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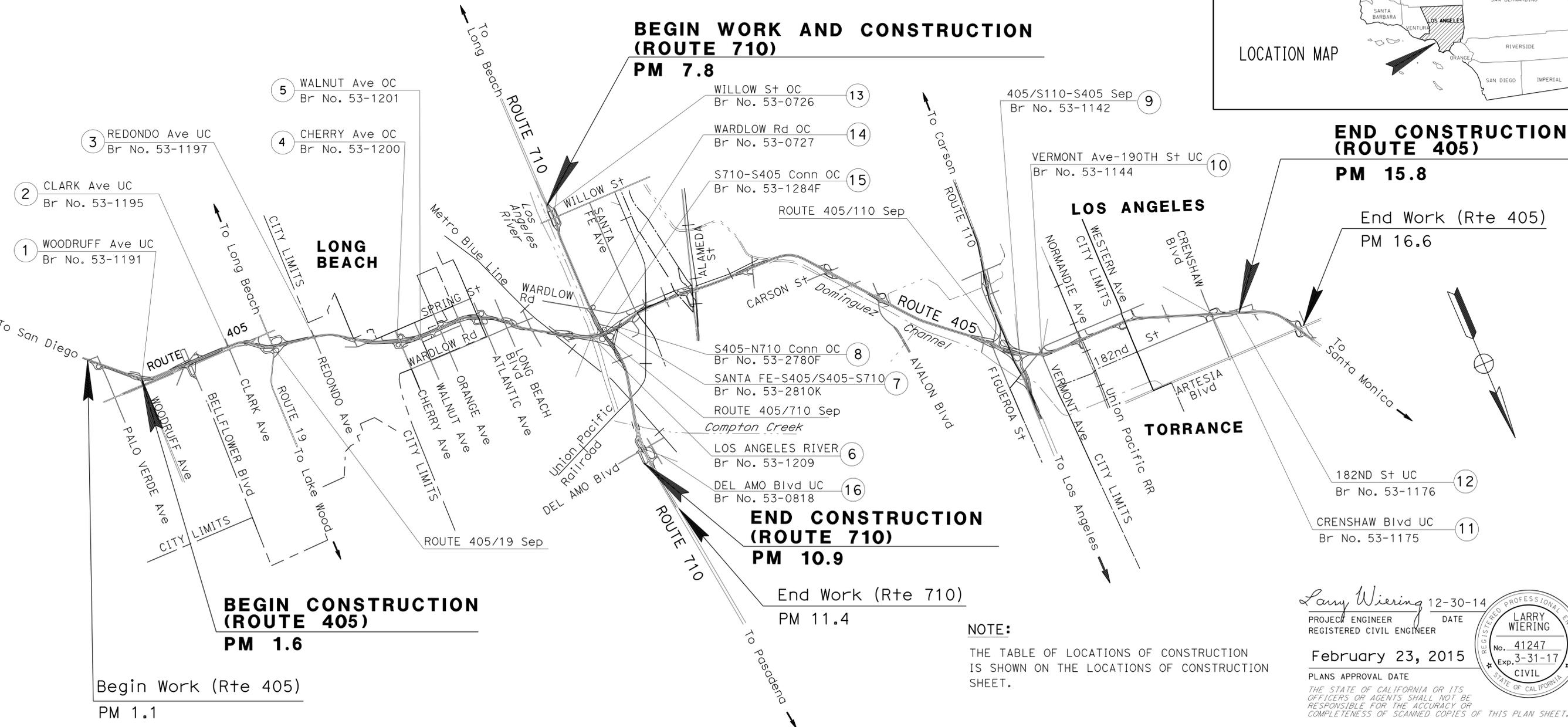
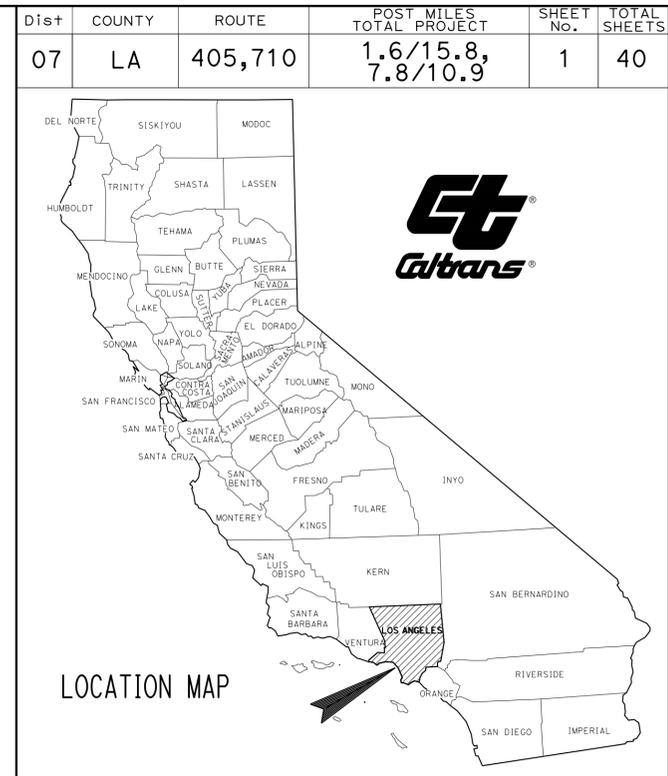
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACNHP - X037(177)E

**PROJECT PLANS FOR CONSTRUCTION ON
 STATE HIGHWAY
 IN LOS ANGELES COUNTY
 AT VARIOUS LOCATIONS
 ON ROUTE 405 FROM WOODRUFF AVENUE UNDERCROSSING
 TO 182ND STREET UNDERCROSSING
 AND ON ROUTE 710 FROM WILLOW STREET OVERCROSSING
 TO DEL AMO BOULEVARD UNDERCROSSING**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



END CONSTRUCTION (ROUTE 405)

PM 15.8

End Work (Rte 405)

PM 16.6

END CONSTRUCTION (ROUTE 710)

PM 10.9

End Work (Rte 710)

PM 11.4

BEGIN CONSTRUCTION (ROUTE 405)

PM 1.6

Begin Work (Rte 405)

PM 1.1

NOTE:

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

Larry Wiering 12-30-14
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER

February 23, 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.	07-2W7504
PROJECT ID	0713000448

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

NO SCALE

x
x
x
x
x

PROJECT MANAGER
 SHARASCHANDRA BANGALORE

DESIGN MANAGER
 PAUL CRISPI

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	2	40

Larry Wiering 12-30-14
REGISTERED CIVIL ENGINEER DATE

2-23-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LARRY WIERING
No. 50125
Exp. 3-31-17
CIVIL
STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR
PAUL CRISPI

CALCULATED/DESIGNED BY
CHECKED BY

AVO BOYNERIAN
LARRY WIERING

REVISED BY
DATE REVISED

LOCATIONS OF CONSTRUCTION				
Loc No. (X)	ROUTE	PM	BRIDGE NAME	BRIDGE No.
1	405	1.64	WOODRUFF AVENUE UC	53-1191
2	405	2.76	CLARK AVENUE UC	53-1195
3	405	3.82	REDONDO AVENUE UC	53-1197
4	405	4.88	CHERRY AVENUE OC	53-1200
5	405	5.14	WALNUT AVENUE OC	53-1201
6	405	7.40	LOS ANGELES RIVER	53-1209
7	405	7.71	SANTA FE-S405/S405-S710	53-2810K
8	405	7.79	S405-N710 CONNECTOR OC	53-2780F
9	405	13.06	405/S110-S405 SEPARATION	53-1142
10	405	13.28	VERMONT AVENUE-190TH STREET UC	53-1144
11	405	15.45	CRENSHAW BOULEVARD UC	53-1175
12	405	15.73	182ND STREET UC	53-1176
13	710	7.89	WILLOW STREET OC	53-0726
14	710	9.07	WARDLOW ROAD OC	53-0727
15	710	9.38	S710-S405 CONNECTOR OC	53-1284F
16	710	10.82	DEL AMO BOULEVARD UC	53-0818

LOCATIONS OF CONSTRUCTION
LC-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	3	40

Larry Wiering 12-30-14
 REGISTERED CIVIL ENGINEER DATE

2-23-15
 PLANS APPROVAL DATE

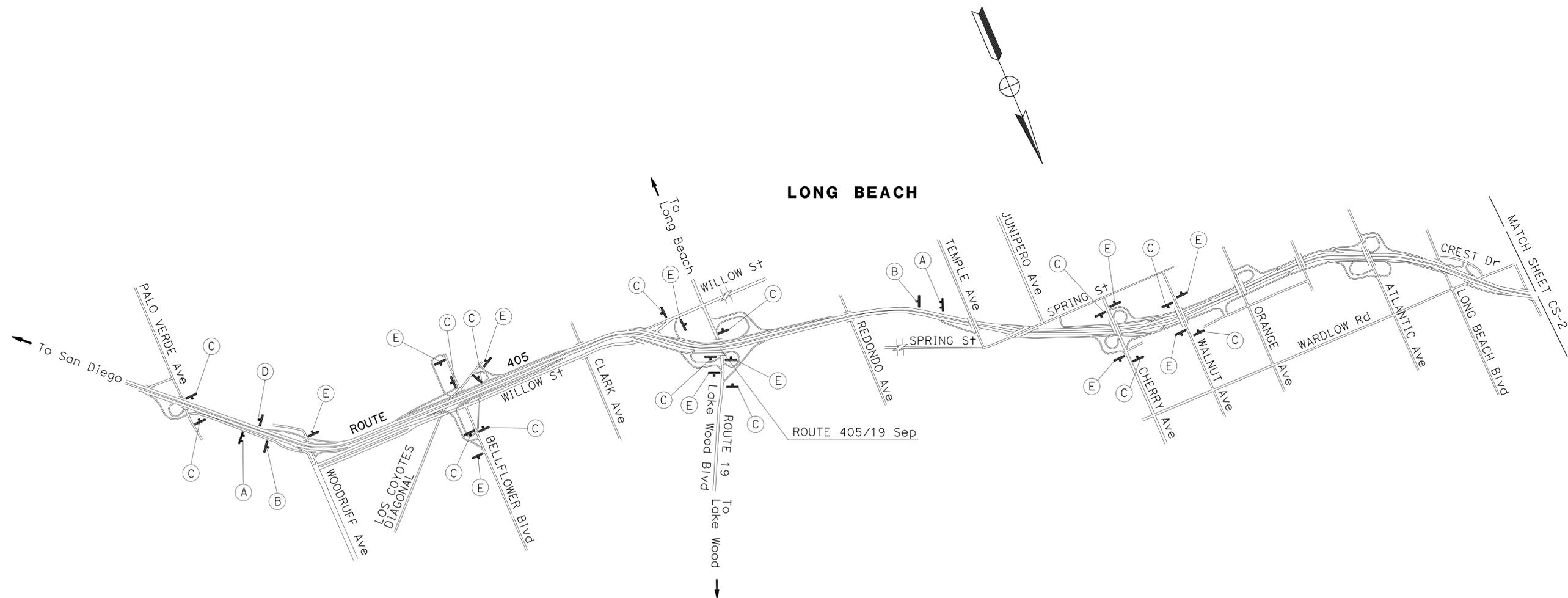
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REGISTERED PROFESSIONAL ENGINEER
 LARRY WIERING
 No. 50125
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SIGN CODE PER CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS						
SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A		C40(CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2-6" x 6"	8
B	W20-1		48" x 48"	ROAD WORK AHEAD	1-6" x 6"	14
C	W20-1		36" x 36"	ROAD WORK AHEAD	1-4" x 4"	24
D	G20-2		48" x 24"	END ROAD WORK	1-4" x 6"	7
E	G20-2		36" x 18"	END ROAD WORK	1-4" x 4"	17



CONSTRUCTION AREA SIGNS
 NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR
 PAUL CRISPI

CALCULATED/DESIGNED BY
 CHECKED BY

AVO BOYNERIAN
 LARRY WIERING

REVISED BY
 DATE REVISED

REVISIONS

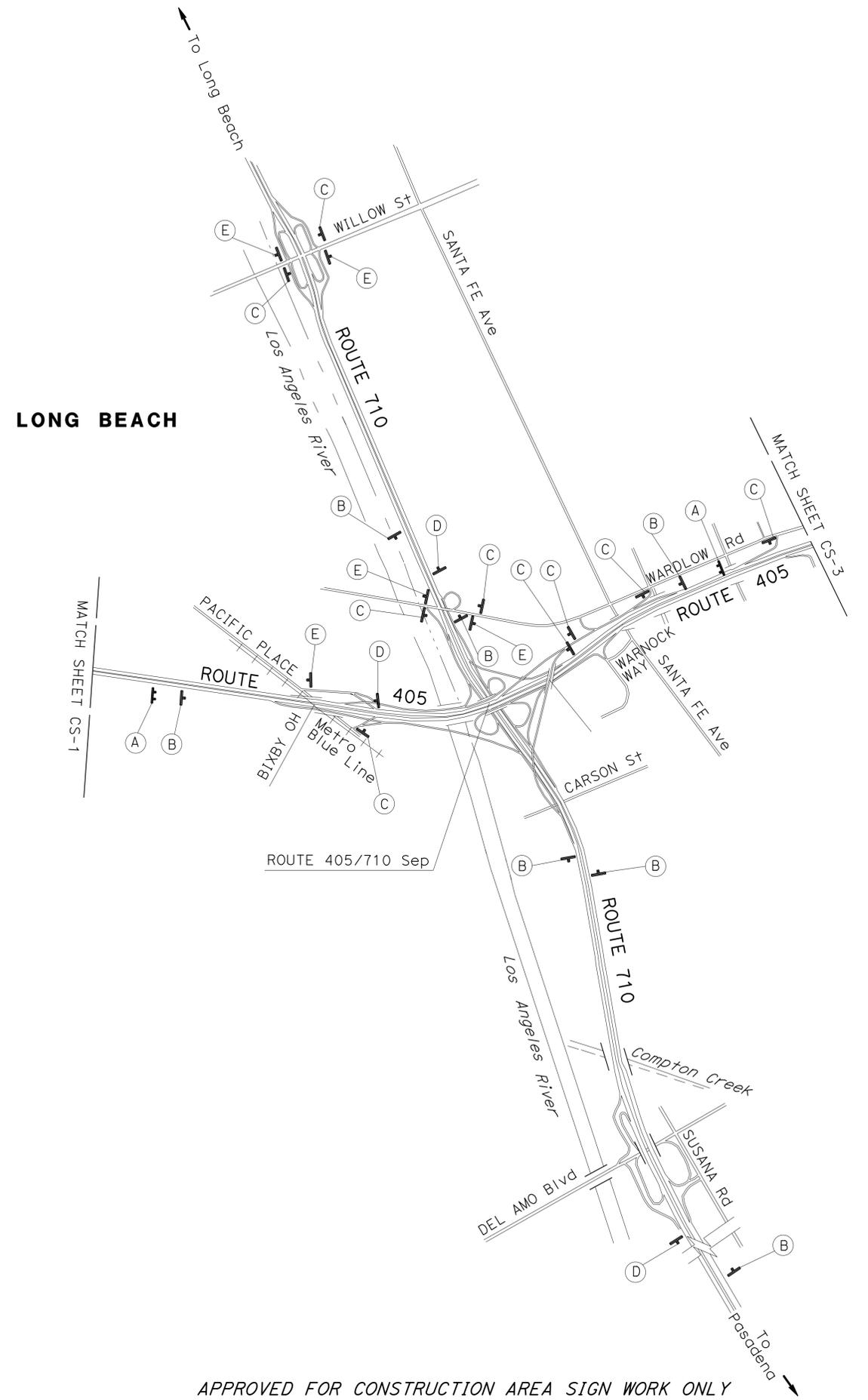
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	AYO BOYNERIAN	REVISED BY	
Caltrans MAINTENANCE ENGINEERING	PAUL CRISPI	CHECKED BY	LARRY WIERING	DATE	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	4	40

Larry Wiering 12-30-14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LARRY WIERING
 No. 50125
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	5	40

Larry Wiering 12-30-14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	AYO BOYNERIAN	REVISOR	DATE
Caltrans MAINTENANCE ENGINEERING	PAUL CRISPI	CHECKED BY	LARRY WIERING	DATE	REVISOR



CONSTRUCTION AREA SIGNS
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-3

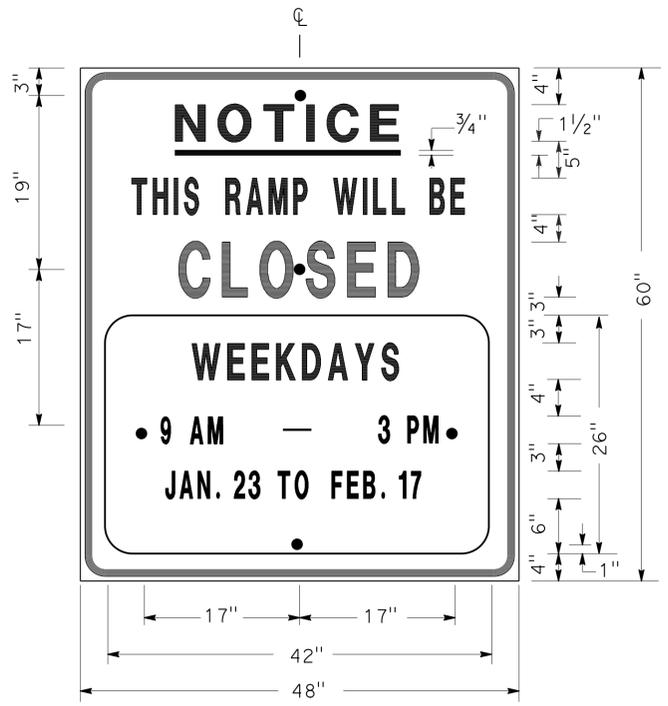
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 02-23-15 TIME PLOTTED => 1:3:20

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	6	40

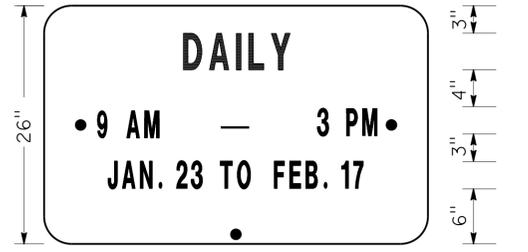
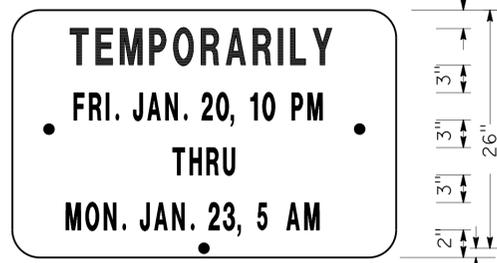
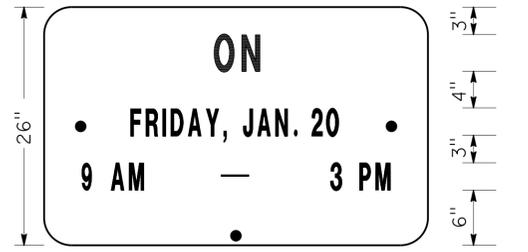
Senju Katayama 12-10-14
 REGISTERED CIVIL ENGINEER DATE

2-23-15
 PLANS APPROVAL DATE

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SIGN SP-1



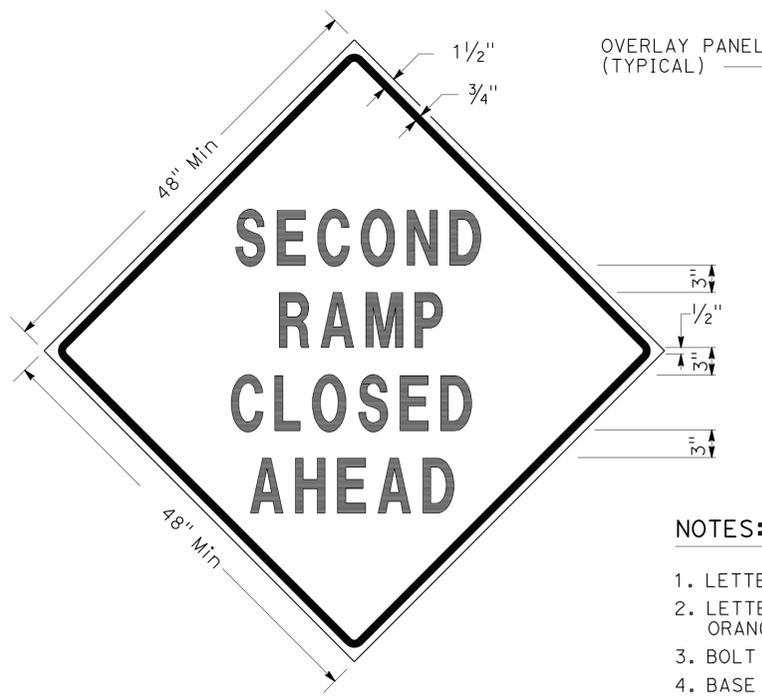
ALTERNATE OVERLAY PANELS (TYPICAL)

- 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**

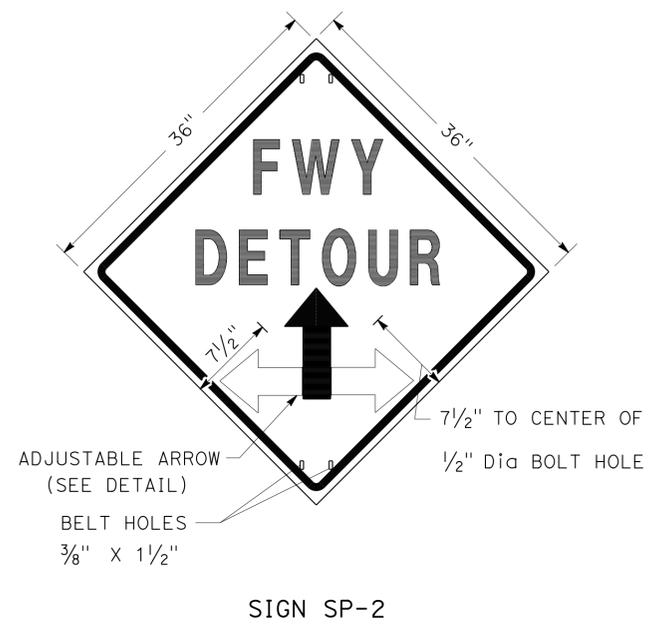
SHEET 1 OF 2

NO SCALE

THD-1

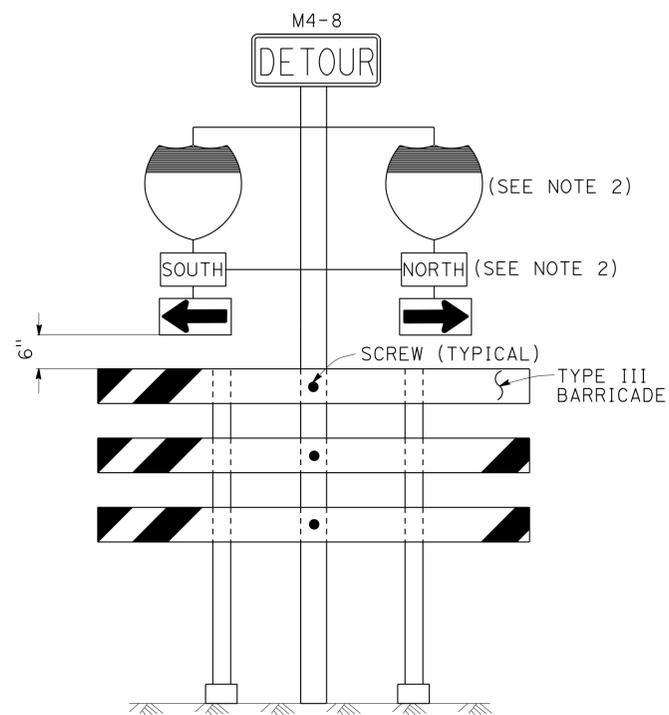
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTM

FUNCTIONAL SUPERVISOR: SAMUEL ESQUENAZI
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISOR: JC
 DATE: 2/14

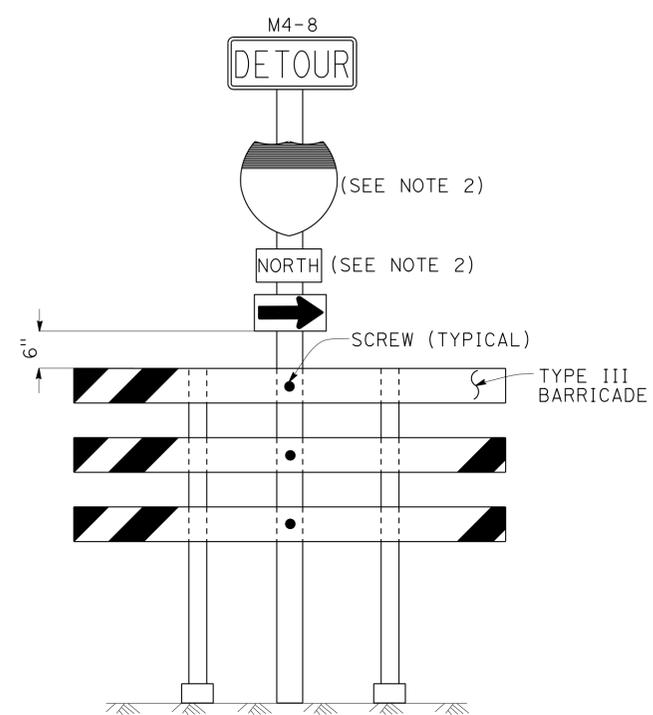


- NOTES:** SIGN SP-2
- LETTERS - 6" SERIES E.
 - LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
 - BASE MATERIAL FOR SIGNS AND ARROWS MUST BE ALUMINUM (MINIMUM 0.06").
 - BELTS (LUGGAGE STRAPS) MUST BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
 - SIGNS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



SIGN SP-6 (SEE NOTE 1)

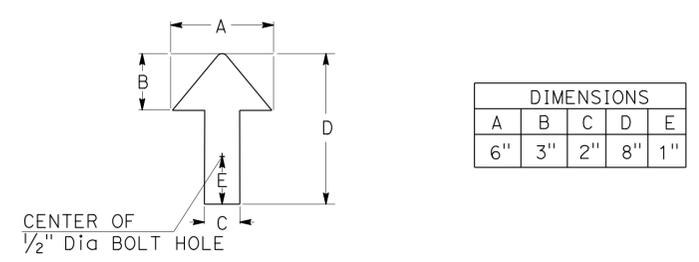


SIGN SP-7 (SEE NOTE 1)

NOTES: SIGNS SP-6 & SP-7

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

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



ADJUSTABLE ARROW DETAIL

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

THD-2

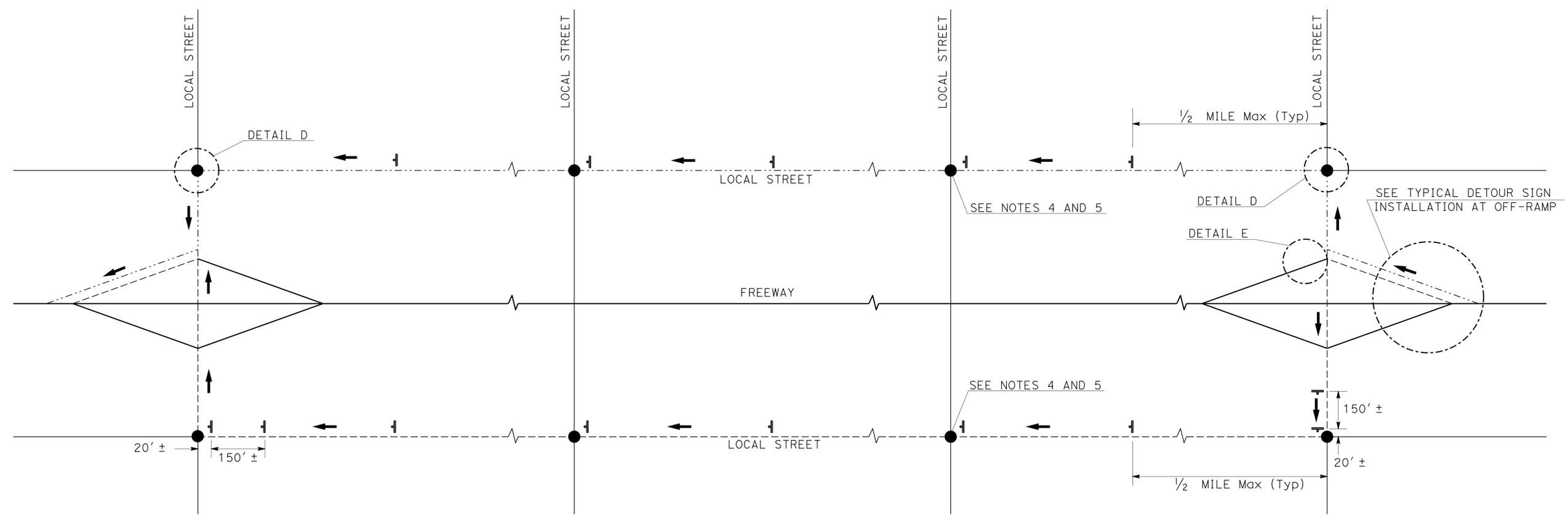
LAST REVISION | DATE PLOTTED => 05-MAR-2015
 02-23-15 TIME PLOTTED => 1:3:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	8	40
<i>Senju Katayama</i> 12-10-14 REGISTERED CIVIL ENGINEER DATE					
2-23-15 PLANS APPROVAL DATE					
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- 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**

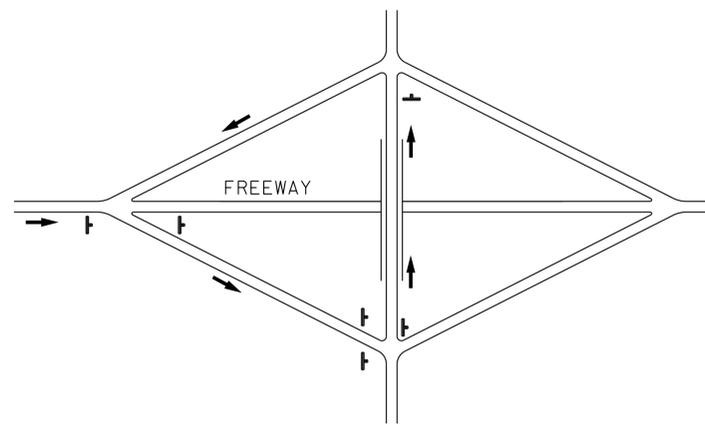
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR: SAMUEL ESQUENAZI
 CALCULATED/DESIGNED BY: JOCELYN C CHIANG
 CHECKED BY: JOCELYN C CHIANG
 REVISED BY: ALBERT K YU
 DATE REVISED: 2/14
 JC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	10	40

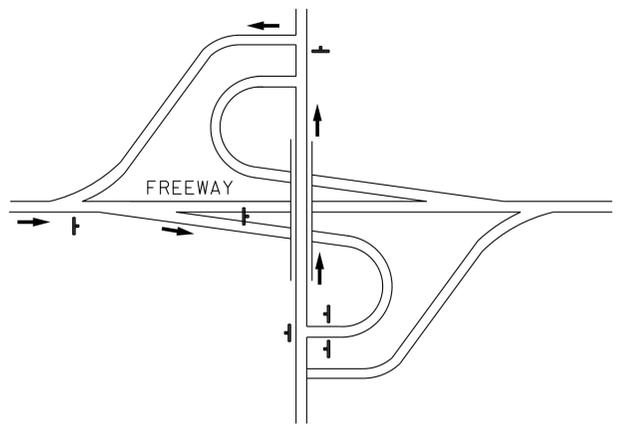
Senju Katayama 12-10-14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 D.S.
 KATAYAMA
 No. C50648
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

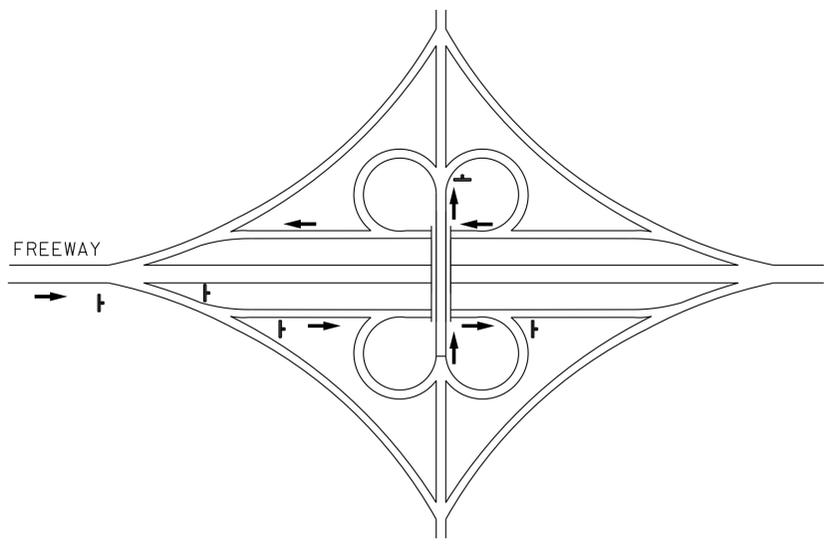
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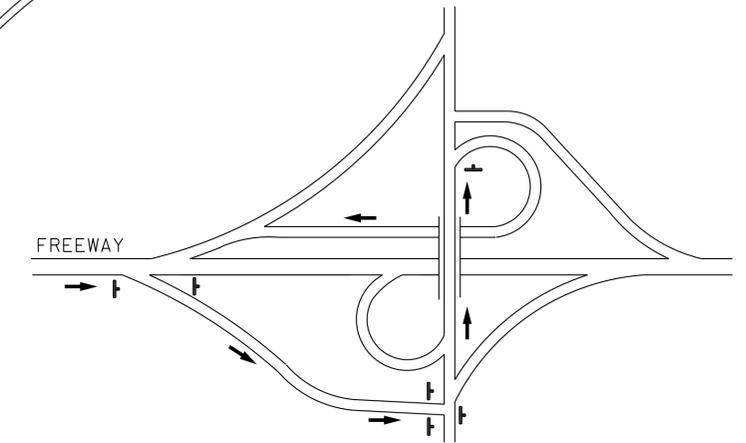
TYPE I



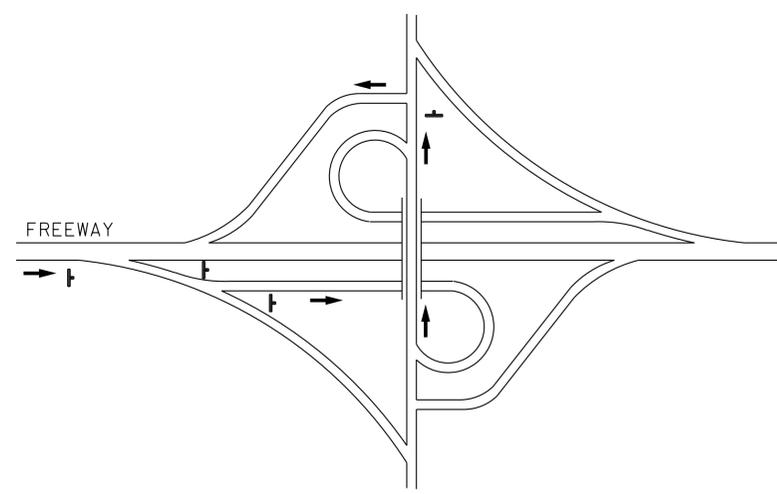
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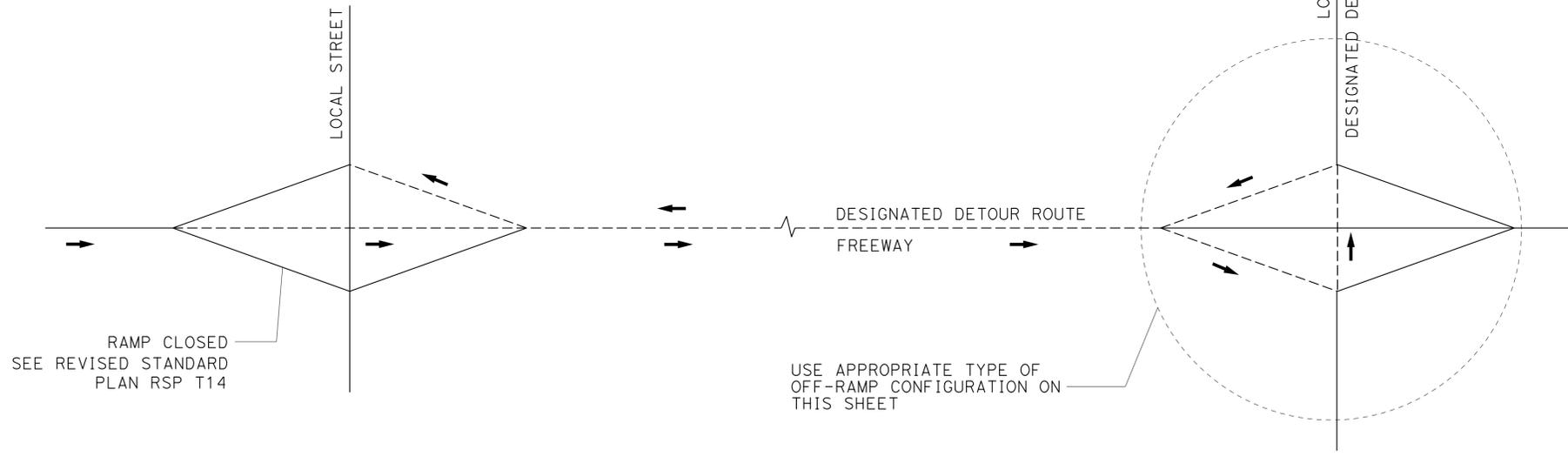
TYPE III



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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR: SAMUEL ESQUENAZI
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISIONS: JC 2/14
 REVISIONS: JC 2/14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	11	40

Genus Katayama 12-10-14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

D.S. KATAYAMA
 No. C50648
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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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 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.

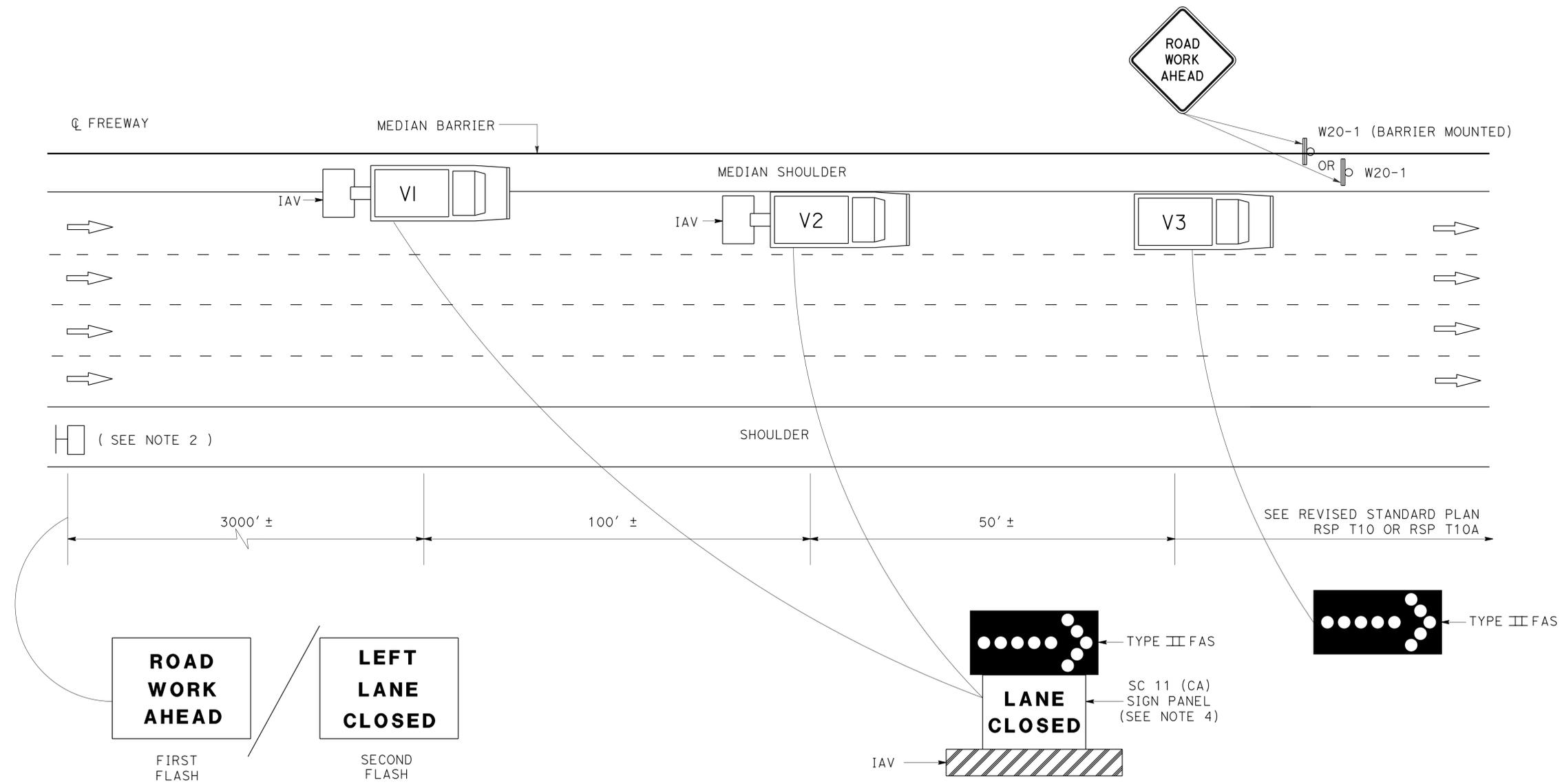
LEGEND

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

ABBREVIATIONS

- IAV IMPACT ATTENUATOR VEHICLE
- (CA) CALIFORNIA CODE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans
 DTMM
 FUNCTIONAL SUPERVISOR: SAMUEL ESQUENAZI
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 REVISIONS: [blank]
 REVISED BY: ALBERT K YU, JOCELYN C CHIANG
 DATE REVISED: 2/14
 JC



PCMS OR TRUCK MOUNTED CMS MESSAGE

**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR MEDIAN SHOULDERS LESS THAN 8 FEET
NO SCALE**

THD-6

LAST REVISION | DATE PLOTTED => 05-MAR-2015
 02-23-15 | TIME PLOTTED => 1:3:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	12	40

Senju Katayama 12-10-14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

D.S. KATAYAMA
 No. C50648
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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NOTES:

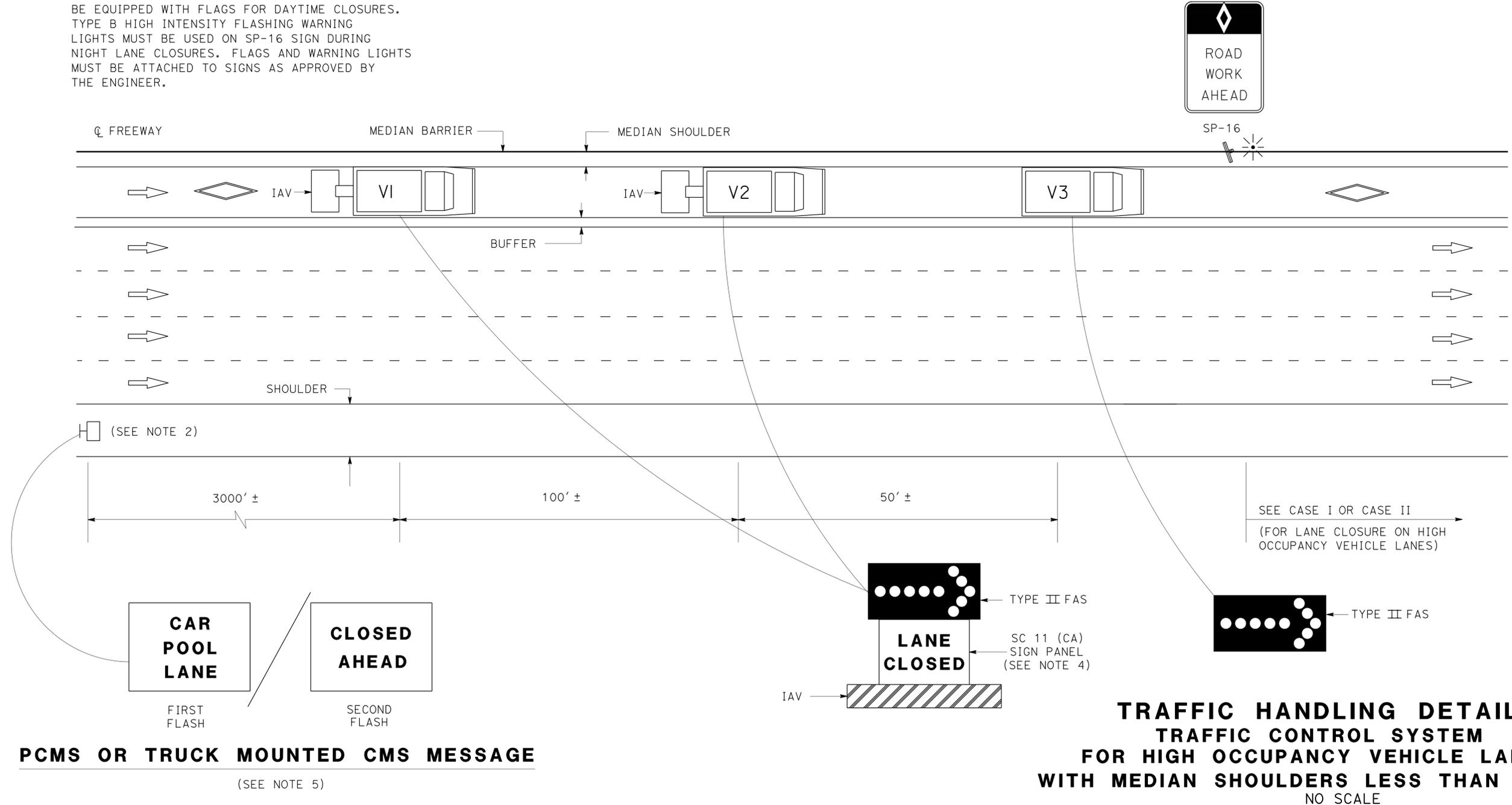
- LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PCMS MUST BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
- A MINIMUM SIGHT DISTANCE OF 1500' MUST BE PROVIDED IN ADVANCE OF PCMS.
- VEHICLE-MOUNTED SIGN PANELS MUST BE TYPE III OR IV RETROREFLECTORIZED 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

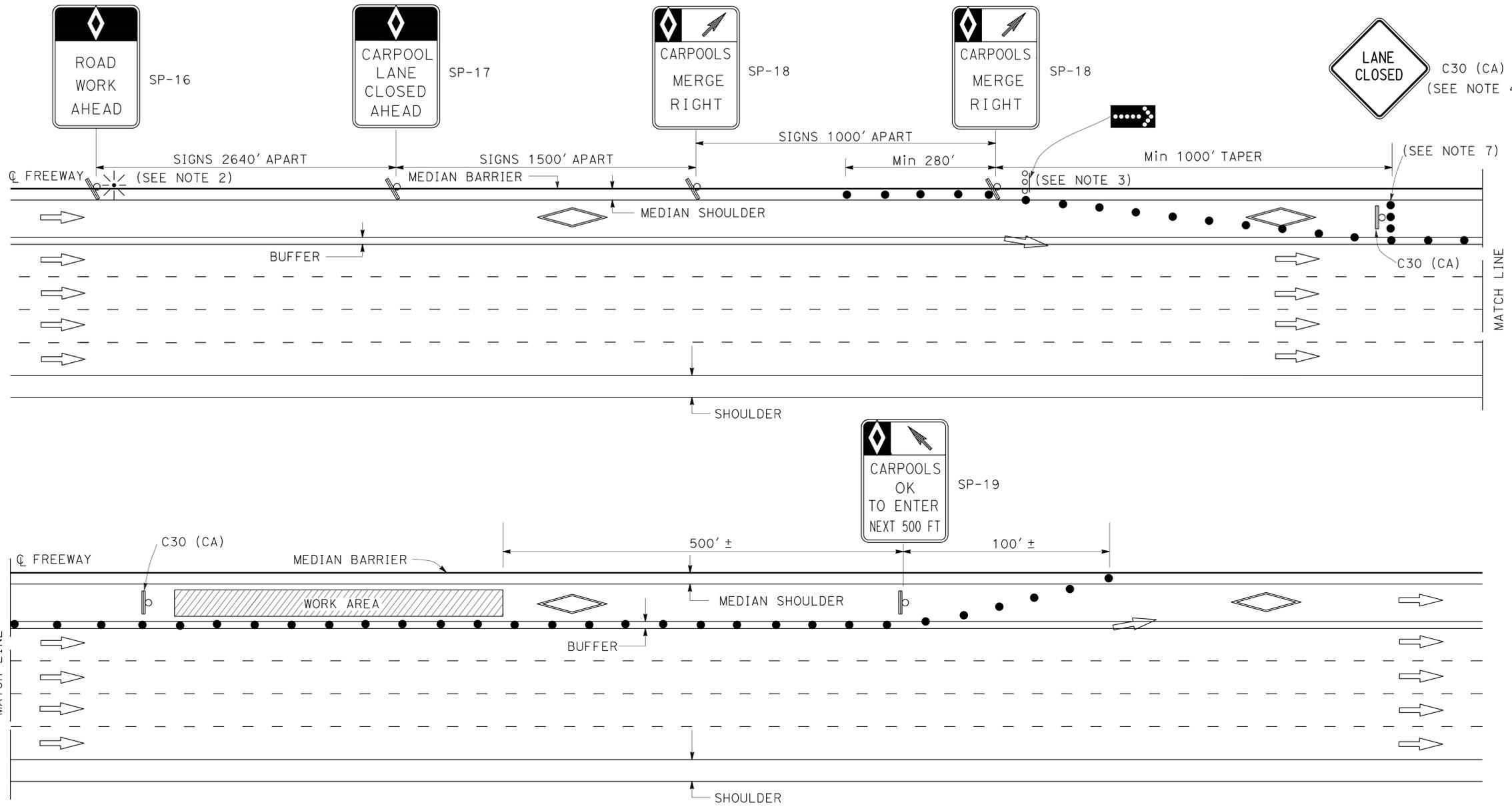


TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR HIGH OCCUPANCY VEHICLE LANES
WITH MEDIAN SHOULDERS LESS THAN 8 FEET
 NO SCALE

THD-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DTM
 FUNCTIONAL SUPERVISOR: SAMUEL ESQUENAZI
 CALCULATED/DESIGNED BY: ALBERT K YU
 CHECKED BY: JOCELYN C CHIANG
 REVISED BY: JC
 DATE REVISED: 2/14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	13	40
<i>Senju Katayama</i> 12-10-14 REGISTERED CIVIL ENGINEER DATE 2-23-15 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.					



- 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**

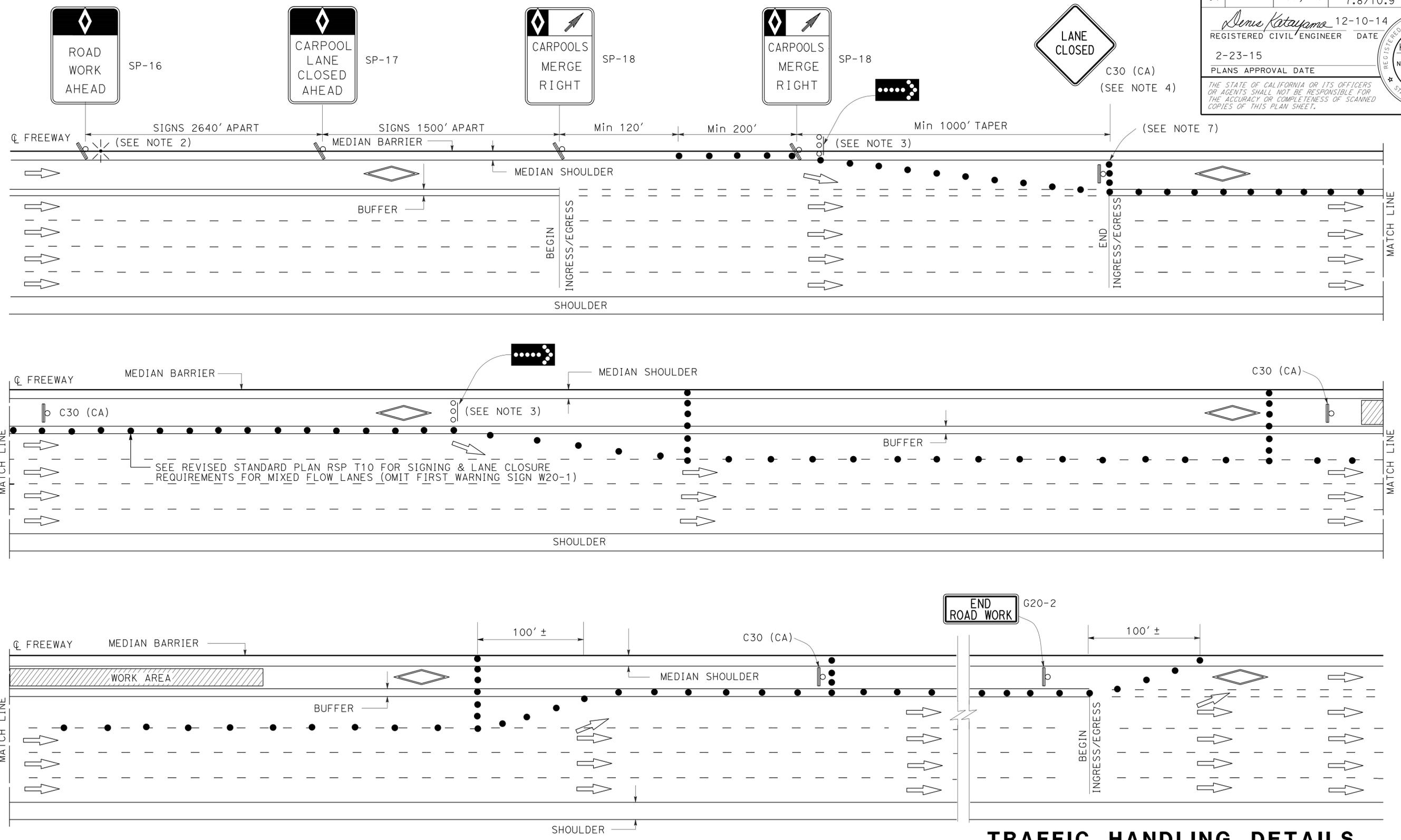
THD-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
Caltrans

ALBERT K YU
JOCELYN C CHIANG
SAMUEL ESQUENAZI

JC
2/14
REVISOR BY
DATE REVISED
CALCULATED/DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	14	40
<i>Genis Katayama</i> 12-10-14 REGISTERED CIVIL ENGINEER DATE					
2-23-15 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>					



NOTES:

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

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTM
 FUNCTIONAL SUPERVISOR: SAMUEL ESQUENAZI
 CHECKED BY: JOCELYN C CHIANG
 REVISIONS: JC 2/14
 REVISIONS: ALBERT K YU
 REVISIONS: JOCELYN C CHIANG

LAST REVISION | DATE PLOTTED => 05-MAR-2015
 02-23-15 | TIME PLOTTED => 1:31:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	15	40

Denis Katayama 12-10-14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 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:

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

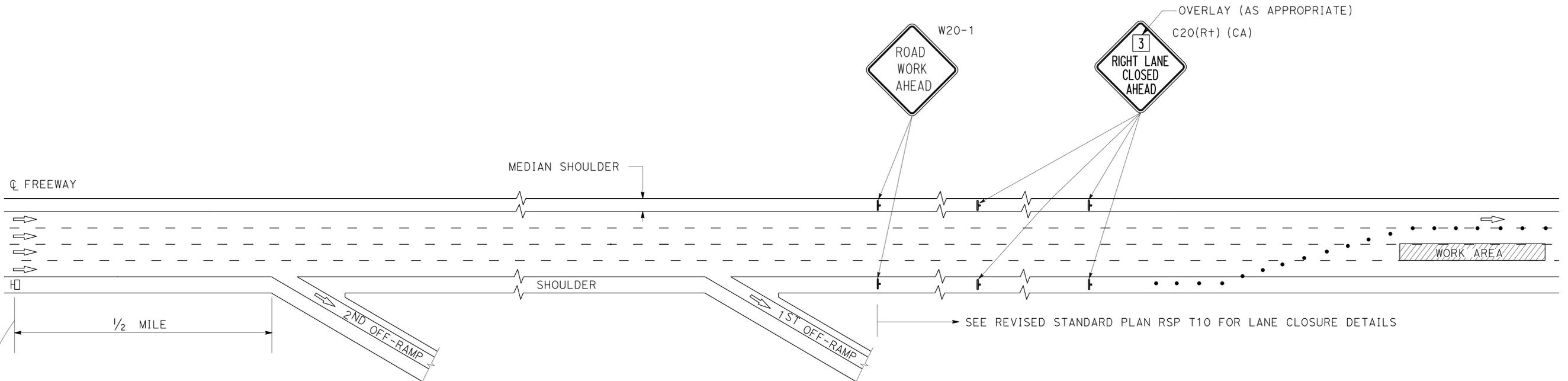
ABBREVIATIONS

(CA) CALIFORNIA CODE

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ☐ PCMS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTMM
 FUNCTIONAL SUPERVISOR: SAMUEL ESQUENAZI
 CHECKED BY: JOCELYN C CHIANG
 REVISIONS: JC 2/14



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

WORDING FORMAT FOR PCMS MESSAGE

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR CONCRETE BACKWALL RECONSTRUCTION
 NO SCALE

THD-10

LAST REVISION DATE PLOTTED => 05-MAR-2015
 02-23-15 TIME PLOTTED => 13:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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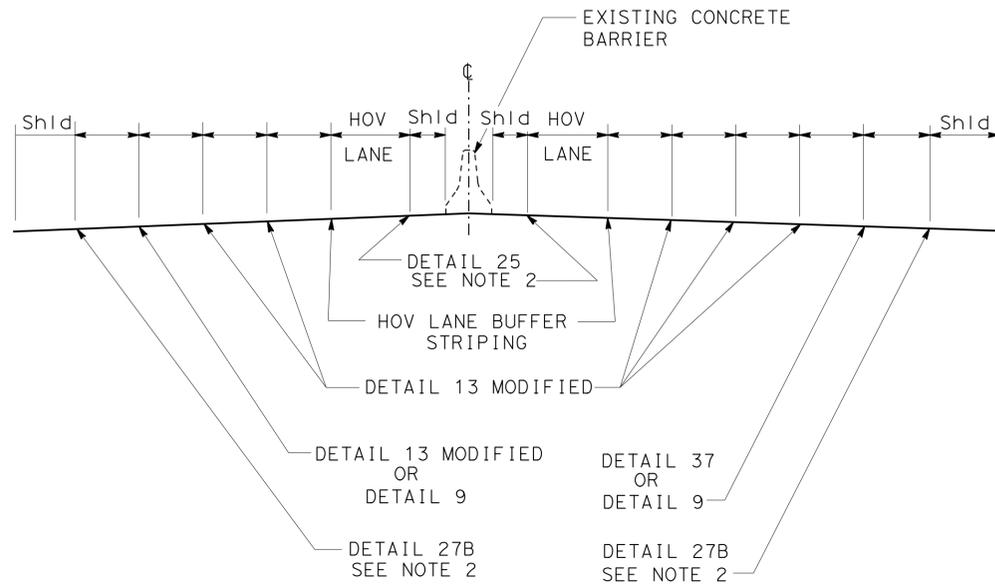
Larry Wiering 12-30-14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LARRY WIERING
 No. 50125
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

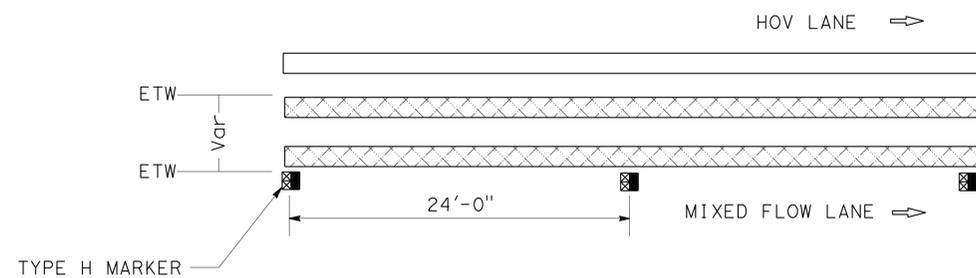
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

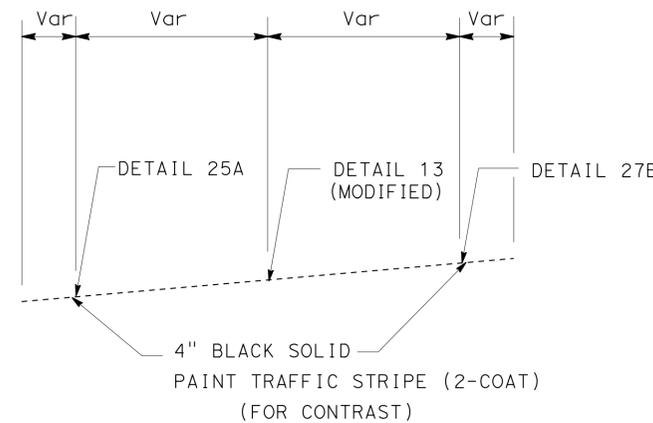
- SEE PAVEMENT DELINEATION QUANTITIES FOR TYPES AND LOCATIONS OF THERMOPLASTIC TRAFFIC STRIPING.
- ADD 4" BLACK SOLID PAINT TRAFFIC STRIPE (2-COAT) ON ROUTE 710 AT NORTHBOUND AND SOUTHBOUND DEL AMO BOULEVARD UNDERCROSSING.



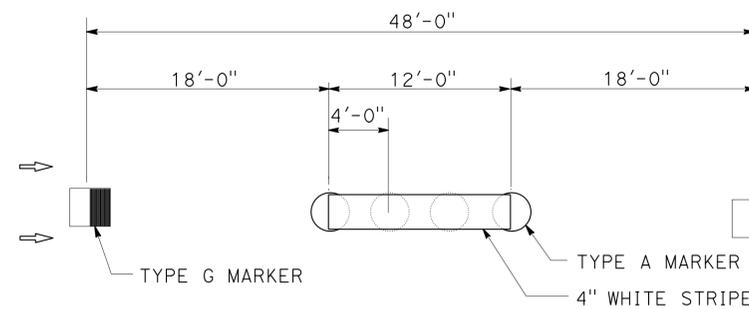
TYPICAL DETAIL FOR MAINLINE TRAFFIC STRIPING



HOV LANE BUFFER STRIPING



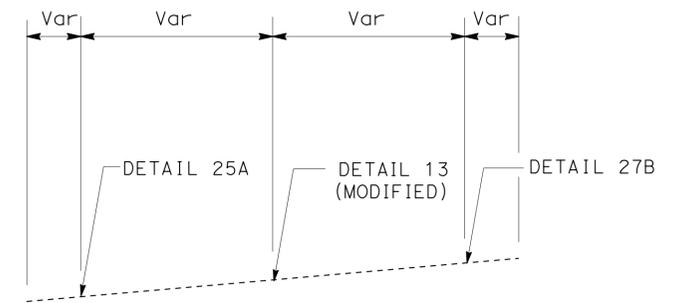
SB ROUTE 710 TO SB ROUTE 405 CONNECTOR OVERCROSSING



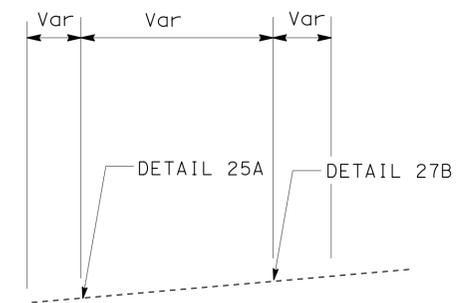
DETAIL 13 (MODIFIED)

NOTE:

STRIPING CONSISTS OF DETAIL 13 WITH THE ADDITION OF A 4" WIDE THERMOPLASTIC WHITE STRIPE 12'-0" LONG ON TOP OF TYPE A NON REFLECTIVE MARKERS.



TWO-LANE CONNECTOR



ONE-LANE CONNECTOR

TYPICAL DETAIL FOR CONNECTOR TRAFFIC STRIPING

PAVEMENT DELINEATION DETAILS NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR PAUL CRISPI
 AVO BOYNERIAN LARRY WIERING
 REVISOR BY DATE
 CALCULATED/DESIGNED BY CHECKED BY
 x x x x x

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	17	40

Larry Wiering 12-30-14
REGISTERED CIVIL ENGINEER DATE

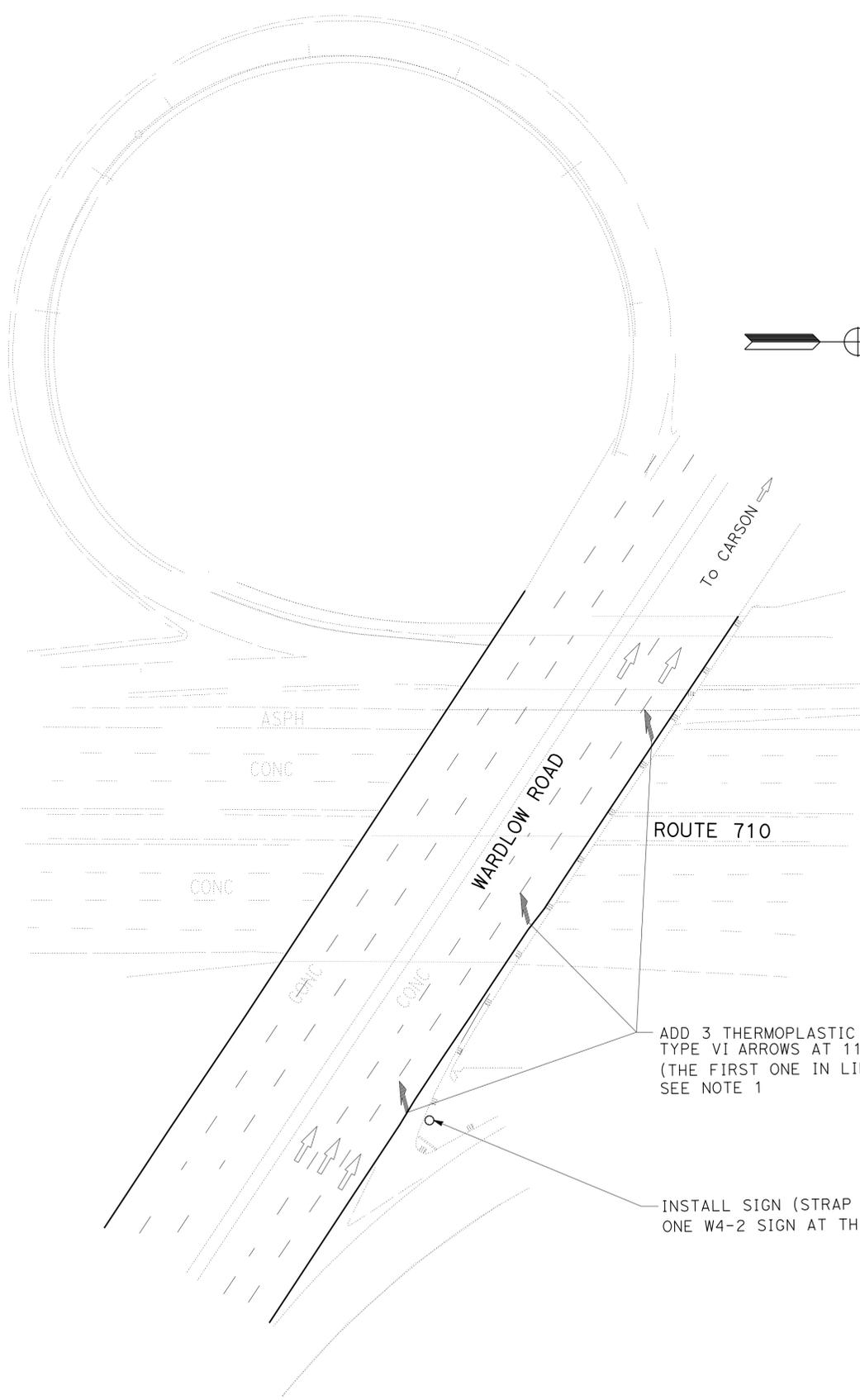
2-23-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LARRY WIERING
No. 50125
Exp. 3-31-17
CIVIL
STATE OF CALIFORNIA

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

NOTE:
1. SEE PAVEMENT DELINEATION QUANTITIES FOR THERMOPLASTIC PAVEMENT MARKING TYPE VI ARROW QUANTITIES.

SIGN QUANTITIES			
ROUTE	DIRECTION	LOCATION PM	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)
			EA
710	WB	9.07	1
TOTAL			1



ADD 3 THERMOPLASTIC PAVEMENT MARKING
TYPE VI ARROWS AT 110' SPACING
(THE FIRST ONE IN LINE WITH THE W4-2 SIGN)
SEE NOTE 1

INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)
ONE W4-2 SIGN AT THE LIGHT POST

WARDLOW ROAD OVERCROSSING

Br No. 53-0727 PM 9.07

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED/DESIGNED BY: AVO BOYNERIAN
CHECKED BY: LARRY WIERING
REVISED BY: DATE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

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

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

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

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9'	20	40

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 2-23-15

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

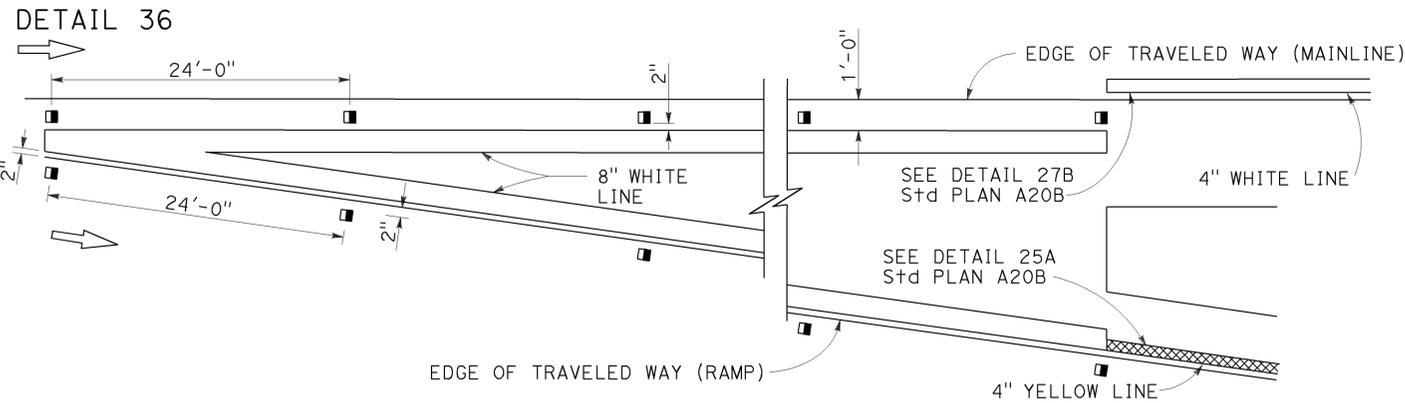
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

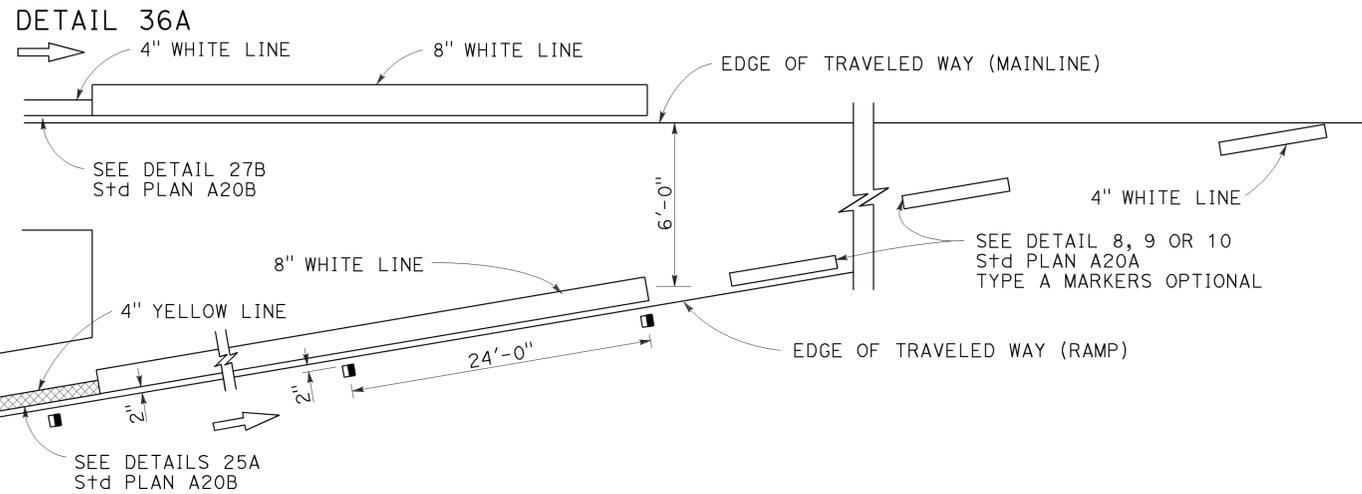
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

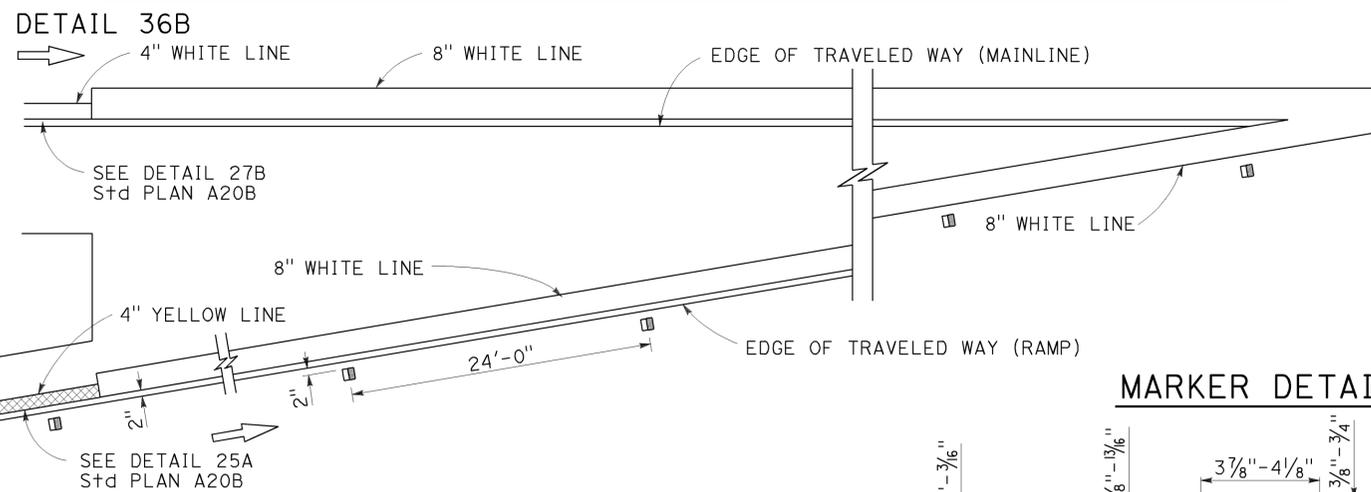
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

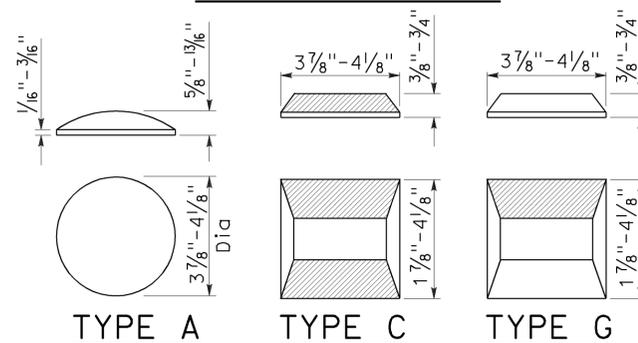


MARKER DETAILS

LEGEND:

MARKERS

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



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	21	40

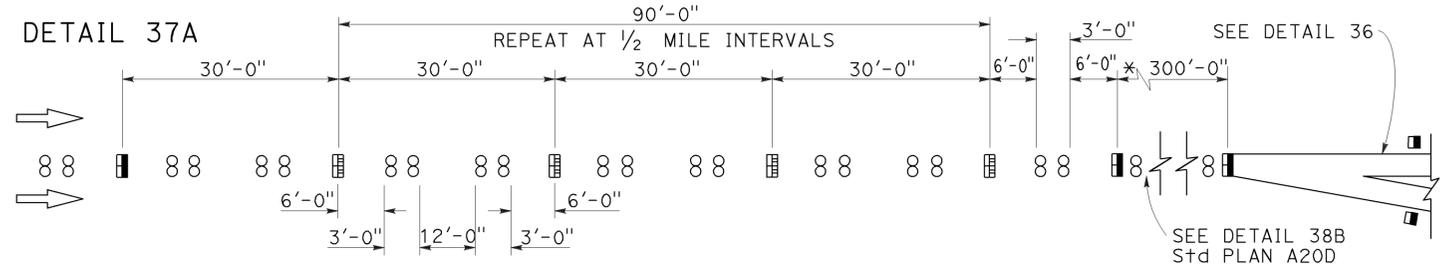
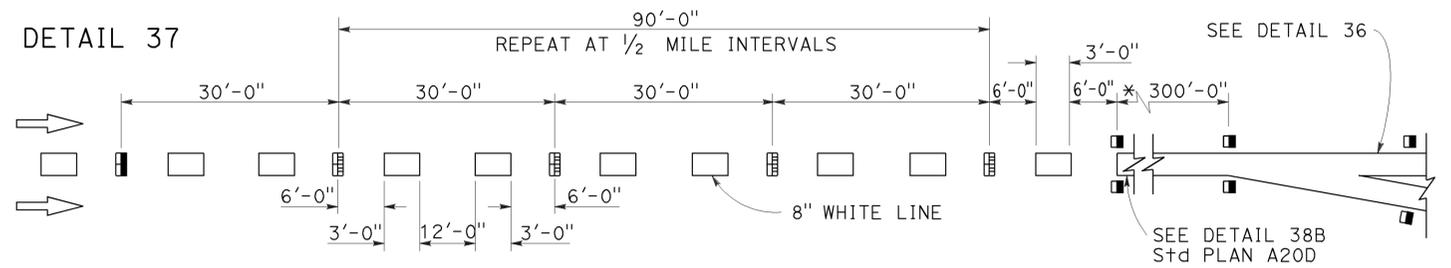
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 No. C40375
 Exp. 3-31-15
 CIVIL
 STATE OF CALIFORNIA

July 19, 2013
 PLANS APPROVAL DATE

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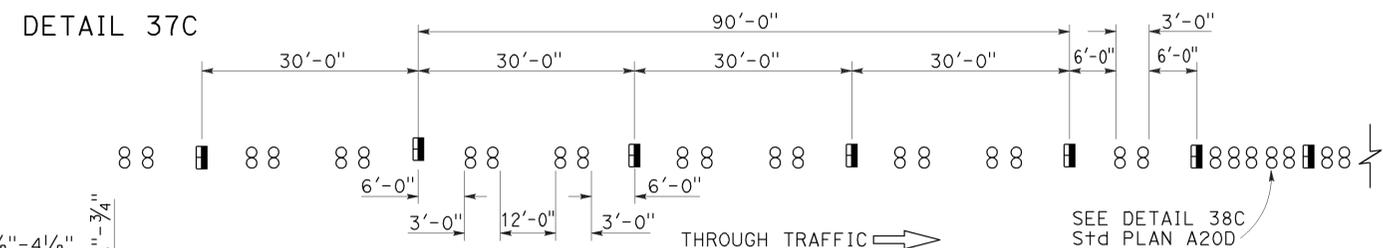
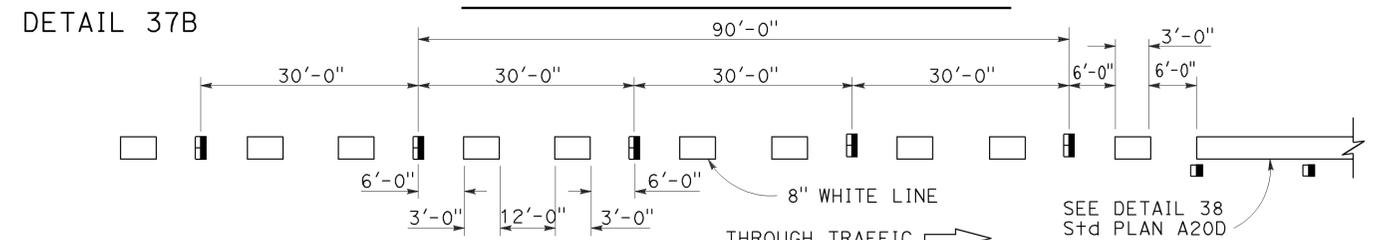
TO ACCOMPANY PLANS DATED 2-23-15

LANE DROP AT EXIT RAMPS



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

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

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

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

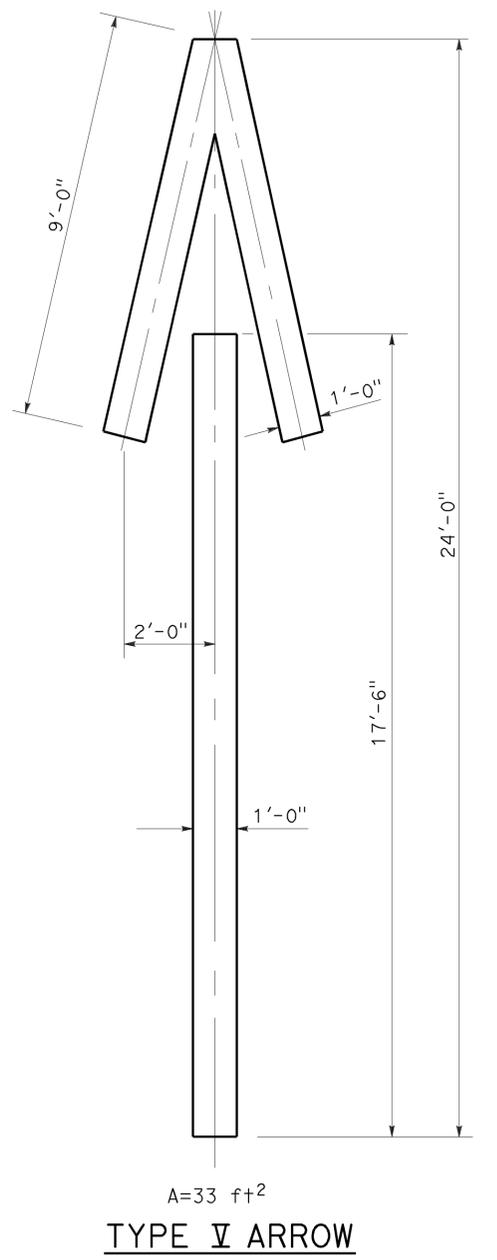
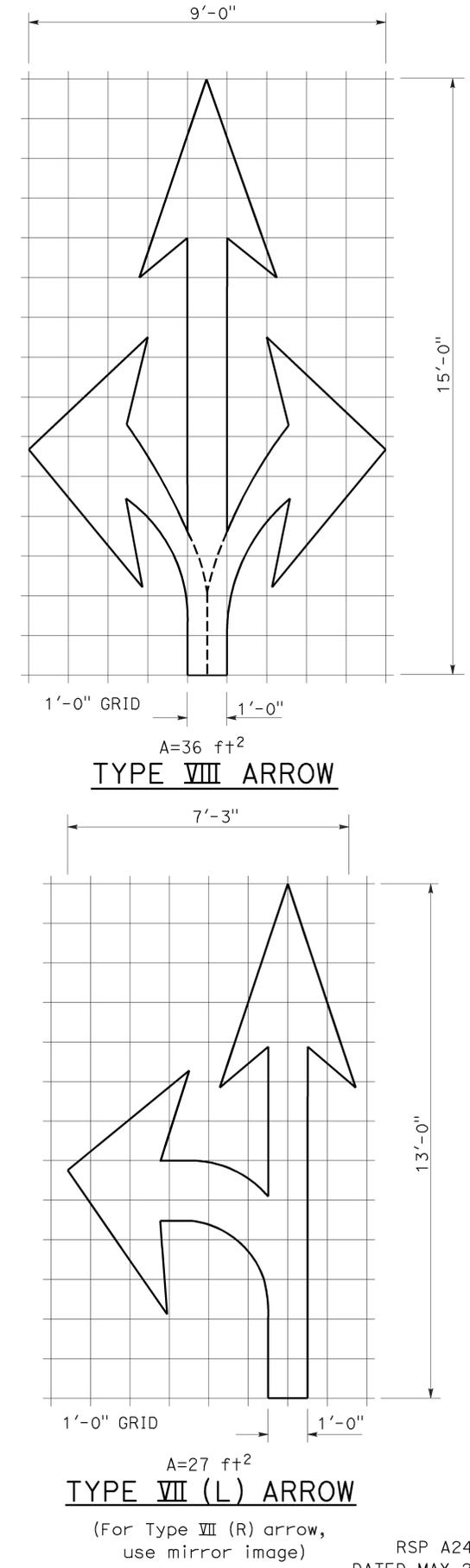
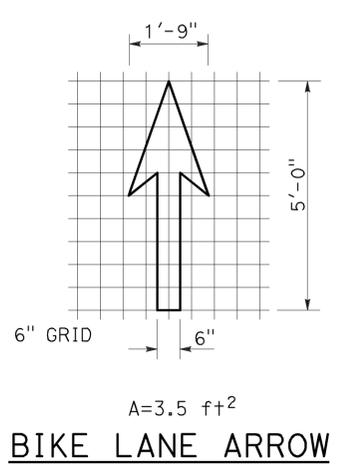
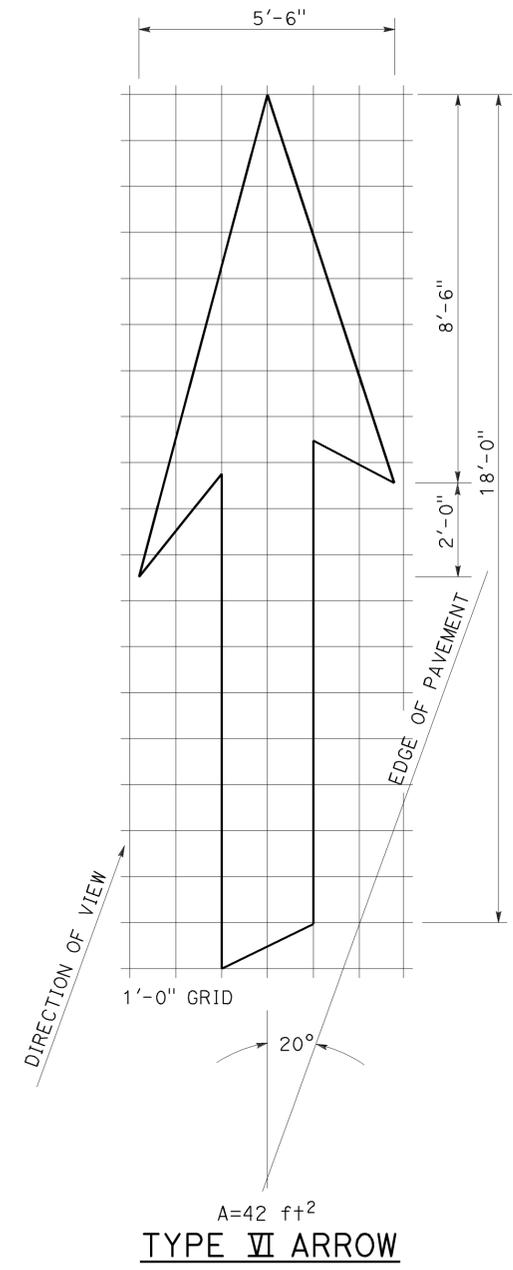
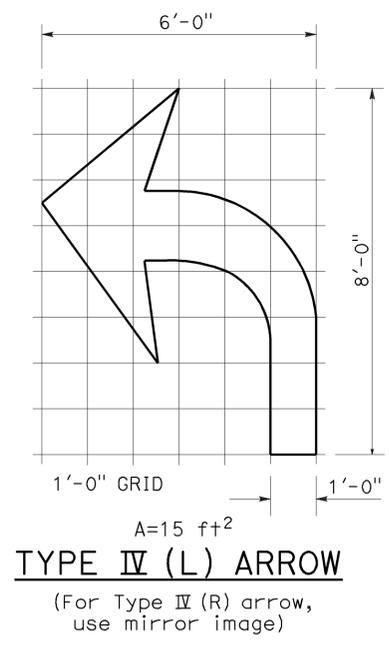
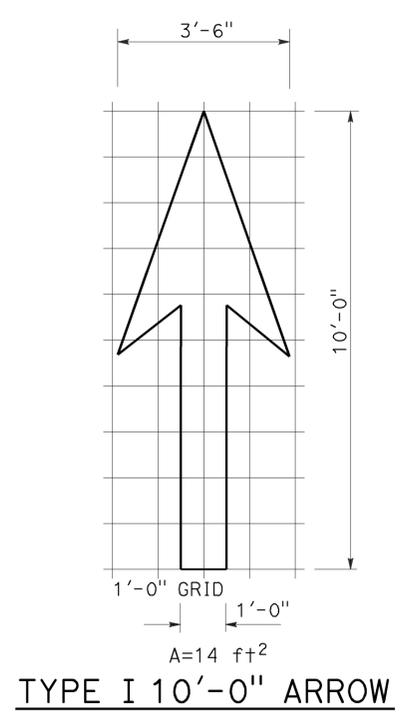
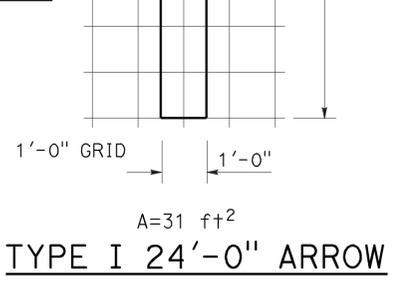
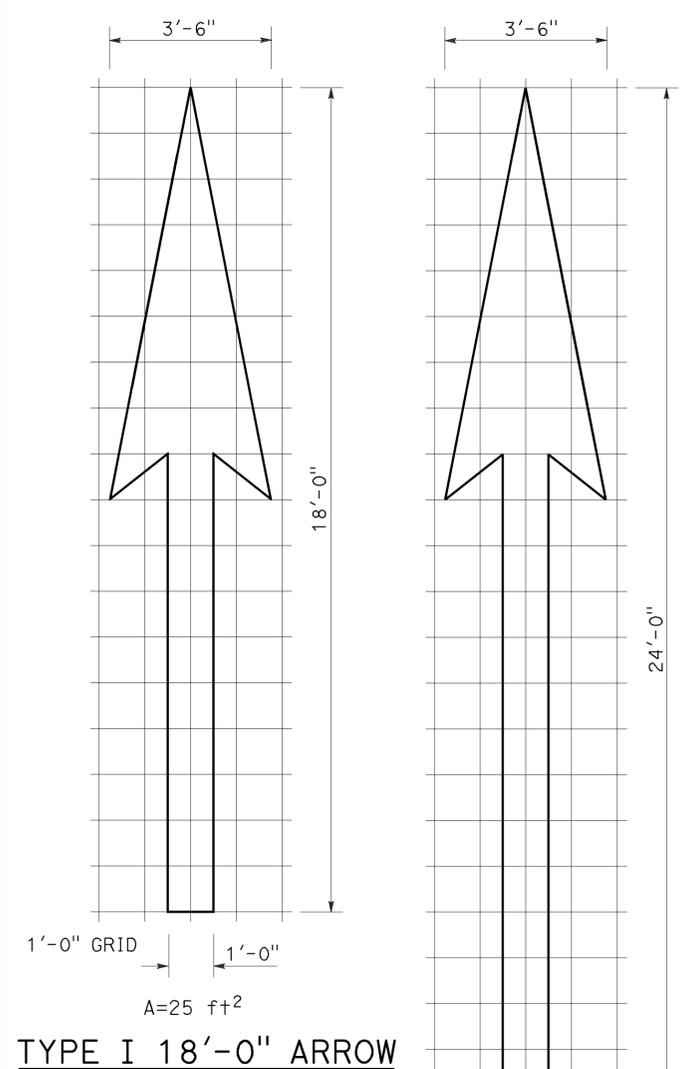
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	22	40

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

April 20, 2012
 PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 2-23-15

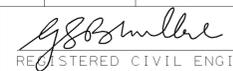


NOTE:
 Minor variations in dimensions
 may be accepted by the Engineer.

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

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9'	23	40


 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 2-23-15

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

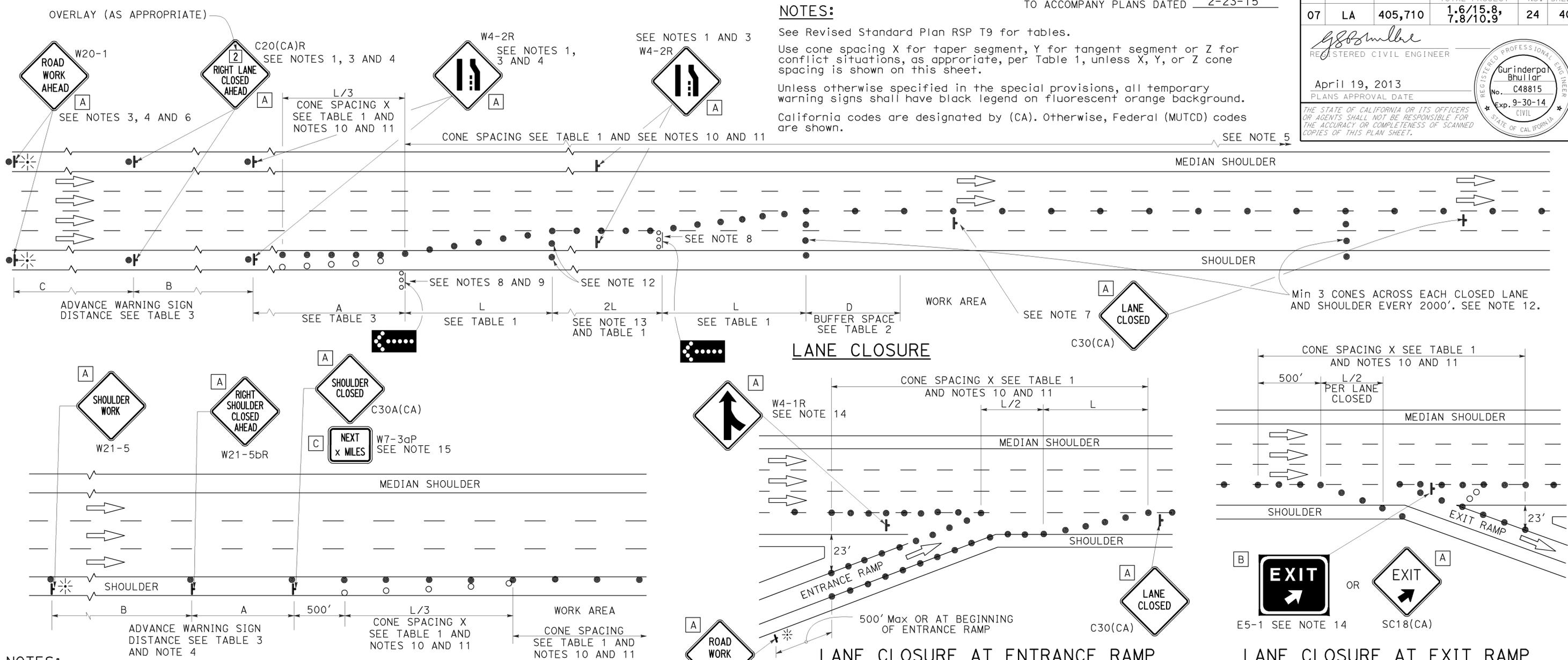
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	24	40

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

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

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

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

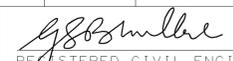
NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

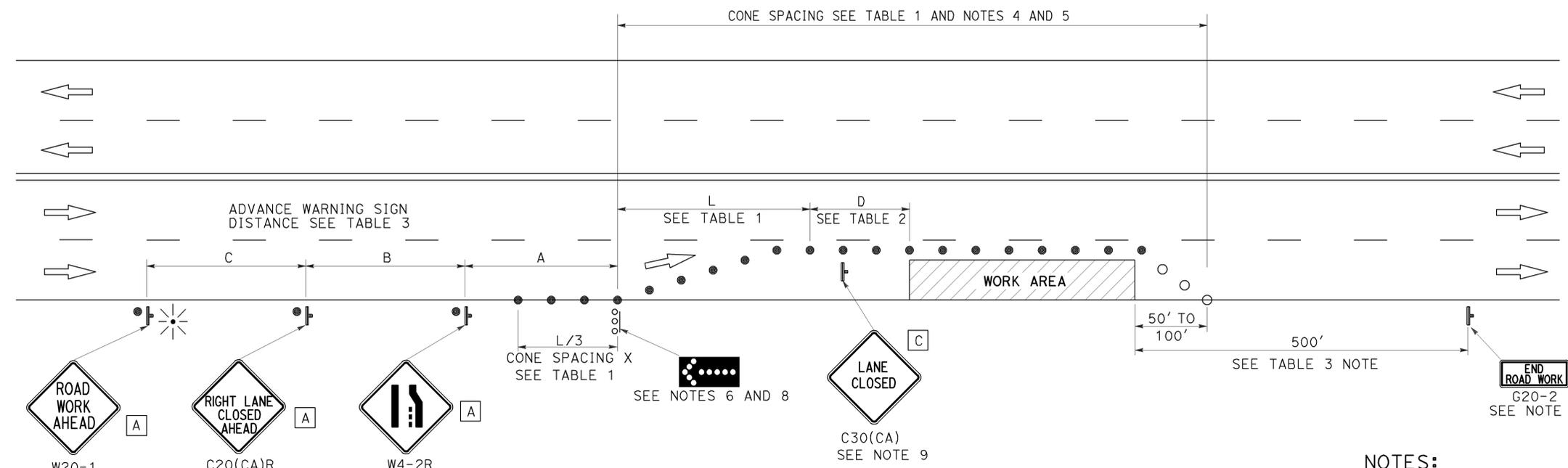
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	25	40


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 2-23-15



TYPICAL LANE CLOSURE

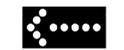
NOTES:

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

NOTES:

1. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
8. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
9. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

LEGEND

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

SIGN PANEL SIZE (Min)

- A** 48" x 48"
- B** 36" x 18"
- C** 30" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS**

NO SCALE

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

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

LEGEND

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

SIGN PANEL SIZE (Min)

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

NOTES:

See Revised Standard Plan RSP T9 for tables.

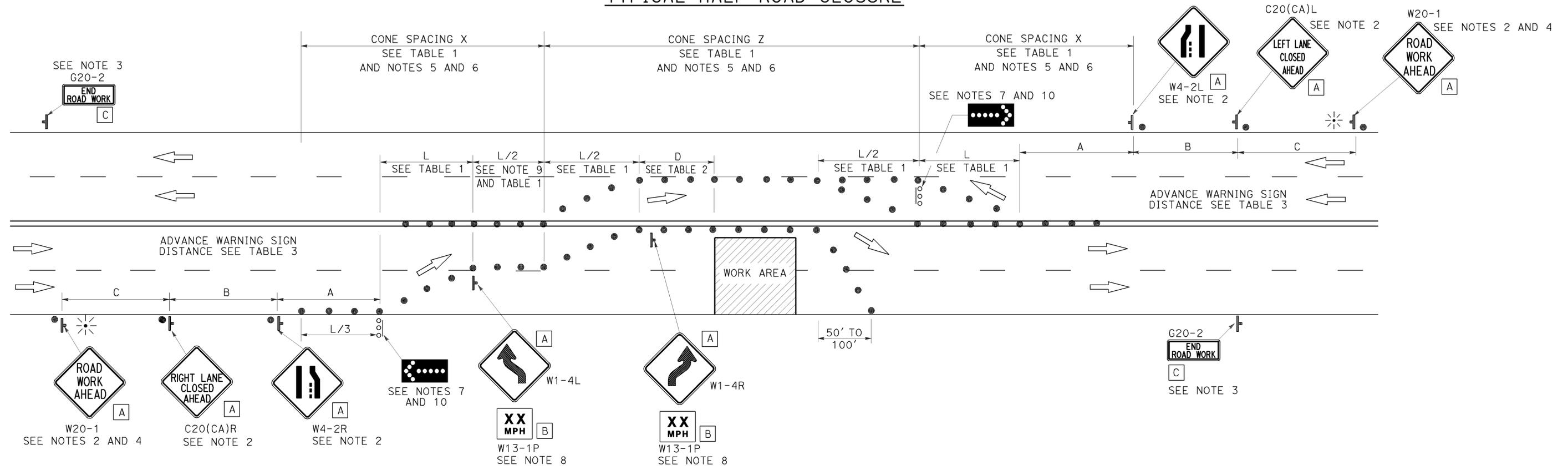
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

TO ACCOMPANY PLANS DATED 2-23-15

TYPICAL HALF ROAD CLOSURE



NOTES:

1. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow signs shall be either Type I or Type II.
8. Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
9. Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
10. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T12

2010 REVISED STANDARD PLAN RSP T12

NOTES:

See Revised Standard Plan RSP T9 for tables.

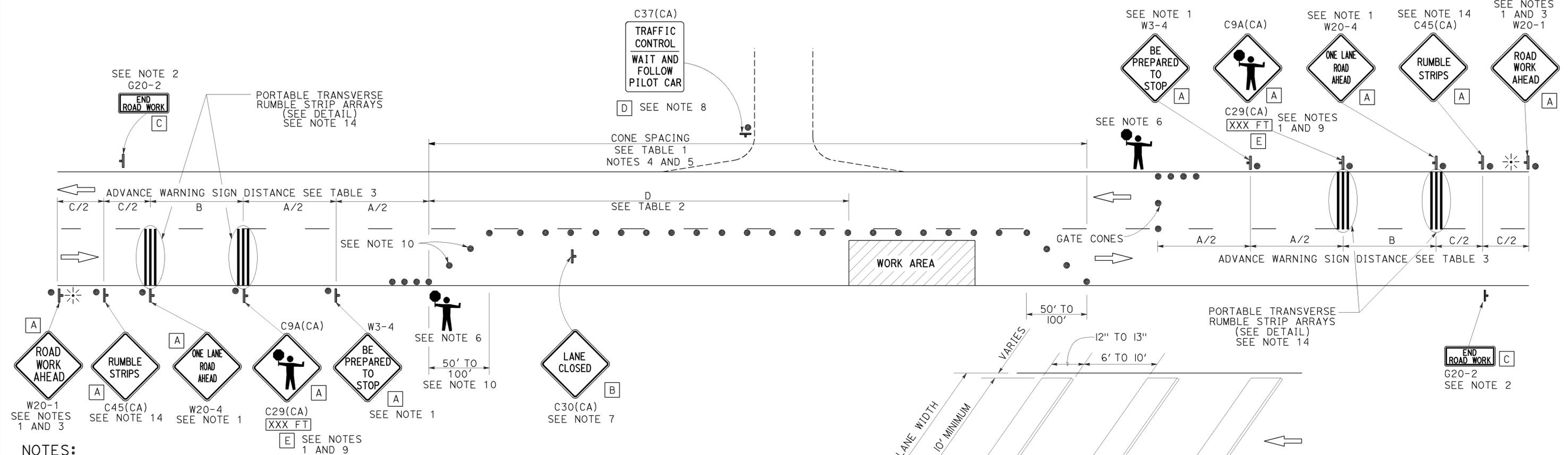
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

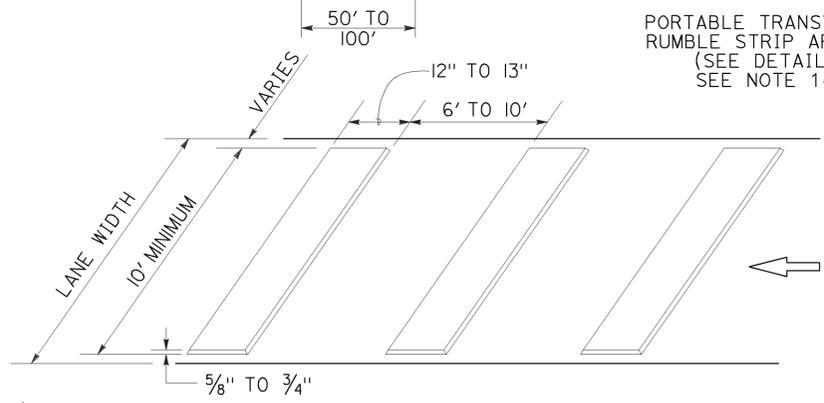
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 2-23-15



- NOTES:**
- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
 - If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
 - Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.

- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions



SIGN PANEL SIZE (Min)

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

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

RSP T13 DATED OCTOBER 17, 2014 SUPERSEDES RSP T13 DATED JULY 18, 2014
AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED
MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP T13

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

LEGEND

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

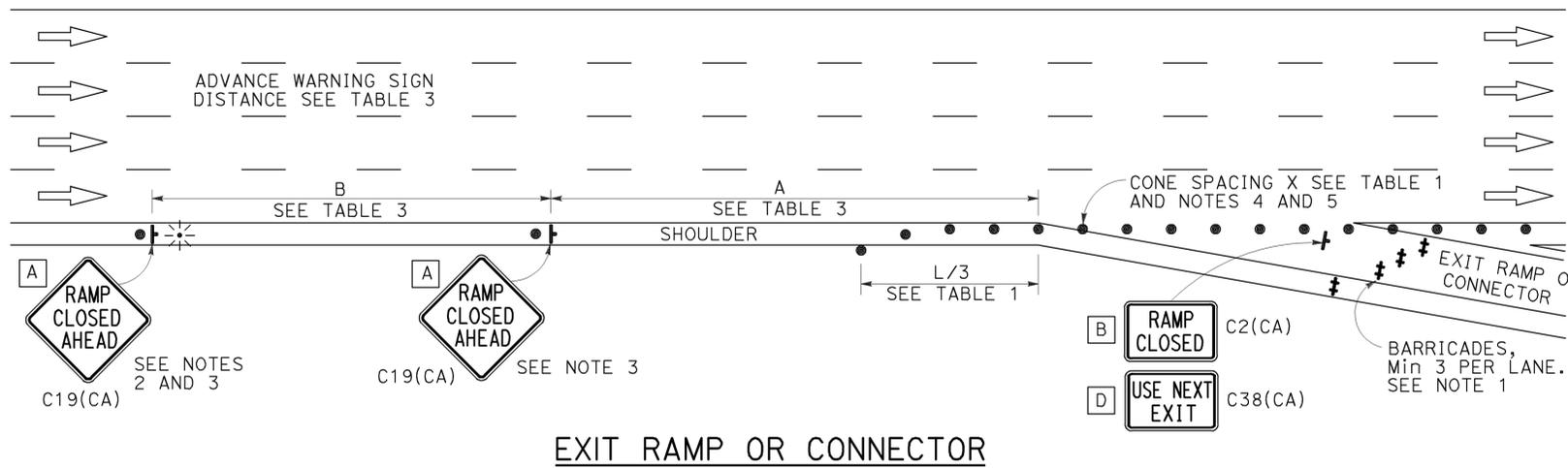
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8, 7.8/10.9	28	40

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.

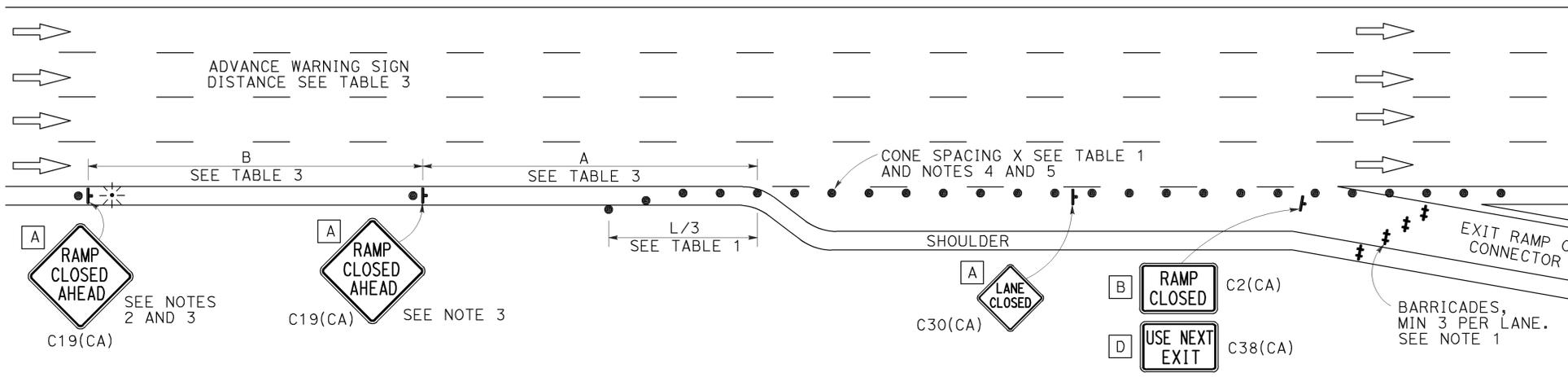
TO ACCOMPANY PLANS DATED 2-23-15

NOTES:

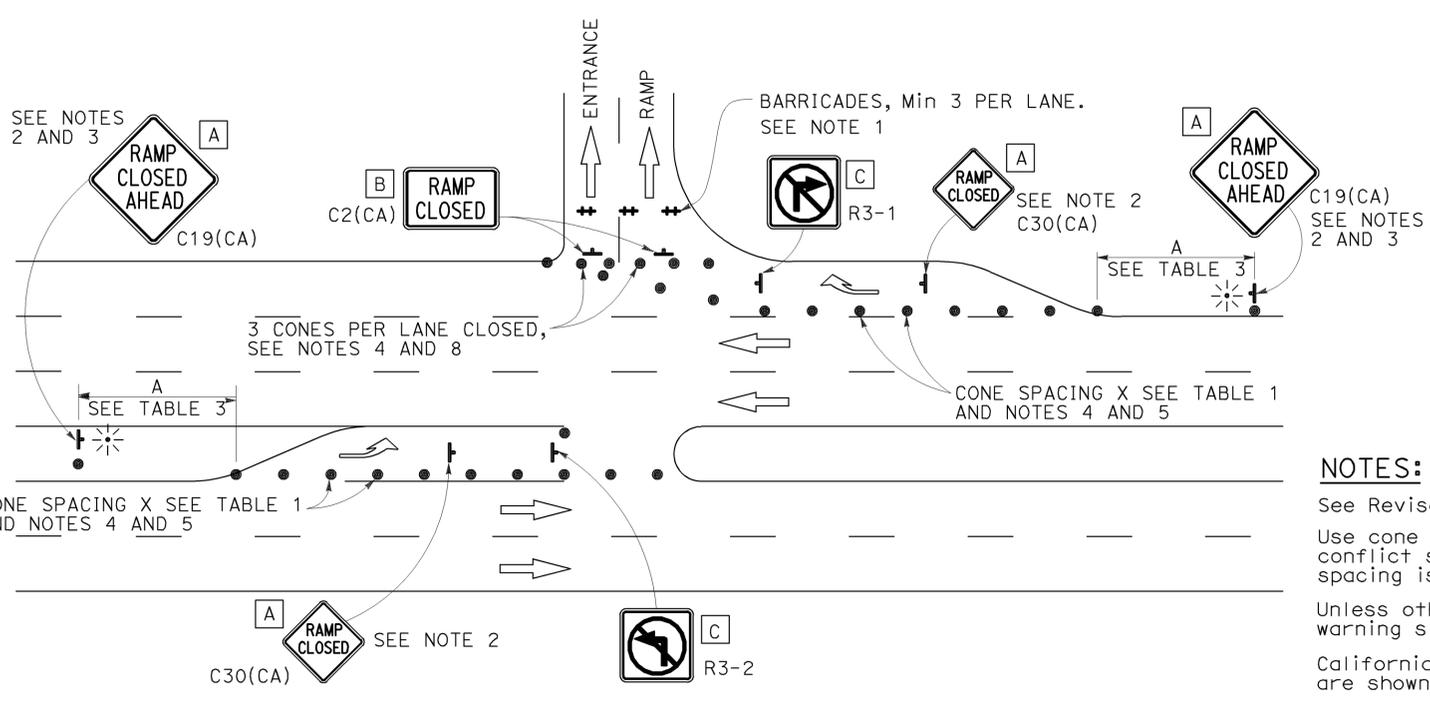
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



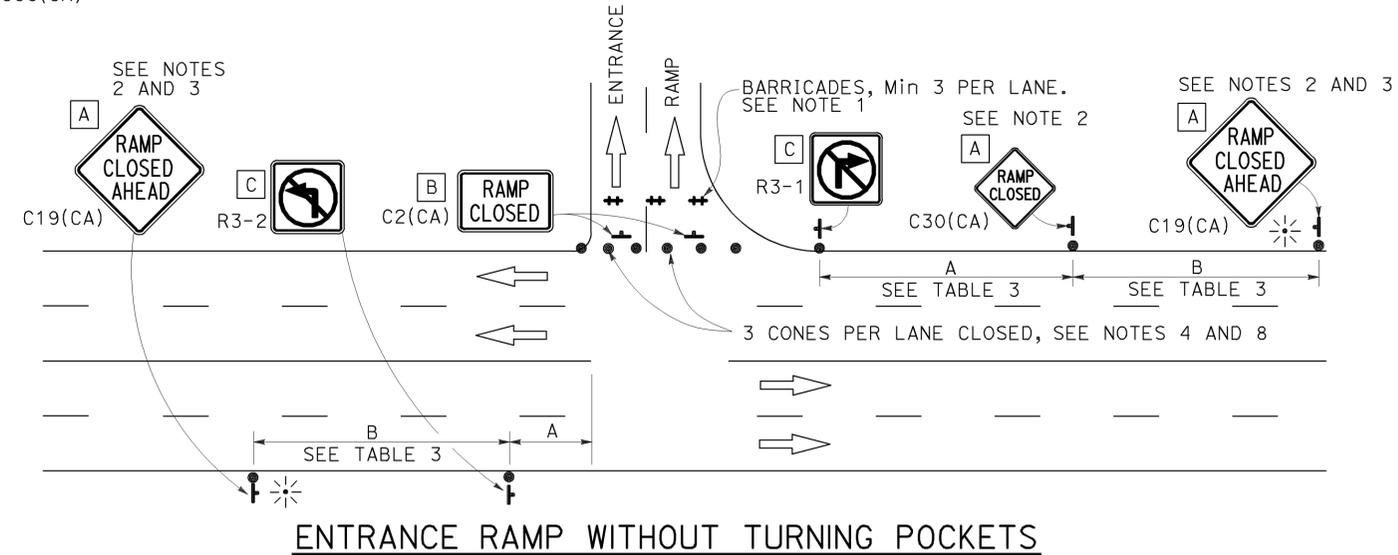
EXIT RAMP OR CONNECTOR



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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	29	40

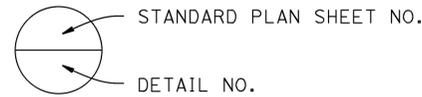
11/14/14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- INDICATES EXISTING.
- ⇒ INDICATES DIRECTION OF TRAFFIC.
- INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL. PRIOR TO PLACEMENT OF NEW JOINT SEAL REPAIR JOINT WITH UNSOUND CONCRETE, AND RAPID SETTING CONCRETE (PATCH).

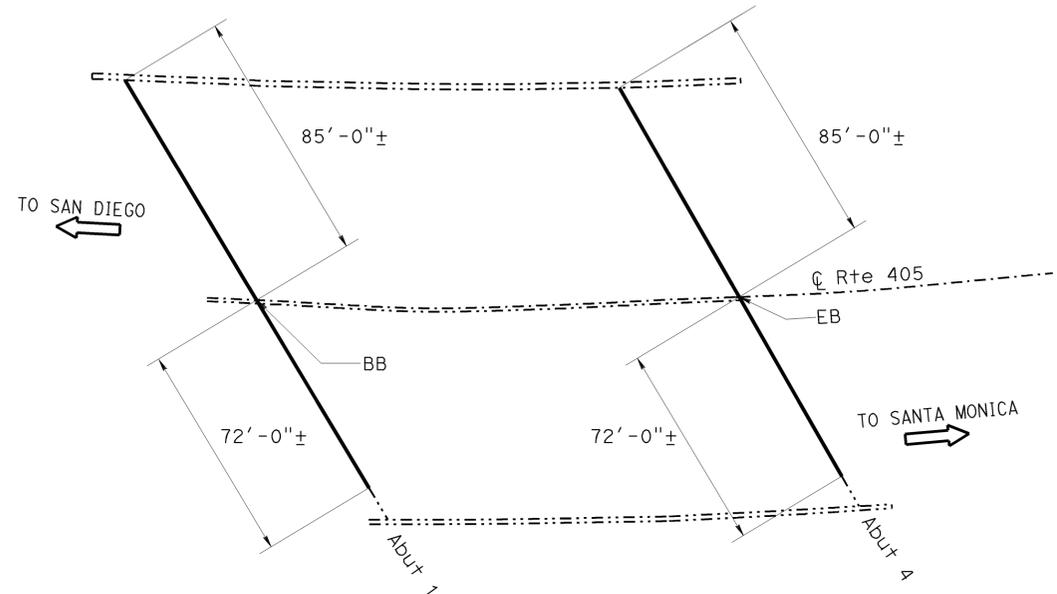
STANDARD PLANS DATED 2010

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



INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	GENERAL PLAN NO. 10
11	MISCELLANEOUS DETAILS NO. 1
12	MISCELLANEOUS DETAILS NO. 2



WOODRUFF AVENUE UC

Br No. 53-1191 RTE 405, PM 1.64
NO SCALE

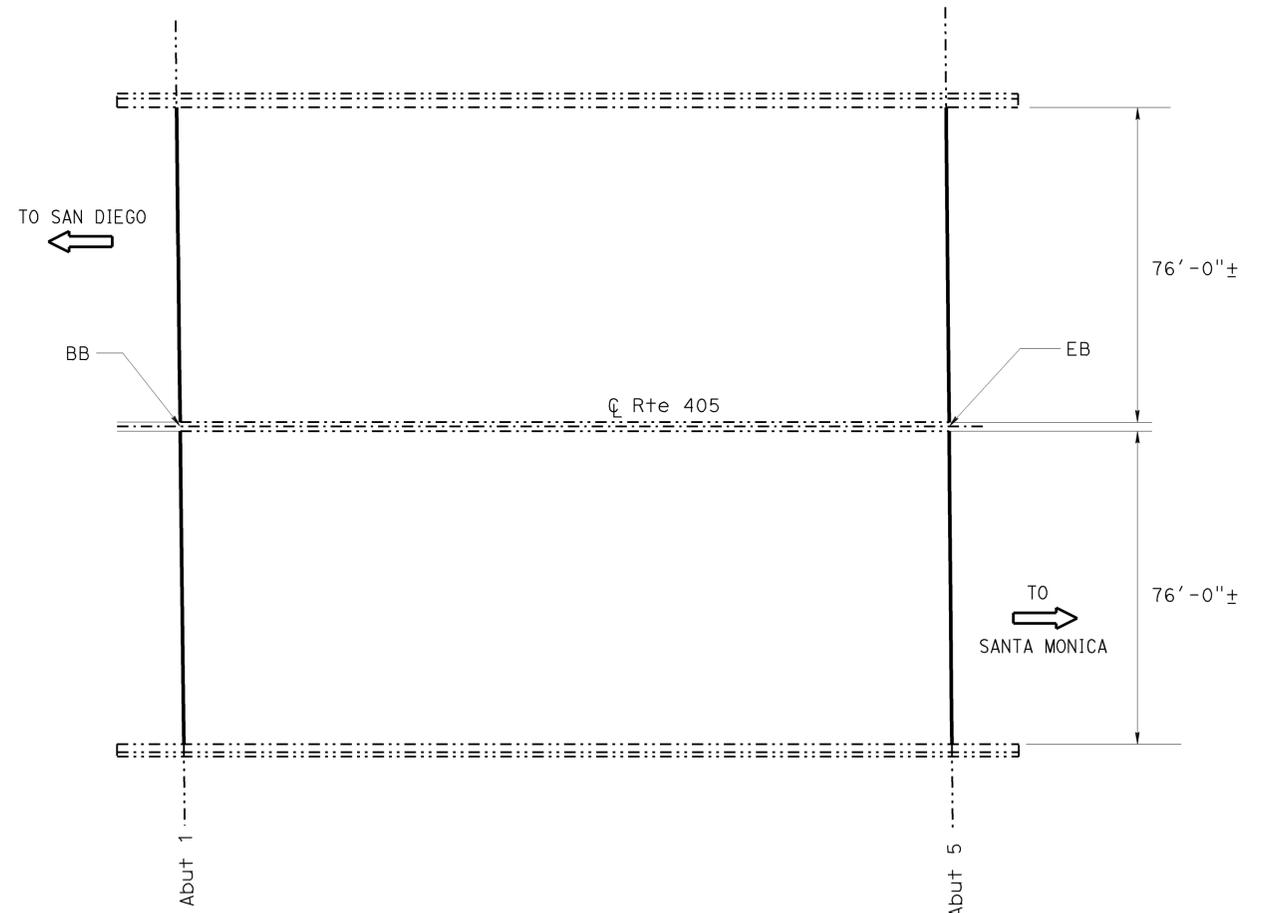
WOODRUFF AVENUE UC #53-1191
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	4 CF
REMOVE UNSOUND CONCRETE	4 CF
CLEAN EXPANSION JOINT	314 LF
JOINT SEAL (MR 1/2")	314 LF

NOTES:

- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For joint spall repair and deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

NOTE:
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CLARK AVENUE UC

Br No. 53-1195, RTE 405, PM 2.76
NO SCALE

CLARK AVENUE UC #53-1195
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	3 CF
REMOVE UNSOUND CONCRETE	3 CF
CLEAN EXPANSION JOINT	304 LF
JOINT SEAL (MR 1/2")	304 LF

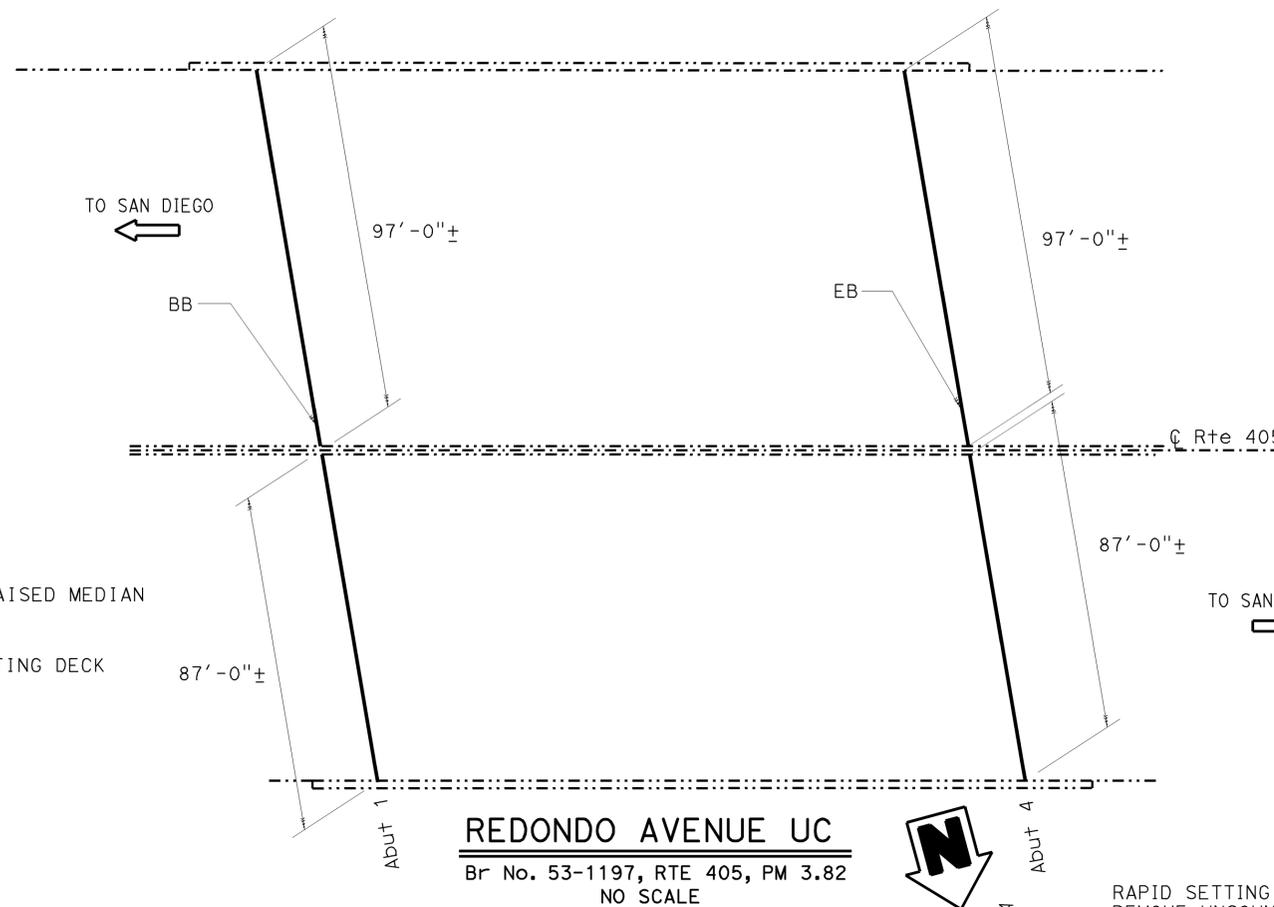
TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY G. Joo	CHECKED E. Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 405 & 710 BRIDGES GENERAL PLAN NO. 1	
	DETAILS	BY E. Goishi	CHECKED G. JOO	LAYOUT	BY G. Joo			CHECKED E. Li		POST MILE
	QUANTITIES	BY G. Joo	CHECKED E. Li	SPECIFICATIONS	BY Kevin Ellingson			PLANS AND SPECS COMPARED Kevin Ellingson		Varies
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)										
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						UNIT: 3489 PROJECT NUMBER & PHASE: 0713000448-1		CONTRACT NO.: 07-2W7504		
DISREGARD PRINTS BEARING EARLIER REVISION DATES								REVISION DATES		
								08-31-14	11-6-14	
								SHEET	OF	
								01	12	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	30	40

11/14/14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE
 No. C65380
 Exp. 09/30/15
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

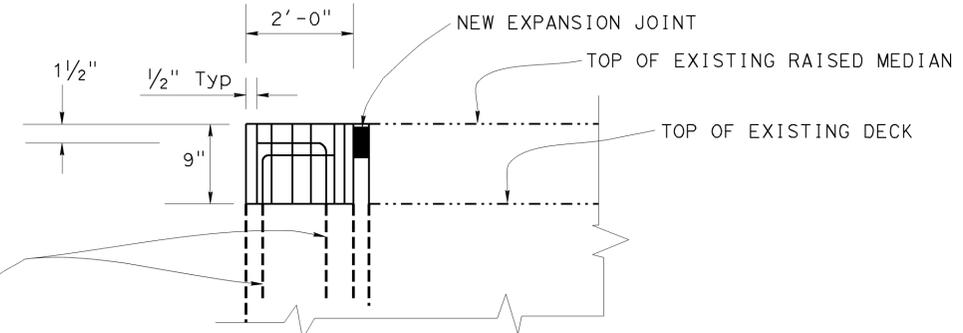
- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- ▨ INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. PRIOR TO BRIDGE DECK TREATMENT, REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE (PATCH).
- INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL. PRIOR TO PLACEMENT OF NEW JOINT SEAL REPAIR JOINT WITH UNSOUND CONCRETE, AND RAPID SETTING CONCRETE (PATCH).
- ▤ INDICATES BRIDGE REMOVAL (PORTION) AND PLACE MINOR CONCRETE (CURB).



REDONDO AVENUE UC
 Br No. 53-1197, RTE 405, PM 3.82
 NO SCALE

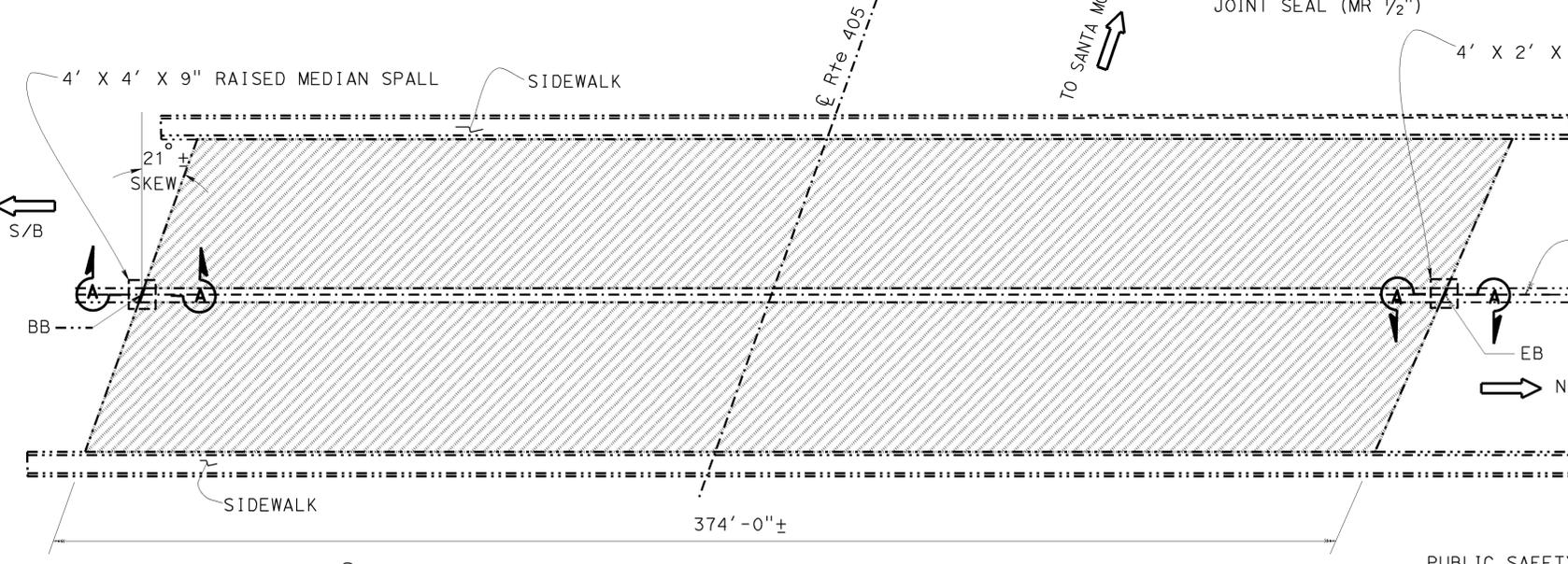
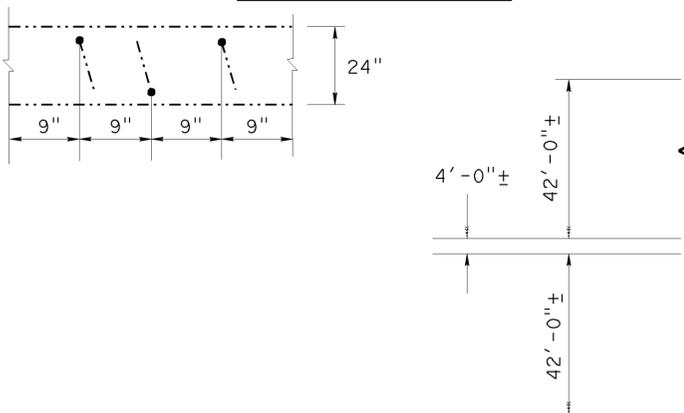
REDONDO AVENUE UC #53-1197
 QUANTITIES

RAPID SETTING CONCRETE (PATCH)	3 CF
REMOVE UNSOUND CONCRETE	3 CF
CLEAN EXPANSION JOINT	368 LF
JOINT SEAL (MR 1/2")	368 LF



SECTION A-A

4# @18" DRILL AND BOND IN 6" DEEP HOLES STAGGERED THUS:
 3" 1'-6" 3"



CHERRY AVENUE OC
 Br No. 53-1200, RTE 405, PM 4.88
 NO SCALE

CHERRY AVENUE OC #53-1200
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	82 CF
REMOVE UNSOUND CONCRETE	82 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	31,500 SQFT
TREAT BRIDGE DECK	31,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	400 GAL
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CLEAN EXPANSION JOINT	10 LF
JOINT SEAL (MR 1/2")	10 LF
MINOR CONCRETE (CURB) (CY)	1 CY

NOTES:

- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For joint spall repair and deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

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	BY G. Joo	CHECKED E. Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY E. Goishi	CHECKED G. JOO	LAYOUT	BY G. Joo
QUANTITIES	BY G. Joo	CHECKED E. Li	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA	DIVISION OF MAINTENANCE	BRIDGE NO.
DEPARTMENT OF TRANSPORTATION	STRUCTURE MAINTENANCE DESIGN	Various
		POST MILE
		Varies

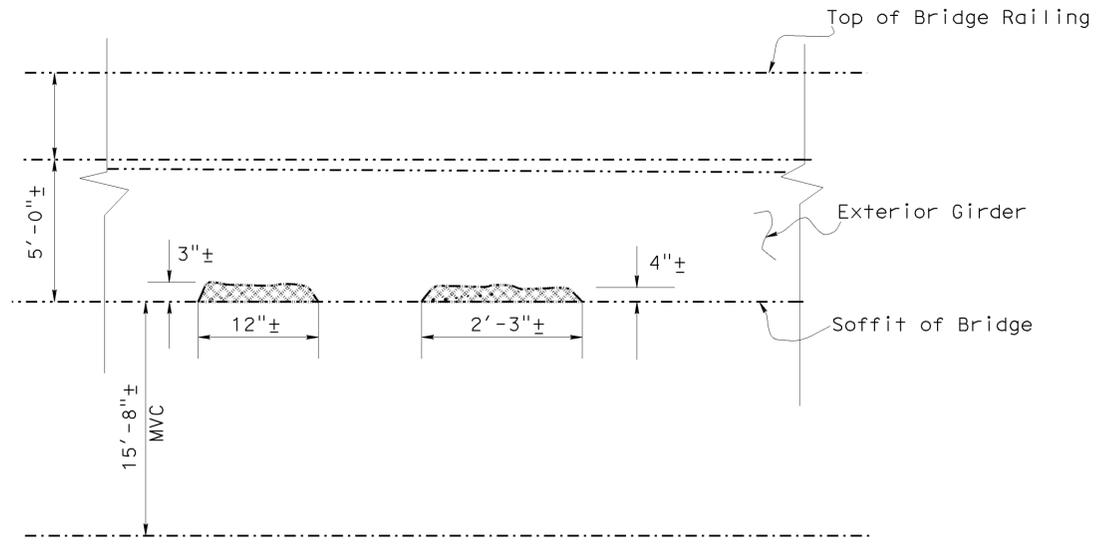
ROUTE 405 & 710 BRIDGES	
GENERAL PLAN NO. 2	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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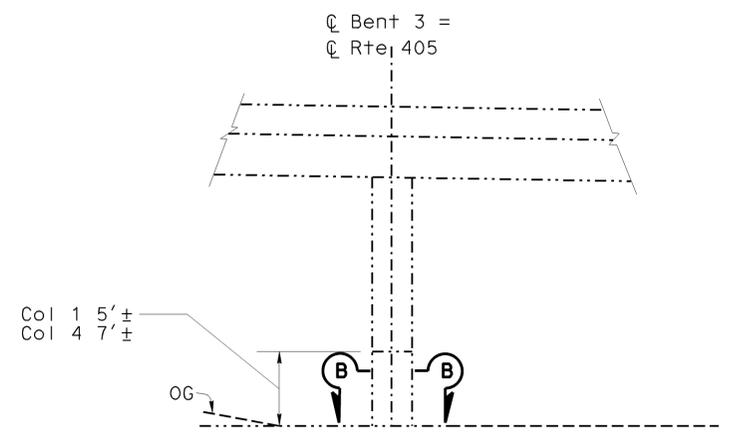
11/14/14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE
 No. C65380
 Exp. 09/30/15
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

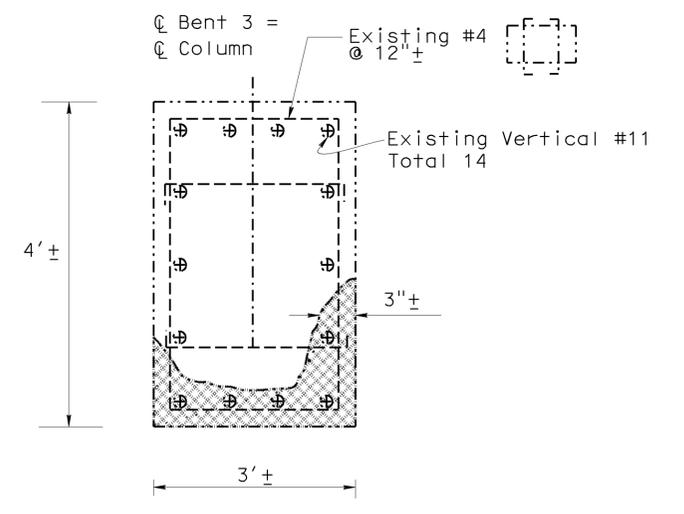
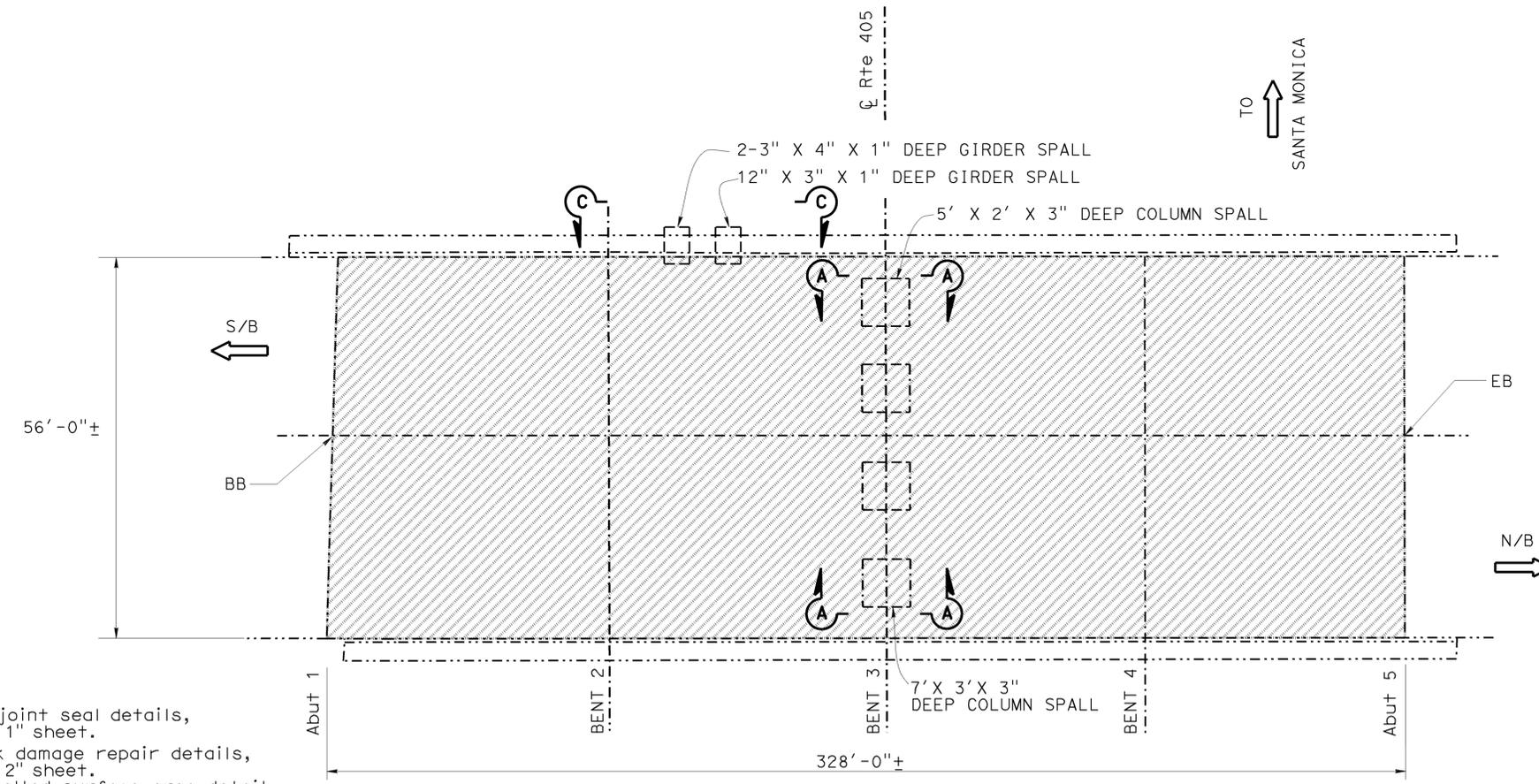
- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- [Hatched Box] INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. PRIOR TO BRIDGE DECK TREATMENT, REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE (PATCH).
- [Cross-hatched Box] INDICATES REPAIR SPALLED SURFACE AREA.
- MVC MINIMUM VERTICAL CLEARANCE.



VIEW C-C
NO SCALE



VIEW A-A
NO SCALE



SECTION B-B
NO SCALE

WALNUT AVENUE OC #53-1201
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	50 CF
REPAIR SPALLED SURFACE AREA	60 SQFT
REMOVE UNSOUND CONCRETE	50 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	18,500 SQFT
TREAT BRIDGE DECK	18,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	235 GAL

NOTES:

- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For joint spall repair and deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.
- For girder spall repair, see spalled surface area detail, on "MISCELLANEOUS DETAILS NO. 2" sheet.

NOTE:
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WALNUT AVENUE OC
Br No. 53-1201, RTE 405, PM 5.14
NO SCALE

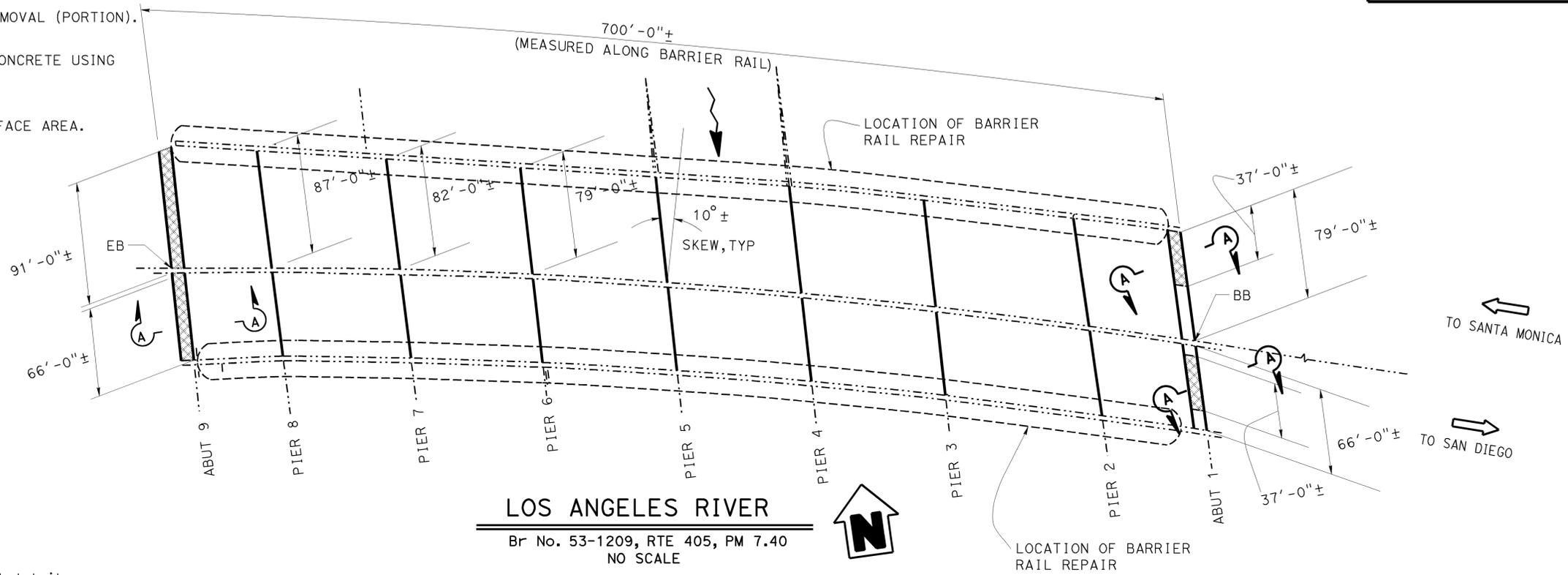


TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY G. JOO	CHECKED E. LI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 405 & 710 BRIDGES GENERAL PLAN NO. 3
	DETAILS	BY E. GOISHI	CHECKED G. JOO	LAYOUT				BY G. JOO	
	QUANTITIES	BY G. JOO	CHECKED E. LI	SPECIFICATIONS	BY KEVIN ELLINGSON	PLANS AND SPECS COMPARED KEVIN ELLINGSON		VARIES	

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 UNIT: 3489
 PROJECT NUMBER & PHASE: 0713000448-1
 CONTRACT NO.: 07-2W7504
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 08-11-14, 11-6-14
 SHEET 3 OF 12

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 WITH UNSOUND CONCRETE, AND RAPID SETTING CONCRETE (PATCH).
- ▨ INDICATES LIMITS OF BRIDGE REMOVAL (PORTION).
- ▤ INDICATES PLACE STRUCTURAL CONCRETE USING RAPID STRENGTH CONCRETE.
- ▩ INDICATES REPAIR SPALLED SURFACE AREA.



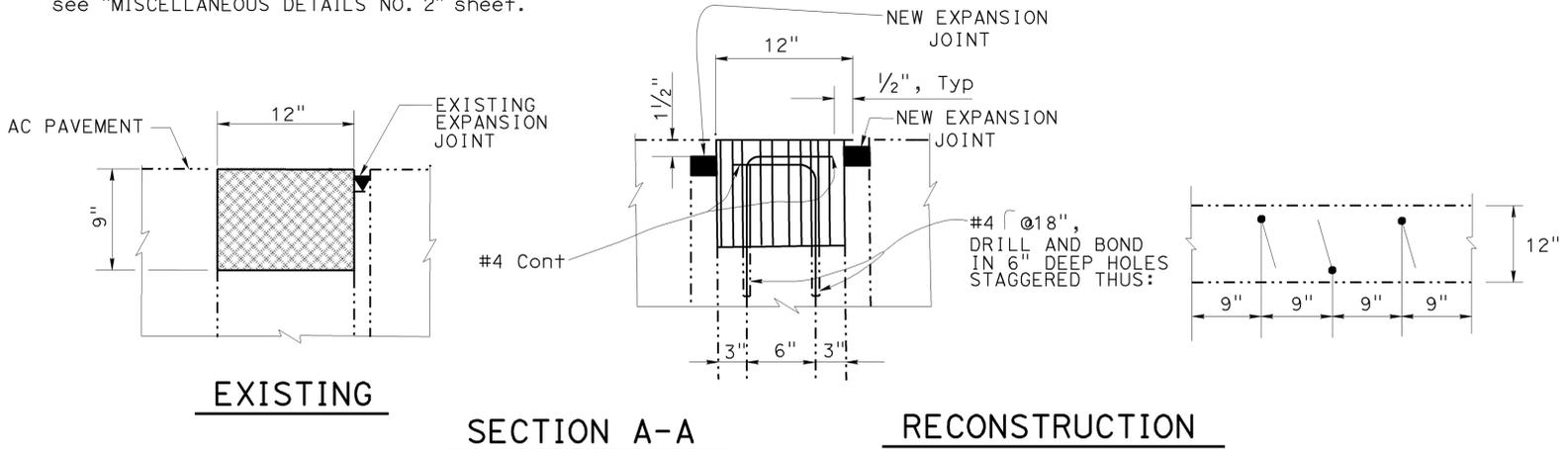
LOS ANGELES RIVER
 Br No. 53-1209, RTE 405, PM 7.40
 NO SCALE

NOTES:

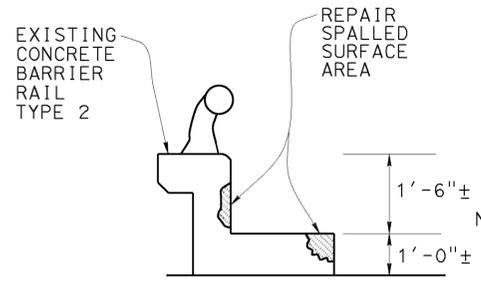
- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For joint spall repair and deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

BARRIER RAIL REPAIR			
BRIDGE NAME	BRIDGE NUMBER	BARRIER AREA (SQ FT)	APPROX AREA DAMAGED
LOS ANGELES RIVER	53-1209	3500	5%

Note: Barrier area is for the vertical face of both barrier.



SECTION A-A
 BACKWALL REPAIR DETAILS
 NO SCALE



BARRIER RAIL REPAIR
 NO SCALE

LOS ANGELES RIVER #53-1209 QUANTITIES

RAPID SETTING CONCRETE (PATCH)	15 CF
REPAIR SPALLED SURFACE AREA	175 SQFT
REMOVE UNSOUND CONCRETE	15 CF
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	7 CY
DRILL AND BOND DOWEL	155 LF
CLEAN EXPANSION JOINT	1,630 LF
JOINT SEAL (MR 1/2")	1,630 LF
BAR REINFORCING STEEL (BRIDGE)	105 LB

NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY G. Joo	CHECKED E. Li	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 405 & 710 BRIDGES GENERAL PLAN NO. 4	
	DETAILS	BY E. Goishi	CHECKED G. JOO	LAYOUT	BY G. Joo			CHECKED E. Li		POST MILE
	QUANTITIES	BY G. Joo	CHECKED E. Li	SPECIFICATIONS	BY Kevin Ellingson			PLANS AND SPECS COMPARED Kevin Ellingson		Varies

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 PROJECT NUMBER & PHASE: 0713000448-1 CONTRACT NO.: 07-2W7504
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 08-14-14, 11-6-14
 SHEET 04 OF 12
 FILE => 07-2w7504-a-gp04.dgn

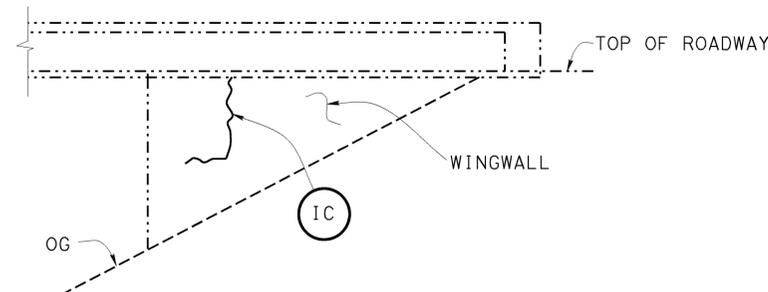
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	33	40

11/14/14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE
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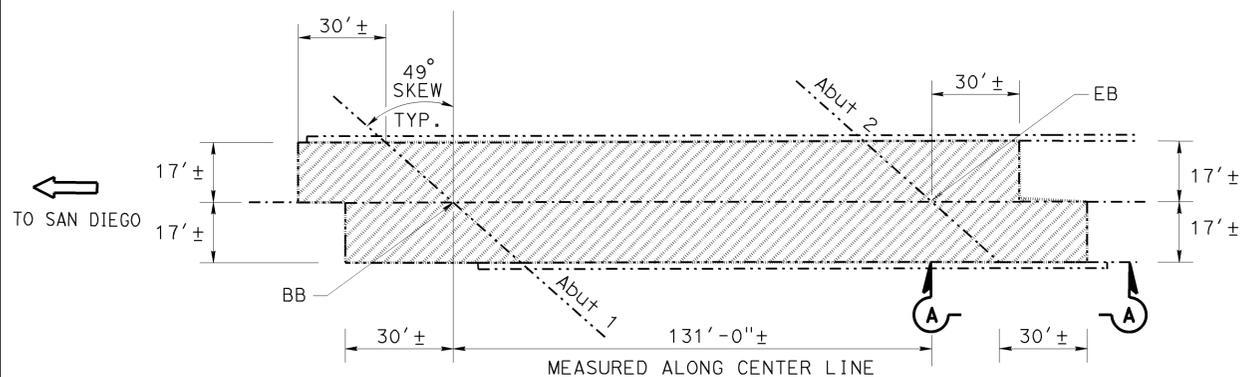
REGISTERED PROFESSIONAL ENGINEER
 GERALD D. JOO
 No. C65380
 Exp. 09/30/15
 CIVIL
 STATE OF CALIFORNIA

LEGEND:

- INDICATES EXISTING.
- ➔ INDICATES DIRECTION OF TRAFFIC.
- ▨ INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. PRIOR TO BRIDGE DECK TREATMENT, REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE (PATCH).
- ⊙ IC INDICATES LIMITS OF EPOXY CRACK INJECTION.



VIEW A-A
NO SCALE



SANTA FE-S405/ S405-S710
Br No. 53-2810K, RTE 405, PM 7.71
NO SCALE

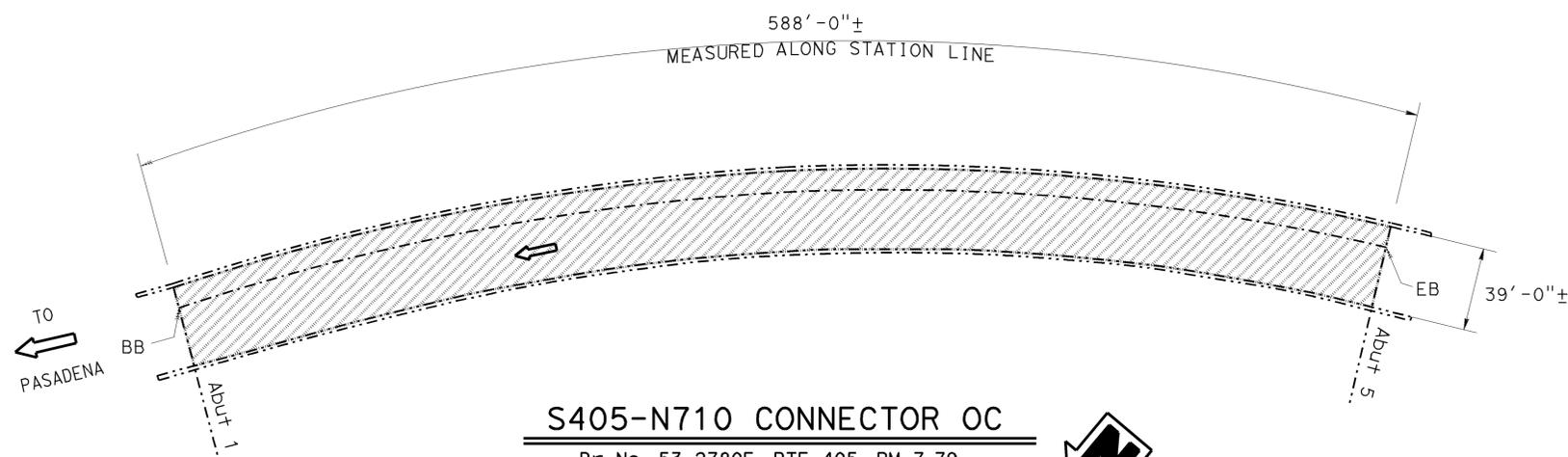
SANTA FE-S405/S405-S710 #53-2810K
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
INJECT CRACK (EPOXY)	31 LF
RAPID SETTING CONCRETE (PATCH)	18 CF
REMOVE UNSOUND CONCRETE	18 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,900 SQFT
TREAT BRIDGE DECK	6,900 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	90 GAL

NOTES:

- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For joint spall repair and deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

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S405-N710 CONNECTOR OC
Br No. 53-2780F, RTE 405, PM 7.79
NO SCALE

S405-N710 CONNECTOR OC #53-2780F
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	60 CF
REMOVE UNSOUND CONCRETE	60 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	23,000 SQFT
TREAT BRIDGE DECK	23,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	290 GAL

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY G. Joo	CHECKED E. Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY E. Goishi	CHECKED G. Joo	LAYOUT	BY G. Joo
QUANTITIES	BY G. Joo	CHECKED E. Li	SPECIFICATIONS	BY Kevin Ellingson
				PLANS AND SPECS COMPARED Kevin Ellingson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

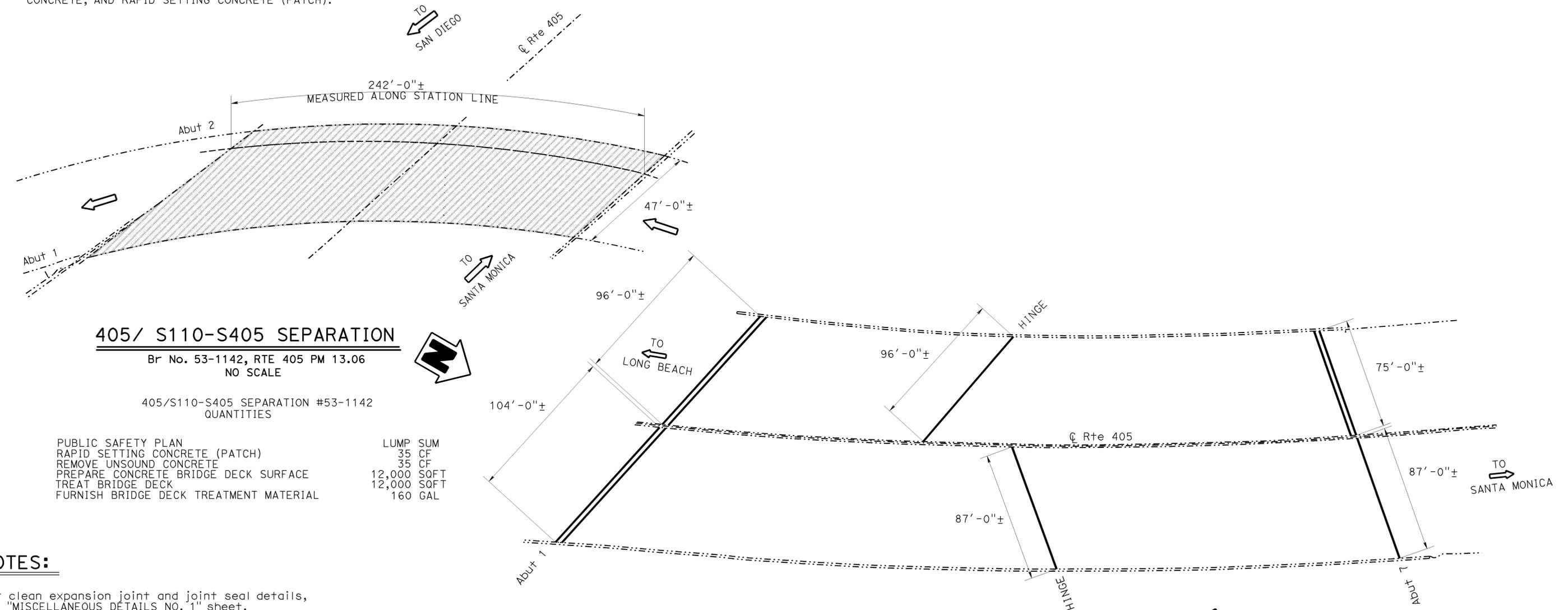
ROUTE 405 & 710 BRIDGES
GENERAL PLAN NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	34	40

 11/14/14
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-  INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. PRIOR TO BRIDGE DECK TREATMENT, REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE (PATCH).
- INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL. PRIOR TO PLACEMENT OF NEW JOINT SEAL REPAIR JOINT WITH UNSOUND CONCRETE, AND RAPID SETTING CONCRETE (PATCH).



405/ S110-S405 SEPARATION
 Br No. 53-1142, RTE 405 PM 13.06
 NO SCALE

405/S110-S405 SEPARATION #53-1142
 QUANTITIES

PUBLIC SAFETY PLAN
 RAPID SETTING CONCRETE (PATCH) 35 CF
 REMOVE UNSOUND CONCRETE 35 CF
 PREPARE CONCRETE BRIDGE DECK SURFACE 12,000 SQFT
 TREAT BRIDGE DECK 12,000 SQFT
 FURNISH BRIDGE DECK TREATMENT MATERIAL 160 GAL

LUMP SUM
 35 CF
 35 CF
 12,000 SQFT
 12,000 SQFT
 160 GAL

VERMONT 190th STREET UC
 Br No. 53-1144, RTE 405, PM 13.28
 NO SCALE

VERMONT 190TH STREET UC #53-1144
 QUANTITIES

RAPID SETTING CONCRETE (PATCH) 6 CF
 REMOVE UNSOUND CONCRETE 6 CF
 CLEAN EXPANSION JOINT 820 LF
 JOINT SEAL (MR 1/2) 820 LF

NOTES:

- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For joint spall repair and deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

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TONY D. BRAKE
 DESIGN ENGINEER

DESIGN	BY G. Joo	CHECKED E. Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY E. Goishi	CHECKED G. Joo	LAYOUT	BY G. Joo
QUANTITIES	BY G. Joo	CHECKED E. Li	SPECIFICATIONS	BY Kevin Ellingson
				PLANS AND SPECS COMPARED Kevin Ellingson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various	ROUTE 405 & 710 BRIDGES
POST MILE	Varies	
		GENERAL PLAN NO. 6

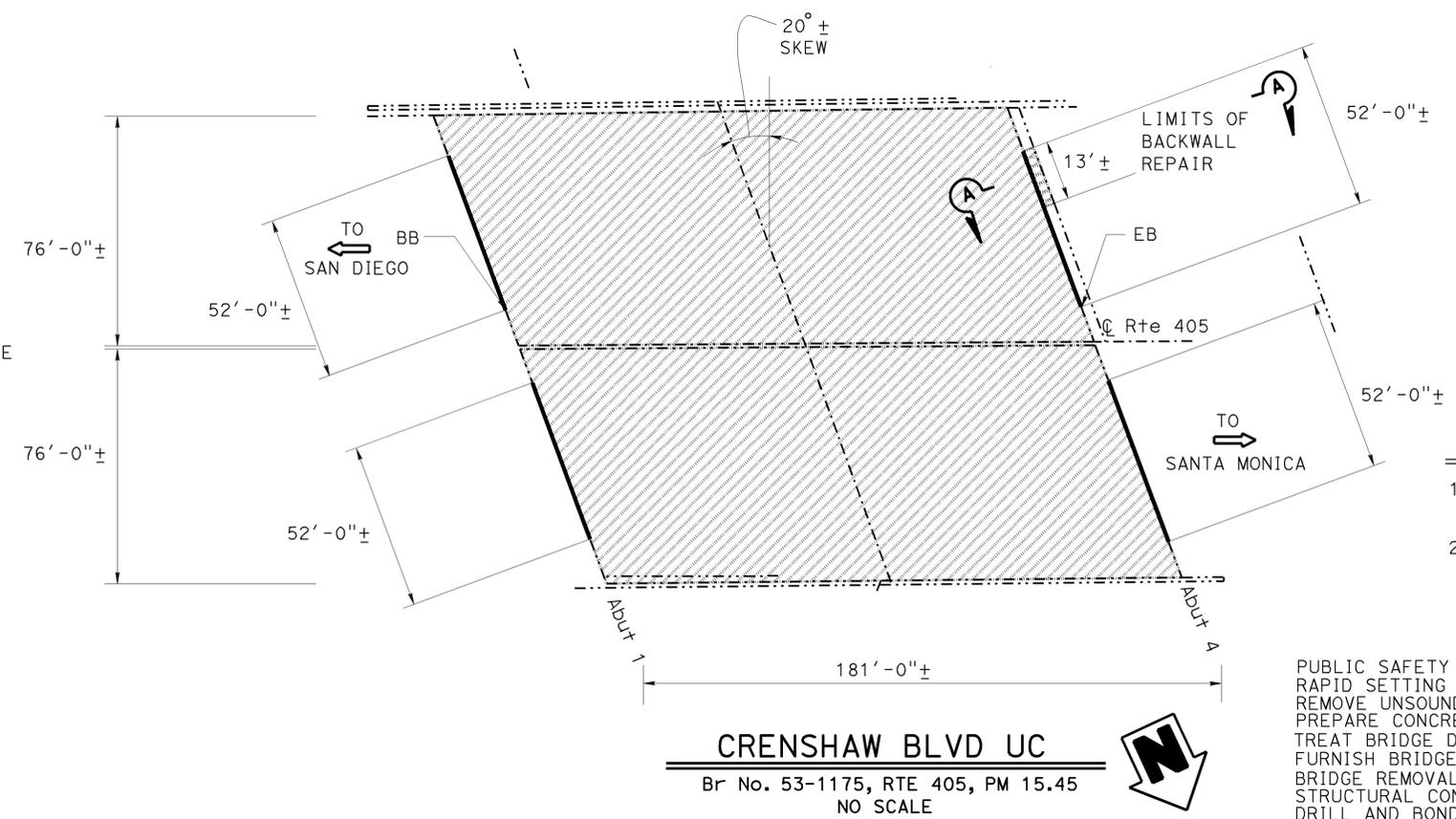
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 GERALD D. JOO

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- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL REPAIR JOINT WITH UNSOUND CONCRETE, AND RAPID SETTING CONCRETE (PATCH).
- ▨ INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE, PRIOR TO BRIDGE DECK TREATMENT, REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE (PATCH).
- ▩ INDICATES LIMITS OF BRIDGE REMOVAL (PORTION).
- ▧ INDICATES PLACE STRUCTURAL CONCRETE USING RAPID STRENGTH CONCRETE.

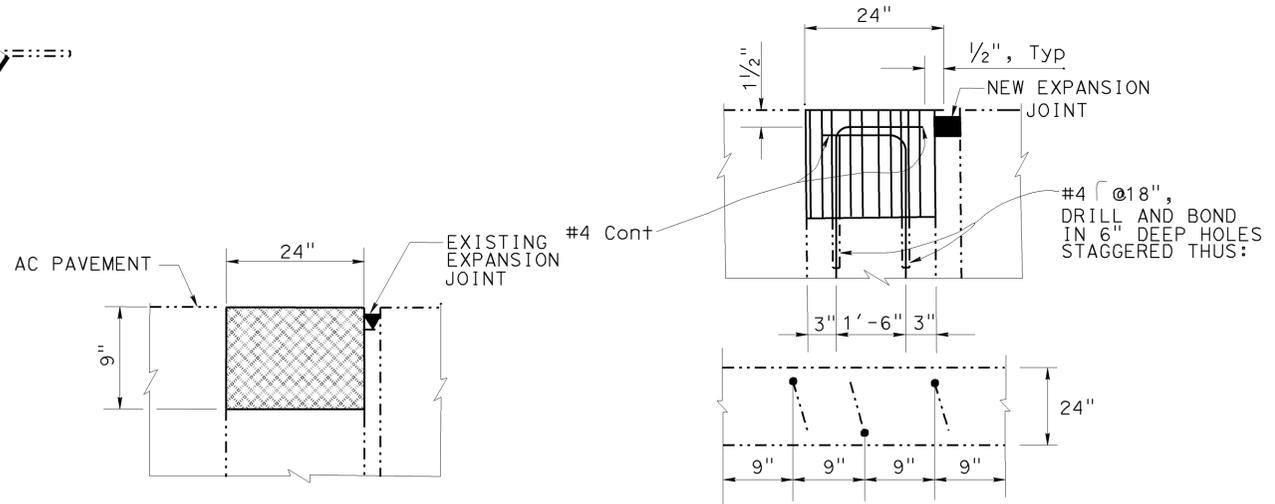
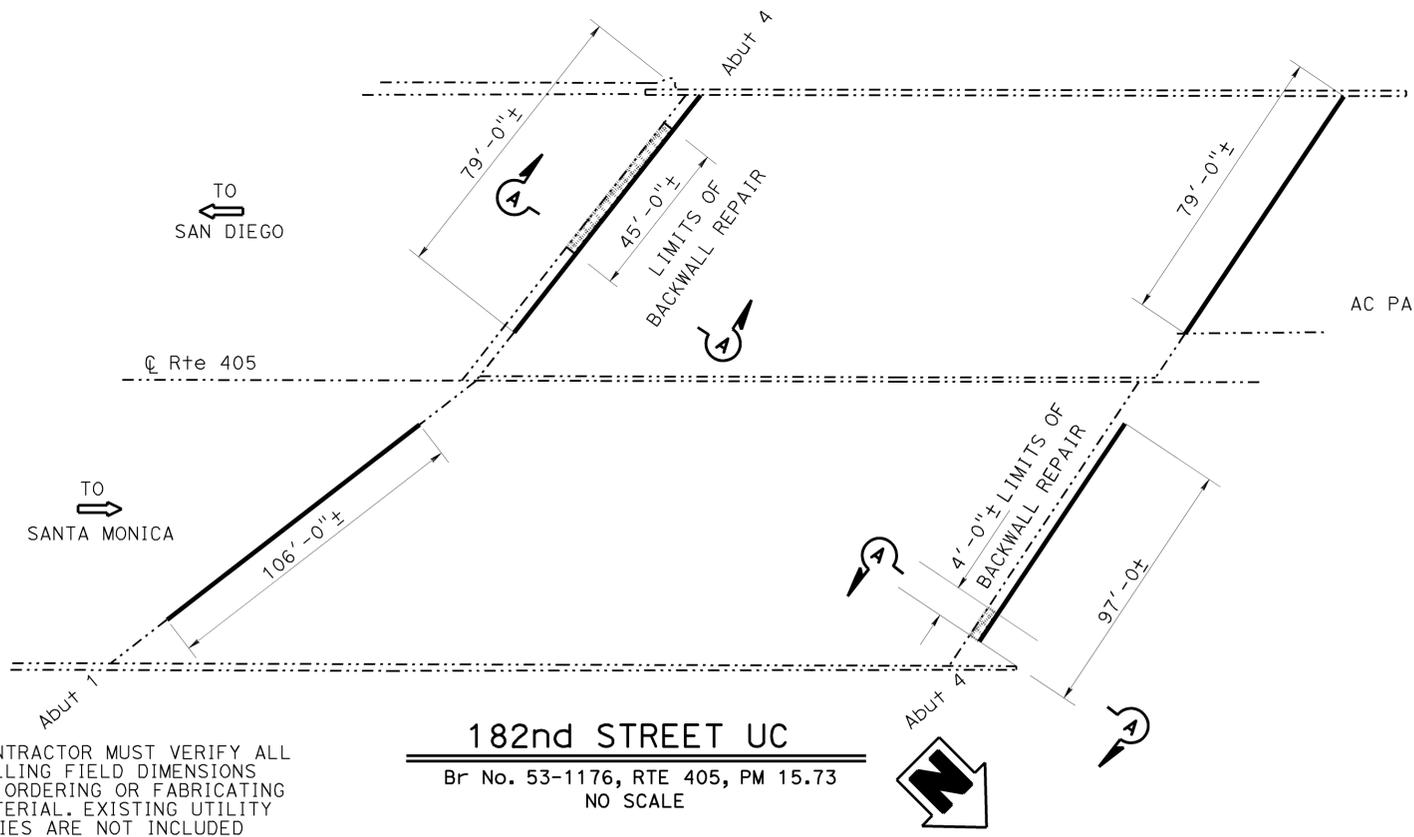


NOTES:

- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For joint spall repair and deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

CRENSHAW BLVD UC #53-1175
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	73 CF
REMOVE UNSOUND CONCRETE	73 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	28,000 SQFT
TREAT BRIDGE DECK	28,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	350 GAL
BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	1 CY
DRILL AND BOND DOWEL	9 LF
CLEAN EXPANSION JOINT	208 LF
JOINT SEAL (MR 1/2")	208 LF
BAR REINFORCING STEEL (BRIDGE)	7 LB



SECTION A-A
BACKWALL REPAIRS DETAILS
NO SCALE

182ND STREET UC #53-1176
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	3 CF
REMOVE UNSOUND CONCRETE	3 CF
BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	3 CY
DRILL AND BOND DOWEL	35 LF
CLEAN EXPANSION JOINT	361 LF
JOINT SEAL (MR 1/2")	361 LF
BAR REINFORCING STEEL (BRIDGE)	25 LB

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY G. Joo	CHECKED E. Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 405 & 710 BRIDGES GENERAL PLAN NO. 7	
	DETAILS	BY E. Goishi	CHECKED G. Joo	LAYOUT	BY G. Joo		CHECKED E. Li		Various
	QUANTITIES	BY G. Joo	CHECKED E. Li	SPECIFICATIONS	BY Kevin Ellingson		PLANS AND SPECS COMPARED Kevin Ellingson		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: 0713000448-1 CONTRACT NO.: 07-2W7504 DISREGARD PRINTS BEARING EARLIER REVISION DATES 08-14 11-6-14 SHEET 7 OF 12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	36	40

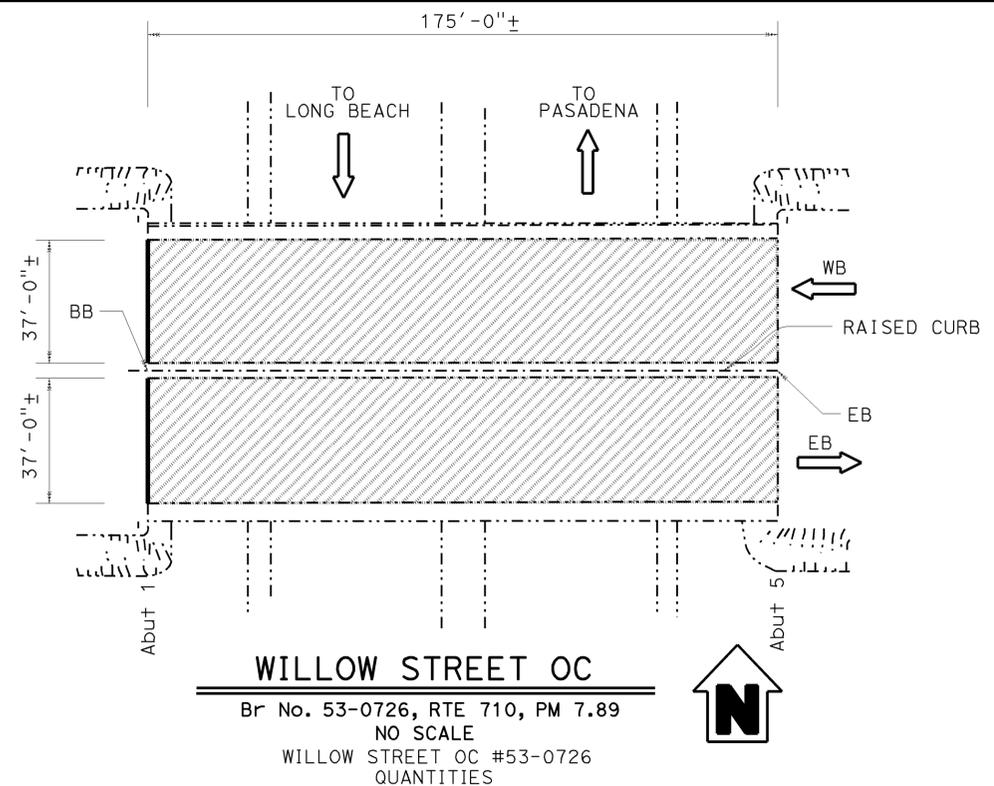
11/14/14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

GERALD D. JOO
 No. C65380
 Exp. 09/30/15
 CIVIL
 STATE OF CALIFORNIA

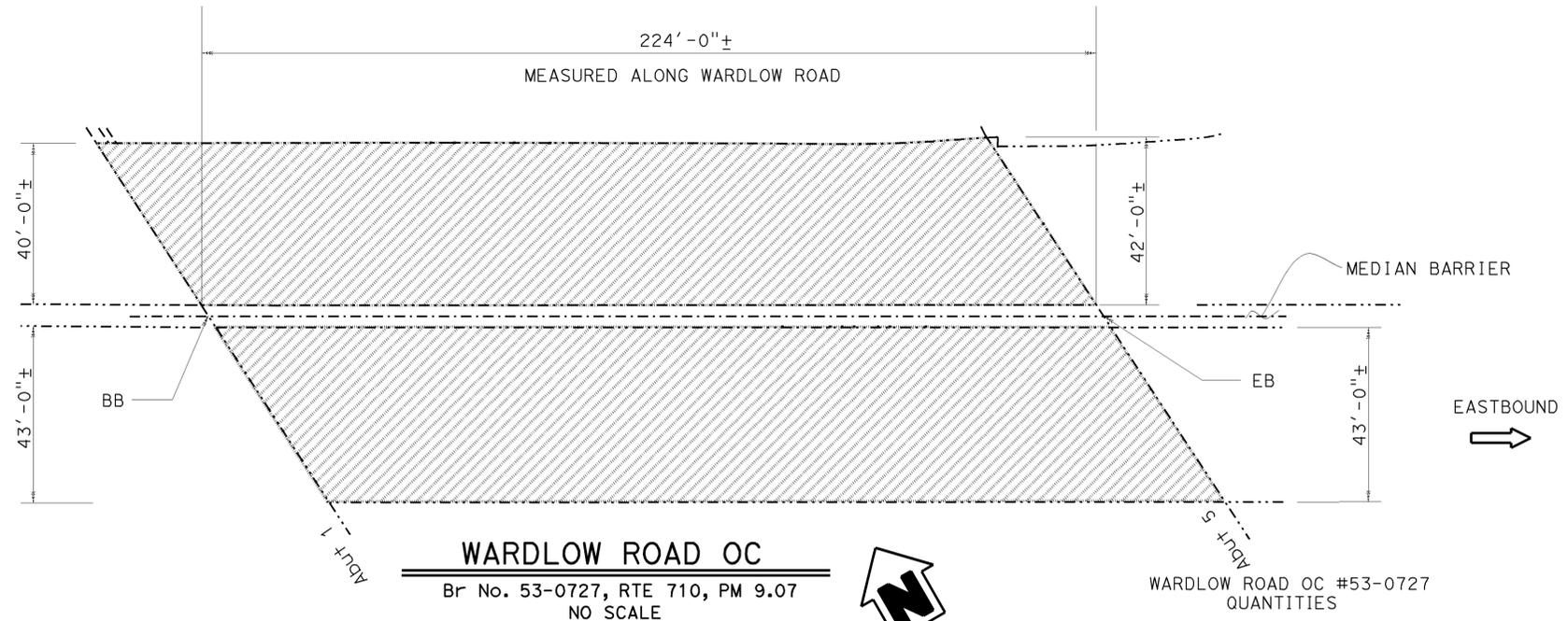
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- [Hatched Box] INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. PRIOR TO BRIDGE DECK TREATMENT, REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE (PATCH).
- INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL. PRIOR TO PLACEMENT OF NEW JOINT SEAL REPAIR JOINT WITH UNSOUND CONCRETE, AND RAPID SETTING CONCRETE (PATCH).



PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	33 CF
REMOVE UNSOUND CONCRETE	33 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	13,000 SQFT
TREAT BRIDGE DECK	13,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	165 GAL
CLEAN EXPANSION JOINT	74 LF
JOINT SEAL (MR 1/2")	74 LF



PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	50 CF
REMOVE UNSOUND CONCRETE	50 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	19,000 SQFT
TREAT BRIDGE DECK	19,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	240 GAL

NOTES:

- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For joint spall repair and deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY G. Joo	CHECKED E. Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 405 & 710 BRIDGES GENERAL PLAN NO. 8	
	DETAILS	BY E. Goishi	CHECKED G. Joo	LAYOUT	BY G. Joo		CHECKED E. Li		VARIOUS
	QUANTITIES	BY G. Joo	CHECKED E. Li	SPECIFICATIONS	BY Kevin Ellingson	PLANS AND SPECS COMPARED Kevin Ellingson	POST MILE		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)							UNIT: 3489 PROJECT NUMBER & PHASE: 0713000448-1	CONTRACT NO.: 07-2W7504	DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS							0 1 2 3	REVISION DATES 08-14-14 11-6-14	SHEET 08 OF 12

FILE => 07-2w7504-a-gp08.dgn

USERNAME => \$123048 DATE PLOTTED => 29-JAN-2015 TIME PLOTTED => 13:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	37	40

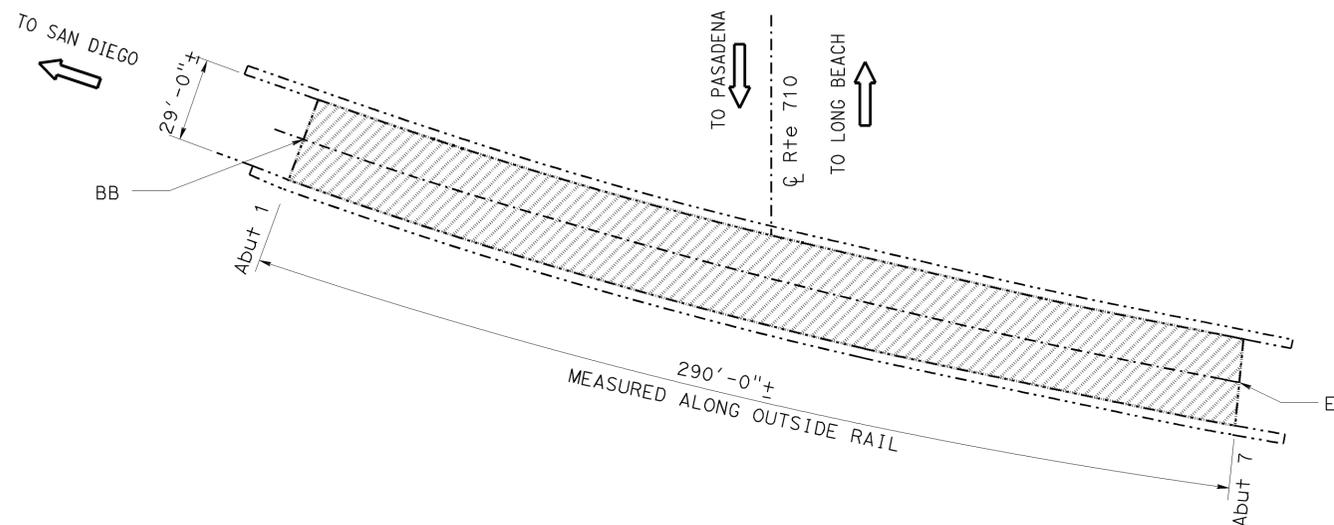
11/14/14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 No. C65380
 Exp. 09/30/15
 CIVIL
 STATE OF CALIFORNIA

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LEGEND:

- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- ▨ INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. PRIOR TO BRIDGE DECK TREATMENT, REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE (PATCH).



S710-S405 CONNECTOR OC

Br No. 53-1284F, RTE 710, PM 9.38
 NO SCALE



S710-S405 CONNECTOR OC #53-1284F
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	22 CF
REMOVE UNSOUND CONCRETE	22 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	8,500 SQFT
TREAT BRIDGE DECK	8,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	110 GAL

NOTES:

NOTE:
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- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For joint spall repair and deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

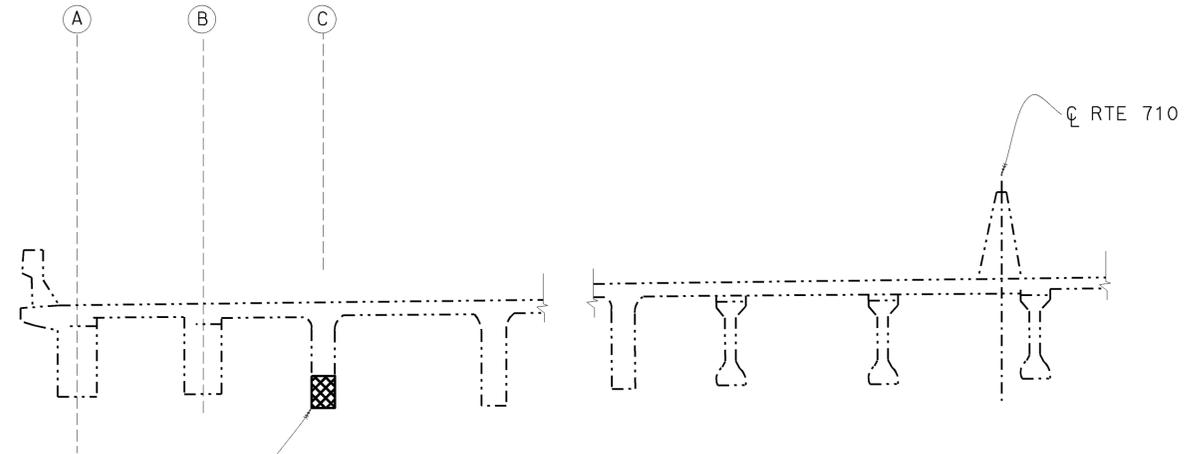
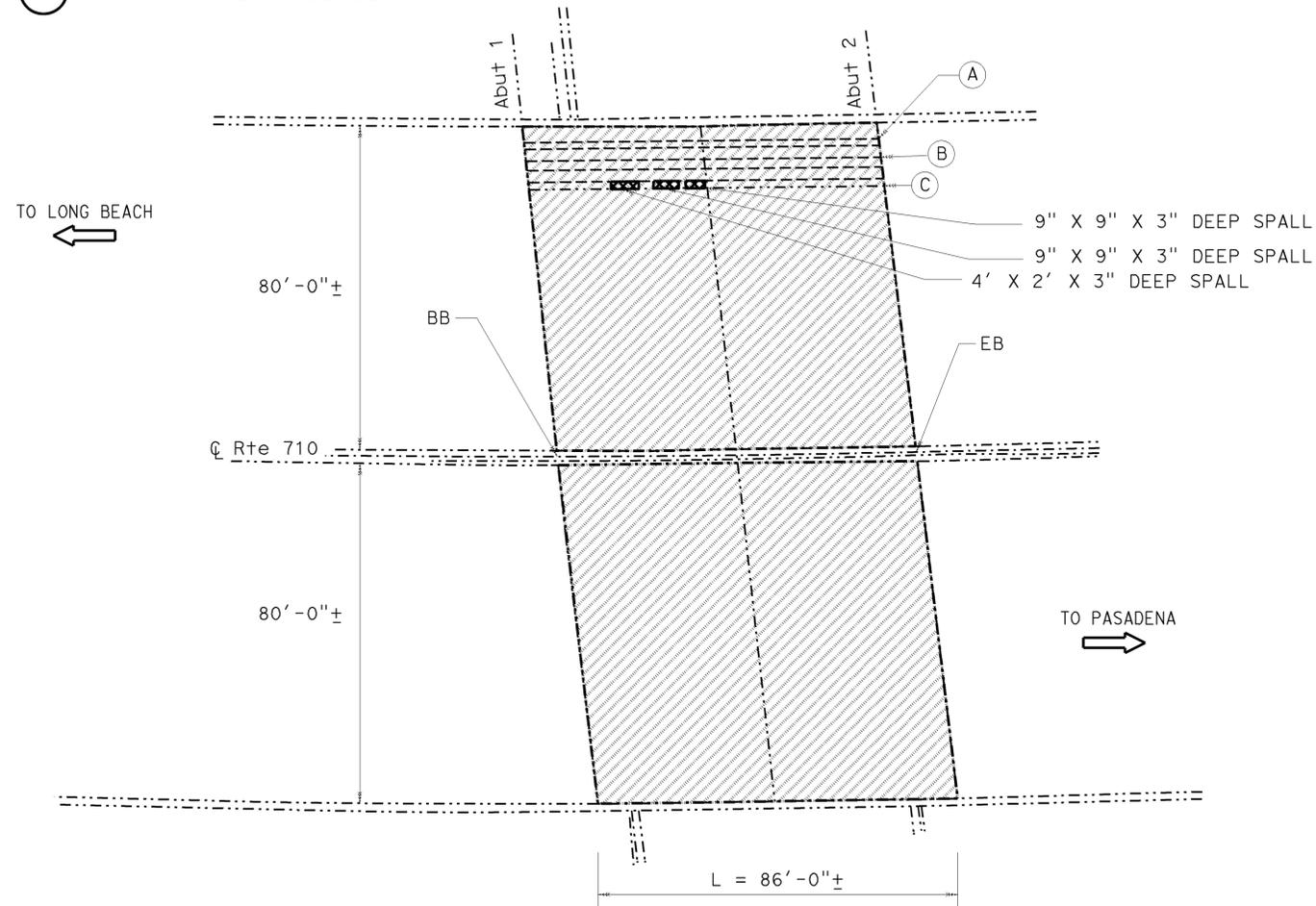
TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY G. Joo	CHECKED E. Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 405 & 710 BRIDGES GENERAL PLAN NO. 9						
	DETAILS	BY E. Goishi	CHECKED G. Joo	LAYOUT	BY G. Joo		CHECKED E. Li		Various					
	QUANTITIES	BY G. Joo	CHECKED E. Li	SPECIFICATIONS	BY Kevin Ellingson		PLANS AND SPECS COMPARED		Kevin Ellingson	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: 0713000448-1	CONTRACT NO.: 07-2W7504	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 09	OF 12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	38	40

11/14/14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE
 No. C65380
 Exp. 09/30/15
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- [Hatched Box] INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. PRIOR TO BRIDGE DECK TREATMENT, REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE (PATCH).
- [Cross-hatched Box] INDICATES REPAIR SPALLED SURFACE AREA.
- (X) INDICATES GIRDER DESIGNATION.



REPAIR SPALLED SURFACE AREA.
SEE SPALLED SURFACE AREA DETAIL ON
"MISCELLANEOUS DETAILS SHEET NO. 2" SHEET.

TYPICAL SECTION (PARTIAL)

NOTES:

- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For joint spall repair and deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

DEL AMO BLVD UC

Br No. 53-0818, RTE 710, PM 10.82
NO SCALE

DEL AMO BLVD UC #53-0818
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	35 CF
REPAIR SPALLED SURFACE AREA	10 SQFT
REMOVE UNSOUND CONCRETE	35 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	14,000 SQFT
TREAT BRIDGE DECK	14,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	175 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.

DESIGN	BY G. Joo	CHECKED E. Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY E. Goishi	CHECKED G. Joo	LAYOUT	BY G. Joo
QUANTITIES	BY G. Joo	CHECKED E. Li	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	Various
		Varies

ROUTE 405 & 710 BRIDGES	
GENERAL PLAN NO. 10	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	39	40

11/14/14
REGISTERED CIVIL ENGINEER DATE

2-23-15
PLANS APPROVAL DATE

GERALD D. JOO
No. C65380
Exp. 09/30/15
CIVIL
STATE OF CALIFORNIA

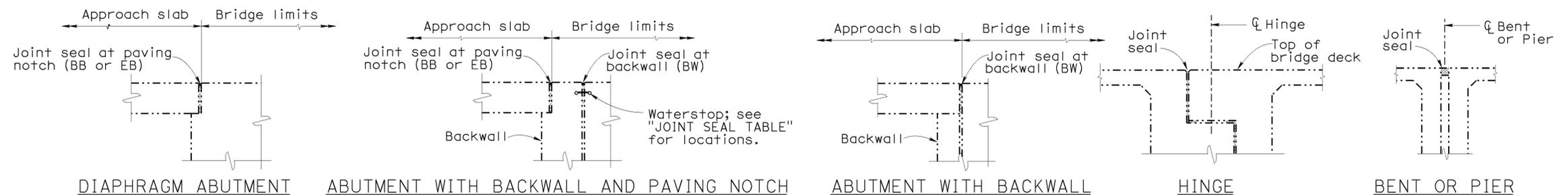
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JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROX JOINT LENGTH (LF)	EXISTING WATERSTOP	LENGTH TO CLEAN EXP JOINT (LF)	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX DEPTH OF JOINT SPALLS (INCHES)	APPROX WIDTH OF JOINT SPALLS (INCHES)	APPROX LENGTH OF JOINT SPALLS (LF)	
WOODRUFF AVE UC	53-1191	ABUT 1	PN	1/2	157	NO	157	12	3	6	5
		ABUT 4	PN	1/2	157	NO	157	12	3	6	5
CLARK AVE UC	53-1195	ABUT 1	PN	1/2	152	NO	152	12	3	6	5
		ABUT 5	PN	1/2	152	NO	152	12	3	6	5
REDONDO AVE UC	53-1197	ABUT 1	PN	1/2	184	NO	184	12	3	6	5
		ABUT 4	PN	1/2	184	NO	184	12	3	6	5
CHERRY AVE OC	53-1200	ABUT 1	PN	1/2	5	NO	5	12	3	6	5
		ABUT 5	PN	1/2	5	NO	5	12	3	6	5
LOS ANGELES RIVER	53-1209	ABUT 1	PN	1/2	145	NO	145	12	3	6	10
			BW	1/2	145	YES	145	6	3	6	10
		PIER 2	DJ	1/2	145	NO	145	12	3	6	10
		PIER 3	DJ	1/2	145	NO	145	12	3	6	10
		PIER 4	DJ	1/2	145	NO	145	12	3	6	10
		PIER 5	DJ	1/2	145	NO	145	12	3	6	10
		PIER 6	DJ	1/2	145	NO	145	12	3	6	10
		PIER 7	DJ	1/2	148	NO	148	12	3	6	10
		PIER 8	DJ	1/2	153	NO	153	12	3	6	10
		ABUT 9	PN	1/2	157	NO	157	12	3	6	10
			BW	1/2	157	YES	157	6	3	6	10
VERMONT-190TH STREET UC	53-1144	ABUT 1	PN	1/2	200	NO	200	12	3	6	10
			BW	1/2	200	NO	200	12	3	6	10
		HINGE	DJ	1/2	183	NO	183	12	3	6	10
		ABUT 7	PN	1/2	75	NO	75	12	3	6	10
			BW	1/2	162	NO	162	12	3	6	5
CRENSHAW BLVD UC	53-1175	ABUT 1	BW	1/2	104	NO	104	12	3	6	5
		ABUT 4	BW	1/2	104	NO	104	12	3	6	5
182ND STREET UC	53-1176	ABUT 1	BW	1/2	185	NO	203	12	3	6	10
		ABUT 4	BW	1/2	176	NO	194	12	3	6	10
WILLOW STREET OC	53-0726	ABUT 1	PN	1/2	74	NO	74	12	3	6	5

Note: PN = Paving Notch
BW = Backwall
DJ = Deck Joint

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



JOINT SEAL LOCATION

NO SCALE

NOTES:

The following notes apply to JOINT SEAL TYPE A:

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

For details not shown see RSP B6-21 sheet.

The following notes apply to JOINT SEAL TYPE B:

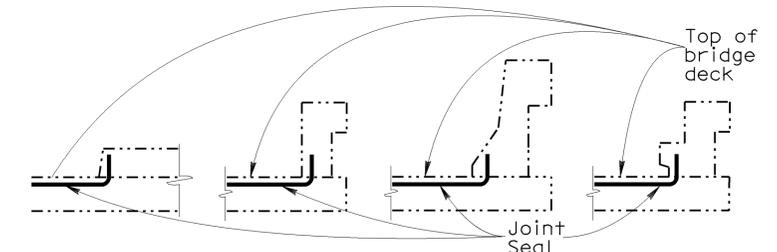
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.

3) W1 shall be the smaller of the values determined as follows:
A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.

4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

For details not shown see B6-21 sheet.



BARRIER RAIL JOINT SEAL AT LOW SIDE OF DECK

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

DESIGN	BY G. Joo	CHECKED E. Li
DETAILS	BY E. Goishi	CHECKED G. Joo
QUANTITIES	BY G. Joo	CHECKED E. Li

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTE 405 & 710 BRIDGES
MISCELLANEOUS DETAILS NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405,710	1.6/15.8 7.8/10.9	40	40

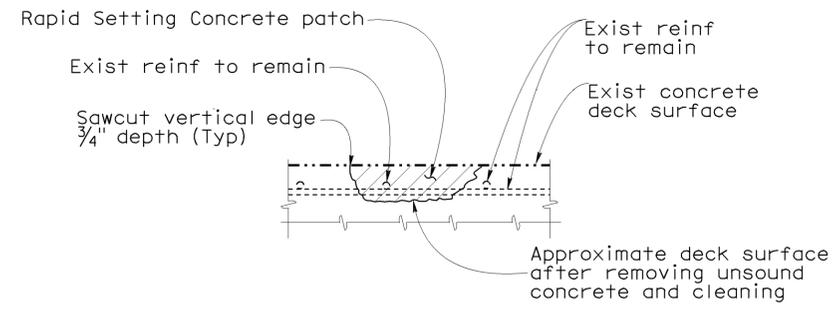
11/14/14
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

REG. NO. C65380
 Exp. 09/30/15
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 STATE OF CALIFORNIA

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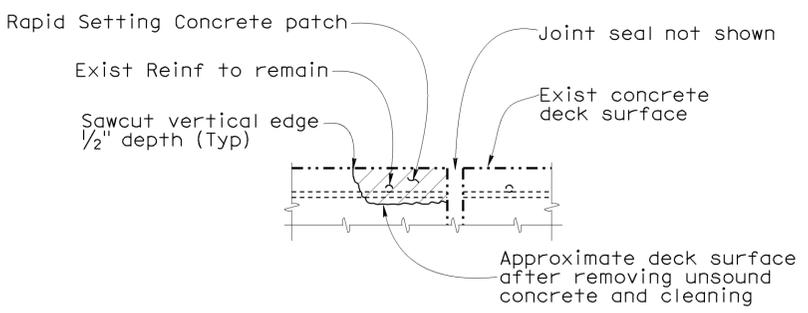
DECK REPAIR NOTES:

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



DECK DAMAGE REPAIR DETAIL

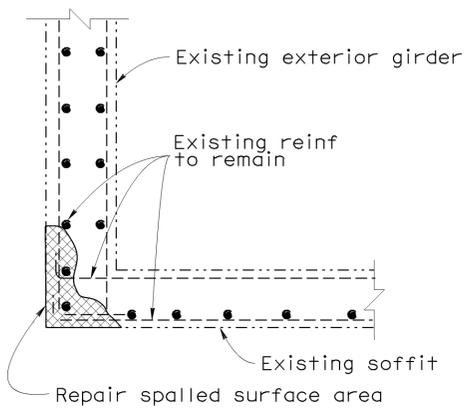
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



JOINT SPALL REPAIR DETAIL

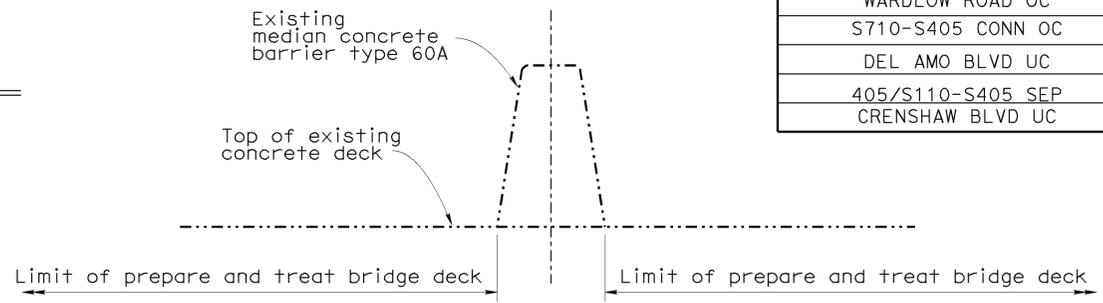
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCH)
CHEERY AVE OC	53-1200	1	3
WALNUT AVE OC	53-1201	1	3
SANTA FE S405/S405-S710	53-2810K	1	3
S405-N710 CONN. OC	53-2780F	1	3
WILLOW STREET OC	53-0726	1	3
WARDLOW ROAD OC	53-0727	1	3
S710-S405 CONN OC	53-1284F	1	3
DEL AMO BLVD UC	53-0818	1	3
405/S110-S405 SEP	53-1142	1	3
CRENSHAW BLVD UC	53-1175	1	3

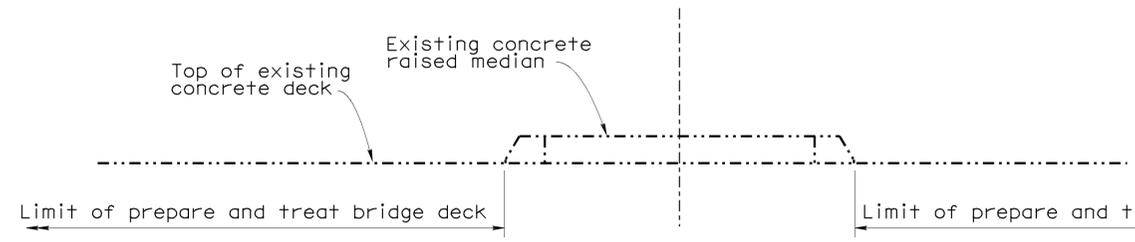


SPALLED SURFACE AREA DETAIL

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



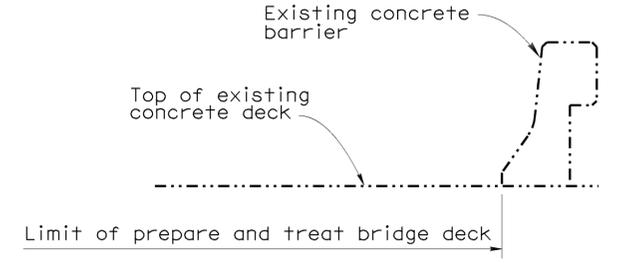
MEDIAN BARRIER



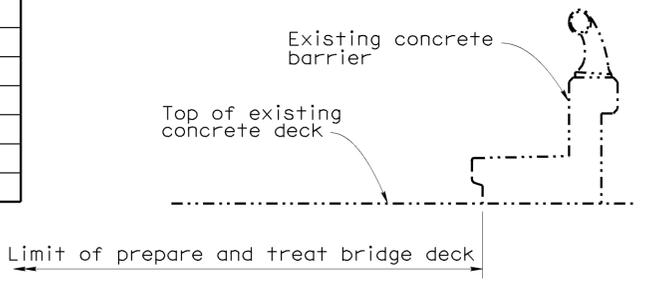
RAISED MEDIAN

TYPICAL LIMITS OF DECK WORK

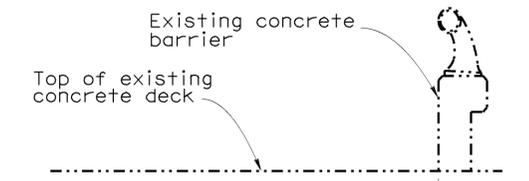
NO SCALE



EOD BARRIER



SIDEWALK BARRIER TYPE 2



SIDEWALK BARRIER TYPE 1

NOTE:
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DESIGN BY G. Joo CHECKED E. Li	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 405 & 710 BRIDGES	
			Various		
			POST MILE		
DETAILS BY E. Goishi CHECKED G. Joo	UNIT: 3489 PROJECT NUMBER & PHASE: 0713000448-1	CONTRACT NO.: 07-2W7504	Varies	MISCELLANEOUS DETAILS NO. 2	
QUANTITIES BY G. Joo CHECKED E. Li			REVISION DATES		SHEET OF
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	3-2-10 8-24-10 11-6-14	12 12

FILE => 07-2w7504-c-miscdt1s02.dgn