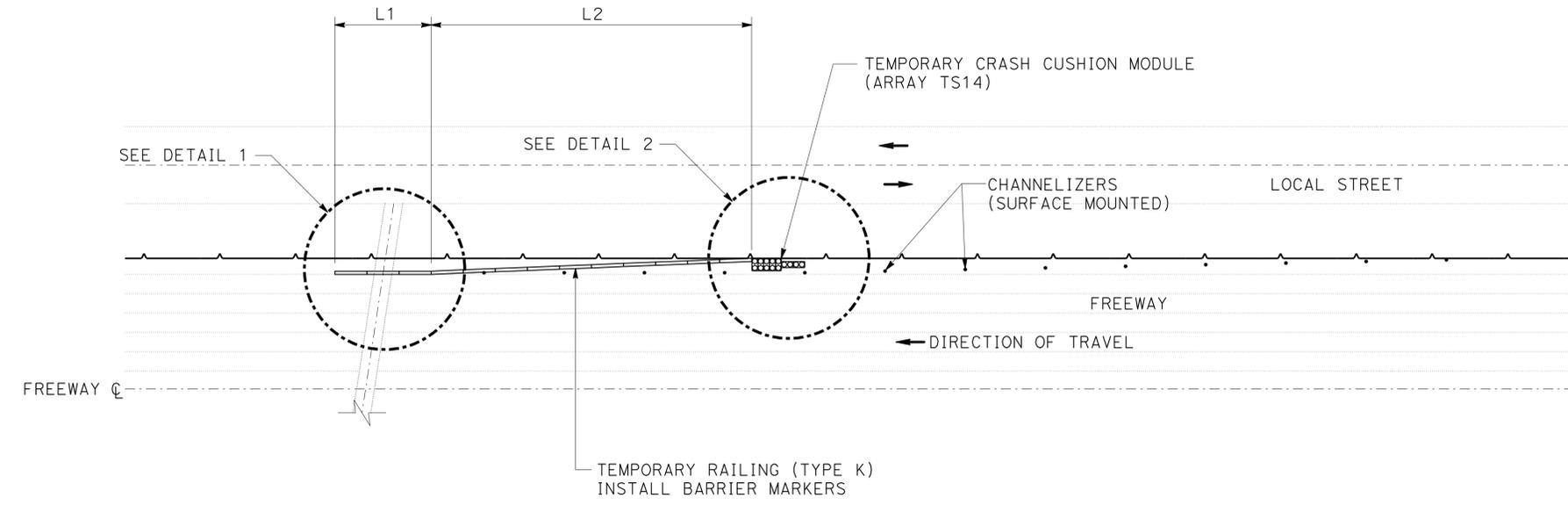
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER DATE 3-26-13  
 4-02-13 PLANS APPROVAL DATE  
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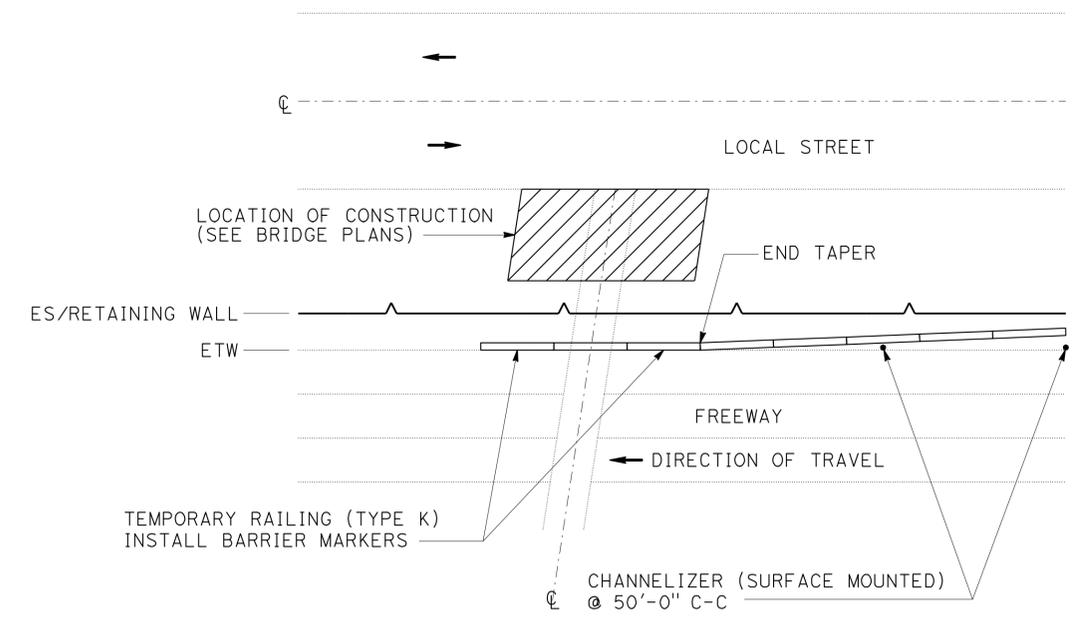
REGISTERED PROFESSIONAL ENGINEER  
**VINCENT PANG**  
 No. 69963  
 Exp. 9-30-14  
 CIVIL  
 STATE OF CALIFORNIA



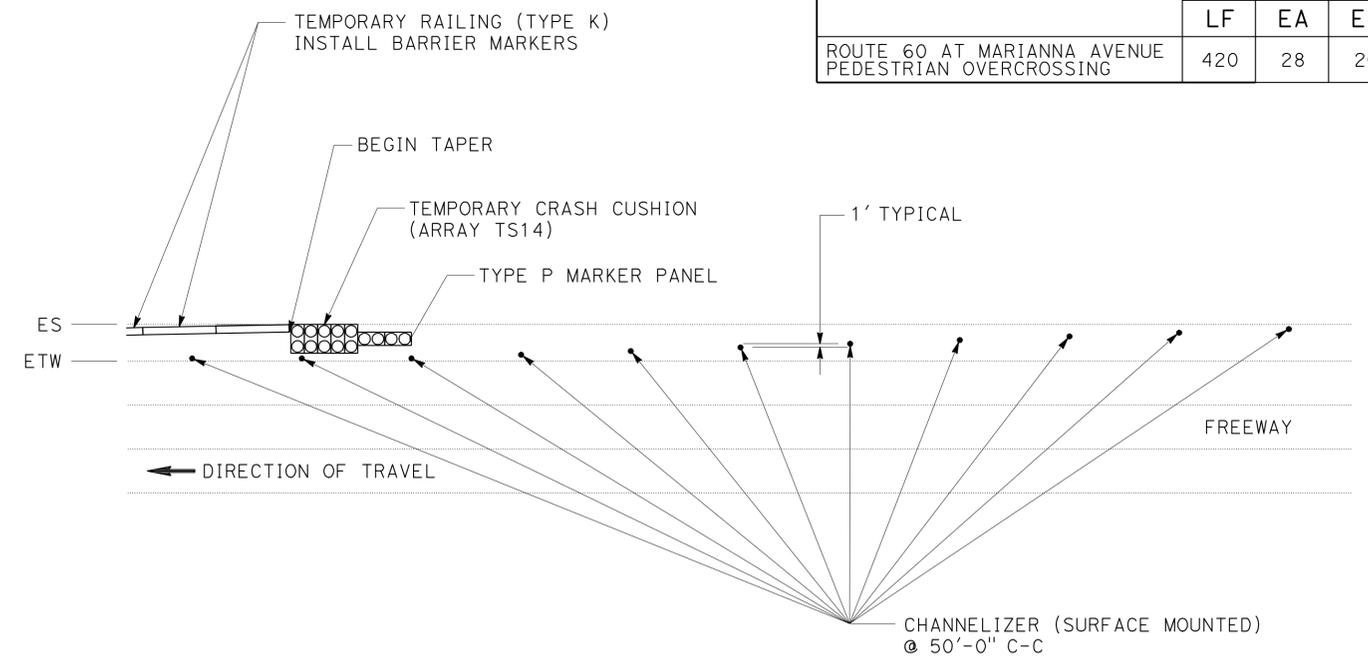
**TYPICAL PLAN VIEW  
MARIANNA Ave PEDESTRIAN OVERCROSSING**

LOCATION	L1	L2
	FT	FT
WB ROUTE 60 AT MARIANNA Ave POC	60	140
EB ROUTE 60 AT MARIANNA Ave POC	60	160

TRAFFIC HANDLING QUANTITIES			
LOCATION	TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION MODULE	CHANNELIZER (SURFACE MOUNTED)
	LF	EA	EA
ROUTE 60 AT MARIANNA AVENUE PEDESTRIAN OVERCROSSING	420	28	26



**DETAIL 1**



**DETAIL 2**

**TRAFFIC HANDLING PLAN**  
NO SCALE  
**TH-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE ENGINEERING  
 VINCENT PANG  
 LARRY WIERING  
 LARRY WIERING  
 LARRY WIERING

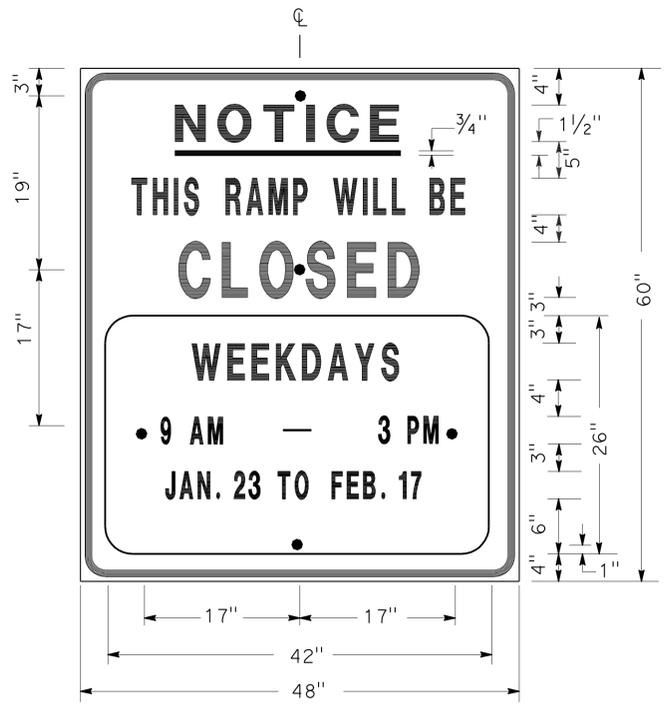
LAST REVISION | DATE PLOTTED => 28-MAR-2013  
 04-02-13 | TIME PLOTTED => 2:3:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	9	48

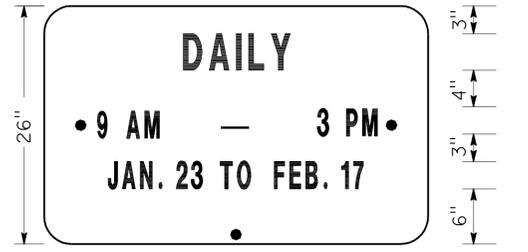
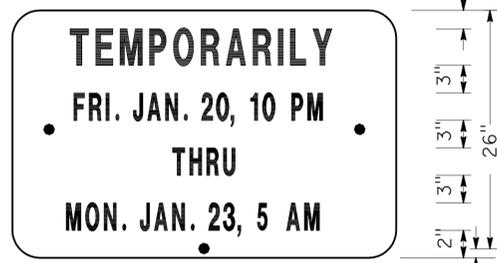
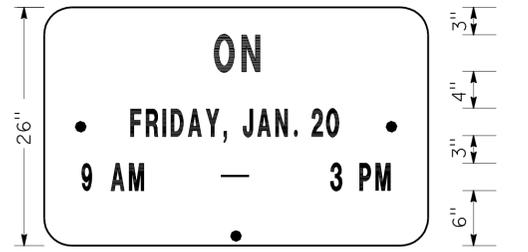
*R.M. Mishreki* 1-30-13  
 REGISTERED CIVIL ENGINEER DATE

4-02-13  
 PLANS APPROVAL DATE

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SIGN SP-1



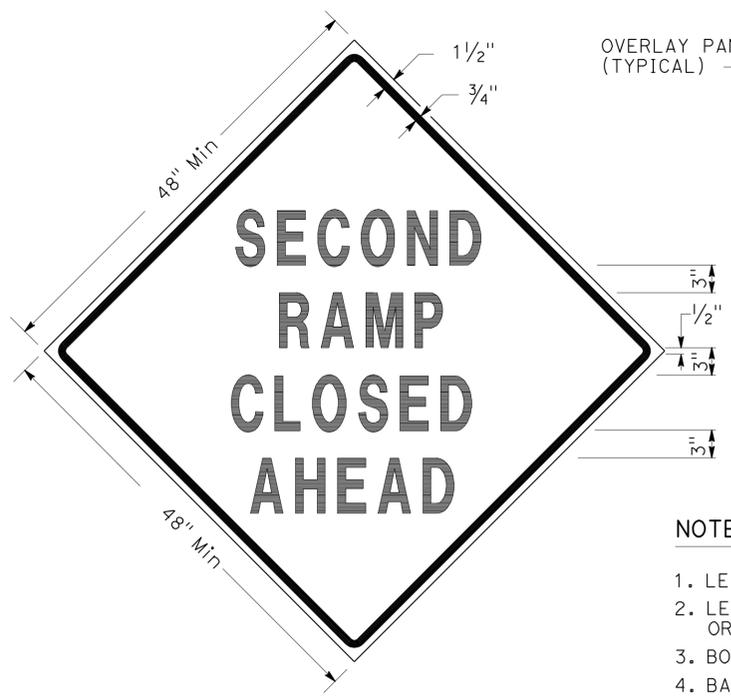
ALTERNATE OVERLAY PANELS (TYPICAL)

- 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**



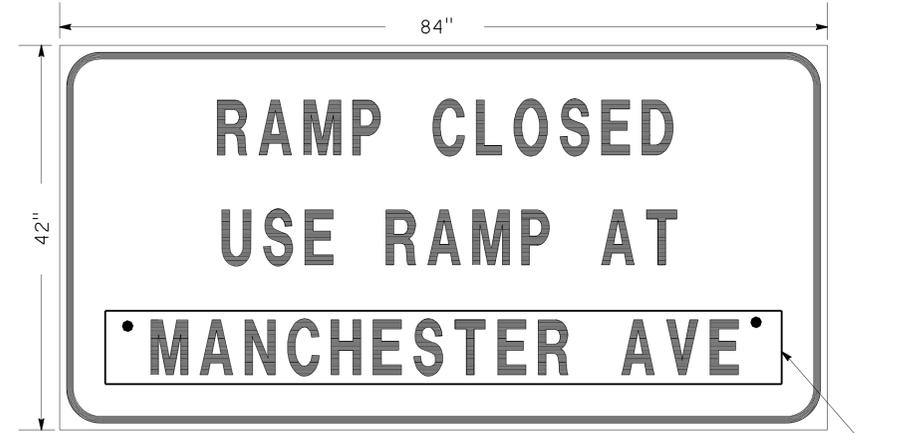
SIGN SP-3



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 TCS PLANS.

**SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES**

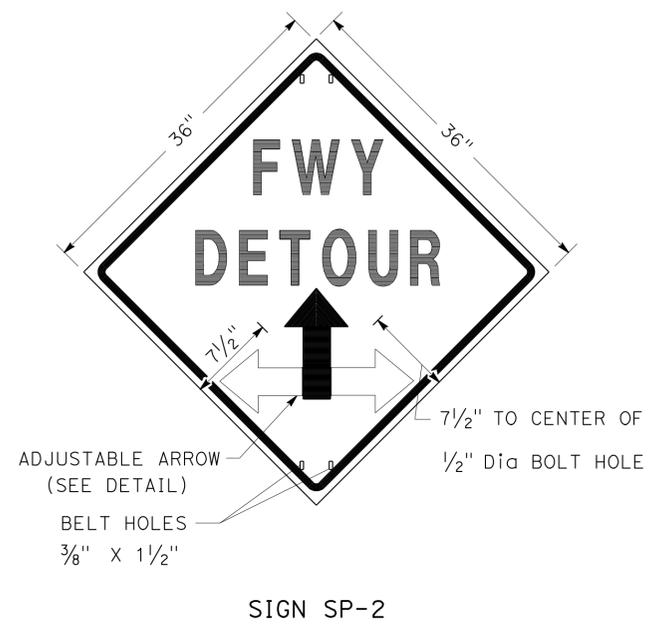
**TRAFFIC HANDLING DETAILS  
 TRAFFIC CONTROL SYSTEM  
 FOR RAMP CLOSURES, DETOUR SIGNS,  
 AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2  
 NO SCALE

THD-1

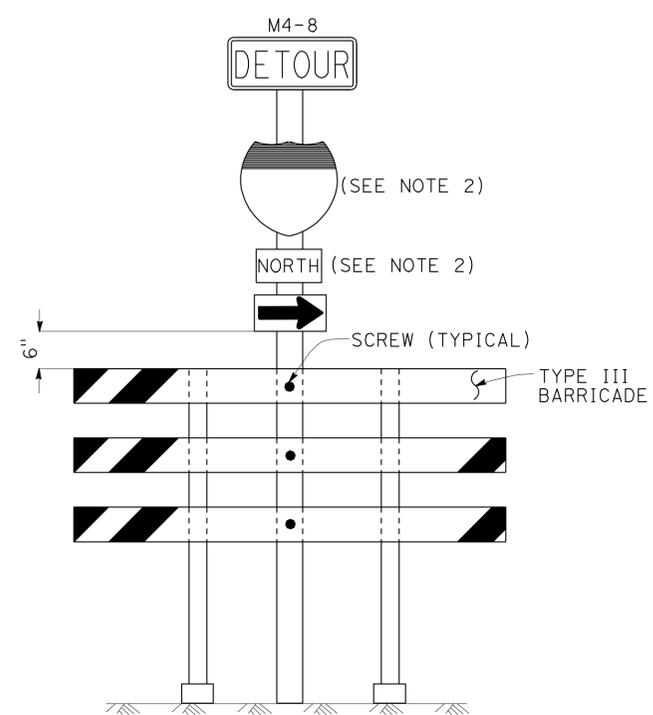
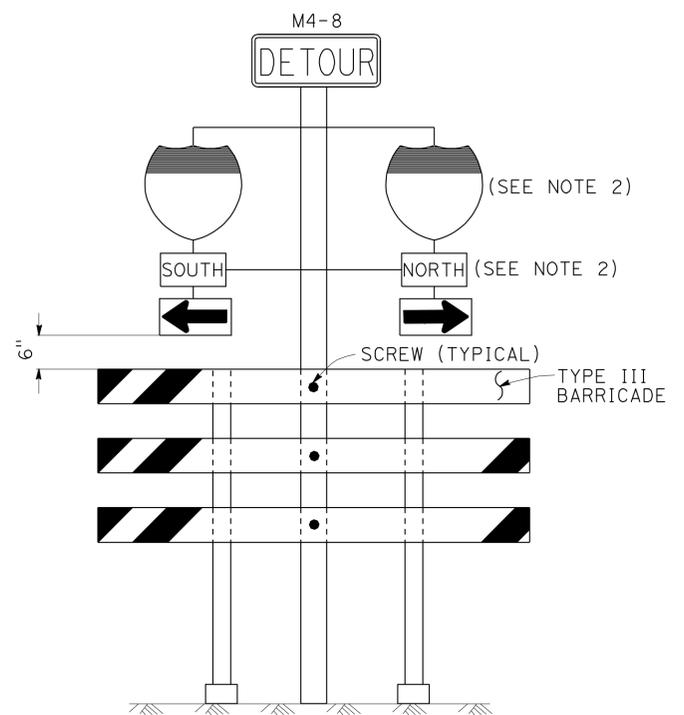
LAST REVISION: DATE PLOTTED => 28-MAR-2013  
 04-02-13 TIME PLOTTED => 2:3:16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTM  
 FUNCTIONAL SUPERVISOR DENIS KATAYAMA  
 CHECKED BY JOCELYN C CHIANG  
 REVISIONS BY JC 3/12  
 REVISIONS BY DATE



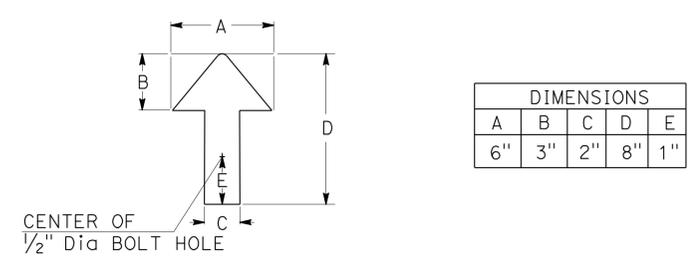
- NOTES:** SIGN SP-2
- LETTERS - 6" SERIES E.
  - LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
  - BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
  - BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.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



- 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**



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

**THD-2**

LAST REVISION DATE PLOTTED => 28-MAR-2013  
 04-02-13 TIME PLOTTED => 2:3:16

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07	LA	5, 10, 57, 60, 605, 710	Var	11	48

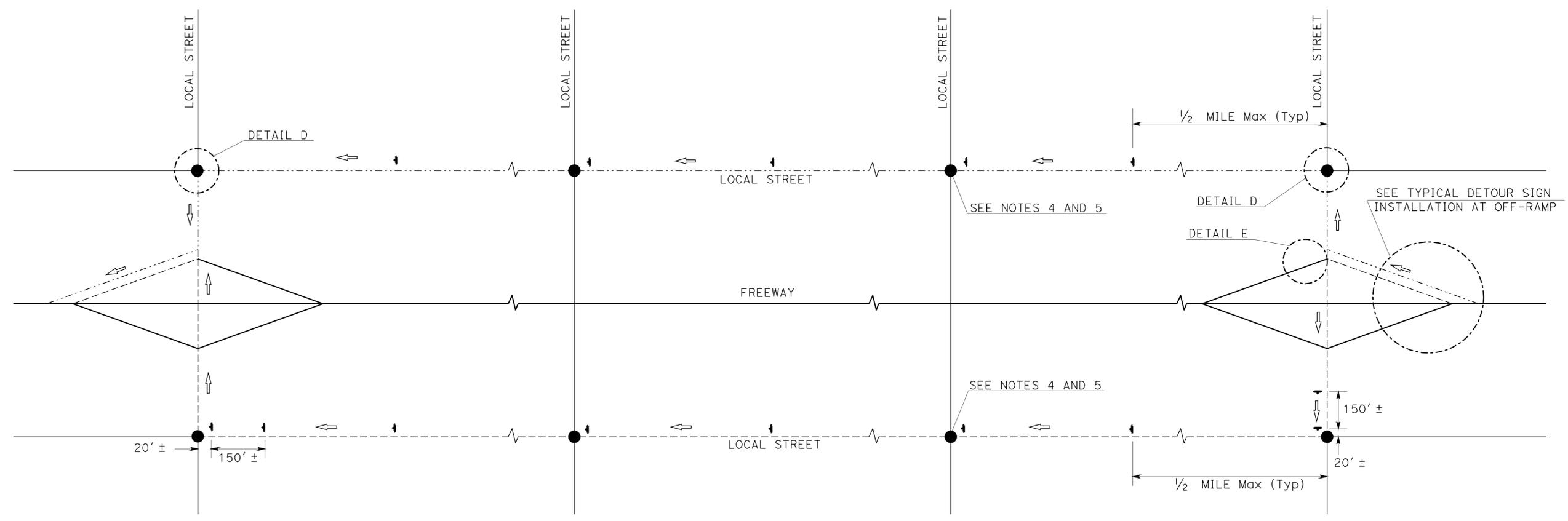
*R. M. Mishreki* 1-30-13  
 REGISTERED CIVIL ENGINEER DATE  
 4-02-13  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
**R.M. MISHREKI**  
 No. C68484  
 Exp. 9-30-13  
 CIVIL  
 STATE OF CALIFORNIA

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

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



**TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE**

**TRAFFIC HANDLING DETAILS  
 TRAFFIC CONTROL SYSTEM  
 FOR DETOUR SIGN INSTALLATION  
 ALONG DESIGNATED DETOUR ROUTE  
 SHEET 1 OF 2  
 NO SCALE**

**THD-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DT M  
 DENIS KATAYAMA  
 FUNCTIONAL SUPERVISOR  
 CHECKED BY  
 JOCELYN C CHIANG  
 REVISOR BY  
 ALBERT K YU  
 DATE  
 3/12  
 JC

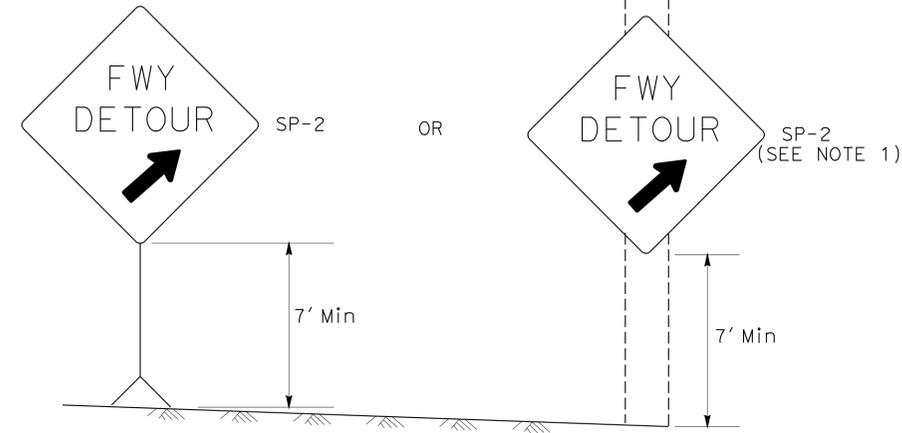
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*R.M. Mishreki* 1-30-13  
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 4-02-13  
 PLANS APPROVAL DATE

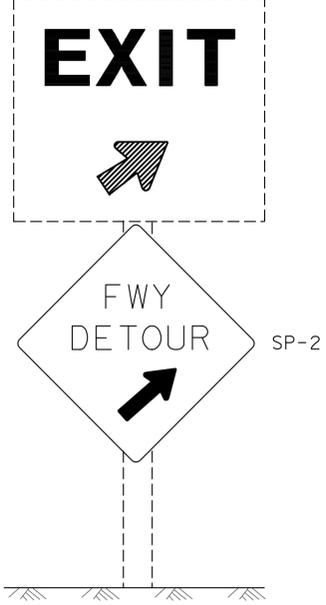
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 CIVIL  
 STATE OF CALIFORNIA



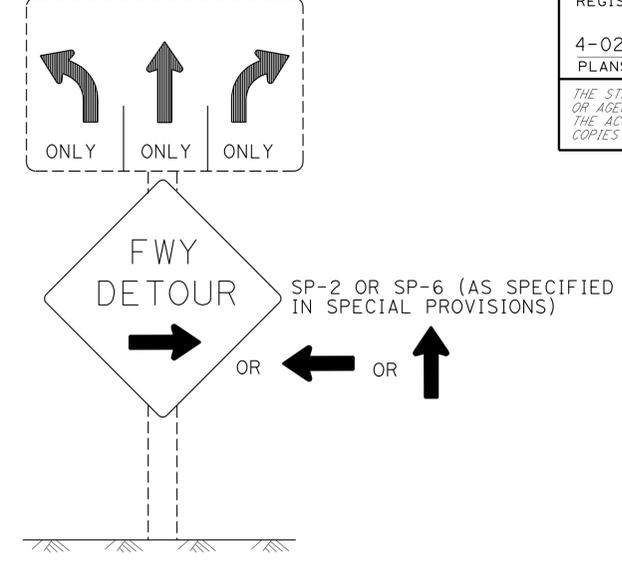
DETAIL A (SEE NOTE 3)

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

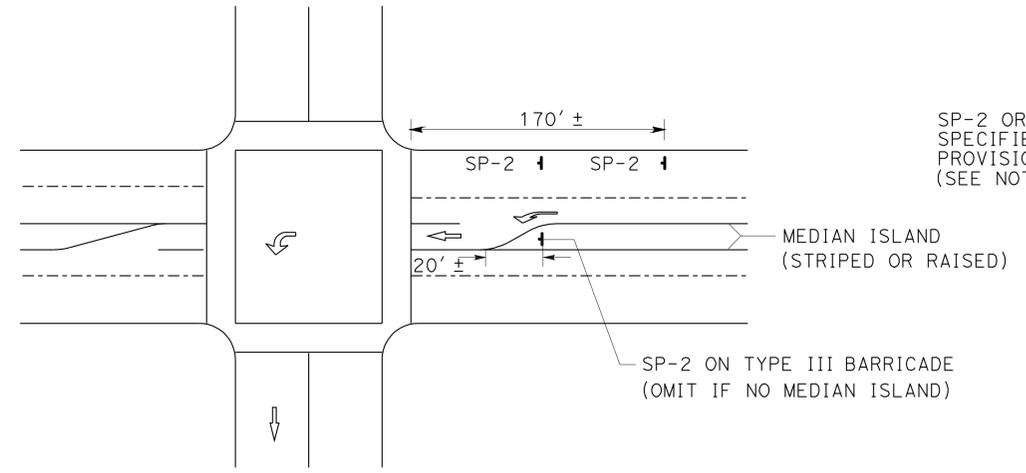


DETAIL B (SEE NOTE 3)

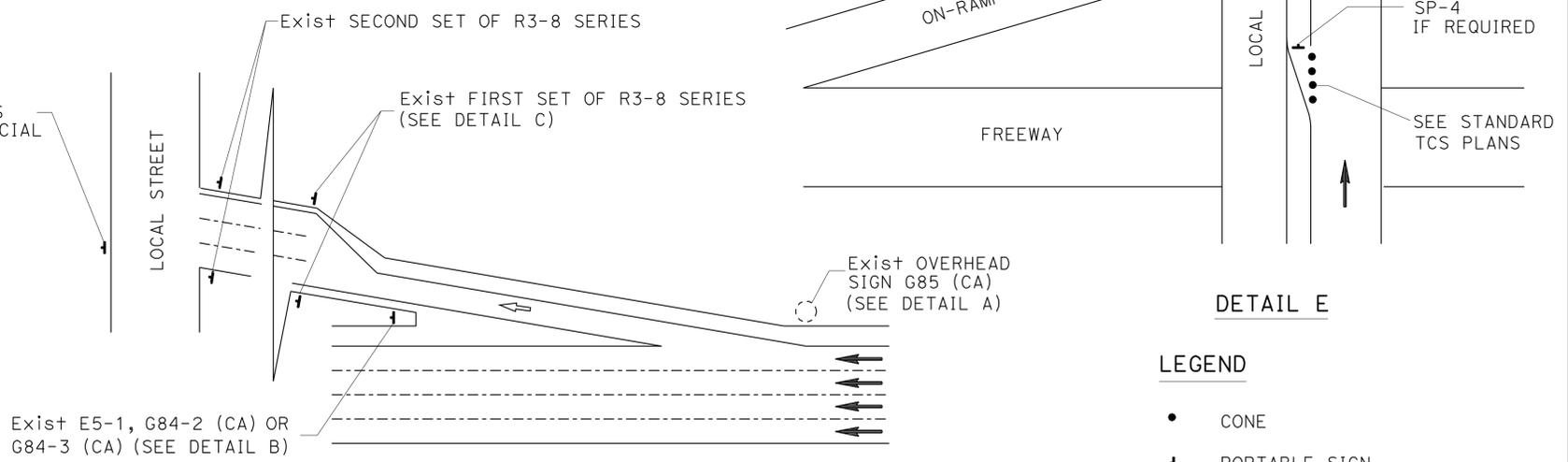
Exist R3-8 SERIES



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



DETAIL D



DETAIL E

- LEGEND**
- CONE
  - ↑ PORTABLE SIGN
  - DIRECTION OF TRAVEL
  - ⇨ DETOUR DIRECTION
  - EXISTING OVERHEAD SIGN

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

**SIGN CODE LEGEND**

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-4**

- NOTES: SIGN SP-2**
- 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.
  - OMIT DETAILS A AND B FOR FULL FREEWAY CLOSURES.
  - 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.
  - 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.
  - EXCEPT FOR DETAILS A & B, OMIT SP-2 SIGNS IF RAMP HAS MANDATORY SINGLE MOVE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DT  
 FUNCTIONAL SUPERVISOR DENIS KATAYAMA  
 CHECKED BY  
 CALCULATED/DESIGNED BY  
 ALBERT K YU  
 REVISOR BY JOCELYN C CHIANG  
 DATE 3/12  
 JC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	13	48

*R.M. Mishreki* 1-30-13  
 REGISTERED CIVIL ENGINEER DATE  
 4-02-13  
 PLANS APPROVAL DATE

R.M. MISHREKI  
 No. C68484  
 Exp. 9-30-13  
 CIVIL

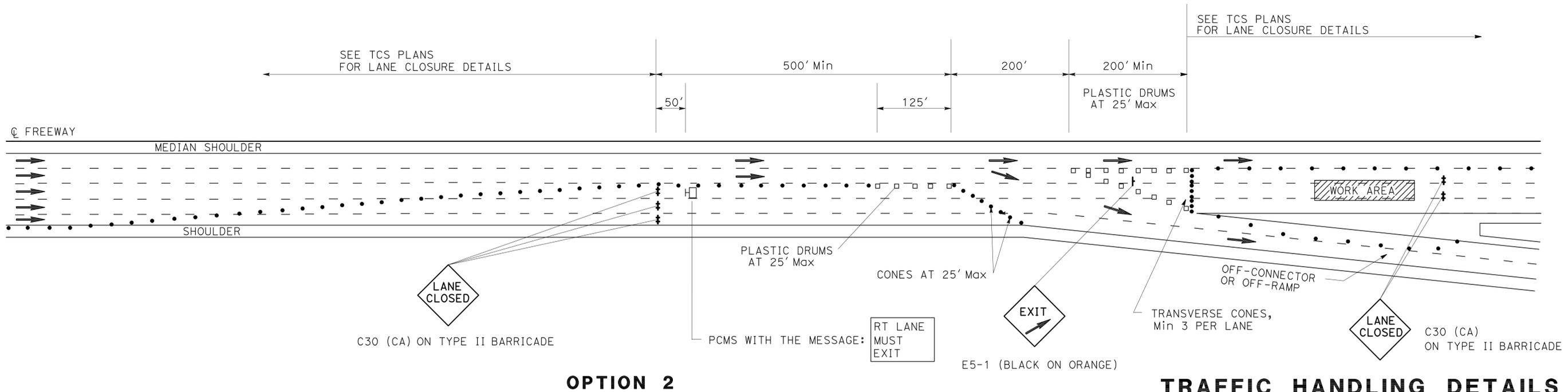
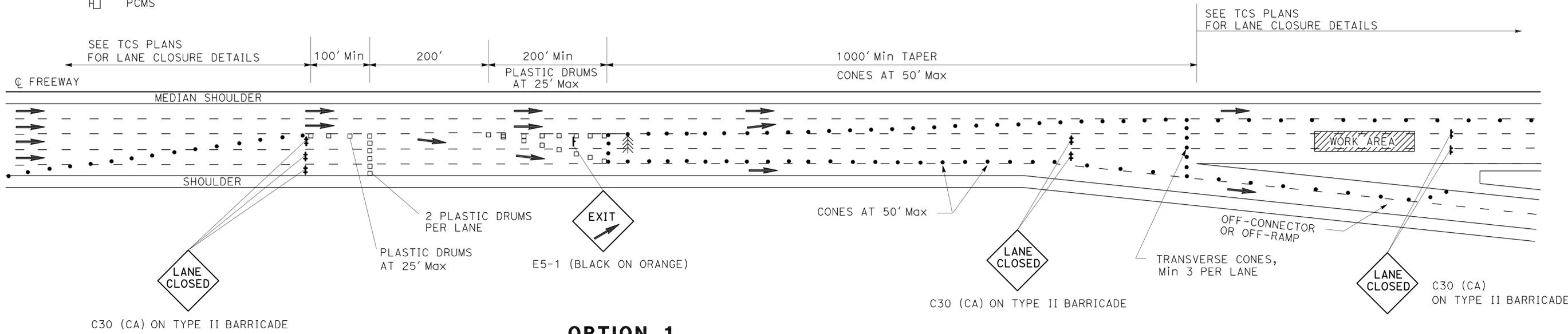
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**LEGEND**

- CONE
- TRAFFIC PLASTIC DRUM
- ⚡ FLASHING ARROW SIGN
- ⊥ PORTABLE SIGN
- ➔ DIRECTION OF TRAVEL
- ⊞ PCMS

**ABBREVIATIONS**

- (CA) CALIFORNIA CODE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN



**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR SLIP-RAMP AT**  
**OFF-CONNECTOR OR OFF-RAMP**

NO SCALE

**THD-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DTM

Caltrans

FUNCTIONAL SUPERVISOR DENIS KATAYAMA

CHECKED BY JOCELYN C CHIANG

DESIGNED BY ALBERT K YU

REVISOR DATE REVISED JC 3/12



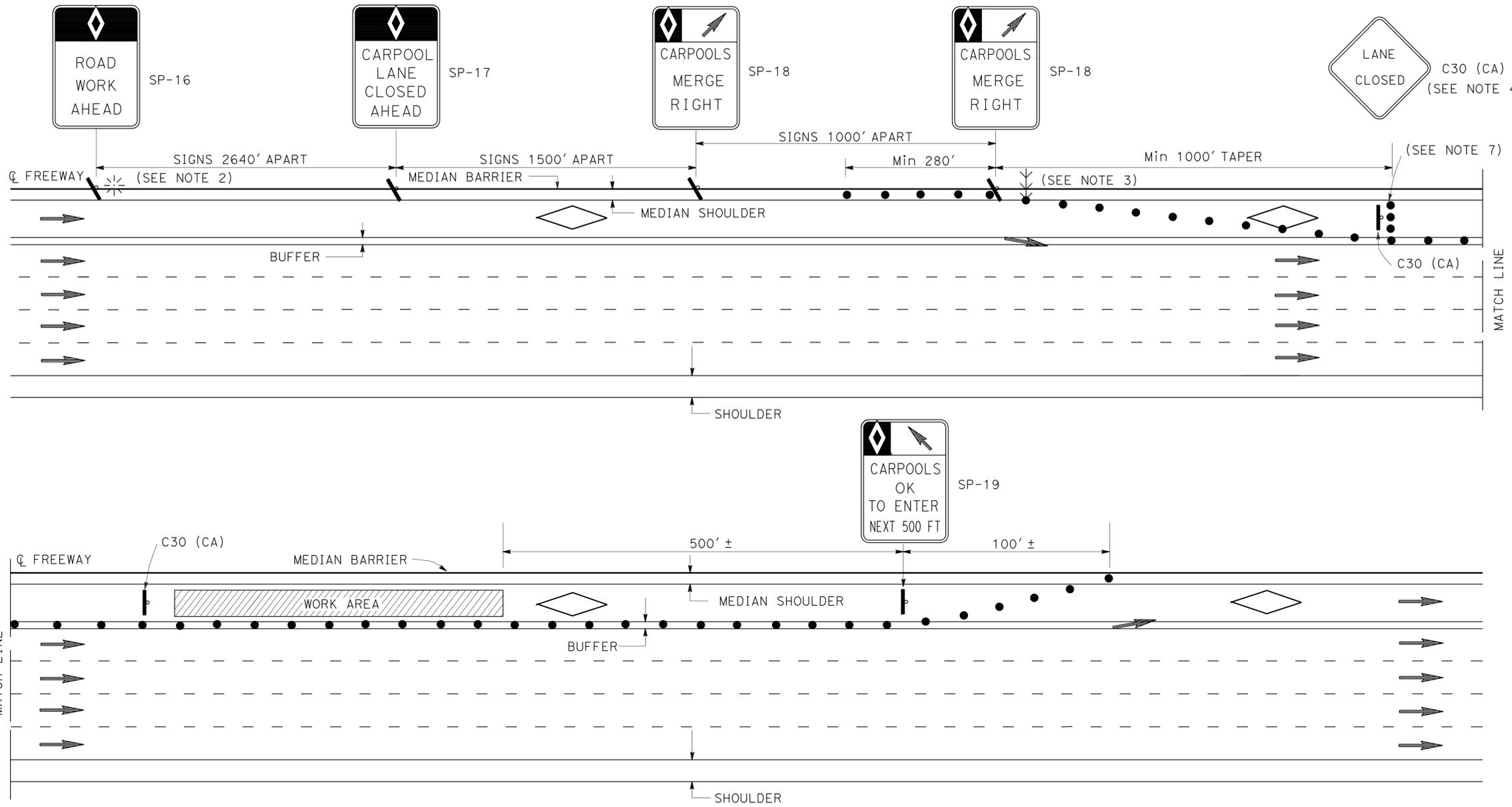


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	16	48

*R.M. Mishreki* 1-30-13  
 REGISTERED CIVIL ENGINEER DATE  
 4-02-13  
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER  
**R.M. MISHREKI**  
 No. C68484  
 Exp. 9-30-13  
 CIVIL  
 STATE OF CALIFORNIA



- 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-8**

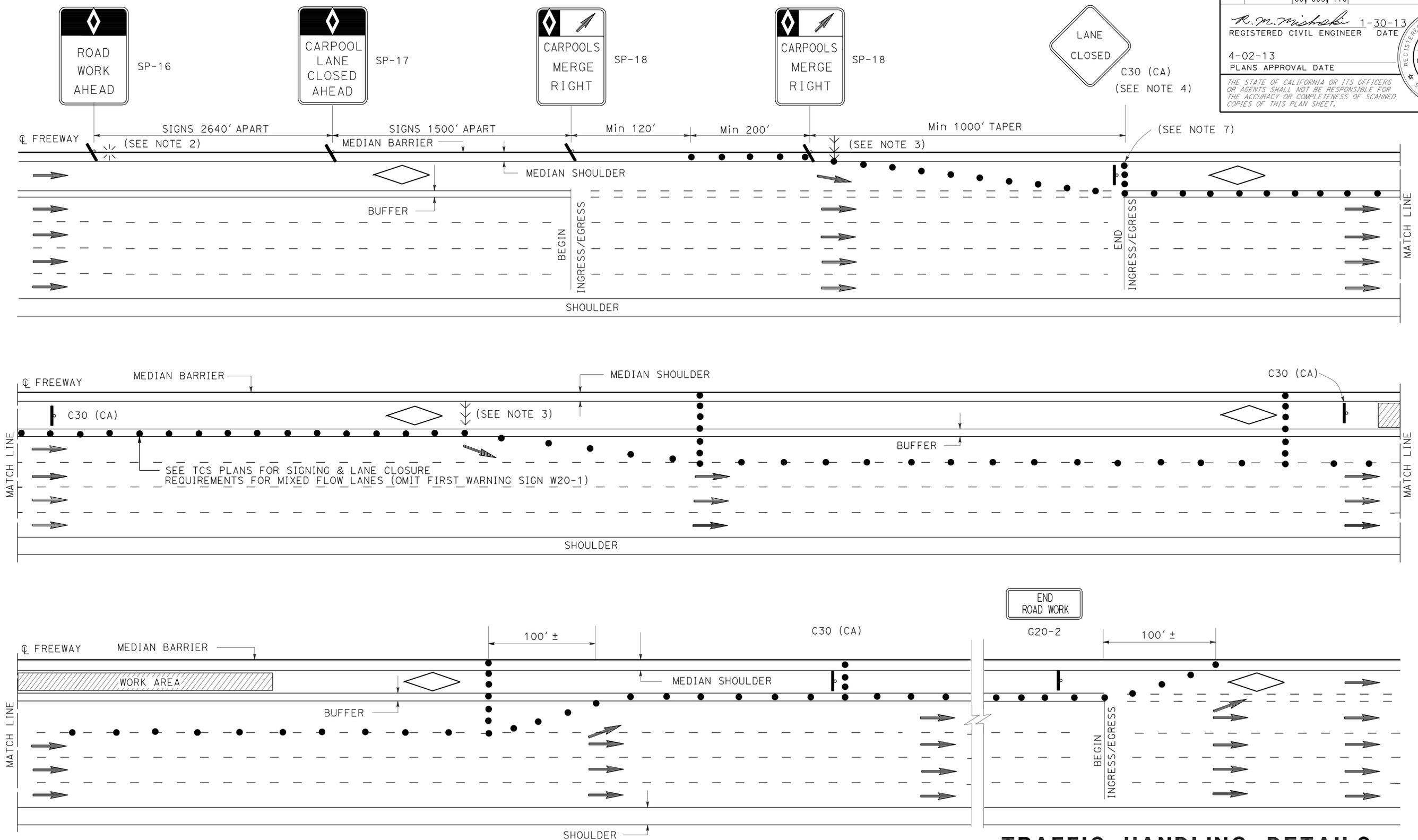
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: DENIS KATAYAMA  
 CHECKED BY: JOCELYN C CHIANG  
 REVISIONS: 3/12  
 DESIGNED BY: ALBERT K YU  
 DATE: 3/12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	17	48

*R.M. Mishreki* 1-30-13  
 REGISTERED CIVIL ENGINEER DATE  
 4-02-13  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
**R.M. MISHREKI**  
 No. C68484  
 Exp. 9-30-13  
 CIVIL  
 STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTM  
 FUNCTIONAL SUPERVISOR DENIS KATAYAMA  
 CHECKED BY JOCELYN C CHIANG  
 REVISIONS BY ALBERT K YU  
 DATE REVISED 3/12  
 JC



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

**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR HIGH OCCUPANCY**  
**VEHICLE LANES AND ADJACENT FREEWAY LANES**  
**BETWEEN INGRESS/EGRESS AREAS**  
**CASE II**  
 NO SCALE  
**THD-9**

LAST REVISION DATE PLOTTED => 28-MAR-2013  
 04-02-13 TIME PLOTTED => 2:3:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	18	48

*R.M. Mishreki* 1-30-13  
 REGISTERED CIVIL ENGINEER DATE  
 4-02-13  
 PLANS APPROVAL DATE

R.M. MISHREKI  
 No. C68484  
 Exp. 9-30-13  
 CIVIL  
 STATE OF CALIFORNIA

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

**NOTES:**

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

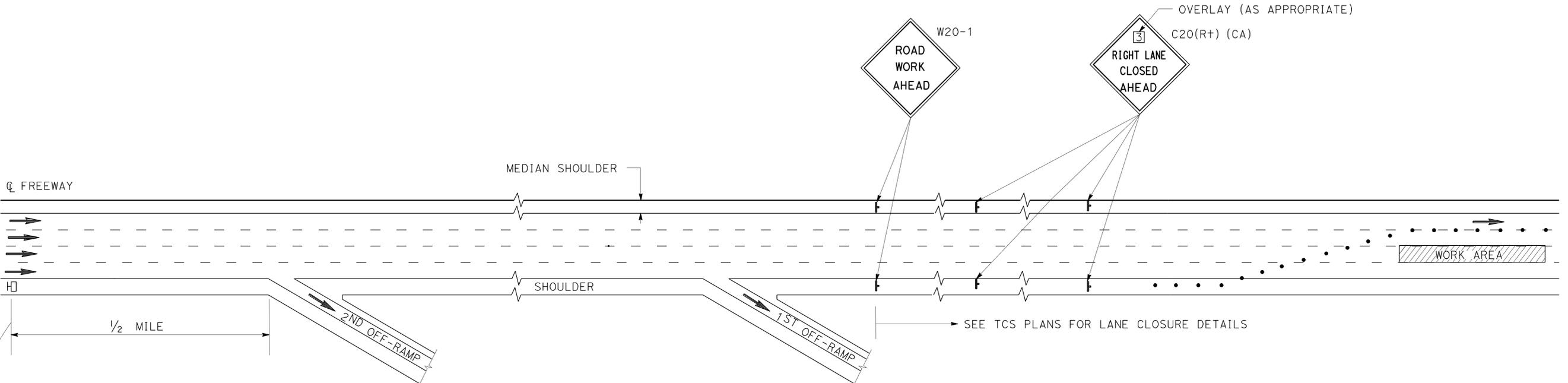
**ABBREVIATIONS**

PCMS PORTABLE CHANGEABLE MESSAGE SIGN  
 (CA) CALIFORNIA CODE

**LEGEND**

- CONE
- ⊥ PORTABLE SIGN
- ➔ DIRECTION OF TRAVEL
- ☐ PCMS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTIC  
 FUNCTIONAL SUPERVISOR DENIS KATAYAMA  
 CHECKED BY JOCELYN C CHIANG  
 REVISIONS BY ALBERT K YU  
 DATE 3/12



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

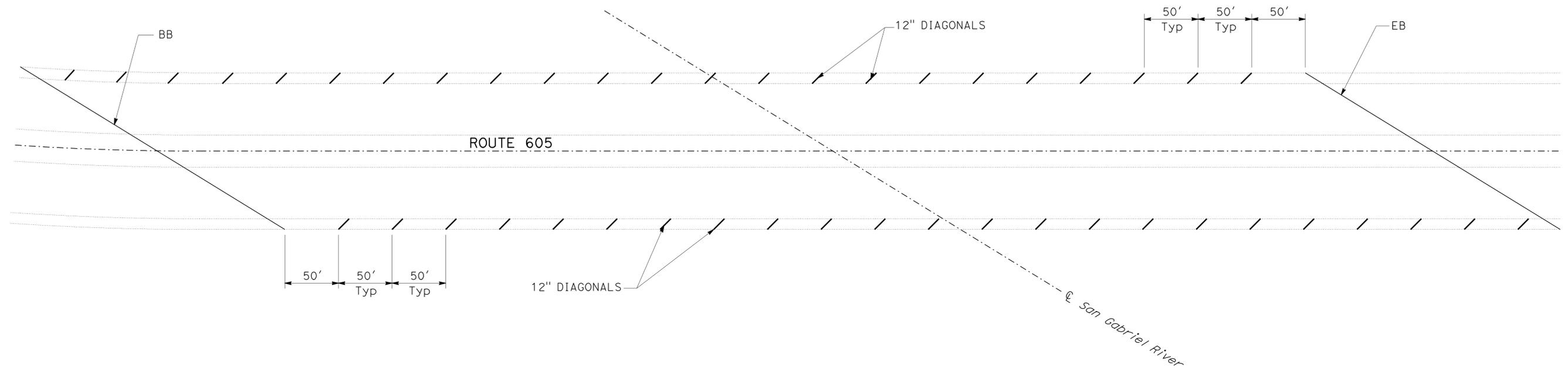
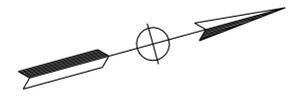
**WORDING FORMAT FOR PCMS MESSAGE**

**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR CONCRETE PAVEMENT AND**  
**APPROACH SLAB REPLACEMENT**  
 NO SCALE

**THD-10**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	19	48
			3-26-13		
REGISTERED CIVIL ENGINEER			DATE		
4-02-13			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>					

**NOTE:**  
1. DIAGONALS ARE 12" WIDE.



**PAVEMENT MARKINGS FOR SAN GABRIEL RIVER**  
Br No. 53-2032L/R

**PAVEMENT DELINEATION PLAN**  
NO SCALE

**PD-1**

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

FUNCTIONAL SUPERVISOR  
LARRY WIERING

CALCULATED/DESIGNED BY  
CHECKED BY

VINCENT PANG  
LARRY WIERING

REVISED BY  
DATE REVISED

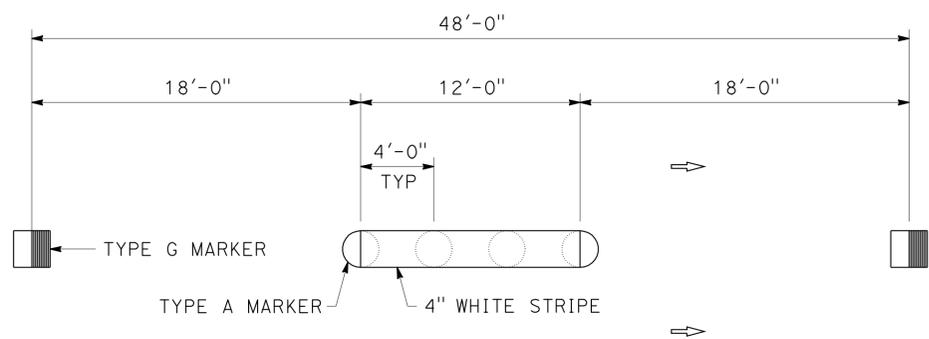
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	20	48
			3-26-13		
REGISTERED CIVIL ENGINEER			DATE		
4-02-13			PLANS APPROVAL DATE		
					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**NOTES:**

- SEE PAVEMENT DELINEATION QUANTITIES FOR LOCATION AND TYPES OF TRAFFIC STRIPES AND PAVEMENT MARKINGS.
- APPLY DIAGONALS ON RAMP SHOULDERS AT 25' INTERVALS AND ON MAINLINE SHOULDERS AT 50' INTERVALS.

**LEGEND:**

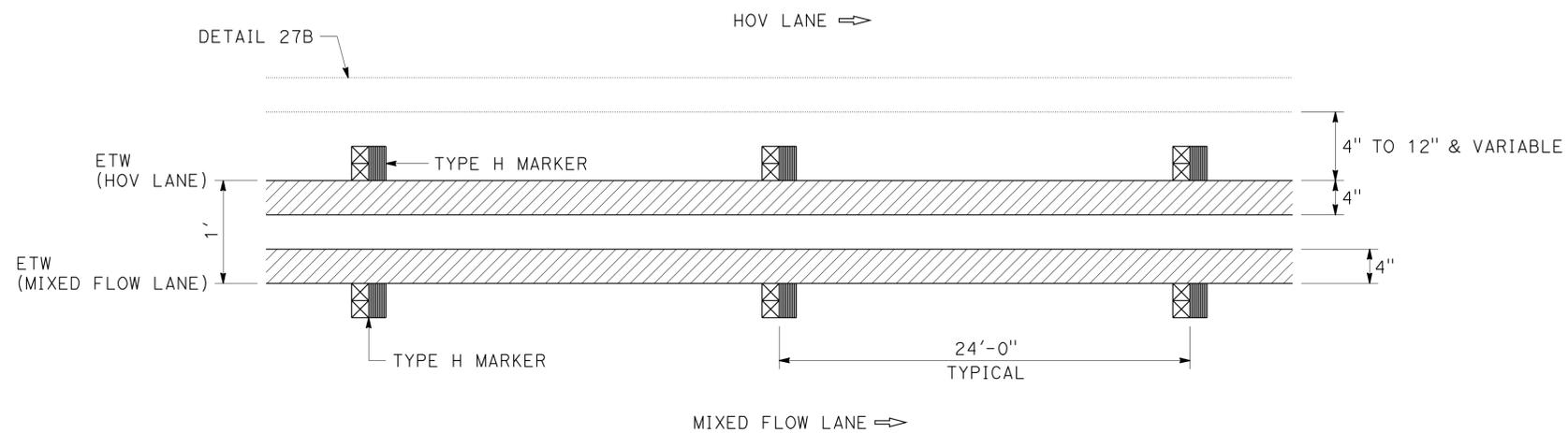
-  = DIRECTION OF TRAFFIC
- HOV = HIGH OCCUPANCY VEHICLE
-  = 4" WHITE THERMOPLASTIC STRIPE
-  = 4" YELLOW THERMOPLASTIC STRIPE
-  = TYPE H ONE-WAY YELLOW RETROREFLECTIVE MARKER



**NOTE:**

- APPLY A 4" WIDE THERMOPLASTIC TRAFFIC STRIPE ON TOP OF TYPE A MARKERS

**DETAIL 13 (MODIFIED)**



**DETAIL M-9 - HOV BUFFER STRIPING**

**PAVEMENT DELINEATION DETAILS**  
NO SCALE

**PDD-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR: LARRY WIERING  
 CALCULATED/DESIGNED BY: LARRY WIERING  
 CHECKED BY:  
 VINCENT PANG  
 LARRY WIERING  
 REVISOR BY: DATE  
 DATE:

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR: LARRY WIERING  
 CALCULATED/DESIGNED BY: CHECKED BY:  
 VINCENT PANG LARRY WIERING  
 REVISED BY: DATE REVISED:  
 x x x x x x x x x x

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	21	48

REGISTERED CIVIL ENGINEER DATE: 3-26-13  
 4-02-13  
 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.

REMOVE PAVEMENT DELINEATION QUANTITIES							
ROUTE	DIRECTION	POST MILE	BRIDGE NAME	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE PAVEMENT MARKER	
				LF	LF	EA	SQFT
NB/SB	10	44.19	DUDLEY St OC	540	540	48	
NB	57	R7.30	SAN JOSE WASH FLOOD CONTROL CHANNEL	449	299	73	
		R10.53	CIENEGA Ave UC	284	162	81	24
		R11.65	N57-W210/W210-S57 CONNECTOR	535	151	40	
	605	R19.39	RIVERGRADE OH	294	294	8	
		R20.09	SOUTH CONNECTOR UC	168	96	36	
710	22.66	SAN GABRIEL RIVER	2,083	1,190	404	168	
SB	57	R7.30	SAN JOSE WASH FLOOD CONTROL CHANNEL	449	299	73	
		R7.72	S57-E10 CONNECTOR OC	412	206	30	
		R10.53	CIENEGA Ave UC	284	162	85	14
	605	R20.09	SOUTH CONNECTOR UC	238	136	58	51
		22.66	SAN GABRIEL RIVER	2,083	1,190	326	
710	26.47	ROUTE 710/10 SEPARATION	135	90	24		
EB	10	45.28	WHITE Ave UC	303	330	56	
		47.74	INDIAN HILL Blvd UC	231	252	46	
	60	R3.25	ROUTE 60/710 SEPARATION	394	225	81	
R6.30		MARKLAND Dr UC	233	133	52		
WB	10	S0.55	OUTER W CONNECTOR OC (W10-S5)	359	287	38	
		30.84	SAN GABRIEL RIVER	683	758	233	84
		42.45	W10-S57 CONNECTOR OC	75	60	14	
	60	45.28	WHITE Ave UC	303	330	56	
		47.74	INDIAN HILL Blvd UC	231	252	43	11
		R3.25	ROUTE 60/710 SEPARATION	394	225	81	
	R6.30	MARKLAND Dr UC	233	133	52		
<b>TOTAL</b>				<b>11,499</b>	<b>7,800</b>	<b>2,067</b>	<b>352</b>

PAVEMENT DELINEATION QUANTITIES								
ROUTE	DIRECTION	POST MILE	BRIDGE NAME	THERMOPLASTIC PAVEMENT MARKING				
				DIAMOND	CAR	POOL	TYPE IV ARROW	12" DIAGONALS
				SQFT	SQFT	SQFT	SQFT	SQFT
NB	57	R10.53	CIENEGA Ave UC					24
	605	22.66	SAN GABRIEL RIVER					326
SB	605	R10.53	CIENEGA Ave UC					14
		R20.09	SOUTH CONNECTOR UC	11	17	23		
WB	10	30.84	SAN GABRIEL RIVER				84	
		47.74	INDIAN HILL Blvd UC	11				
<b>SUBTOTAL</b>				<b>22</b>	<b>17</b>	<b>23</b>	<b>84</b>	<b>689</b>
<b>TOTAL</b>				<b>835</b>				

**PAVEMENT DELINEATION QUANTITIES**

**PDQ-1**

LAST REVISION | DATE PLOTTED => 28-MAR-2013  
 04-02-13 | TIME PLOTTED => 2:3:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5, 10, 57, 60, 605, 710	Var	22	48

REGISTERED CIVIL ENGINEER DATE 3-26-13  
 4-02-13  
 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.

PAVEMENT DELINEATION QUANTITIES																			
DIRECTION	ROUTE	POSTMILE	BRIDGE NAME	THERMOPLASTIC TRAFFIC STRIPE						PAVEMENT MARKER									
				DETAIL						NON-REFLECTIVE	RETROREFLECTIVE								
				13 (Mod)	22	25	25A	27B	M9		36	37	13 (Mod)	36	M9	25	25A		
				4" WHITE (BROKEN 36-12)	4" SOLID DOUBLE YELLOW	4" SOLID YELLOW	4" SOLID YELLOW	4" SOLID WHITE	4" SOLID DOUBLE YELLOW		8" SOLID WHITE	8" WHITE (BROKEN 12-3)							
				LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	
TYPE																			
				A		C		D		G		H							
				EA		EA		EA		EA		EA		EA					
NB/SB	10	44.19	DUDLEY St OC		540									48					
NB	57	R7.30	SAN JOSE WASH FLOOD CONTROL CHANNEL	598		299		299				52		15			8		
		R10.53	CIENEGA Ave UC	486		162		162		130	95	42		14			5		
		R11.65	N57-W210/W210-S57 CONNECTOR	302		151		151				28		9			5		
	605	R19.39	RIVERGRADE OH				294	294										13	
		R20.09	SOUTH CONNECTOR UC	288		96		96				24		9			3		
		22.66	SAN GABRIEL RIVER	3,570		1,190		1,190				300		78			26		
710	23.19	ROUTE 710/5 SEPARATION	262				40				24		20						
SB	57	R7.30	SAN JOSE WASH FLOOD CONTROL CHANNEL	598		299		299				52		15			8		
		R7.72	S57-E10 CONNECTOR OC	206		206		206				18		6			6		
		R10.53	CIENEGA Ave UC	486		162		162				42	10	14	8		5		
	605	R20.09	SOUTH CONNECTOR UC	408		136		136				34		12			4		
		22.66	SAN GABRIEL RIVER	3,570		1,190		1,190				300		78					
710	26.47	ROUTE 710/10 SEPARATION	180		90		90				15		6			3			
EB	10	45.28	WHITE Ave UC	330		110		110	220		28		10		12	4			
		47.74	INDIAN HILL Blvd UC	252		84		84	168		21		9		10	3			
	60	R3.25	ROUTE 60/710 SEPARATION	675		225		225			57		18			6			
WB	10	R6.30	MARKLAND Dr UC	399		133		133			36		12			4			
		S0.55	OUTER W CONNECTOR OC (W10-S5)	287		287		287				24		7		7			
		30.84	SAN GABRIEL RIVER	1,516		758		758				129		34			17		
	60	42.45	W10-S57 CONNECTOR OC	60		60		60				6		3			3		
		45.28	WHITE Ave UC	330		110		110	220		30		10		12	4			
		47.74	INDIAN HILL Blvd UC	252		84		84	168		21		9		10	3			
R3.25	ROUTE 60/710 SEPARATION	675		225		225				59		18			6				
R6.30	MARKLAND Dr UC	399		133		133				36		12			4				
SUBTOTAL				16,129	540	6,190	294	7,064	776	135	95	1,378	10	48	418	8	44	134	13
TOTAL				16,129	14,864				135	95	1,378	675							

**PAVEMENT DELINEATION QUANTITIES**

**PDQ-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE ENGINEERING

Caltrans

FUNCTIONAL SUPERVISOR: LARRY WIERING

DESIGNED BY: VINCENT PANG

CHECKED BY: LARRY WIERING

REVISOR: LARRY WIERING

DATE REVISOR: [ ]

DATE REVISION: [ ]

DATE PLOTTED: 04-02-13

TIME PLOTTED: [ ]

USERNAME => s122436

DGN FILE => 71w280nc002.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 1963

PROJECT NUMBER & PHASE 07000212301

LAST REVISION: 04-02-13

DATE PLOTTED => 28-MAR-2013

TIME PLOTTED => 2:31:18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57, 60,605,710	Var	23	48

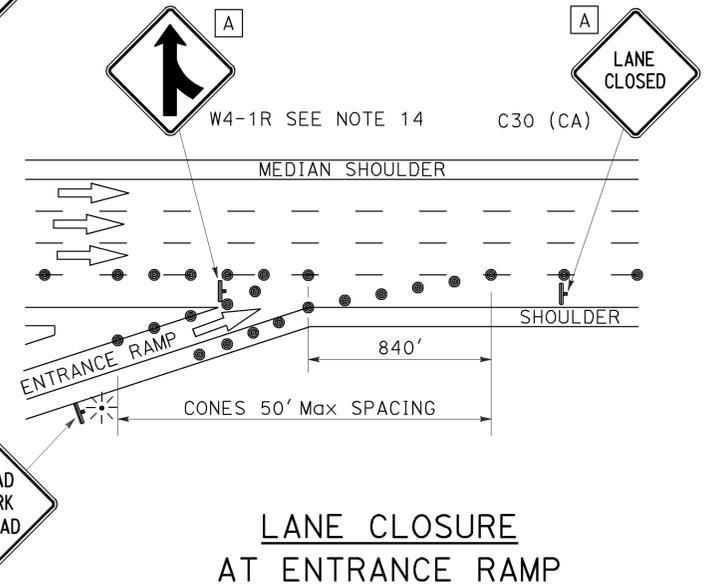
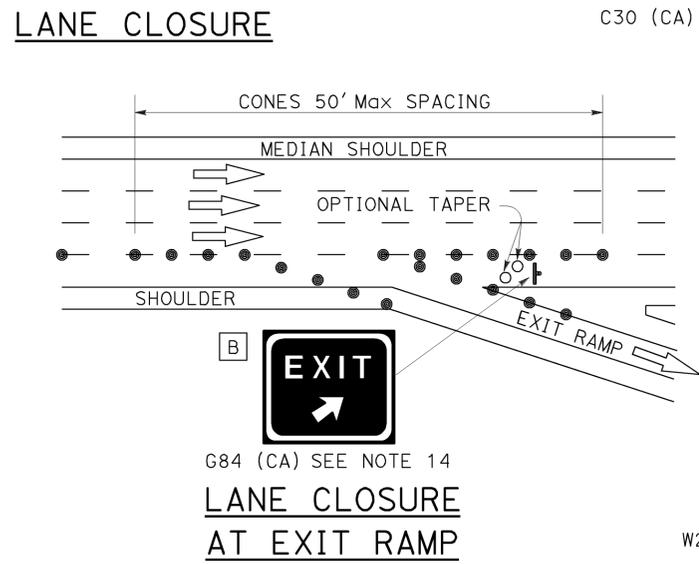
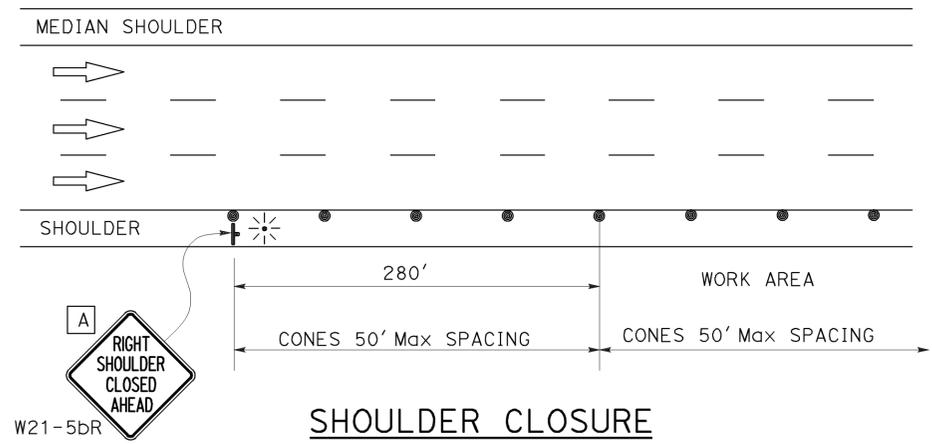
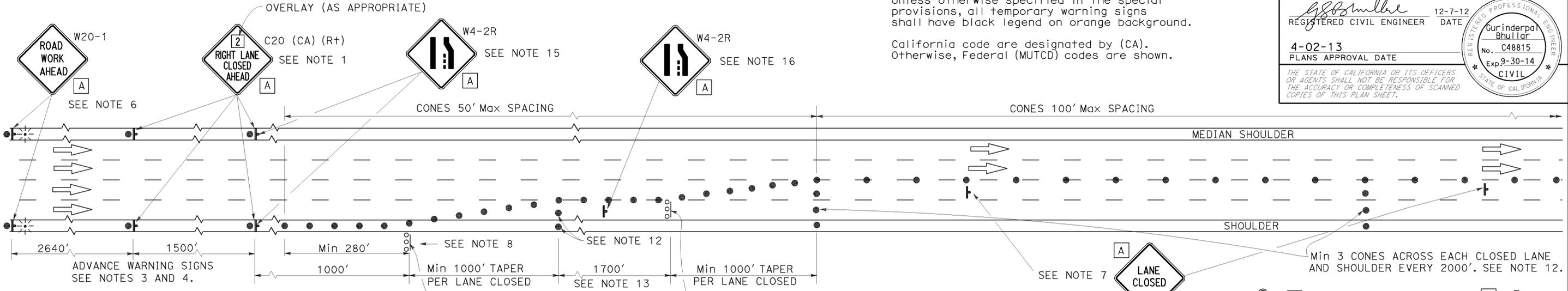
REGISTERED CIVIL ENGINEER	DATE
<i>Gurinderpal Bhullar</i>	12-7-12
PLANS APPROVAL DATE	
4-02-13	

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

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

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



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

**SIGN PANEL SIZE (Min)**

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

**LEGEND**

●	TRAFFIC CONE
○	TRAFFIC CONE (OPTIONAL TAPER)
↑	TEMPORARY SIGN
⚡	FLASHING ARROW SIGN (FAS)
⊞	FAS SUPPORT OR TRAILER
⚡	PORTABLE FLASHING BEACON

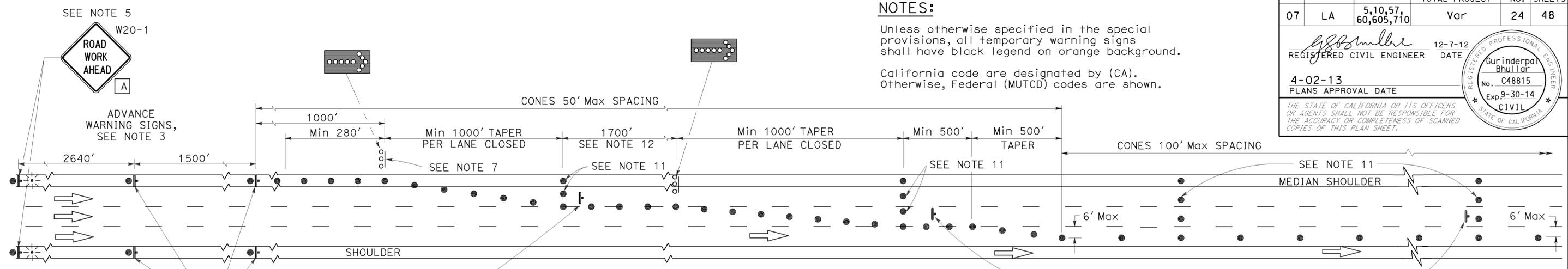
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 FREEWAYS AND EXPRESSWAYS**  
 NO SCALE  
**TCS-1**

REVISOR: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CALCULATED/DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 FUNCTIONAL SUPERVISOR: \_\_\_\_\_  
 DEPARTMENT OF TRANSPORTATION  
 STATE OF CALIFORNIA  
 Et Caltrans

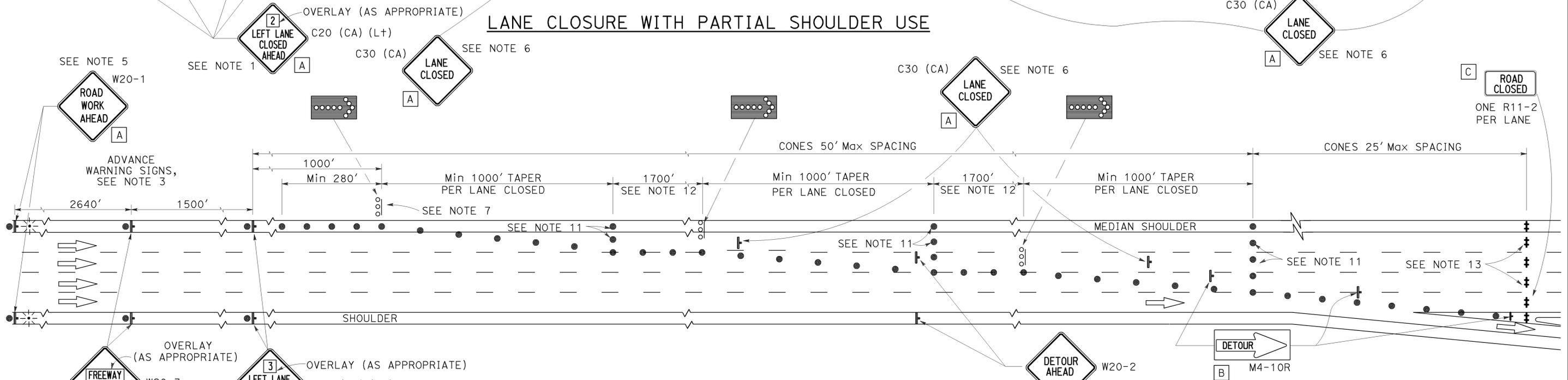
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57, 60,605,710	Var	24	48

REGISTERED CIVIL ENGINEER  
 12-7-12 DATE  
 4-02-13 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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



**LANE CLOSURE WITH PARTIAL SHOULDER USE**



**COMPLETE CLOSURE**

**NOTES:**

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details for inside lane closure except that C20 (CA) (Rt) 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 C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT \_\_\_ MILES", use a C20 (CA) sign for the first advance warning sign.
- Place a C30 (CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at 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 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- A minimum of Two Type II 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.

**LEGEND**

●	TRAFFIC CONE
⊥	TEMPORARY SIGN
⊥	BARRICADE
⊥	FLASHING ARROW SIGN (FAS)
⊥	FAS SUPPORT OR TRAILER
⊥	PORTABLE FLASHING BEACON

**SIGN PANEL SIZE (Min)**

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

**TRAFFIC CONTROL SYSTEM FOR LANE AND COMPLETE CLOSURES ON FREEWAYS AND EXPRESSWAYS**

NO SCALE

**TCS-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Et-Alttrans®  
 REVISIONS: 00-00-00 TIME PLOTTED => 09:45  
 10-00-00 DATE PLOTTED => 10-06-2012





# TYPICAL RAMP CLOSURES

## SIGN PANEL SIZE (Min)

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57, 60,605,710	Var	27	48

REGISTERED CIVIL ENGINEER  
 12-7-12 DATE  
 4-02-13 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

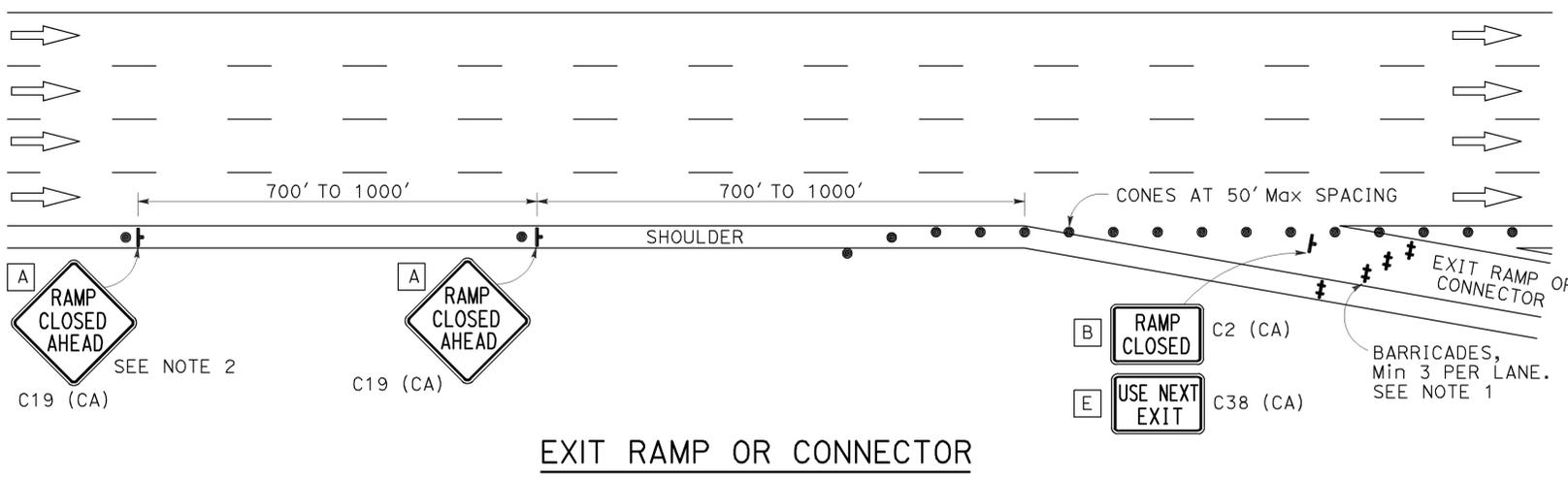
REGISTERED PROFESSIONAL ENGINEER  
 Gurinderpal Bhullar  
 No. C48815  
 Exp. 9-30-14  
 CIVIL

## LEGEND

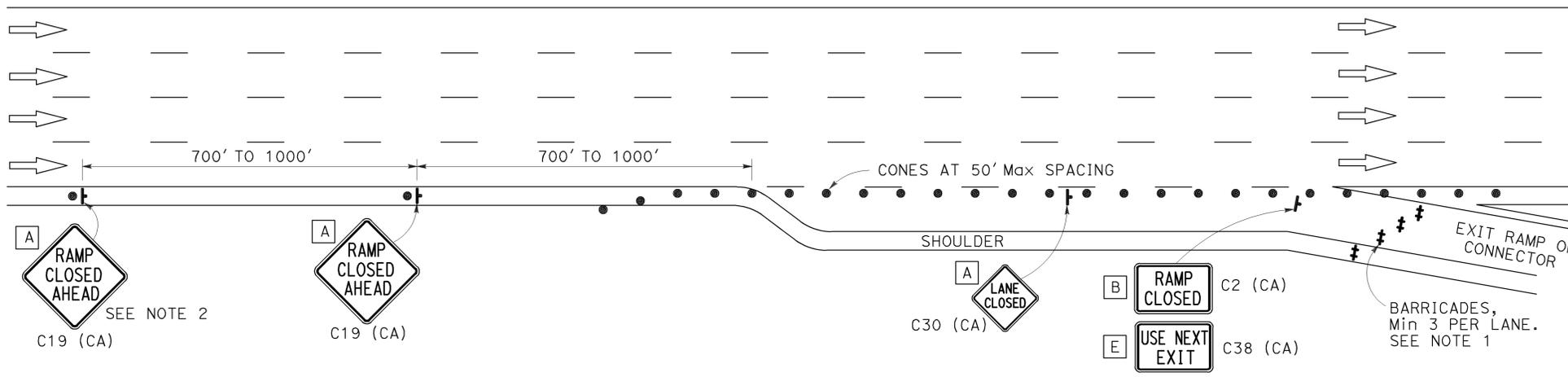
- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

## NOTES:

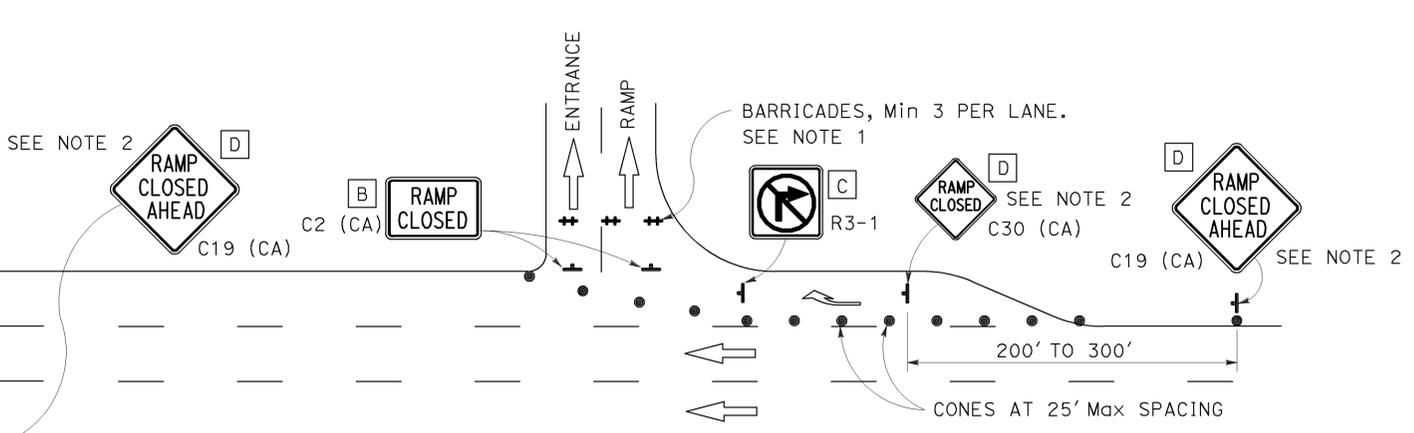
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



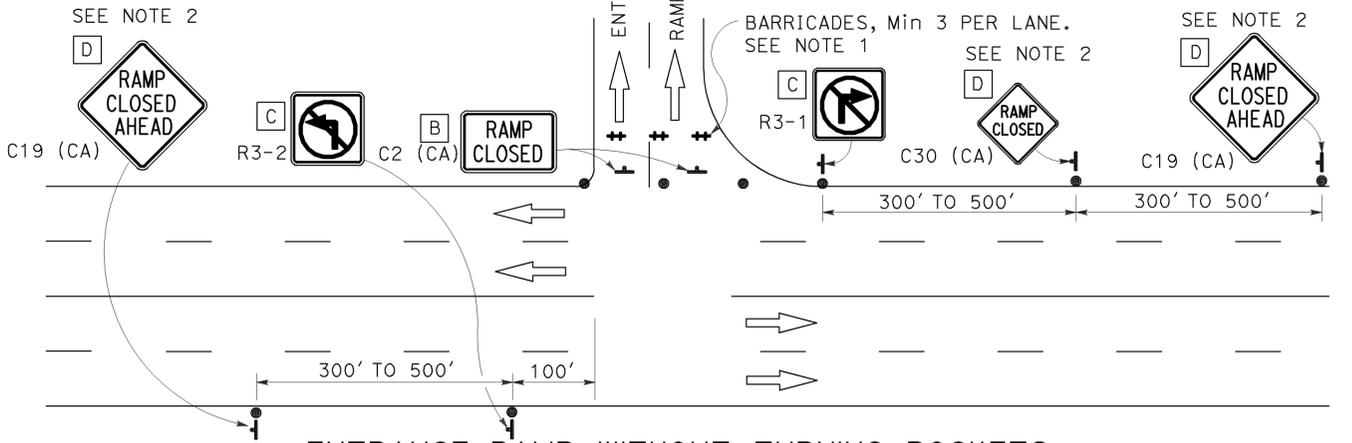
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

## NOTES:

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-5

REVISOR BY  
DATE

CALCULATED BY  
DESIGNED BY  
CHECKED BY

FUNCTIONAL SUPERVISOR

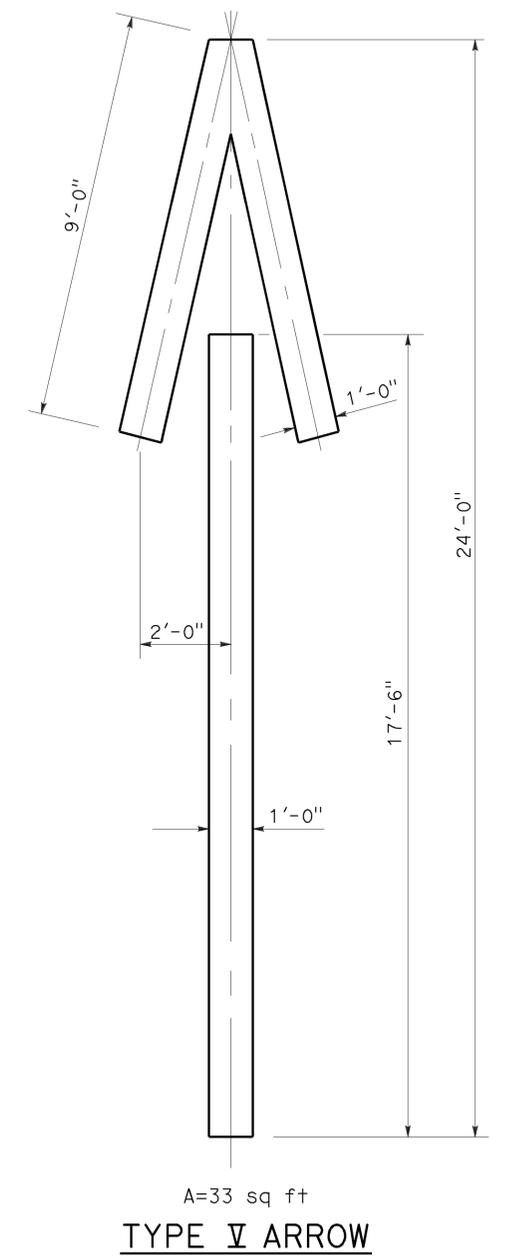
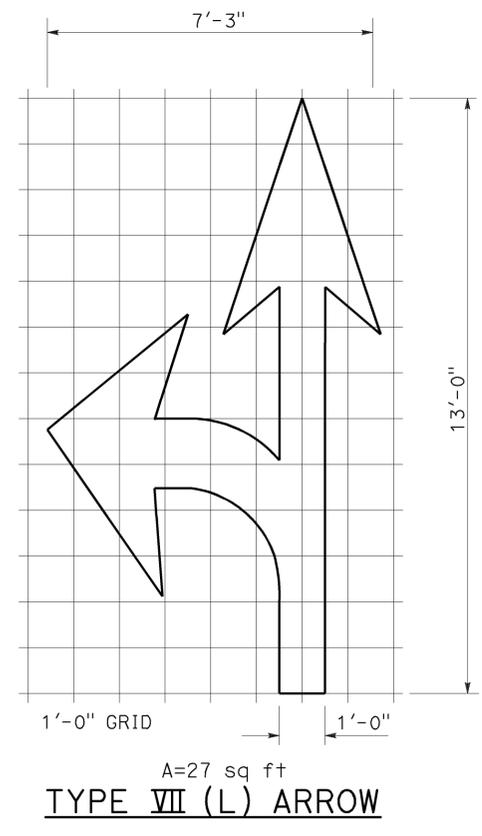
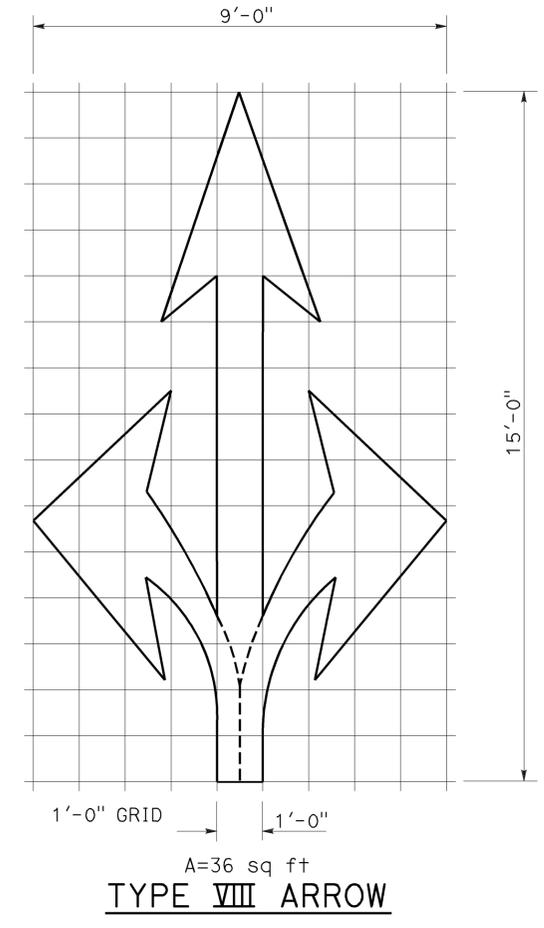
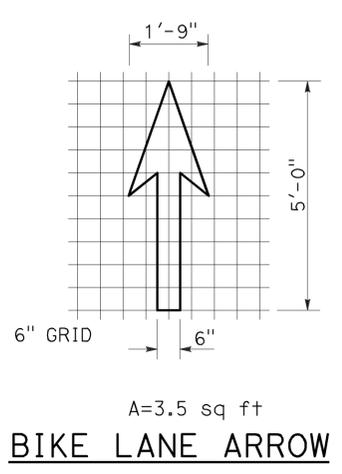
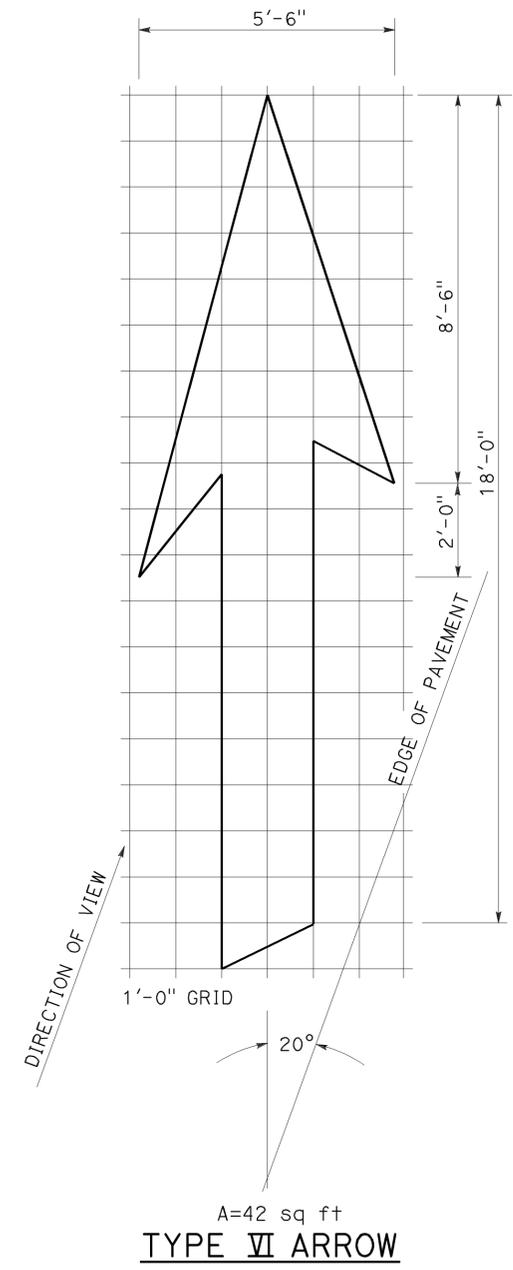
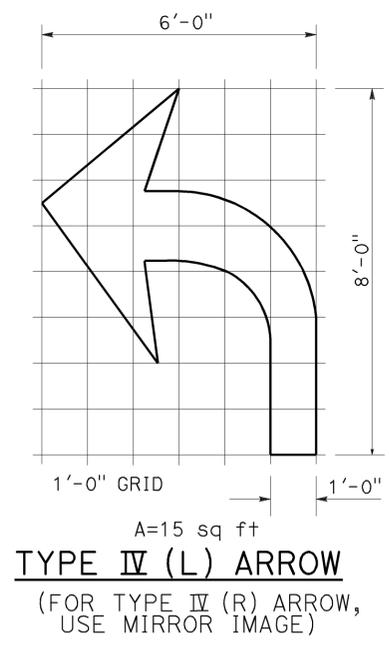
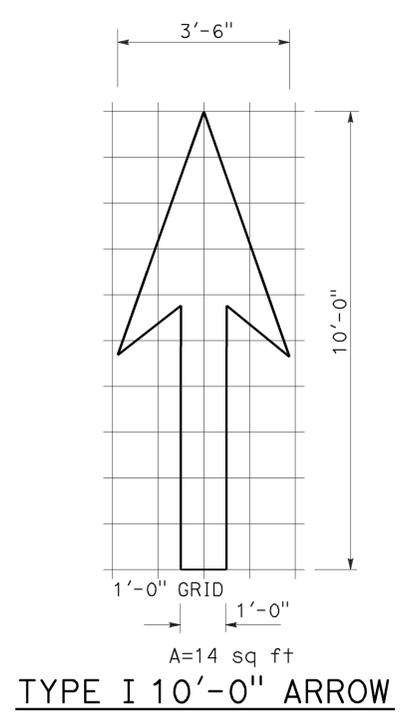
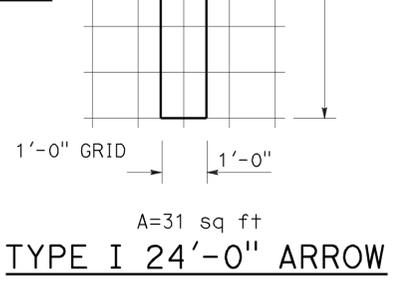
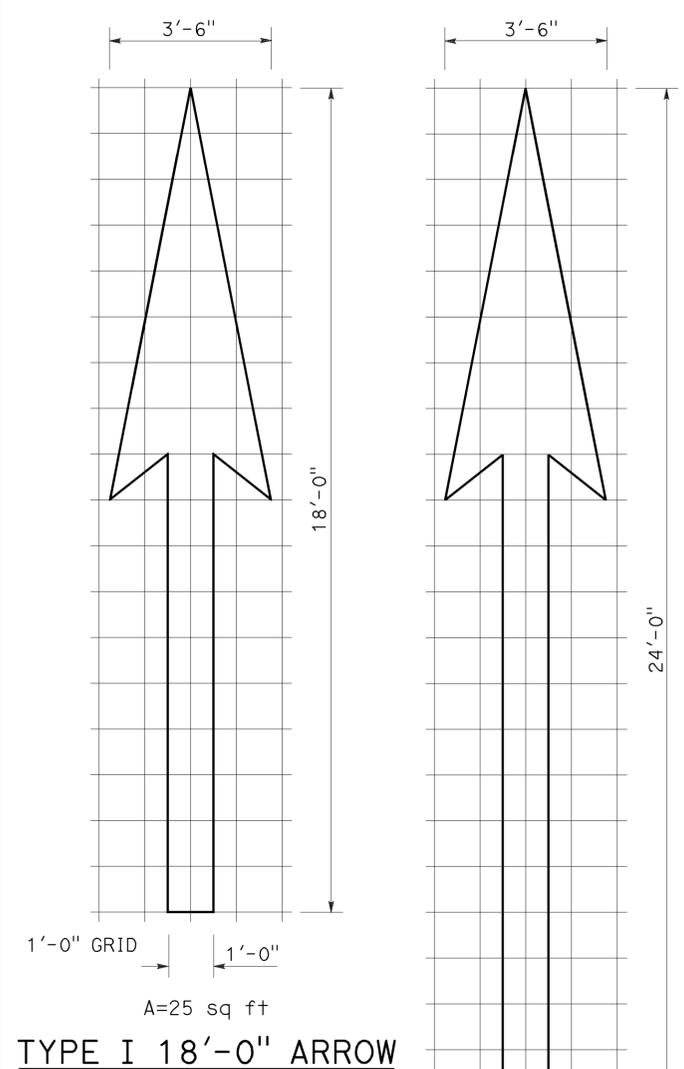
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Et Caltrans

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	28	48

Robert L. McLaughlin  
 REGISTERED CIVIL ENGINEER  
 April 20, 2012  
 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.

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

To accompany plans dated 4-02-13



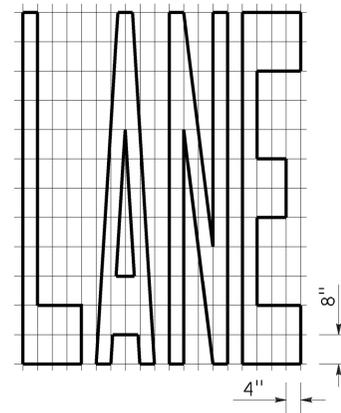
**NOTE:**  
MINOR VARIATIONS IN DIMENSIONS  
MAY BE ACCEPTED BY THE ENGINEER.

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

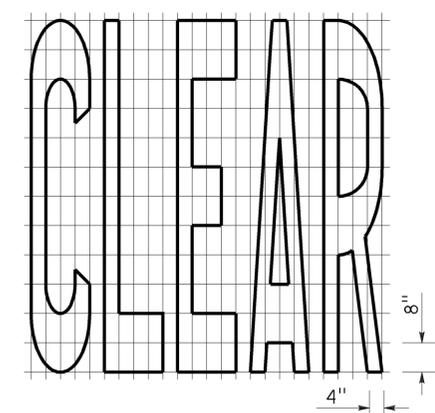
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A  
DATED MAY 1, 2006 - PAGE 9 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**2006 REVISED STANDARD PLAN RSP A24A**

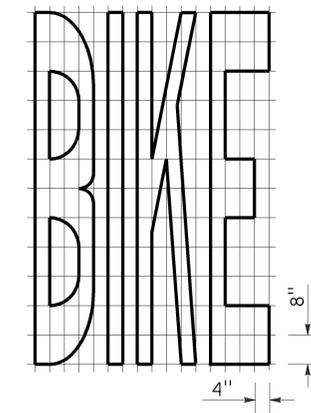
To accompany plans dated 4-02-13



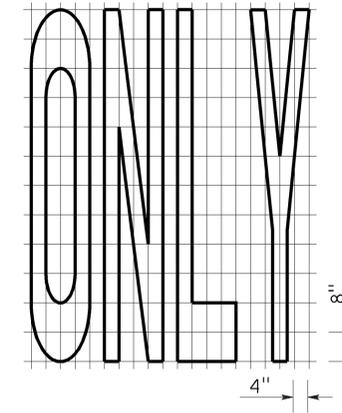
A=24 ft<sup>2</sup>



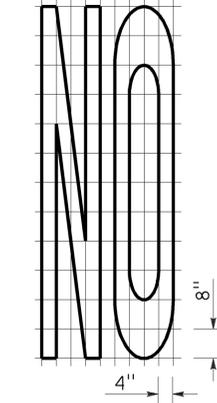
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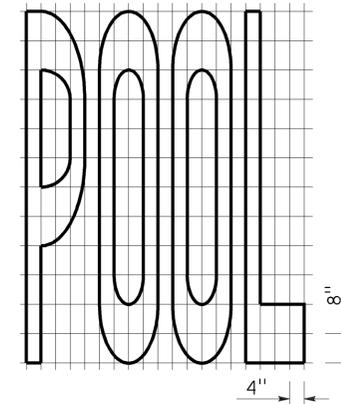
A=21 ft<sup>2</sup>



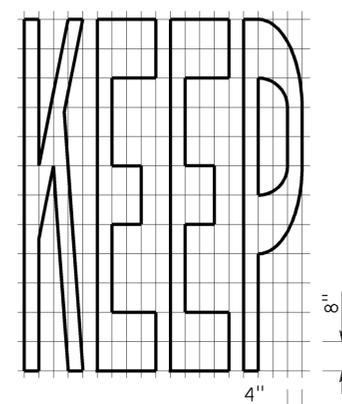
A=22 ft<sup>2</sup>



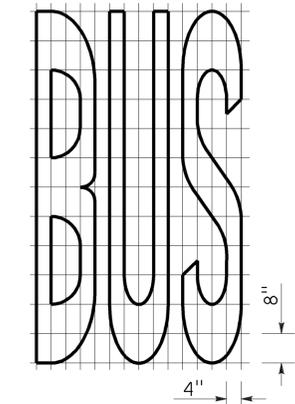
A=14 ft<sup>2</sup>



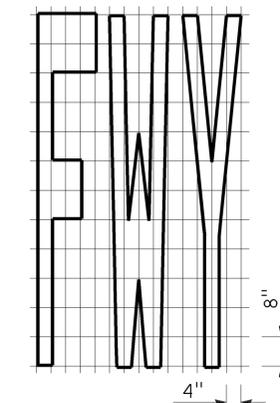
A=23 ft<sup>2</sup>



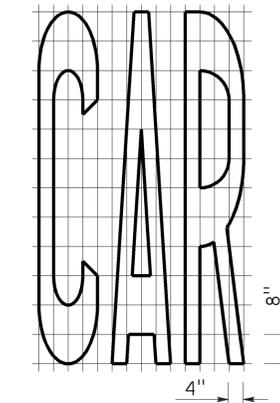
A=24 ft<sup>2</sup>



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

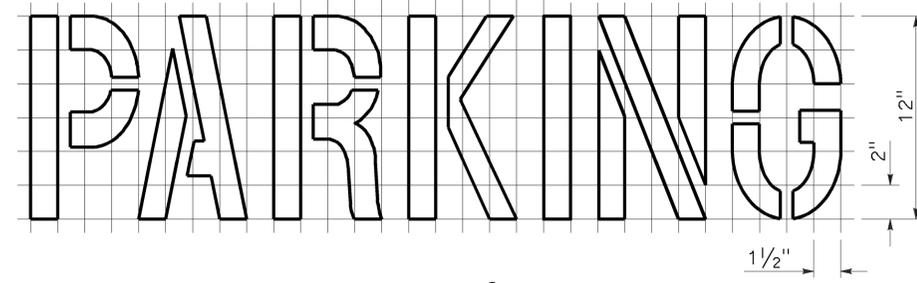
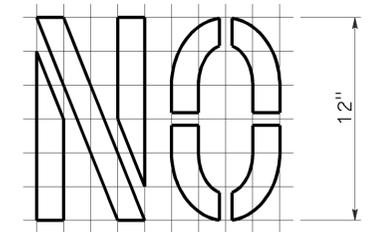


A=16 ft<sup>2</sup>

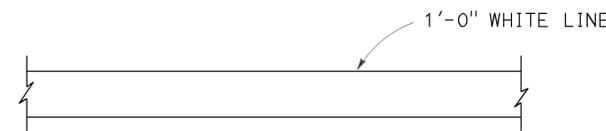


A=17 ft<sup>2</sup>

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



LIMIT LINE (STOP LINE)



DIRECTION OF TRAVEL  
YIELD LINE

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 1, 2006 - PAGE 13 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A24E

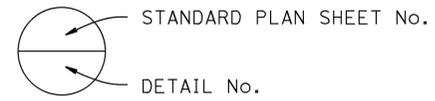
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	30	48
Edward Li REGISTERED CIVIL ENGINEER No. C56706 Exp. 06/30/13 CIVIL			01/11/13 DATE 4-02-13 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy 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	GENERAL PLAN No. 9
10	GENERAL PLAN No. 10
11	GENERAL PLAN No. 11
12	GENERAL PLAN No. 12
13	GENERAL PLAN No. 13
14	GENERAL PLAN No. 14
15	ABUTMENT DETAILS
16	MISCELLANEOUS DETAILS No. 1
17	MISCELLANEOUS DETAILS No. 2
18	CHAIN LINK RAILING DETAILS (AS-BUILT)
19	STRUCTURE APPROACH SLAB TYPE R(30D)

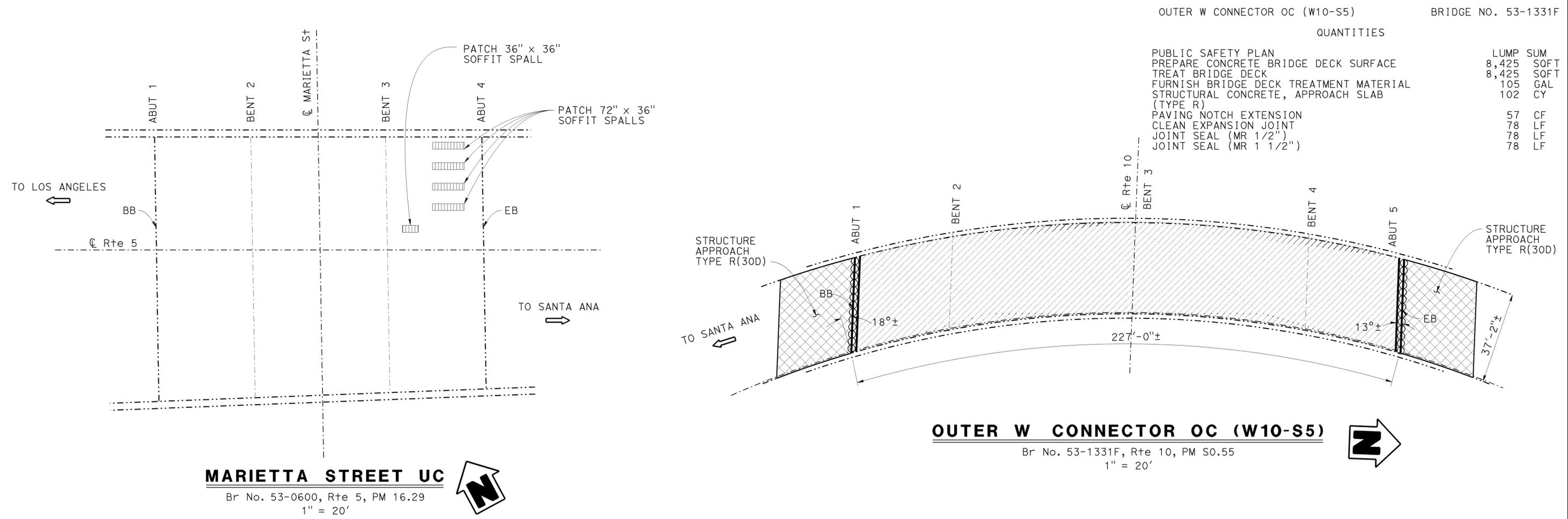
### STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



### LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- [Hatched Box] Indicates limits of prepare concrete bridge deck surface and place high molecular weight methacrylate.
- [Diagonal Line] Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch) as directed by the Engineer.
- [Cross-hatched Box] Indicates limits of remove AC roadway and construct new structure approach slabs with paving notch extension.
- [Wavy Line] Indicates location of placement of new joint seal.
- [Rectangular Pattern] Indicates patching soffit spalls, locations verified by the Engineer.

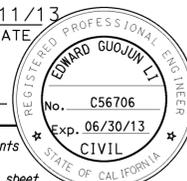


QUANTITIES	
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	8,425 SQFT
TREAT BRIDGE DECK	8,425 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	105 GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	102 CY
PAVING NOTCH EXTENSION	57 CF
CLEAN EXPANSION JOINT	78 LF
JOINT SEAL (MR 1/2")	78 LF
JOINT SEAL (MR 1 1/2")	78 LF

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 5, 10, 57, 60, 605, 710 BRIDGES <b>GENERAL PLAN NO. 1</b>			
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang		CHECKED Edward Li		POST MILE		
	QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson		CHECKED Kevin Ellingson		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: 07000212301	CONTRACT NO.: 07-1W2804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 01 OF 19

USERNAME => s129239 DATE PLOTTED => 14-MAR-2013 TIME PLOTTED => 09:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	31	48
<i>Edward Li</i> REGISTERED CIVIL ENGINEER DATE 01/11/13					
4-02-13			PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

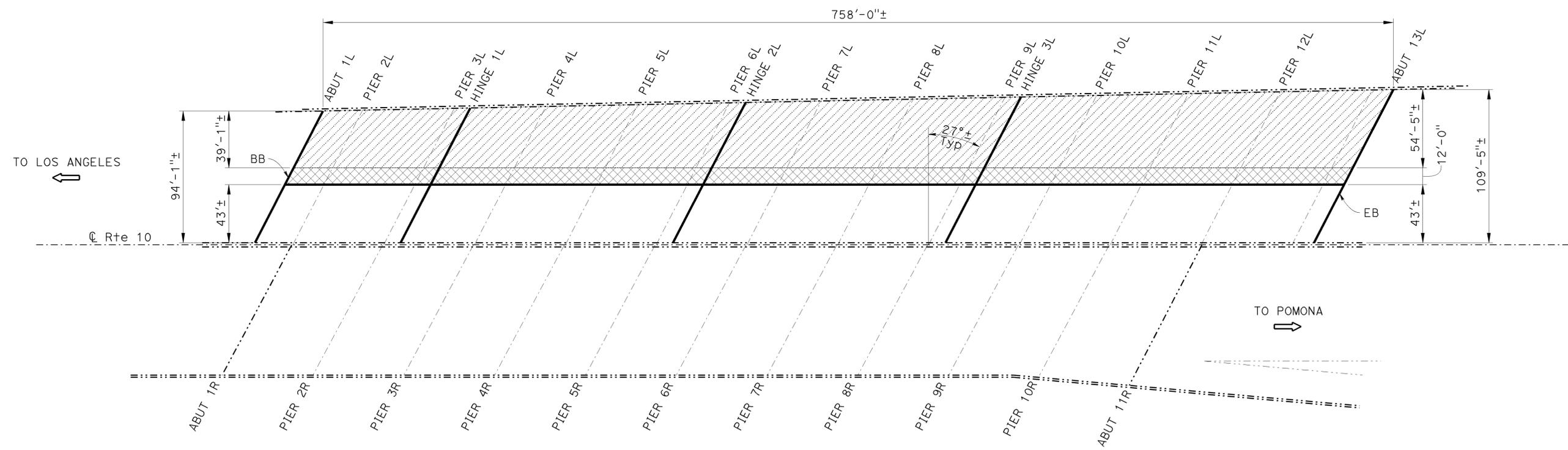
**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and place high molecular weight methacrylate.
-  Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch) as directed by the Engineer.
-  Indicates limits of removal of existing 2 1/2 " thick asphalt concrete overlay, prepare concrete bridge deck surface, furnish and place new 2 1/2 " depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "MISCELLANEOUS DETAILS NO. 2".

SAN GABRIEL RIVER BRIDGE NO. 53-0109L

QUANTITIES

	LUMP	SUM
PUBLIC SAFETY PLAN	9,100	SOFT
REMOVE ASPHALT CONCRETE SURFACING	59,443	SOFT
PREPARE CONCRETE BRIDGE DECK SURFACE	2,274	CF
FURNISH POLYESTER CONCRETE OVERLAY	9,100	SOFT
PLACE POLYESTER CONCRETE OVERLAY	50,343	SOFT
TREAT BRIDGE DECK	630	GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,325	LF
CLEAN EXPANSION JOINT	567	LF
JOINT SEAL (MR 1 1/2")	758	LF
JOINT SEAL (TYPE AL)		



**SAN GABRIEL RIVER**  
 Br No. 53-0109L, Rte 10, PM 30.84  
 1" = 40'

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5, 10, 57, 60, 605, 710 BRIDGES <b>GENERAL PLAN NO. 2</b>		
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang			POST MILE			
	QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson			Varies			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 07000212301	CONTRACT NO.: 07-1W2804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 02 OF 19

USERNAME => s129239 DATE PLOTTED => 14-MAR-2013 TIME PLOTTED => 09:11

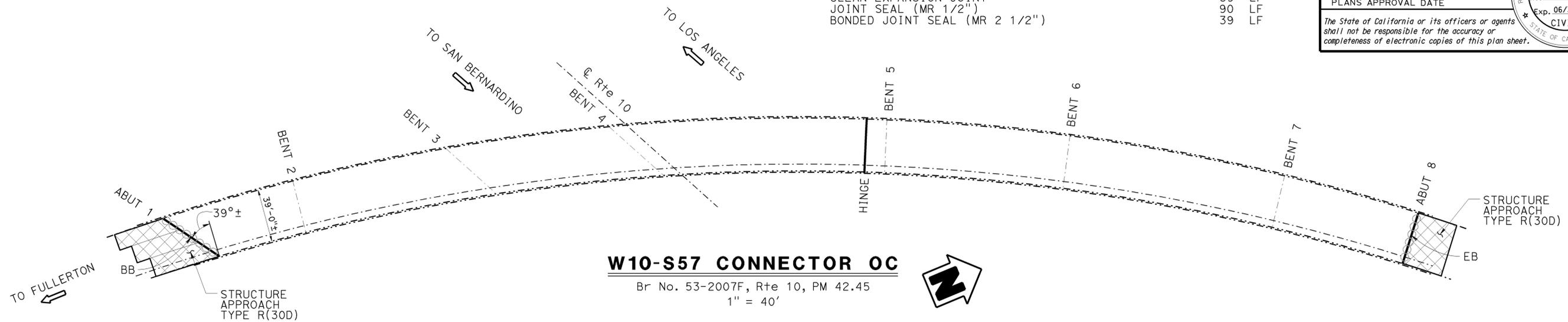
W10-S57 CONNECTOR OC

BRIDGE NO. 53-2007F

QUANTITIES

STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	104	CY
PAVING NOTCH EXTENSION	67	CF
CLEAN EXPANSION JOINT	39	LF
JOINT SEAL (MR 1/2")	90	LF
BONDED JOINT SEAL (MR 2 1/2")	39	LF

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	32	48
Edward Li REGISTERED CIVIL ENGINEER No. C56706 Exp. 06/30/13 CIVIL			01/11/13 DATE 4-02-13 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.					



**W10-S57 CONNECTOR OC**

Br No. 53-2007F, Rte 10, PM 42.45  
1" = 40'

DUDLEY STREET OC

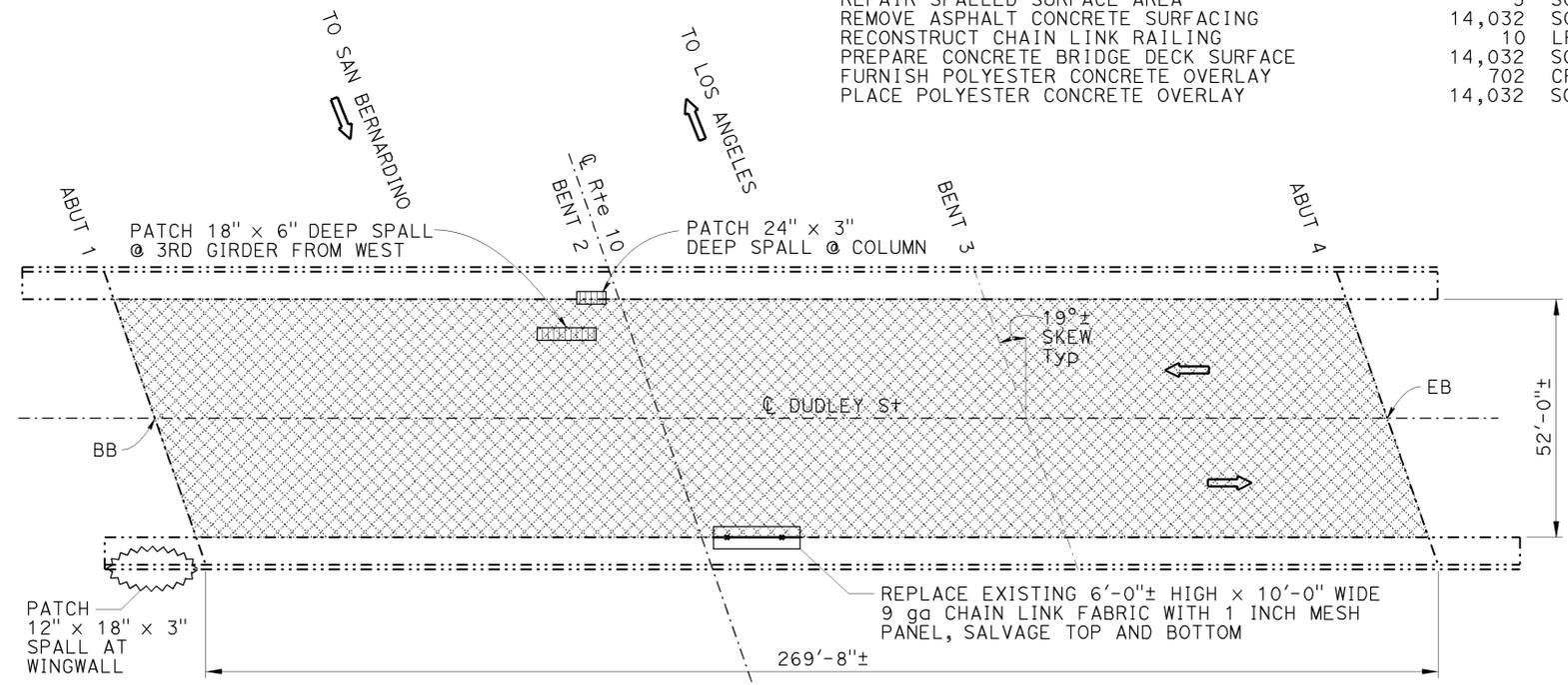
BRIDGE NO. 53-0851

QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
REPAIR SPALLED SURFACE AREA	3	SQFT
REMOVE ASPHALT CONCRETE SURFACING	14,032	SQFT
RECONSTRUCT CHAIN LINK RAILING	10	LF
PREPARE CONCRETE BRIDGE DECK SURFACE	14,032	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	702	CF
PLACE POLYESTER CONCRETE OVERLAY	14,032	SQFT

**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
- / Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch) as directed by the Engineer.
- [Hatched Box] Indicates limits of removal of existing 1/2" thick asphalt concrete overlay.
- [Cross-hatched Box] Indicates limits of prepare concrete bridge deck surface, furnish and place new 1/2" depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "MISCELLANEOUS DETAILS NO. 2".
- [Grid Pattern Box] Indicates limits of remove AC roadway and construct new structure approach slabs with paving notch extension.
- ⊖ Indicates location of placement of new joint seal.
- [Dotted Box] Indicates patching soffit spalls, locations verified by the Engineer.



**DUDLEY STREET OC**

Br No. 53-0851, Rte 10, PM 44.19  
1" = 20'

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

DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson

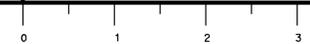
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies  
**ROUTE 5, 10, 57, 60, 605, 710 BRIDGES**  
**GENERAL PLAN NO. 3**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489  
PROJECT NUMBER & PHASE: 07000212301

CONTRACT NO.: 07-1W2804

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
	03	19

FILE => 07-1w2801.dgn

USERNAME => s129239 DATE PLOTTED => 14-MAR-2013 TIME PLOTTED => 09:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	33	48
Edward Li			01/11/13	REGISTERED CIVIL ENGINEER DATE	
4-02-13			PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER EDWARD GUOJUN LI No. C56706 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

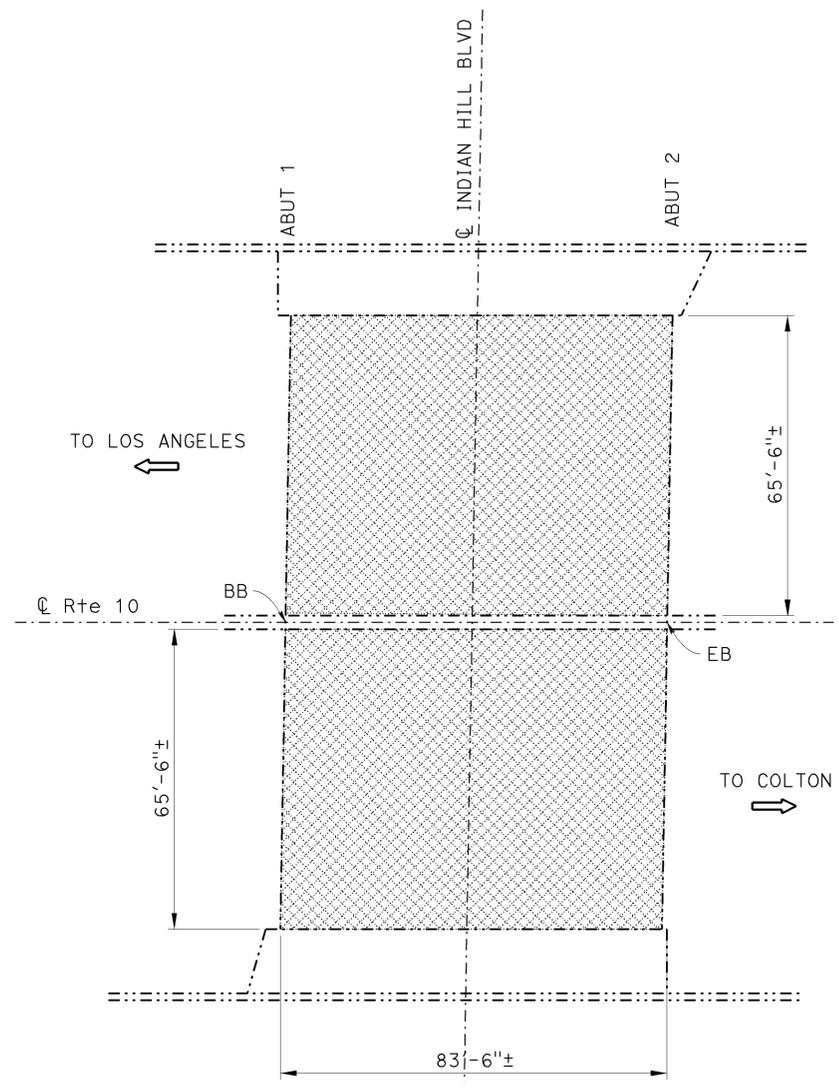
INDIAN HILL BLVD UC BRIDGE NO. 53-0860

QUANTITIES

	LUMP	SUM
PUBLIC SAFETY PLAN		
REMOVE ASPHALT CONCRETE SURFACING	10,970	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	10,970	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	1,100	CF
PLACE POLYESTER CONCRETE OVERLAY	10,970	SQFT

**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch) as directed by the Engineer.
- ▨ Indicates limits of removal of existing 1" thick asphalt concrete overlay.
- ▩ Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "MISCELLANEOUS DETAILS NO. 2".
- ▧ Indicates patching soffit spalls, locations verified by the Engineer.

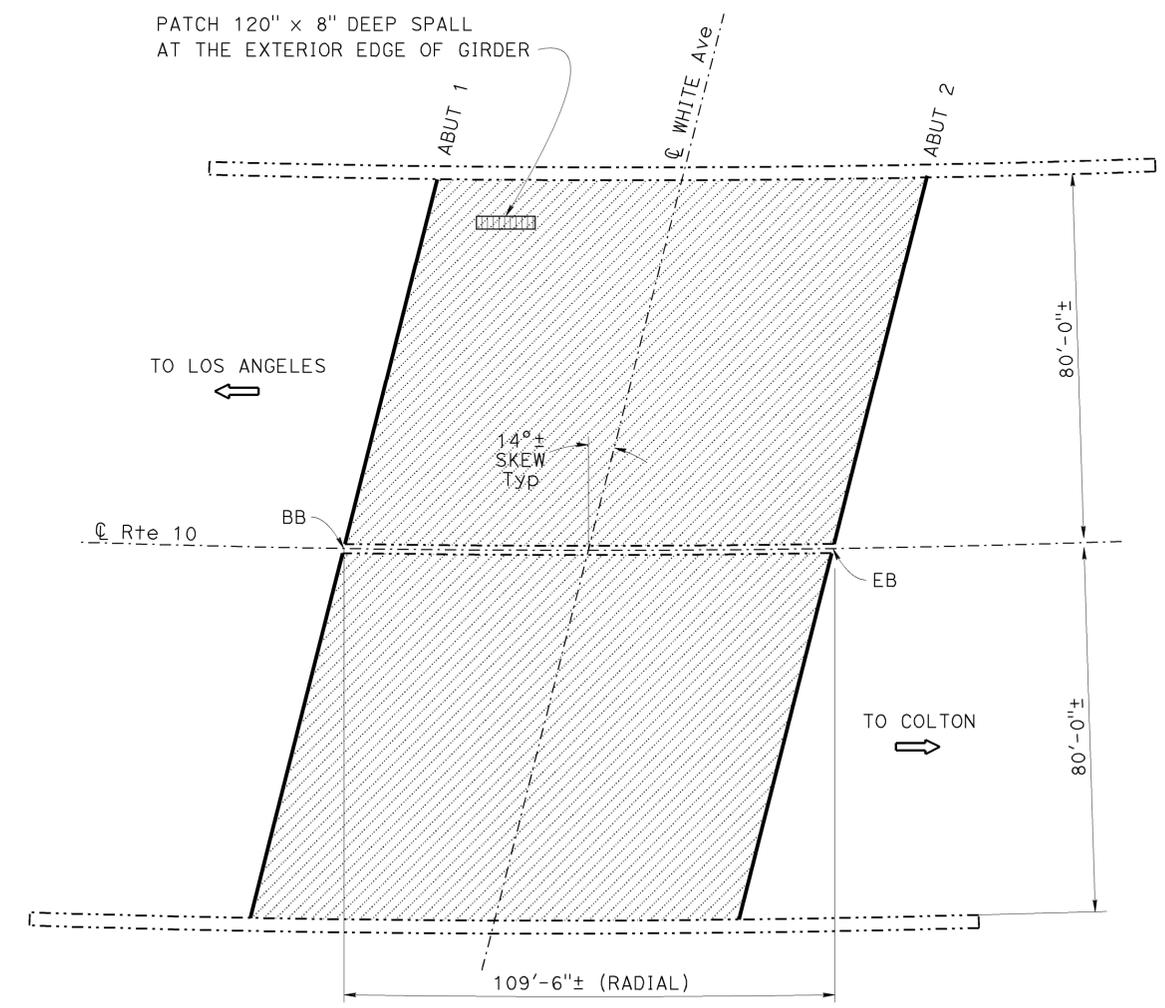


**INDIAN HILL BLVD UC**  
 Br No. 53-0860, Rte 10, PM 47.74  
 1" = 20'

WHITE AVE UC BRIDGE NO. 53-0853

QUANTITIES

	LUMP	SUM
PUBLIC SAFETY PLAN		
REPAIR SPALLED SURFACE AREA	7	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	17,520	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	1,752	CF
PLACE POLYESTER CONCRETE OVERLAY	17,520	SQFT
CLEAN EXPANSION JOINT	330	LF
JOINT SEAL (MR 1/2")	330	LF



**WHITE AVENUE UC**  
 Br No. 53-0853, Rte 10, PM 45.28  
 1" = 20'

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

DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Varies

**ROUTE 5, 10, 57, 60, 605, 710 BRIDGES**

**GENERAL PLAN NO. 4**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	34	48

Edward Li 01/11/13  
REGISTERED CIVIL ENGINEER DATE

4-02-13  
PLANS APPROVAL DATE

No. C56706  
Exp. 06/30/13  
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.

COLD SPRING LANE UC

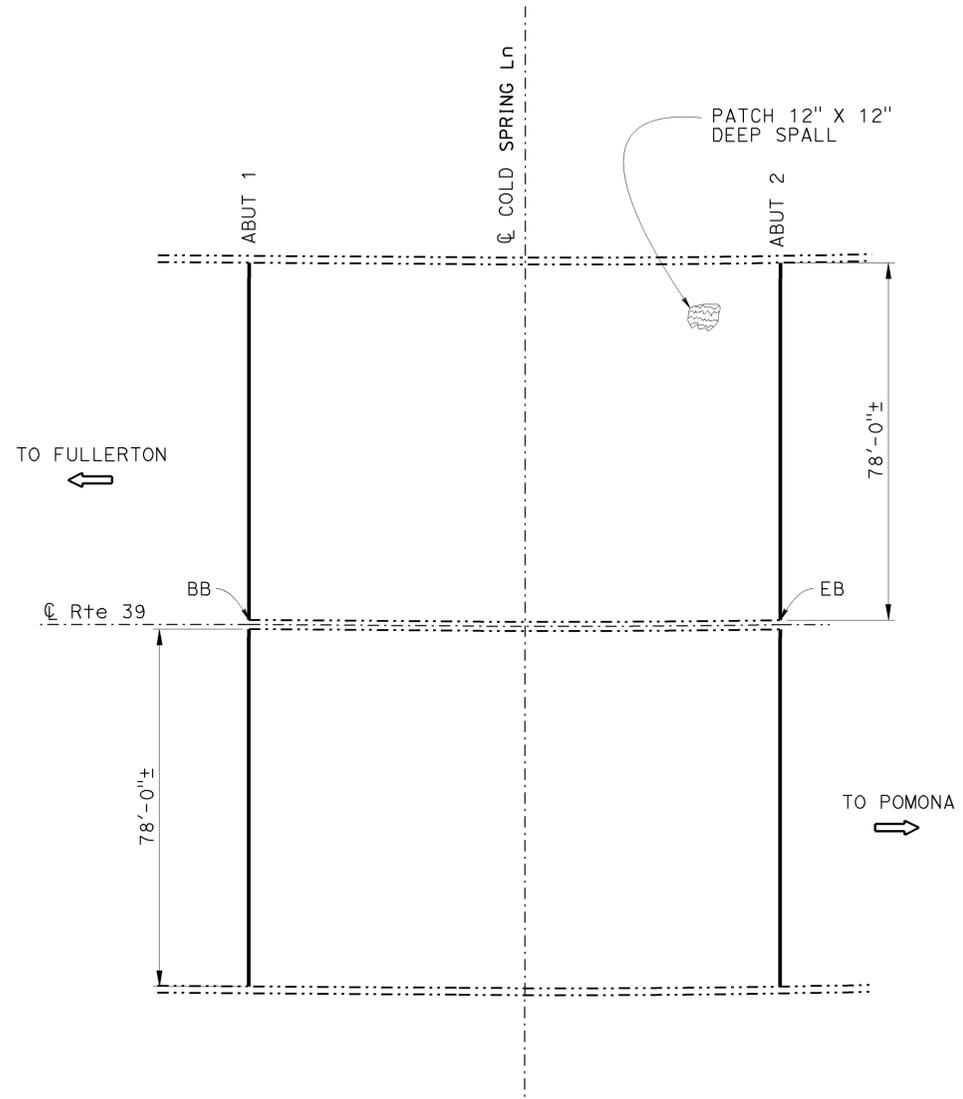
BRIDGE NO. 53-2163

QUANTITIES

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

**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and place high molecular weight methacrylate.
- /— Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch) as directed by the Engineer.
- ▤ Indicates removal of unsound concrete and place rapid setting concrete patch. Actual area may vary and will be determined by the Engineer.



**COLD SPRING LANE UC**

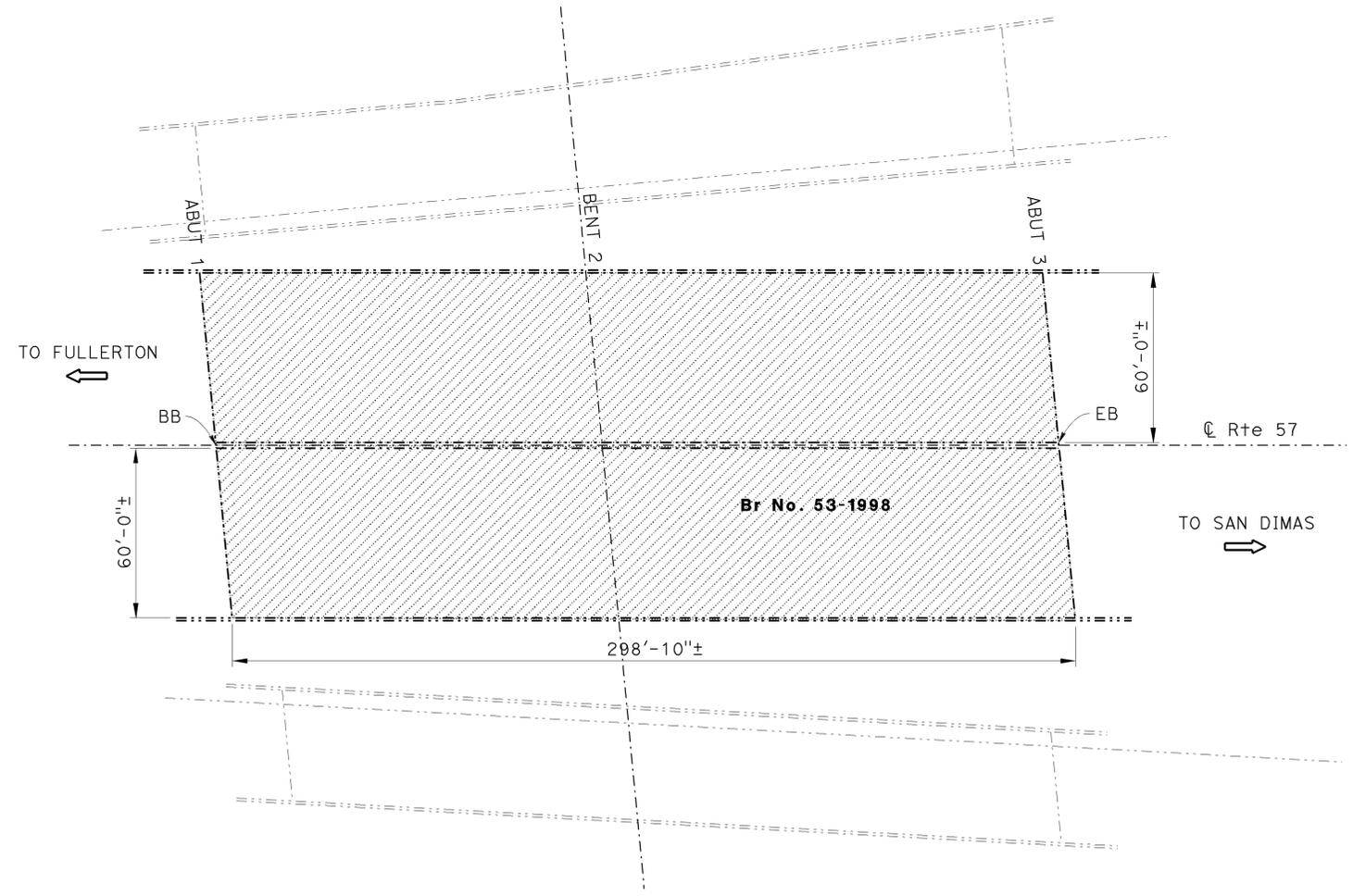
Br No. 53-2163, Rte 57, PM R2.52  
1" = 20'



SAN JOSE WASH FLOOD CONTROL CHANNEL BRIDGE NO. 53-1998

QUANTITIES

PUBLIC SAFETY PLAN LUMP SUM  
PREPARE CONCRETE BRIDGE DECK SURFACE 35,928 SQFT  
TREAT BRIDGE DECK 35,928 SQFT  
FURNISH BRIDGE DECK TREATMENT MATERIAL 450 GAL



**SAN JOSE WASH FLOOD CONTROL CHANNEL**

Br No. 53-1998, Rte 57, PM R7.30  
1" = 30'



NOTE:  
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DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

ROUTE 5, 10, 57, 60, 605, 710 BRIDGES  
GENERAL PLAN NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	35	48

Edward Li 01/11/13  
REGISTERED CIVIL ENGINEER DATE

4-02-13  
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.

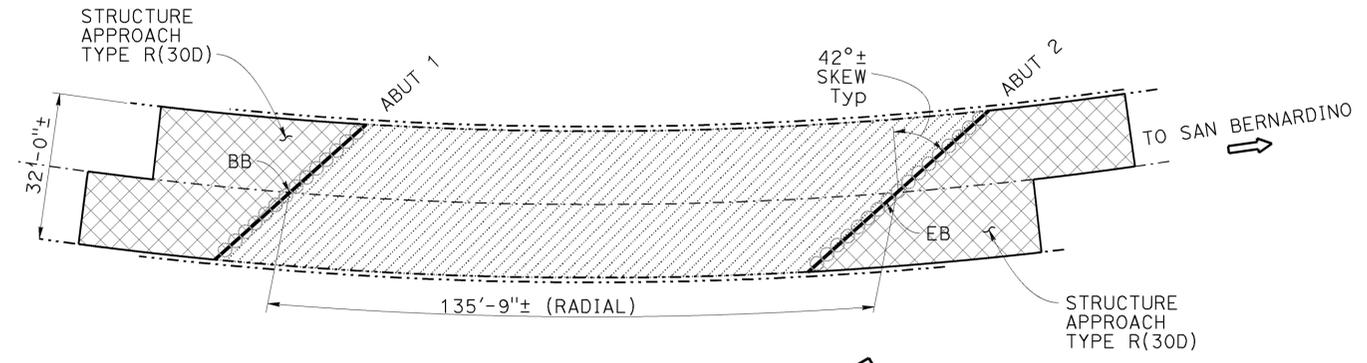
REGISTERED PROFESSIONAL ENGINEER  
EDWARD GUOJUN LI  
No. C56706  
Exp. 06/30/13  
CIVIL  
STATE OF CALIFORNIA

S57-E10 CONNECTOR OC QUANTITIES BRIDGE NO. 53-2001F

PUBLIC SAFETY PLAN	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	4,372	SOFT
TREAT BRIDGE DECK	4,372	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	55	GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	97	CY
PAVING NOTCH EXTENSION	65	CF
JOINT SEAL (MR 1/2")	86	LF

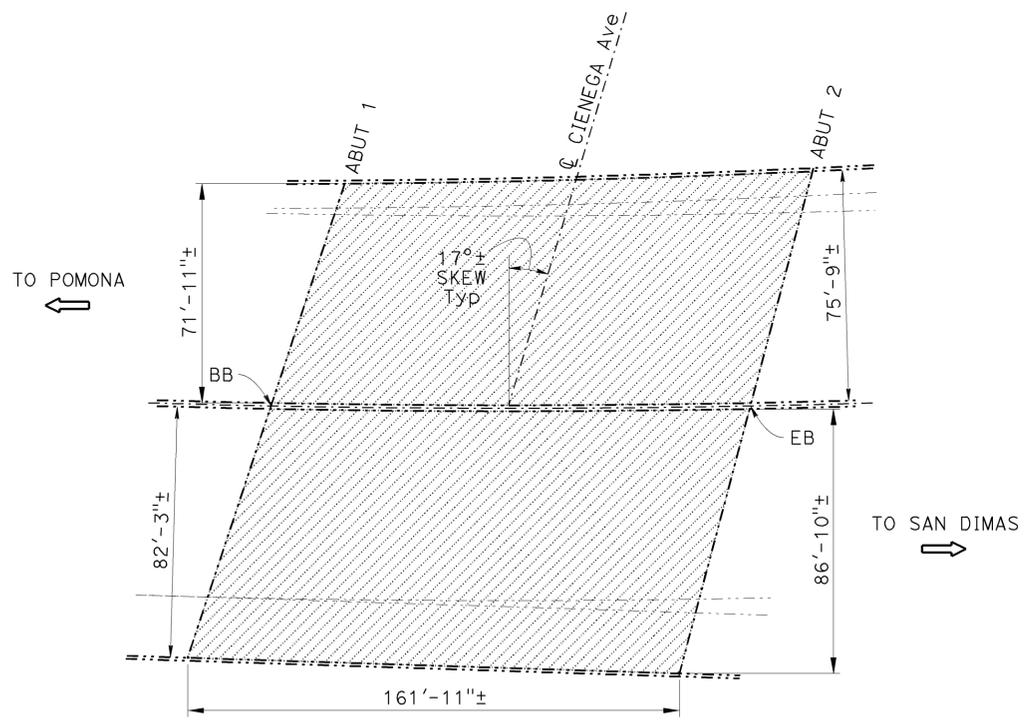
**LEGEND:**

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and place high molecular weight methacrylate.
- ▩ Indicates limits of remove AC roadway and construct new structure approach slabs with paving notch extension.
- ⊗ Indicates location of placement of new joint seal.
- ▤ Indicates patching soffit spalls, locations verified by the Engineer.



**S57-E10 CONNECTOR OC**

Br No. 53-2001F, Rte 57, PM R7.68  
1" = 20'



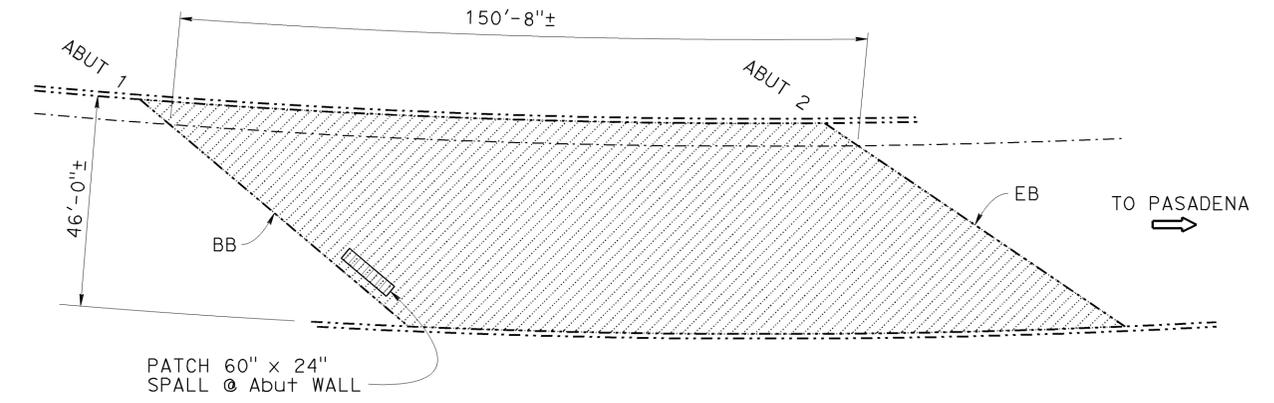
**CIENEGA AVENUE UC**

Br No. 53-1969, Rte 57, PM R10.57  
1" = 30'



CIENEGA Ave UC QUANTITIES BRIDGE NO. 53-1969

PUBLIC SAFETY PLAN	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	25,325	SOFT
TREAT BRIDGE DECK	25,325	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	312	GAL



**N57-W210/ W210-S57 CONNECTOR SEPARATION**

Br No. 53-1992L, Rte 57, PM R11.65  
1" = 20'



N57-W210/W210-S57 CONNECTOR SEPARATION BRIDGE NO. 53-1992L QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
REPAIR SPALLED SURFACE AREA	10	SOFT
PREPARE CONCRETE BRIDGE DECK SURFACE	7,020	SOFT
TREAT BRIDGE DECK	7,020	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	88	GAL

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

DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

ROUTE 5, 10, 57, 60, 605, 710 BRIDGES  
GENERAL PLAN NO. 6

FILE => 07-1w2801.dgn  
DATE PLOTTED => 14-MAR-2013  
TIME PLOTTED => 09:17  
USER NAME => s129239

WHITTIER BLVD UC

BRIDGE NO. 53-0075L

QUANTITIES

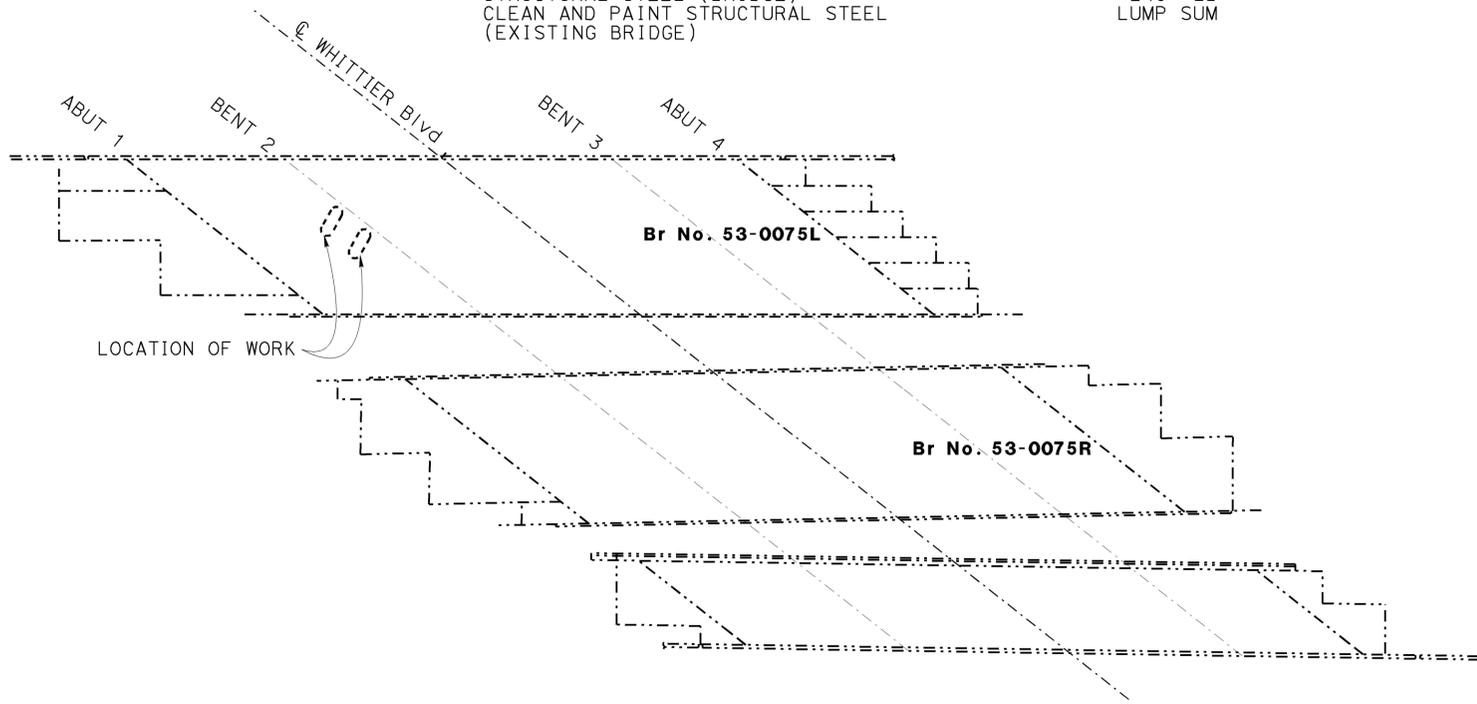
BRIDGE REMOVAL (PORTION), LOCATION A  
STRUCTURAL STEEL (BRIDGE)  
CLEAN AND PAINT STRUCTURAL STEEL  
(EXISTING BRIDGE)

LUMP SUM  
240 LB  
LUMP SUM

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	36	48
Edward Li			01/11/13	REGISTERED CIVIL ENGINEER DATE	
4-02-13			PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

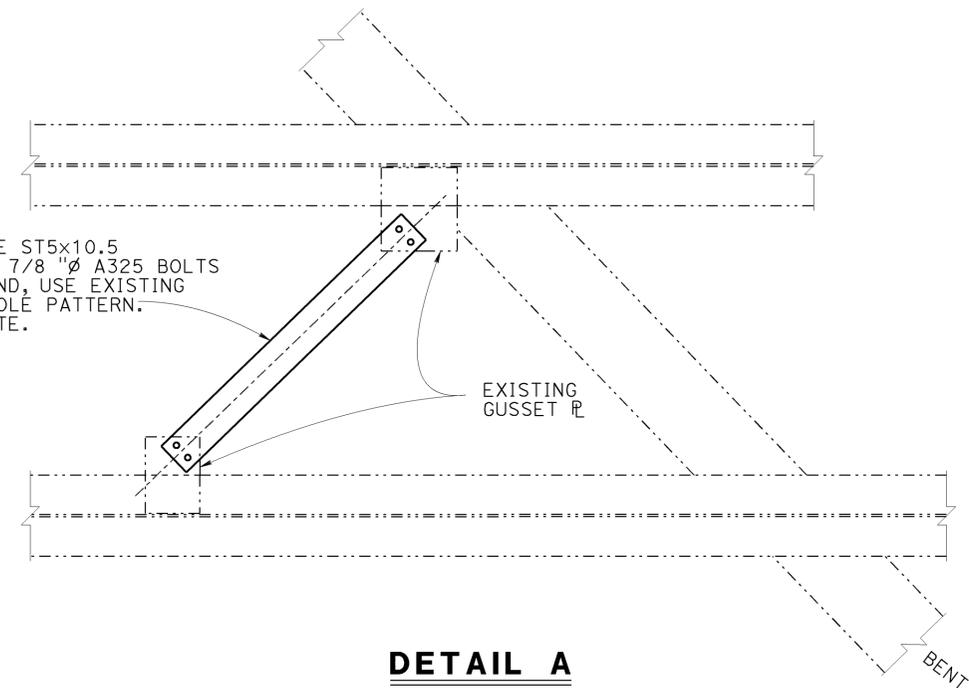


WHITTIER BLVD UC

Br No. 53-0075L, Rte 60, PM R1.27  
1" = 40'



REPLACE ST5x10.5  
W/2 - 7/8" A325 BOLTS  
@ Ea END, USE EXISTING  
BOLT HOLE PATTERN.  
SEE NOTE.

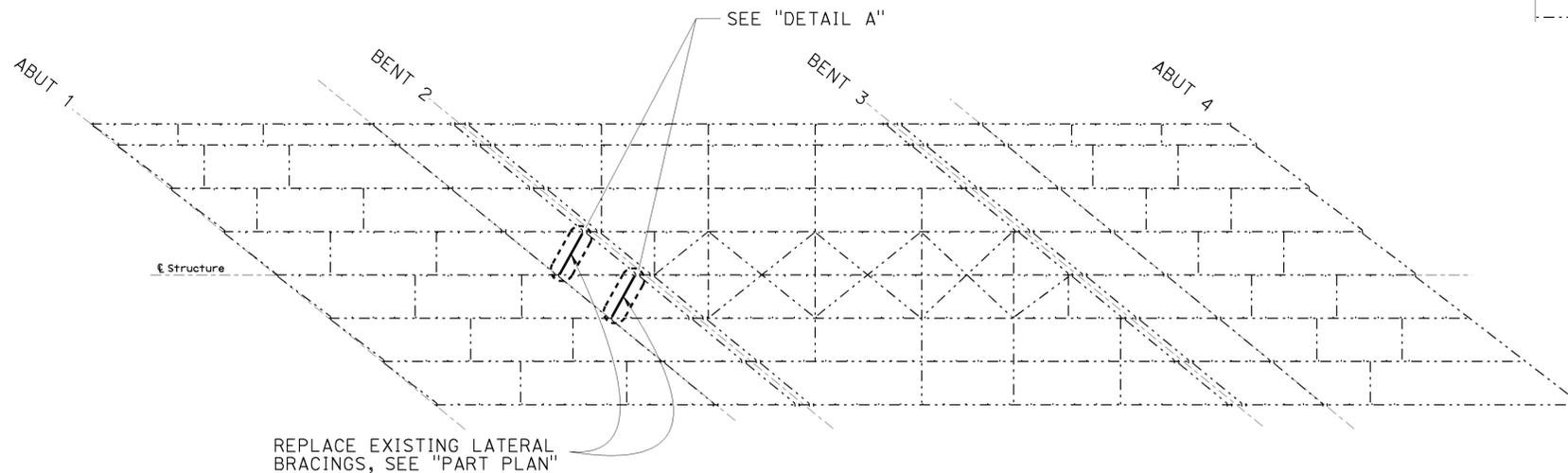


DETAIL A

NO SCALE

NOTE:

NEW STEEL NEED TO BE CLEANED AND PAINTED PRIOR TO ARRIVAL ON-SITE.



GIRDER LAYOUT

1" = 20'  
(Br No. 53-0075L)

NOTE:  
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DESIGN ENGINEER <b>TONY D. BRAKE</b>	DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
	QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.  
Various  
POST MILE  
Varies

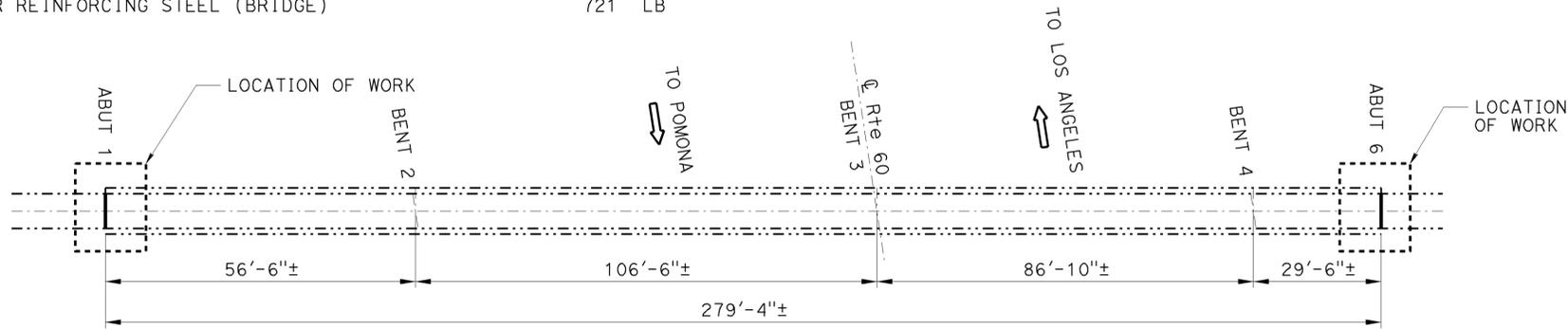
ROUTE 5, 10, 57, 60, 605, 710 BRIDGES  
GENERAL PLAN NO. 7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	37	48

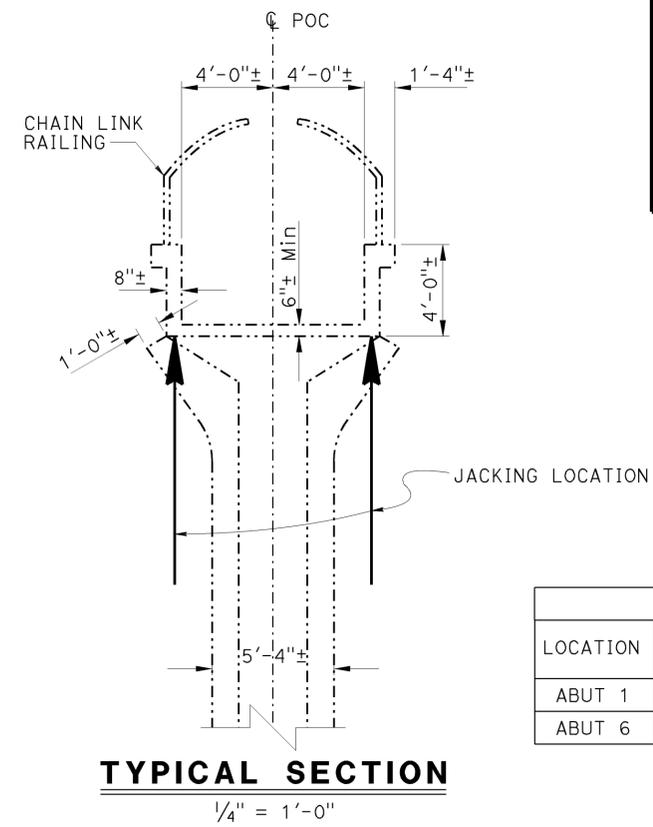
Edward Li 01/11/13  
 REGISTERED CIVIL ENGINEER DATE  
 4-02-13  
 PLANS APPROVAL DATE  
 No. C56706  
 Exp. 06/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM	2	CY
STRUCTURE EXCAVATION (BRIDGE)		16	CY
STRUCTURE EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)		9	CY
STRUCTURE BACKFILL (BRIDGE)	LUMP SUM	11	CY
TEMPORARY SUPPORT		22	LF
STRUCTURAL CONCRETE, BRIDGE		721	LB
JOINT SEAL (MR 1 1/2")			
BAR REINFORCING STEEL (BRIDGE)			

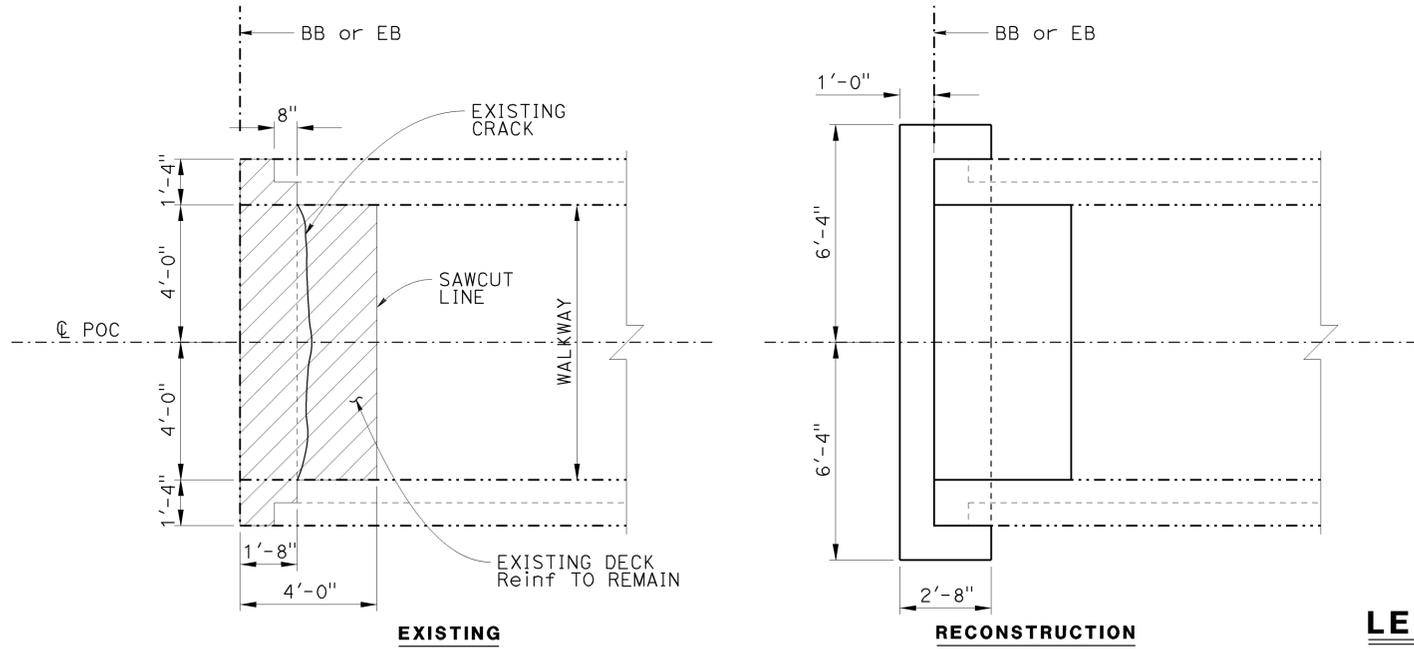


**MARIANNA AVENUE POC**  
 Br No. 53-0774, Rte 60, PM R2.94  
 1" = 20'



**TEMPORARY SUPPORT TABLE**

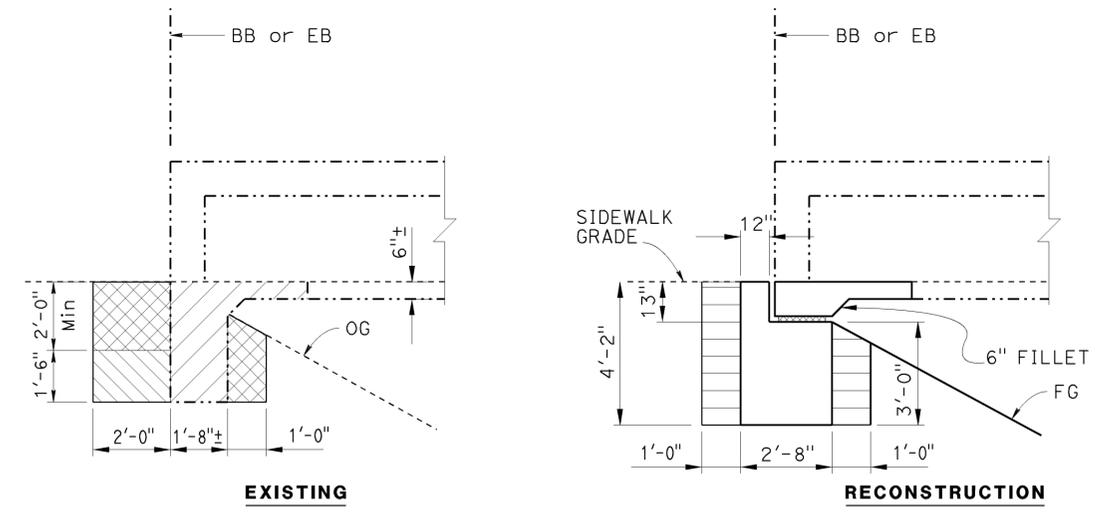
LOCATION	DEAD LOAD (kips)	LATERAL LOAD (kips)	DEAD+LIVE LOAD (kips)
ABUT 1	100	2	110
ABUT 6	50	1	55



**PARTIAL PLAN**  
 3/8" = 1'-0"  
 (ABUT 1 SHOWN, ABUT 5 SIMILAR)  
 Chain Link Railing not shown for clarity

**LEGEND:**

- Indicates existing.
- Indicates reconstruction.
- [Hatched Box] Indicates existing concrete to be removed, existing deck reinforcement to remain.
- [Diagonal Lines] Indicates limits of structure excavation.
- [Cross-hatched Box] Indicates limits of structure excavation (Type Z-2). (Aerially Deposited Lead).
- [Horizontal Lines] Indicates limits of backfill.

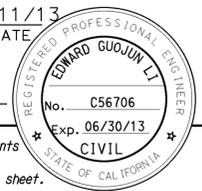


**PARTIAL ELEVATION**  
 3/8" = 1'-0"  
 (ABUT 1 SHOWN, ABUT 5 SIMILAR)  
 Chain Link Railing not shown for clarity,  
 See "ABUTMENT DETAILS" sheet for more information

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

DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA	DIVISION OF MAINTENANCE	BRIDGE NO.
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang	DEPARTMENT OF TRANSPORTATION	STRUCTURE MAINTENANCE DESIGN	Various
QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson			POST MILE
							Varies

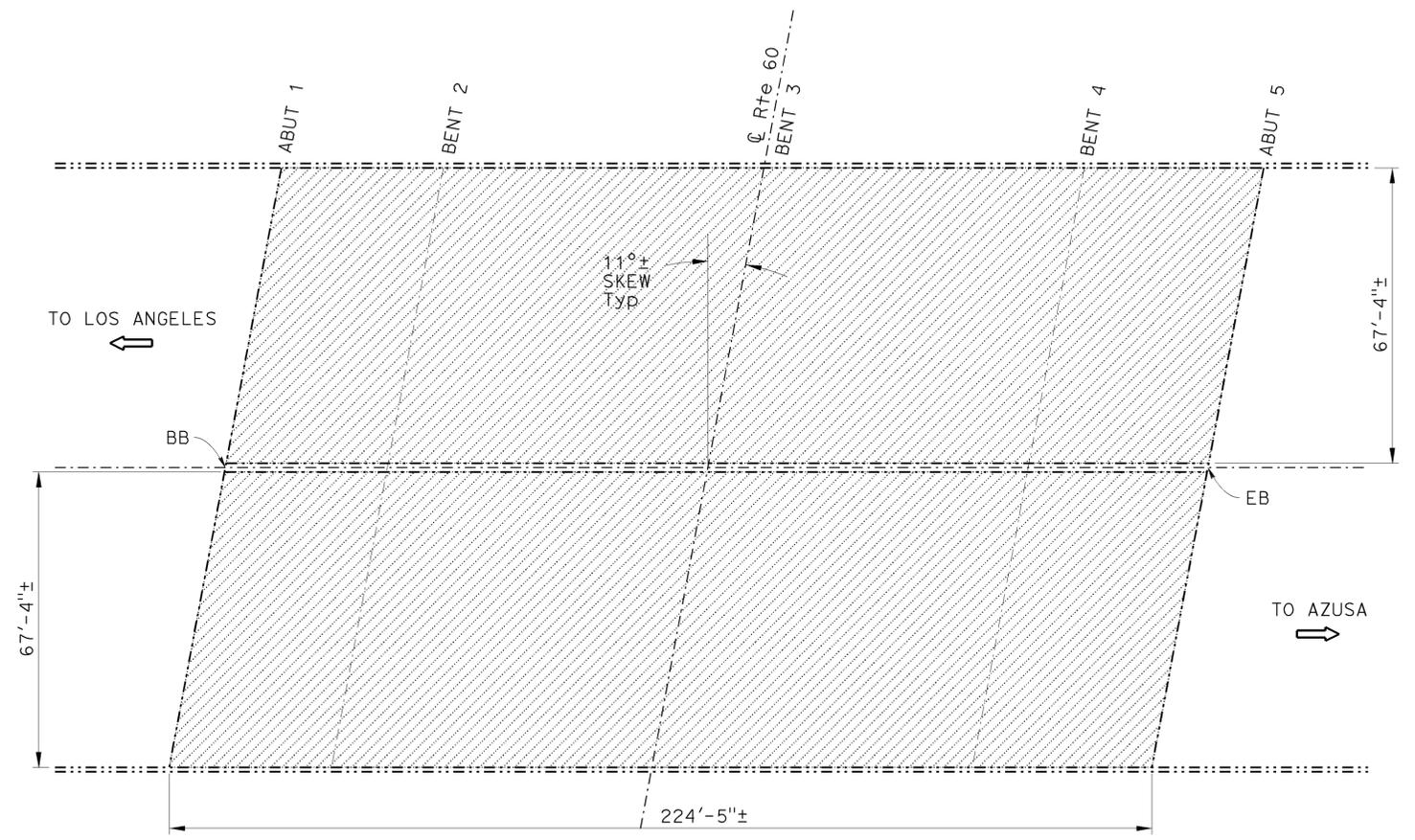
**MARIANNA AVENUE POC (Br No. 53-0774)**  
**ROUTE 5, 10, 57, 60, 605, 710 BRIDGES**  
**GENERAL PLAN NO. 8**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	38	48
<i>Edward Li</i> REGISTERED CIVIL ENGINEER			DATE	01/11/13	
4-02-13 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

**LEGEND:**

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

ROUTE 60/710 SEPARATION	BRIDGE NO. 53-0389
PUBLIC SAFETY PLAN	QUANTITIES
PREPARE CONCRETE BRIDGE DECK SURFACE	LUMP SUM
TREAT BRIDGE DECK	30,186 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	30,186 SQFT
	380 GAL



**ROUTE 60/710 SEPARATION**

Br No. 53-0389, Rte 60, PM R3.25  
 1" = 20'



NOTE:  
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*TONY D. BRAKE*  
 DESIGN ENGINEER

DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson
				CHECKED Edward Li
				PLANS AND SPECS COMPARED Kevin Ellingson

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTE 5, 10, 57, 60, 605, 710 BRIDGES  
 GENERAL PLAN NO. 09

USERNAME => s129239 DATE PLOTTED => 14-MAR-2013 TIME PLOTTED => 09:20

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	39	48
<i>Edward Li</i> REGISTERED CIVIL ENGINEER			01/11/13 DATE		
4-02-13 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

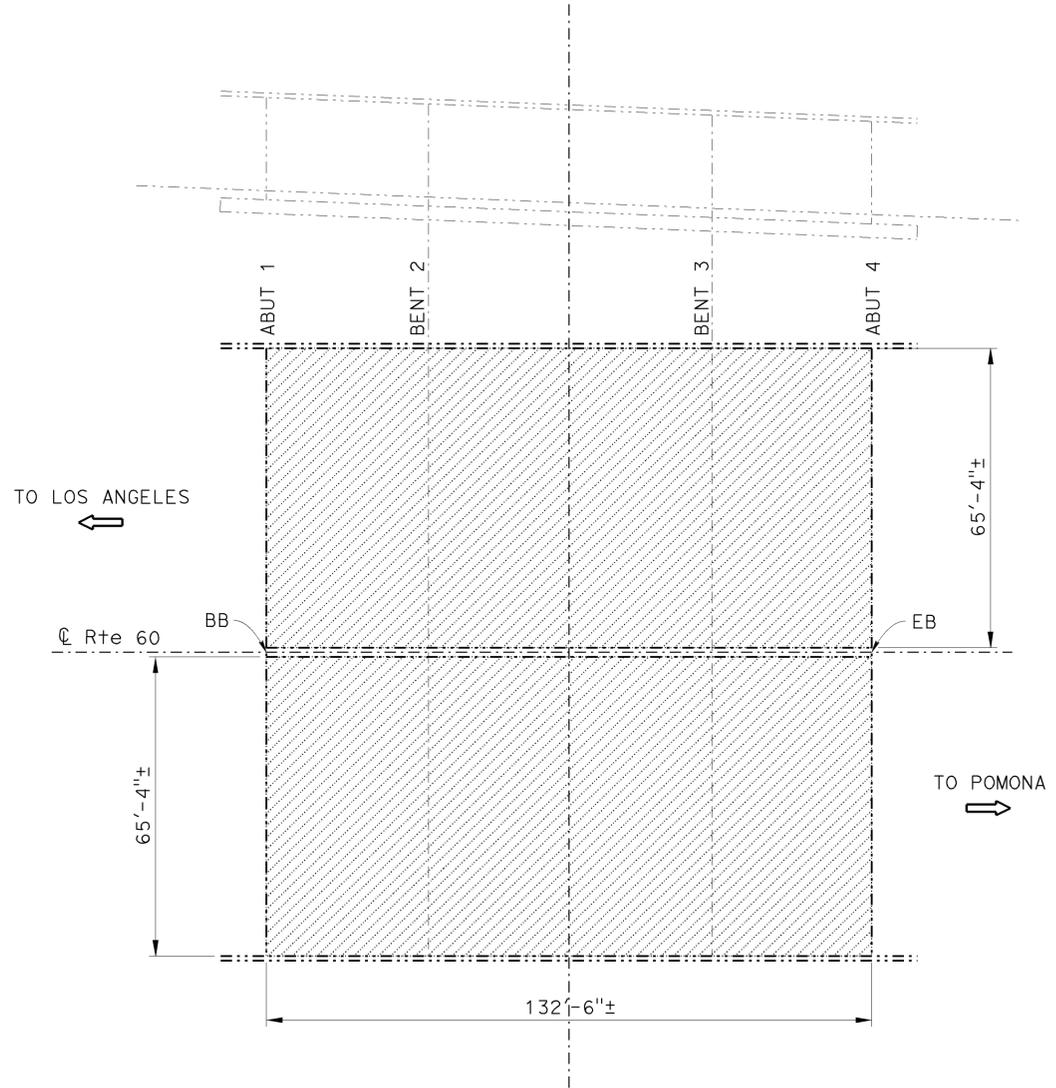
**LEGEND:**

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

MARKLAND DRIVE UC BRIDGE NO. 53-1709K

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM	
PREPARE CONCRETE BRIDGE DECK SURFACE	17,485 SQFT	
TREAT BRIDGE DECK	17,485 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	220 GAL	



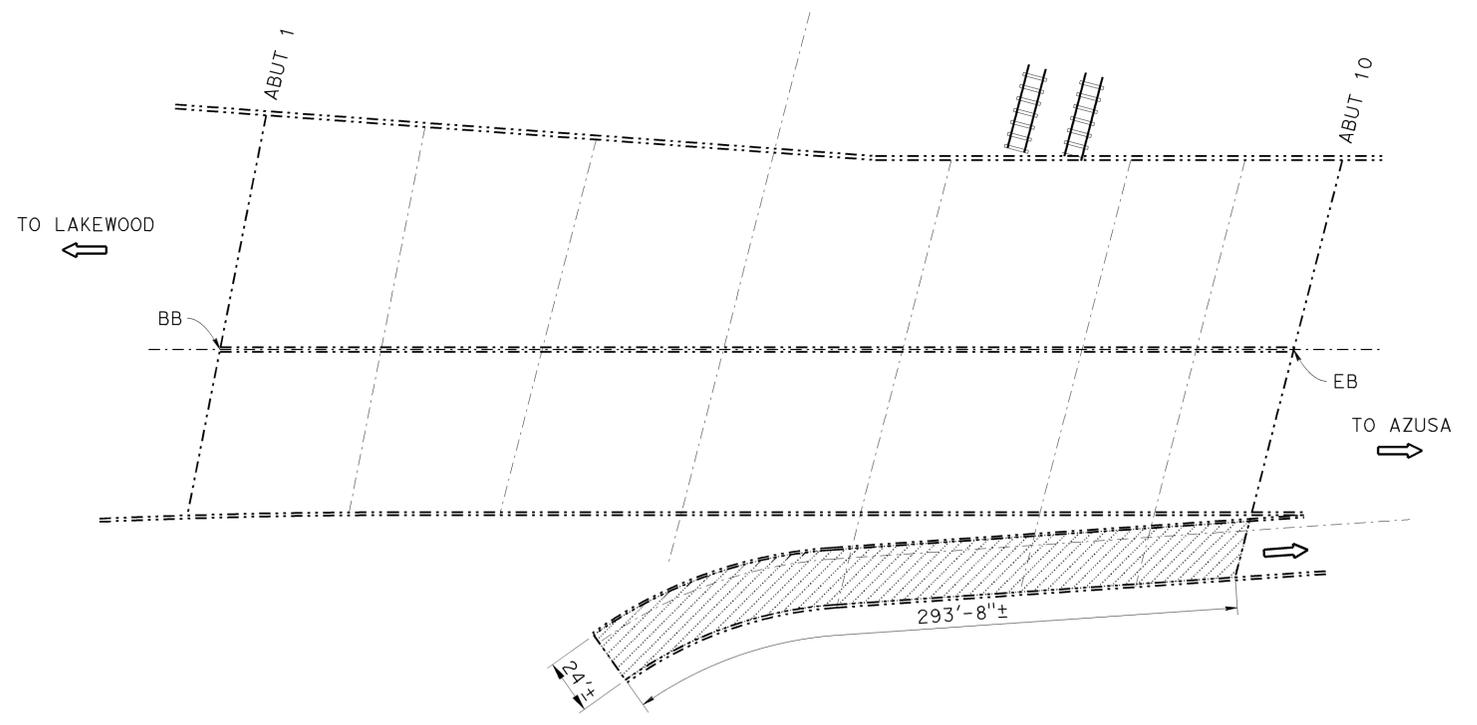
**MARKLAND DRIVE UC**  
 Br No. 53-1709K, Rte 60, PM R6.30  
 1" = 20'



RIVERGRADE OH BRIDGE NO. 53-1537

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM	
PREPARE CONCRETE BRIDGE DECK SURFACE	7,075 SQFT	
TREAT BRIDGE DECK	7,075 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	89 GAL	



**RIVERGRADE OH**  
 Br No. 53-1537, Rte 605, PM R19.39  
 1" = 40'



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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
	QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Various

ROUTE 5, 10, 57, 60, 605, 710 BRIDGES  
 GENERAL PLAN NO. 10

UNIT: 3489  
 PROJECT NUMBER & PHASE: 07000212301  
 CONTRACT NO.: 07-1W2804

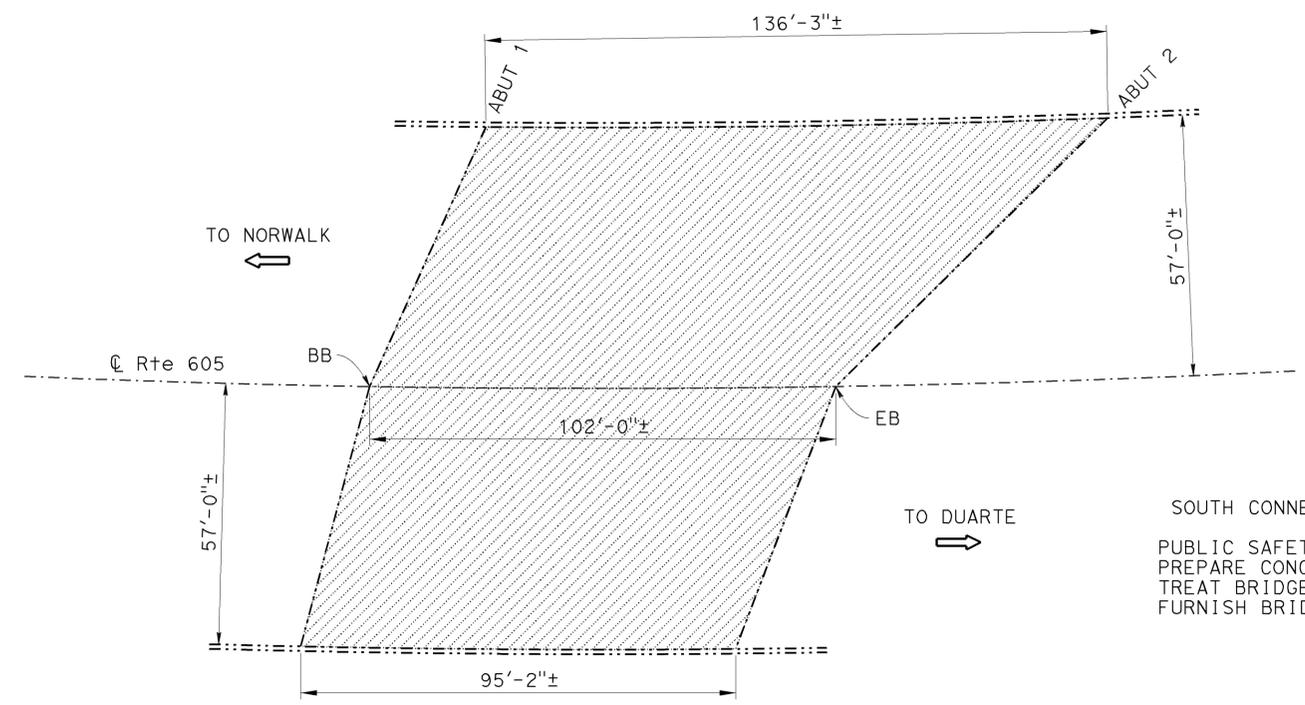
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
	10	19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	40	48
<i>Edward Li</i> REGISTERED CIVIL ENGINEER			DATE	01/11/13 REGISTERED PROFESSIONAL ENGINEER EDWARD GUOJUN LI No. C56706 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA	
PLANS APPROVAL DATE			4-02-13		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

**LEGEND:**

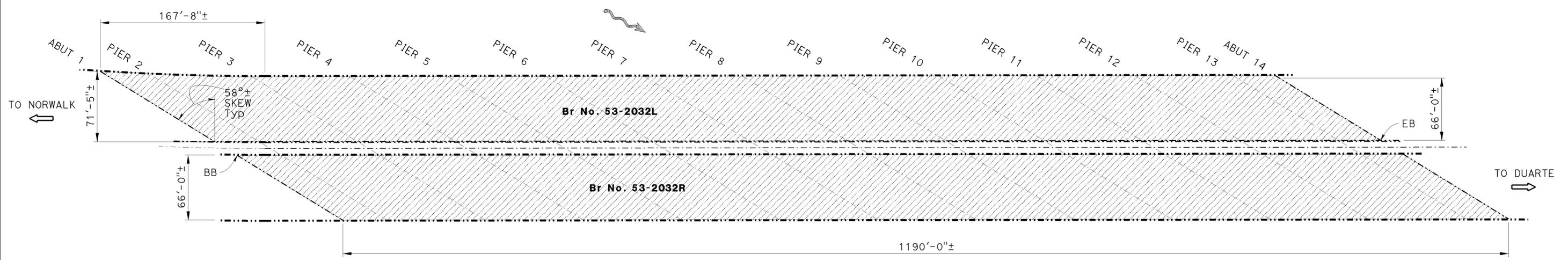
- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and place high molecular weight methacrylate.



**SOUTH CONNECTOR UC**

Br No. 53-1631, Rte 605, PM R20.09  
1" = 20'

SOUTH CONNECTOR UC	QUANTITIES	BRIDGE NO. 53-1631
PUBLIC SAFETY PLAN	LUMP SUM	
PREPARE CONCRETE BRIDGE DECK SURFACE	12,200 SQFT	
TREAT BRIDGE DECK	12,200 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	155 GAL	



**SAN GABRIEL RIVER**

Br No. 53-2032L/R, Rte 605, PM 22.69  
1" = 50'

SAN GABRIEL RIVER	QUANTITIES	BRIDGE NO. 53-2032L/R
PUBLIC SAFETY PLAN	LUMP SUM	
PREPARE CONCRETE BRIDGE DECK SURFACE	160,360 SQFT	
TREAT BRIDGE DECK	160,360 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	2,007 GAL	

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DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies  
**ROUTE 5, 10, 57, 60, 605, 710 BRIDGES**  
**GENERAL PLAN NO. 11**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	41	48

Edward Li 01/11/13  
 REGISTERED CIVIL ENGINEER DATE  
 4-02-13  
 PLANS APPROVAL DATE  
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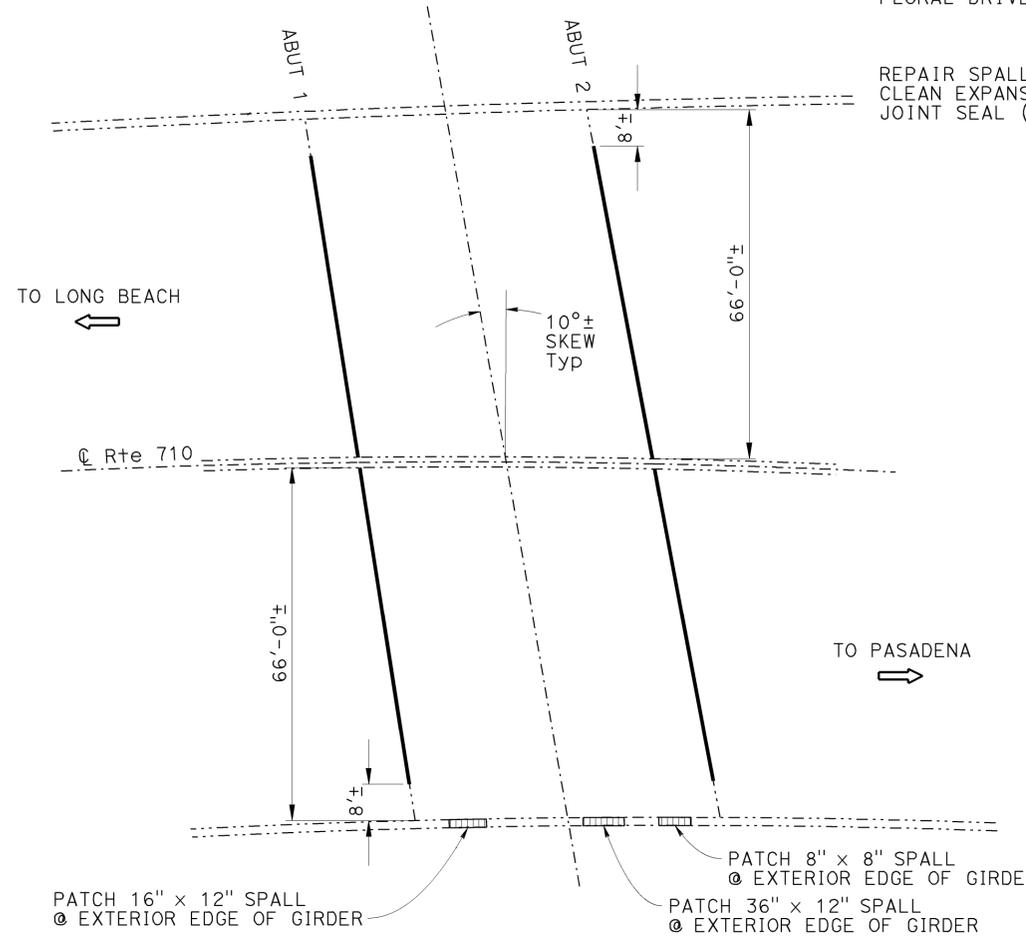
FLORAL DRIVE UC BRIDGE NO. 53-1155

QUANTITIES

REPAIR SPALLED SURFACE AREA	5	SQFT
CLEAN EXPANSION JOINT	236	LF
JOINT SEAL (MR 1 1/2")	236	LF

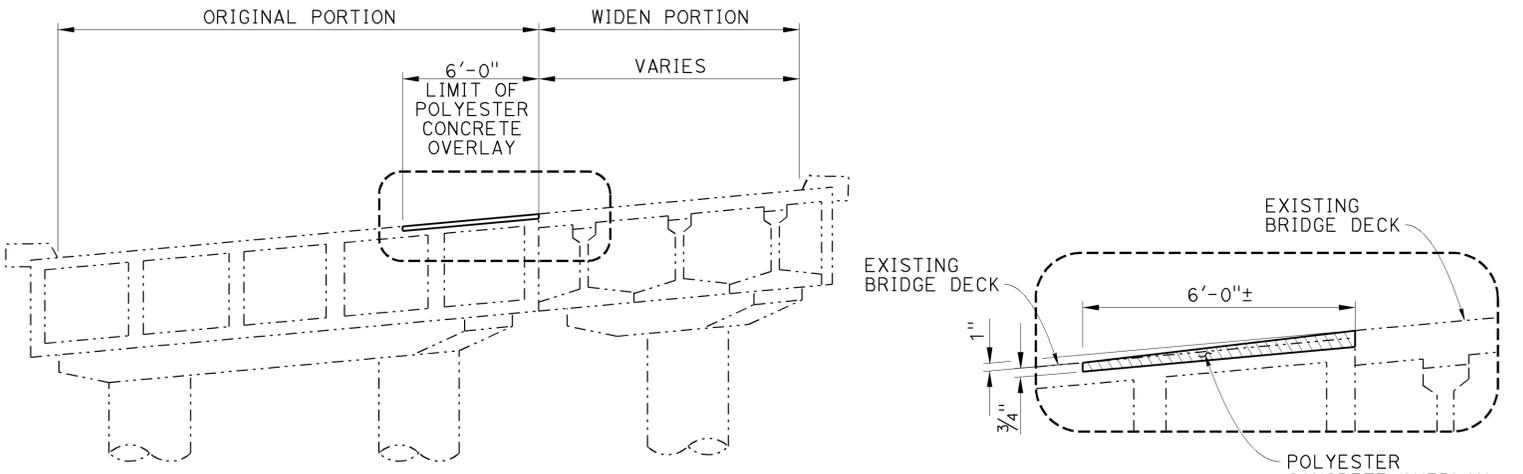
LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- /— Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch) as directed by the Engineer.
- [Hatched Box] Indicates limits of overlay with polyester concrete.
- [Cross-hatched Box] Indicates limits of remove AC roadway and construct new structure approach slabs with paving notch extension.
- ⊖ Indicates location of placement of new joint seal.
- [Dotted Box] Indicates patching soffit spalls, locations verified by the Engineer.



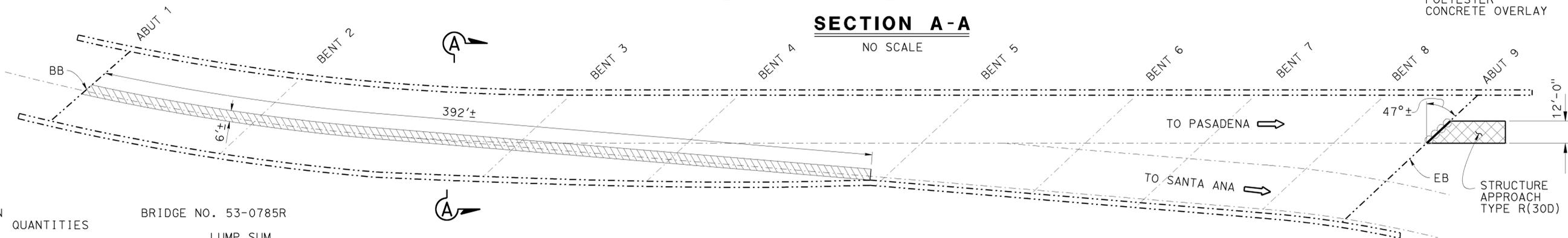
FLORAL DRIVE UC

Br No. 53-1155, Rte 710, PM 25.21  
NO SCALE



SECTION A-A

NO SCALE



ROUTE 710/5 SEPARATION

Br No. 53-0785R, Rte 710, PM 23.19  
NO SCALE



ROUTE 710/5 SEPARATION QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM	
PREPARE CONCRETE BRIDGE DECK SURFACE	2,360	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	295	CF
PLACE POLYESTER CONCRETE OVERLAY	2,360	SQFT
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	18	CY
PAVING NOTCH EXTENSION	10	CF
JOINT SEAL (MR 1 1/2")	14	LF

BRIDGE NO. 53-0785R QUANTITIES

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DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN

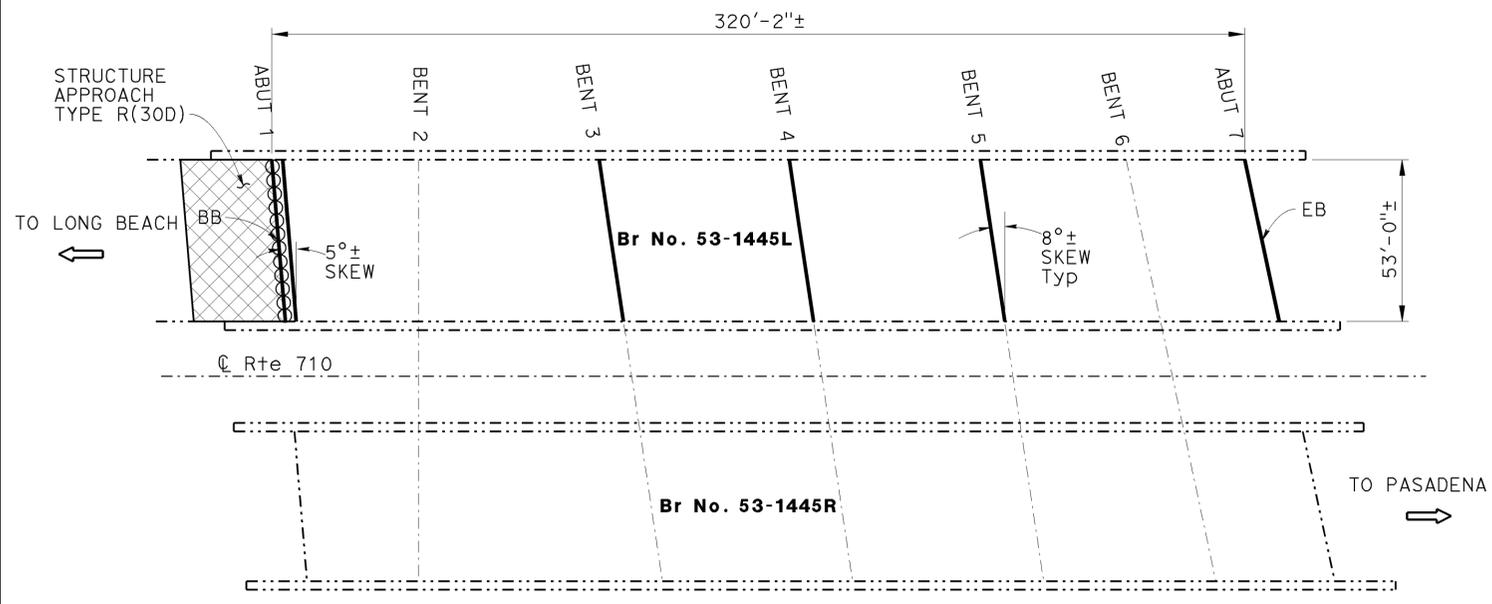
BRIDGE NO. Various  
POST MILE Various

ROUTE 5, 10, 57, 60, 605, 710 BRIDGES

GENERAL PLAN NO. 12

USERNAME => s129239 DATE PLOTTED => 14-MAR-2013 TIME PLOTTED => 09:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	42	48
Edward Li			01/11/13	REGISTERED CIVIL ENGINEER DATE	
4-02-13			PLANS APPROVAL DATE		
No. C56706			Exp. 06/30/13		
EDWARD GUOJUN LI			REGISTERED PROFESSIONAL ENGINEER		
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.					

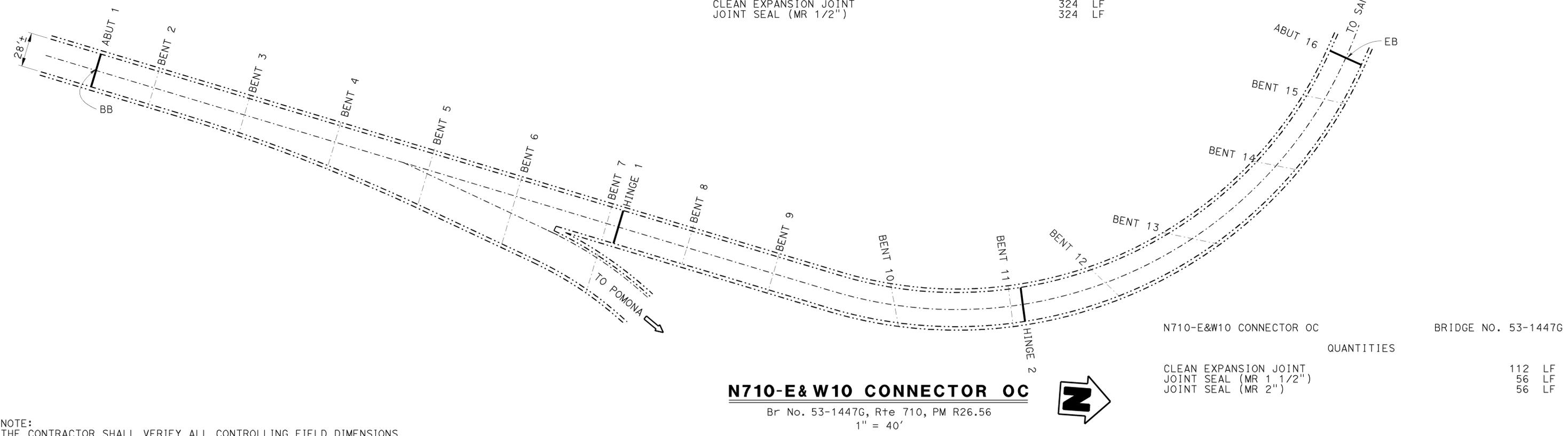


- LEGEND:**
- Indicates existing.
  - ➔ Indicates direction of traffic.
  - ▧ Indicates limits of remove AC roadway and construct new structure approach slabs with paving notch extension.
  - ⊖ Indicates location of placement of new joint seal.

**ROUTE 710/10 SEPARATION**  
 Br No. 53-1445L, Rte 710, PM 26.47  
 1" = 30'

ROUTE 710/10 SEPARATION BRIDGE NO. 53-1445L

QUANTITIES	
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	72 CY
PAVING NOTCH EXTENSION	40 CF
CLEAN EXPANSION JOINT	324 LF
JOINT SEAL (MR 1/2")	324 LF



**N710-E&W10 CONNECTOR OC**  
 Br No. 53-1447G, Rte 710, PM R26.56  
 1" = 40'

N710-E&W10 CONNECTOR OC BRIDGE NO. 53-1447G

QUANTITIES	
CLEAN EXPANSION JOINT	112 LF
JOINT SEAL (MR 1 1/2")	56 LF
JOINT SEAL (MR 2")	56 LF

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QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson
				CHECKED Edward Li
				PLANS AND SPECS COMPARED Kevin Ellingson

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN

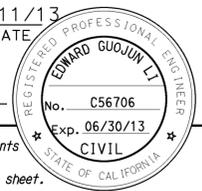
BRIDGE NO. Various

POST MILE Varies

**ROUTE 5, 10, 57, 60, 605, 710 BRIDGES**

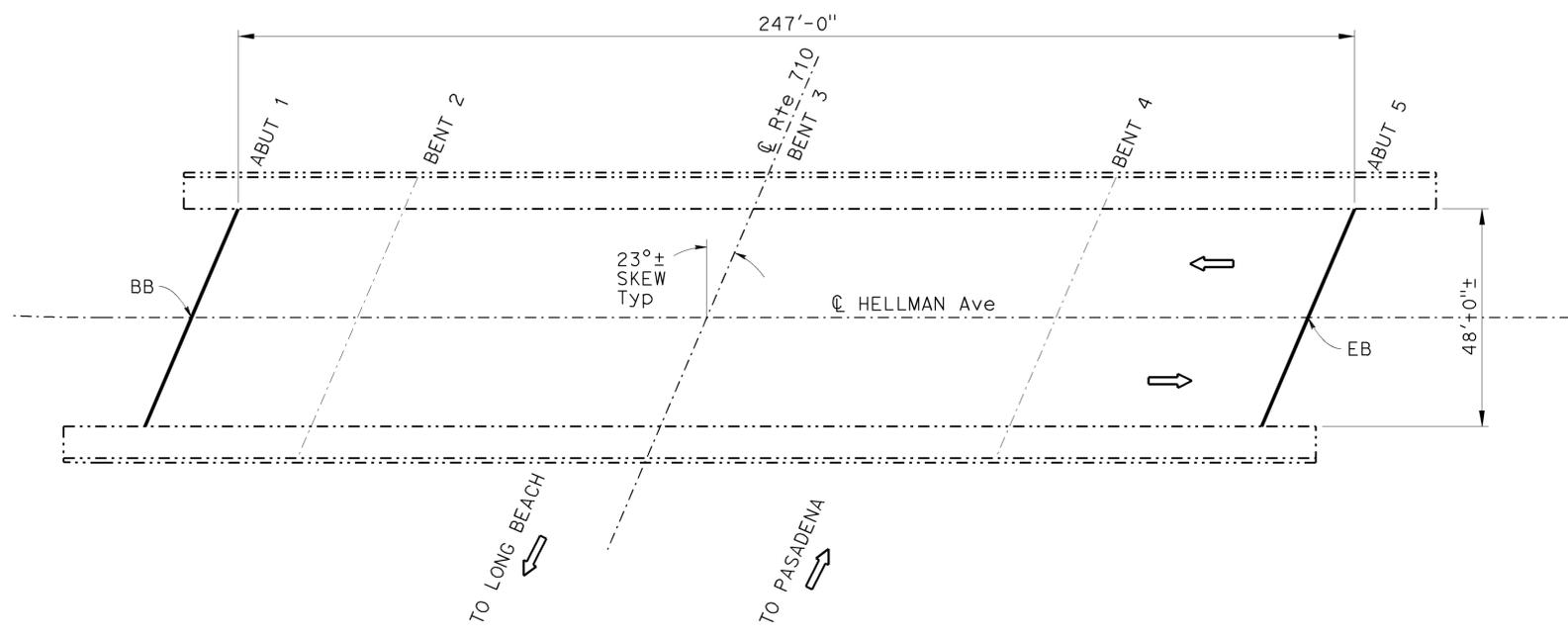
**GENERAL PLAN NO. 13**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	43	48
<i>Edward Li</i> REGISTERED CIVIL ENGINEER			01/11/13	DATE	
4-02-13			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- /— Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch) as directed by the Engineer.



**HELLMAN AVENUE OC**  
 Br No. 53-1708, Rte 710, PM R27.11  
 1" = 20'



HELLMAN AVE OC BRIDGE NO. 53-1708

QUANTITIES	
CLEAN EXPANSION JOINT	104 LF
JOINT SEAL (MR 1")	104 LF

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DESIGN ENGINEER <b>TONY D. BRAKE</b>	DESIGN	BY Edward Li	CHECKED Gerald Joo	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
	QUANTITIES	BY Edward Li	CHECKED Gerald Joo	SPECIFICATIONS	BY Kevin Ellingson

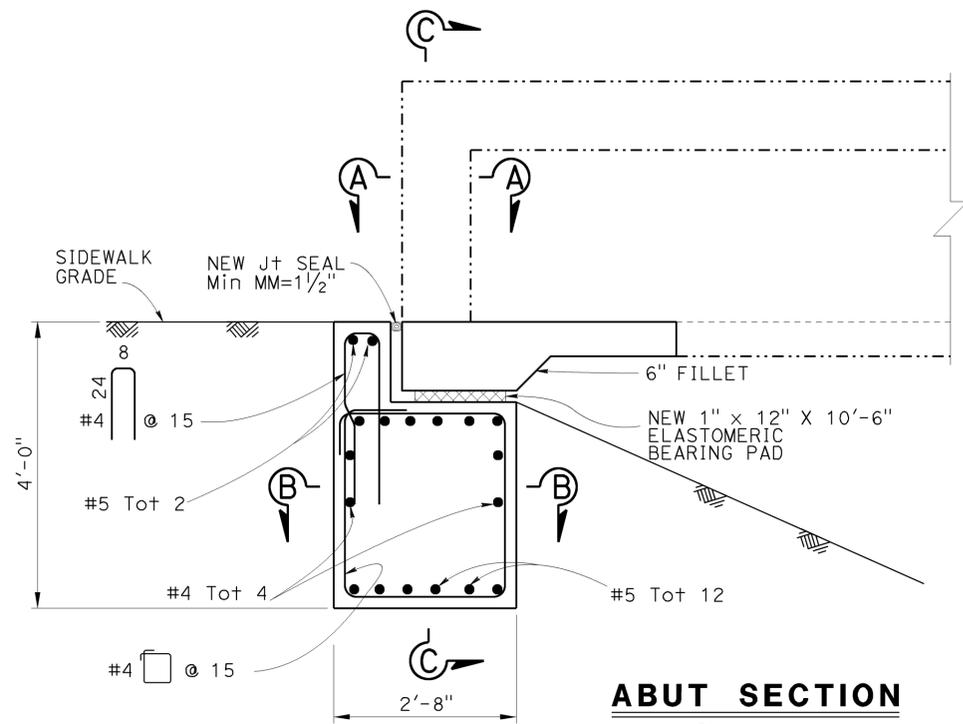
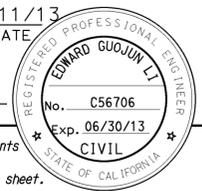
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

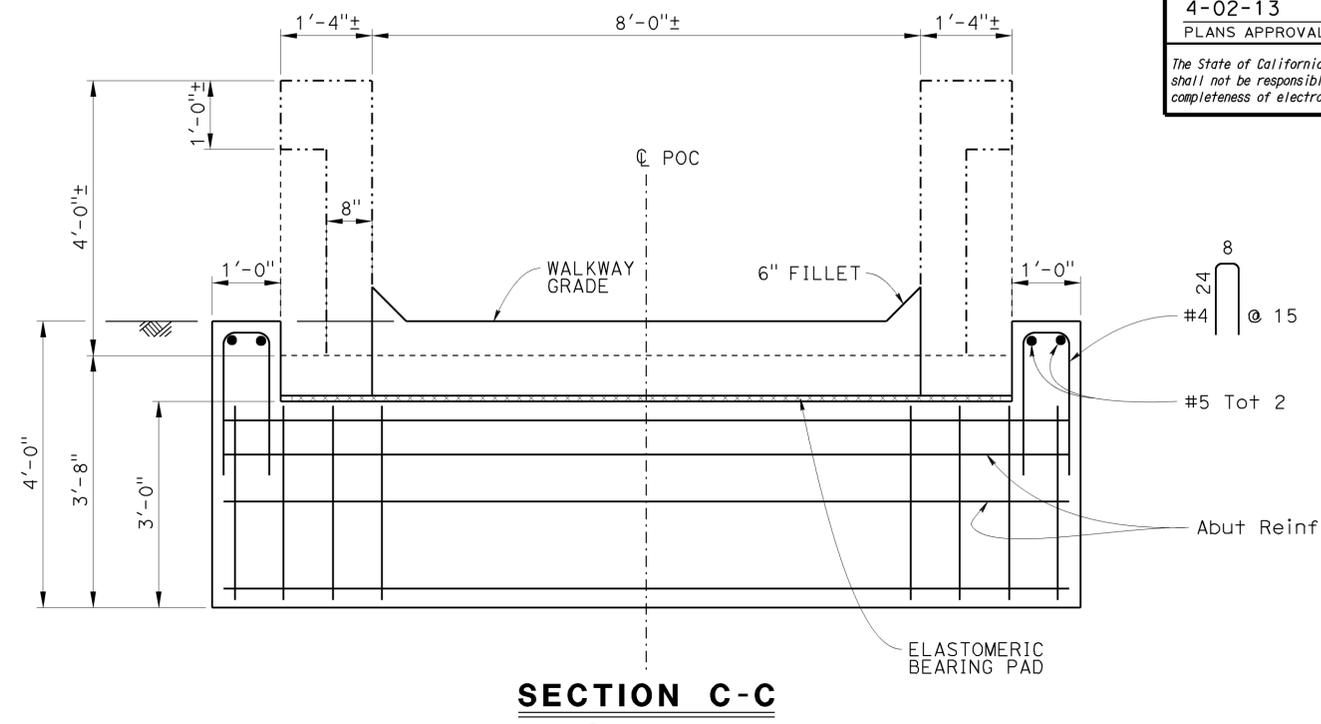
BRIDGE NO. Various  
 POST MILE Varies  
**ROUTE 5, 10, 57, 60, 605, 710 BRIDGES**  
**GENERAL PLAN NO. 14**

USERNAME => s129239 DATE PLOTTED => 14-MAR-2013 TIME PLOTTED => 09:23  
 FILE => 07-1w2801.dgn

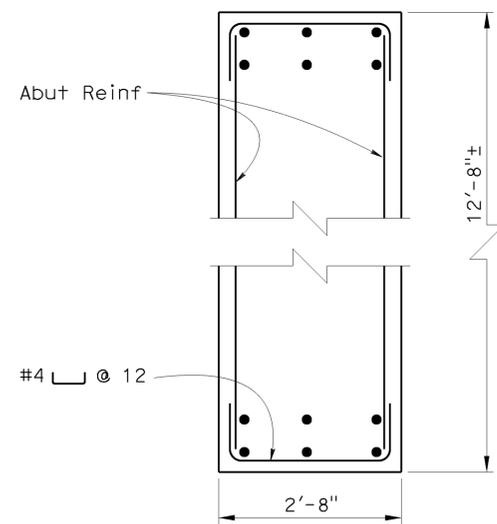
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	44	48
Edward Li			01/11/13	REGISTERED CIVIL ENGINEER DATE	
4-02-13			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



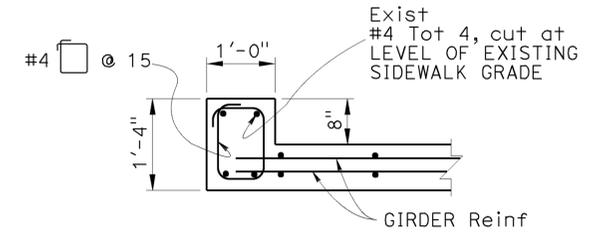
**ABUT SECTION**  
 $\frac{3}{4}'' = 1'-0''$   
 (ABUT 1 SHOWN, ABUT 5 SIMILAR)



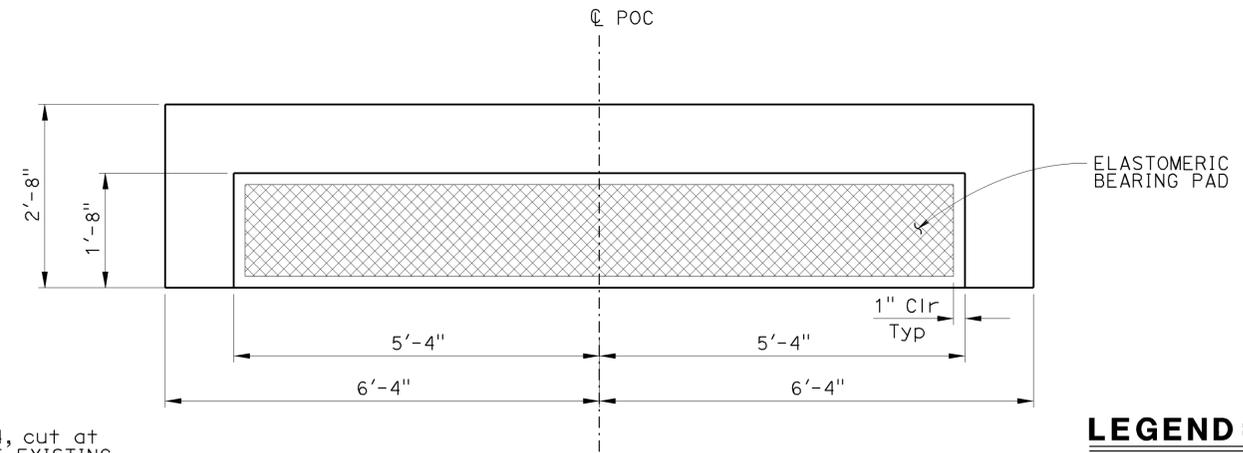
**SECTION C-C**  
 $\frac{3}{4}'' = 1'-0''$   
 (ABUT 1 SHOWN, ABUT 5 SIMILAR)



**SECTION B-B**  
 $\frac{3}{4}'' = 1'-0''$   
 (ABUT 1 SHOWN, ABUT 5 SIMILAR)



**SECTION A-A**  
 $\frac{3}{4}'' = 1'-0''$   
 (ABUT 1 SHOWN, ABUT 5 SIMILAR)



**ABUTMENT PLAN VIEW**  
 $\frac{3}{4}'' = 1'-0''$   
 (ABUT 1 SHOWN, ABUT 5 SIMILAR)

- LEGEND:**
- Indicates existing.
  - ⇒ Indicates direction of traffic.
  - Indicates reconstruction.

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TONY D. BRAKE  
 DESIGN ENGINEER

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DETAILS	BY Tom Dang	CHECKED Edward Li
QUANTITIES	BY Edward Li	CHECKED Gerald Joo

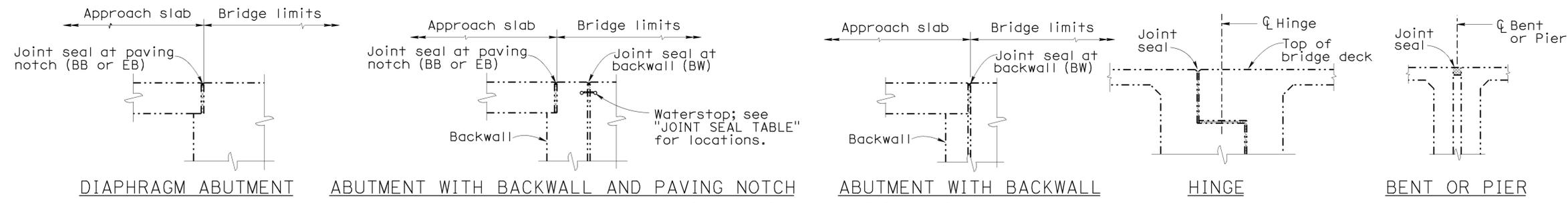
LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY Tom Dang
SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

**MARIANNA AVENUE POC (Br No. 53-0774)**  
**ROUTE 5, 10, 57, 60, 605, 710 BRIDGES**  
**ABUTMENT DETAILS**



**JOINT SEAL LOCATION**

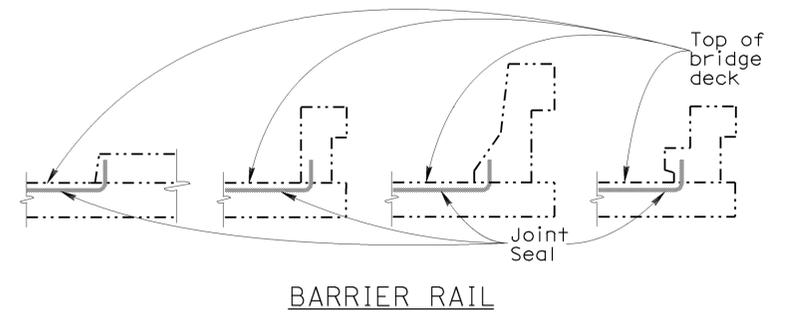
NO SCALE

JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCH)	APPROX LENGTH (LF)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCH)
		ABUT	PN				
OUTER W CONNECTOR OC (W10-S5)	53-1331F	ABUT 1	PN	1/2	39	NO	12
		ABUT 1	BW	1 1/2	39	NO	12
		ABUT 5	BW	1 1/2	39	NO	12
		ABUT 5	PN	1/2	39	NO	12
SAN GABRIEL RIVER	53-0109L	ABUT 1L	BW	1 1/2	106	NO	12
		HINGE 1L	-	1 1/2	108	NO	12
		HINGE 2L	-	1 1/2	113	NO	12
		HINGE 3L	-	1 1/2	117	NO	12
		ABUT 13L	BW	1 1/2	123	NO	12
W10-S57 CONNECTOR OC	53-2007F	ABUT 1	PN	1/2	51	NO	--
		HINGE	-	2 1/2	39	NO	12
		ABUT 8	PN	1/2	39	NO	--
WHITE AVENUE UC	53-0853	ABUT 1	PN	1/2	165	NO	12
		ABUT 2	PN	1/2	165	NO	12
COLD SPRING LANE UC	53-2163	ABUT 1	BW	1 1/2	156	NO	12
		ABUT 2	BW	1 1/2	156	NO	12
S57-E10 CONNECTOR OC	53-2001F	ABUT 1	PN	1/2	43	NO	12
		ABUT 2	PN	1/2	43	NO	12
MARIANNA AVENUE POC	53-0774	ABUT 1	BW	1 1/2	11	NO	--
		ABUT 6	BW	1 1/2	11	NO	--
FLORAL DRIVE UC	53-1155	ABUT 1	PN	1 1/2	118	NO	12
		ABUT 2	PN	1 1/2	118	NO	12
RTE 710/5 SEPARATION	53-0785R	ABUT 9	PN	1/2	14	NO	--
RTE 710/10 SEPARATION	53-1445L	ABUT 1	PN	1/2	54	NO	12
		ABUT 1	BW	1/2	54	NO	12
		BENT 3	-	1/2	54	NO	12
		BENT 4	-	1/2	54	NO	12
		BENT 5	-	1/2	54	NO	12
N710-E&W10 CONNECTOR OC	53-1447G	ABUT 1	BW	1 1/2	28	NO	12
		HINGE 1	-	2	28	NO	12
		HINGE 2	-	2	28	NO	12
		ABUT 16	BW	1 1/2	28	NO	12
HELLMAN AVENUE OC	53-1708	ABUT 1	BW	1	52	NO	12
		ABUT 5	BW	1	52	NO	12

PN = Paving notch  
 BW = Backwall  
 AL = Longitudinal Deck Joint

**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 B6-21 sheet.
- The following notes apply to JOINT SEAL TYPE B:
- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
  - 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.
  - W1 shall be the smaller of the values determined as follows:
    - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
    - 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.
  - Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
- For details not shown see B6-21 sheet.



**JOINT SEAL AT LOW SIDE OF DECK**

Note: Details shown for illustration purposes only.  
 For use only where deck joint matches the sidewalk, curb or barrier rail joint.

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DESIGN	BY Edward Li	CHECKED Gerald Joo
DETAILS	BY Tom Dang	CHECKED Edward Li
QUANTITIES	BY Edward LI	CHECKED Gerald Joo

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
**STRUCTURE MAINTENANCE DESIGN**

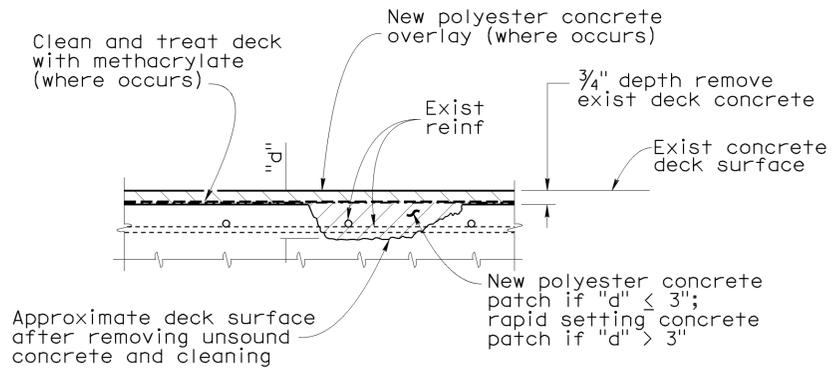
BRIDGE NO.	Various
POST MILE	Varies

**ROUTE 5, 10, 57, 60, 605, 710 BRIDGES**  
**MISCELLANEOUS DETAILS NO. 1**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	46	48
Edward Li REGISTERED CIVIL ENGINEER			01/11/13 DATE		
4-02-13			PLANS APPROVAL DATE		
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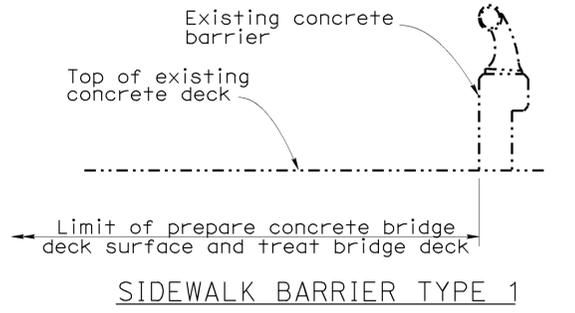
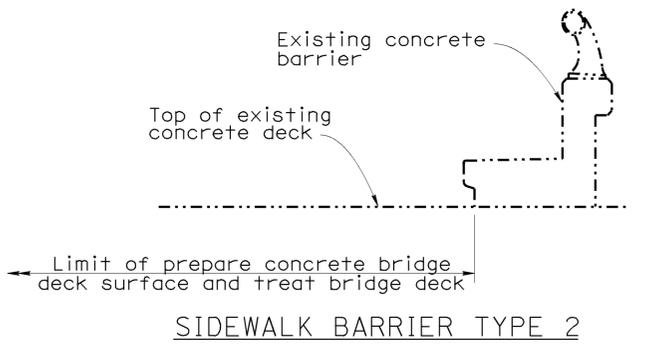
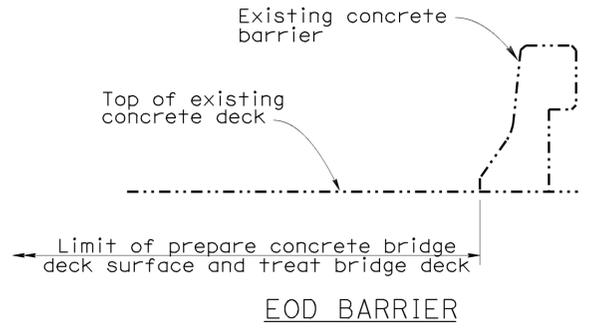
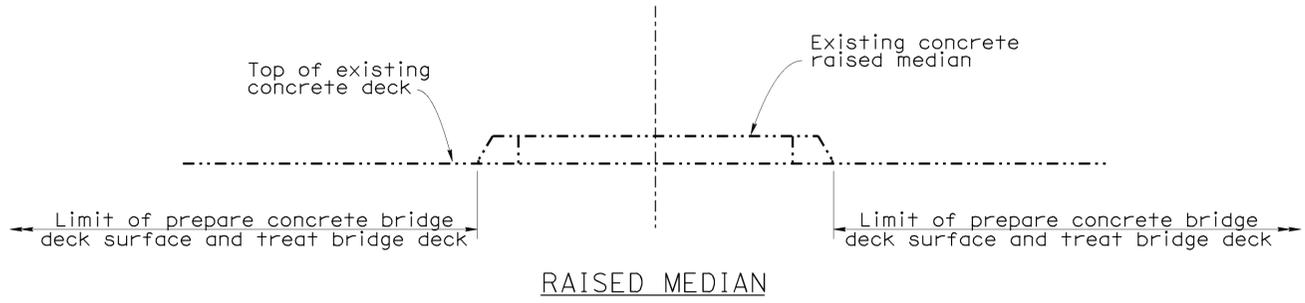
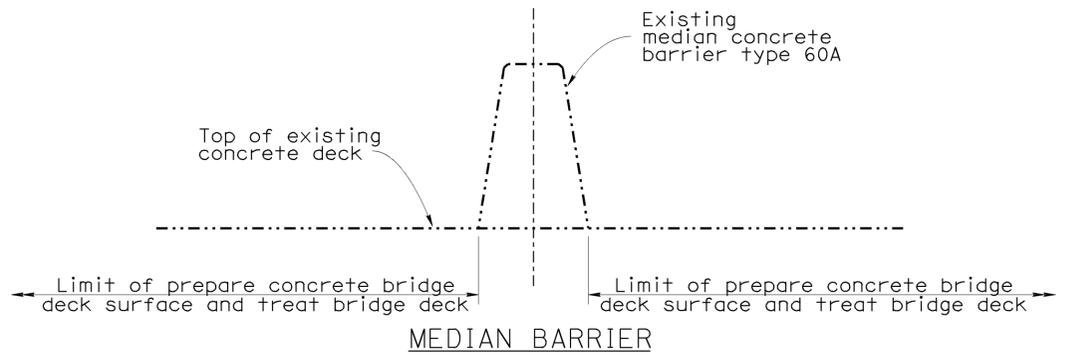
**NOTES:**

- 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 cover over the top steel reinforcing bars, whichever is less.
- Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.



**DECK REPAIR DETAIL**

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



**TYPICAL LIMITS OF DECK WORK**

NO SCALE

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

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Edward Li	CHECKED Gerald Joo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5, 10, 57, 60, 605, 710 BRIDGES			
	DETAILS	BY Tom Dang	CHECKED Edward Li			Various				
	QUANTITIES	BY Edward LI	CHECKED Gerald Joo			Varies				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3489 PROJECT NUMBER & PHASE: 07000212301	CONTRACT NO.: 07-1W2804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 17 OF 19

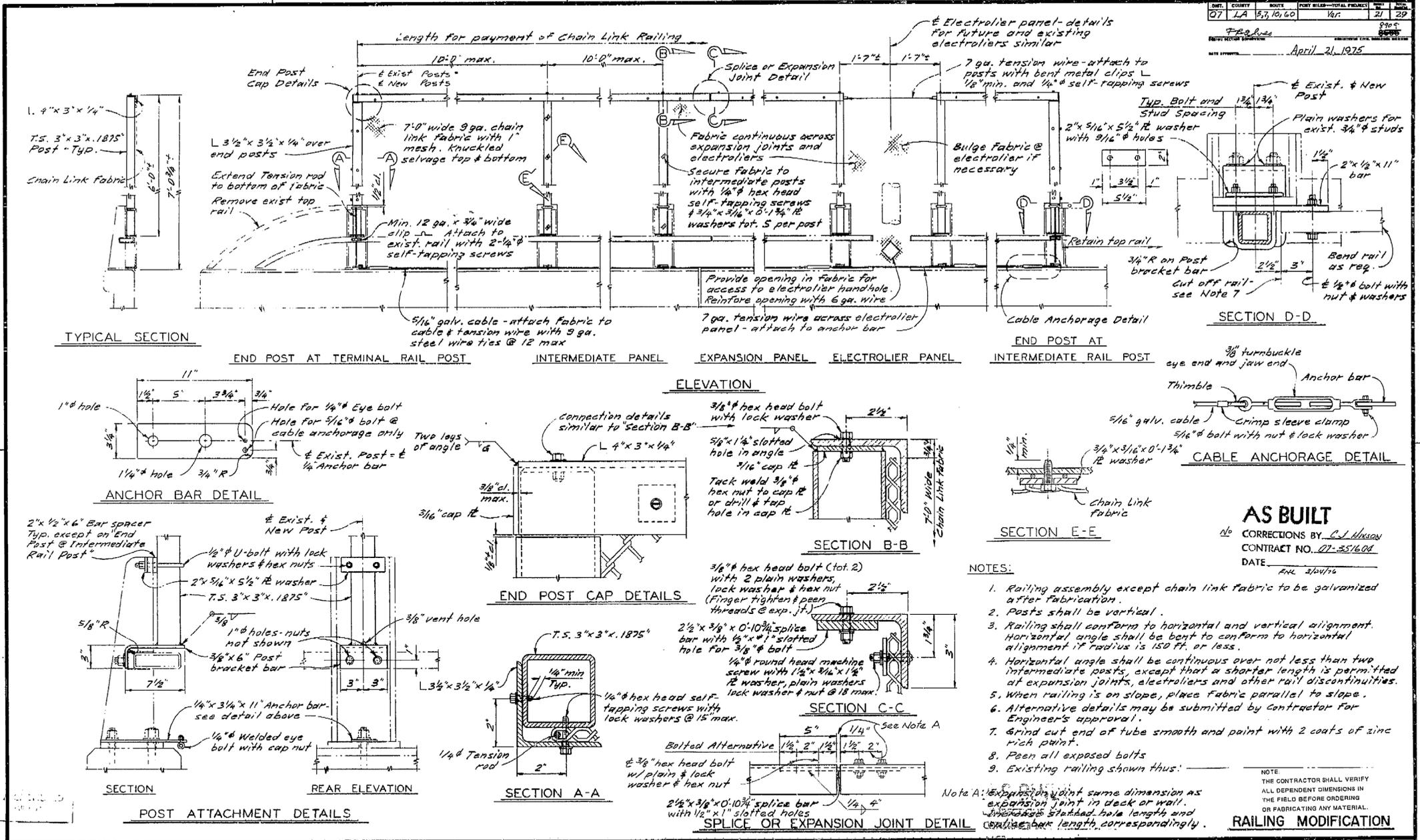
USERNAME => s1292939 DATE PLOTTED => 14-MAR-2013 TIME PLOTTED => 09:26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,57,60,605,710	Var	47	48

Edward Li 01/11/13  
REGISTERED CIVIL ENGINEER DATE

4-02-13  
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.



**AS BUILT**  
No CORRECTIONS BY *Ed Li*  
CONTRACT NO. 07-351604  
DATE *Apr 26/13*

- NOTES:**
- Railing assembly except chain link fabric to be galvanized after fabrication.
  - Posts shall be vertical.
  - Railing shall conform to horizontal and vertical alignment. Horizontal angle shall be bent to conform to horizontal alignment if radius is 150 FT. or less.
  - Horizontal angle shall be continuous over not less than two intermediate posts, except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
  - When railing is on slope, place fabric parallel to slope.
  - Alternative details may be submitted by Contractor for Engineer's approval.
  - Grind cut end of tube smooth and paint with 2 coats of zinc rich paint.
  - Peen all exposed bolts.
  - Existing railing shown thus:
- Note A: Expansion joint same dimension as expansion joint in deck or wall. Slotted hole length and splice bar length correspondingly.

① Existing Type 9-11 on 11 (8-27-73)

**AS BUILT PLANS**  
Contract No. 07-351604  
Date Completed \_\_\_\_\_  
Document No. 20007371

DESIGN BY: M. Pohl 10-72 KE	CHECKED: E. Lea 11-8-73	BRIDGE NO.: 53-851	BRIDGE NAME: DUDLEY STREET OVERCROSSING
DETAILS BY: K. Endow 3/73	CHECKED: A. Hanks 8-73	POST MILE: 44.2	BRIDGE TYPE: CHAIN LINK RAILING DETAILS
QUANTITIES BY: Sot 7/24	CHECKED: T. Nakamura 5-74	PROJECT ENGINEER: T. Nakamura	REVISION DATES (PRELIMINARY STAGE ONLY)

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION  
CU 07353 WO 351604  
Disregard prints bearing earlier revision dates

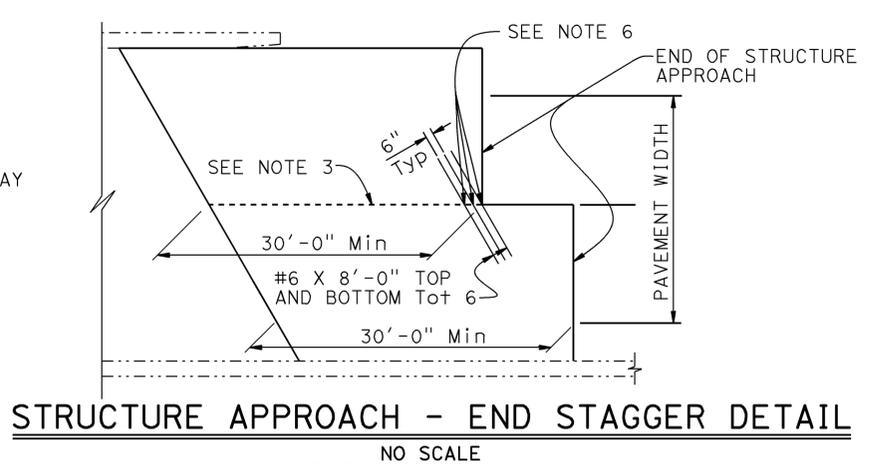
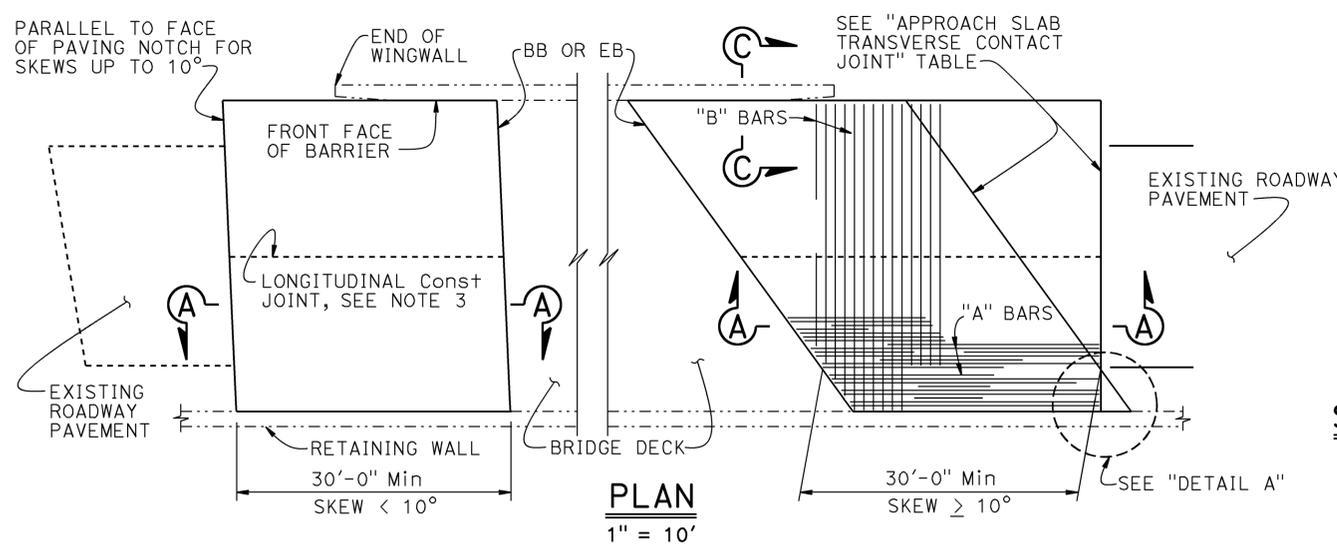
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAVERN UNDER MY DIRECTION AND CONTROL, ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.  
DATE: 5/30/13  
SIGNATURE: *Edward Li*

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

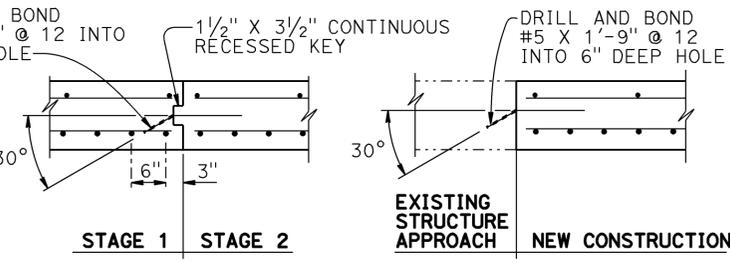
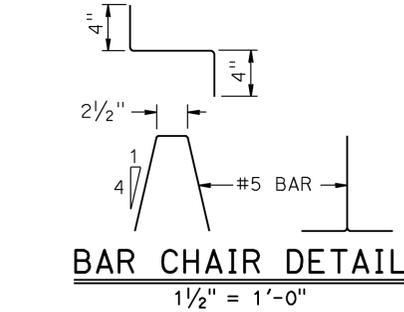
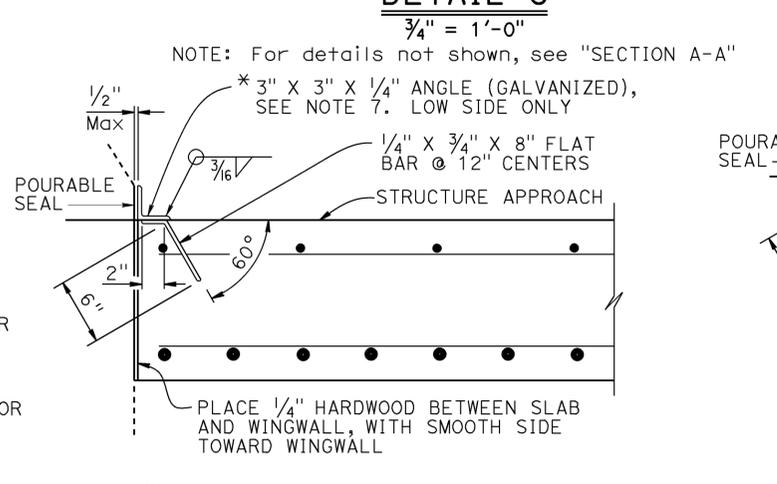
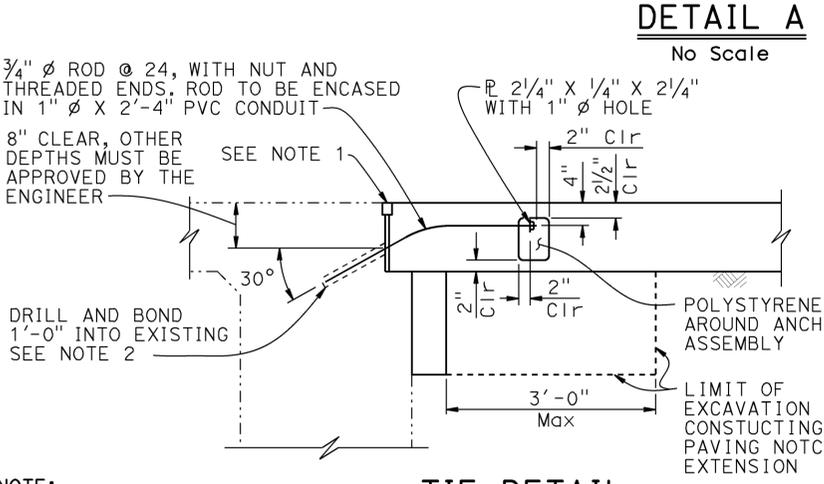
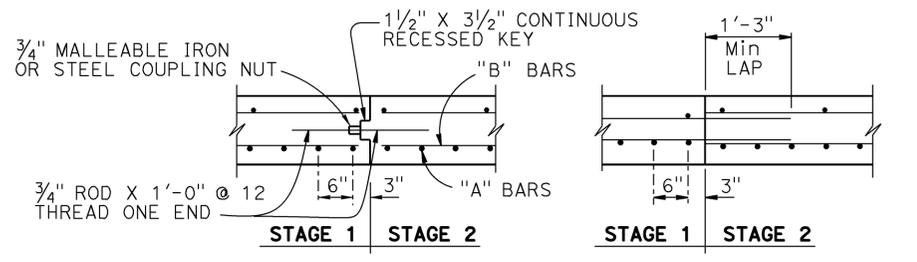
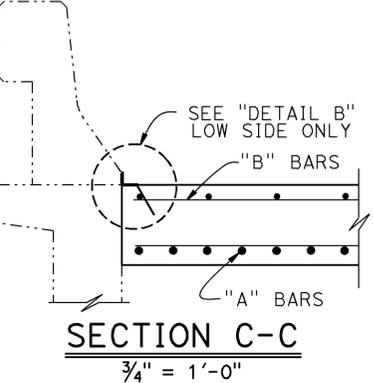
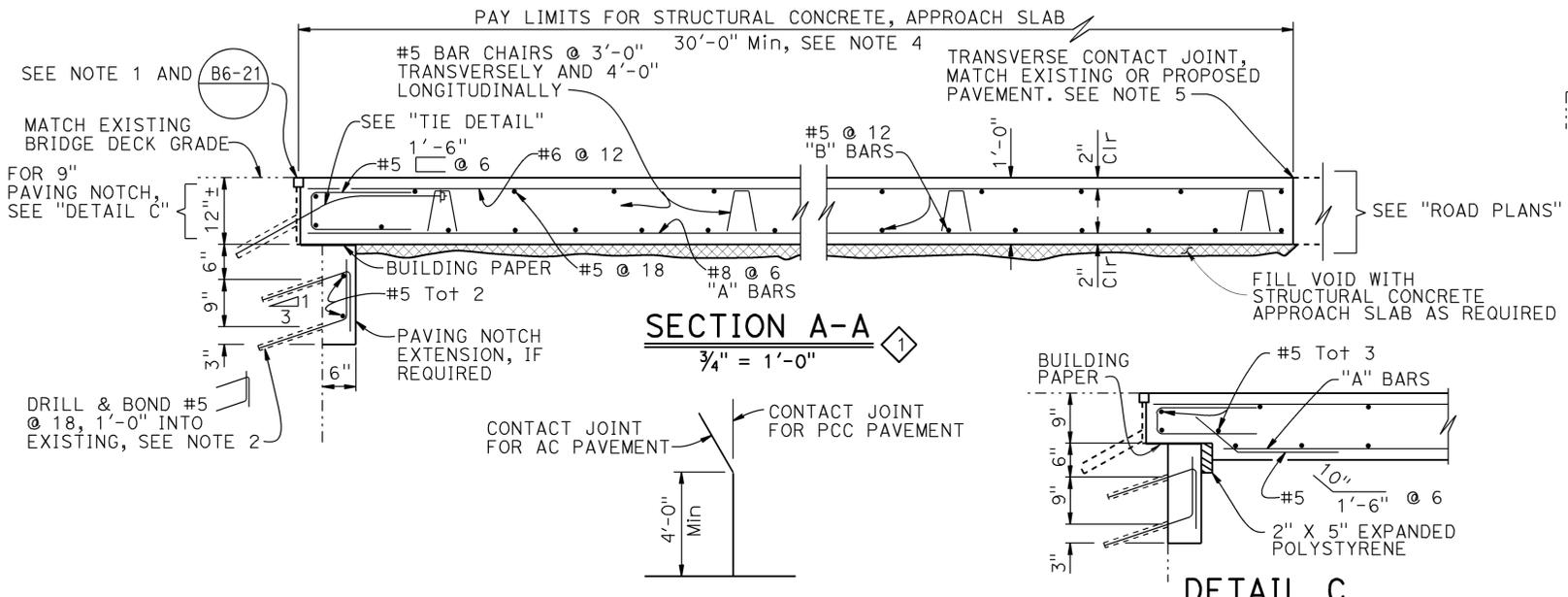
**FOR INFORMATIONAL USE ONLY**

DESIGN BY: Edward Li	CHECKED: Gerald Joo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.: 53-0851	ROUTE 5, 10, 57, 60, 605, 710 BRIDGES
DETAILS BY: Tom Dang	CHECKED: Edward Li			POST MILE: 44.19	CHAIN LINK RAILING DETAILS (AS-BUILT)
QUANTITIES BY: Edward Li	CHECKED: Gerald Joo				

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)  
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
UNIT: 3489  
PROJECT NUMBER & PHASE: 07000212301  
CONTRACT NO.: 07-1W2804  
DISREGARD PRINTS BEARING EARLIER REVISION DATES



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



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

- 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

REVISED STANDARD DRAWING  
 FILE NO. **xs3-150**  
 APPROVAL DATE July 2011

REVISIONS  
 1 REVISED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES

BRIDGE NO. Various  
 POST MILE Varies  
**ROUTE 5, 10, 57, 60, 605, 710 BRIDGES**  
**STRUCTURE APPROACH TYPE R(30D)**