INDEX OF PLANS

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15-23	REVISED STANDARD PLANS

STRUCTURE PLANS

24-38	ROUTES 101, 118, 170 AND 405 BRIDGES

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

STATE OF CALIFORNIA

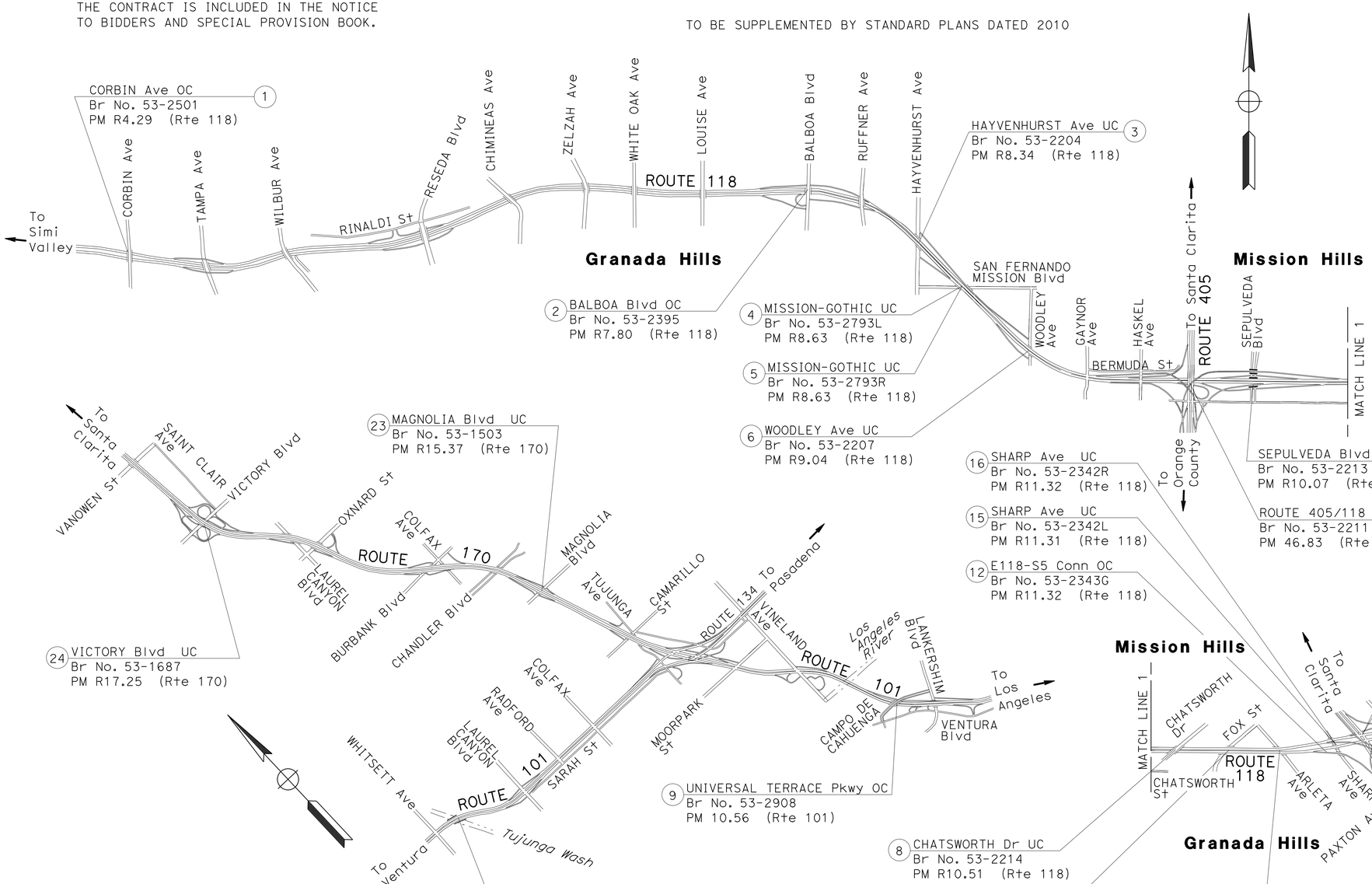
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN LOS ANGELES COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	1	38



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

NO SCALE

PROJECT MANAGER: CHRISTIAN SAM

DESIGN MANAGER: HAMID SAADATNEJADI

Kevin Kwan 2-10-16

PROJECT ENGINEER DATE

REGISTERED CIVIL ENGINEER

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

February 22, 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.	07-3W0604
PROJECT ID	0715000039

LAST REVISION 02-22-16

DATE PLOTTED => 23-FEB-2016
TIME PLOTTED => 09:18

BORDER LAST REVISED 10/4/2013 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s125624 DGN FILE => 73w060ab001.dgn | UNIT 1964 | PROJECT NUMBER & PHASE 07150000391

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	2	38

2-10-16
REGISTERED CIVIL ENGINEER DATE

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

2-22-16
PLANS APPROVAL DATE

NOTES:

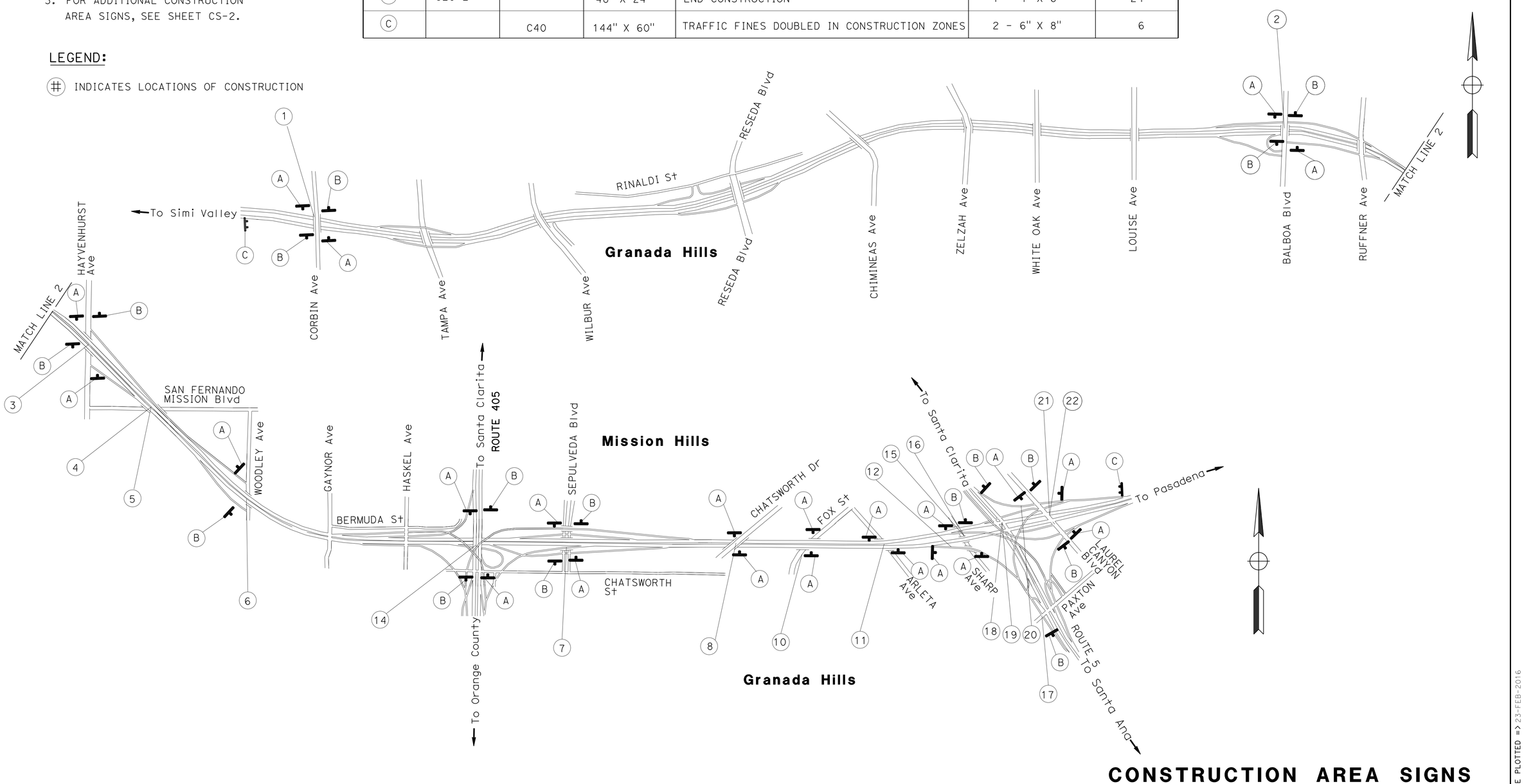
1. EXACT LOCATION AND POSITION OF SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. C40 SIGNS TO BE PLACED 500 FEET IN ADVANCE OF W20-1 SIGNS OR AS DETERMINED BY THE ENGINEER.
3. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE SHEET CS-2.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN (X) No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
(A)	W20-1		48" X 48"	ROAD WORK AHEAD	1 - 6" X 6"	31
(B)	G20-2		48" X 24"	END CONSTRUCTION	1 - 4" X 6"	24
(C)		C40	144" X 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" X 8"	6

LEGEND:

(#) INDICATES LOCATIONS OF CONSTRUCTION



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: KEVIN KWAN
CALCULATED-DESIGNED BY: AMBACHEW YIRGU
CHECKED BY: KEVIN KWAN
REVISED BY
DATE REVISED

LAST REVISION 02-22-16
DATE PLOTTED => 23-FEB-2016
TIME PLOTTED => 09:19

BORDER LAST REVISED 7/2/2010
USERNAME => s125624
DGN FILE => 73w060lq001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1964
PROJECT NUMBER & PHASE 07150004391

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	3	38

2-10-16
REGISTERED CIVIL ENGINEER DATE

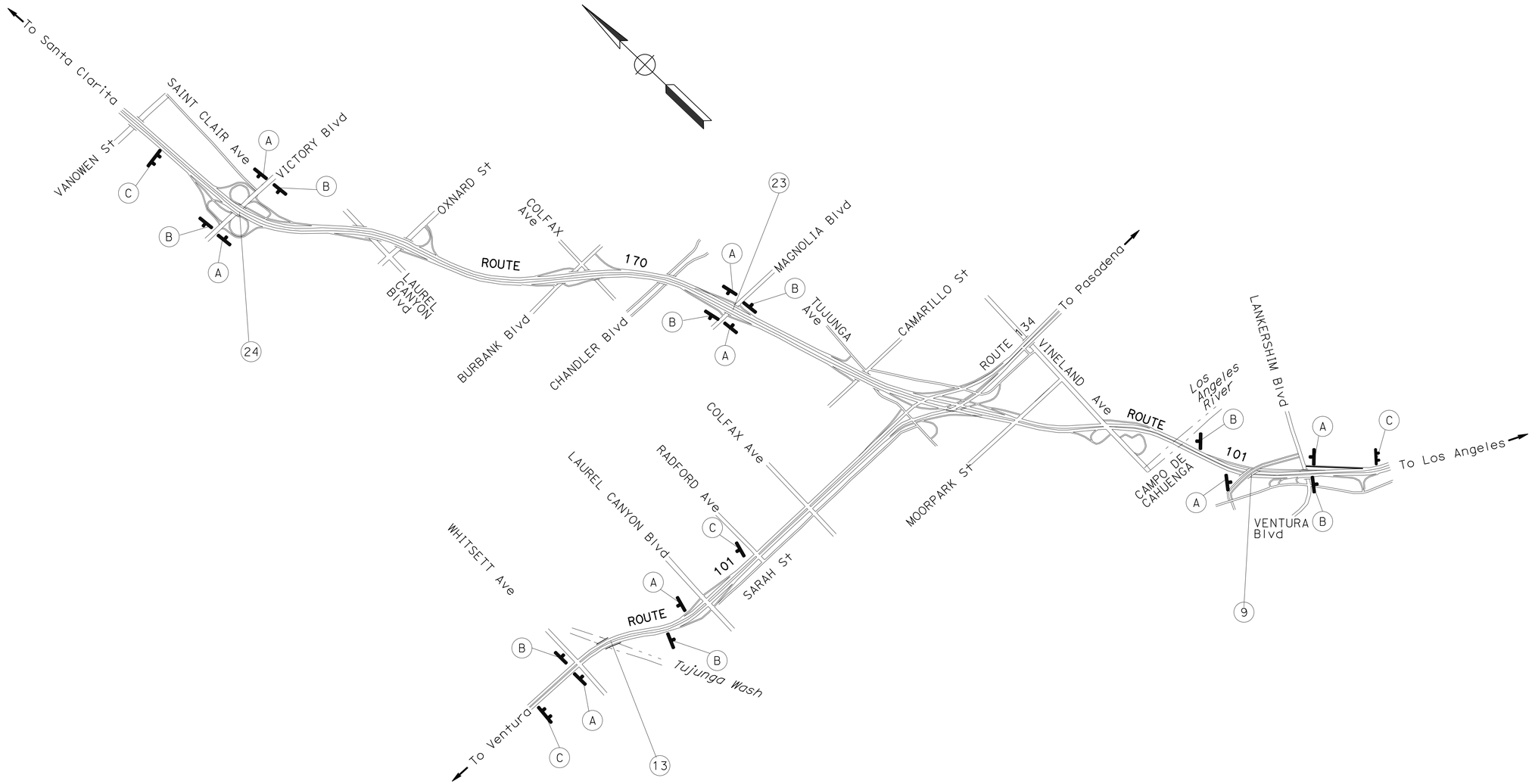
KEVIN KWAN No. C68219 Exp. 9-30-17 CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

2-22-16
PLANS APPROVAL DATE

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

NOTE:

1. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE SHEET CS-1.



CONSTRUCTION AREA SIGNS
NO SCALE

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CALCULATED- DESIGNED BY	
CHECKED BY	
REVISED BY	AMBACHEW YIRGU
DATE REVISED	KEVIN KWAN
FUNCTIONAL SUPERVISOR	KEVIN KWAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 02-22-16
DATE PLOTTED => 23-FEB-2016
TIME PLOTTED => 09:19

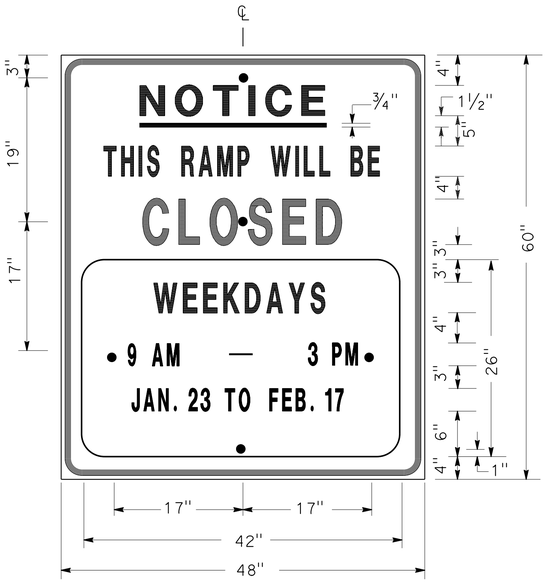
BORDER LAST REVISED 7/2/2010
USERNAME => s125624
DGN FILE => 73w060la002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1964
PROJECT NUMBER & PHASE 07150004391

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	4	38

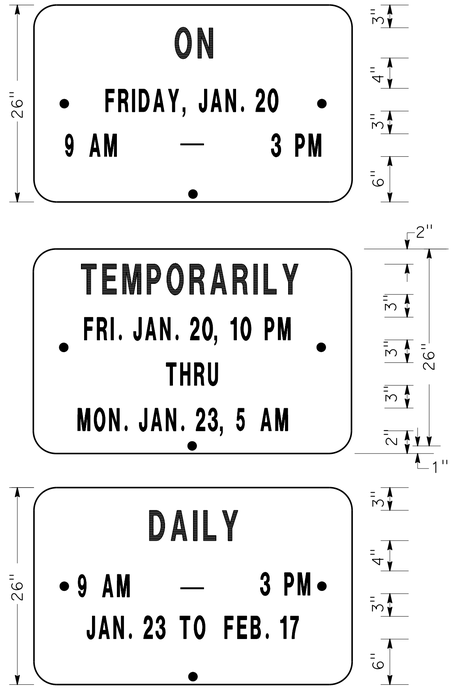
REGISTERED CIVIL ENGINEER — 2-3-16 DATE

JOCELYN C CHIANG No. 62742 Exp 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-22-16
PLANS APPROVAL DATE



SIGN SP-1



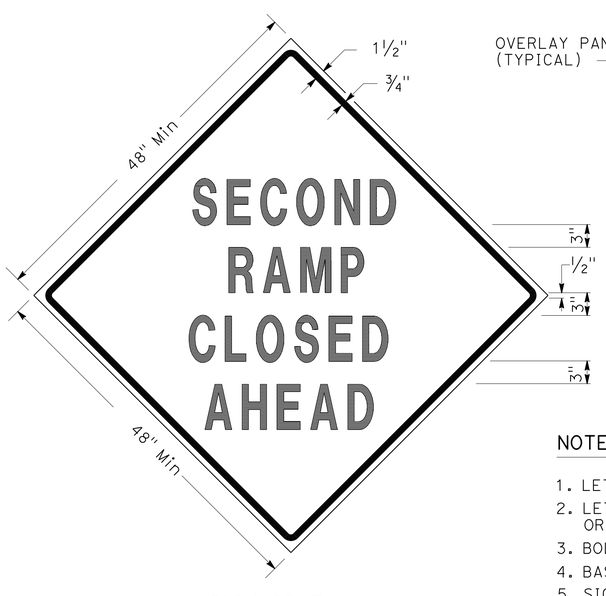
ALTERNATE OVERLAY PANELS (TYPICAL)

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 RADIUS
			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

SIGN SP-4

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

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DTM — Caltrans®

LAST REVISION: DATE PLOTTED => 23-FEB-2016 02-22-16 TIME PLOTTED => 09:19

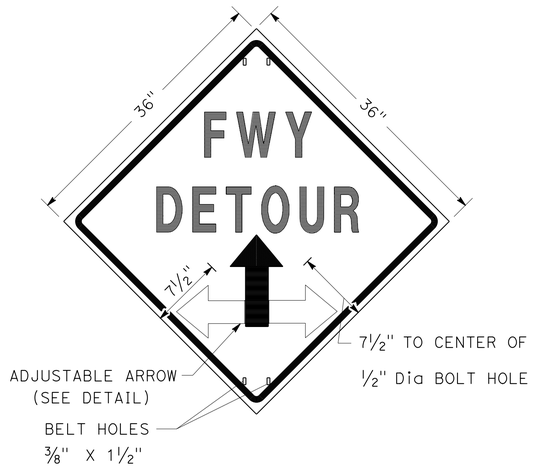
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	5	38

REGISTERED CIVIL ENGINEER — 2-3-16 DATE

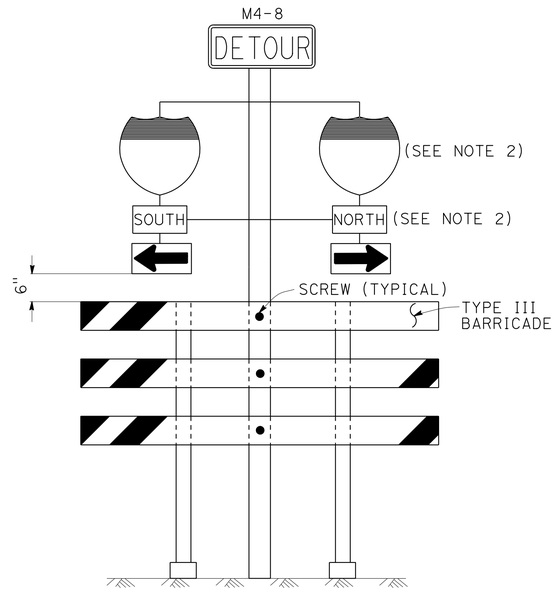
2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOCELYN C CHIANG
No. 62742
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

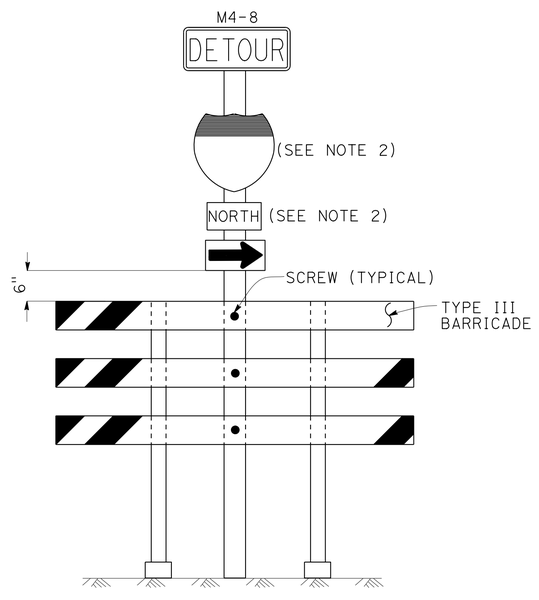
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SIGN SP-2



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

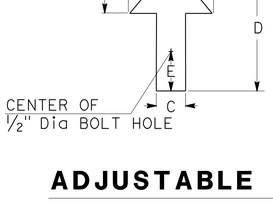
NOTES: SIGN SP-2

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
DTM
Caltrans®

FUNCTIONAL SUPERVISOR: ALBERT K. YU

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
ALBERT K YU	JOCELYN C CHIANG	JC	2/14

LAST REVISION: DATE PLOTTED => 23-FEB-2016 02-22-16 TIME PLOTTED => 09:19

BORDER LAST REVISED 7/2/2010 | USERNAME => s125624 DGN FILE => 73w060me002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1863 | PROJECT NUMBER & PHASE 07150000391

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	6	38

REGISTERED CIVIL ENGINEER — DATE 2-3-16

JOCELYN C CHIANG No. 62742 Exp 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-22-16
PLANS APPROVAL DATE

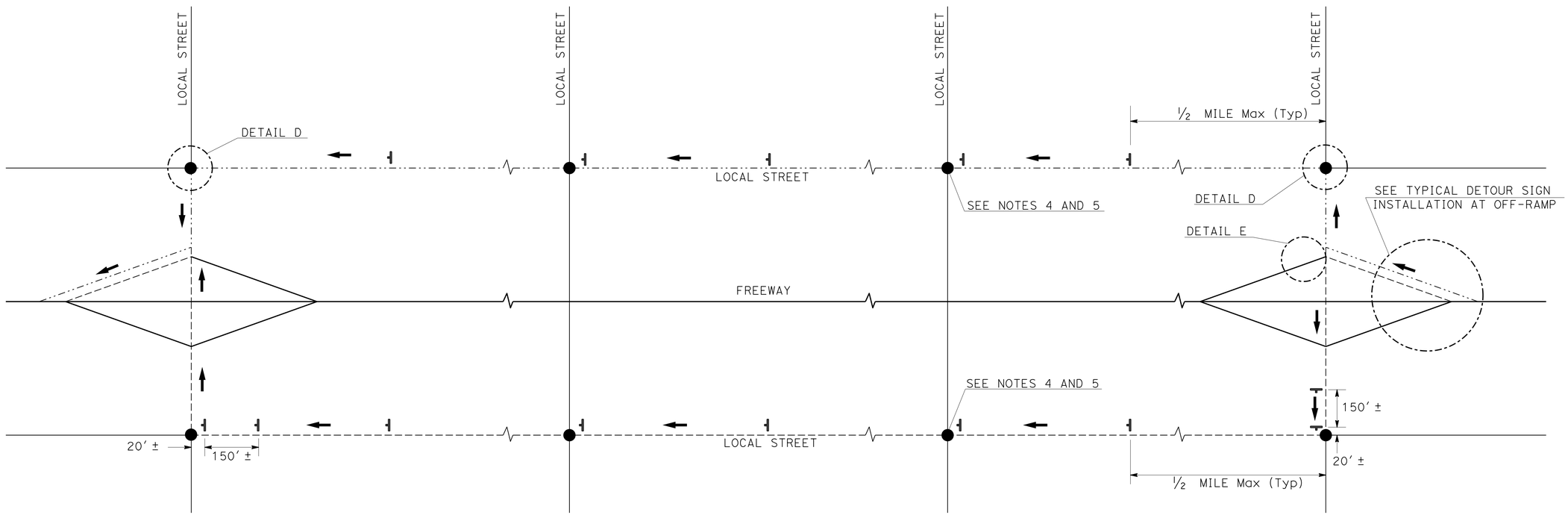
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

- 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 2

NO SCALE

THD-3

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

LAST REVISION: DATE PLOTTED => 23-FEB-2016, TIME PLOTTED => 09:19, 02-22-16

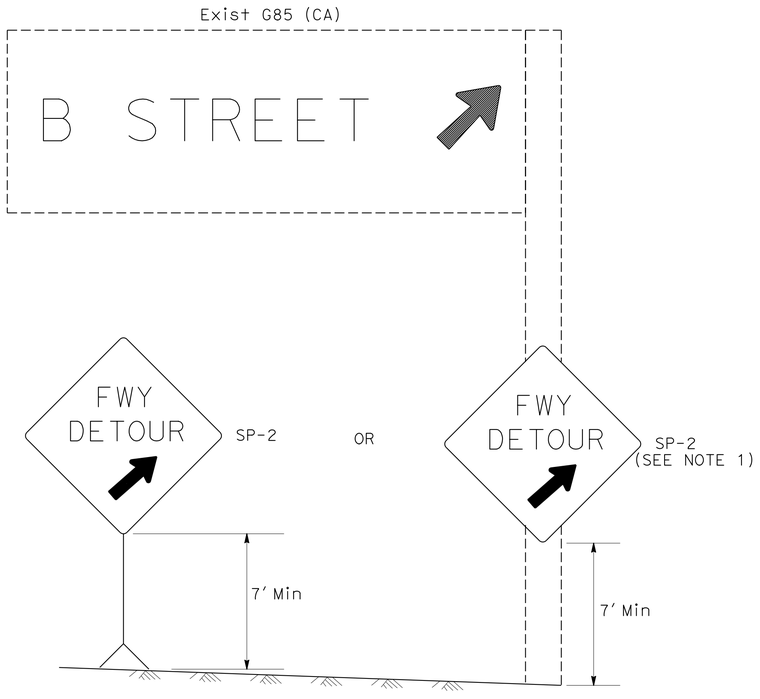
BORDER LAST REVISED 7/2/2010 | USERNAME => s125624 | DGN FILE => 73w060me003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1863 | PROJECT NUMBER & PHASE 07150000391

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	7	38

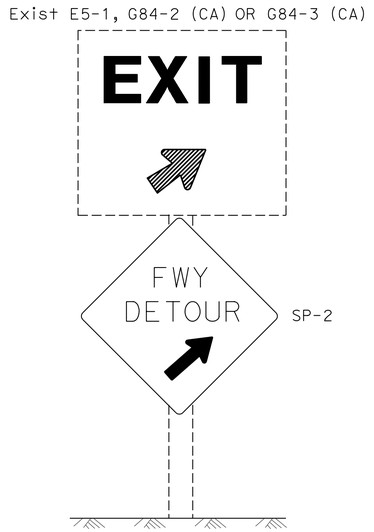
2-3-16
REGISTERED CIVIL ENGINEER DATE

JOCELYN C CHIANG
No. 62742
Exp. 6-30-16
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

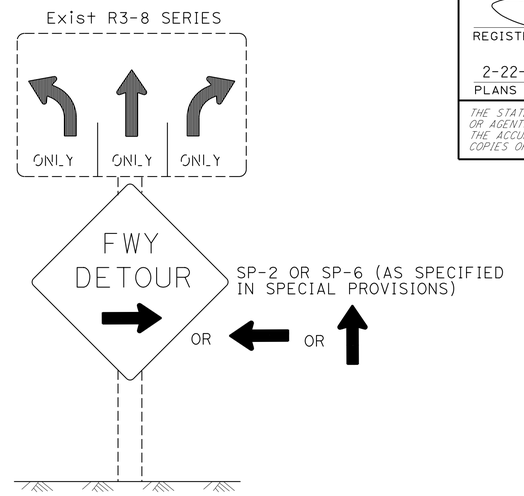
2-22-16
PLANS APPROVAL DATE



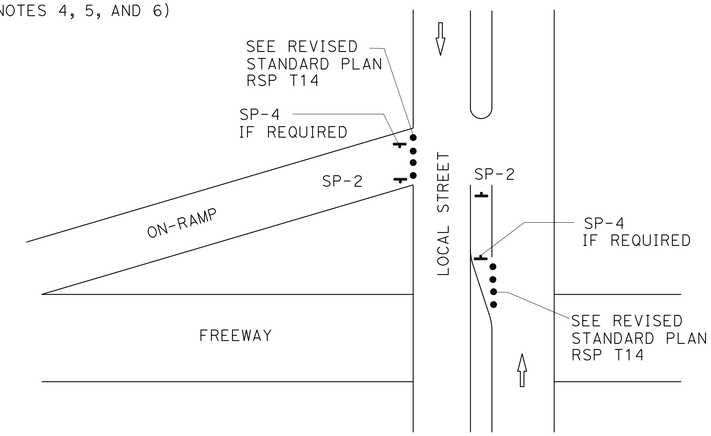
DETAIL A (SEE NOTE 3)



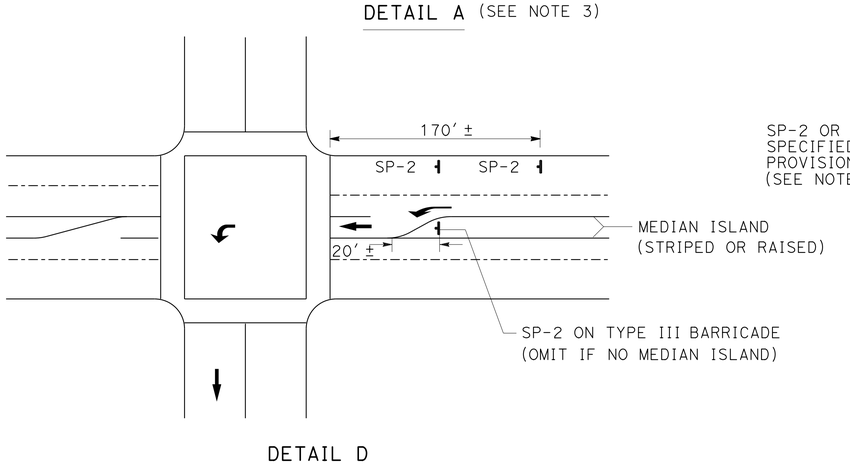
DETAIL B (SEE NOTE 3)



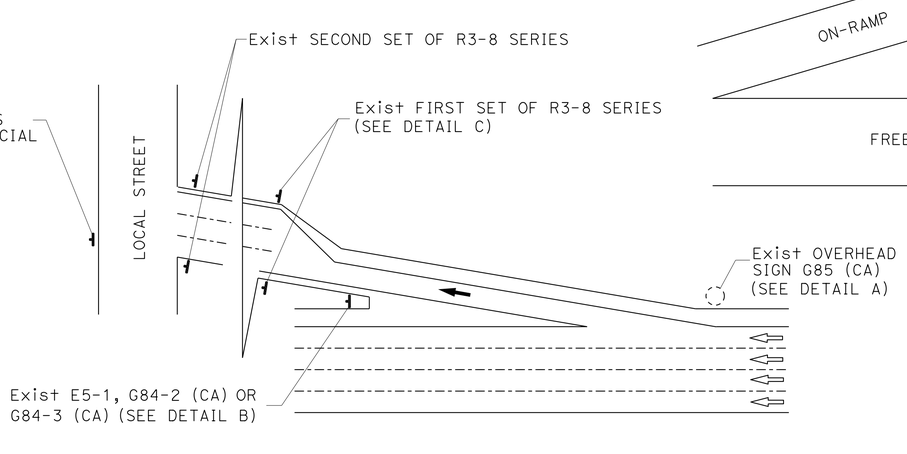
DETAIL C (SEE NOTES 4, 5, AND 6)



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 2

NO SCALE

THD-4

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

LAST REVISION DATE PLOTTED => 23-FEB-2016
TIME PLOTTED => 09:19
02-22-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	8	38

REGISTERED CIVIL ENGINEER — DATE 2-3-16

JOCELYN C CHIANG No. 62742 Exp 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PLANS APPROVAL DATE 2-22-16

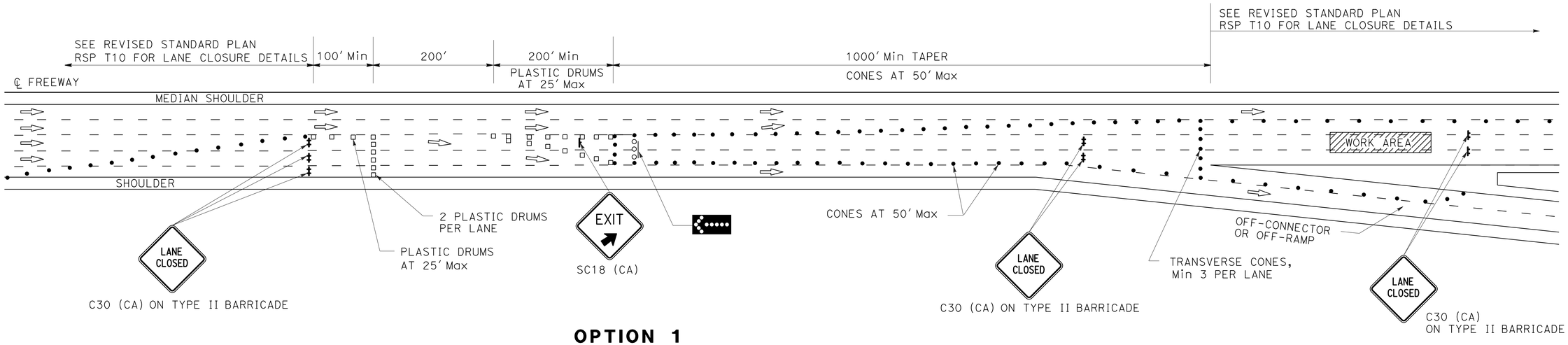
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

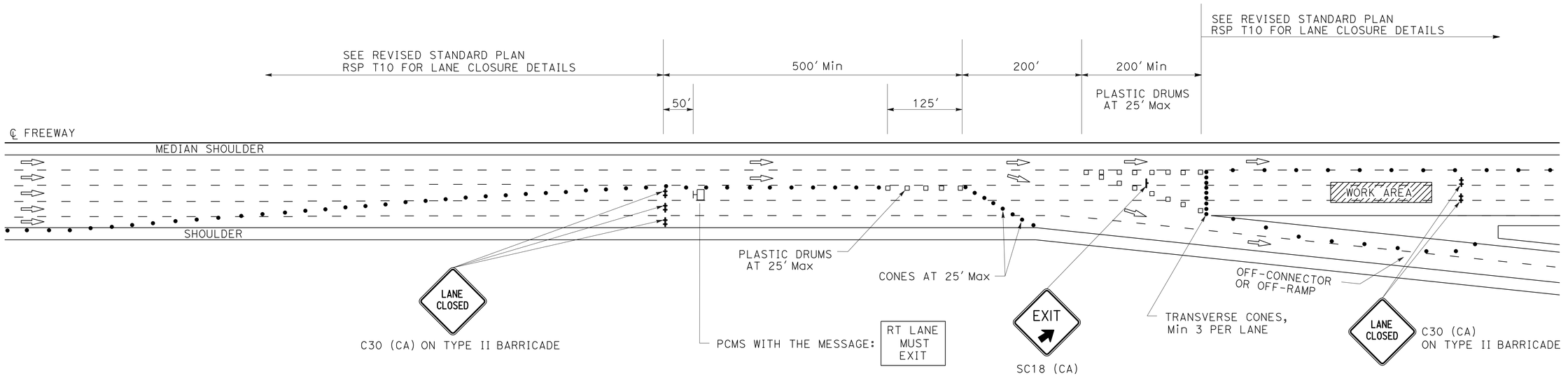
- TRAFFIC CONE
- TRAFFIC PLASTIC DRUM
- TEMPORARY TRAFFIC CONTROL SIGN
- BARRICADES
- PCMS
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER

ABBREVIATIONS

(CA) CALIFORNIA CODE



OPTION 1



OPTION 2

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR SLIP-RAMP AT OFF-CONNECTOR OR OFF-RAMP

NO SCALE

THD-5

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

LAST REVISION 02-22-16 | DATE PLOTTED => 23-FEB-2016 | TIME PLOTTED => 09:19

BORDER LAST REVISED 7/2/2010 | USERNAME => s125624 | DGN FILE => 73w060me005.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1863 | PROJECT NUMBER & PHASE 07150000391

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	9	38

REGISTERED CIVIL ENGINEER — DATE 2-3-16

PLANS APPROVAL DATE 2-22-16

REGISTERED PROFESSIONAL ENGINEER — JOCELYN C CHIANG — No. 62742 — Exp. 6-30-16 — CIVIL — STATE OF CALIFORNIA

NOTES:

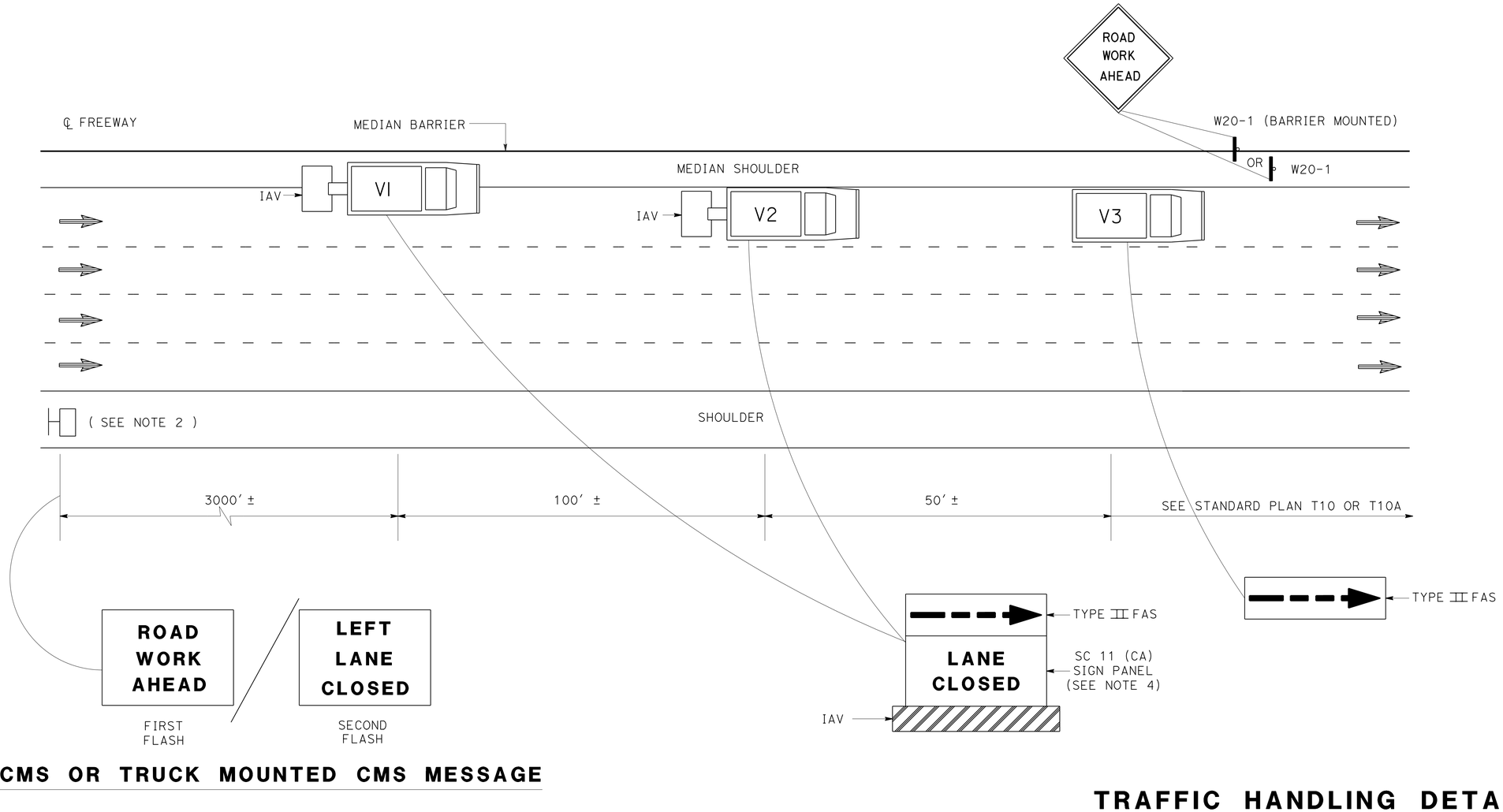
1. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500′ SHALL BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED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

ABBREVIATIONS

FAS	FLASHING ARROW SIGN
IAV	IMPACT ATTENUATOR VEHICLE
CMS	CHANGEABLE MESSAGE SIGN
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
(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

CALCULATED-DESIGNED BY	JC	3/12
CHECKED BY	ALBERT K YU	
	JOCELYN C CHIANG	

REVISED BY — DATE REVISED

FUNCTIONAL SUPERVISOR: ALBERT K. YU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DTM — Caltrans

LAST REVISION 02-22-16 | DATE PLOTTED => 23-FEB-2016 | TIME PLOTTED => 09:19

BORDER LAST REVISED 7/2/2010 | USERNAME => s125624 | DGN FILE => 73w060me006.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1863 | PROJECT NUMBER & PHASE 07150000391

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	10	38

REGISTERED CIVIL ENGINEER — DATE 2-3-16

JOCELYN C CHIANG No. 62742 Exp 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PLANS APPROVAL DATE 2-22-16

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:

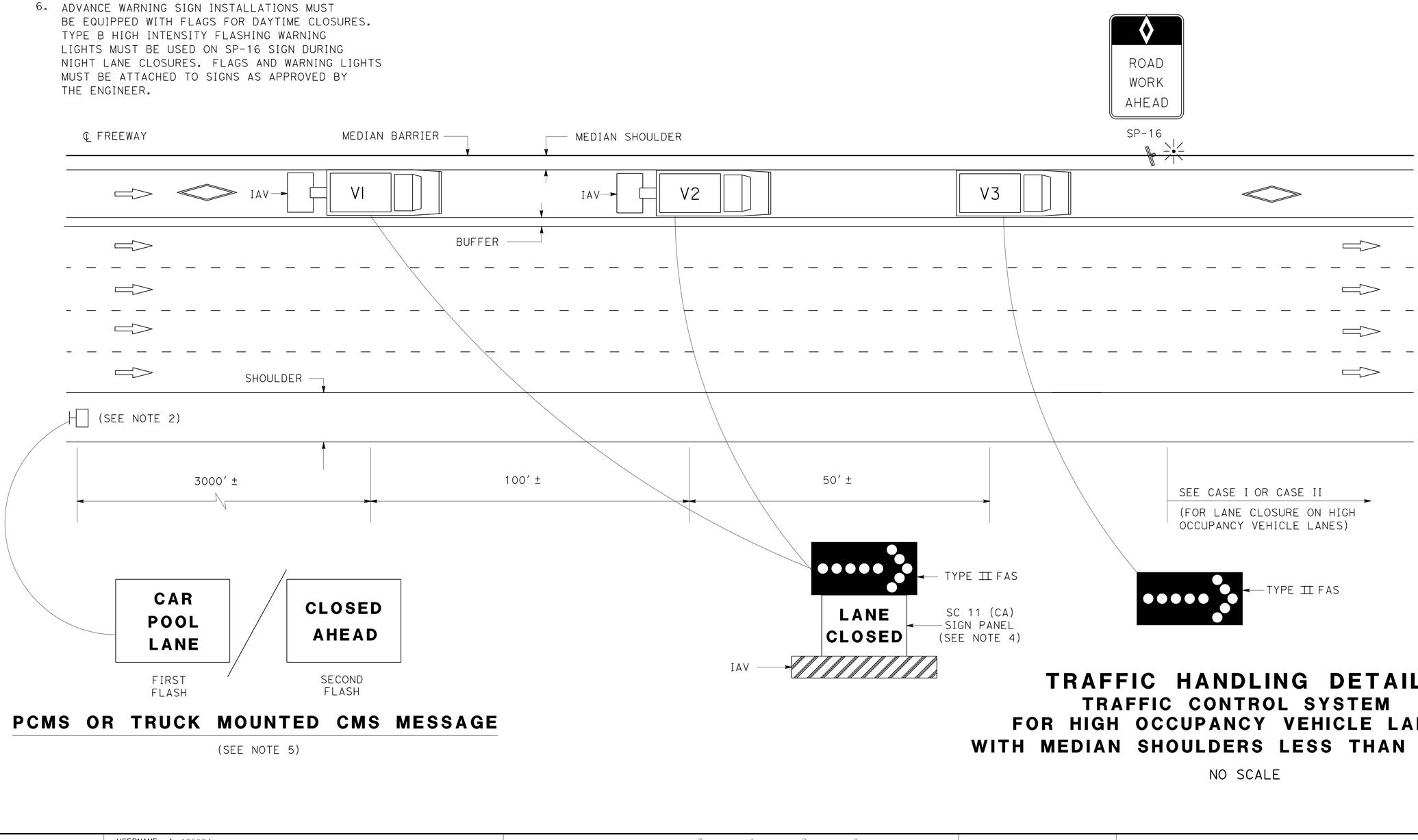
1. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS MUST BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500' MUST BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS MUST BE TYPE III OR IV RETROREFLECTORIZED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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DTM

FUNCTIONAL SUPERVISOR: ALBERT K. YU

CALCULATED-DESIGNED BY: ALBERT K YU

CHECKED BY: JOCELYN C CHIANG

REVISED BY: JC — DATE REVISED: 2/14

LAST REVISION — DATE PLOTTED => 23-FEB-2016 — TIME PLOTTED => 09:19 — 02-22-16

BORDER LAST REVISED 7/2/2010

USERNAME => s125624
DGN FILE => 73w060me007.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1863 | PROJECT NUMBER & PHASE 07150000391

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	11	38

REGISTERED CIVIL ENGINEER — DATE 2-3-16

PLANS APPROVAL DATE 2-22-16

JOCELYN C CHIANG No. 62742 Exp 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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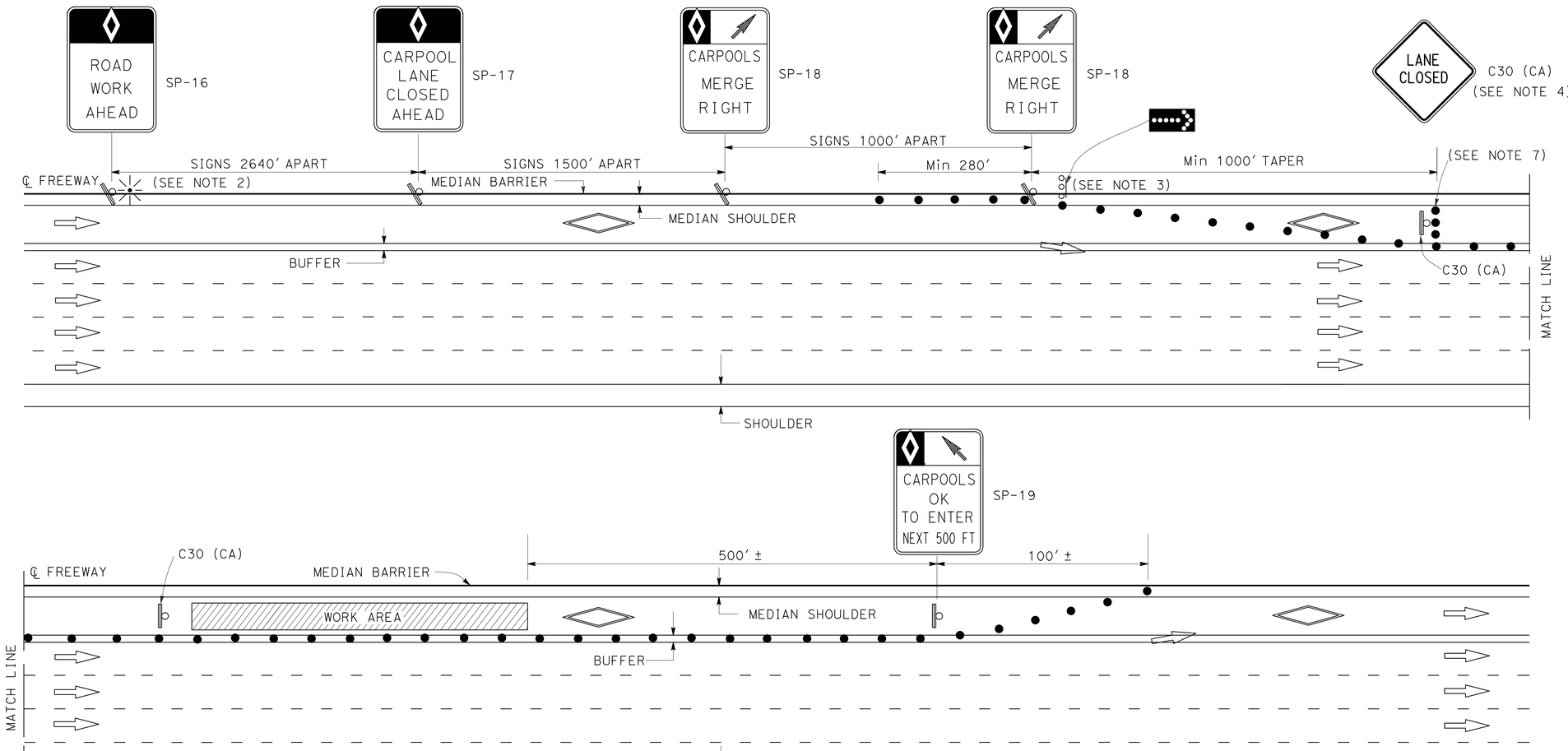

LEGEND

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

ABBREVIATIONS

(CA) CALIFORNIA CODE

SIGN PANEL

SIZE (MIN)

SP-16	36" X 54"
SP-17	36" X 54"
SP-18	36" X 48"
SP-19	36" X 60"
C30 (CA)	30" X 30"
G20-2	48" X 24"

NOTES: FOR CASE I AND CASE II

1. AT LEAST ONE PERSON MUST BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON NIGHT LANE CLOSURES OR DAY-TIME CLOSURES EXCEEDING 1 MILE LENGTH, INCLUDING TAPERS.
2. ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON SP-16 SIGN DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
3. THE FLASHING ARROW SIGN MUST BE TYPE I.
4. PLACE C30 (CA) SIGNS EVERY 2000' THROUGHOUT THE LENGTH OF LANE CLOSURE.
5. A MINIMUM 1500' OF SIGHT DISTANCE MUST BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING THE FLASHING ARROW SIGN. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
6. PORTABLE DELINEATORS PLACED AT ONE-HALF THE SPACING INDICATED FOR TRAFFIC CONES MAY BE USED INSTEAD OF CONES FOR DAYTIME CLOSURES.
7. A MINIMUM OF 3 CONES MUST BE PLACED TRANSVERSELY ACROSS CLOSED LANES WHERE TAPERS END AND EVERY 2000'. TWO TYPE II BARRICADES MAY BE USED INSTEAD OF 3 CONES. THE ALIGNMENT OF CONES OR BARRICADES MAY BE SHIFTED FROM THE TRANSVERSE ALIGNMENT TO PROVIDE ACCESS TO WORK.
8. IF AN INGRESS/EGRESS AREA IS WITHIN 5250' UPSTREAM OR DOWNSTREAM OF THE WORK AREA, LANE CLOSURES MUST BE EXTENDED TO THAT AREA AS SHOWN IN CASE II.
9. SIGNS SP-16, 17, 18, AND 19 MAY BE OVERLAID ON EXISTING CARPOOL SIGNS IN MEDIANS AS APPROVED BY THE ENGINEER.
10. SIGNS SP-16, 17, 18, AND C30 (CA) MUST BE BLACK ON ORANGE BACKGROUND. SIGN SP-19 MUST BE BLACK ON WHITE BACKGROUND. DIAMONDS ON SIGNS MUST BE WHITE.
11. FOR CLOSURE OF LANE(S) ADJACENT TO HOV LANES, SEE CASE II.
12. THE MAXIMUM SPACING BETWEEN CONES MUST BE APPROXIMATELY 50' IN TAPERS AND 100' ON TANGENTS.

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

NO SCALE

THD-8

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

LAST REVISION 02-22-16 — DATE PLOTTED => 23-FEB-2016 — TIME PLOTTED => 09:19

BORDER LAST REVISED 7/2/2010 | USERNAME => s125624 | DGN FILE => 73w060me008.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1863 | PROJECT NUMBER & PHASE 07150000391

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	12	38

REGISTERED CIVIL ENGINEER — 2-3-16 DATE

2-22-16 PLANS APPROVAL DATE

JOCELYN C CHIANG No. 62742 Exp 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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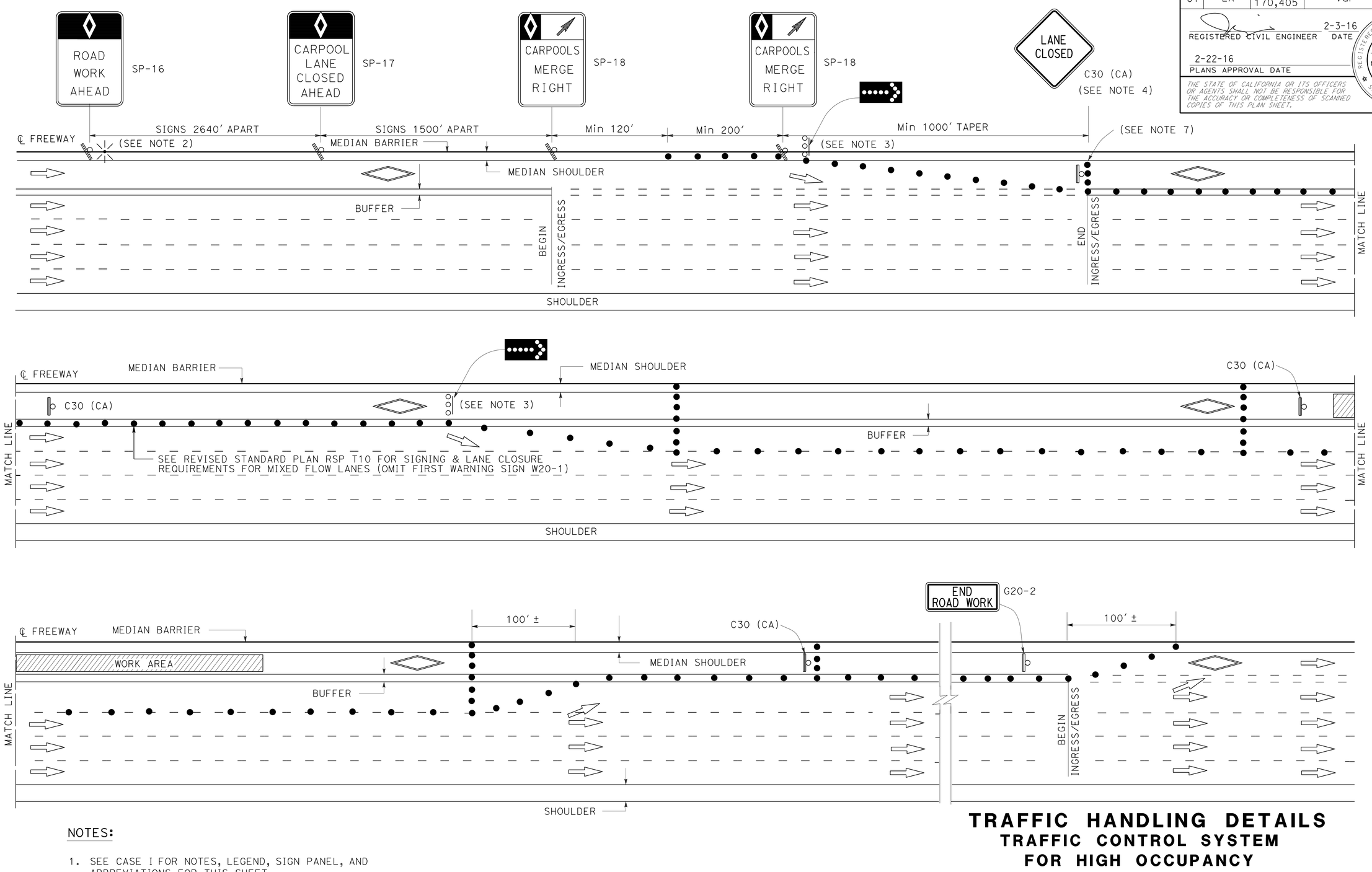


NOTES:

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

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR HIGH OCCUPANCY VEHICLE LANES AND ADJACENT FREEWAY LANES BETWEEN INGRESS/EGRESS AREAS
CASE II

NO SCALE

THD-9

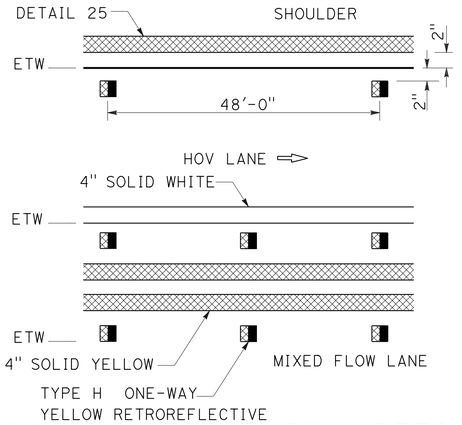
REVISED BY	DATE REVISED
JC	2/14

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: ALBERT K. YU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
Caltrans®

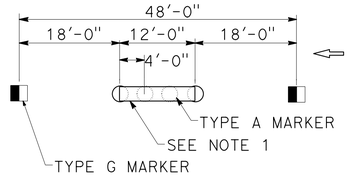
LAST REVISION: DATE PLOTTED => 23-FEB-2016 02-22-16 TIME PLOTTED => 09:19

BORDER LAST REVISED 7/2/2010 | USERNAME => s125624 DGN FILE => 73w060me009.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1863 | PROJECT NUMBER & PHASE 07150000391



HOV BUFFER STRIPING DETAIL

NO SCALE



DETAIL 13/14 (MODIFIED)

NO SCALE

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	13	38

2-10-16
REGISTERED CIVIL ENGINEER DATE

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

2-22-16
PLANS APPROVAL DATE

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

PAVEMENT DELINEATION QUANTITIES

LOCATION				THERMOPLASTIC TRAFFIC STRIPE															THERMOPLASTIC PAVEMENT MARKING					PAVEMENT MARKER				REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER
				DETAIL					HOV BUFFER STRIPING DETAIL			DETAIL											RETROREFLECTIVE							
				9	13 (Mod)	25/ 25A	27	27B				21	28	36	36A	37															
				4" BROKEN WHITE (17-7)	4" BROKEN WHITE (36-12)	4" SOLID YELLOW	4" SOLID YELLOW	4" SOLID WHITE	4" SOLID YELLOW	4" SOLID WHITE	4" SOLID WHITE	4" SOLID YELLOW	4" SOLID YELLOW	4" SOLID WHITE	8" SOLID WHITE	8" SOLID WHITE	8" BROKEN WHITE (12-3)	HOV BUFFER	8" BROKEN WHITE	LIMIT LINE	DIAMOND SIGN	WORDS	TYPE IV, VI, III, ARROWS	DIAGONAL WHITE	TYPE H	TYPE G	TYPE C	NON-REFLECTIVE TYPE A				
Br No.	BRIDGE NAME	Rte	PM	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	SQFT	SQFT	SQFT	EA	EA	EA	EA	LF	LF	SQFT	EA
53 2501	CORBIN AVENUE OC	118	R4.29	474				624					1,280										30					762	1,280	30	
53 2395	BALBOA BLVD OC	118	R7.80	1,132				566			200							60	135	75				52			1,096		270	52
53 2204	HAYVENHURST AVENUE UC	118	R8.34		1,792	512		512	1,024	512						256			44				22	80	21	149	960	1,536	44	272
53 2793L	MISSION-GOTHIC UC	118	R8.63		3,272	818		818	1,636	818						818							35	141	59	273	1,636	2,454		508
53 2793R	MISSION-GOTHIC UC	118	R8.63		2,704	676		676	1,352	676						676						11	29	118	49	225	1,352	2,028	11	421
53 2207	WOODLEY AVENUE UC	118	R9.04		1,351	386		386	772	386						193						11	17	61	17	113	724	1,158	11	208
53 2213	SEPULVEDA BLVD UC	118	R10.07		1,295	370		660									370					22	16	59		108	984	370	22	183
53 2214	CHATSWORTH DRIVE UC	118	R10.51		1,746	388		388								388	388						17	78	30	146	825	388		270
53 2215	FOX STREET UC	118	R10.83		1,764	392		392								196							17	79	17	147	833	392		260
53 2357	ARLETA AVENUE UC	118	R11.05		1,557	346		346						173	300		346			42			15	97		130	1,681	346	42	242
	SUBTOTAL			1,606	15,481	3,888		5,368	4,784	2,392	200		1,280	173	300	2,527	1,104	60	179	117	44	30	168	765	193	1,291	10,853	9,952	430	2,416
	SHEET TOTAL			1,606	15,481	17,912								473		2,527	1,104	430					1,126			1,291	10,853	9,952	430	2,416

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY: AMBACHEW YIRGU | CHECKED BY: KEVIN KWAN
FUNCTIONAL SUPERVISOR: KEVIN KWAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION | DATE PLOTTED => 23-FEB-2016
02-22-16 | TIME PLOTTED => 09:19

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	14	38

2-10-16
REGISTERED CIVIL ENGINEER DATE

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

2-22-16
PLANS APPROVAL DATE

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

PAVEMENT DELINEATION QUANTITIES

LOCATION				THERMOPLASTIC TRAFFIC STRIPE														THERMOPLASTIC PAVEMENT MARKING					PAVEMENT MARKER							
				DETAIL					HOV BUFFER STRIPING DETAIL			DETAIL					HOV BUFFER						RETROREFLECTIVE						
				9	13 (Mod)	25/ 25A	27	27B				21	28	36	36A	37														
				4" BROKEN WHITE (17-7)	4" BROKEN WHITE (36-12)	4" SOLID YELLOW	4" SOLID YELLOW	4" SOLID WHITE	4" SOLID YELLOW	4" SOLID WHITE	4" SOLID WHITE	4" SOLID YELLOW	4" SOLID YELLOW	8" SOLID WHITE	8" SOLID WHITE	8" BROKEN WHITE (12-3)	8" BROKEN WHITE	LIMIT LINE	DIAMOND SIGN	WORDS	TYPE IV, III, VI, ARROWS	DIAGONAL WHITE	TYPE H	TYPE G	TYPE C	NON-REFLECTIVE TYPE A	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER
Br No.	BRIDGE NAME	Rte	PM	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	SQFT	SQFT	SQFT	EA	EA	EA	EA	LF	LF	SQFT	EA
53 2908	UNIVERSAL TERRACE PARKWAY OC	101	10.56	1,225		488		488			479	588						271			224	75	22	56			1,324	488	570	78
53 2343G	E118-S5 CONNECTOR OC	118	R11.32		260		260	130															7	16		22	195	260		45
53 2342L	SHARP AVENUE UC	118	R11.31		220	110		110															7	14		18	165	110		39
53 2342R	SHARP AVENUE UC	118	R11.31		472	118		118															7	25		39	236	118		71
53 1127H	PAXTON STREET UC	118	R11.42		302		302	151															8	18		25	227	302		51
53 2324L	ROUTE 118/5 SEPARATION	118	R11.42		442	221		221															11	23			332	221		35
53 2324R	ROUTE 118/5 SEPARATION	118	R11.42		684	228		228															12	34			399	228		45
53 2345F	W118-N5 CONNECTOR OC	118	R11.56			185		215															10	5			215	185		15
53 2344L	LAUREL CANYON BLVD UC	118	R11.57		350	175		175															9	20			263	175		29
53 2344R	LAUREL CANYON BLVD UC	118	R11.57		540	180		180															10	28			315	180		37
53 2211	ROUTE 405/118 SEPARATION	405	46.83		1,644	548	1,096	548	1,096	548						274							48	74			959	2,740		121
SUBTOTAL				1,225	4,914	2,253	1,658	2,564	1,096	548	479	588				274		271			224	75	151	313		104	4,630	5,007	570	566
SHEET TOTAL				1,225	4,914	9,186										274		570					464			104	4,630	5,007	570	566
SHEET TOTAL (FROM PDQ-1)				1,606	15,481	17,912							473			2,527	1,104	430					1,126			1,291	10,853	9,952	430	2,416
GRAND TOTAL				2,831	20,395	27,098							473			2,801	1,104	1,000					1,590			1,395	15,483	14,959	1,000	2,982

REVISED BY | DATE REVISED
AMBACHEW YIRGU | KEVIN KWAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: KEVIN KWAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION | DATE PLOTTED => 23-FEB-2016
02-22-16 | TIME PLOTTED => 09:19

PAVEMENT DELINEATION QUANTITIES

PDQ-2

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	101,118, 170,405	Var	15	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 2-22-16

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	101,118, 170,405	Var	16	38

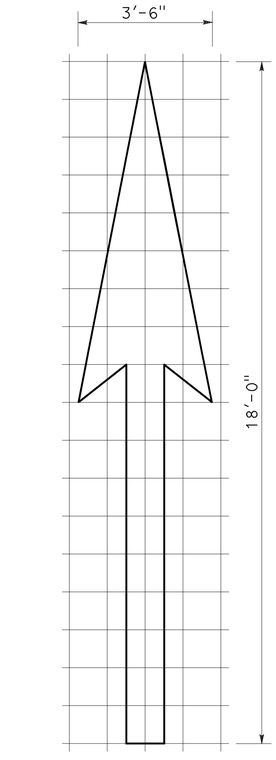
Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

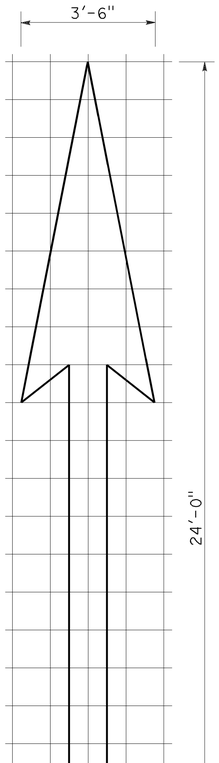
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-22-16



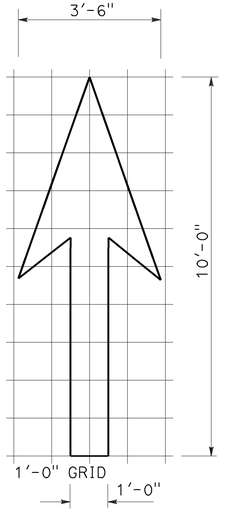
A=25 ft²

TYPE I 18'-0" ARROW



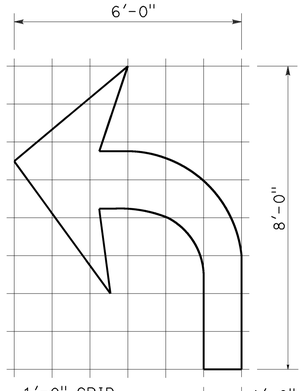
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

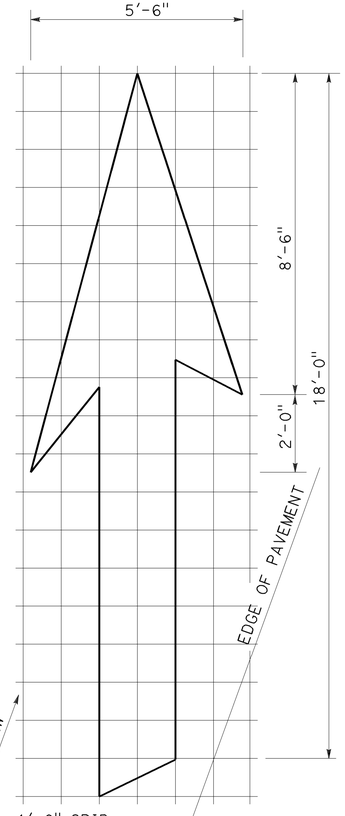
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

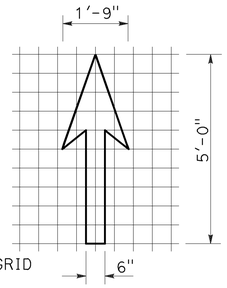
(For Type IV (R) arrow, use mirror image)



A=42 ft²

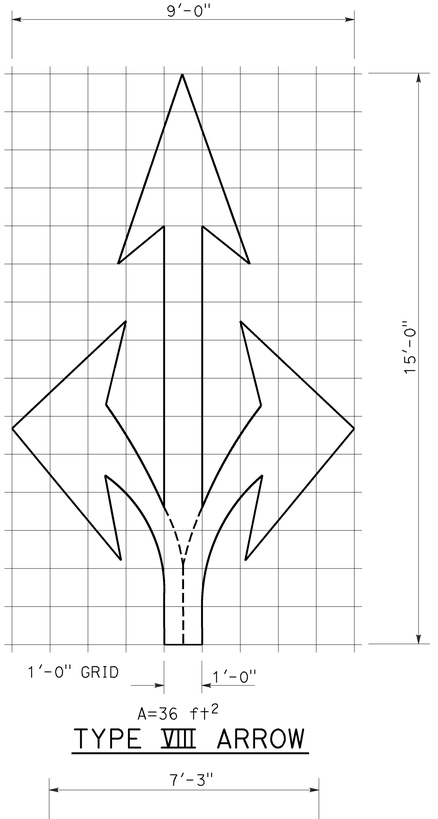
TYPE VI ARROW

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



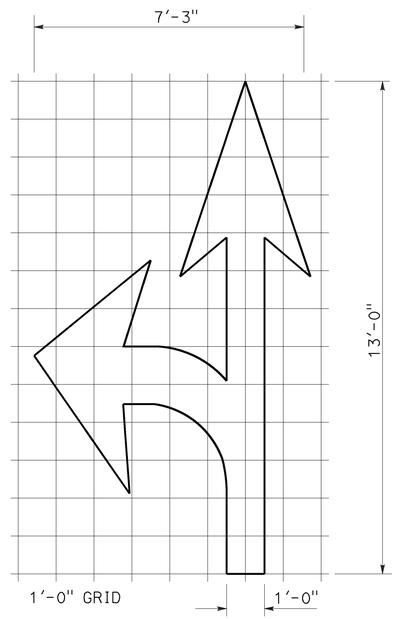
A=3.5 ft²

BIKE LANE ARROW



A=36 ft²

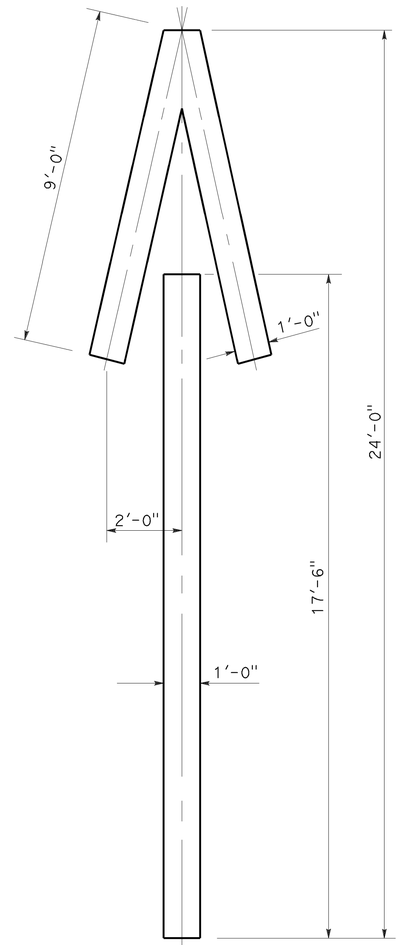
TYPE VIII ARROW



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	101,118, 170,405	Var	17	38

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

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

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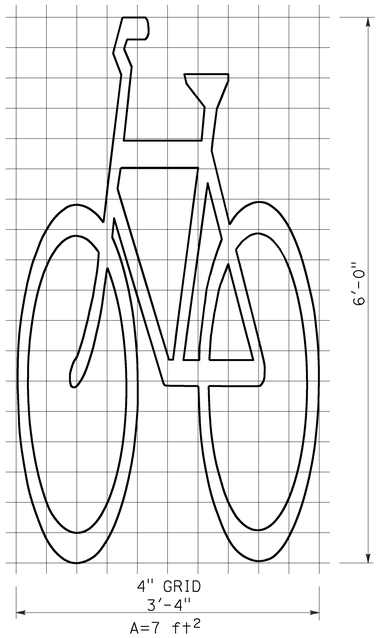
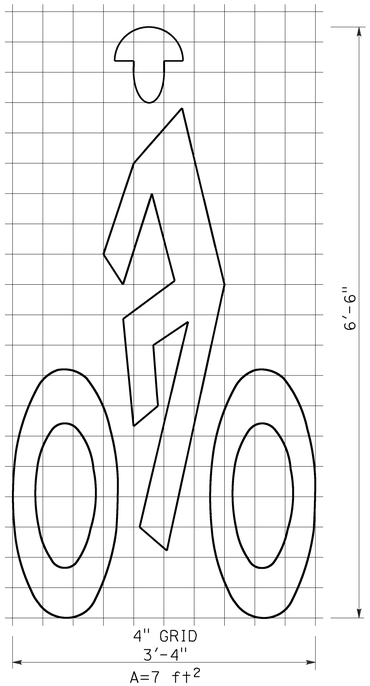
NOTE: TO ACCOMPANY PLANS DATED 2-22-16

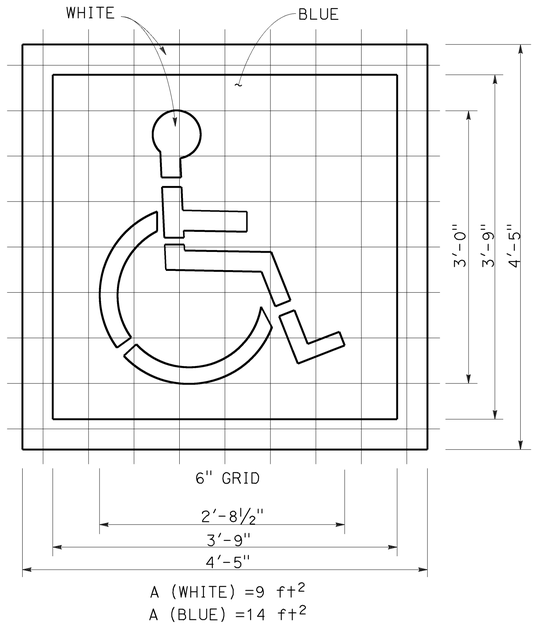
Minor variations in dimensions may be accepted by the Engineer.



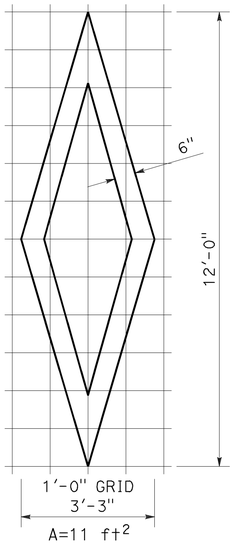
BIKE LANE SYMBOL WITHOUT PERSON



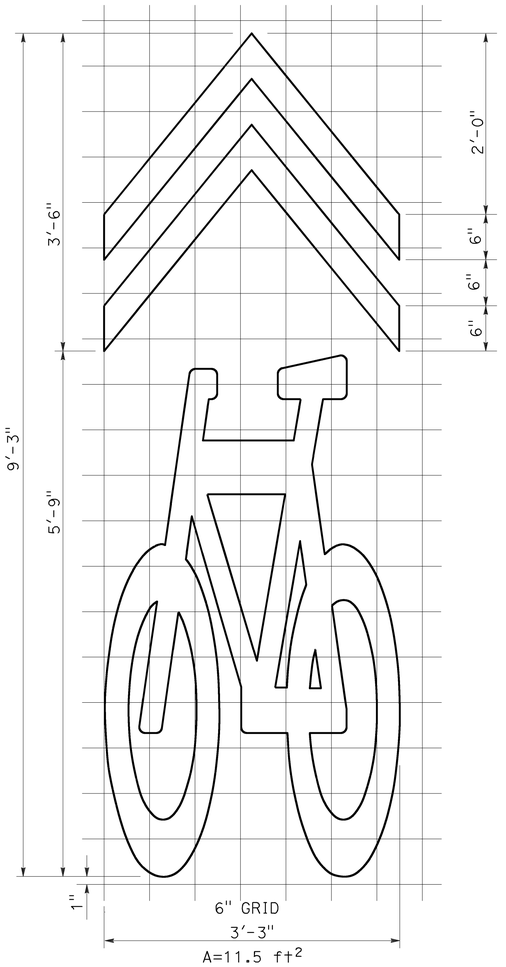
BIKE LANE SYMBOL WITH PERSON



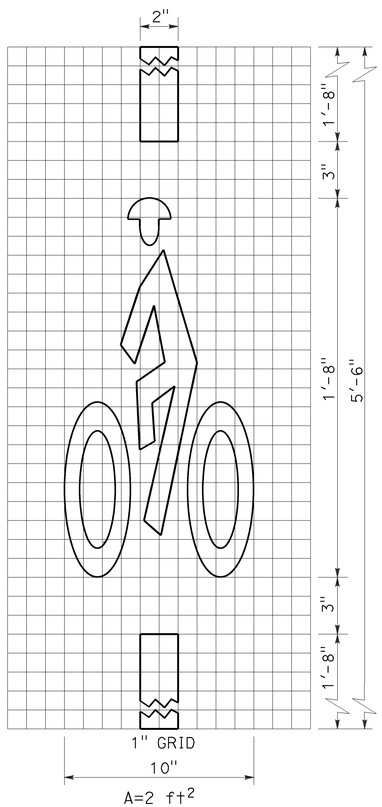
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



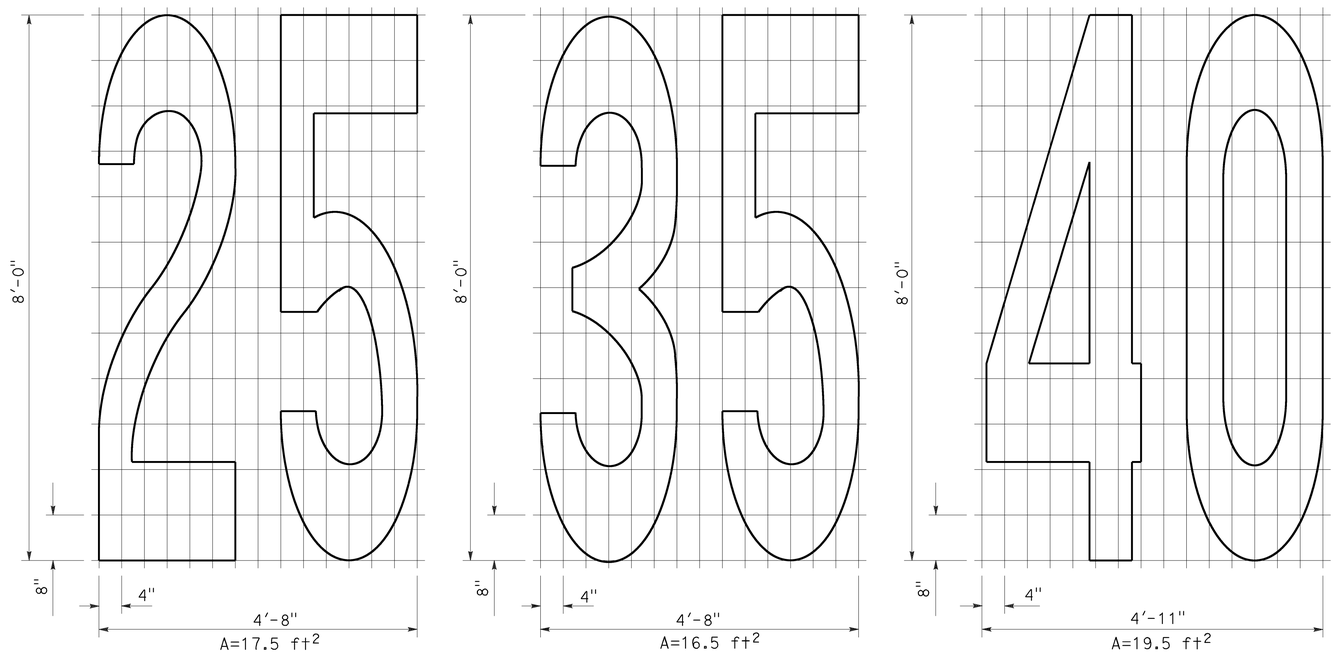
DIAMOND SYMBOL



SHARED ROADWAY BICYCLE MARKING



BICYCLE LOOP DETECTOR SYMBOL



NUMERALS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

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

REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	18	38

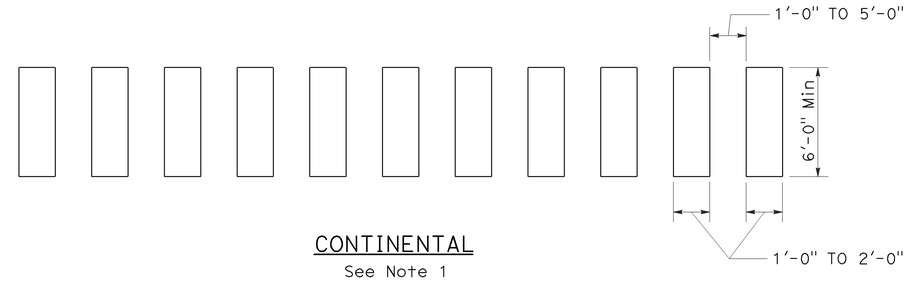
Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

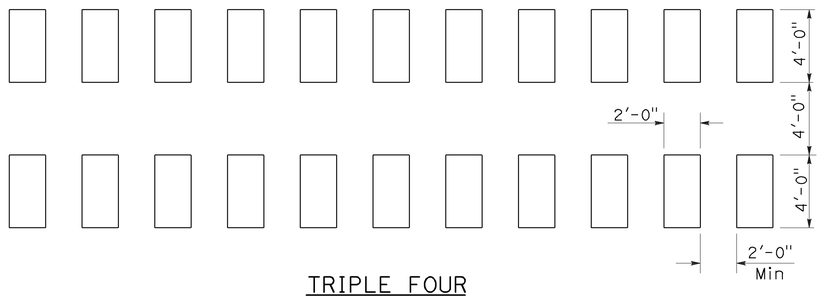
REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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

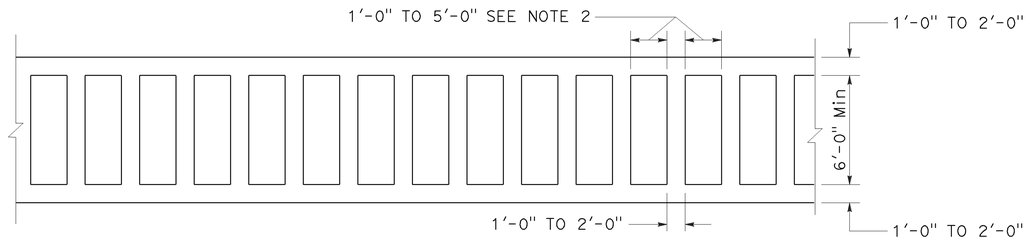
TO ACCOMPANY PLANS DATED 2-22-16



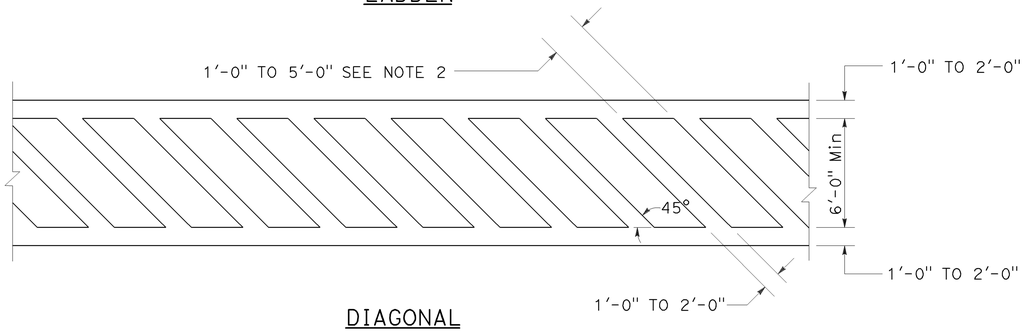
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER



DIAGONAL

HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.

BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS CROSSWALKS

NO SCALE

RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	19	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

TO ACCOMPANY PLANS DATED 2-22-16

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.

2010 REVISED STANDARD PLAN RSP T9

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	101,118, 170,405	Var	20	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

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 2-22-16

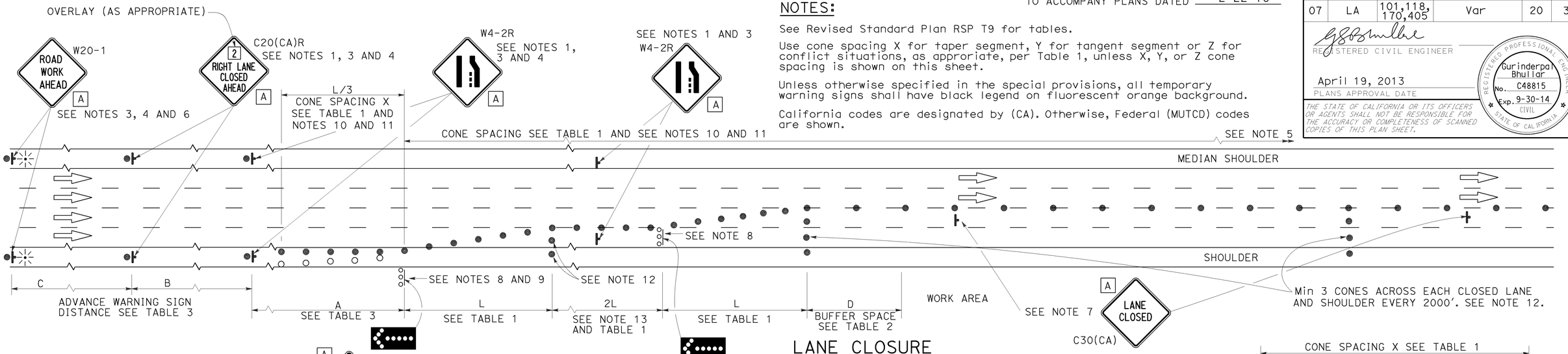
NOTES:

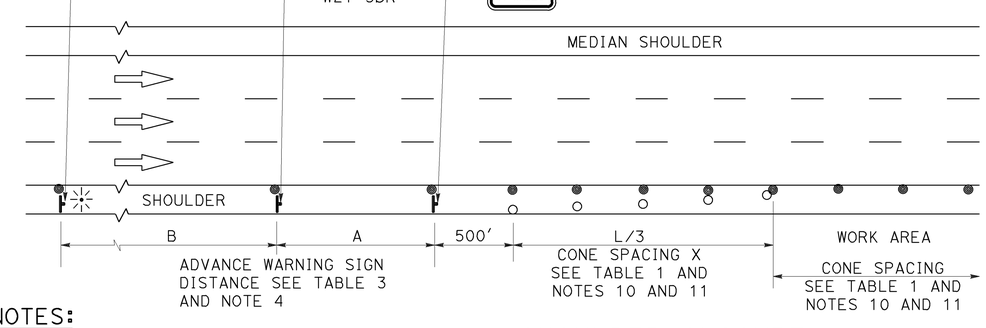
See Revised Standard Plan RSP T9 for tables.

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.

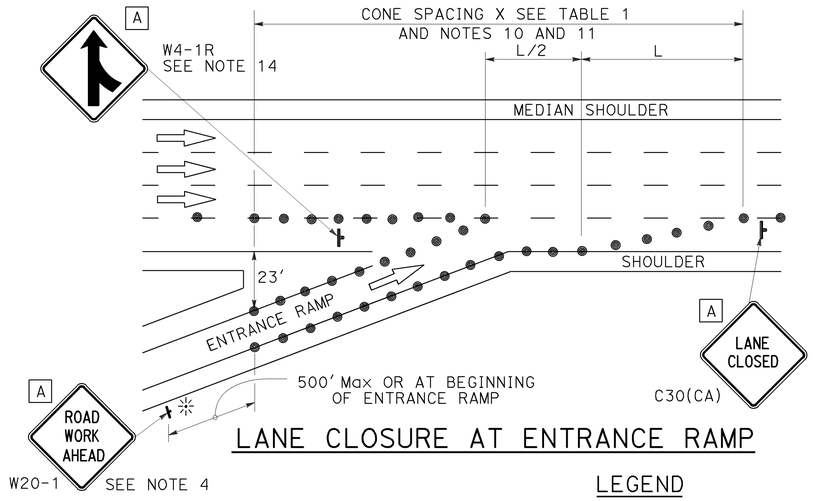
Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

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

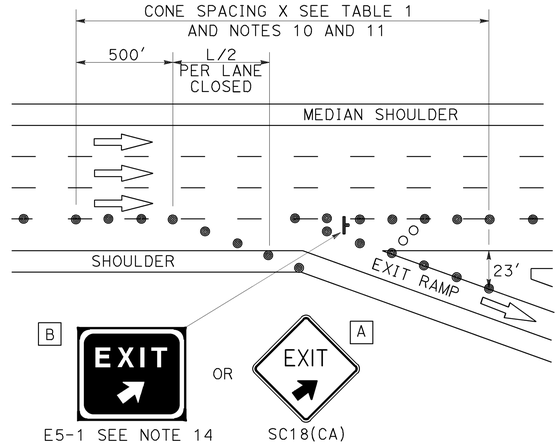




LANE CLOSURE



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

TO ACCOMPANY PLANS DATED 2-22-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118, 170,405	Var	21	38

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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

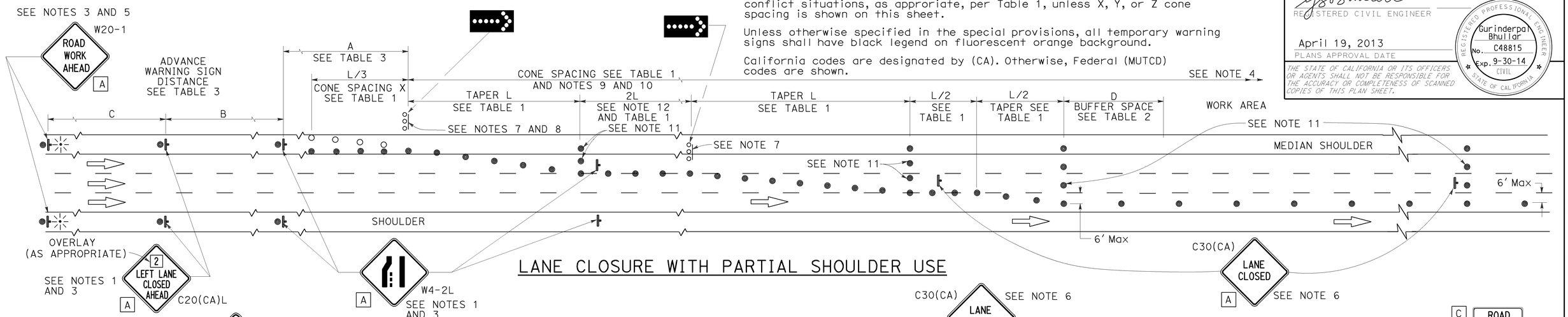
NOTES:

See Revised Standard Plan RSP T9 for tables.

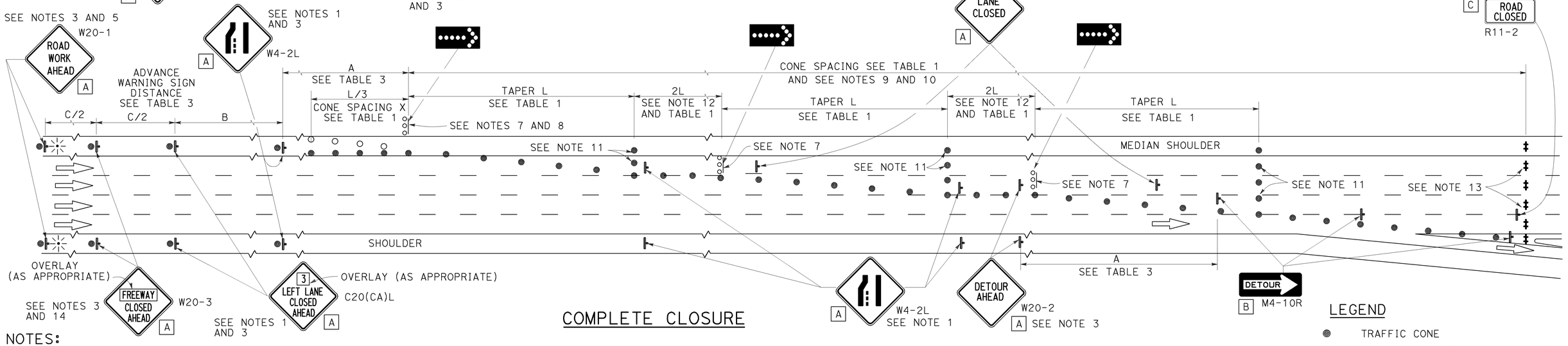
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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 WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

NOTES:

1. Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. 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.
4. 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.
5. 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.
6. Place a C30(CA) sign every 2000' throughout length of lane closure.
7. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
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. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
10. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
11. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
12. 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.
13. A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
14. When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

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

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURES ON FREEWAYS AND EXPRESSWAYS

NO SCALE

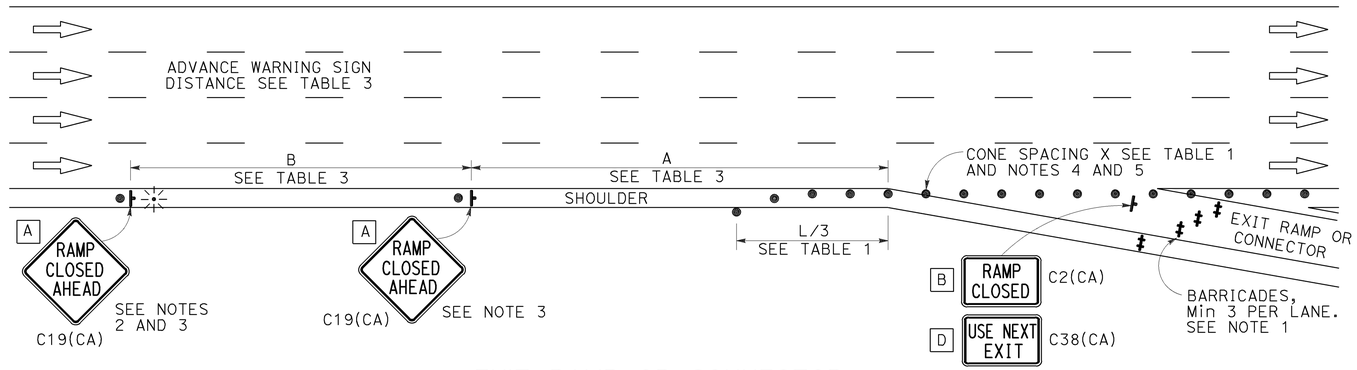
RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

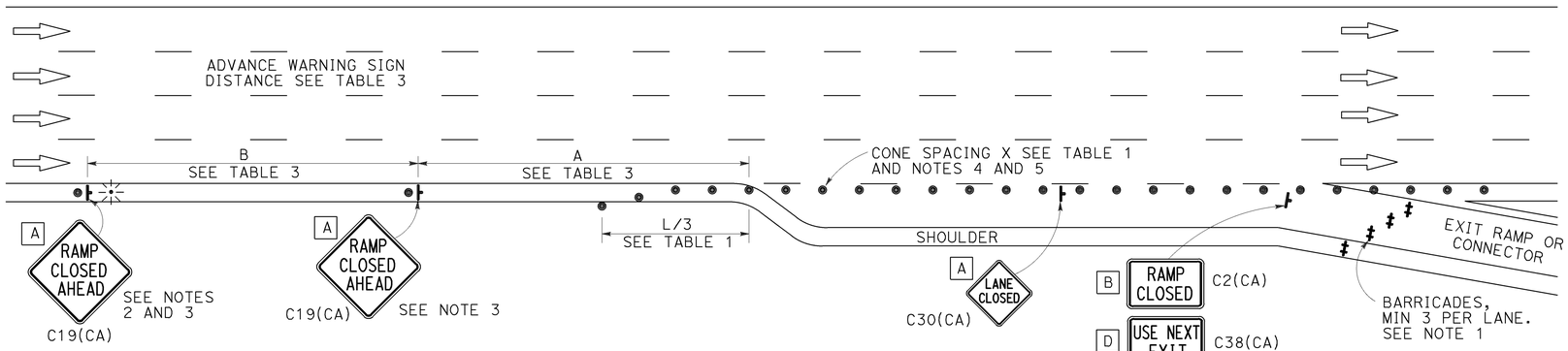
2010 REVISED STANDARD PLAN RSP T10A

12-18-12

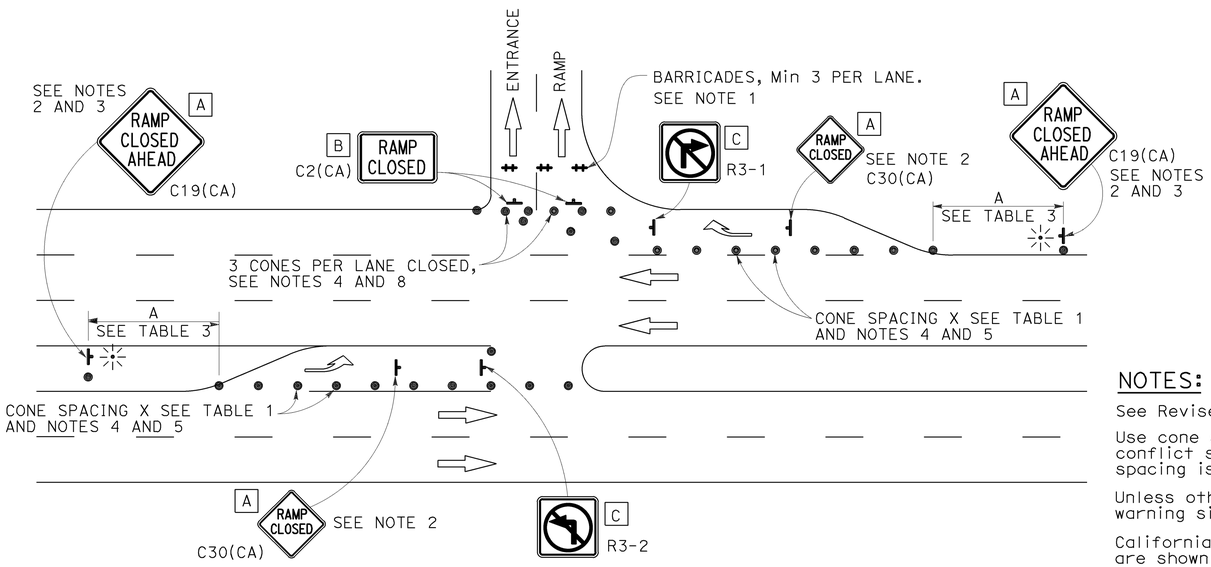
TYPICAL RAMP CLOSURES



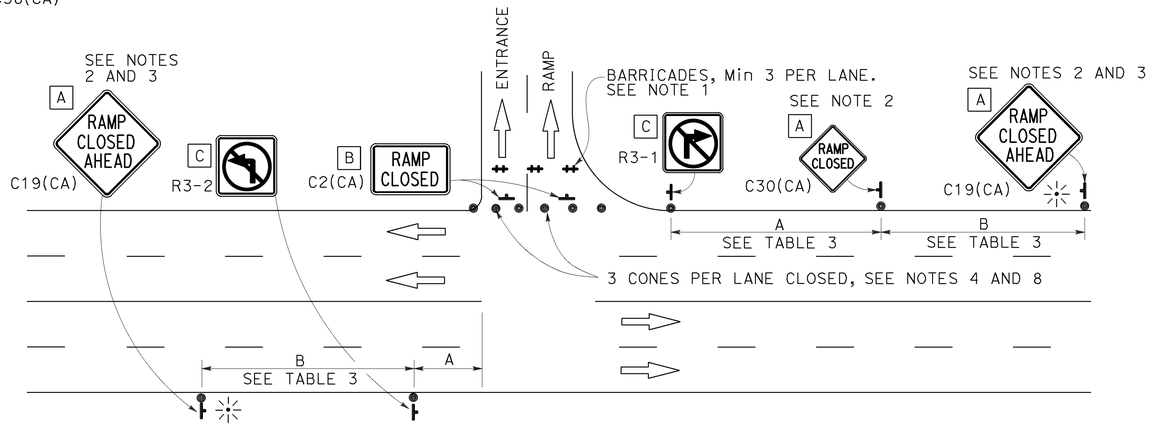
EXIT RAMP OR CONNECTOR



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	101,118, 170,405	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 2-22-16

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	101,118, 170,405	Var	23	38

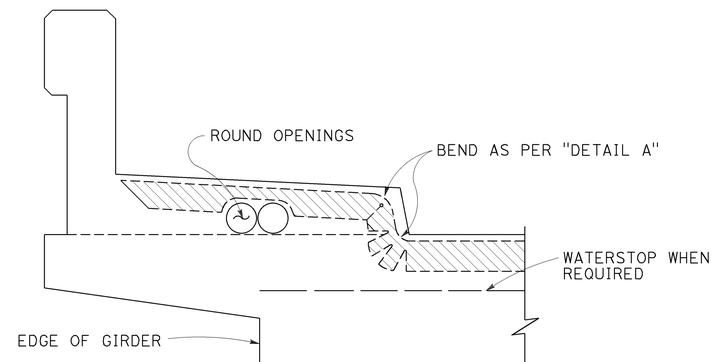
REGISTERED CIVIL ENGINEER

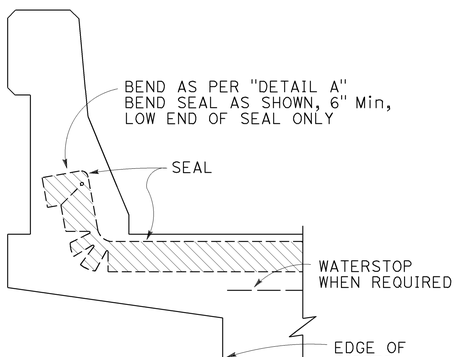
October 30, 2015
PLANS APPROVAL DATE

Efthymios Delis
No. C51434
Exp. 6-30-17
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.

TO ACCOMPANY PLANS DATED 2-22-16

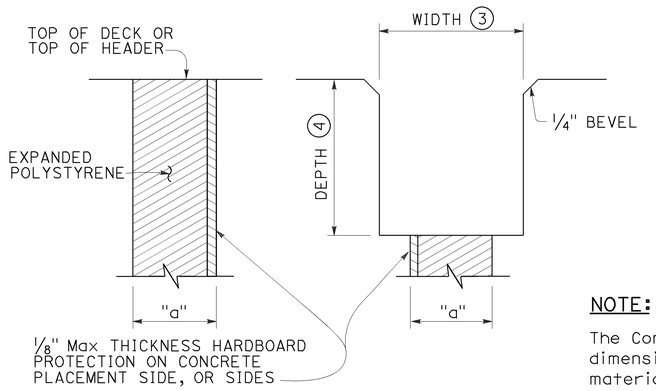




NOTE:
Type "B" seal shown. Type "A" seals to comform to the general path of seal shown, cuts for bending not required. Bend type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK

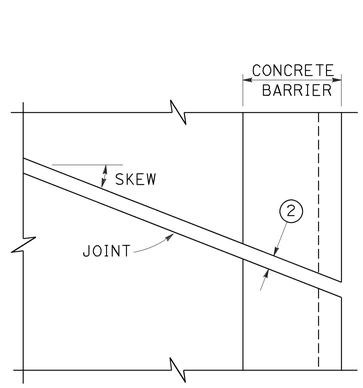
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

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

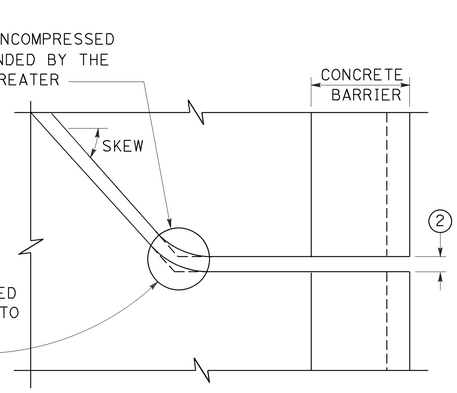
JOINT SEALS DETAILS



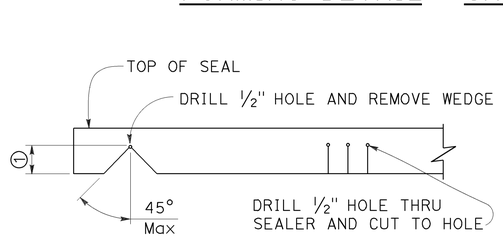
PLAN OF JOINT (SKEW ≤ 20°)

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°)



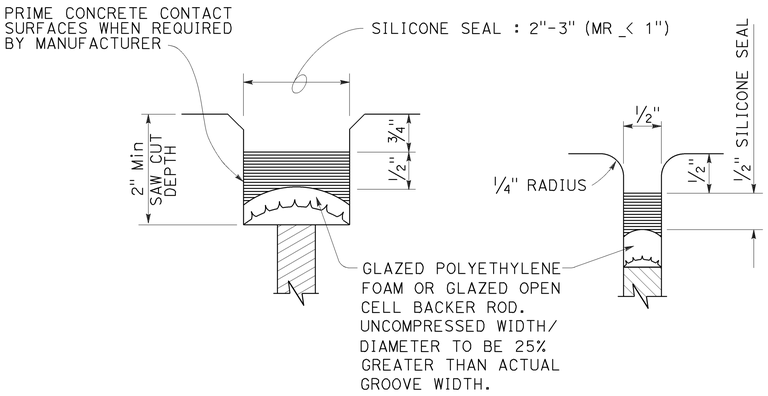
DETAIL A

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.

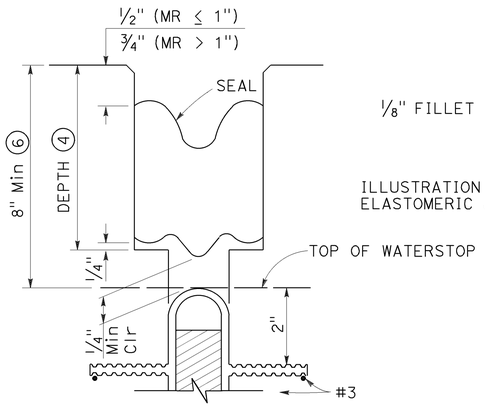
DIMENSIONS "a" OF JOINT REQUIRED

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"

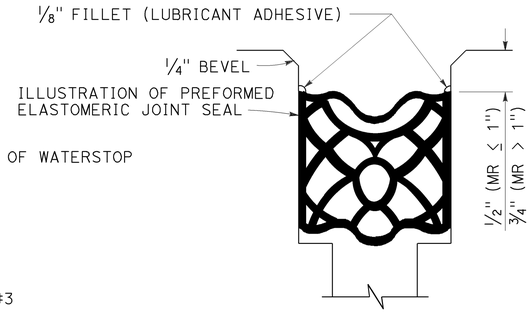


TYPE A SEAL
Movement rating : Silicone = 1" Max

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

LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

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.

INDEX TO PLANS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	24	38

12/23/15
REGISTERED CIVIL ENGINEER — DATE

2-22-16
PLANS APPROVAL DATE

Mazin Ibrahim No. C69896 Exp. 09/30/16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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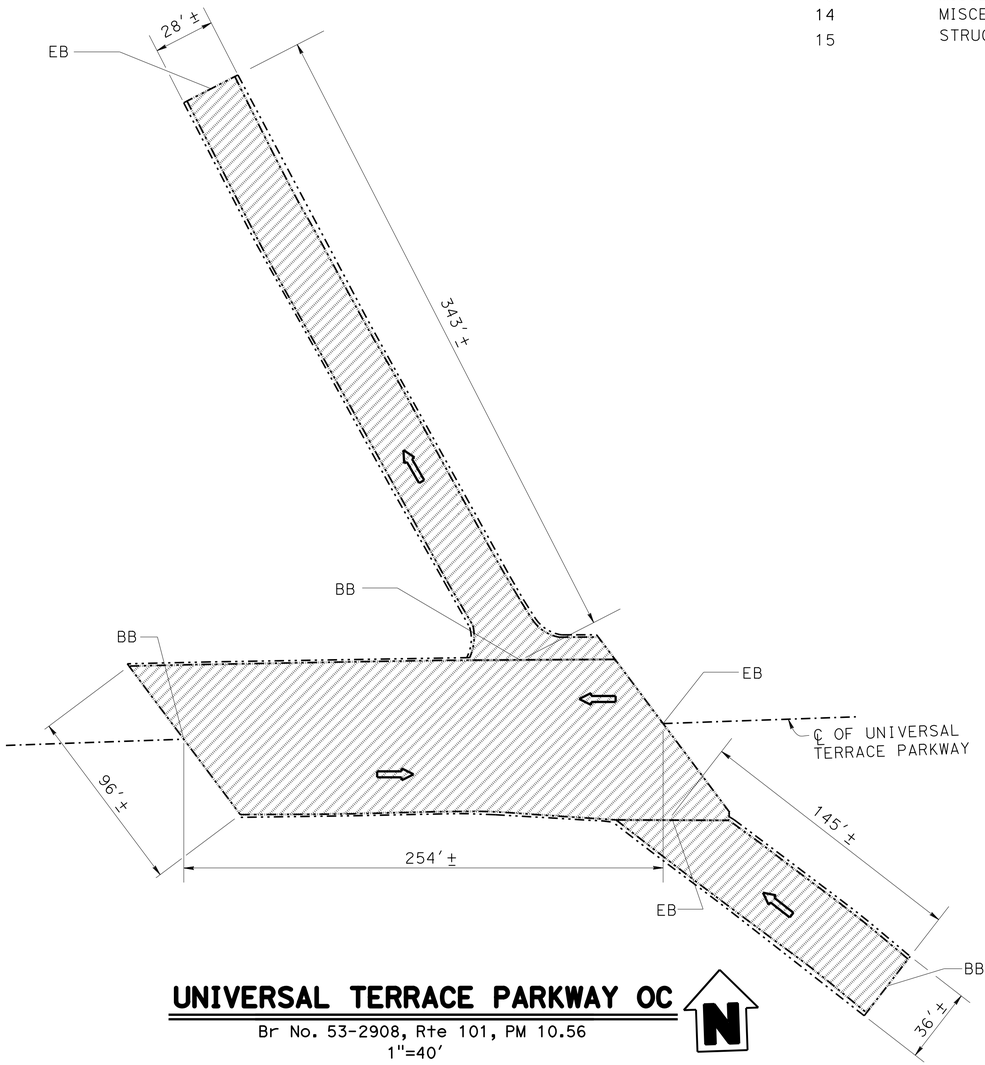

UNIVERSAL TERRACE PARKWAY OC

Br No. 53-2908, Rte 101, PM 10.56
1"=40'

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

UNIVERSAL TERRACE PARKWAY OC QUANTITIES — BRIDGE NO. 53-2908

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	39,400 SQFT
TREAT BRIDGE DECK	39,400 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	492 GAL

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Mazin Ibrahim	Ramesh Patel			
DETAILS	Eugene Goishi	Ramesh Patel	LAYOUT	Eugene Goishi	Ramesh Patel
QUANTITIES	Mazin Ibrahim	Hong-Tien Tran	SPECIFICATIONS	Xiahong Li	PLANS AND SPECS COMPARED Xiahong Li

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 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 : 0715000039-1 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				01	15

FILE => 07-3w0601-a-gp01.dgn

USERNAME => s125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	25	38

12/23/15
REGISTERED CIVIL ENGINEER — DATE

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mazin Ibrahim — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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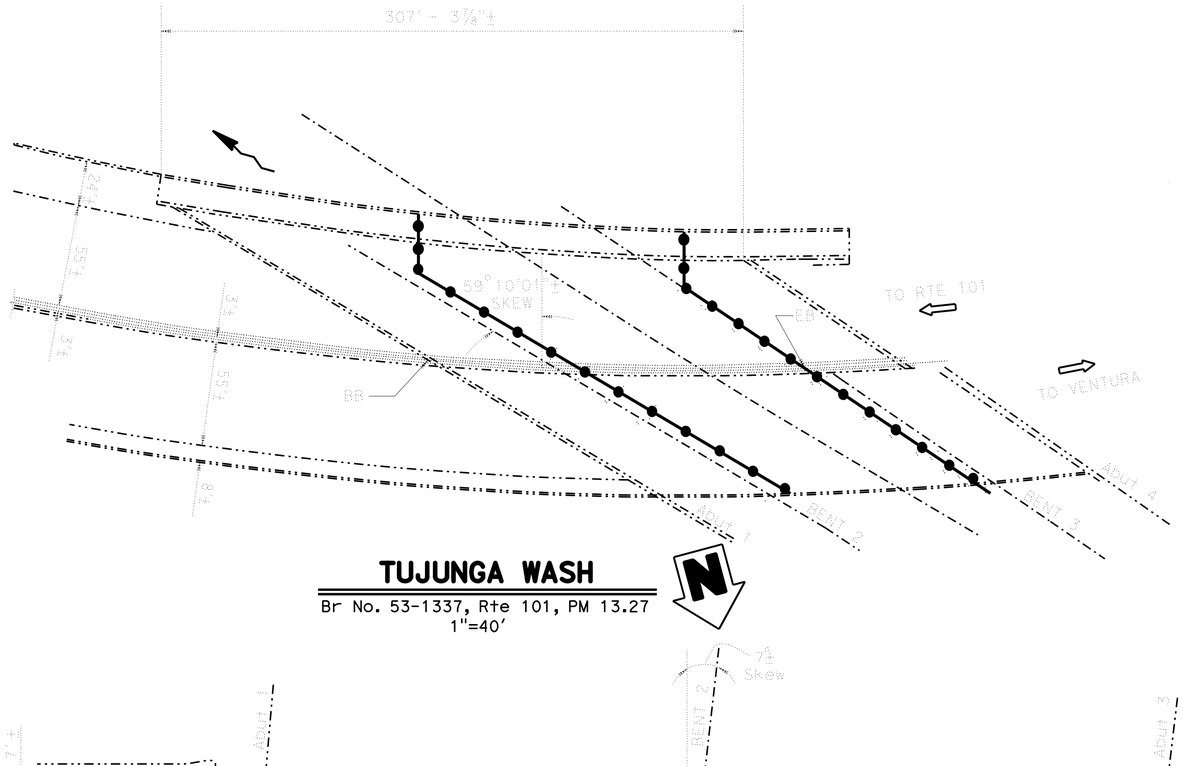
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES LOCATION OF EXISTING JOINT SEAL RECONSTRUCTION AND PLACEMENT OF NEW JOINT SEAL. SEE NOTE 1.



TUJUNGA WASH

Br No. 53-1337, Rte 101, PM 13.27
1"=40'

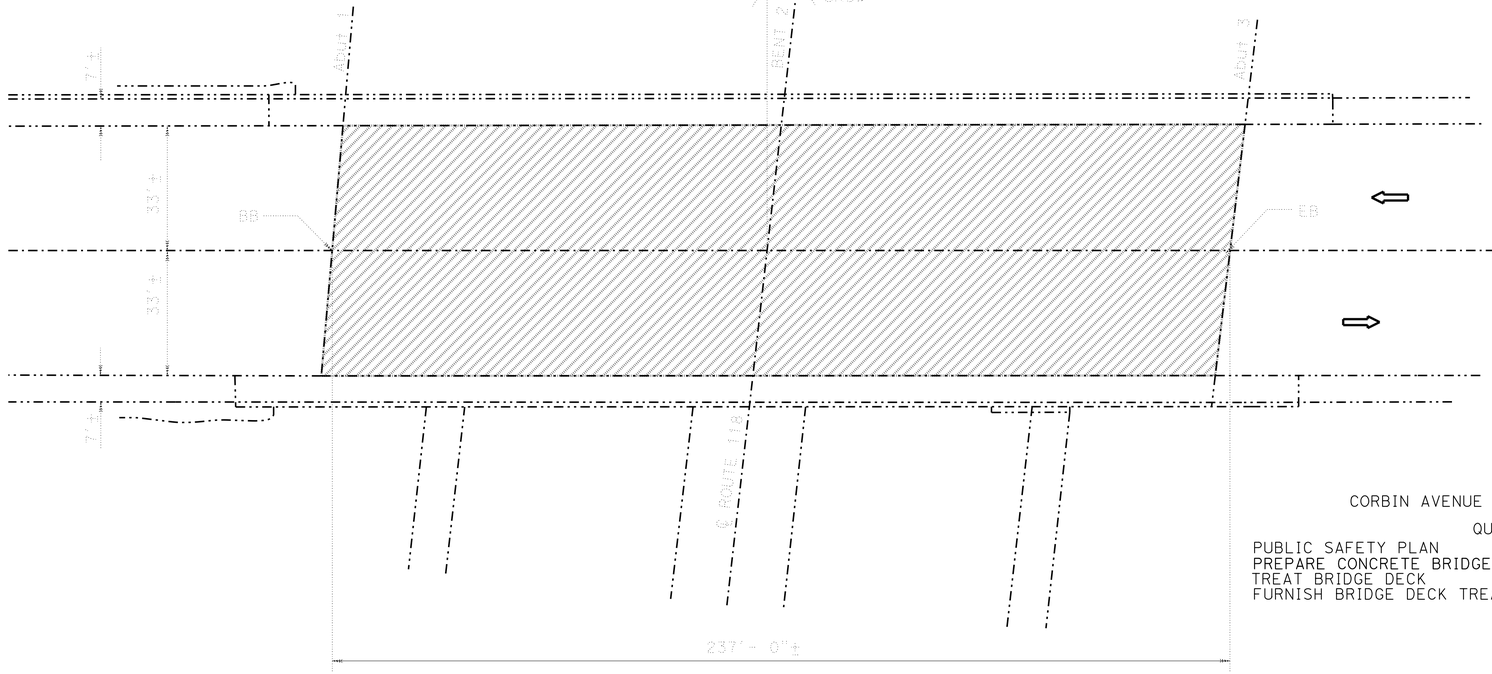
TUJUNGA WASH BRIDGE — BRIDGE NO. 53-1337

QUANTITIES

BRIDGE REMOVAL (PORTION)	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	22 CY
DRILL AND BOND DOWEL	354 LF
BONDED JOINT SEAL (MR 2")	556 LF
BAR REINFORCING STEEL (BRIDGE)	2,270 LB

NOTES:

1. For joint seal reconstruction, see "MISCELLANEOUS DETAILS NO. 3" sheet.



CORBIN AVENUE OC

Br No. 53-2501, Rte 118, PM R4.29
1"=20'

CORBIN AVENUE OC — BRIDGE NO. 53-2501

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	15,650 SQFT
TREAT BRIDGE DECK	15,650 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	196 GAL

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

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Mazin Ibrahim	Ramesh Patel			
DETAILS	Eugene Goishi	Ramesh Patel	LAYOUT	Eugene Goishi	Ramesh Patel
QUANTITIES	Mazin Ibrahim	Hong-Tien Tran	SPECIFICATIONS	Xiahong Li	PLANS AND SPECS COMPARED Xiahong Li

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 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 : 0715000039-1
CONTRACT NO. 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				02	15

FILE => 07-3w0601-a-gp02.dgn

USERNAME => s125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	26	38

REGISTERED CIVIL ENGINEER — DATE 12/23/15

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mazin Ibrahim — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

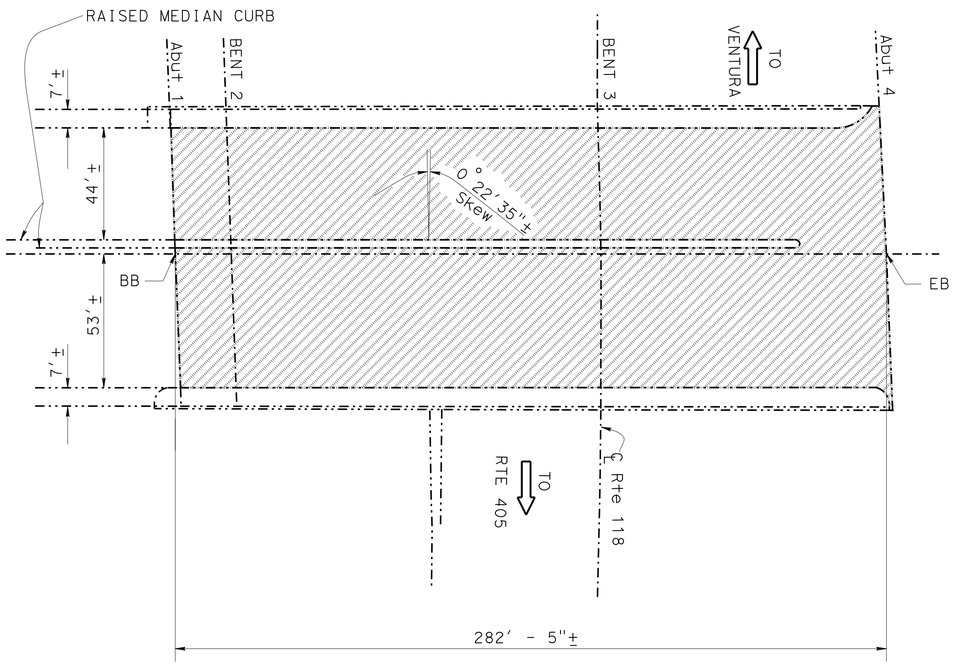
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

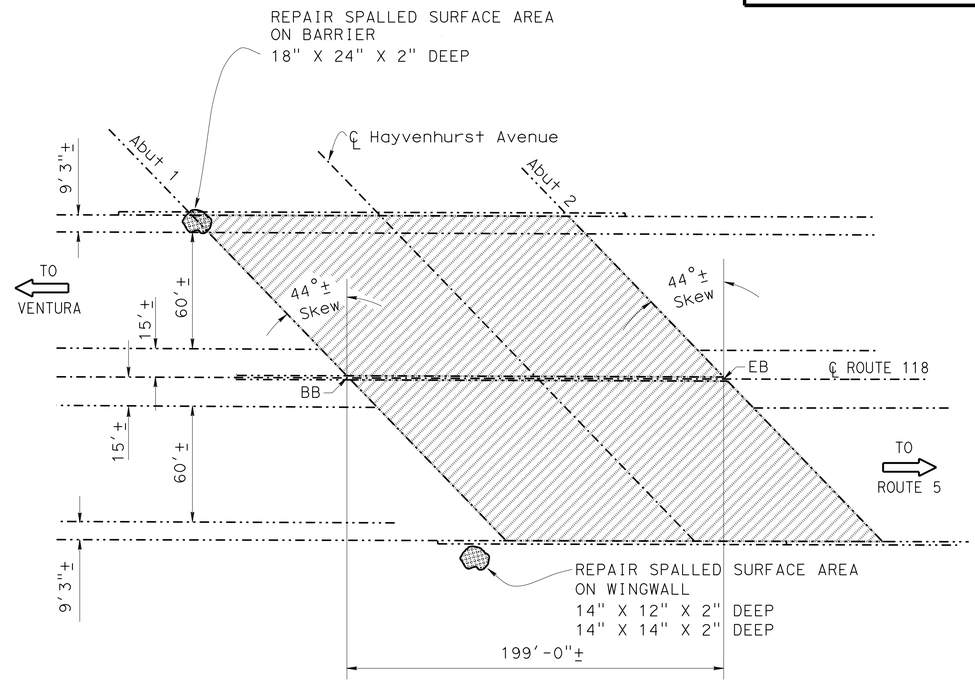
INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.



BALBOA BOULEVARD OC

Br No. 53-2395, Rte 118, PM R7.8
1'=30'

BALBOA BOULEVARD OC QUANTITIES	BRIDGE NO. 53-2395
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	27,400 SQFT
TREAT BRIDGE DECK	27,400 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	343 GAL



HAYVENHURST AVENUE UC

Br No. 53-2204, Rte 118, PM R8.34
1"=40'

HAYVENHURST AVENUE UC QUANTITIES	BRIDGE NO. 53-2204
PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	5 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	43,060 SQFT
TREAT BRIDGE DECK	43,060 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	539 GAL

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

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Mazin Ibrahim	Ramesh Patel			
DETAILS	Eugene Goishi	Ramesh Patel	LAYOUT	Eugene Goishi	Ramesh Patel
QUANTITIES	Mazin Ibrahim	Hong-Tien Tran	SPECIFICATIONS	Xiahong Li	PLANS AND SPECS COMPARED Xiahong Li

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 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 : 0715000039-1
CONTRACT NO. 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				03	15

FILE => 07-3w0601-a-gp03.dgn

USERNAME = s125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	27	38

REGISTERED CIVIL ENGINEER — DATE 12/23/15

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mazin 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:

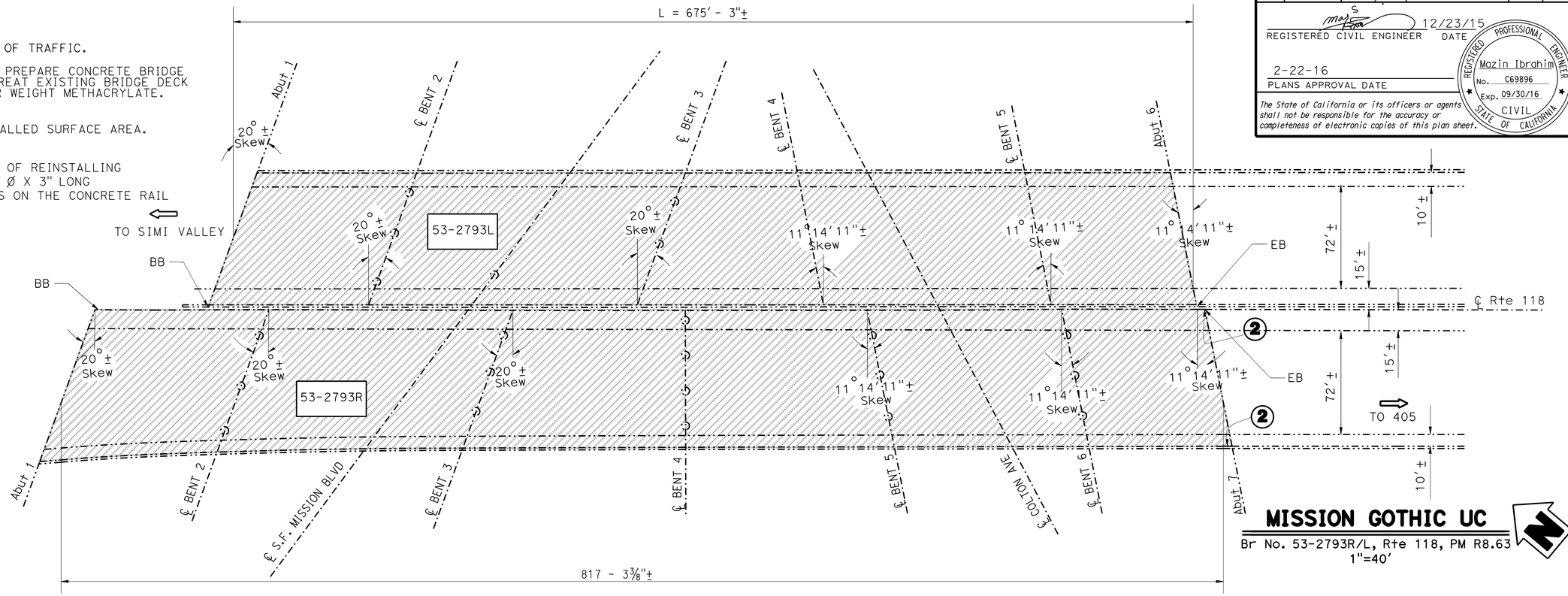
INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

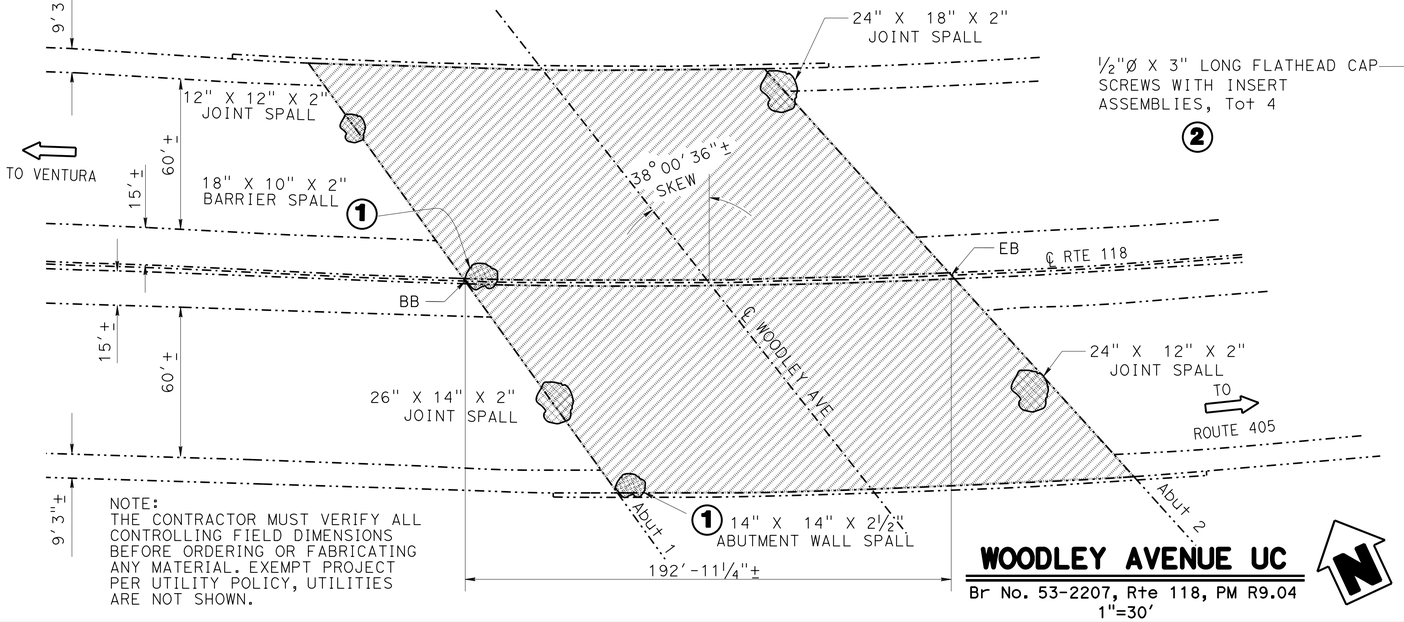
① INDICATES REPAIR SPALLED SURFACE AREA.

② INDICATES LOCATIONS OF REINSTALLING THE 4 FLAT HEAD ½" Ø X 3" LONG FLATHEAD CAP SCREWS ON THE CONCRETE RAIL STEEL PLATE.



MISSION GOTHIC UC

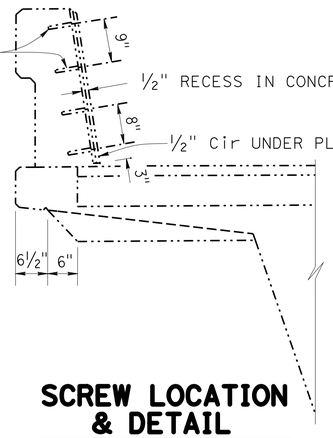
Br No. 53-2793R/L, Rte 118, PM R8.63
1"=40'



WOODLEY AVENUE UC

Br No. 53-2207, Rte 118, PM R9.04
1"=30'

½"Ø X 3" LONG FLATHEAD CAP SCREWS WITH INSERT ASSEMBLIES, Tot 4 ②



SCREW LOCATION & DETAIL

NO SCALE

MISSION GOTHIC UC — BRIDGE NO. 53-2793L

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	79,300 SQFT
TREAT BRIDGE DECK	79,300 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	991 GAL

MISSION GOTHIC UC — BRIDGE NO. 53-2793R

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	65,500 SQFT
TREAT BRIDGE DECK	65,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	819 GAL
INSTALL CAP SCREW	8 EA

WOODLEY AVENUE UC — BRIDGE NO. 53-2207

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	1 CF
REPAIR SPALLED SURFACE AREA	4 SQFT
REMOVE UNSOUND CONCRETE	1 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	32,520 SQFT
TREAT BRIDGE DECK	32,520 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	407 GAL

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Mazin Ibrahim	Ramesh Patel			
DETAILS	Eugene Goishi	Ramesh Patel	LAYOUT	Eugene Goishi	Ramesh Patel
QUANTITIES	Mazin Ibrahim	Hong-Tien Tran	SPECIFICATIONS	Xiahong Li	PLANS AND SPECS COMPARED Xiahong Li

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 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 : 0715000039-1
CONTRACT NO. 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				04	15

FILE => 07-3w0601-a-gp04.dgn

USERNAME => s125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	28	38

REGISTERED CIVIL ENGINEER — DATE 12/23/15

PROFESSIONAL ENGINEER — Mazin Ibrahim — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

2-22-16
PLANS APPROVAL DATE

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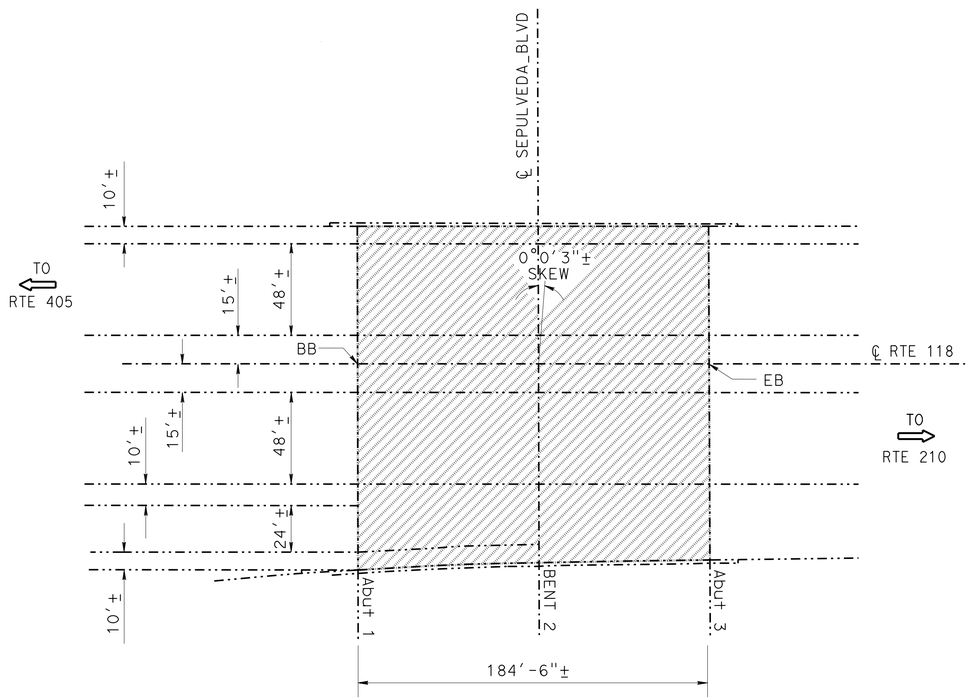
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL.

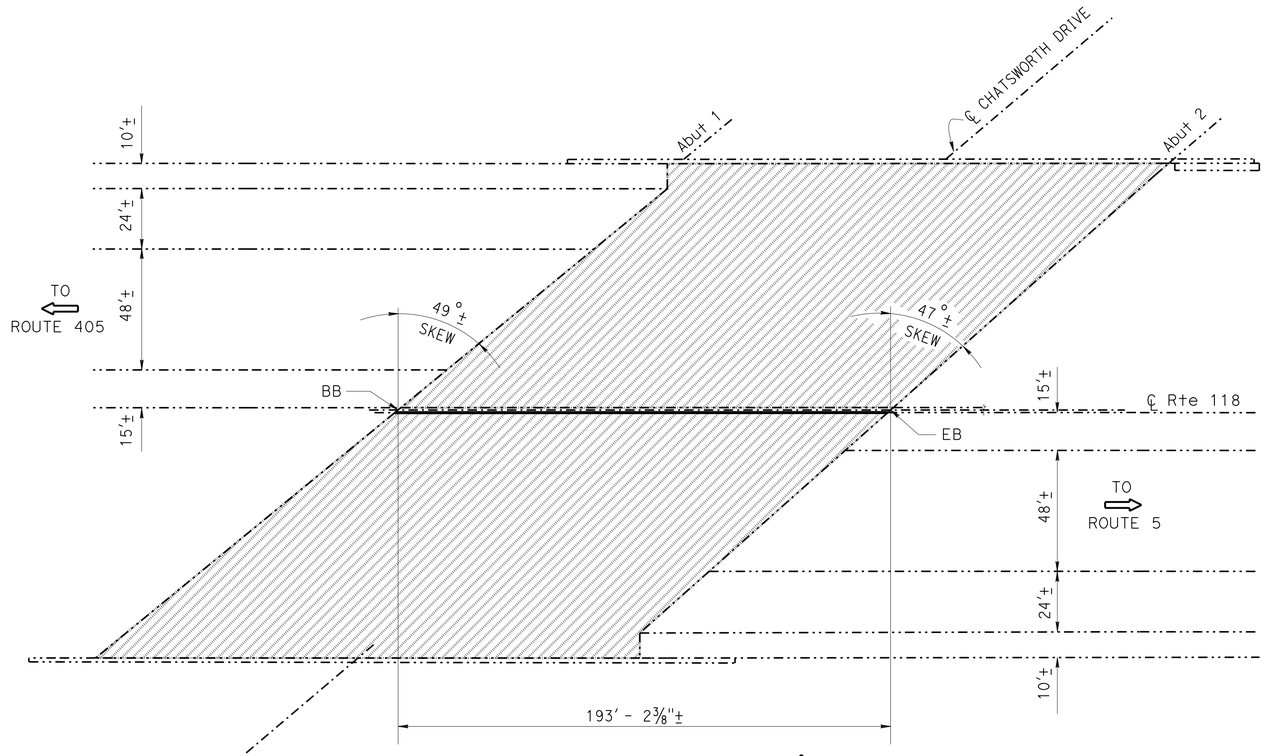


SEPULVEDA BLVD UC

Br No. 53-2213, Rte 118, PM R10.07
1"=40′

N

SEPULVEDA BOULEVARD UC QUANTITIES	BRIDGE NO. 53-2213
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	33,210 SQFT
TREAT BRIDGE DECK	33,210 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	416 GAL



CHATSWORTH DRIVE UC

Br No. 53-2214, Rte 118, PM R10.51
1"=30′

N

CHATSWORTH DRIVE UC QUANTITIES	BRIDGE NO. 53-2214
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	37,500 SQFT
TREAT BRIDGE DECK	37,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	469 GAL
CLEAN EXPANSION JOINT	193 LF
JOINT SEAL (TYPE AL)	193 LF

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

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Eugene Goishi	CHECKED Ramesh Patel	LAYOUT	BY Eugene Goishi	CHECKED Ramesh Patel
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong-Tien Tran	SPECIFICATIONS	BY Xiahong Li	PLANS AND SPECS COMPARED Xiahong Li

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 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 : 0715000039-1
CONTRACT NO. 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				05	15

FILE => 07-3w0601-a-gp05.dgn

USERNAME => s1125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 S 170,405	Var	29	38

REGISTERED CIVIL ENGINEER — DATE 12/23/15

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mazin Ibrahim — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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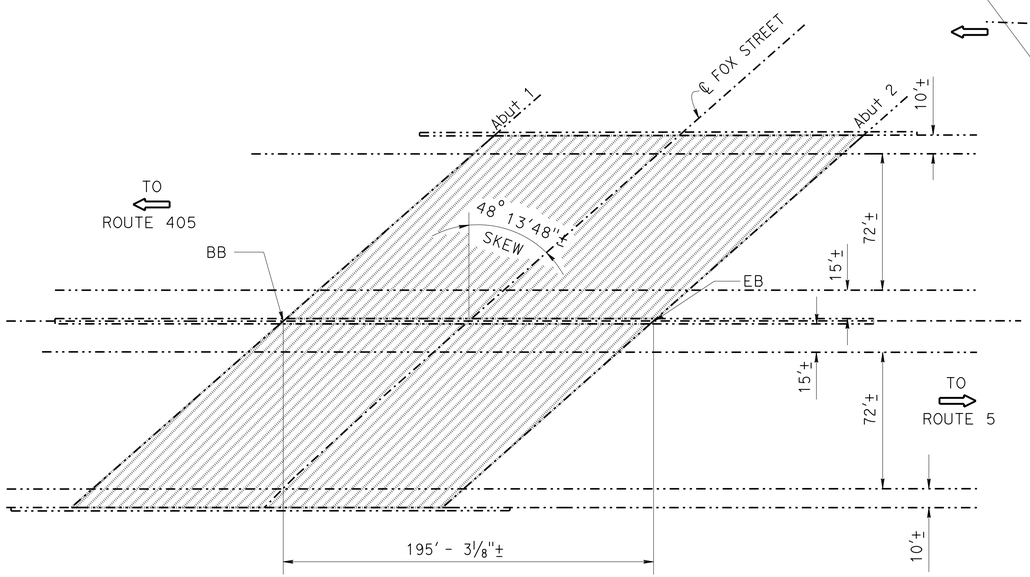
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.



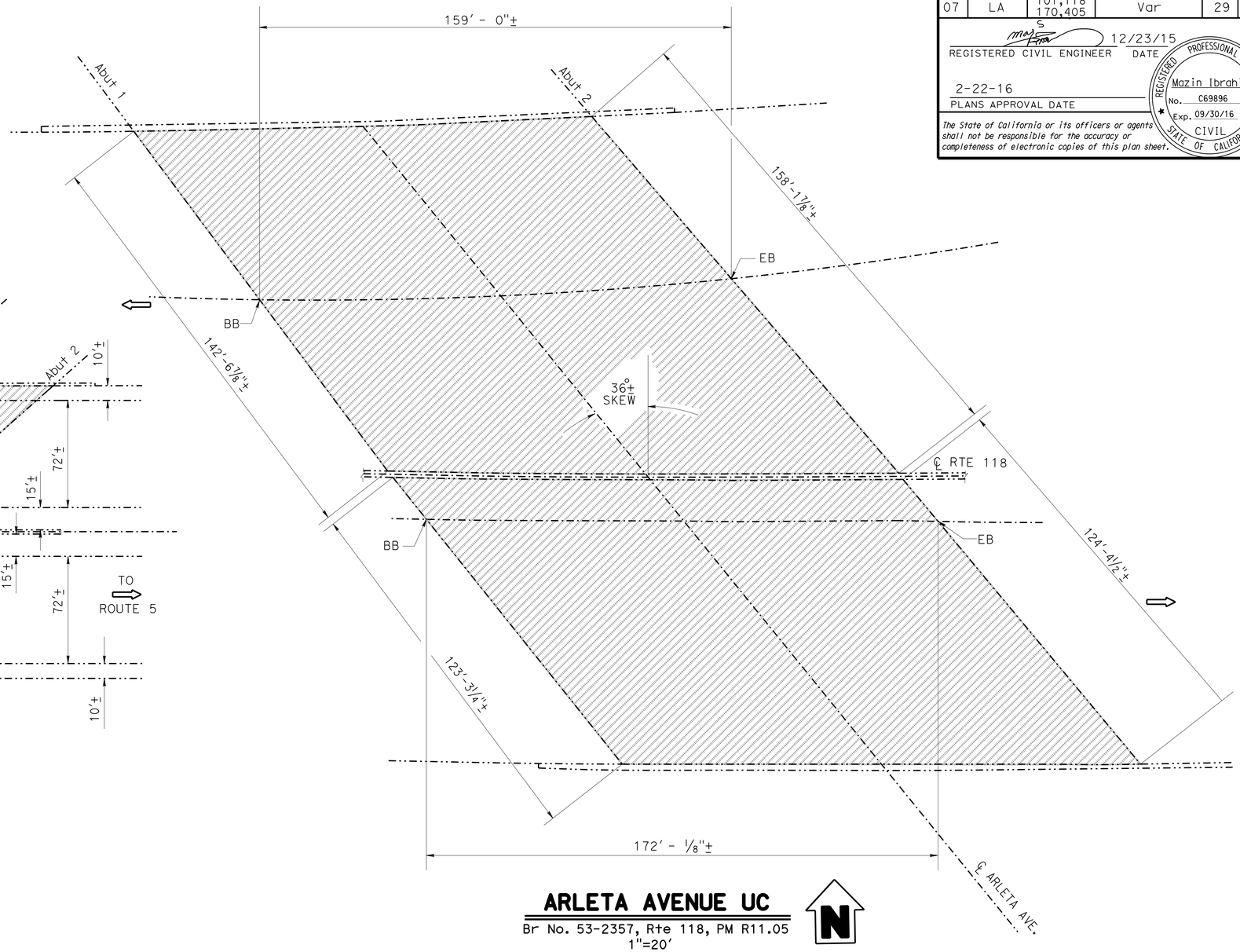
FOX STREET UC

Br No. 53-2215, Rte 118, PM R10.83
1"=40'

FOX STREET OC — BRIDGE NO. 53-2215

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	37,900 SQFT
TREAT BRIDGE DECK	37,900 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	474 GAL



ARLETA AVENUE UC

Br No. 53-2357, Rte 118, PM R11.05
1"=20'

ARLETA AVENUE UC — BRIDGE NO. 53-2357

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	36,770 SQFT
TREAT BRIDGE DECK	36,770 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	460 GAL

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

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Eugene Goishi	CHECKED Ramesh Patel	LAYOUT	BY Eugene Goishi	CHECKED Ramesh Patel	
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong-Tien Tran	SPECIFICATIONS	BY Xiahong Li	PLANS AND SPECS COMPARED Xiahong Li	

TONY D. BRAKE
DESIGN ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 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 : 0715000039-1
CONTRACT NO. 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
12-23-15				06	15

FILE => 07-3w0601-a-gp06.dgn

USERNAME => s1256624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	30	38

12/23/15
REGISTERED CIVIL ENGINEER — DATE

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mazin Ibrahim — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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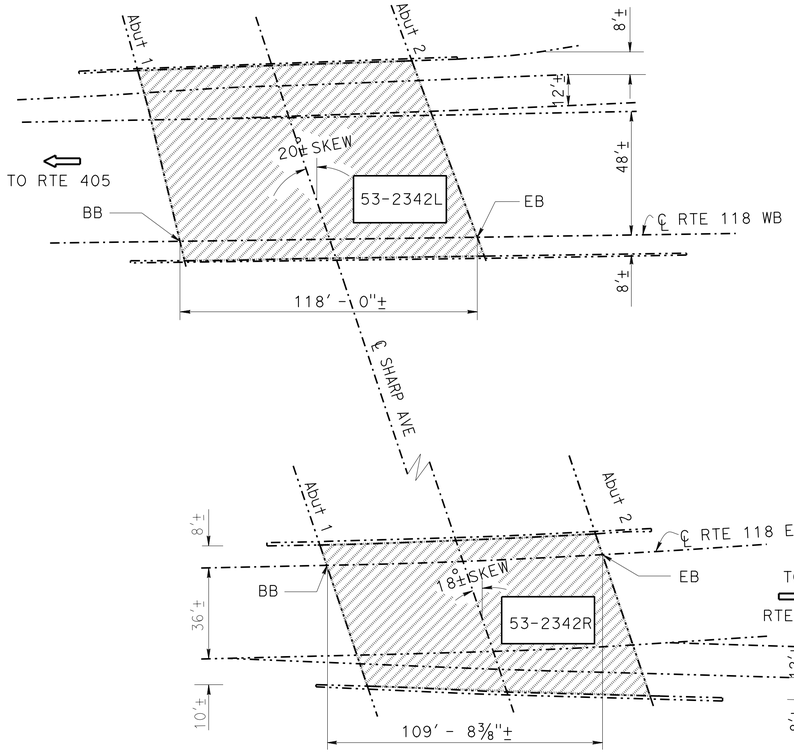
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL.



SHARP AVENUE UC

Br No. 53-2342R/L, Rte 118, PM R11.31
1"=30'

SHARP AVENUE UC — BRIDGE NO. 53-2342L

QUANTITIES

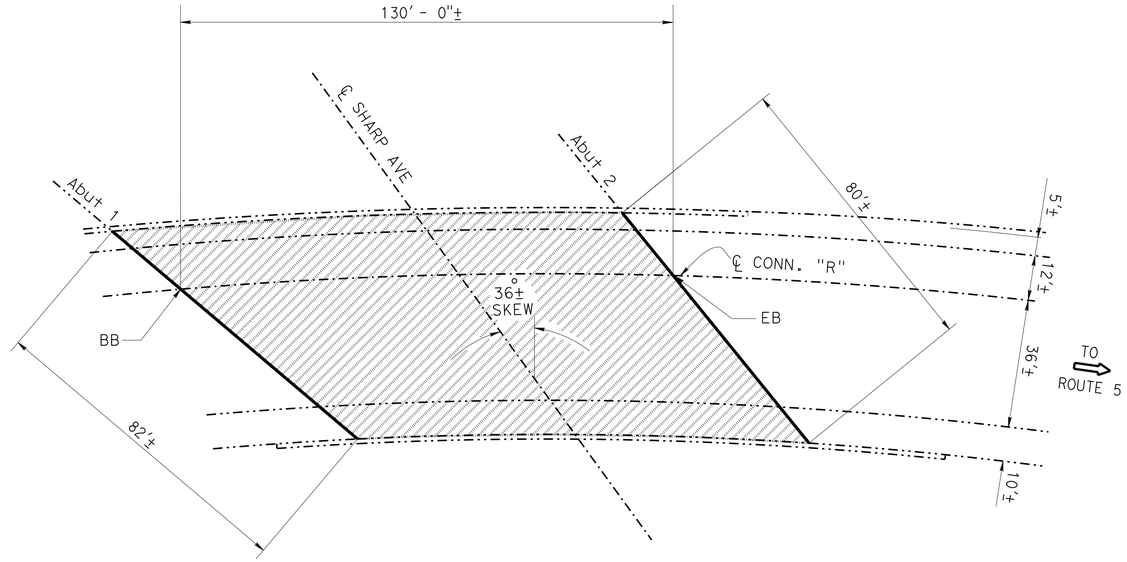
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	8,970 SQFT
TREAT BRIDGE DECK	8,970 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	113 GAL

SHARP AVENUE UC — BRIDGE NO. 53-2342R

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	6,480 SQFT
TREAT BRIDGE DECK	6,480 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	81 GAL

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



E118-S5 CONNECTOR OC

Br No. 53-2343G, Rte 118, PM R11.32
1"=20'

E118-S5 CONNECTOR OC — BRIDGE NO. 53-2343G

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	8,200 SQFT
TREAT BRIDGE DECK	8,200 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	103 GAL
CLEAN EXPANSION JOINT	162 LF
JOINT SEAL (MR 1/2")	162 LF

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Eugene Goishi	CHECKED Ramesh Patel	LAYOUT	BY Eugene Goishi	CHECKED Ramesh Patel	
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong-Tien Tran	SPECIFICATIONS	BY Xiahong Li	PLANS AND SPECS COMPARED Xiahong Li	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 BRIDGES
GENERAL PLAN NO. 7

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 : 0715000039-1
CONTRACT NO. 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				07	15

FILE => 07-3w0601-a-gp07.dgn

USERNAME => s125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	31	38

REGISTERED CIVIL ENGINEER — DATE 12/23/15

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mazin Ibrahim — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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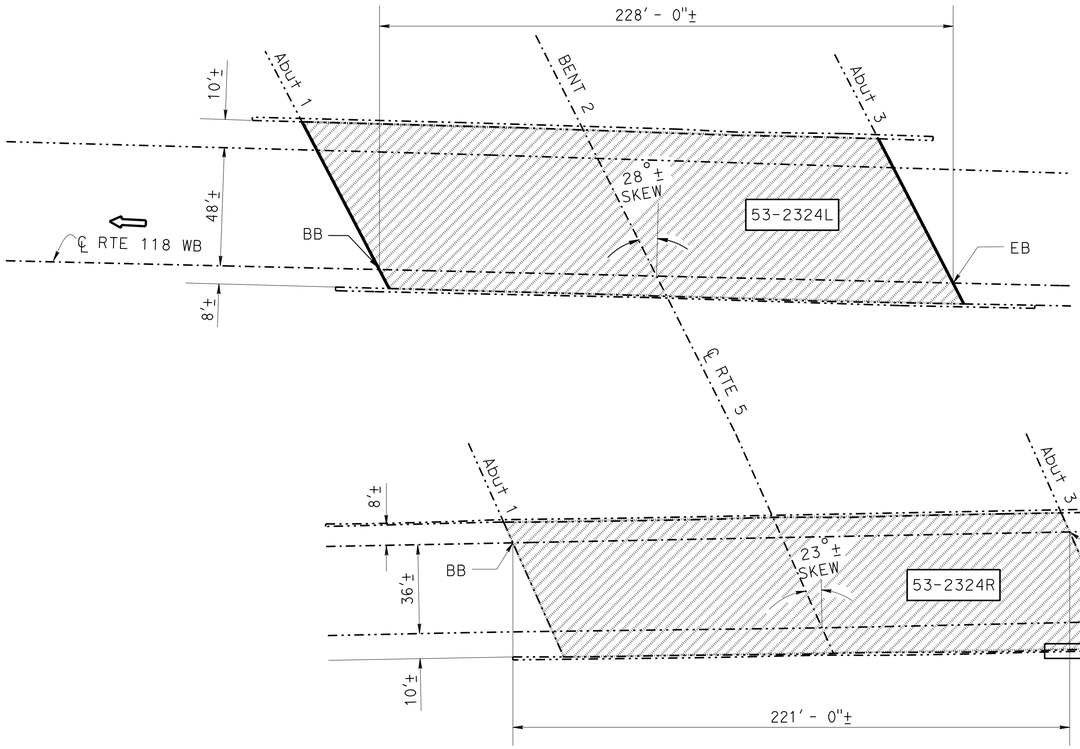
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

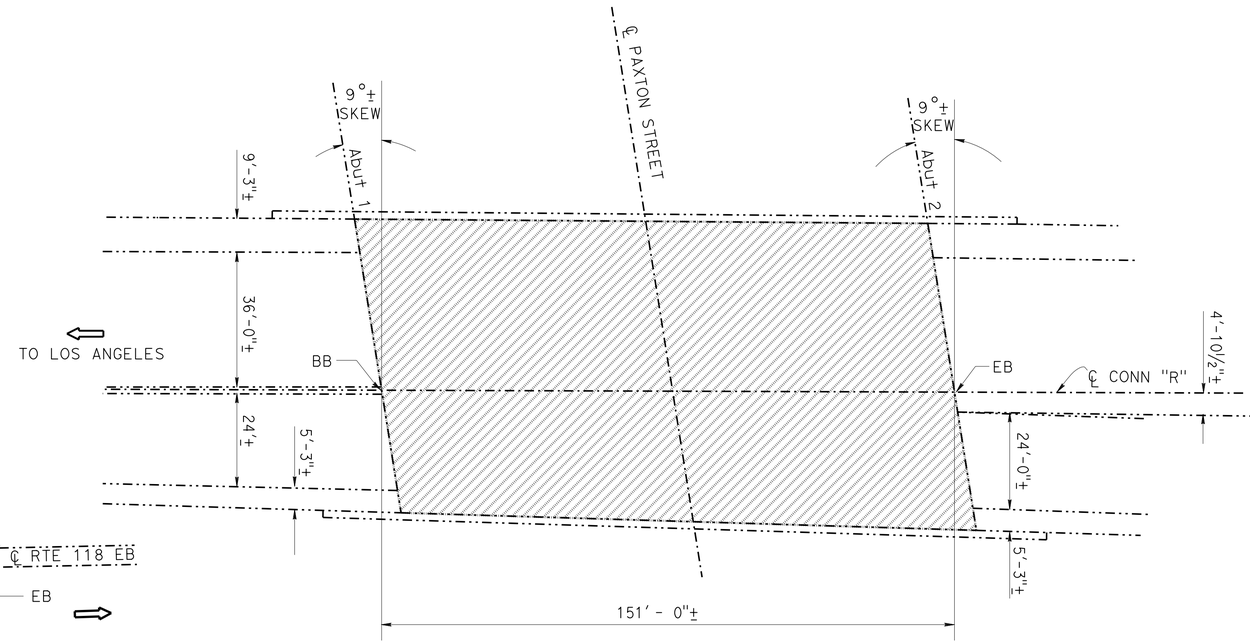
INDICATES LIMITS OF PREPARE CONCRETE APPROACH SLAB SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL.



ROUTE 118/5 SEPARATION

Br No. 53-2324R/L, Rte 118, PM R11.42
1"=30′



PAXTON STREET UC

Br No. 53-1127H, Rte 118, PM R11.42
1"=20′

PAXTON STREET UC — BRIDGE NO. 53-1127H

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	11,250 SQFT
TREAT BRIDGE DECK	11,250 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	141 GAL

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

ROUTE 118/5 SEPARATION — BRIDGE NO. 53-2324L

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	15,050 SQFT
TREAT BRIDGE DECK	15,050 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	189 GAL
CLEAN EXPANSION JOINT	150 LF
JOINT SEAL (MR=1½")	150 LF

ROUTE 118/5 SEPARATION — BRIDGE NO. 53-2324R

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	2 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	11,950 SQFT
TREAT BRIDGE DECK	11,950 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	150 GAL

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Eugene Goishi	CHECKED Ramesh Patel	LAYOUT	BY Eugene Goishi	CHECKED Ramesh Patel	
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong-Tien Tran	SPECIFICATIONS	BY Xiahong Li	PLANS AND SPECS COMPARED Xiahong Li	

TONY D. BRAKE
DESIGN ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 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 : 0715000039-1
CONTRACT NO. 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				08	15

FILE => 07-3w0601-a-gp08.dgn

USERNAME => s125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	32	38

REGISTERED CIVIL ENGINEER — DATE 12/23/15

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mazin Ibrahim — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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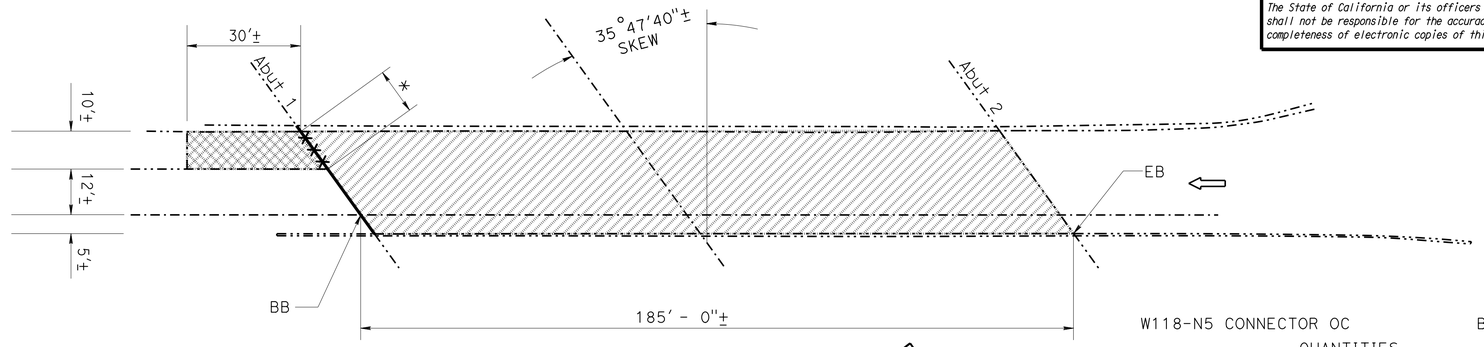
LEGEND:

- INDICATES EXISTING.
- INDICATES DIRECTION OF TRAFFIC.
- INDICATES LOCATION OF NEW JOINT SEAL
- INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL.
- INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
- INDICATES LIMITS OF STRUCTURE CONCRETE, APPROACH SLAB TYPE R(30D).
- INDICATES LIMITS OF PAVING NOTCH EXTENSION.
- (1) INDICATES LIMITS OF REPAIR SPALLED SURFACE AREA ON BARRIER.



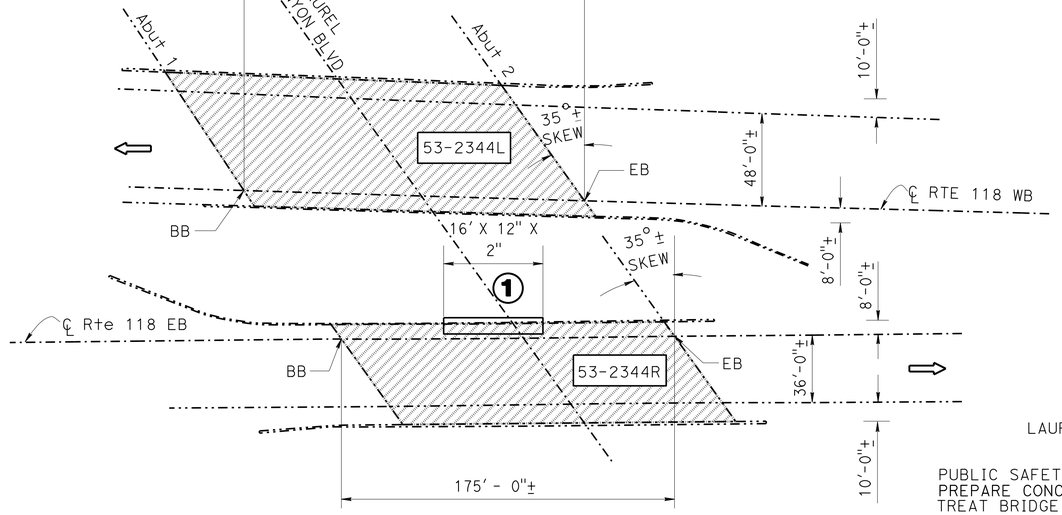
W118-N5 CONNECTOR OC

Br No. 53-2345F, Rte 118, PM R11.56
1"=20'

W118-N5 CONNECTOR OC — BRIDGE NO. 53-2345F

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	5,000 SQFT
TREAT BRIDGE DECK	5,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	63 GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	16 CY
PAVING NOTCH EXTENSION	10 CF
CLEAN EXPANSION JOINT	21 LF
JOINT SEAL (MR 1½")	34 LF



LAUREL CANYON BOULEVARD UC

Br No. 53-2344R/L, Rte 118, PM R11.57
1"=40'

LAUREL CANYON BOULEVARD UC — BRIDGE NO. 53-2344L

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	11,900 SQFT
TREAT BRIDGE DECK	11,900 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	149 GAL

LAUREL CANYON BOULEVARD UC — BRIDGE NO. 53-2344R

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	16 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	9,450 SQFT
TREAT BRIDGE DECK	9,450 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	119 GAL

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

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Eugene Goishi	CHECKED Ramesh Patel	LAYOUT	BY Eugene Goishi	CHECKED Ramesh Patel	
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong-Tien Tran	SPECIFICATIONS	BY Xiahong Li	PLANS AND SPECS COMPARED Xiahong Li	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 BRIDGES
GENERAL PLAN NO. 9

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 : 0715000039-1
CONTRACT NO. 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				09	15

FILE => 07-3w0601-a-gp09.dgn

USERNAME => s125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	33	38

12/23/15
REGISTERED CIVIL ENGINEER — DATE

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mazin Ibrahim — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

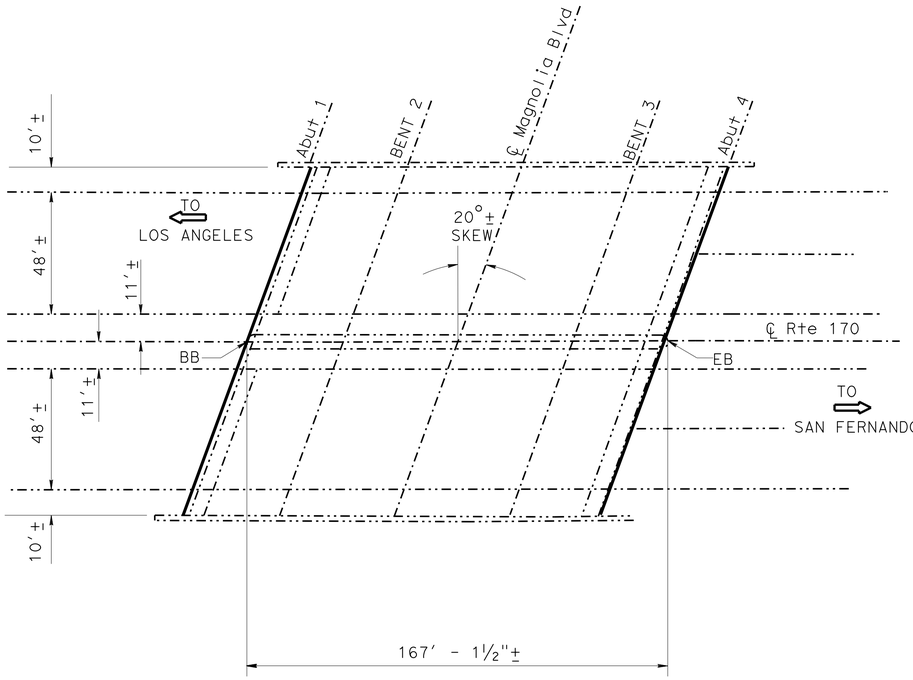
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL.



MAGNOLIA BLVD UC

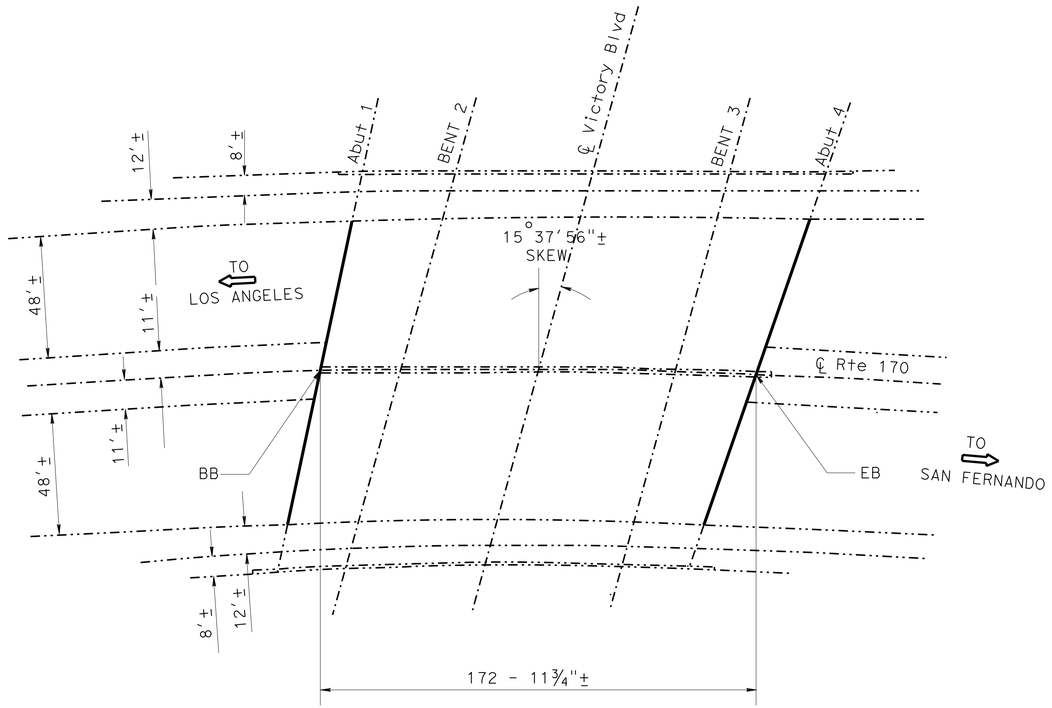
Br No. 53-1503, Rte 170, PM R15.37
1′=30′

MAGNOLIA BOULEVARD UC — BRIDGE NO. 53-1503

QUANTITIES

CLEAN EXPANSION JOINT	294 LF
JOINT SEAL (MR 1")	294 LF

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



VICTORY BOULEVARD UC

Br No. 53-1687, Rte 170, PM R17.25
1"=30′

VICTORY BOULEVARD UC — BRIDGE NO. 53-1687

QUANTITIES

CLEAN EXPANSION JOINT	246 LF
JOINT SEAL (MR 1")	246 LF

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Eugene Goishi	CHECKED Ramesh Patel	LAYOUT	BY Eugene Goishi	CHECKED Ramesh Patel
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong-Tien Tran	SPECIFICATIONS	BY Xiahong Li	PLANS AND SPECS COMPARED Xiahong Li

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 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 : 0715000039-1
CONTRACT NO. 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				10	15

FILE => 07-3w0601-a-gp10.dgn

USERNAME => s125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	34	38

REGISTERED CIVIL ENGINEER — DATE 12/23/15

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mazin Ibrahim — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

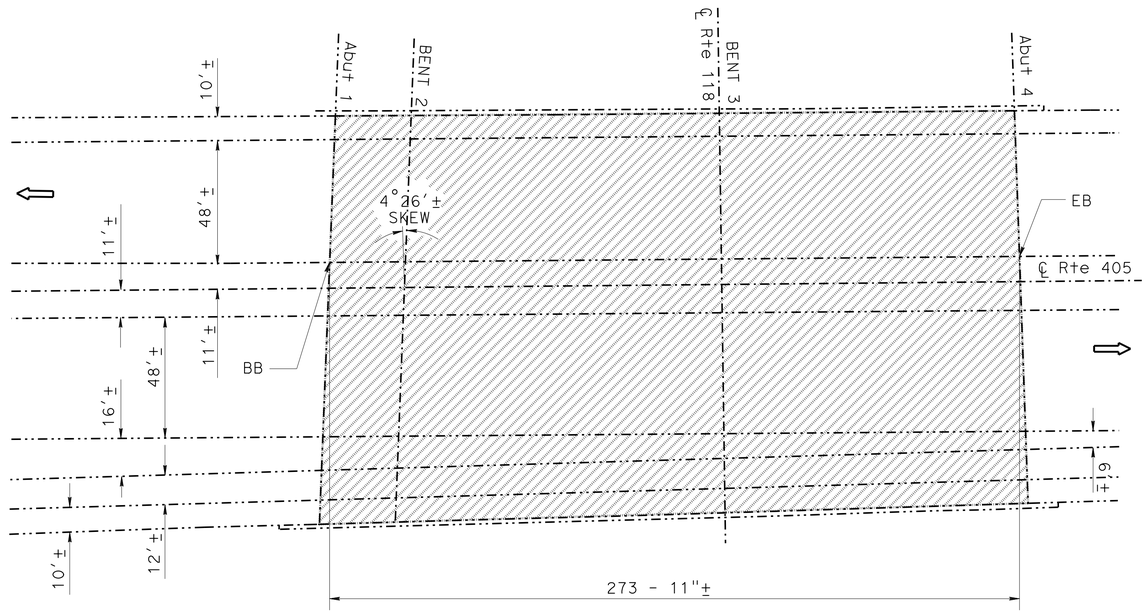
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT EXISTING BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.



ROUTE 405/118 SEPARATION

Br No. 53-2211 Rte 405, PM 46.83
1"=30'

ROUTE 405/118 SEPARATION — BRIDGE NO. 53-2211

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	44,100 SQFT
TREAT BRIDGE DECK	44,100 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	552 GAL

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

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Mazin Ibrahim	Ramesh Patel
DETAILS	Eugene Goishi	Ramesh Patel
QUANTITIES	Mazin Ibrahim	Hong-Tien Tran

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

	BY	CHECKED
LAYOUT	Eugene Goishi	Ramesh Patel
SPECIFICATIONS	Xiahong Li	PLANS AND SPECS COMPARED Xiahong Li

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 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 : 0715000039-1
CONTRACT NO. 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				11	15

FILE => 07-3w0601-a-gp11.dgn

USERNAME => s1256224 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	35	38

12/23/15
REGISTERED CIVIL ENGINEER — DATE

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mazin Ibrahim — 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 LENGTH OF JOINT SEALS (FEET)	APPROX LENGTH TO CLEAN EXP JOINT (FEET)
TUJUNGA WASH BRIDGE	53-1337	* BENT #2	2	NO	9	278	278
		* BENT #3	2	NO	9	278	278
CHATSWORTH DRIVE UC	53-2214	AL (MEDIAN BARRIER)	½	NO	6	193	193
E118-S5 CONNECTOR OC	53-2343G	ABUT #1	½	NO	9	82	82
		ABUT #2	½	NO	9	80	80
ROUTE 118/5 SEPARATION	53-2324L	ABUT #1	1½	NO	9	75	75
		ABUT #3	1½	NO	9	75	75
W118-N5 CONNECTOR OC	53-2345F	ABUT #1	1½	NO	9	34	21
MAGNOLIA BLVD UC	53-1503	ABUT #1	1	NO	9	147	147
		ABUT #4	1	NO	9	147	147
VICTORY BLVD UC	53-1687	ABUT #1	1	NO	9	123	123
		ABUT #5	1	NO	9	123	123

* BONDED JOINT SEAL

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 RSP B6-21 sheet.

The following notes apply to JOINT SEAL TYPE B:

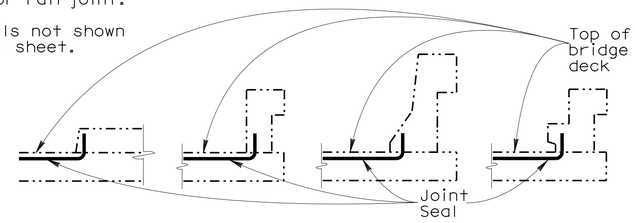
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

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

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

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

For details not shown see B6-21 sheet.

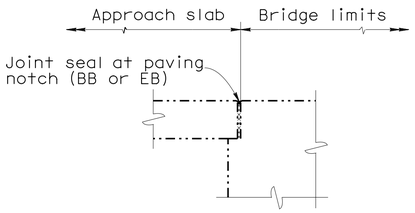


BARRIER RAIL

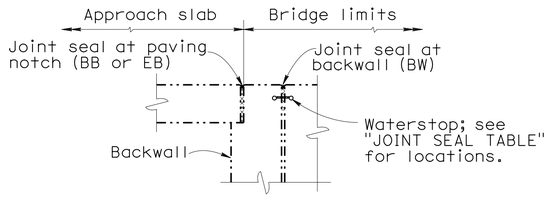
JOINT SEAL AT LOW SIDE OF DECK

Note: Details shown for illustration purposes only.

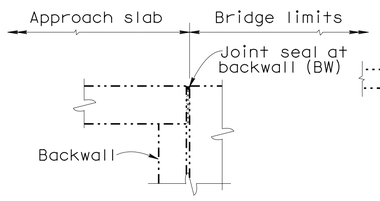
For use only where deck joint matches the sidewalk, curb or barrier rail joint.



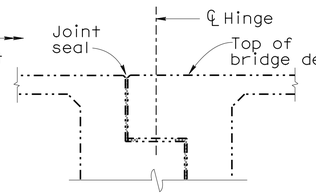
DIAPHRAGM ABUTMENT



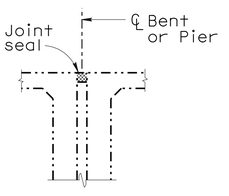
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

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

JOINT SEAL LOCATION

NO SCALE

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Eugene Goishi	CHECKED Ramesh Patel	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong-Tien Tran	BRIDGE NO. Various; POST MILE Varies

ROUTE 101, 118, 170, 405 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: 0715000039-1 CONTRACT NO.: 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				12	15

FILE => 07-3w0601-c-miscdtls01.dgn

USERNAME => s125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 08:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	36	38

REGISTERED CIVIL ENGINEER — DATE 12/23/15

2-22-16
PLANS APPROVAL DATE

Mazin Ibrahim
No. C69896
Exp. 09/30/16
CIVIL
STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER

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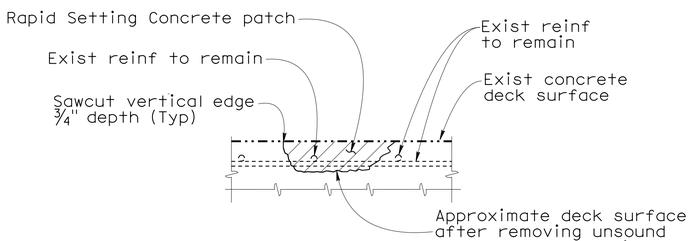
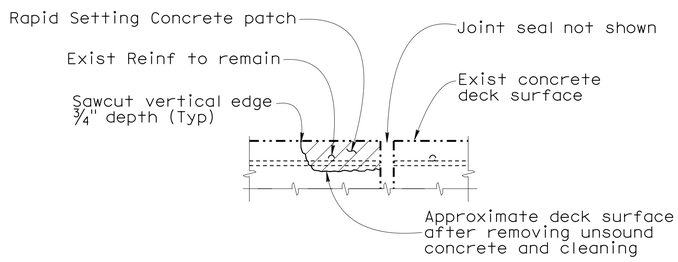


DECK DAMAGE REPAIR DETAIL

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

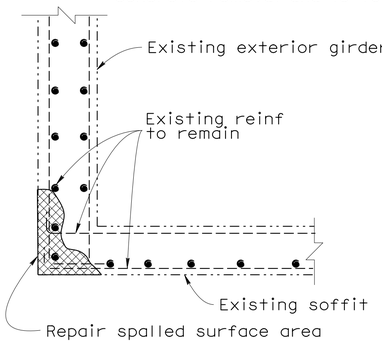


JOINT DAMAGE REPAIR DETAIL

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

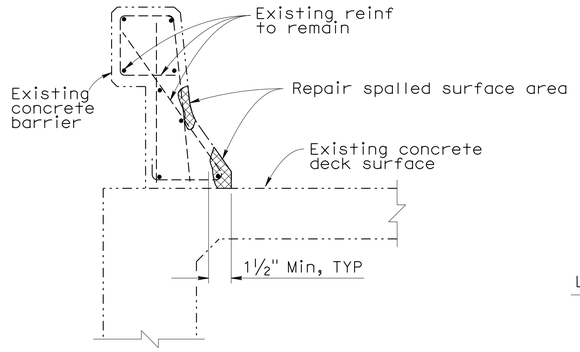
DECK REPAIR NOTES:

1. Existing reinforcement shall be located and 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 3/4 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.



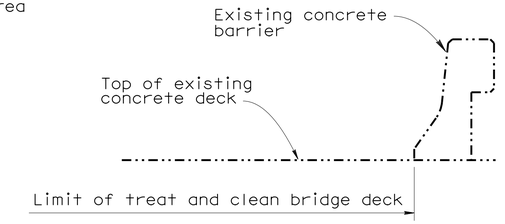
HIGH HIT SPALL REPAIR DETAIL

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

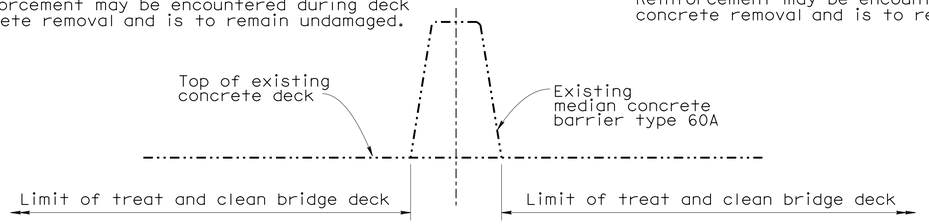


CONCRETE BARRIER SPALL REPAIR DETAIL

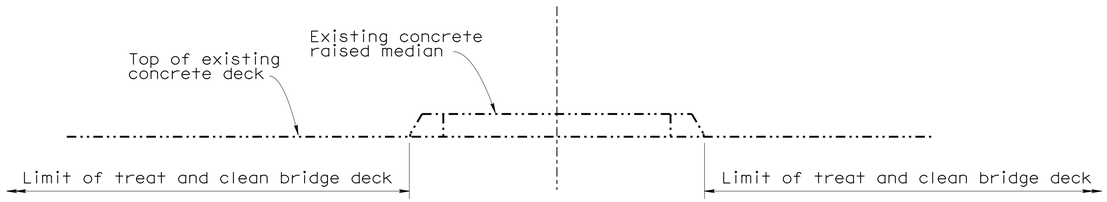
Location will be determined by the Engineer.
Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



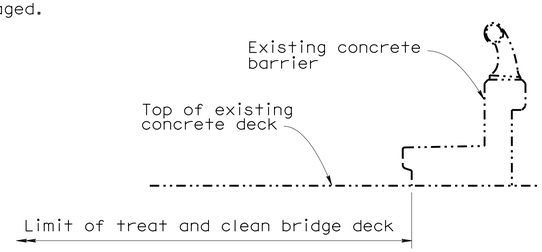
EOD BARRIER



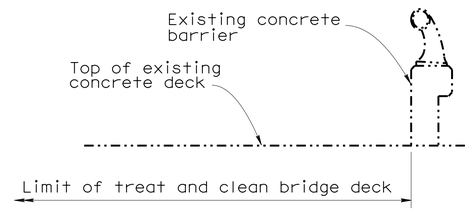
MEDIAN BARRIER



RAISED MEDIAN



SIDEWALK BARRIER TYPE 2



SIDEWALK BARRIER TYPE 1

TYPICAL LIMITS OF DECK WORK

NO SCALE

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

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various
DETAILS	BY Eugene Goishi	CHECKED Ramesh Patel			POST MILE Varies
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong-Tien Tran			

ROUTE 101, 118, 170, 405 BRIDGES
MISCELLANEOUS DETAILS NO. 2

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: 0715000039-1 CONTRACT NO.: 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-23-15				13	15

FILE => 07-3w0601-c-miscdtls02.dgn

USERNAME => s125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	37	38

REGISTERED CIVIL ENGINEER — DATE 12/23/15

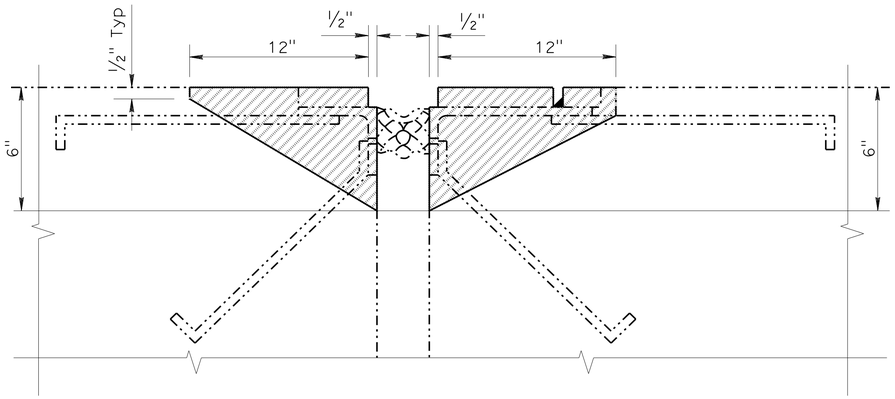
2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mazin 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 BRIDGE REMOVAL PORTION PRESERVE EXISTING REINFORCEMENT.
- INDICATES RAPID STRENGTH CONCRETE.
- INDICATES EXISTING REINFORCEMENT.
- INDICATES NEW STRUCTURE.



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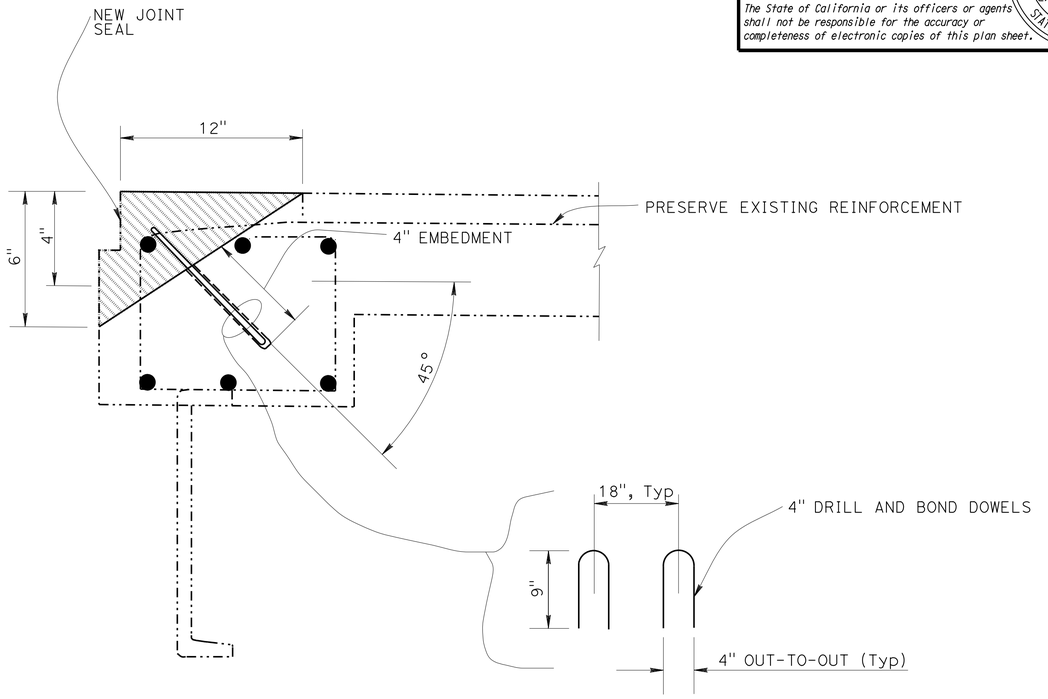


NEW CONSTRUCTION - PART

(RIGHT SIDE SHOWN LEFT SIDE SIMILAR)

JOINT RECONSTRUCTION (TUJUNGA WASH BRIDGE/Br No. 53-1337, PM 13.27)

NO SCALE

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

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Eugene Goishi	CHECKED Ramesh Patel	
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong-Tien Tran	

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 101, 118, 170, 405 BRIDGES
MISCELLANEOUS DETAILS NO. 3

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: 0715000039-1 CONTRACT NO.: 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES	SHEET	OF
12-23-15	14	15

FILE => 07-3w0601-c-miscdtls03.dgn

USERNAME => s125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 08:19

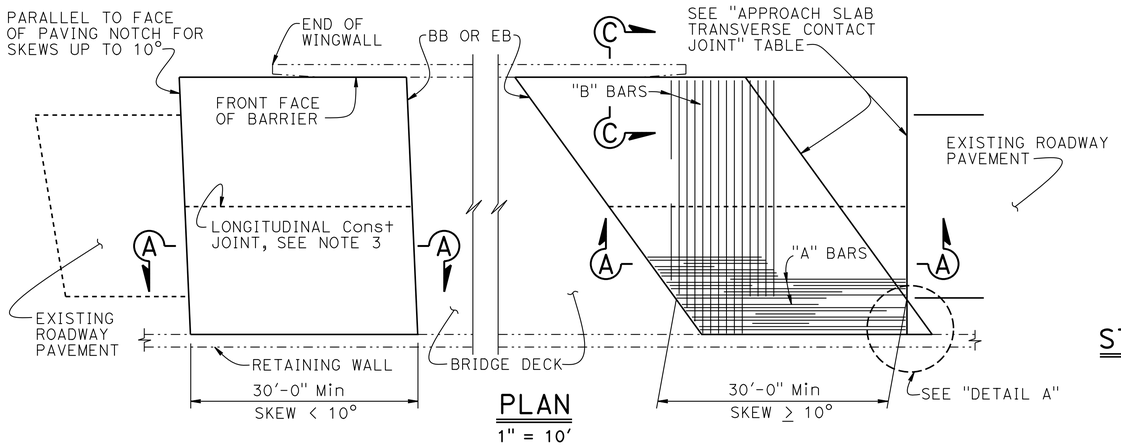
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	101,118 170,405	Var	38	38

REGISTERED CIVIL ENGINEER — 12/23/15 DATE

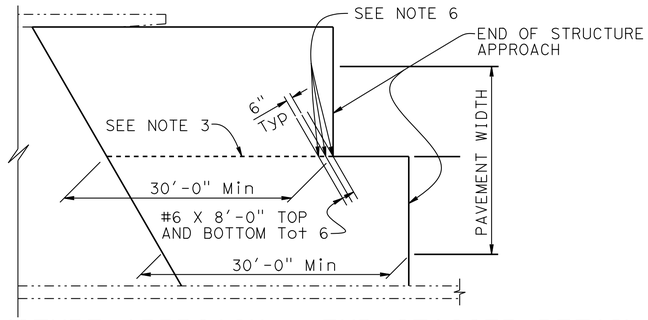
2-22-16
PLANS APPROVAL DATE

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 Ibrahim — No. C69896 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

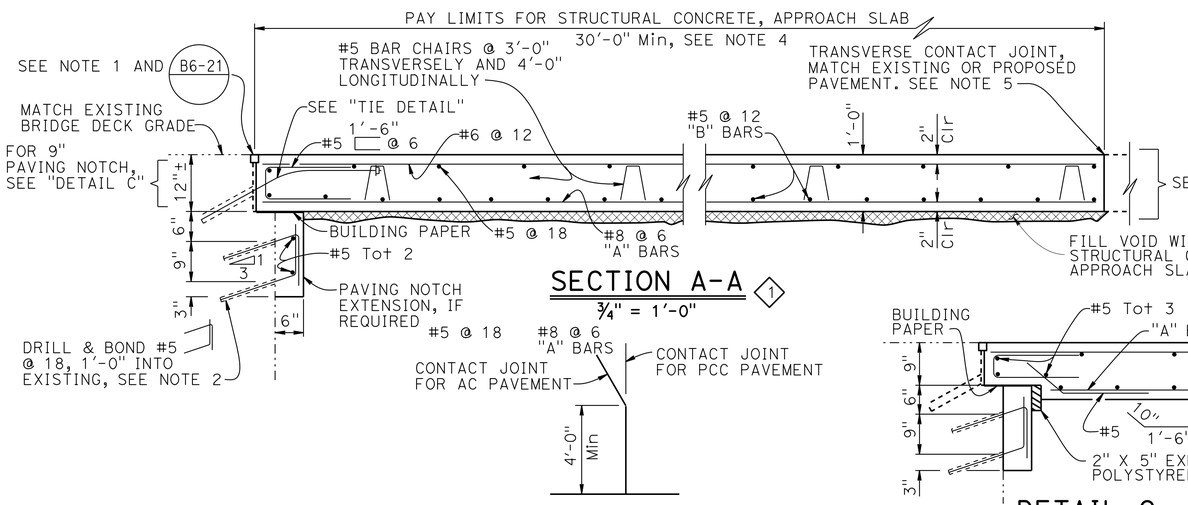


PLAN
1" = 10'



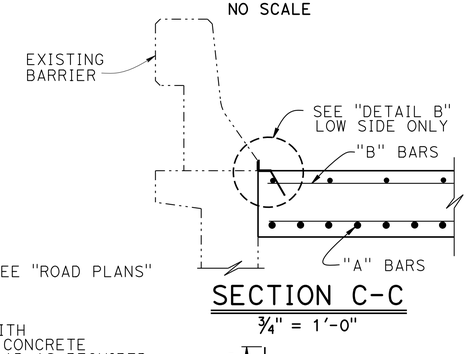
STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE

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



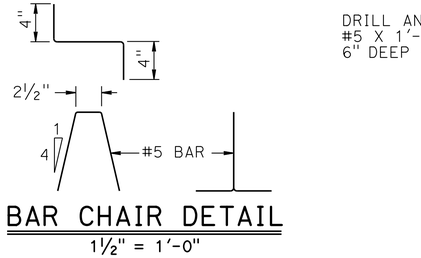
SECTION A-A ⟨1⟩
¾" = 1'-0"

DETAIL A
No Scale

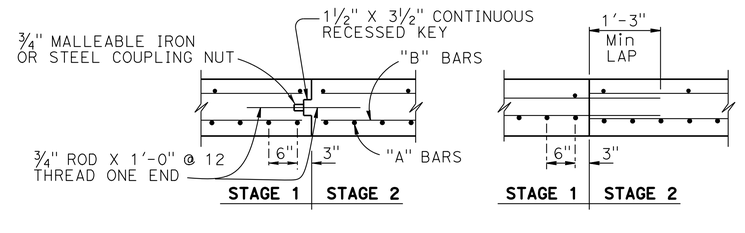


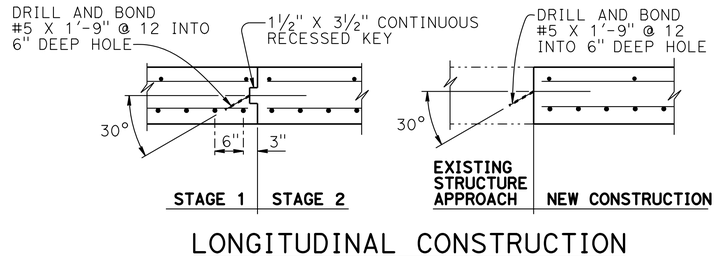
SECTION C-C
¾" = 1'-0"

DETAIL C
¾" = 1'-0"



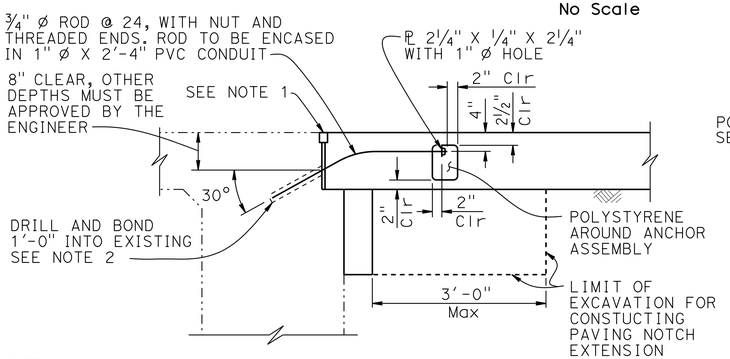
BAR CHAIR DETAIL
1½" = 1'-0"





LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
¾" = 1'-0"

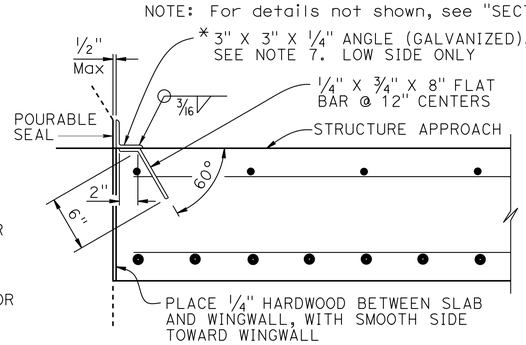
NOTES:
1. For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
2. Space to avoid existing prestress anchorages and main reinforcement
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane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



TIE DETAIL
¾" = 1'-0"

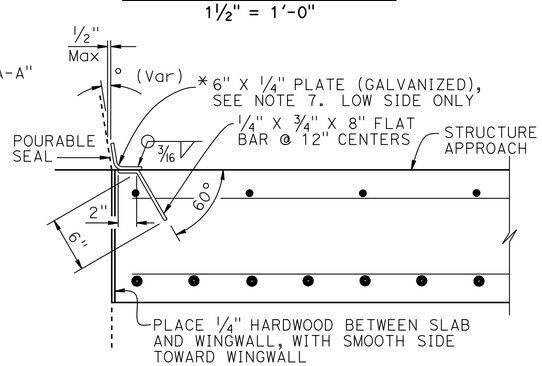
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTE: For details not shown, see "SECTION A-A"



*(TO BE USED WITH CONCRETE BARRIER WITH VERTICAL FACE)

DETAIL B
1½" = 1'-0"



*(TO BE USED WITH CONCRETE BARRIER WITH SLOPING FACE)

REVISED STANDARD DRAWING

FILE NO. xs3-150

APPROVAL DATE July 2011

⟨1⟩ REVISED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. Various
POST MILE Varies

SPECIAL DETAILS
ROUTE 101, 118 170, 405 BRIDGES
STRUCTURE APPROACH TYPE R(30D)

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0715000039
CONTRACT NO.: 07-3W0604

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
12-23-15				15	15

FILE => 07-3w0601-e-strappr30.dgn

USERNAME => s1125624 DATE PLOTTED => 23-FEB-2016 TIME PLOTTED => 09:19