Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	1	38

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	LOCATIONS OF CONSTRUCTION
3-6	CONSTRUCTION AREA SIGNS
7-13	TRAFFIC HANDLING DETAILS
14-16	PAVEMENT DELINEATION QUANTITIES
17-25	REVISED STANDARD PLANS
	STRUCTURE PLANS
26-38	ROUTE 5, 14, 138, 210 BRIDGES

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

NOTE:

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

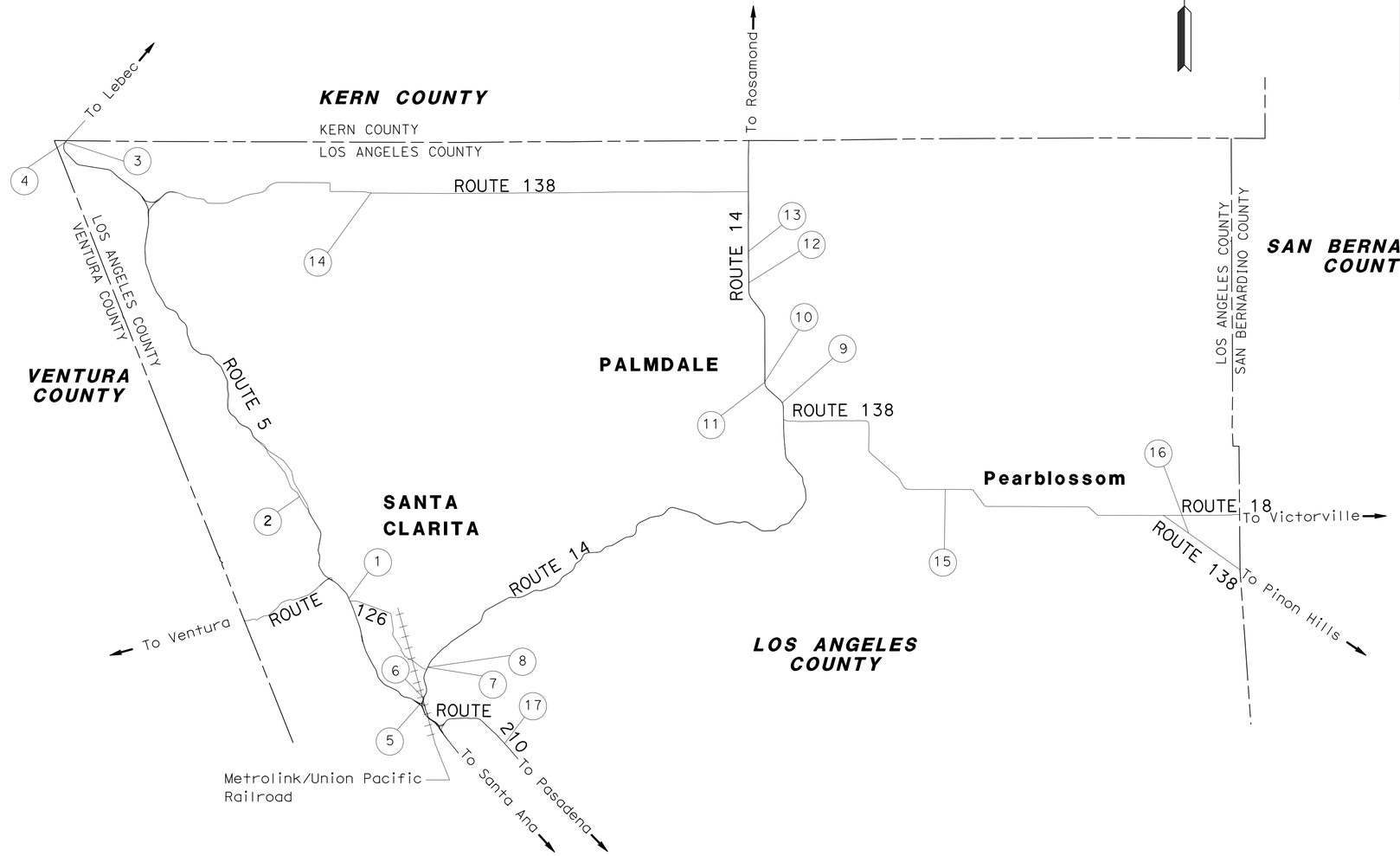
STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN LOS ANGELES COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



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

PROJECT MANAGER: CHRISTIAN SAM

DESIGN MANAGER: HAMID SAADATNEJADI

2-10-16

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — KEVIN KWAN — No. C68219 — Exp. 9-30-17 — CIVIL — STATE OF CALIFORNIA

February 29, 2016

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.	07-3W0804
PROJECT ID	0715000041

LAST REVISION 02-29-16

DATE PLOTTED => 04-MAR-2016
TIME PLOTTED => 12:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	2	38

2-10-16
REGISTERED CIVIL ENGINEER DATE

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KEVIN KWAN
No. C68219
Exp. 9-30-17
CIVIL
STATE OF CALIFORNIA

LOCATIONS OF CONSTRUCTION

Loc No. (X)	ROUTE	PM	BRIDGE No.	BRIDGE NAME
1	5	R53.70	53-2925	SANTA CLARA RIVER BRIDGE
2		R60.52	53-0065R	PALOMAS WASH
3		R88.56	53-1776R	FRAZIER MOUNTAIN UC
4		R88.56	53-1776L	FRAZIER MOUNTAIN UC
5	14	R24.92	53-2796F	S14-N5 CONNECTOR OC
6		R25.13	53-1936	SIERRA HIGHWAY UC
7		R27.04	53-2070	NEWHALL AVENUE UC
8		R27.04	53-2070S	NEWHALL AVENUE UC
9		R60.70	53-2178L	TECHNOLOGY DRIVE UC
10		R62.12	53-2379L	AVENUE "O-8" UC
11		R62.12	53-2379R	AVENUE "O-8" UC
12		R68.96	53-2386L	AVENUE "I" UC
13		R69.99	53-1862	AVENUE "H" OC
14	138	14.6	53-2047	CALIFORNIA AQUEDUCT
15		56.06	53-2098	CALIFORNIA AQUEDUCT
16		70.28	53-2174	CALIFORNIA AQUEDUCT
17	210	R4.94	53-1898R	MACLAY STREET UC

REVISED BY | DATE REVISED

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

FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LOCATIONS OF CONSTRUCTION

LC-1

LAST REVISION 02-29-16
DATE PLOTTED => 04-MAR-2016
TIME PLOTTED => 12:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	3	38

REGISTERED CIVIL ENGINEER — DATE 2-10-16

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KEVIN KWAN — No. C68219 — Exp. 9-30-17 — CIVIL — STATE OF CALIFORNIA

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

NOTES:

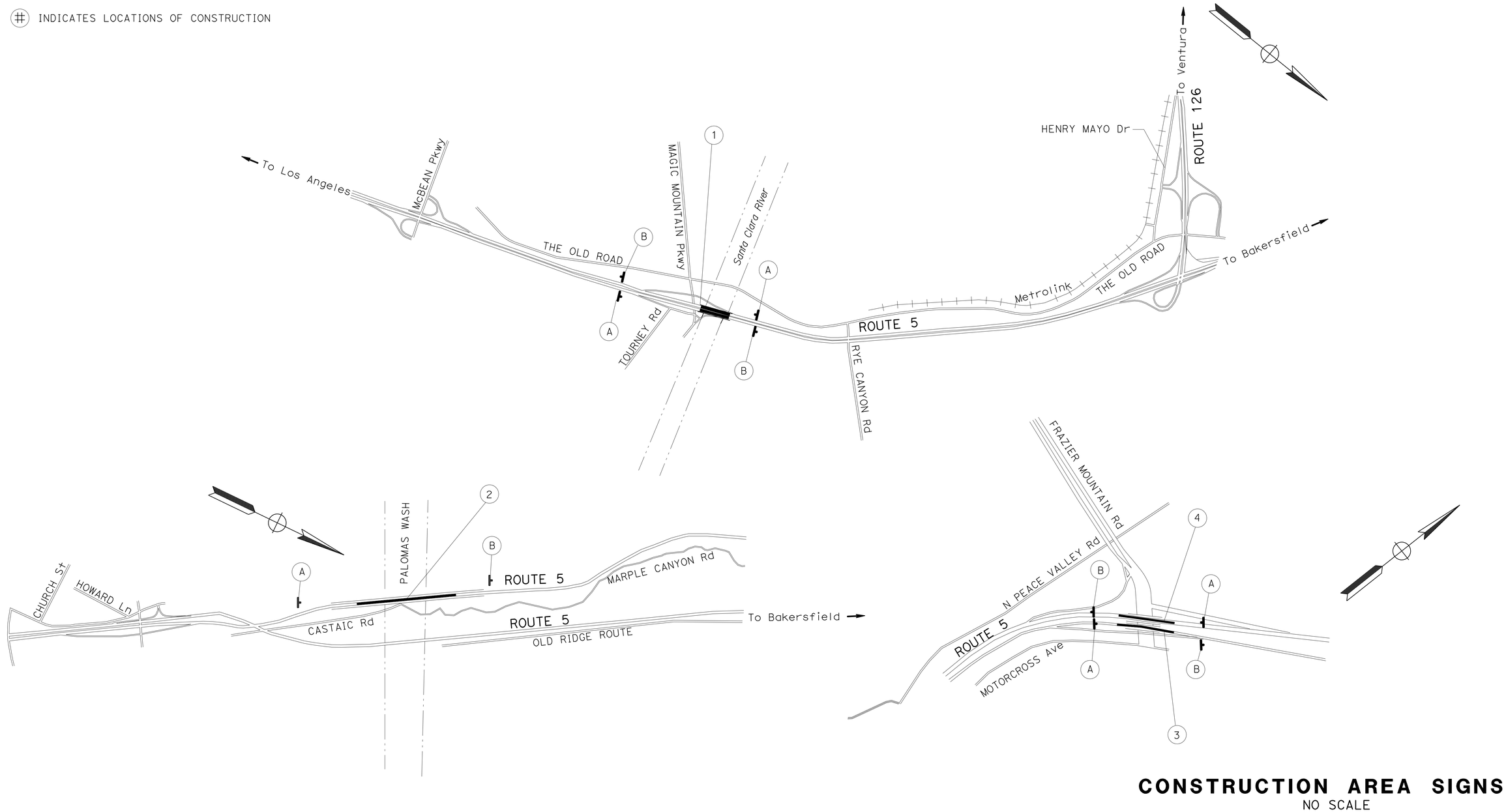
1. EXACT LOCATION AND POSITION OF SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE SHEETS CS-2 THROUGH CS-4.

LEGEND:

(#) INDICATES LOCATIONS OF CONSTRUCTION

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (#)	SIGN CODE FEDERAL	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	22
B	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	23



CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI
CALCULATED-DESIGNED BY: DINESH BHAVSAR
CHECKED BY: KEVIN KWAN
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 04-MAR-2016
02-29-16 | TIME PLOTTED => 12:45

BORDER LAST REVISED 7/2/2010

USERNAME => s119140
DGN FILE => 73w0801a001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1964

PROJECT NUMBER & PHASE 07150000411

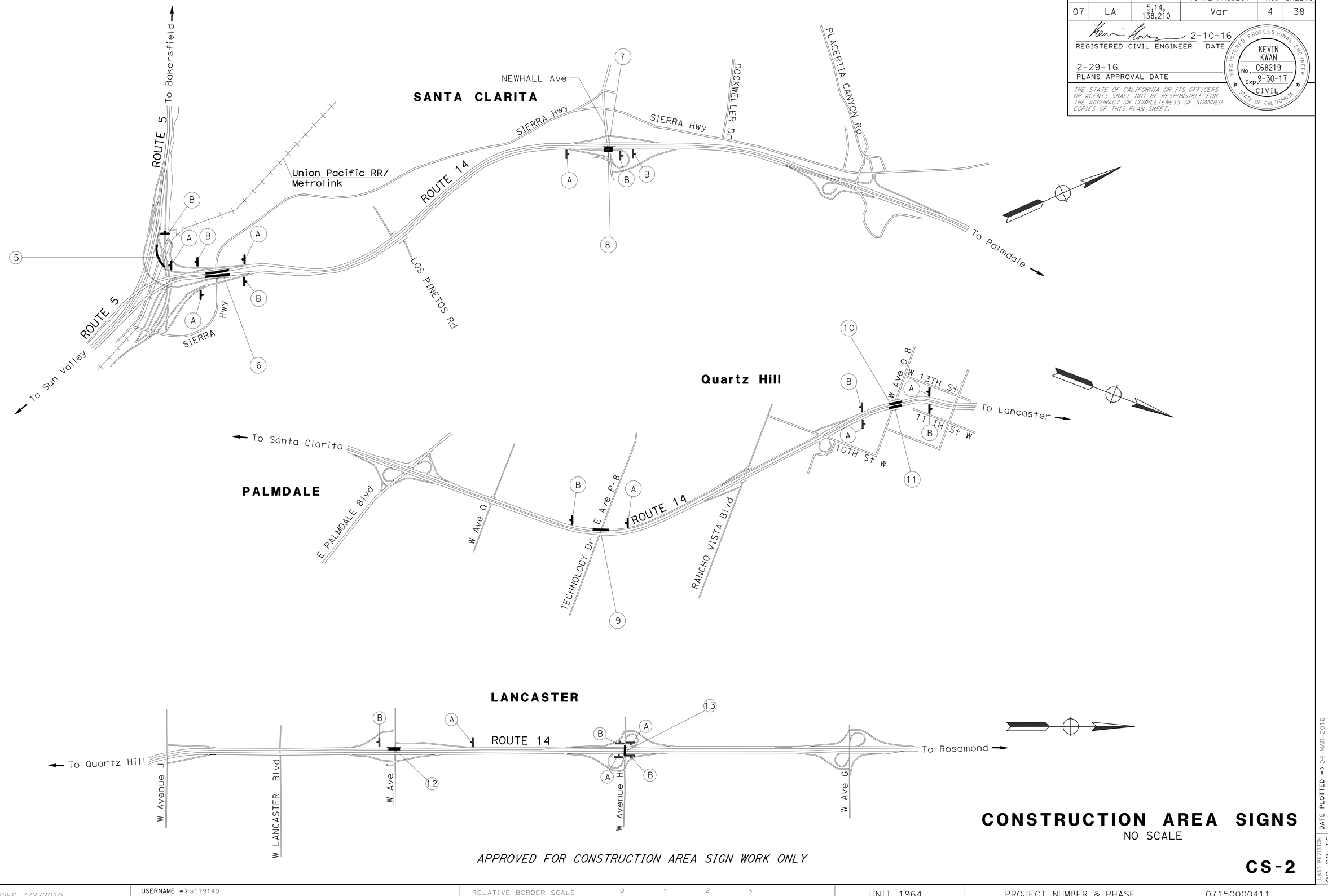
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	4	38

REGISTERED CIVIL ENGINEER — DATE 2-10-16

2-29-16
PLANS APPROVAL DATE

KEVIN KWAN No. C68219 Exp. 9-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — 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.



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI

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

REVISED BY	DATE REVISED

LAST REVISION — DATE PLOTTED => 04-MAR-2016 — TIME PLOTTED => 12:45
02-29-16

BORDER LAST REVISED 7/2/2010

USERNAME => s119140
DGN FILE => 73w0801a002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1964

PROJECT NUMBER & PHASE 07150000411

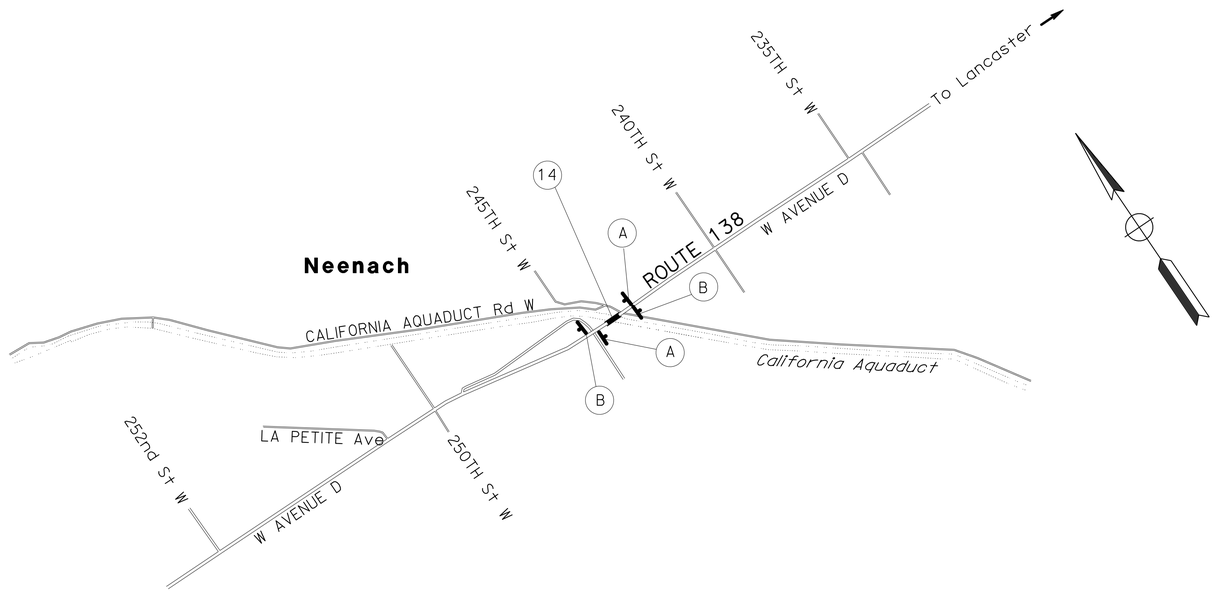
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	5	38

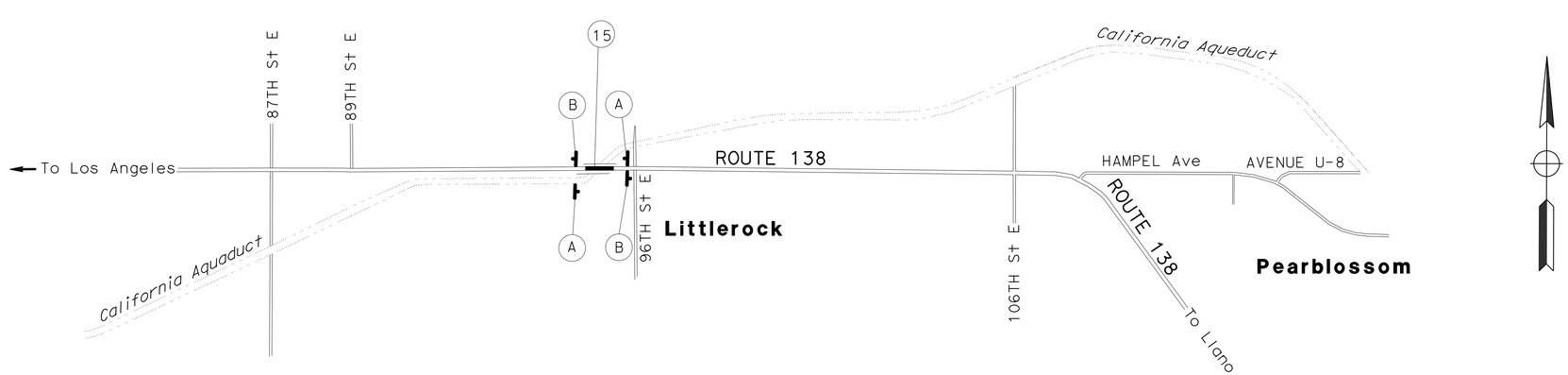
2-10-16
REGISTERED CIVIL ENGINEER DATE

2-29-16
PLANS APPROVAL DATE

KEVIN KWAN
No. C68219
Exp. 9-30-17
CIVIL
REGISTERED PROFESSIONAL ENGINEER
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.





CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-3

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

LAST REVISION DATE PLOTTED => 04-MAR-2016
02-29-16 TIME PLOTTED => 12:45

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 73w0801a003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1964
PROJECT NUMBER & PHASE 07150000411

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	6	38

REGISTERED CIVIL ENGINEER — DATE: 2-10-16

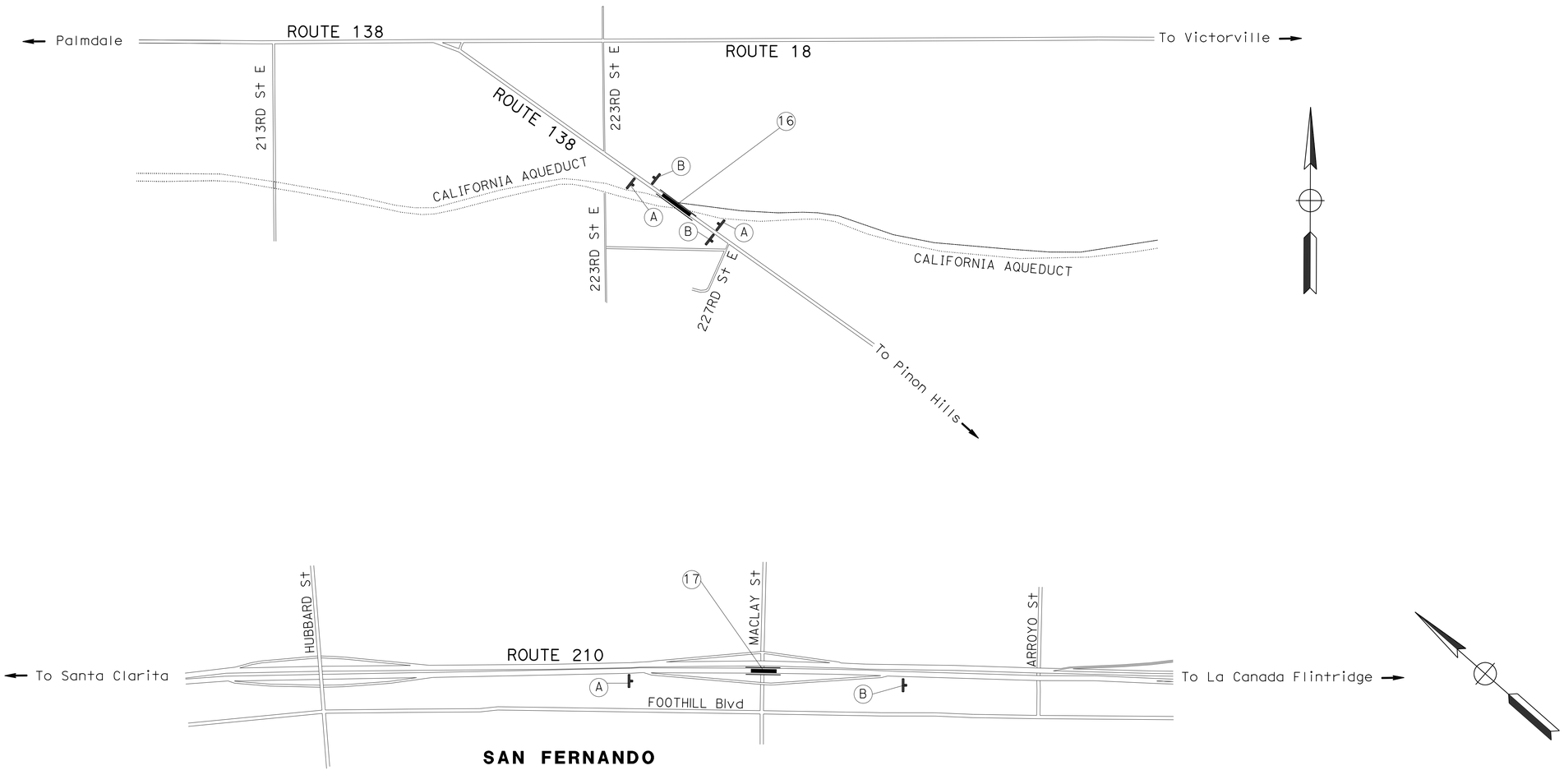
2-29-16
PLANS APPROVAL DATE

KEVIN KWAN No. C68219 Exp. 9-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — 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. REMOVE EXISTING CHANNELIZER AND PLACE AT THE SAME LOCATON ON BRIDGE No. 53-2174.



CONSTRUCTION AREA SIGNS

NO SCALE

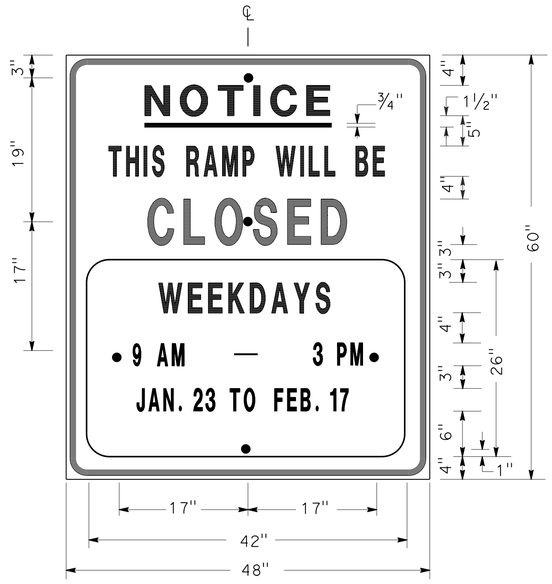
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-4

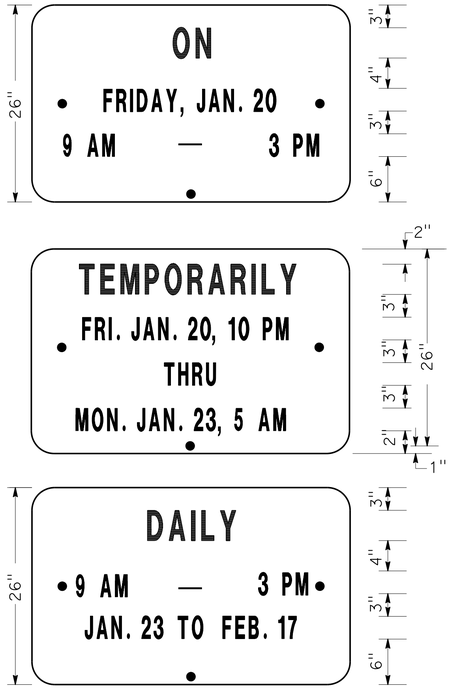
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE ENGINEERING
FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI
CALCULATED-DESIGNED BY: DINESH BHAVSAR
CHECKED BY: KEVIN KWAN
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 04-MAR-2016
02-29-16 | TIME PLOTTED => 12:45

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 73w0801a004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1964
PROJECT NUMBER & PHASE 07150000411



SIGN SP-1



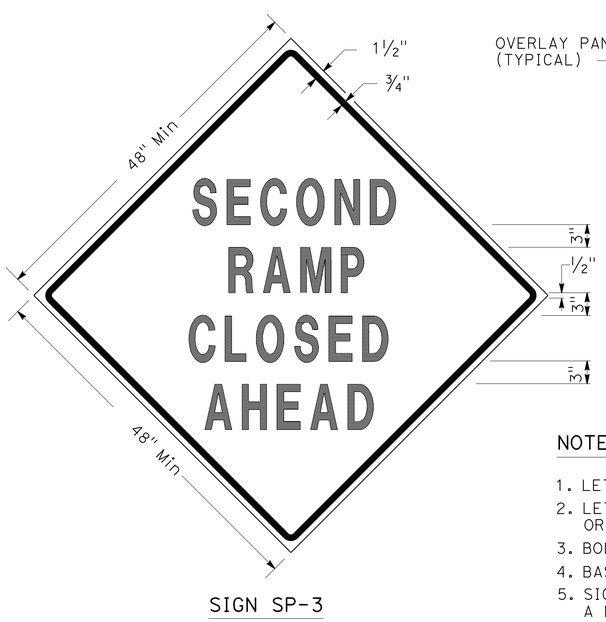
ALTERNATE OVERLAY PANELS (TYPICAL)

NOTES: SIGN SP-1

1. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
2. BOLT HOLES MUST BE ⅜" DIAMETER.
3. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
4. SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7′ ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5, 6, & 7*	
48"x60"	1¼"	¾"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1½"
* CONDENSED SPACING IF NECESSARY								

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3

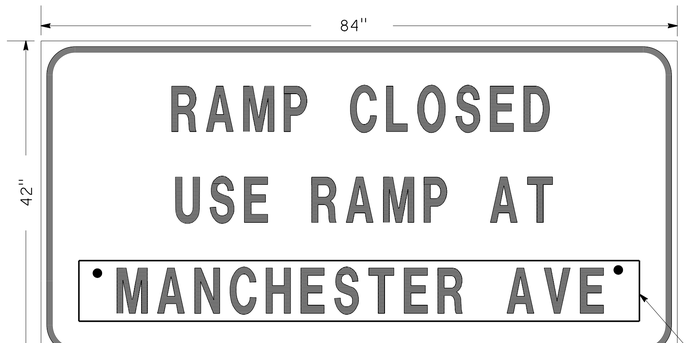
SIGN SP-5

NOTES: SIGNS SP-3 & SP-5

1. LETTERS - 6" SERIES D.
2. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
3. BOLT HOLES MUST BE ⅜" DIAMETER.
4. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
5. SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7′ ABOVE GROUND.
6. SIGN SP-5 MUST BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

SPECIAL SIGNS FOR EXIT RAMP CLOSURES

RADIUS



SIGN SP-4

OVERLAY PANEL (TYPICAL)

NOTES: SIGN SP-4

1. LETTERS - 6" SERIES C.
2. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
3. BOLT HOLES MUST BE ⅜" DIAMETER.
4. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
5. 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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	7	38

Ali Bamshad 1-28-16
REGISTERED CIVIL ENGINEER DATE

2-29-16
PLANS APPROVAL DATE

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

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

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 2/14
FUNCTIONAL SUPERVISOR: SAM ESQUENAZI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DTM

LAST REVISION: DATE PLOTTED => 04-MAR-2016 02-29-16 TIME PLOTTED => 12:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 DGN FILE => 73w080me001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1887 | PROJECT NUMBER & PHASE 07150000411

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	8	38

Ali Bamshad 1-28-16
REGISTERED CIVIL ENGINEER DATE

2-29-16
PLANS APPROVAL DATE

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

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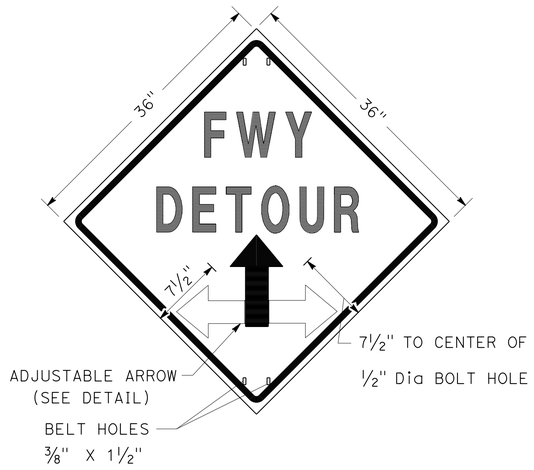
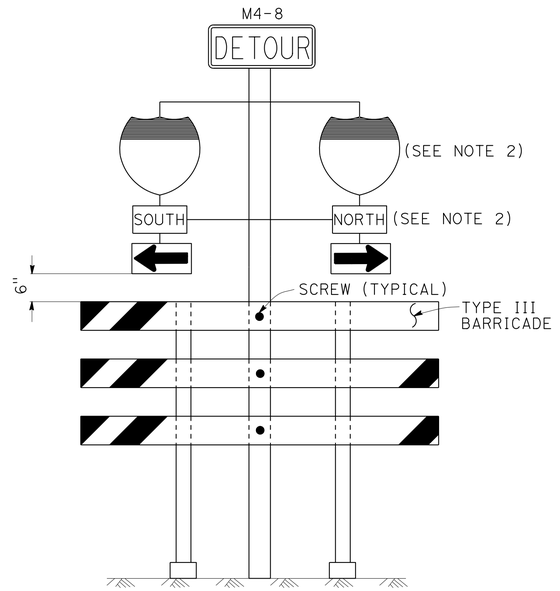
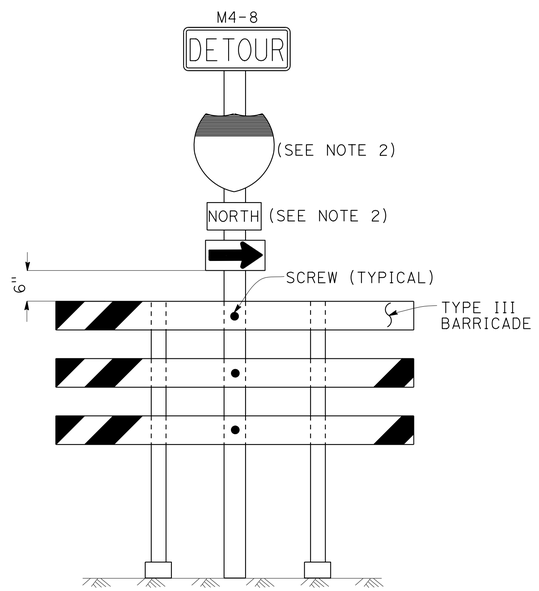


SIGN SP-2



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

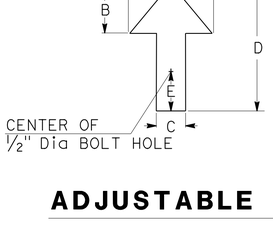
NOTES: SIGN SP-2

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

NOTES: SIGNS SP-6 & SP-7

1. IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
2. 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



DIMENSIONS				
A	B	C	D	E
6"	3"	2"	8"	1"

ADJUSTABLE ARROW DETAIL

ABBREVIATION

(CA) CALIFORNIA CODE

TRAFFIC HANDLING DETAILS

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

SHEET 2 OF 2

NO SCALE

THD-2

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

LAST REVISION: DATE PLOTTED => 04-MAR-2016
02-29-16 TIME PLOTTED => 12:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 73w080me002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1887 | PROJECT NUMBER & PHASE 07150000411

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	9	38

Ali Bamshad 1-28-16
REGISTERED CIVIL ENGINEER DATE

2-29-16
PLANS APPROVAL DATE

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

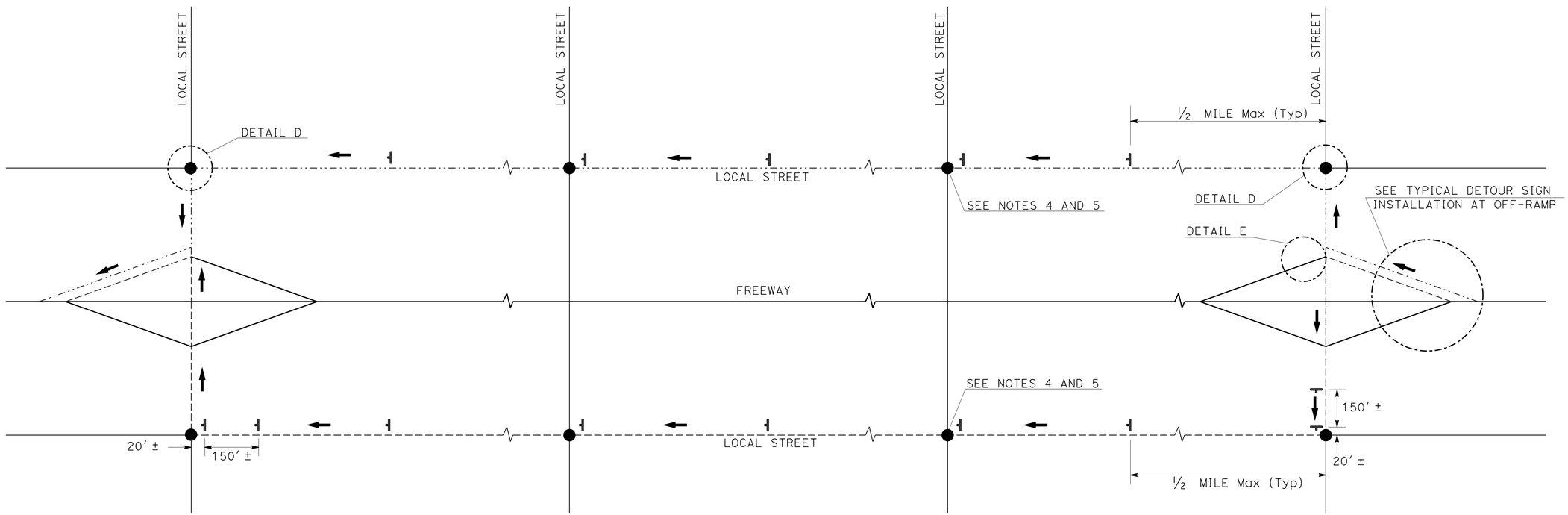
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

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

NOTES:

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
4. 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.
5. 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.
6. 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

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: SAM ESQUENAZI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DTM

REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION DATE PLOTTED => 04-MAR-2016
LAST REVISION TIME PLOTTED => 12:45
02-29-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	10	38

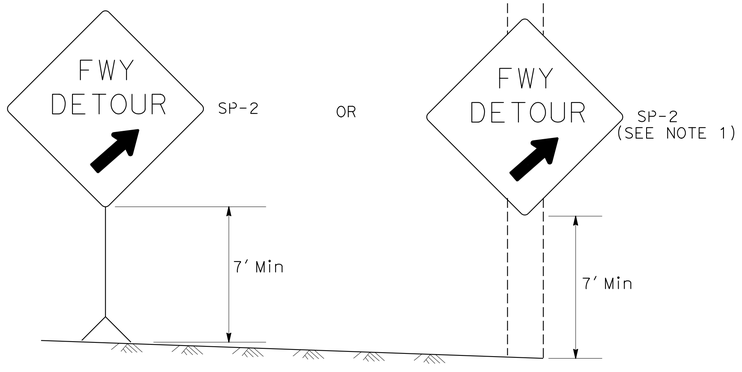
Ali Bamshad 1-28-16
REGISTERED CIVIL ENGINEER DATE

2-29-16
PLANS APPROVAL DATE

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

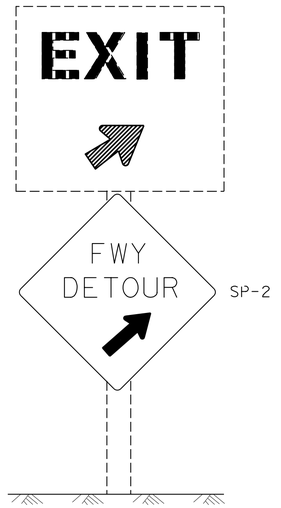
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Exist G85 (CA)



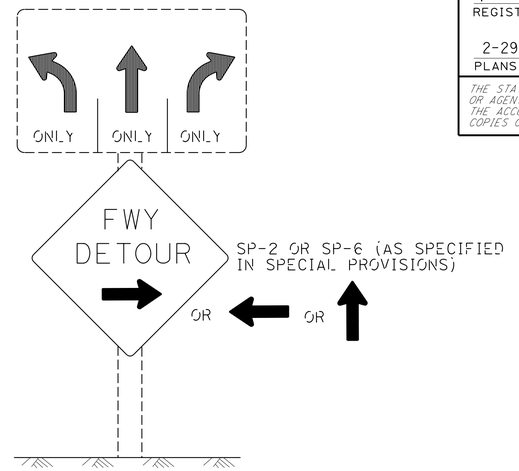
DETAIL A (SEE NOTE 3)

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

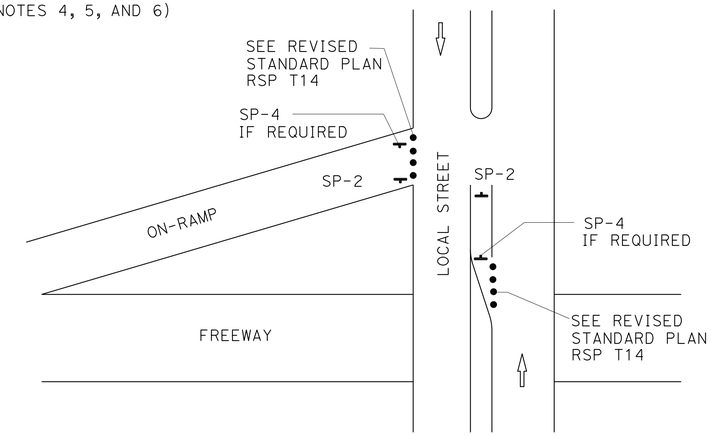


DETAIL B (SEE NOTE 3)

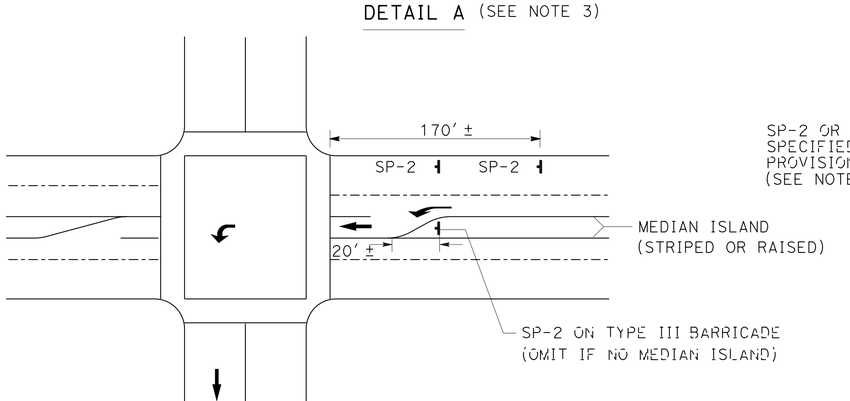
Exist R3-3 SERIES



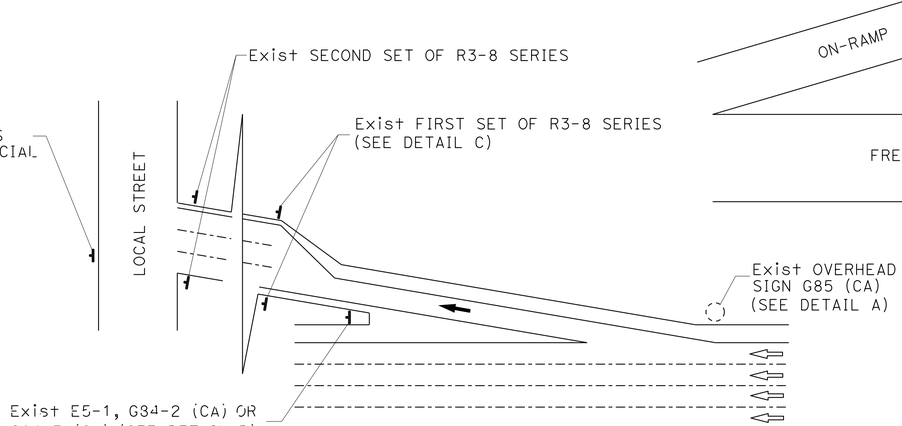
DETAIL C (SEE NOTES 4, 5, AND 6)



DETAIL E



DETAIL D



TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

NOTES: SIGN SP-2

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

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- DETOUR DIRECTION
- EXISTING OVERHEAD SIGN

SIGN CODE LEGEND

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

XXYY-Y (CA): CALIFORNIA SIGN CODE PER CALIFORNIA MUTCD

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

NO SCALE

THD-4

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

LAST REVISION DATE PLOTTED => 04-MAR-2016
TIME PLOTTED => 12:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 73w080me004.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1887 | PROJECT NUMBER & PHASE 07150000411

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	11	38

Ali Bamshad 1-28-16
REGISTERED CIVIL ENGINEER DATE

2-29-16
PLANS APPROVAL DATE

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

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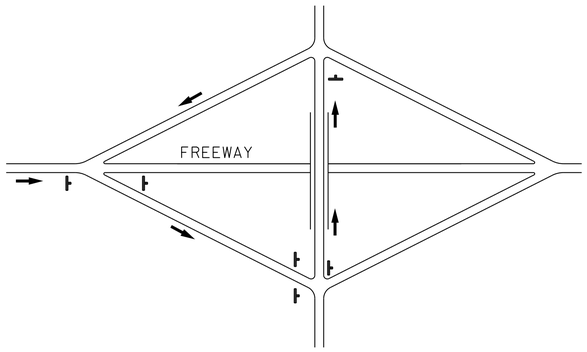
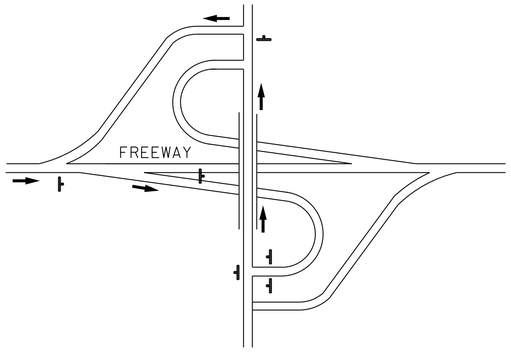
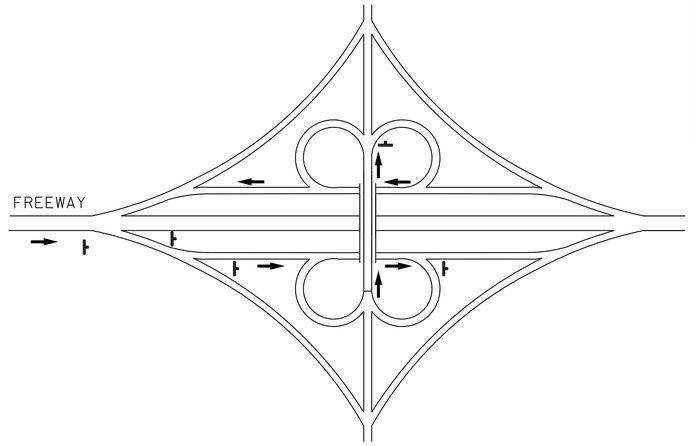


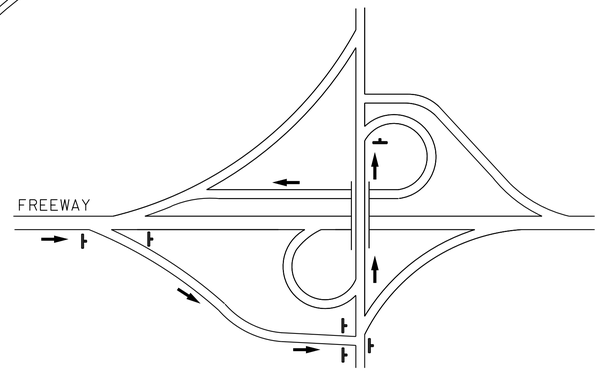
TYPE I



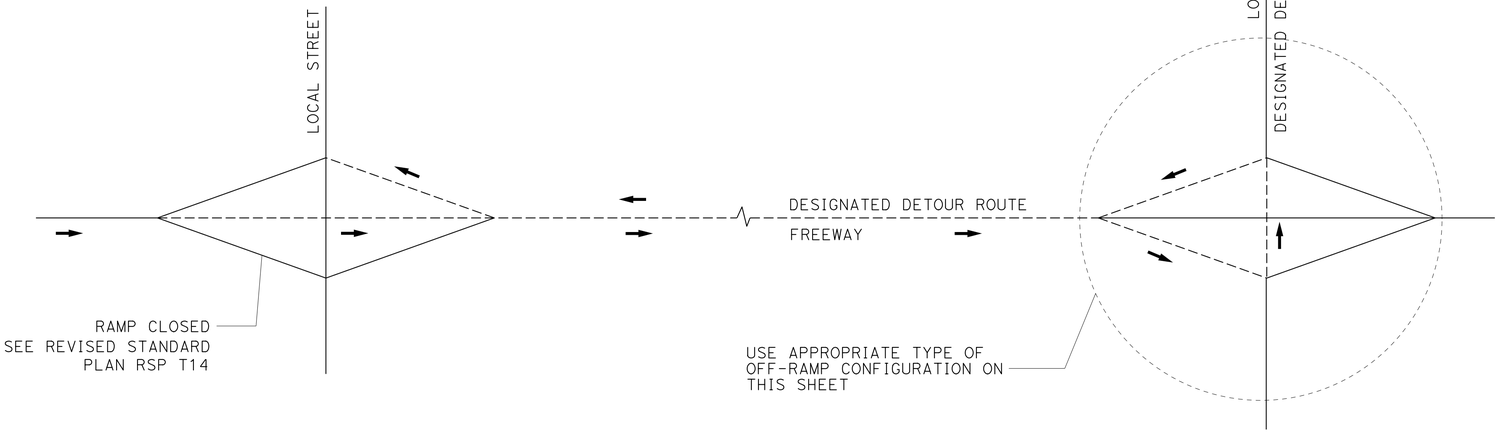
TYPE II

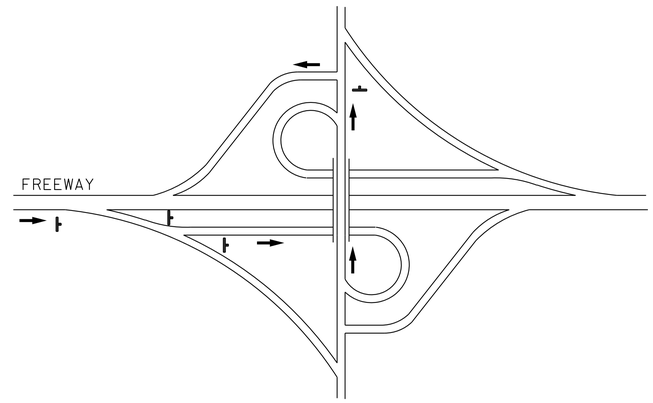


TYPE III



TYPE IV





TYPE V

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

TYPICAL DETOUR SIGN INSTALLATION FOR OFF-RAMP CLOSURE

NOTES:

1. FOR RAMP CONFIGURATIONS NOT SHOWN, THE EXACT LOCATIONS AND MINIMUM NUMBER OF SP-2 SIGNS MUST BE DETERMINED BY THE ENGINEER.
2. 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

CALCULATED-DESIGNED BY
CHECKED BY

ALBERT K YU
JOCELYN C CHIANG

REVISED BY
DATE REVISED

JC
2/14

FUNCTIONAL SUPERVISOR
SAM ESQUENAZE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
Caltrans

LAST REVISION | DATE PLOTTED => 04-MAR-2016
02-29-16 | TIME PLOTTED => 12:45

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 73w080me005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1887
PROJECT NUMBER & PHASE 07150000411

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	12	38

Ali Bamshad 1-28-16
REGISTERED CIVIL ENGINEER DATE

2-29-16
PLANS APPROVAL DATE

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

NOTES:

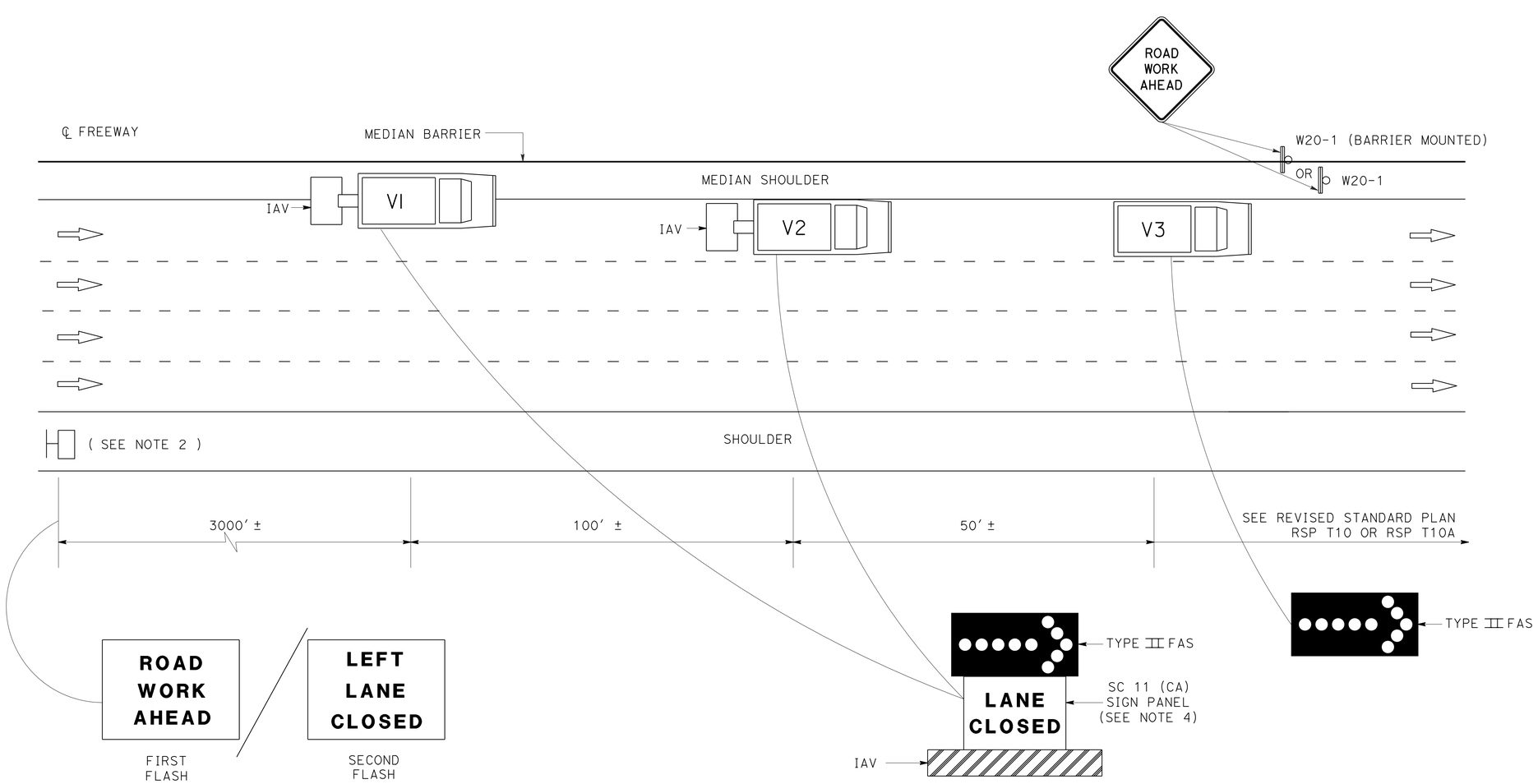
1. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS MUST BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500′ MUST BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS MUST BE TYPE III OR IV RETROREFLECTORIZED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



PCMS OR TRUCK MOUNTED CMS MESSAGE

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR MEDIAN SHOULDERS LESS THAN 8 FEET

NO SCALE

THD-6

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

LAST REVISION | DATE PLOTTED => 04-MAR-2016
02-29-16 | TIME PLOTTED => 12:45

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 73w080me006.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1887
PROJECT NUMBER & PHASE 07150000411

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	13	38

Ali Bamshad 1-28-16
REGISTERED CIVIL ENGINEER DATE

2-29-16
PLANS APPROVAL DATE

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

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NOTES:

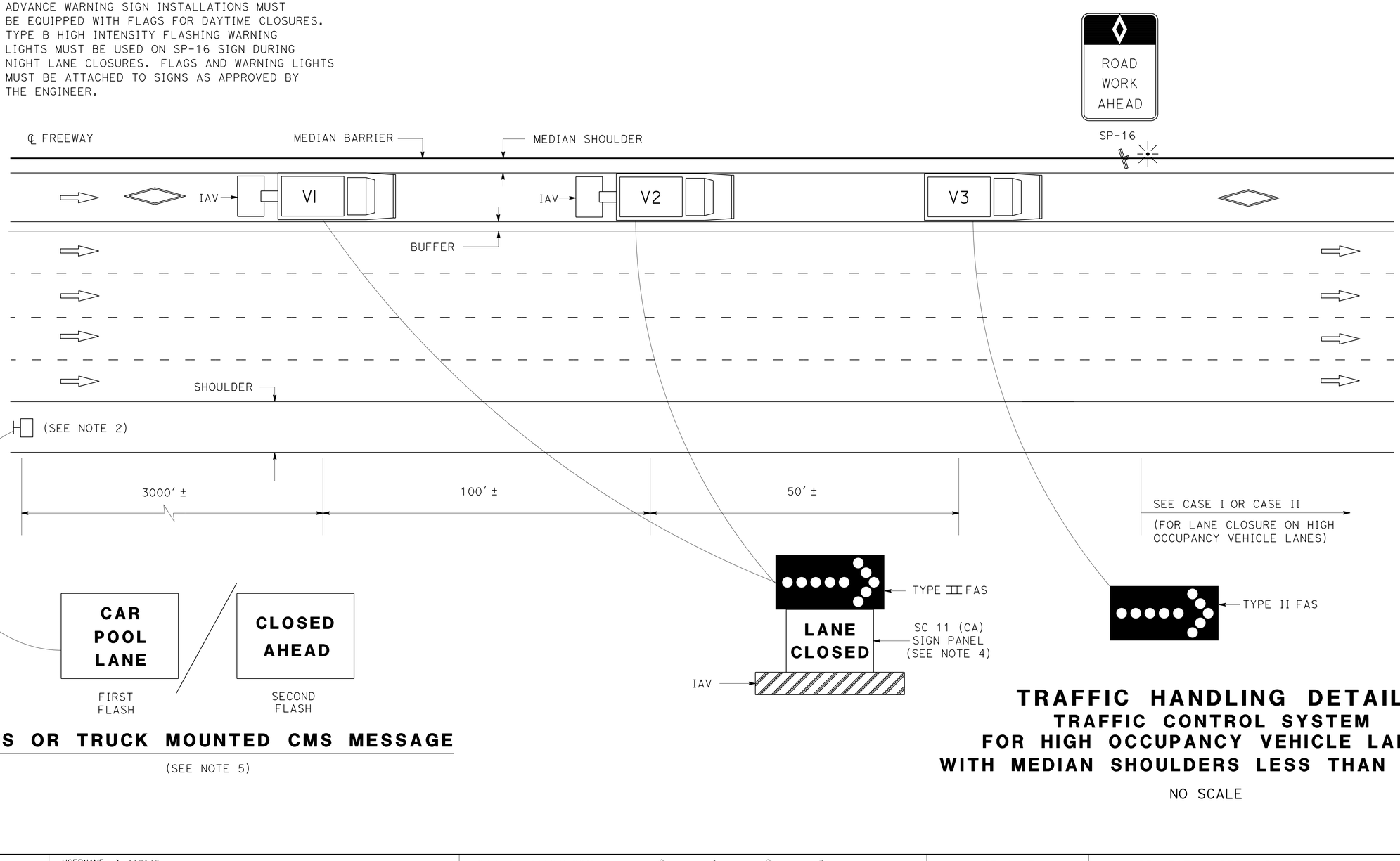
1. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS MUST BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500′ MUST BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS MUST BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.
5. PLACE PCMS ON THE MEDIAN SHOULDER WHERE SUFFICIENT ROOM (SUCH AS CHP ENFORCEMENT AREAS) EXISTS.
6. 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



PCMS OR TRUCK MOUNTED CMS MESSAGE

(SEE NOTE 5)

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

NO SCALE

THD-7

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

LAST REVISION DATE PLOTTED => 04-MAR-2016
02-29-16 TIME PLOTTED => 12:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 73w080me007.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1887 | PROJECT NUMBER & PHASE 07150000411

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	14	38

REGISTERED CIVIL ENGINEER — DATE 2-10-16

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KEVIN KWAN — No. C68219 — Exp. 9-30-17 — CIVIL — STATE OF CALIFORNIA

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

PAVEMENT DELINEATION QUANTITIES

LOCATION				THERMOPLASTIC TRAFFIC STRIPE													THERMO-PLASTIC PAVEMENT MARKING		PAVEMENT MARKER							
				DETAIL															RETRO-REFLECTIVE							
				8	11	12	13/14 (Mod)	25/ 25A	27B	22	28	29	36	36A	38A											
				4" (BROKEN 17-7) (WHITE)	4" (BROKEN 36-12) (WHITE)	4" (BROKEN 36-12) (WHITE)	4" (BROKEN 36-12) (WHITE)	4" SOLID YELLOW	4" SOLID WHITE	4" SOLID YELLOW	4" SOLID YELLOW	4" SOLID YELLOW	8" SOLID WHITE	8" SOLID WHITE	8" SOLID WHITE	TYPE IV, III, VI ARROWS	DIAGONAL (WHITE)	TYPE H	TYPE G	TYPE D	TYPE A (NON-REFLECTIVE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE PAINTED TRAFFIC STRIPE	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER
Loc No. (X)	BRIDGE NAME	Rte	PM	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	LF	LF	LF	SQFT	EA
1	SANTA CLARA RIVER BRIDGE	5	R53.7	230			4,530	1,510	2,040				880	546			970	34	118		378	6,090	1,514	750	470	960
2	PALOMAS WASH	5	60.52				144	48	48									3	10			91	48			14
5	S14-N5 CONNECTOR OC	14	R24.92															61	21		80	346	2,878		126	650
6	SIERRA HIGHWAY UC	14	R25.13															39	74		140	2,347	1,700			250
7	NEWHALL AVENUE UC	14	R27.04															52	14		52	760	304	456		136
8	NEWHALL AVENUE UC	14	R27.04															7	4		12	342	152			60
10	AVENUE "O-8" UC	14	R62.12				304	152	152									4	7		24	300	304	152		71
11	AVENUE "O-8" UC	14	R62.12				292	146	146									4	7		24	355	146			68
SUBTOTAL				230			5,270	1,856	2,386				880	546			970	204	255		710	10,631	7,046	1,358	596	2,209
SHEET TOTAL				230			5,270	4,242					1,426			970		459			570	10,631	7,046	1,358	596	2,209

PAVEMENT DELINEATION QUANTITIES

PDQ-1

CALCULATED-DESIGNED BY: DINESH BHAVSAR
CHECKED BY: KEVIN KWAN
FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI
REVISED BY
DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION | DATE PLOTTED => 04-MAR-2016
02-29-16 | TIME PLOTTED => 12:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	15	38

Kevin Kwan 2-10-16
REGISTERED CIVIL ENGINEER DATE

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KEVIN KWAN — No. C68219 — Exp. 9-30-17 — CIVIL — STATE OF CALIFORNIA

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

PAVEMENT DELINEATION QUANTITIES

LOCATION				THERMOPLASTIC TRAFFIC STRIPE												CHANNELIZERS (SURFACE MOUNTED) (LEFT IN PLACE)	THERMO-PLASTIC PAVEMENT MARKING		PAVEMENT MARKER				REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE PAINTED TRAFFIC STRIPE	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER	REMOVE CHANNELIZERS (N)
				DETAIL															RETRO-REFLECTIVE										
				8	11	12	13/14 (Mod)	25/ 25A	27B	22	28	29	36	36A	38A		TYPE IV, III, VI ARROWS	DIAGONAL (WHITE)	TYPE H	TYPE G	TYPE D	TYPE A (NON-REFLECTIVE)						
				4" (BROKEN 17-7) (WHITE)	4" (BROKEN 36-12) (WHITE)	4" (BROKEN 36-12) (WHITE)	4" (BROKEN 36-12) (WHITE)	4" SOLID YELLOW	4" SOLID WHITE	4" SOLID YELLOW	4" SOLID YELLOW	4" SOLID YELLOW	8" SOLID WHITE	8" SOLID WHITE	8" SOLID WHITE	CHANNELIZERS (SURFACE MOUNTED) (LEFT IN PLACE)	TYPE IV, III, VI ARROWS	DIAGONAL (WHITE)	TYPE H	TYPE G	TYPE D	TYPE A (NON-REFLECTIVE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE PAINTED TRAFFIC STRIPE	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER	REMOVE CHANNELIZERS (N)
Loc. No. (#)	BRIDGE NAME	Rte	PM	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	LF	LF	LF	SQFT	EA	EA
12	AVENUE "I" UC	14	R68.96				294	147	147										7	4		24	221	147			68	
13	AVENUE "H" OC	14	R69.99		762				508		1,016									13			963	1,016	508		13	
14	CALIFORNIA AQUEDUCT	138	14.6						270	270											13		270	270	135		13	
15	CALIFORNIA AQUEDUCT	138	56.06						274	262					138					7	18		550	274			20	
16	CALIFORNIA AQUEDUCT	138	70.28						136	136						1					8		136	136			8	1
17	MACLAY STREET UC	210	R4.94				294	147	147										4	7		26	221	147			70	
SUBTOTAL					762		588	294	1,482	668	1,016				138	1			11	31	39	50	2,361	1,990	643		192	1
SHEET TOTAL					1,350			3,460					138		1				81			50	2,361	1,990	643		192	1
SHEET TOTAL (FROM PDQ-1)				230	5,270			4,242					1,426			970			459			570	10,631	7,046	1,358	596	2,209	
GRAND TOTAL				230	6,620			7,702					1,564		1	970			540			620	12,992	9,036	2,001	596	2,401	1

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

PAVEMENT DELINEATION QUANTITIES

PDQ-2

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: DINESH BHAVSAR
CHECKED BY: KEVIN KWAN
FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION: DATE PLOTTED => 04-MAR-2016 02-29-16 TIME PLOTTED => 12:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 73w080nc002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1964 | PROJECT NUMBER & PHASE 07150000411

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	16	38

REGISTERED CIVIL ENGINEER — DATE 2-10-16

2-29-16
PLANS APPROVAL DATE

KEVIN KWAN No. C68219 Exp. 9-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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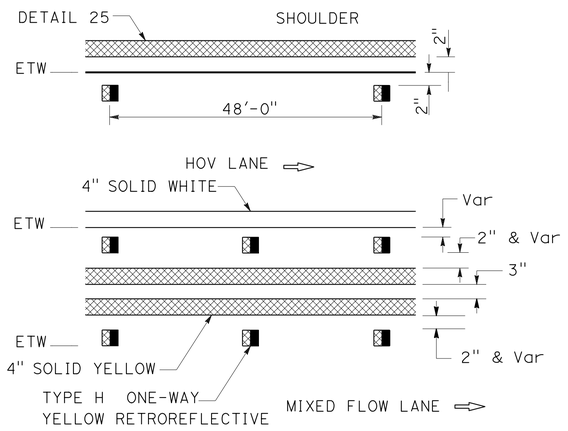

HOV BUFFER STRIPING DETAIL

DETAIL 13 (MODIFIED)

NOTE:

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

PAVEMENT DELINEATION QUANTITIES

LOCATION				THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)							THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)	
				DETAIL					DETAIL			
				13/14 (Mod)	25/ 25A	27B			36A	36B		
				4" (BROKEN 36-12) (WHITE)	4" SOLID YELLOW	4" SOLID WHITE	HOV BUFFER STRIPING 4" SOLID YELLOW	4" SOLID WHITE	8" SOLID WHITE	8" SOLID WHITE	TYPE IV, III, VI ARROWS	DIAGONAL (WHITE)
Loc. No. (#)	BRIDGE NAME	Rte	PM	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT
5	S14-N5 CONNECTOR OC	14	R24.92	900	1,439	1,439					126	
6	SIERRA HIGHWAY UC	14	R25.13	1,679	830	1,492	870	435	460	220		250
7	NEWHALL AVENUE UC	14	R27.04	460	304	608	912	384				
8	NEWHALL AVENUE UC	14	R27.04	152	152	152						
			SUBTOTAL	3,191	2,725	3,691	1,782	819	460	220	126	250
			TOTAL	3,191	9,017				680		376	

PAVEMENT DELINEATION QUANTITIES

PDQ-3

LAST REVISION DATE PLOTTED => 02-29-16 04-MAR-2016
TIME PLOTTED => 12:45

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

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 73w080nc003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1964
PROJECT NUMBER & PHASE 07150000411

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
Mtl	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

Oblr	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 Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
℄,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
Tel	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	5,14, 138,210	Var	17	38

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

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 2-29-16

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	18	38

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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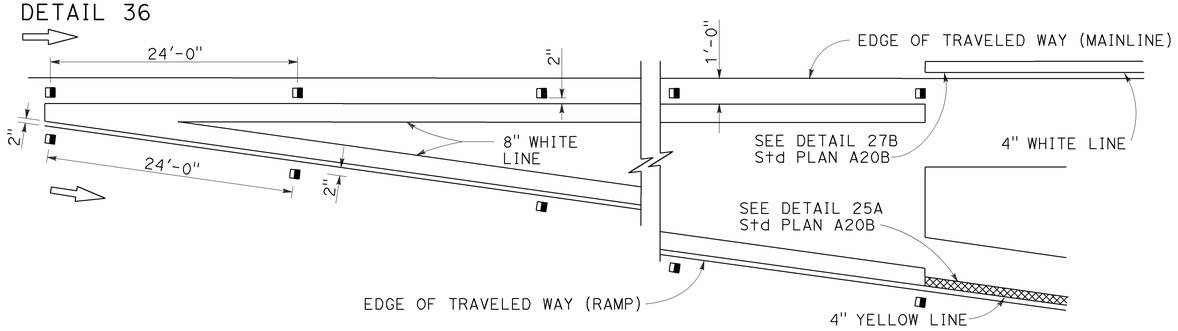
TO ACCOMPANY PLANS DATED 2-29-16

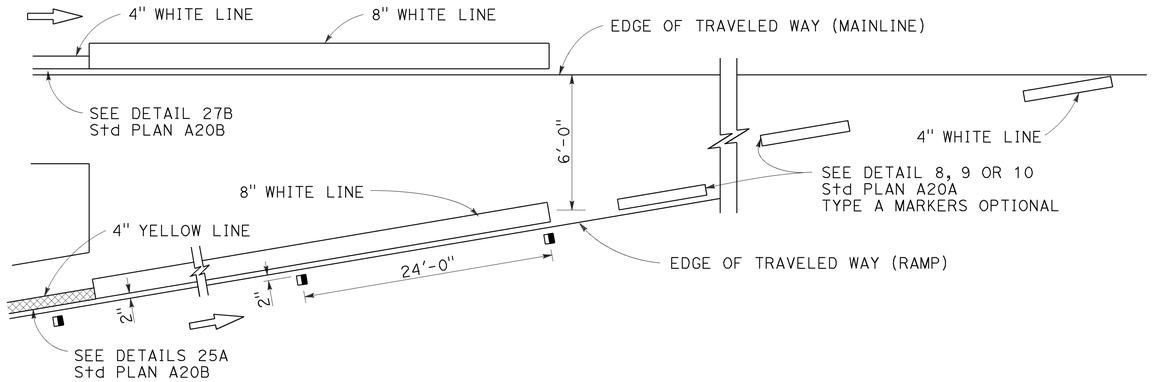
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



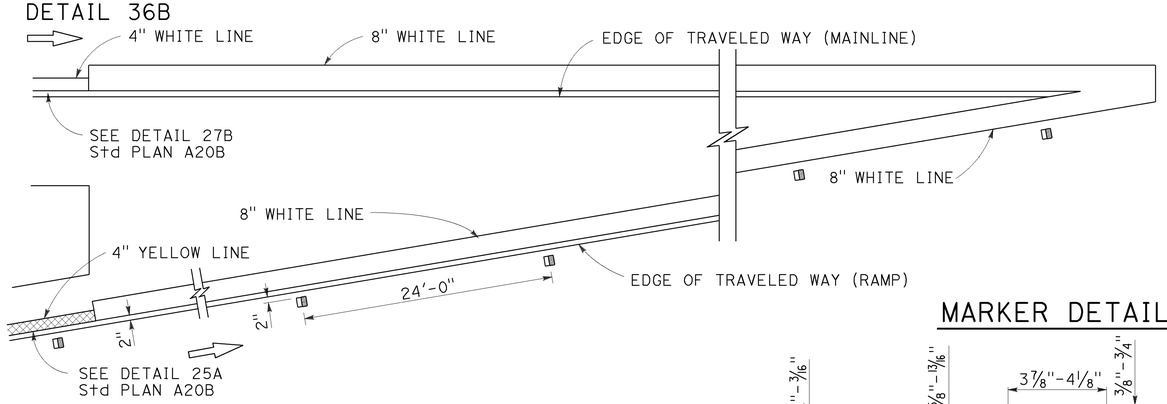
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A



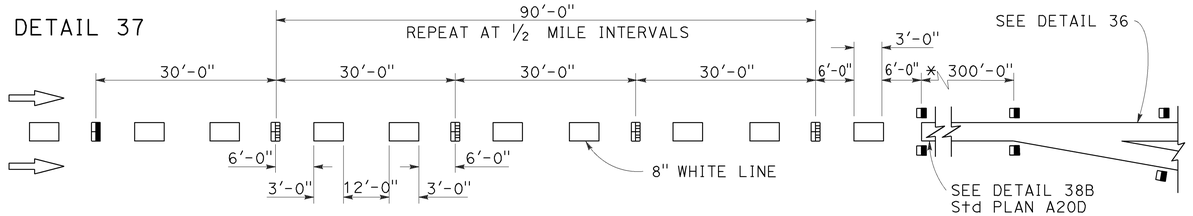
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B

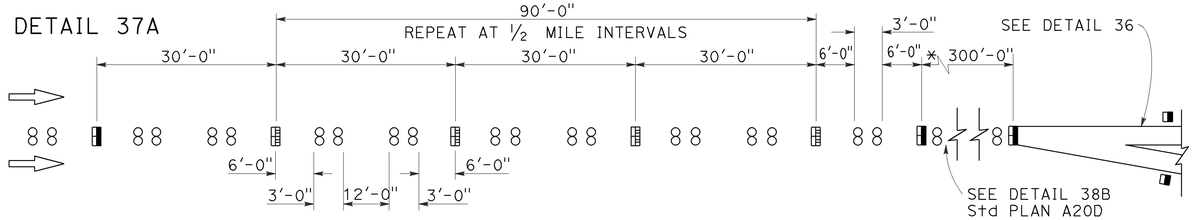


LANE DROP AT EXIT RAMPS

DETAIL 37



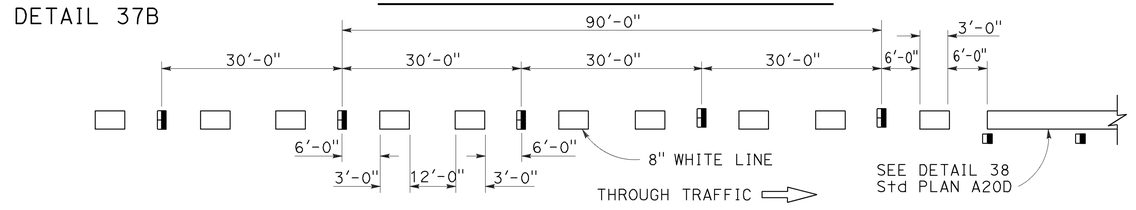
DETAIL 37A



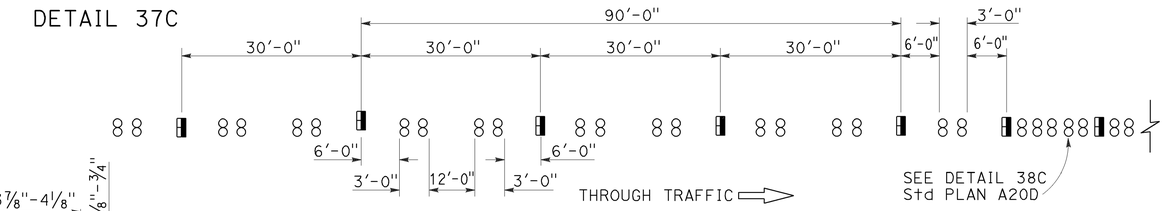
* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS

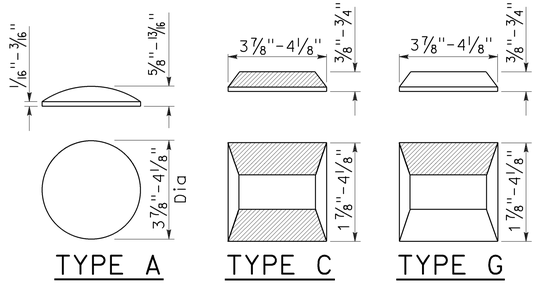
DETAIL 37B



DETAIL 37C



MARKER DETAILS



LEGEND:

MARKERS

- ○ TYPE A WHITE NON-REFLECTIVE
- ▣ TYPE C RED-CLEAR RETROREFLECTIVE
- ◨ TYPE G ONE-WAY CLEAR RETROREFLECTIVE

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

4-29-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	19	38

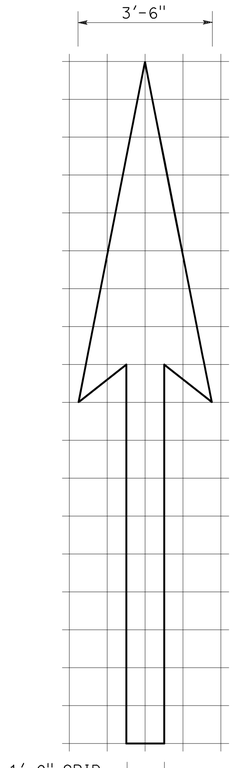
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

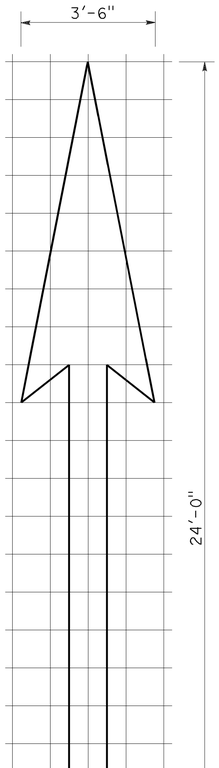
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-29-16



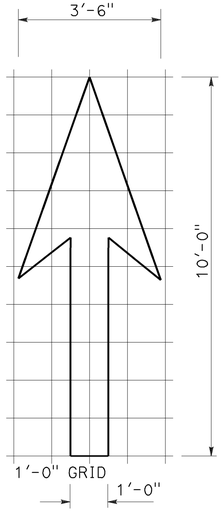
A=25 ft²

TYPE I 18'-0" ARROW



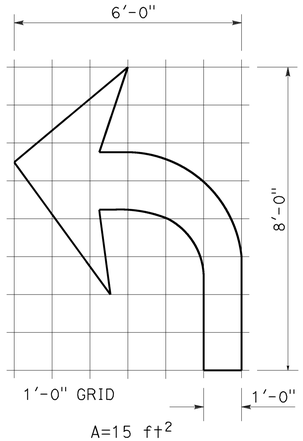
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

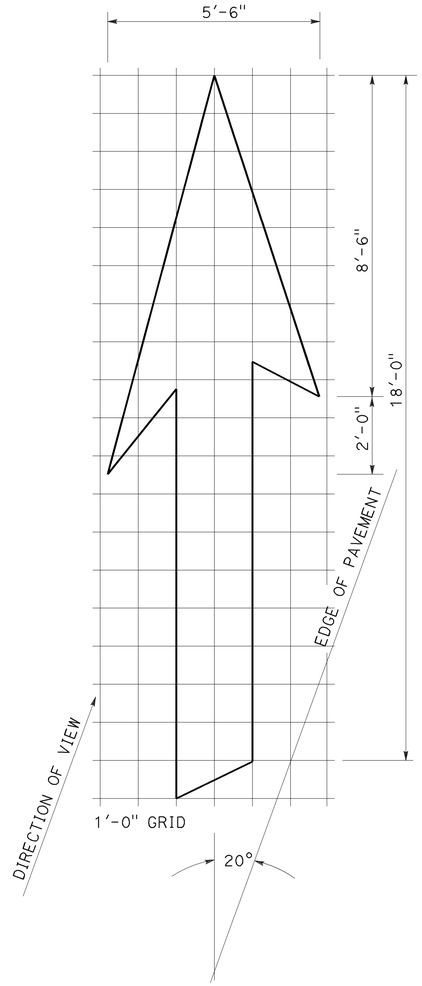
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

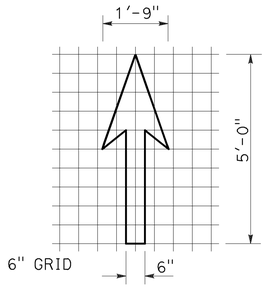
(For Type IV (R) arrow, use mirror image)



A=42 ft²

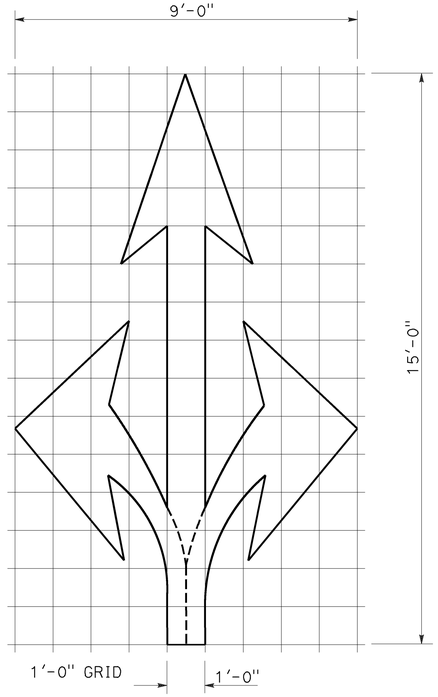
TYPE VI ARROW

Right lane drop arrow (For left lane, use mirror image)



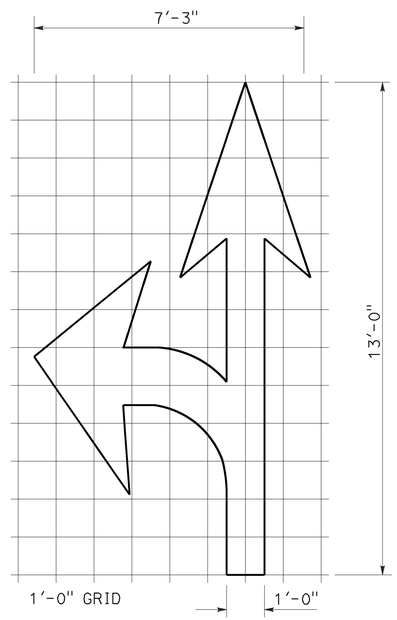
A=3.5 ft²

BIKE LANE ARROW



A=36 ft²

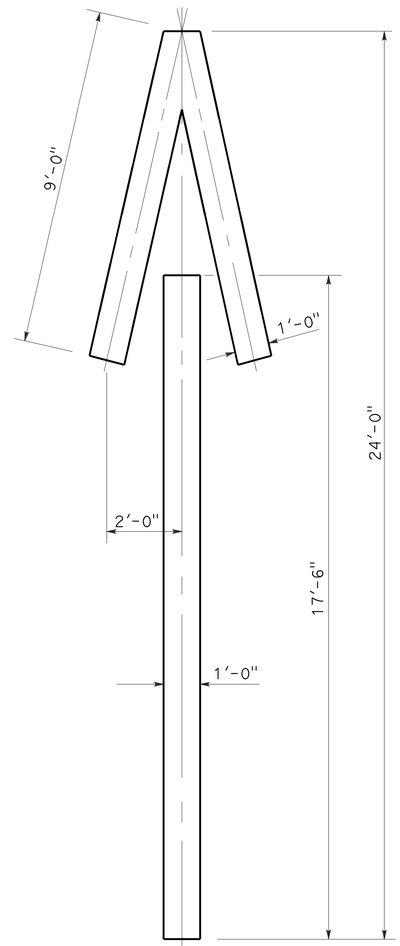
TYPE VIII ARROW



A=27 ft²

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft²

TYPE V ARROW

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

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

REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	20	38

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 2-29-16

2010 REVISED STANDARD PLAN RSP T9

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		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	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%
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 recommmended 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

4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	21	38

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 2-29-16

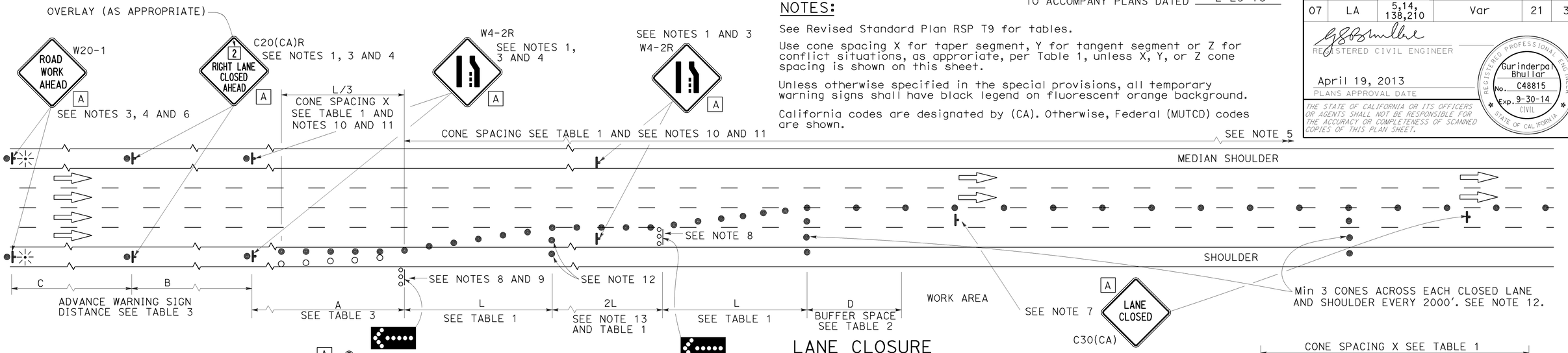
NOTES:

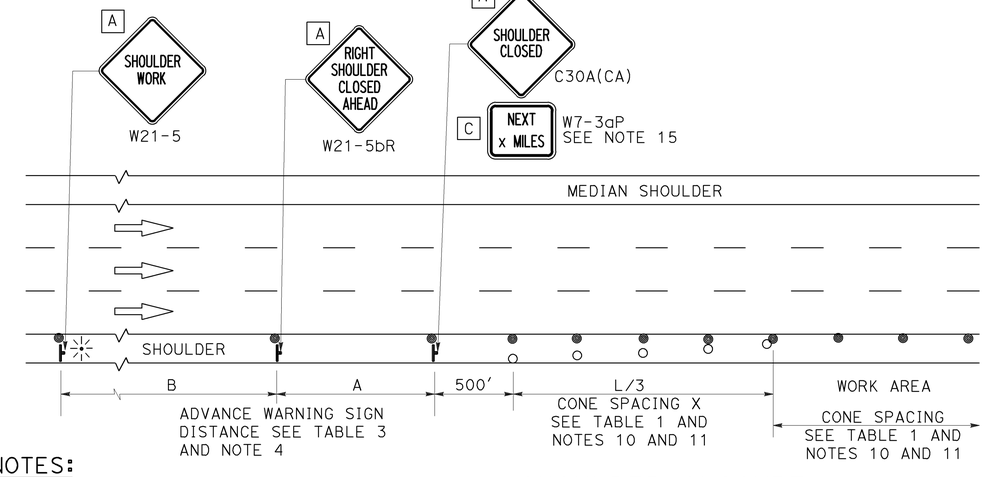
See Revised Standard Plan RSP T9 for tables.

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

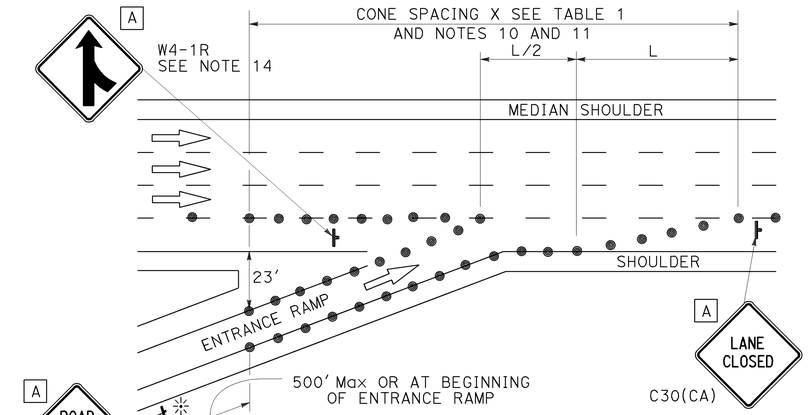
Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

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

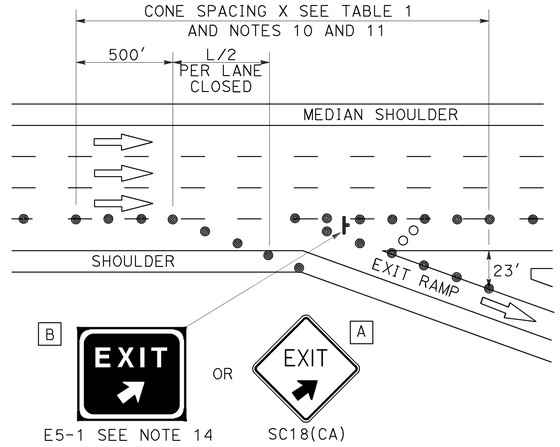




LANE CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

NOTES:

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

SHOULDER CLOSURE

6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT___MILES" plaque must be used if theshoulder 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

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	22	38

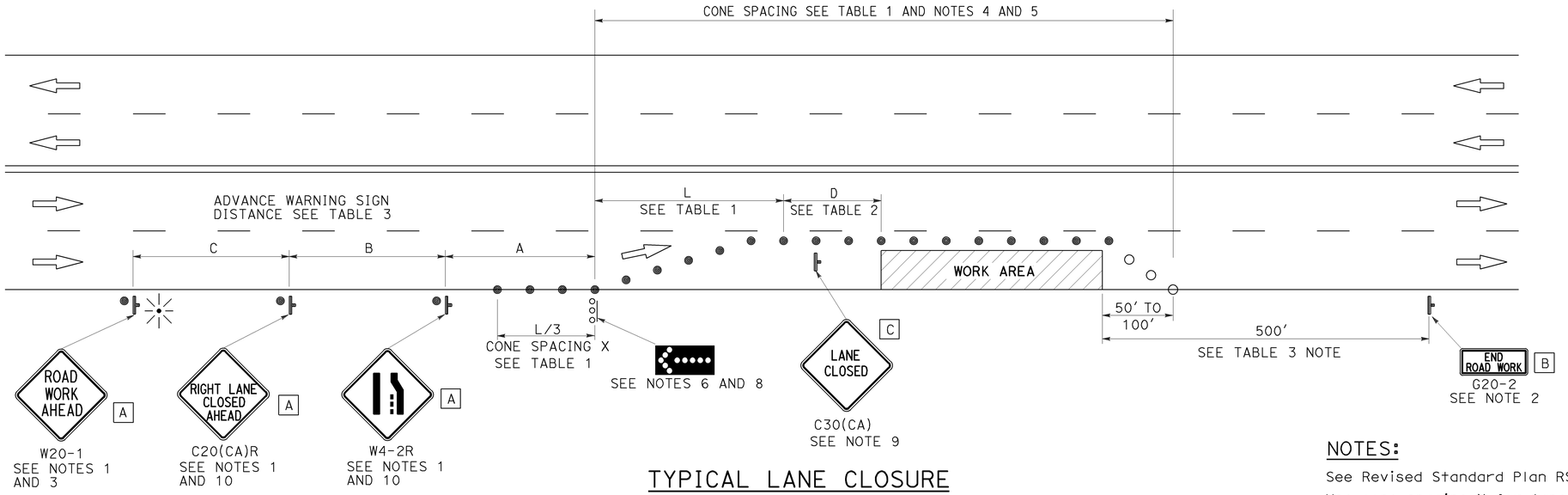
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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 2-29-16



TYPICAL LANE CLOSURE

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.

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 approriate, 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.

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

4-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	23	38

Devinder Singh
REGISTERED CIVIL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Devinder Singh — No. C50470 — Exp. 6-30-17 — CIVIL — STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 2-29-16

NOTES:

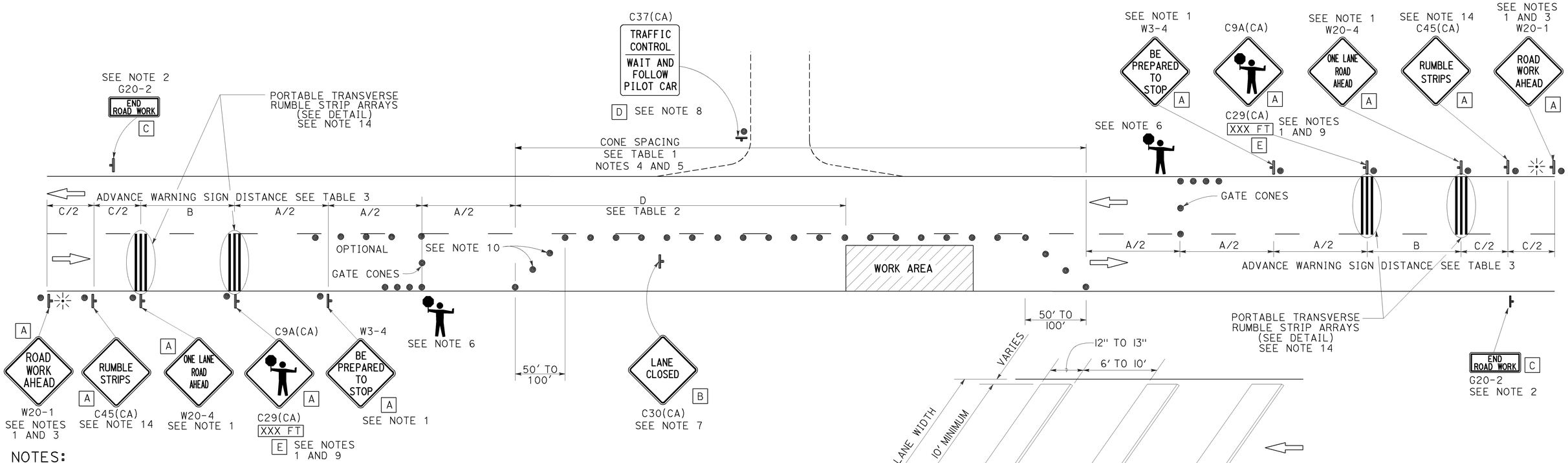
See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, 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



NOTES:

1. 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.
2. 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.
3. 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.
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. 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.
7. 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.
8. 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.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
11. The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
12. Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
13. 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.
14. Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
    A. Work duration occupies a location for four hours or less
    B. Posted speed limit is below 45 MPH
    C. Work is of emergency nature
    D. Work zone is in snow or icy weather conditions

PORTABLE TRANSVERSE RUMBLE STRIP ARRAY DETAIL

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

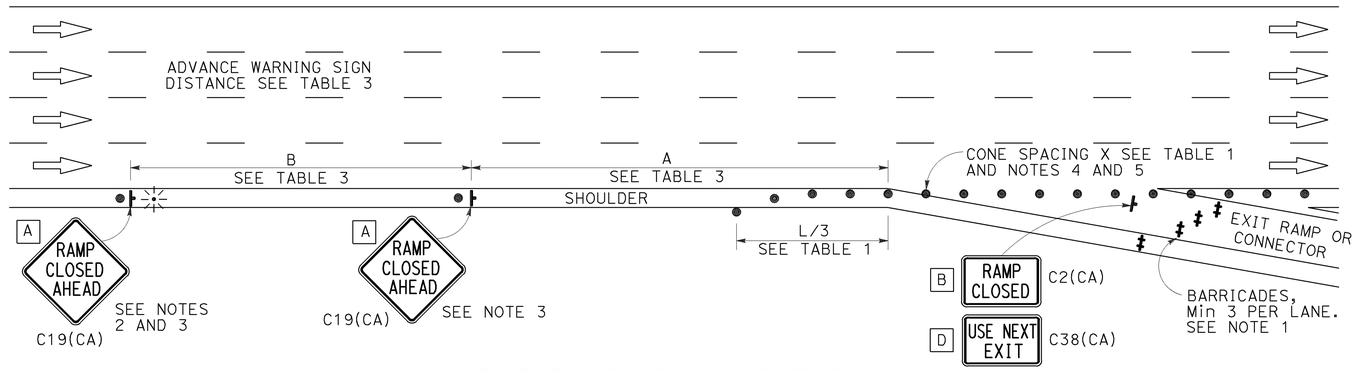
RSP T13 DATED OCTOBER 30, 2015 SUPERSEDES RSP T13 DATED OCTOBER 17, 2014, RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

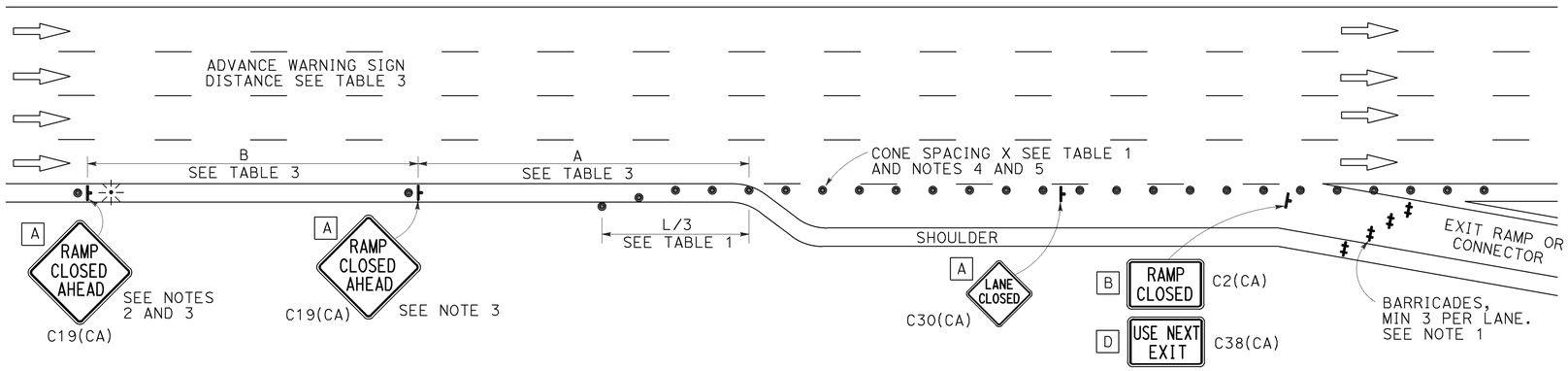
2010 REVISED STANDARD PLAN RSP T13

10-13-15

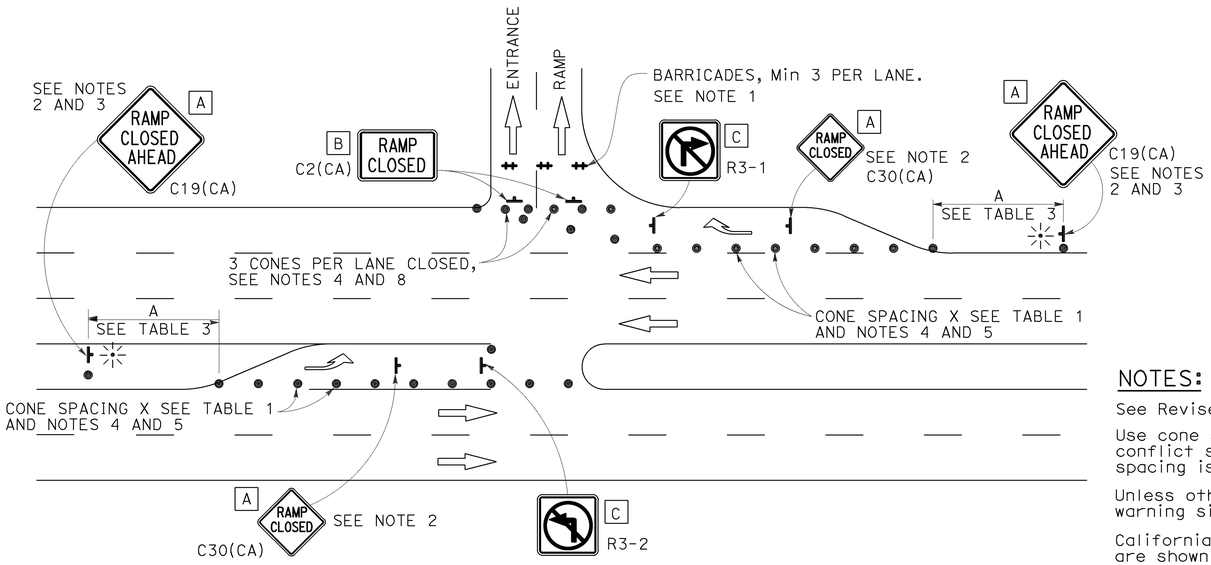
TYPICAL RAMP CLOSURES



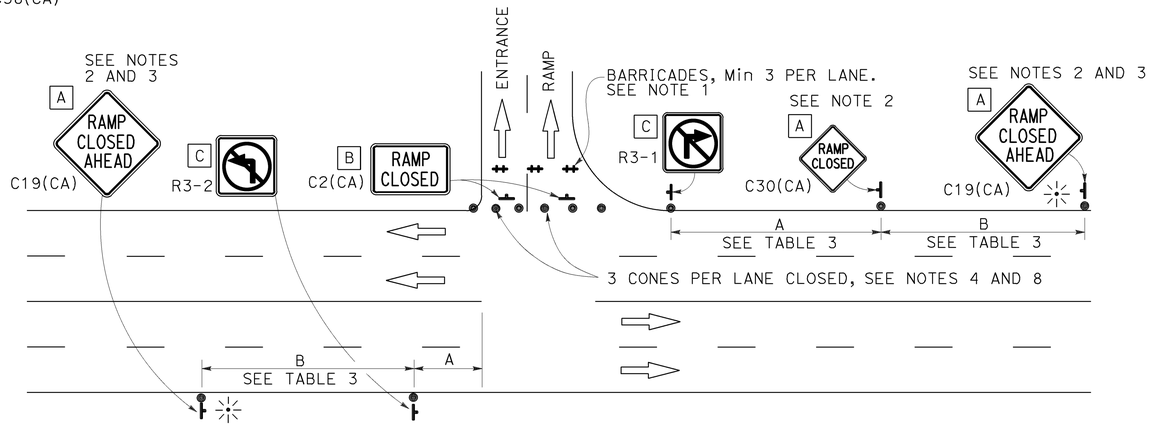
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

SIGN PANEL SIZE (Min)

- A 48" × 48"
- B 48" × 30"
- C 36" × 36"
- D 48" × 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	5,14, 138,210	Var	24	38

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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 2-29-16

NOTES:

1. 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.
2. 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.
3. 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" × 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.
4. All cones used for ramp 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 ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

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

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	25	38

REGISTERED CIVIL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Efthymios Delis — No. C51434 — Exp. 6-30-17 — CIVIL — STATE OF CALIFORNIA

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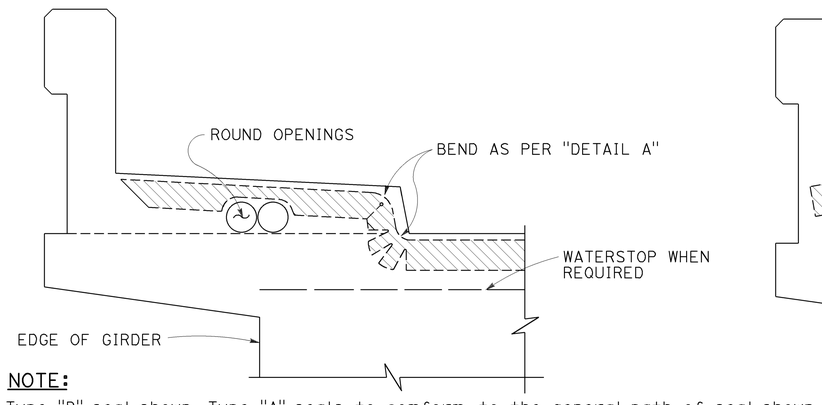
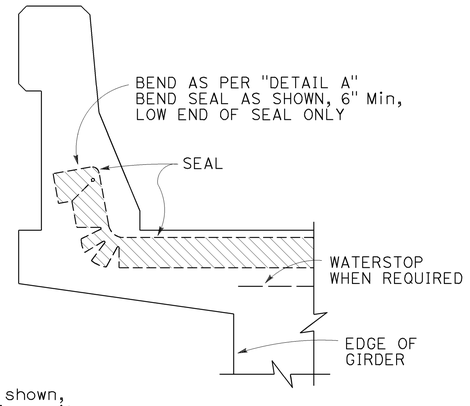
TO ACCOMPANY PLANS DATED 2-29-16

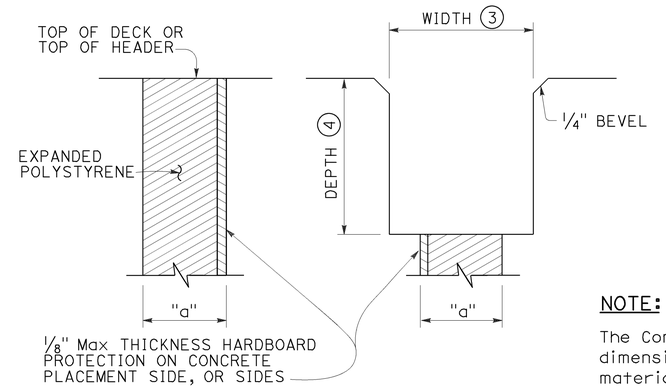




NOTE:
Type "B" seal shown. Type "A" seals to comform to the general path of seal shown, cuts for bending not required. Bend type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK

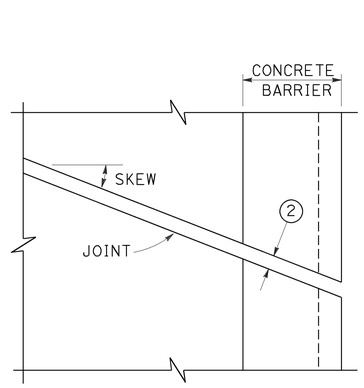
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

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

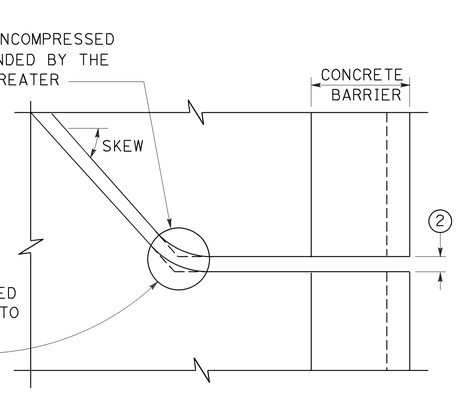
JOINT SEALS DETAILS



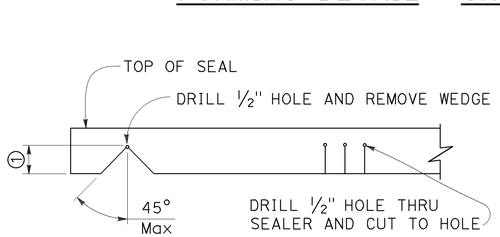
PLAN OF JOINT (SKEW ≤ 20°)

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

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



PLAN OF JOINT (SKEW > 20°)



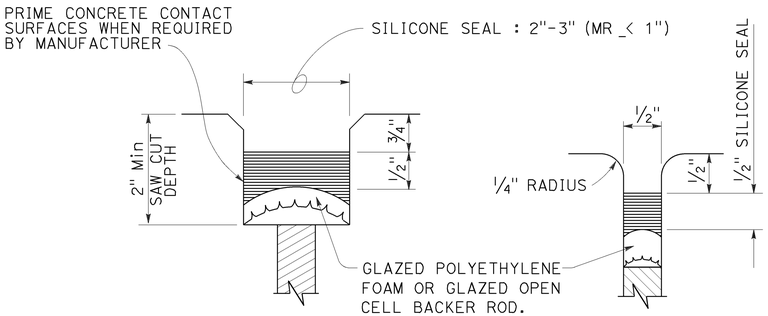
DETAIL A

NOTES:

1. Make smooth cuts from the bottom of seal to 1½" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
2. Opening in barrier to match width of sawn deck joint.
3. Sawcut groove widths shall be as ordered by the Engineer.
4. Depth of sawcut: Type A - Depth to be 2" minimum.
   Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W_2) plus dimensions shown.
5. MR (movement rating) as shown on other plan sheets.
6. Other depths must be approved by the Engineer.
7. A sidewalk joint shall be covered by an expansion joint armor.

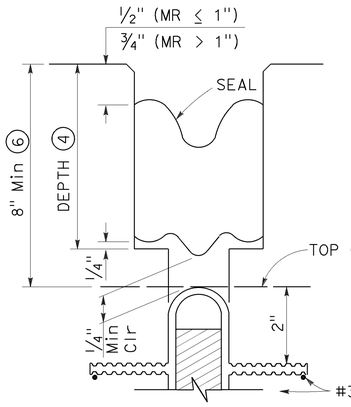
DIMENSIONS "a" OF JOINT REQUIRED

MOVEMENT RATING (MR) (5)	BRIDGE TYPE	"a" DIMENSION		
		DECK CONCRETE PLACED		
		WINTER	FALL-SPRING	SUMMER
2"	ALL EXCEPT CIP/PS	1½"	1¼"	¾"
	CIP/PS	1¼"	1"	½"
1½"	ALL EXCEPT CIP/PS	1¼"	1"	½"
	CIP/PS	1"	¾"	½"
1"	ALL EXCEPT CIP/PS	1"	¾"	½"
	CIP/PS	¾"	½"	½"
½"	ALL EXCEPT CIP/PS	¾"	¾"	½"
	CIP/PS	½"	½"	½"

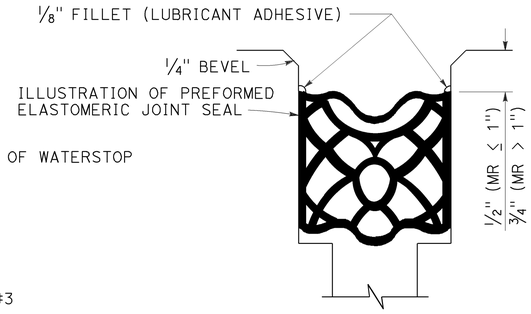


TYPE A SEAL
Movement rating : Silicone = 1" Max

TYPE AL SEAL
Longitudinal joints only



TYPE B JOINT SEAL
IN MINIMUM WIDTH POSITION (W_2)



TYPE B SEAL
Movement Rating ≤ 2"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

NO SCALE

RSP B6-21 DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 20, 2011 - PAGE 283 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP B6-21

2010 REVISED STANDARD PLAN RSP B6-21

8-18-15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	26	38

REGISTERED CIVIL ENGINEER — DATE 01-15-16

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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INDEX TO PLANS

STANDARD PLANS DATED 2010

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

STANDARD PLAN SHEET NO.

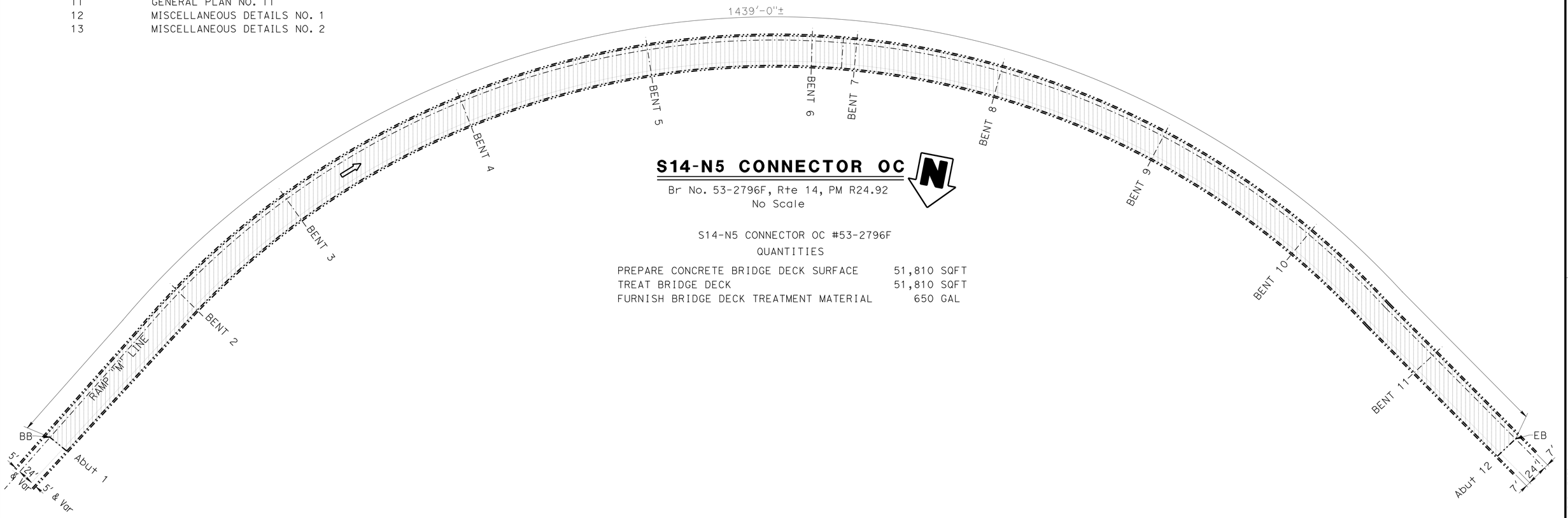
DETAIL NO.

LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.



S14-N5 CONNECTOR OC

Br No. 53-2796F, Rte 14, PM R24.92
No Scale

S14-N5 CONNECTOR OC #53-2796F
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	51,810 SQFT
TREAT BRIDGE DECK	51,810 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	650 GAL

NOTE:
THE CONTRACTOR SHALL 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

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

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Karen Doll	PLANS AND SPECS COMPARED: Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
GENERAL PLAN NO. 1

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: 0715000041 1 CONTRACT NO.: 07-3W0804

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 04-13-15 | 08-18-15 | 09-16-15 | 01-15-16

SHEET 01 OF 13

FILE => 07-3w0801-a-gp01.dgn

USERNAME => s119140 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	27	38

REGISTERED CIVIL ENGINEER — 01-15-16 DATE

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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

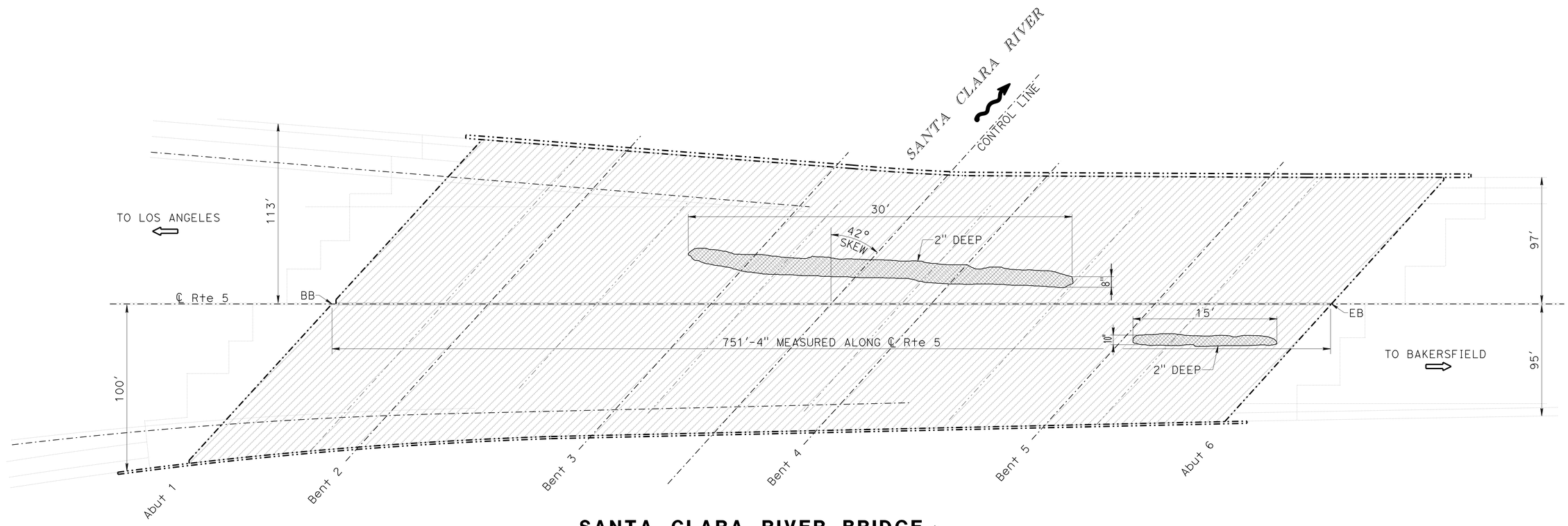
LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

Indicates removal of unsound concrete and place rapid setting concrete patch.



SANTA CLARA RIVER BRIDGE

Br No. 53-2925, Rte 5, PM R53.70
No Scale

SANTA CLARA RIVER BRIDGE #53-2925
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	6 CF
REMOVE UNSOUND CONCRETE	6 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	152,220 SQFT
TREAT BRIDGE DECK	152,220 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,905 GAL

NOTE:

1. For deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

NOTE:
THE CONTRACTOR SHALL 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

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Mazin Ibrahim	Tony Brake			
DETAILS	Clayton Tom	Mazin Ibrahim	LAYOUT	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Tony Brake	SPECIFICATIONS	Karen Doll	PLANS AND SPECS COMPARED Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
GENERAL PLAN NO. 2

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: 0715000041 1 CONTRACT NO.: 07-3W0804

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-13-15	08-18-15	09-16-15	01-15-16	02	13

FILE => 07-3w0801-a-gp02.dgn

USERNAME => s1191140 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	28	38

REGISTERED CIVIL ENGINEER — 01-15-16 DATE

2-29-16
PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

LEGEND:

Indicates existing.

Indicates direction of traffic.

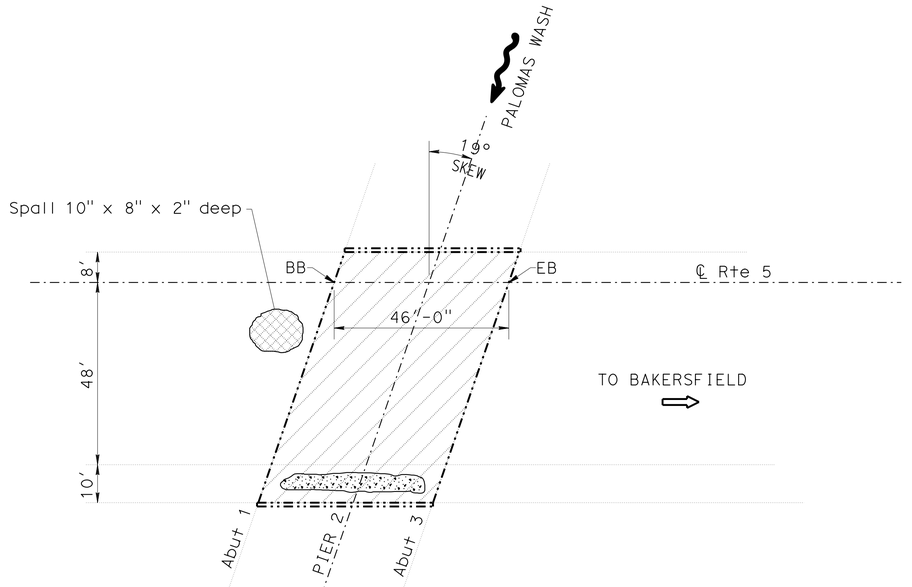
Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

Indicates removal of unsound concrete and place rapid setting concrete patch.

Indicates limits of removal of AC overlay.

NOTE:

1. For deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.



PALOMAS WASH

Br No. 53-0065R, Rte 5, PM R60.52
1" = 20'

PALOMAS WASH BRIDGE #53-0065R
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	1 CF
REMOVE UNSOUND CONCRETE	1 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,050 SQFT
TREAT BRIDGE DECK	3,050 SQFT
TREAT BRIDGE DECK TREATMENT MATERIAL	38 GAL

NOTE:
THE CONTRACTOR SHALL 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 Mazin Ibrahim	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom	CHECKED Mazin Ibrahim		
QUANTITIES	BY Mazin Ibrahim	CHECKED Tony Brake	SPECIFICATIONS	BY Karen Doll	PLANS AND SPECS COMPARED Karen Doll		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
GENERAL PLAN NO. 3

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: 0715000041 1 CONTRACT NO.: 07-3W0804

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-15-15	08-18-15	09-15-15	01-15-16	03	13

FILE => 07-3w0801-a-gp03.dgn

USERNAME => s119140 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	29	38

REGISTERED CIVIL ENGINEER — 01-15-16 DATE

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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LEGEND:

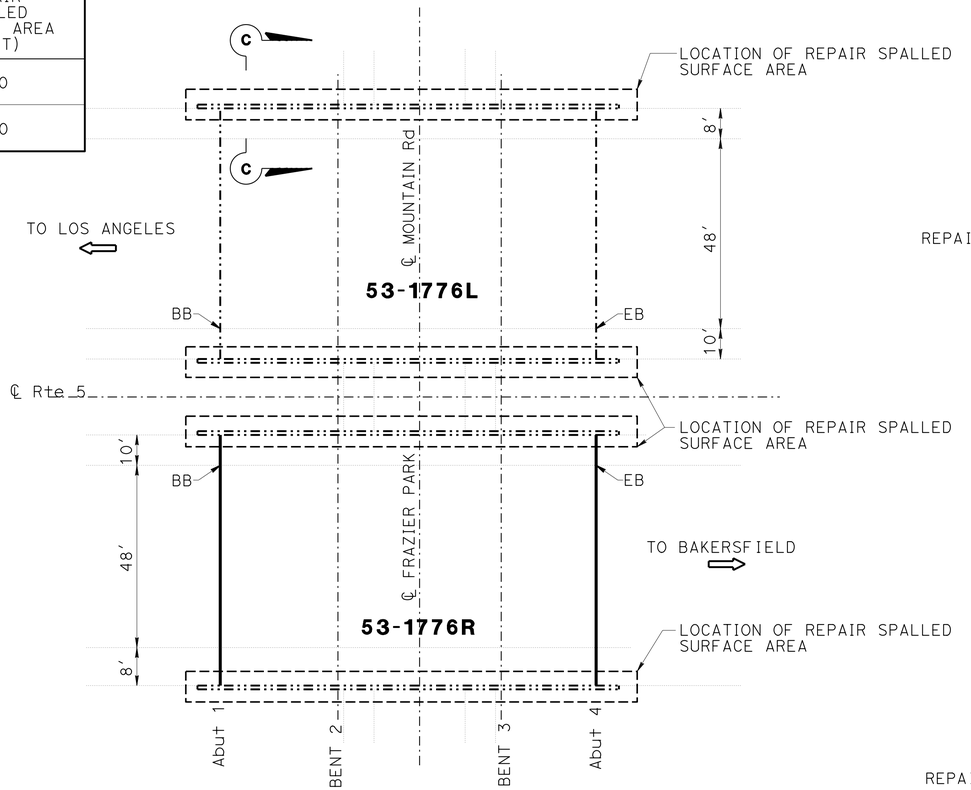
Indicates existing.

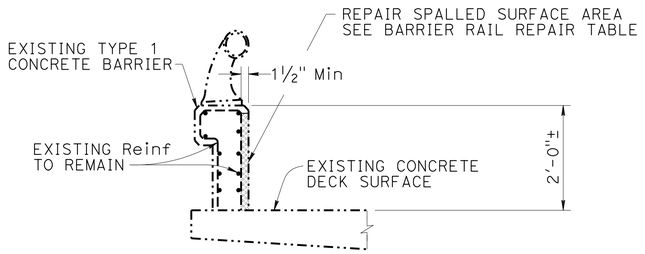
Indicates direction of traffic.

Indicates location of existing joint seal removal and clean expansion joint, placement of new joint seal.

BARRIER RAIL REPAIR TABLE

BRIDGE NAME	BRIDGE NUMBER	BARRIER AREA (SQFT)	APPROX AREA DAMAGED	REPAIR SPALLED SURFACE AREA (SQFT)
FRAZIER MOUNTAIN UC	53-1776L	400	50%	200
FRAZIER MOUNTAIN UC	53-1776R	400	50%	200





SECTION C-C

FRAZIER MOUNTAIN UC #53-1776L
QUANTITIES

REPAIR SPALLED SURFACE AREA	200 SQFT

FRAZIER MOUNTAIN UC #53-1776R
QUANTITIES

REPAIR SPALLED SURFACE AREA	200 SQFT
CLEAN EXPANSION JOINT	134 LF
JOINT SEAL (MR ½")	134 LF

FRAZIER MOUNTAIN UC

Br No. 53-1776L/R, Rte 5, PM R88.56
1" = 20'

NOTE:
THE CONTRACTOR SHALL 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

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Mazin Ibrahim	Tony Brake			
DETAILS	Clayton Tom	Mazin Ibrahim	LAYOUT	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Tony Brake	SPECIFICATIONS	Karen Doll	PLANS AND SPECS COMPARED Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
GENERAL PLAN NO. 4

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: 0715000041 1 CONTRACT NO.: 07-3W0804

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-15-15	08-14-15	09-15-15	01-15-16	04	13

FILE => 07-3w0801-a-gp04.dgn

USERNAME => s119140 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	30	38

REGISTERED CIVIL ENGINEER — 01-15-16 DATE

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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LEGEND:

Indicates existing.

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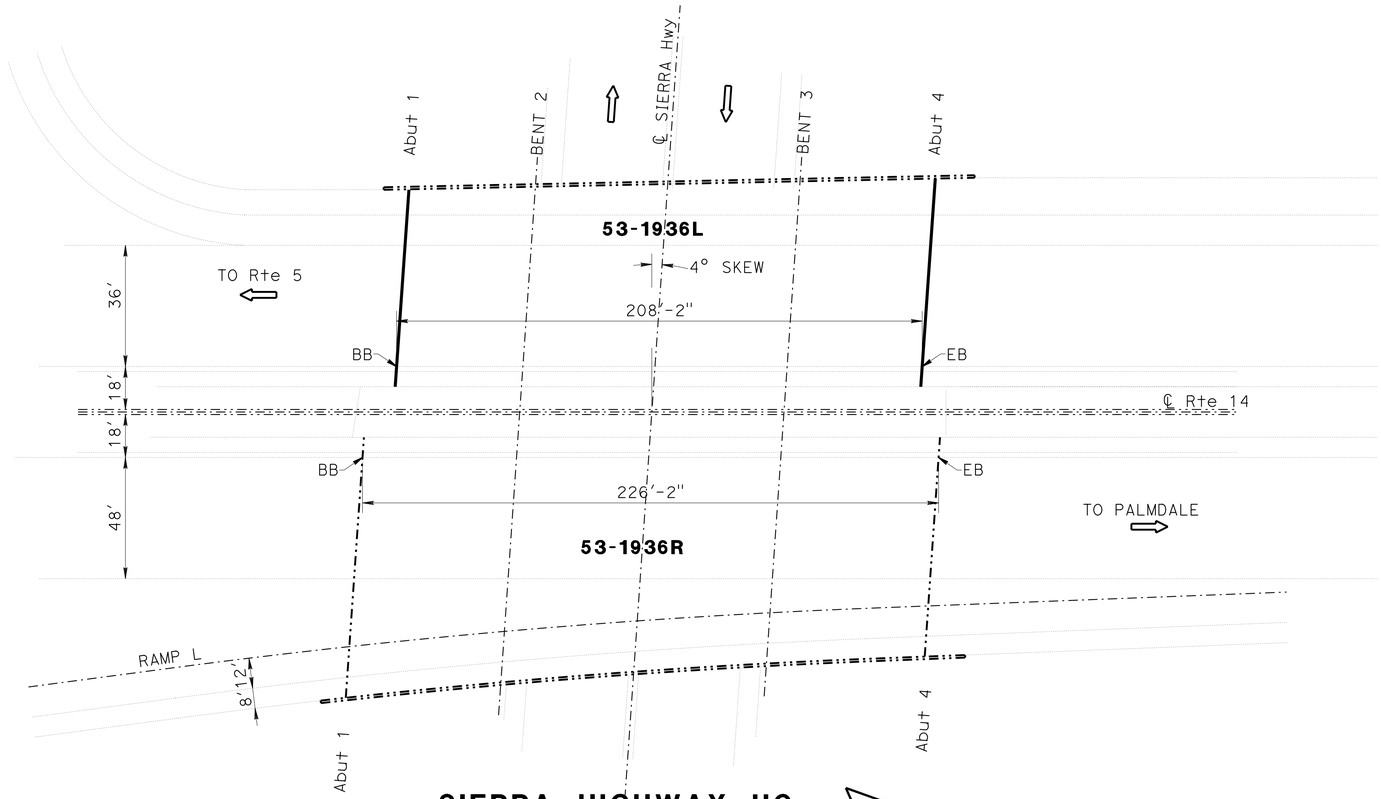

SIERRA HIGHWAY UC

Br No. 53-1936L/R, Rte 14, PM R25.13
1"-30'

SIERRA HIGHWAY UC #53-1936L/R

QUANTITIES

CLEAN EXPANSION JOINT	156 LF
JOINT SEAL (MR 1")	156 LF

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

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Tony Brake
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Tony Brake

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Karen Doll	PLANS AND SPECS COMPARED Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
GENERAL PLAN NO. 5

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: 0715000041 1 CONTRACT NO.: 07-3W0804

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-13-15	08-18-15	09-18-15	01-15-16	05	13

FILE => 07-3w0801-a-gp05.dgn

USERNAME => s113140 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	31	38

REGISTERED CIVIL ENGINEER — 01-15-16 DATE

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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LEGEND:

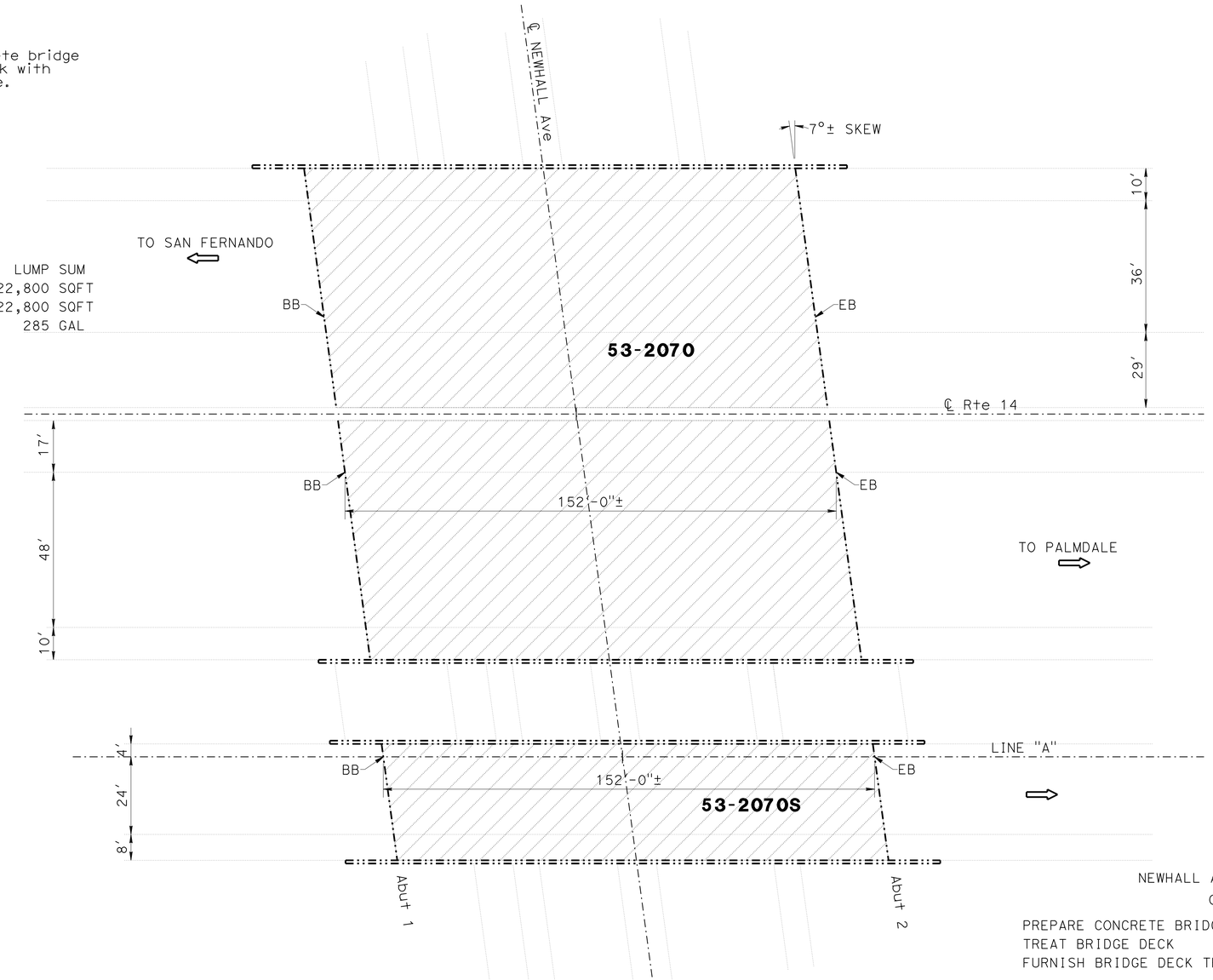
Indicates existing.

Indicates direction of traffic.

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

NEWHALL AVENUE UC #53-2070
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	22,800 SQFT
TREAT BRIDGE DECK	22,800 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	285 GAL



NEWHALL AVENUE UC #53-2070S
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,480 SQFT
TREAT BRIDGE DECK	5,480 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	69 GAL

NEWHALL AVENUE UC

Br No. 53-2070 & 53-2070S, Rte 14, PM R27.04
1" = 20′

NOTE:
THE CONTRACTOR SHALL 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 Mazin Ibrahim	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom	CHECKED Mazin Ibrahim		
QUANTITIES	BY Mazin Ibrahim	CHECKED Tony Brake	SPECIFICATIONS	BY Karen Doll	PLANS AND SPECS COMPARED Karen Doll		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
GENERAL PLAN NO. 6

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: 0715000041 1 CONTRACT NO.: 07-3W0804

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-15-15	08-18-15	09-18-15	01-15-16	06	13

FILE => 07-3w0801-a-gp06.dgn

USERNAME => s1119120 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	32	38

REGISTERED CIVIL ENGINEER — 01-15-16 DATE

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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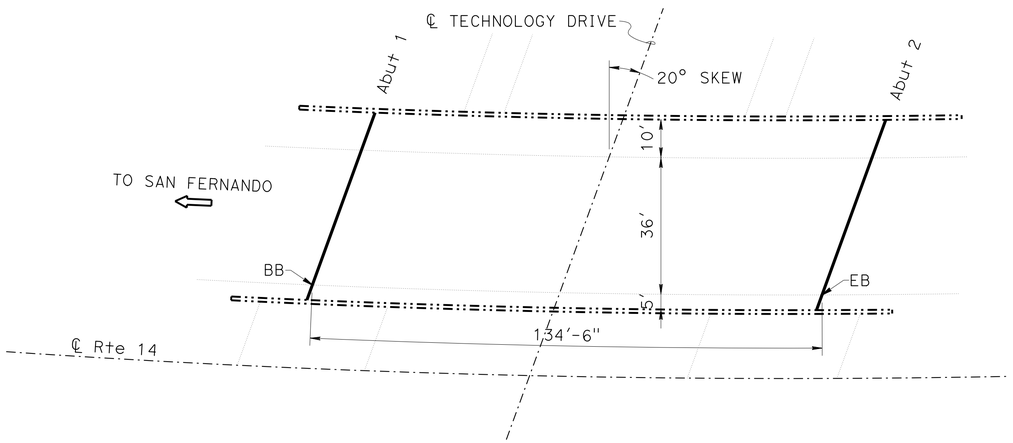
LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates location of existing joint seal removal and clean expansion joint, placement of new joint seal.



TECHNOLOGY DRIVE UC

Br No. 53-2178L, Rte 14, PM R60.70
1" = 20'

TECHNOLOGY DRIVE UC #53-2178L

QUANTITIES

CLEAN EXPANSION JOINT	110 LF
JOINT SEAL (MR 1")	110 LF

NOTE:
THE CONTRACTOR SHALL 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 Mazin Ibrahim	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom	CHECKED Mazin Ibrahim		
QUANTITIES	BY Mazin Ibrahim	CHECKED Tony Brake	SPECIFICATIONS	BY Karen Doll	PLANS AND SPECS COMPARED Karen Doll		

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

UNIT: 3489
PROJECT NUMBER & PHASE: 0715000041 1 CONTRACT NO.: 07-3W0804

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
GENERAL PLAN NO. 7

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-13-15	08-15-15	09-15-15	01-15-16	07	13

FILE => 07-3w0801-a-gp07.dgn

USERNAME => s119140 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	33	38

REGISTERED CIVIL ENGINEER — DATE 01-15-16

2-29-16
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

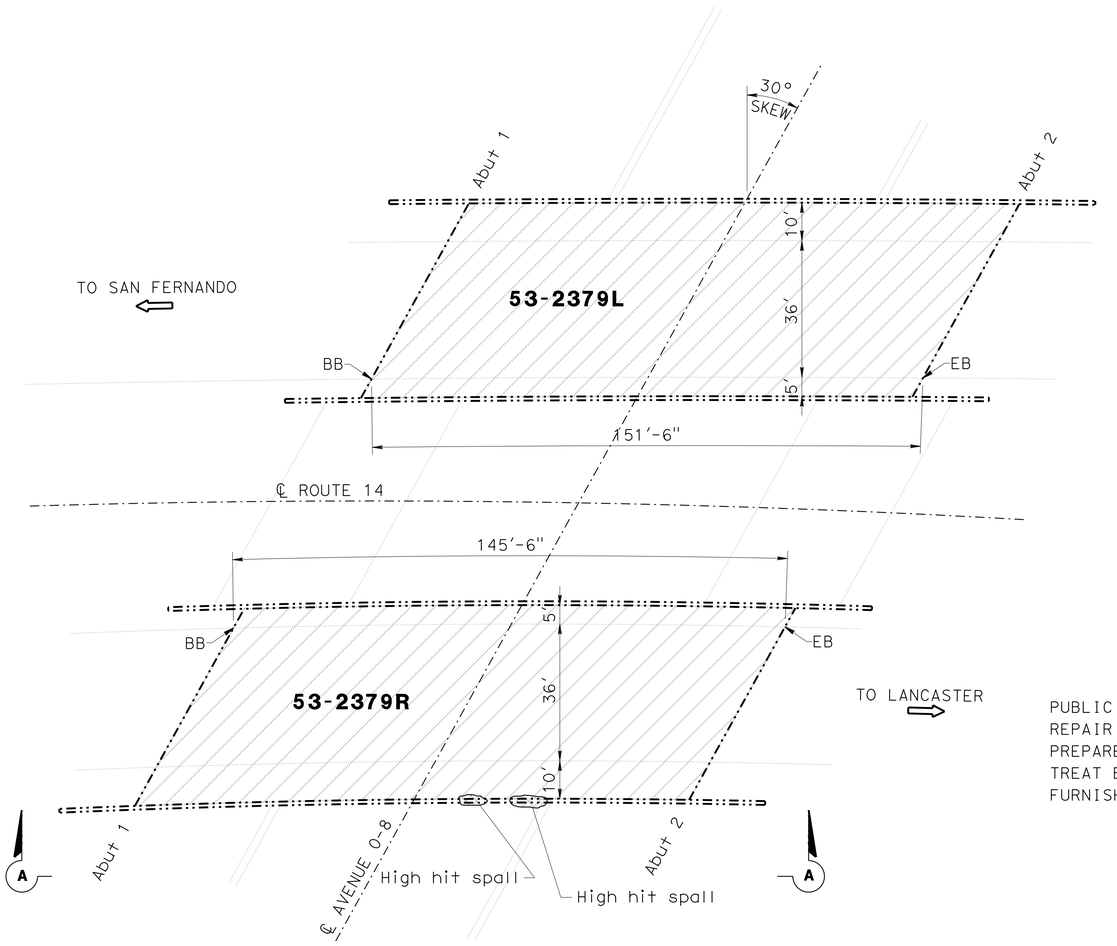
LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

Indicates location of repair spalled surface area.



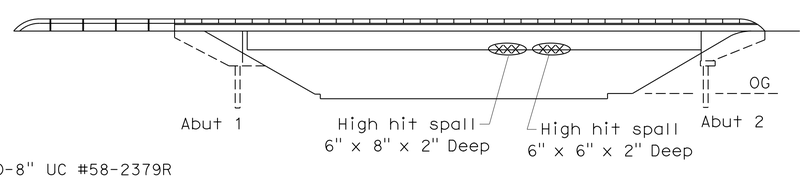
AVENUE "O-8" UC

Br No. 53-2379L/R, Rte 14, PM R62.12
1" = 20'

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

AVENUE "O-8" UC #53-2379L
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	7,750 SQFT
TREAT BRIDGE DECK	7,750 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	97 GAL



AVENUE "O-8" UC #58-2379R
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	1 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	7,450 SQFT
TREAT BRIDGE DECK	7,450 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	93 GAL

VIEW A-A

NOTE:

1. For spalled surface area detail, see "MISCELLANEOUS DETAILS NO. 2" sheet.

TONY D. BRAKE, DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom	CHECKED Mazin Ibrahim
	QUANTITIES	BY Mazin Ibrahim	CHECKED Tony Brake	SPECIFICATIONS	BY Karen Doll	PLANS AND SPECS COMPARED Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
GENERAL PLAN NO. 8

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: 0715000041 1 CONTRACT NO.: 07-3W0804

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-13-15	08-18-15	09-16-15	01-15-16	08	13

FILE => 07-3w0801-a-gp08.dgn

USERNAME => s1191140 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	34	38

REGISTERED CIVIL ENGINEER — 01-15-16 DATE

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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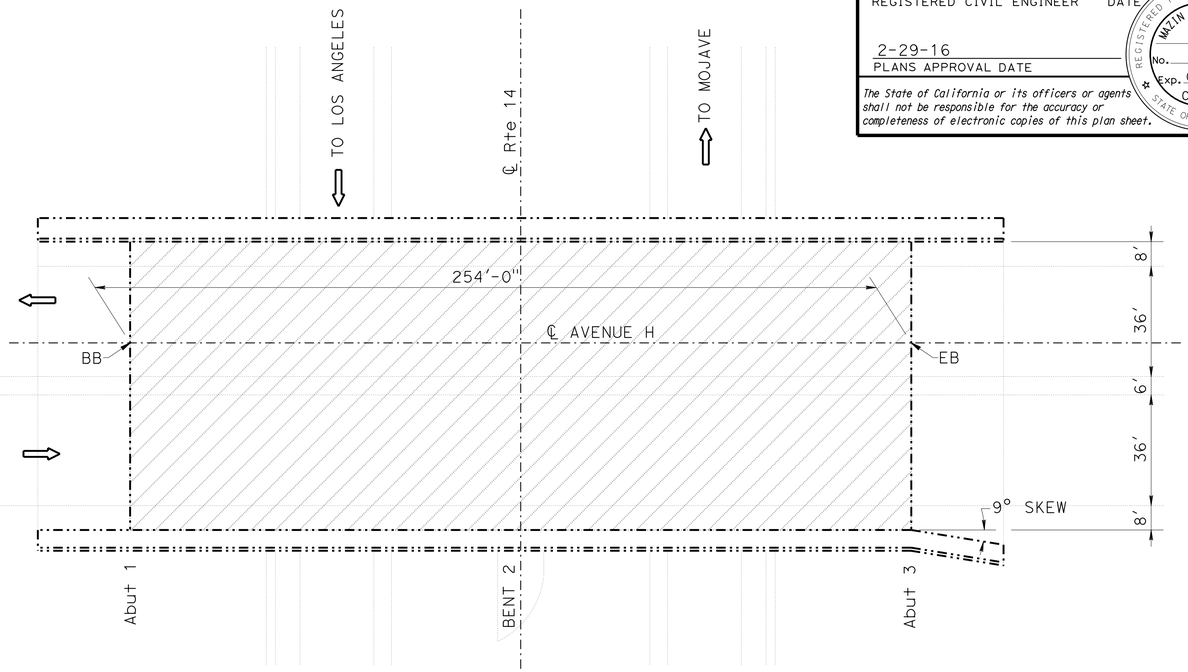
LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

Indicates removal of unsound concrete and place rapid setting concrete patch.



AVENUE "H" OC

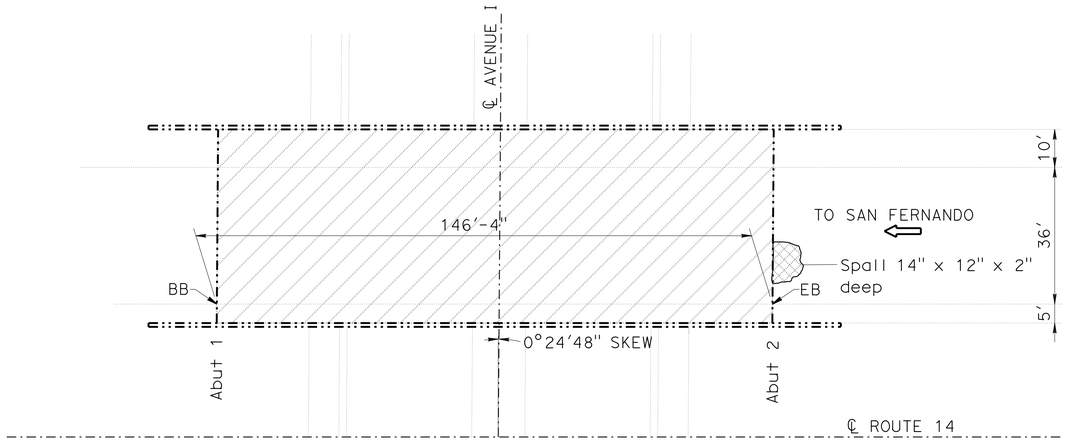
Br No. 53-1862, Rte 14, PM R69.99
No Scale

AVENUE "H" OC #53-1862
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	23,900 SQFT
TREAT BRIDGE DECK	23,900 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	299 GAL

NOTE:

1. For deck damage repair detail, see "MISCELLANEOUS DETAILS NO. 2" sheet.



AVENUE "I" UC

Br No. 53-2386L, Rte 14, PM R68.96
1" = 20'

AVENUE "I" UC #58-2386L
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	1 CF
REMOVE UNSOUND CONCRETE	1 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,500 SQFT
TREAT BRIDGE DECK	7,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	94 GAL

NOTE:
THE CONTRACTOR SHALL 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 Mazin Ibrahim	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom	CHECKED Mazin Ibrahim	
QUANTITIES	BY Mazin Ibrahim	CHECKED Tony Brake	SPECIFICATIONS	BY Karen Doll	PLANS AND SPECS COMPARED Karen Doll	

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

UNIT: 3489
PROJECT NUMBER & PHASE: 0715000041 1 CONTRACT NO.: 07-3W0804

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
GENERAL PLAN NO. 9

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-13-15	08-15-15	09-15-15	01-15-16	09	13

FILE => 07-3w0801-a-gp09.dgn

USERNAME => s1119140 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	35	38

REGISTERED CIVIL ENGINEER — DATE 01-15-16

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

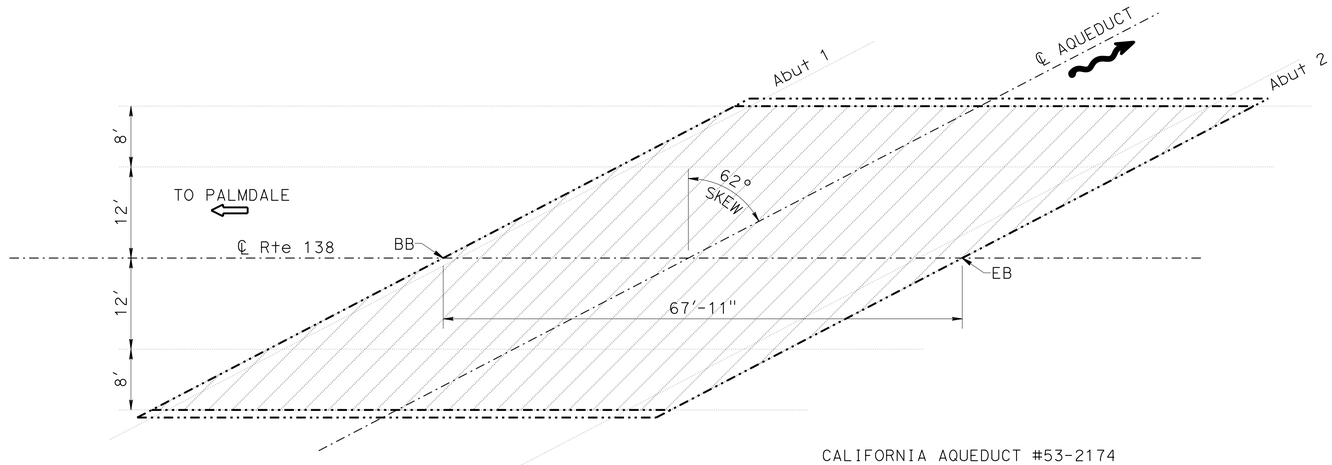
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

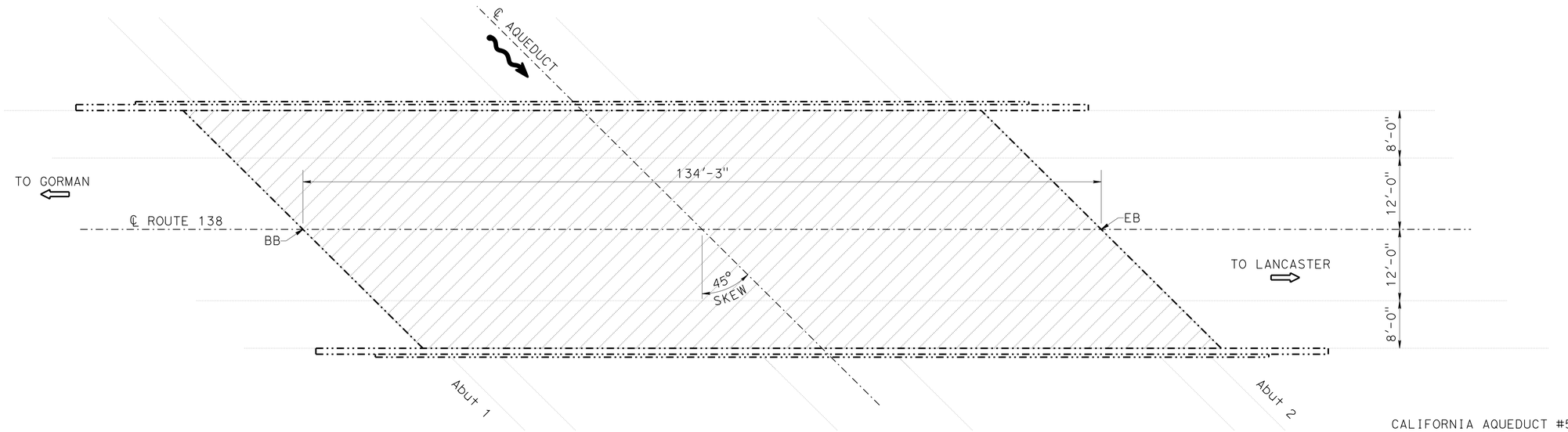


CALIFORNIA AQUEDUCT

Br No. 53-2174, Rte 138, PM 70.28
1" = 10'

CALIFORNIA AQUEDUCT #53-2174
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	2,720 SQFT
TREAT BRIDGE DECK	2,720 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	34 GAL



CALIFORNIA AQUEDUCT

Br No. 53-2047, Rte 138, PM 14.60
1" = 10'

CALIFORNIA AQUEDUCT #53-2047
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	5,370 SQFT
TREAT BRIDGE DECK	5,370 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	68 GAL

NOTE:
THE CONTRACTOR SHALL 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

	BY	CHECKED
DESIGN	Mazin Ibrahim	Tony Brake
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Tony Brake

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Karen Doll	PLANS AND SPECS COMPARED Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
GENERAL PLAN NO. 10

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: 0715000041 1 CONTRACT NO.: 07-3W0804

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-13-15	08-18-15	09-18-15	01-15-16	10	13

FILE => 07-3w0801-a-gp10.dgn

USERNAME => s119140 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	36	38

REGISTERED CIVIL ENGINEER — 01-15-16 DATE

2-29-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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LEGEND:

Indicates existing.

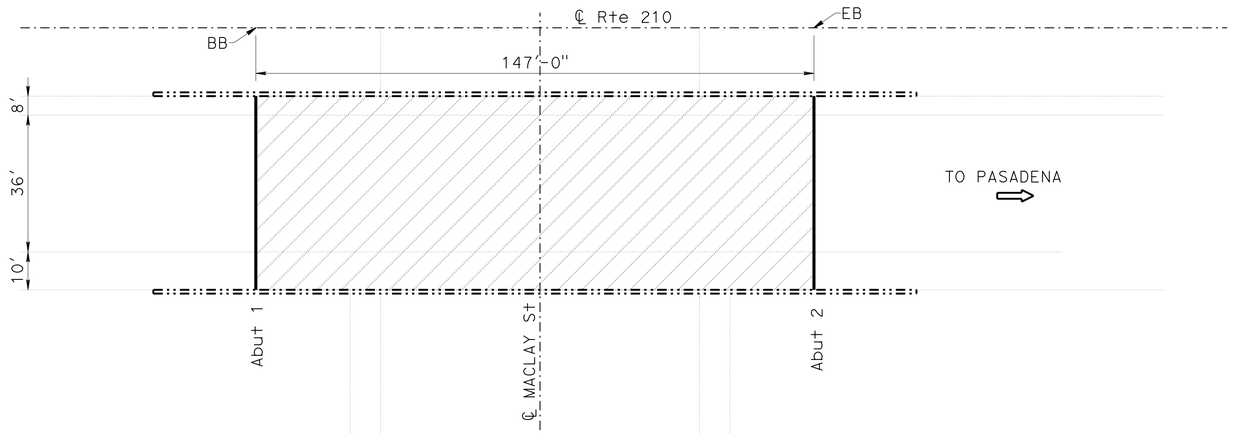
Indicates direction of traffic.

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

Indicates location of existing joint seal removal and clean expansion joint, placement of new joint seal.

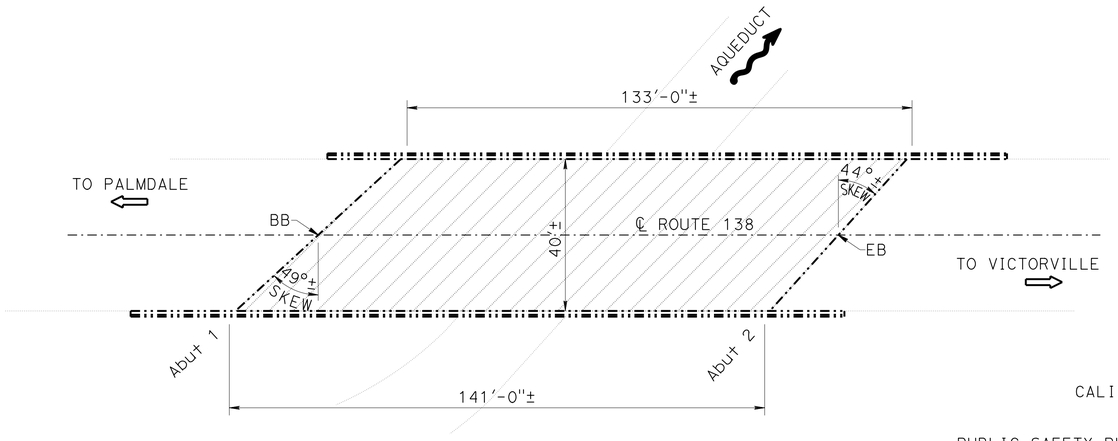
MACLAY STREET UC #58-1898R
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	7,940 SQFT
TREAT BRIDGE DECK	7,940 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	100 GAL
CLEAN EXPANSION JOINT	110 LF
JOINT SEAL (MR ½")	110 LF



MACLAY STREET UC

Br No. 53-1898R, Rte 210, PM R4.94
1" = 20'



CALIFORNIA AQUEDUCT

Br No. 53-2098, Rte 138, PM 56.06
1" = 20'

CALIFORNIA AQUEDUCT #53-2098
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	5,480 SQFT
TREAT BRIDGE DECK	5,480 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	69 GAL

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Tony Brake
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Tony Brake

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Mazin Ibrahim
SPECIFICATIONS	Karen Doll	Karen Doll

PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
GENERAL PLAN NO. 11

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: 0715000041 1 CONTRACT NO.: 07-3W0804

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-15-15	08-14-15	09-15-15	01-15-16	11	13

FILE => 07-3w0801-a-gp11.dgn

USERNAME => s1119120 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	37	38

REGISTERED CIVIL ENGINEER — 01-15-16 DATE

2-29-16
PLANS APPROVAL DATE

MAZIN S. IBRAHIM — REGISTERED PROFESSIONAL ENGINEER — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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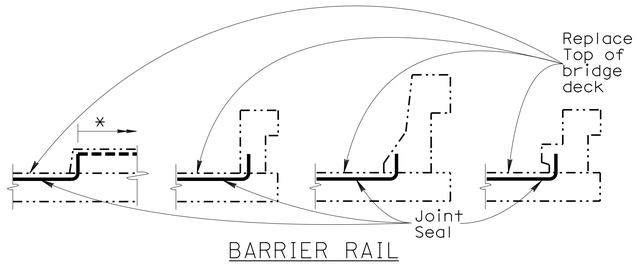
JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION		MINIMUM "MR" (INCHES)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX JOINT LENGTH (LF)	LENGTH TO CLEAN EXP JOINT (LF)
Sierra Highway UC	53-1936	Abut 1	PN	1	No	8	78	78
		Abut 4	PN	1	No	8	78	78
Technology Drive UC	53-2178L	Abut 1	PN	½	No	6	55	55
		Abut 2	PN	½	No	6	55	55
Maclay street UC	53-1898R	Abut 1	PN	½	No	6	54	54
		Abut 2	PN	½	No	6	54	54
Frazier Mountain UC	53-1776R	Abut 1	PN	½	No	6	67	67
		Abut 4	PN	½	No	6	67	67



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Details shown for illustration purposes only.
For use only where deck joint matches the sidewalk, curb or barrier rail joint.
* Extension of joint will be determined by the Engineer if necessary.

NOTES:

The following notes apply to JOINT SEAL TYPE A:

Install Joint Seal (MR = ½") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see Standard Plan B6-21.

The following notes apply to JOINT SEAL TYPE B:

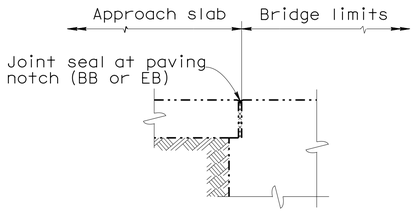
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

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

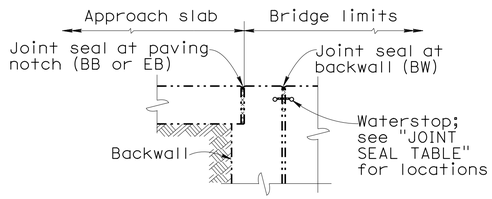
3) W1 shall be the smaller of the values determined as follows:
   A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
   B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.

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

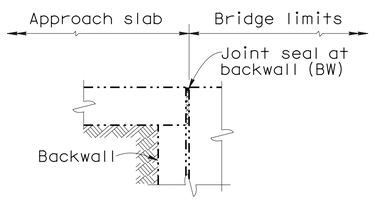
For details not shown see RSP B6-21.



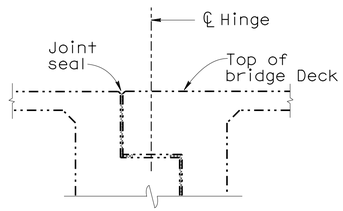
DIAPHRAGM ABUTMENT



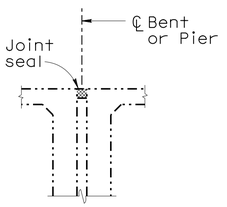
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

NOTE:
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JOINT SEAL LOCATION

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

DESIGN	BY Mazin Ibrahim	CHECKED Tony Brake	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN
QUANTITIES	BY Mazin Ibrahim	CHECKED Tony Brake	BRIDGE NO. Various / POST MILE Varies

ROUTES 5,14,138,210 BRIDGES
MISCELLANEOUS DETAILS NO. 1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0715000041 1 CONTRACT NO.: 07-3W0804

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-13-15	08-18-15	09-18-15	01-15-16	12	13

FILE => 07-3w0801-u-miscat01.dgn

DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46
USERNAME => s119140

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14, 138,210	Var	38	38

REGISTERED CIVIL ENGINEER — 01-15-16 DATE

2-29-16
PLANS APPROVAL DATE

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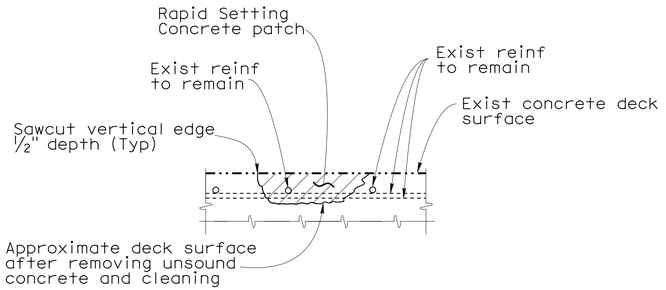
REGISTERED PROFESSIONAL ENGINEER — MAZIN S. IBRAHIM — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

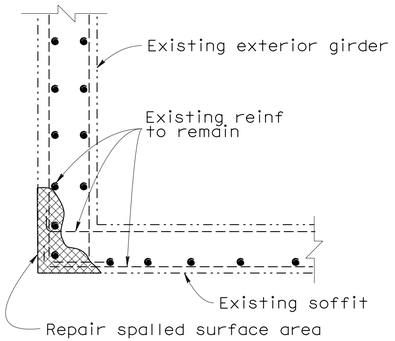
DECK REPAIR NOTES:

1. Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
2. It is responsibility of the Contractor to repair any reinforcement that is accidently 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. The saw cut depth shall not exceed ¾ inch or the concrete cover over 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.



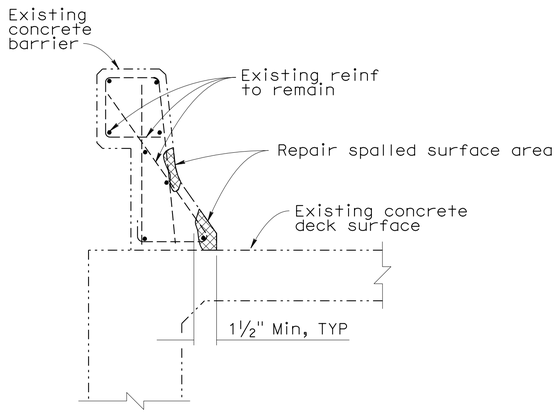
DECK DAMAGE REPAIR DETAIL

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



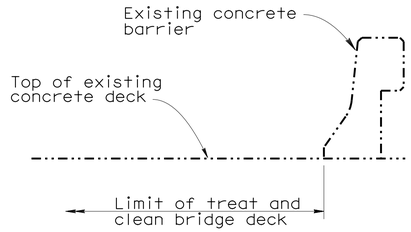
SPALLED SURFACE AREA DETAIL

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

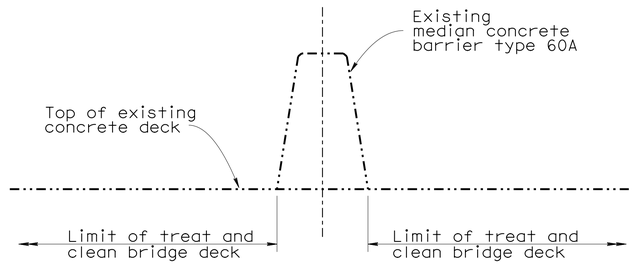


CONCRETE BARRIER SPALL REPAIR DETAIL

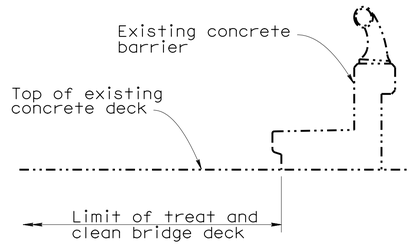
Location will be determined by the Engineer.
Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



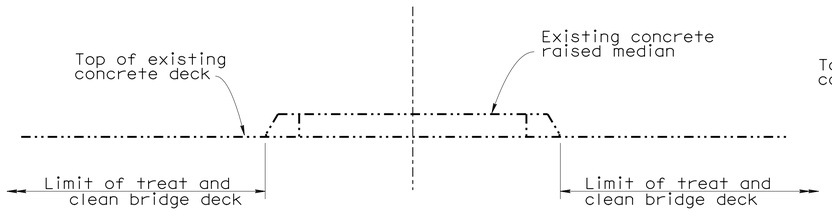
EOD BARRIER



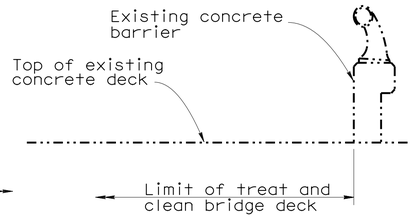
MEDIAN BARRIER



SIDEWALK BARRIER TYPE 2



RAISED MEDIAN



SIDEWALK BARRIER TYPE 1

TYPICAL LIMITS OF DECK WORK

NO SCALE

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

	BY	CHECKED
DESIGN	Mazin Ibrahim	Tony Brake
DETAILS	Clayton Tom	Mazin Ibrahim
QUANTITIES	Mazin Ibrahim	Tony Brake

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	ROUTES 5,14,138,210 BRIDGES
Various	
POST MILE	MISCELLANEOUS DETAILS NO. 2
Varies	

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0715000041 1 CONTRACT NO.: 07-3W0804

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
04-15-15	08-15-15	09-15-15	01-15-16	13	13

FILE => 07-3w0801-u-miscdt02.dgn

USERNAME => s119140 DATE PLOTTED => 04-MAR-2016 TIME PLOTTED => 12:46