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

NOTE:

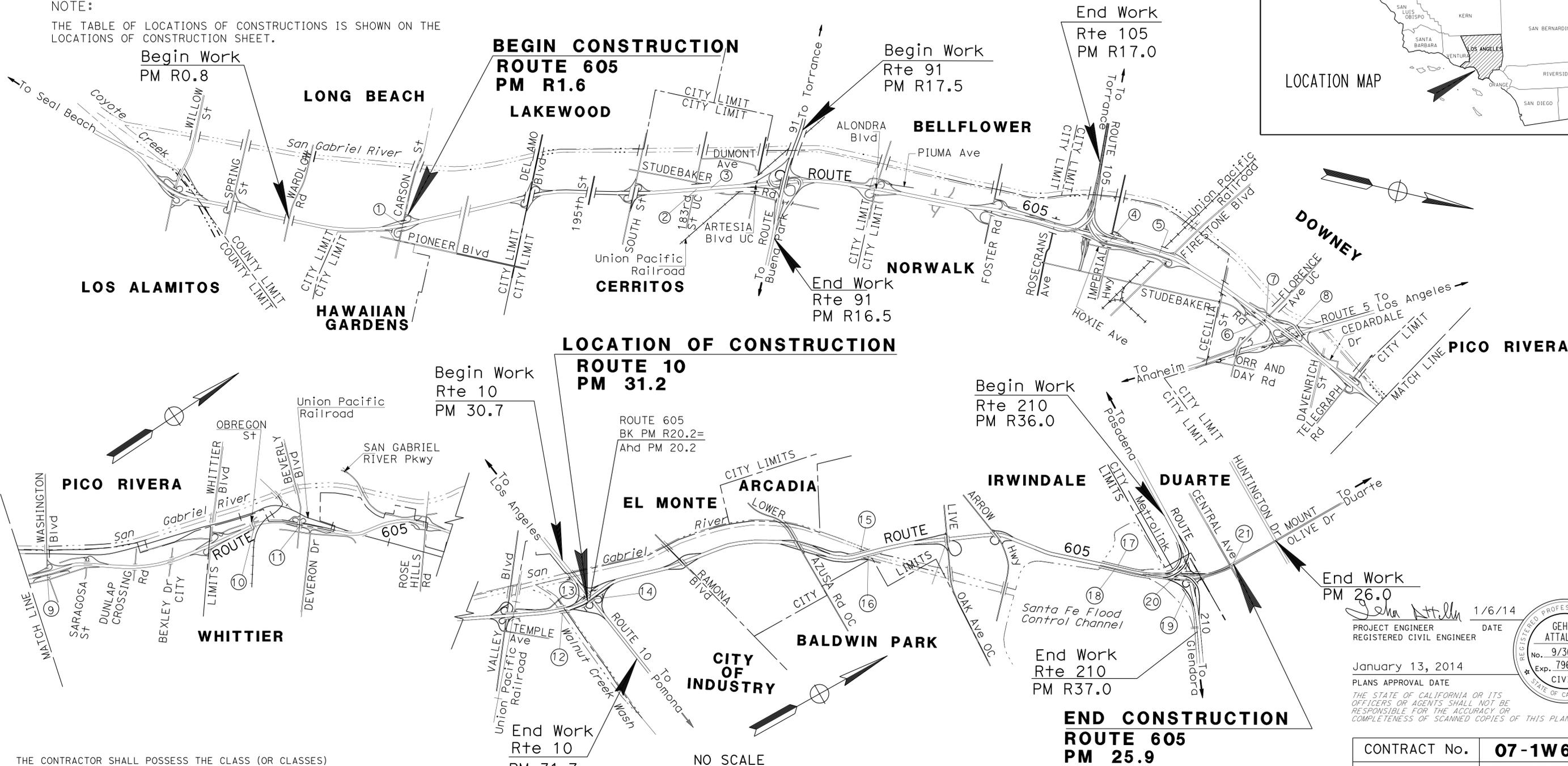
THE TABLE OF LOCATIONS OF CONSTRUCTIONS IS SHOWN ON THE LOCATIONS OF CONSTRUCTION SHEET.

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

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 605	Var	1	39

LOCATION MAP



PROJECT MANAGER
CHRISTIAN SAM

 DESIGN ENGINEER
LARRY WIERING

End Work Rte 10 PM 26.0
John Attallah 1/6/14
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER

 January 13, 2014
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
GEHAN ATTALLAH
No. 9/30/14
Exp. 79698
CIVIL
STATE OF CALIFORNIA

CONTRACT No.	07-1W6804
PROJECT ID	0713000063

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 605	Var	2	39

John Attallah 1/6/14
 REGISTERED CIVIL ENGINEER DATE
 1/13/14
 PLANS APPROVAL DATE

GEHAN ATTALLAH
 No. C79698
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

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Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR PAUL CRISPI
 CALCULATED-DESIGNED BY CHECKED BY
 GEHAN ATTALLAH LARRY WIERING
 REVISED BY DATE REVISED

LOCATIONS OF CONSTRUCTION				
No.	ROUTE	PM	BRIDGE NAME	BRIDGE NUMBER
1	605	R1.63	CARSON St-N605/N605-CARSON St RAMP SEPARATION	53-2883S
2		R4.26	183rd STREET UC	53-1711
3		R4.39	STUDEBAKER ROAD UC	53-1733
4		R7.85	IMPERIAL HIGHWAY UC	53-1651K
5		R8.23	HOXIE OVERHEAD	53-1652S
6		R9.54	FLORENCE AVENUE OFF-RAMP OC (SOUTHWEST CONNECTOR)	53-1659K
7		R9.55	ROUTE 605/5 SEPARATION	53-1660
8		R9.65	S605-S5 CONNECTOR OC	53-1083F
9		R12.05	WASHINGTON Blvd UC	53-1667
10		R13.98	OBREGON STREET OC	53-1529
11		R14.41	BEVERLY Blvd OC	53-1531
12		R19.85	WALNUT CREEK	53-1343
13		R20.09	SOUTH CONNECTOR UC (N605-W10)	53-1631G
14	10	31.18	NORTH CONNECTOR UC (E10-N605) (ROUTE 10)	53-1633G
15	605	22.68	SAN GABRIEL RIVER	53-2032L
16		22.69	SAN GABRIEL RIVER	53-2032R
17		25.09	SANTA FE FLOOD BASIN	53-2030L
18		25.09	SANTA FE FLOOD BASIN	53-2030R
19		25.55	N605-E210 CONNECTOR OH	53-1981G
20		25.56	N605-W210 CONNECTOR OH	53-1982G
21		25.98	HUNTINGTON Dr-S605/CENTRAL	53-1958K

LOCATIONS OF CONSTRUCTION

LC-1

LAST REVISION | DATE PLOTTED => 29-JAN-2014 | TIME PLOTTED => 08:21
 00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 605	Var	3	39

1/6/14
 REGISTERED CIVIL ENGINEER DATE
 1/13/14
 PLANS APPROVAL DATE

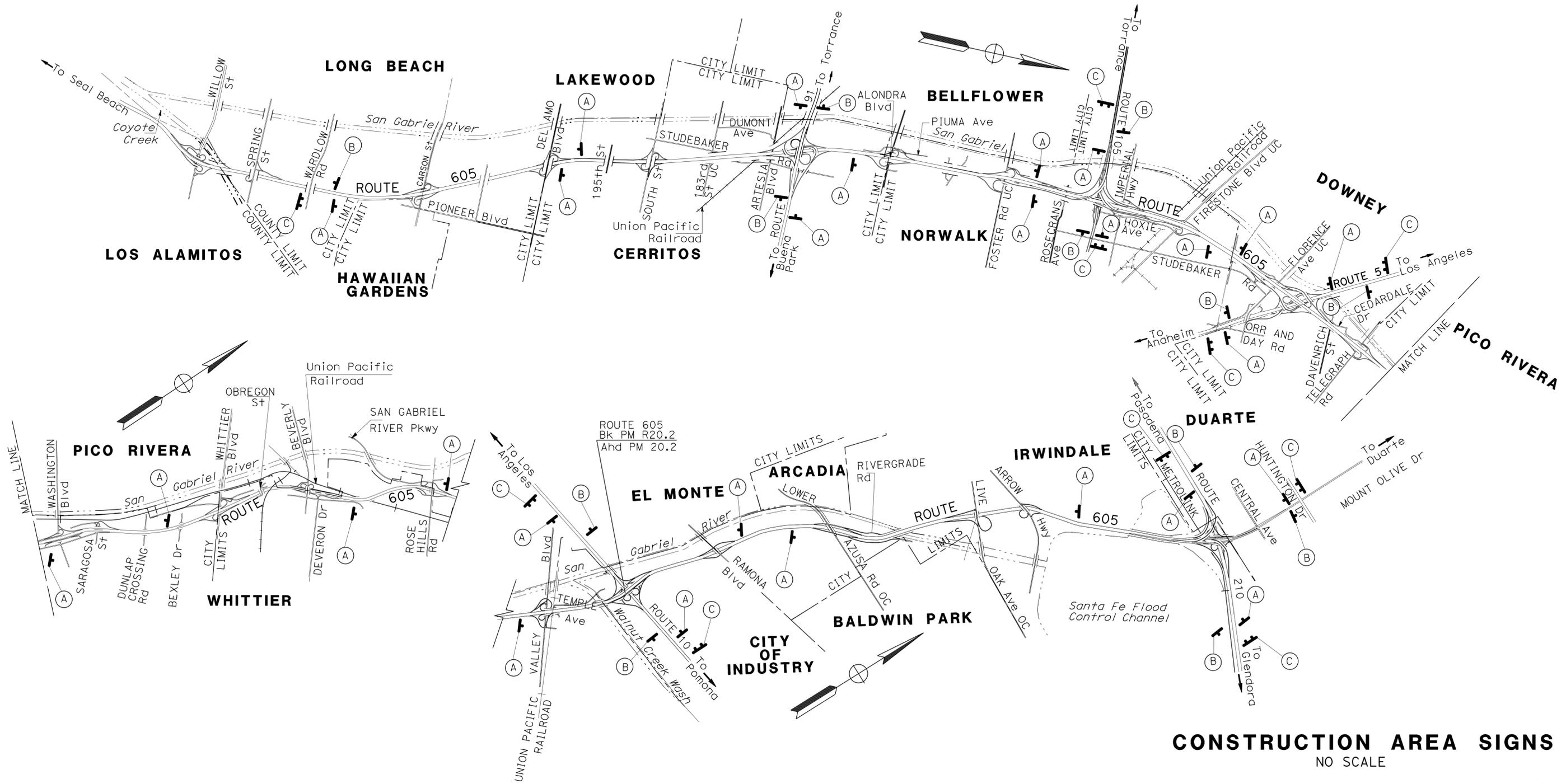
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REGISTERED PROFESSIONAL ENGINEER
GEHAN ATTALLAH
 No. 79698
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

NOTES:

- "TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES" SIGNS MUST BE PLACED APPROXIMATELY 500 FEET IN ADVANCE OF "ROAD WORK AHEAD" SIGNS OR AS DETERMINED BY THE ENGINEER.
- LOCATIONS OF CONSTRUCTION AREA SIGNS AS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	QUANTITY
(A)	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	27
(B)	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	12
(C)	C40 (CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	10



CONSTRUCTION AREA SIGNS
NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

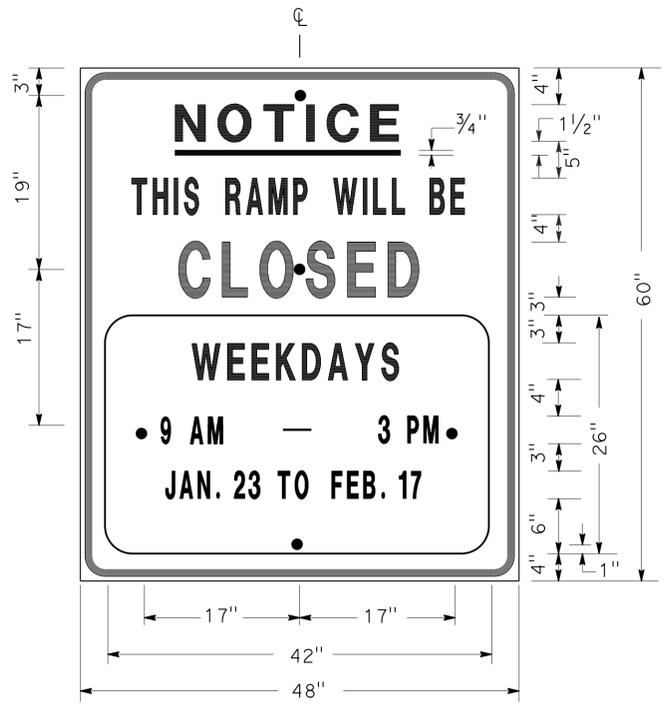
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: PAUL CRISPI
 CALCULATED/DESIGNED BY: GEHAN ATTALLAH
 CHECKED BY: LARRY WIERING
 REVISED BY: [] DATE: []
 REVISIONS: []

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	4	39

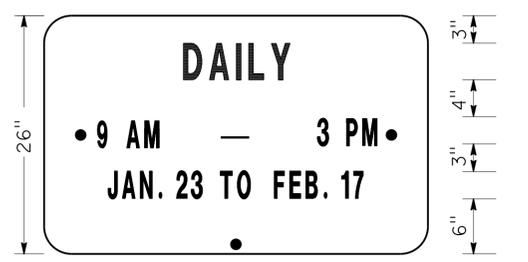
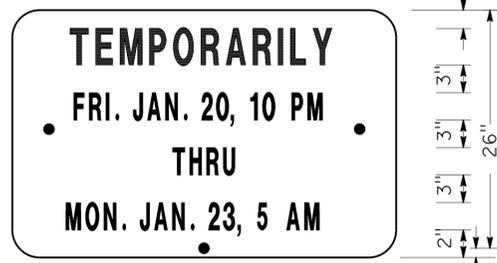
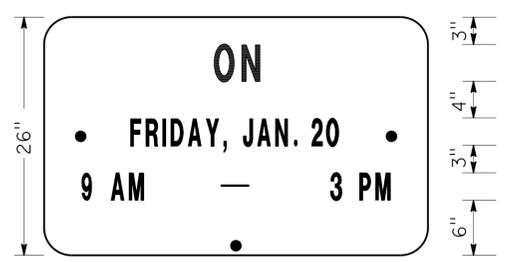
Senju Katayama 6-15-2013
 REGISTERED CIVIL ENGINEER DATE
 1/13/14
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
D. S. KATAYAMA
 No. C50648
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTIC
 FUNCTIONAL SUPERVISOR: JOHN YANG
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISIONS: JC 3/12
 REVISIONS: JC 3/12



SIGN SP-1



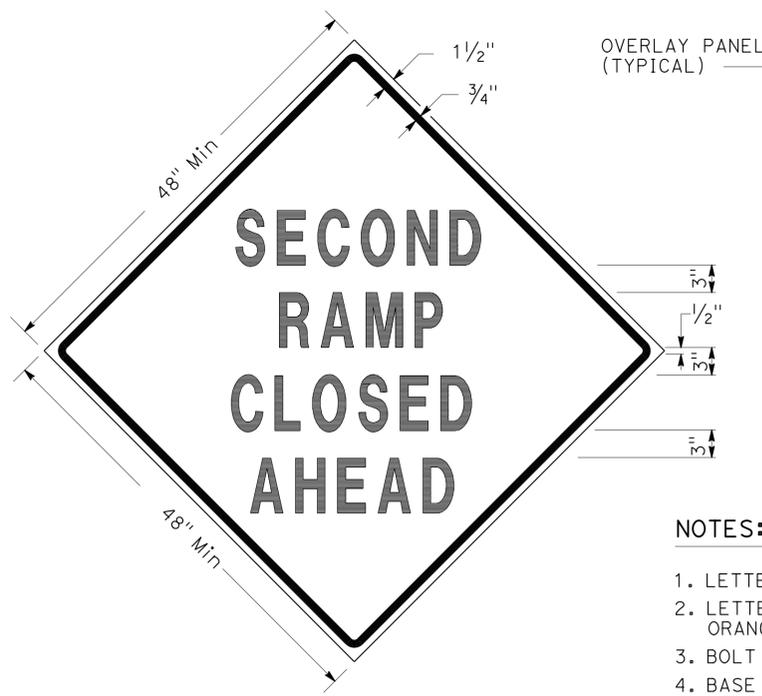
ALTERNATE OVERLAY PANELS (TYPICAL)

- NOTES:** SIGN SP-1
- LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
 - BOLT HOLES SHALL BE 3/8" DIAMETER.
 - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
 - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5, 6, & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"

* CONDENSED SPACING IF NECESSARY

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3



SIGN SP-5

- NOTES:** SIGNS SP-3 & SP-5
- LETTERS - 6" SERIES D.
 - LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
 - BOLT HOLES SHALL BE 3/8" DIAMETER.
 - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
 - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.
 - SIGN SP-5 SHALL BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

SPECIAL SIGNS FOR EXIT RAMP CLOSURES



SIGN SP-4

- NOTES:** SIGN SP-4
- LETTERS - 6" SERIES C.
 - LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
 - BOLT HOLES SHALL BE 3/8" DIAMETER.
 - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
 - SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH REVISED STANDARD PLAN RSP T14

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

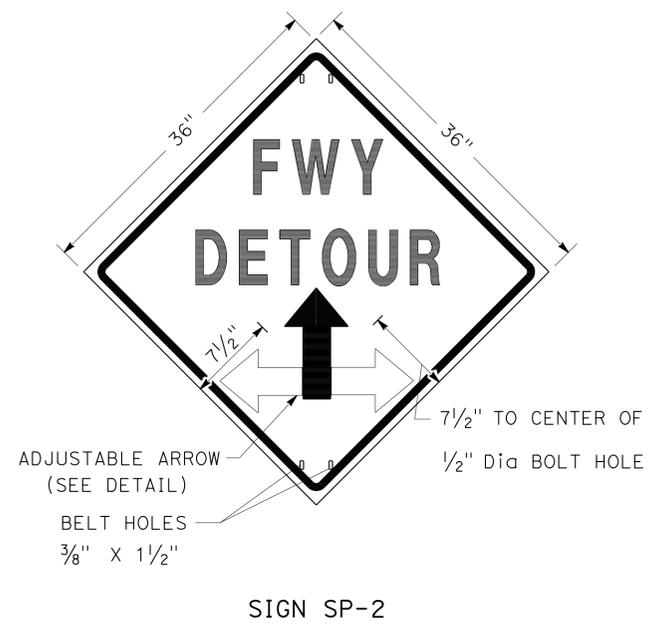
**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR RAMP CLOSURES, DETOUR SIGNS,
AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

NO SCALE

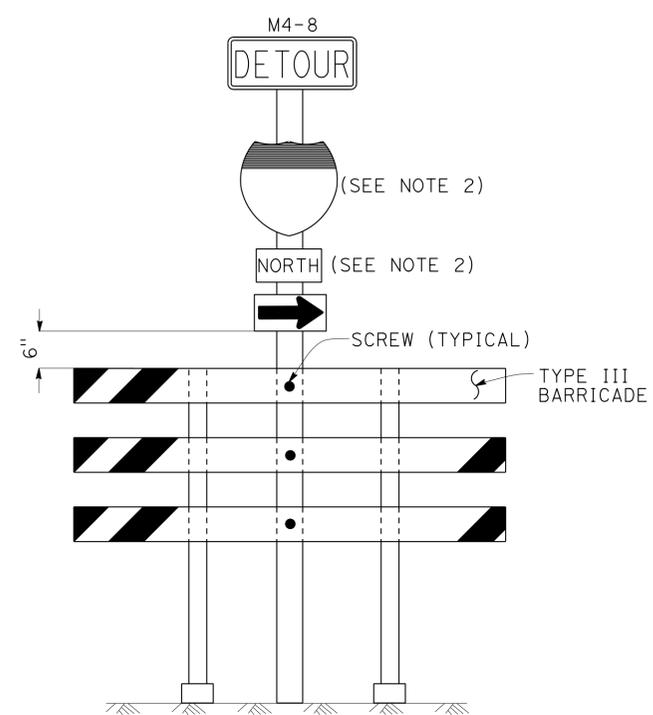
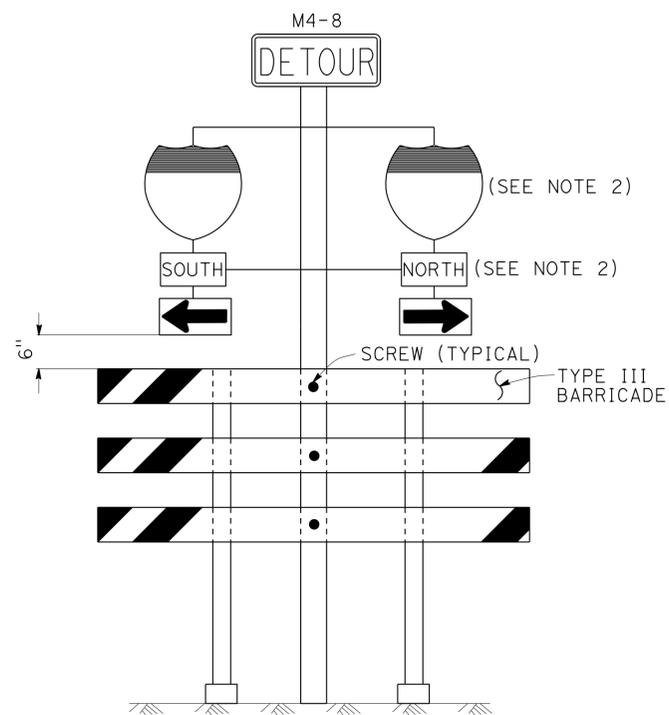
THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTM
 FUNCTIONAL SUPERVISOR: JOHN YANG
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISIONS: JC 3/12
 REVISOR: JC 3/12



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

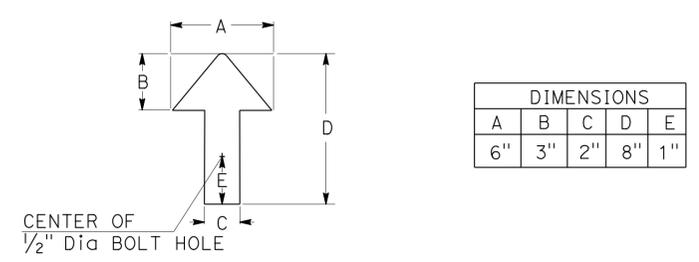
ABBREVIATION
 (CA) CALIFORNIA CODE



NOTES: SIGNS SP-6 & SP-7

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

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



ADJUSTABLE ARROW DETAIL

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

THD-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	6	39

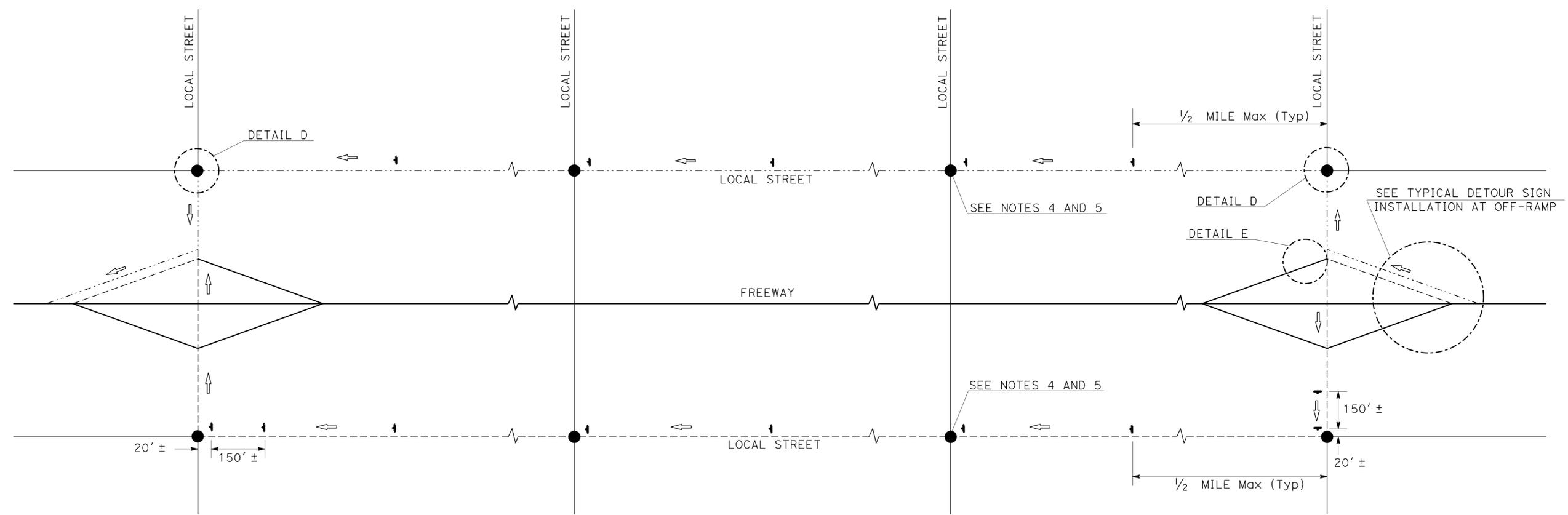
Denise Katayama 6-15-2013
 REGISTERED CIVIL ENGINEER DATE

1/13/14
 PLANS APPROVAL DATE

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

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



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR DETOUR SIGN INSTALLATION
 ALONG DESIGNATED DETOUR ROUTE
 SHEET 1 OF 3
 NO SCALE
 THD-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR: JOHN YANG
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISOR: JC
 DATE: 3/12

LAST REVISION: 00-00-00
 DATE PLOTTED => 29-JAN-2014
 TIME PLOTTED => 08:21

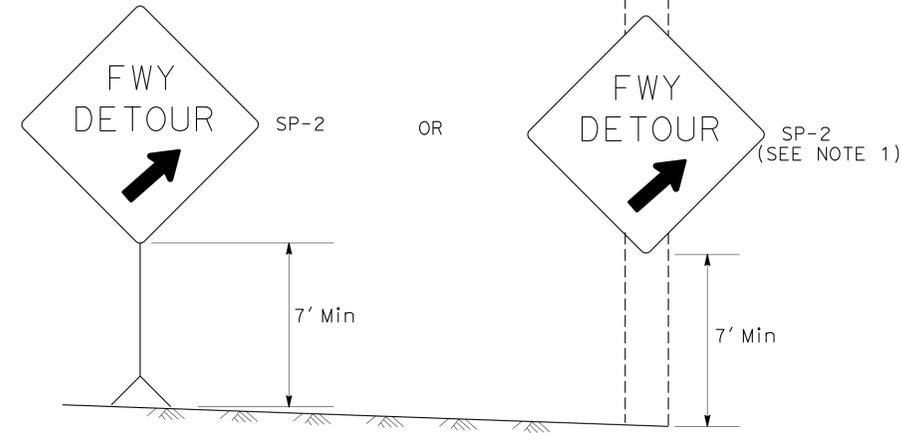
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	7	39

Denise Katayama 6/15/2013
 REGISTERED CIVIL ENGINEER DATE

1/13/14
 PLANS APPROVAL DATE

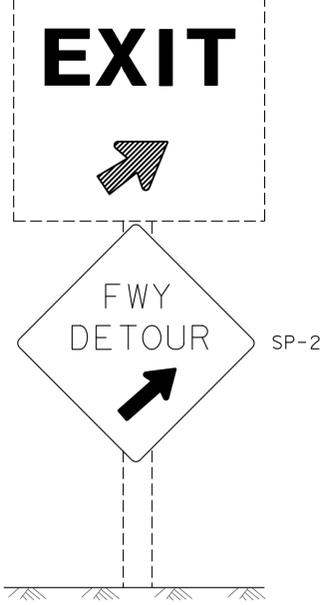
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REGISTERED PROFESSIONAL ENGINEER
D. S. KATAYAMA
 No. C50648
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA



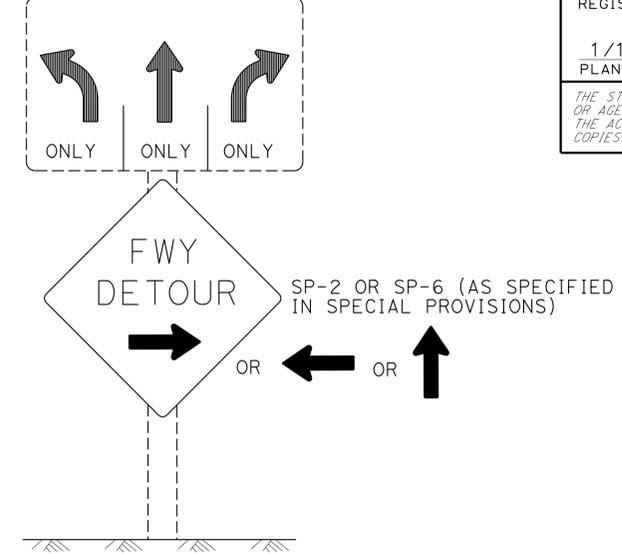
DETAIL A (SEE NOTE 3)

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

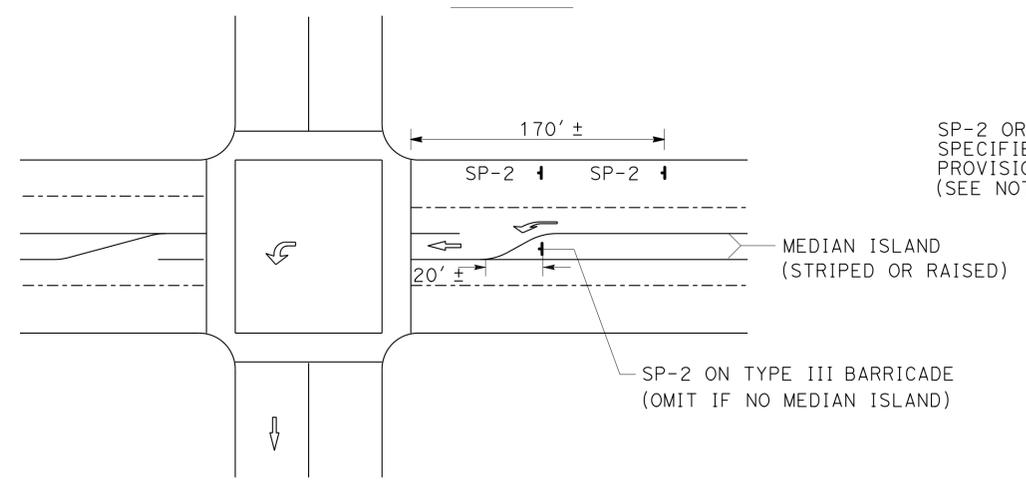


DETAIL B (SEE NOTE 3)

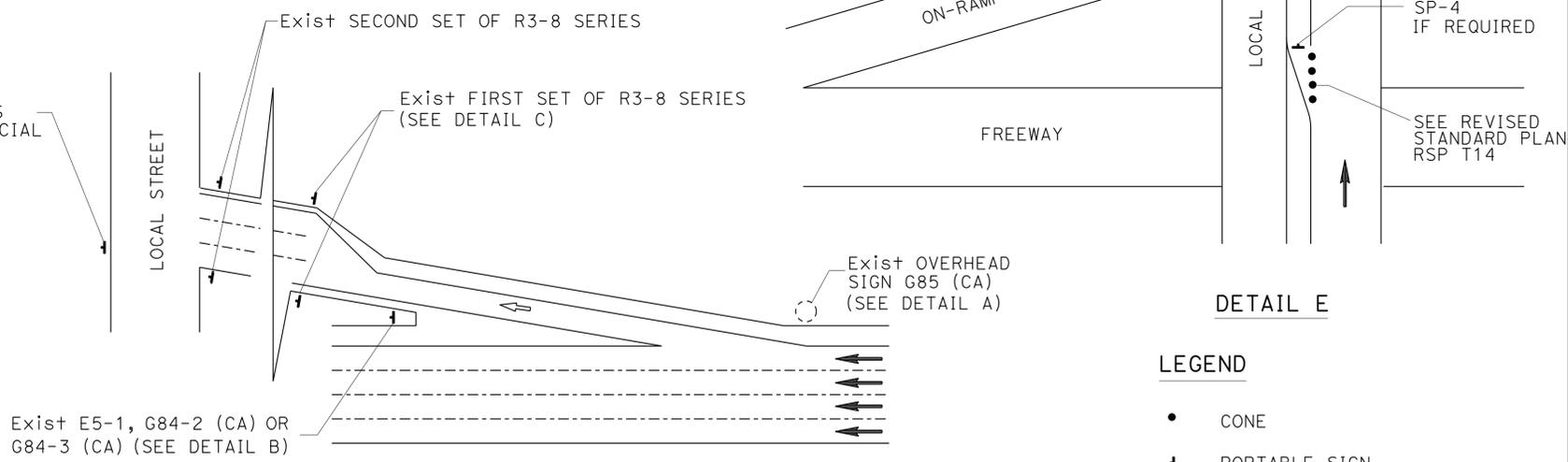
Exist R3-8 SERIES



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



DETAIL D



DETAIL E

LEGEND

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

TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

SIGN CODE LEGEND

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

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

NO SCALE **THD-4**

NOTES: SIGN SP-2

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS SHALL 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 SHALL 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.

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

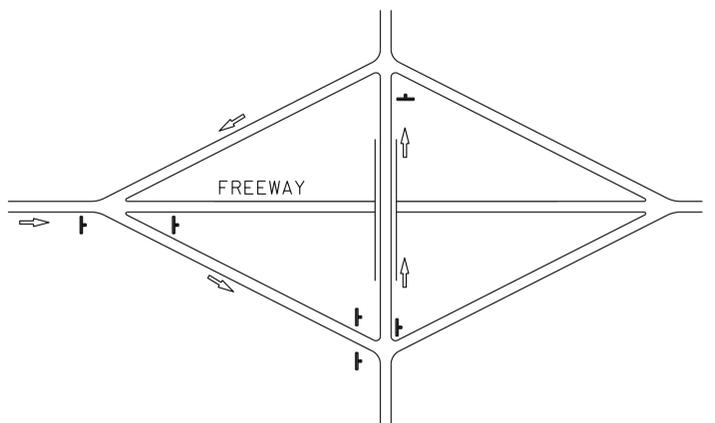
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	8	39

Senju Katayama - 6/15/2013
 REGISTERED CIVIL ENGINEER DATE
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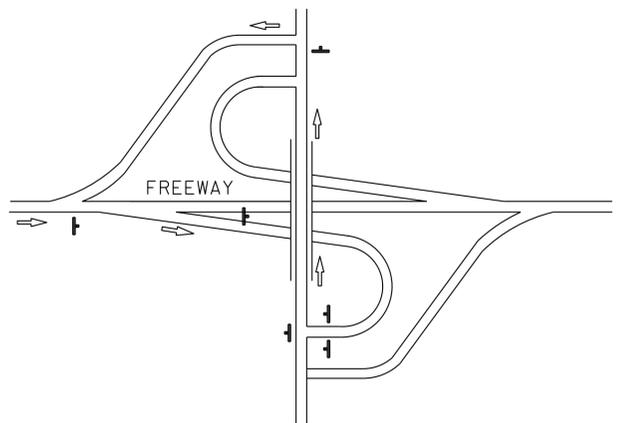
D. S. KATAYAMA
 No. C50648
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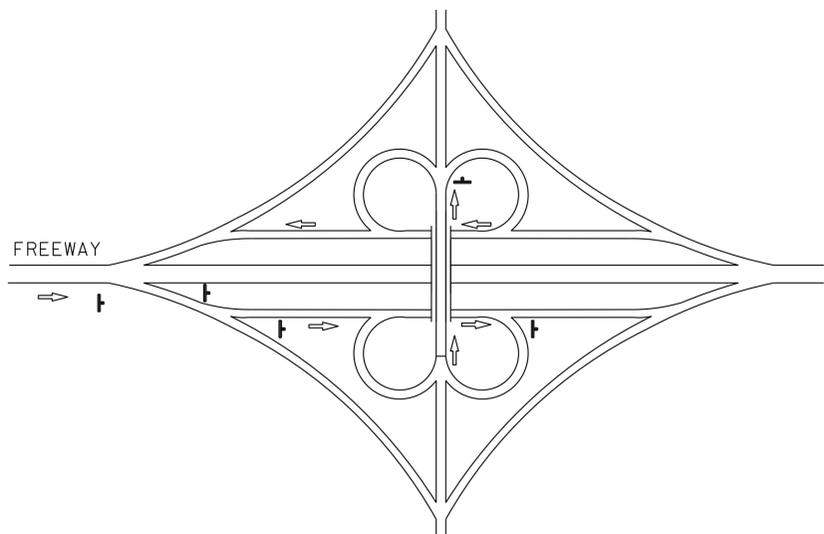
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTMM
 FUNCTIONAL SUPERVISOR: JOHN YANG
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISIONS: JC 3/12
 REVISIONS: JC 3/12



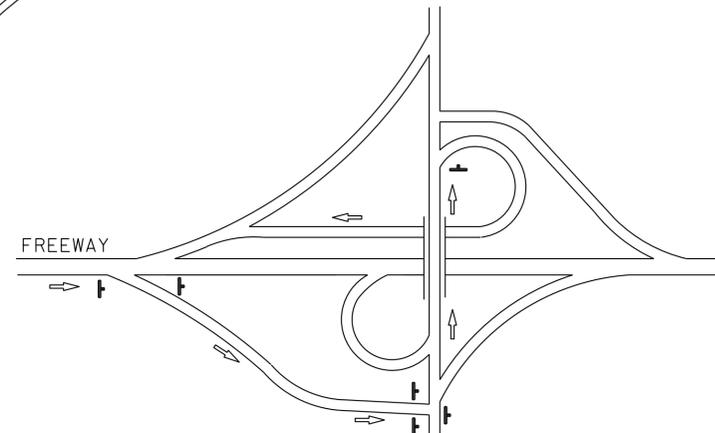
TYPE I



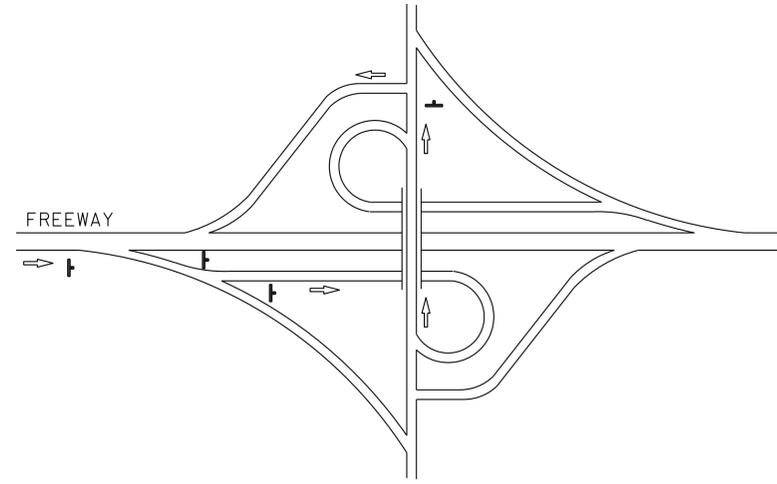
TYPE II



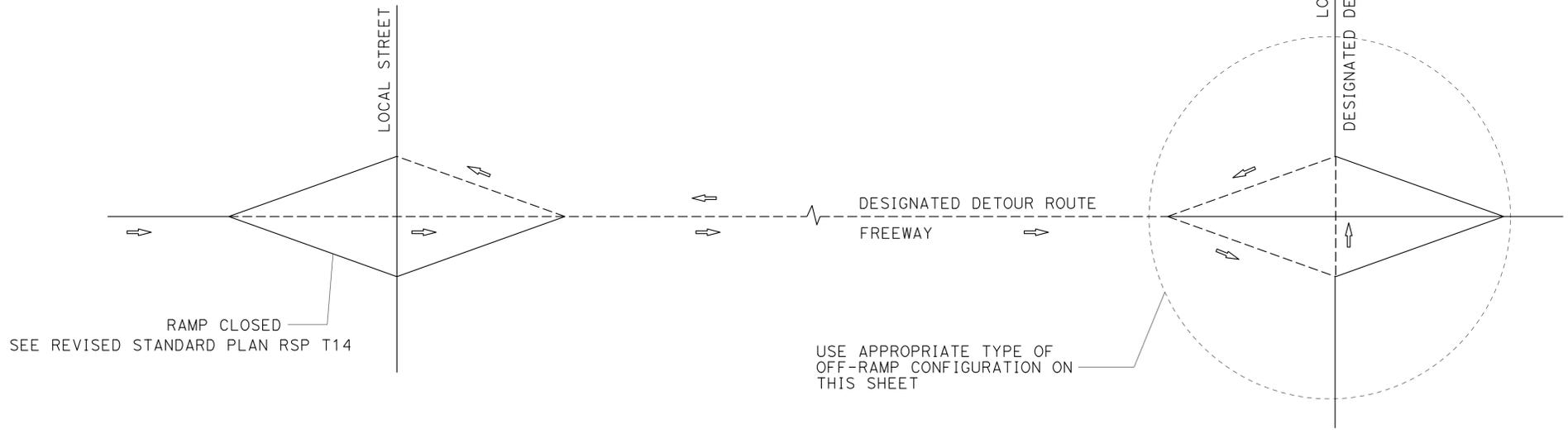
TYPE III



TYPE IV



TYPE V



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

TYPICAL DETOUR SIGN INSTALLATION FOR OFF-RAMP CLOSURE

NOTES:

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

LEGEND

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

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

NO SCALE

THD-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	10	39

Denise Katayama - 6/15/2013
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 1/13/14
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NOTES:

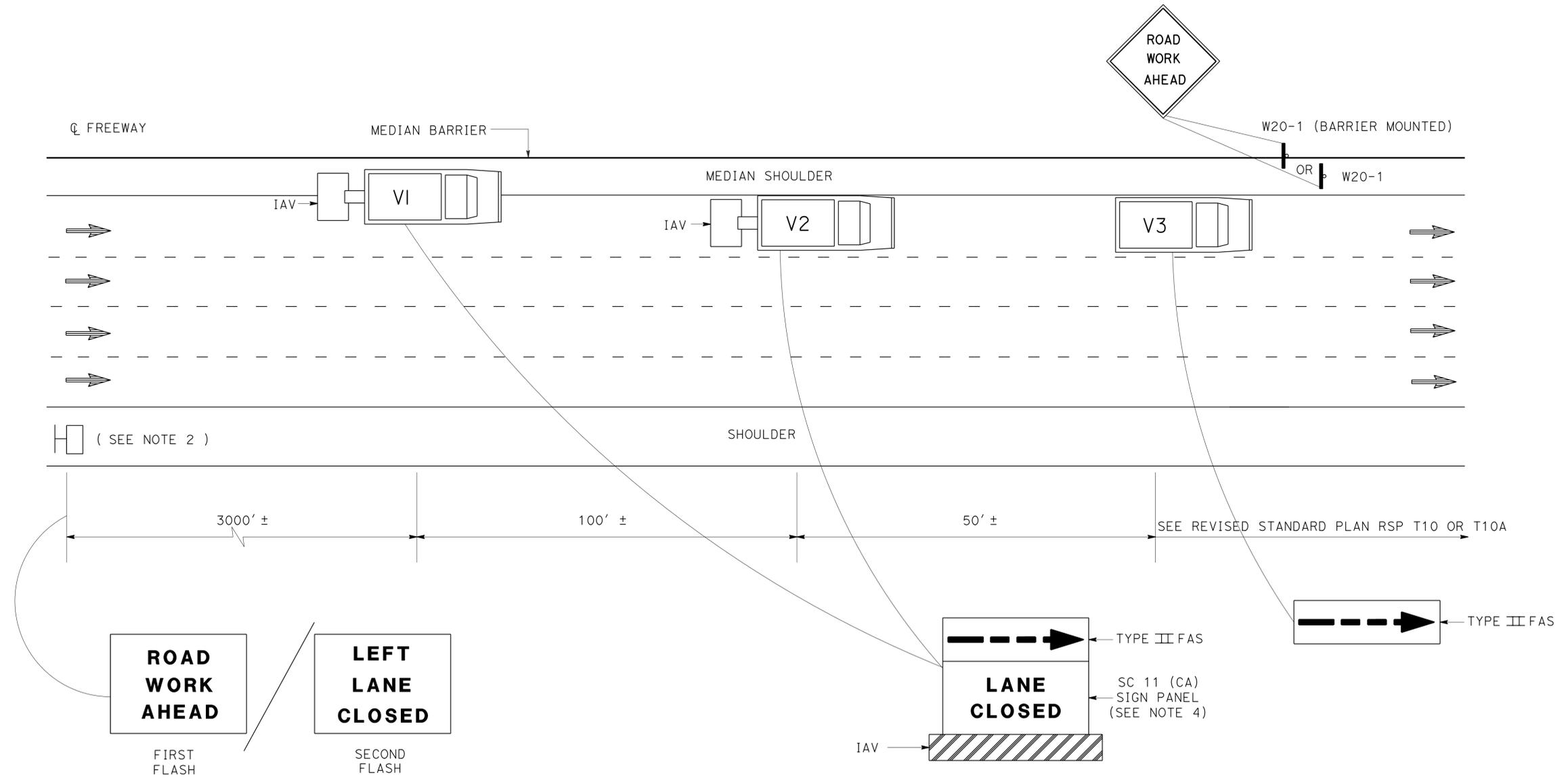
- LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE LANE.
- A MINIMUM SIGHT DISTANCE OF 1500' SHALL BE PROVIDED IN ADVANCE OF PCMS.
- VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED 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-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTMT
 FUNCTIONAL SUPERVISOR: JOHN YANG
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISION DATE: 3/12
 REVISION BY: JC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	11	39

Denus Katayama 6/15/2013
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REGISTERED PROFESSIONAL ENGINEER
D. S. KATAYAMA
 No. C50648
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

NOTES:

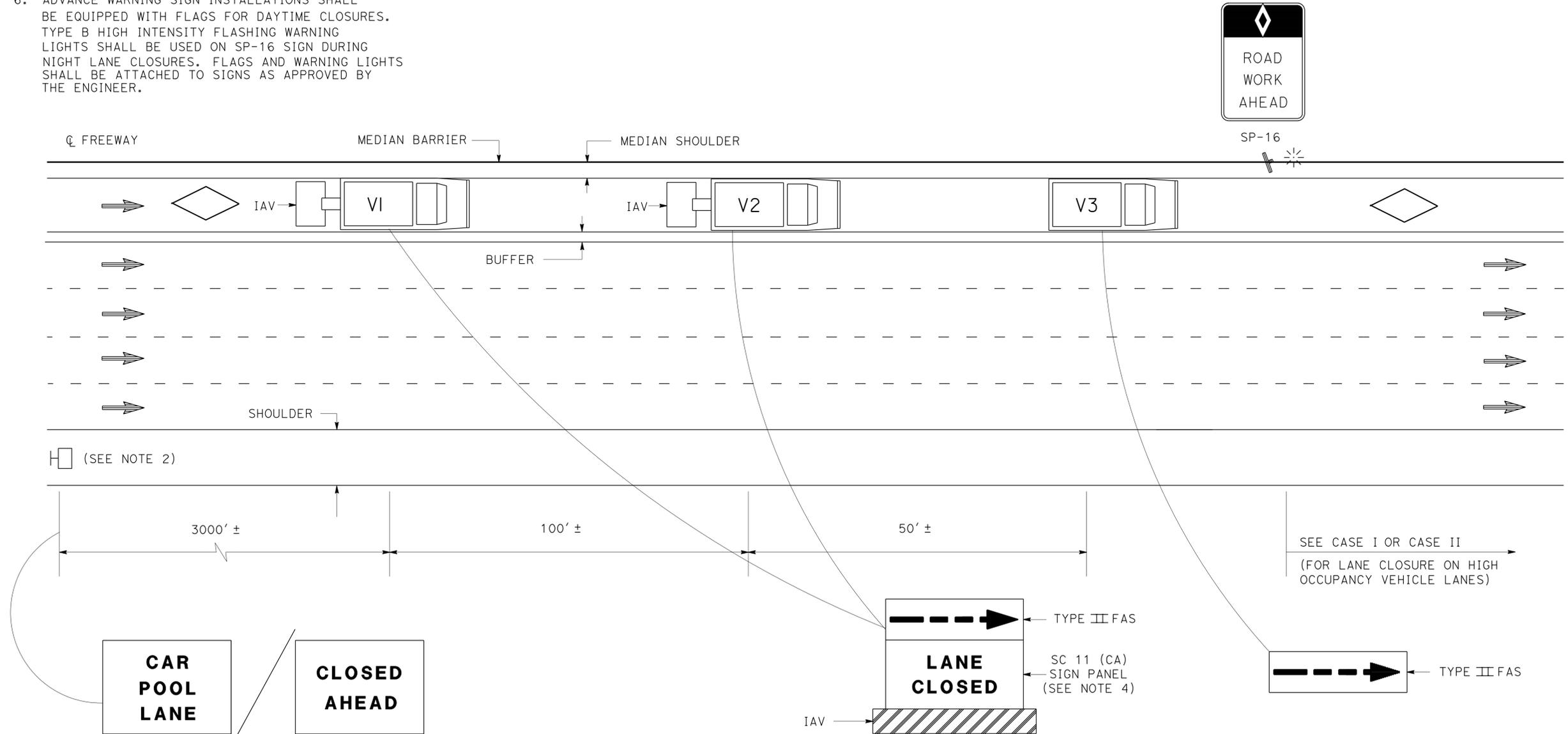
- LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
- A MINIMUM SIGHT DISTANCE OF 1500' SHALL BE PROVIDED IN ADVANCE OF PCMS.
- VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED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

LEGEND

- V1, V2 SHADOW VEHICLES
- V3 WORK/APPLICATION VEHICLE
- PCMS
- DIRECTION OF TRAVEL
- HOV LANE
- FLASHING BEACON

ABBREVIATIONS

- FAS FLASHING ARROW SIGN
- IAV IMPACT ATTENUATOR VEHICLE
- CMS CHANGEABLE MESSAGE SIGN
- (CA) CALIFORNIA CODE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- HOV HIGH OCCUPANCY VEHICLE
- 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-8

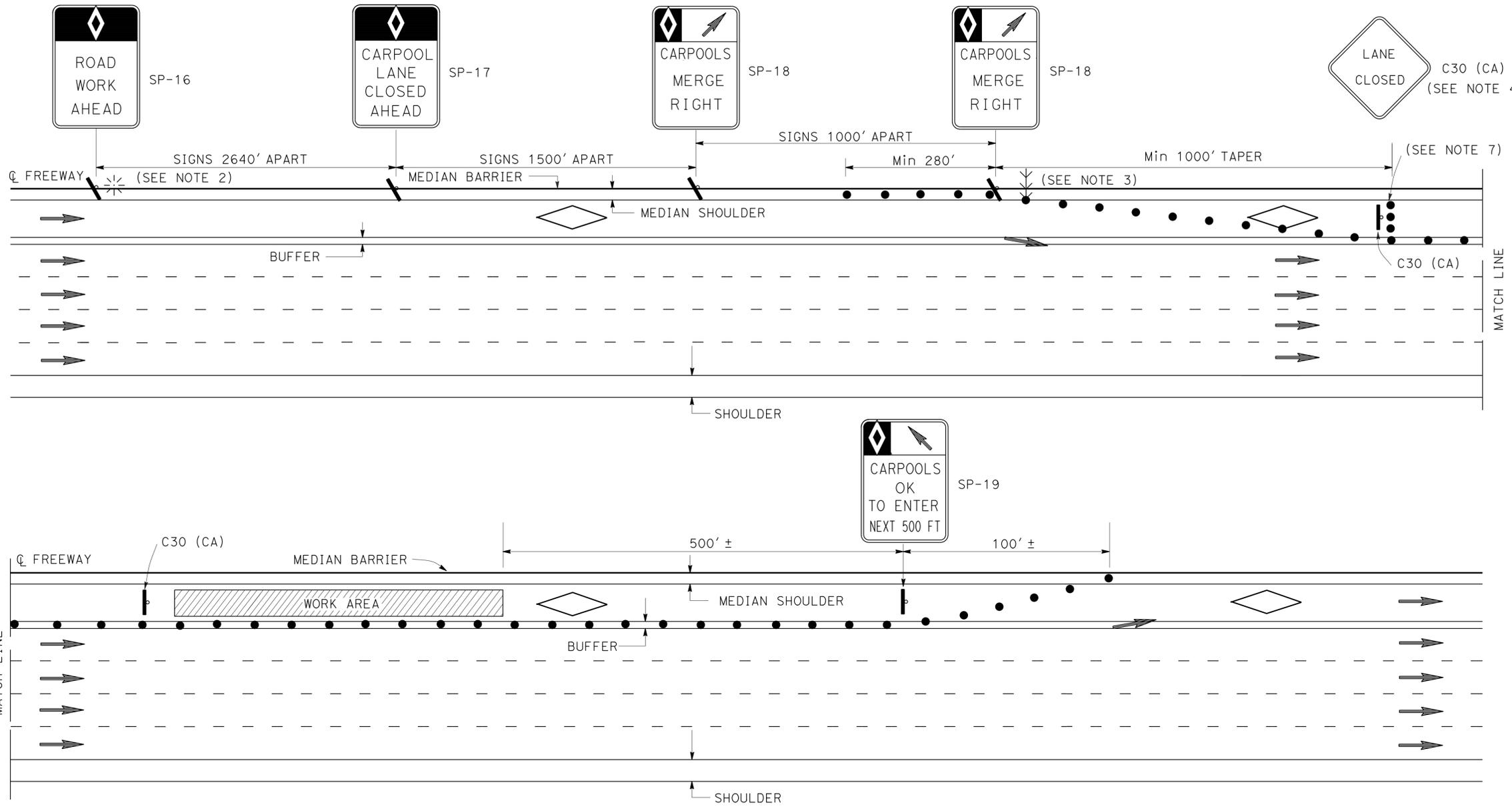
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTMM
 FUNCTIONAL SUPERVISOR
 XXXXXX
 CHECKED BY
 JOCELYN C CHIANG
 REVISIONS BY
 ALBERT K YU
 DATE REVISION
 3/12
 JC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	12	39

Dennis Katayama 6/15/2013
 REGISTERED CIVIL ENGINEER DATE
 1/13/14
 PLANS APPROVAL DATE

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

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



- LEGEND**
- CONE
 - ⚡ FLASHING BEACON
 - ◇ HOV LANE
 - ←←← FLASHING ARROW SIGN
 - ▮ PORTABLE SIGN
 - DIRECTION OF TRAVEL

- ABBREVIATIONS**
- (CA) CALIFORNIA CODE
 - HOV HIGH OCCUPANCY VEHICLE

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

NOTES: FOR CASE I AND CASE II

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

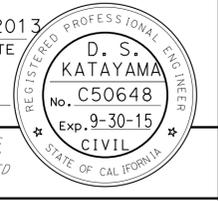
TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR HIGH OCCUPANCY VEHICLE LANES
AT NON-INGRESS/EGRESS AREAS
CASE I

NO SCALE

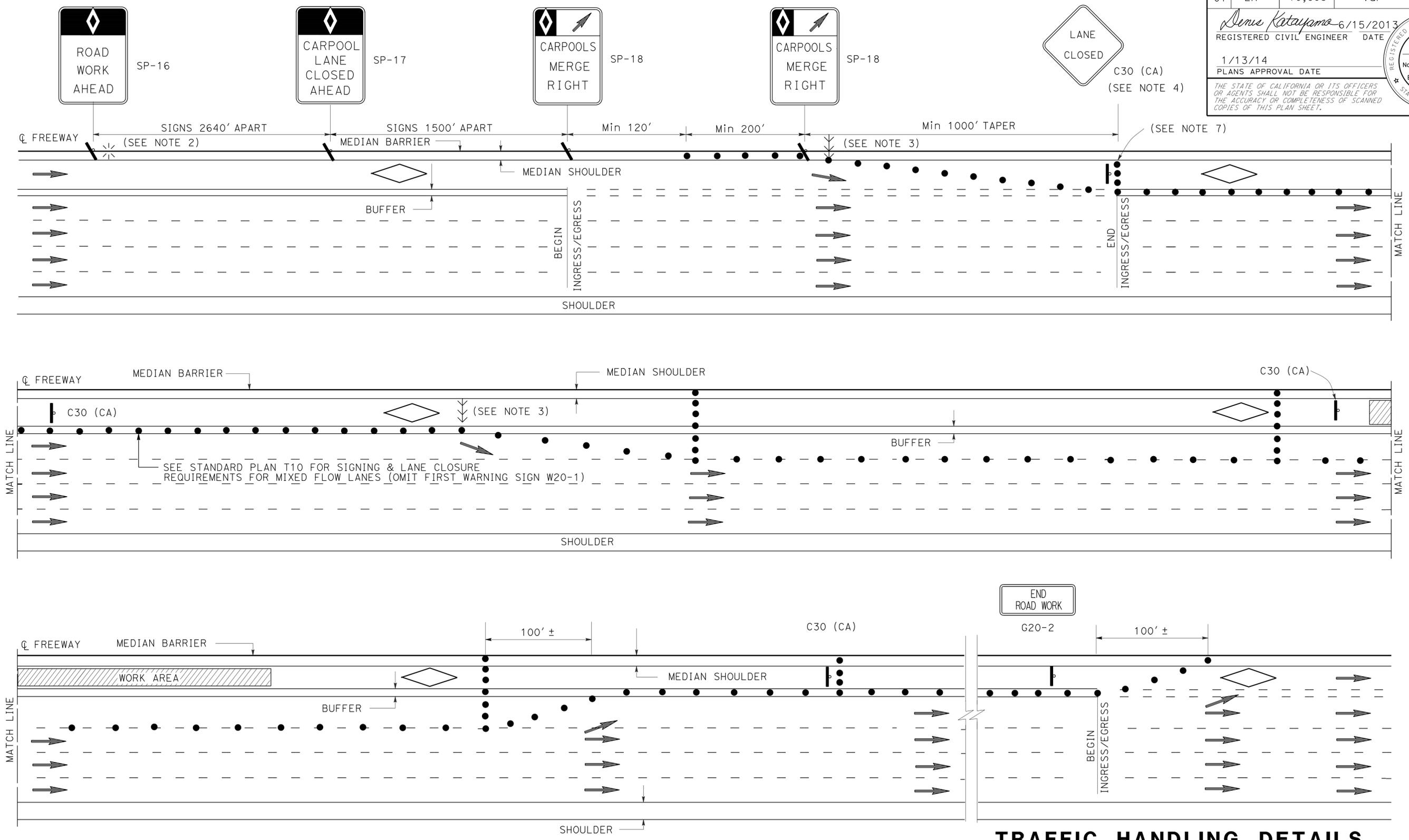
THD-9

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	13	39
<i>Denis Katayama</i> 6/15/2013 REGISTERED CIVIL ENGINEER DATE					
1/13/14 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTM
 FUNCTIONAL SUPERVISOR: XXXXX
 CHECKED BY: JOCELYN C CHIANG
 REVISIONS: 3/12
 DESIGNED BY: ALBERT K YU



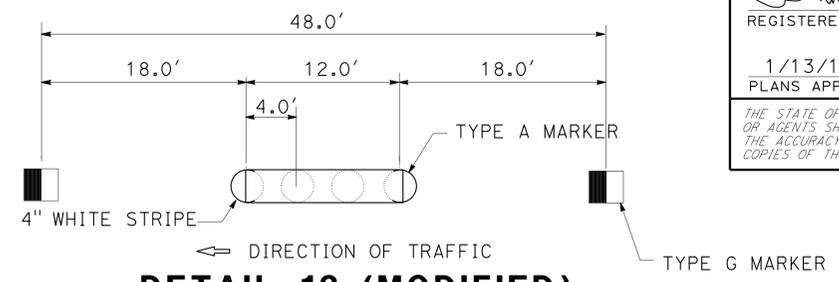
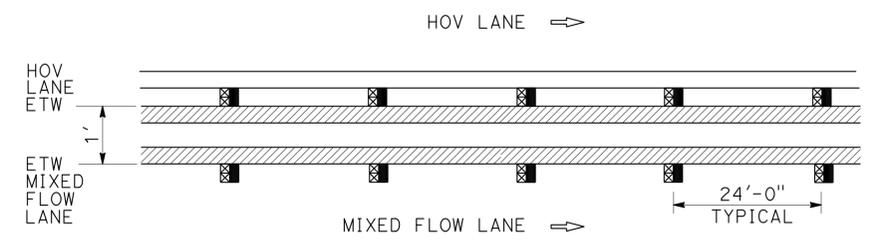
- NOTES:**
- SEE CASE I FOR NOTES, LEGEND, SIGN PANEL, AND ABBREVIATIONS FOR THIS SHEET.
 - CLOSURES OF ONE MIXED FLOW TRAFFIC LANE ADJACENT TO HOV LANE SHOWN ON THIS SHEET. MULTIPLE MIXED FLOW LANE CLOSURES ARE SIMILAR.

**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR HIGH OCCUPANCY
 VEHICLE LANES AND ADJACENT FREEWAY LANES
 BETWEEN INGRESS/EGRESS AREAS
 CASE II
 NO SCALE
 THD-10**

LAST REVISION DATE PLOTTED => 29-JAN-2014
 00-00-00 TIME PLOTTED => 08:21

NOTE:

1. APPLY 4" WIDE THERMOPLASTIC TRAFFIC STRIPE ON TOP OF TYPE A NON-REFLECTIVE MARKERS FOR DETAIL 13 (MODIFIED).



**BUFFER STRIPING DETAIL M-9
(BUFFER WIDTH-1 FT)**

**DETAIL 13 (MODIFIED)
NO SCALE**

PAVEMENT DELINEATION QUANTITIES

LOCATIONS OF CONSTRUCTION					THERMOPLASTIC TRAFFIC STRIPE						THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER (NON-REFLECTIVE)				REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC PAVEMENT MARKING		
					HOV DETAIL		Det 25	Det 27B	Det 12/13 (Mod)	Det 37		Det 36	PAVEMENT MARKER (RETROREFLECTIVE)								
					DETAIL M-9	4" WHITE STRIPE							4" YELLOW STRIPE	4" SOLID YELLOW	4" SOLID WHITE					4" WHITE (BROKEN 36-12')	8" WHITE (BROKEN 12'-3')
Loc	ROUTE	BRIDGE NAME	PM	BRIDGE No.	LF						SQFT	EA				EA	LF	LF	SQFT		
①	605	CARSON ST-N605/N605-CARSON ST RAMP SEPARATION	R1.63	53-2883S			180	180	180			16	5	9		30	250	180			
④	605	IMPERIAL HIGHWAY UC	R7.85	53-1651K			165	165		165				8	9	17	200	165			
⑤	605	HOXIE OVERHEAD	R8.23	53-1652S			310	310	310		84	26	8	15		49	450	310	84		
⑥	605	FLORENCE AVENUE OFF-RAMP OC	R9.54	53-1659K			300	300						15		15	300	300			
⑧	605	S605-S5 CONNECTOR OC	R9.65	53-1083F			250	250		250	150	35		7	11	15	33	650	250	35	
⑨	605	WASHINGTON Blvd UC	R12.05	53-1667	170	340	510	510	1,020	180	340	62	96	39	31	10	176	1,425	850	62	
⑩	605	OBREGON STREET OC	R13.98	53-1529			230	230						10		10	230	230			
⑬	605	SOUTH CONNECTOR UC (N605-W10)	R20.09	53-1631G			115	115				30		6		6	115	115	30		
⑭	10	NORTH CONNECTOR UC (E10 - N605)	31.18	53-1633G			250	250	250				24	7	11		42	350	250		
⑳	605	HUNTINGTON DR-S605/CENTRAL	25.98	53-1958K			150	150				24		8		8	150	150	24		
SUBTOTAL							510	2,460	2,460	1,760	595	490	235	162	66	124	34	386	4,120	2,800	235
TOTAL							5,430			1,760	595	490	235	162	224		386	4,120	2,800	235	

**PAVEMENT DELINEATION QUANTITIES
PDQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: PAUL CRISPI
 CALCULATED/DESIGNED BY: GEHAN ATTALAH
 CHECKED BY: LARRY WIERING
 REVISIONS: REVISOR: DATE: REVISIONS: REVISOR: DATE:

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

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	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	
SL	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	15	39

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 1-13-14

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
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

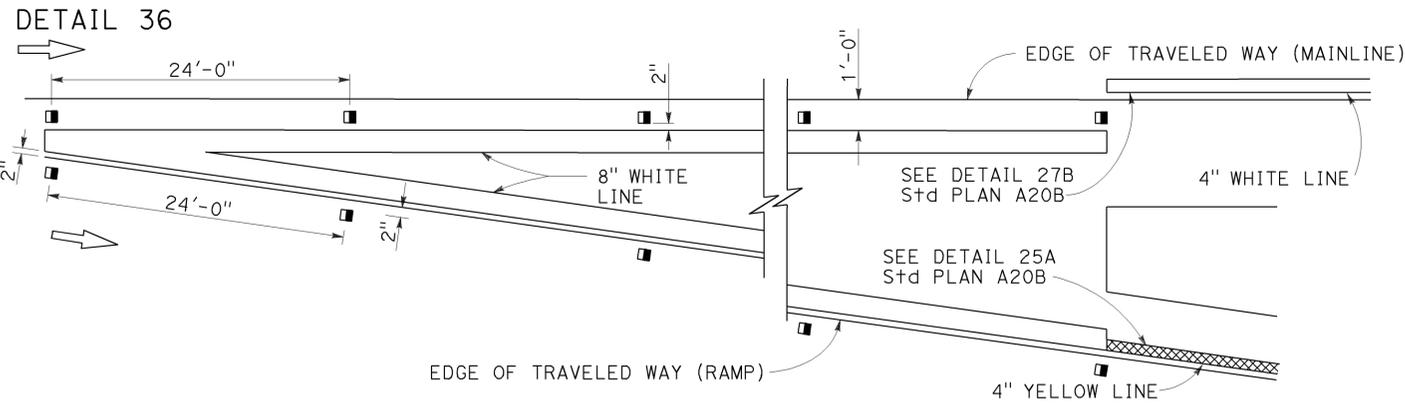
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

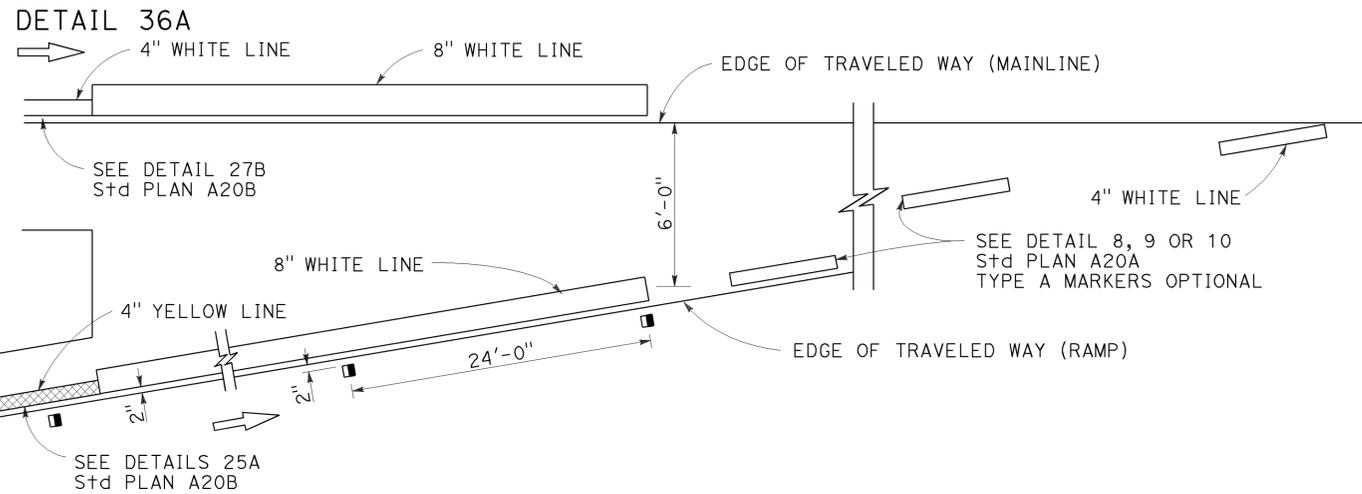
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

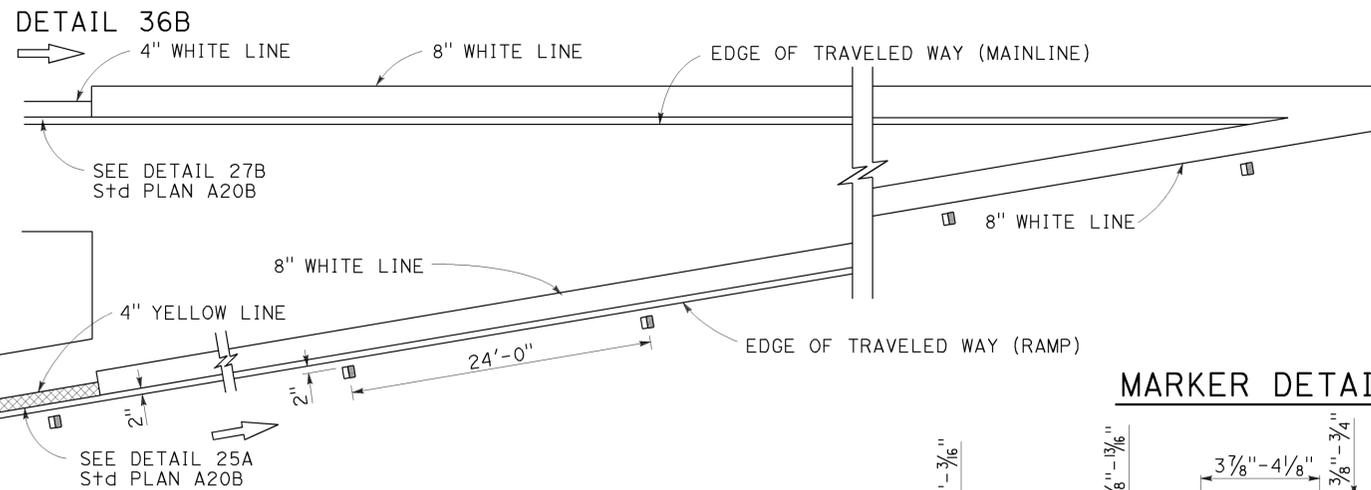
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

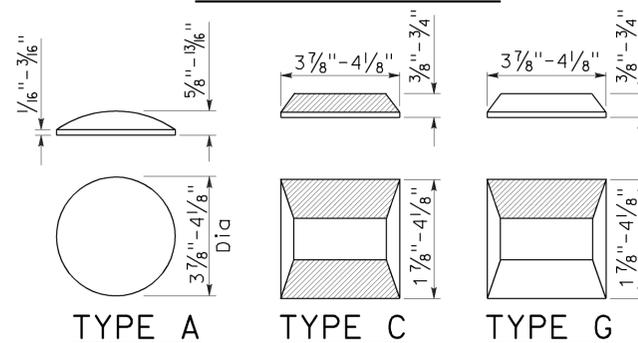


MARKER DETAILS

LEGEND:

MARKERS

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



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	16	39

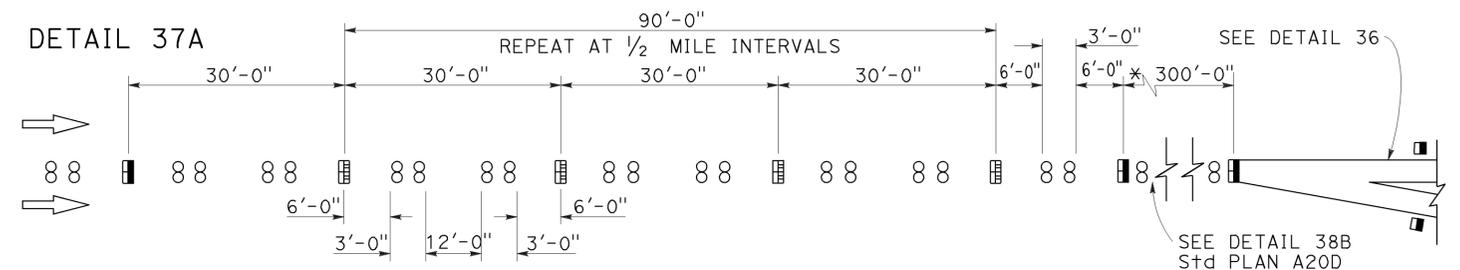
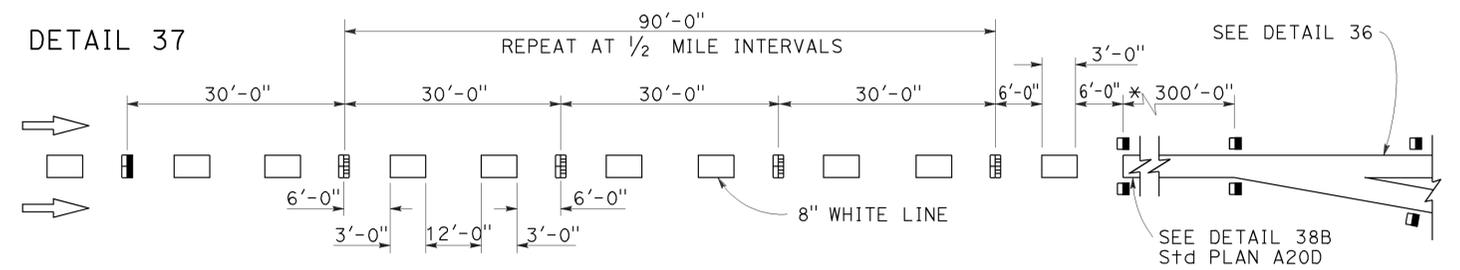
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 No. C40375
 Exp. 3-31-15
 CIVIL
 STATE OF CALIFORNIA

July 19, 2013
 PLANS APPROVAL DATE

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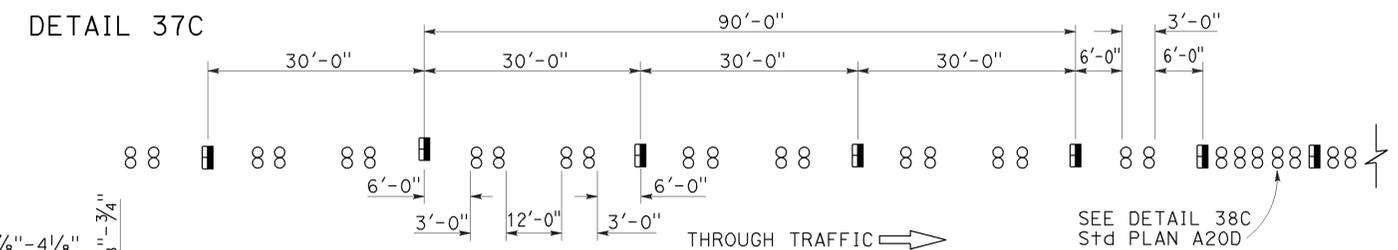
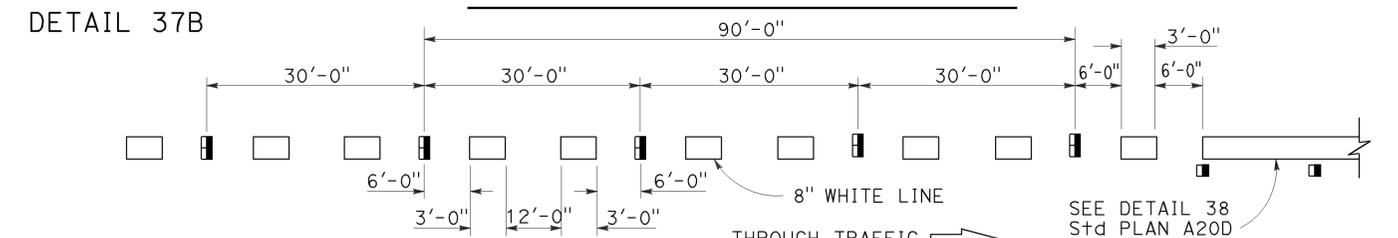
TO ACCOMPANY PLANS DATED 1-13-14

LANE DROP AT EXIT RAMP



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

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

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

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

TO ACCOMPANY PLANS DATED 1-13-14

TABLE 1

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

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

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

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

TABLE 2

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

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

TABLE 3

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

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

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

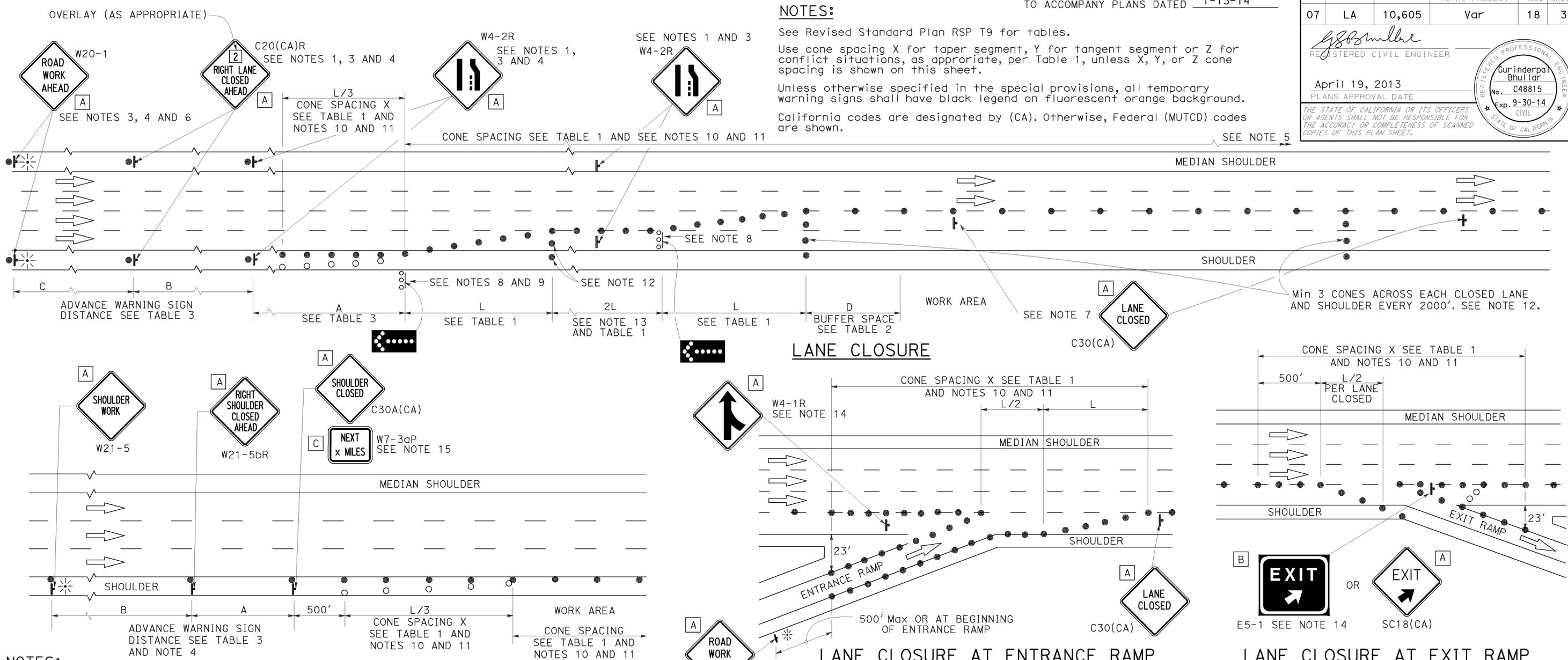
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	18	39

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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

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



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

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

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

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

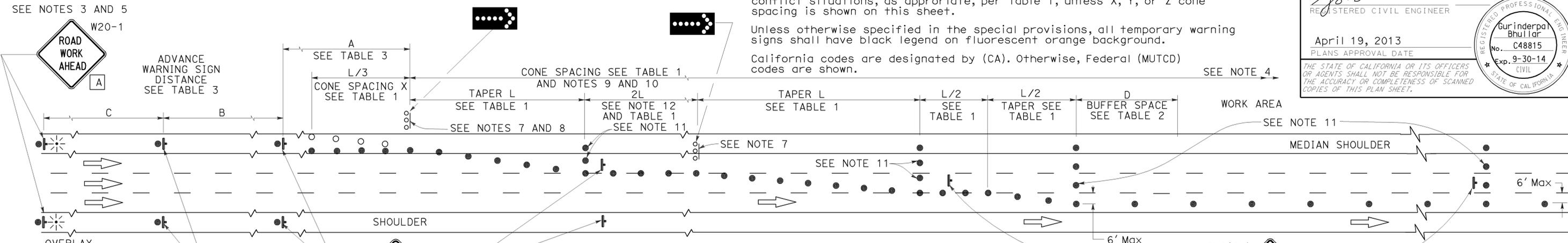
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	19	39

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

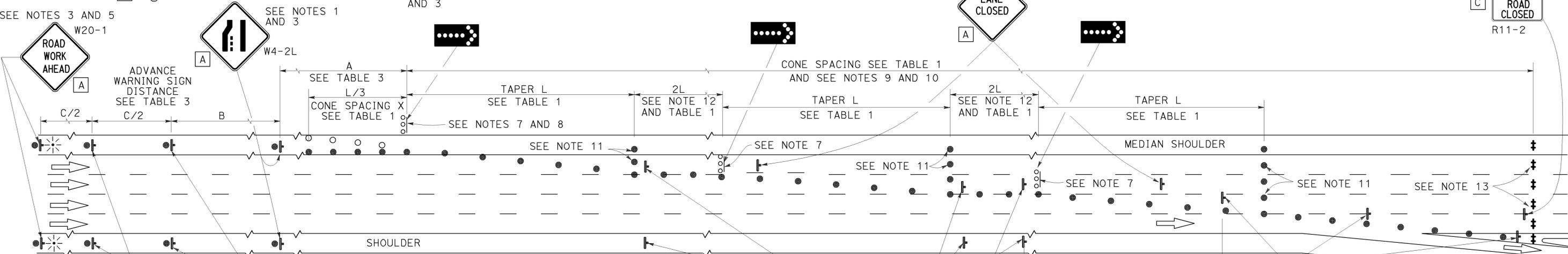
April 19, 2013
 PLANS APPROVAL DATE

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

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.



LANE CLOSURE WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT ___ MILES", use a C20(CA) sign for the first advance warning sign.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- 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.
- 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

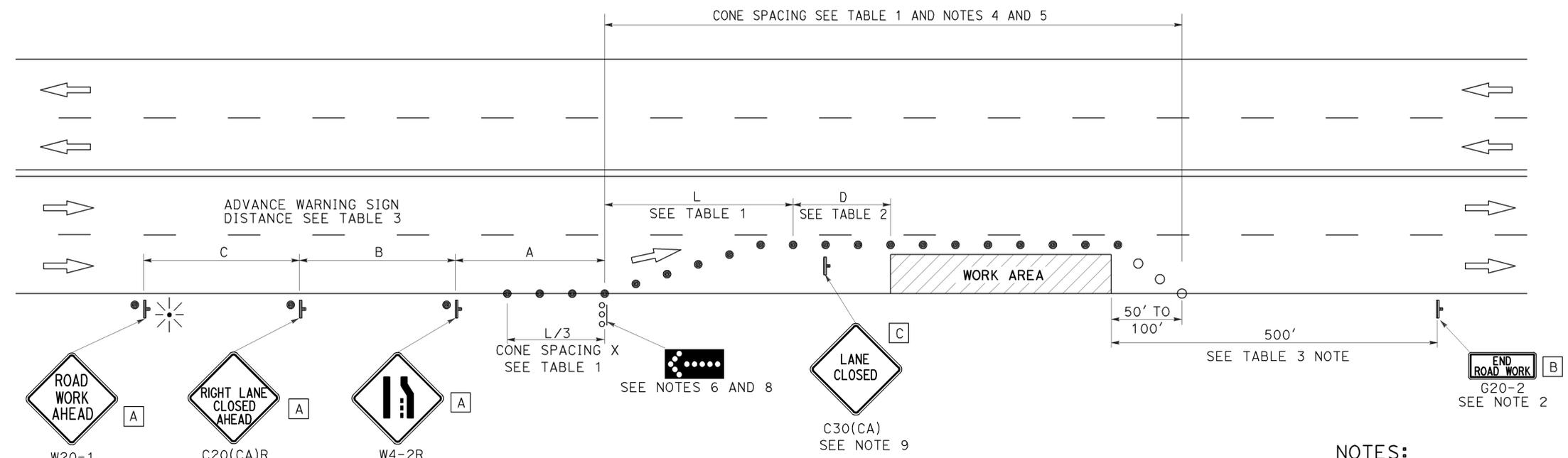
RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

2010 REVISED STANDARD PLAN RSP T10A

TO ACCOMPANY PLANS DATED 1-13-14

2010 REVISED STANDARD PLAN RSP T11



TYPICAL LANE CLOSURE

NOTES:

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

NOTES:

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

LEGEND

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

SIGN PANEL SIZE (Min)

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

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

NO SCALE

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

REVISED STANDARD PLAN RSP T11

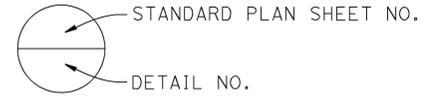
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	21	39
Edward Li		11-15-13		REGISTERED CIVIL ENGINEER DATE	
1-13-14		PLANS APPROVAL DATE			
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	GENERAL PLAN NO. 10
11	GENERAL PLAN NO. 11
12	GENERAL PLAN NO. 12
13	GENERAL PLAN NO. 13
14	GENERAL PLAN NO. 14
15	SLAB REPAIR DETAILS 1
16	SLAB REPAIR DETAILS 2
17	MISCELLANEOUS DETAILS NO. 1
18	MISCELLANEOUS DETAILS NO. 2
19	STRUCTURE APPROACH TYPE R(30D)

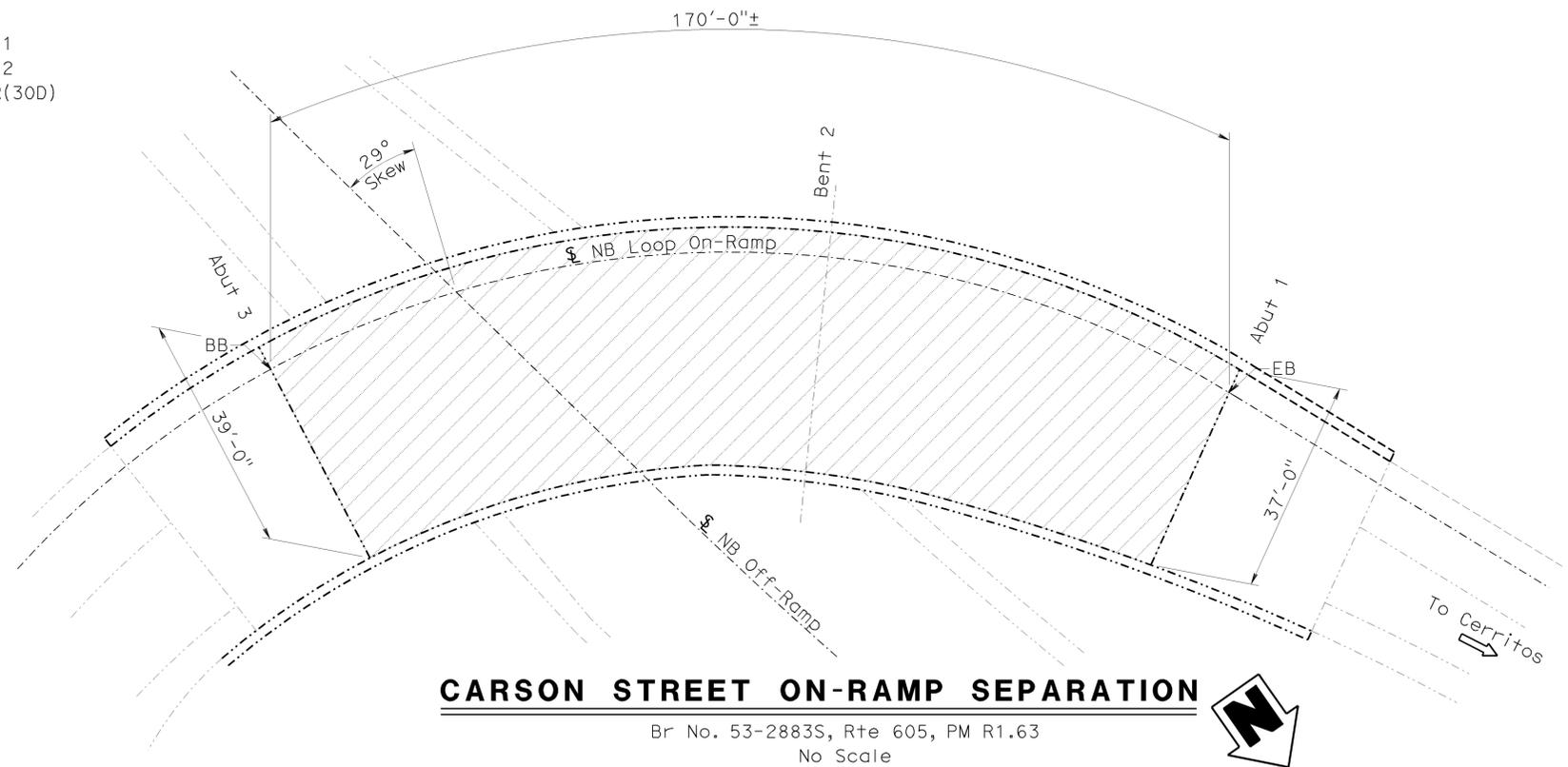
STANDARD PLANS DATED 2010

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



LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- Indicates limits of clean and treat existing bridge deck surface with high molecular weight methacrylate.



CARSON STREET ON-RAMP SEPARATION

Br No. 53-2883S, Rte 605, PM R1.63
No Scale

CARSON STREET ON-RAMP SEPARATION #53-2883S
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	6,290 SQFT
TREAT BRIDGE DECK	6,290 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	79 GAL

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

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DESIGN	Edward Li	Edward Li	LAYOUT	BY Clayton Tom
DETAILS	Clayton Tom	Hong Tien Tran	SPECIFICATIONS	BY James Choi
QUANTITIES	Edward Li	Edward Li		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.
Various
POST MILE
Varies

ROUTES 605 BRIDGES GENERAL PLAN NO. 1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489
PROJECT NUMBER & PHASE: 0713000063 1 CONTRACT NO.: 07-1W6801

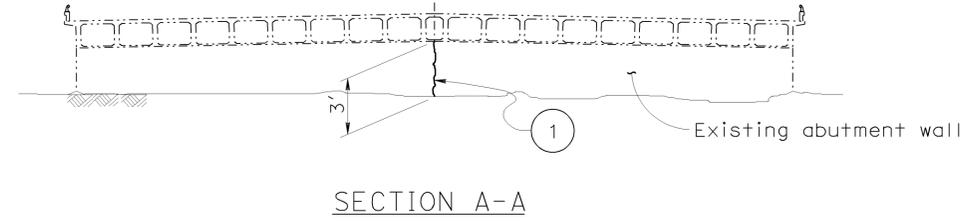
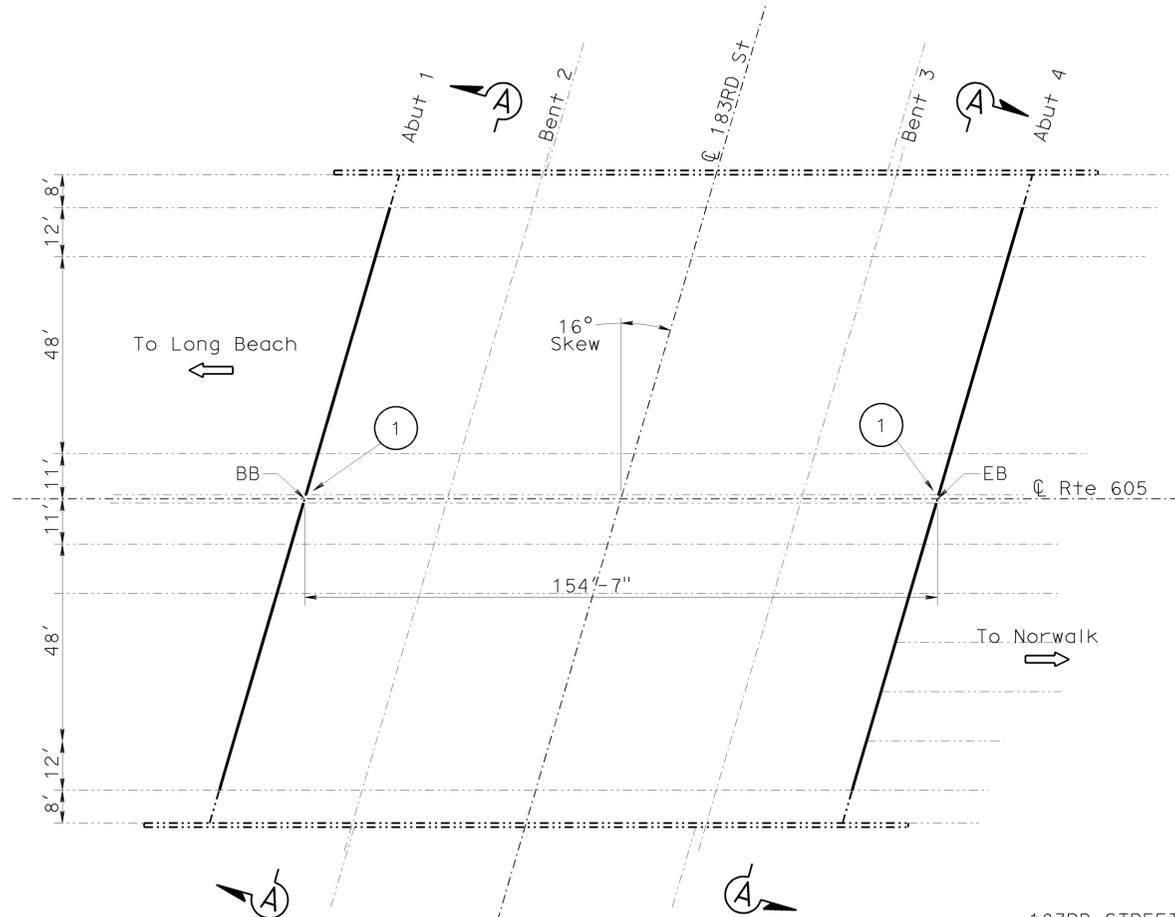
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-26-13 08-19-13 11-07-13 11-15-13	01	19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	22	39
Edward Li			11-15-13	REGISTERED CIVIL ENGINEER DATE	
1-13-14			PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete patch.
- ① Indicates locations of injection vertical crack on abutment 1 & 4 walls with epoxy.



183RD STREET UC
 Br No. 53-1711, Rte 605, PM R4.26
 Scale 1"=20'

183RD STREET UC #53-1711
 QUANTITIES

INJECT CRACK (EPOXY)	6 LF
CLEAN EXPANSION JOINT	300 LF
JOINT SEAL (MR 1/2")	300 LF

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

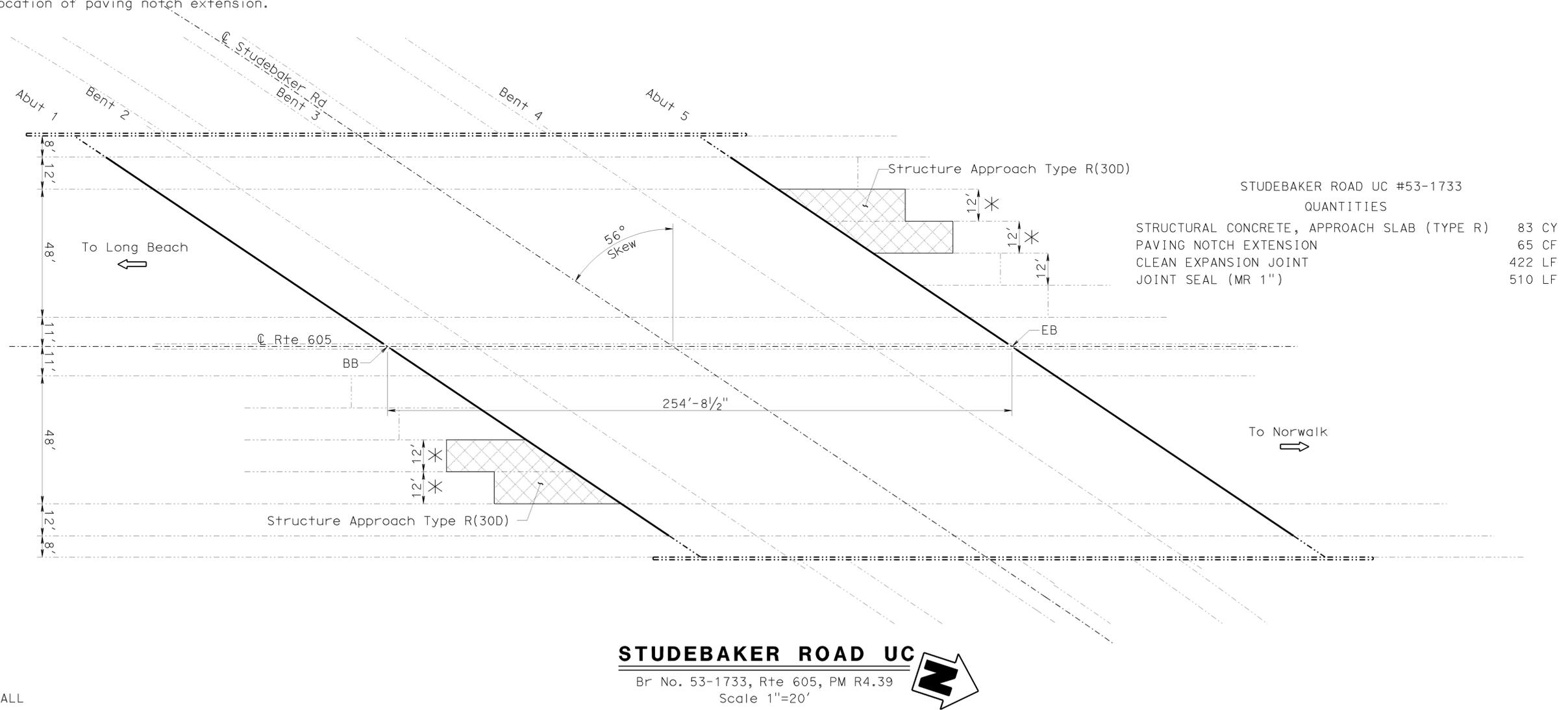
TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 605 BRIDGES GENERAL PLAN NO. 2				
	DETAILS	BY Clayton Tom	CHECKED Hong Tien Tran	LAYOUT	BY Clayton Tom			CHECKED Edward Li		POST MILE			
	QUANTITIES	BY Edward Li	CHECKED Edward Li	SPECIFICATIONS	BY James Choi	CHECKED James Choi	VARIES						
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489	PROJECT NUMBER & PHASE: 0713000063 1	CONTRACT NO.: 07-1W6801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 02	OF 19

USERNAME => s117283 DATE PLOTTED => 15-NOV-2013 TIME PLOTTED => 10:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	23	39
Edward Li			11-15-13	REGISTERED CIVIL ENGINEER DATE	
1-13-14			PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates limits of remove and replace existing and place new Structure Approach Type R(30D).
- Indicates limits of clean and treat existing bridge deck surface with high molecular weight methacrylate.
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete patch.
- * Indicates location of paving notch extension.



STUDEBAKER ROAD UC #53-1733
QUANTITIES

STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	83 CY
PAVING NOTCH EXTENSION	65 CF
CLEAN EXPANSION JOINT	422 LF
JOINT SEAL (MR 1")	510 LF

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

STUDEBAKER ROAD UC
Br No. 53-1733, Rte 605, PM R4.39
Scale 1"=20'

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Hong Tien Tran	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Li	CHECKED Edward Li	SPECIFICATIONS	BY James Choi

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

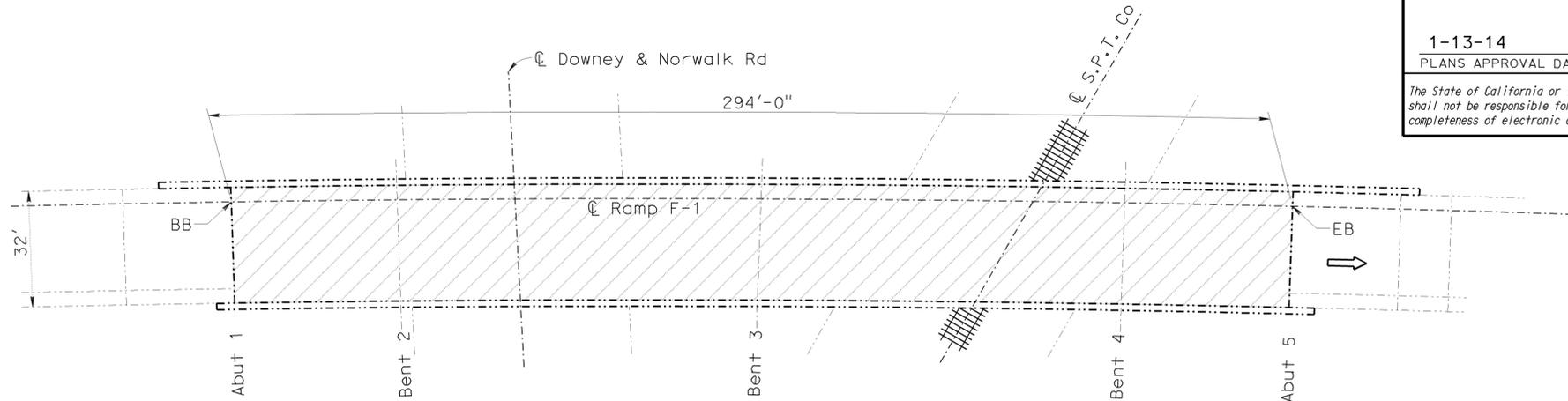
ROUTES 605 BRIDGES	
GENERAL PLAN NO. 3	
REVISION DATES	SHEET OF
08-26-13 08-19-13 11-07-13 11-15-13	03 19

USERNAME => s117283 DATE PLOTTED => 15-NOV-2013 TIME PLOTTED => 10:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	24	39
Edward Li			11-15-13	REGISTERED CIVIL ENGINEER DATE	
1-13-14			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck surface with high molecular weight methacrylate.

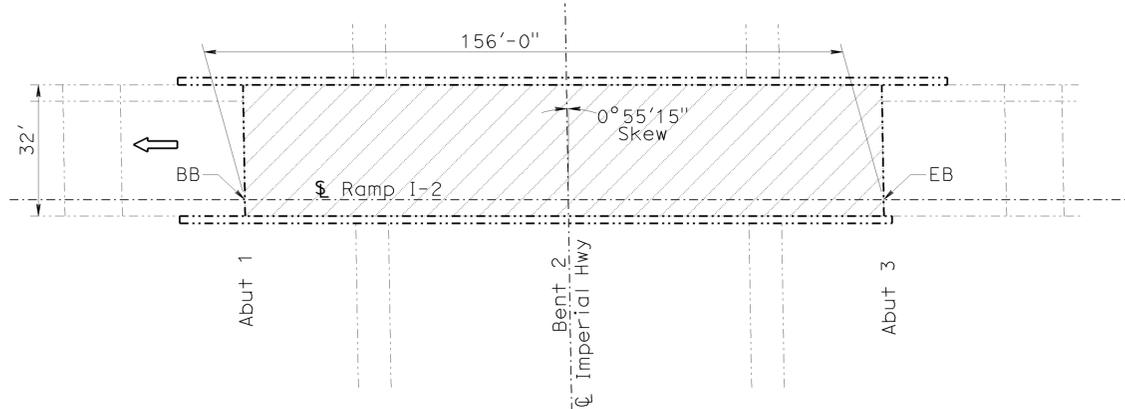


HOXIE OH

Br No. 53-1652S, Rte 605, PM R8.23
Scale 1"=20'

HOXIE OH #53-1652S
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	9,410 SQFT
TREAT BRIDGE DECK	9,410 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	118 GAL

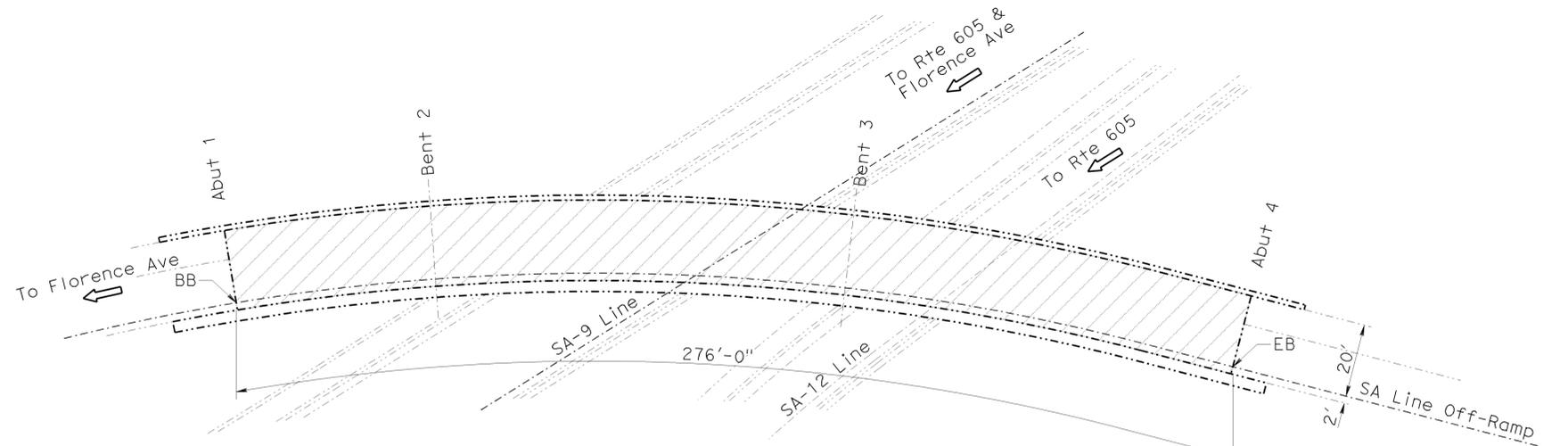


IMPERIAL HIGHWAY UC

Br No. 53-1651K, Rte 605, PM R7.85
Scale 1"=20'

IMPERIAL HIGHWAY UC #53-1651K
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



FLORENCE OFF-RAMP OC (SOUTHWEST CONNECTOR)

Br No. 53-1659K, Rte 605, PM R9.54
Scale 1"=20'



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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Hong Tien Tran	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Li	CHECKED Edward Li	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

**ROUTES 605 BRIDGES
GENERAL PLAN NO. 4**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489
PROJECT NUMBER & PHASE: 0713000063 1 CONTRACT NO.: 07-1W6801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-26-13 08-19-13 11-07-13 11-15-13	04	19

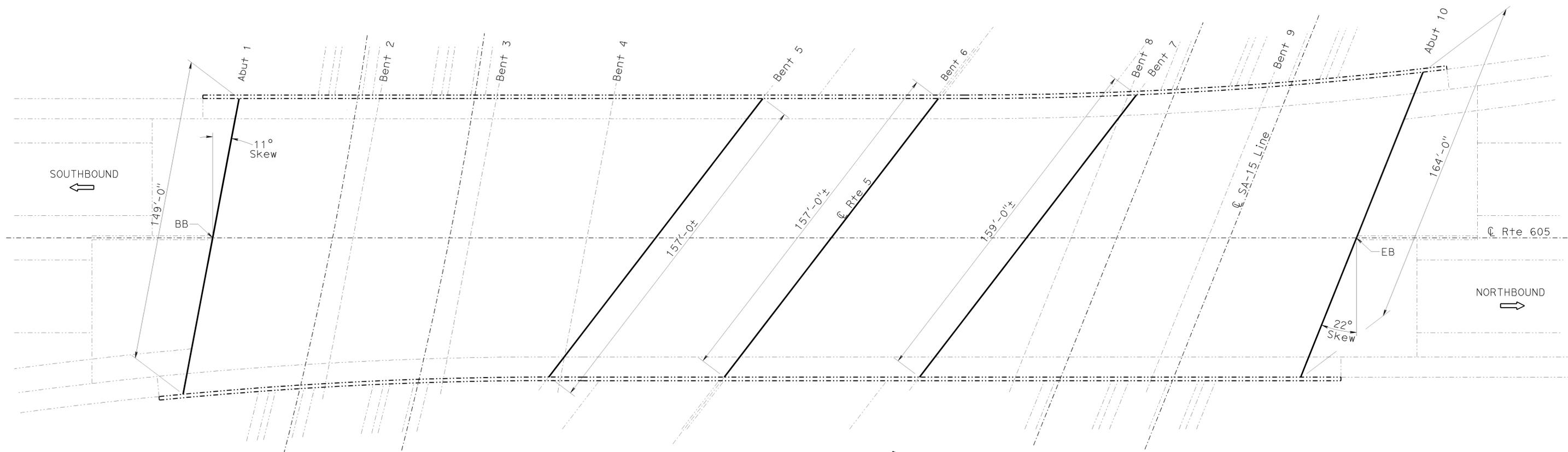
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USERNAME => s117283 DATE PLOTTED => 15-NOV-2013 TIME PLOTTED => 10:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	25	39
<i>Edward Li</i> REGISTERED CIVIL ENGINEER			11-15-13 DATE		
1-13-14 PLANS APPROVAL DATE			The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete patch.



ROUTE 605/5 SEPARATION

Br No. 53-1660, Rte 605, PM R9.55
No Scale

ROUTE 605/5 SEPARATION #53-1660
QUANTITIES

CLEAN EXPANSION JOINT	790 LF
JOINT SEAL (MR 1 1/2")	790 LF

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

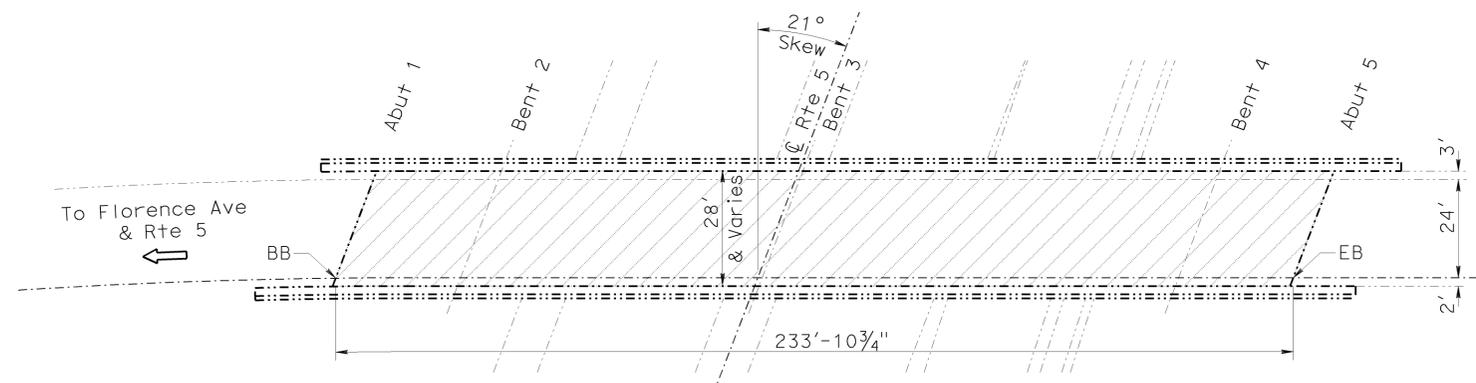
TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 605 BRIDGES GENERAL PLAN NO. 5	
	DETAILS	BY Clayton Tom	CHECKED Hong Tien Tran	LAYOUT	BY Clayton Tom			CHECKED Edward Li		POST MILE
	QUANTITIES	BY Edward Li	CHECKED Edward Li	SPECIFICATIONS	BY James Choi			CHECKED James Choi		Varies
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)										
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						UNIT: 3489 PROJECT NUMBER & PHASE: 0713000063 1	CONTRACT NO.: 07-1W6801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 08-26-13 08-19-13 11-07-13 11-15-13	SHEET 05 OF 19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	26	39

Edward Li 11-15-13
 REGISTERED CIVIL ENGINEER DATE
 1-13-14
 PLANS APPROVAL DATE
 No. C56706
 Exp. 06/30/15
 CIVIL
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LEGEND:

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- ▨ Indicates limits of clean and treat existing bridge deck surface with high molecular weight methacrylate.



S605-S5 CONNECTOR OC

Br No. 53-1083F, Rte 605, PM R9.65
Scale 1"=20'

S605-S5 CONNECTOR OC #53-1083F

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	6,790 SQFT
TREAT BRIDGE DECK	6,790 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	85 GAL

NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 605 BRIDGES GENERAL PLAN NO. 6
	DETAILS	BY Clayton Tom	CHECKED Hong Tien Tran	LAYOUT	BY Clayton Tom			CHECKED Edward Li	
	QUANTITIES	BY Edward Li	CHECKED Edward Li	SPECIFICATIONS	BY James Choi	CHECKED James Choi	PLANS AND SPECS COMPARED	Varies	

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



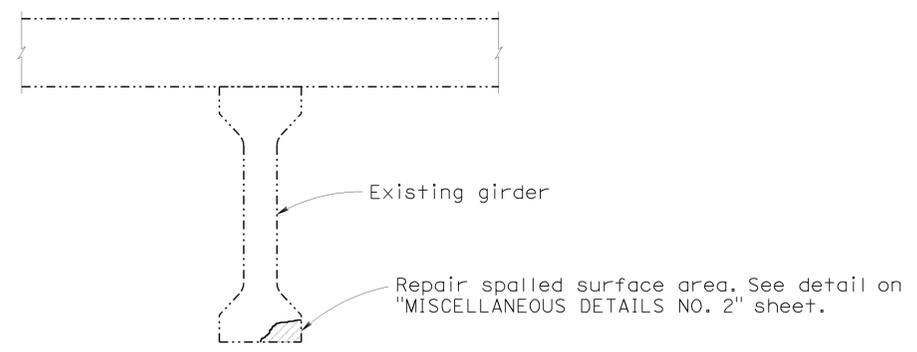
UNIT: 3489
PROJECT NUMBER & PHASE: 0713000063 1 CONTRACT NO.: 07-1W6801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-26-13 08-19-13 11-07-13 11-15-13	06	19

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck surface with high molecular weight methacrylate.
- ① Indicates locations of repair spalled surface area see detail and table for sizes.



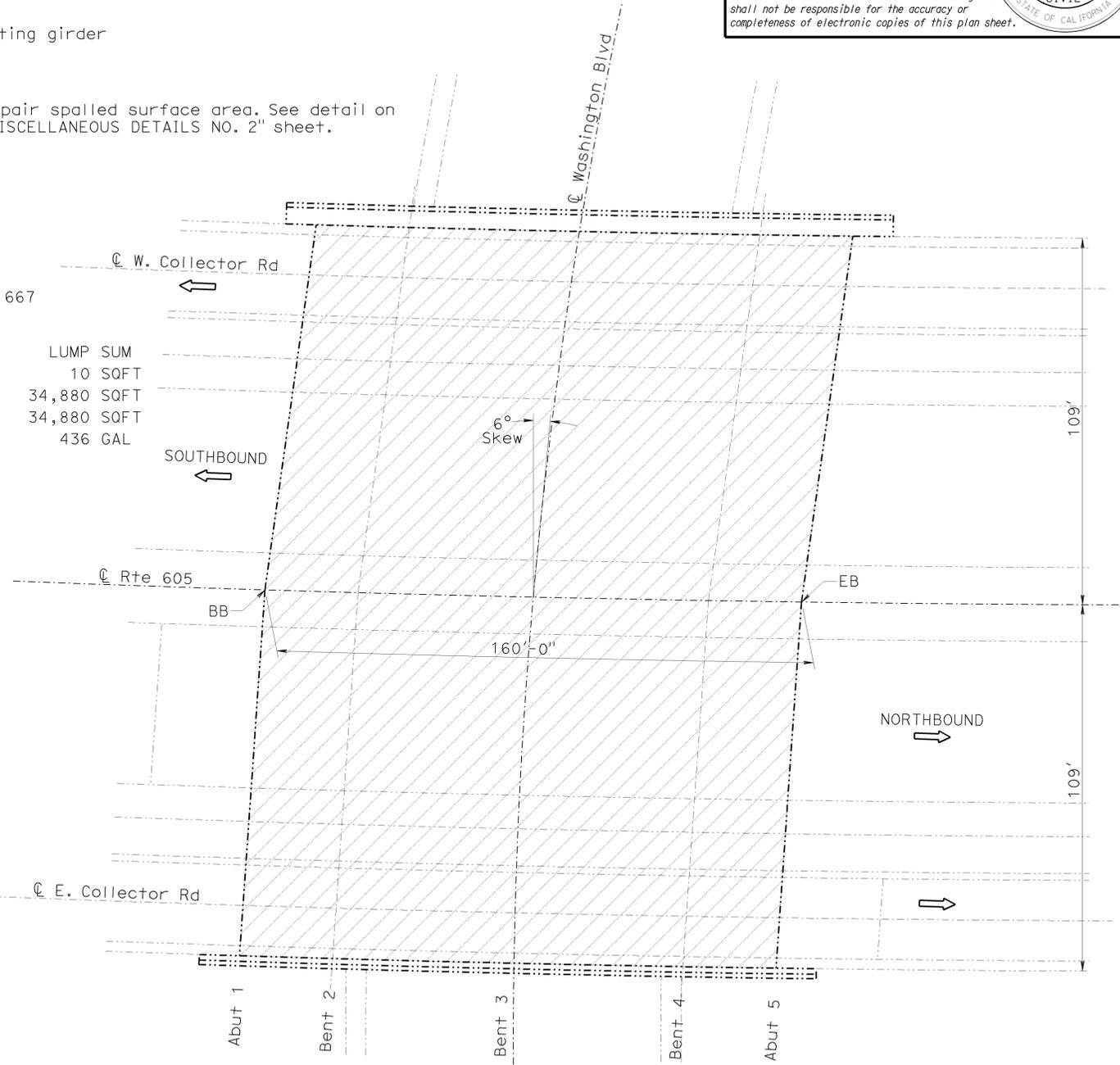
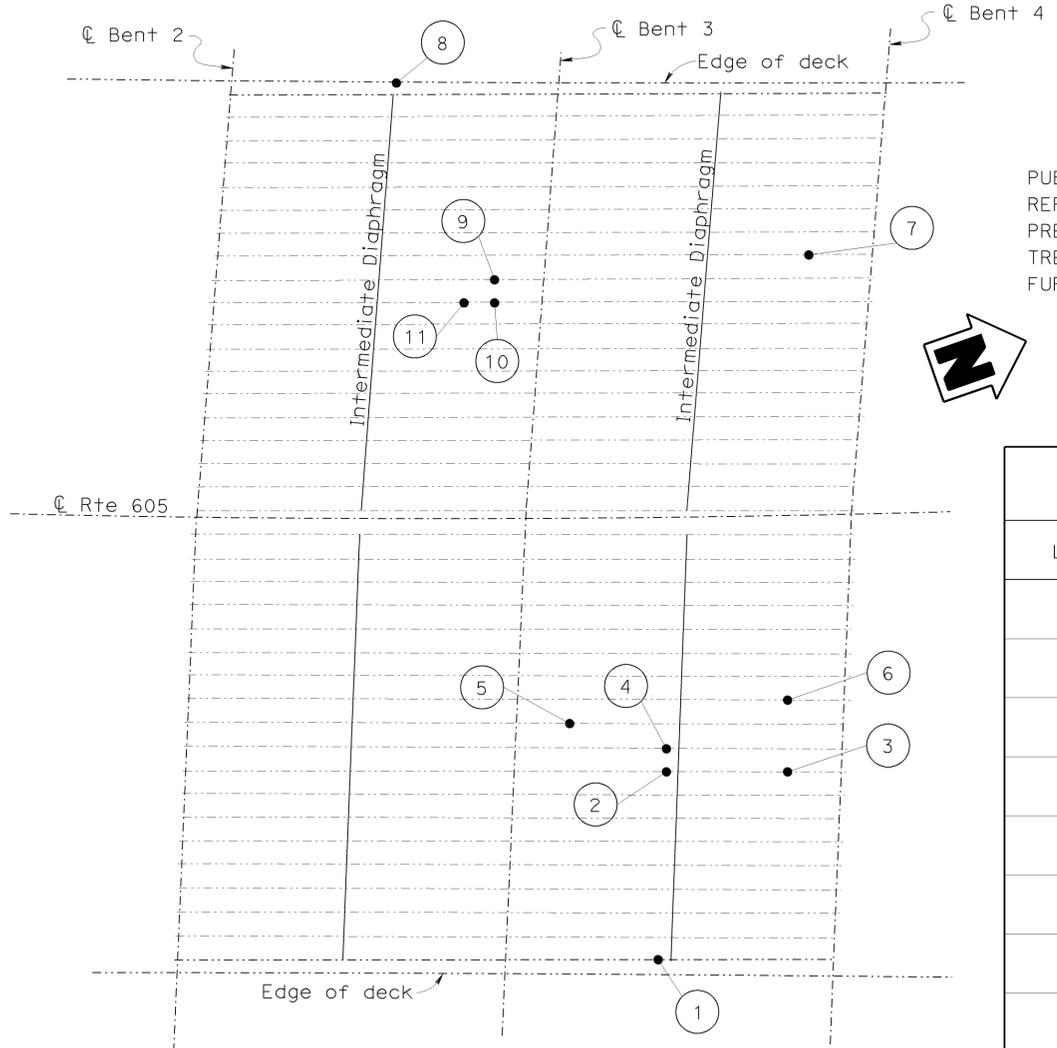
DETAIL A

WASHINGTON BOULEVARD UC #53-1667 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM	10 SQFT
REPAIR SPALLED SURFACE AREA	34,880 SQFT	
PREPARE CONCRETE BRIDGE DECK SURFACE	34,880 SQFT	
TREAT BRIDGE DECK	436 GAL	
FURNISH BRIDGE DECK TREATMENT MATERIAL		

TABLE

LOCATION	SIZE FT x FT
①	2 x 1
②	1 x 1
③	0.5 x 0.5
④	1 x 1
⑤	1 x 1
⑥	0.5 x 0.5
⑦	1 x 1
⑧	1 x 1
⑨	1 x 0.5
⑩	1 x 1
⑪	1 x 1



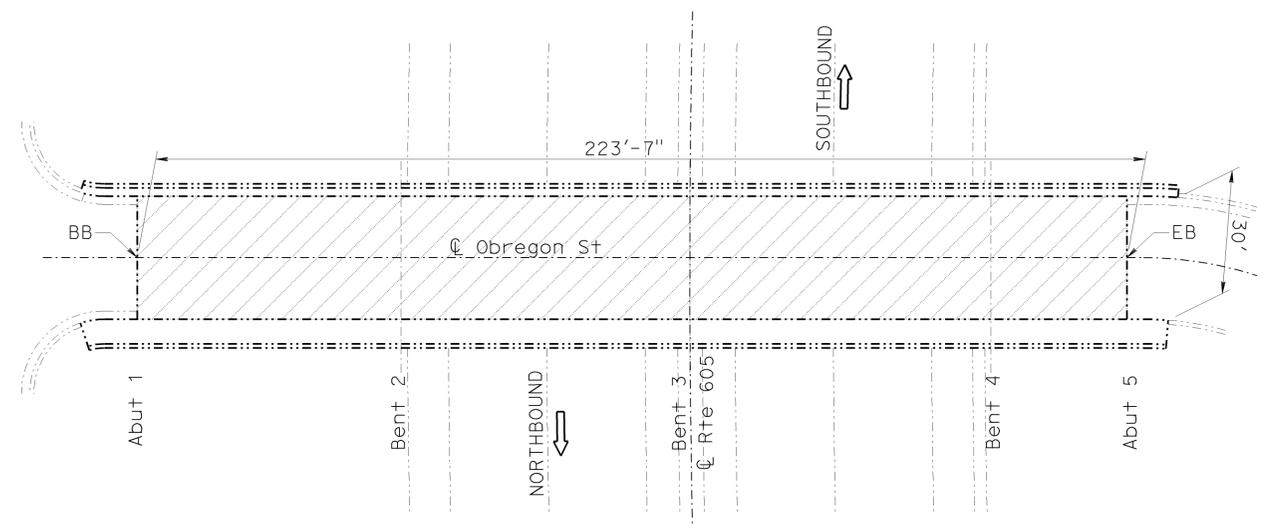
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	28	39

Edward Li 11-15-13
 REGISTERED CIVIL ENGINEER DATE
 1-13-14
 PLANS APPROVAL DATE
 No. C56706
 Exp. 06/30/15
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

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- Indicates direction of traffic.
-  Indicates limits of clean and treat existing bridge deck surface with high molecular weight methacrylate.
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete patch.
- ① Indicates locations of injection horizontal crack on abutment 1 wall with epoxy see elevation.

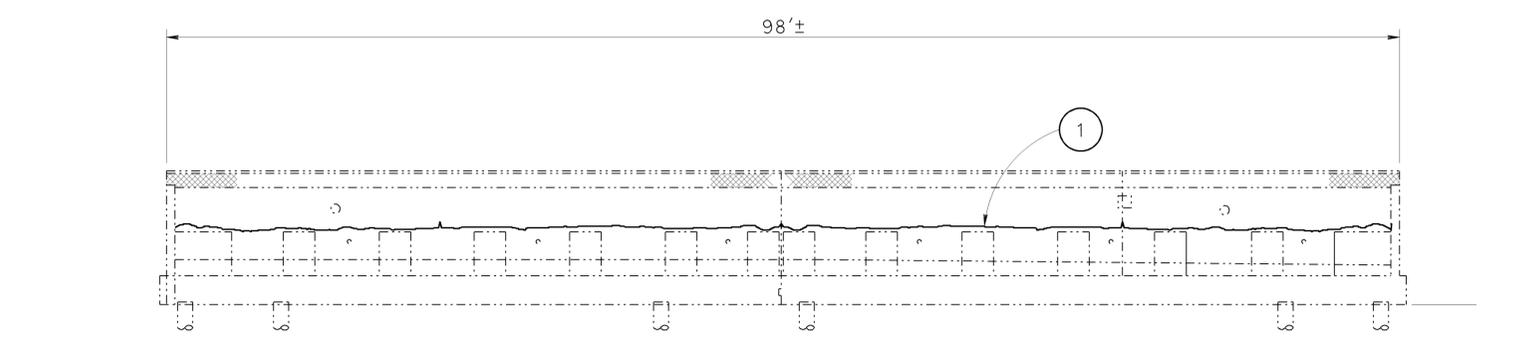


OBREGON STREET OC

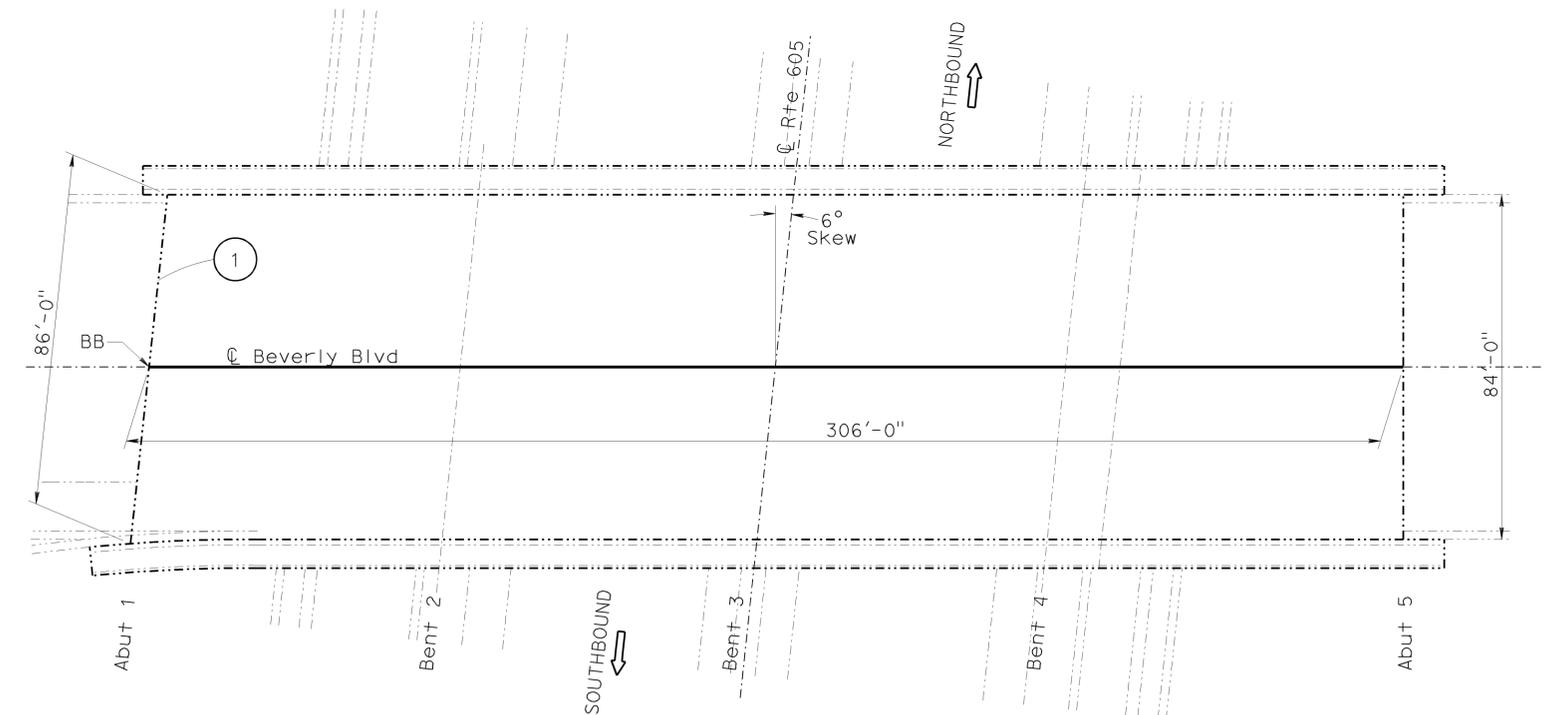
Br No. 53-1529, Rte 605, PM R13.98
Scale 1"=20'

OBREGON STREET OC #53-1529
QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	6,710 SQFT
TREAT BRIDGE DECK	6,710 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	84 GAL



ABUTMENT 1 ELEVATION



BEVERLY BOULEVARD OC #53-1531
QUANTITIES

INJECT CRACK (EPOXY)	98 LF
CLEAN EXPANSION JOINT	306 LF
JOINT SEAL (TYPE AL)	306 LF

BEVERLY BOULEVARD OC

Br No. 53-1531, Rte 605, PM R14.41
Scale 1"=20'

NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Hong Tien Tran	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Li	CHECKED Edward Li	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

**ROUTES 605 BRIDGES
GENERAL PLAN NO. 8**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489
PROJECT NUMBER & PHASE: 0713000063 1 CONTRACT NO.: 07-1W6801

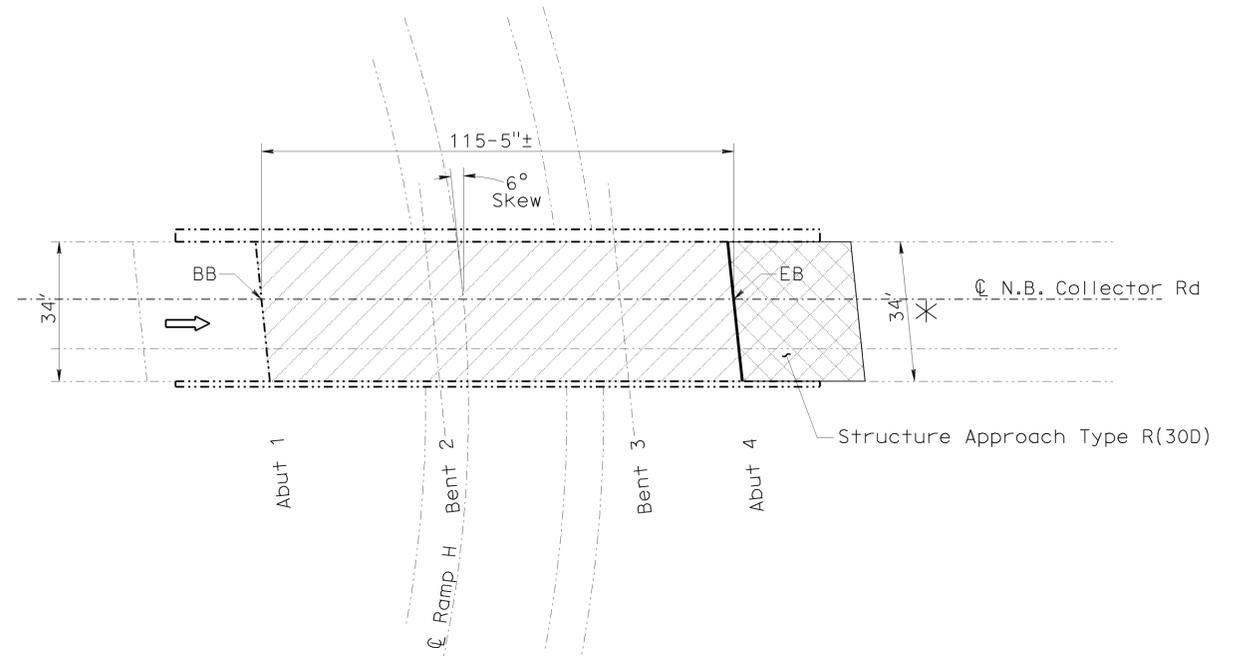
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-26-13 08-19-13 11-07-13 11-15-13	08	19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	29	39
Edward Li			11-15-13	REGISTERED CIVIL ENGINEER DATE	
1-13-14			PLANS APPROVAL DATE		
No. C56706 Exp. 06/30/15 REGISTERED PROFESSIONAL ENGINEER EDWARD GUOJUN LI CIVIL STATE OF CALIFORNIA					
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LEGEND:

- Indicates existing.
- Indicates direction of traffic.
-  Indicates limits of clean and treat existing bridge deck surface with high molecular weight methacrylate.
- * Indicates location of paving notch extension.
-  Indicates limits of remove and replace existing and place new Structure Approach Type R(30D).



NORTH CONNECTOR UC (E10-N605)

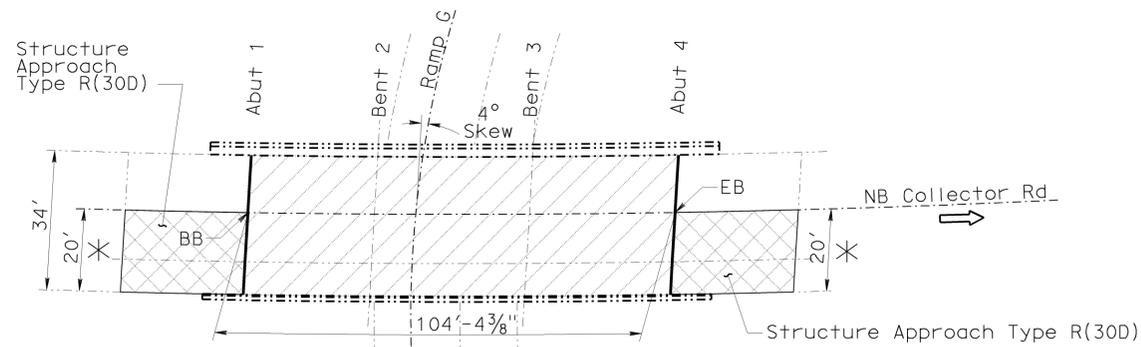
Br No. 53-1633G, Rte 10, PM 31.18
Scale 1"=20'

NORTH CONNECTOR UC (E10-N605) #53-1633G
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	3,930 SQFT
TREAT BRIDGE DECK	3,930 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	50 GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	46 CY
PAVING NOTCH EXTENSION	26 CF
JOINT SEAL (MR 1/2")	34 LF

SOUTH CONNECTOR UC (N605-W10) #53-1631G
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	3,550 SQFT
TREAT BRIDGE DECK	3,550 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	45 GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	54 CY
PAVING NOTCH EXTENSION	30 CF
CLEAN EXPANSION JOINT	28 LF
JOINT SEAL (MR 1/2")	68 LF



SOUTH CONNECTOR UC (N605-W10)

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

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Edward Li	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Hong Tien Tran	LAYOUT	BY Clayton Tom
QUANTITIES	BY Edward Li	CHECKED Edward Li	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

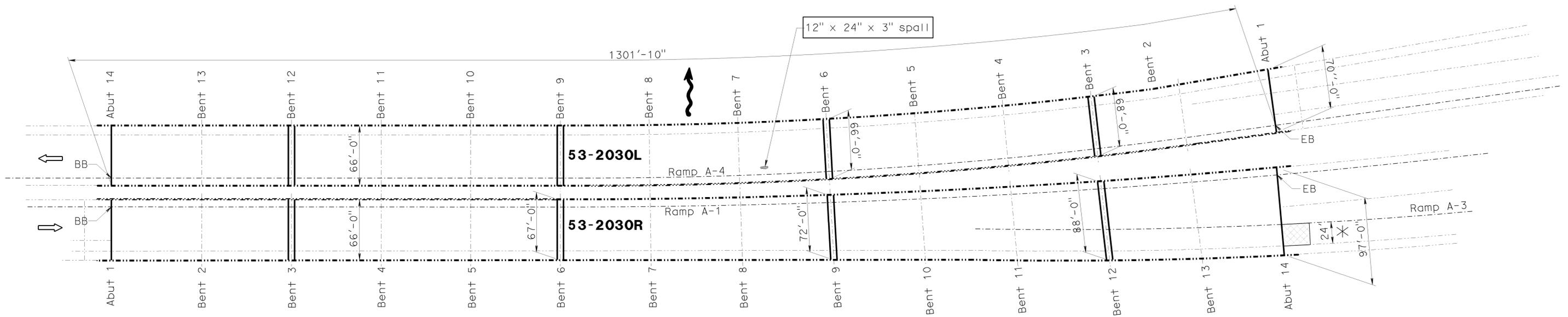
ROUTES 605 BRIDGES
GENERAL PLAN NO. 9

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of remove and replace existing and place new Structure Approach Type R(30D).
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete patch.
- ▨ Indicates removal of unsound concrete and place rapid setting concrete (patch).
- * Indicates location of paving notch extension.

NOTE:

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



SANTA FE FLOOD BASIN

Br No. 53-2030L/R, Rte 605, PM 25.09
Scale 1"=50'

SANTA FE FLOOD BASIN #53-2030L/R
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	2 CF
REMOVE UNSOUND CONCRETE	2 CF
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	32 CY
PAVING NOTCH EXTENSION	18 CF
CLEAN EXPANSION JOINT	1,395 LF
JOINT SEAL (MR 1/2")	1,420 LF

NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 605 BRIDGES GENERAL PLAN NO. 10	
	DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom			CHECKED Edward Li		POST MILE
	QUANTITIES	BY Edward Li	CHECKED Hong Tien Tran	SPECIFICATIONS	BY James Choi			CHECKED James Choi		PLANS AND SPECS COMPARED

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489
PROJECT NUMBER & PHASE: 0713000063 1 CONTRACT NO.: 07-1W6801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-26-13 08-19-13 11-07-13 11-15-13	10	19

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USERNAME => s117283 DATE PLOTTED => 15-NOV-2013 TIME PLOTTED => 10:32

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	31	39

Edward Li 11-15-13
 REGISTERED CIVIL ENGINEER DATE

1-13-14
 PLANS APPROVAL DATE

No. C56706
 Exp. 06/30/14
 CIVIL

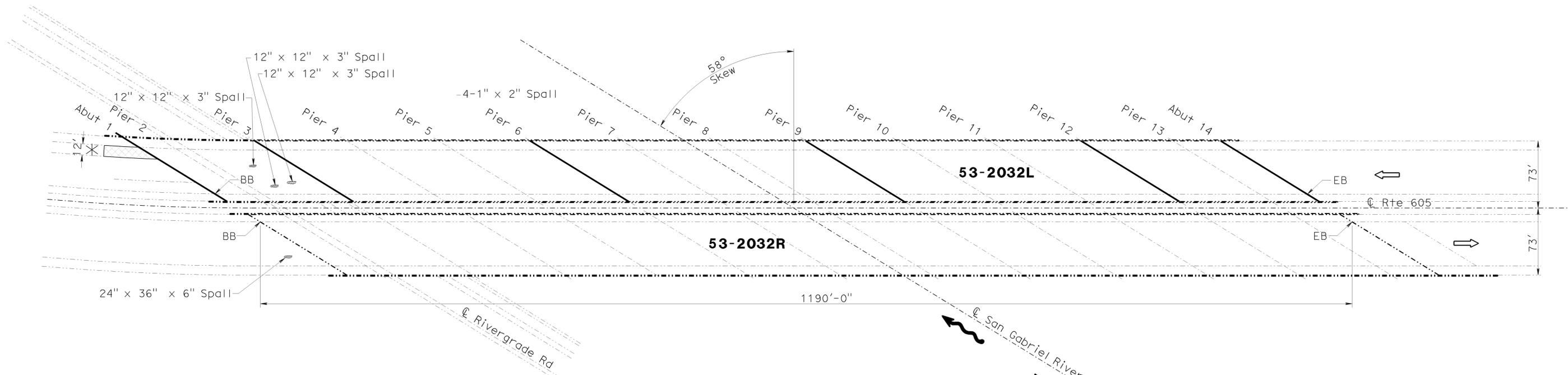
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LEGEND:

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- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of remove and replace existing and place new Structure Approach Type R(30D).
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete patch.
- ▤ Indicates removal of unsound concrete and place rapid setting concrete (patch).
- * Indicates location of paving notch extension.

NOTE:

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



SAN GABRIEL RIVER

Br No. 53-2032L/R, Rte 605, PM 25.09
 Scale 1"=50'

SAN GABRIEL RIVER BRIDGE #53-2032L/R

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	4 CF
REMOVE UNSOUND CONCRETE	4 CF
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	22 CY
PAVING NOTCH EXTENSION	17 CF
CLEAN EXPANSION JOINT	810 LF
JOINT SEAL (MR 1 1/2")	930 LF

NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 605 BRIDGES GENERAL PLAN NO. 11
	DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom			CHECKED Edward Li	
	QUANTITIES	BY Edward Li	CHECKED Hong Tien Tran	SPECIFICATIONS	BY James Choi	CHECKED James Choi	VARIES		

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3489 PROJECT NUMBER & PHASE: 0713000063 1 CONTRACT NO.: 07-1W6801 DISREGARD PRINTS BEARING EARLIER REVISION DATES

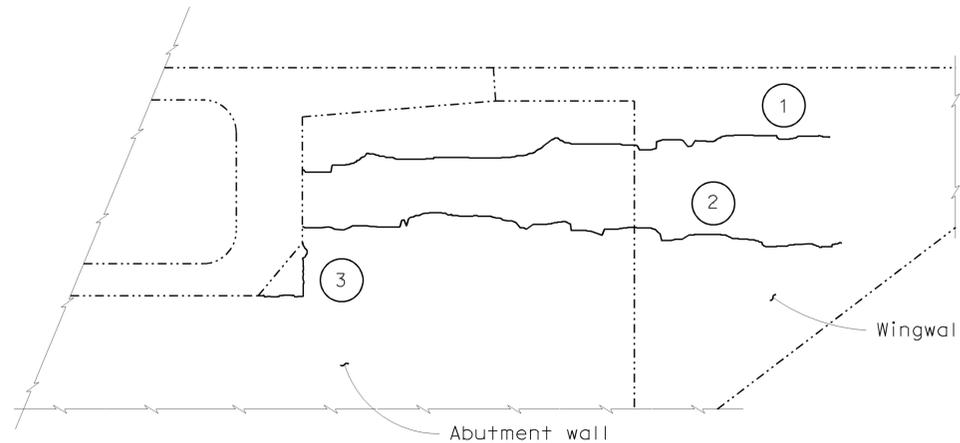
REVISION DATES				SHEET	OF
08-26-13	08-19-13	11-07-13	11-15-13	11	19

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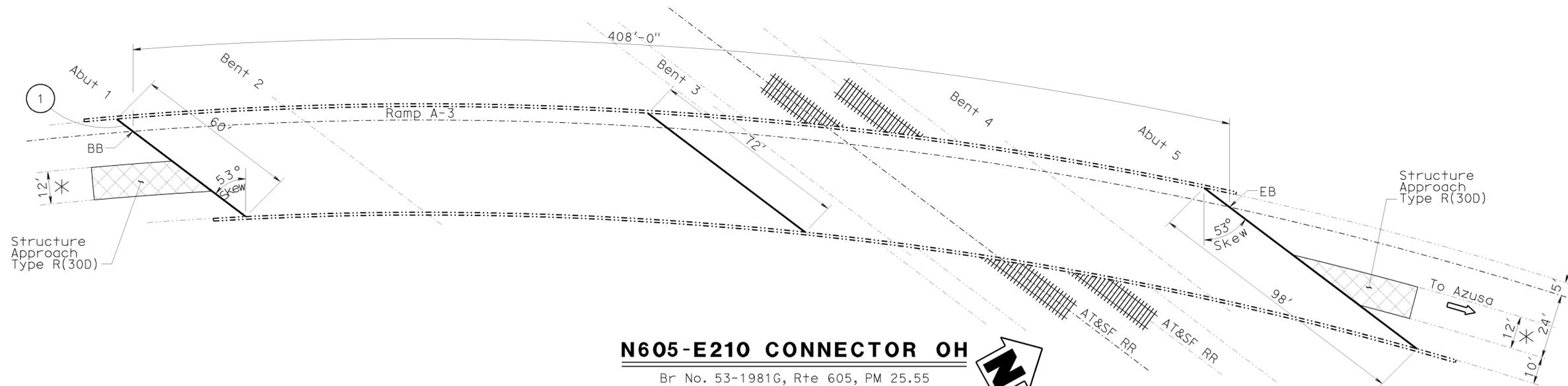
LEGEND:

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- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of remove and replace existing and place new Structure Approach Type R(30D).
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, repair joint by removing unsound concrete and placing rapid setting concrete patch.
- * Indicates location of paving notch extension.
- ① Indicates locations of injection vertical crack on abutment 1 & wingwall with epoxy.



PARTIAL ABUTMENT 1 ELEVATION

TABLE	
Location	Length (ft)
①	5
②	5
③	3



N605-E210 CONNECTOR OH

Br No. 53-1981G, Rte 605, PM 25.55
Scale 1"=20'

N605-E210 CONNECTOR OH #53-1981G
QUANTITIES

INJECT CRACK (EPOXY)	13 LF
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	41 CY
PAVING NOTCH EXTENSION	30 CF
CLEAN EXPANSION JOINT	190 LF
JOINT SEAL (MR 1 1/2")	230 LF

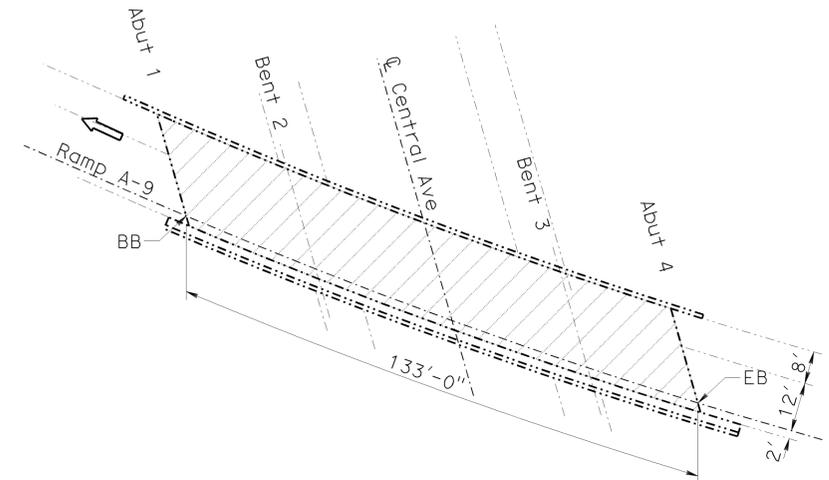
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 605 BRIDGES GENERAL PLAN NO. 12				
	DETAILS	BY Clayton Tom	CHECKED Hong Tien Tran	LAYOUT	BY Clayton Tom			CHECKED Edward Li		POST MILE			
	QUANTITIES	BY Edward Li	CHECKED Edward Li	SPECIFICATIONS	BY James Choi			CHECKED James Choi		PLANS AND SPECS COMPARED	Varies		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489	PROJECT NUMBER & PHASE: 0713000063 1	CONTRACT NO.: 07-1W6801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 12	OF 19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	33	39
Edward Li			11-15-13	REGISTERED CIVIL ENGINEER DATE	
1-13-14			PLANS APPROVAL DATE		
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HUNTINGTON DRIVE-S605/CENTRAL

Br No. 53-1958K, Rte 605, PM R25.98
Scale 1"=20'

**HUNTINGTON DRIVE-605/CENTRAL
QUANTITIES**

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	2,930 SQFT
TREAT BRIDGE DECK	2,930 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	37 GAL



N605-W210 CONNECTOR OH

Br No. 53-1982G, Rte 605, PM 25.56
Scale 1"=20'

**N605-W210 CONNECTOR OH #53-1982G
QUANTITIES**

CLEAN EXPANSION JOINT	80 LF
JOINT SEAL (MR 1 1/2")	80 LF

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Edward Li	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Hong Tien Tran	LAYOUT	BY Clayton Tom
QUANTITIES	BY Edward Li	CHECKED Edward Li	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

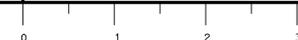
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

**ROUTES 605 BRIDGES
GENERAL PLAN NO. 13**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489
PROJECT NUMBER & PHASE: 0713000063 1 CONTRACT NO.: 07-1W6801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-26-13 08-19-13 11-07-13 11-15-13	13	19

FILE => 07-1w6801-a-gp13.dgn

USERNAME => s117283 DATE PLOTTED => 15-NOV-2013 TIME PLOTTED => 10:32

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	34	39
<i>Edward Li</i> REGISTERED CIVIL ENGINEER			11-15-13 DATE		
1-13-14 PLANS APPROVAL DATE				<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>	

LEGEND:

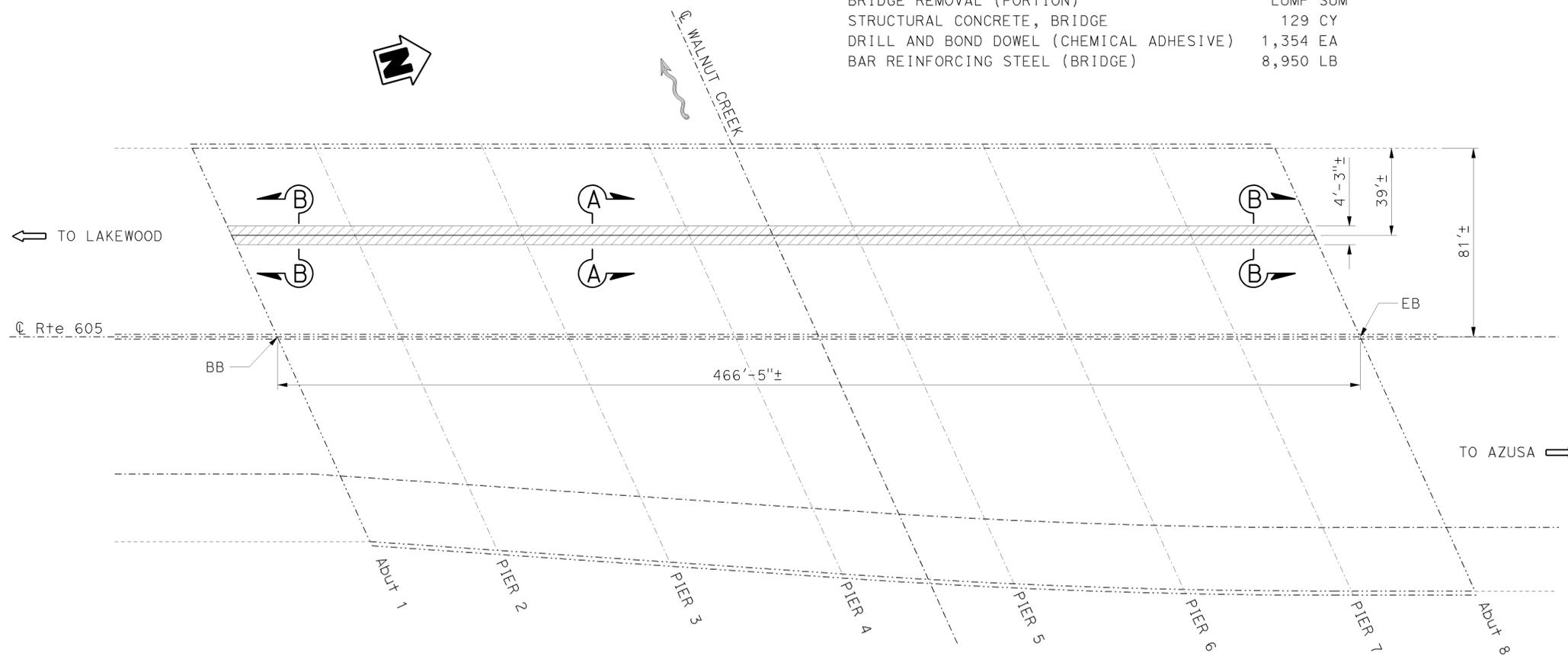
- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of work.

NOTES:

1. For SECTION A-A, see "SLAB REPAIR DETAILS" sheet.
2. All materials, fabrication, and construction shall conform with the 2010 State of California Caltrans Standard Specifications.

WALNUT CREEK BRIDGE #53-1343
QUANTITIES

CORE CONCRETE (4")	116 LF
BRIDGE REMOVAL (PORTION)	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	129 CY
DRILL AND BOND DOWEL (CHEMICAL ADHESIVE)	1,354 EA
BAR REINFORCING STEEL (BRIDGE)	8,950 LB



**GENERAL NOTES
LOAD FACTOR DESIGN**

- DESIGN: CALTRANS BRIDGE DESIGN SPECIFICATIONS, APRIL 2000 (LFD) (1996 AASHTO with INTERIMS and REVISIONS by CALTRANS)
- DEAD LOAD: Includes 35 psf for future wearing surface.
- LIVE LOADING: HS20-44 and alternative and permit design load.
- REINFORCED CONCRETE:
- $f_y = 60,000$ psi
 - $f'_c = 3,600$ psi
 - $n = 8$
- Transverse Deck Slabs (Working Stress Design)
- $f_s = 20,000$ psi
 - $f_c = 1,200$ psi
 - $n = 10$

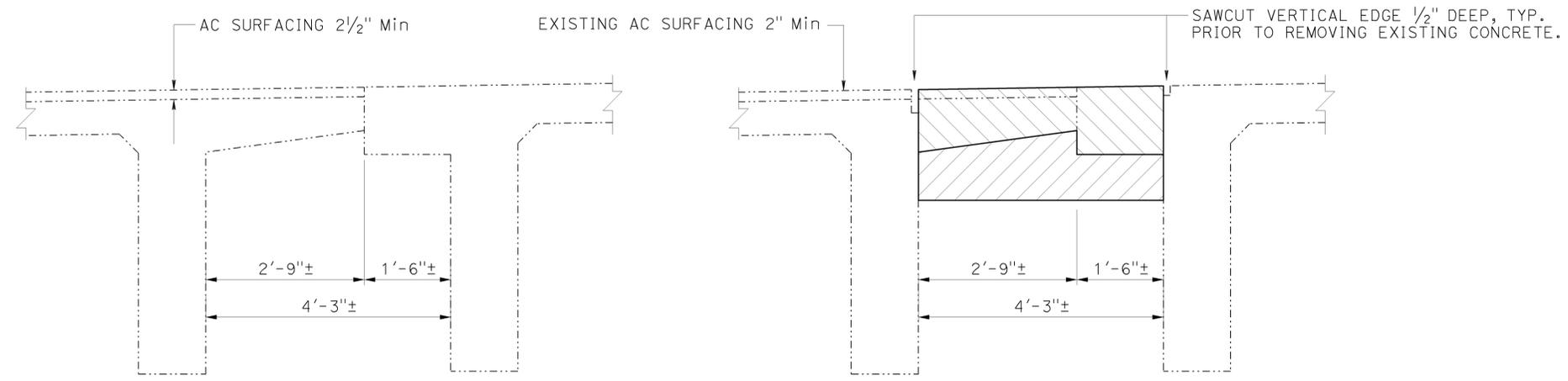
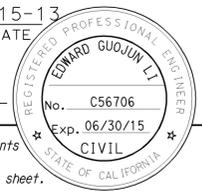
WALNUT CREEK BRIDGE

Br No. 53-1343, Rte 605, R 19.85
No Scale

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 605 BRIDGES GENERAL PLAN NO. 14					
	DETAILS	BY Clayton Tom	CHECKED Hong Tien Tran	LAYOUT	BY Clayton Tom			CHECKED Edward Li		POST MILE				
	QUANTITIES	BY Edward Li	CHECKED Edward Li	SPECIFICATIONS	BY James Choi			CHECKED James Choi		PLANS AND SPECS COMPARED	Varies			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3489	PROJECT NUMBER & PHASE: 0713000063 1	CONTRACT NO.: 07-1W6801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 14	OF 19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	35	39
Edward Li			11-15-13	DATE	
REGISTERED CIVIL ENGINEER			DATE		
1-13-14			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.					



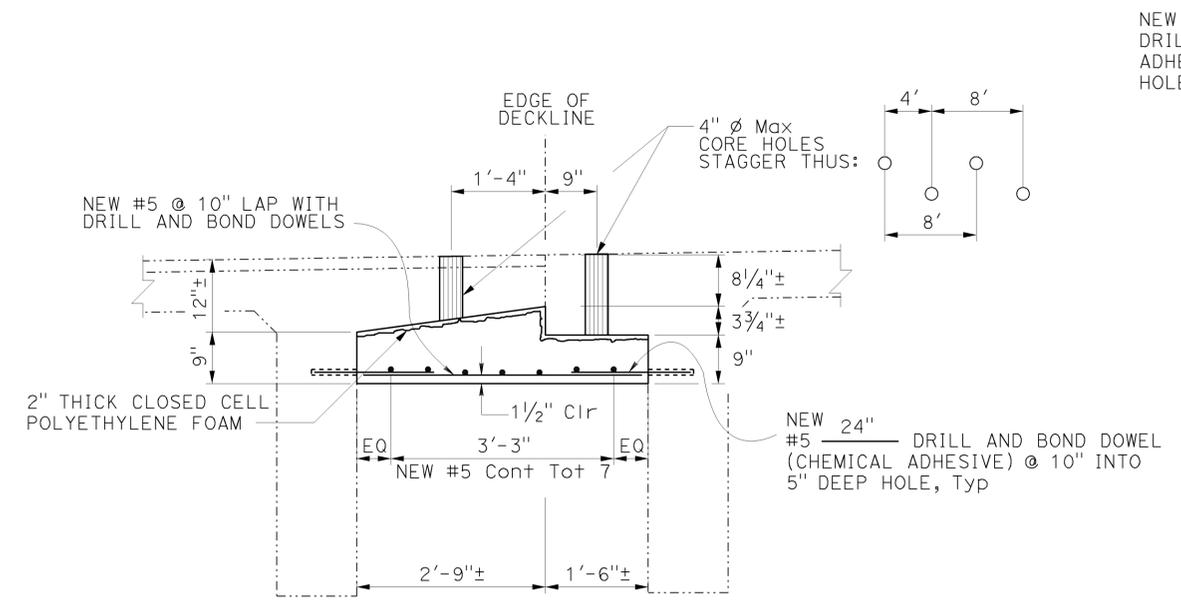
EXISTING

RECONSTRUCTION

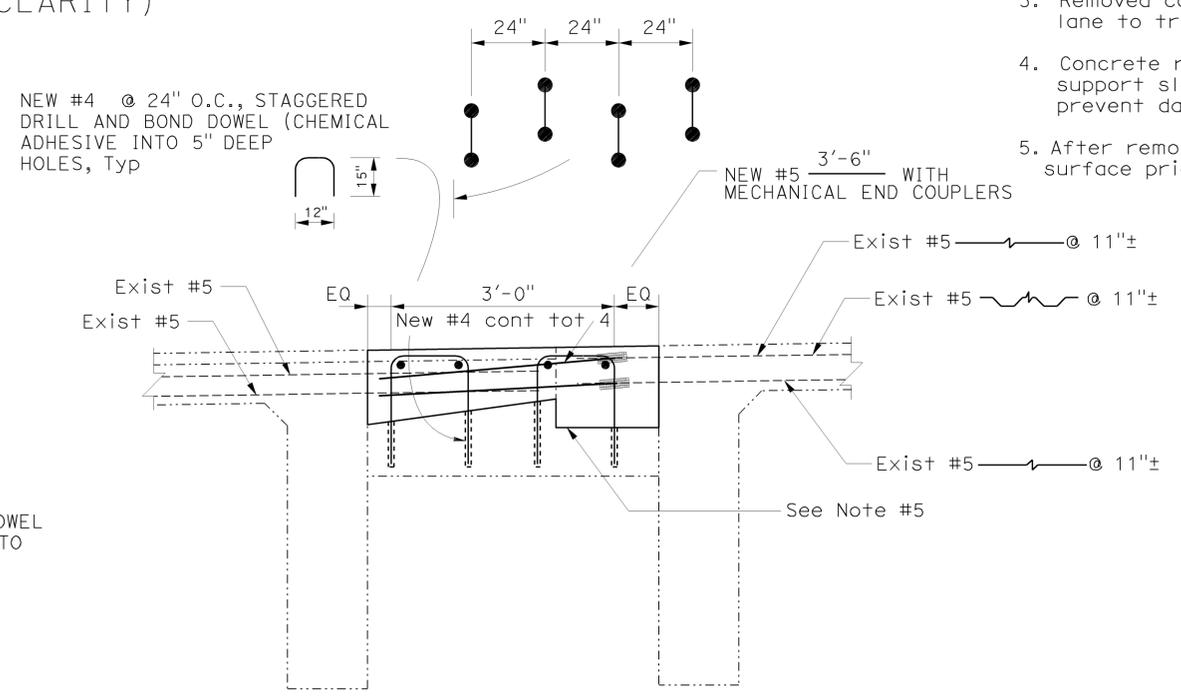
SECTION A-A
(At Existing Seismic Shear Blocks At Abutments)
 N.T.S.
 (REBAR DETAILS NOT SHOWN FOR CLARITY)

- LEGEND:**
- Indicates existing structure.
 - Indicates new structure.
 - Indicates new structure concrete, bridge (support slab). For reinforcement detail, see DETAIL A - PHASE 1.
 - Indicates remove existing concrete and fill with RSC for bridge deck. For reinforcement details, see DETAIL A - PHASE 2.
 - Indicates deck core holes, see Note 1.
 - Indicates existing reinforcement, preserve all existing that is intact.
 - or • Indicates new reinforcement.

- NOTES:**
- Core holes in existing overhangs for the convenience of the concrete support slab pour. Backfill with Rapid Setting concrete (patch).
 - The support slab shall provided a 1 inch gap at expansion joints to accomodate expansion and contraction.
 - Removed concrete shall be replaced prior to opening lane to traffic.
 - Concrete removal shall be performed after constructing support slab. The method of concrete removal shall prevent damaging support slab.
 - After remove bondbreaker, clean and rough support slab surface prior to backfilling RSC for bridge deck.



DETAIL A - PHASE 1
(CONSTRUCT SUPPORT SLAB)



DETAIL A - PHASE 2
(REPAIR DECK)

NOTE:
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DESIGN	BY Edward Li	CHECKED Hong Tien Tran
DETAILS	BY Clayton Tom	CHECKED Edward Li
QUANTITIES	BY Edward Li	CHECKED Hong Tien Tran

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

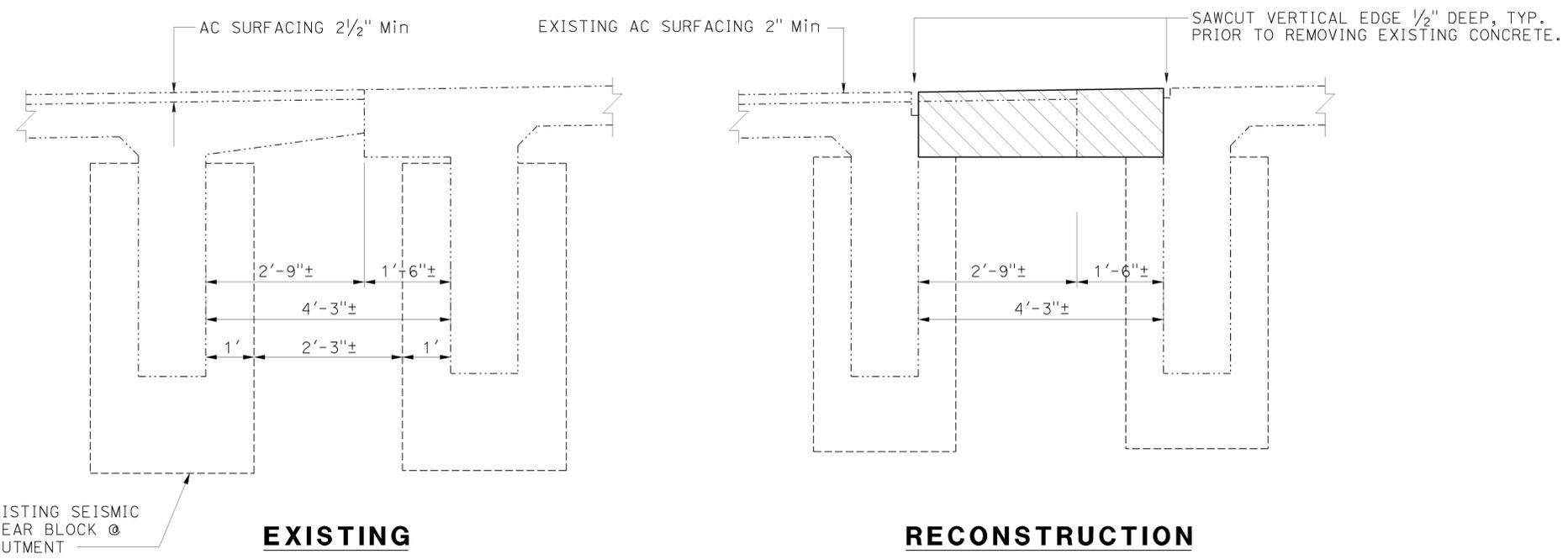
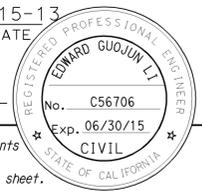
DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTES 605 BRIDGES
SLAB REPAIR DETAILS 1

USERNAME => s117263 DATE PLOTTED => 15-NOV-2013 TIME PLOTTED => 10:33

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	36	39
Edward Li		11-15-13		DATE	
REGISTERED CIVIL ENGINEER		DATE			
PLANS APPROVAL DATE					
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LEGEND:

- Indicates existing structure.
- Indicates new structure.
- Indicates remove existing concrete and fill with RSC for bridge deck. For reinforcement details, see DETAIL A.
- Indicates existing reinforcement, preserve all existing that is intact.
- or • Indicates new reinforcement.

EXISTING

RECONSTRUCTION

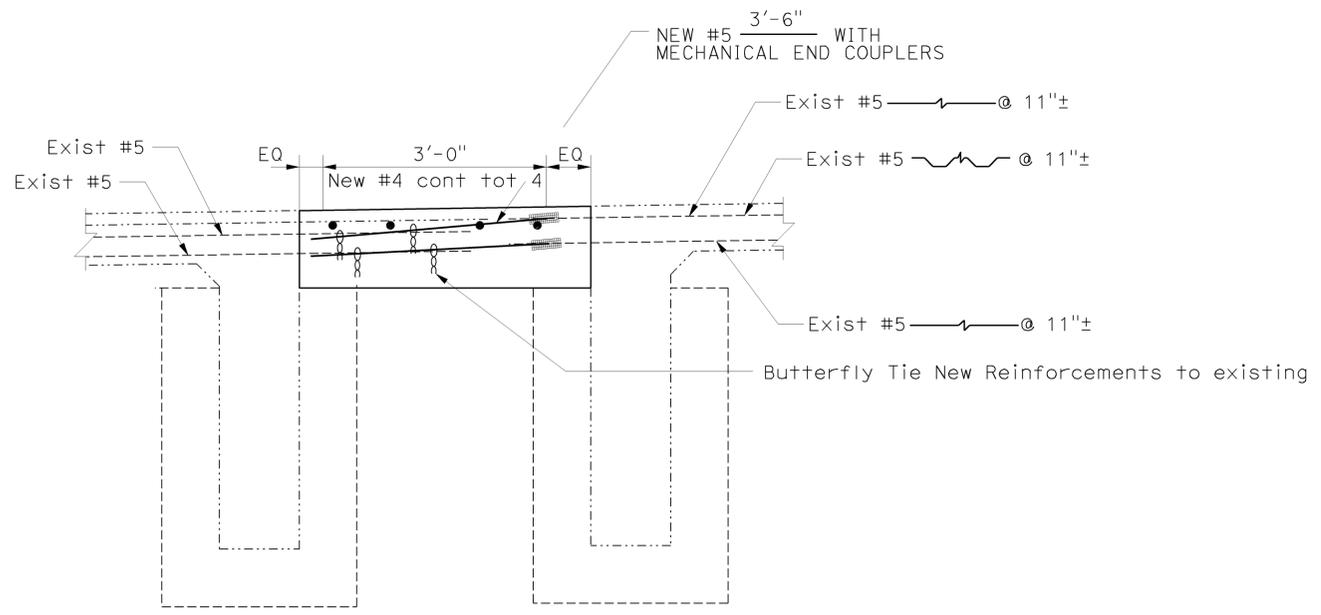
SECTION B-B

(At Existing Seismic Shear Blocks At Abutments)

N.T.S.
(REBAR DETAILS NOT SHOWN FOR CLARITY)

NOTE:

1. Removed concrete shall be replaced prior to opening lane to traffic.



DETAIL A
(REPAIR DECK)

NOTE:
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DESIGN	BY Edward Li	CHECKED Hong Tien Tran
DETAILS	BY Clayton Tom	CHECKED Edward Li
QUANTITIES	BY Edward Li	CHECKED Hong Tien Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

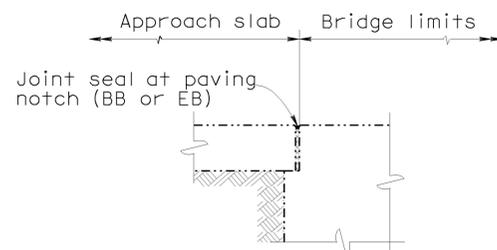
BRIDGE NO.	Various
POST MILE	Varies

ROUTES 605 BRIDGES
SLAB REPAIR DETAILS 2

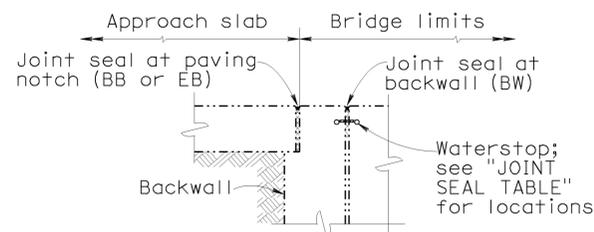
JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION		MINIMUM "MR" (INCHES)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX JOINT LENGTH (ft)
183RD Street OC	53-1711	Abut 1	PN	0.5	No	12	256
		Abut 4	PN	0.5	No	12	
Studebaker Road UC	53-1733	Abut 1	PN	1	No	12	422
		Abut 5	PN	1	No	12	
Route 605/5 Sep	53-1660	Abut 1	PN	1.5	No	12	786
		Bent 5		1.5	No	12	
		Bent 6		1.5	No	12	
		Bent 7		1.5	No	12	
Beverly Blvd OC	53-1531	Longitudinal	AL	-	No	12	306
South Connector UC (N605-W10)	53-1631G	Abut 1	PN	0.5	No	12	28
		Abut 4	PN	0.5	No	12	
North Connector UC (E10-N605)	53-1633G	Abut 4	PN	0.5	-	-	-
Santa Fe Flood Basin	53-2030L	Abut 1	PN	1.5	No	12	668
		Bent 3		1.5	No	12	
		Bent 6		1.5	No	12	
		Bent 9		1.5	No	12	
		Bent 12		1.5	No	12	
		Abut 14	PN	1.5	No	12	
Santa Fe Flood Basin	53-2030R	Abut 1	PN	1.5	No	12	725
		Bent 3		1.5	No	12	
		Bent 6		1.5	No	12	
		Bent 9		1.5	No	12	
		Bent 12		1.5	No	12	
		Abut 14	PN	1.5	No	12	
San Gabriel River	53-2032L	Abut 1	PN	1.5	No	12	806
		Pier 3		1.5	No	12	
		Pier 6		1.5	No	12	
		Pier 9		1.5	No	12	
		Pier 12		1.5	No	12	
		Abut 14	PN	1.5	No	12	
N605-E210 Conn OH	53-1981G	Abut 1	PN	1.5	No	12	199
		Bent 3		1.5	No	12	
		Abut 5	PN	1.5	No	12	
N605-W210 Conn OH	53-1982G	Abut 1	PN	1.5	No	12	80
		Abut 4	PN	1.5	No	12	

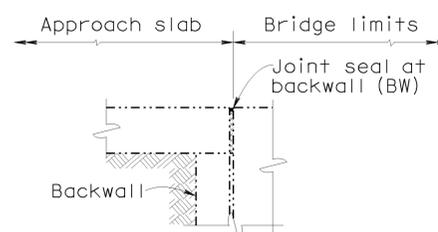
PN = Paving Notch



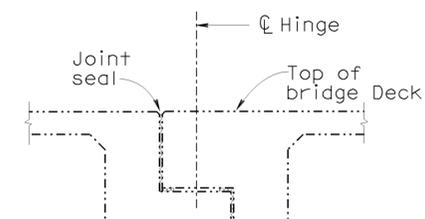
DIAPHRAGM ABUTMENT



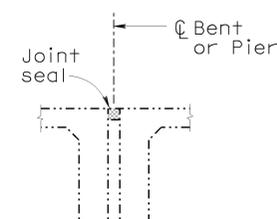
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

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JOINT SEAL LOCATION

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

NOTES:

The following notes apply to JOINT SEAL TYPE A:

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

For details not shown see Standard Plan B6-21.

The following notes apply to JOINT SEAL TYPE B:

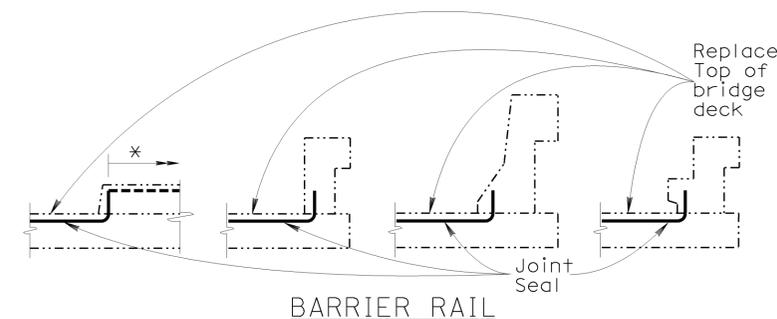
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

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

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

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

For details not shown see Standard Plan B6-21.



JOINT SEAL AT LOW SIDE OF DECK

Details shown for illustration purposes only.

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

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	37	39

Edward Li 11-15-13
 REGISTERED CIVIL ENGINEER DATE

1-13-14
 PLANS APPROVAL DATE

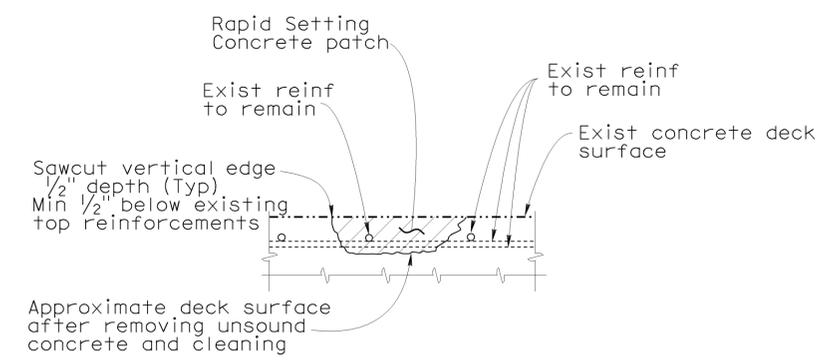
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,605	Var	38	39

Edward Li 11-15-13
 REGISTERED CIVIL ENGINEER DATE
 1-13-14
 PLANS APPROVAL DATE
 No. C56706
 Exp. 06/30/15
 CIVIL
 STATE OF CALIFORNIA
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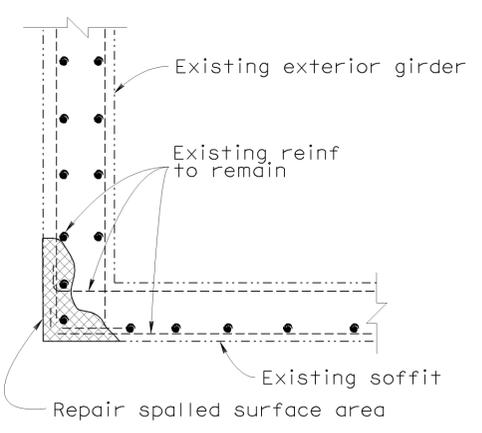
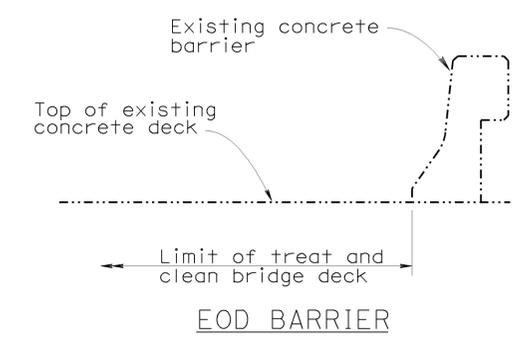
DECK REPAIR NOTES:

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



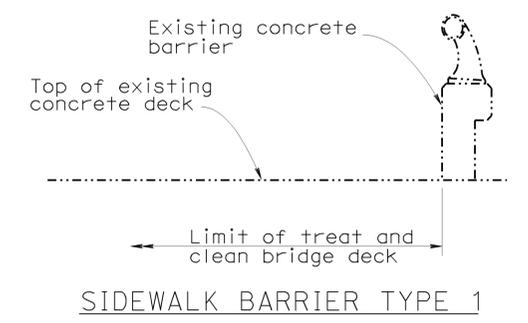
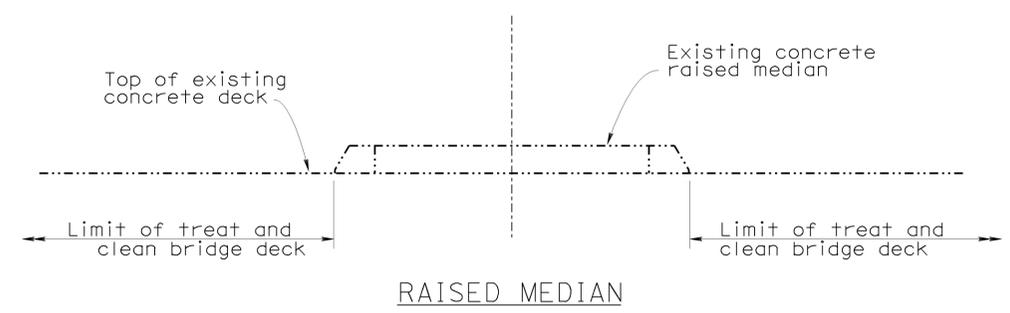
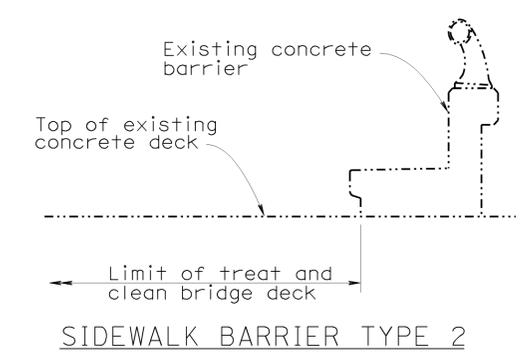
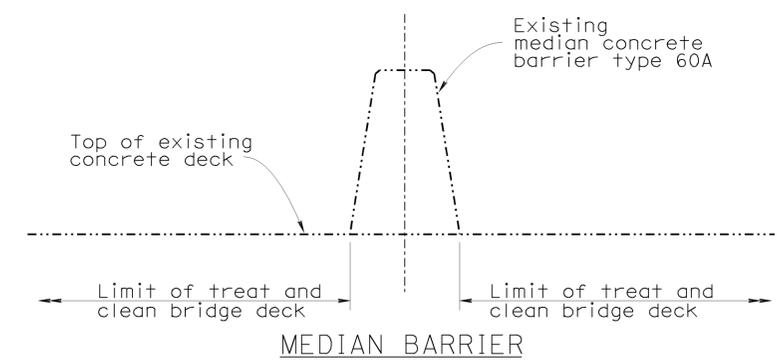
DECK DAMAGE REPAIR DETAIL

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



SPALLED SURFACE AREA DETAIL

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



TYPICAL LIMITS OF DECK WORK

NO SCALE

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DETAILS	BY Clayton Tom	CHECKED Edward Li
QUANTITIES	BY Edward Li	CHECKED Hong Tien Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTES 605 BRIDGES
MISCELLANEOUS DETAILS NO. 2

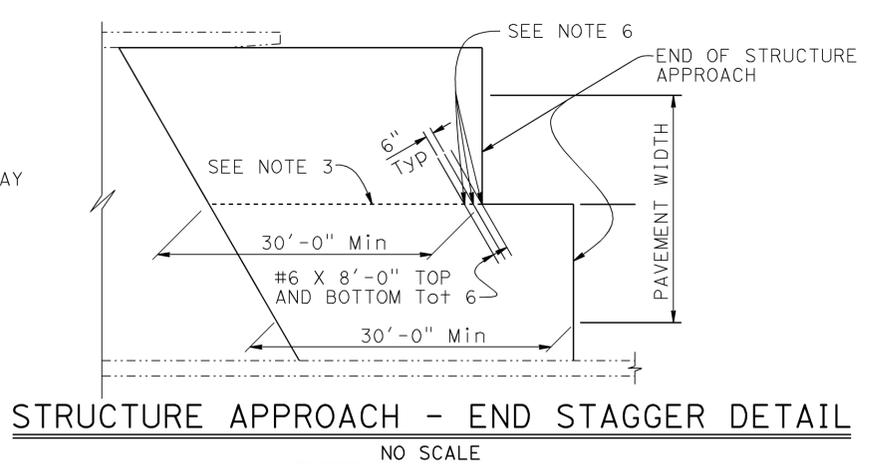
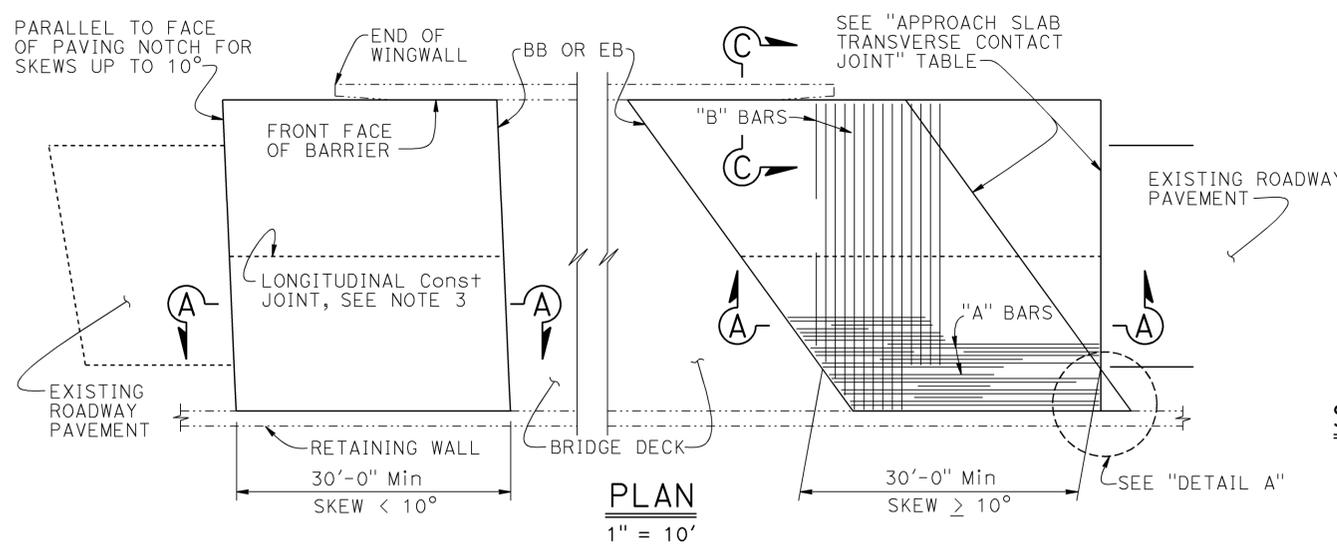
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Edward Li 11-15-13
 REGISTERED CIVIL ENGINEER DATE

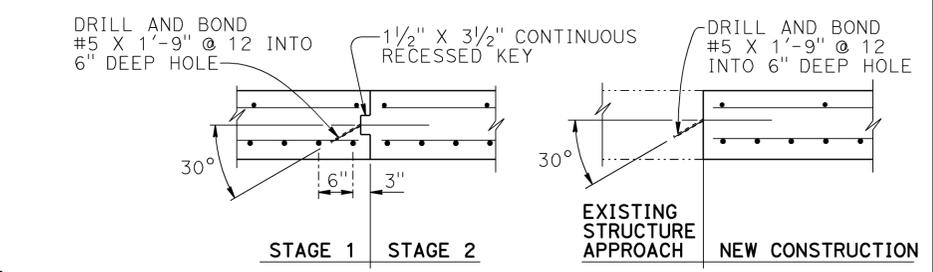
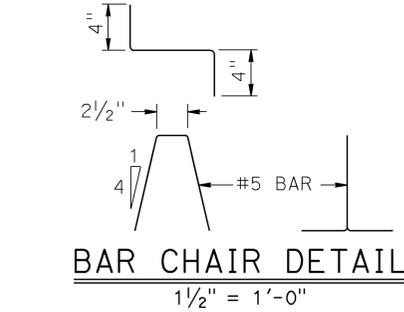
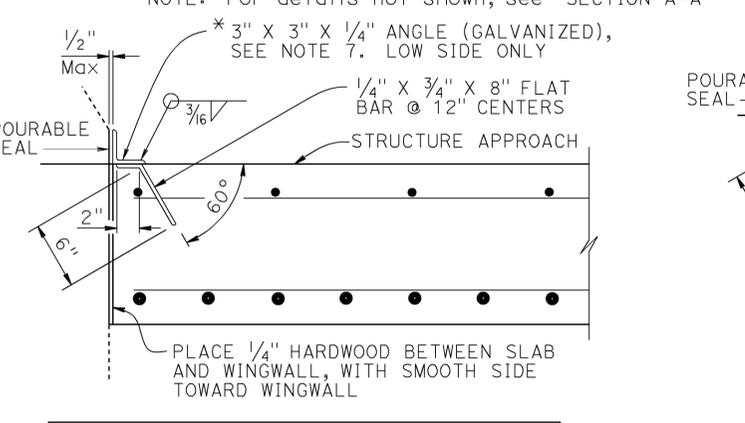
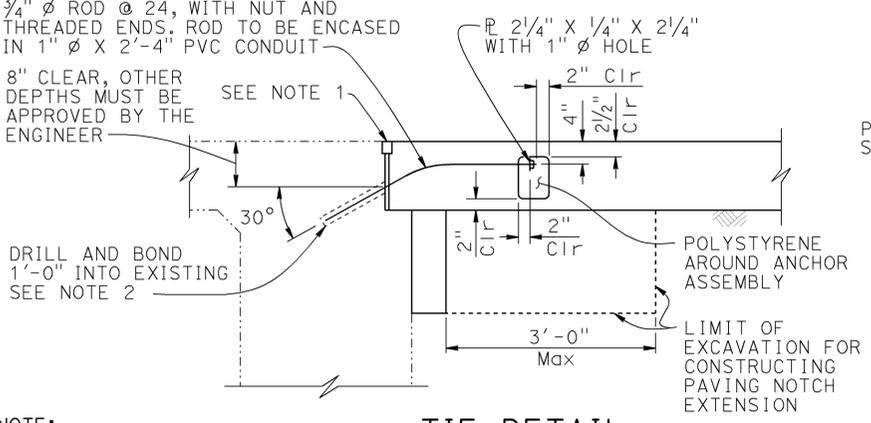
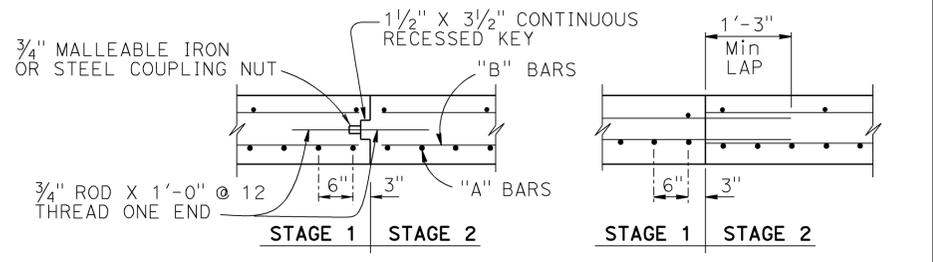
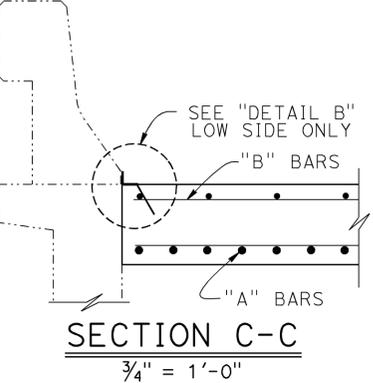
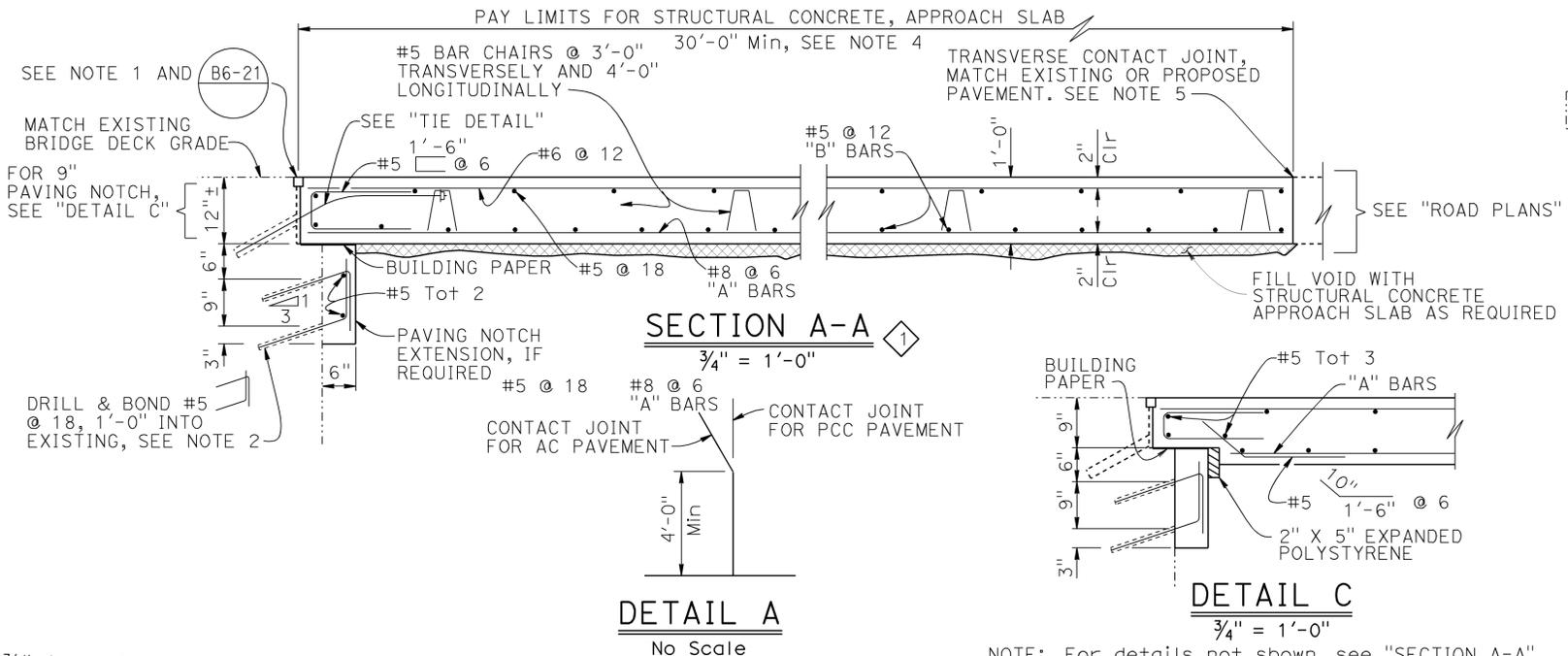
1-13-14
 PLANS APPROVAL DATE

No. C56706
 Exp. 06/30/15
 CIVIL

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



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

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

REVISED STANDARD DRAWING

FILE NO. **xs3-150**

APPROVAL DATE July 2011

REVISOR

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. Various

POST MILE Varies

SPECIAL DETAILS

ROUTE 605 BRIDGES

STRUCTURE APPROACH TYPE R(30D)