

INDEX OF PLANS

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STRUCTURE PLANS

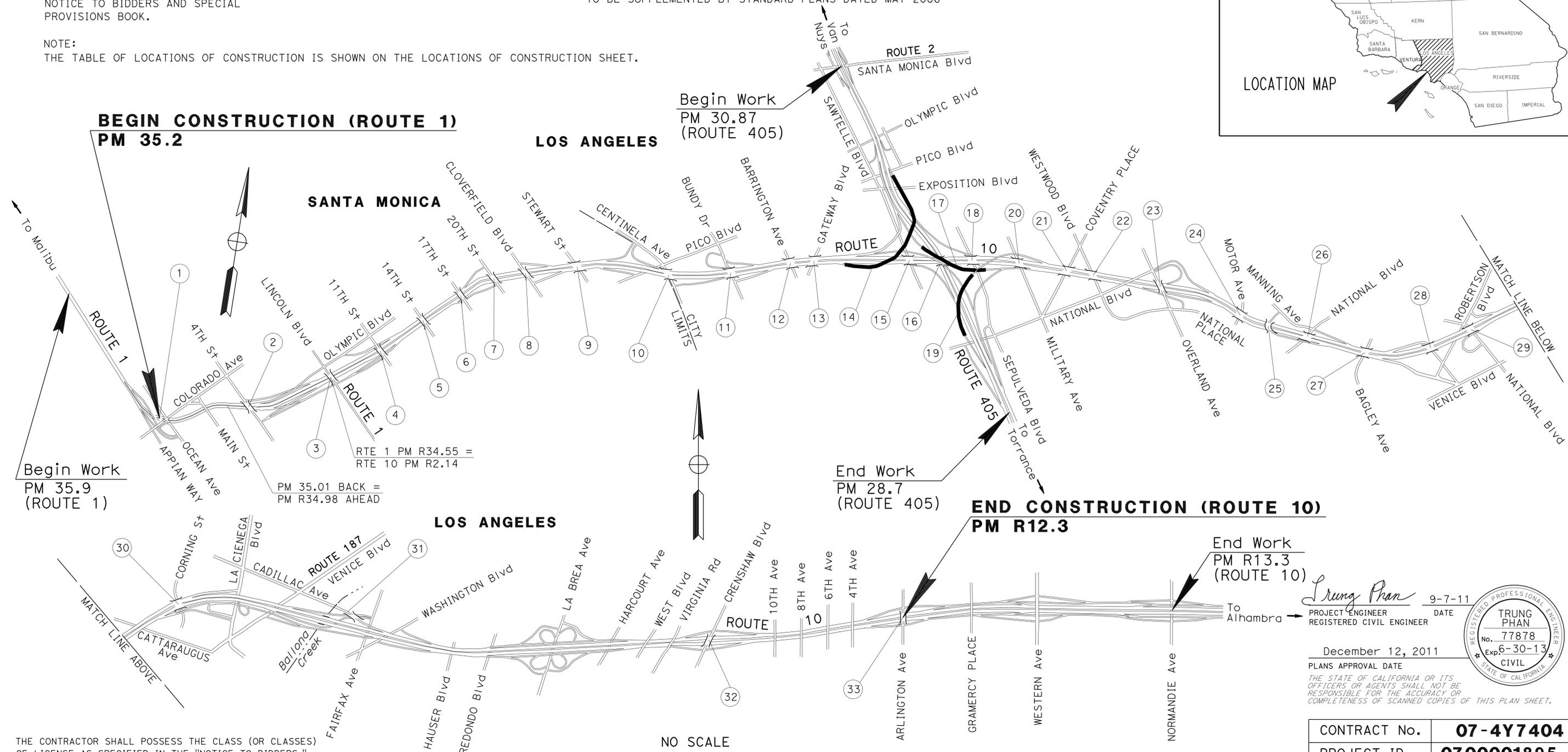
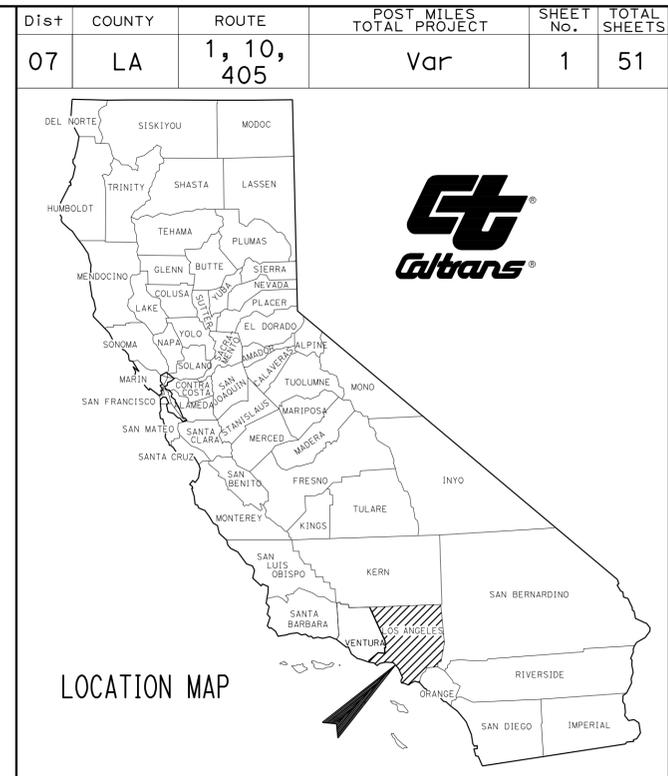
25-51	ROUTE 10 BRIDGES
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

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

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

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

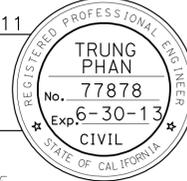


PROJECT MANAGER  
**CHRISTIAN SAM**  
  
DESIGN ENGINEER  
**PAUL CRISPI**

*Trung Phan* 9-7-11  
PROJECT ENGINEER  
REGISTERED CIVIL ENGINEER  
DATE

December 12, 2011  
PLANS APPROVAL DATE

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



CONTRACT No.	<b>07-4Y7404</b>
PROJECT ID	<b>0700001895</b>

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

TRUNG PHAN  
 PAUL CRISPI

FUNCTIONAL SUPERVISOR  
 PAUL CRISPI

REVISOR  
 TRUNG PHAN  
 DATE  
 REVISION

REVISOR  
 PAUL CRISPI  
 DATE  
 REVISION

BORDER LAST REVISED 7/1/2010

USERNAME => s112049  
 DGN FILE => 74y740ba001.dgn

RELATIVE BORDER SCALE IS IN INCHES



UNIT 1965

PROJECT NUMBER & PHASE

07000018951

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	2	51

*Trung Phan*  
 REGISTERED CIVIL ENGINEER DATE 9-7-11  
 12-12-11  
 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.

LOCATION No.	ROUTE	PM	BRIDGE No.	BRIDGE NAME
1	1	35.17	53-0008	MCCLURE TUNNEL
2	1	R34.89	53-1592	FOURTH St OC
3	1	R34.55	53-1594	ROUTE 1/10 SEPARATION
4	10	R2.38	53-1595	11TH St OC
5	10	R2.61	53-1596	14TH St OC
6	10	R2.84	53-1597	17TH St OC
7	10	R3.07	53-1598	20TH St OC
8	10	R3.34	53-1599	CLOVERFEILD Blvd OC
9	10	R3.71	53-1600	STEWART St UC
10	10	R4.24	53-1603	CENTINELA - PICO UC
11	10	R4.51	53-1604	BUNDY Dr UC
12	10	R4.82	53-1605	BARRINGTON Ave UC
13	10	R4.89	53-1620	GATEWAY Blvd UC
14	10	R5.28	53-1627G	E10-N405 CONNECTOR SEPARATION
15	10	R5.34	53-0939	SAWTELLE Blvd UC
16	10	R5.43	53-1628	ROUTE 10/405 SEPARATION
17	405	29.62	53-1629F	S405 - E10 CONNECTOR OC
18	10	R5.56	53-1623	SEPULVEDA Blvd UC
19	10	R5.65	53-1637F	W10- S405 CONNECTOR OC
20	10	R5.76	53-1640	MILITARY Ave UC
21	10	R5.99	53-1634	COVENTRY PLACE UC
22	10	R6.12	53-1617	WESTWOOD Blvd UC
23	10	R6.40	53-1616	OVERLAND Ave OC
24	10	R6.74	53-1552	MOTOR Ave UC
25	10	R7.08	53-1553S	MANNING Ave ON RAMP OC
26	10	R7.21	53-1554	NATIONAL Blvd UC
27	10	R7.58	53-1555	BAGLEY Ave UC
28	10	R7.83	53-1556	ROBERTSON Blvd ON RAMP UC
29	10	R7.92	53-1557	ROBERTSON AND NATIONAL UC
30	10	R8.65	53-1608	CORNING St UC
31	10	R9.22	53-1485F	CADILLAC RAMP SEPARATION
32	10	R11.39	53-1571	CRENSHAW Blvd OC
33	10	R12.32	53-1568	ARLINGTON Ave OC

# LOCATIONS OF CONSTRUCTION

## LC-1

LAST REVISION DATE PLOTTED => 30-NOV-2011  
 11-28-11 TIME PLOTTED => 12:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	3	51

*Trung Phan*  
 REGISTERED CIVIL ENGINEER DATE 9-7-11  
 12-12-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**TRUNG PHAN**  
 No. 77878  
 Exp. 6-30-13  
 CIVIL  
 STATE OF CALIFORNIA

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

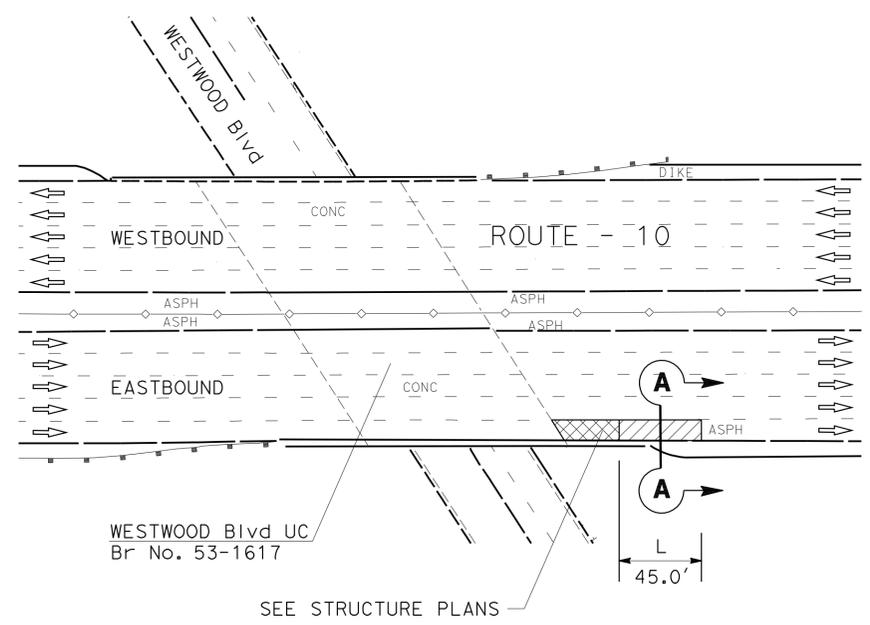
**NOTES:**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING DRAINAGE INLETS HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

**LEGEND:**

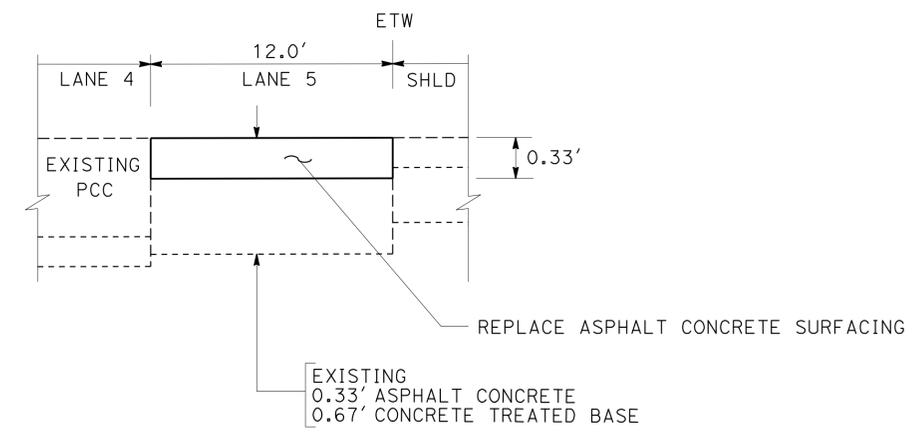
-  STRUCTURAL CONCRETE, APPROACH SLAB TYPE R(30D). SEE STRUCTURE PLANS, GENERAL PLAN No. 10
-  REPLACE ASPHALT CONCRETE SURFACING
-  DIRECTION OF TRAVEL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR PAUL CRISPI  
 CALCULATED/DESIGNED BY CHECKED BY  
 TRUNG PHAN PAUL CRISPI  
 REVISED BY DATE  
 TRUNG PHAN PAUL CRISPI



**REPLACE ASPHALT CONCRETE SURFACING**

LOCATION	LANE No.	DIMENSIONS W x L	DEPTH	VOLUME (CY)
EB PM R6.12	5	12' x 45'	0.33'	6.6



SECTION A-A

**REPLACE ASPHALT CONCRETE SURFACING  
LOCATION 22**

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	4	51

*Trung Phan*  
 REGISTERED CIVIL ENGINEER DATE 9-7-11  
 12-12-11  
 PLANS APPROVAL DATE

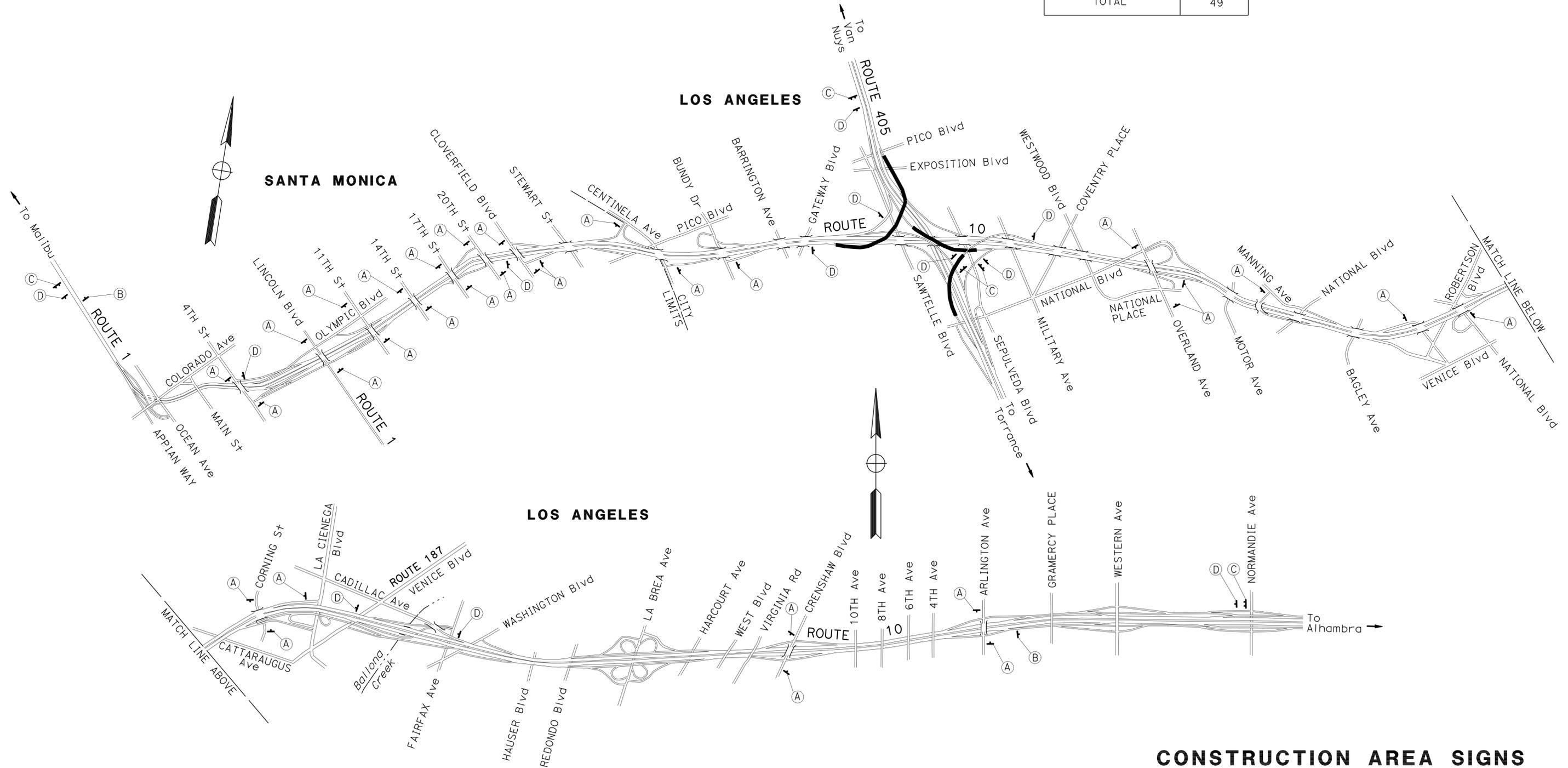
REGISTERED PROFESSIONAL ENGINEER  
 TRUNG PHAN  
 No. 77878  
 Exp. 8-30-13  
 CIVIL  
 STATE OF CALIFORNIA

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

**NOTE:**

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NUMBER	SIGN CODE	SIGN MESSAGE	PANEL SIZE (in)	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
(A)	W20-1	ROAD WORK AHEAD	36 x 36	1-4" x 4"	31
(B)	G20-2	END ROAD WORK	48 x 24	1-4" x 6"	2
(C)	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	144 x 60	2-6" x 6"	5
(D)	W20-1	ROAD WORK AHEAD	48 x 48	1-6" x 6"	11
TOTAL					49



**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGNS WORK ONLY.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	TRUNG PHAN	REVISOR
<b>Caltrans</b> MAINTENANCE ENGINEERING	CHECKED BY	PAUL CRISPI	DATE
	DESIGNED BY	PAUL CRISPI	DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	5	51

11/9/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE

JOCELYN C. CHIANG  
 No. 62742  
 Exp. 6-30-12  
 CIVIL

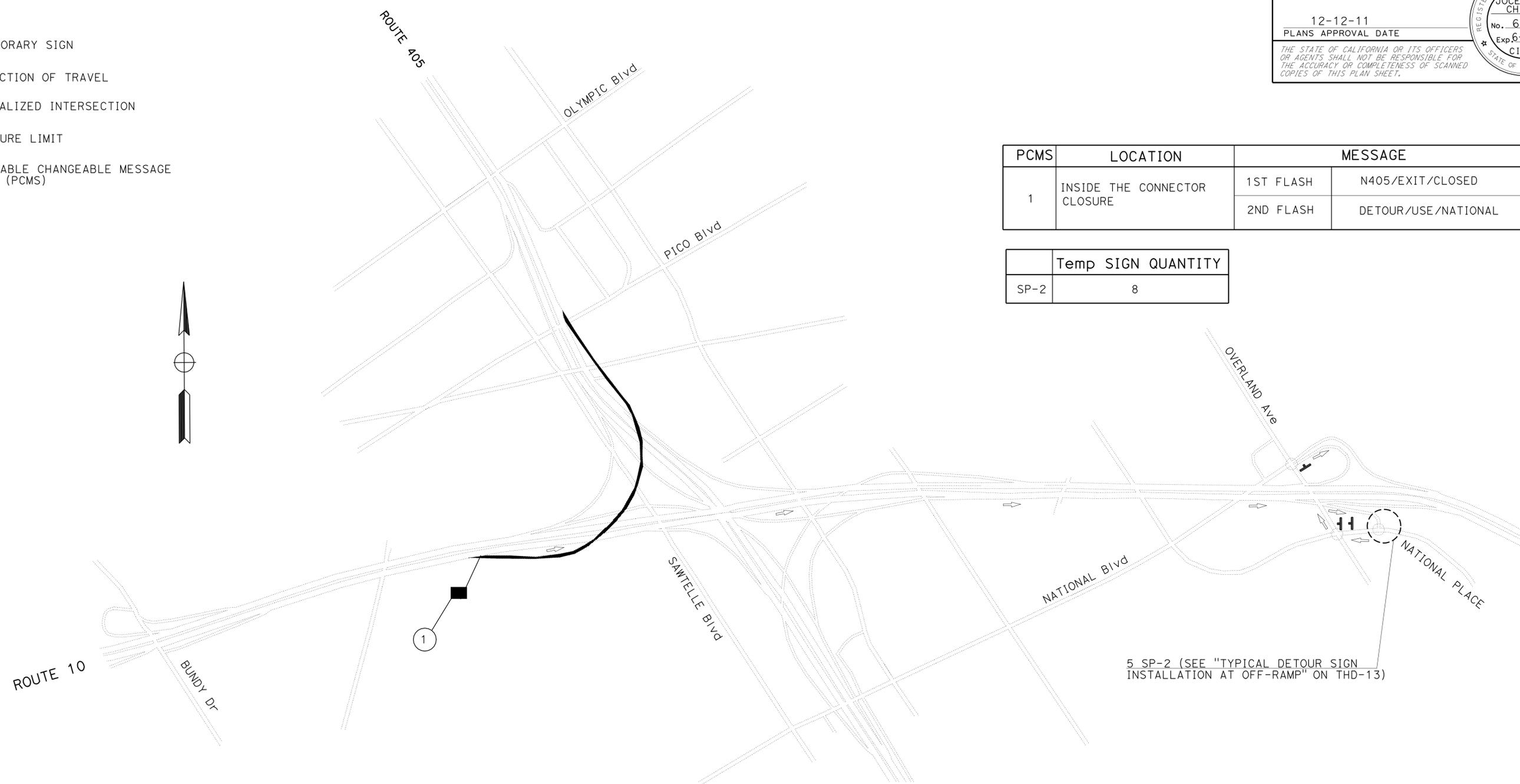
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**LEGENDS**

-  TEMPORARY SIGN
-  DIRECTION OF TRAVEL
-  SIGNALIZED INTERSECTION
-  CLOSURE LIMIT
-  PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTM

FUNCTIONAL SUPERVISOR: ALBERT K YU  
 CHECKED BY: ALBERT K YU  
 CALCULATED/DESIGNED BY: ALBERT K YU  
 REVISOR: ALBERT K YU  
 DATE REVISOR: JOCELYN C CHIANG



PCMS	LOCATION	MESSAGE	
1	INSIDE THE CONNECTOR CLOSURE	1ST FLASH	N405/EXIT/CLOSED
		2ND FLASH	DETOUR/USE/NATIONAL

	Temp SIGN QUANTITY
SP-2	8

5 SP-2 (SEE "TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP" ON THD-13)

**NOTES:**

1. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SEE THD-9 FOR SIGN SP-2 DETAILS.
3. TEMPORARY SIGNS SHALL BE REMOVED AT THE END OF EACH CLOSURE.

APPROVED FOR TRAFFIC HANDLING ONLY.

**TRAFFIC HANDLING DETAILS**  
**CONNECTOR DETOUR PLAN**  
**FOR WORK SHIFT CLOSURES**  
**EB Rte 10 TO NB Rte 405**

NO SCALE

**THD-1**

LAST REVISION DATE PLOTTED => 30-NOV-2011 11-15-11 TIME PLOTTED => 12:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	6	51

REGISTERED CIVIL ENGINEER DATE 11/9/11  
 JOCELYN C CHIANG  
 No. 62742  
 Exp. 6-30-12  
 CIVIL  
 STATE OF CALIFORNIA

12-12-11  
 PLANS APPROVAL DATE

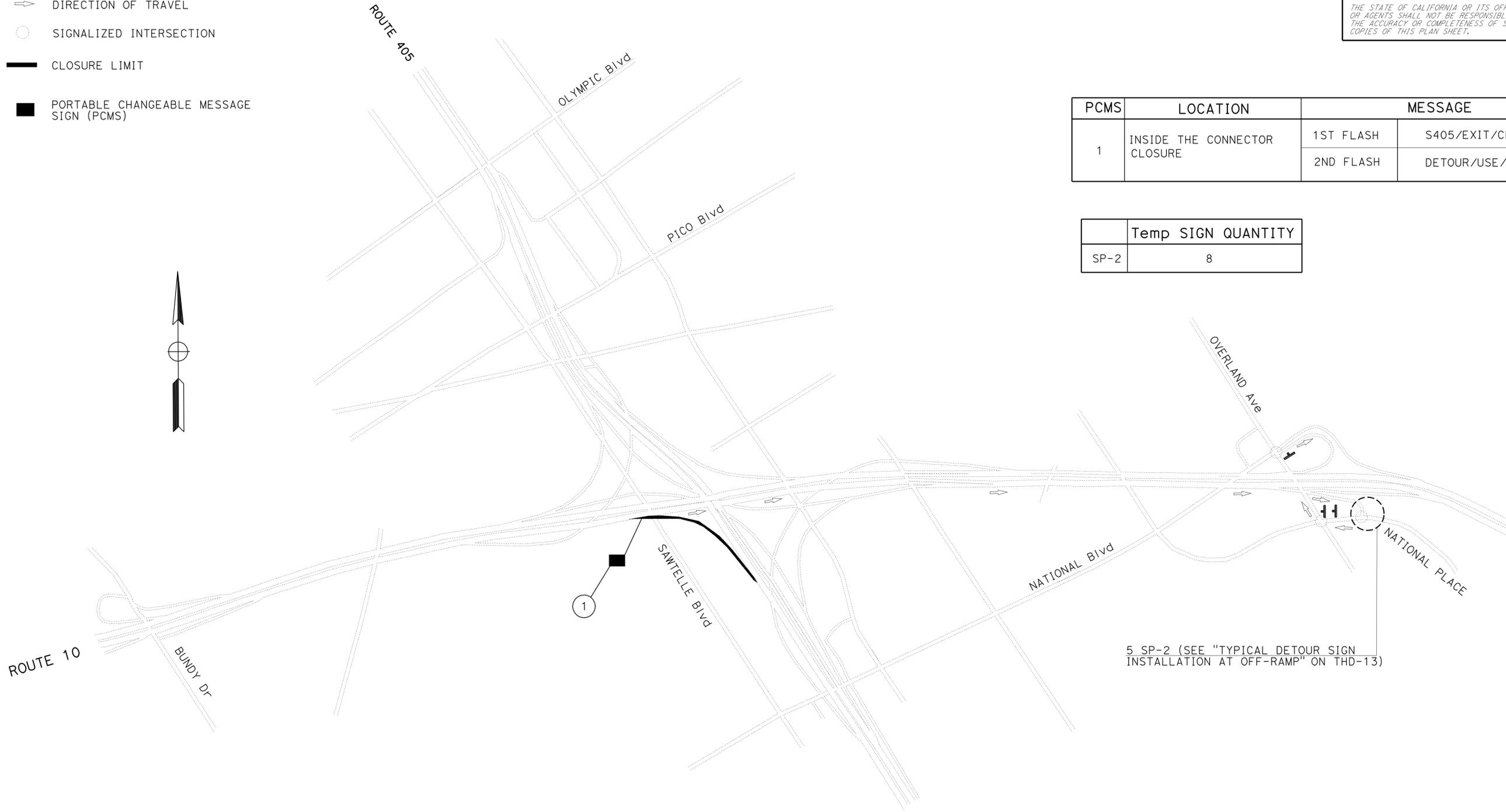
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**LEGENDS**

-  TEMPORARY SIGN
-  DIRECTION OF TRAVEL
-  SIGNALIZED INTERSECTION
-  CLOSURE LIMIT
-  PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

PCMS	LOCATION	MESSAGE	
1	INSIDE THE CONNECTOR CLOSURE	1ST FLASH	S405/EXIT/CLOSED
		2ND FLASH	DETOUR/USE/NATIONAL

	Temp SIGN QUANTITY
SP-2	8



5 SP-2 (SEE "TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP" ON THD-13)

**NOTES:**

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2. SEE THD-9 FOR SIGN SP-2 DETAILS.
3. TEMPORARY SIGNS SHALL BE REMOVED AT THE END OF EACH CLOSURE.

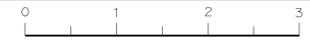
APPROVED FOR TRAFFIC HANDLING ONLY.

**TRAFFIC HANDLING DETAILS  
CONNECTOR DETOUR PLAN  
FOR WORK SHIFT CLOSURES  
EB Rte 10 TO SB Rte 405**

NO SCALE

**THD-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTM  
 FUNCTIONAL SUPERVISOR: ALBERT K YU  
 CHECKED BY: ALBERT K YU  
 CALCULATED/DESIGNED BY: ALBERT K YU  
 REVISOR: ALBERT K YU  
 DATE REVISED: 01/06/2010



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	7	51

11/9/11  
REGISTERED CIVIL ENGINEER DATE

12-12-11  
PLANS APPROVAL DATE

JOCELYN C. CHIANG  
No. 62742  
Exp. 6-30-12  
CIVIL

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** DTM

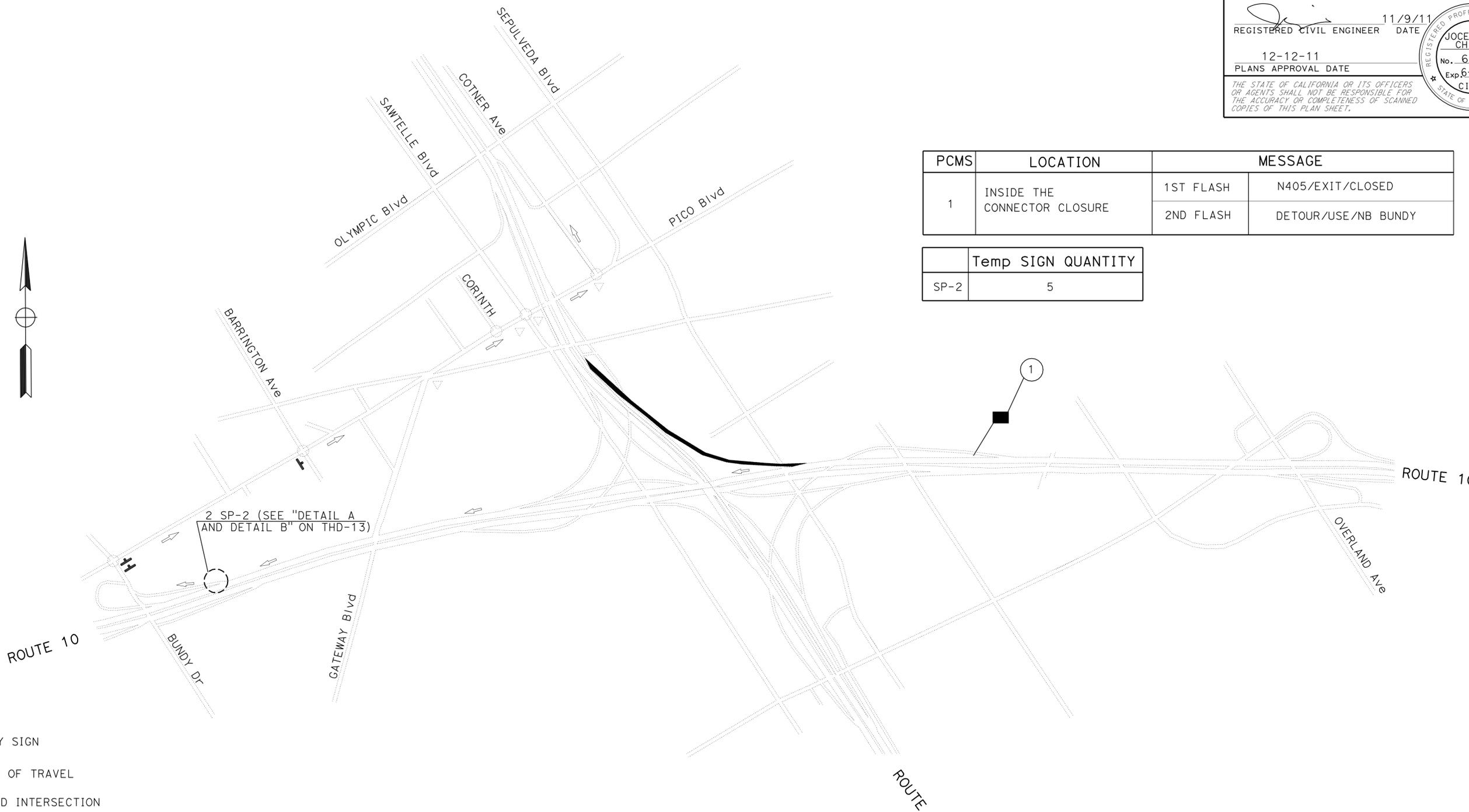
REVISOR  
DATE

ALBERT K YU  
JOCELYN C CHIANG

CALCULATED-DESIGNED BY  
CHECKED BY

FUNCTIONAL SUPERVISOR  
ALBERT K YU

DATE  
7/2/2010



PCMS	LOCATION	MESSAGE	
1	INSIDE THE CONNECTOR CLOSURE	1ST FLASH	N405/EXIT/CLOSED
		2ND FLASH	DETOUR/USE/NB BUNDY

	Temp SIGN QUANTITY
SP-2	5

**LEGENDS**

- TEMPORARY SIGN
- DIRECTION OF TRAVEL
- SIGNALIZED INTERSECTION
- CLOSURE LIMIT
- EXISTING Fwy GUIDE SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

**NOTES:**

1. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SEE THD-9 FOR SIGN SP-2 DETAILS.
3. TEMPORARY SIGNS SHALL BE REMOVED AT THE END OF EACH CLOSURE.

APPROVED FOR TRAFFIC HANDLING ONLY.

**TRAFFIC HANDLING DETAILS  
CONNECTOR DETOUR PLAN  
FOR WORK SHIFT CLOSURES  
WB Rte 10 TO NB Rte 405**

NO SCALE **THD-3**

LAST REVISION DATE PLOTTED => 30-NOV-2011 11-15-11 TIME PLOTTED => 12:10

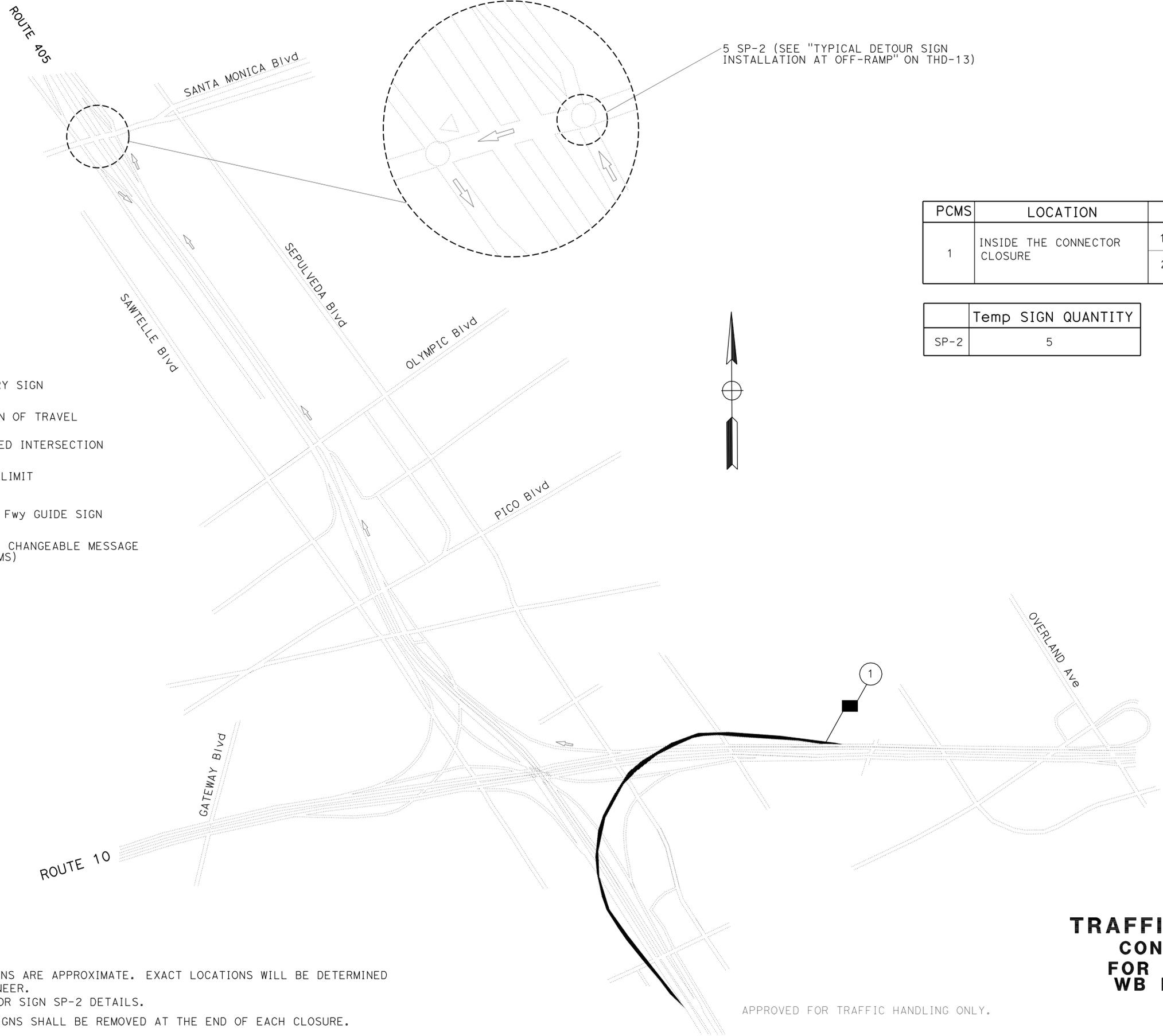
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	8	51

11/9/11  
 REGISTERED CIVIL ENGINEER DATE

12-12-11  
 PLANS APPROVAL DATE

JOCELYN C. CHIANG  
 No. 62742  
 Exp. 6-30-12  
 CIVIL

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PCMS	LOCATION	MESSAGE	
1	INSIDE THE CONNECTOR CLOSURE	1ST FLASH	S405/EXIT/CLOSED
		2ND FLASH	USE N405 /TO SANTA /MONICA

	Temp SIGN QUANTITY
SP-2	5

**LEGENDS**

- TEMPORARY SIGN
- DIRECTION OF TRAVEL
- SIGNALIZED INTERSECTION
- CLOSURE LIMIT
- EXISTING Fwy GUIDE SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

**NOTES:**

1. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SEE THD-9 FOR SIGN SP-2 DETAILS.
3. TEMPORARY SIGNS SHALL BE REMOVED AT THE END OF EACH CLOSURE.

APPROVED FOR TRAFFIC HANDLING ONLY.

**TRAFFIC HANDLING DETAILS  
 CONNECTOR DETOUR PLAN  
 FOR WORK SHIFT CLOSURES  
 WB Rte 10 TO SB Rte 405**

NO SCALE

**THD-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans**

FUNCTIONAL SUPERVISOR: ALBERT K YU

DESIGNED BY: ALBERT K YU

CHECKED BY: JOCELYN C CHIANG

REVISOR: ALBERT K YU

DATE REVISED: 01/06/2010

LAST REVISION: DATE PLOTTED => 30-NOV-2011      TIME PLOTTED => 12:10

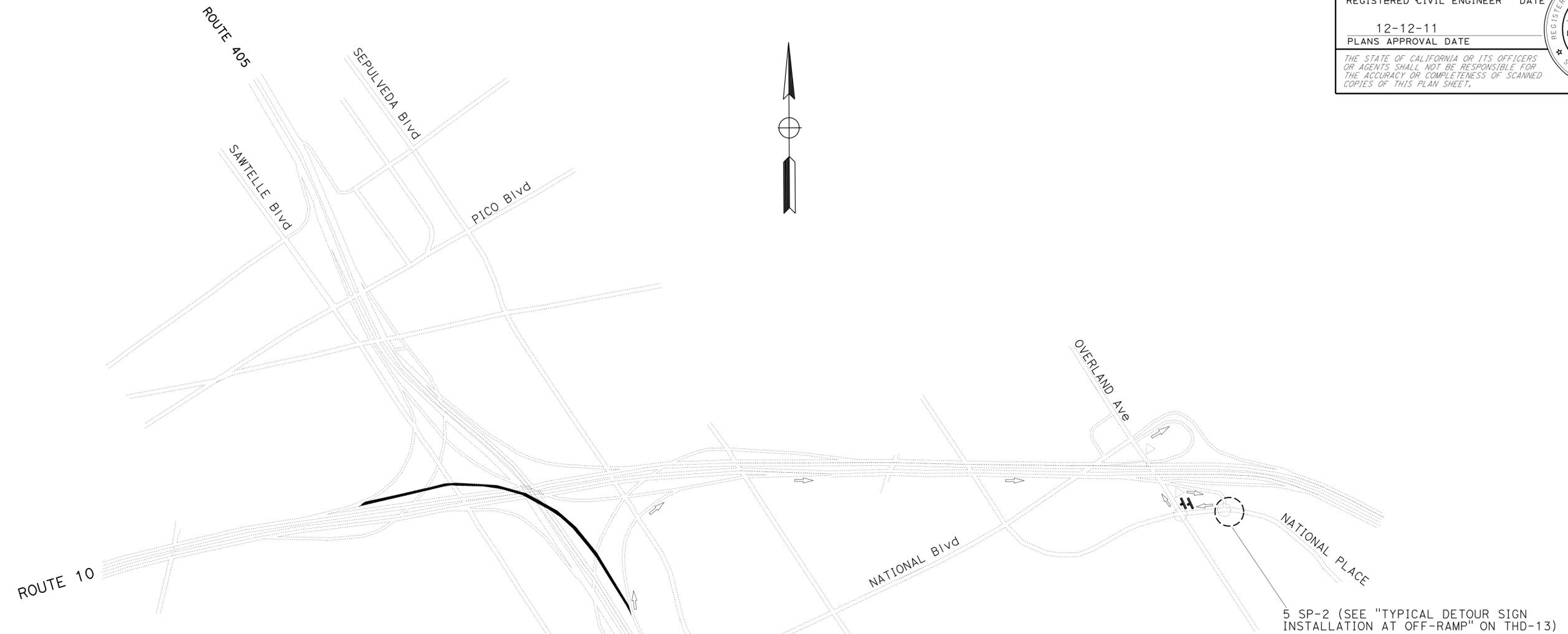
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	9	51

11/9/11  
REGISTERED CIVIL ENGINEER DATE

12-12-11  
PLANS APPROVAL DATE

JOCELYN C CHIANG  
No. 62742  
Exp. 6-30-12  
CIVIL

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**LEGENDS**

- ⊥ TEMPORARY SIGN
- ⇨ DIRECTION OF TRAVEL
- SIGNALIZED INTERSECTION
- CLOSURE LIMIT
- ▽ EXISTING Fwy GUIDE SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

**NOTES:**

1. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SEE THD-9 FOR SIGN SP-2 DETAILS.
3. PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE PLACED ON THE RIGHT SHOULDER.
4. TEMPORARY SIGNS SHALL BE REMOVED AT THE END OF EACH CLOSURE.

PCMS	LOCATION	MESSAGE	
1	BETWEEN WESTWOOD CHANNEL BRIDGE AND NATIONAL BLVD OFF-RAMP	1ST FLASH	WEST 10/EXIT/CLOSED
		2ND FLASH	DETOUR/E10 TO/OVERLAND

	Temp SIGN QUANTITY
SP-2	7

**TRAFFIC HANDLING DETAILS  
CONNECTOR DETOUR PLAN  
FOR WORK SHIFT CLOSURES  
NB Rte 405 TO WB Rte 10**

NO SCALE **THD-5**

APPROVED FOR TRAFFIC HANDLING ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
DTM  
FUNCTIONAL SUPERVISOR: ALBERT K YU  
DESIGNED BY: ALBERT K YU  
CHECKED BY: JOCELYN C CHIANG  
REVISOR: ALBERT K YU  
DATE REVISED: 01/06/2010

LAST REVISION: DATE PLOTTED => 30-NOV-2011    TIME PLOTTED => 12:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	10	51

11/9/11  
REGISTERED CIVIL ENGINEER DATE

12-12-11  
PLANS APPROVAL DATE

JOCELYN C. CHIANG  
No. 62742  
Exp. 6-30-12  
CIVIL

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**LEGENDS**

- TEMPORARY SIGN
- DIRECTION OF TRAVEL
- SIGNALIZED INTERSECTION
- CLOSURE LIMIT
- EXISTING Fwy GUIDE SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
DTM

REVISOR  
ALBERT K YU  
JOCELYN C CHIANG

FUNCTIONAL SUPERVISOR  
ALBERT K YU

DESIGNER  
ALBERT K YU

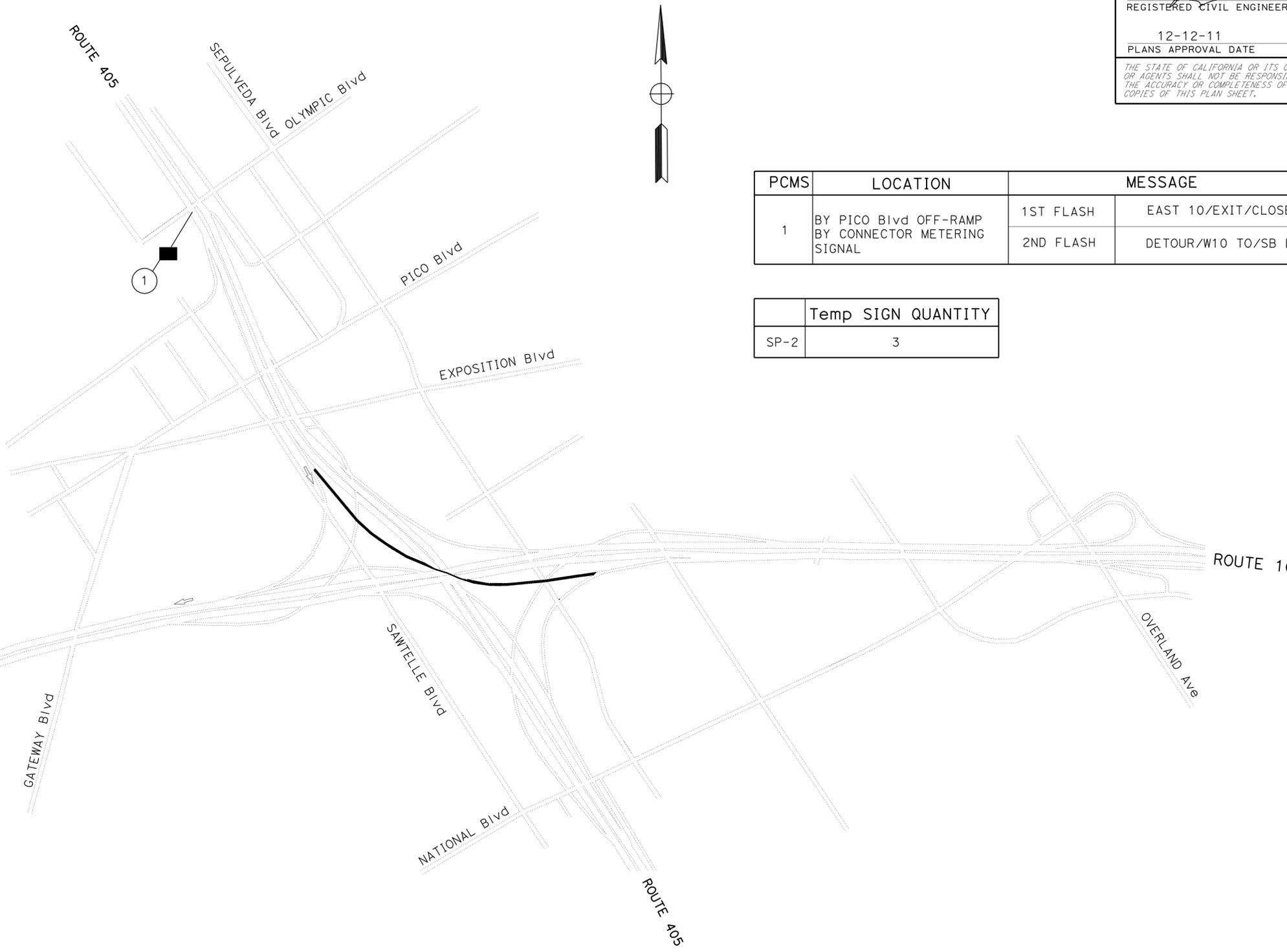
CHECKED BY

DATE REVISION

DATE REVISION

SP-2 (SEE "DETAIL A" ON TH-13 AND PLACE AT N BUNDY DR OFF-RAMP)

2 SP-2 (SEE "DETAIL A AND DETAIL B" ON THD-13)



PCMS	LOCATION	MESSAGE	
1	BY PICO Blvd OFF-RAMP BY CONNECTOR METERING SIGNAL	1ST FLASH	EAST 10/EXIT/CLOSED
		2ND FLASH	DETOUR/W10 TO/SB BUNDY

	Temp SIGN QUANTITY
SP-2	3

**NOTES:**

1. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SEE THD-9 FOR SIGN SP-2 DETAILS.
3. PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE PLACED ON THE RIGHT SHOULDER.
4. TEMPORARY SIGNS SHALL BE REMOVED AT THE END OF EACH CLOSURE.

APPROVED FOR TRAFFIC HANDLING ONLY.

**TRAFFIC HANDLING DETAILS  
CONNECTOR DETOUR PLAN  
FOR WORK SHIFT CLOSURES  
SB Rte 405 TO EB Rte 10**

NO SCALE

**THD-6**

LAST REVISION DATE PLOTTED => 30-NOV-2011  
11-15-11 TIME PLOTTED => 12:10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DTM

FUNCTIONAL SUPERVISOR: ALBERT K YU  
 CHECKED BY: ALBERT K YU  
 CALCULATED/DESIGNED BY: JOCELYN C CHIANG  
 REVISOR: ALBERT K YU  
 DATE REVISOR: JOCELYN C CHIANG

**LEGENDS**

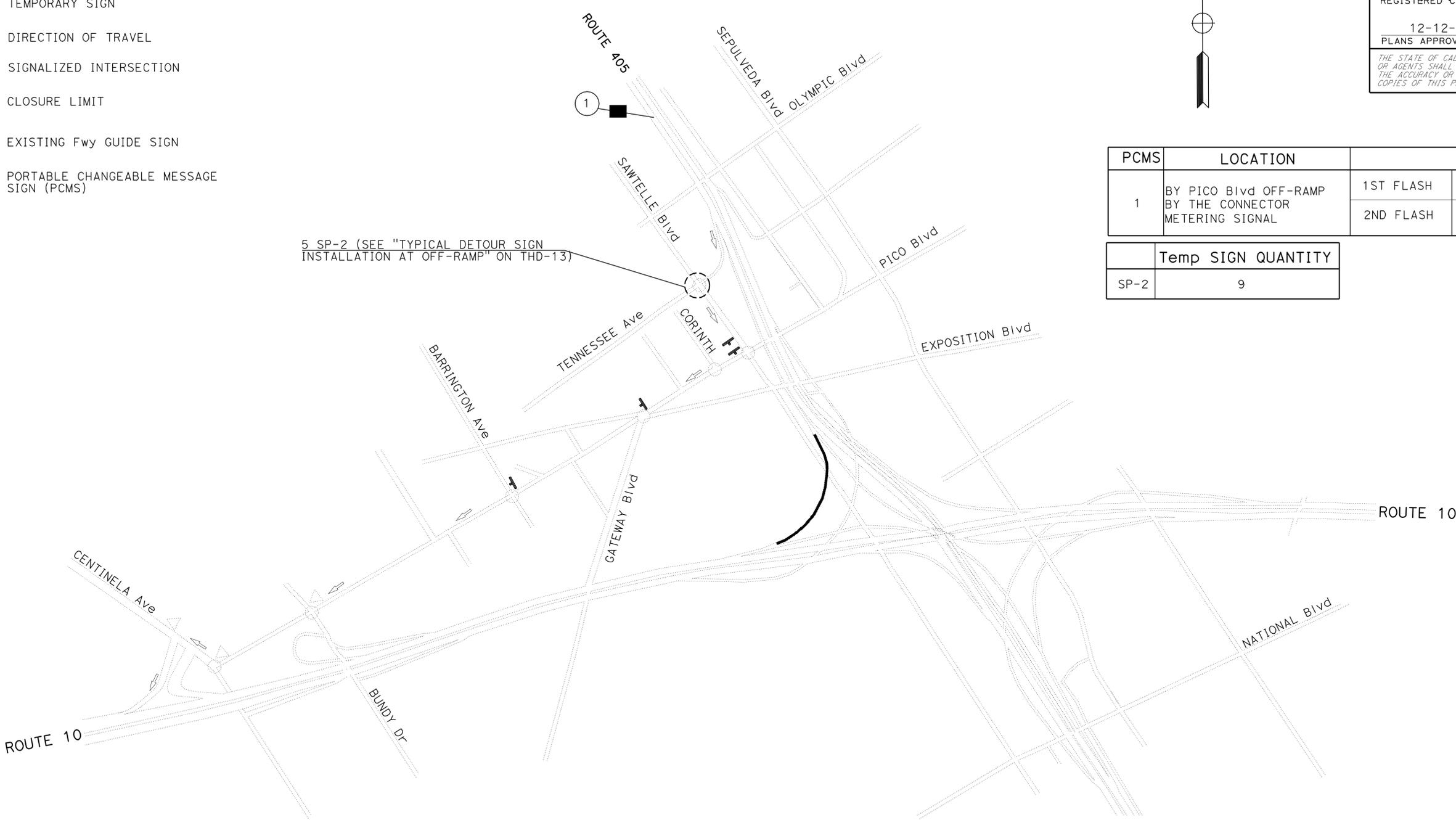
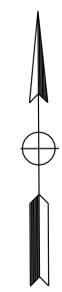
- TEMPORARY SIGN
- DIRECTION OF TRAVEL
- SIGNALIZED INTERSECTION
- CLOSURE LIMIT
- EXISTING Fwy GUIDE SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	11	51

11/9/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE

JOCELYN C CHIANG  
 No. 62742  
 Exp. 6-30-12  
 CIVIL

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5 SP-2 (SEE "TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP" ON THD-13)

PCMS	LOCATION	MESSAGE	
1	BY PICO Blvd OFF-RAMP BY THE CONNECTOR METERING SIGNAL	1ST FLASH	WEST 10/EXIT/CLOSED
		2ND FLASH	DETOUR/USE/OLYMPIC

Temp SIGN QUANTITY	
SP-2	9

**NOTES:**

1. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SEE THD-9 FOR SIGN SP-2 DETAILS.
3. PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE PLACED ON THE RIGHT SHOULDER.
4. TEMPORARY SIGNS SHALL BE REMOVED AT THE END OF EACH CLOSURE.

APPROVED FOR TRAFFIC HANDLING ONLY.

**TRAFFIC HANDLING DETAILS  
 CONNECTOR DETOUR PLAN  
 FOR WORK SHIFT CLOSURES  
 SB Rte 405 TO WB Rte 10**

NO SCALE **THD-7**

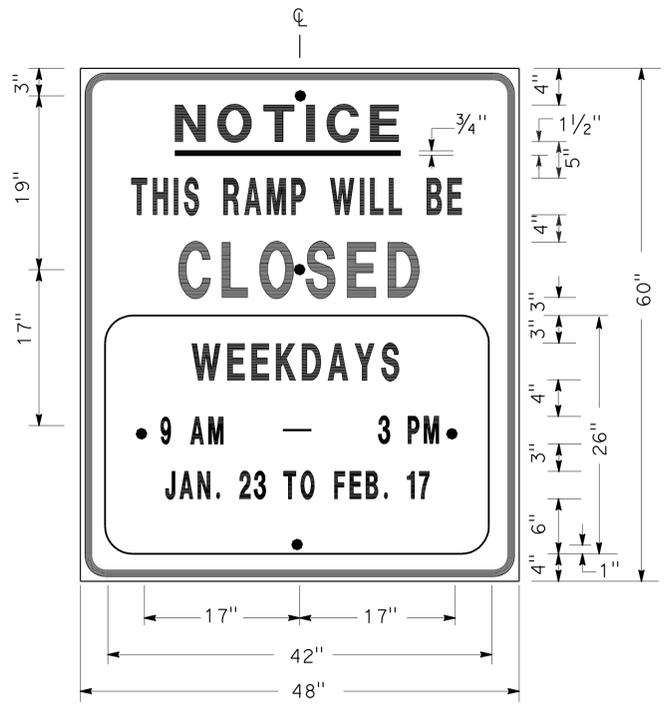
LAST REVISION DATE PLOTTED => 30-NOV-2011 11-15-11 TIME PLOTTED => 12:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	12	51

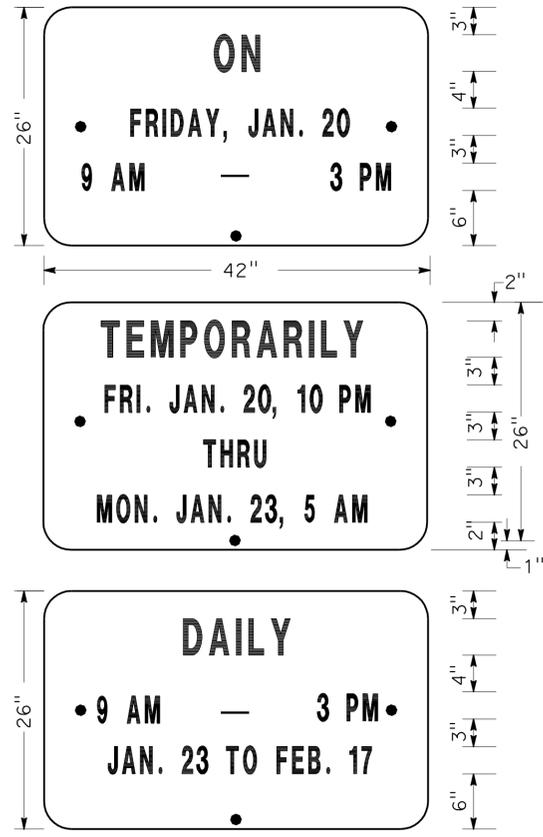
REGISTERED CIVIL ENGINEER DATE: 8/15/11  
 JOCELYN C CHIANG  
 No. 62742  
 Exp. 6-30-12  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE: 12-12-11

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SIGN SP-1



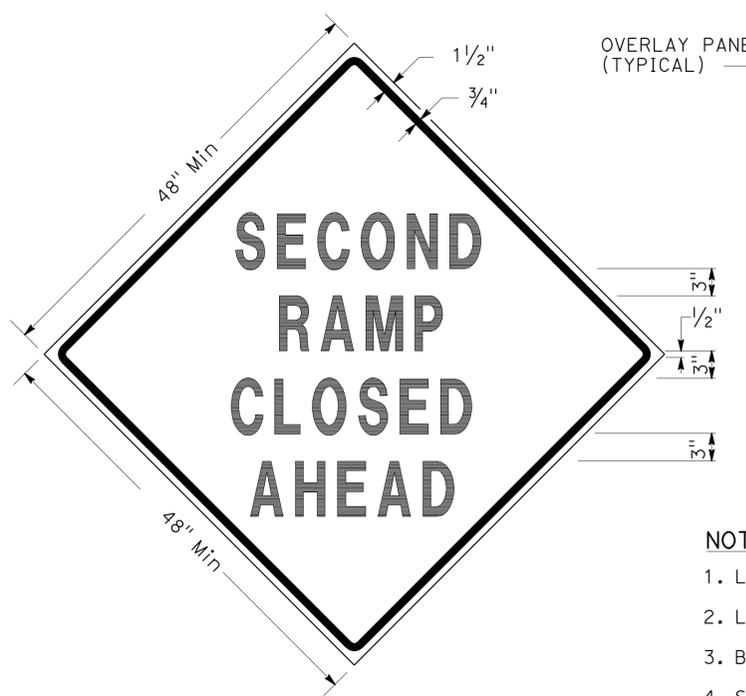
ALTERNATE OVERLAY PANELS (TYPICAL)

- NOTES:**(SIGN SP-1)
- SIGNS SHALL HAVE ORANGE RETROREFLECTORIZED BACKGROUND WITH BLACK BORDER AND LETTERS.
  - 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 6' ABOVE GROUND.

SIZE	BORDER	MARGIN	LETTER SIZE					CORNER RADIUS
	WIDTH	WIDTH	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

**SPECIAL SIGN FOR EXIT RAMP CLOSURES**

- NOTES:** (SIGNS SP-3 & SP-5)
- LETTERS - 6" SERIES D.
  - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
  - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
  - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.



SIGN SP-5



SIGN SP-4

- NOTES:** (SIGN SP-4)
- LETTERS - 6" SERIES C.
  - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED WHITE BACKGROUND.
  - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
  - SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH STANDARD PLAN 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

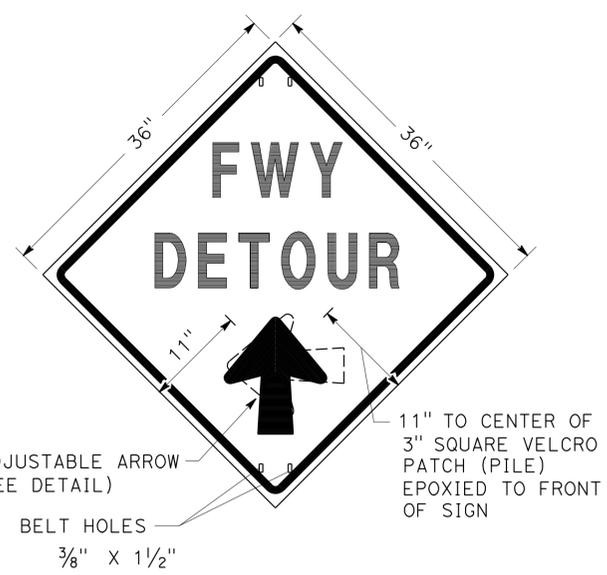
THD-8

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	13	51

8/15/11  
REGISTERED CIVIL ENGINEER DATE  
12-12-11  
PLANS APPROVAL DATE

JOCELYN C CHIANG  
No. 62742  
Exp. 6-30-12  
CIVIL  
STATE OF CALIFORNIA

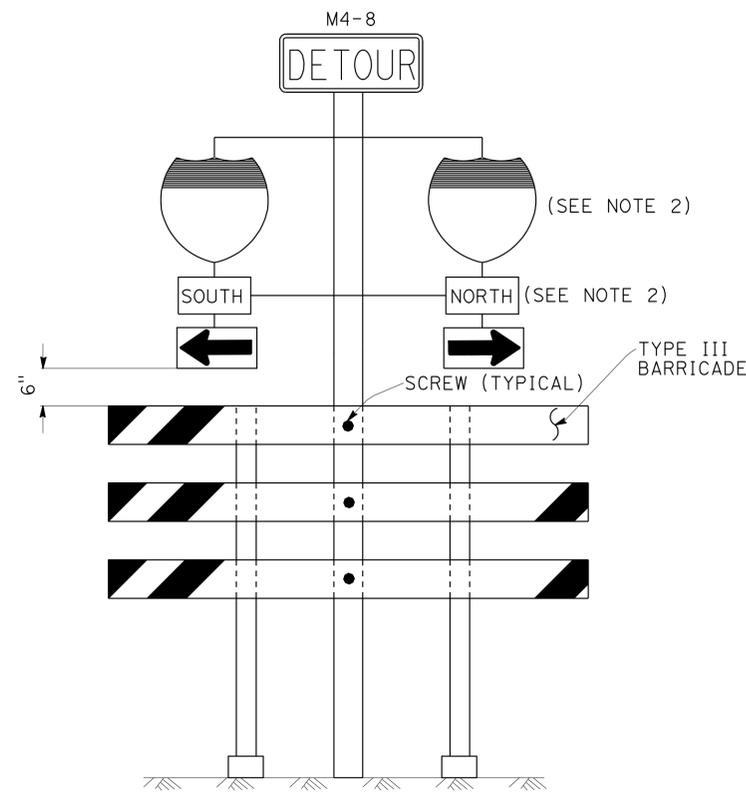
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



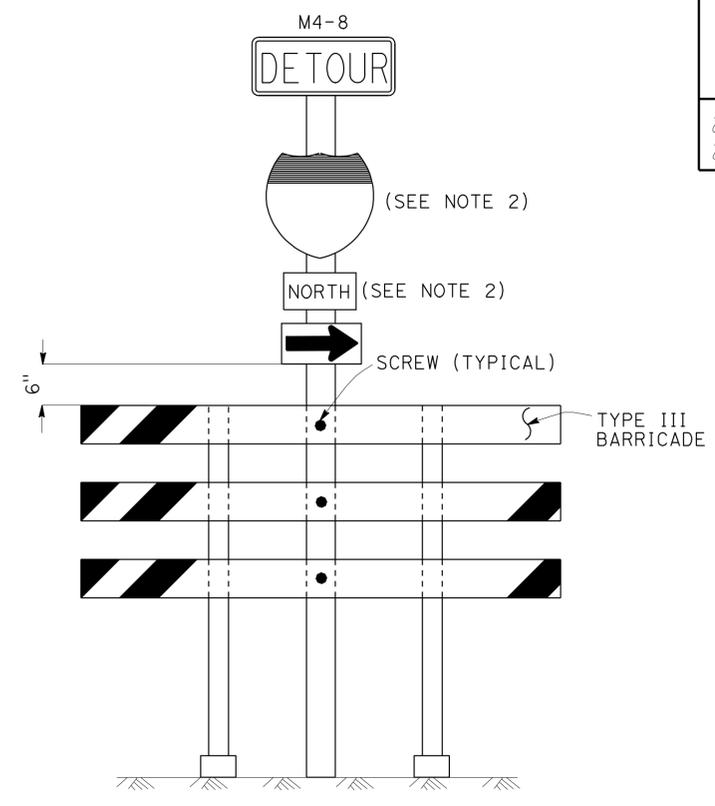
SIGN SP-2

- 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 6' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

**ABBREVIATION**  
(CA) CALIFORNIA CODE



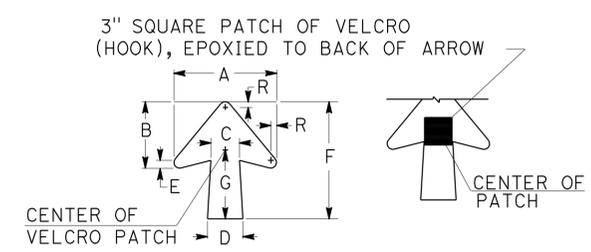
SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

- NOTES:** (SIGNS SP-6 & SP-7)
- IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
  - USE APPROPRIATE ROUTE SHIELD [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

DIMENSIONS							
A	B	C	D	E	F	G	R
11 1/4"	7 1/4"	3 1/8"	4"	7/8"	13"	7 1/2"	5/8"

SPECIAL PORTABLE FREEWAY DETOUR SIGN

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

SHEET 2 OF 2  
NO SCALE

THD-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
DTM  
ALBERT K YU  
JOCELYN C CHIANG  
7/10

LAST REVISION DATE PLOTTED => 30-NOV-2011  
11-15-11 TIME PLOTTED => 12:11



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	15	51

8/15/11  
REGISTERED CIVIL ENGINEER DATE

12-12-11  
PLANS APPROVAL DATE

JOCELYN C. CHIANG  
No. 62742  
Exp. 6-30-12  
CIVIL

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**NOTES:**

- WORDING DISPLAYED ON PCMS WILL BE APPROVED BY THE ENGINEER.
- EXACT LOCATIONS OF PCMS WILL BE DETERMINED BY THE ENGINEER.
- CHANGE PCMS MESSAGE AT THE BEGINNING OF CURE PERIOD TO REFLECT NUMBER OF CLOSED LANES.

**ABBREVIATIONS**

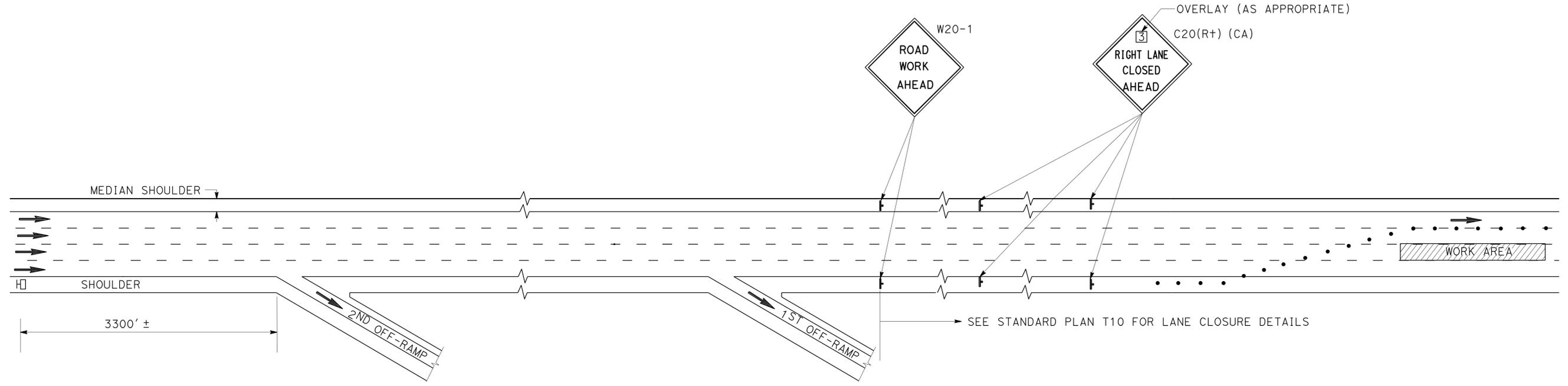
PCMS PORTABLE CHANGEABLE MESSAGE SIGN  
(CA) CALIFORNIA CODE

**LEGEND**

- CONE
- ⊥ PORTABLE SIGN
- ➔ DIRECTION OF TRAVEL
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- (CA) CALIFORNIA CODE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
DTM

FUNCTIONAL SUPERVISOR: ALBERT K YU  
CHECKED BY: ALBERT K YU  
CALCULATED/DESIGNED BY: ALBERT K YU  
REVISOR: JOCELYN C CHIANG  
DATE REVISED: 7/10



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

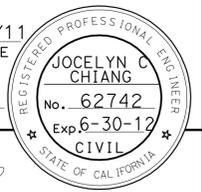
**WORDING FOR PORTABLE CHANGEABLE MESSAGE SIGN**

**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR CONCRETE PAVEMENT AND  
APPROACH SLAB REPLACEMENT  
NO SCALE**

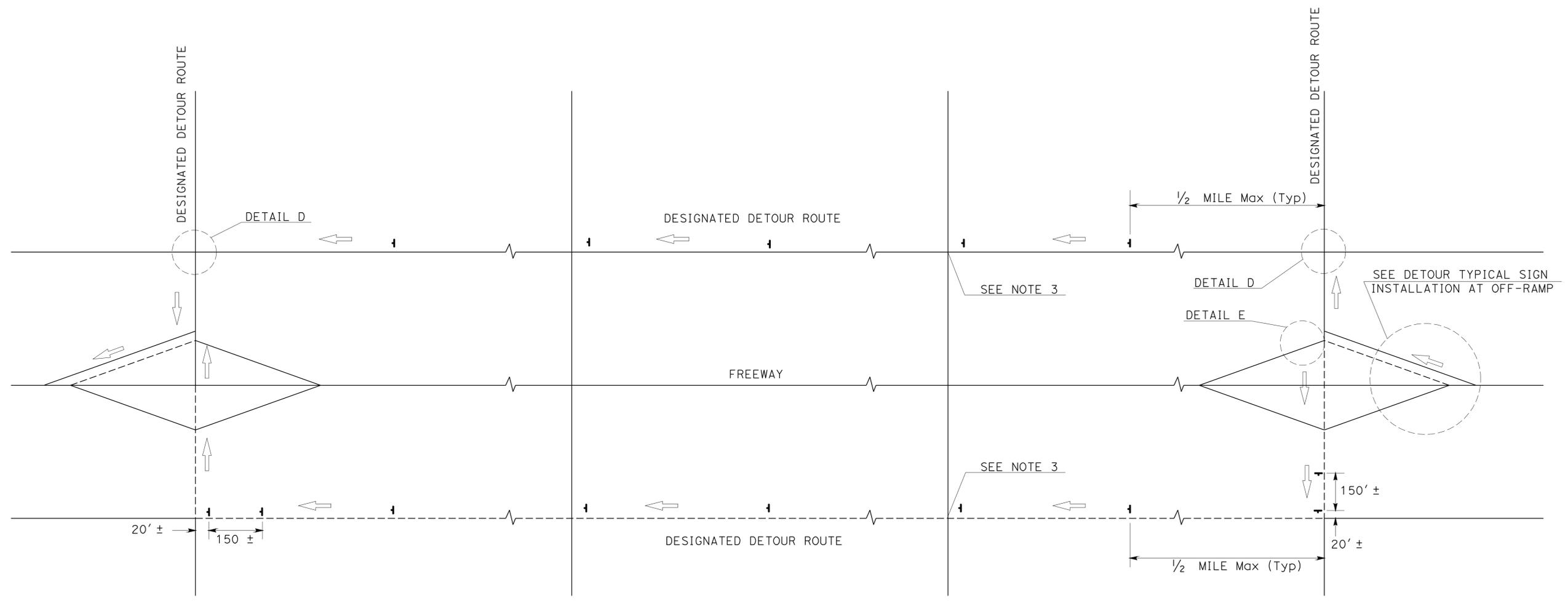
**THD-11**

LAST REVISION DATE PLOTTED => 30-NOV-2011 TIME PLOTTED => 12:11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	16	51
			8/15/11		
REGISTERED CIVIL ENGINEER			DATE		
			12-12-11		
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	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
DTM	ALBERT K YU	ALBERT K YU	JC	7/10
Caltrans	ALBERT K YU	JOCELYN C CHIANG	JOCELYN C CHIANG	7/10



**TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE**

- LEGEND**
- ┆ TEMPORARY SIGN (SP-2)
  - AND/OR — DESIGNATED DETOUR ROUTE
  - DIRECTION OF TRAVEL

- NOTES:**
1. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
  2. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
  3. SP-2 SIGNS SHALL BE POSTED AT SIGNALIZED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE OR 1/2 MILE MAXIMUM APART.

**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR DETOUR SIGN INSTALLATION  
ALONG DESIGNATED DETOUR ROUTE  
SHEET 1 OF 2  
NO SCALE**

**THD-12**

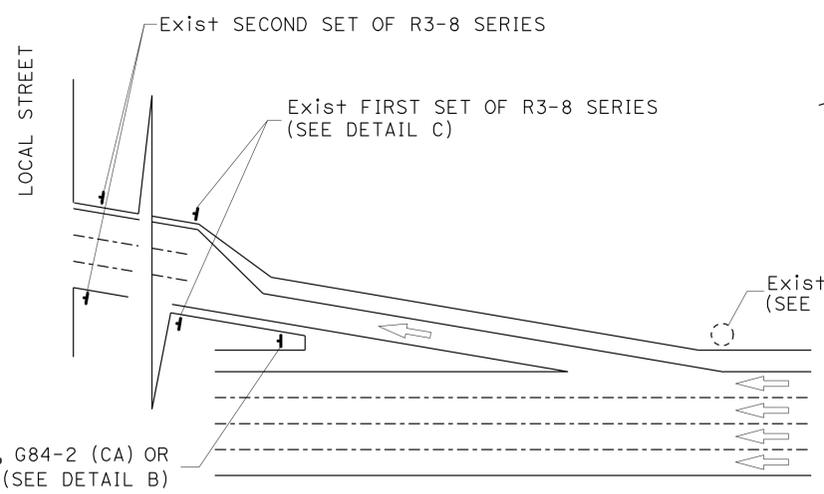
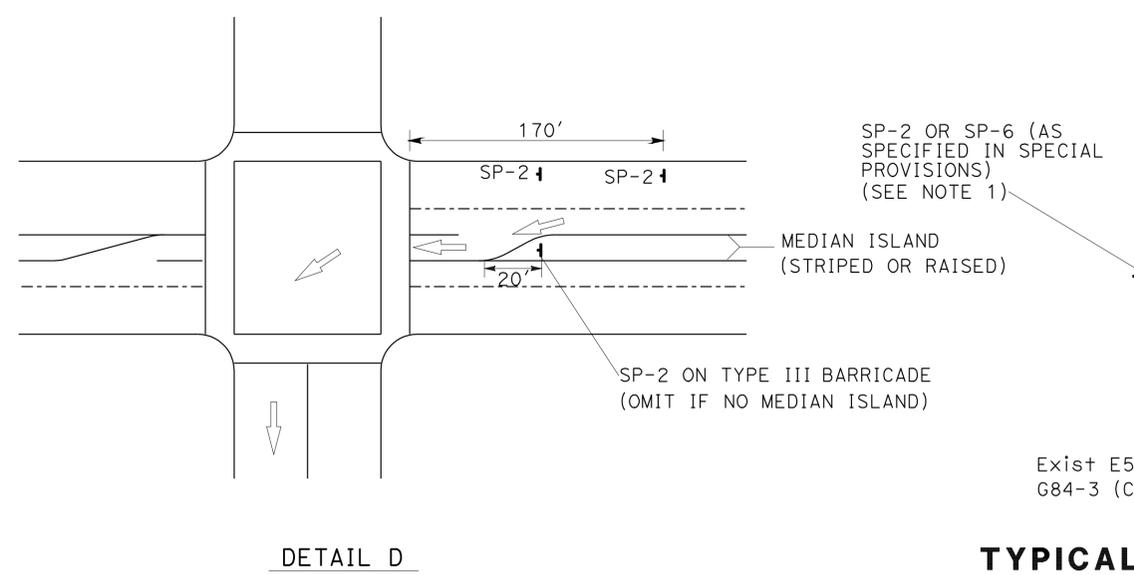
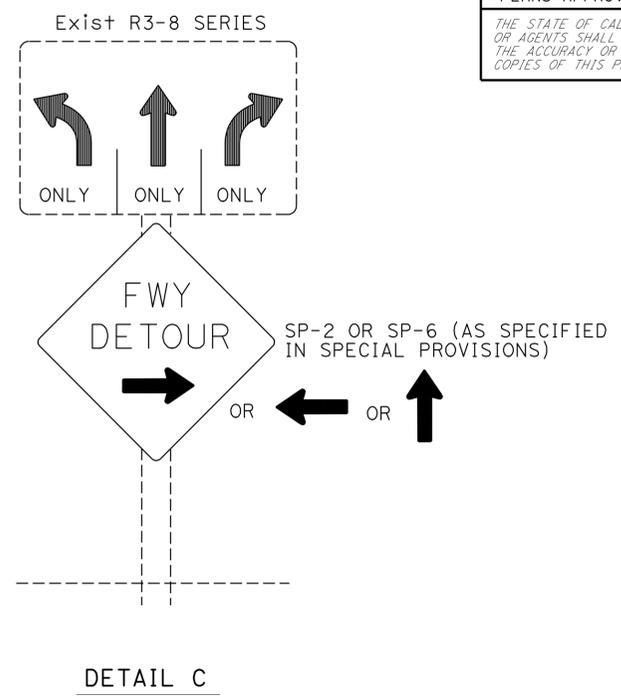
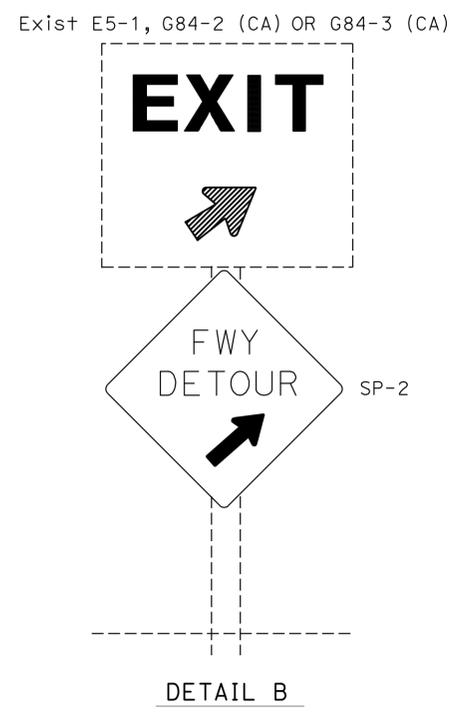
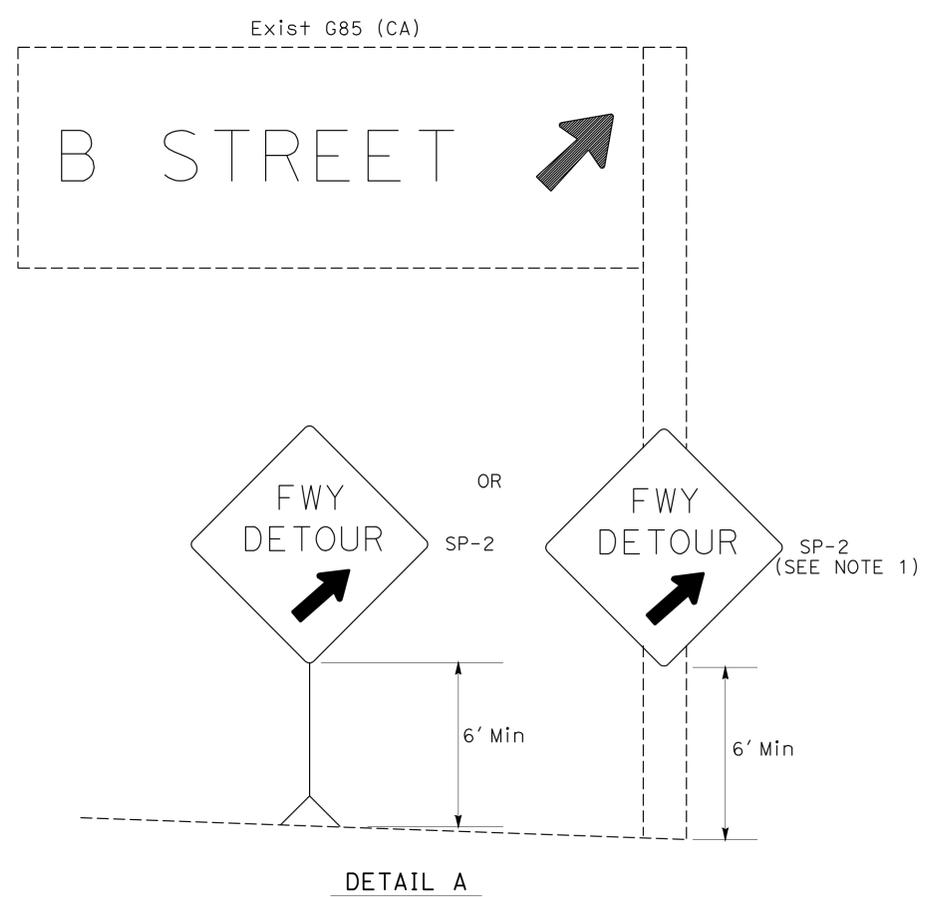
LAST REVISION DATE PLOTTED => 30-NOV-2011 11-15-11 TIME PLOTTED => 12:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	17	51

8/15/11  
REGISTERED CIVIL ENGINEER DATE  
12-12-11  
PLANS APPROVAL DATE

JOCELYN C. CHIANG  
No. 62742  
Exp. 6-30-12  
CIVIL

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**TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP**

- NOTES:**
1. TEMPORARY SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POSTS, OR SIGN POSTS.
  2. OMIT DETAIL A AND DETAIL B FOR FULL FREEWAY CLOSURES.
  3. SEE TRAFFIC HANDLING DETAILS PLAN-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS SHEET 2 OF 2 FOR SP-6.

**ABBREVIATIONS**  
(CA) CALIFORNIA CODE

- LEGENDS**
- TRAFFIC CONE
  - ↑ TEMPORARY SIGN
  - DIRECTION OF TRAVEL
  - EXISTING OVERHEAD SIGN

**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR DETOUR SIGN INSTALLATION  
ALONG DESIGNATED DETOUR ROUTE  
SHEET 2 OF 2  
NO SCALE**

**THD-13**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
DTM

ALBERT K YU  
JOCELYN C CHIANG

ALBERT K YU

ALBERT K YU  
JOCELYN C CHIANG



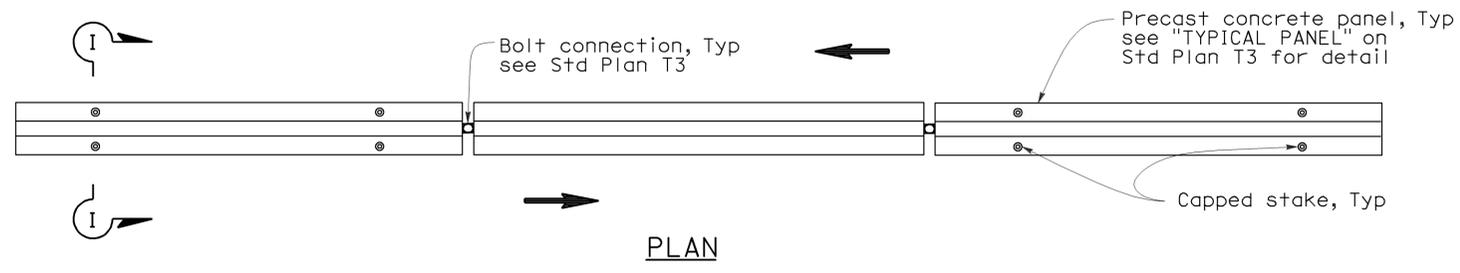
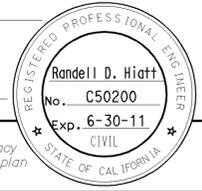
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	19	51

Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

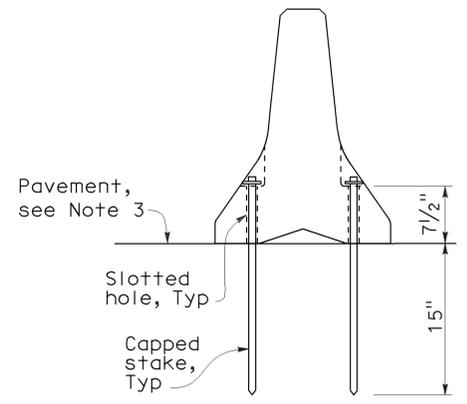
May 20, 2011  
PLANS APPROVAL DATE

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To accompany plans dated 12-12-11

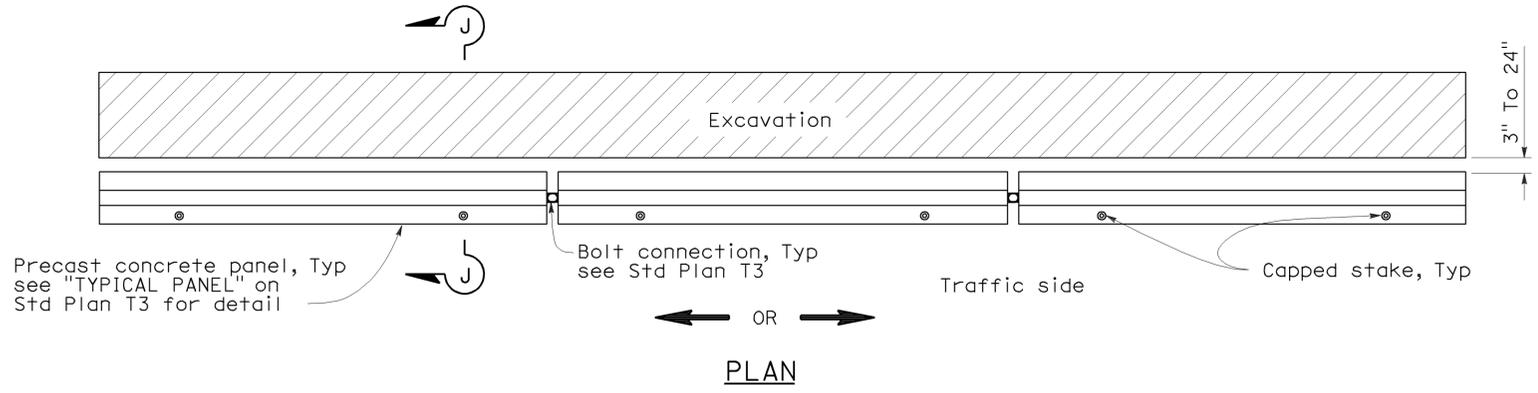


**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1

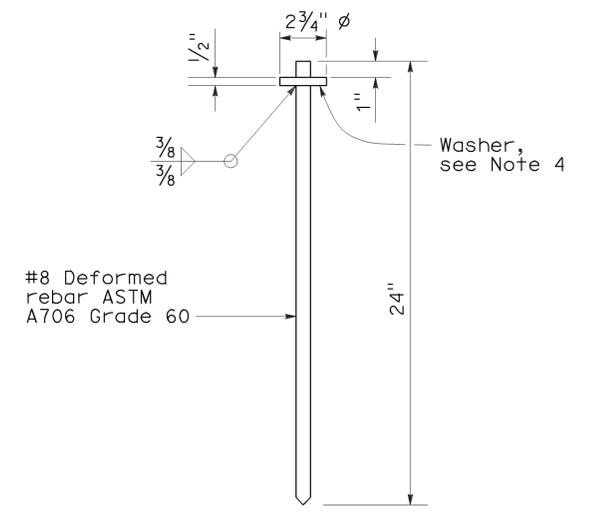
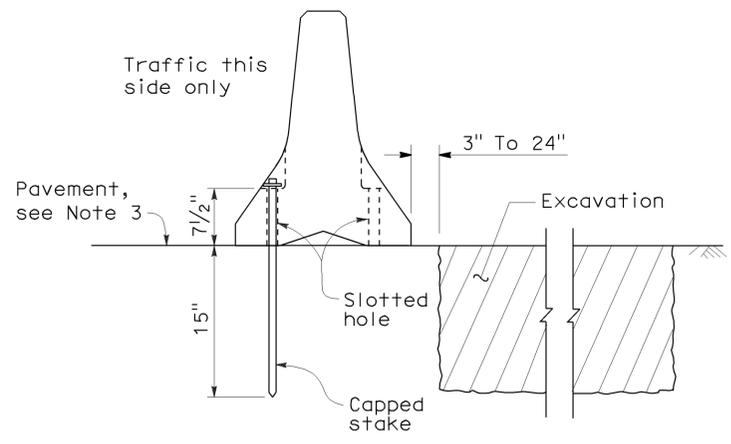


**NOTES:**

1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by  $\Rightarrow$ .



**RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION**  
See Note 2



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

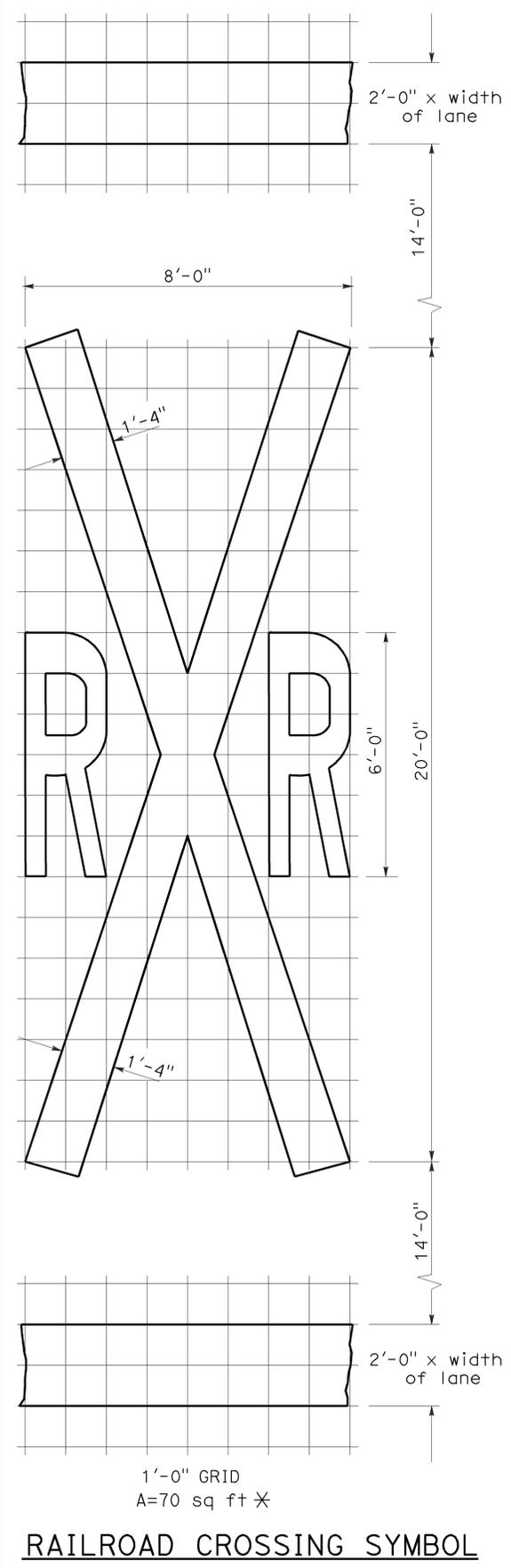
**TEMPORARY RAILING  
(TYPE K)**

NO SCALE

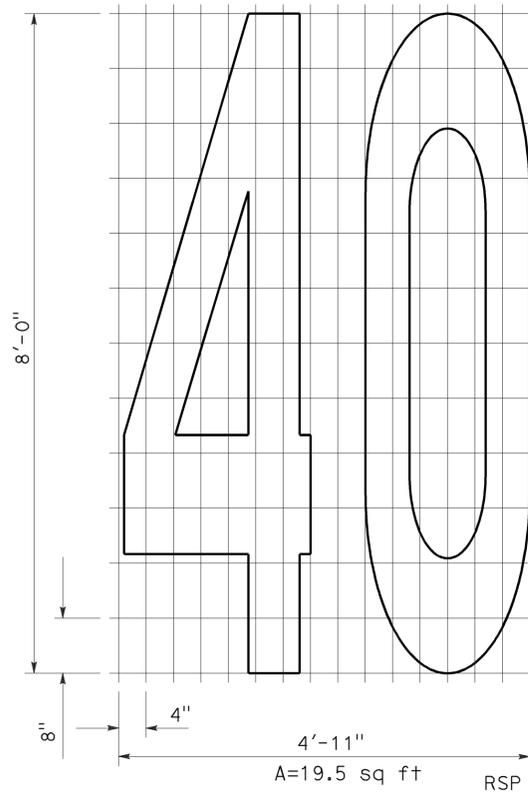
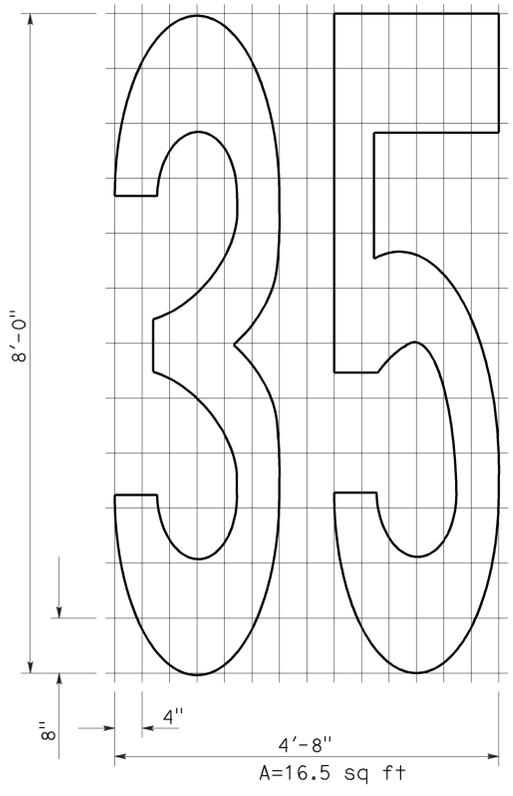
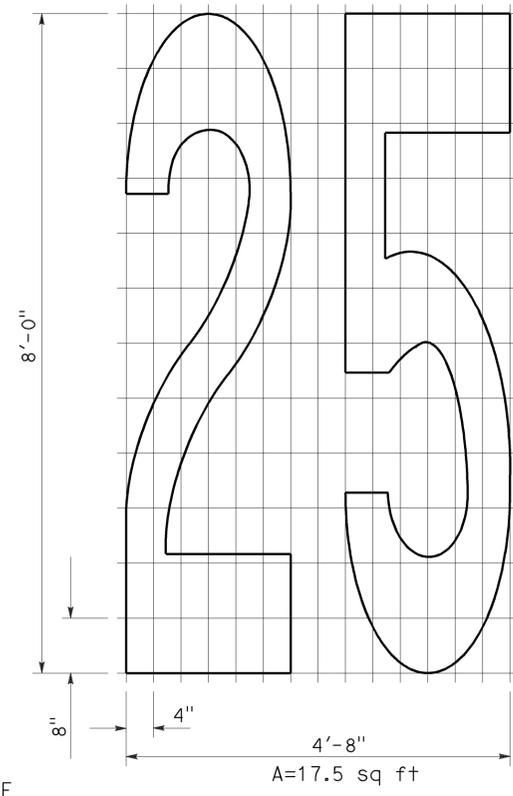
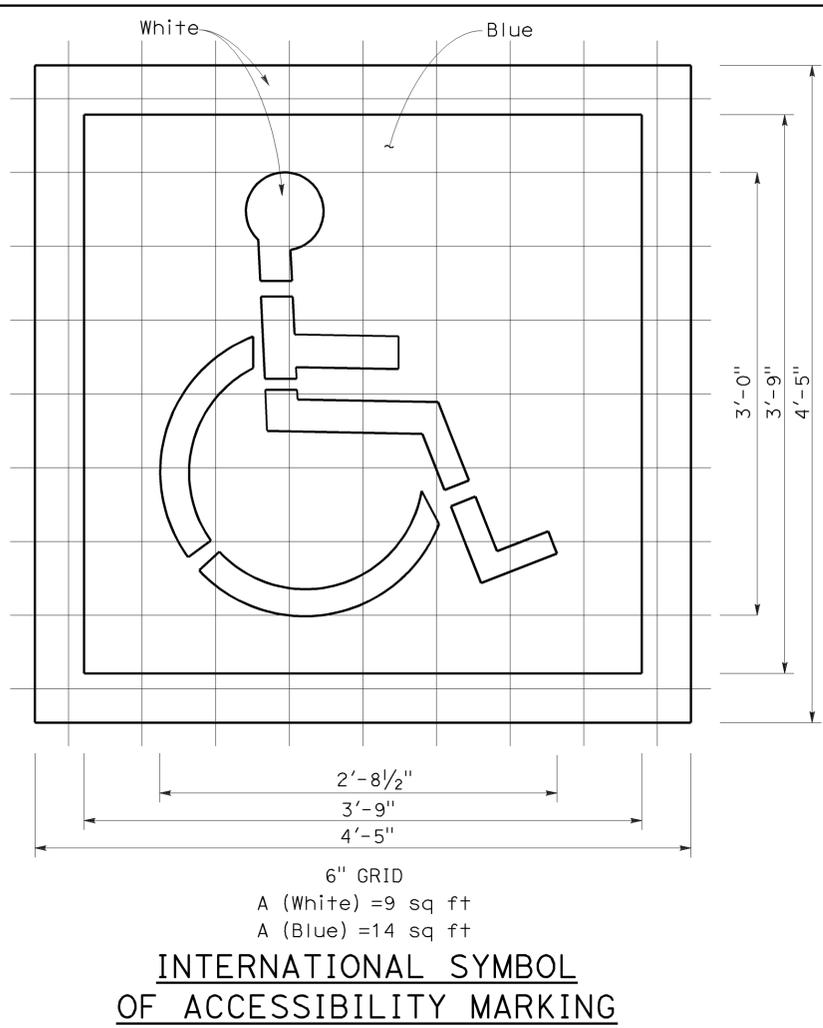
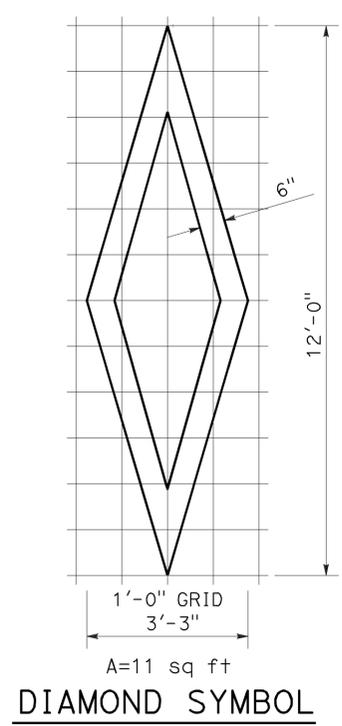
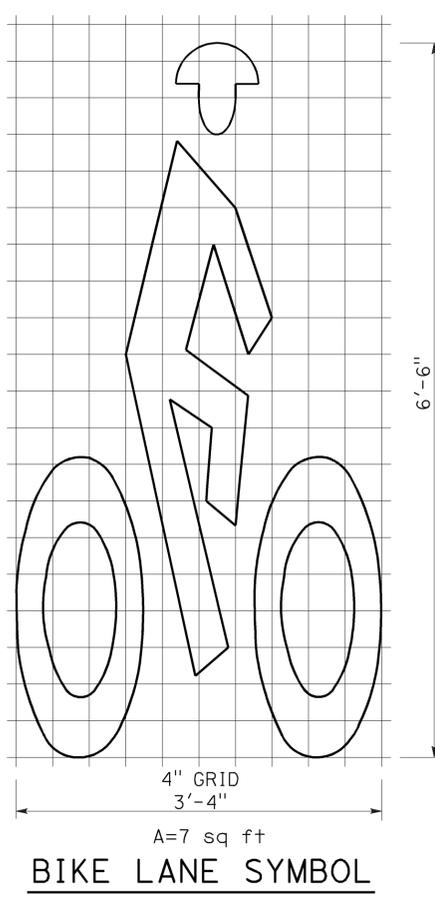
NSP T3A DATED MAY 20, 2011 SUPPLEMENTS  
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T3A

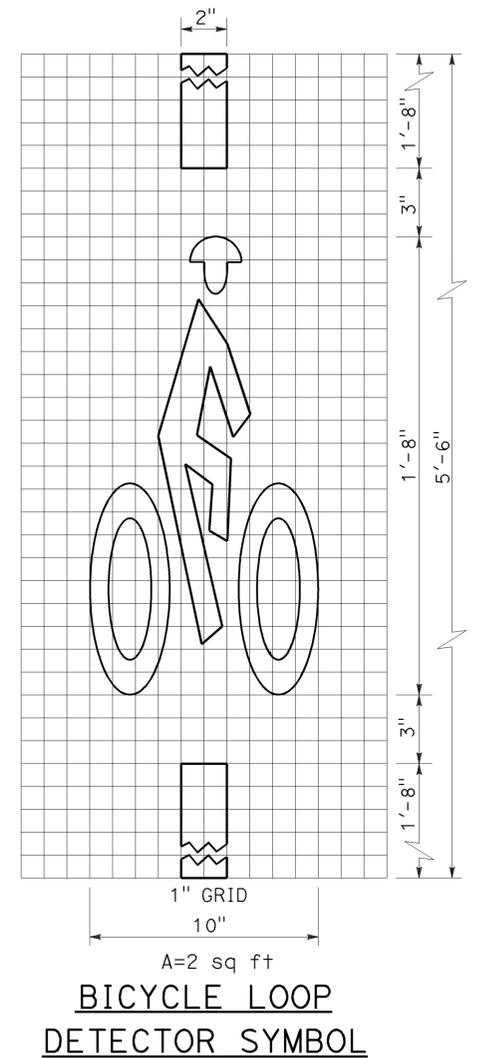
To accompany plans dated 12-12-11



\*70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



**NUMERALS**



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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS SYMBOLS AND NUMERALS**

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	1, 10, 405	Var	21	51

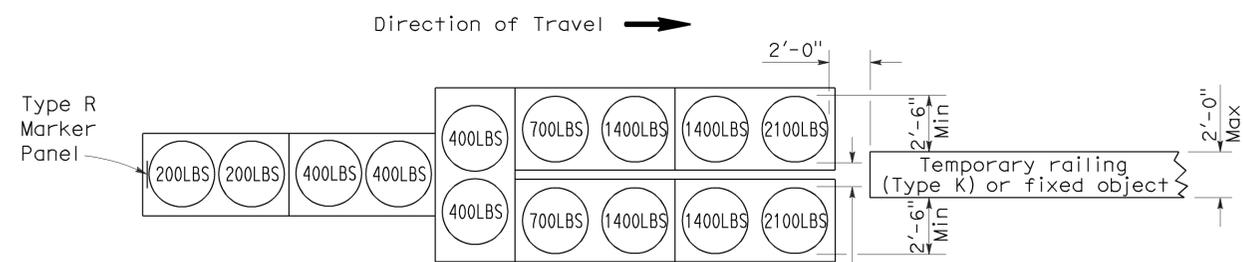
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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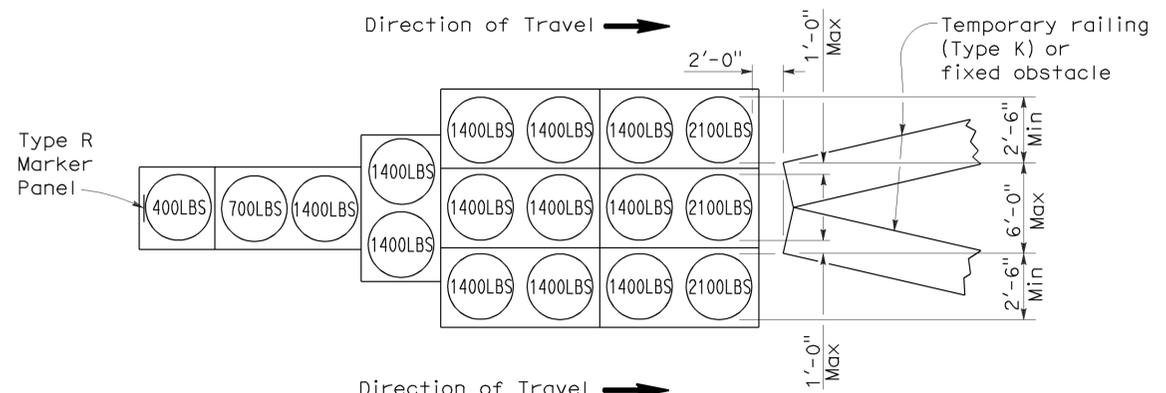
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 12-12-11



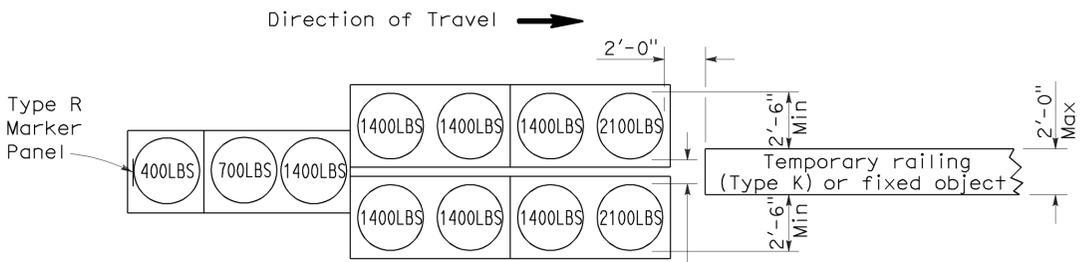
**ARRAY 'TU14'**

Approach speed 45 mph or more



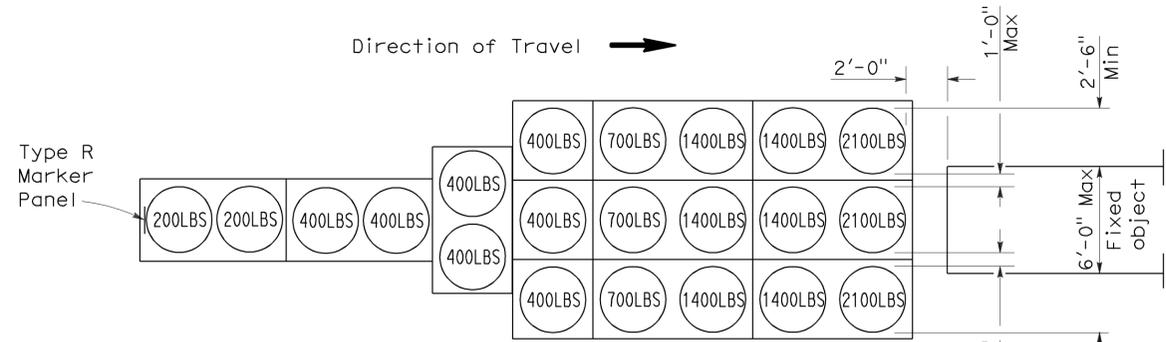
**ARRAY 'TU17'**

Approach speed less than 45 mph



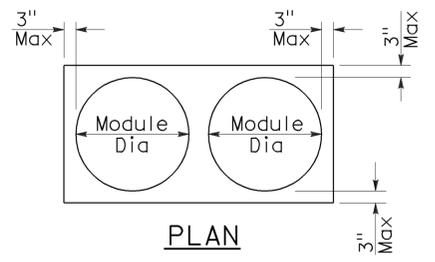
**ARRAY 'TU11'**

Approach speed less than 45 mph

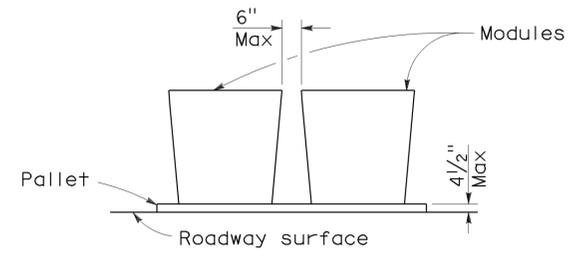


**ARRAY 'TU21'**

Approach speed 45 mph or more



**PLAN**



**ELEVATION**

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A  
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1A**

2006 REVISED STANDARD PLAN RSP T1A

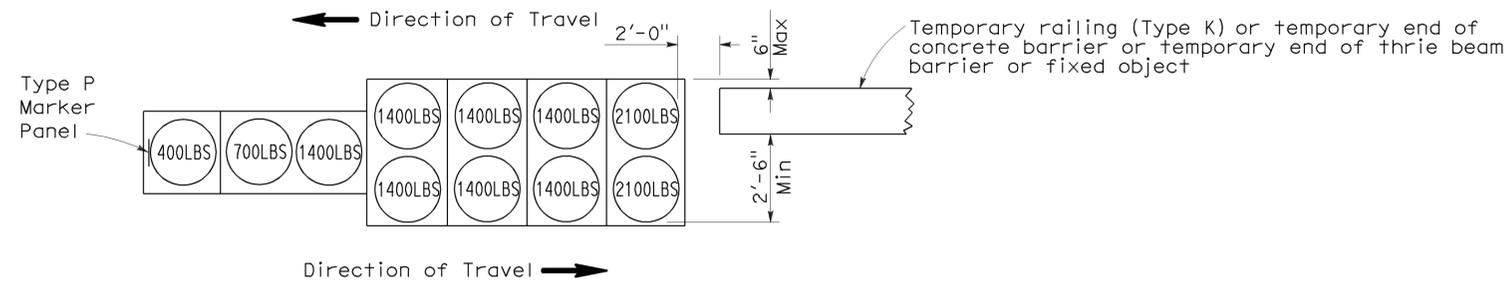
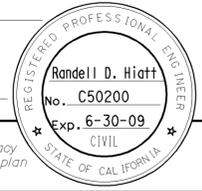
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	1, 10, 405	Var	22	51

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

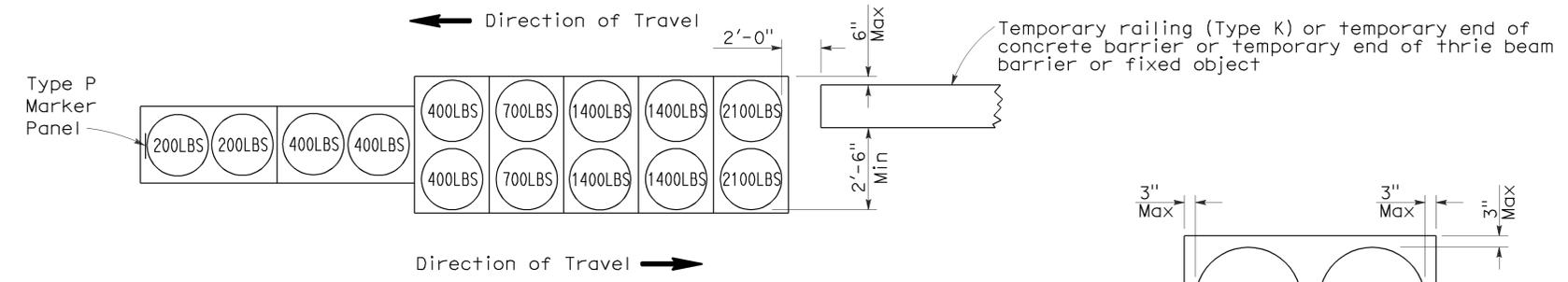
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 12-12-11



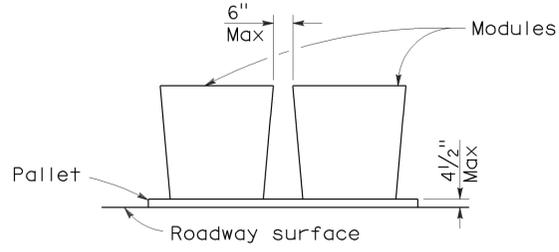
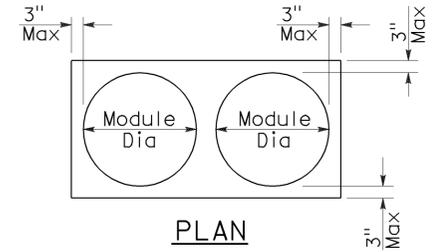
**ARRAY 'TB11'**

Approach speed less than 45 mph



**ARRAY 'TB14'**

Approach speed 45 mph or more



**CRASH CUSHION PALLET DETAIL**  
See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B  
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

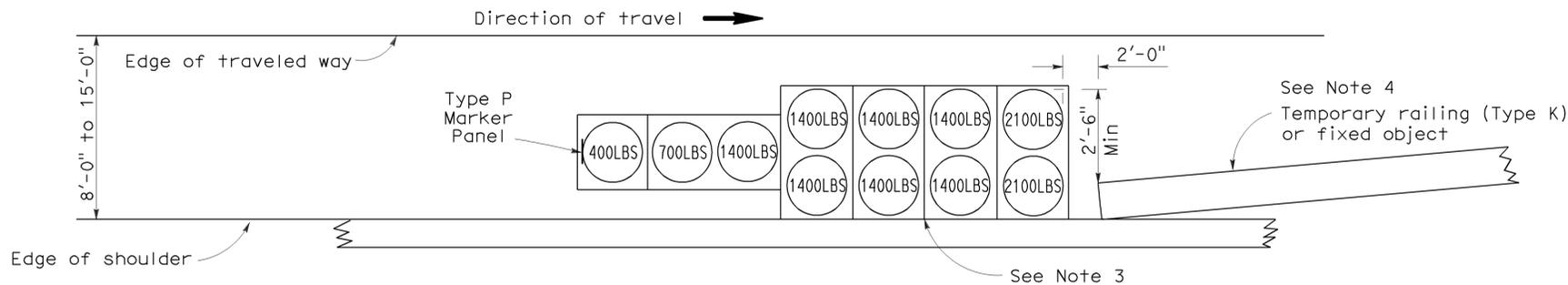
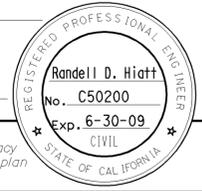
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	1, 10, 405	Var	23	51

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

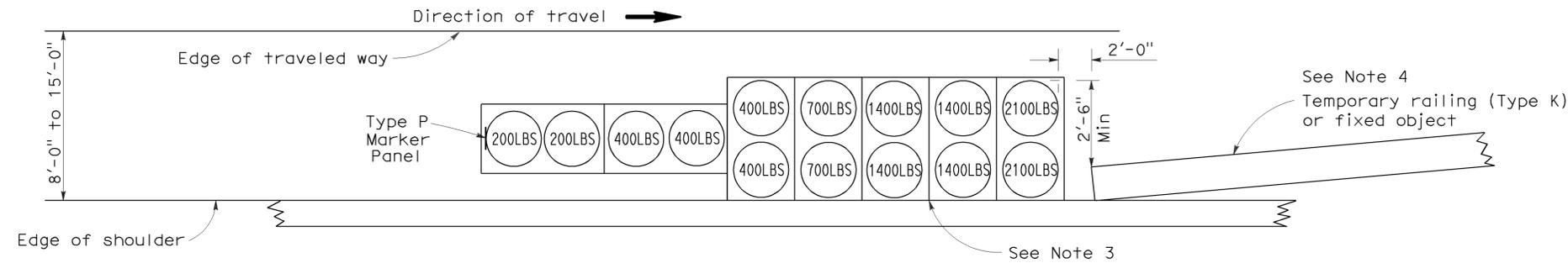
June 6, 2008  
PLANS APPROVAL DATE

*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.*

To accompany plans dated 12-12-11



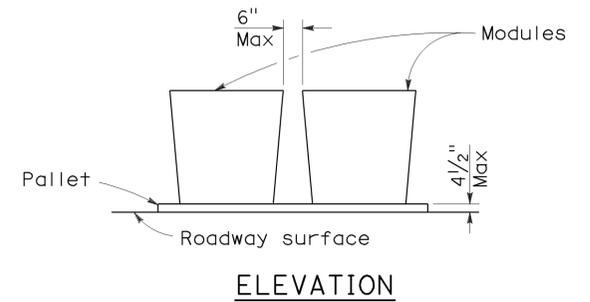
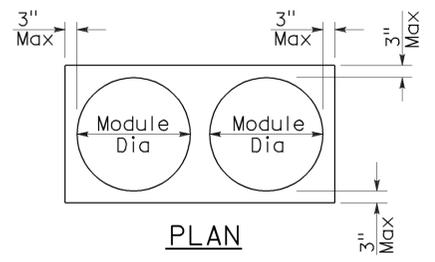
**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



**ARRAY 'TS14'**  
Approach speed 45 mph or more  
See Note 9

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
4. If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. Use of pallets is optional.



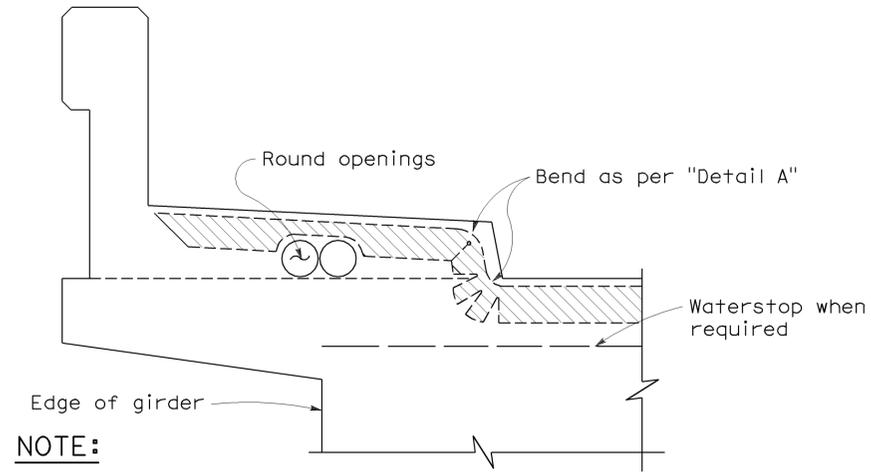
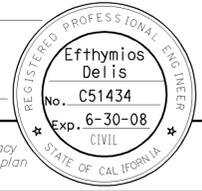
**CRASH CUSHION PALLET DETAIL**  
See Note 11

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**  
NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2  
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

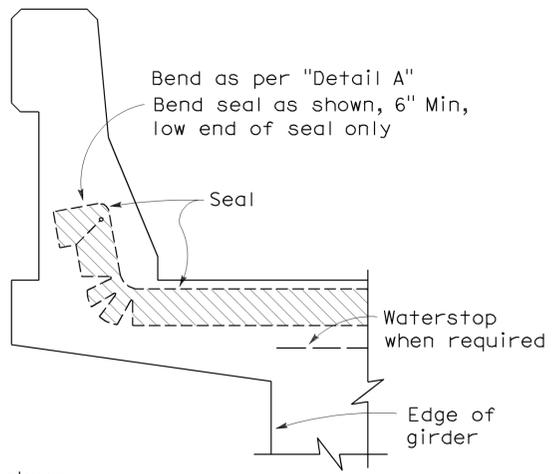
**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

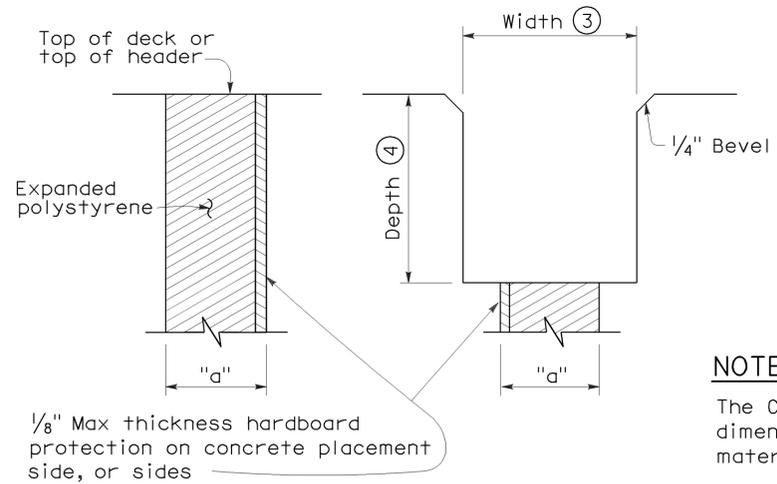


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



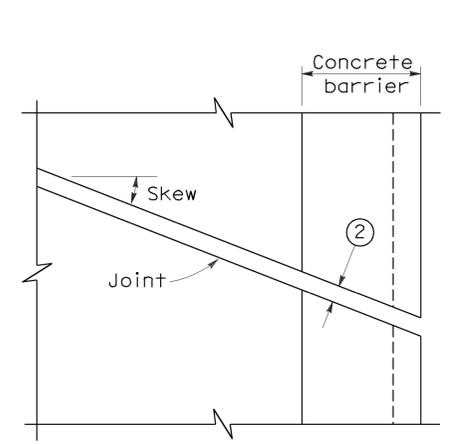
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

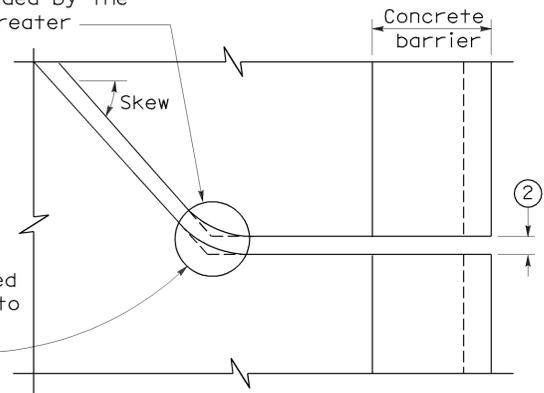
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



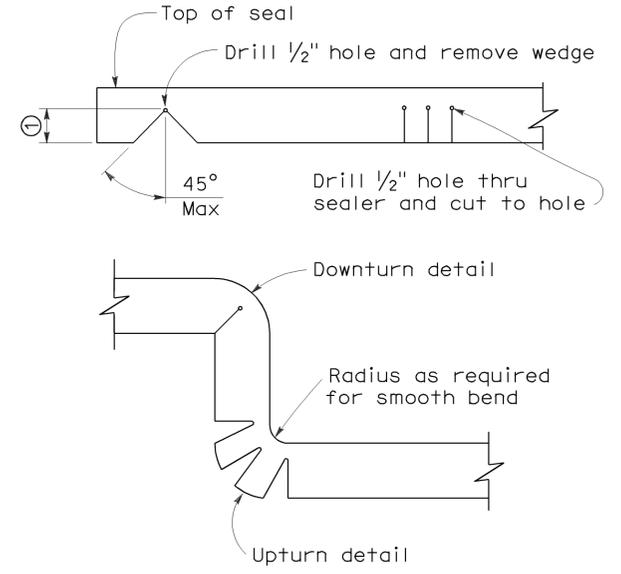
**PLAN OF JOINT (SKEW ≤ 20°)**

Min  $\phi$  radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



**PLAN OF JOINT (SKEW > 20°)**

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.

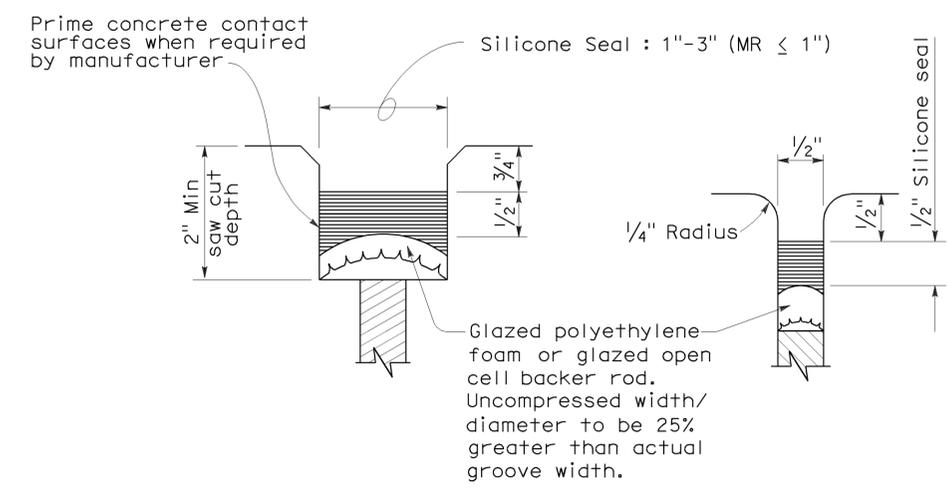


**DETAIL A**

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

**DIMENSIONS "a" OF JOINT REQUIRED**

Movement Rating (MR) (5)	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

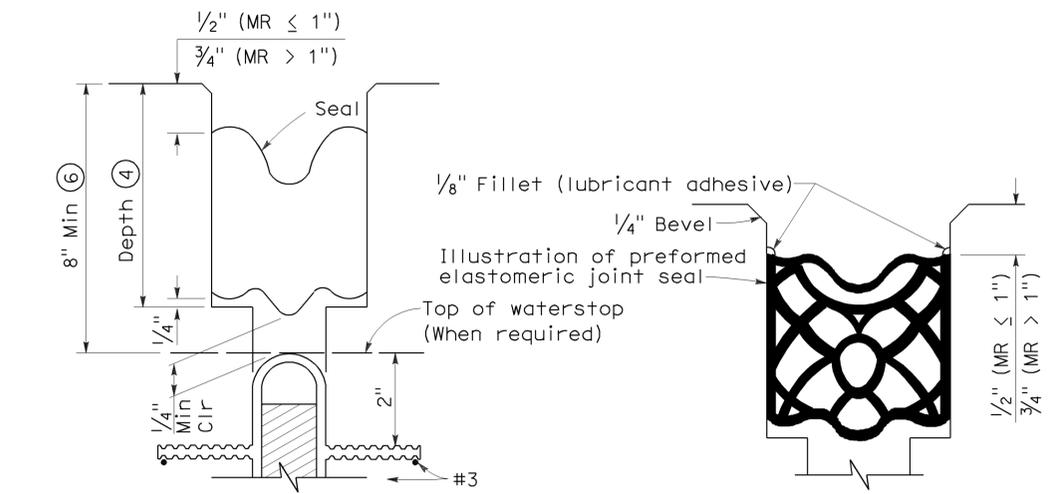


**TYPE A SEAL**

Movement rating : Silicone = 1" Max

**TYPE AL SEAL**

Longitudinal joints only



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

**TYPE B SEAL**

Movement Rating ≤ 2"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**JOINT SEALS**  
**(MAXIMUM MOVEMENT RATING = 2")**  
 NO SCALE

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP B6-21

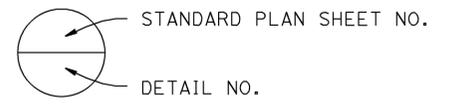
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	25	51
 REGISTERED CIVIL ENGINEER DATE 08/25/11					
12-12-11 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					

### 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	GENERAL PLAN NO. 15
16	GENERAL PLAN NO. 16
17	GENERAL PLAN NO. 17
18	GENERAL PLAN NO. 18
19	MISCELLANEOUS DETAILS NO. 1
20	MISCELLANEOUS DETAILS NO. 2
21	PICKET RAILING (AS-BUILT)
22	DRAIN DETAILS NO. 1 (AS-BUILT)
23	DRAIN DETAILS NO. 2 (AS-BUILT)
24	DRAIN DETAILS NO. 3 (AS-BUILT)
25	DRAIN DETAILS NO. 4 (AS-BUILT)
26	BARRIER RAILING (AS-BUILT)
27	STRUCTURE APPROACH TYPE R(30D)

### STANDARD PLANS DATED MAY 2006

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

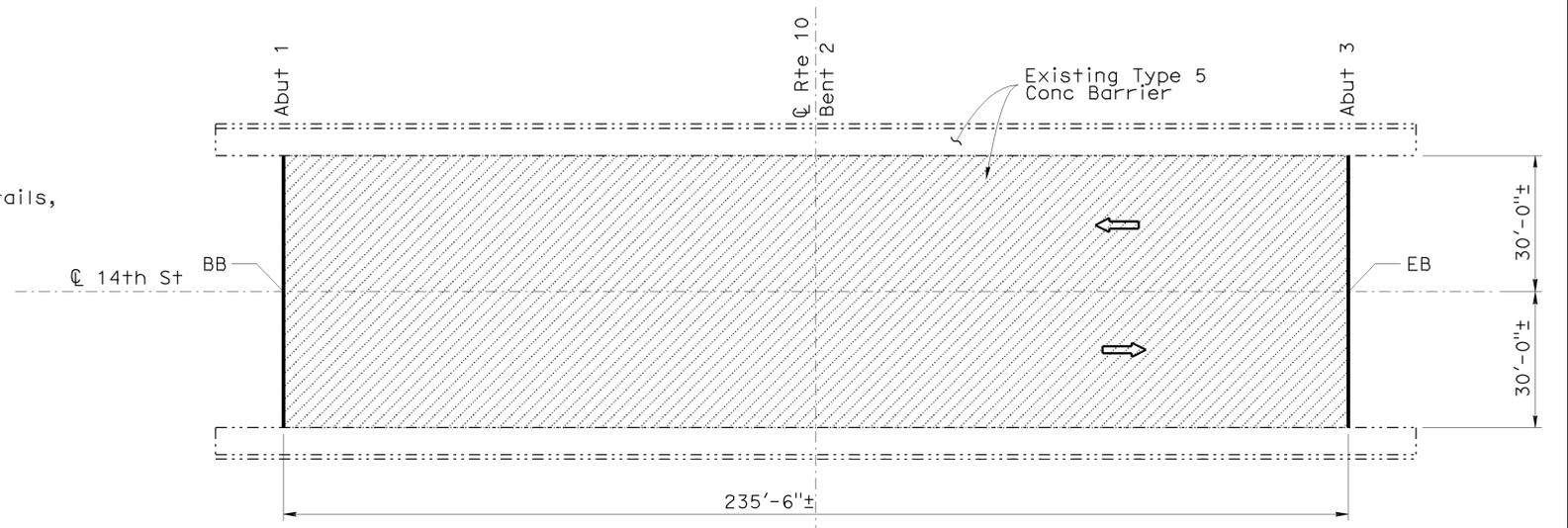


### LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck 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 approximate location of expansion bearing shear bar repair, see "KEEPER PLATE DETAIL".

### NOTES:

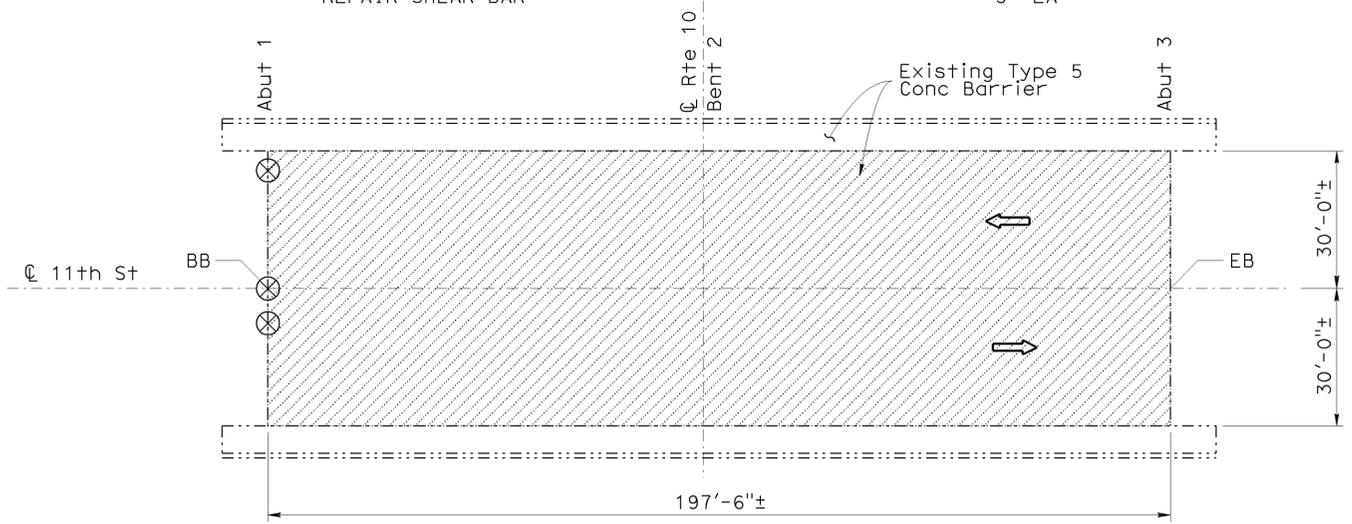
- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For repair joint details, see "MISCELLANEOUS DETAILS NO. 2" sheet.



### 14TH STREET OC

Br No. 53-1596, Rte 10, PM R2.61  
1" = 20'

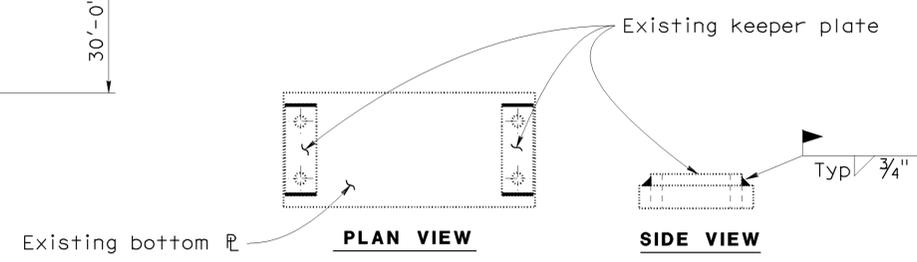
11TH ST OC	53-1595 QUANTITIES
CLEAN BRIDGE DECK	11,900 SQFT
TREAT BRIDGE DECK	11,900 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	150 GAL
PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SHEAR BAR	3 EA



### 11TH STREET OC

Br No. 53-1595, Rte 10, PM R2.38  
1" = 20'

14TH ST OC	53-1596 QUANTITIES
REMOVE UNSOUND CONCRETE	2 CF
CLEAN BRIDGE DECK	14,200 SQFT
CLEAN EXPANSION JOINT	120 LF
RAPID SETTING CONCRETE (PATCH)	2 CF
JOINT SEAL (MR 1")	120 LF
TREAT BRIDGE DECK	14,200 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	180 GAL
PUBLIC SAFETY PLAN	LUMP SUM



### KEEPER PLATE DETAIL

NO SCALE

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED HongTien 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 10 BRIDGES GENERAL PLAN NO. 1
	DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang			POST MILE	
	QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez			Varies	
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)									
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						UNIT: X PROJECT NUMBER & PHASE: 0700001895		CONTRACT NO.: 4Y740	
DISREGARD PRINTS BEARING EARLIER REVISION DATES								REVISION DATES 02-01-11	
								SHEET 01 OF 27	

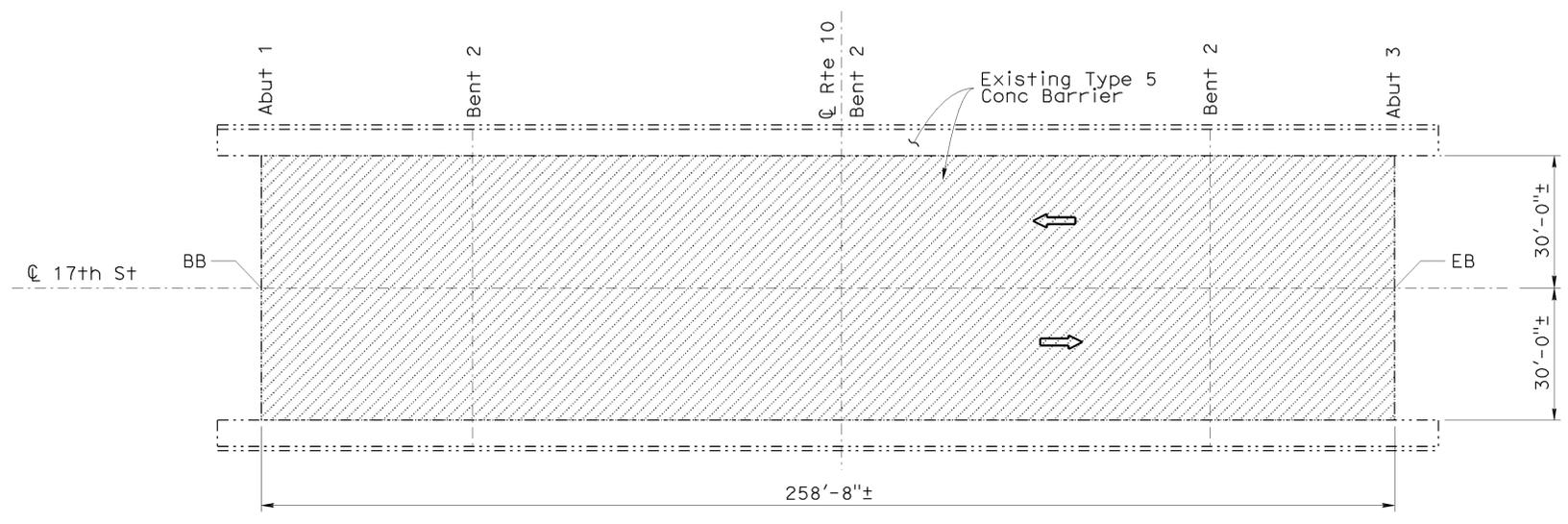
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	26	51

08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

**LEGEND:**

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

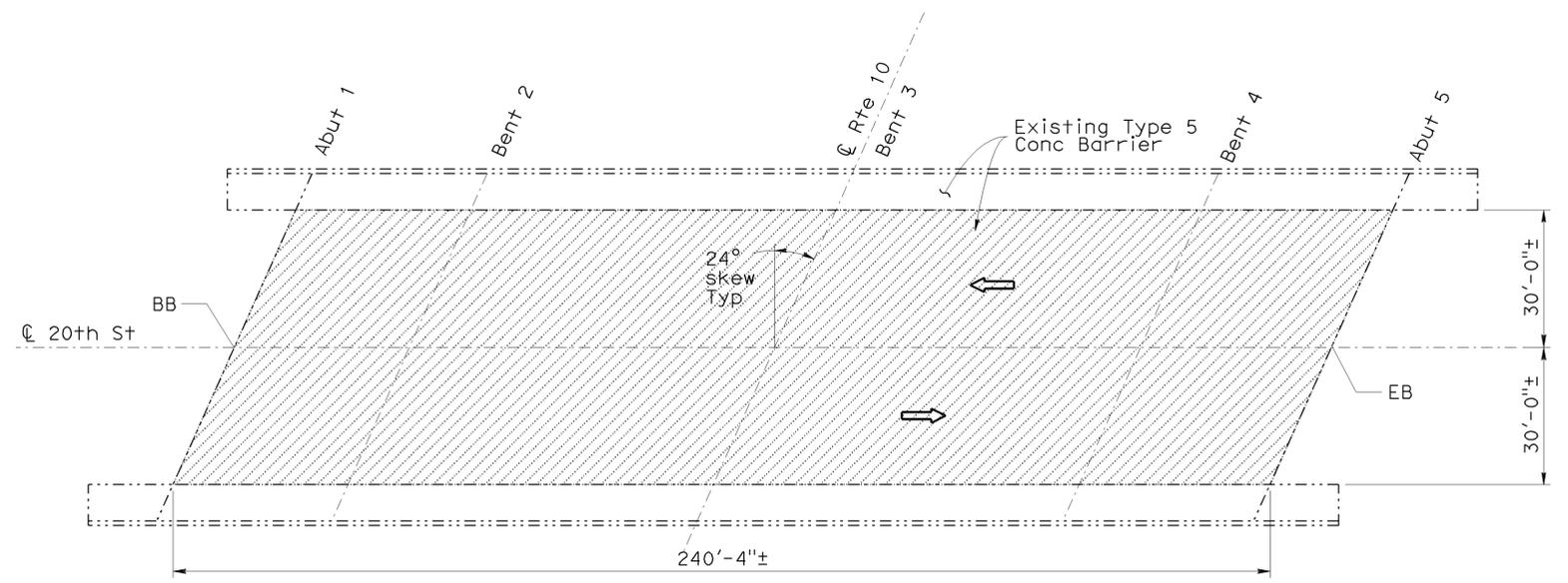
17TH ST OC 53-1597  
 QUANTITIES  
 CLEAN BRIDGE DECK 15,600 SQFT  
 TREAT BRIDGE DECK 15,600 SQFT  
 FURNISH BRIDGE DECK TREATMENT MATERIAL 200 GAL  
 PUBLIC SAFETY PLAN LUMP SUM



**17TH STREET OC**  
 Br No. 53-1597, Rte 10, PM R2.84  
 1" = 20'

**NOTES:**

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



20TH ST OC 53-1598  
 QUANTITIES  
 CLEAN BRIDGE DECK 14,500 SQFT  
 TREAT BRIDGE DECK 14,500 SQFT  
 FURNISH BRIDGE DECK TREATMENT MATERIAL 190 GAL  
 PUBLIC SAFETY PLAN LUMP SUM

**20TH STREET OC**  
 Br No. 53-1598, Rte 10, PM R3.07  
 1" = 20'

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

DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

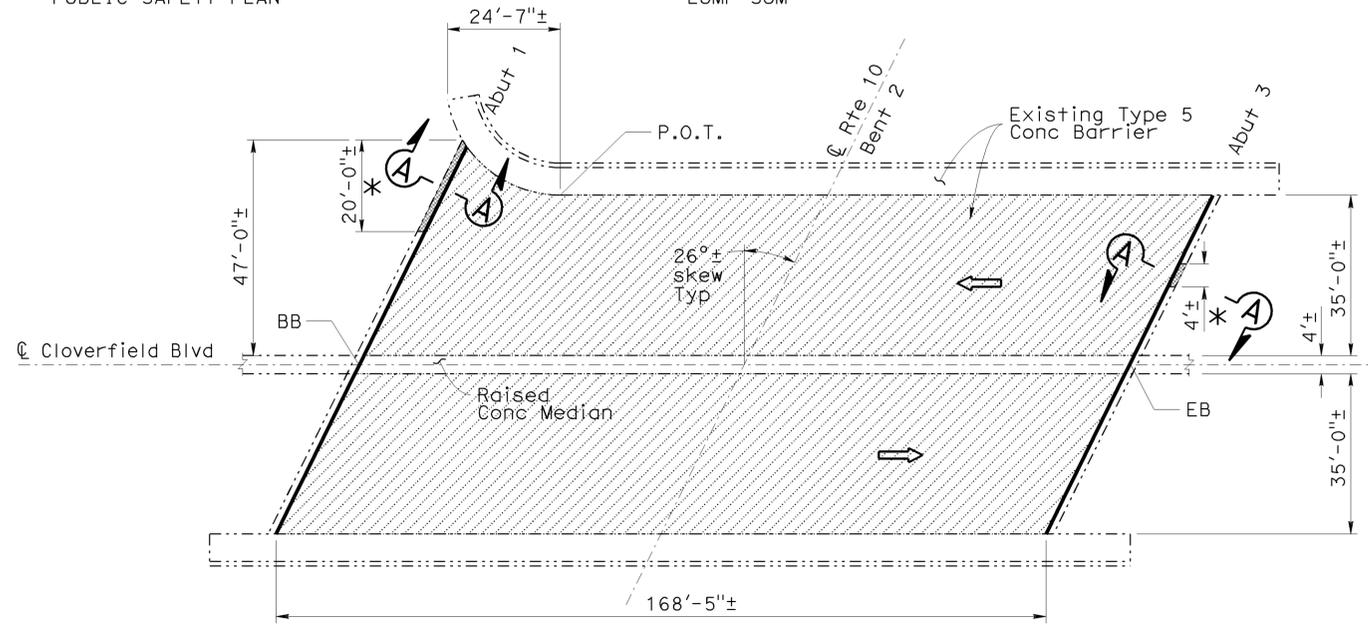
DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Varies

ROUTE 10 BRIDGES  
 GENERAL PLAN NO. 2

CLOVERFIELD BLVD OC 53-1599  
QUANTITIES

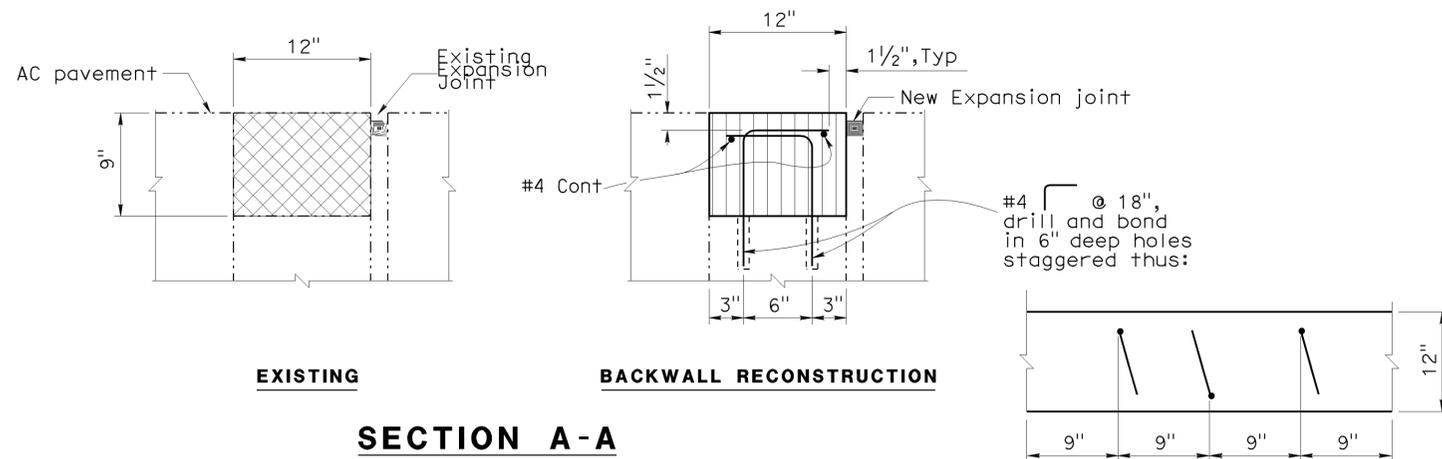
REMOVE UNSOUND CONCRETE	2	CF
CLEAN BRIDGE DECK	12,400	SQFT
BRIDGE REMOVAL (PORTION)	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	1	CY
DRILL AND BOND DOWEL	19	LF
CLEAN EXPANSION JOINT	179	LF
RAPID SETTING CONCRETE (PATCH)	2	CF
JOINT SEAL (MR 1")	179	LF
BAR REINFORCING STEEL (BRIDGE)	80	LB
TREAT BRIDGE DECK	12,400	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	160	GAL
PUBLIC SAFETY PLAN	LUMP	SUM



**CLOVERFIELD BLVD OC**

Br No. 53-1599, Rte 10, PM R3.34  
1" = 20'

\* Limit of bridge removal (portion)



**SECTION A-A**

**BACKWALL REPAIRS DETAILS**

NO SCALE

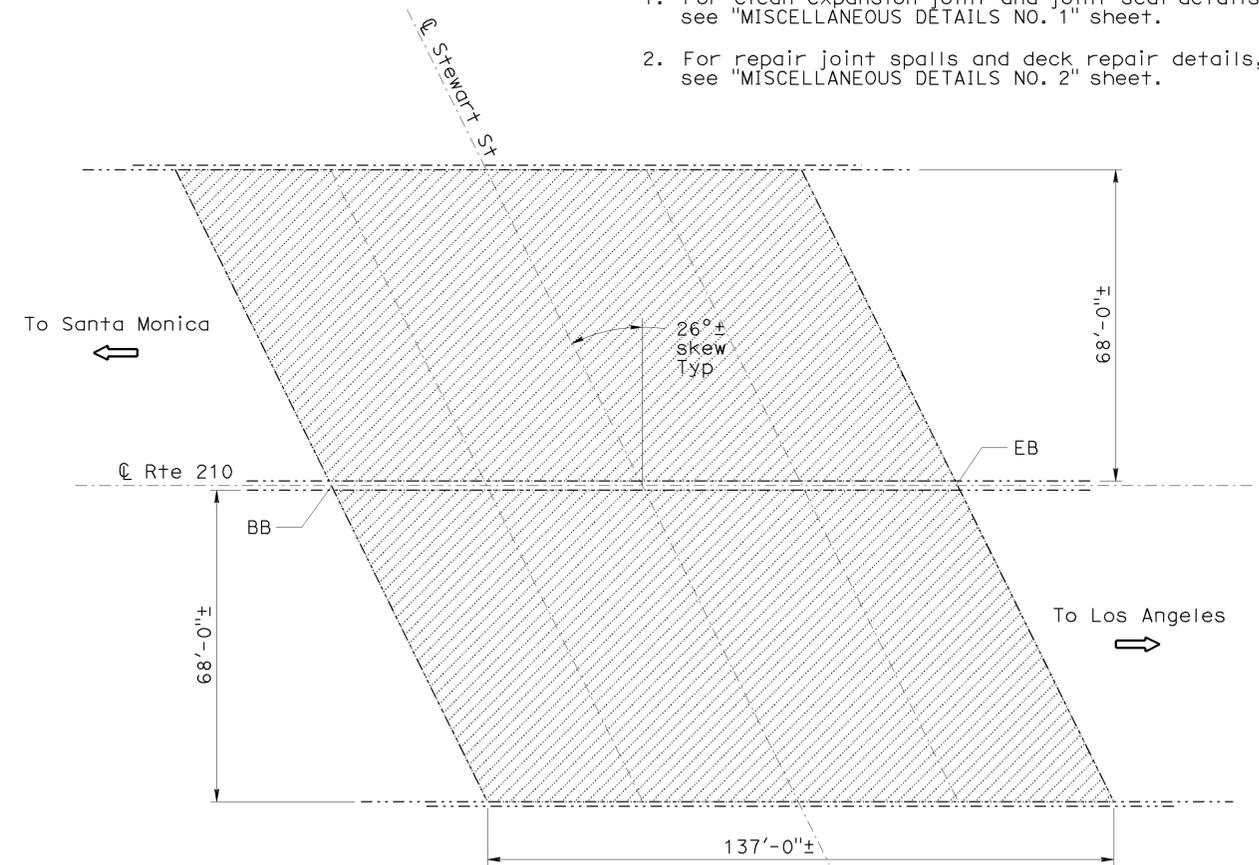
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.
- ▧ Indicates limits of bridge removal (portion).
- ▩ Indicates new PCC.
- / 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.

**NOTES:**

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



**STEWART STREET UC**

Br No. 53-1600, Rte 10, PM R3.71  
1" = 20'

STEWART ST OC 53-1600  
QUANTITIES

CLEAN BRIDGE DECK	18,700	SQFT
TREAT BRIDGE DECK	18,700	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	250	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	27	51

REGISTERED CIVIL ENGINEER DATE 08/25/11  
PLANS APPROVAL DATE 12-12-11  
No. C65380  
Exp. 09/30/11  
CIVIL  
STATE OF CALIFORNIA

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	28	51

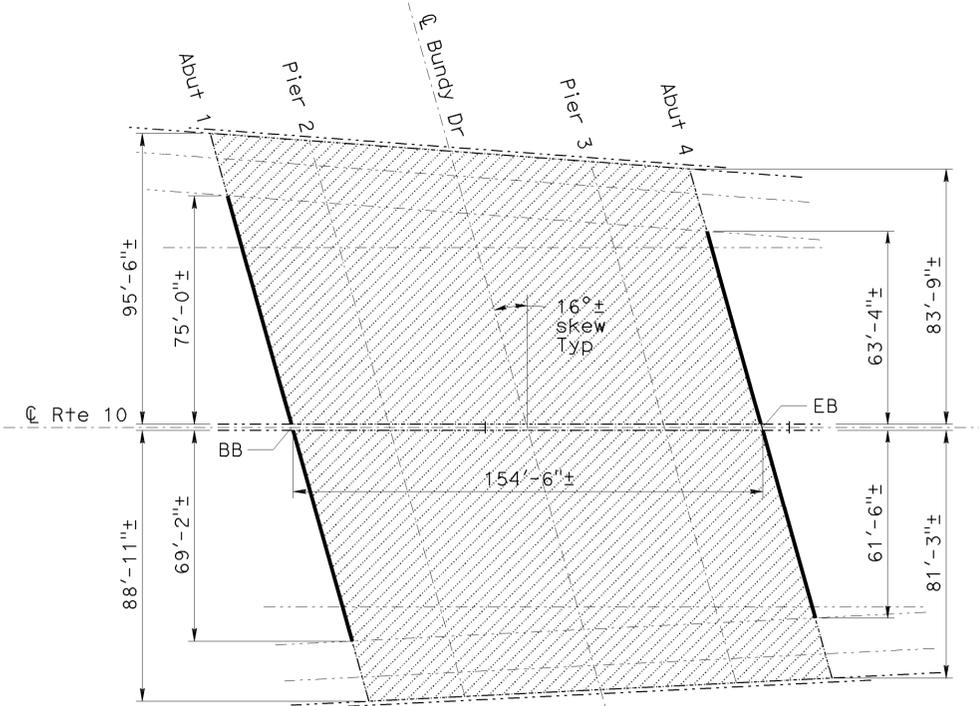
08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE

GERALD D. JOO  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA

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

BUNDY DR UC 53-1604

- QUANTITIES
- REMOVE UNSOUND CONCRETE 3 CF
  - CLEAN BRIDGE DECK 28,000 SQFT
  - CLEAN EXPANSION JOINT 280 LF
  - RAPID SETTING CONCRETE (PATCH) 3 CF
  - JOINT SEAL (MR 1") 280 LF
  - TREAT BRIDGE DECK 28,000 SQFT
  - FURNISH BRIDGE DECK TREATMENT MATERIAL 350 GAL
  - PUBLIC SAFETY PLAN LUMP SUM



**NOTES:**

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

**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck 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 approximate location of clean bridge deck drainage system.

**BUNDY DRIVE UC**

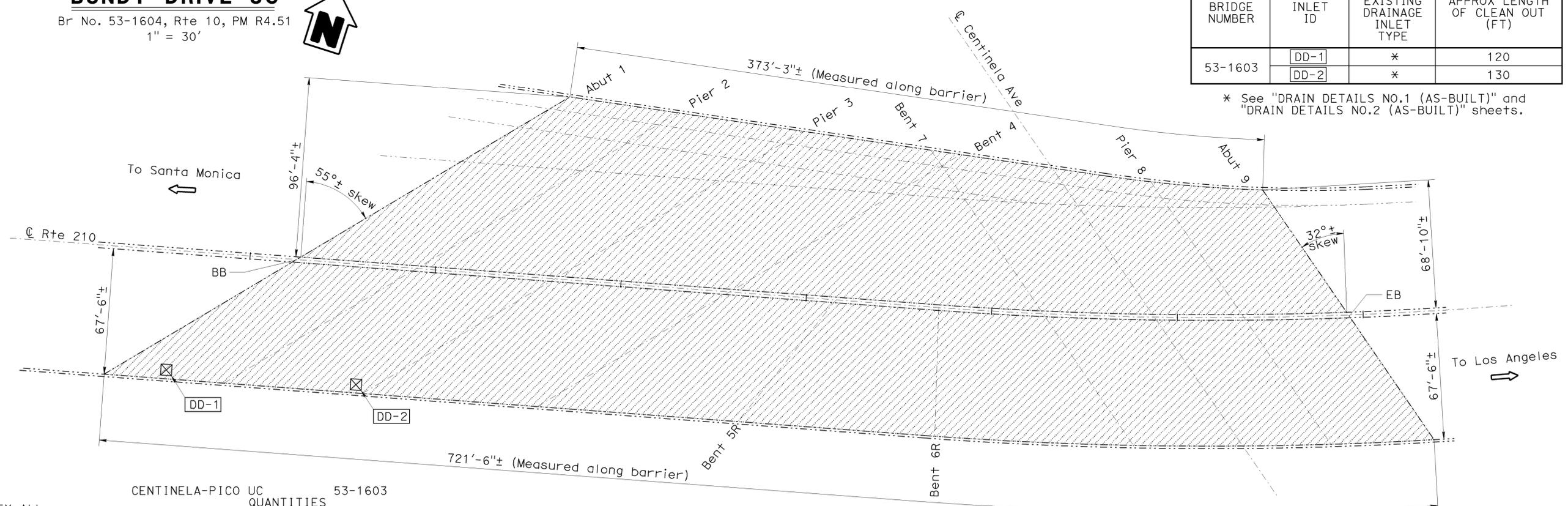
Br No. 53-1604, Rte 10, PM R4.51  
 1" = 30'



**DECK DRAIN CLEANING**

BRIDGE NUMBER	INLET ID	EXISTING DRAINAGE INLET TYPE	APPROX LENGTH OF CLEAN OUT (FT)
53-1603	DD-1	*	120
	DD-2	*	130

\* See "DRAIN DETAILS NO.1 (AS-BUILT)" and "DRAIN DETAILS NO.2 (AS-BUILT)" sheets.



CENTINELA-PICO UC 53-1603

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

- QUANTITIES
- CLEAN BRIDGE DECK 84,000 SQFT
  - CLEAN BRIDGE DECK DRAINAGE SYSTEM 250 LF
  - TREAT BRIDGE DECK 84,000 SQFT
  - FURNISH BRIDGE DECK TREATMENT MATERIAL 1,100 GAL
  - PUBLIC SAFETY PLAN LUMP SUM

**CENTINELA-PICO UC**

Br No. 53-1603, Rte 10, PM R4.24  
 1" = 30'



TONY D. BRAKE  
 DESIGN ENGINEER

DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Varies

**ROUTE 10 BRIDGES  
 GENERAL PLAN NO. 4**

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

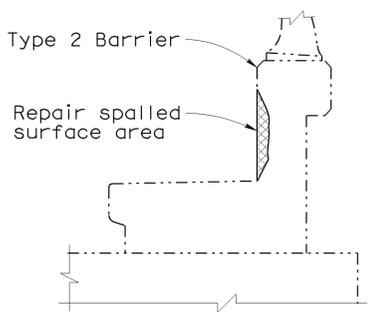
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: X  
 PROJECT NUMBER & PHASE: 0700001895

CONTRACT NO.: 4Y740

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
02-01-11	04	27

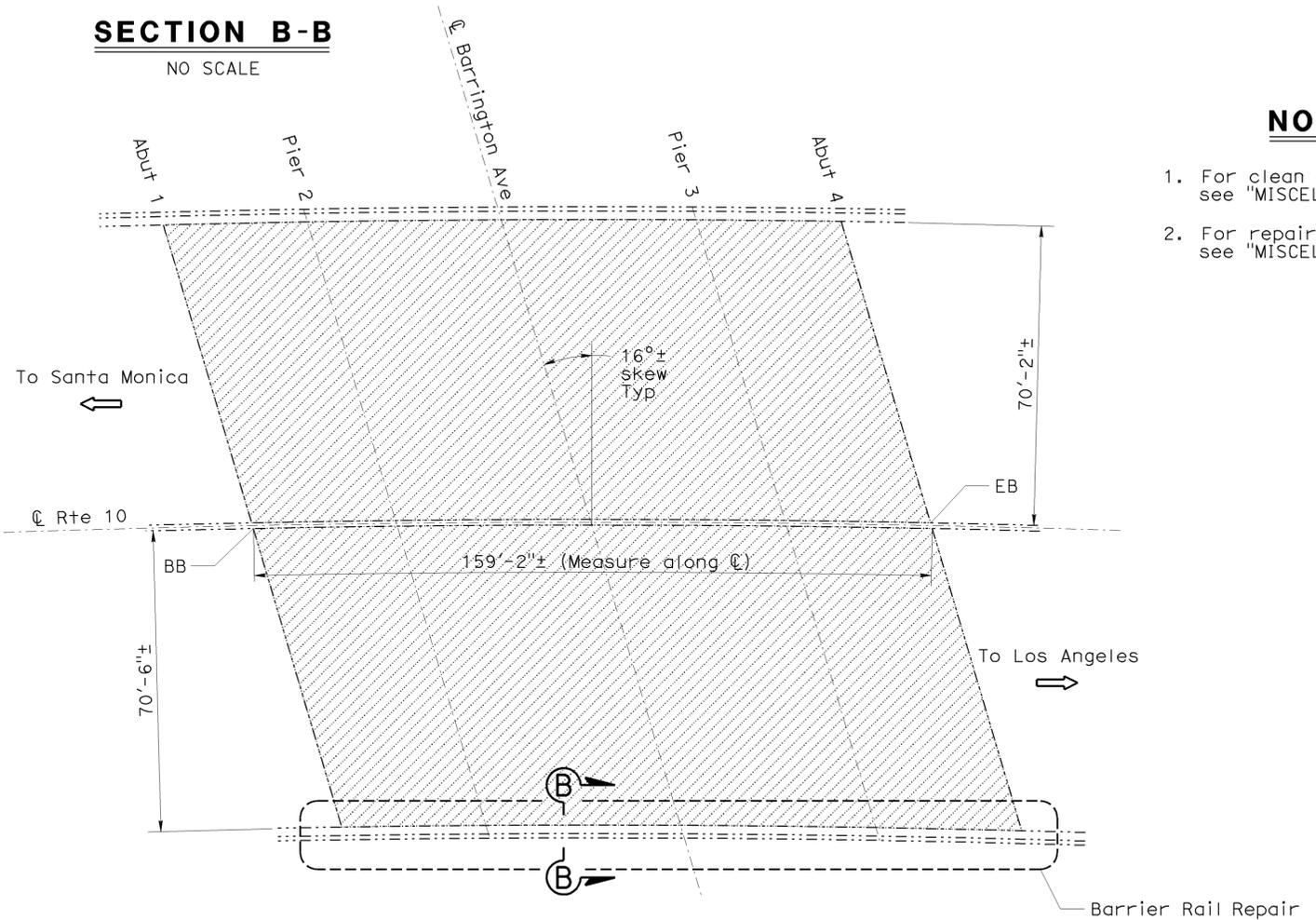


BARRIER RAIL REPAIR				
BRIDGE NAME	BRIDGE NUMBER	BARRIER AREA (SQ-FT)	APPROX AREA DAMAGED	REPAIR SPALLED SURFACE AREA (SQ-FT)
BARRINGTON AVENUE UC	53-1605	240	1%	3
GATEWAY BLVD UC	53-1620	280	1%	3

**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck 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.

**SECTION B-B**  
NO SCALE



**BARRINGTON AVENUE UC**

Br No. 53-1605, Rte 10, PM R4.82  
1" = 20'

**BARRINGTON AVE UC QUANTITIES 53-1605**

CLEAN BRIDGE DECK	22,500	SQFT
REPAIR SPALLED SURFACE AREA	3	SQFT
TREAT BRIDGE DECK	22,500	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	300	GAL
PUBLIC SAFETY PLAN		LUMP SUM

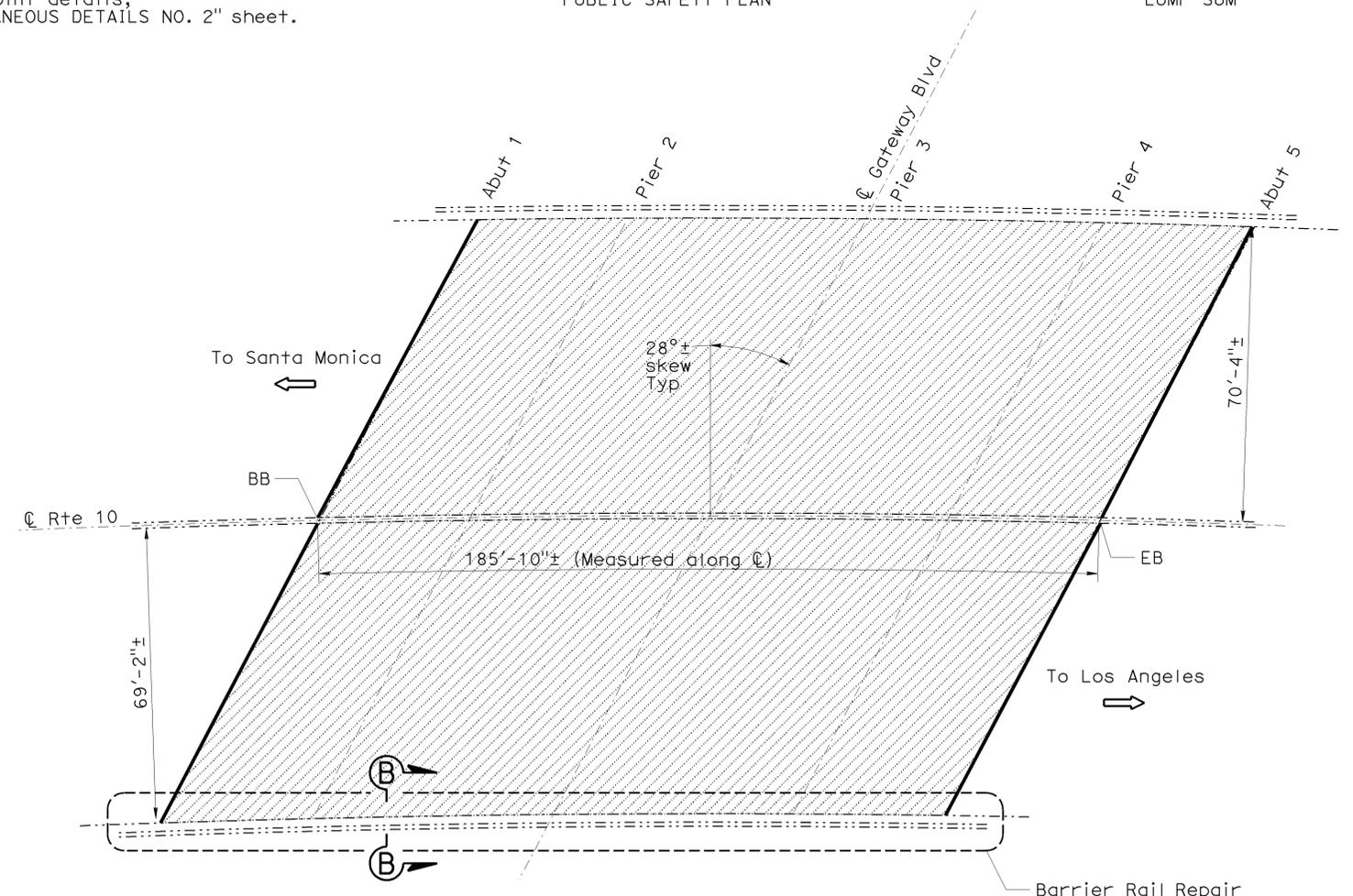
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

**NOTES:**

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

**GATEWAY BLVE UC QUANTITIES 53-1620**

REMOVE UNSOUND CONCRETE	3	CF
CLEAN BRIDGE DECK	26,000	SQFT
CLEAN EXPANSION JOINT	316	LF
RAPID SETTING CONCRETE (PATCH)	3	CF
REPAIR SPALLED SURFACE AREA	3	SQFT
JOINT SEAL (MR 1")	316	LF
TREAT BRIDGE DECK	26,000	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	350	GAL
PUBLIC SAFETY PLAN		LUMP SUM



**GATEWAY BLVD UC**

Br No. 53-1620, Rte 10, PM R4.89  
1" = 20'

DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

**ROUTE 10 BRIDGES  
GENERAL PLAN NO. 5**

REVISION DATES

02-01-11	05	27
----------	----	----

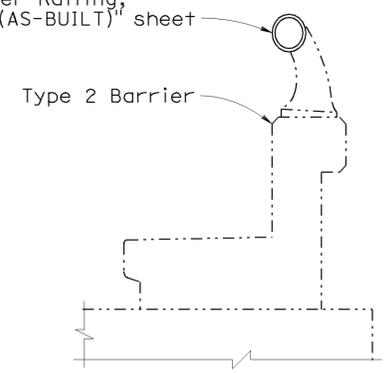
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	30	51

08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

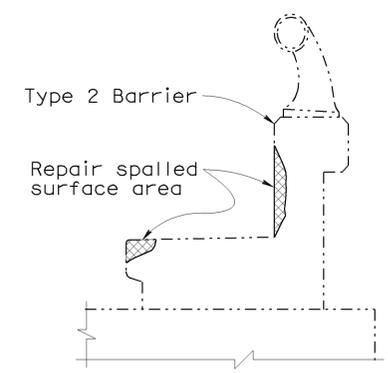
**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.
- ⊠ Indicates approximate location of clean bridge deck drainage system.

Replace missing Tubular Barrier Railing, see "BARRIER RAILING DETAILS (AS-BUILT)" sheet

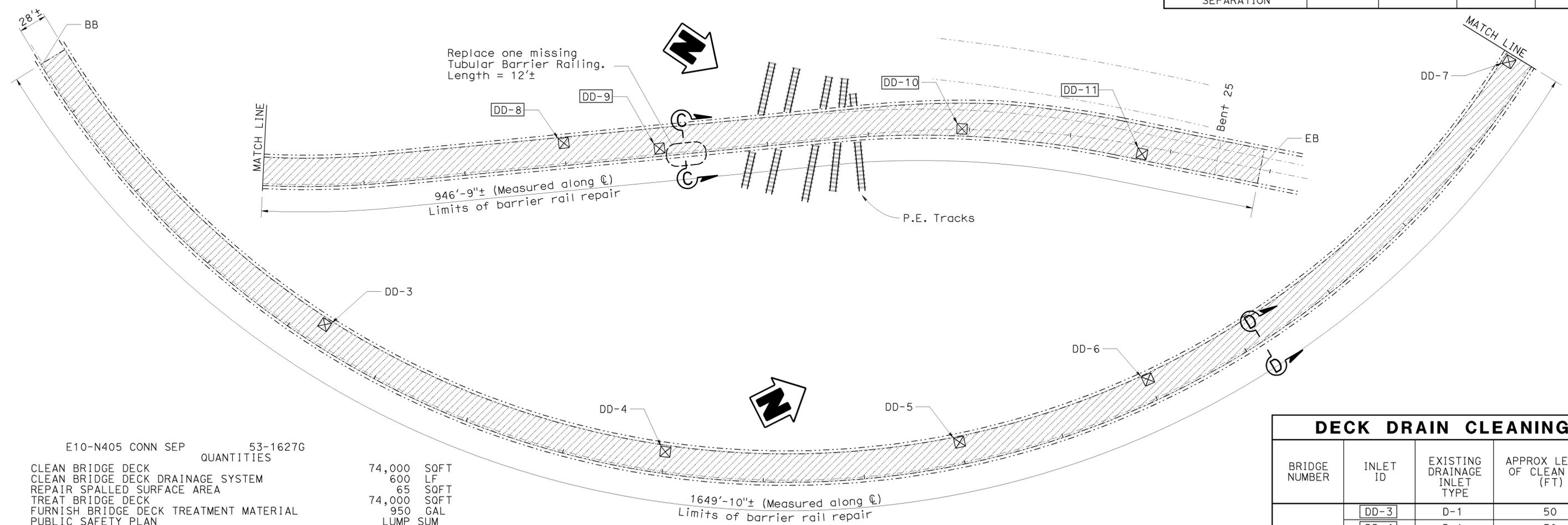


**SECTION C-C**  
NO SCALE



**SECTION D-D**  
NO SCALE

BARRIER RAIL REPAIR				
BRIDGE NAME	BRIDGE NUMBER	BARRIER AREA (SQ-FT)	APPROX AREA DAMAGED	REPAIR SPALLED SURFACE AREA (SQ-FT)
E10-N405 CONNECTOR SEPARATION	53-1627G	6500	1%	65



E10-N405 CONN SEP 53-1627G QUANTITIES

CLEAN BRIDGE DECK	74,000	SQFT
CLEAN BRIDGE DECK DRAINAGE SYSTEM	600	LF
REPAIR SPALLED SURFACE AREA	65	SQFT
TREAT BRIDGE DECK	74,000	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	950	GAL
PUBLIC SAFETY PLAN	LUMP	SUM
METAL TUBE BRIDGE RAILING	12	LF

DECK DRAIN CLEANING			
BRIDGE NUMBER	INLET ID	EXISTING DRAINAGE INLET TYPE	APPROX LENGTH OF CLEAN OUT (FT)
53-1627G	DD-3	D-1	50
	DD-4	D-1	50
	DD-5	D-1	80
	DD-6	D-1	80
	DD-7	D-1	80
	DD-8	D-1	70
	DD-9	D-1	70
	DD-10	D-1	60
	DD-11	D-1	60

**E10-N405 CONNECTOR SEPARATION**

Br No. 53-1627G, Rte 10, PM R5.28  
1" = 50'

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED HongTien 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.	Various	ROUTE 10 BRIDGES GENERAL PLAN NO. 6
	DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang			POST MILE	Varies	
	QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez			PLANS AND SPECS COMPARED	Jennifer Ramirez	

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: X PROJECT NUMBER & PHASE: 0700001895 CONTRACT NO.: 4Y740 DISREGARD PRINTS BEARING EARLIER REVISION DATES SHEET 06 OF 27

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	31	51

08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

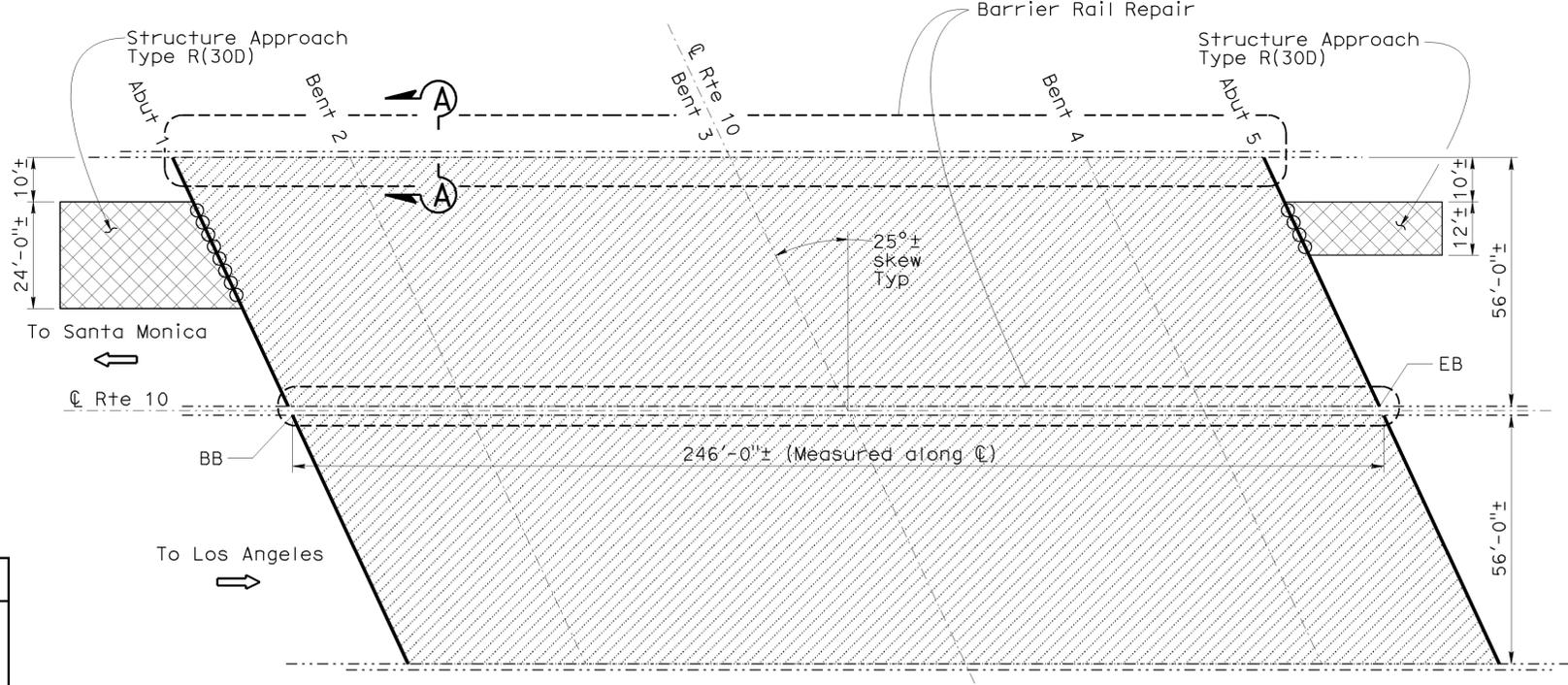
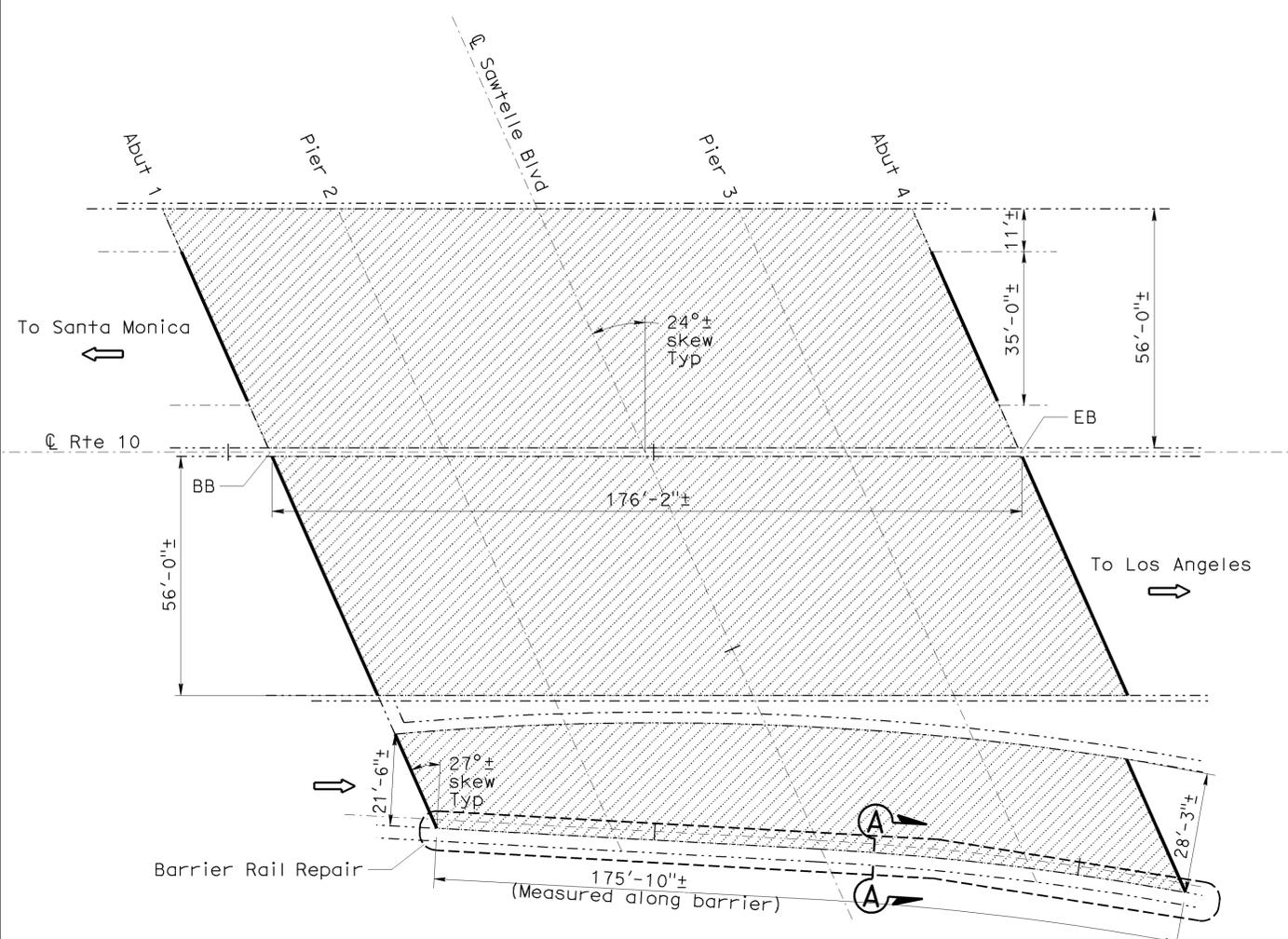
**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
- [Hatched Box] Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.
- [Cross-hatched Box] Indicates limits of remove AC roadway and construct new structure approach slabs with paving notch extension.
- /--- 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 placement of new joint seal. Prior to placement of new joint seal, repair joint spalls (where new approach slabs are replaced, no joint spall repair is required).

**NOTES:**

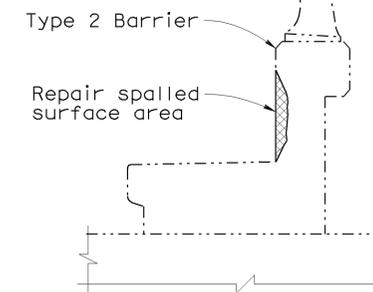
- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For repair joint details, see "MISCELLANEOUS DETAILS NO. 2" sheet.
- For approach slab details, see "STRUCTURE APPROACH TYPE R(30D)" sheet.

ROUTE 10/405 SEP	53-1628	QUANTITIES	
REMOVE UNSOUND CONCRETE		3	CF
CLEAN BRIDGE DECK		28,000	SQFT
AGGREGATE BASE (APPROACH SLAB)		5	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)		50	CY
PAVING NOTCH EXTENSION		35	CF
CLEAN EXPANSION JOINT		209	LF
RAPID SETTING CONCRETE (PATCH)		3	CF
REPAIR SPALLED SURFACE AREA		8	SQFT
JOINT SEAL (MR 1 1/2")		248	LF
TREAT BRIDGE DECK		28,000	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		350	GAL
PUBLIC SAFETY PLAN			LUMP SUM



**SAWTELLE BLVD UC**

SAWTELLE BLVD UC	53-0939	QUANTITIES	
REMOVE UNSOUND CONCRETE		5	CF
CLEAN BRIDGE DECK		25,000	SQFT
CLEAN EXPANSION JOINT		259	LF
RAPID SETTING CONCRETE (PATCH)		5	CF
JOINT SEAL (MR 1")		259	LF
TREAT BRIDGE DECK		25,000	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		320	GAL
PUBLIC SAFETY PLAN			LUMP SUM



**SECTION A-A**

NO SCALE

**BARRIER RAIL REPAIR**

BRIDGE NAME	BRIDGE NUMBER	BARRIER AREA (SQ-FT)	APPROX AREA DAMAGED	REPAIR SPALLED SURFACE AREA (SQ-FT)
RTE 10/405 SEP	53-1628	740	1%	8
SAWTELLE BLVD UC	53-0939	270	1%	3

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

DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

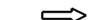
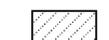
BRIDGE NO. Various  
POST MILE Varies

**ROUTE 10 BRIDGES  
GENERAL PLAN NO. 7**

USERNAME => s129239 DATE PLOTTED => 14-NOV-2011 TIME PLOTTED => 07:39

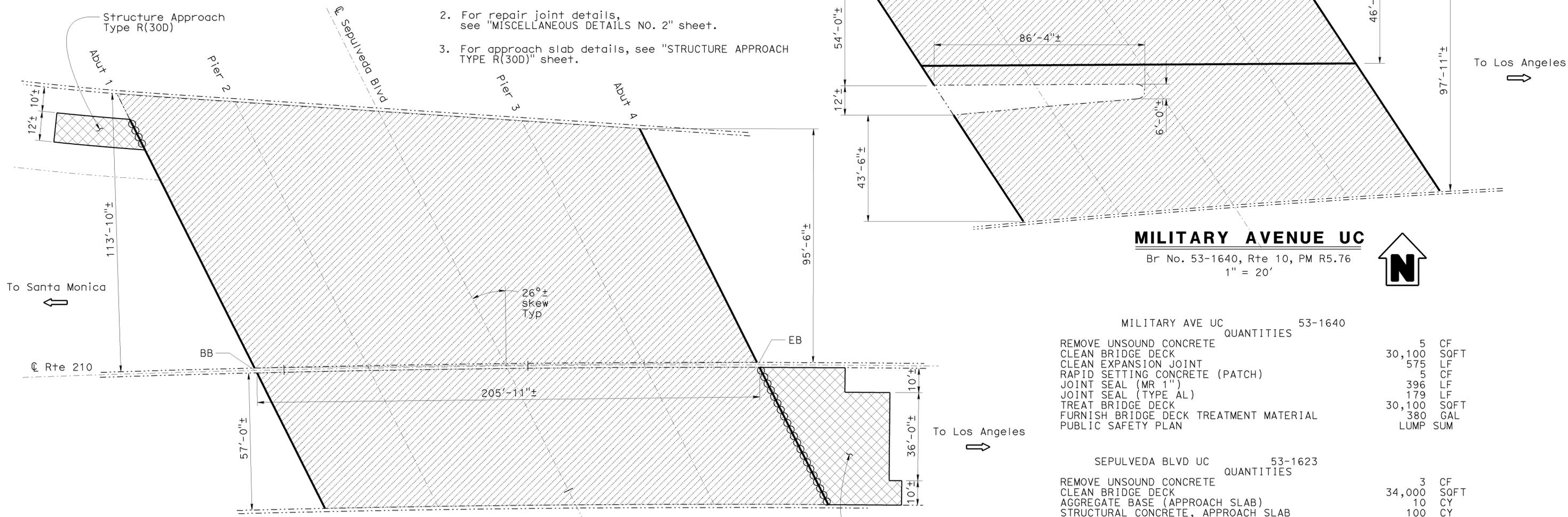
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	32	51
 REGISTERED CIVIL ENGINEER DATE 08/25/11					
12-12-11 PLANS APPROVAL DATE					
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**LEGEND:**

-  Indicates existing.
-  Indicates direction of traffic.
-  Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.
-  Indicates limits of remove AC roadway and construct new structure approach slabs with paving notch extension.
-  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 placement of new joint seal. Prior to placement of new joint seal, repair joint spalls (where new approach slabs are replaced, no joint spall repair is required).

**NOTES:**

1. For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
2. For repair joint details, see "MISCELLANEOUS DETAILS NO. 2" sheet.
3. For approach slab details, see "STRUCTURE APPROACH TYPE R(30D)" sheet.



**MILITARY AVENUE UC**

Br No. 53-1640, Rte 10, PM R5.76  
1" = 20'



MILITARY AVE UC		53-1640	
QUANTITIES			
REMOVE UNSOUND CONCRETE	5	CF	
CLEAN BRIDGE DECK	30,100	SQFT	
CLEAN EXPANSION JOINT	575	LF	
RAPID SETTING CONCRETE (PATCH)	5	CF	
JOINT SEAL (MR 1")	396	LF	
JOINT SEAL (TYPE AL)	179	LF	
TREAT BRIDGE DECK	30,100	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	380	GAL	
PUBLIC SAFETY PLAN	LUMP	SUM	

**SEPULVEDA BLVD UC**

SEPULVEDA BLVD UC		53-1623	
QUANTITIES			
REMOVE UNSOUND CONCRETE	3	CF	
CLEAN BRIDGE DECK	34,000	SQFT	
AGGREGATE BASE (APPROACH SLAB)	10	CY	
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	100	CY	
PAVING NOTCH EXTENSION	60	CF	
CLEAN EXPANSION JOINT	286	LF	
RAPID SETTING CONCRETE (PATCH)	3	CF	
JOINT SEAL (MR 1 1/2")	361	LF	
TREAT BRIDGE DECK	34,000	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	425	GAL	
PUBLIC SAFETY PLAN	LUMP	SUM	

**SEPULVEDA BLVD UC**

Br No. 53-1623, Rte 10, PM R5.56  
1" = 20'



NOTE:  
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<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTE 10 BRIDGES</b> GENERAL PLAN NO. 8
	DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang			CHECKED Gerald Joo	
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez	CHECKED Jennifer Ramirez	PLANS AND SPECS COMPARED	Varies	REVISION DATES	SHEET 08 OF 27

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: X PROJECT NUMBER & PHASE: 0700001895 CONTRACT NO.: 4Y740 DISREGARD PRINTS BEARING EARLIER REVISION DATES 02-01-11

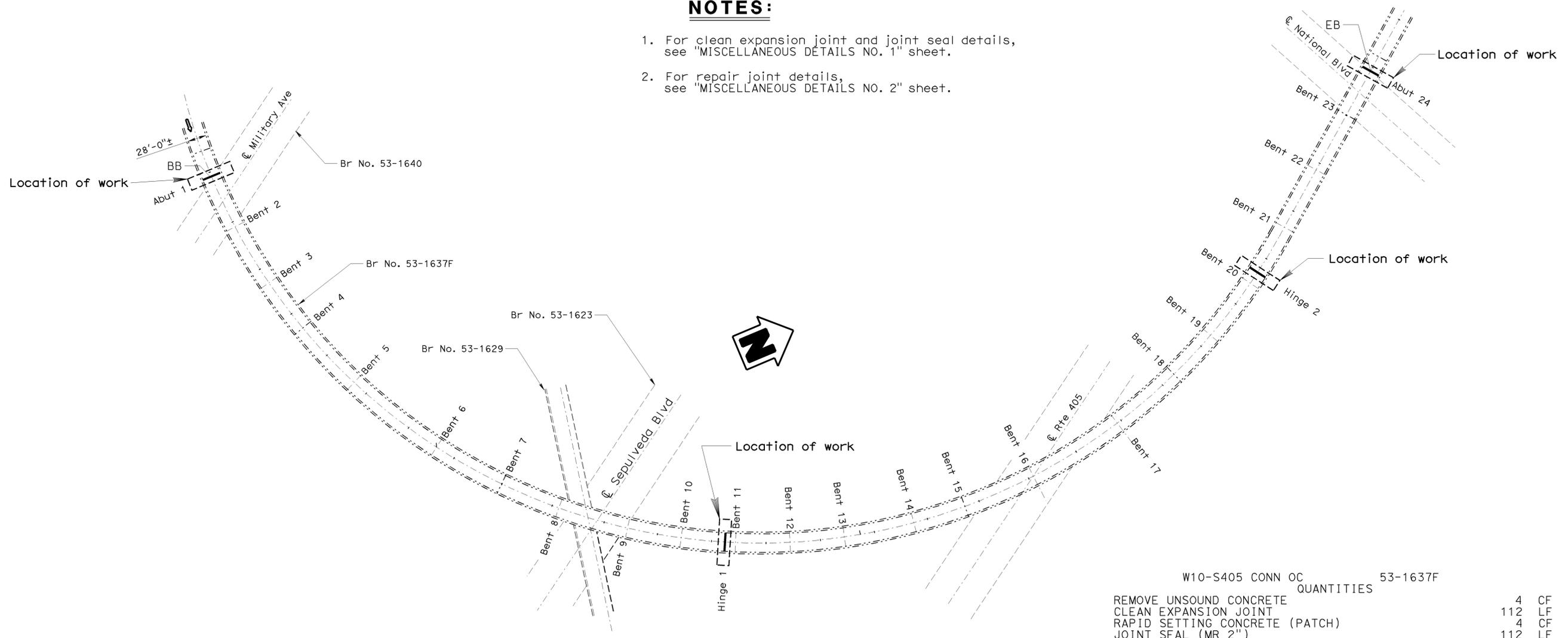
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	33	51
 REGISTERED CIVIL ENGINEER DATE 08/25/11					
12-12-11 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies 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.

**NOTES:**

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



W10-S405 CONN OC	QUANTITIES	53-1637F
REMOVE UNSOUND CONCRETE	4	CF
CLEAN EXPANSION JOINT	112	LF
RAPID SETTING CONCRETE (PATCH)	4	CF
JOINT SEAL (MR 2")	112	LF

**W10-S405 CONNECTOR OC**

Br No. 53-1637F, Rte 10, PM R5.65  
1" = 100'

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

TONY D. BRAKE  
DESIGN ENGINEER

DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez
				CHECKED Gerald Joo
				PLANS AND SPECS COMPARED Jennifer Ramirez

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

**ROUTE 10 BRIDGES  
GENERAL PLAN NO. 9**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: X  
PROJECT NUMBER & PHASE: 0700001895

CONTRACT NO.: 4Y740

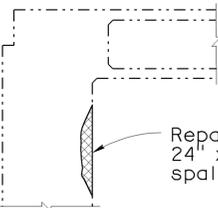
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
02-01-11	09	27

COVENTRY PLACE UC 53-1634  
QUANTITIES

REMOVE UNSOUND CONCRETE  
CLEAN BRIDGE DECK  
CLEAN EXPANSION JOINT  
RAPID SETTING CONCRETE (PATCH)  
REPAIR SPALLED SURFACE AREA  
JOINT SEAL (MR 1")  
TREAT BRIDGE DECK  
FURNISH BRIDGE DECK TREATMENT MATERIAL  
PUBLIC SAFETY PLAN

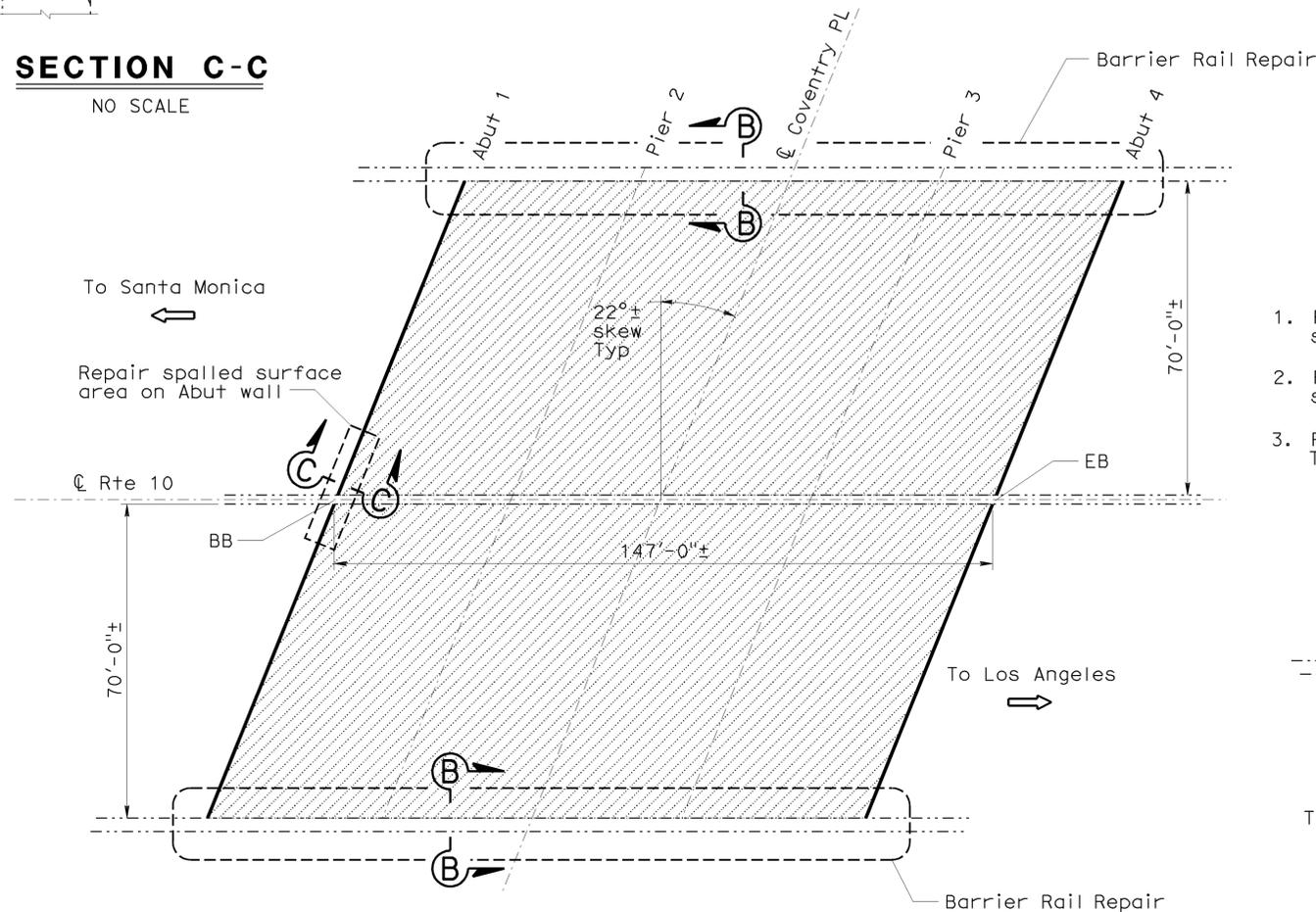
3 CF  
20,600 SQFT  
302 LF  
3 CF  
5 SQFT  
302 LF  
20,600 SQFT  
260 GAL  
LUMP SUM



Repair  
24" x 12" x 6" deep  
spalled surface area

**SECTION C-C**

NO SCALE

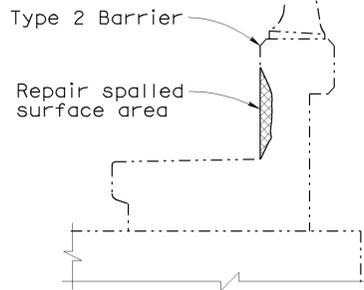


**COVENTRY PLACE UC**

Br No. 53-1634, Rte 10, PM R5.99  
1" = 20'



BARRIER RAIL REPAIR				
BRIDGE NAME	BRIDGE NUMBER	BARRIER AREA (SQ-FT)	APPROX AREA DAMAGED	REPAIR SPALLED SURFACE AREA (SQ-FT)
COVENTRY PLACE UC	53-1634	450	1%	5



**SECTION B-B**

NO SCALE

**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
- [Hatched Box] Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.
- [Cross-hatched Box] Indicates limits of remove AC roadway and construct new structure approach slabs with paving notch extension.
- 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 placement of new joint seal. Prior to placement of new joint seal, repair joint spalls (where new approach slabs are replaced, no joint spall repair is required).

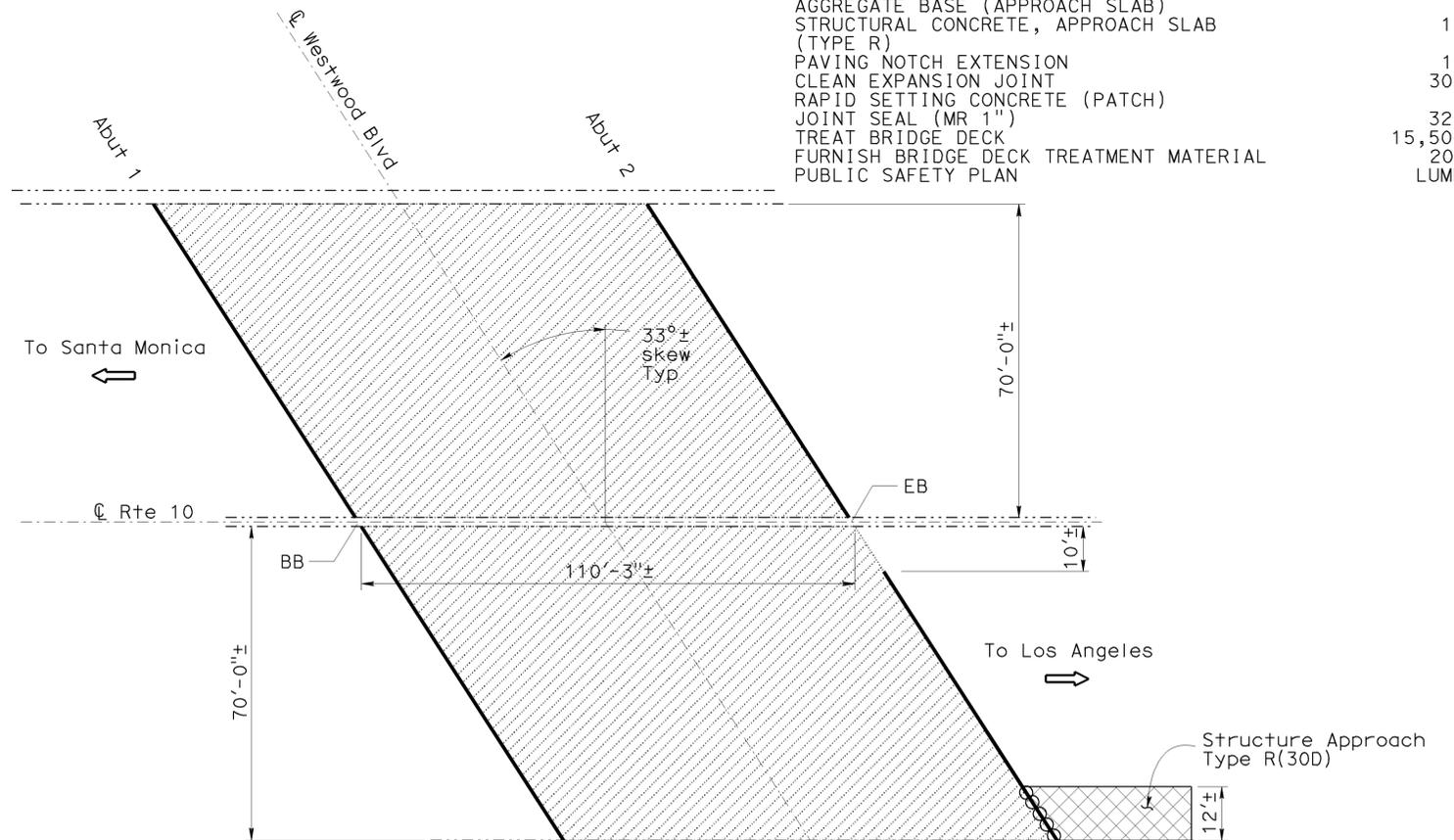
**NOTES:**

1. For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
2. For repair joint details, see "MISCELLANEOUS DETAILS NO. 2" sheet.
3. For approach slab details, see "STRUCTURE APPROACH TYPE R(30D)" sheet.

WESTWOOD BLVD UC 53-1617  
QUANTITIES

REMOVE UNSOUND CONCRETE  
CLEAN BRIDGE DECK  
AGGREGATE BASE (APPROACH SLAB)  
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)  
PAVING NOTCH EXTENSION  
CLEAN EXPANSION JOINT  
RAPID SETTING CONCRETE (PATCH)  
JOINT SEAL (MR 1")  
TREAT BRIDGE DECK  
FURNISH BRIDGE DECK TREATMENT MATERIAL  
PUBLIC SAFETY PLAN

3 CF  
15,500 SQFT  
2 CY  
18 CY  
15 CF  
308 LF  
3 CF  
322 LF  
15,500 SQFT  
200 GAL  
LUMP SUM



**WESTWOOD BLVD UC**

Br No. 53-1617, Rte 10, PM R6.12  
1" = 20'



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

DESIGN	BY	Gerald Joo	CHECKED	HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD					
	DETAILS	BY	Tom Dang	CHECKED			HongTien Tran	BY	Tom Dang	CHECKED	Gerald Joo
	QUANTITIES	BY	Gerald Joo	CHECKED			HongTien Tran	SPECIFICATIONS	BY	Jennifer Ramirez	CHECKED

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

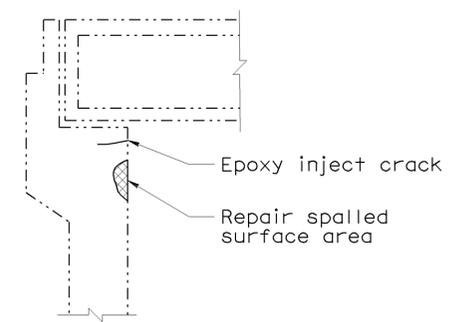
ROUTE 10 BRIDGES	
GENERAL PLAN NO. 10	
REVISION DATES	SHEET 10 OF 27

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	35	51

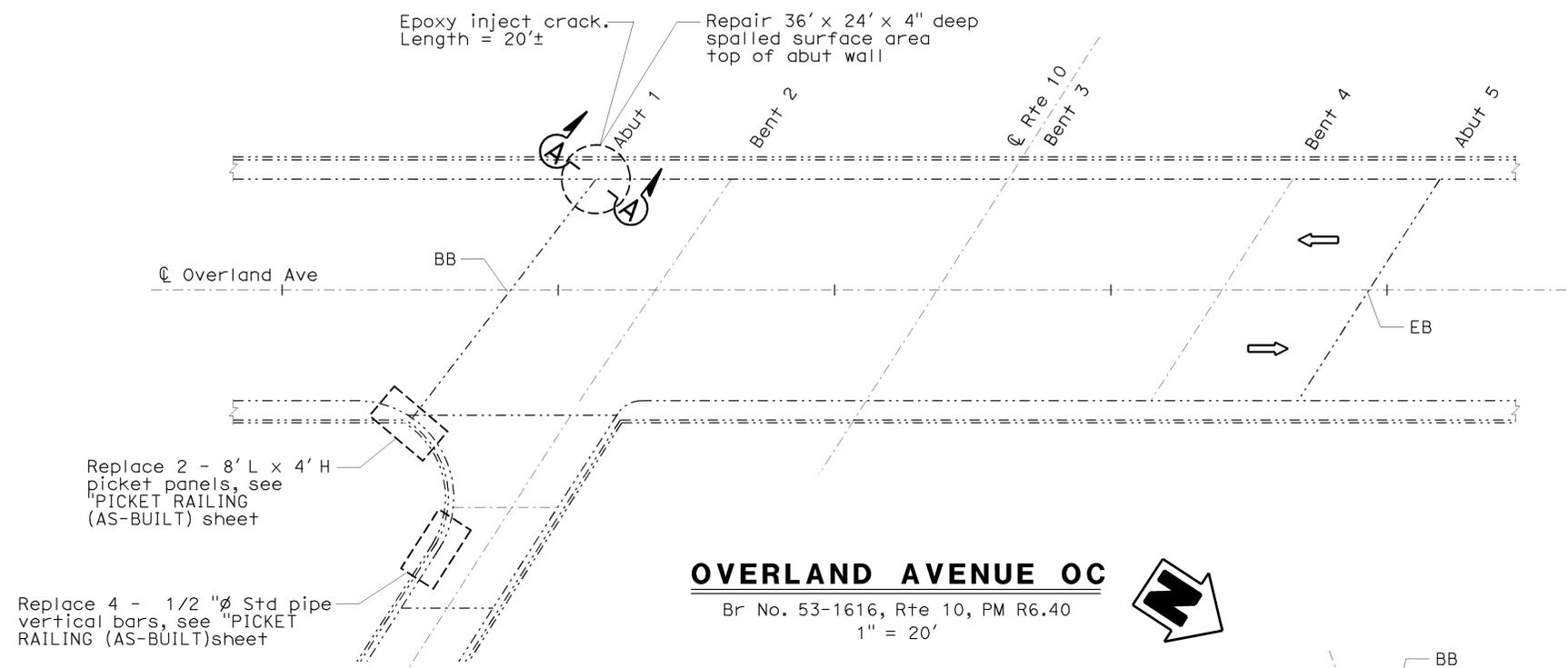
08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA  
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OVERLAND AVE OC 53-1616  
 QUANTITIES  
 INJECT CRACK (EPOXY) 20 LF  
 REPAIR SPALLED SURFACE AREA 6 SQFT  
 PICKET RAILING 24 LF

Epoxy inject crack.  
 Length = 20'±  
 Repair 36' x 24' x 4" deep  
 spalled surface area  
 top of abut wall



**SECTION A-A**  
 NO SCALE

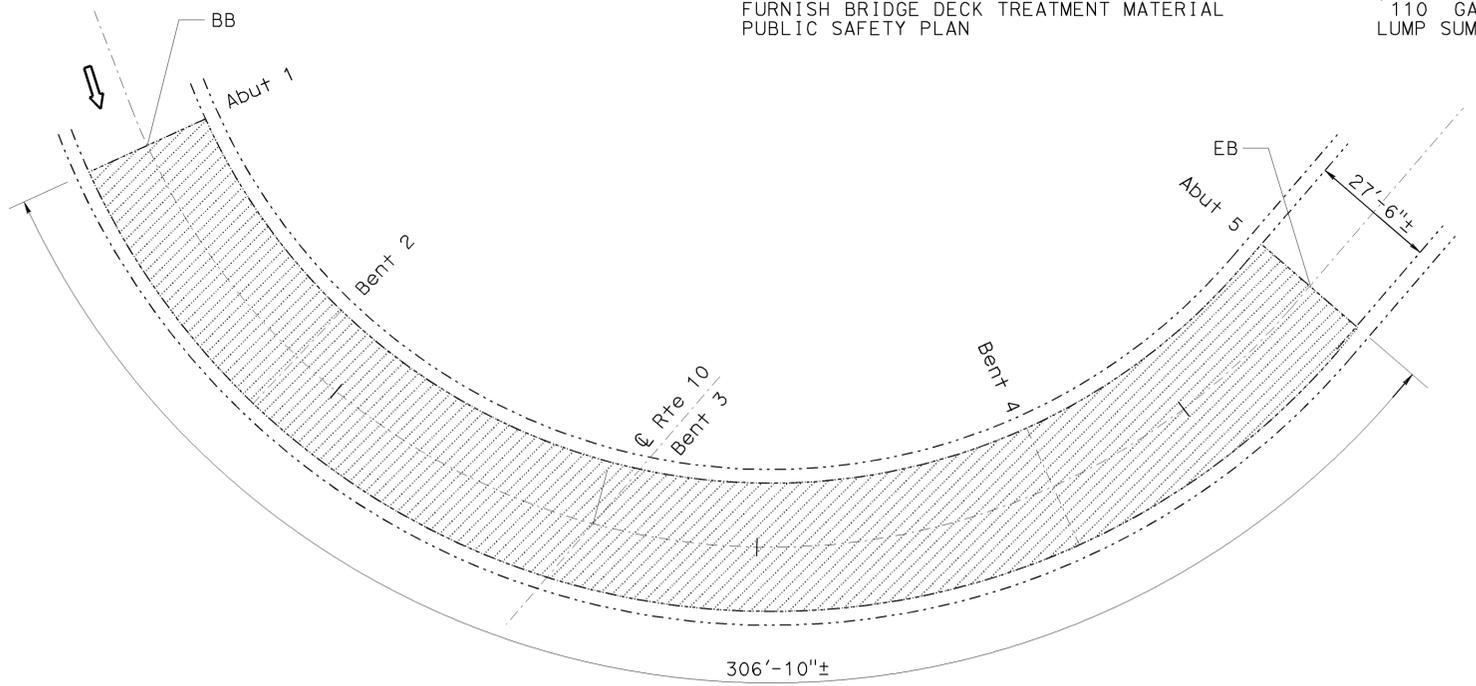


**OVERLAND AVENUE OC**

Br No. 53-1616, Rte 10, PM R6.40  
 1" = 20'



MANNING AVE ON-RAMP OC 53-1553S  
 QUANTITIES  
 CLEAN BRIDGE DECK 8,500 SQFT  
 TREAT BRIDGE DECK 8,500 SQFT  
 FURNISH BRIDGE DECK TREATMENT MATERIAL 110 GAL  
 PUBLIC SAFETY PLAN LUMP SUM



**MANNING AVE ON-RAMP OC**

Br No. 53-1553S, Rte 10, PM R7.08  
 1" = 20'



**LEGEND:**

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

**NOTES:**

- For picket panel and picket railing details, see "PICKET RAILING (AS-BUILT) sheet."

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED HongTien 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 10 BRIDGES GENERAL PLAN NO. 11
	DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang			CHECKED Gerald Joo	
	QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez	CHECKED Jennifer Ramirez	Varies		

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 UNIT: X PROJECT NUMBER & PHASE: 0700001895 CONTRACT NO.: 4Y740  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 REVISION DATES: 09-28-11 SHEET 11 OF 27  
 FILE => 07-4y7401-a-gp11.dgn

USERNAME => s129239 DATE PLOTTED => 14-NOV-2011 TIME PLOTTED => 07:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	36	51

08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

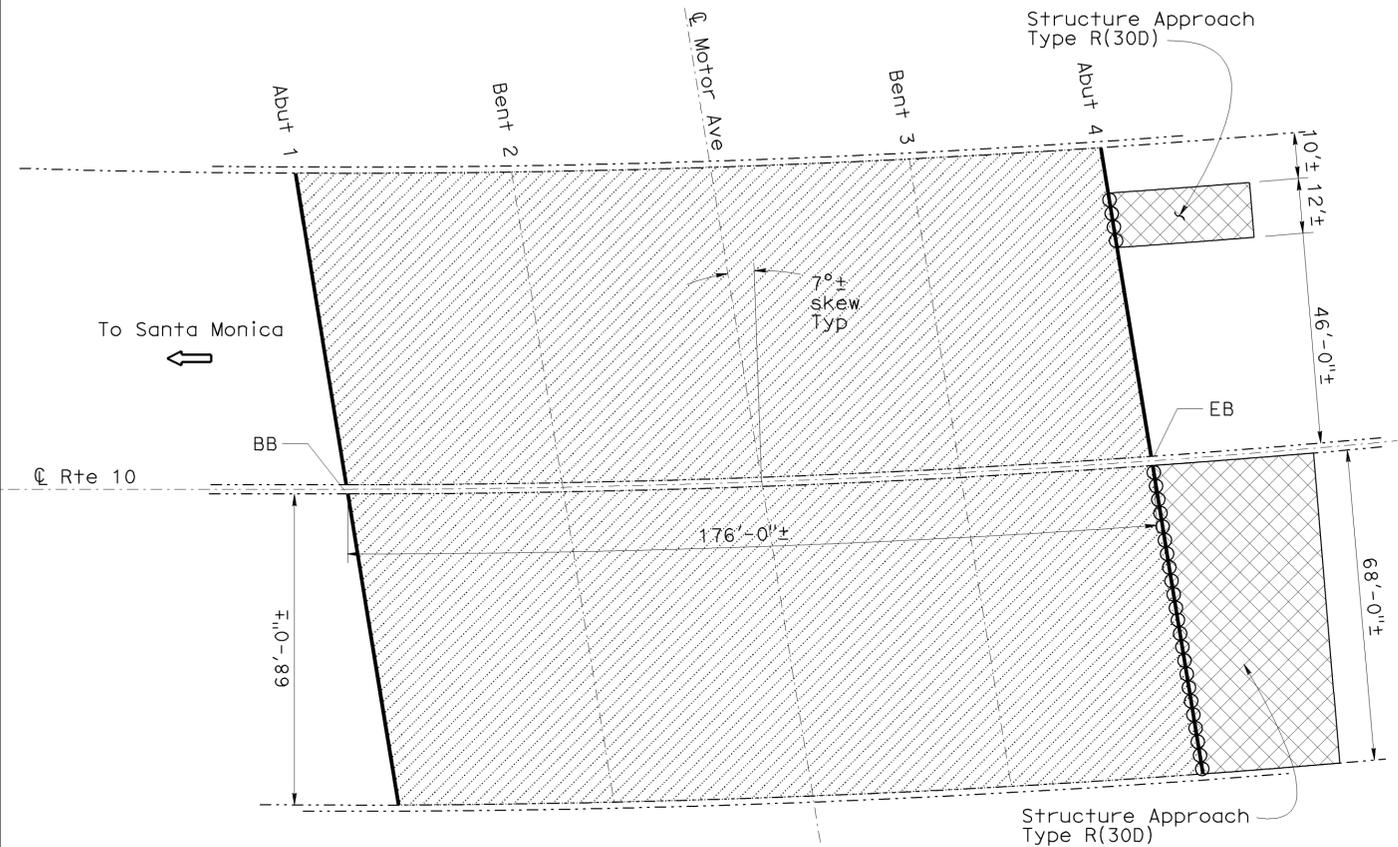
MOTOR AVE UC 53-1552

QUANTITIES

REMOVE UNSOUND CONCRETE	4	CF
CLEAN BRIDGE DECK	24,000	SQFT
AGGREGATE BASE (APPROACH SLAB)	15	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	105	CY
PAVING NOTCH EXTENSION	65	CF
CLEAN EXPANSION JOINT	195	LF
RAPID SETTING CONCRETE (PATCH)	4	CF
JOINT SEAL (MR 1")	276	LF
TREAT BRIDGE DECK	24,000	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	300	GAL
PUBLIC SAFETY PLAN		LUMP SUM

**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
- [Hatched Box] Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.
- [Cross-hatched Box] Indicates limits of remove AC roadway and construct new structure approach slabs with paving notch extension.
- /--- 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 new joint seal. Prior to placement of new joint seal, repair joint spalls (where new approach slabs are replaced, no joint spall repair is required).

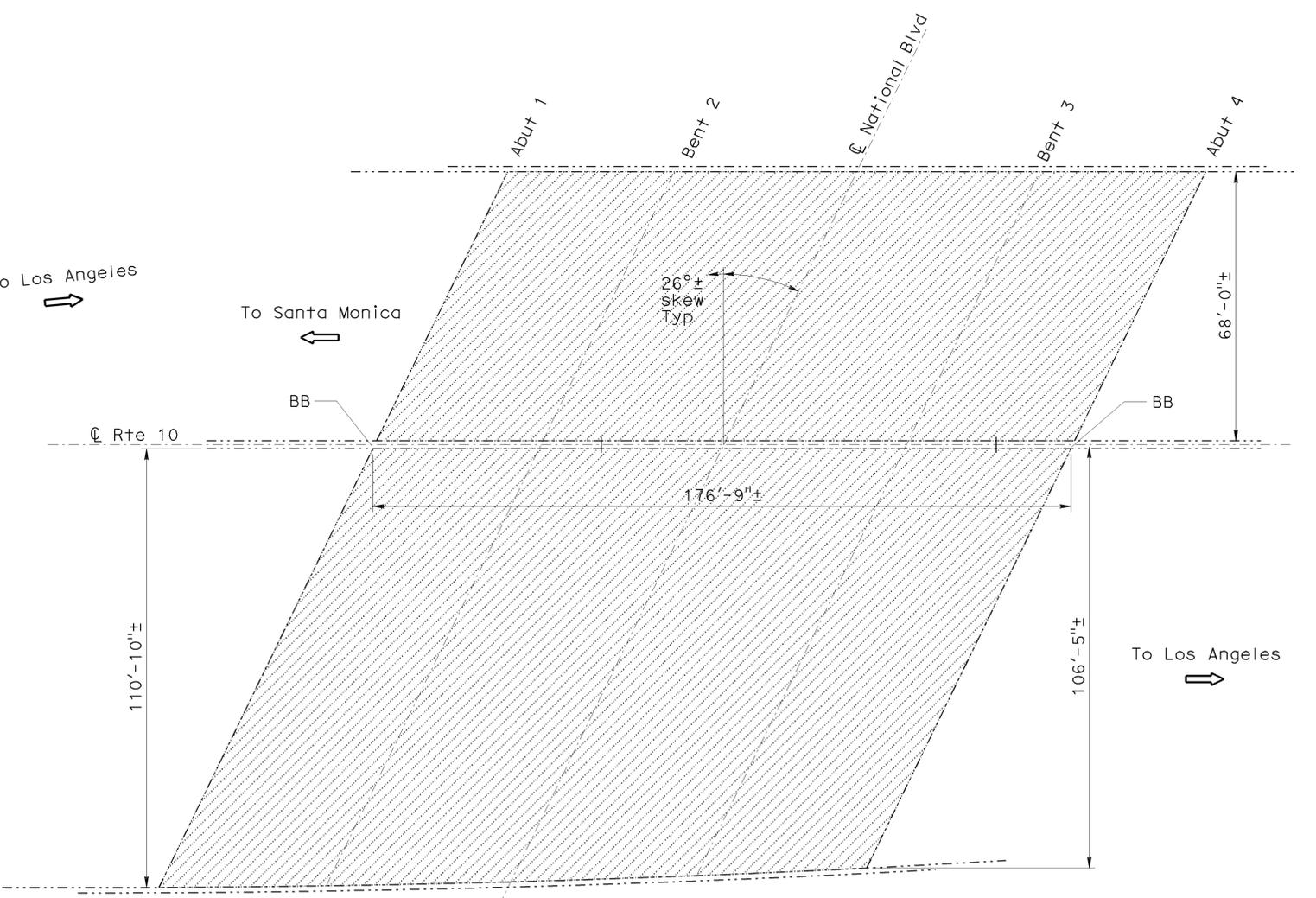


**MOTOR AVENUE UC**  
 Br No. 53-1552, Rte 10, PM R6.74  
 1" = 20'

**NOTES:**

- For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For repair joint details, see "MISCELLANEOUS DETAILS NO. 2" sheet.
- For approach slab details, see "STRUCTURE APPROACH TYPE R(30D)" sheet.

NOTE:  
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**NATIONAL BLVD UC**  
 Br No. 53-1554, Rte 10, PM R7.21  
 1" = 20'

NATIONAL BLVD UC 53-1554

QUANTITIES

CLEAN BRIDGE DECK	32,000	SOFT
TREAT BRIDGE DECK	32,000	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	400	GAL
PUBLIC SAFETY PLAN		LUMP SUM

DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Varies

**ROUTE 10 BRIDGES**  
**GENERAL PLAN NO. 12**

REVISION DATES SHEET OF  
 02-01-11 12 25

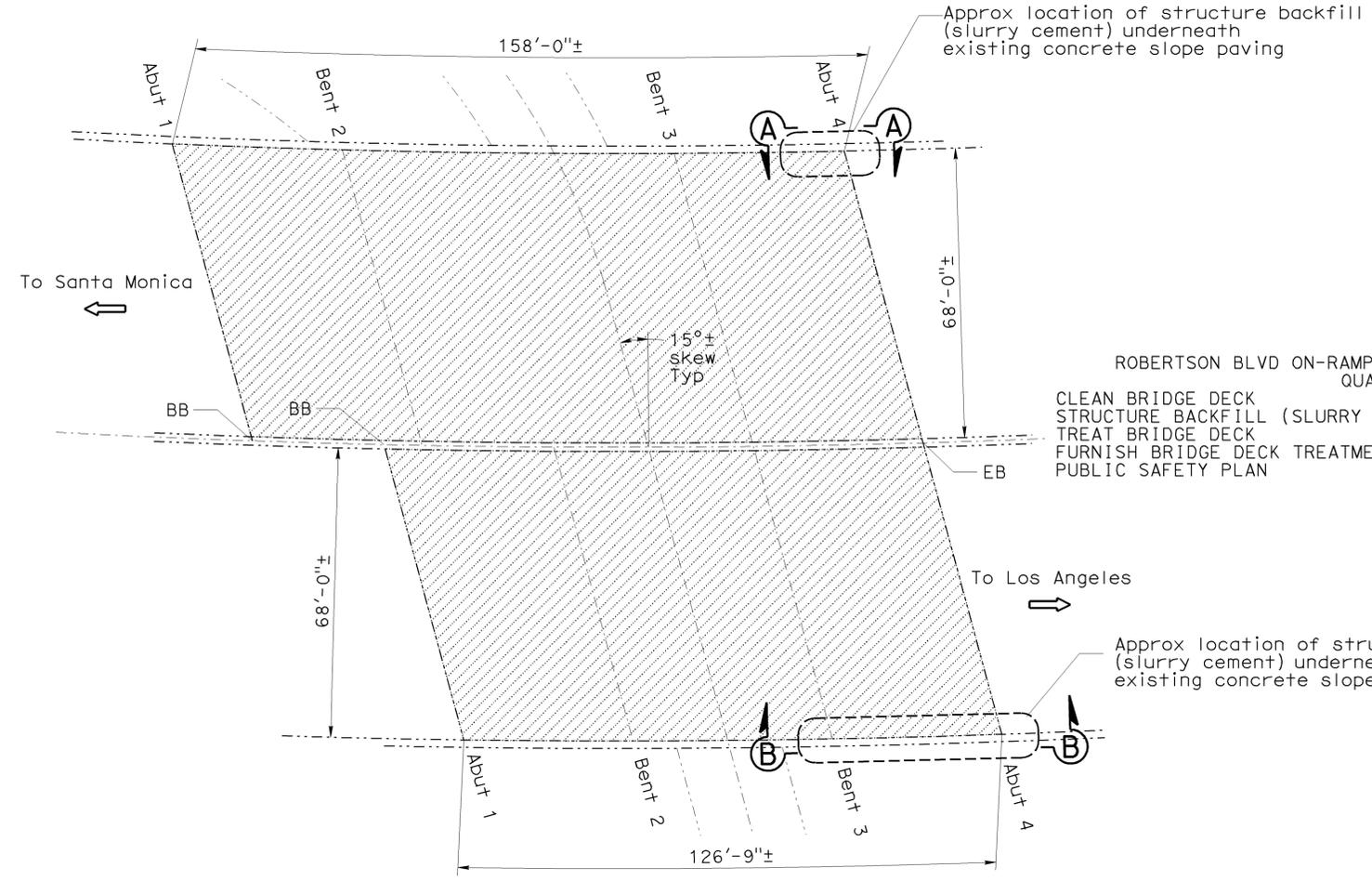
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	37	51

08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

**LEGEND:**

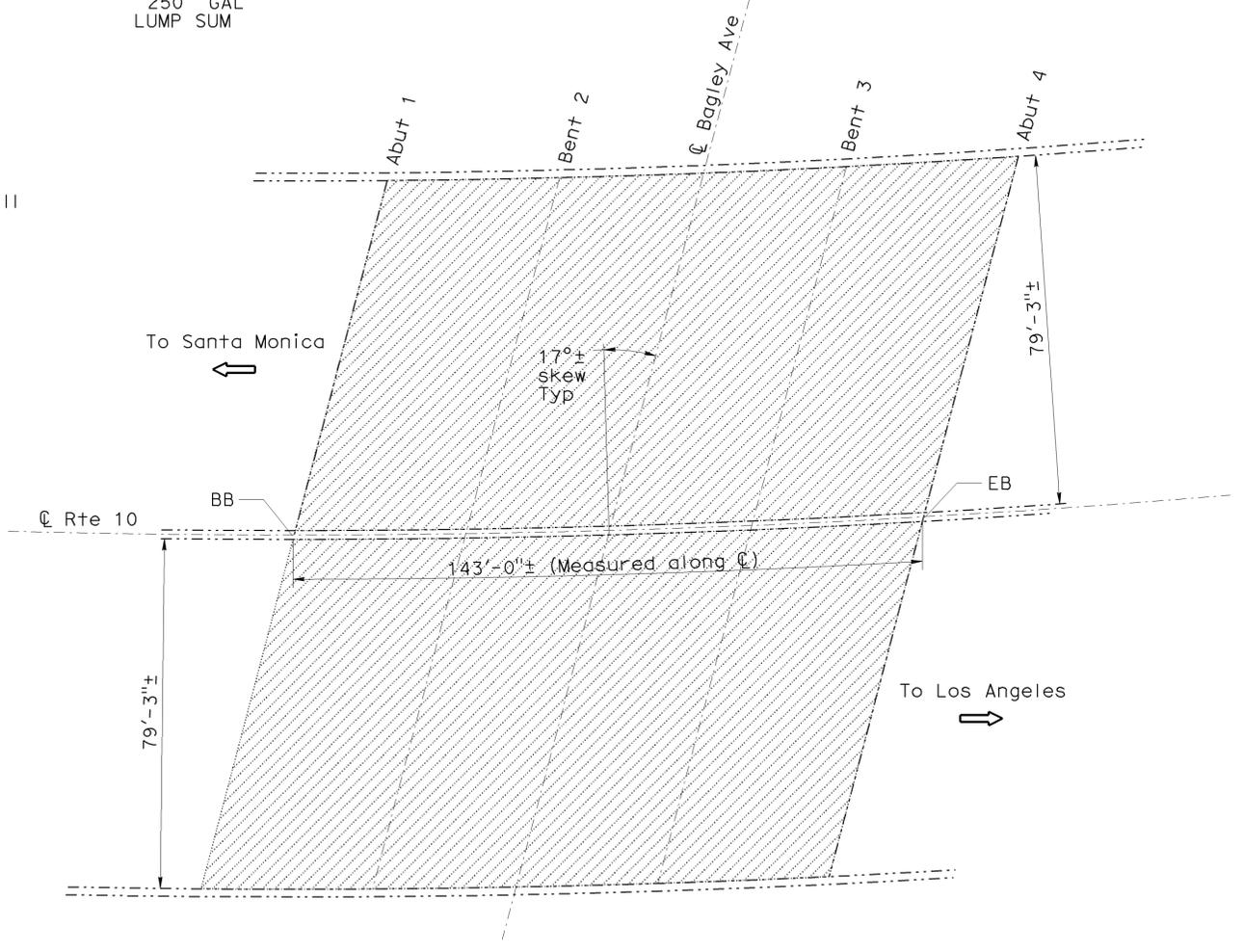
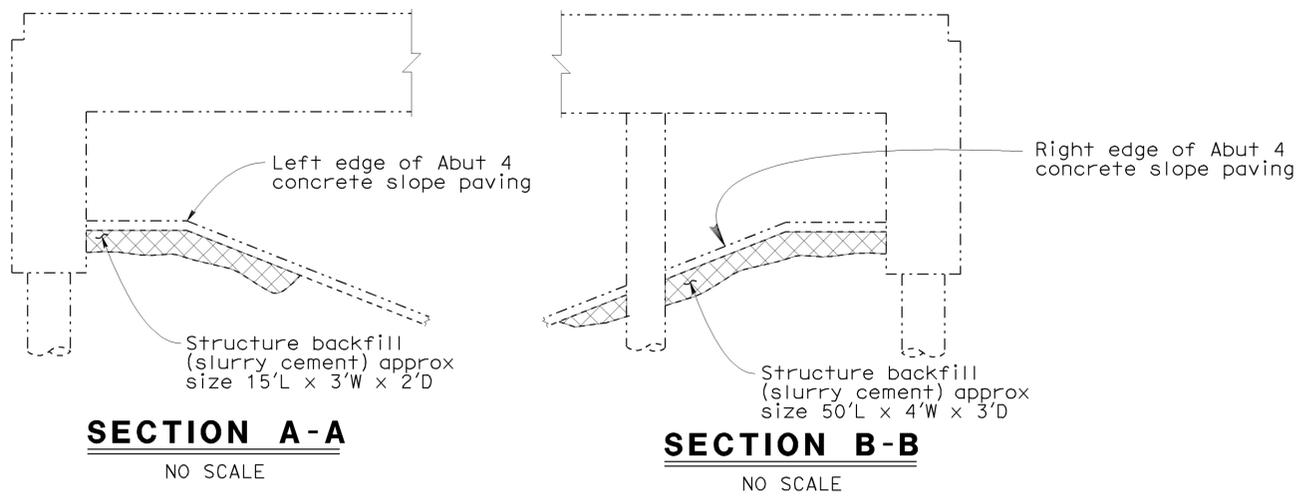
- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.
- ▩ Indicates approximate limits of slurry backfill (slurry cement).

20,000	SQFT
30	CY
20,000	SQFT
250	GAL
	LUMP SUM



ROBERTSON BLVD ON-RAMP UC 53-1556  
 QUANTITIES  
 CLEAN BRIDGE DECK  
 STRUCTURE BACKFILL (SLURRY CEMENT)  
 TREAT BRIDGE DECK  
 FURNISH BRIDGE DECK TREATMENT MATERIAL  
 PUBLIC SAFETY PLAN

**ROBERTSON BLVD ON-RAMP UC**  
 Br No. 53-1556, Rte 10, PM R7.83  
 1" = 20'



**BAGLEY AVENUE UC**  
 Br No. 53-1555, Rte 10, PM R7.58  
 1" = 20'

BAGLEY AVE UC	53-1555
QUANTITIES	
CLEAN BRIDGE DECK	23,000 SQFT
TREAT BRIDGE DECK	23,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	290 GAL
PUBLIC SAFETY PLAN	LUMP SUM

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

DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Varies

ROUTE 10 BRIDGES  
 GENERAL PLAN NO. 13

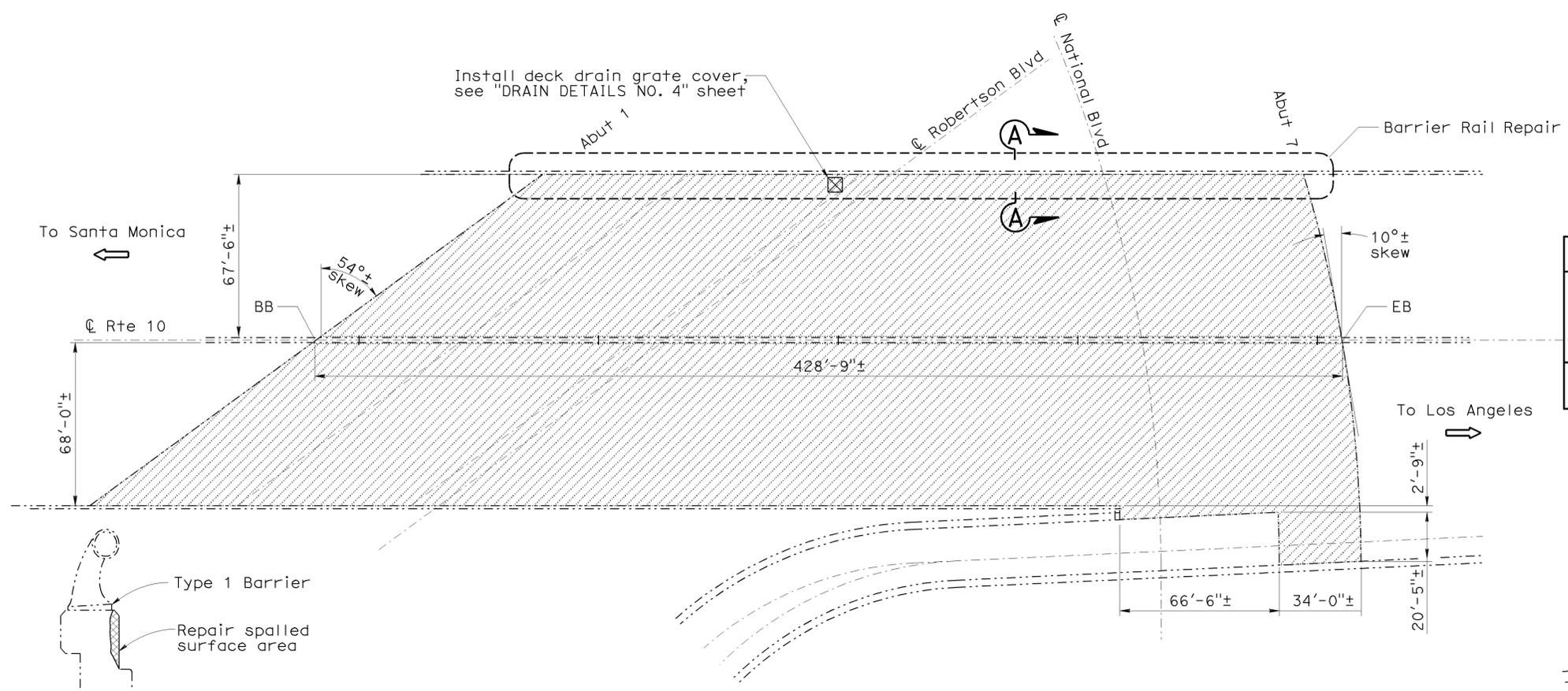
REVISION DATES

02-01-11			
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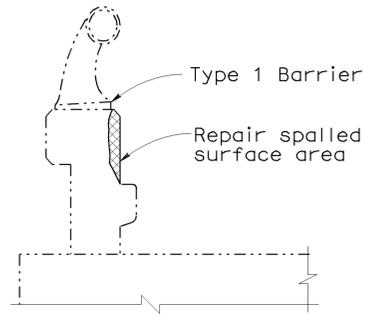
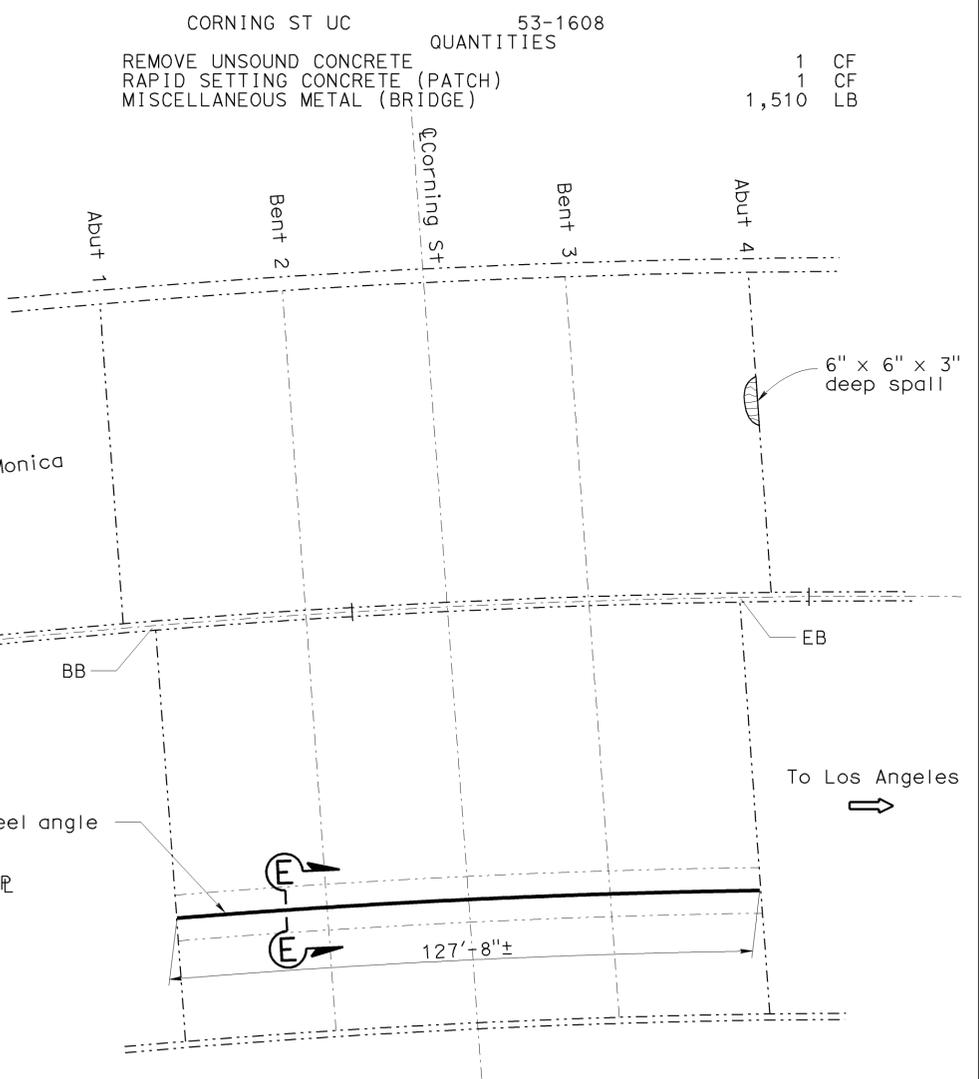
SHEET 13 OF 27

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	38	51

08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA  
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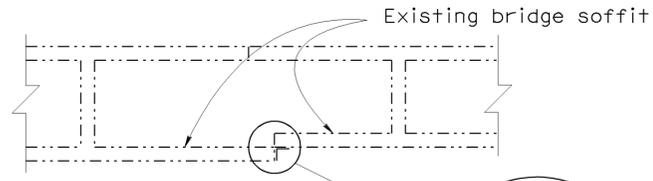


BARRIER RAIL REPAIR				
BRIDGE NAME	BRIDGE NUMBER	BARRIER AREA (SQ-FT)	APPROX AREA DAMAGED	REPAIR SPALLED SURFACE AREA (SQ-FT)
ROBERTSON & NATIONAL UC	53-1557	430	1%	5



**SECTION A-A**  
NO SCALE

**ROBERTSON & NATIONAL UC**  
Br No. 53-1557, Rte 10, PM R7.92  
1" = 30'



**PARTIAL SECTION E-E**  
NO SCALE

**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.
- ⊠ Indicates approximate location of existing deck drain and place new deck drain cover (18" x 18"±).
- ▤ Indicates removal of unsound concrete and place rapid setting concrete patch. Actual area may vary and will be determined by the Engineer.

NOTE:  
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ROBERTSON & NATIONAL UC 53-1557		QUANTITIES	
CLEAN BRIDGE DECK	60,000	SQFT	
REPAIR SPALLED SURFACE AREA	5	SQFT	
TREAT BRIDGE DECK	60,000	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	750	GAL	
PUBLIC SAFETY PLAN	LUMP	SUM	
MISCELLANEOUS METAL (BRIDGE)	70	LB	

**CORNING STREET UC**  
Br No. 53-1608, Rte 10, PM R8.65  
1" = 20'

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.	ROUTE 10 BRIDGES GENERAL PLAN NO. 14	
	DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang		CHECKED Gerald Joo	STRUCTURE MAINTENANCE DESIGN		Various
	QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez		CHECKED Jennifer Ramirez	PLANS AND SPECS COMPARED		Varies

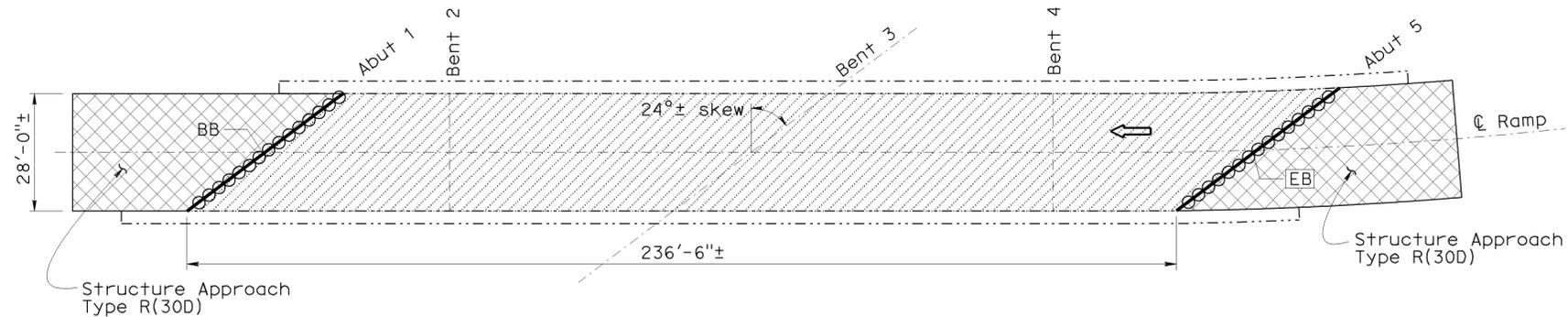
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	39	51

08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA  
 REGISTERED PROFESSIONAL ENGINEER  
 GERALD D. JOO

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**NOTES:**

1. For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
2. For repair joint details, see "MISCELLANEOUS DETAILS NO. 2" sheet.
3. For approach slab details, see "STRUCTURE APPROACH TYPE R(30D)" sheet.



CADILLAC RAMP SEP 53-1485F  
 QUANTITIES

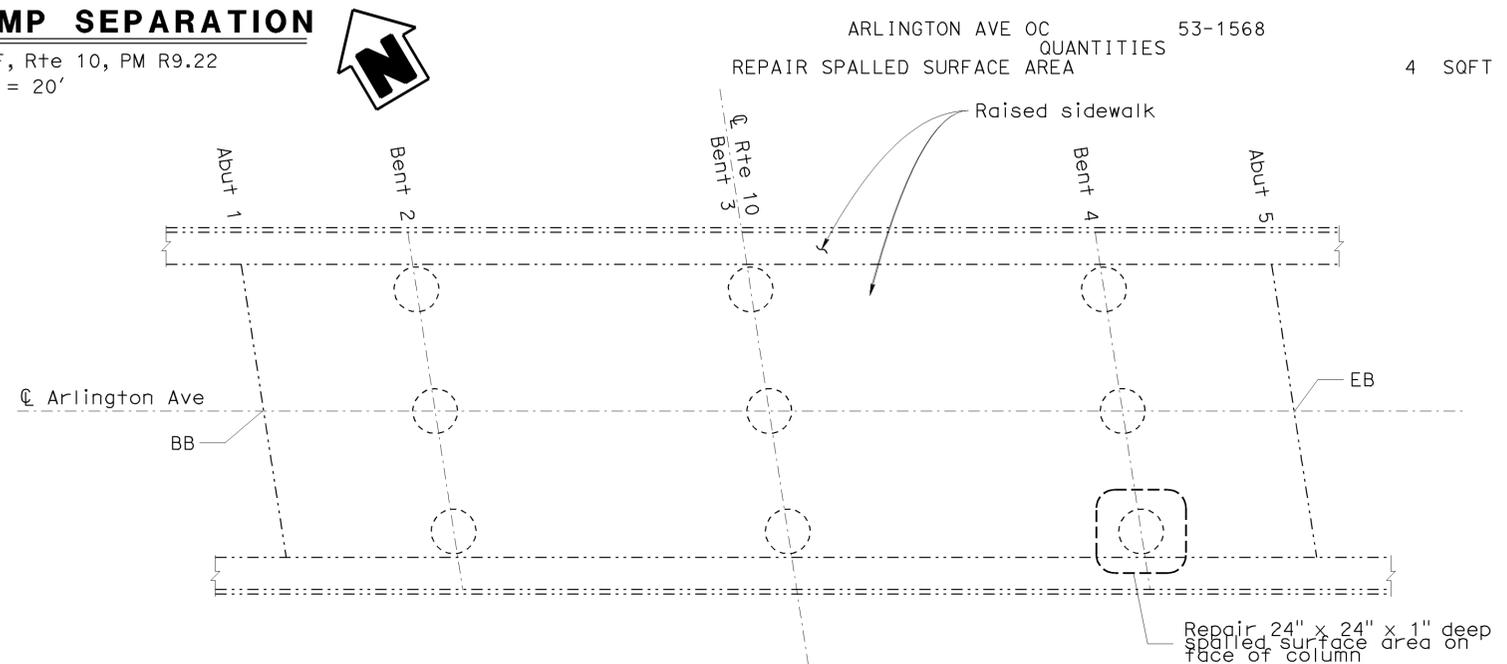
CLEAN BRIDGE DECK	6,700	SQFT
AGGREGATE BASE (APPROACH SLAB)	10	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	80	CY
PAVING NOTCH EXTENSION	50	CF
JOINT SEAL (MR 1")	62	LF
TREAT BRIDGE DECK	6,700	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	85	GAL
PUBLIC SAFETY PLAN		LUMP SUM

**CADILLAC RAMP SEPARATION**

Br No. 53-1485F, Rte 10, PM R9.22  
 1" = 20'

ARLINGTON AVE OC 53-1568  
 QUANTITIES

REPAIR SPALLED SURFACE AREA	4	SQFT
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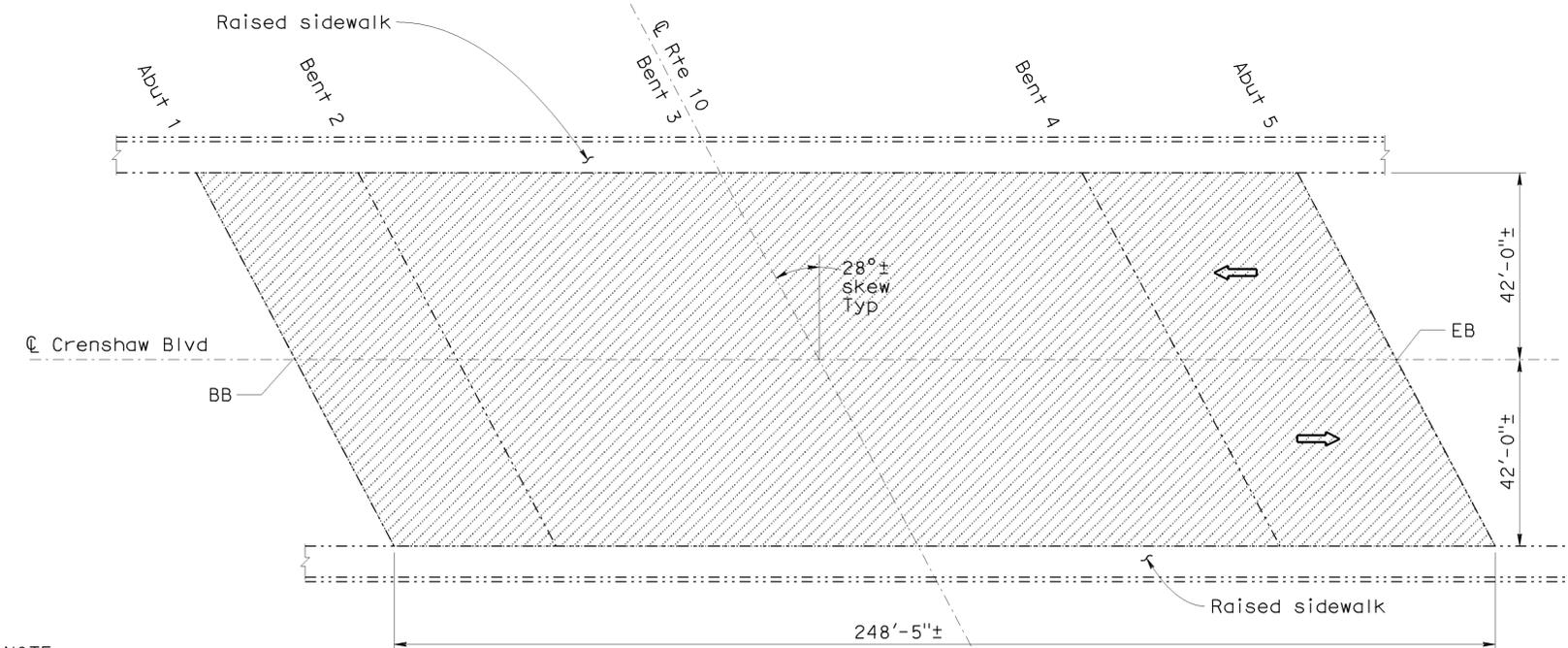


**ARLINGTON AVENUE OC**

Br No. 53-1568, Rte 10, PM R12.32  
 1" = 20'

CRENSHAW BLVD OC 53-1571  
 QUANTITIES

CLEAN BRIDGE DECK	21,000	SQFT
TREAT BRIDGE DECK	21,000	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	270	GAL
PUBLIC SAFETY PLAN		LUMP SUM



**CRENSHAW BLVD OC**

Br No. 53-1571, Rte 10, PM R11.39  
 1" = 20'

NOTE:  
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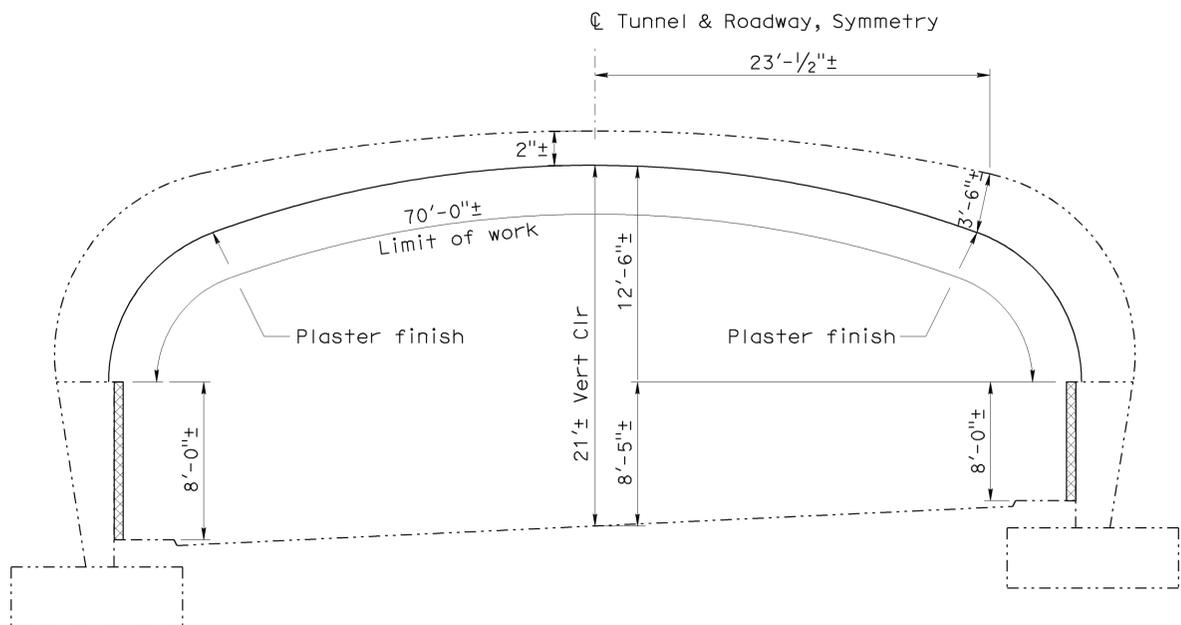
**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.
- ▩ Indicates limits of remove AC roadway and construct new structure approach slabs with paving notch extension.
- /— 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 placement of new joint seal. Prior to placement of new joint seal, repair joint spalls (where new approach slabs are replaced, no joint spall repair is required).

DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez

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

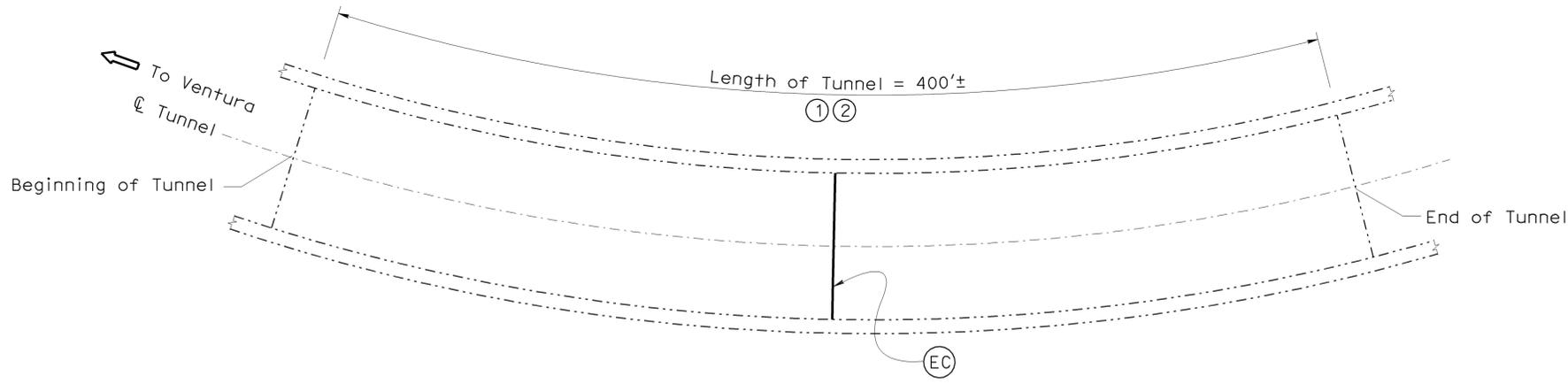
ROUTE 10 BRIDGES	
GENERAL PLAN NO. 15	
REVISION DATES	SHEET OF
02-01-11	15 27



**TYPICAL SECTION**  
NO SCALE

MCCLURE TUNNEL QUANTITIES 53-0008

INJECT CRACK (EPOXY)	70	LF
REPAIR SPALLED SURFACE AREA	280	SQFT
CLEAN CONCRETE	28,000	SQFT
PREPARE AND PAINT CONCRETE	28,000	SQFT

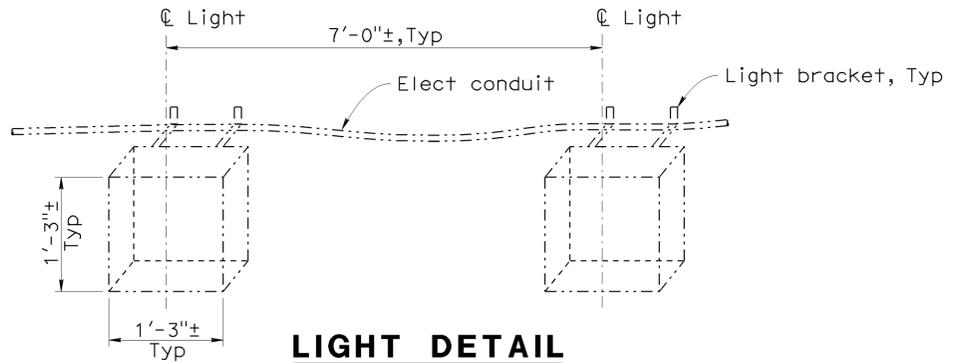


**MCCLURE TUNNEL**  
Br No. 53-0008, Rte 10, PM 35.17  
NO SCALE

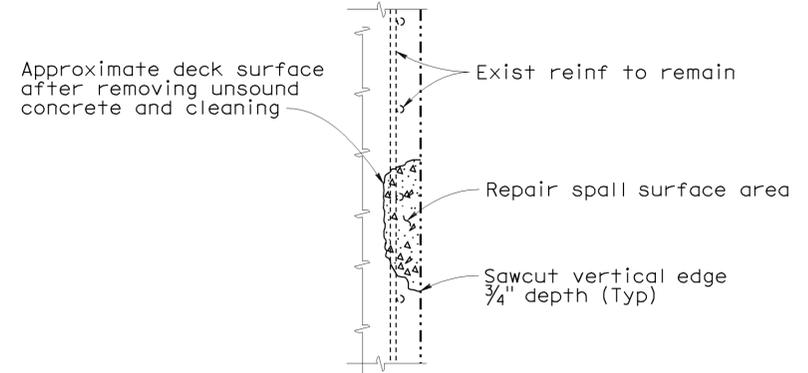
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

- LEGEND:**
- Indicates existing.
  - ➔ Indicates direction of traffic.
  - ▨ Indicates tile surface not to be painted.
  - (EC) Indicates approximate location of inject crack epoxy on tunnel ceiling.

- NOTES:**
- Clean and prepare concrete surface and paint. Epoxy crack injection along inside tunnel walls. Location to be determined by the Engineer. Prior to preparing concrete and after loose paint is removed, repair spalled surface area.
  - Cover and protect light fixtures while cleaning and painting concrete. Light fixtures are spaced approximately 7'± o.c., see "LIGHT DETAIL".



**LIGHT DETAIL**  
NO SCALE



**SPALLED SURFACE REPAIR DETAIL**

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

**REPAIR SPALLED SURFACE**

BRIDGE NUMBER	SURFACE AREA (SQ-FT)	APPROX AREA DAMAGED (PERCENT)	APPROX DEPTH DAMAGED (INCHES)
53-0008	28,000	1%	3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	41	51

08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE

No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA

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**LEGEND:**

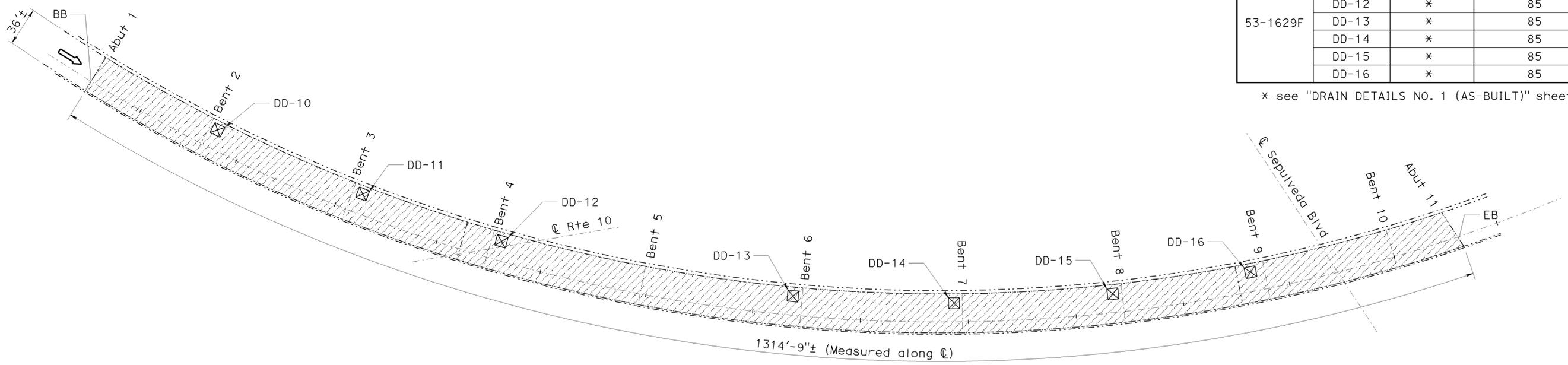
- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate.
- ⊗ Indicates approximate location of clean bridge deck drainage system.

S405-E10 CONN OC 53-1629F QUANTITIES

CLEAN BRIDGE DECK	48,000	SQFT
CLEAN BRIDGE DECK DRAINAGE SYSTEM	590	LF
TREAT BRIDGE DECK	48,000	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	600	GAL
PUBLIC SAFETY PLAN		LUMP SUM

DECK DRAIN CLEANING			
BRIDGE NUMBER	INLET ID	EXISTING DRAINAGE INLET TYPE	APPROX LENGTH OF CLEAN OUT (FT)
53-1629F	DD-10	*	80
	DD-11	*	85
	DD-12	*	85
	DD-13	*	85
	DD-14	*	85
	DD-15	*	85
	DD-16	*	85

\* see "DRAIN DETAILS NO. 1 (AS-BUILT)" sheet.



**S405-E10 CONNECTOR OC**

Br No. 53-1629F, Rte 405, PM 29.62  
1" = 50'

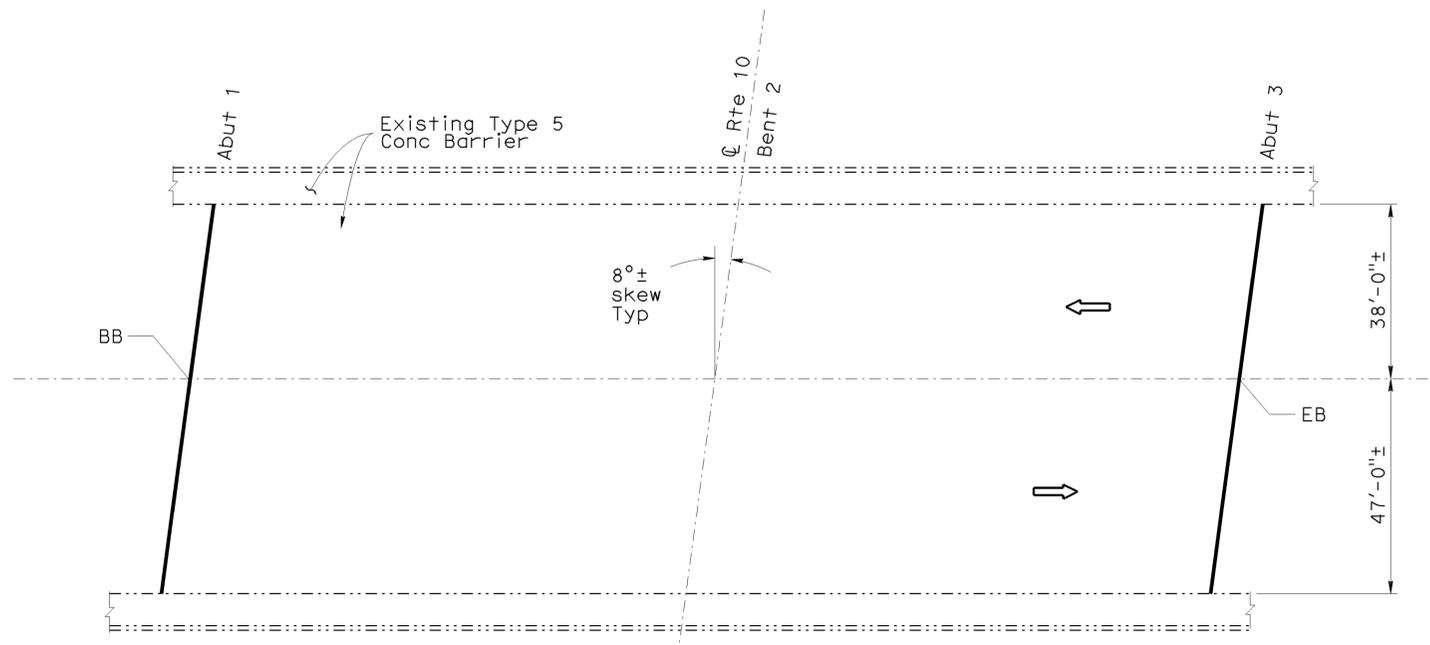


NOTE:  
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 10 BRIDGES GENERAL PLAN NO. 17	
	DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang			CHECKED Gerald Joo		POST MILE
	QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez			CHECKED Jennifer Ramirez		Varies

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: X PROJECT NUMBER & PHASE: 0700001895 CONTRACT NO.: 4Y740 DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES SHEET OF 17 27

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 10, 405	Var	42	51
 REGISTERED CIVIL ENGINEER DATE 08/25/11					
12-12-11 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>					



**ROUTE 1/10 SEPARATION**

Br No. 53-1594, Rte 10, PM R34.55  
1" = 20'



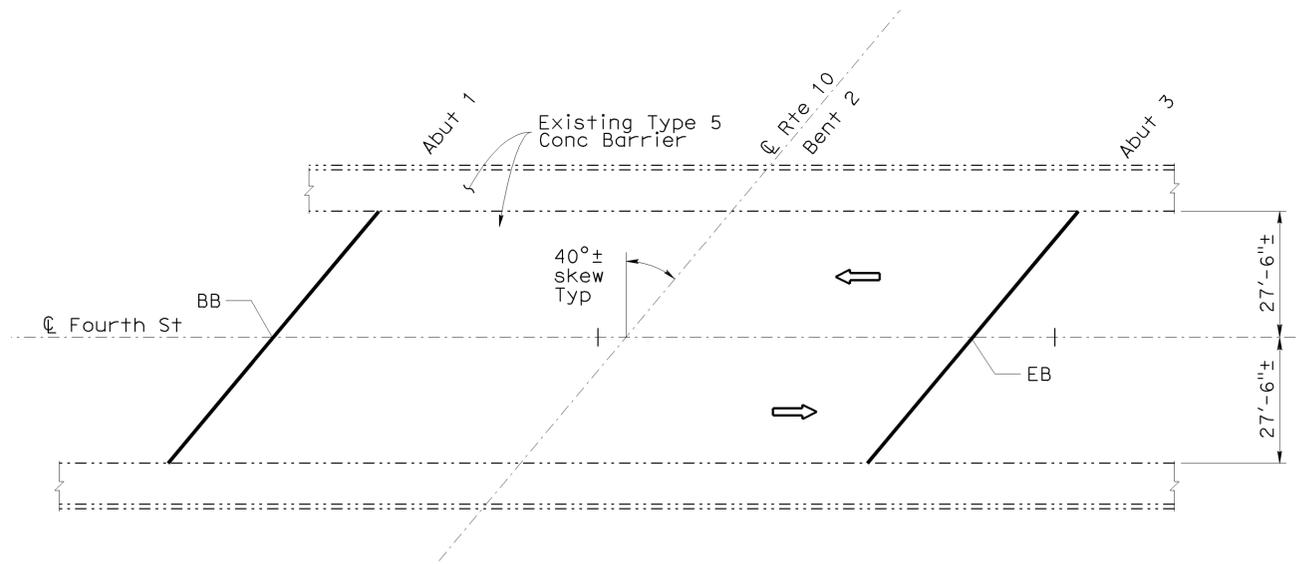
ROUTE 1/10 SEP	QUANTITIES	53-1594
REMOVE UNSOUND CONCRETE	2	CF
CLEAN EXPANSION JOINT	172	LF
RAPID SETTING CONCRETE (PATCH)	2	CF
JOINT SEAL (MR 1")	172	LF

**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.

**NOTES:**

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



**FOURTH STREET OC**

Br No. 53-1592, Rte 10, PM R34.89  
1" = 20'



NOTE:  
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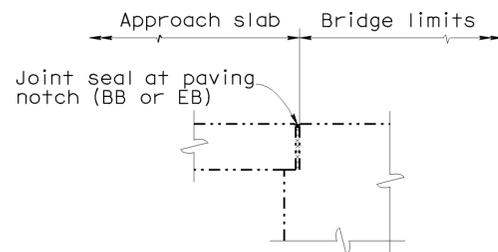
FOURTH ST OC	QUANTITIES	53-1592
REMOVE UNSOUND CONCRETE	2	CF
CLEAN EXPANSION JOINT	144	LF
RAPID SETTING CONCRETE (PATCH)	2	CF
JOINT SEAL (MR 1")	144	LF

DESIGN	BY Gerald Joo	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED HongTien Tran	LAYOUT	BY Tom Dang
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran	SPECIFICATIONS	BY Jennifer Ramirez

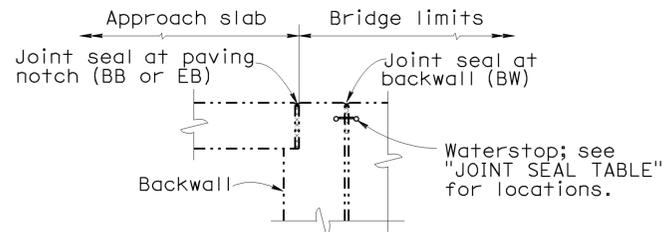
**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
STRUCTURE MAINTENANCE DESIGN

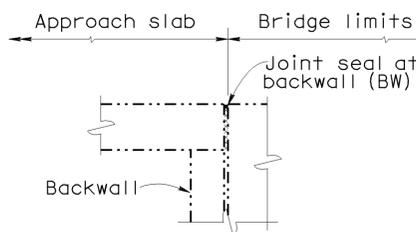
**ROUTE 10 BRIDGES**  
GENERAL PLAN NO. 18



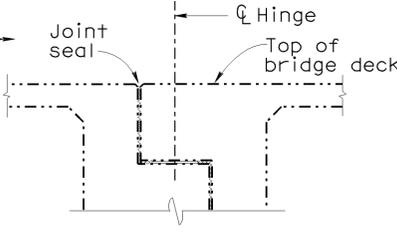
DIAPHRAGM ABUTMENT



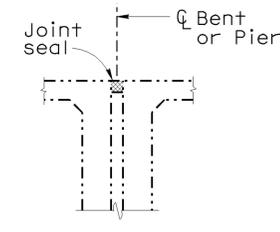
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

**JOINT SEAL LOCATION**

NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	43	51

REGISTERED CIVIL ENGINEER DATE 08/25/11  
 PLANS APPROVAL DATE 12-12-11  
 No. C65380 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA

JOINT SEAL TABLE									
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROX LENGTH (FT)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	REMOVE UNSOUND CONCRETE (CU FT)	RAPID SETTING CONCRETE (PATCH) (CU FT)	
14TH STREET OC	53-1596	ABUT 1	BW	1	60	YES	12	1	1
		ABUT 3	BW	1	60	YES	12	1	1
CLOVERFIELD BLVD OC	53-1599	ABUT 1	BW	1	96	YES	12	1	1
		ABUT 3	BW	1	83	YES	12	1	1
BUNDY DRIVE UC	53-1604	ABUT 1	PN	1	150	NO	12	1.5	1.5
		ABUT 4	PN	1	130	NO	12	1.5	1.5
GATEWAY BLVD UC	53-1620	ABUT 1	PN	1	158	NO	12	1.5	1.5
		ABUT 5	PN	1	158	NO	12	1.5	1.5
SAWTELLE BLVD UC	53-0939	ABUT 1	PN	1	127	NO	12	2.5	2.5
		ABUT 4	PN	1	132	NO	12	2.5	2.5
ROUTE 10/405 SEPARATION	53-1628	ABUT 1	PN	1 1/2	124	NO	12	1.5	1.5
		ABUT 5	PN	1 1/2	124	NO	12	1.5	1.5
SEPULVEDA BLVD UC	53-1623	ABUT 1	PN	1 1/2	191	NO	12	1.5	1.5
		ABUT 4	PN	1 1/2	170	NO	12	1.5	1.5
MILITARY AVENUE UC	53-1640	ABUT 1	PN	1	198	NO	12	2	2
		ABUT 4	PN	1	198	NO	12	2	2
		-	DJ	AL	179	NO	12	1	1
W10-S405 CONNECTOR OC	53-1637F	ABUT 1	PN	2	28	NO	12	1	1
		HINGE 1	DJ	2	28	YES	12	1	1
		HINGE 2	DJ	2	28	YES	12	1	1
		HINGE 4	PN	2	28	NO	12	1	1
COVENTRY PLACE UC	53-1634	ABUT 1	PN	1	151	NO	12	1.5	1.5
		ABUT 4	PN	1	151	NO	12	1.5	1.5
WESTWOOD BLVD UC	53-1617	ABUT 1	PN	1	167	NO	12	1.5	1.5
		ABUT 2	PN	1	155	NO	12	1.5	1.5
MOTOR AVENUE UC	53-1552	ABUT 1	PN	1	69	NO	12	1	1
		ABUT 4	PN	1	69	NO	12	1	1
		ABUT 4	PN	1	69	NO	12	1	1
FOURTH STREET OC	53-1592	ABUT 1	PN	1	72	NO	12	1	1
		ABUT 3	PN	1	72	NO	12	1	1
ROUTE 1/10 SEPARATION	53-1594	ABUT 1	PN	1	86	NO	12	1	1
		ABUT 3	PN	1	86	NO	12	1	1
CADILLAC RAMP SEPARATION	53-1485F	ABUT 1	PN	1	31	NO	12	--	--
		ABUT 5	PN	1	31	NO	12	--	--

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

PN = Paving notch  
 BW = Backwall  
 DJ = Deck Joint  
 AL = Longitudinal Deck 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 RSP B6-21 sheet.

The following notes apply to JOINT SEAL TYPE B:

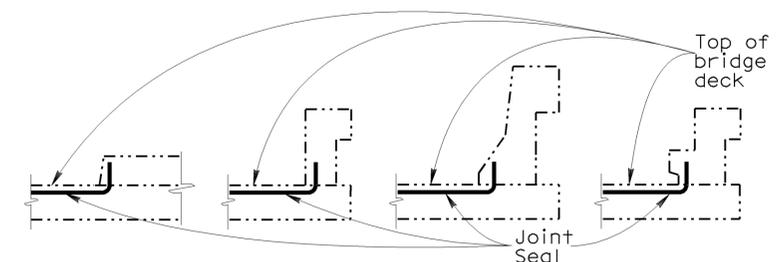
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

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

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

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

For details not shown see RSP B6-21 sheet.



BARRIER RAIL

**JOINT SEAL AT LOW SIDE OF DECK**

Note: Details shown for illustration purposes only.

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

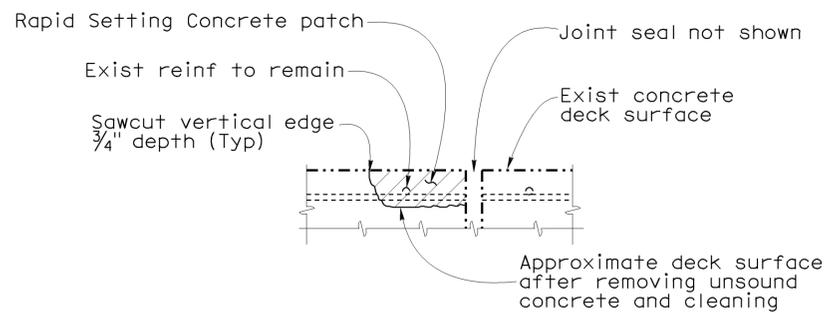
DESIGN	BY	Gerald Joo	CHECKED	HongTien Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 10 BRIDGES MISCELLANEOUS DETAILS NO. 1	
	DETAILS	BY	Tom Dang	CHECKED			HongTien Tran		Various
	QUANTITIES	BY	Gerald Joo	CHECKED			HongTien Tran		Varies

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: X PROJECT NUMBER & PHASE: 0700001895 CONTRACT NO.: 4Y740 DISREGARD PRINTS BEARING EARLIER REVISION DATES 6-28-11 09-28-11 SHEET 19 OF 27

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	44	51

08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE  
 C65380  
 09/30/11  
 GERALD D. JOO  
 RE

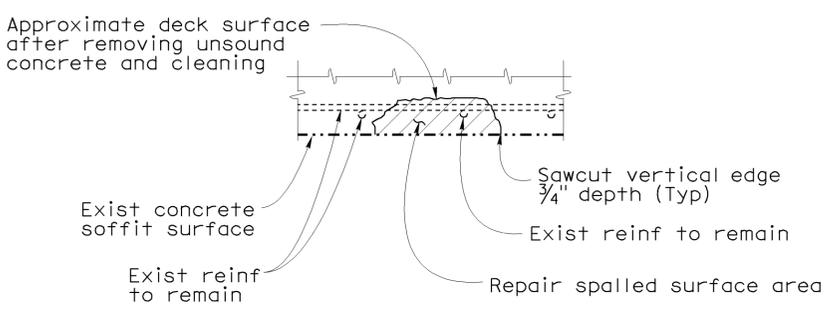
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*



**JOINT SPALL REPAIR DETAIL**

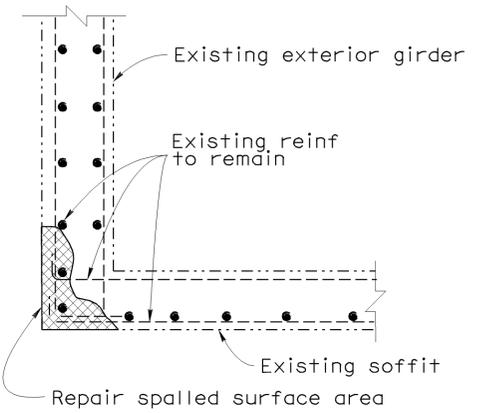
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

- DECK REPAIR 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.



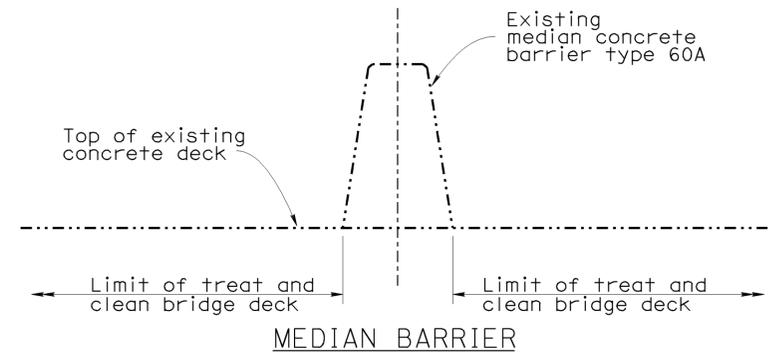
**SOFFIT SPALL REPAIR DETAIL**

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

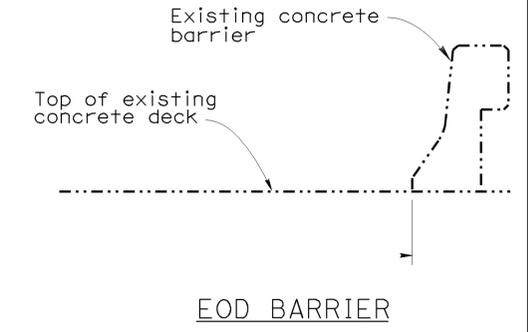


**SPALLED SURFACE AREA DETAIL**

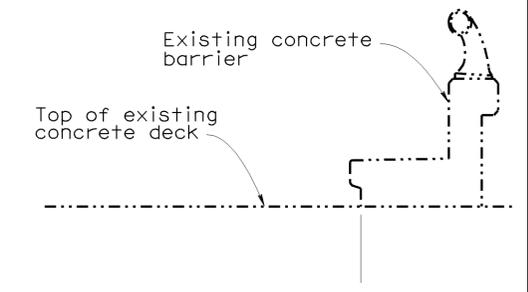
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



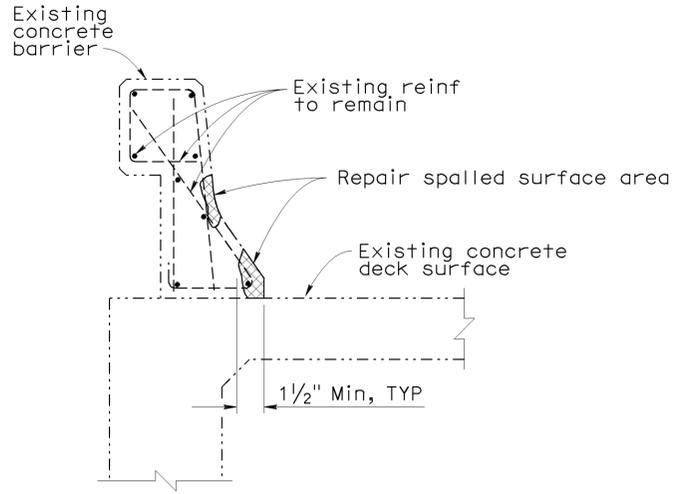
**MEDIAN BARRIER**



**EOD BARRIER**

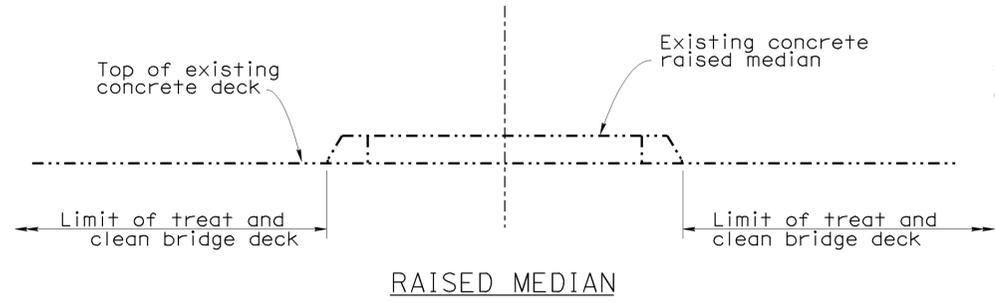


**SIDEWALK BARRIER TYPE 2**

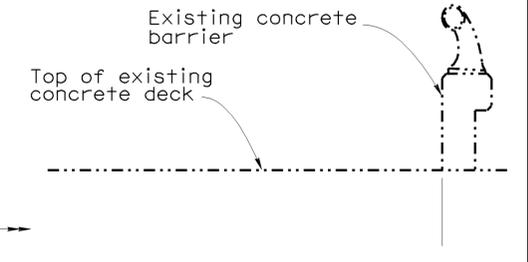


**CONCRETE BARRIER SPALL REPAIR DETAIL**

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



**RAISED MEDIAN**



**SIDEWALK BARRIER TYPE 1**

**TYPICAL LIMITS OF DECK WORK**

NO SCALE

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

DESIGN	BY Gerald Joo	CHECKED HongTien Tran
DETAILS	BY Tom Dang	CHECKED HongTien Tran
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTE 10 BRIDGES  
MISCELLANEOUS DETAILS NO. 2

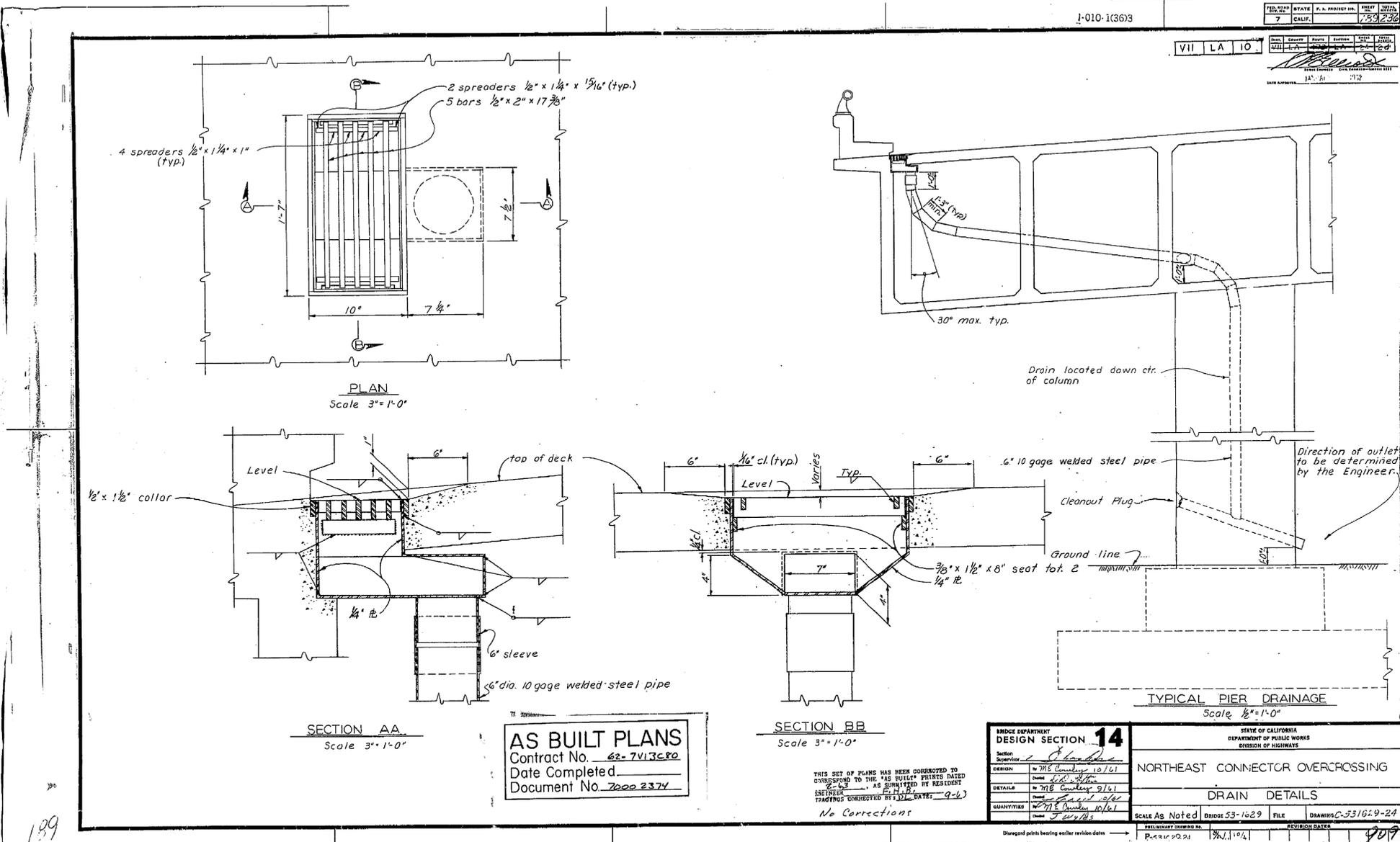




DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	46	51

08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER  
 GERALD D. JOO  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA



**AS BUILT PLANS**  
 Contract No. 62-7V13CPO  
 Date Completed  
 Document No. 7000 2374

BRIDGE DEPARTMENT <b>DESIGN SECTION 14</b>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
DESIGN BY G. Joo CHECKED BY H. Tran DATE 10/16/11	NORTHEAST CONNECTOR OVERCROSSING		
DRAIN DETAILS			
SCALE AS NOTED BRIDGE 53-1629	FILE DRAWING C-531629-24	REVISION DATES	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY SUPERVISION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 12-12-11 SIGNATURE James E. [unclear] TITLE [unclear]

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

**S405-E10 CONNECTOR OC**  
 Br No. 53-1629F, Rte 10, PM 29.62

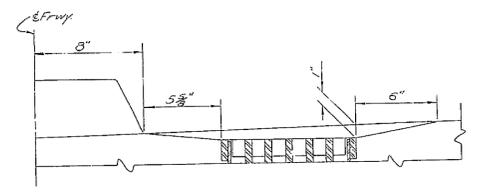
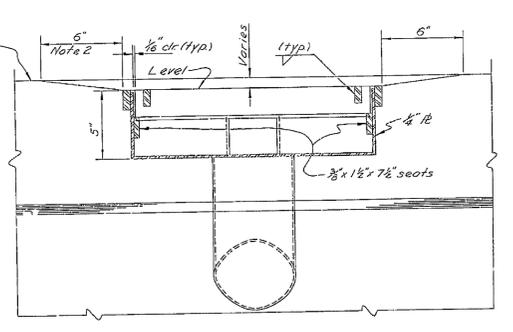
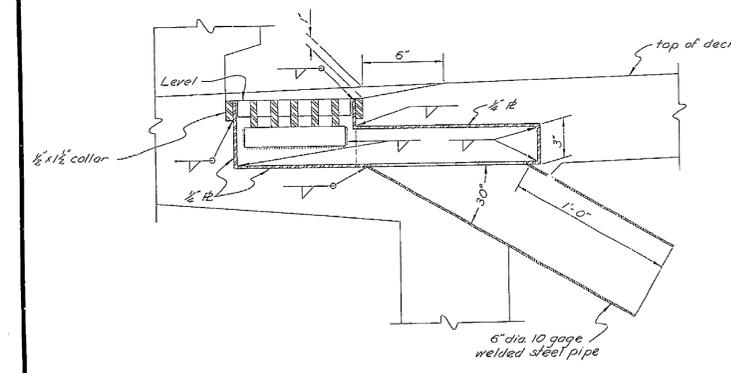
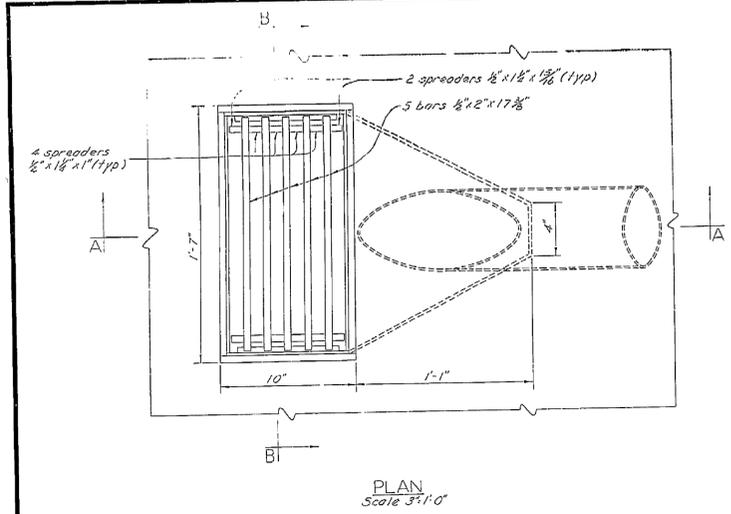
**FOR INFORMATIONAL USE ONLY**

DESIGN BY Gerald Joo CHECKED HongTien Tran	DETAILS BY Tom Dang CHECKED HongTien Tran	QUANTITIES BY Gerald Joo CHECKED HongTien Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. 53-1629F POST MILE 29.62	ROUTE 10 BRIDGES DRAIN DETAILS NO. 1 (AS-BUILT)
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: X PROJECT NUMBER & PHASE: 0700001895	CONTRACT NO.: 4Y740	DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES						SHEET 22 OF 27



DATE	BY	SCALE	PROJECT NO.	DATE
10/28/63				

Drain No.	Sta.	Elev. A
EB-1	141+47	143.84
EB-2	141+88	
EB-3	143+10	144.02
EB-4	144+75	144.10
EB-5	145+17	
EB-6	146+38	143.73
WB-1	43+71	144.34
WB-2	44+29	
WB-3	45+95	144.32
WB-4	47+43	144.33



- Notes:
1. Drain assembly to be galvanized after fabrication.
  2. Transition to deck slope 20' ahead of drain at EB-3.
  3. For location of drains see "General Plan" sheet.
  4. For Elev. A see "Drain Details No. 2" sheet.

**AS BUILT PLANS**  
 Contract No. 07-009424  
 Date Completed \_\_\_\_\_  
 Document No. 70002425

BRIDGE DEPARTMENT DESIGN SECTION 14	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
Section Number: _____	CENTINELA-PICO LINE ENCROSSING
DESIGN BY: H. E. Shivers	DRAIN DETAILS NO. 1
DETAILS BY: H. E. Shivers	Scale 3/4" = 1'-0"
QUANTITIES BY: H. E. Shivers	BRIDGE 53-1603 FILE DRAWING 5245 03-57
DATE: _____	PRELIMINARY DRAWING NO. P.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

NOTE:  
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**CENTINELA-PICO UC**  
 Br No. 53-1603, Rte 10, PM R4.24

**FOR INFORMATIONAL USE ONLY**

DESIGN BY: Gerald Joo	CHECKED: HongTien Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.: 53-1629F	ROUTE 10 BRIDGES DRAIN DETAILS NO.2 (AS-BUILT)
DETAILS BY: Tom Dang	CHECKED: HongTien Tran		POST MILE: 29.62	
QUANTITIES BY: Gerald Joo	CHECKED: HongTien Tran			
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)			UNIT: X PROJECT NUMBER & PHASE: 0700001895	CONTRACT NO.: 4Y740
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET OF 23 27

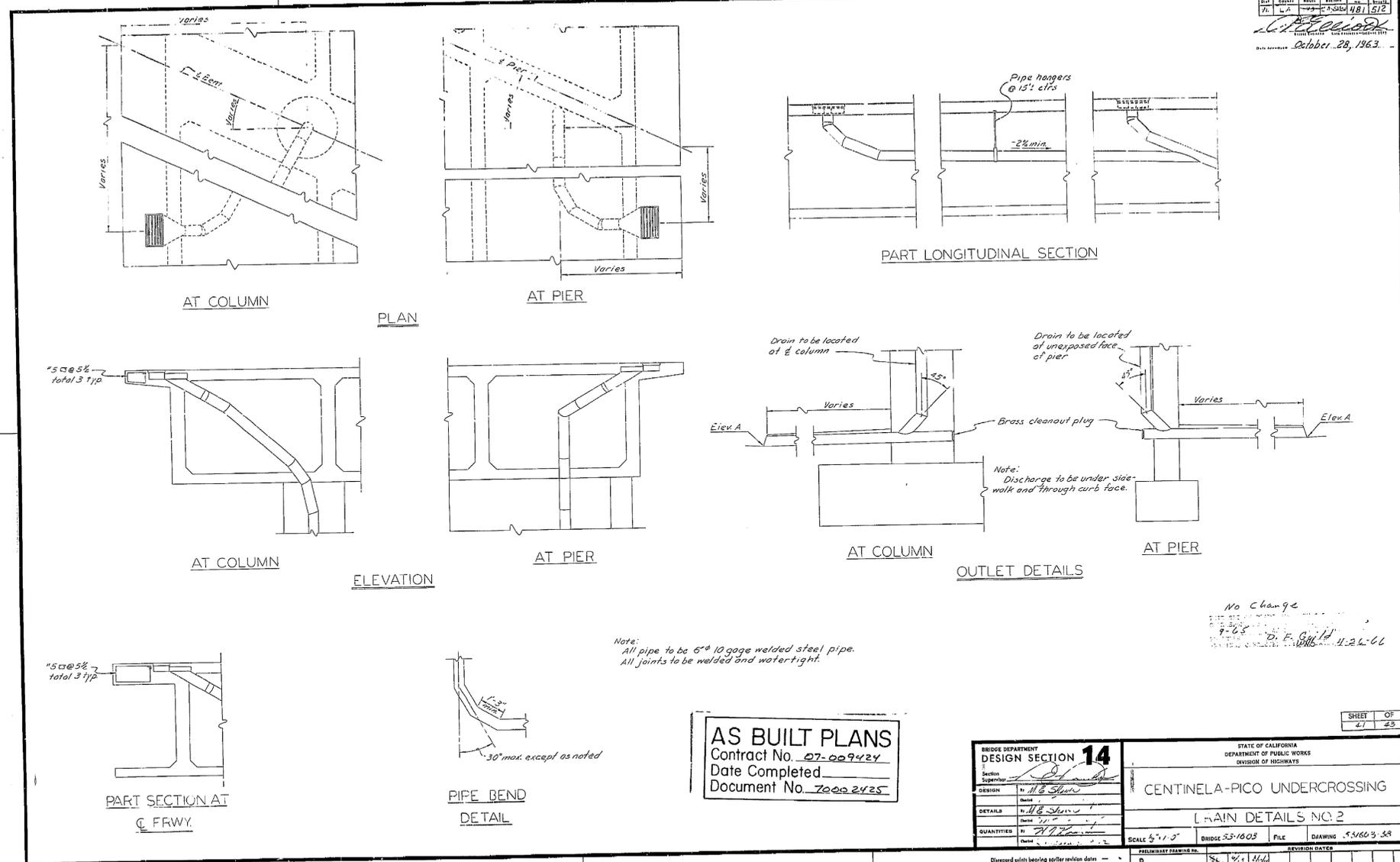
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 405	Var	48	51

08/25/11  
 REGISTERED CIVIL ENGINEER DATE  
 12-12-11  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA

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

DATE	BY	SCALE	PROJECT
12-12-11	Gerald Joo	1" = 20'	481 512

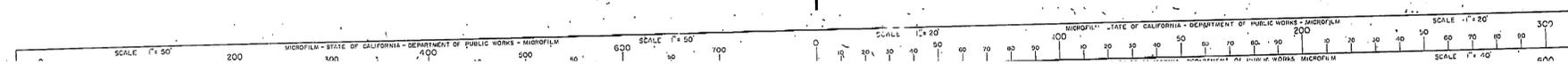
December 28, 1963



**AS BUILT PLANS**  
 Contract No. 07-009424  
 Date Completed  
 Document No. 70002425

BRIDGE DEPARTMENT		DESIGN SECTION 14	
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
CENTINELA-PICO UNDERCROSSING			
RAIN DETAILS NO. 2			
SCALE 5" = 10'	BRIDGE 53-1603	FILE	DRAWING 53-1603-38

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 12-12-11 SIGNATURE Gerald Joo TITLE



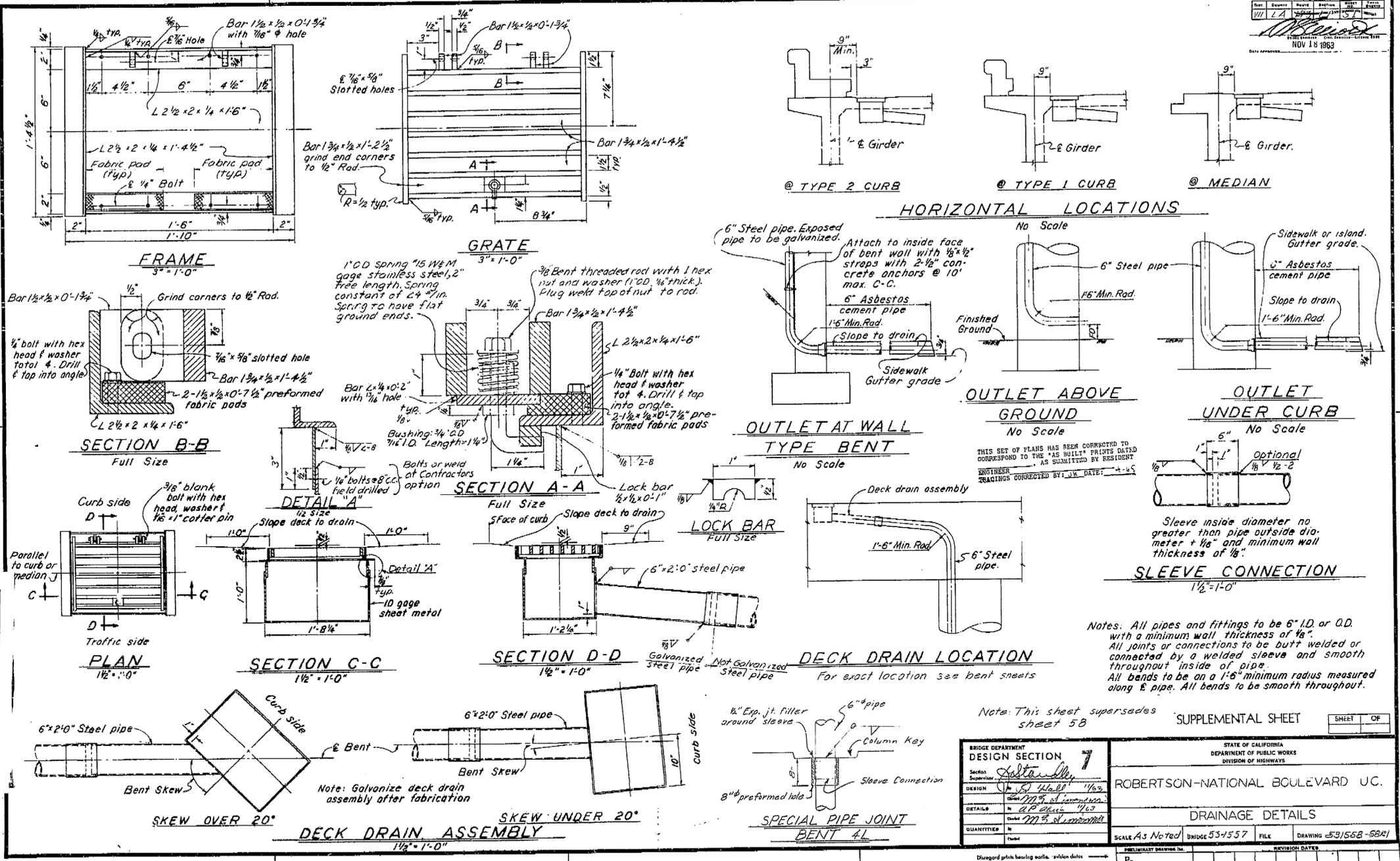
**CENTINELA-PICO UC**  
 Br No. 53-1603, Rte 10, PM R4.24

**FOR INFORMATIONAL USE ONLY**

NOTE:  
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DESIGN BY Gerald Joo	CHECKED	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 53-1603	<b>ROUTE 10 BRIDGES</b> <b>DRAIN DETAILS NO. 3 (AS-BUILT)</b>
DETAILS BY Tom Dang	CHECKED		POST MILE R4.24	
QUANTITIES BY Gerald Joo	CHECKED			
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: X PROJECT NUMBER & PHASE: 0700001895 CONTRACT NO.: 4Y740	DISREGARD PRINTS BEARING EARLIER REVISION DATES
			REVISION DATES	SHEET 24 OF 27

PROJECT NO. 442  
 DATE APPROVED NOV 18 1963



AS BUILT PLANS  
 Contract No. 07-007474  
 Date Completed  
 Document No. 7000 2407

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" FRUITS DATED 08/25/11 SUBMITTED BY RESIDENT ENGINEER. ENGINEER TRACINGS CORRECTED BY J.H. DATE: 4-4-15

Notes: All pipes and fittings to be 6" I.D. or O.D. with a minimum wall thickness of 1/8". All joints or connections to be butt welded or connected by a welded sleeve and smooth throughout inside of pipe. All bends to be on a 1'-6" minimum radius measured along E pipe. All bends to be smooth throughout.

BRIDGE DEPARTMENT		STATE OF CALIFORNIA	
DESIGN SECTION 7		DEPARTMENT OF PUBLIC WORKS	
DESIGNER: J. H. Hall		DIVISION OF HIGHWAYS	
CHECKED: M. S. J. (Signature)		ROBERTSON-NATIONAL BOULEVARD UC.	
DATE: 11/18/63		DRAINAGE DETAILS	
SCALE: As Noted	BRIDGE: 53+557	FILE:	DRAWING: 53/558-582/1
Preliminary Drawing No.		Revision Dates	
P.			

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE: 2-2-11 SIGNATURE: [Signature] TITLE: [Title]

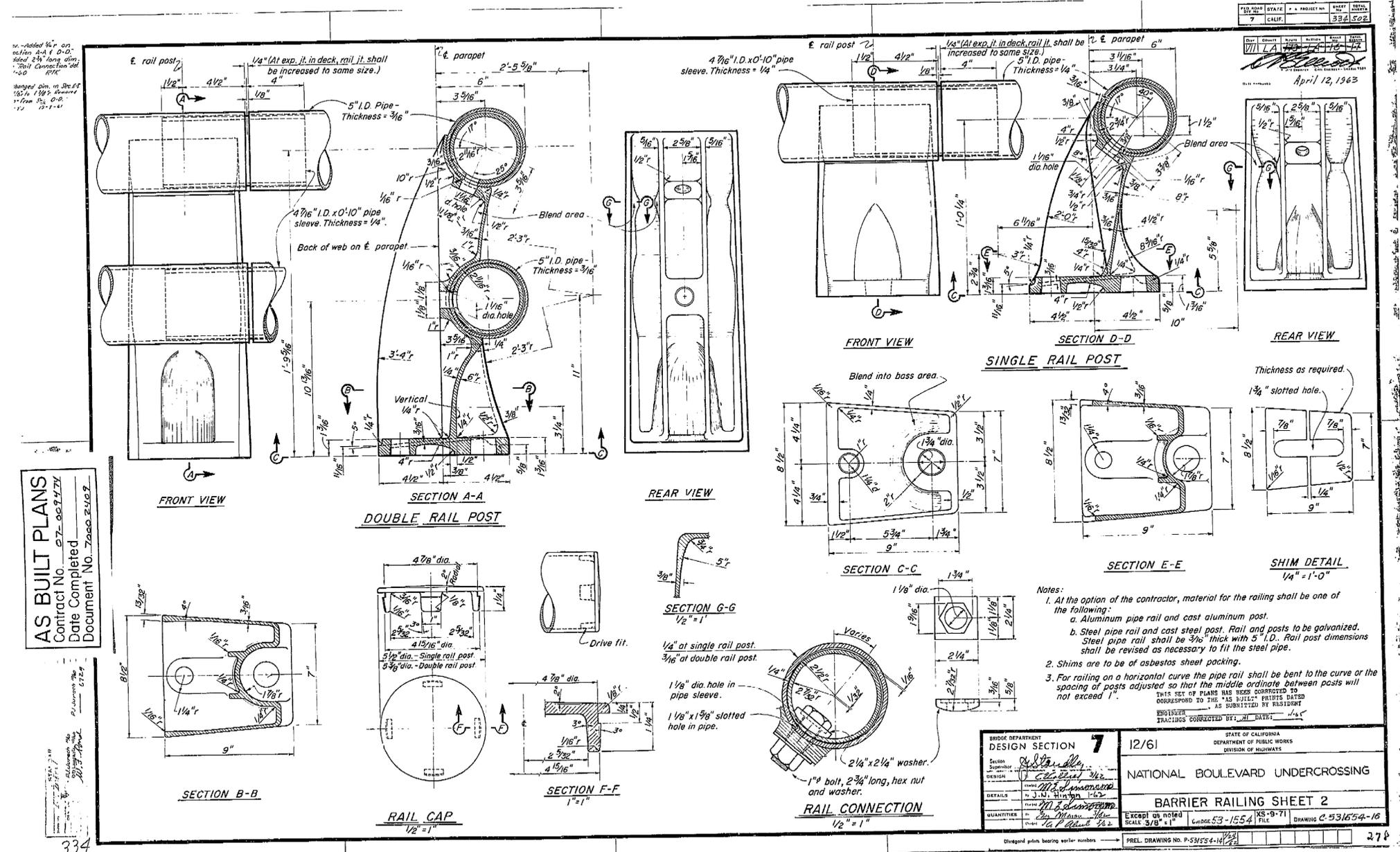
**ROBERTSON & NATIONAL UC**

Br No. 53-1557, Rte 10, PM R7.92

**FOR INFORMATIONAL USE ONLY**

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

DESIGN	BY: Gerald Joo	CHECKED: HongTien Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 53-1557	ROUTE 10 BRIDGES
DETAILS	BY: Tom Dang	CHECKED: HongTien Tran			
QUANTITIES	BY: Gerald Joo	CHECKED: HongTien Tran			
			DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	POST MILE R7.92	<b>DRAIN DETAILS NO. 4 (AS-BUILT)</b>
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)			UNIT: X PROJECT NUMBER & PHASE: 0700001895	CONTRACT NO.: 4Y740	DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	REVISION DATES	SHEET 25 OF 27



**AS BUILT PLANS**  
 Contract No. 07-08777Y  
 Date Completed  
 Document No. 7000 2/10/7

- Notes:
- At the option of the contractor, material for the railing shall be one of the following:
    - Aluminum pipe rail and cast aluminum post.
    - Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/8" thick with 5" I.D. Rail post dimensions shall be revised as necessary to fit the steel pipe.
  - Shims are to be of asbestos sheet packing.
  - For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

BRIDGE DEPARTMENT DESIGN SECTION 7	12/61	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
NATIONAL BOULEVARD UNDERCROSSING		
BARRIER RAILING SHEET 2		
EXCEPT AS NOTED SCALE 3/8" = 1"	60000-53-1554	KS-9-71 DRAWING C-531654-16

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

**E10-N405 CONNECTOR SEPARATION**

Br No. 53-1627G, Rte 10, PM R5.28

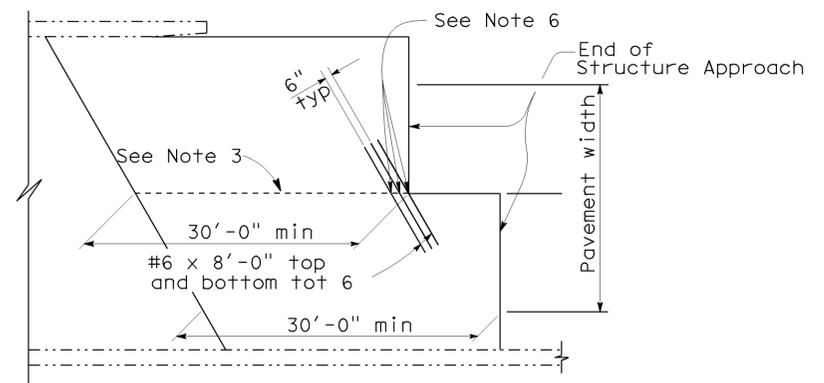
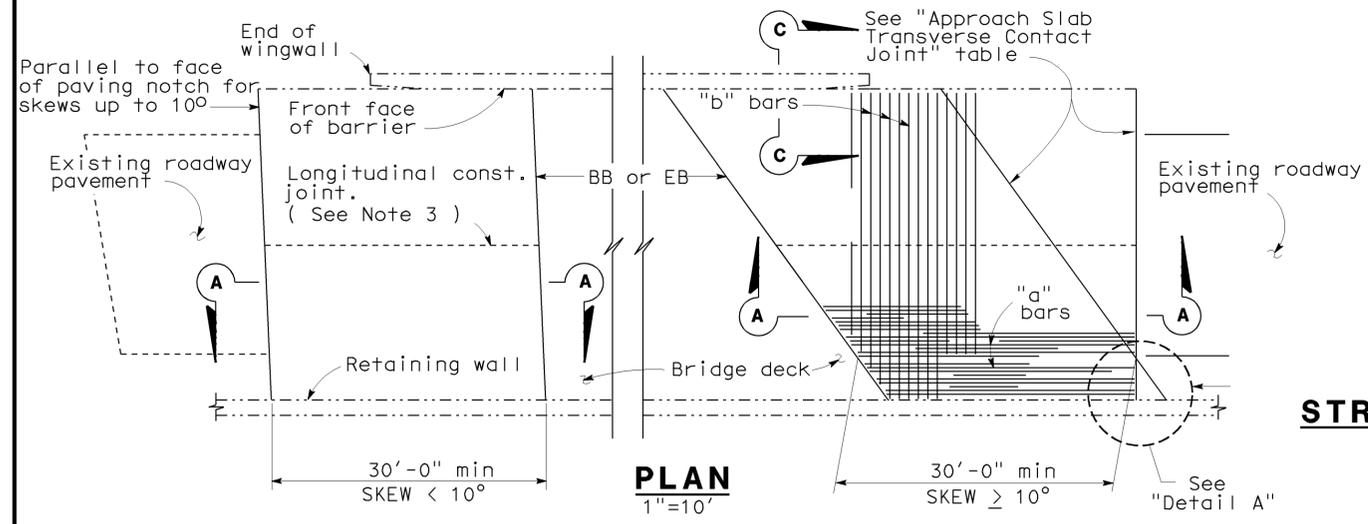
**FOR INFORMATIONAL USE ONLY**

DESIGN	BY Gerald Joo	CHECKED HongTien Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	53-1627G	ROUTE 10 BRIDGES BARRIER RAILING DETAILS (AS-BUILT)
DETAILS	BY Tom Dang	CHECKED HongTien Tran			POST MILE	R5.28	
QUANTITIES	BY Gerald Joo	CHECKED HongTien Tran					

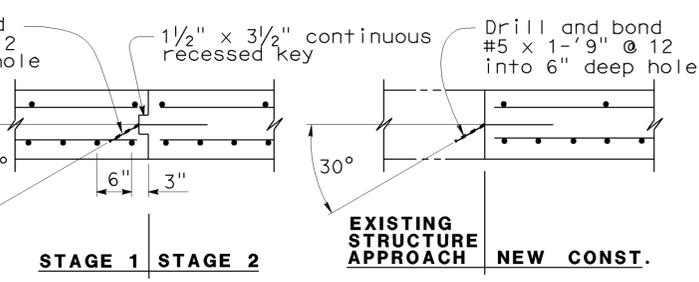
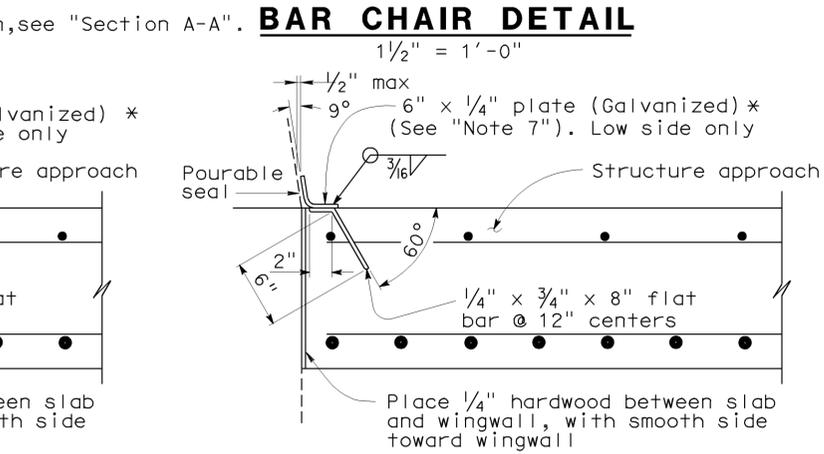
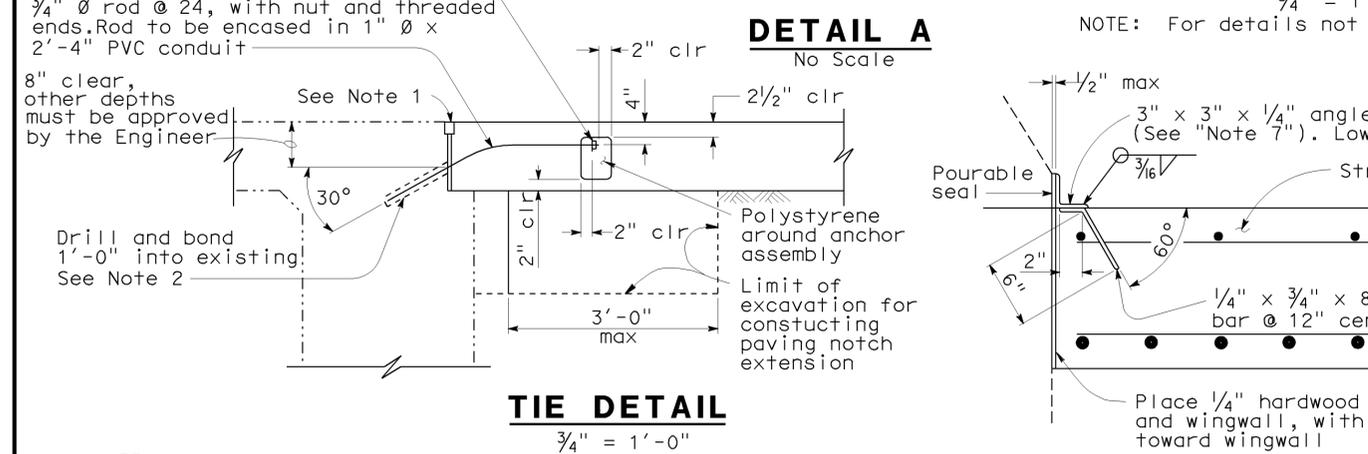
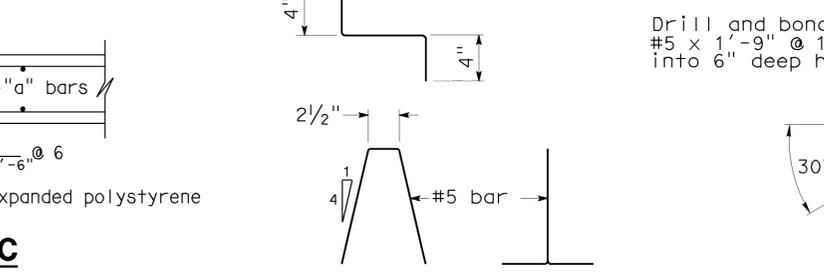
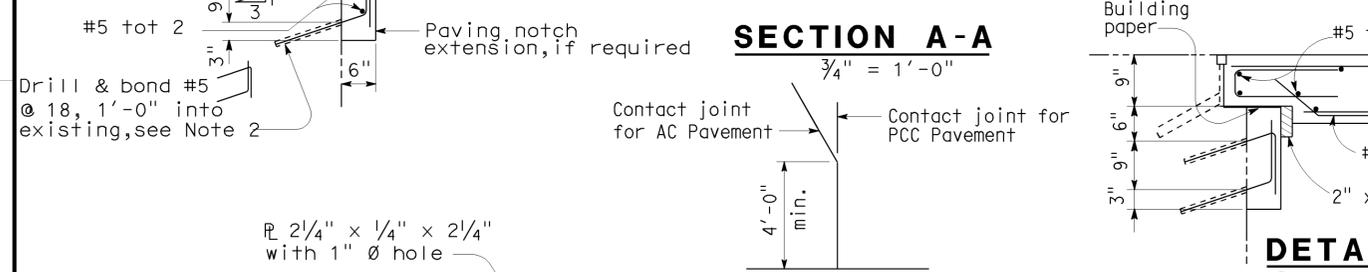
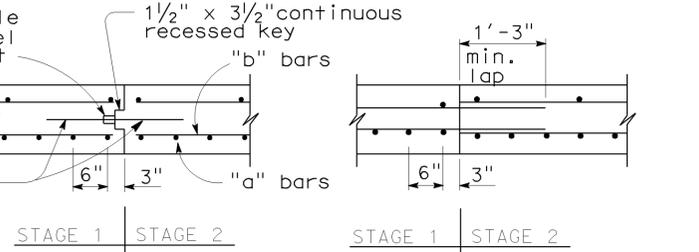
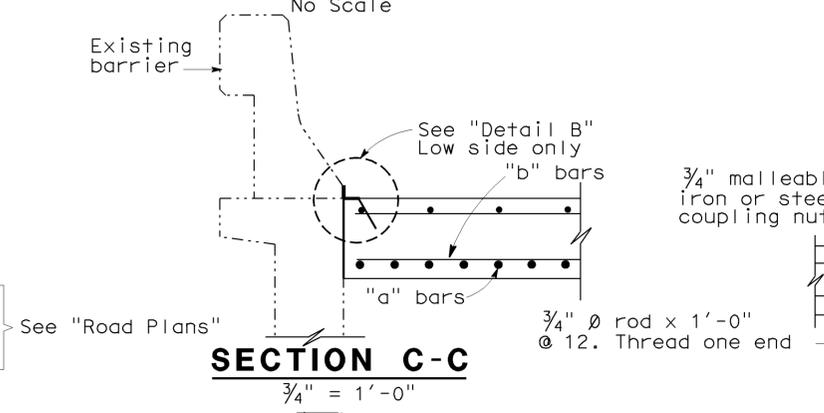
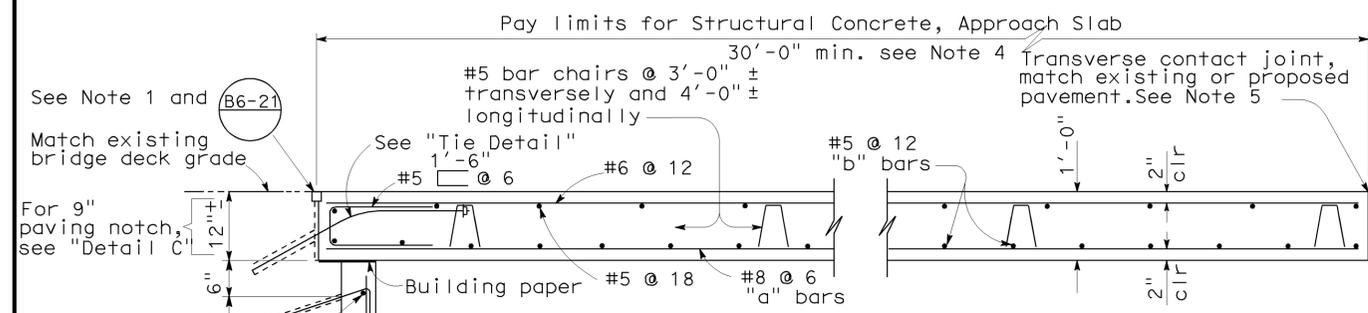
DIST.	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10, 405	Var	51	51

08/25/11  
 REGISTERED ENGINEER - CIVIL  
 12-12-11  
 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.

PROFESSIONAL ENGINEER  
 GERALD D. JOO  
 No. C65380  
 Exp. 09/30/11  
 CIVIL  
 STATE OF CALIFORNIA



APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	Parallel to face of paving notch	Parallel to face of paving notch
10° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 24' to 36' apart
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line



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

NOTE: For details not shown, see "Section A-A".

- 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.

STANDARD DRAWING			
RELEASE DATE 3/14/05	DESIGN BY M. TRAFFALIS	CHECKED E. THORKILDSEN	RELEASED BY
FILE NO. xs3-140e	DETAILS BY R. YEE	CHECKED E. THORKILDSEN	
	SUBMITTED BY M. HA	DRAWING DATE 8/92	OFFICE CHIEF

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. Various  
 MILE POST Varies

ROUTE 10 BRIDGES  
 STRUCTURE APPROACH TYPE R(30D)

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 27 OF 27
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