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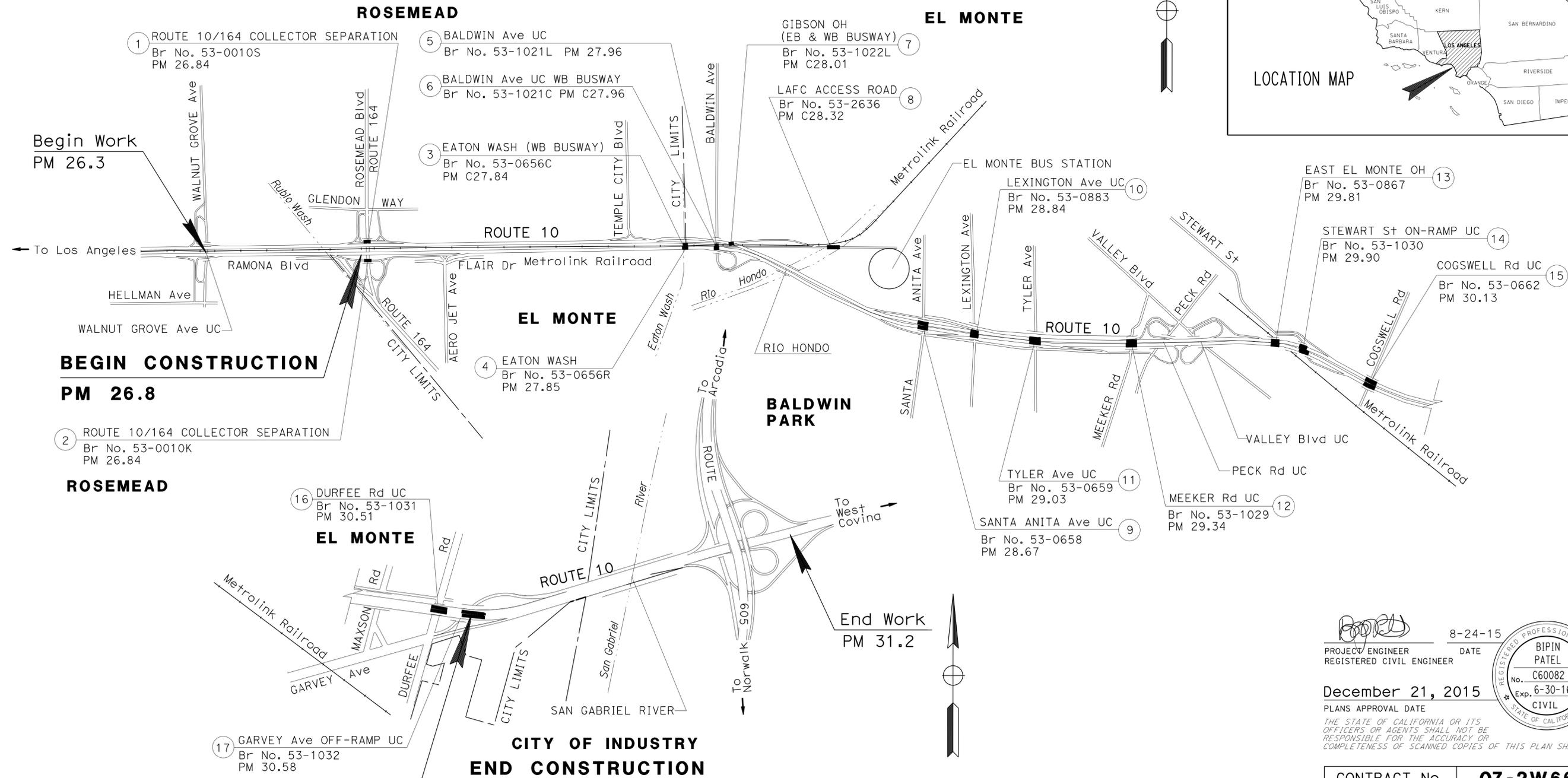
STRUCTURE PLANS

27-38	ROUTE 10 BRIDGES
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

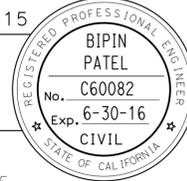
STATE OF CALIFORNIA **ACNHPI-010-1(832)E**  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN LOS ANGELES COUNTY**  
**IN ROSEMEAD AND EL MONTE**  
**FROM ROUTE 10/164 SEPARATION**  
**TO GARVEY AVENUE OFF RAMP UNDERCROSSING**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER: OJAS SHETH  
 DESIGN MANAGER: LARRY WIERING

8-24-15  
 PROJECT ENGINEER REGISTERED CIVIL ENGINEER DATE  
**December 21, 2015**  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONTRACT No.	<b>07-2W6604</b>
PROJECT ID	<b>0713000449</b>

LAST REVISION: 12-21-15  
 DATE PLOTTED => 24-MAY-2016  
 TIME PLOTTED => 16:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	2	38

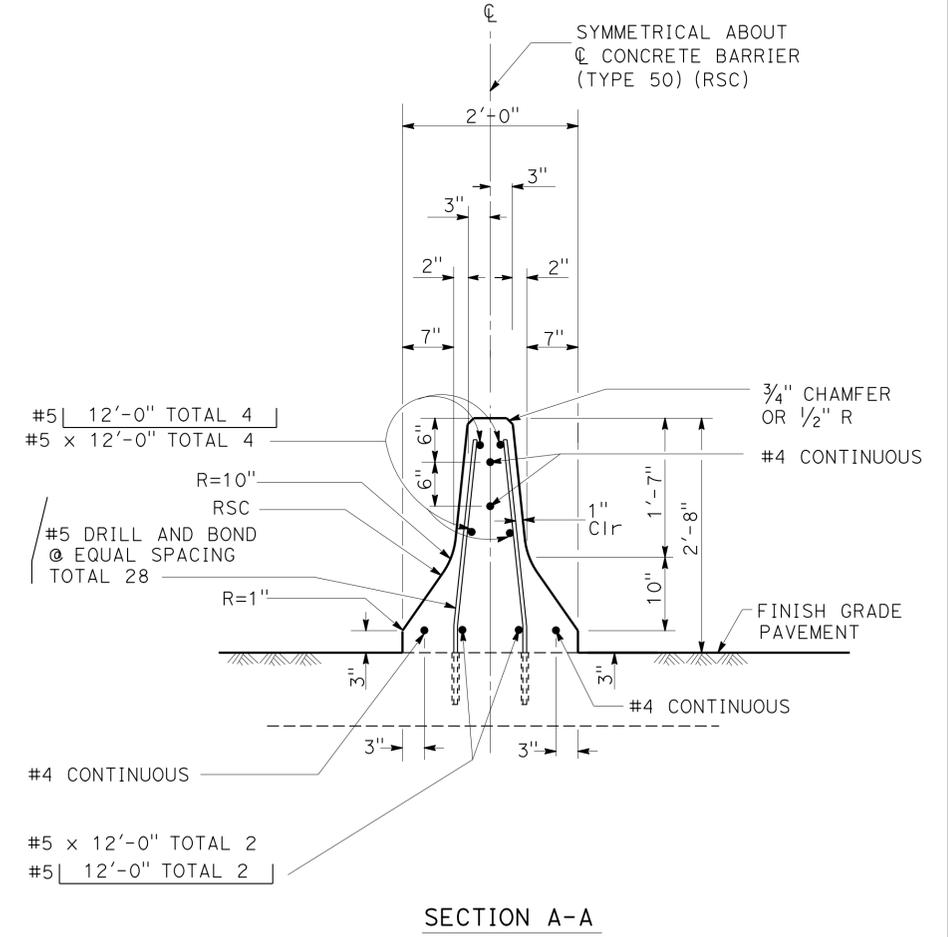
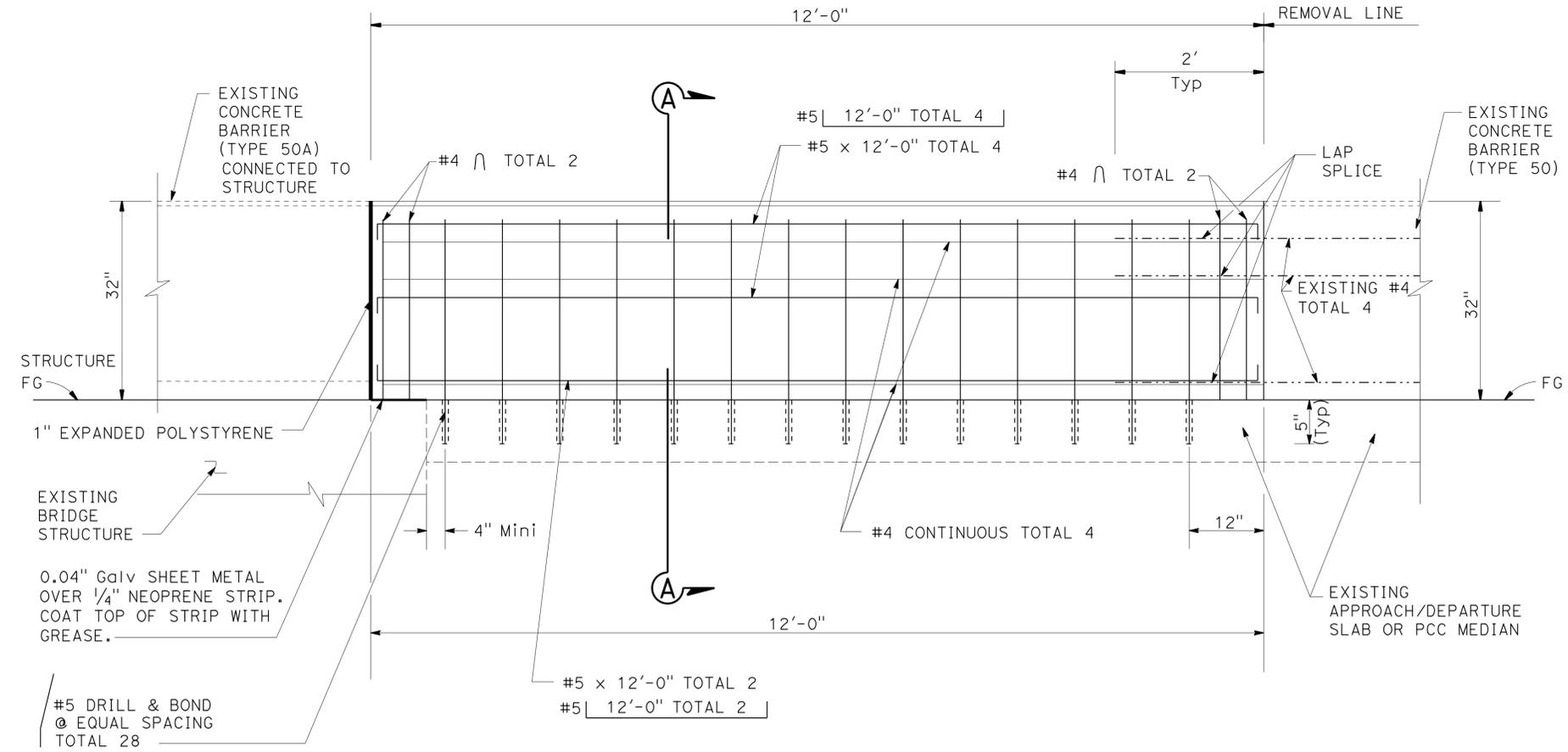
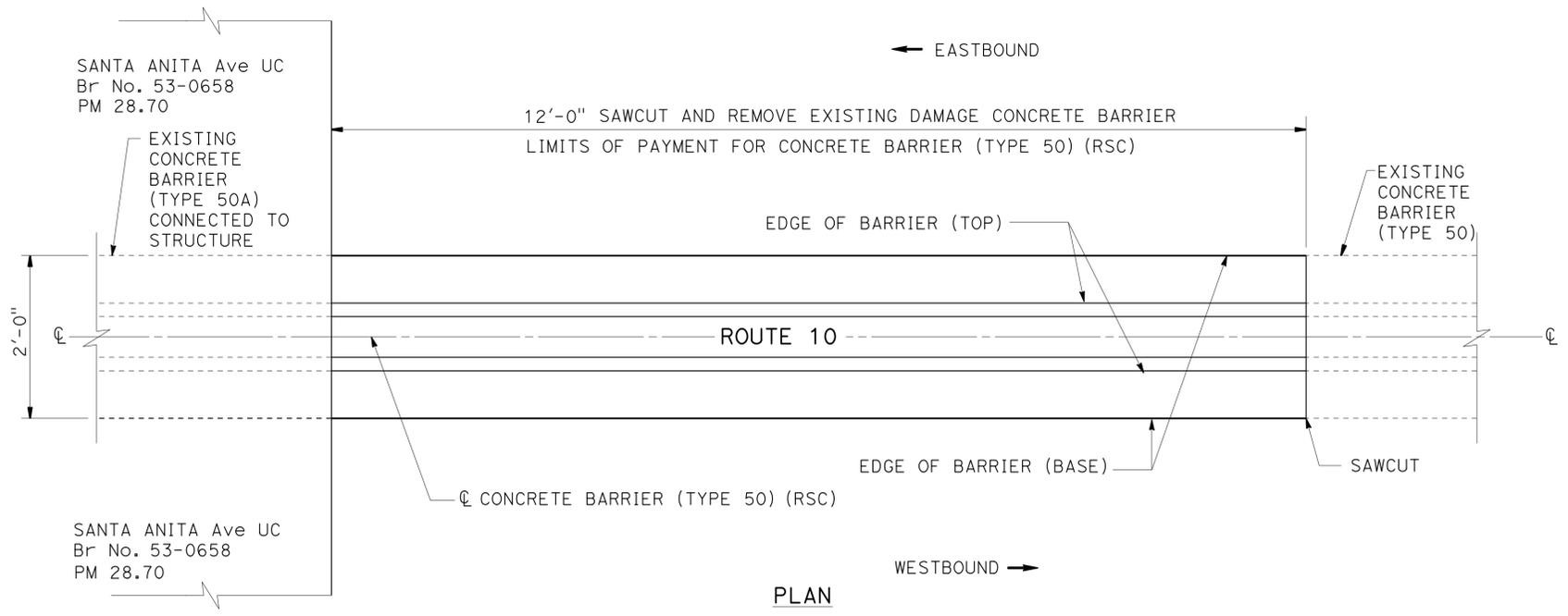
  

REGISTERED CIVIL ENGINEER	DATE
8-24-15	
12-21-15	PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
BIPIN PATEL
No. C60082
Exp. 06-30-16
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.



ELEVATION

**CONSTRUCTION DETAILS**

NO SCALE

**DETAIL CONCRETE BARRIER (TYPE 50) (RSC)**

**C-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING

REVISOR: BIPIN PATEL, LARRY WIERING

DATE: 8-24-15, 12-21-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	3	38

8-24-15  
 REGISTERED CIVIL ENGINEER DATE  
 BIPIN PATEL  
 No. C60082  
 Exp. 06-30-16  
 CIVIL  
 STATE OF CALIFORNIA

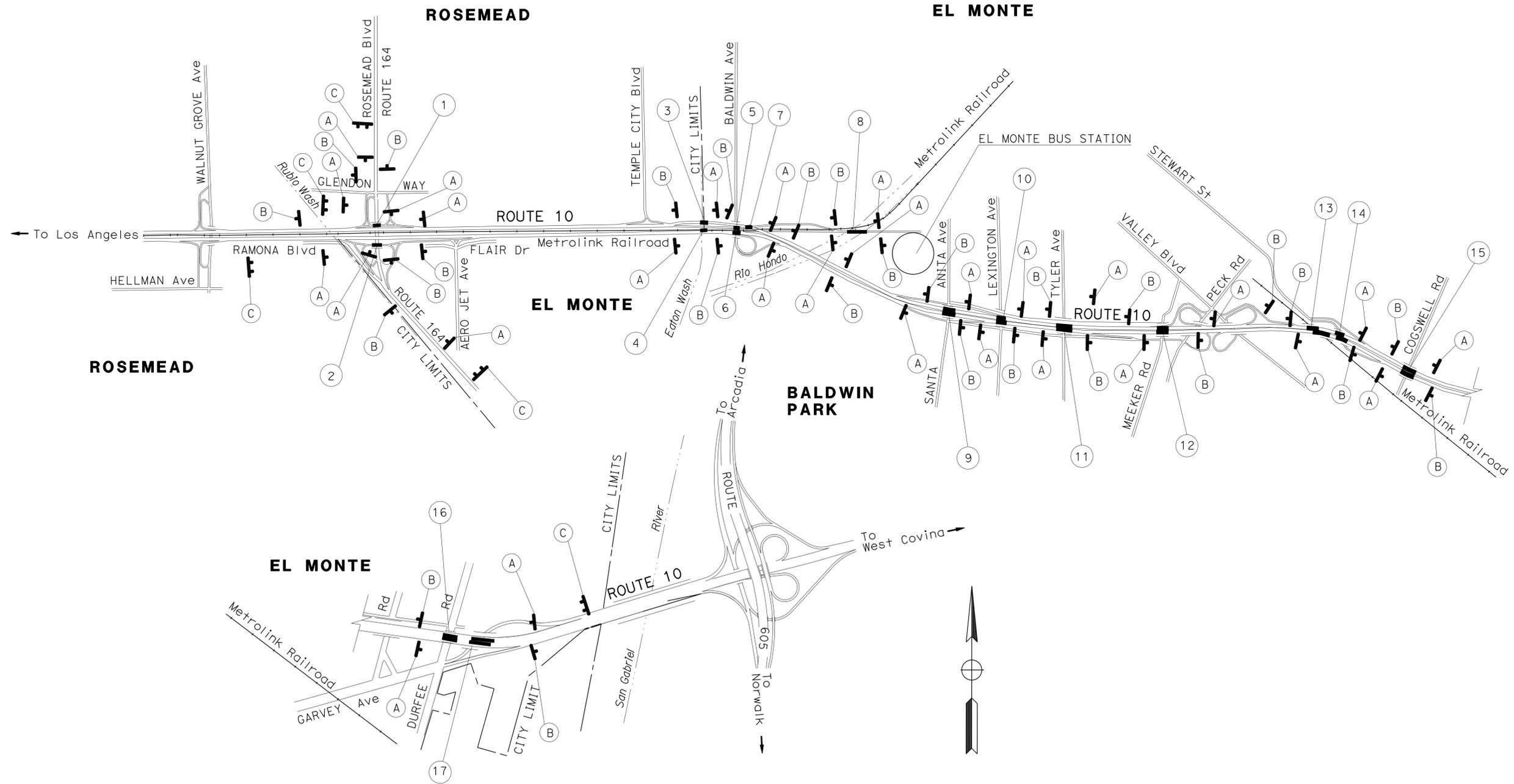
12-21-15  
 PLANS APPROVAL DATE

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

**NOTE:**

THE ENGINEER DETERMINES THE EXACT LOCATION OF CONSTRUCTION AREA SIGNS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS						
SIGN No. (X)	FEDERAL	CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	28
B	G20-2		48" x 24"	END ROAD WORK	1 - 4" x 6"	27
C		C40(CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	5



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

**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

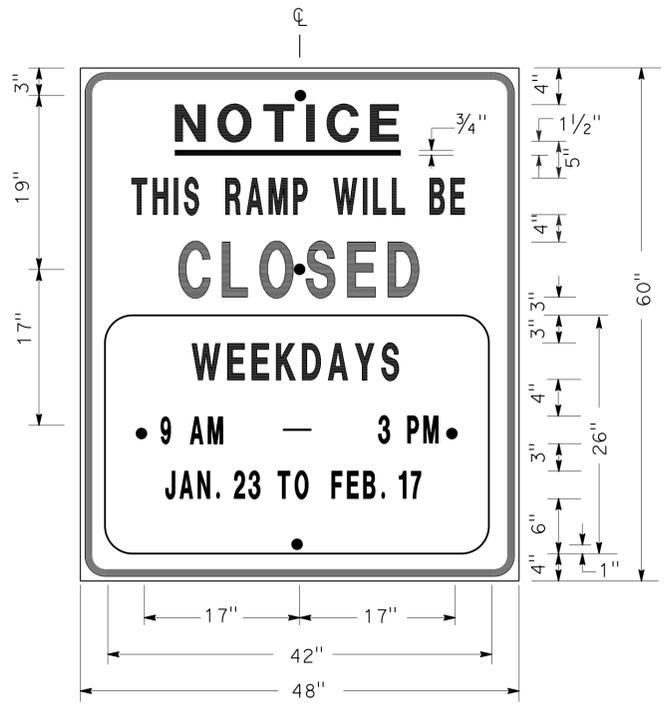
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	4	38

Ali Bamshad 8-27-15  
 REGISTERED CIVIL ENGINEER DATE

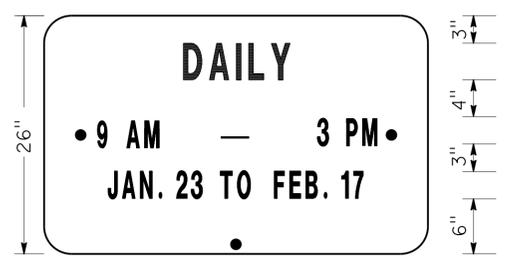
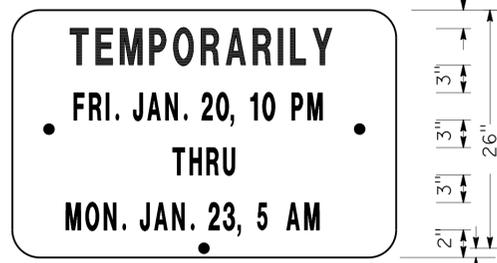
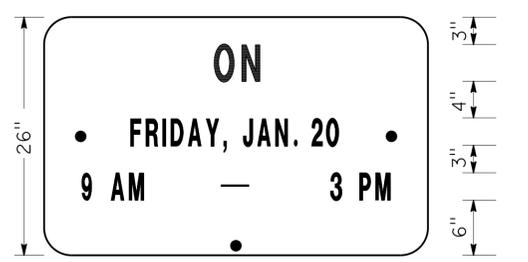
12-21-15  
 PLANS APPROVAL DATE

ALI R. BAMSHAD  
 No. C48134  
 Exp. 6-30-16  
 CIVIL  
 STATE OF CALIFORNIA

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



SIGN SP-1



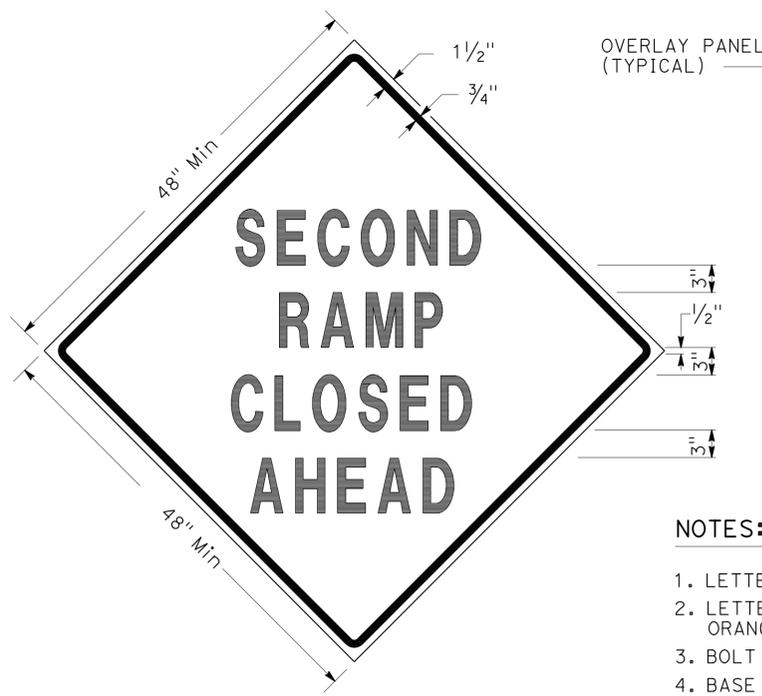
ALTERNATE OVERLAY PANELS (TYPICAL)

- NOTES: SIGN SP-1
- LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
  - BOLT HOLES MUST BE 3/8" DIAMETER.
  - BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
  - SIGNS MUST 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 MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
  - BOLT HOLES MUST BE 3/8" DIAMETER.
  - BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
  - SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.
  - SIGN SP-5 MUST 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 MUST BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
  - BOLT HOLES MUST BE 3/8" DIAMETER.
  - BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
  - SIGNS MUST BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH REVISED STANDARD PLAN RSP T14.

**SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES**

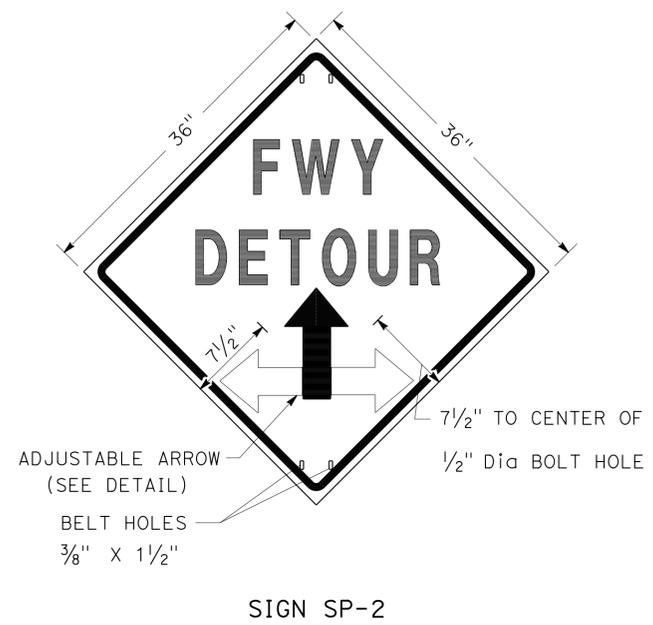
**TRAFFIC HANDLING DETAILS  
 TRAFFIC CONTROL SYSTEM  
 FOR RAMP CLOSURES, DETOUR SIGNS,  
 AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

NO SCALE

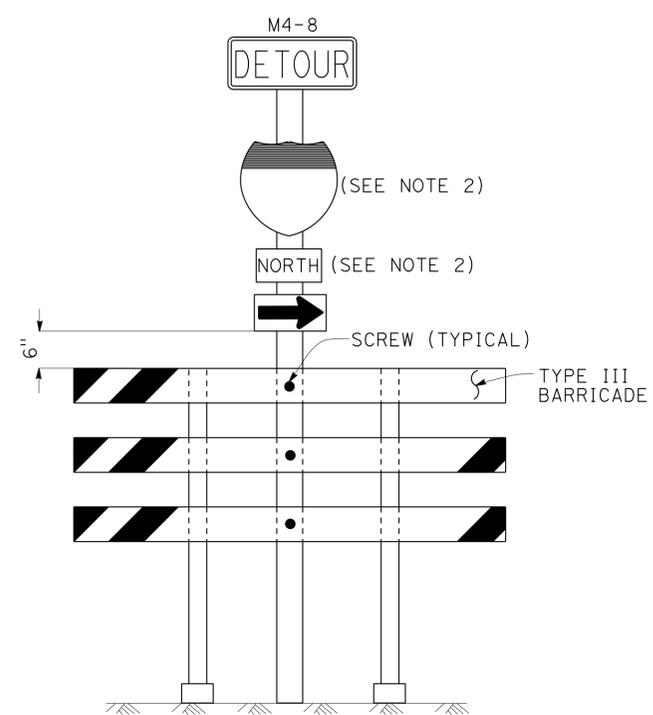
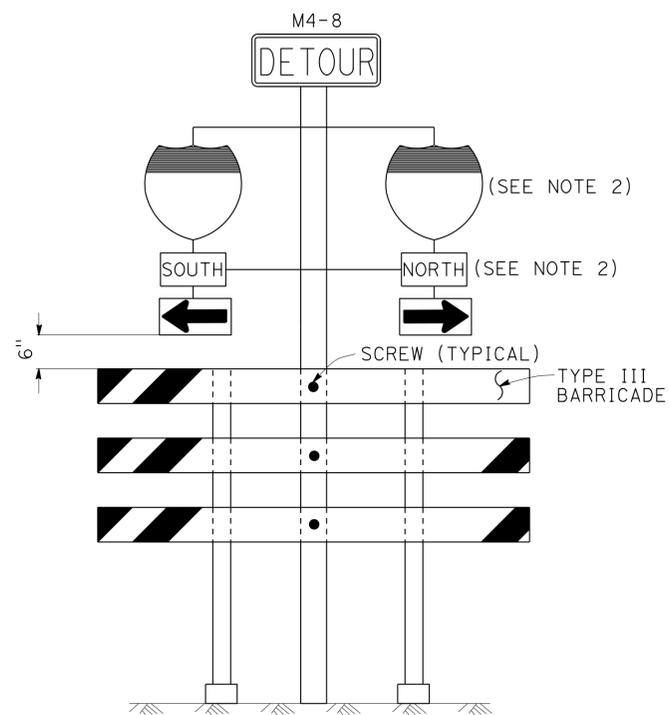
THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTM  
 FUNCTIONAL SUPERVISOR  
 ALI BAMSHAD  
 CHECKED BY  
 JOCELYN C CHIANG  
 REVISIONS  
 JC 2/14  
 REVISED BY  
 DATE REVISED



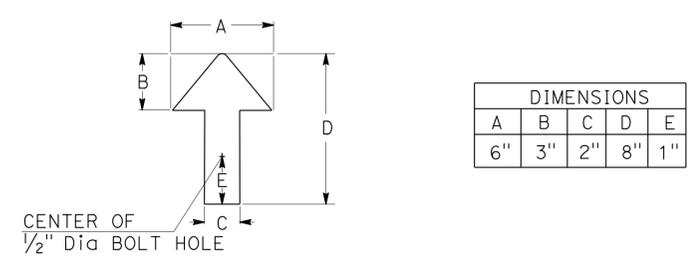
- NOTES:** SIGN SP-2
- LETTERS - 6" SERIES E.
  - LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
  - BASE MATERIAL FOR SIGNS AND ARROWS MUST BE ALUMINUM (MINIMUM 0.06").
  - BELTS (LUGGAGE STRAPS) MUST BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
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



**ADJUSTABLE ARROW DETAIL**

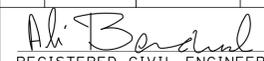
**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR RAMP CLOSURES, DETOUR SIGNS,**  
**AND MISCELLANEOUS DETAILS**  
**SHEET 2 OF 2**  
 NO SCALE

**THD-2**

LAST REVISION | DATE PLOTTED => 27-JAN-2016  
 12-21-15 | TIME PLOTTED => 1:3:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	6	38

 REGISTERED CIVIL ENGINEER	8-27-15 DATE
12-21-15 PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL <b>ALI R. BAMSHAD</b> No. C48134 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA
--

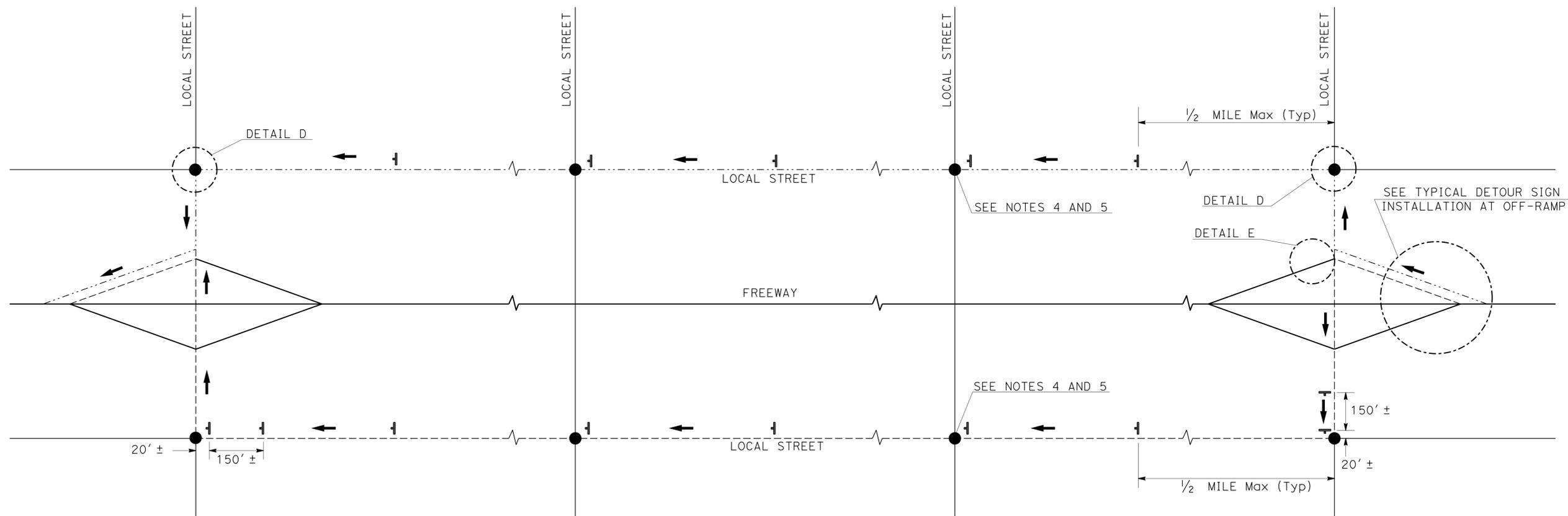
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**LEGEND**

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

**NOTES:**

- SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
- SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
- SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
- SP-2 SIGNS MUST 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 MUST 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 3**

NO SCALE

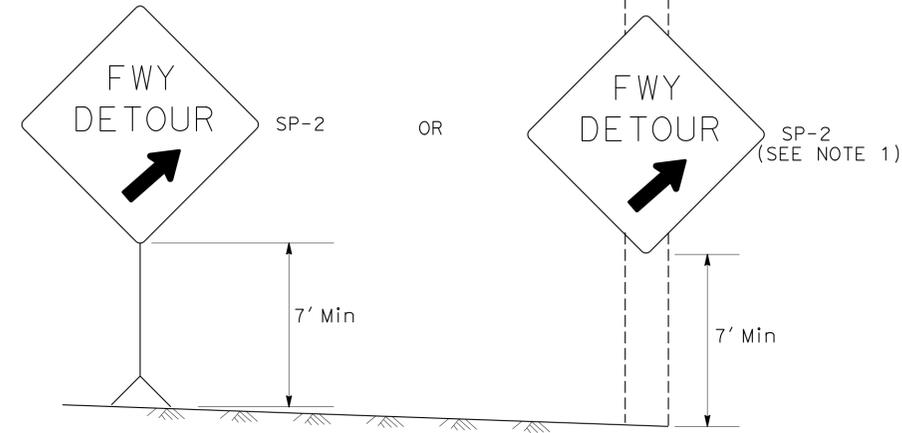
**THD-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DT M  
 FUNCTIONAL SUPERVISOR: ALI BAMSHAD  
 CHECKED BY: JOCELYN C CHIANG  
 DESIGNED BY: ALBERT K YU  
 REVISOR: JC  
 DATE: 2/14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	7	38

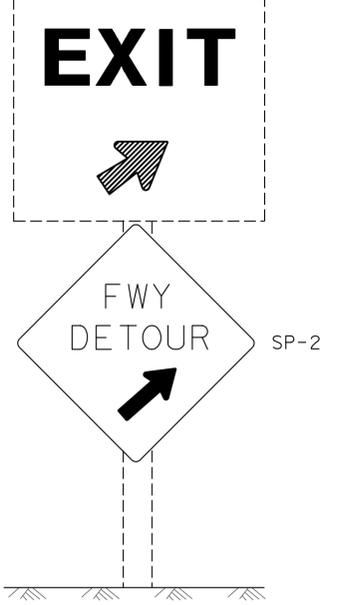
Ali Bamshad 8-27-15  
 REGISTERED CIVIL ENGINEER DATE  
 12-21-15  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 ALI R. BAMSHAD  
 No. C48134  
 Exp. 6-30-16  
 CIVIL  
 STATE OF CALIFORNIA



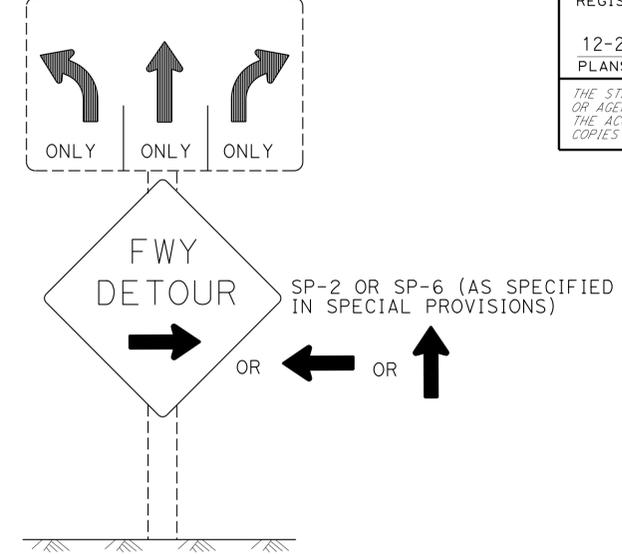
DETAIL A (SEE NOTE 3)

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

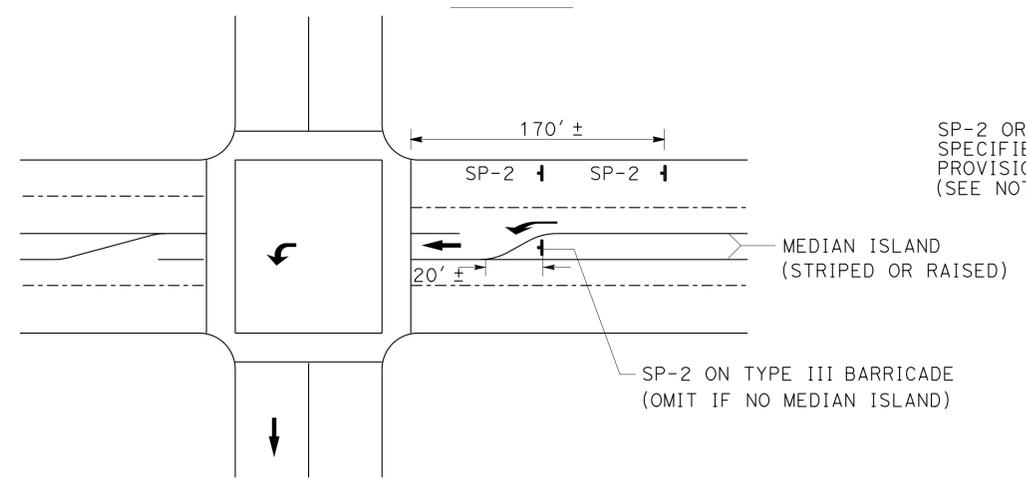


DETAIL B (SEE NOTE 3)

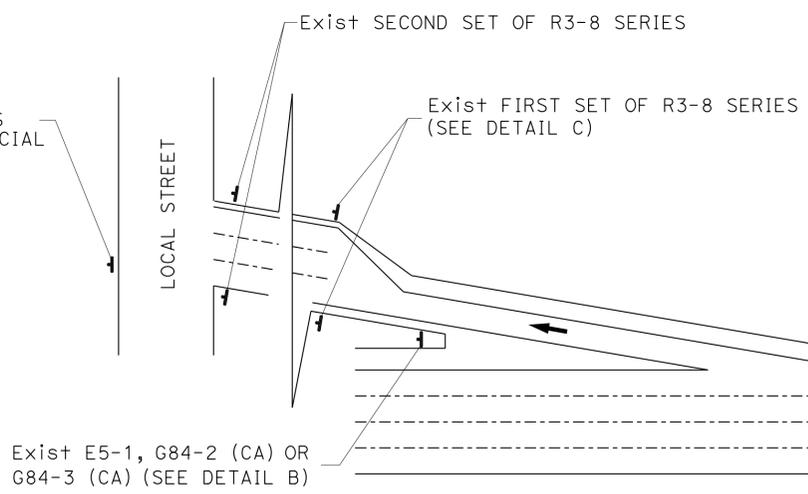
Exist R3-8 SERIES



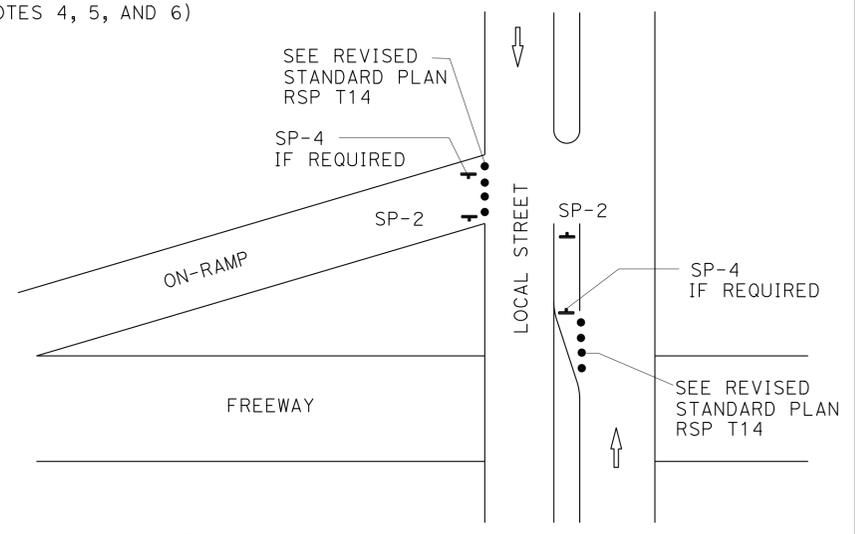
DETAIL C (SEE NOTES 4, 5, AND 6)



DETAIL D



TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP



DETAIL E

- LEGEND
- TRAFFIC CONE
  - † TEMPORARY TRAFFIC CONTROL SIGN
  - ➔ DETOUR DIRECTION
  - EXISTING OVERHEAD SIGN

SIGN CODE LEGEND

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

**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR DETOUR SIGN INSTALLATION**  
**ALONG DESIGNATED DETOUR ROUTE**  
**SHEET 2 OF 3**

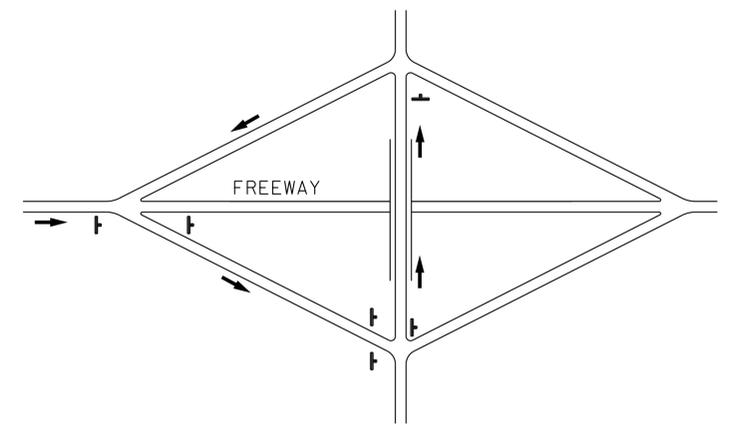
NO SCALE

THD-4

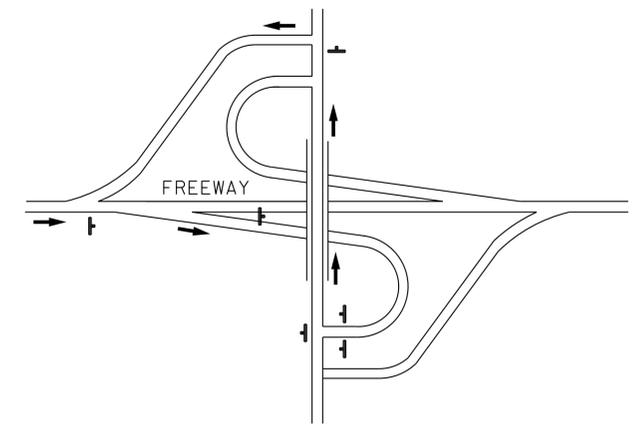
- NOTES: SIGN SP-2
- SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
  - SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
  - OMIT DETAILS A AND B FOR FULL FREEWAY CLOSURES.
  - SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, 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 MUST 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  
 DTIC  
 ALI BAMSHAD  
 FUNCTIONAL SUPERVISOR  
 CHECKED BY  
 DESIGNED BY  
 CALCULATED BY  
 ALBERT K YU  
 REVISOR  
 JOCELYN C CHIANG  
 DATE  
 2/14  
 JC

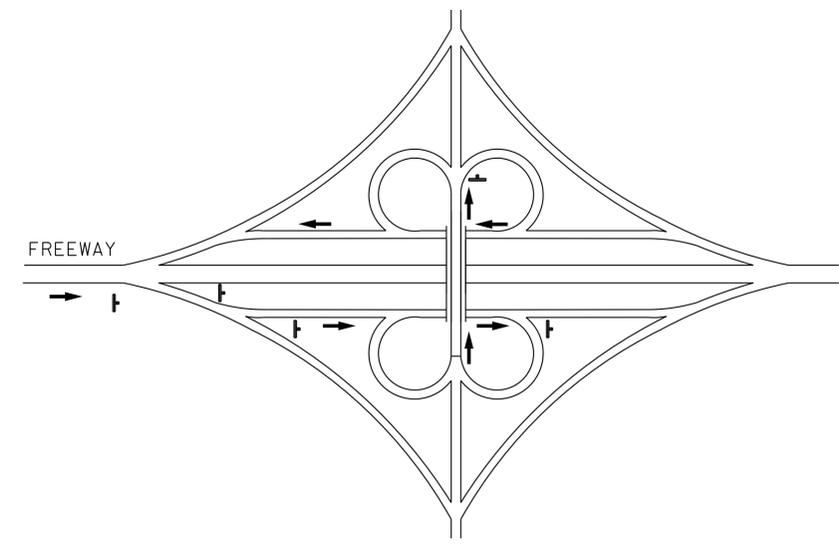
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** **DTM**  
 FUNCTIONAL SUPERVISOR: ALI BAMSHAD  
 REVISIONS: JC 2/14  
 REVISOR: ALBERT K YU  
 CHECKER: JOCELYN C CHIANG  
 CALCULATED/DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]



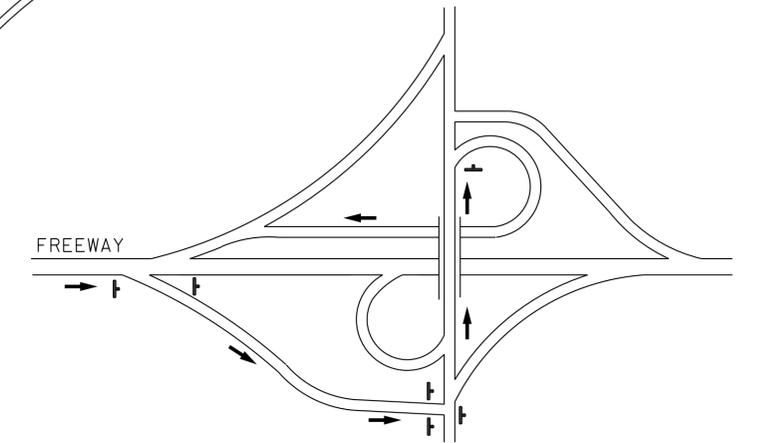
TYPE I



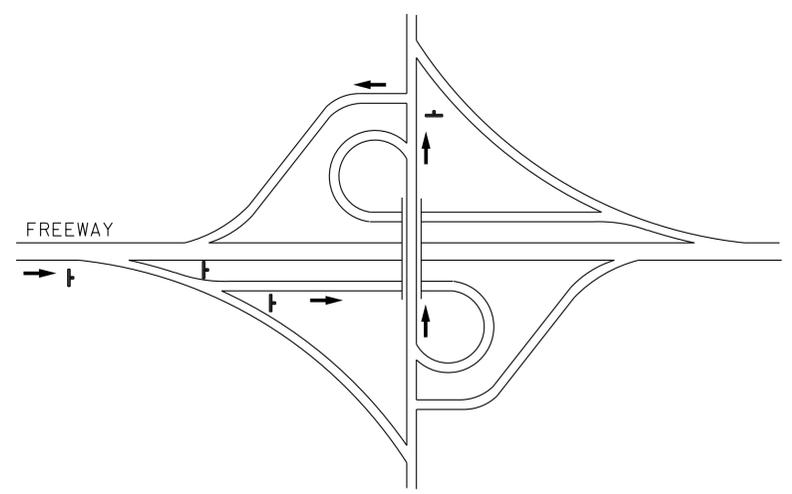
TYPE II



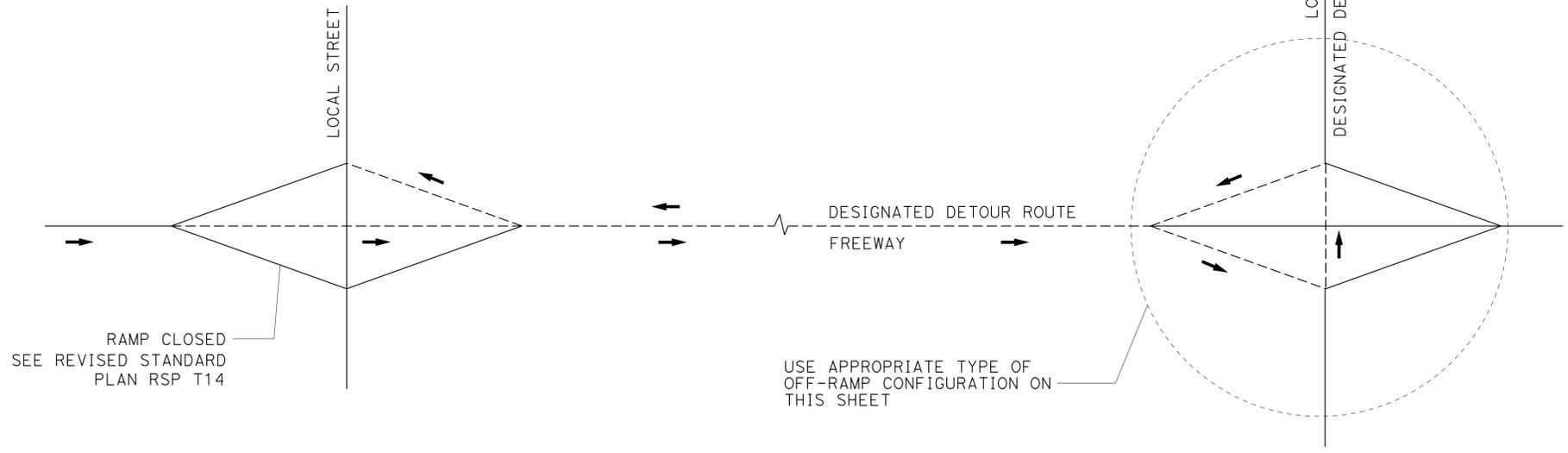
TYPE III



TYPE IV



TYPE V



TYPE OF OFF-RAMP CONFIGURATION	MINIMUM No. OF SP-2
TYPE I	6
TYPE II	6
TYPE III	5
TYPE IV	6
TYPE V	4

**TYPICAL DETOUR SIGN INSTALLATION FOR OFF-RAMP CLOSURE**

**NOTES:**

- FOR RAMP CONFIGURATIONS NOT SHOWN, THE EXACT LOCATIONS AND MINIMUM NUMBER OF SP-2 SIGNS MUST BE DETERMINED BY THE ENGINEER.
- SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-2 SIGN DETAILS.

**LEGEND**

- SIGN SP-2
- DETOUR DIRECTION
- DESIGNATED DETOUR ROUTE

**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR DETOUR SIGN INSTALLATION  
ALONG DESIGNATED DETOUR ROUTE  
SHEET 3 OF 3**

NO SCALE

**THD-5**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	9	38

Ali Bamshad 8-27-15  
 REGISTERED CIVIL ENGINEER DATE  
 12-21-15  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
**ALI R. BAMSHAD**  
 No. C48134  
 Exp. 6-30-16  
 CIVIL  
 STATE OF CALIFORNIA

**NOTES:**

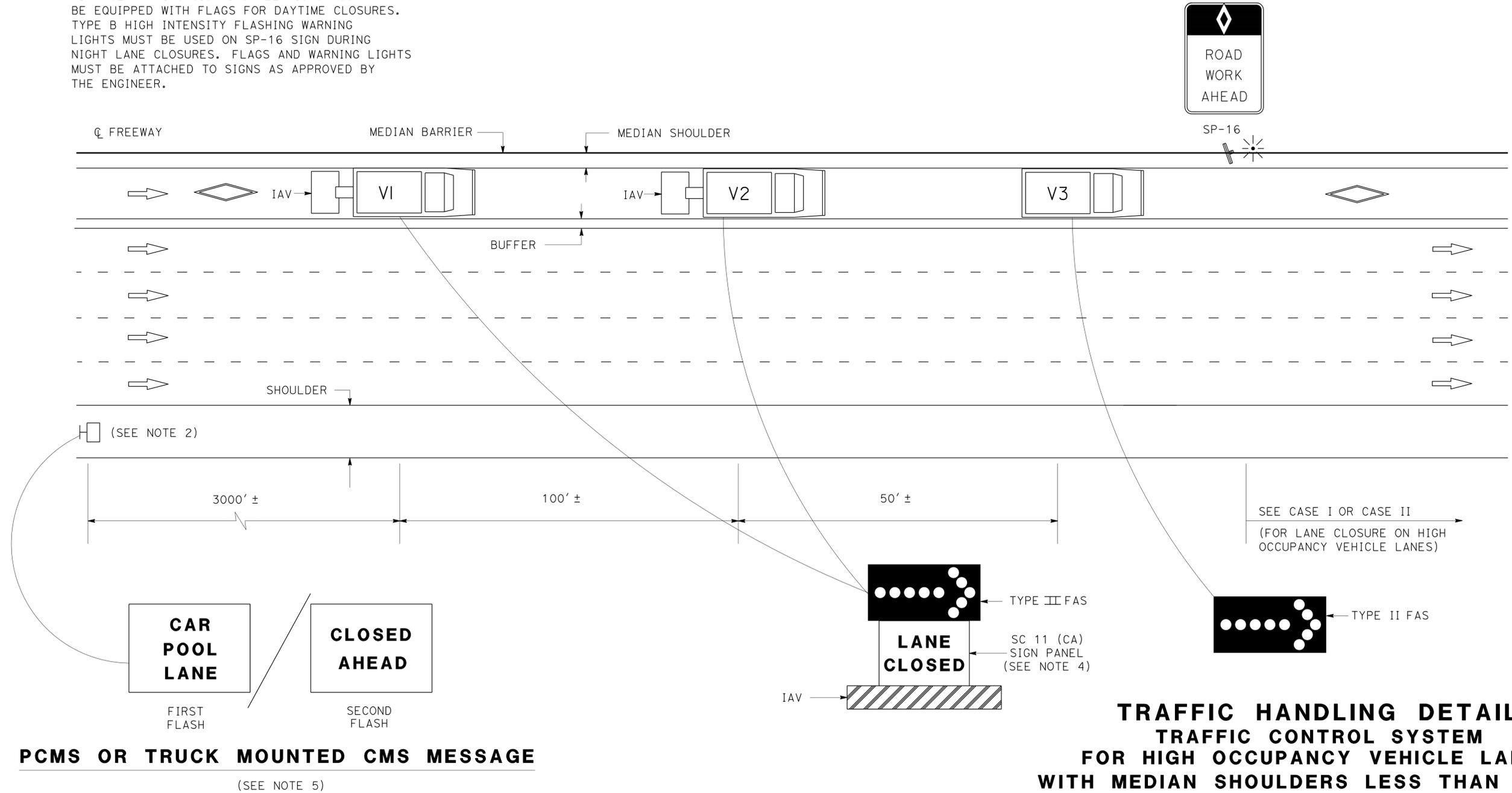
- LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PCMS MUST BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
- A MINIMUM SIGHT DISTANCE OF 1500' MUST BE PROVIDED IN ADVANCE OF PCMS.
- VEHICLE-MOUNTED SIGN PANELS MUST BE TYPE III OR IV RETROREFLECTORIZED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

**LEGEND**

- V1, V2 SHADOW VEHICLES
- V3 WORK/APPLICATION VEHICLE
- PCMS
- PORTABLE FLASHING BEACON
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)

**ABBREVIATIONS**

- IAV IMPACT ATTENUATOR VEHICLE
- (CA) CALIFORNIA CODE
- CHP CALIFORNIA HIGHWAY PATROL



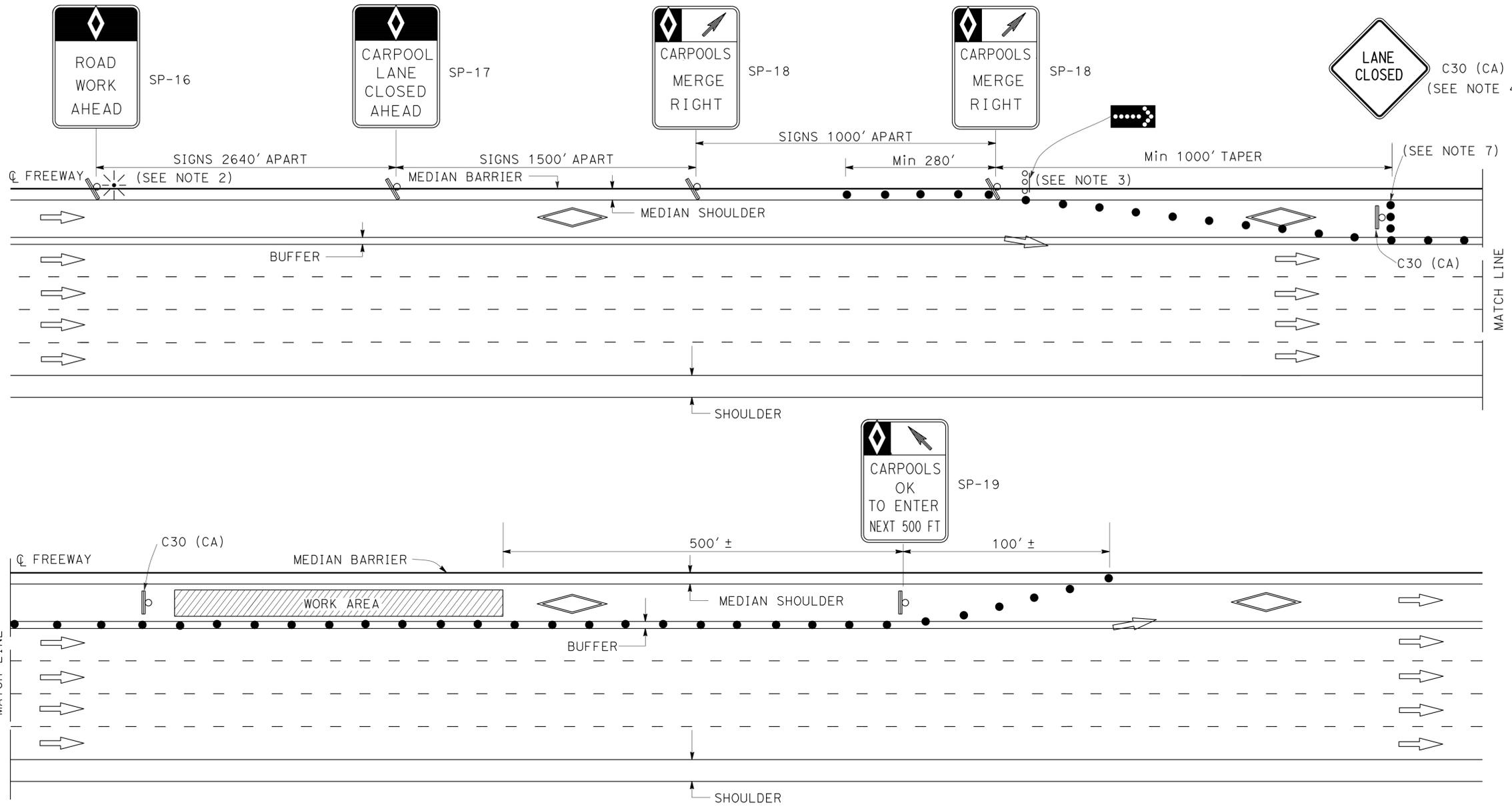
**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR HIGH OCCUPANCY VEHICLE LANES**  
**WITH MEDIAN SHOULDERS LESS THAN 8 FEET**  
 NO SCALE

**PCMS OR TRUCK MOUNTED CMS MESSAGE**  
 (SEE NOTE 5)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DT M  
 Ali Bamshad  
 Functional Supervisor  
 Checked by  
 Revised by  
 Date Revised  
 2/14  
 JC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	10	38
Ali Bamshad		8-27-15	REGISTERED CIVIL ENGINEER DATE		
12-21-15		PLANS APPROVAL DATE			
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DT M  
 FUNCTIONAL SUPERVISOR: ALI BAMSHAD  
 CHECKED BY: JOCELYN C CHIANG  
 REVISIONS: JC 2/14  
 USERNAME => s122436  
 DGN FILE => 72W660me007.dgn



- LEGEND**
- TRAFFIC CONE
  - ☼ PORTABLE FLASHING BEACON
  - ⏏ TEMPORARY TRAFFIC CONTROL SIGN
  - ⦿ FLASHING ARROW SIGN (FAS)
  - ⦿ FAS SUPPORT OR TRAILER

**ABBREVIATIONS**  
 (CA) CALIFORNIA CODE

**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 MUST 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 MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON SP-16 SIGN DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
3. THE FLASHING ARROW SIGN MUST BE TYPE I.
4. PLACE C30 (CA) SIGNS EVERY 2000' THROUGHOUT THE LENGTH OF LANE CLOSURE.
5. A MINIMUM 1500' OF SIGHT DISTANCE MUST BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING THE FLASHING ARROW SIGN. LANE CLOSURES MUST 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 MUST 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 MUST 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) MUST BE BLACK ON ORANGE BACKGROUND. SIGN SP-19 MUST BE BLACK ON WHITE BACKGROUND. DIAMONDS ON SIGNS MUST BE WHITE.
11. FOR CLOSURE OF LANE(S) ADJACENT TO HOV LANES, SEE CASE II.
12. THE MAXIMUM SPACING BETWEEN CONES MUST BE APPROXIMATELY 50' IN TAPERS AND 100' ON TANGENTS.

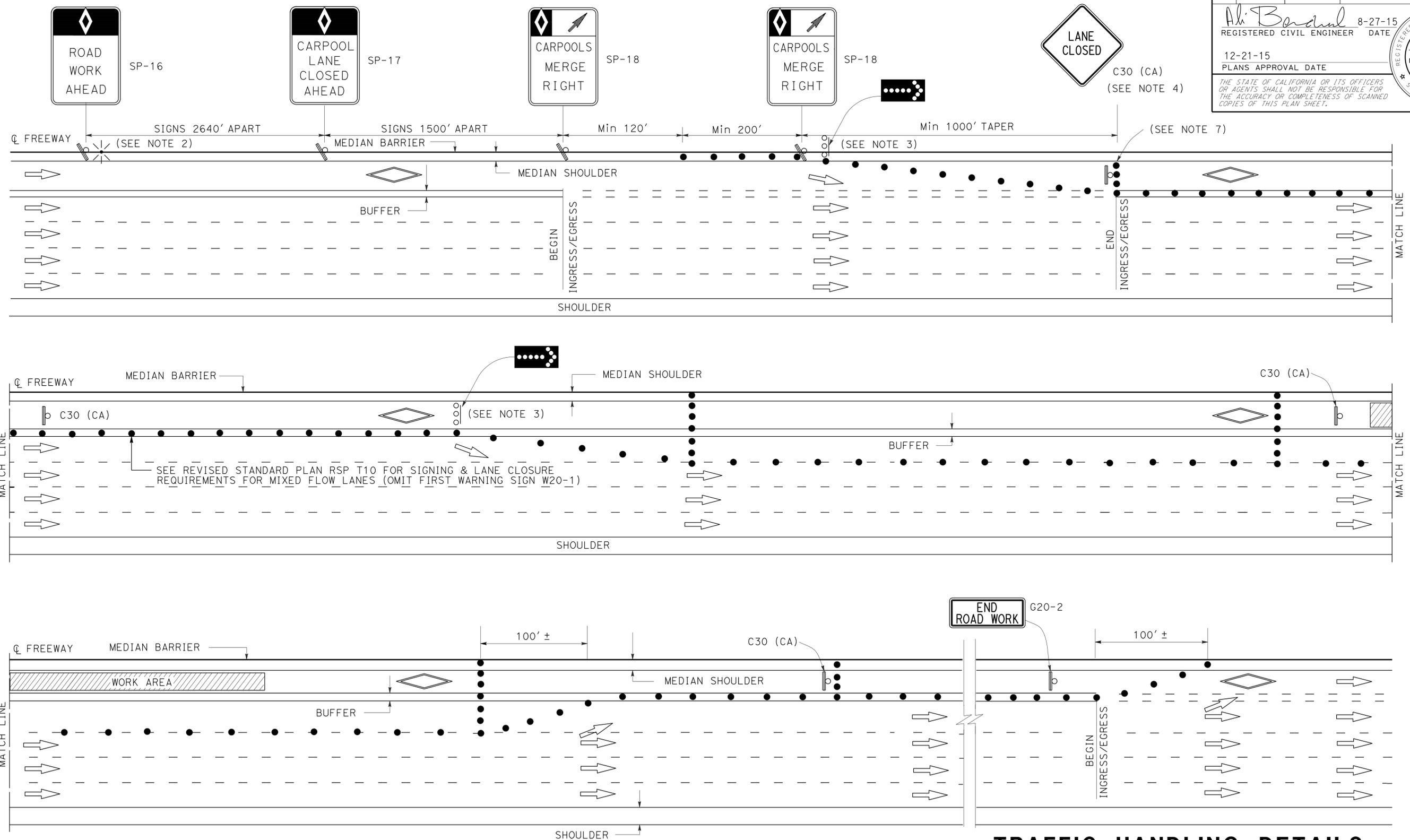
**TRAFFIC HANDLING DETAILS  
 TRAFFIC CONTROL SYSTEM  
 FOR HIGH OCCUPANCY VEHICLE LANES  
 AT NON-INGRESS/EGRESS AREAS  
 CASE I  
 NO SCALE**

**THD-7**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	11	38

Ali Bamshad 8-27-15  
 REGISTERED CIVIL ENGINEER DATE  
 12-21-15  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 ALI R. BAMSHAD  
 No. C48134  
 Exp. 6-30-16  
 CIVIL  
 STATE OF CALIFORNIA



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

**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR HIGH OCCUPANCY**  
**VEHICLE LANES AND ADJACENT FREEWAY LANES**  
**BETWEEN INGRESS/EGRESS AREAS**  
**CASE II**  
 NO SCALE  
**THD-8**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DT M  
 FUNCTIONAL SUPERVISOR ALI BAMSHAD  
 CHECKED BY JOCELYN C CHIANG  
 REVISOR BY ALBERT K YU  
 DATE REVISED 2/14  
 JC  
 2/14

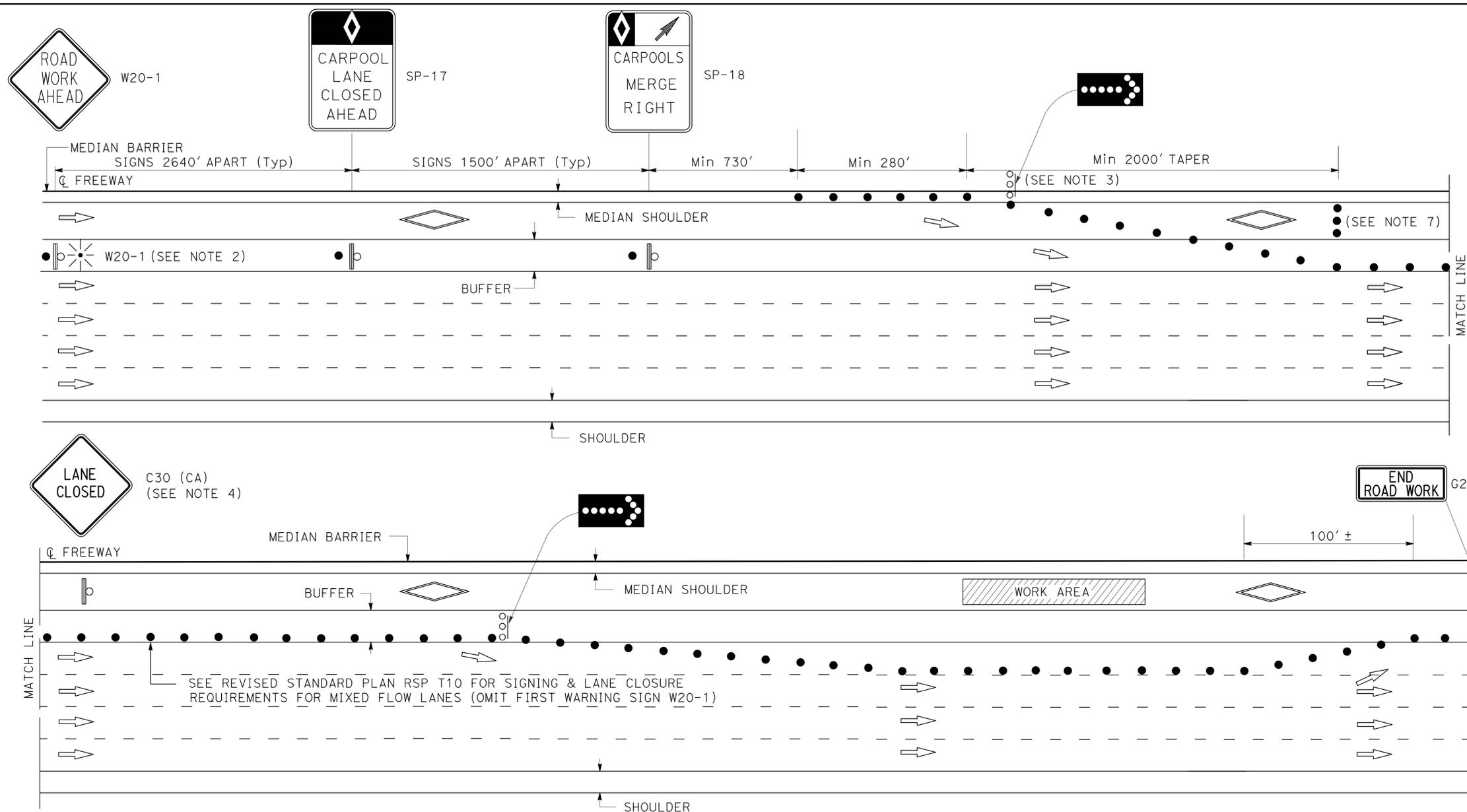
LAST REVISION DATE PLOTTED => 27-JAN-2016  
 12-21-15 TIME PLOTTED => 1:3:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	12	38

Ali Bamshad 8-27-15  
 REGISTERED CIVIL ENGINEER DATE  
 12-21-15  
 PLANS APPROVAL DATE

ALI R. BAMSHAD  
 No. C48134  
 Exp. 6-30-16  
 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:**

- AT LEAST ONE PERSON MUST BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON NIGHT LANE CLOSURES OR DAY-TIME CLOSURES EXCEEDING 1 MILE LENGTH, INCLUDING TAPERS.
- ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON W20-1 SIGNS DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
- THE FLASHING ARROW SIGN MUST BE TYPE I.
- PLACE C30 (CA) SIGNS EVERY 2000' THROUGHOUT THE LENGTH OF LANE CLOSURES.
- A MINIMUM 1500' OF SIGHT DISTANCE MUST BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING FLASHING ARROW SIGNS. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PORTABLE DELINEATORS PLACED AT ONE-HALF THE SPACING INDICATED FOR TRAFFIC CONES MAY BE USED INSTEAD OF CONES FOR DAYTIME CLOSURES.
- A MINIMUM OF 3 CONES MUST 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.
- SIGNS SP-17, SP-18, AND C30 (CA) MUST BE BLACK ON ORANGE BACKGROUND. DIAMONDS ON SIGNS MUST BE WHITE.
- THE MAXIMUM SPACING BETWEEN CONES MUST BE APPROXIMATELY 50' IN A TAPER AND 100' ON TANGENT.

**LEGEND**

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

**SIGN PANEL**

- SIZE (Min)
- W20-1 48" X 48"
  - SP-17 36" X 54"
  - SP-18 36" X 48"
  - C30 (CA) 30" X 30"
  - G20-2 48" X 24"

**ABBREVIATIONS**

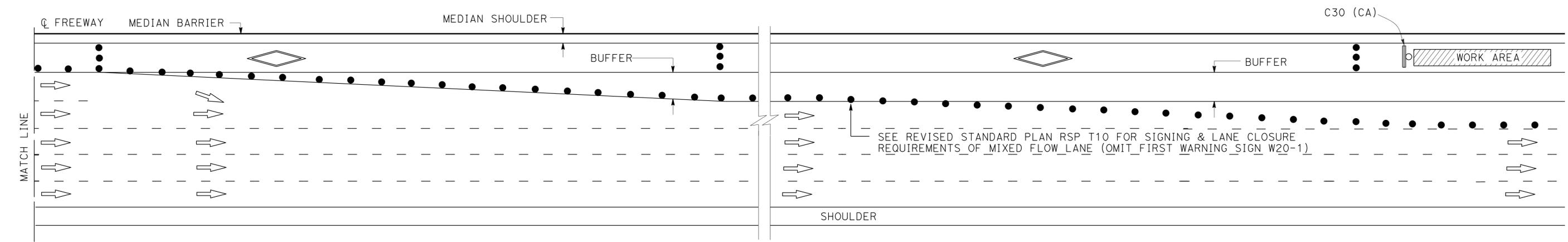
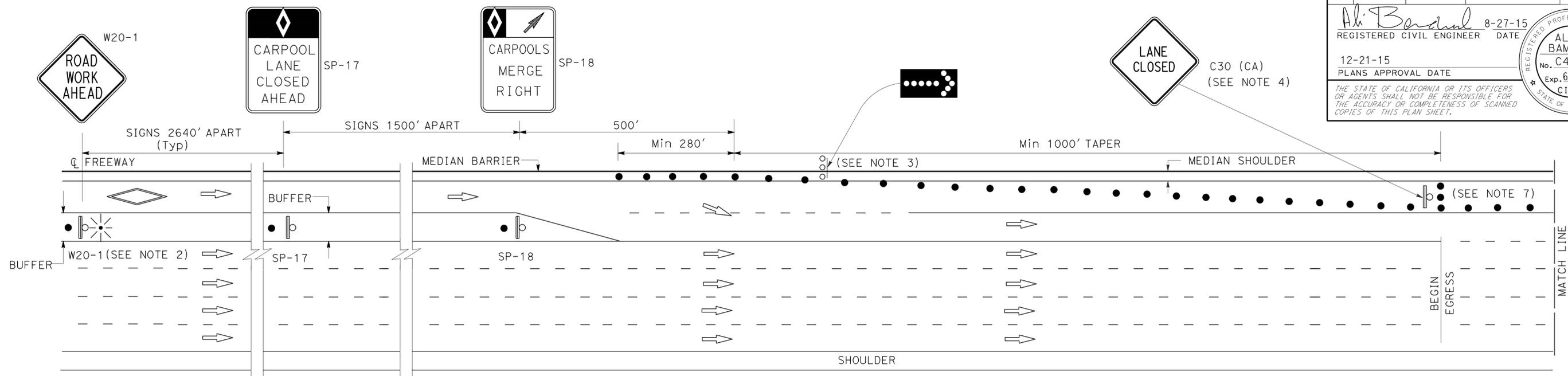
(CA) CALIFORNIA CODE

**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR ROUTE 10 (EL MONTE BUSWAY)**  
**AT NON-INGRESS/EGRESS AREAS**  
**CASE I**  
 NO SCALE

**THD-9**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 ALBERT K YU  
 ALI BAMSHAD  
 DTM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	13	38
Ali Bamshad REGISTERED CIVIL ENGINEER 12-21-15 PLANS APPROVAL DATE			8-27-15 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:**

- AT LEAST ONE PERSON MUST BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON NIGHT LANE CLOSURES OR DAY-TIME CLOSURES EXCEEDING 1 MILE LENGTH, INCLUDING TAPERS.
- ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON W20-1 SIGNS DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
- THE FLASHING ARROW SIGN MUST BE TYPE I.
- PLACE C30 (CA) SIGNS EVERY 2000' THROUGHOUT THE LENGTH OF LANE CLOSURES.
- A MINIMUM 1500' OF SIGHT DISTANCE MUST BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING FLASHING ARROW SIGNS. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PORTABLE DELINEATORS PLACED AT ONE-HALF THE SPACING INDICATED FOR TRAFFIC CONES MAY BE USED INSTEAD OF CONES FOR DAYTIME CLOSURES.
- A MINIMUM OF 3 CONES MUST 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.
- SIGNS SP-17, SP-18, AND C30 (CA) MUST BE BLACK ON ORANGE BACKGROUND. DIAMONDS ON SIGNS MUST BE WHITE.
- THE MAXIMUM SPACING BETWEEN CONES MUST BE APPROXIMATELY 50' IN A TAPER AND 100' ON TANGENT.

**LEGEND**

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

**SIGN PANEL**

SIZE (MIN)
W20-1 48" X 48"
SP-17 36" X 54"
SP-18 36" X 48"
C30 (CA) 30" X 30"

**ABBREVIATIONS**

(CA) CALIFORNIA CODE

**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR ROUTE 10 (EL MONTE BUSWAY)**  
**AND ADJACENT FREEWAY LANES**  
**AT EGRESS AREAS**  
**CASE II**  
 NO SCALE

**THD-10**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 ALI BAMSHAD  
 FUNCTIONAL SUPERVISOR  
 ALBERT K YU  
 REVISOR  
 JOCELYN C CHIANG  
 DATE REVISOR  
 2/14  
 JC  
 2/14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	14	38

8-24-15  
 REGISTERED CIVIL ENGINEER DATE  
 BIPIN PATEL  
 No. C60082  
 Exp. 06-30-16  
 CIVIL  
 STATE OF CALIFORNIA  
 REGISTERED PROFESSIONAL ENGINEER

12-21-15  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

1. SPACING FOR CHANNELIZERS IS 10' UNLESS OTHERWISE SPECIFIED.
2. COVER ALL CONFLICTING SIGNING.
3. CONFLICTING SIGNING AND PAVEMENT DELINEATION MUST BE REMOVED.

**LEGEND:**

- BRIDGE WORK AREA
- DIRECTION OF TRAVEL
- TYPE II BARRICADES (3 EACH PER LANE)
- ROAD CLOSURE
- CHANNELIZER (SURFACE MOUNTED)
- TEMPORARY SIGN
- PORTABLE FLASHING BEACON
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PCMS

**SIGN PANEL SIZE**

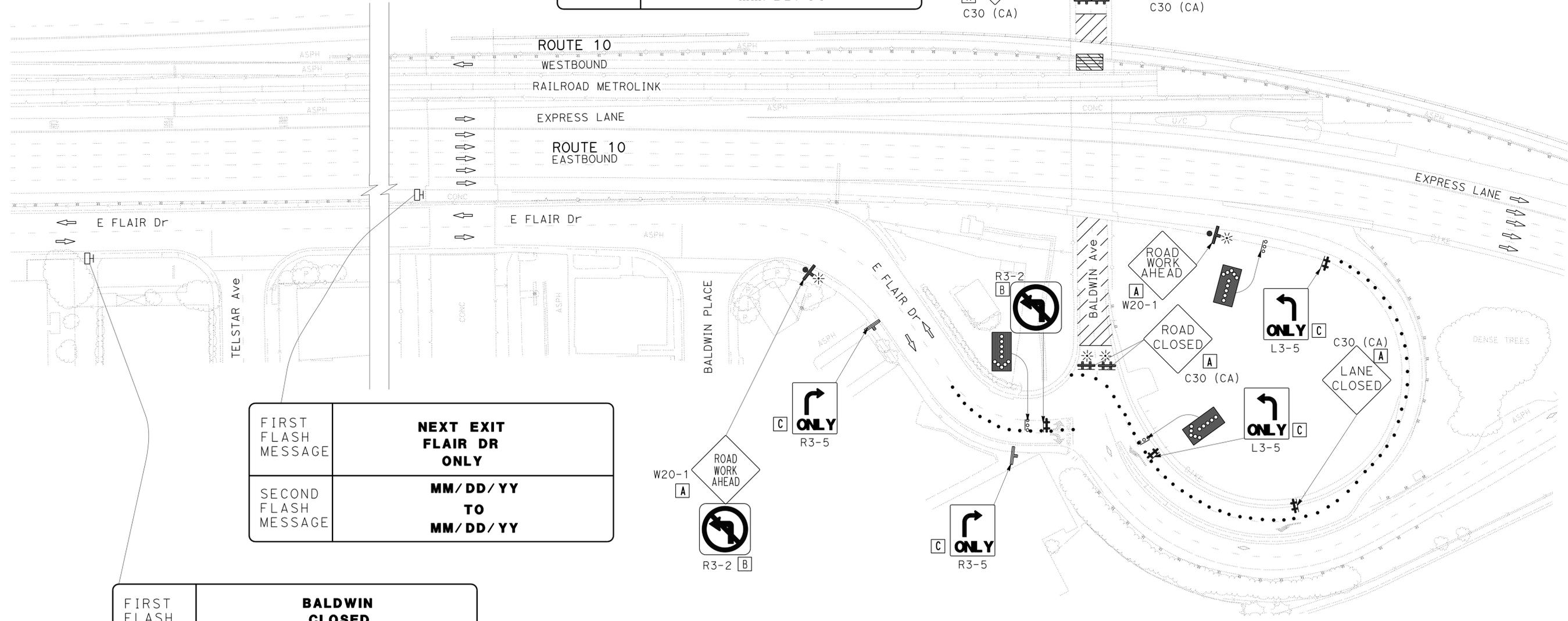
- A** 48" X 48"
- B** 36" X 36"
- C** 30" X 36"

FIRST FLASH MESSAGE	<b>BLDWN AT R10 CLOSD LOCALS OK</b>
SECOND FLASH MESSAGE	<b>MM/DD/YY TO MM/DD/YY</b>

FIRST FLASH MESSAGE	<b>BLDWN AT R10 CLOSD LOCALS OK</b>
SECOND FLASH MESSAGE	<b>MM/DD/YY TO MM/DD/YY</b>

FIRST FLASH MESSAGE	<b>NEXT EXIT FLAIR DR ONLY</b>
SECOND FLASH MESSAGE	<b>MM/DD/YY TO MM/DD/YY</b>

FIRST FLASH MESSAGE	<b>BALDWIN CLOSED AT R10</b>
SECOND FLASH MESSAGE	<b>MM/DD/YY TO MM/DD/YY</b>



**TRAFFIC HANDLING DETAILS**  
NO SCALE

**THD-11**

APPROVED FOR TRAFFIC HANDLING WORK ONLY

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

REVISOR	DATE	REVISION
BIPIN PATEL		
LARRY WIERING		
CALCULATED/DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR
		LARRY WIERING

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	15	38

	8-24-15
REGISTERED CIVIL ENGINEER	DATE
12-21-15	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
<b>BIPIN PATEL</b>
No. C60082
Exp. 06-30-16
CIVIL
STATE OF CALIFORNIA

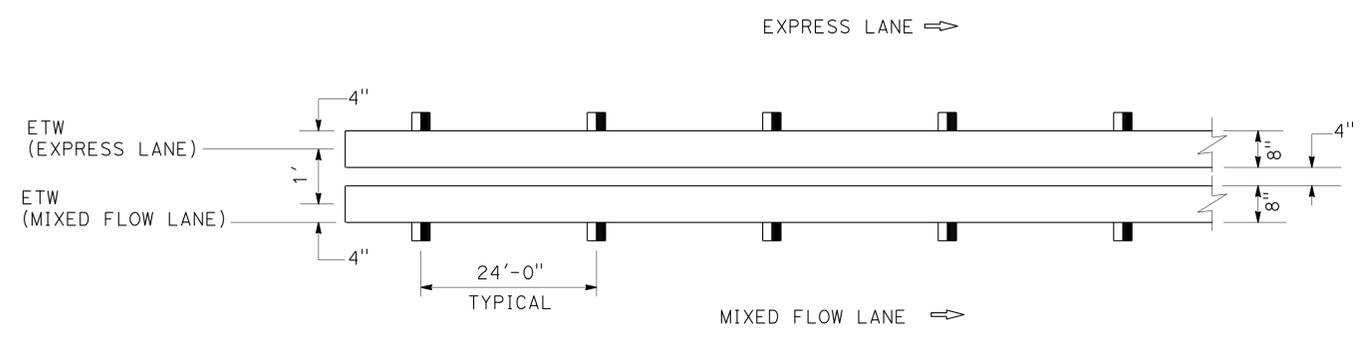
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**

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

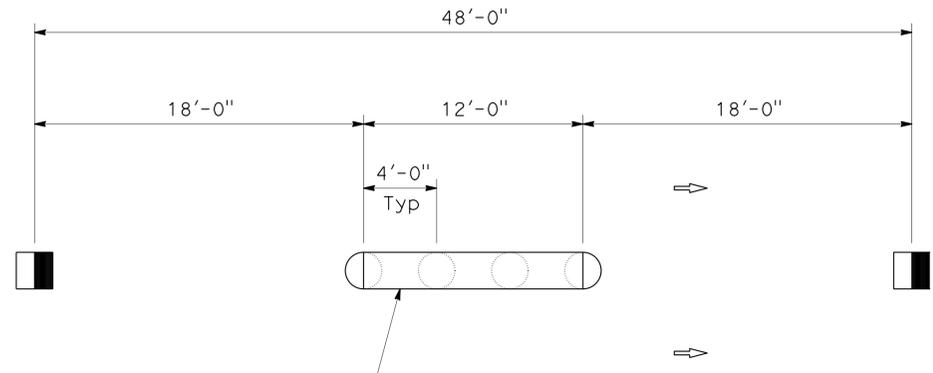
**LEGEND:**

-  TYPE G PAVEMENT MARKER
-  TYPE H PAVEMENT MARKER
-  4" YELLOW THERMOPLASTIC STRIPE
-  8" WHITE THERMOPLASTIC STRIPE

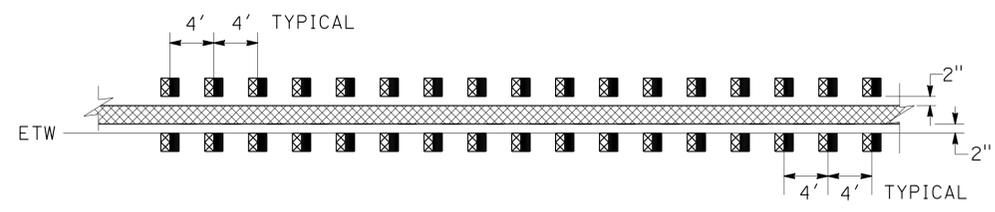


**DETAIL A**  
BUFFER WIDTH-1'

**BUFFER STRIPING DETAIL**



**DETAIL 13 (MODIFIED)**



**DETAIL 25M**

**PAVEMENT DELINEATION DETAILS**  
NO SCALE

**PDD-1**

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	16	38

8-24-15  
 REGISTERED CIVIL ENGINEER DATE

12-21-15  
 PLANS APPROVAL DATE

**BIPIN PATEL**  
 No. C60082  
 Exp. 06-30-16  
 CIVIL

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

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

### PAVEMENT DELINEATION QUANTITIES

Loc No. (X)	PM	BRIDGE NAME	BRIDGE No.	LF	EA	SQFT	THERMOPLASTIC TRAFFIC STRIPE											THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER			
							DETAIL												RETROREFLECTIVE			NON-REFLECTIVE
							8	13 (MODIFIED)	27B	25A	25M	25	36	36A	DETAIL A	37	TYPE G		TYPE C	TYPE H	TYPE A	
							4" WHITE (BROKEN 17-7)	4" WHITE (BROKEN 36-12)	4" WHITE	4" YELLOW			8" WHITE			8" WHITE (BROKEN 12-3)						
LF	EA	SQFT	LF											SQFT	EA							
1	26.84	ROUTE 10/164 COLLECTOR SEPARATION	53-0010S	210	23		172			175	172						172		14	9		
2	26.84	ROUTE 10/164 COLLECTOR SEPARATION	53-0010K	232	26		193			193	193						193		16	10		
3	C27.84	EATON WASH (WB BUSWAY)	53-0656C	64	4		64			64	64									4		
4	26.85	EATON WASH	53-0656R	269	110		64	256	64		64				128		64	28		34	48	
5	27.96	BALDWIN AVENUE UC	53-1021L	308	112	36	77	308	77		77				154			36	22	42	48	
6	C27.96	BALDWIN AVENUE UC (WB BUSWAY)	53-1021C	41	2		41			41			41							2		
10	28.84	LEXINGTON AVENUE UC	53-0883	705	214	40	126	35	504	158		126		126	32	252		40	50	68	96	
11	29.03	TYLER AVENUE UC	53-0659	882	312	54	210		840	210		210				420	210	54	76	108	128	
12	29.34	MEEKER ROAD UC	53-1029	633	212		108	54	432	162		108			54	216	108		56	60	96	
14	29.90	STEWART St ON-RAMP UC	53-1030	400	136		100		400	100		50	50			200			40	32	64	
15	30.13	COGSWELL ROAD UC	53-0662	384	166		128		512	128		64	64			128			32	38	96	
17	30.58	GARVEY Ave OFF-RAMP UC	53-1032	512	113		178		623	178						178			21	8	84	
<b>SUBTOTAL</b>				4,640	1,430	130	1,461	89	3,875	1,550	429	699	333	126	86	1,676	747	130	325	30	415	660
<b>TOTAL</b>				4,640	1,430	130	1,461	89	3,875	3,011			1,888			747	130	770			660	

## PAVEMENT DELINEATION QUANTITIES

### PDQ-1

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

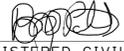
FUNCTIONAL SUPERVISOR  
LARRY WIERING

CALCULATED/DESIGNED BY  
CHECKED BY

BIPIN PATEL  
LARRY WIERING

REVISED BY  
DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	17	38

 8-24-15  
 REGISTERED CIVIL ENGINEER DATE

12-21-15  
 PLANS APPROVAL DATE

BIPIN PATEL  
 No. C60082  
 Exp. 06-30-16  
 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.

ROADWAY QUANTITIES			
PM	LOCATION	CONCRETE BARRIER (TYPE 50) (RSC)	REMOVE CONCRETE BARRIER
		LF	LF
28.70	CENTER MEDIAN	12	12
TOTAL		12	12

TEMPORARY TRAFFIC HANDLING QUANTITY		
PM	LOCATION	CHANNELIZER (SURFACE MOUNTED)
		EA
27.96	BALDWIN Ave UC	98
TOTAL		98

## SUMMARY OF QUANTITIES

Q-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	18	38

*Grace M. Tsushima*  
REGISTERED CIVIL ENGINEER

July 19, 2013  
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 12-21-15

**UNIT OF MEASUREMENT SYMBOLS:**

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

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

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

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

\* For use on a sign panel only

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS  
(SHEET 2 OF 2)**

NO SCALE

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

**REVISED STANDARD PLAN RSP A10B**

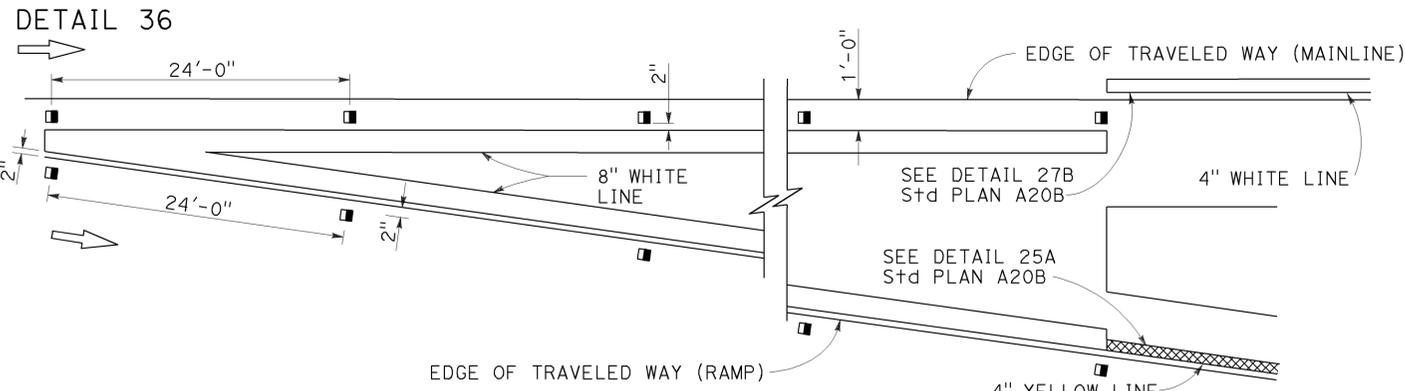
	<b>M</b>
Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE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

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

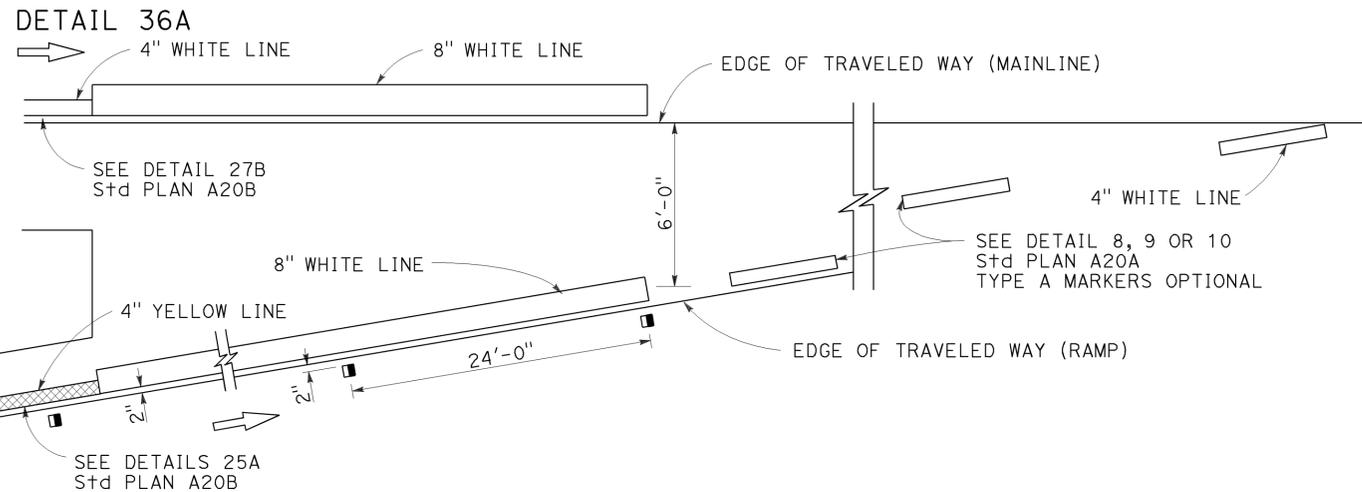
	<b>S</b>
S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
ℒ	STATION LINE
SM	SELECTED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

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

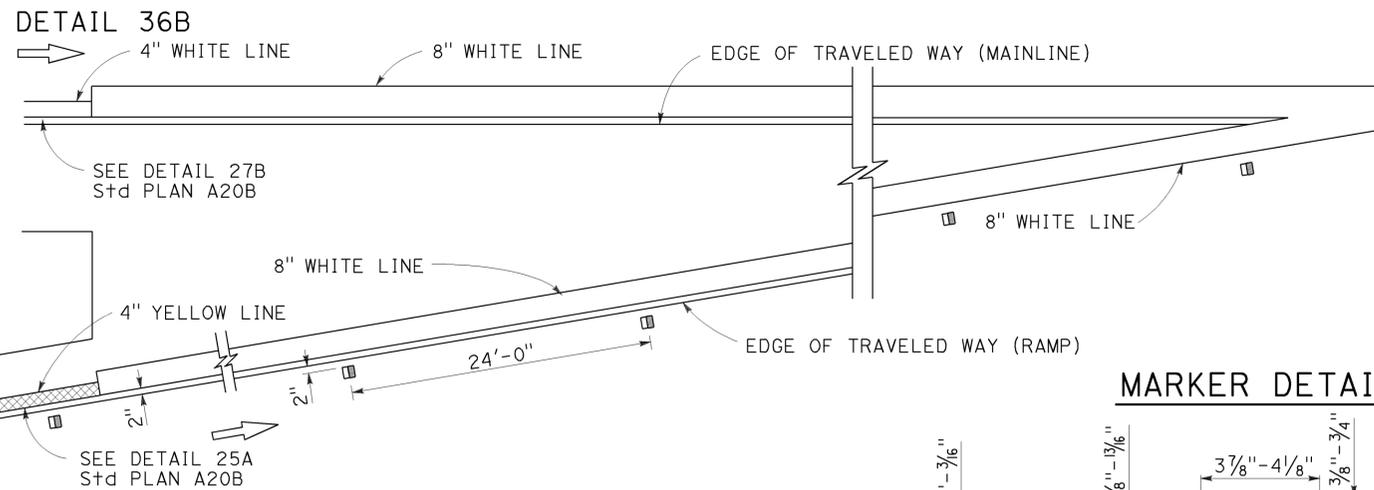
# EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



# ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



# ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

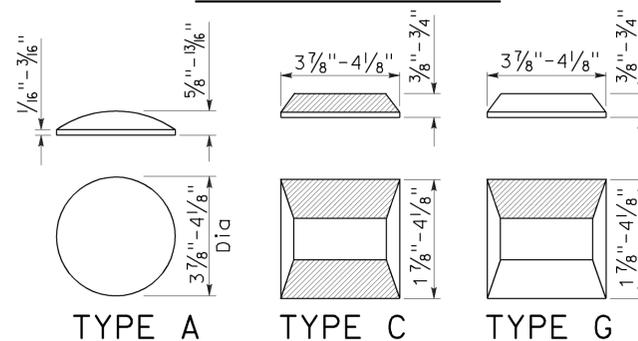


## MARKER DETAILS

### LEGEND:

#### MARKERS

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



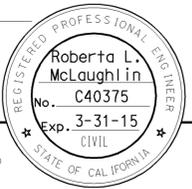
RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	19	38

Roberta L. McLaughlin  
REGISTERED CIVIL ENGINEER

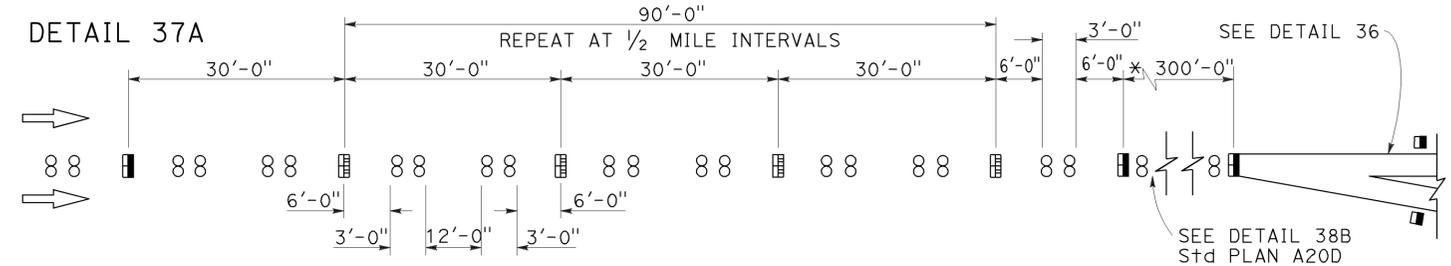
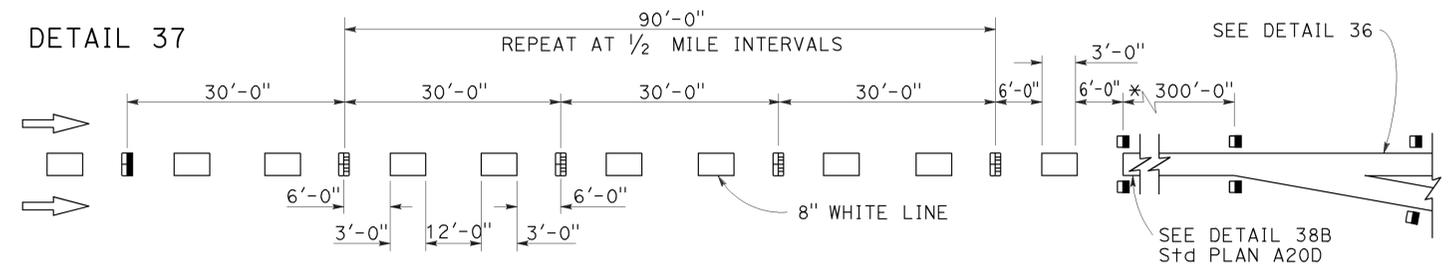
July 19, 2013  
PLANS APPROVAL DATE

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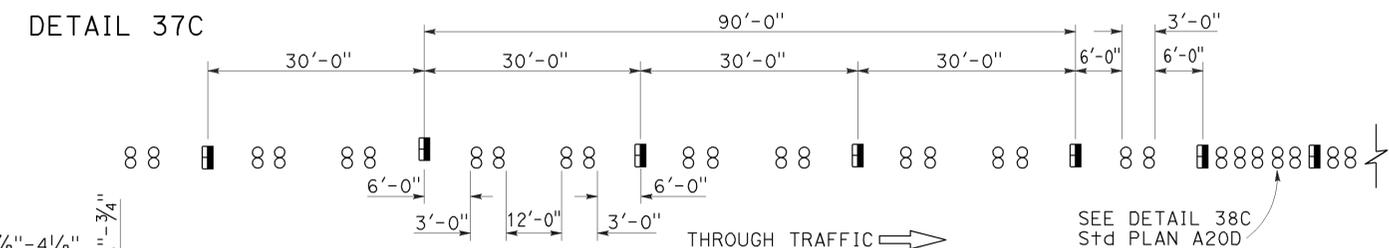
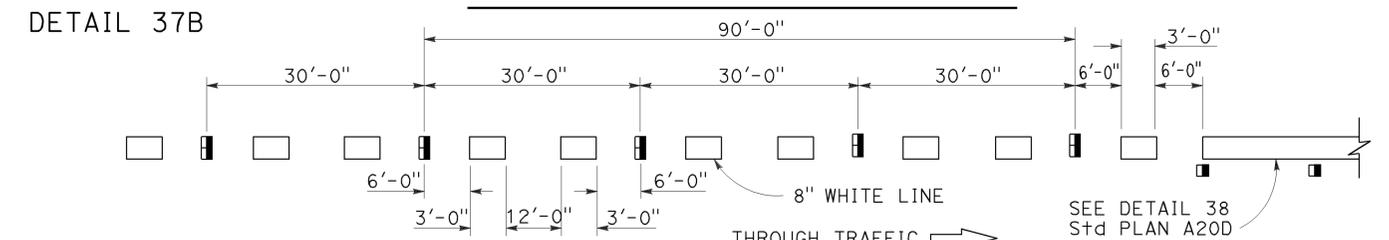
TO ACCOMPANY PLANS DATED 12-21-15

## LANE DROP AT EXIT RAMP



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

## LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

## PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

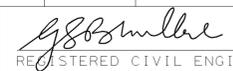
NO SCALE

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

## REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	20	38

  
 REGISTERED CIVIL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 12-21-15

TABLE 1

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

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

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

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

TABLE 2

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

\* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph  
 \*\* - Longitudinal buffer space or flagger station spacing  
 \*\*\* - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

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

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM TABLES  
 FOR LANE AND RAMP CLOSURES**  
 NO SCALE

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

**REVISED STANDARD PLAN RSP T9**

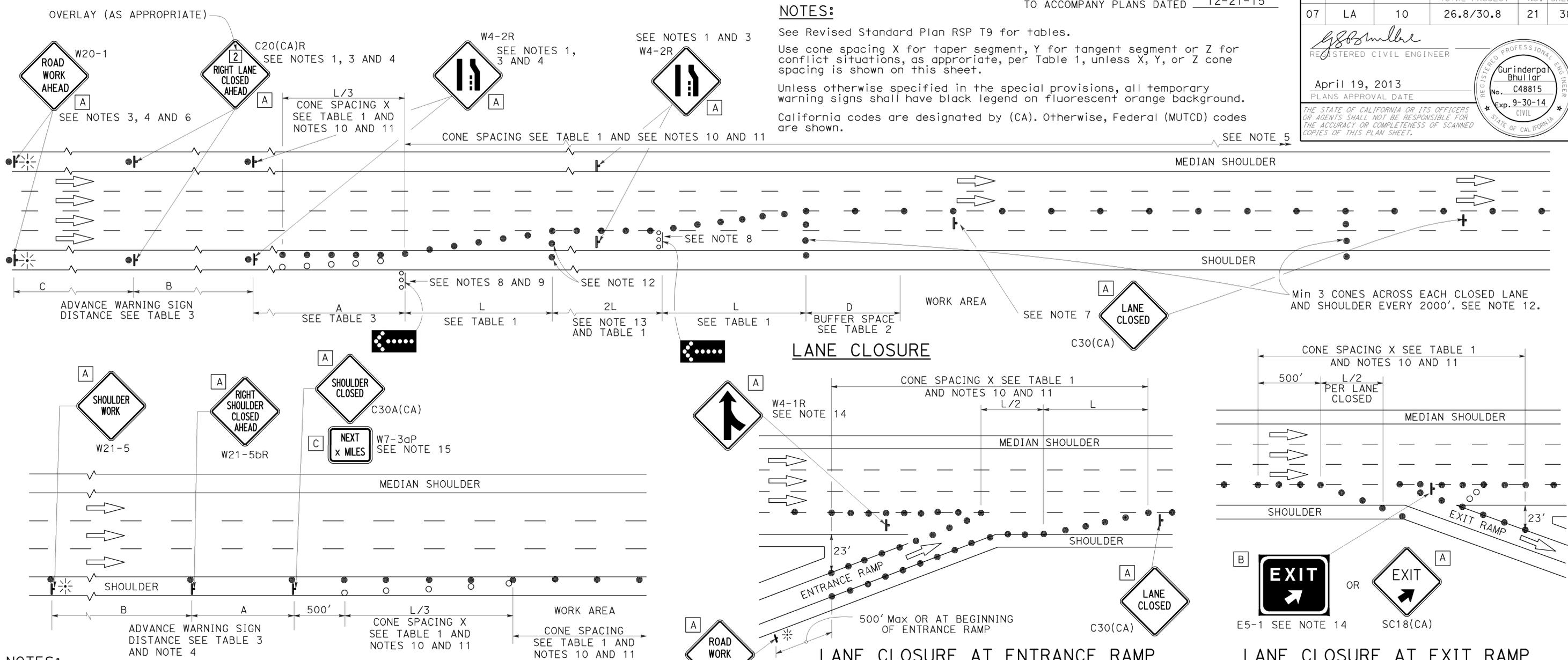
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	21	38

REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE

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

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

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

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

**LEGEND**

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

**SIGN PANEL SIZE (Min)**

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T10**

2010 REVISED STANDARD PLAN RSP T10

# TYPICAL RAMP CLOSURES

## SIGN PANEL SIZE (Min)

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

## LEGEND

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	22	38

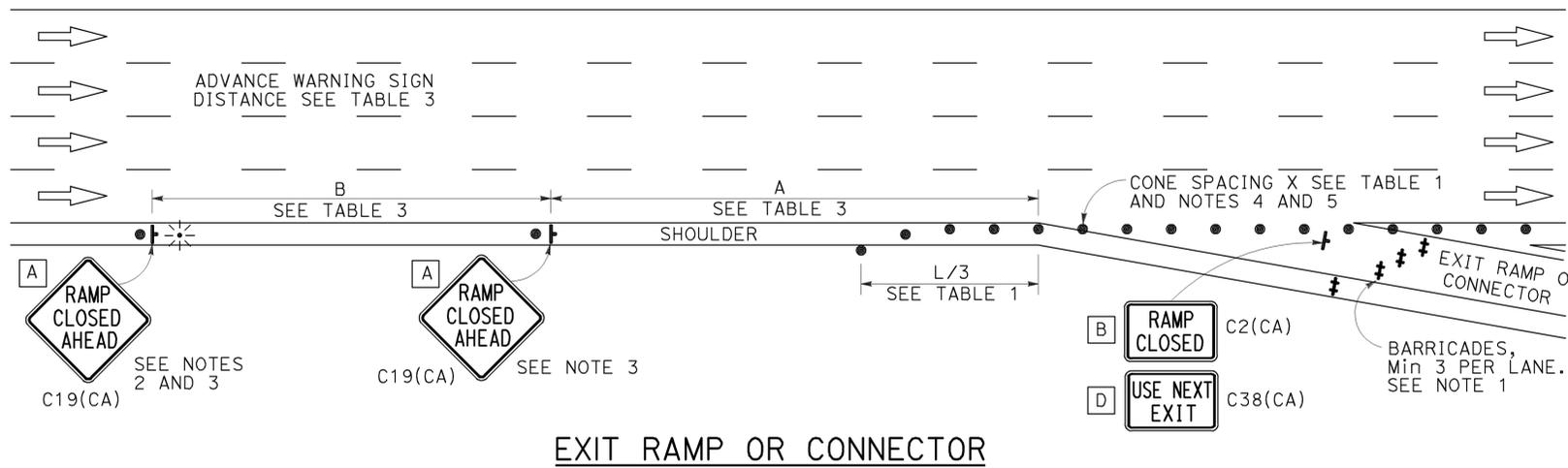
*Gurinderpal Bhullar*  
 REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

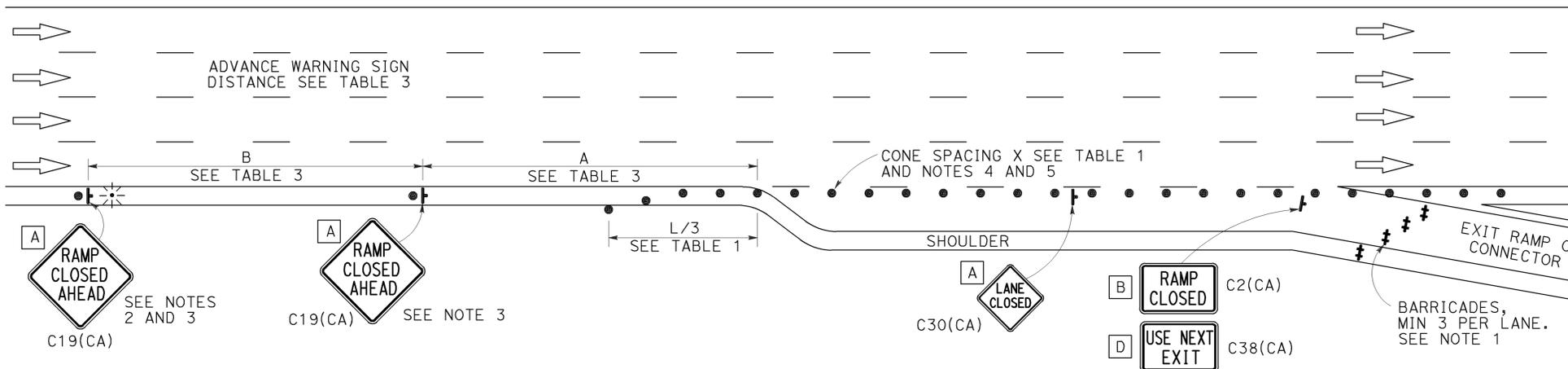
TO ACCOMPANY PLANS DATED 12-21-15

## NOTES:

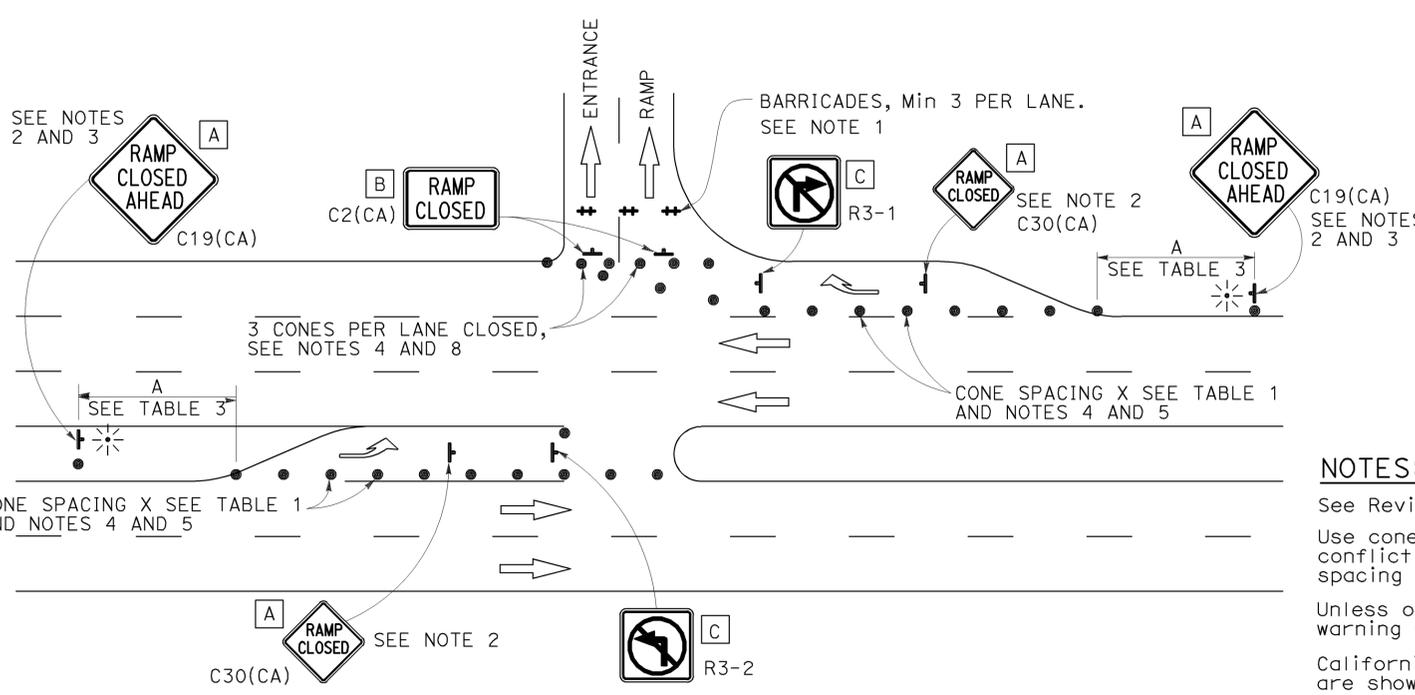
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



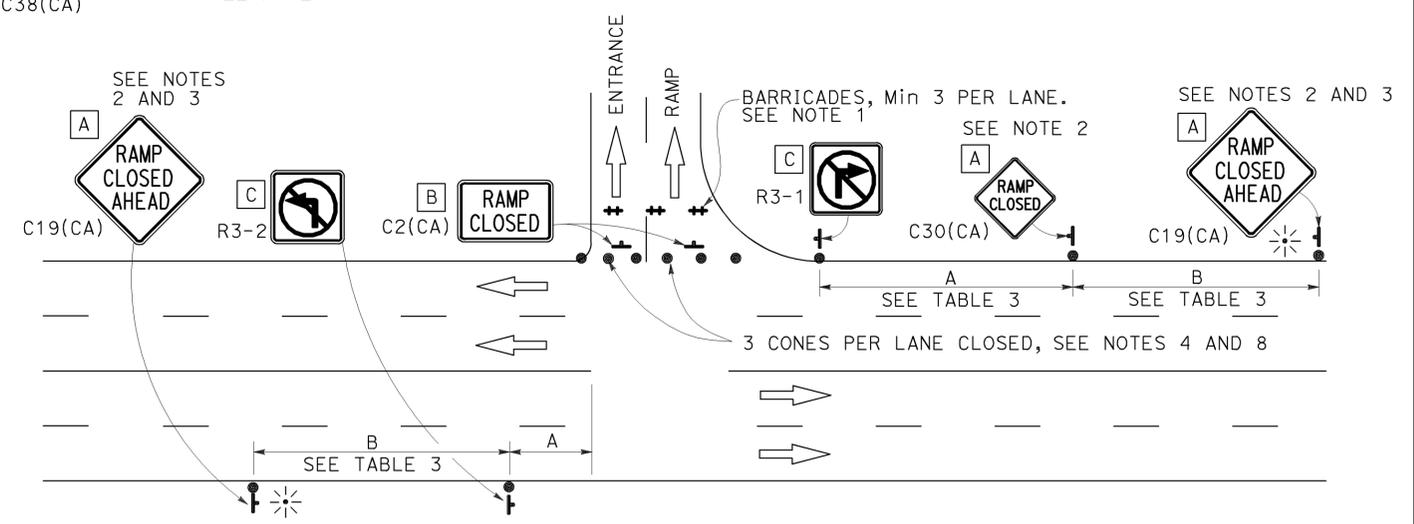
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

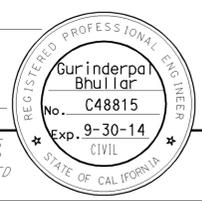
## NOTES:

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

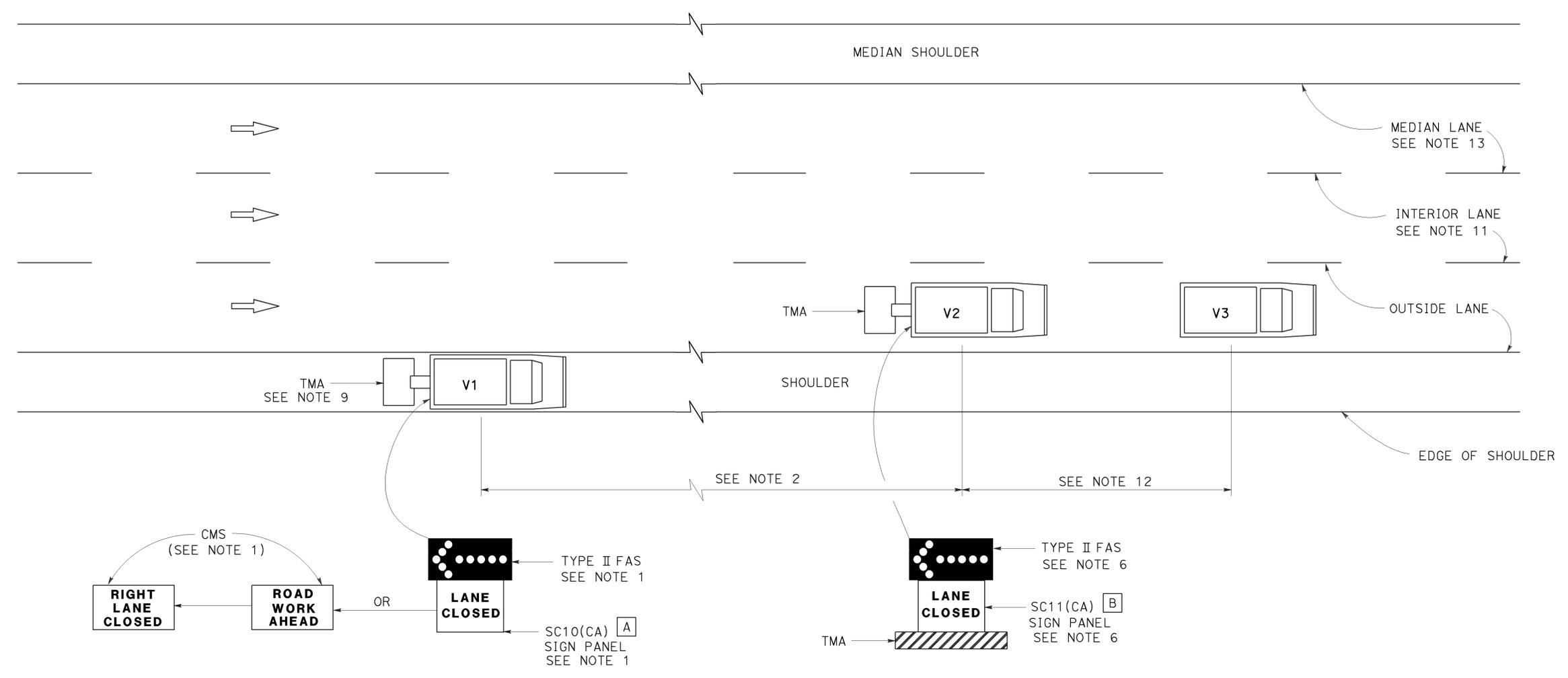
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR RAMP CLOSURE**  
 NO SCALE

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

2010 REVISED STANDARD PLAN RSP T14



TO ACCOMPANY PLANS DATED 12-21-15



**SIGN PANEL SIZE (Min)**

- A 66" x 36"
- B 54" x 42"

**LEGEND**

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
-  FLASHING ARROW SIGN (FAS)
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

**MOVING LANE CLOSURE ON MEDIAN LANE OR  
OUTSIDE LANE OF MULTILANE HIGHWAYS**

**NOTES:**

1. Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
13. When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

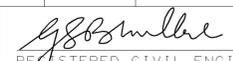
**TRAFFIC CONTROL SYSTEM  
FOR MOVING LANE CLOSURE  
ON MULTILANE HIGHWAYS**  
NO SCALE

RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15  
DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T15**

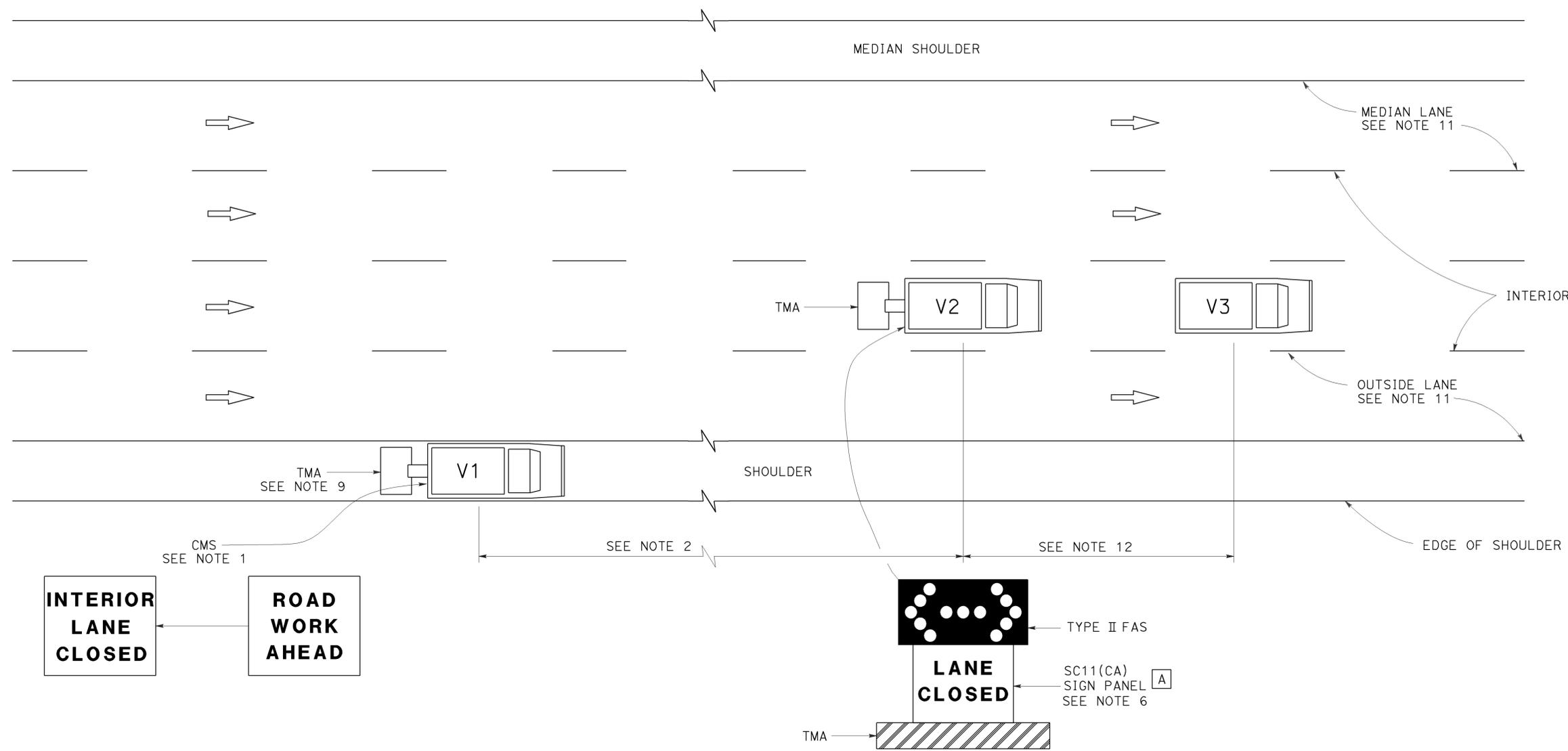
2010 REVISED STANDARD PLAN RSP T15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	24	38

  
 REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE  
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TO ACCOMPANY PLANS DATED 12-21-15



SIGN PANEL SIZE (Min)

**A** 54" x 42"

**LEGEND**

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
-  FLASHING ARROW SIGN (FAS) IN FLASHING DOUBLE ARROW MODE
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

**MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS**

**NOTES:**

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11 etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on median lane or outside lane of multilane highways, use Revised Standard Plan T15.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR MOVING LANE CLOSURE  
 ON MULTILANE HIGHWAYS**  
 NO SCALE

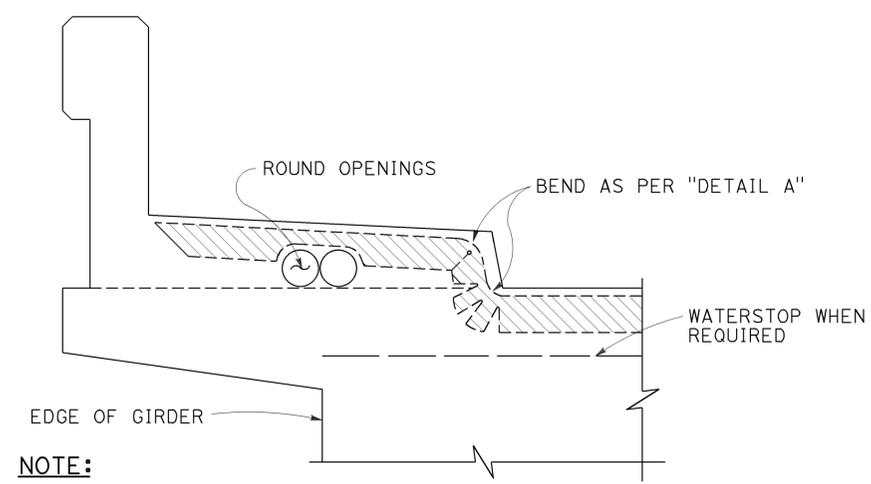
RSP T16 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T16 DATED MAY 20, 2011 - PAGE 244 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T16**

2010 REVISED STANDARD PLAN RSP T16

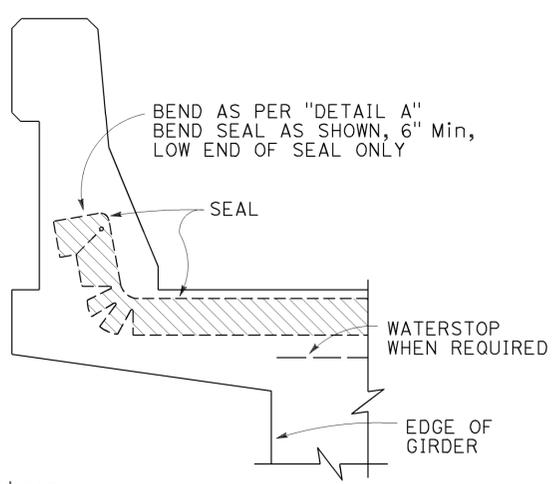
TO ACCOMPANY PLANS DATED 12-21-15

**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

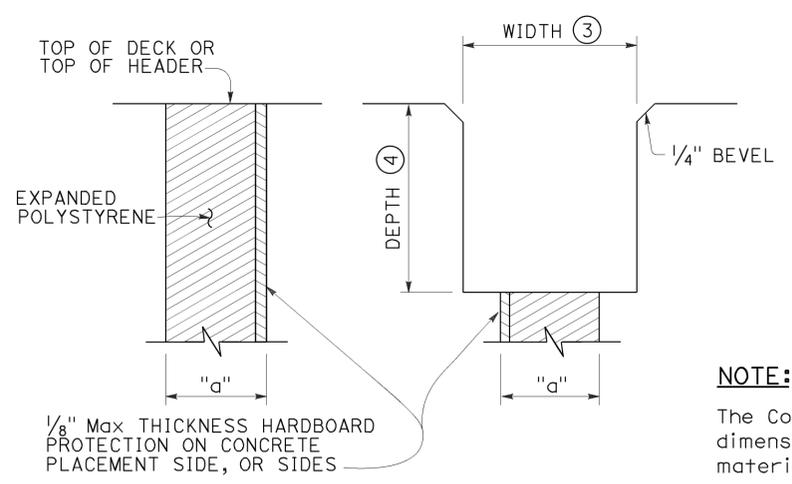


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**

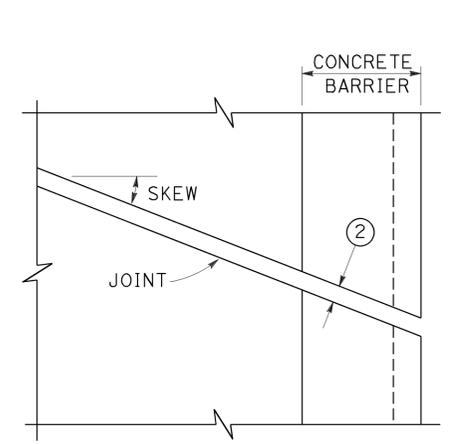


**CONCRETE BARRIER**



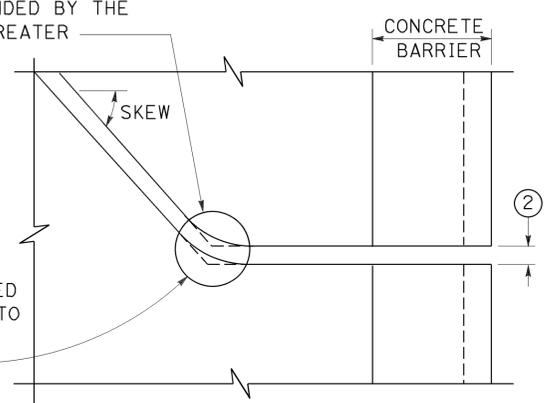
**FORMING DETAIL SAWCUT DETAIL**

**JOINT SEALS DETAILS**



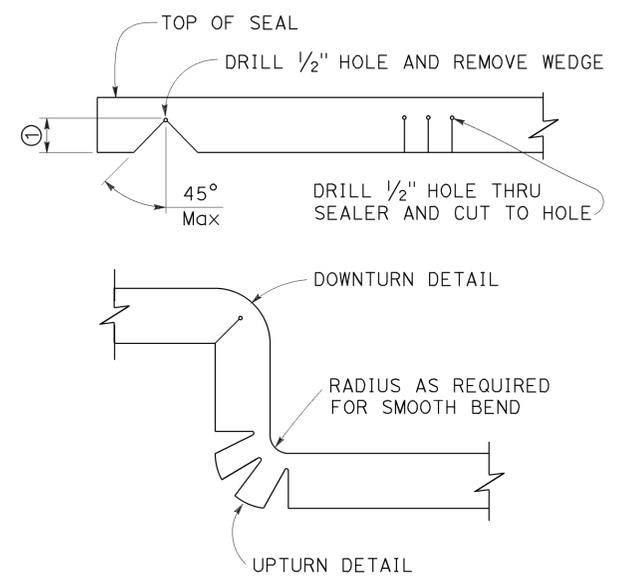
**PLAN OF JOINT (SKEW ≤ 20°)**

Min  $\phi$  RADIUS TO BE 4 TIMES UNCOMPRESSED WIDTH OF SEAL OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS GREATER



**PLAN OF JOINT (SKEW > 20°)**

IN LIEU OF SAW CUTTING, THIS AREA MAY BE BLOCKED OUT AND RECONSTRUCTED TO MATCH SAW CUTTING ON BOTH SIDES.

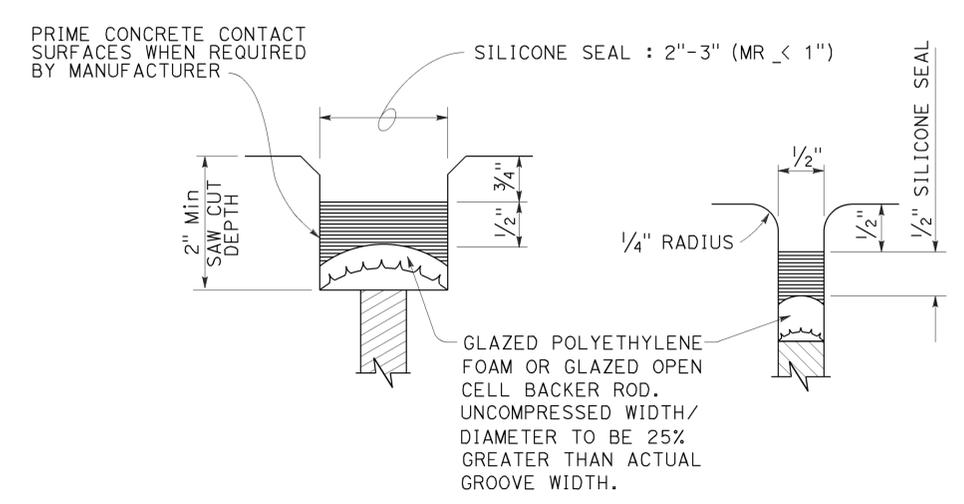


**DETAIL A**

- NOTES:**
- Make smooth cuts from the bottom of seal to 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
  - Opening in barrier to match width of sawn deck joint.
  - Sawcut groove widths shall be as ordered by the Engineer.
  - Depth of sawcut: Type A - Depth to be 2" minimum.  
Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W<sub>2</sub>) plus dimensions shown.
  - MR (movement rating) as shown on other plan sheets.
  - Other depths must be approved by the Engineer.
  - A sidewalk joint shall be covered by an expansion joint armor.

**DIMENSIONS "a" OF JOINT REQUIRED**

MOVEMENT RATING (MR) (5)	BRIDGE TYPE	"a" DIMENSION		
		DECK CONCRETE PLACED		
		WINTER	FALL-SPRING	SUMMER
2"	ALL EXCEPT CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	ALL EXCEPT CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	ALL EXCEPT CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	ALL EXCEPT CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

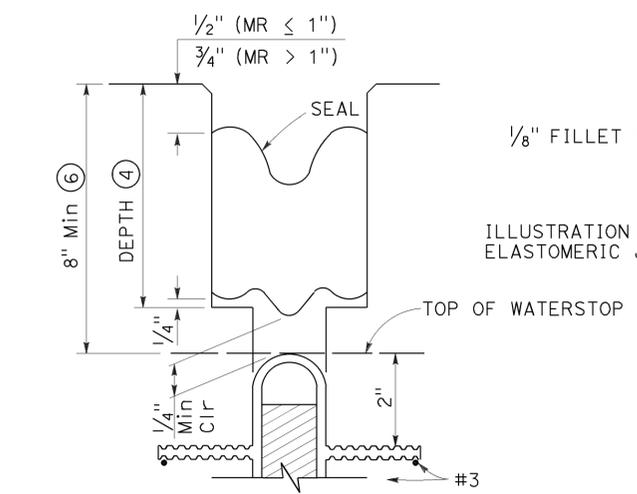


**TYPE A SEAL**

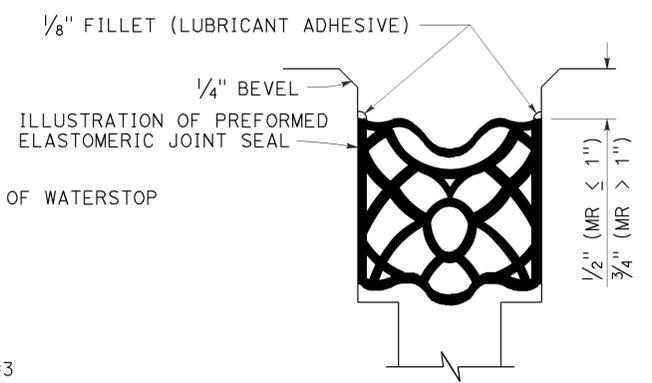
Movement rating : Silicone = 1" Max

**TYPE AL SEAL**

Longitudinal joints only



**TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W<sub>2</sub>)**



**TYPE B SEAL**

Movement Rating ≤ 2"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**JOINT SEALS**  
**(MAXIMUM MOVEMENT RATING = 2")**

NO SCALE  
 RSP B6-21 DATED OCTOBER 30, 2015 SUPERSEDES  
 STANDARD PLAN B6-21 DATED MAY 20, 2011 -  
 PAGE 283 OF THE STANDARD PLANS BOOK DATED 2010.

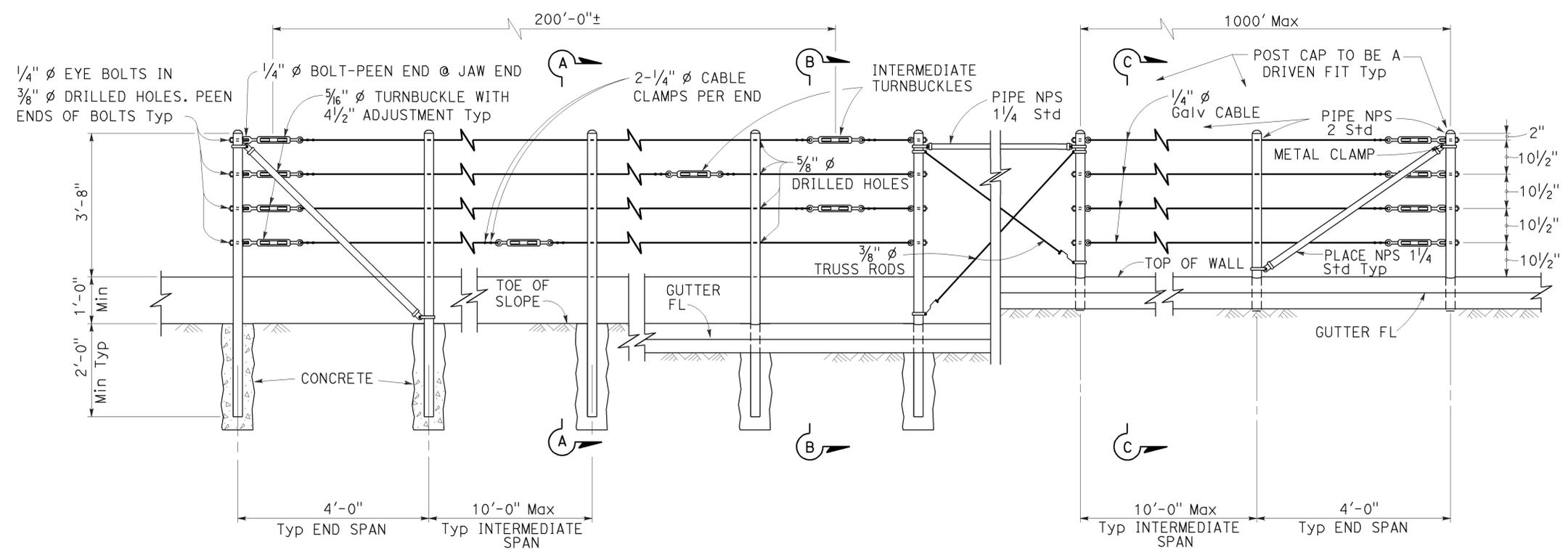
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	26	38

REGISTERED CIVIL ENGINEER

October 21, 2011  
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  
Tillett Satter  
No. C42892  
Exp. 3-31-12  
CIVIL  
STATE OF CALIFORNIA

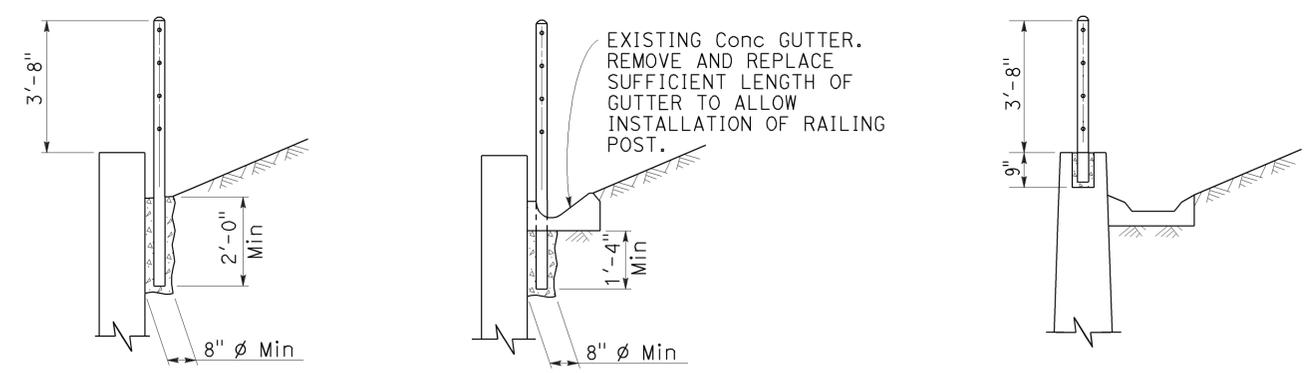


**EXISTING WALL (WITHOUT GUTTER)** Existing  
**RETAINING WALL (WITH GUTTER)** Existing  
**RETAINING WALL (WITH GUTTER)** New construction

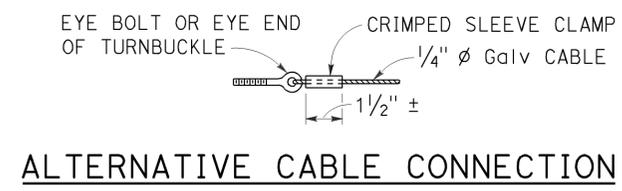
**ELEVATION**

**NOTES:**

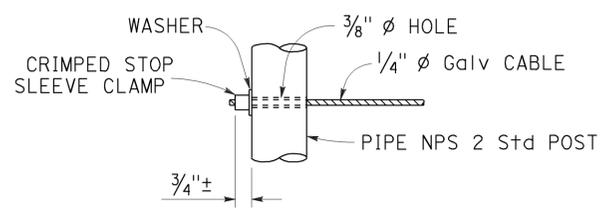
1. Maximum distance between turnbuckles shall be 200'-0"±.
2. Intermediate turnbuckles to be placed in adjacent spans.
3. Cable shall not be spliced between intermediate turnbuckles and end posts.
4. Posts to be vertical.
5. Alignment of holes in posts may vary to conform to slope of top of retaining wall.
6. The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.
7. Line posts shall be braced horizontally and trussed diagonally in both directions at intervals not to exceed 1000'.
8. Post pockets to be centered in top of wall.
9. Typical end spans, braced in both directions, shall be constructed at changes in line where the angle of deflection is 15° or more.
10. Provide thimbles at all cable loops.



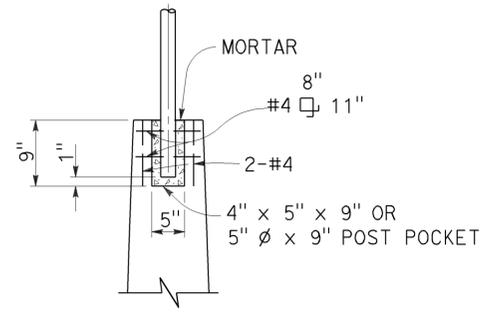
**SECTION A-A** Existing  
**SECTION B-B** Existing  
**SECTION C-C** New construction



**ALTERNATIVE CABLE CONNECTION**



**ALTERNATIVE DEAD END ANCHORAGE**



**POST POCKET**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**CABLE RAILING**

NO SCALE

RSP B11-47 DATED OCTOBER 21, 2011 SUPERSEDES STANDARD PLAN B11-47 DATED MAY 20, 2011 - PAGE 293 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP B11-47**

2010 REVISED STANDARD PLAN RSP B11-47

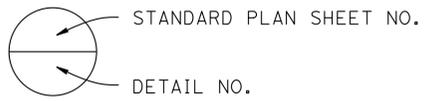
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	27	38
Edward Li		09/01/15		REGISTERED CIVIL ENGINEER DATE	
12/21/15		PLANS APPROVAL DATE			
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small>					

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

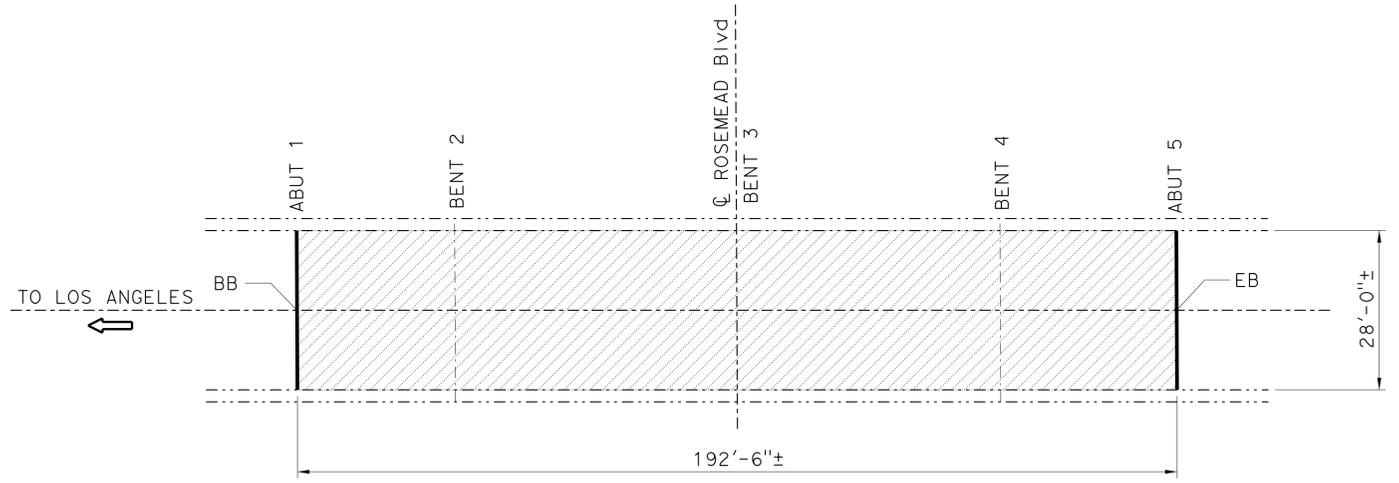
### STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
RSP B11-47	CABLE RAILING



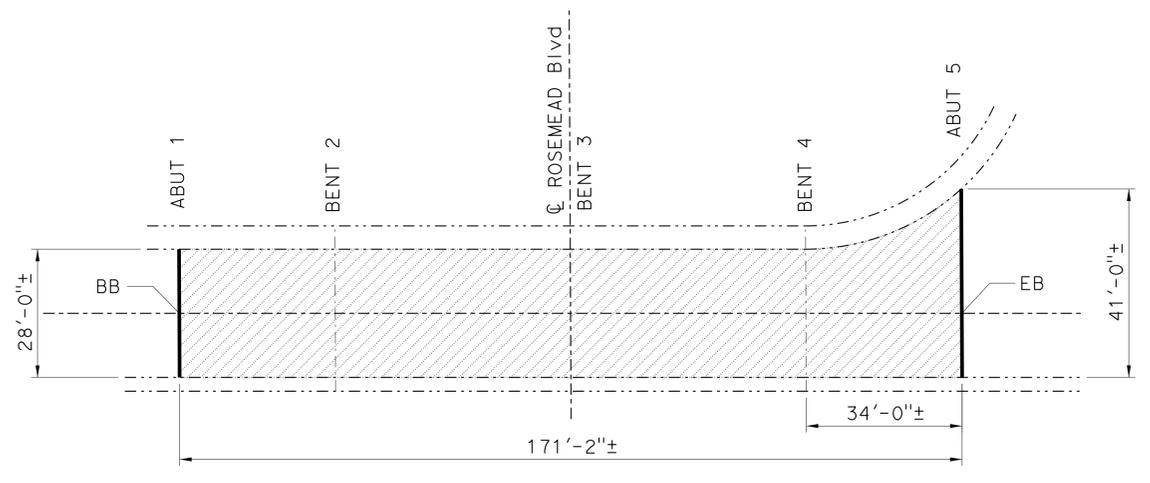
### LEGEND:

- 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.



### ROUTE 10/164 COLLECTOR SEPARATION

Br No. 53-0010S, Rte 10, PM 26.84  
NO SCALE



### ROUTE 10/164 COLLECTOR SEPARATION

Br No. 53-0010K, Rte 10, PM 26.84  
NO SCALE



ROUTE 10/164 COLLECTOR SEPARATION  
QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
RAPID SETTING CONCRETE (PATCH)	16 CF
REMOVE UNSOUND CONCRETE	16 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,390 SQFT
TREAT BRIDGE DECK	5,390 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	68 GAL
CLEAN EXPANSION JOINT	56 LF
JOINT SEAL (MR 1/2")	56 LF

ROUTE 10/164 COLLECTOR SEPARATION  
QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
RAPID SETTING CONCRETE (PATCH)	15 CF
REMOVE UNSOUND CONCRETE	15 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,020 SQFT
TREAT BRIDGE DECK	5,020 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	63 GAL
CLEAN EXPANSION JOINT	69 LF
JOINT SEAL (MR 1/2")	69 LF

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

DESIGN ENGINEER Tony Brake	DESIGN	BY Edward Li	CHECKED Tony Brake	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 10 BRIDGES GENERAL PLAN NO. 1
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang			POST MILE	
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Theresa Nedwick			Varies	

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489 PROJECT NUMBER & PHASE: 0713000449-1 CONTRACT NO.: 07-2W6604

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
4-01-14	01	12

FILE => 07-2W6601-a-gp01.dgn

USERNAME => s122436 DATE PLOTTED => 27-JAN-2016 TIME PLOTTED => 13:17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	28	38

Edward Li 09/01/15  
 REGISTERED CIVIL ENGINEER DATE

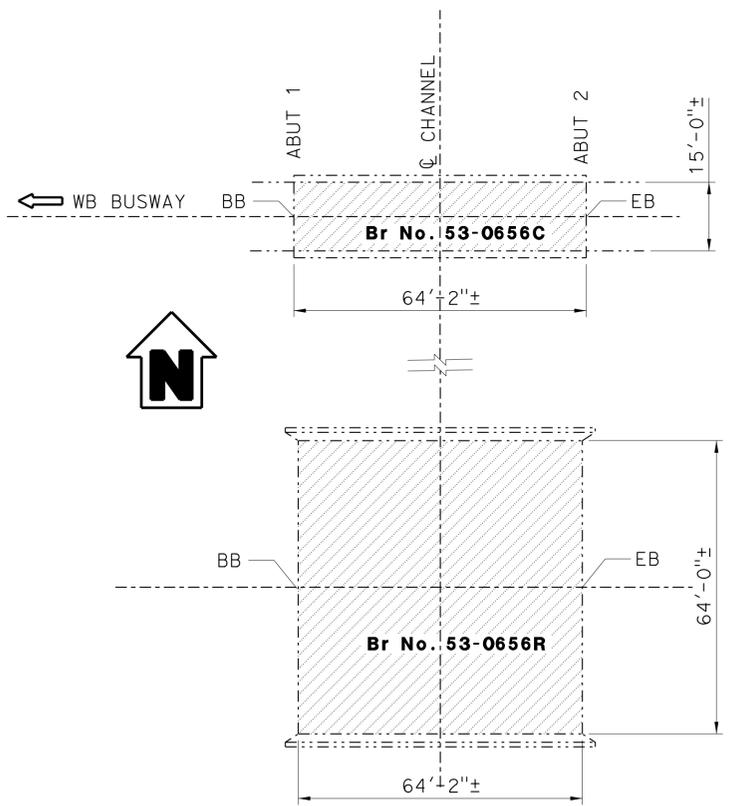
12/21/15  
 PLANS APPROVAL DATE

No. C56706  
 Exp. 06/30/17  
 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.

**LEGEND:**

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



**EATON WASH (WB BUSWAY)**  
 Br No. 53-0656C, Rte 10, PM C27.84  
 NO SCALE

**EATON WASH**  
 Br No. 53-0656R, Rte 10, PM 27.85  
 NO SCALE

EATON WASH (WB BUSWAY)	BRIDGE NO. 53-0656C
QUANTITIES	
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	3 CF
REMOVE UNSOUND CONCRETE	3 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	970 SQFT
TREAT BRIDGE DECK	970 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	13 GAL

EATON WASH	BRIDGE NO. 53-0656R
QUANTITIES	
PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	11 CF
REMOVE UNSOUND CONCRETE	11 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,110 SQFT
TREAT BRIDGE DECK	4,110 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	52 GAL

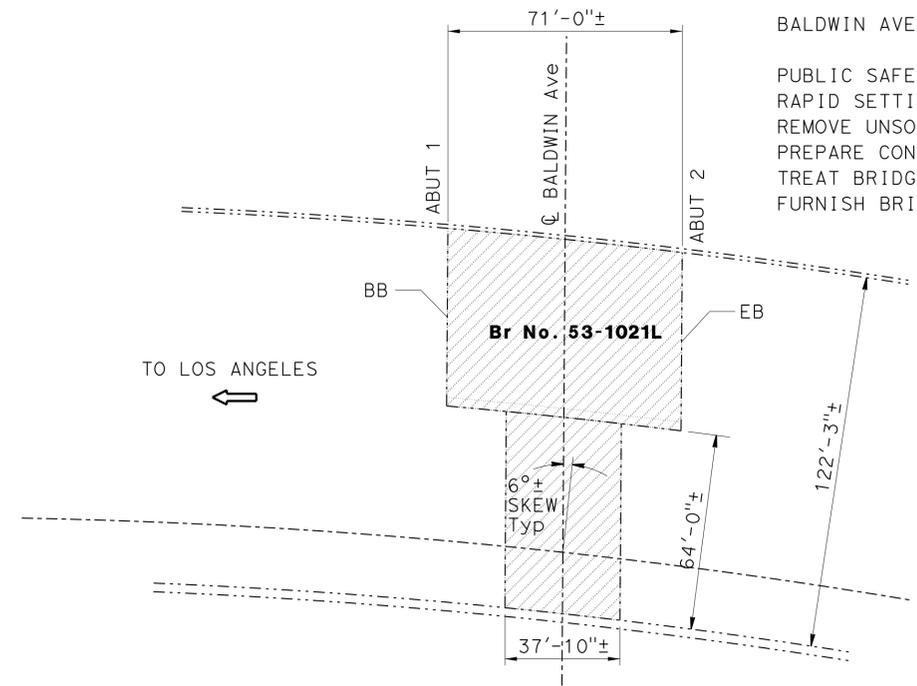
NOTE:  
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

Tony Brake DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	<b>ROUTE 10 BRIDGES</b> <b>GENERAL PLAN NO. 2</b>			
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang		Checked Edward Li		POST MILE		
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Theresa Nedwick		PLANS AND SPECS COMPARED Theresa Nedwick		Varies		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3489 PROJECT NUMBER & PHASE: 0713000449-1 CONTRACT NO.: 07-2W6604	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 02 OF 12

USERNAME => s122436 DATE PLOTTED => 27-JAN-2016 TIME PLOTTED => 13:18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	29	38

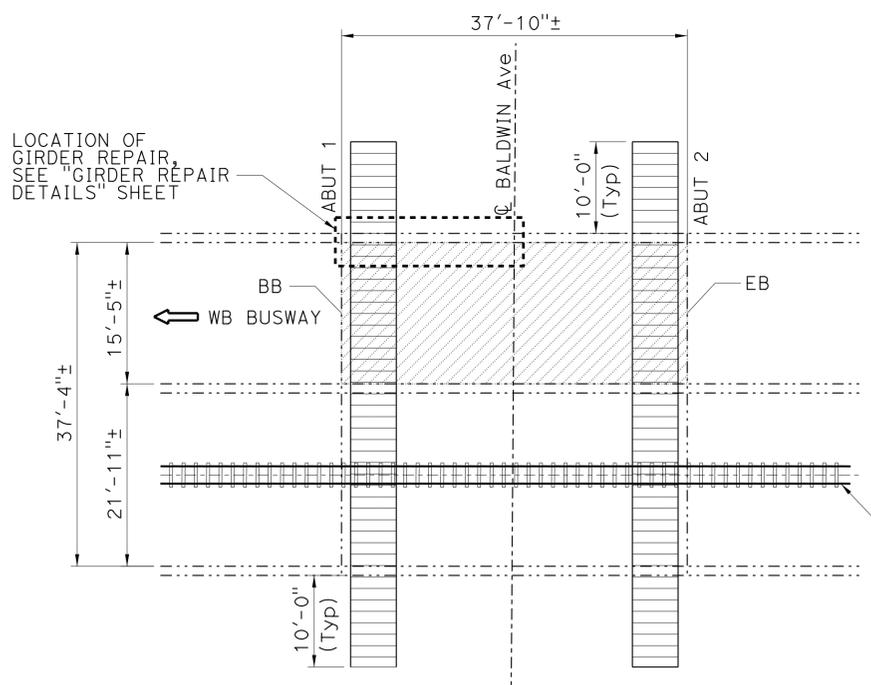
Edward Li 09/01/15  
 REGISTERED CIVIL ENGINEER DATE  
 12/21/15  
 PLANS APPROVAL DATE  
 No. C56706  
 Exp. 06/30/17  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



BALDWIN AVENUE UC BRIDGE NO. 53-1021L

QUANTITIES		LUMP SUM
PUBLIC SAFETY PLAN		17 CF
RAPID SETTING CONCRETE (PATCH)		17 CF
REMOVE UNSOUND CONCRETE		6,570 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE		6,570 SQFT
TREAT BRIDGE DECK		83 GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL		

**BALDWIN AVENUE UC**  
 Br No. 53-1021L, Rte 10, PM 27.96  
 NO SCALE



BALDWIN AVENUE UC WB BUSWAY BRIDGE NO. 53-1021C

QUANTITIES		LUMP SUM
LEAD COMPLIANCE PLAN		LUMP SUM
WORK AREA MONITORING (BRIDGE)		LUMP SUM
PUBLIC SAFETY PLAN		LUMP SUM
RAPID SETTING CONCRETE (PATCH)		2 CF
REMOVE UNSOUND CONCRETE		2 CF
PREPARE CONCRETE BRIDGE DECK SURFACE		590 SQFT
TREAT BRIDGE DECK		590 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		8 GAL
HEAT STRAIGHTEN STEEL GIRDERS		LUMP SUM
CLEAN AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)		LUMP SUM

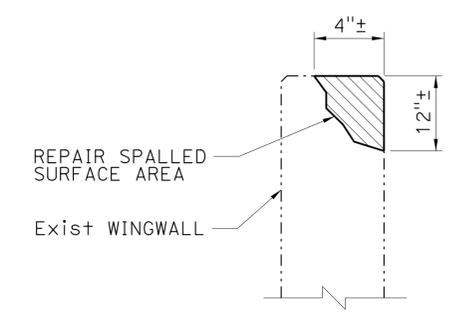
**BALDWIN AVENUE UC WB BUSWAY**  
 Br No. 53-1021C, Rte 10, PM C27.96  
 NO SCALE

NOTE:  
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXEMPT PROJECT PER UTILITY POLICY, UTILITIES ARE NOT SHOWN.

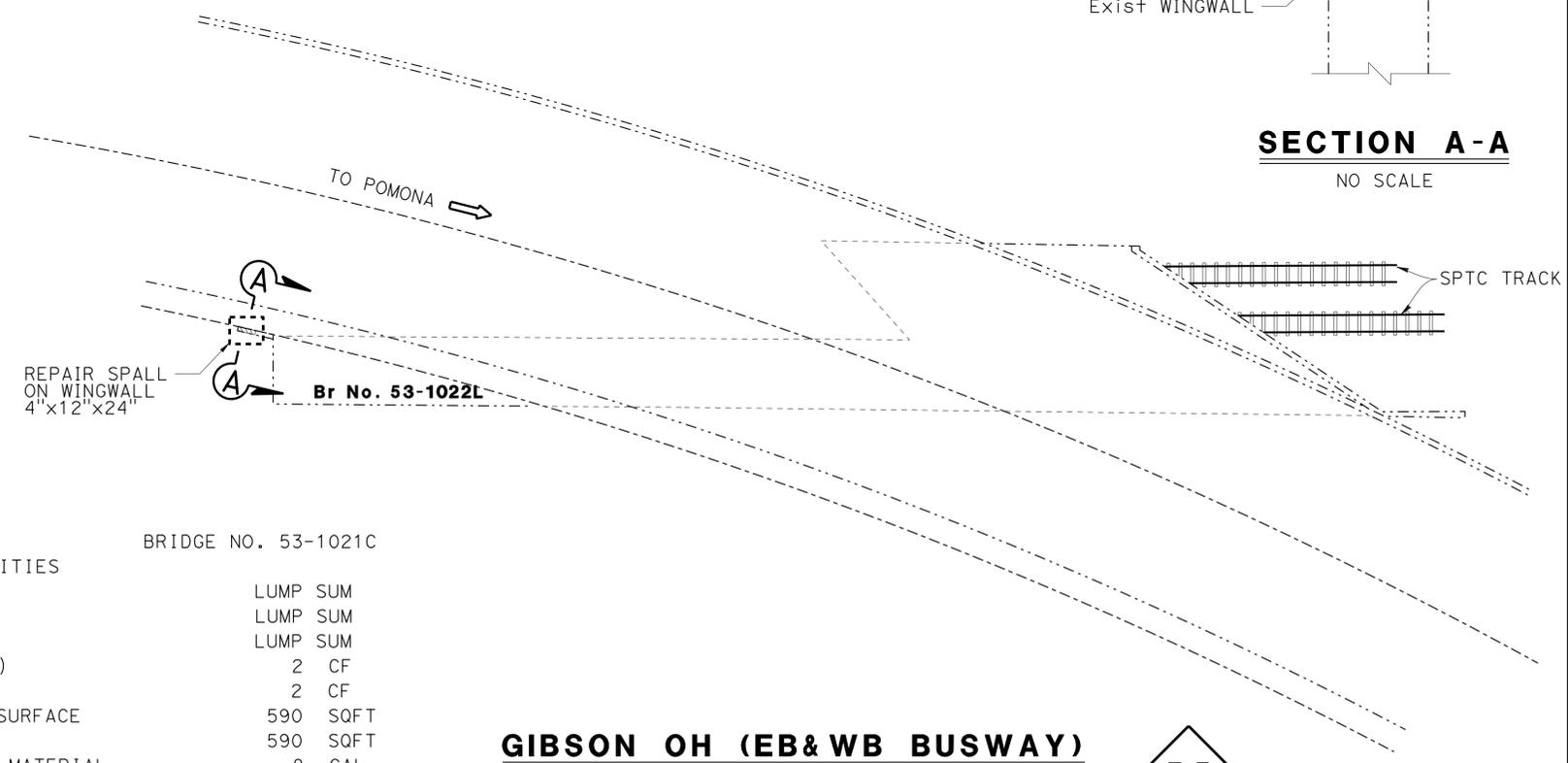
- LEGEND:**
- Indicates existing.
  - ➔ Indicates direction of traffic.
  - ▨ Indicates limits of prepare concrete bridge deck surface and place high molecular weight methacrylate.
  - ▩ Indicates repair spalled surfaced area.
  - ▭ Indicates limits of temporary Covered Pedestrial Walkway underneath structure along Baldwin Ave.

GIBSON OH (EB & WB BUSWAY) BRIDGE NO. 53-1022L

QUANTITIES	
REPAIR SPALLED SURFACE AREA	2 SQFT



**SECTION A-A**  
 NO SCALE



**GIBSON OH (EB&WB BUSWAY)**  
 Br No. 53-1022L, Rte 10, PM C28.01  
 NO SCALE

DESIGN BY Edward Li	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA	DIVISION OF MAINTENANCE	BRIDGE NO. Various	ROUTE 10 BRIDGES GENERAL PLAN NO. 3
DETAILS BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang	DEPARTMENT OF TRANSPORTATION	STRUCTURE MAINTENANCE DESIGN	POST MILE Varies	
QUANTITIES BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Theresa Nedwick	PLANS AND SPECS COMPARED	Theresa Nedwick	REVISION DATES	

Tony Brake DESIGN ENGINEER  
 STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)  
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 UNIT: 3489 PROJECT NUMBER & PHASE: 0713000449-1 CONTRACT NO.: 07-2W6604  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 REVISION DATES: 4-01-14 SHEET 03 OF 12  
 FILE => 07-2W6601-a-gp03.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	30	38

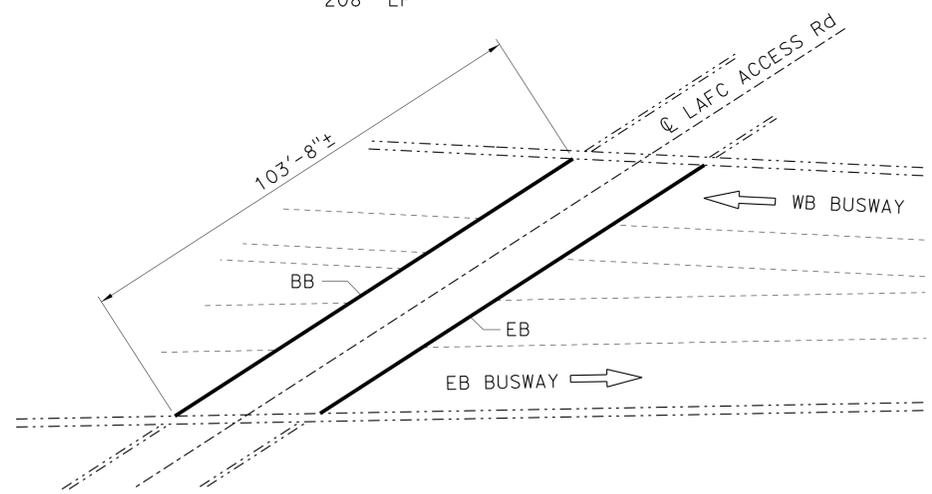
Edward Li 09/01/15  
 REGISTERED CIVIL ENGINEER DATE  
 12/21/15  
 PLANS APPROVAL DATE  
 No. C56706  
 Exp. 06/30/17  
 CIVIL  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

**LEGEND:**

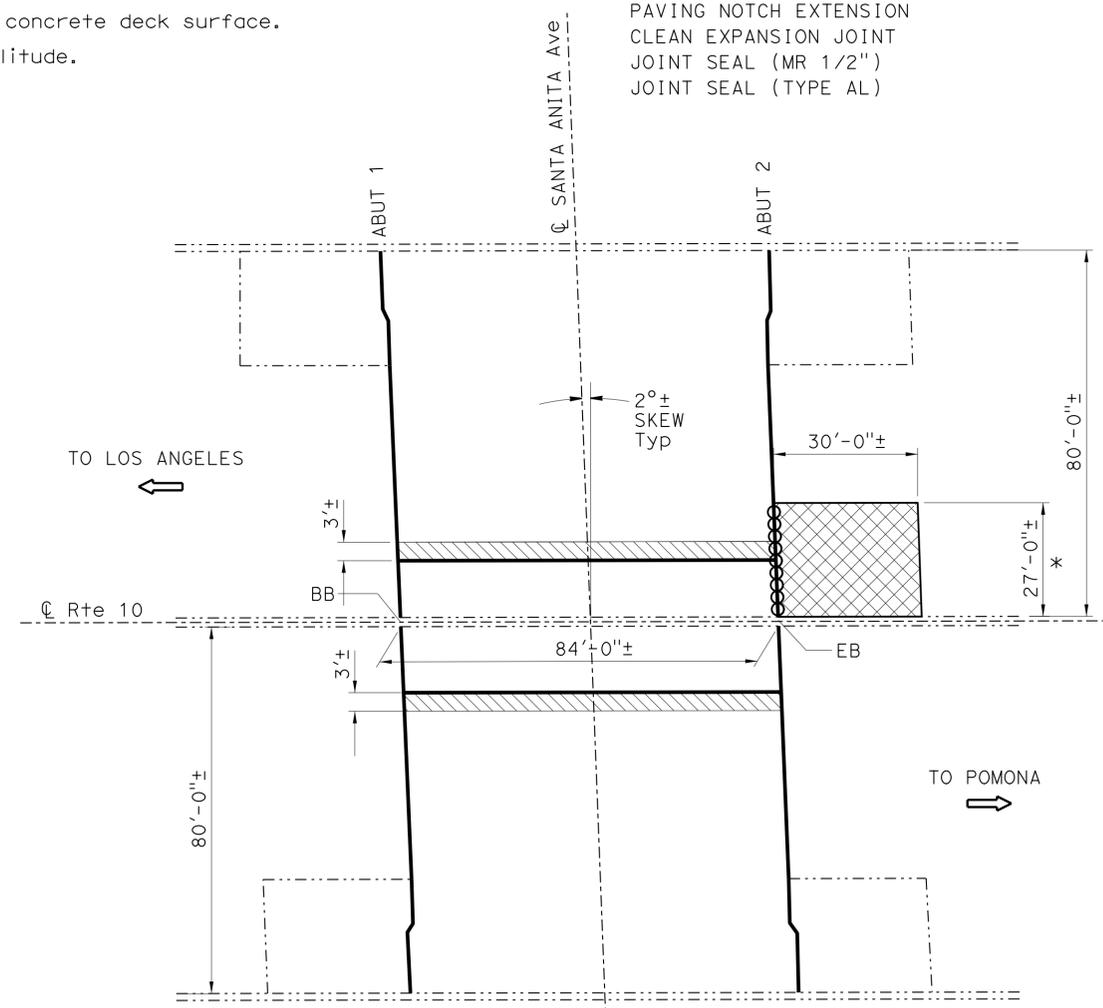
- Indicates existing.
- ➔ Indicates direction of traffic.
- /— Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch) as directed by the Engineer.
- ⊖ Indicates location of placement of new joint seal.
- ✱ Indicates limits of paving notch extension.
- ▨ Indicates limits of remove existing PCC and AC approach and place new Structure Approach Type R(30D). For details, see "STRUCTURE APPROACH TYPE R(30D)" sheet.
- ▧ Indicates limits of remove 3 inches deep concrete deck surface. Preserve existing reinforcements. Roughen concrete deck surface to 1/4" amplitude. Place Structural Concrete, Bridge (RSC).

SANTA ANITA AVENUE UC		BRIDGE NO. 53-0658	
QUANTITIES			
RAPID SETTING CONCRETE (PATCH)		4	CF
REMOVE CONCRETE DECK SURFACE		504	SQFT
REMOVE UNSOUND CONCRETE		4	CF
STRUCTURAL CONCRETE, BRIDGE (RSC)		5	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)		36	CY
PAVING NOTCH EXTENSION		27	CF
CLEAN EXPANSION JOINT		461	LF
JOINT SEAL (MR 1/2")		320	LF
JOINT SEAL (TYPE AL)		168	LF

L AFC ACCESS ROAD		BRIDGE NO. 53-2636	
QUANTITIES			
RAPID SETTING CONCRETE (PATCH)		2	CF
REMOVE UNSOUND CONCRETE		2	CF
CLEAN EXPANSION JOINT		208	LF
JOINT SEAL (MR 1/2")		208	LF



**L AFC ACCESS ROAD**  
 Br No. 53-2636, Rte 10, PM C28.32  
 NO SCALE



**SANTA ANITA AVENUE UC**  
 Br No. 53-0658, Rte 10, PM 28.67  
 NO SCALE

NOTE:  
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXEMPT PROJECT PER UTILITY POLICY, UTILITIES ARE NOT SHOWN.

Tony Brake DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 10 BRIDGES GENERAL PLAN NO. 4
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang			POST MILE	Varies	
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Theresa Nedwick			PLANS AND SPECS COMPARED	Theresa Nedwick	

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 UNIT: 3489 PROJECT NUMBER & PHASE: 0713000449-1 CONTRACT NO.: 07-2W6604  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 REVISION DATES: 4-01-14 SHEET 04 OF 12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	31	38

Edward Li 09/01/15  
 REGISTERED CIVIL ENGINEER DATE  
 12/21/15  
 PLANS APPROVAL DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 EDWARD GUOJUN LI  
 No. C56706  
 Exp. 06/30/17  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

LEXINGTON AVENUE UC BRIDGE NO. 53-0883

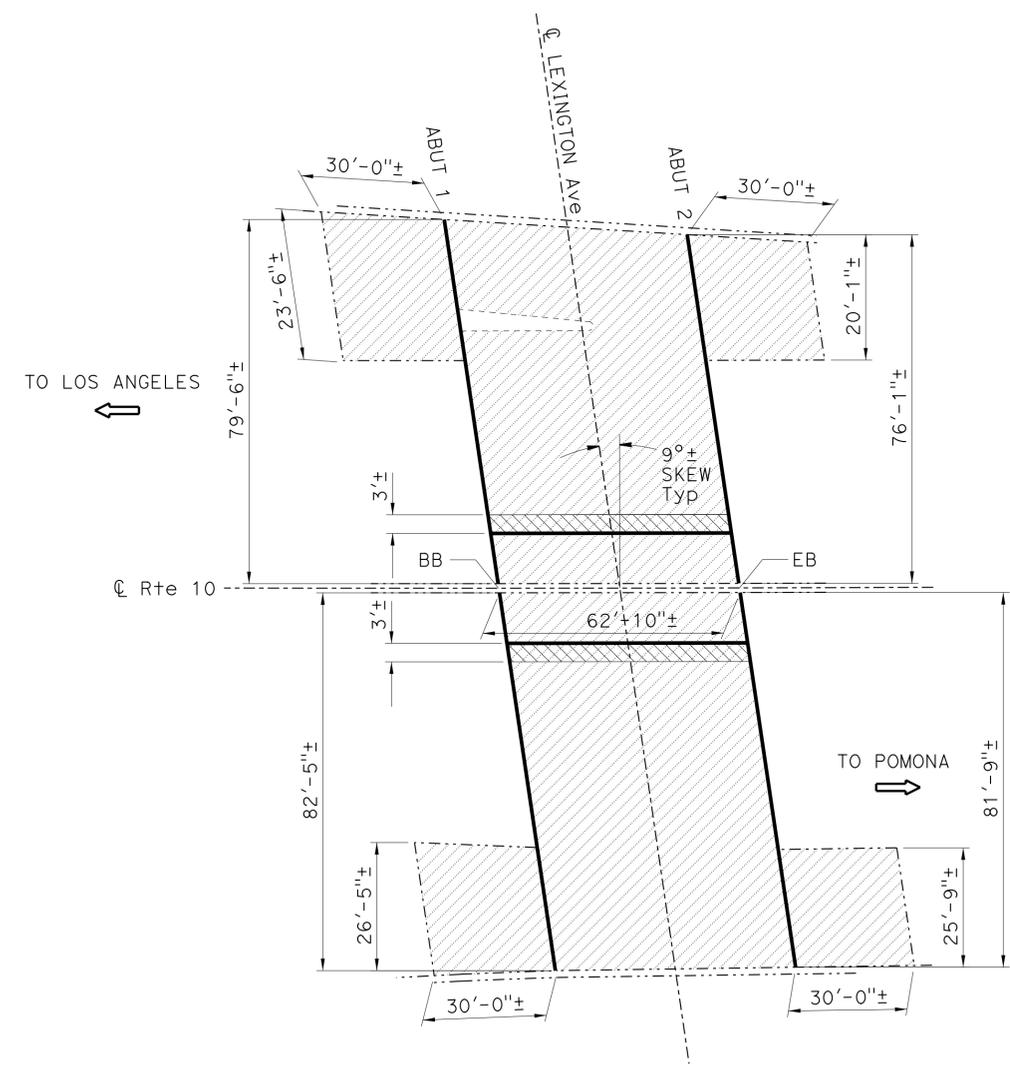
	QUANTITIES	LUMP SUM
PUBLIC SAFETY PLAN		
RAPID SETTING CONCRETE (PATCH)		37 CF
REMOVE CONCRETE DECK SURFACE		378 SQFT
REMOVE UNSOUND CONCRETE		37 CF
PREPARE CONCRETE BRIDGE DECK SURFACE		12,933 SQFT
TREAT BRIDGE DECK		12,933 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		162 GAL
STRUCTURAL CONCRETE, BRIDGE (RSC)		4 CY
CLEAN EXPANSION JOINT		446 LF
JOINT SEAL (MR 1/2")		320 LF
JOINT SEAL (TYPE AL)		126 LF

**LEGEND:**

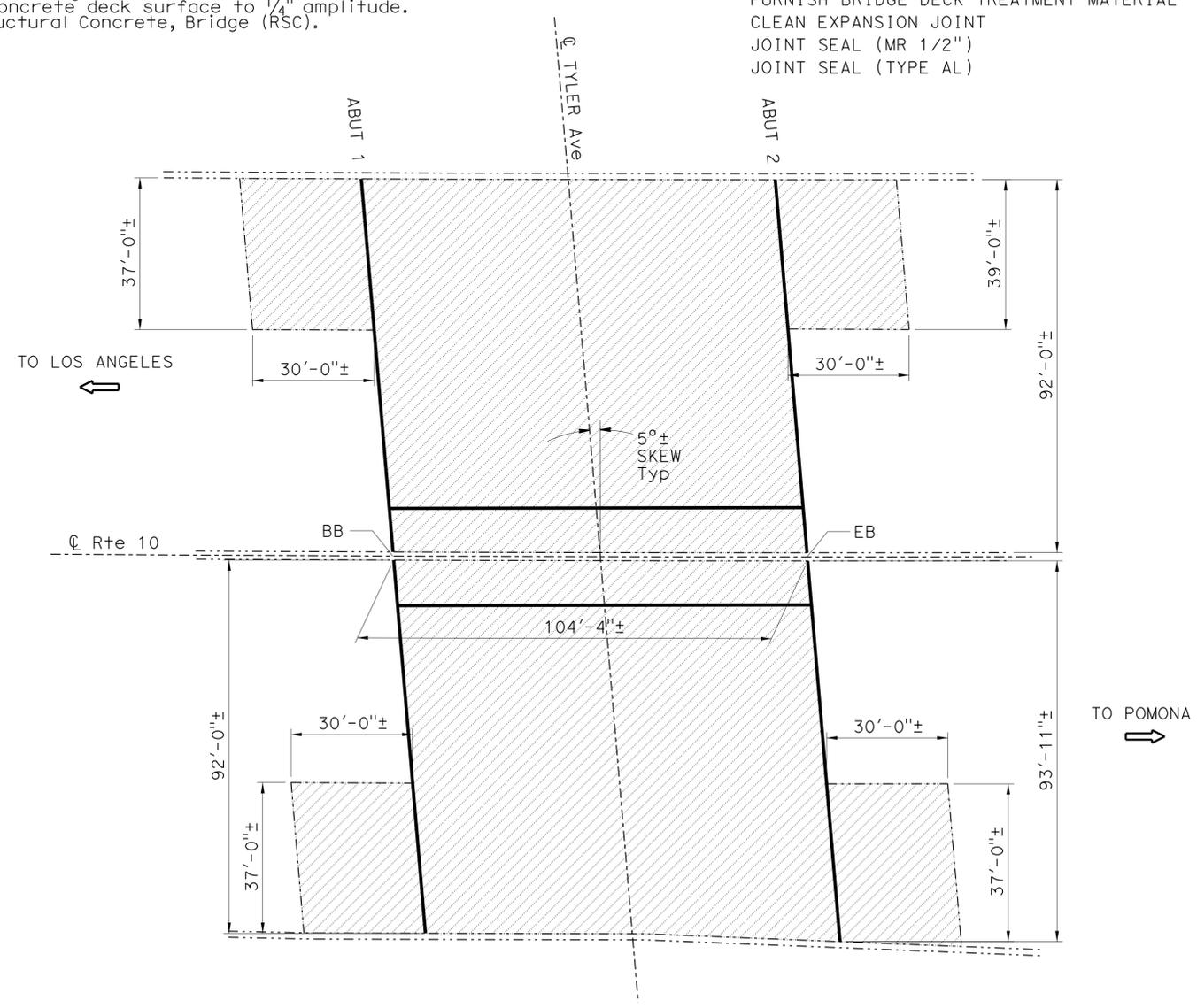
- Indicates existing.
- Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and place high molecular weight methacrylate.
-  Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch) as directed by the Engineer.
-  Indicates limits of remove 3 inches deep concrete deck surface. Preserve existing reinforcements. Roughen concrete deck surface to 1/4" amplitude. Place Structural Concrete, Bridge (RSC).

TYLER AVENUE UC BRIDGE NO. 53-0659

	QUANTITIES	LUMP SUM
PUBLIC SAFETY PLAN		
RAPID SETTING CONCRETE (PATCH)		64 CF
REMOVE UNSOUND CONCRETE		64 CF
PREPARE CONCRETE BRIDGE DECK SURFACE		23,800 SQFT
TREAT BRIDGE DECK		23,800 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		300 GAL
CLEAN EXPANSION JOINT		579 LF
JOINT SEAL (MR 1/2")		370 LF
JOINT SEAL (TYPE AL)		209 LF



**LEXINGTON AVENUE UC**  
 Br No. 53-0883, Rte 10, PM 28.84  
 NO SCALE



**TYLER AVENUE UC**  
 Br No. 53-0659, Rte 10, PM 29.03  
 NO SCALE

NOTE:  
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXEMPT PROJECT PER UTILITY POLICY, UTILITIES ARE NOT SHOWN.

DESIGN	BY Edward Li	CHECKED Tony Brake	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 10 BRIDGES GENERAL PLAN NO. 5	
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang			CHECKED Edward Li		Various
QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Theresa Nedwick			CHECKED Theresa Nedwick		Varies

Tony Brake  
 DESIGN ENGINEER  
 STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)  
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 UNIT: 3489  
 PROJECT NUMBER & PHASE: 0713000449-1  
 CONTRACT NO.: 07-2W6604  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 REVISION DATES  
 SHEET 05 OF 12

MEEKER ROAD UC BRIDGE NO. 53-1029

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM	
RAPID SETTING CONCRETE (PATCH)	47	CF
REMOVE UNSOUND CONCRETE	47	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	16,850	SQFT
TREAT BRIDGE DECK	16,850	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	211	GAL
CLEAN EXPANSION JOINT	525	LF
JOINT SEAL (MR 1/2")	413	LF
JOINT SEAL (TYPE AL)	112	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.

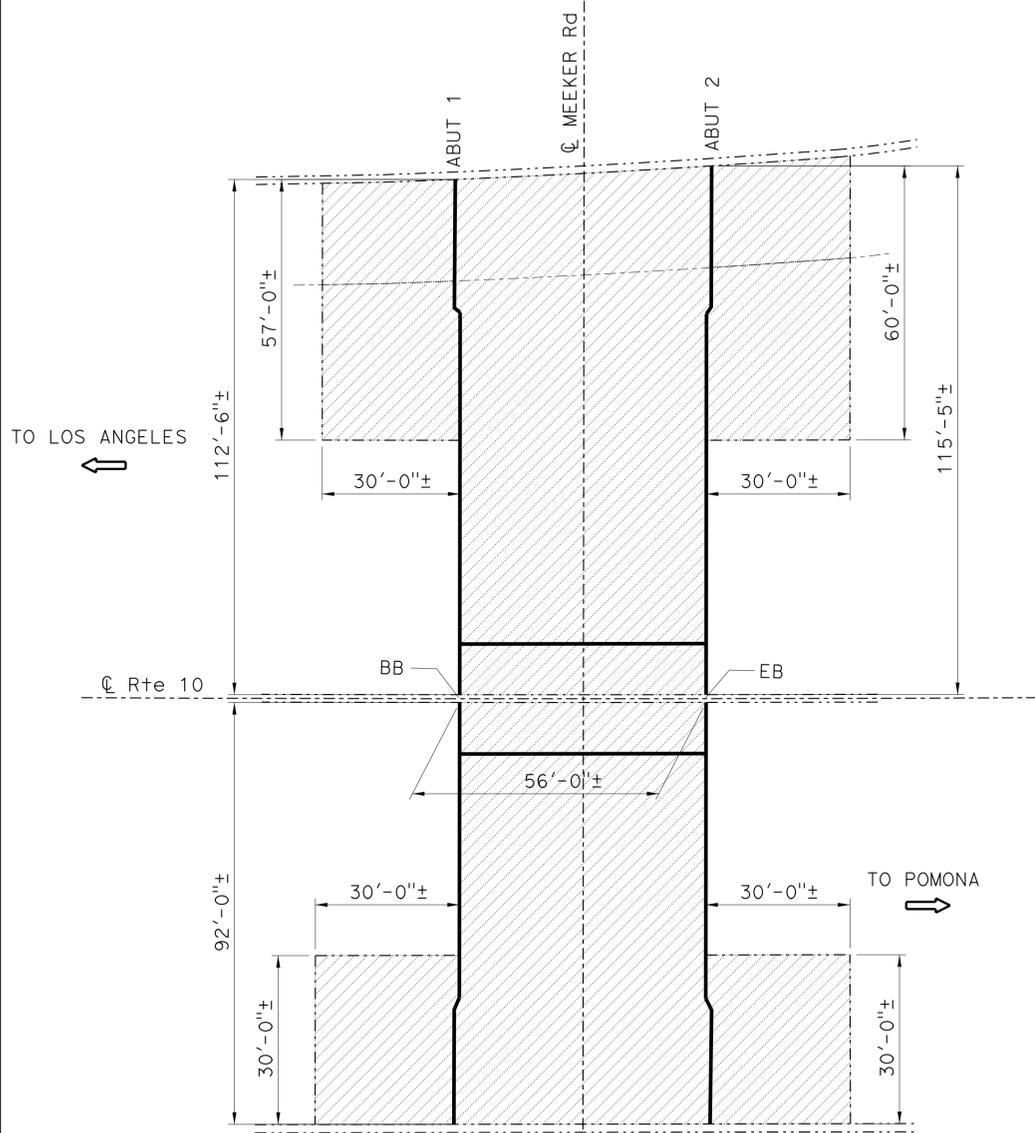
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	32	38

Edward Li 09/01/15  
 REGISTERED CIVIL ENGINEER DATE

12/21/15  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 EDWARD GUOJUN LI  
 No. C56706  
 Exp. 06/30/17  
 CIVIL  
 STATE OF CALIFORNIA

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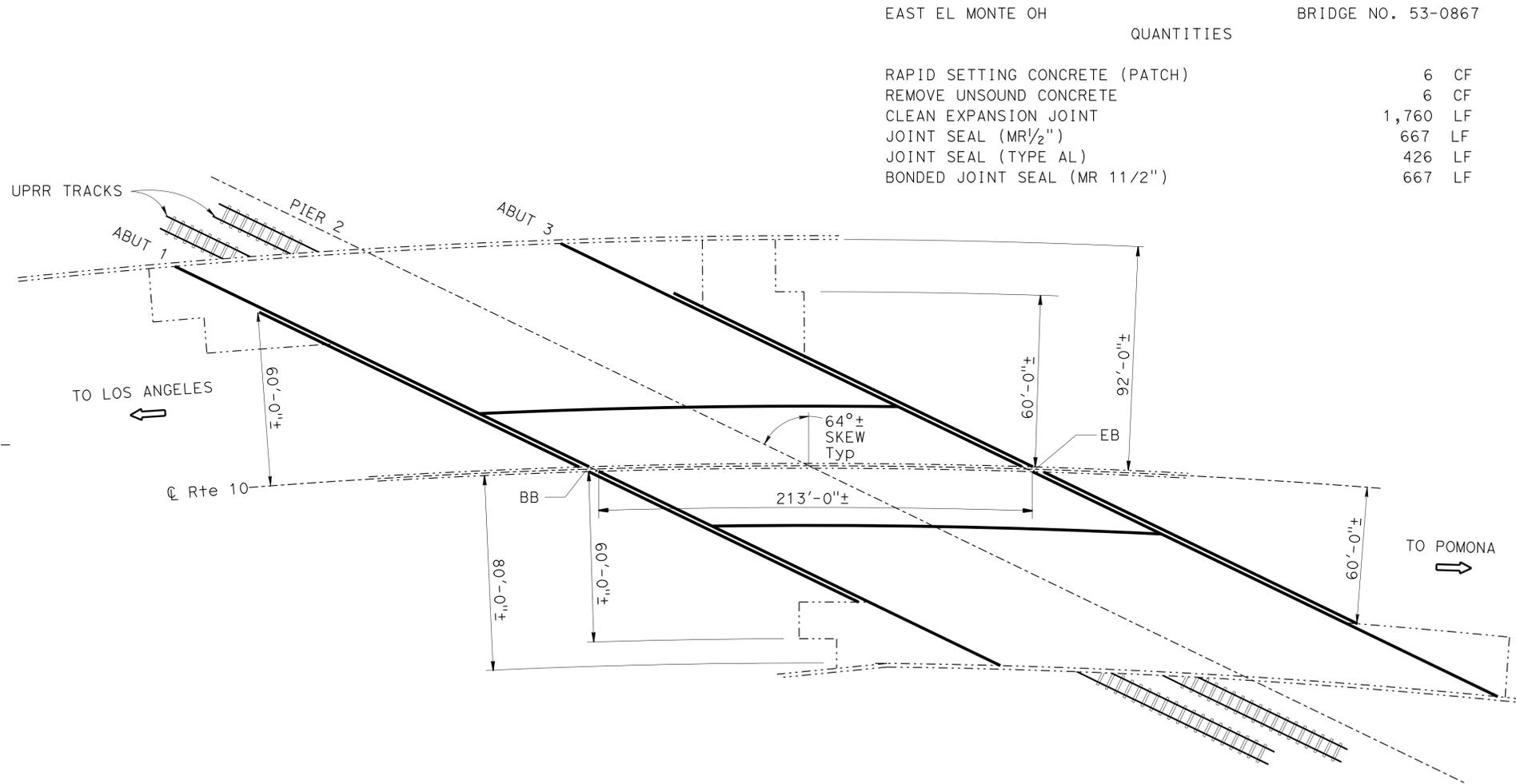
**MEEKER ROAD UC**

Br No. 53-1029, Rte 10, PM 29.34  
 NO SCALE



TO LOS ANGELES ←

TO POMONA →



**EAST EL MONTE OH**

Br No. 53-0867, Rte 10, PM 29.81  
 NO SCALE



EAST EL MONTE OH

QUANTITIES

BRIDGE NO. 53-0867

RAPID SETTING CONCRETE (PATCH)	6	CF
REMOVE UNSOUND CONCRETE	6	CF
CLEAN EXPANSION JOINT	1,760	LF
JOINT SEAL (MR 1/2")	667	LF
JOINT SEAL (TYPE AL)	426	LF
BONDED JOINT SEAL (MR 1 1/2")	667	LF

NOTE:  
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DESIGN	BY Edward Li	CHECKED Tony Brake	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 HongTien Tran	SPECIFICATIONS	BY Theresa Nedwick

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Varies

ROUTE 10 BRIDGES  
 GENERAL PLAN NO. 6

UNIT: 3489  
 PROJECT NUMBER & PHASE: 0713000449-1 CONTRACT NO.: 07-2W6604

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
4-01-14	06	12

USERNAME => s122436 DATE PLOTTED => 27-JAN-2016 TIME PLOTTED => 13:18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	33	38

Edward Li 09/01/15  
REGISTERED CIVIL ENGINEER DATE

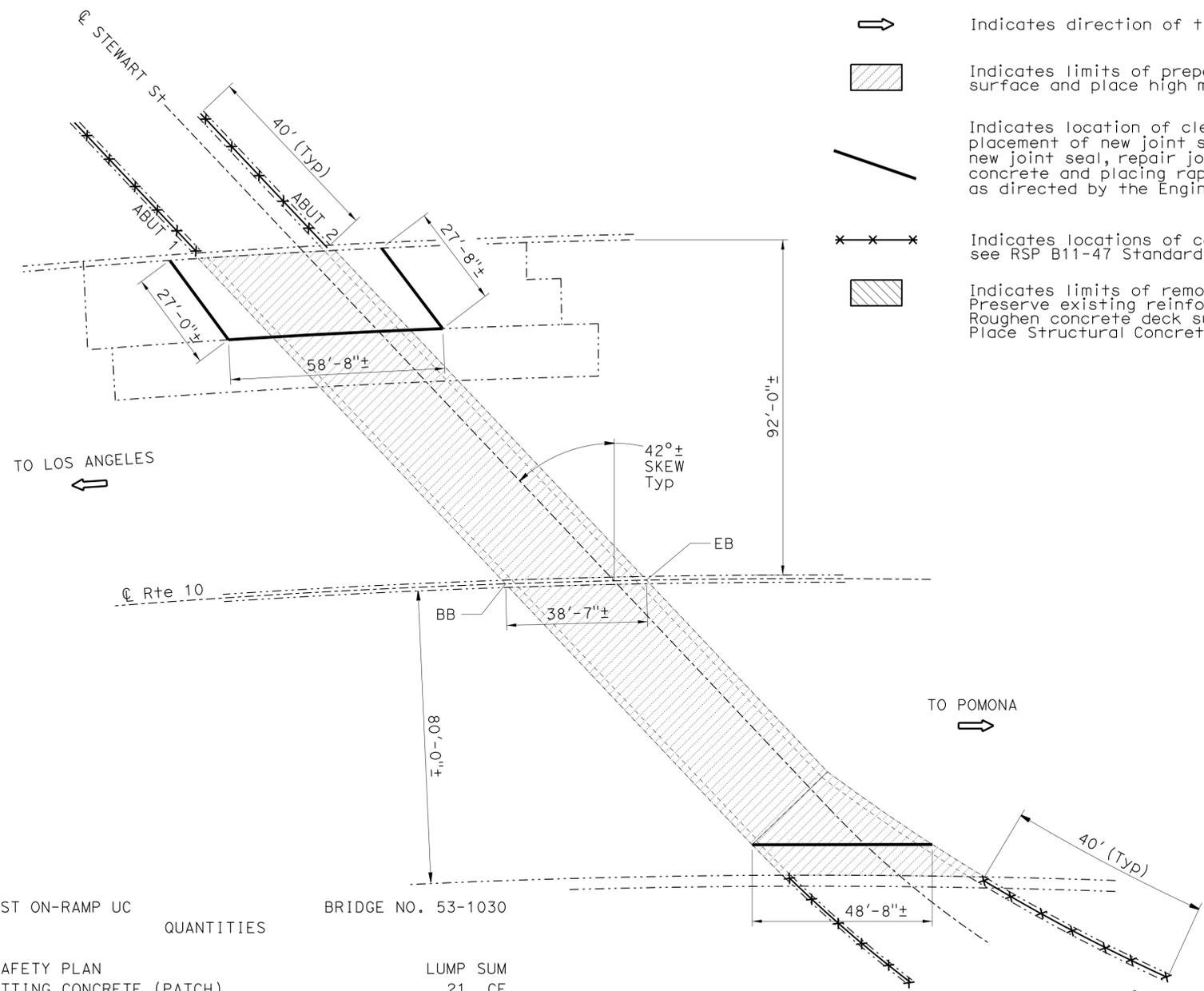
12/21/15  
PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER  
EDWARD GUOJUN LI  
No. C56706  
Exp. 06/30/17  
CIVIL  
STATE OF CALIFORNIA

**LEGEND:**

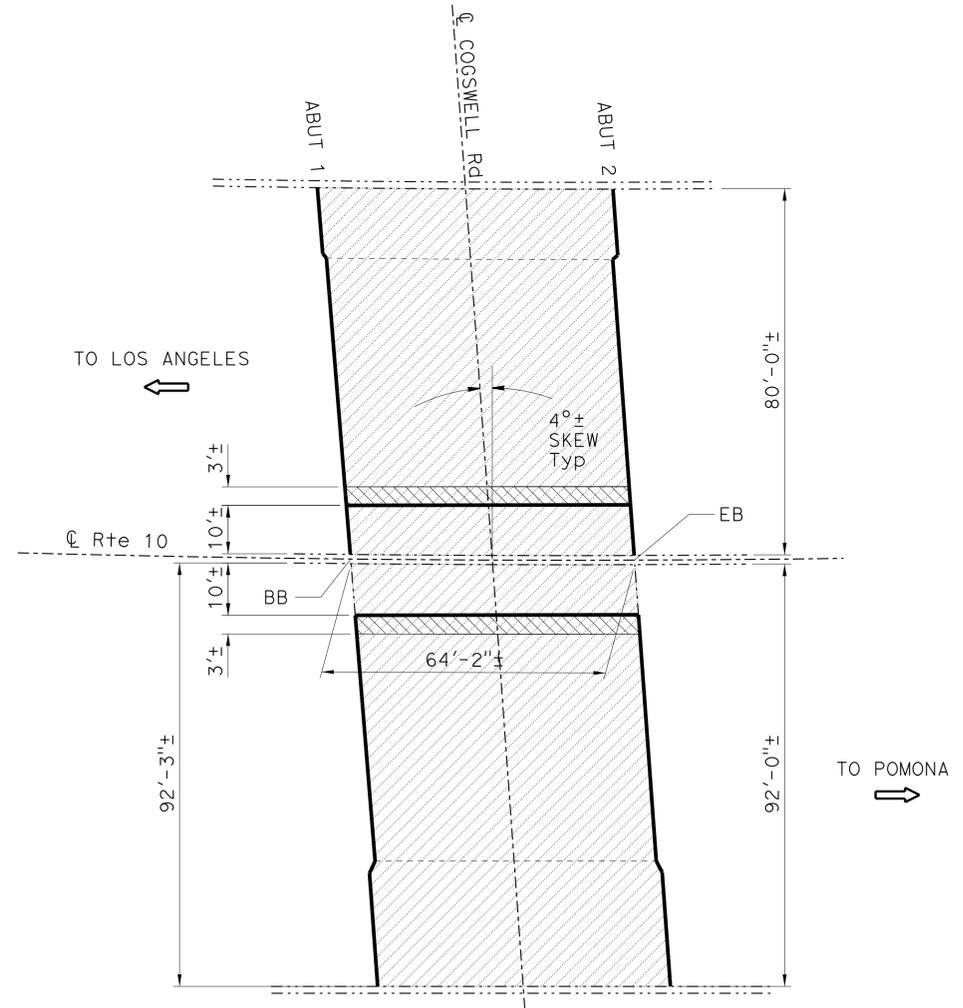
- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and place high molecular weight methacrylate.
- /— Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete (patch) as directed by the Engineer.
- ××× Indicates locations of cable railing, see RSP B11-47 Standard Plan.
- ▨ Indicates limits of remove 3 inches deep concrete deck surface. Preserve existing reinforcements. Roughen concrete deck surface to 1/4" amplitude. Place Structural Concrete, Bridge (RSC).



STEWART ST ON-RAMP UC

QUANTITIES	LUMP SUM
PUBLIC SAFETY PLAN	21 CF
RAPID SETTING CONCRETE (PATCH)	21 CF
REMOVE UNSOUND CONCRETE	6,710 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	6,710 SQFT
TREAT BRIDGE DECK	84 GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL	168 LF
CLEAN EXPANSION JOINT	60 LF
JOINT SEAL (MR 1/2")	108 LF
JOINT SEAL (TYPE AL)	160 LF
CABLE RAILING	

**STEWART ST ON-RAMP UC**  
Br No. 53-1030, Rte 10, PM 29.90  
NO SCALE



**COGSWELL ROAD UC**  
Br No. 53-0662, Rte 10, PM 30.13  
NO SCALE

COGSWELL ROAD UC

QUANTITIES	LUMP SUM
PUBLIC SAFETY PLAN	32 CF
RAPID SETTING CONCRETE (PATCH)	386 SQFT
REMOVE CONCRETE DECK SURFACE	32 CF
REMOVE UNSOUND CONCRETE	11,060 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	11,060 SQFT
TREAT BRIDGE DECK	139 GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL	4 CY
STRUCTURAL CONCRETE, BRIDGE (RSC)	454 LF
CLEAN EXPANSION JOINT	324 LF
JOINT SEAL (MR 1/2")	130 LF
JOINT SEAL (TYPE AL)	

NOTE:  
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DESIGN	BY Edward Li	CHECKED Tony Brake	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 10 BRIDGES GENERAL PLAN NO. 7	
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang			CHECKED Edward Li		Various
QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Theresa Nedwick			CHECKED Theresa Nedwick		Varies

UNIT: 3489  
PROJECT NUMBER & PHASE: 0713000449-1 CONTRACT NO.: 07-2W6604

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
4-01-14	07	12

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

FILE => 07-2W6601-a-gp07.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	34	38

Edward Li 09/01/15  
 REGISTERED CIVIL ENGINEER DATE

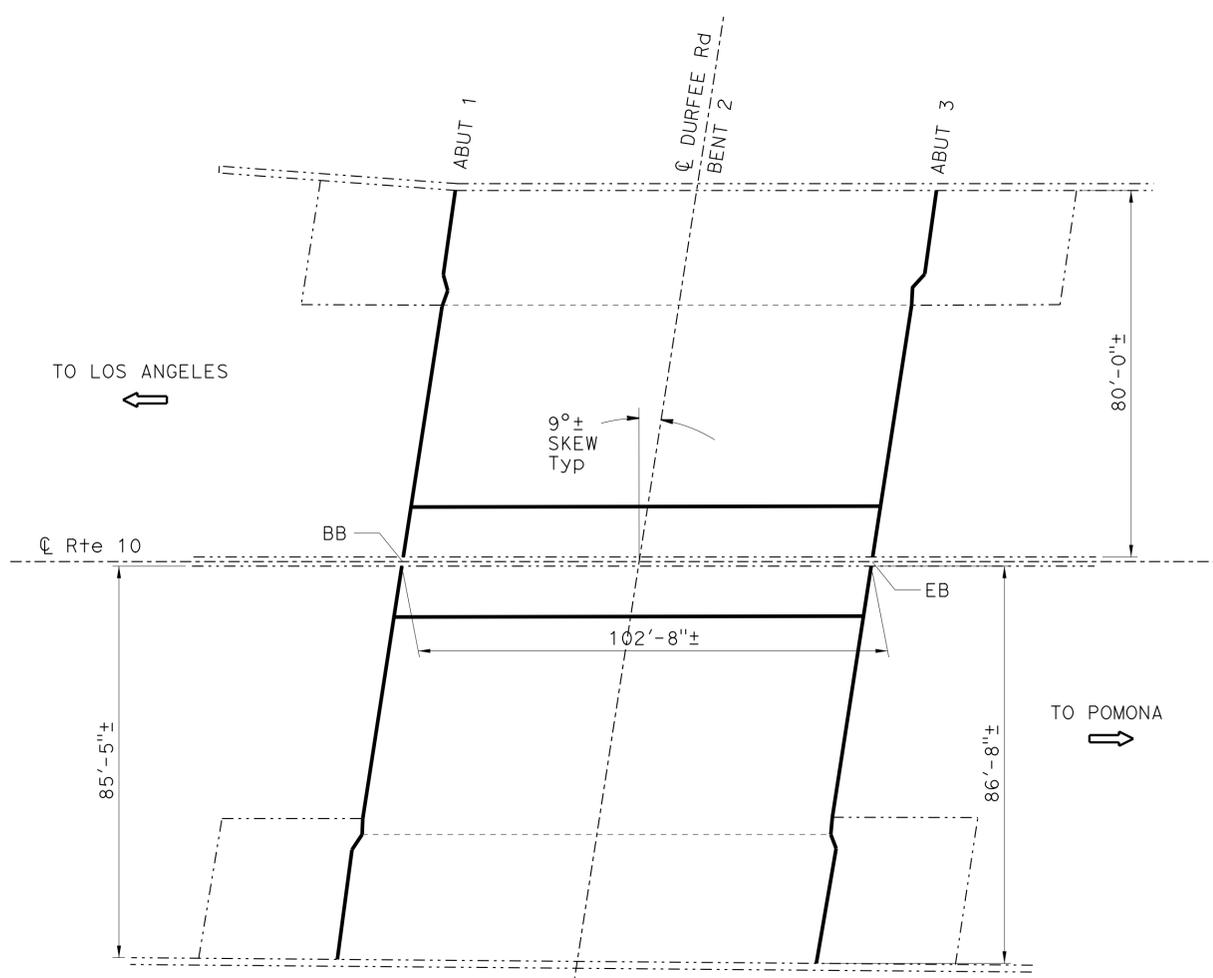
12/21/15  
 PLANS APPROVAL DATE

EDWARD GUOJUN LI  
 No. C56706  
 Exp. 06/30/17  
 CIVIL  
 STATE OF CALIFORNIA

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**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.

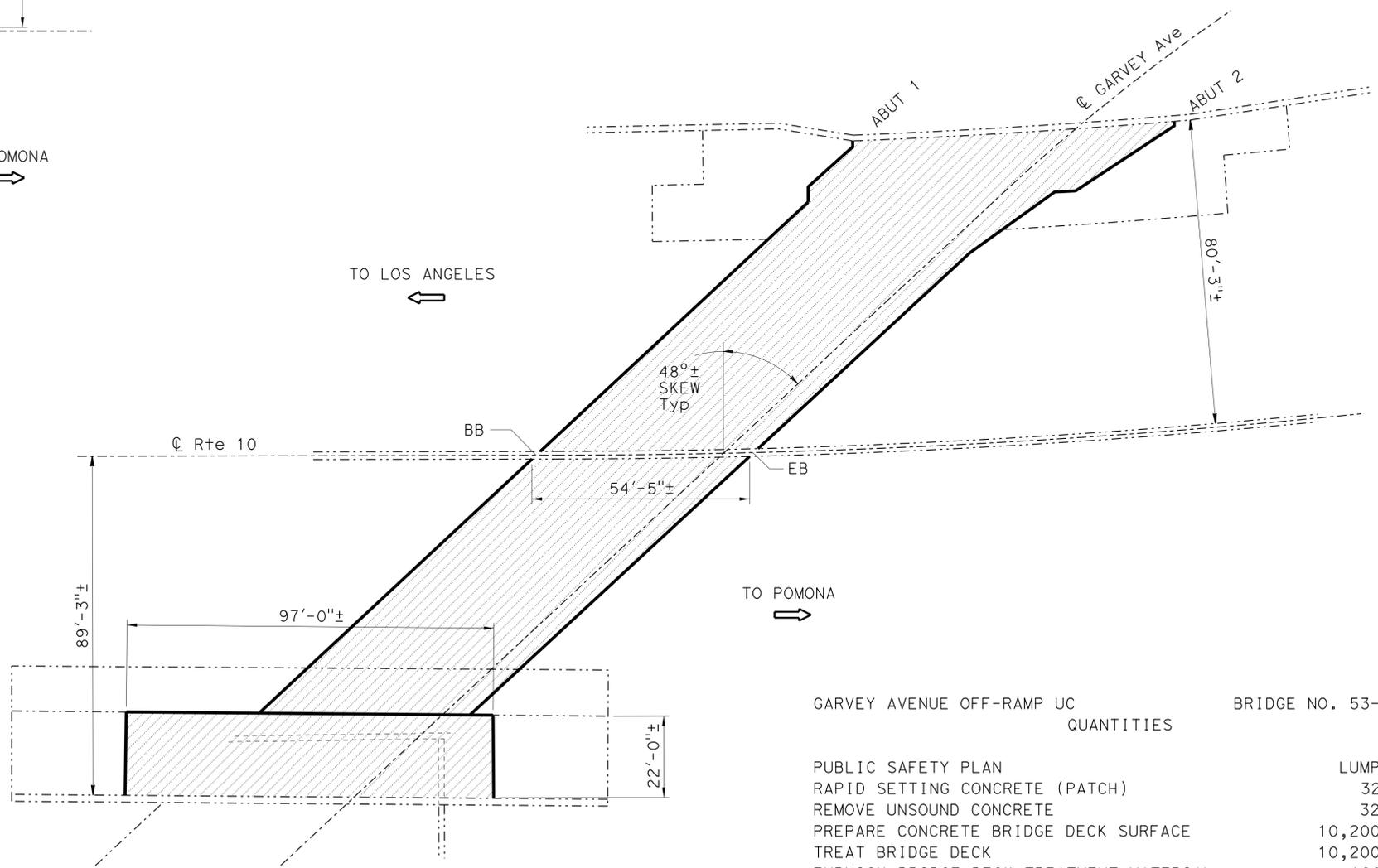


**DURFEE ROAD UC**  
 Br No. 53-1031, Rte 10, PM 30.51  
 NO SCALE

DURFEE ROAD UC BRIDGE NO. 53-1031

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	4	CF
REMOVE UNSOUND CONCRETE	4	CF
CLEAN EXPANSION JOINT	542	LF
JOINT SEAL (MR 1")	336	LF
JOINT SEAL (TYPE AL)	206	LF



**GARVEY AVENUE OFF-RAMP UC**  
 Br No. 53-1032, Rte 10, PM 30.58  
 NO SCALE

GARVEY AVENUE OFF-RAMP UC BRIDGE NO. 53-1032

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	32 CF
REMOVE UNSOUND CONCRETE	32 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	10,200 SQFT
TREAT BRIDGE DECK	10,200 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	128 GAL
CLEAN EXPANSION JOINT	582 LF
JOINT SEAL (TYPE AL)	97 LF
BONDED JOINT SEAL (MR 1 1/2")	485 LF

NOTE:  
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXEMPT PROJECT PER UTILITY POLICY, UTILITIES ARE NOT SHOWN.

DESIGN ENGINEER Tony Brake	DESIGN	BY Edward Li	CHECKED Tony Brake	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 10 BRIDGES GENERAL PLAN NO. 8	
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang			CHECKED Edward Li		POST MILE
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Theresa Nedwick			CHECKED Theresa Nedwick		PLANS AND SPECS COMPARED

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489  
 PROJECT NUMBER & PHASE: 0713000449-1  
 CONTRACT NO.: 07-2W6604

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
4-01-14	08	12

FILE => 07-2W6601-a-gp08.dgn

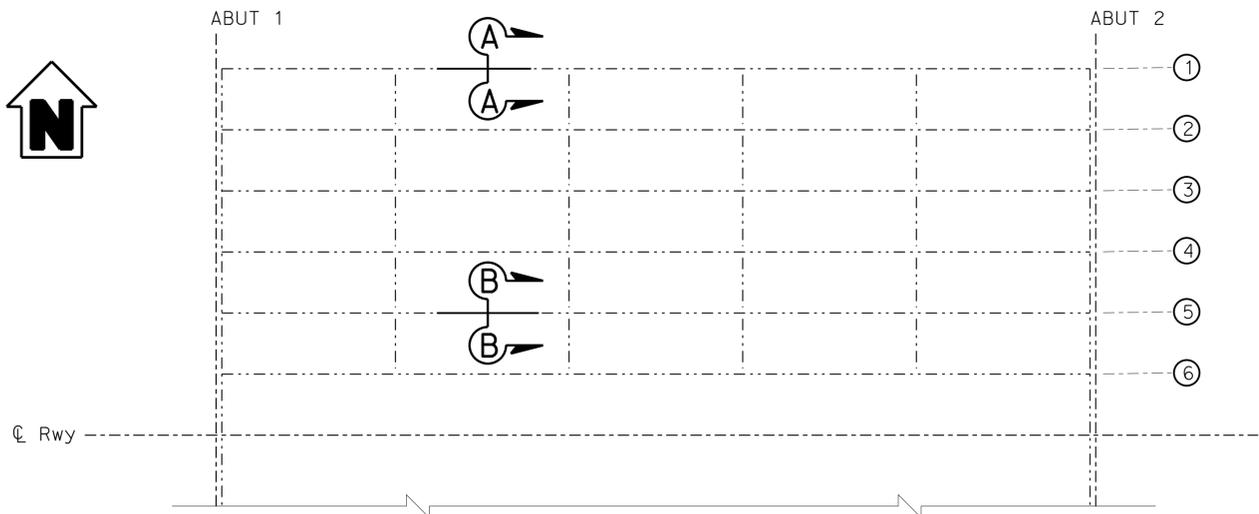
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	35	38

Edward Li 09/01/15  
REGISTERED CIVIL ENGINEER DATE

12/21/15  
PLANS APPROVAL DATE

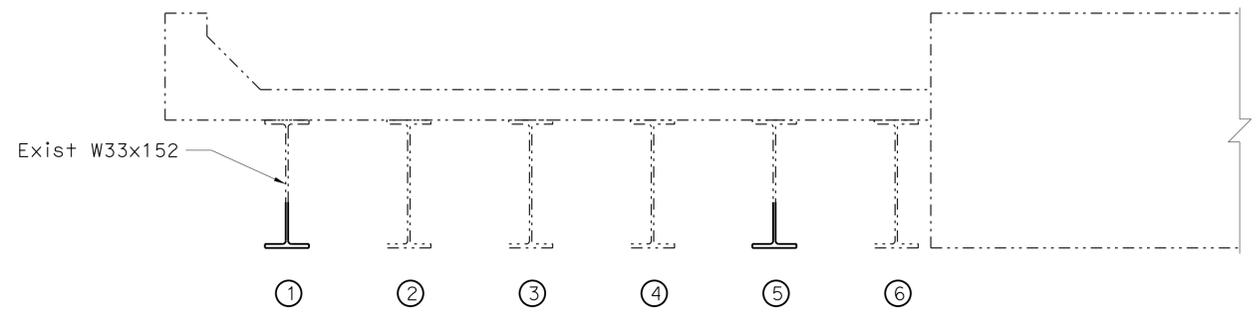
EDWARD GUOJUN LI  
REGISTERED PROFESSIONAL ENGINEER  
No. C56706  
Exp. 06/30/17  
CIVIL  
STATE OF CALIFORNIA

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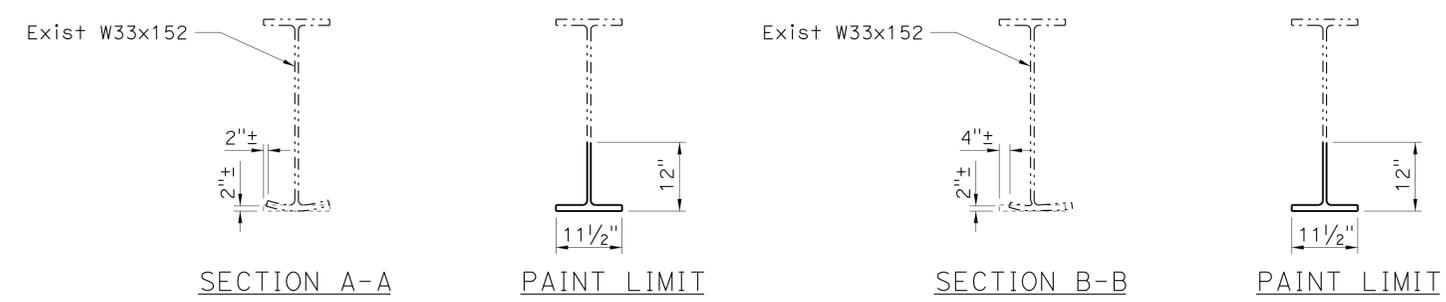


**GIRDER LAYOUT**  
NO SCALE

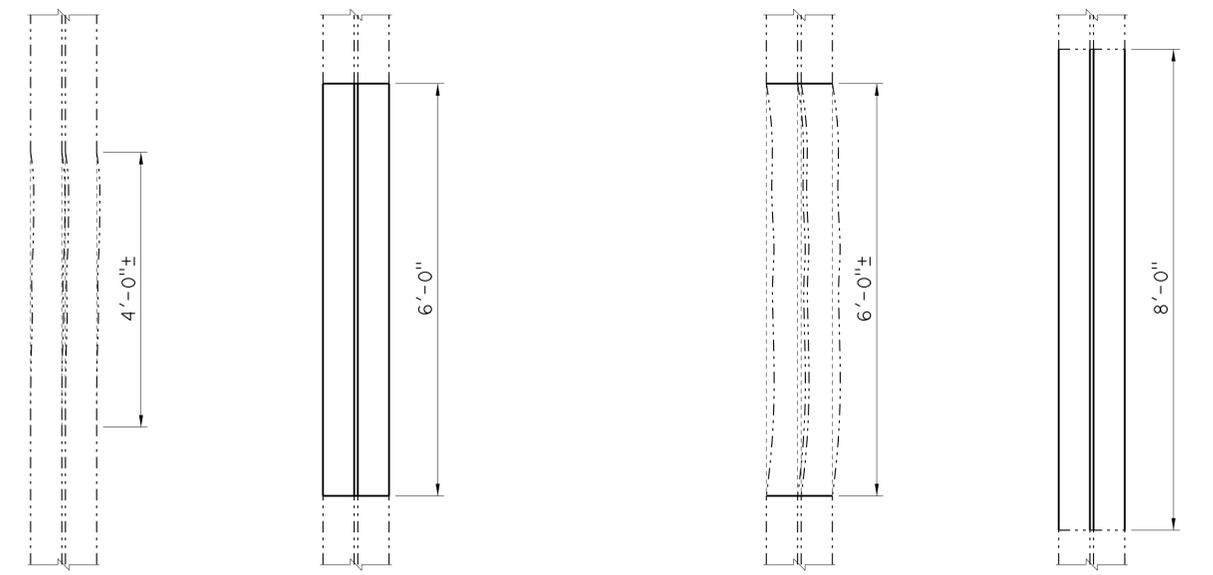
- LEGEND:**
- Indicates existing.
  - Indicates approx limit of clean and paint bottom flange girders.
  - Ⓝ Indicates girder number.



**TYPICAL SECTION**  
NO SCALE



SECTION A-A      PAINT LIMIT      SECTION B-B      PAINT LIMIT



PLAN VIEW      PAINT LIMIT      PLAN VIEW      PAINT LIMIT

WORK ITEM	APPROX TOTAL AREA (SQFT)
HEAT STRAIGHTEN STEEL GIRDER	10
CLEAN AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	56

NOTE:  
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DESIGN	BY Edward Li	CHECKED HongTien Tran
DETAILS	BY Tom Dang	CHECKED Edward Li
QUANTITIES	BY Edward Li	CHECKED HongTien Tran

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	53-1021C
POST MILE	C27.96

**BALDWIN AVENUE UC (WB BUSWAY)**  
**ROUTE 10 BRIDGES**  
**GIRDER REPAIR DETAILS**

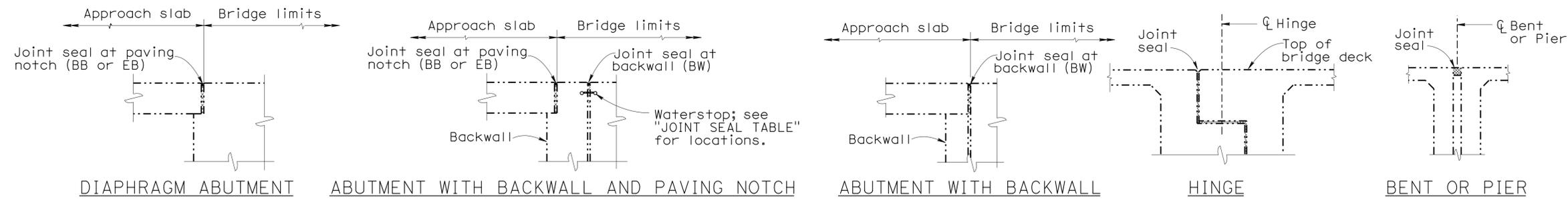
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	36	38

Edward Li 09/01/15  
REGISTERED CIVIL ENGINEER DATE

12/21/15  
PLANS APPROVAL DATE

No. C56706  
Exp. 06/30/17  
CIVIL

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**JOINT SEAL LOCATION**

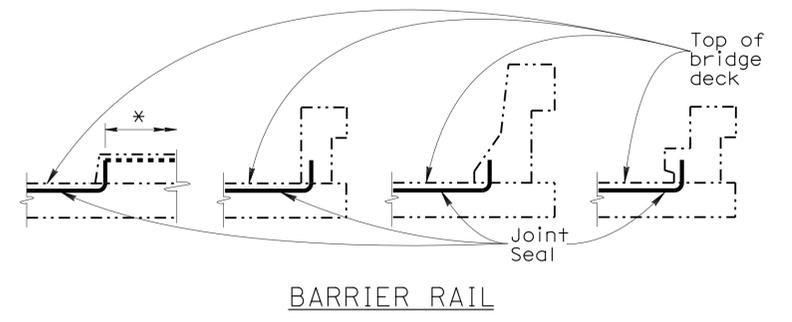
NO SCALE  
Abutment joint seal is not required with AC roadway pavement transverse contact joint.

**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 Standard Plan.
- The following notes apply to JOINT SEAL TYPE B:
- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
  - 2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.
  - 3) W1 shall be the smaller of the values determined as follows:
    - A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
    - B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.
  - 4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
- For details not shown see B6-21 Standard Plan.

JOINT SEAL TABLE										
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	Approx LENGTH (LF)	EXISTING WATERSTOP	Approx DEPTH TO CLEAN EXP JOINT (INCHES)	Approx DEPTH OF JOINT SPALLS (INCHES)	Approx LENGTH OF JOINT SPALLS (LF)	LENGTH TO CLEAN EXP JOINT (LF)
		ABUTMENT	JOINT TYPE							
ROUTE 10/164 COLLECTOR SEPARATION	53-0010S	ABUT 1	PN	1/2	28	NO	12	3	5	56
		ABUT 5	PN	1/2	28	NO	12	3	5	
ROUTE 10/164 COLLECTOR SEPARATION	53-0010K	ABUT 1	BW	1/2	28	NO	12	3	5	69
		ABUT 5	BW	1/2	41	NO	12	3	5	
L AFC ACCESS ROAD	53-2636	BB	BW	1/2	104	NO	12	3	5	208
		EB	BW	1/2	104	NO	12	3	5	
SANTA ANITA AVENUE UC	53-0658	ABUT 1	PN	1/2	160	NO	12	3	5	461
		ABUT 2	PN	1/2	160	NO	12	3	5	
		AL	--	--	168	NO	12	3	5	
LEXINGTON AVENUE UC	53-0883	ABUT 1	PN	1/2	162	NO	12	3	5	446
		ABUT 2	PN	1/2	159	NO	12	3	5	
		AL	--	--	126	NO	12	3	5	
TYLER AVENUE UC	53-0659	ABUT 1	PN	1/2	184	NO	12	3	5	579
		ABUT 2	PN	1/2	186	NO	12	3	5	
		AL	--	--	209	NO	12	3	5	
MEEKER ROAD UC	53-1029	ABUT 1	PN	1/2	205	NO	12	3	5	525
		ABUT 2	PN	1/2	208	NO	12	3	5	
		AL	--	--	112	NO	12	3	5	
EAST EL MONTE OH	53-0867	ABUT 1	PN	1/2	274	NO	12	3	5	1,760
		BW	1 1/2*	393	NO	12	3	5		
		ABUT 3	PN	1/2	393	NO	12	3	5	
		BW	1 1/2*	274	NO	12	3	5		
STEWART STREET ON-RAMP UC	53-1030	ABUT 1	PN	1/2	30	NO	12	3	5	168
		ABUT 2	PN	1/2	30	NO	12	3	5	
		AL	--	--	108	NO	12	3	5	
COGSWELL ROAD UC	53-0662	ABUT 1	PN	1/2	162	NO	12	3	5	454
		ABUT 2	PN	1/2	162	NO	12	3	5	
		AL	--	--	130	NO	12	3	5	
DURFEE ROAD UC	53-1031	ABUT 1	PN	1	168	NO	12	3	5	542
		ABUT 2	PN	1	168	NO	12	3	5	
		AL	--	--	206	NO	12	3	5	
GARVEY AVENUE OFF-RAMP UC	53-1032	ABUT 1	PN	1 1/2*	242	NO	12	3	5	582
		ABUT 2	PN	1 1/2*	243	NO	12	3	5	
		AL	--	--	97	NO	12	3	5	

PN = PAVING NOTCH  
BW = BACKWALL  
AL = ALUMINUM JOINT  
\* = USE BONDED JOINT SEAL



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

NOTE: THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXEMPT PROJECT PER UTILITY POLICY, UTILITIES ARE NOT SHOWN.	DESIGN	BY Edward Li	CHECKED HongTien Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 10 BRIDGES MISCELLANEOUS DETAILS NO. 1
	DETAILS	BY Tom Dang	CHECKED Edward Li			POST MILE	Varies	
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran			Varies	Varies	

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: 0713000449-1 CONTRACT NO.: 07-2W6604

DISREGARD PRINTS BEARING EARLIER REVISION DATES

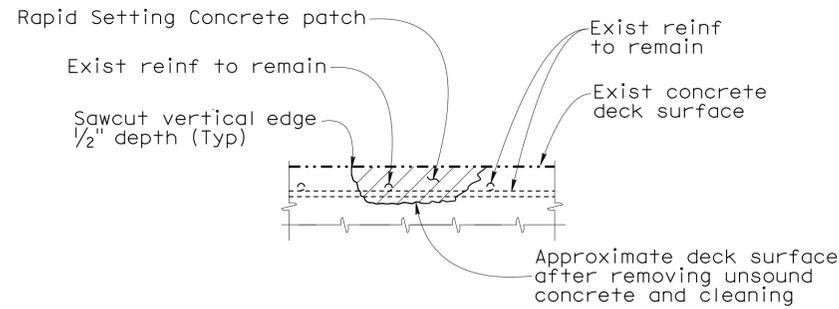
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SHEET 10 OF 12

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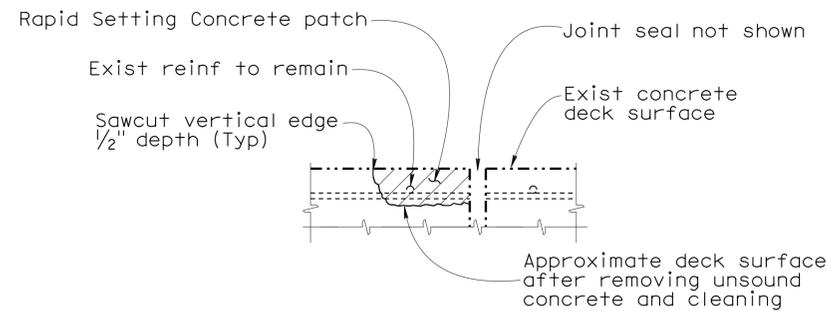
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07	LA	10	26.8/30.8	37	38

Edward Li 09/01/15  
 REGISTERED CIVIL ENGINEER DATE  
 12/21/15  
 PLANS APPROVAL DATE  
 No. C56706  
 Exp. 06/30/17  
 CIVIL  
 STATE OF CALIFORNIA  
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**DECK DAMAGE REPAIR DETAIL**

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



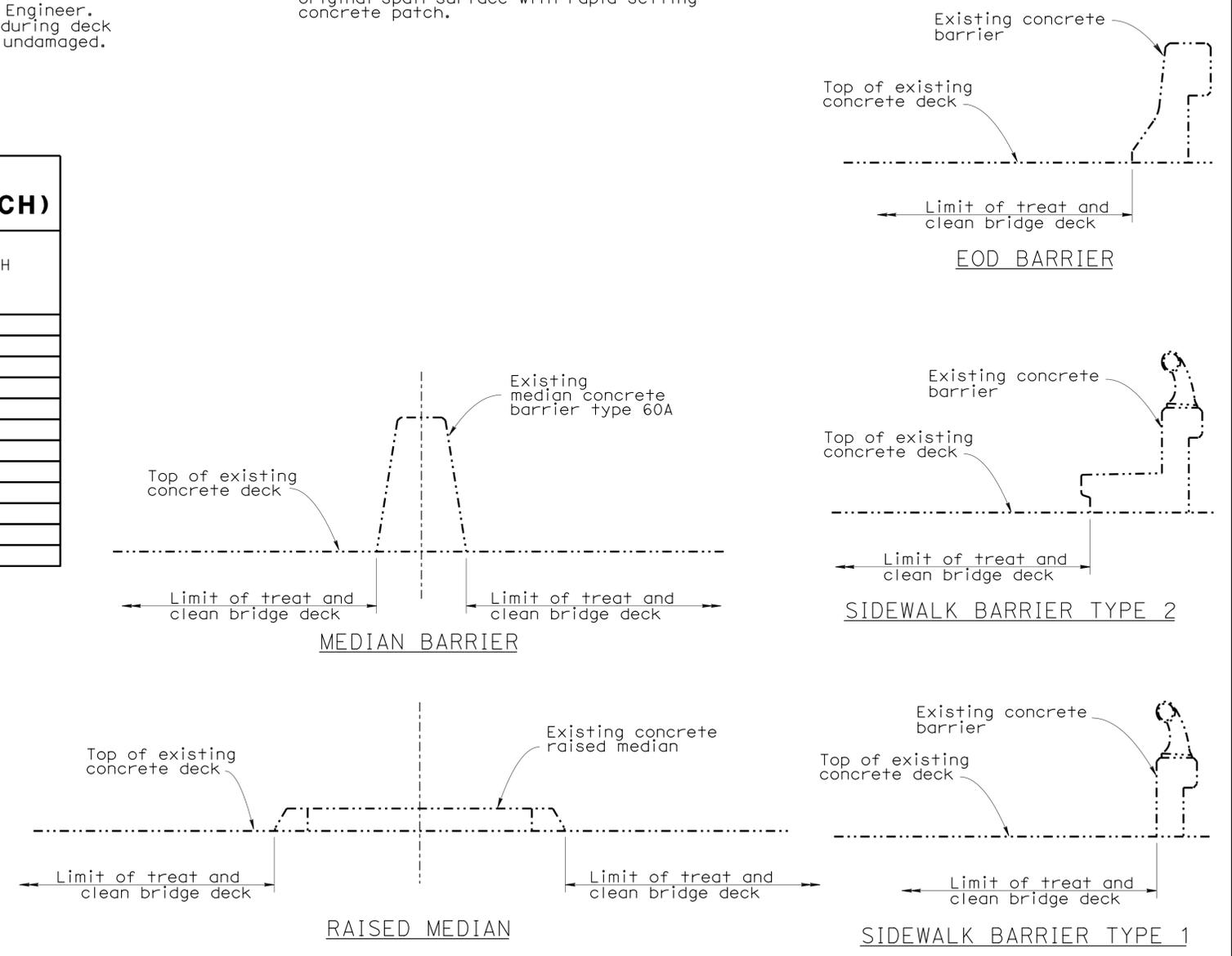
**JOINT REPAIR DETAIL**

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

**CONSTRUCTION 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 1/2 inch or the concrete cover over the top steel reinforcing bars, whichever is less.
- Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original spall surface with rapid setting concrete patch.

DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCH)
ROUTE 10/164 COLLECTOR SEPARATION	53-0010S	1	3
ROUTE 10/164 COLLECTOR SEPARATION	53-0010K	1	3
EATON WASH (WB BUSWAY)	53-0656C	1	3
EATON WASH	53-0656R	1	3
BALDWIN AVENUE UC	53-1021L	1	3
BALDWIN AVENUE UC WB BUSWAY	53-1021C	1	3
LEXINGTON AVENUE UC	53-0883	1	3
TYLER AVENUE UC	53-0659	1	3
MEEKER ROAD UC	53-1029	1	3
STEWART STREET ON-RAMP UC	53-1030	1	3
COGSWELL ROAD UC	53-0662	1	3
GARVEY AVENUE OFF-RAMP UC	53-1032	1	3



**TYPICAL LIMITS OF DECK WORK**

NO SCALE

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DESIGN	BY Edward Li	CHECKED HongTien Tran
DETAILS	BY Tom Dang	CHECKED Edward Li
QUANTITIES	BY Edward Li	CHECKED HongTien Tran

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTE 10 BRIDGES  
MISCELLANEOUS DETAILS NO. 2

USERNAME => s122436 DATE PLOTTED => 27-JAN-2016 TIME PLOTTED => 1:31:18

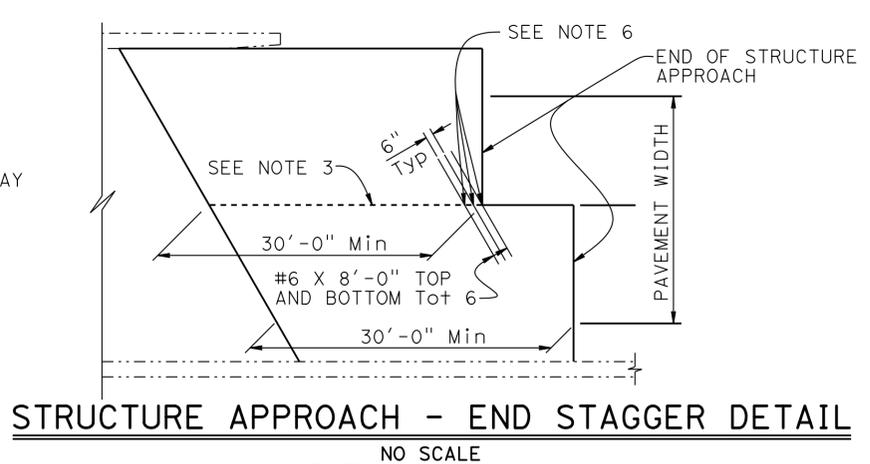
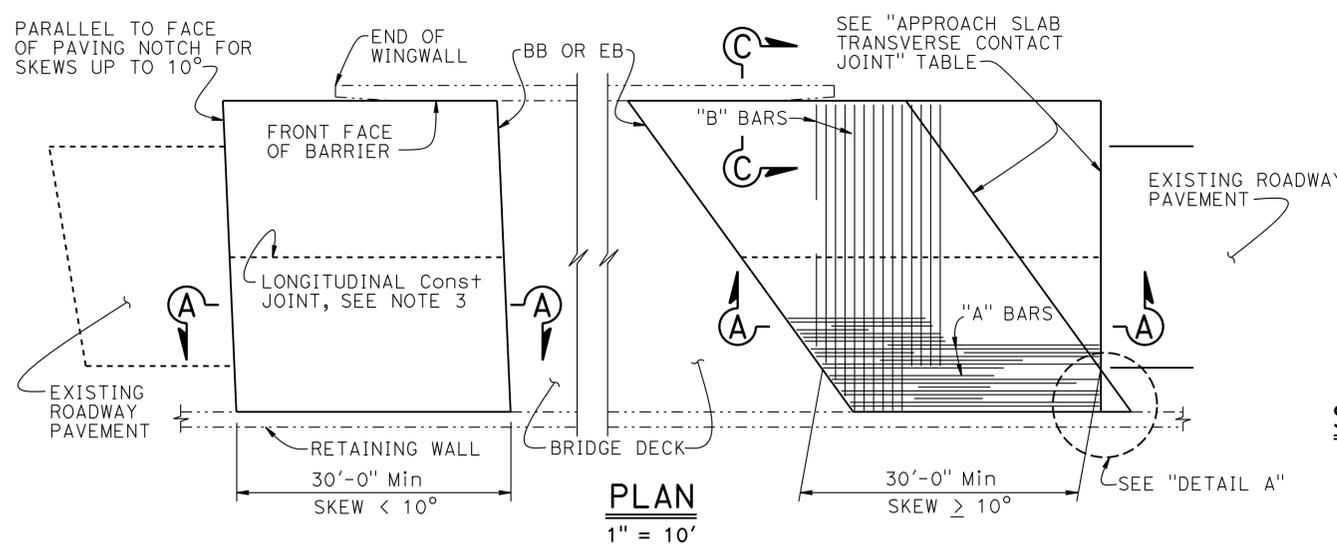
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	26.8/30.8	38	38

Edward Dr 09/01/15  
 REGISTERED CIVIL ENGINEER DATE

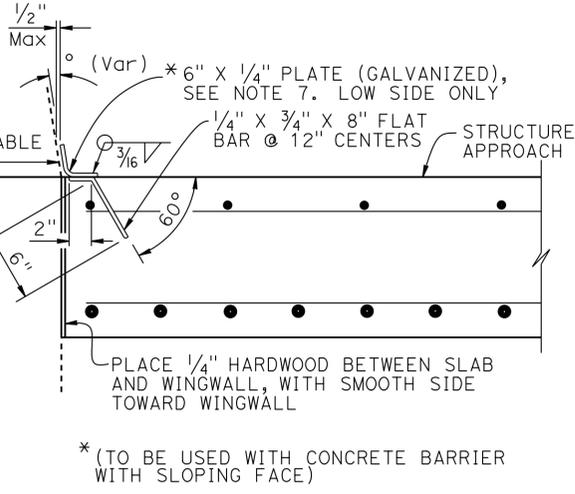
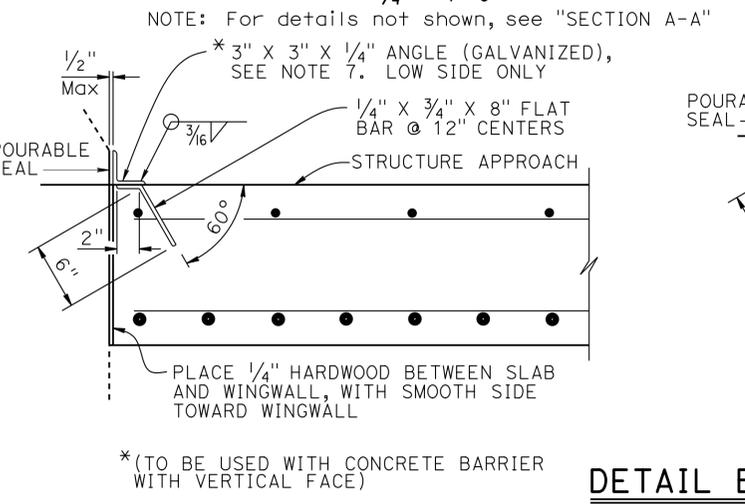
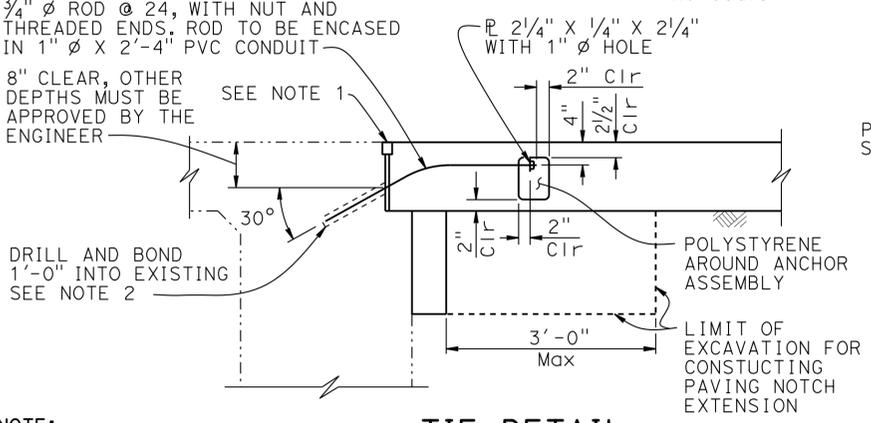
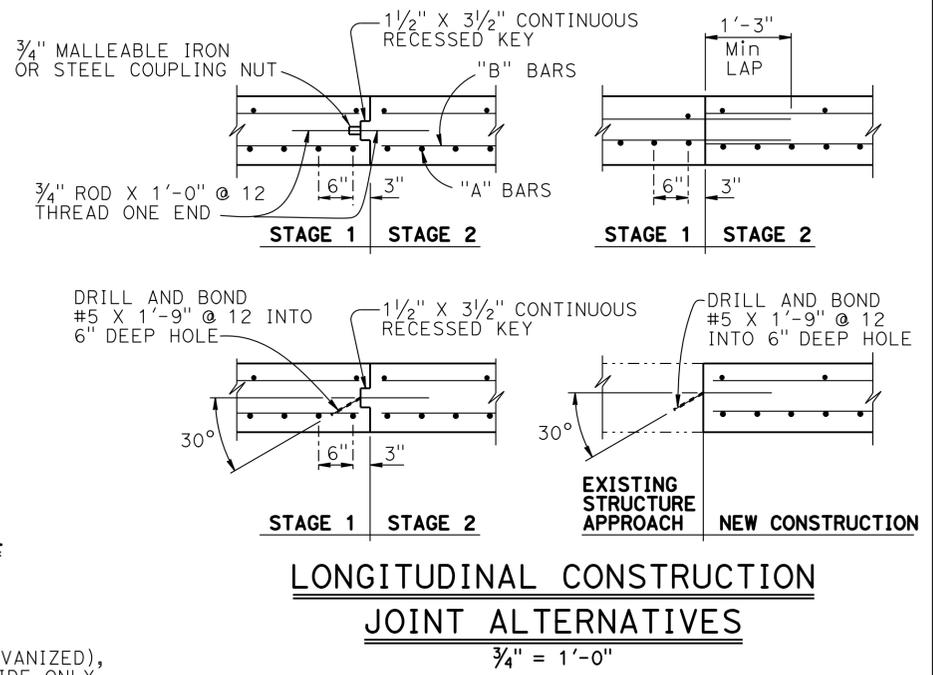
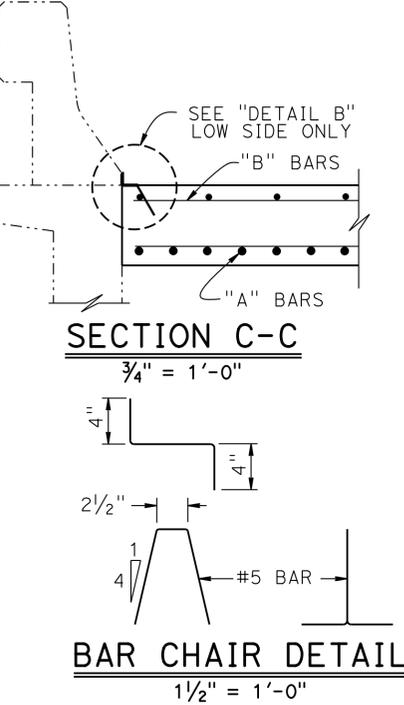
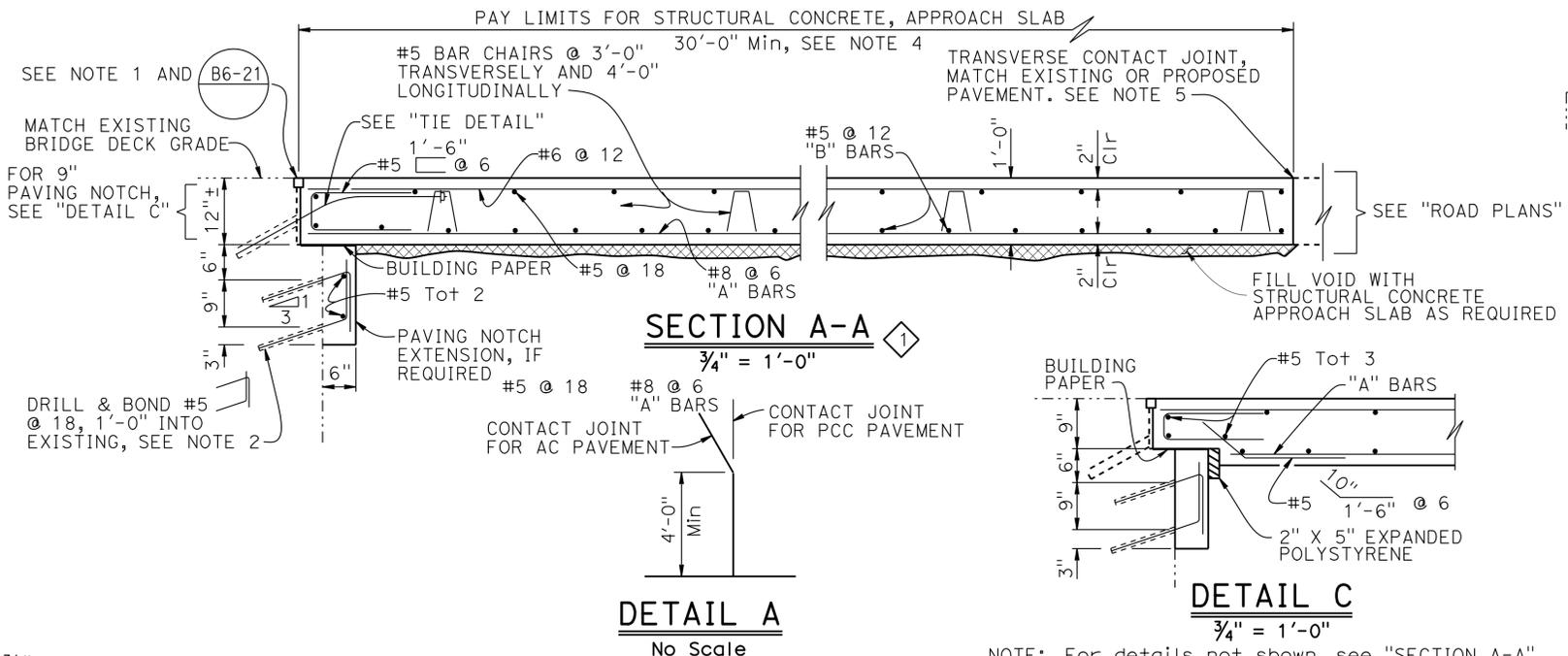
12/21/15  
 PLANS APPROVAL DATE

No. C56706  
 Exp. 06/30/17  
 CIVIL

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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.

REVISED STANDARD DRAWING

FILE NO. **xs3-150**

APPROVAL DATE July 2011

REVISED

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-1022L

POST MILE C28.01

**GIBSON OH (EB & WB BUSWAY)**

**ROUTE 10 BRIDGES**

**STRUCTURE APPROACH TYPE R(30D)**