

INDEX OF PLANS

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95-116	APPROACH SLAB REHABILITATION
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA ACSTP-X073(098)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SAN DIEGO COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	1	116





LOCATION MAP

ROUTE 5
LOCATIONS OF CONSTRUCTION
Nos. 1 THROUGH 10

ROUTE 52
LOCATIONS OF CONSTRUCTION
Nos. 29 THROUGH 33

ROUTE 94
LOCATIONS OF CONSTRUCTION
Nos. 34 THROUGH 39

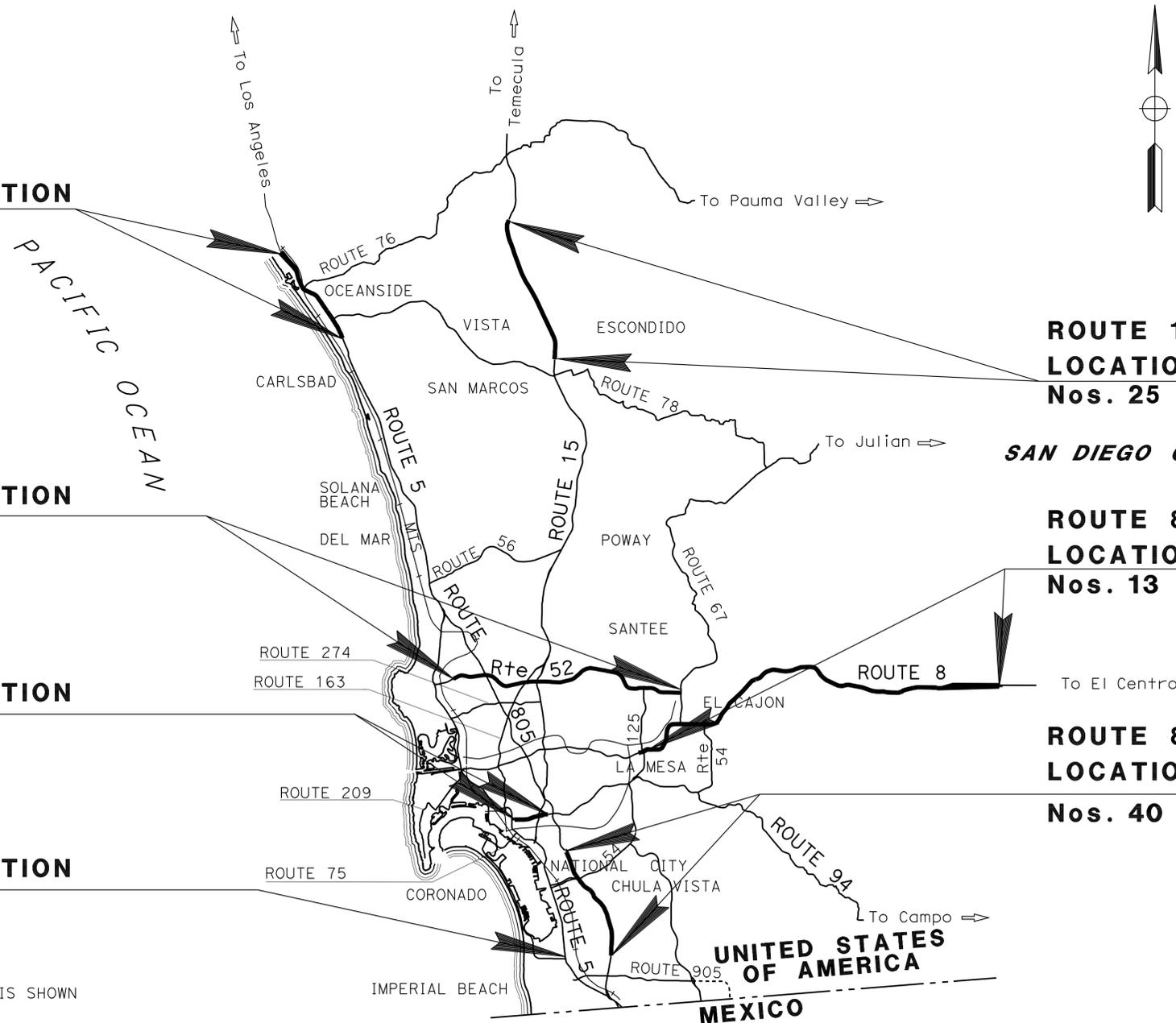
ROUTE 5
LOCATIONS OF CONSTRUCTION
Nos. 11 THROUGH 12

NOTES:
 THE TABLE OF LOCATIONS OF CONSTRUCTION IS SHOWN ON THE LOCATIONS OF CONSTRUCTION SHEET.
 MTS - Metropolitan Transit System

ROUTE 15
LOCATIONS OF CONSTRUCTION
Nos. 25 THROUGH 28

ROUTE 8
LOCATIONS OF CONSTRUCTION
Nos. 13 THROUGH 24

ROUTE 805
LOCATIONS OF CONSTRUCTION
Nos. 40 THROUGH 56



PROJECT MANAGER
 BRUCE LAMBERT
 DESIGN ENGINEER
 KAZIM MAMDANI

 01-25-12
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
April 30, 2012
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

CONTRACT No.	11-238604
PROJECT ID	1100020184

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	2	116

 01-25-12
 REGISTERED CIVIL ENGINEER DATE

4-30-12
 PLANS APPROVAL DATE

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LOCATIONS OF CONSTRUCTION

Loc	BRIDGE No.	PM	DIRECTION	BRIDGE NAME	ROUTE
1	57-0587L	63.70	SB	AGRA OH	5
2	57-0005R	61.40	NB	LAS FLORES CREEK	5
3	57-0583R	56.80	NB	STUART OH	5
4	57-0007R	56.40	NB	SANTA MARGARITA RIVER	5
5	57-0581L	55.30	SB	FALLBROOK JUNCTION OH	5
6	57-0713R	54.04	NB	SAN LUIS REY RIVER	5
7	57-0125	52.20	SB	LOMA ALTA CREEK	5
8	57-0277	50.90	SB	BUENA VISTA LAGOON	5
9	57-0274	50.10	SB	CARLSBAD VILLAGE Dr UC	5
10	57-0275	49.70	SB	CHESTNUT Ave UC	5
11	57-0263	5.10	NB	OTAY RIVER OVERFLOW	5
12	57-0246	5.01	NB	OTAY RIVER BRIDGE	5
13	57-0692L	41.70	WB	PINE VALLEY CREEK	8
14	57-0690L	39.62	WB	HORSETHIEF Rd UC	8
15	57-0688L	36.53	WB	SWEETWATER RIVER	8
16	57-0528R/L	26.73	EB/WB	PEUTZ VALLEY Rd UC	8
17	57-0539R/L	25.68	EB/WB	HARBISON CANYON UC	8
18	57-0534R/L	23.64	EB/WB	FLINN SPRINGS Rd UC	8
19	57-0462R/L	21.82	EB/WB	LAKE JENNINGS PARK Rd UC	8
20	57-0474L	20.04	WB	LOS COCHES Rd UC	8
21	57-0366R	16.05	EB	BALLANTYNE LANE UC	8
22	57-0364R	15.30	EB	JOHNSON Ave UC	8
23	57-0363R/L	14.59	EB/WB	MAIN St UC	8
24	57-0362	13.66	WB	EL CAJON OH	8
25	57-0889R/L	41.80	NB/SB	CAMINO DEL REY UC	15
26	57-0894L	39.30	SB	LAWRENCE WELK Dr UC	15
27	57-0819L	33.60	SB	COUNTRY CLUB LANE UC	15
28	57-0817R	31.90	NB	ROCK SPRINGS Rd UC	15
29	57-1024G	15.16	EB	PROSPECT Ave UC (E52-S125 CONNECTOR)	52
30	57-0753G	3.36	EB	E52-N805/SAN CLEMENTE CREEK	52
31	57-0744R	2.29	EB	GENESEE Ave UC	52
32	57-0743R	1.35	EB	REGENTS Rd UC	52
33	57-0523F	0.37	WB	W52-N5 CONNECTOR OH	52
34	57-0572L	11.80	WB	KENWOOD DRIVE UC	94
35	57-0663R	4.00	WB	W94-S805 CONNECTOR UC	94
36	57-0107L	3.36	WB	LAS CHOLLAS CREEK	94
37	57-0350F	3.08	WB	W94-S15 CONNECTOR OC	94
38	57-0361	2.68	WB	32ND St UC	94
39	57-0430F	1.46	WB	W94-N5 CONNECTOR OC	94
40	57-0611R	14.59	NB	ROUTE 805/15 SEPARATION	805
41	57-0671L	13.95	SB	HOME Ave UC	805
42	57-0647	11.36	SB	47TH STREET UC	805
43	57-0646	11.14	NB/SB	DIVISION St UC	805
44	57-0644	10.60	SB	EIGHTH St UC	805
45	57-0643	10.28	NB/SB	PLAZA Blvd UC	805
46	57-0640R/L	9.19	NB/SB	EUCLID Ave UC	805
47	57-0639R/L	9.05	NB/SB	SWEETWATER ROAD UC	805
48	57-0746R/L	8.80	NB/SB	ROUTE 805/54 SEPARATION	805
49	57-0638R/L	8.60	NB/SB	SWEETWATER RIVER	805
50	57-0637R	7.70	NB	BONITA Rd UC	805
51	57-0635R/L	6.00	NB/SB	TELEGRAPH CANYON Rd UC	805
52	57-0634L	5.54	SB	NAPLES STREET UC	805
53	57-0632R/L	3.65	NB/SB	OTAY VALLEY Rd/ MAIN St UC	805
54	57-0631R/L	3.34	NB/SB	OTAY RIVER	805
55	57-0854R/L	2.17	NB/SB	DEL SOL BOULEVARD UC	805
56	57-0776R/L	0.65	NB/SB	SAN YSIDRO Blvd UC	805

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
 FUNCTIONAL SUPERVISOR: KAZIM MAMDANI
 CALCULATED/DESIGNED BY: JIM ALSHEIKH
 CHECKED BY: MARVIN A. CANTON
 REVISED BY: DATE REVISION

LOCATIONS OF CONSTRUCTION

LC-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	3	116

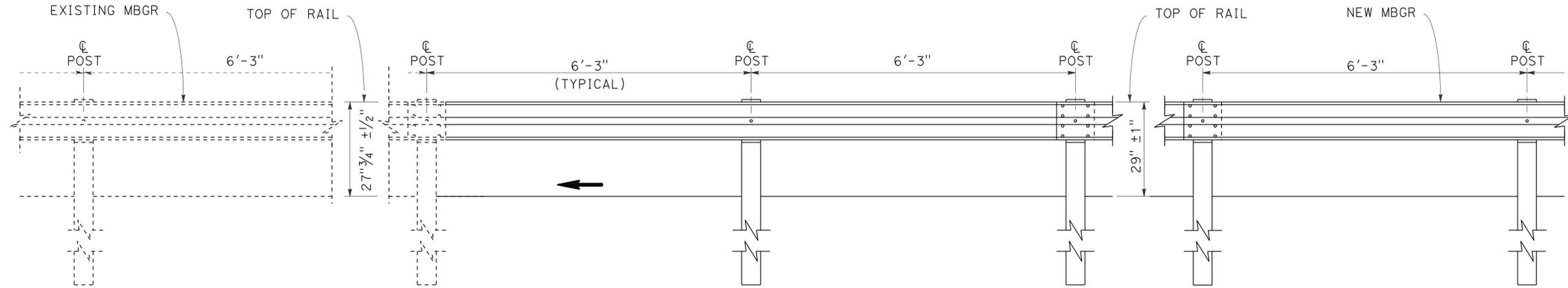
<i>Marvin A. Canton</i>	01-25-12
REGISTERED CIVIL ENGINEER	DATE
4-30-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
No. C69855
Exp. 09-30-12
CIVIL

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NOTE:

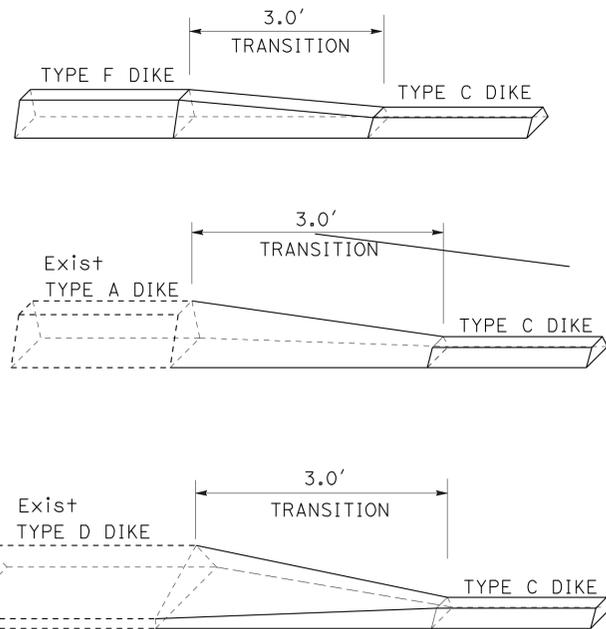
1. TO CONNECT EXISTING RAILING TO NEW RAILING, TRANSITION THE TOP OF NEW RAILING HEIGHT AT A RATIO OF 120:1 TO EXISTING RAILING HEIGHT.



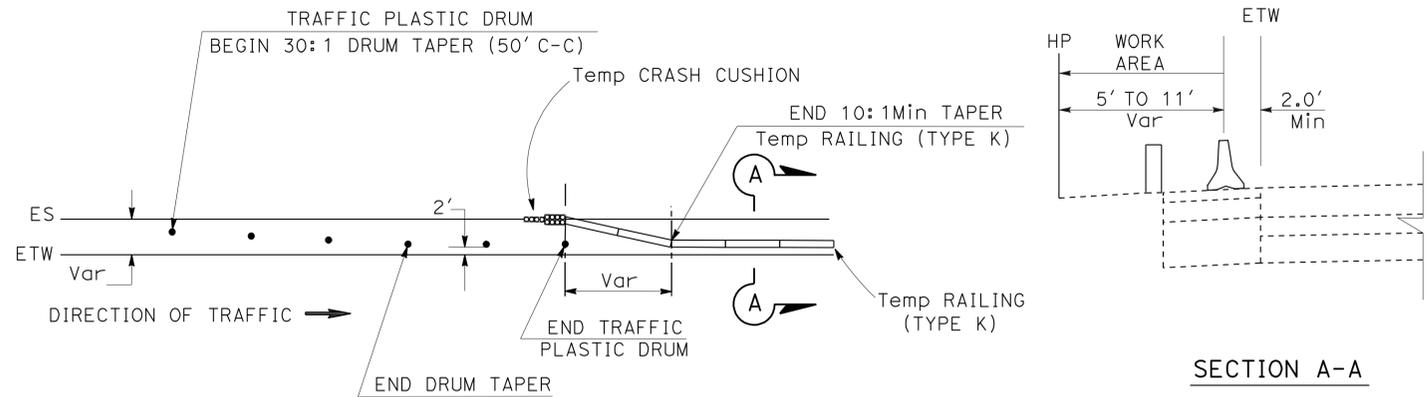
FOR DETAILS NOT SHOWN, SEE STANDARD PLANS RSP A77A1 AND RSP A77A2.

ELEVATION

METAL BEAM GUARD RAILING TRANSITION



HMA DIKE TRANSITION



TEMPORARY RAILING (TYPE K) AND TRAFFIC PLASTIC DRUMS AT ANCHOR BLOCK CONSTRUCTION

(SEE SUMMARY OF QUANTITIES FOR LOCATIONS)

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR

CALCULATED/DESIGNED BY

JIM ALSHEIKH
MARVIN A. CANTON

REVISOR BY

DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	4	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE

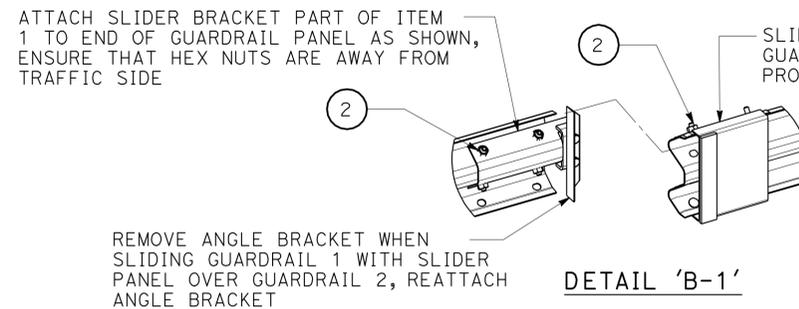
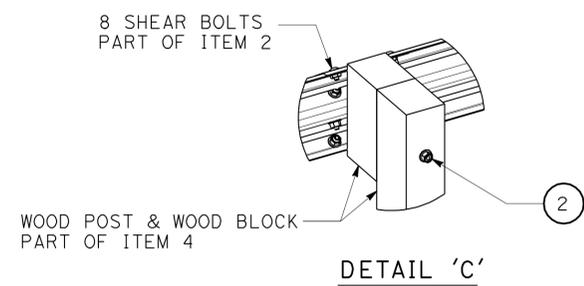
4-30-12
 PLANS APPROVAL DATE

MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL

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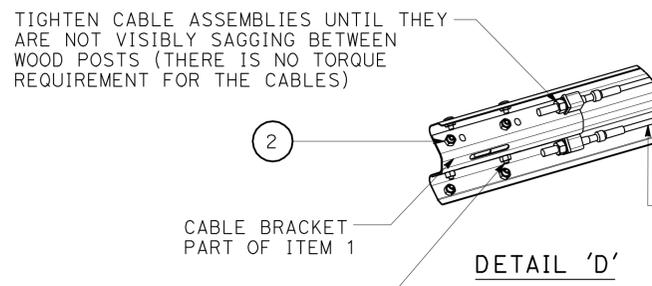
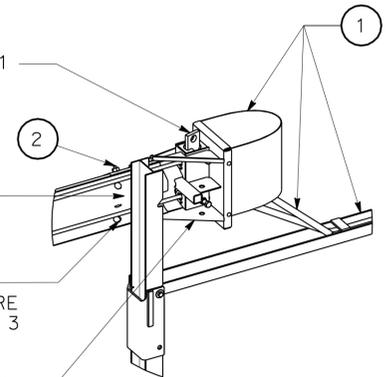
NOTES:

1. SEE MANUFACTURER PLANS FOR ADDITIONAL DETAILS AND DIMENSIONS NOT SHOWN ON PLANS.
2. SYSTEM TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
3. ONLY TIGHTEN THE CABLE ASSEMBLIES USING THE NUTS AT THE CABLE BRACKET (SEE DETAIL 'D'). DO NOT TIGHTEN THE CABLES AT THE FRONT OF THE GROUND ANCHOR.
4. WHEN DRIVING STEEL POST, ENSURE THAT A DRIVING CAP WITH TIMBER OR PLASTIC INSERT IS USED TO PREVENT DAMAGE TO THE GALVANIZING TO THE TOP OF THE STEEL POST.



SLIDE GUARDRAIL PANEL PART OF ITEM 1 OVER END OF GUARDRAIL 1 SECURE IN PLACE USING HARDWARE PROVIDED, ENSURE THAT HEX NUTS ARE ON TRAFFIC SIDE

USE A PRY BAR TO TURN FRICTION PLATE PART OF ITEM 1 COUNTER CLOCKWISE UNTIL IT IS COMPLETELY AGAINST LOCKING MECHANISM, SECURE IN PLACE USING 4 BOLTS PART OF ITEM 2 ON SIDE OF IMPACT HEAD WELDMENT



SLIDER PANEL ON TRAFFIC SIDE SLIDER BRACKET ON INSIDE OF GUARDRAIL PANEL

PASS 2 CABLE ASSEMBLIES BETWEEN GUARDRAIL PANELS AND WOOD BLOCKS

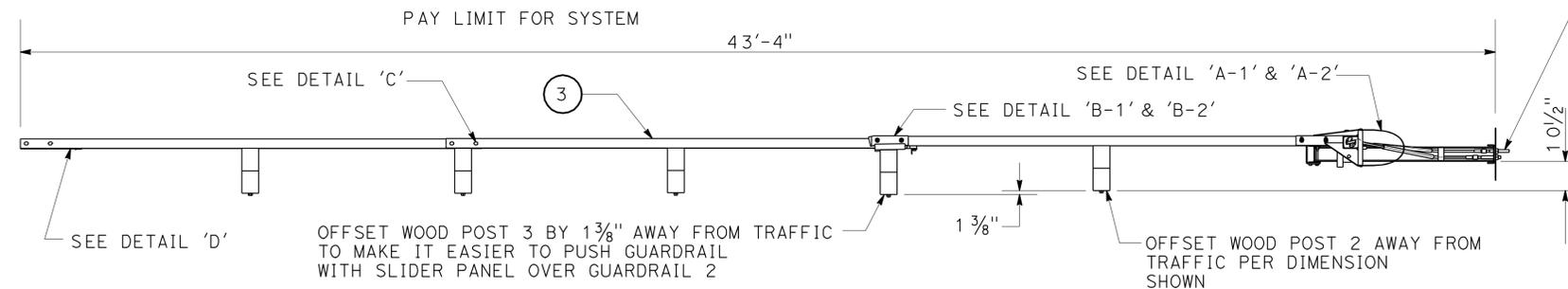
DETAIL 'B-2'

BEFORE INSTALLATION OF GUARDRAIL TO WOOD BLOCKS, SECURE WOOD BLOCK FROM ROTATION WITH A 16d GALVANIZED NAIL (ALL WOOD POST)

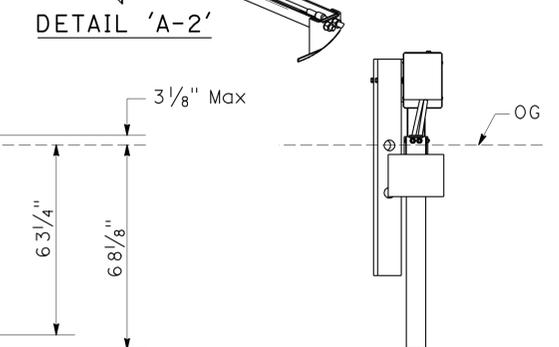
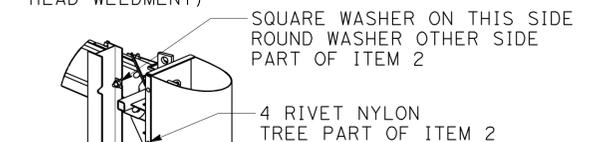
USE WOOD BLOCKS TO HOLD HEAD WELDMENT UP WHILE BOLTING IT TO THE GUARDRAIL PANEL AND STEEL POST 1

USE GUARDRAIL HARDWARE PROVIDED PART OF ITEM 3 TO SECURE WOOD BLOCK TO WOOD POST GUARDRAIL IS NOT BOLTED TO THE WOOD BLOCK OR WOOD POST

ENSURE THAT HEX NUTS ARE ON INSIDE OF GUARDRAIL PANEL



PASS CABLE ASSEMBLY UNDER THE STEEL STRAP ON THE GROUND STRUT AND FORWARD THROUGH THE HOLES AT FRONT END OF GROUND STRUT. THEN PASS CABLE ASSEMBLY THROUGH LOWER HOLE IN IMPACT HEAD WELDMENT AND THROUGH FRICTION PLATE AND OUT THE BACK SIDE OF THE IMPACT HEAD. (REPEAT FOR SECOND CABLE ASSEMBLY TO PASS THROUGH UPPER HOLE IN IMPACT HEAD WELDMENT)



LEGEND

ITEM	DESCRIPTION
1	TERMINAL SYSTEM (TYPE X-TENSION) COMPONENT KIT
2	TERMINAL SYSTEM (TYPE X-TENSION) SYSTEM HARDWARE KIT
3	TERMINAL SYSTEM (TYPE X-TENSION) GUARDRAIL COMPONENT KIT 1

TERMINAL SYSTEM (TYPE X-TENSION)

CONSTRUCTION DETAILS

NO SCALE

C-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	5	116

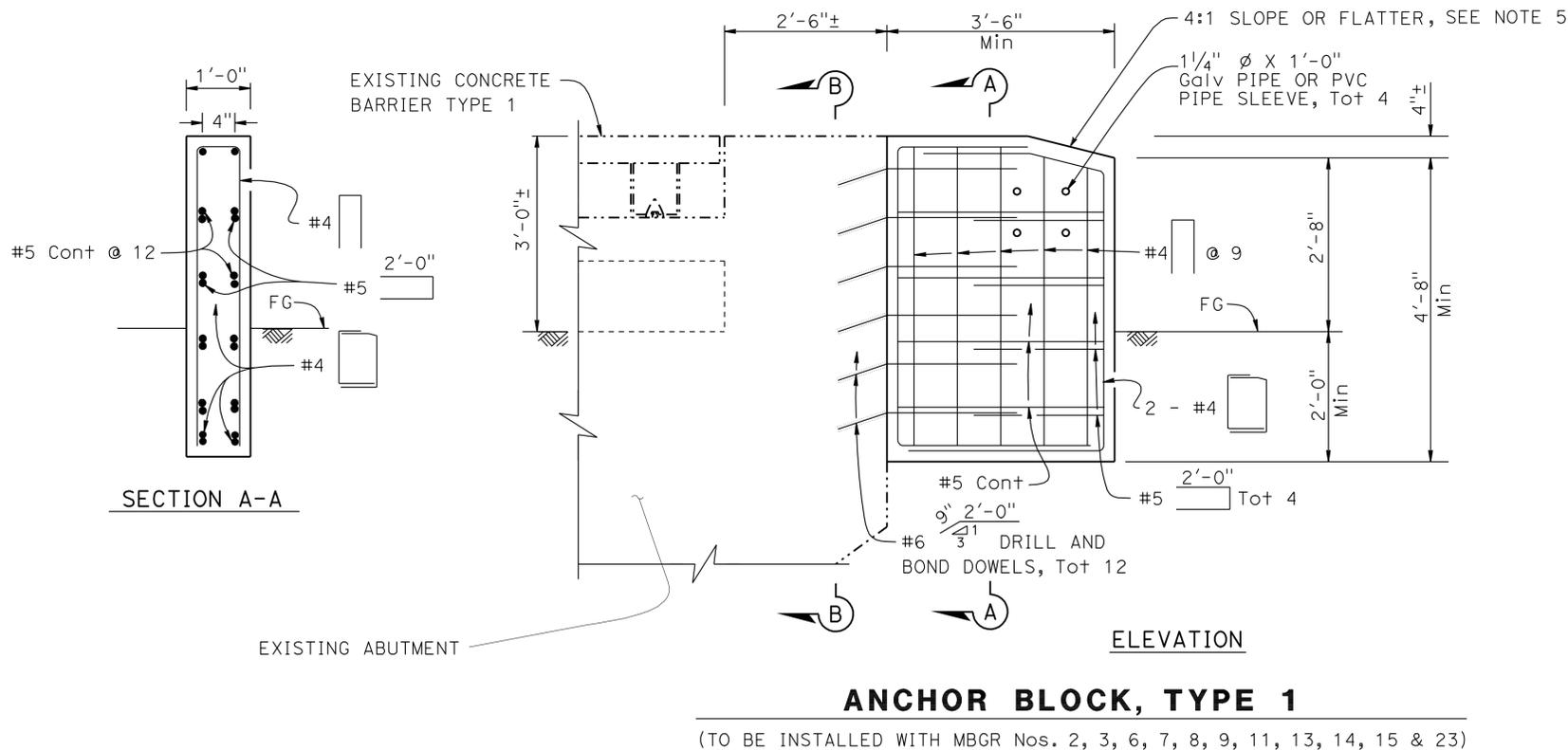
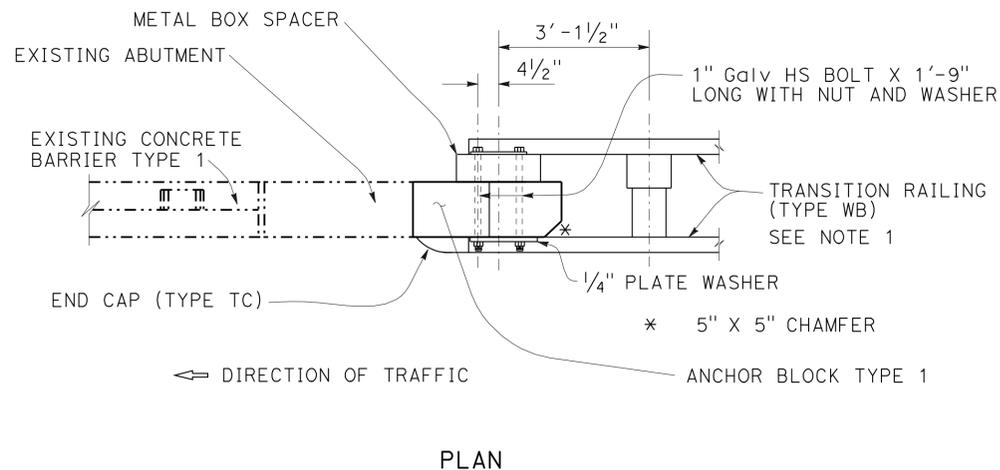
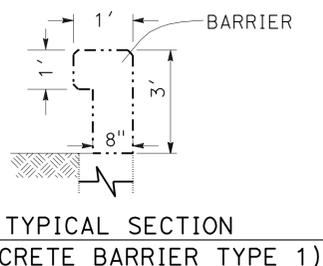
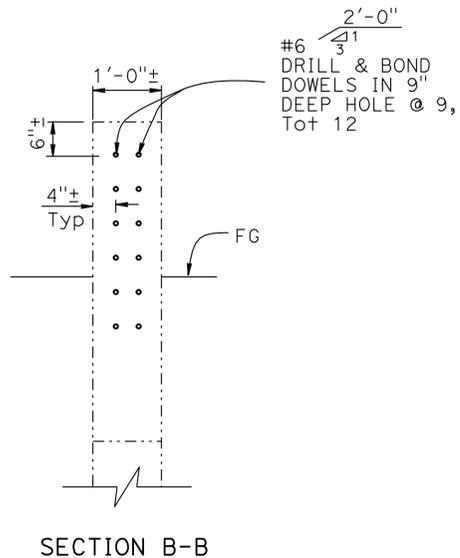
01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

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NOTES:

- FOR DETAILS NOT SHOWN, SEE STANDARD PLAN A77J4.
- DEPENDENT DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE FABRICATING ANY END CONNECTION TO CONFORM WITH EXISTING PAVED CONDITIONS.
- ALL PLATES AND BOLTS ARE GALVANIZED.
- CUT AND REMOVE PORTION OF CONCRETE BARRIER TYPE 1, AND BAGR AS REQUIRED.
- TAPER THE TOP OF THE END OF THE ANCHOR BLOCK AT 4:1 TO MATCH THE TOP ELEVATION OF THE TRANSITION RAILING (TYPE WB).



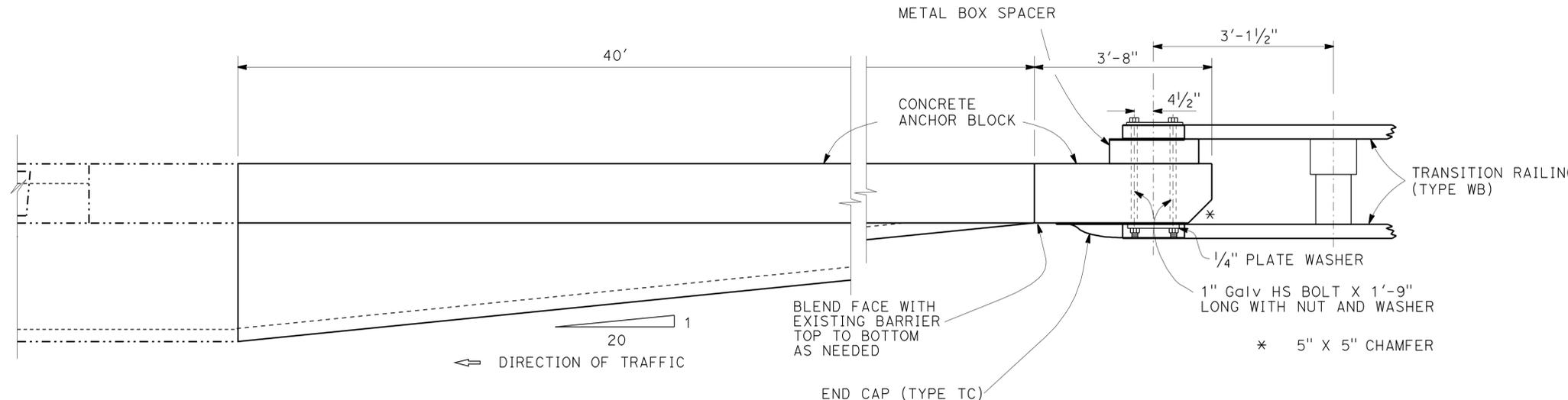
CONSTRUCTION DETAILS
 NO SCALE
C-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	6	116

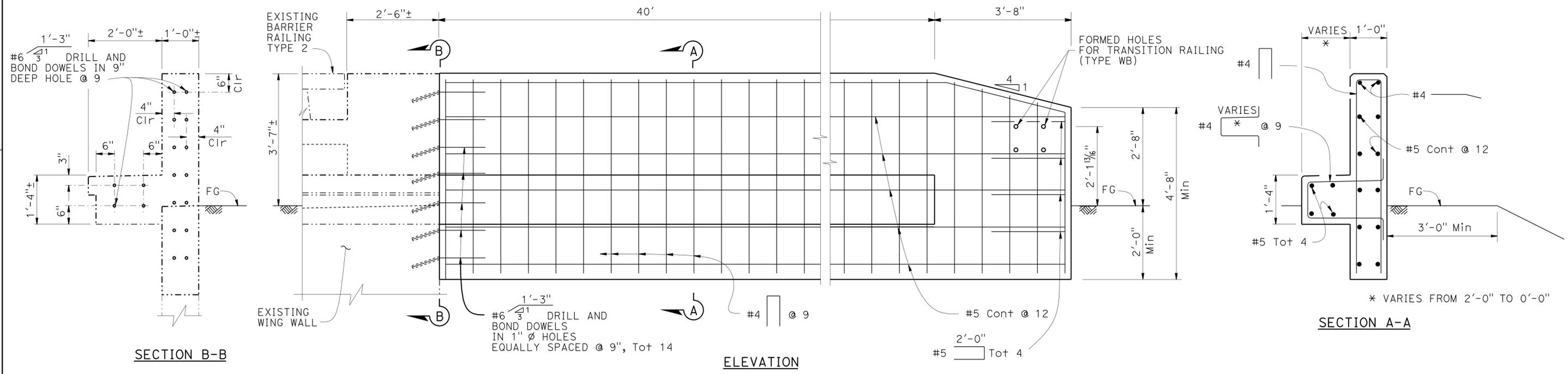
01-25-12
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 4-30-12
 PLANS APPROVAL DATE

MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

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PLAN



SECTION B-B

ELEVATION

SECTION A-A

NOTE:
 CUT AND REMOVE PORTION OF BARRIER RAILING TYPE 2 AND BAGR AS REQUIRED

ANCHOR BLOCK, TYPE 2
 (TO BE INSTALLED WITH MBGR No. 10)

CONSTRUCTION DETAILS
 NO SCALE
C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 PROJECT DEVELOPMENT
 FUNCTIONAL SUPERVISOR: KAZIM MAMDANI
 CALCULATED/DESIGNED BY: MARVIN A. CANTON
 CHECKED BY: MARVIN A. CANTON
 REVISED BY: NAPOLEON CHEWE
 DATE REVISED:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	7	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

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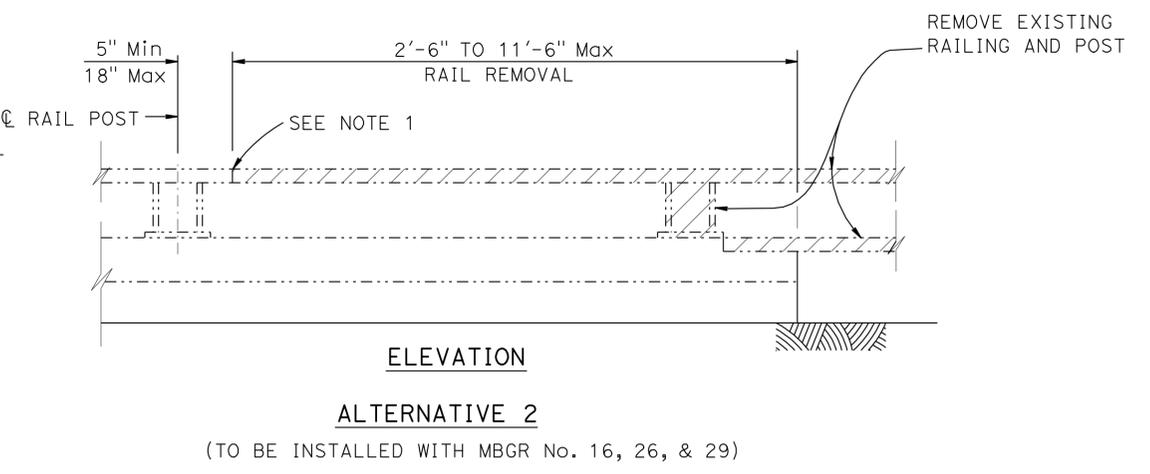
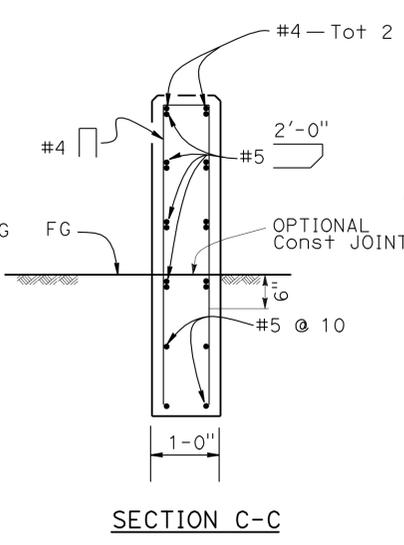
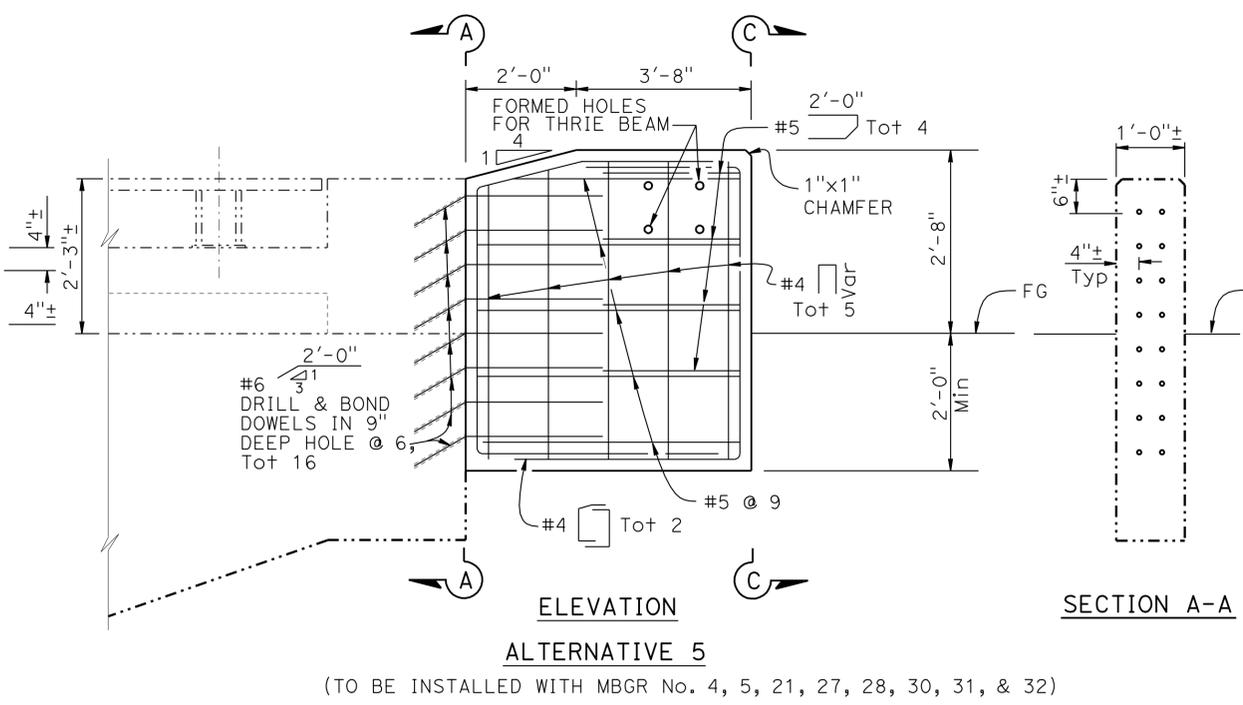
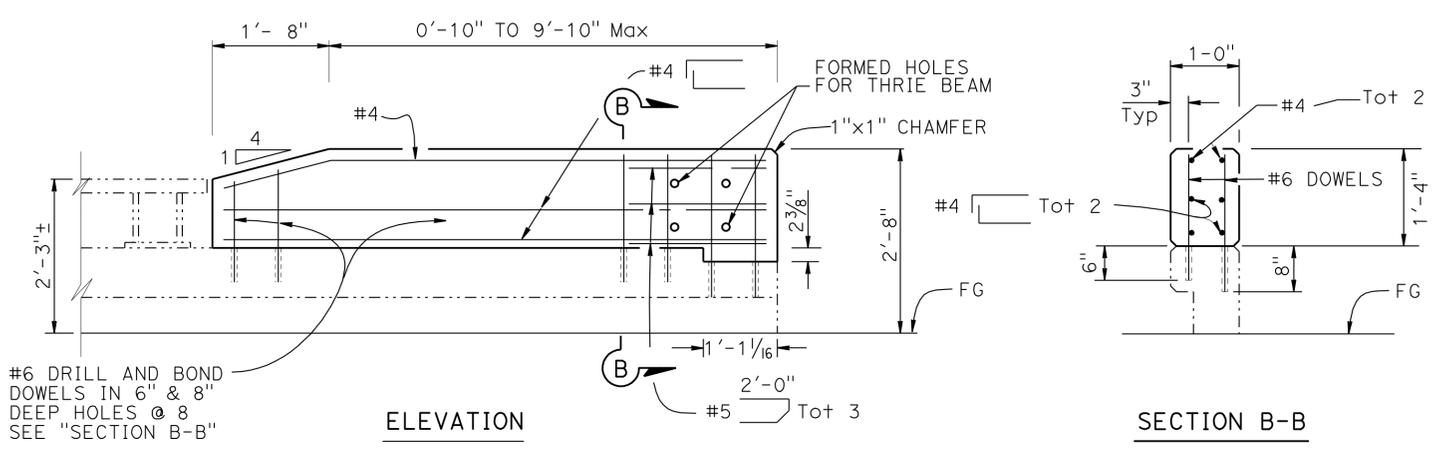
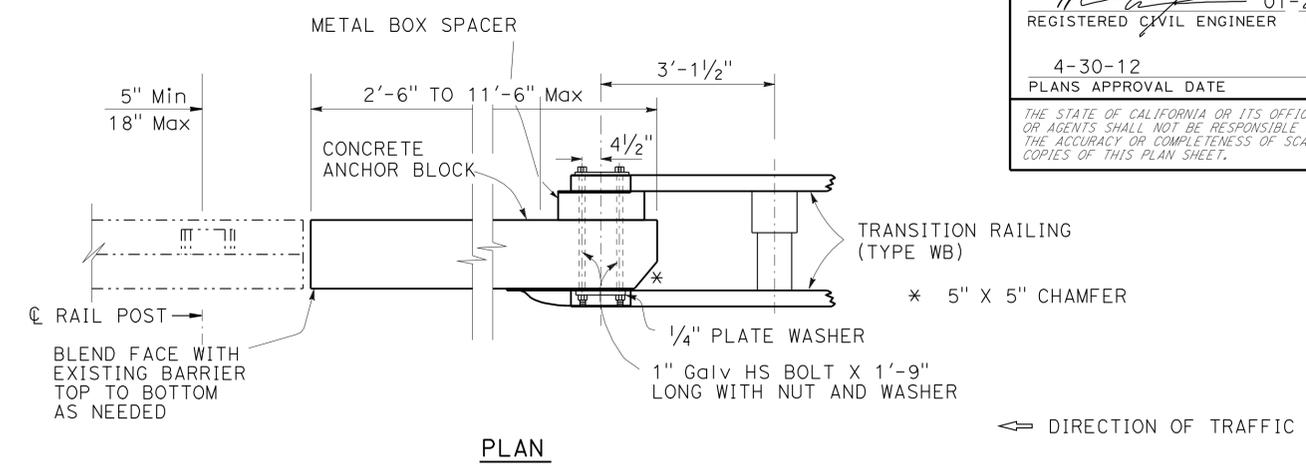
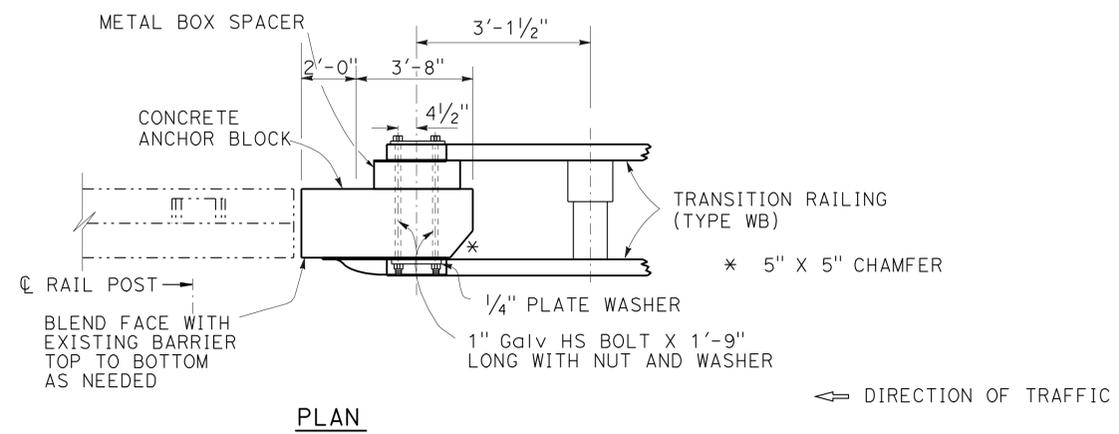
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR: KAZIM MAMDANI

REVISOR: NAPOLEON CHEWE, MARVIN A. CANTON

CALCULATED/DESIGNED BY: CHECKED BY:

DATE REVISED:



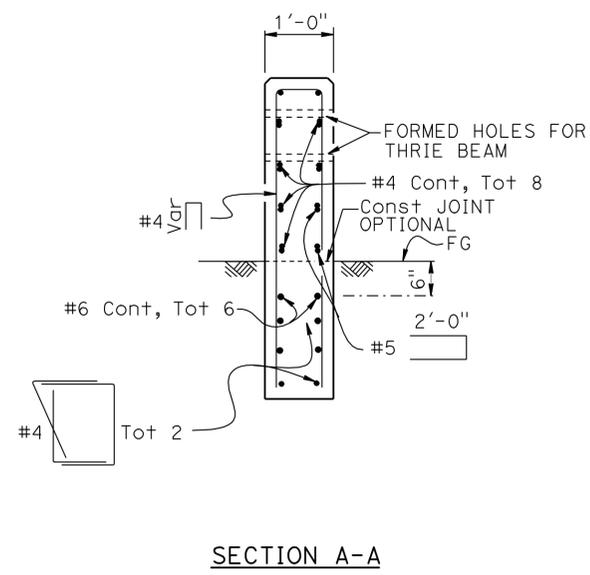
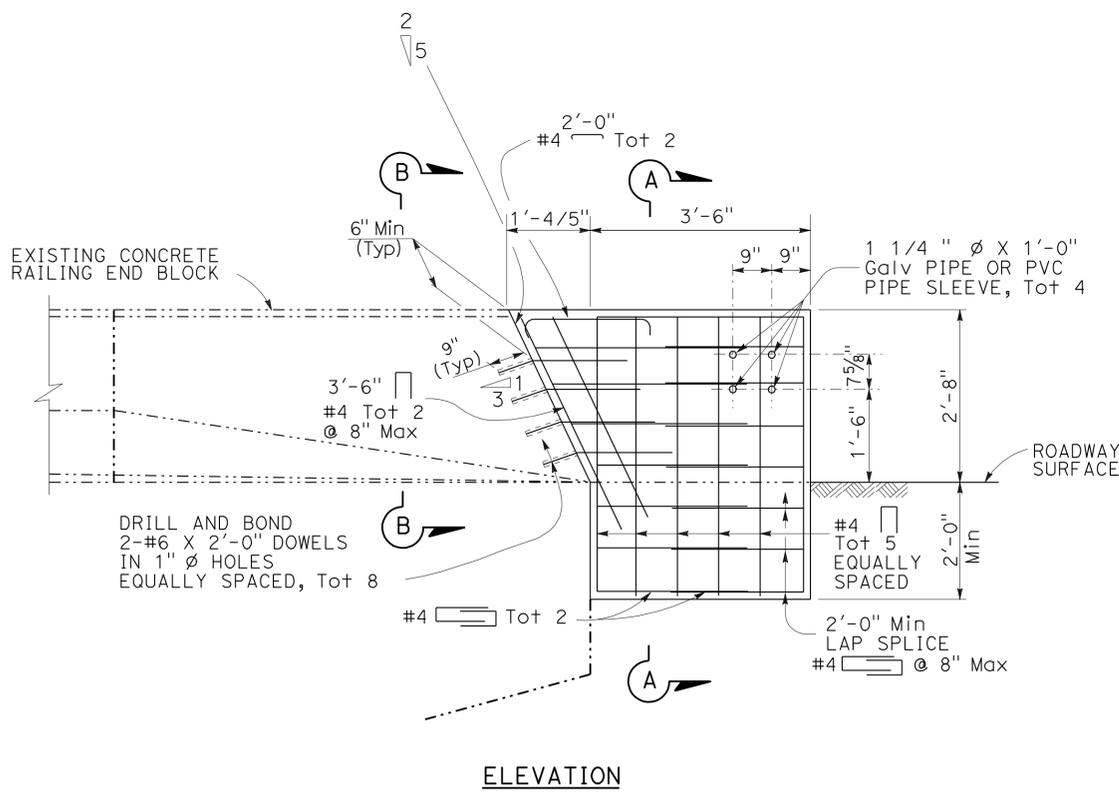
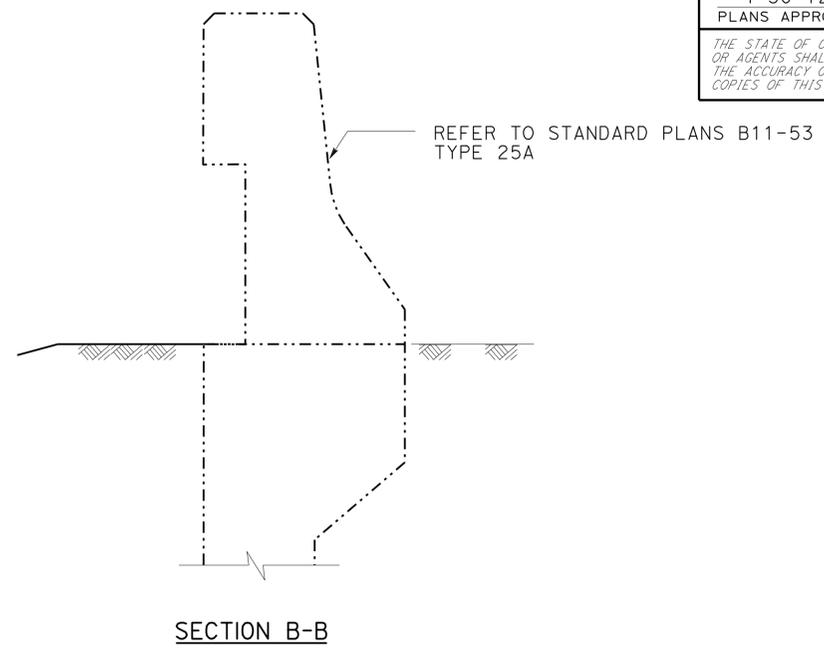
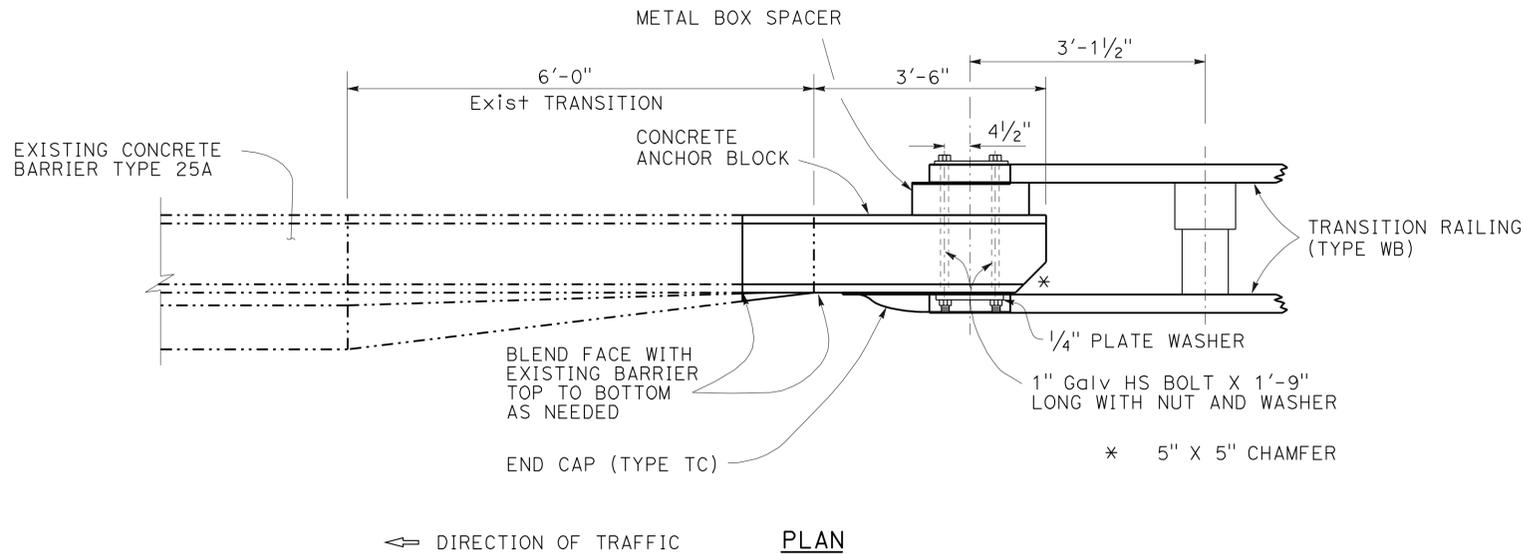
LEGEND:
 - - - - - INDICATES EXISTING STRUCTURE
 _____ INDICATES NEW STRUCTURE

NOTE:
 1- CUT AND REMOVE EXISTING TYPE 9 RAILING AND BAGR AS REQUIRED

ANCHOR BLOCK, TYPE 9

CONSTRUCTION DETAILS
 NO SCALE
C-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	8	116
			01-25-12		
REGISTERED CIVIL ENGINEER			DATE		
4-30-12			PLANS APPROVAL DATE		
					
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ANCHOR BLOCK, TYPE 25
(TO BE INSTALLED WITH MBGR No. 17,18, 19, 20, 21, 22 & 24)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
 FUNCTIONAL SUPERVISOR: KAZIM MAMDANI
 CALCULATED/DESIGNED BY: MARVIN A. CANTON
 CHECKED BY: MARVIN A. CANTON
 REVISED BY: MARVIN A. CANTON
 DATE REVISED:

CONSTRUCTION DETAILS
NO SCALE
C-6

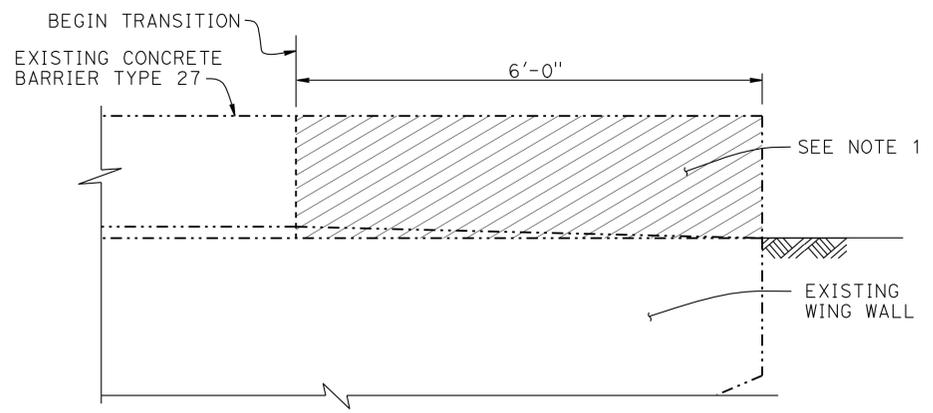
LAST REVISION
 DATE PLOTTED => 02-MAY-2012
 01-30-12
 TIME PLOTTED => 14:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	9	116

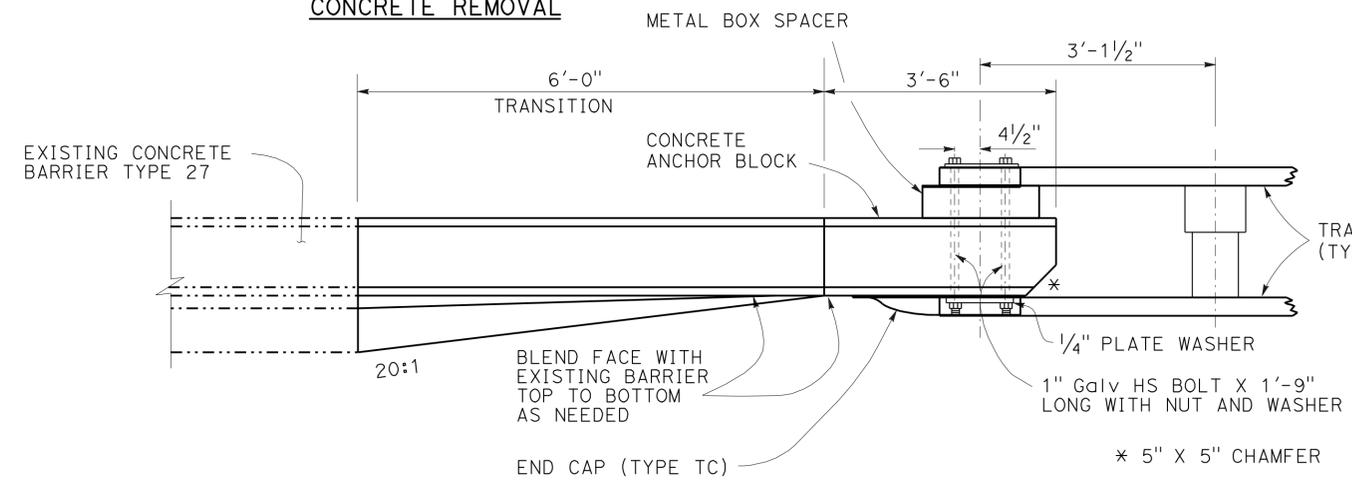
01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

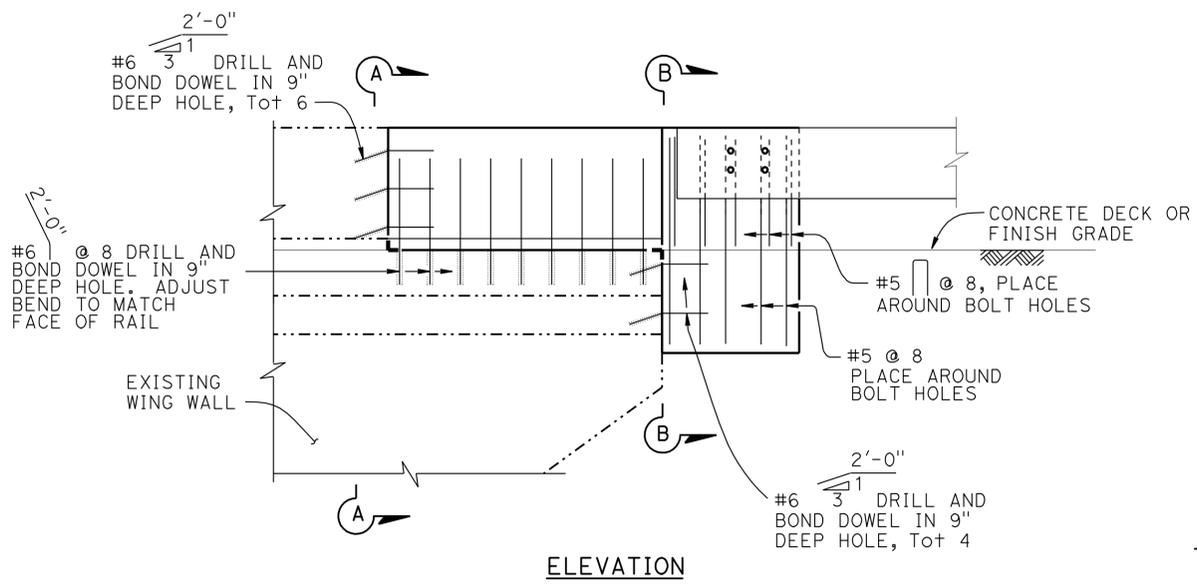
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CONCRETE REMOVAL

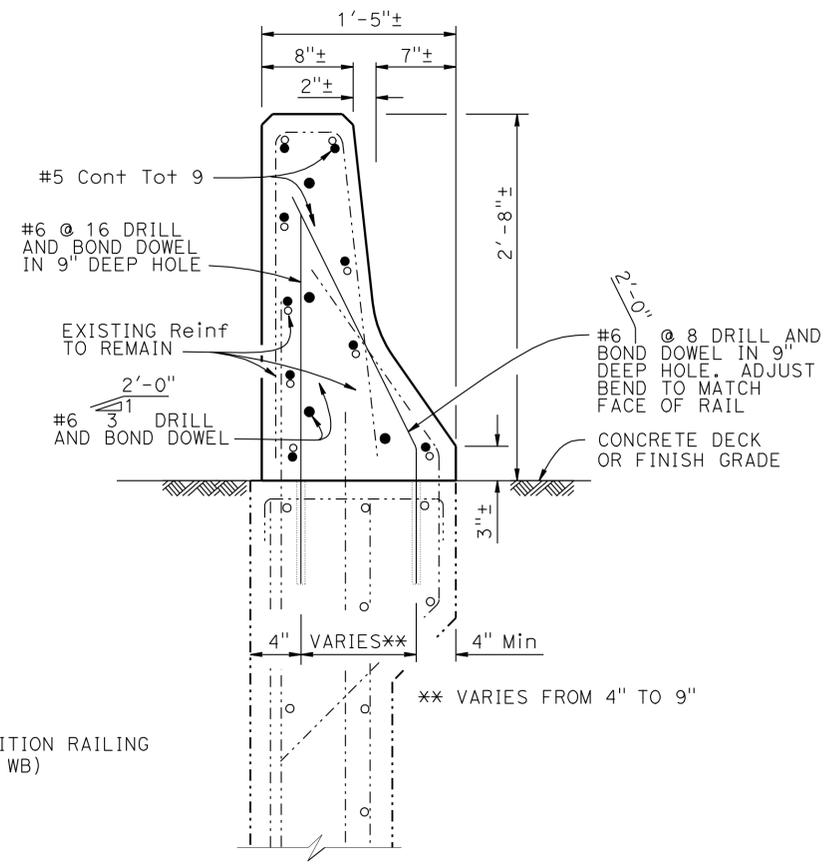


PLAN

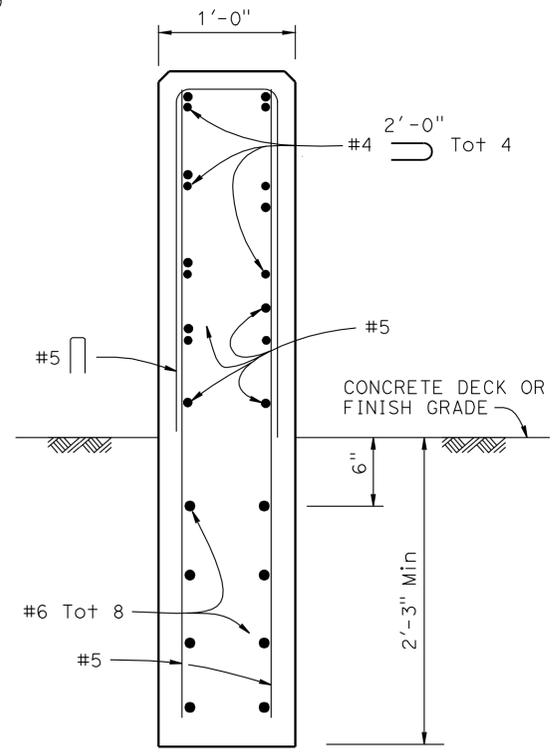


ELEVATION

ANCHOR BLOCK, TYPE 27
 (TO BE INSTALLED WITH MBGR No. 25)



SECTION A-A



SECTION B-B

- NOTES:**
- CUT AND REMOVE THE PORTION OF CONCRETE BARRIER TYPE 27 AS REQUIRED. EXISTING REINFORCEMENT TO REMAIN.
 - WINGWALL REINFORCEMENT TO REMAIN.

CONSTRUCTION DETAILS
 NO SCALE
C-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
 FUNCTIONAL SUPERVISOR: KAZIM MAMDANI
 DESIGNED BY: MARVIN A. CANTON
 CHECKED BY: NAPOLEON CHEWE
 REVISIONS: (None listed)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	11	116

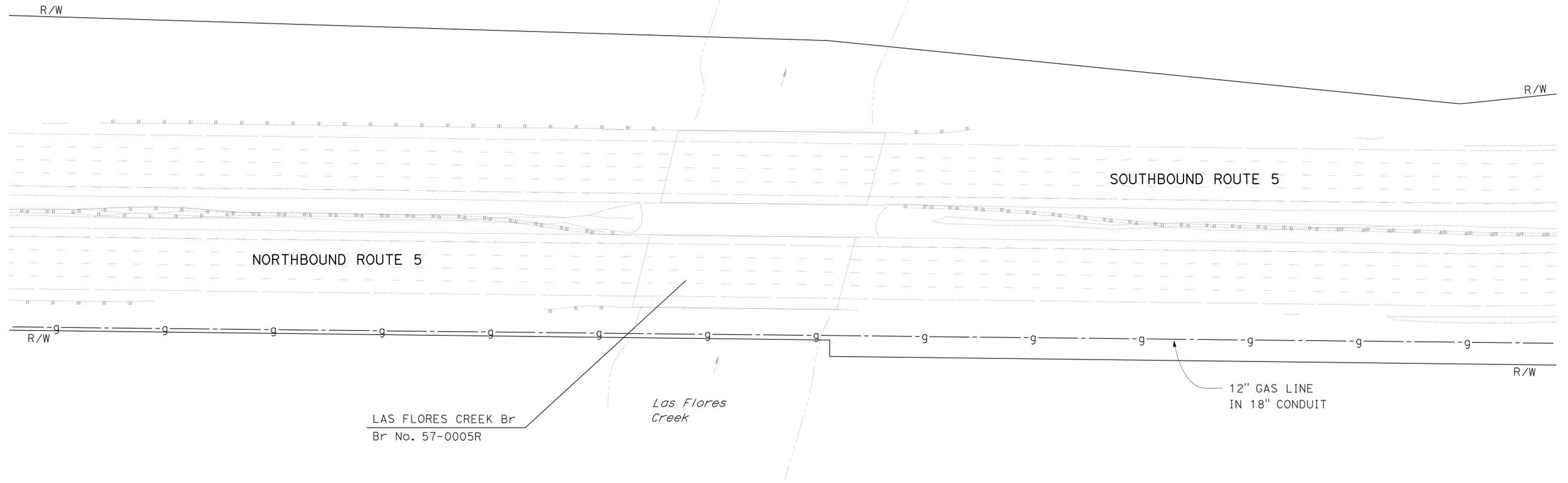
KALE 01-26-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
VASANT KALE
 No. C61372
 Exp. 09-30-13
 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:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM OWNER'S RECORDS AND/OR STATE SURVEYS.



LOCATION 2
PM 61.4

UTILITY PLAN
SCALE: 1" = 50'
U-2

APPROVED FOR UTILITY INFORMATION ONLY

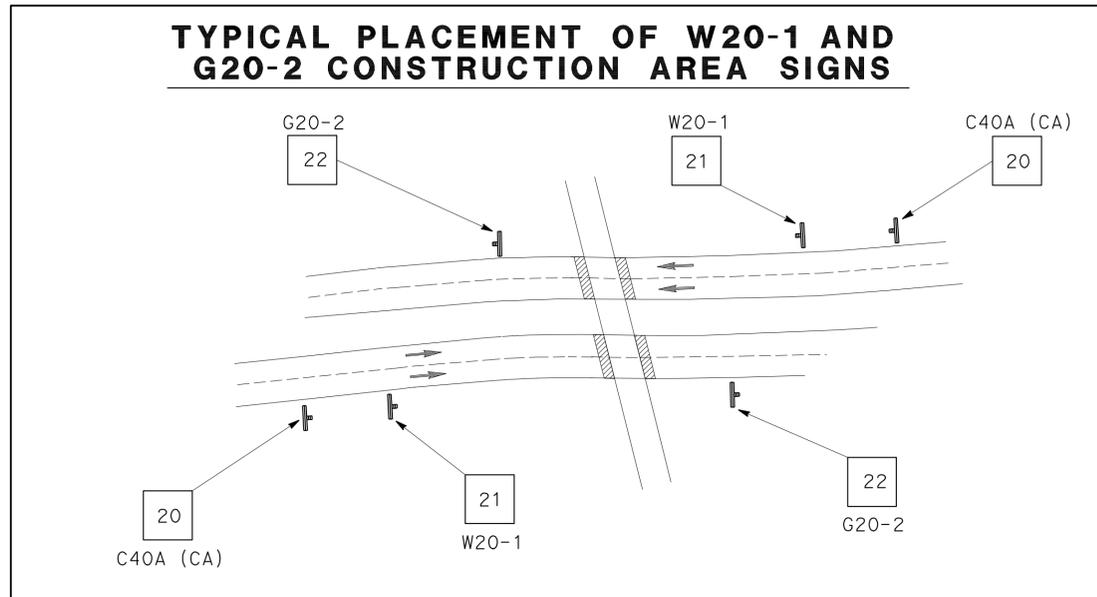
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
 FUNCTIONAL SUPERVISOR: ABU-BAKR AL-JAFRI
 CALCULATED-DESIGNED BY: VASANT KALE
 REVISOR: NAPOLEON CHEWE
 DATE REVISOR: VASANT KALE

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SEE TRAFFIC HANDLING PLANS FOR ADDITIONAL CONSTRUCTION AREA SIGNS

LEGEND:

- XX - CONSTRUCTION AREA SIGNS
- ← - DIRECTION OF TRAVEL
- ▨ - INDICATES LIMITS OF ROAD WORK



CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
20		C40A (CA)	48" x 48"	TRAFFIC FINES DOUBLED IN WORK ZONES	PORTABLE	8
21	W20-1		48" x 48"	ROAD WORK AHEAD	PORTABLE	8
22	G20-2		36" x 18"	END ROAD WORK	PORTABLE	8

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

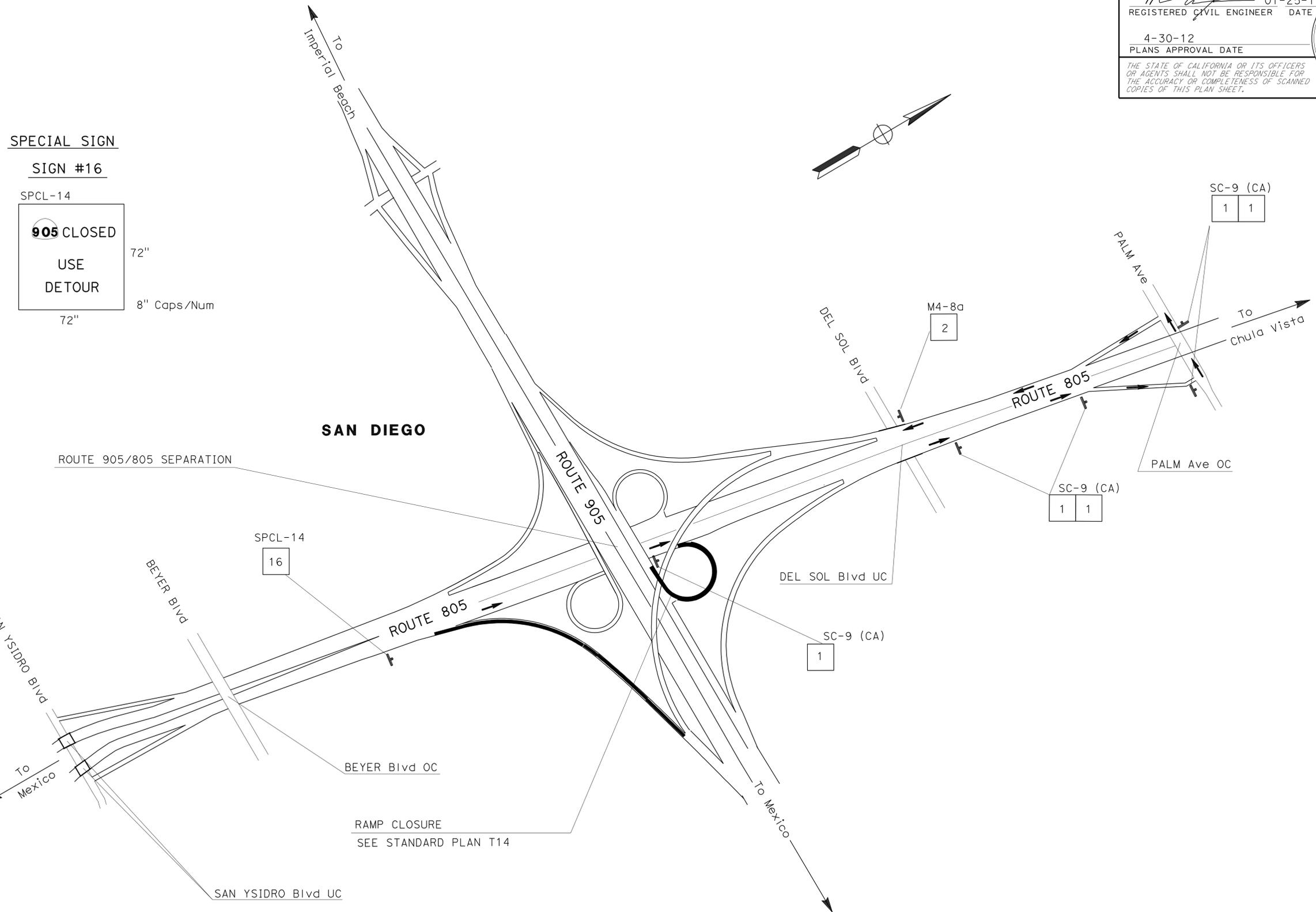
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR CAMILLE ABOUFADEL
 CALCULATED/DESIGNED BY CHECKED BY
 DON LUONG SHAHIN ADIBI
 REVISED BY DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	14	116

<i>M. Cant</i>	01-25-12
REGISTERED CIVIL ENGINEER	DATE
4-30-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
No. C69855
Exp. 09-30-12
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.



SPECIAL SIGN
SIGN #16
 SPCL-14
 905 CLOSED
 USE
 DETOUR
 72" x 72"
 8" Caps/Num

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
FUNCTIONAL SUPERVISOR KAZIM MANDANI
CALCULATED/DESIGNED BY CHECKED BY
JIM ALSHEIKH MARVIN CANTON
REVISED BY DATE REVISED

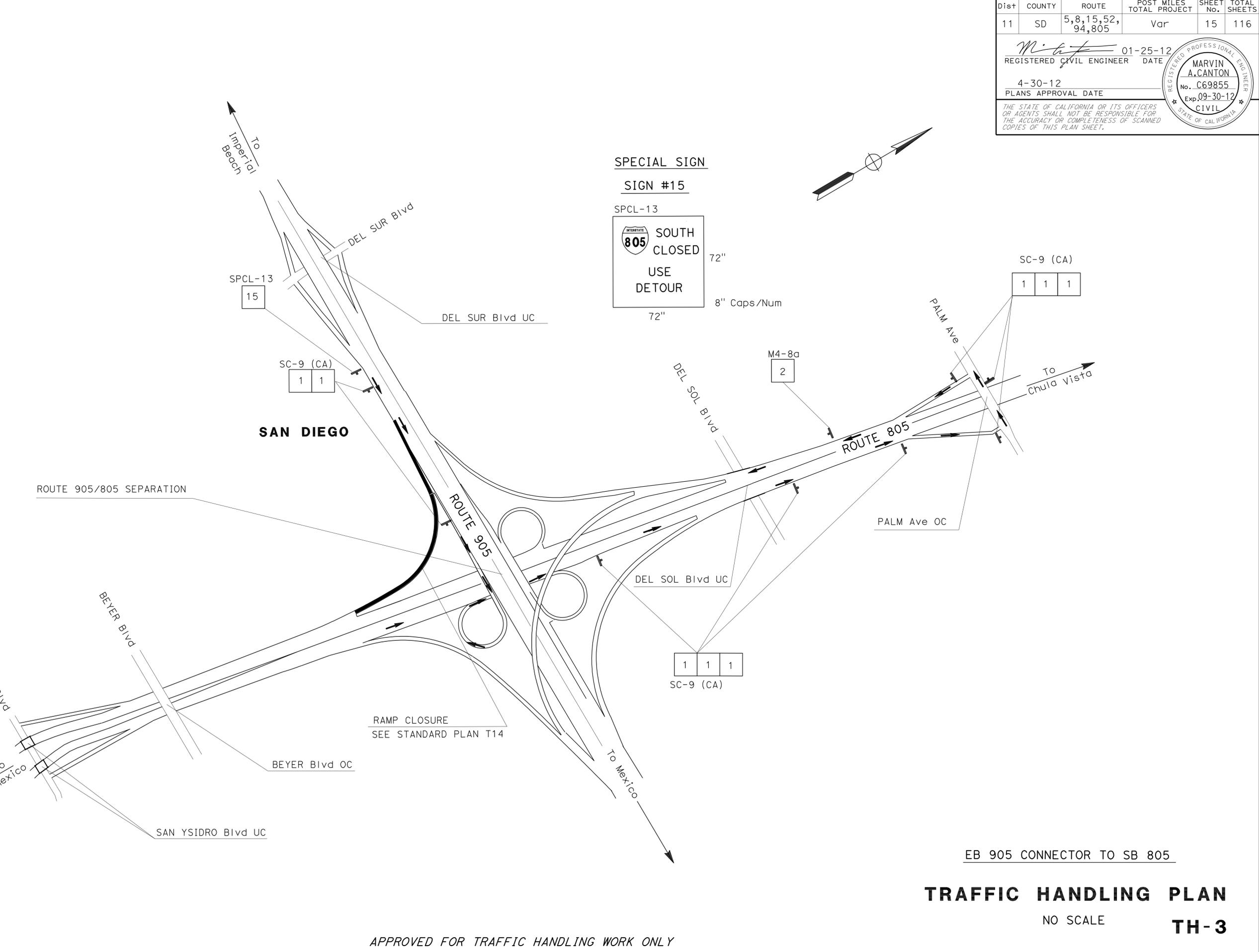
NB 805 CONNECTOR TO ROUTE 905
TRAFFIC HANDLING PLAN
 NO SCALE
TH-2

APPROVED FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION | DATE PLOTTED => 02-MAY-2012
 01-30-12 | TIME PLOTTED => 14:02

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR KAZIM MANDANI	CALCULATED/DESIGNED BY	JIM ALSHEIKH	REVISOR	DATE
CHECKED BY	MARVIN CANTON			



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	15	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.

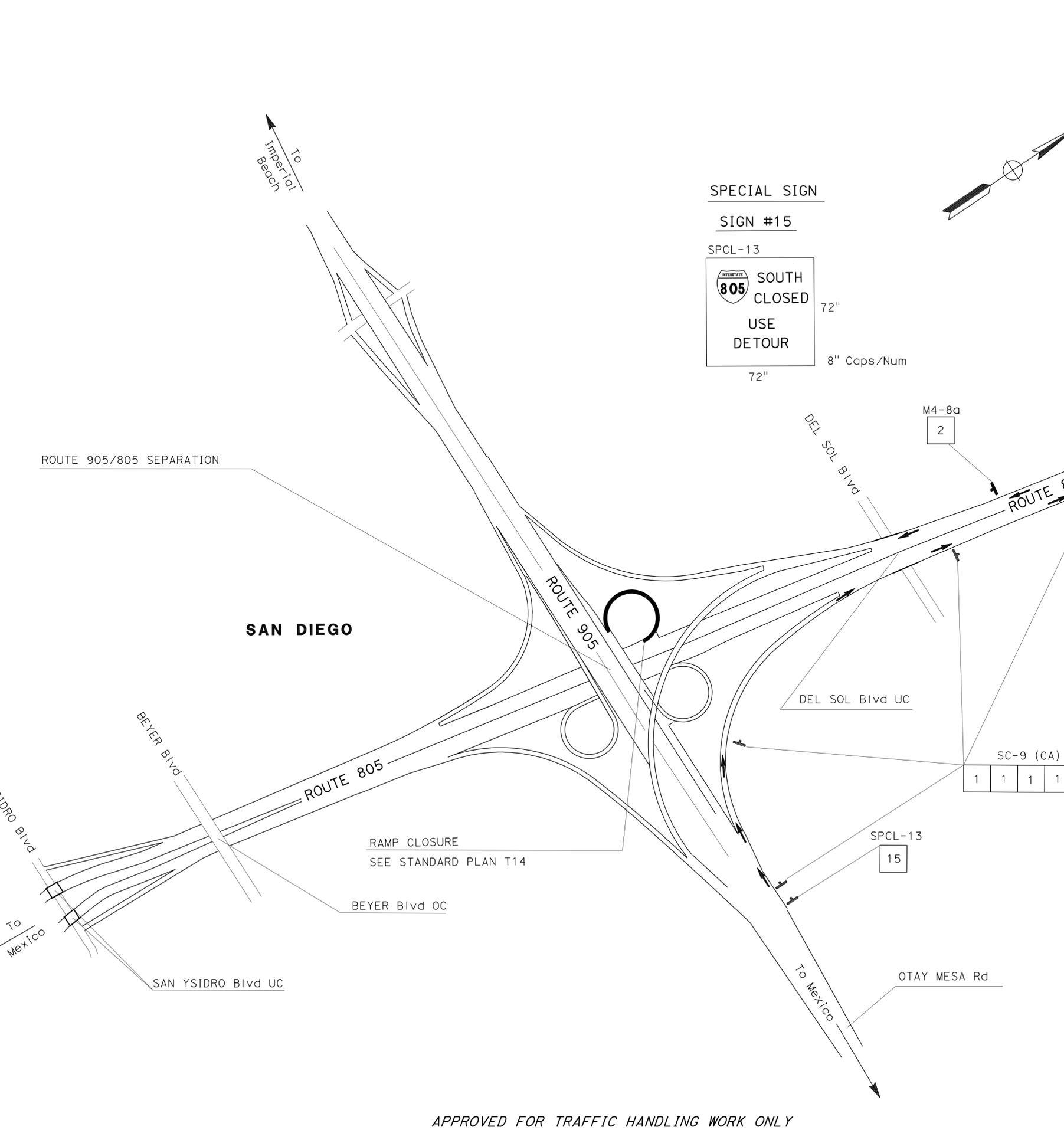
EB 905 CONNECTOR TO SB 805
TRAFFIC HANDLING PLAN
 NO SCALE
TH-3

APPROVED FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION DATE PLOTTED => 02-MAY-2012
 01-30-12 TIME PLOTTED => 14:02

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR KAZIM MANDANI	CALCULATED/DESIGNED BY	JIM ALSHEIKH	REVISOR	DATE
CHECKED BY	MARVIN CANTON			



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	16	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.

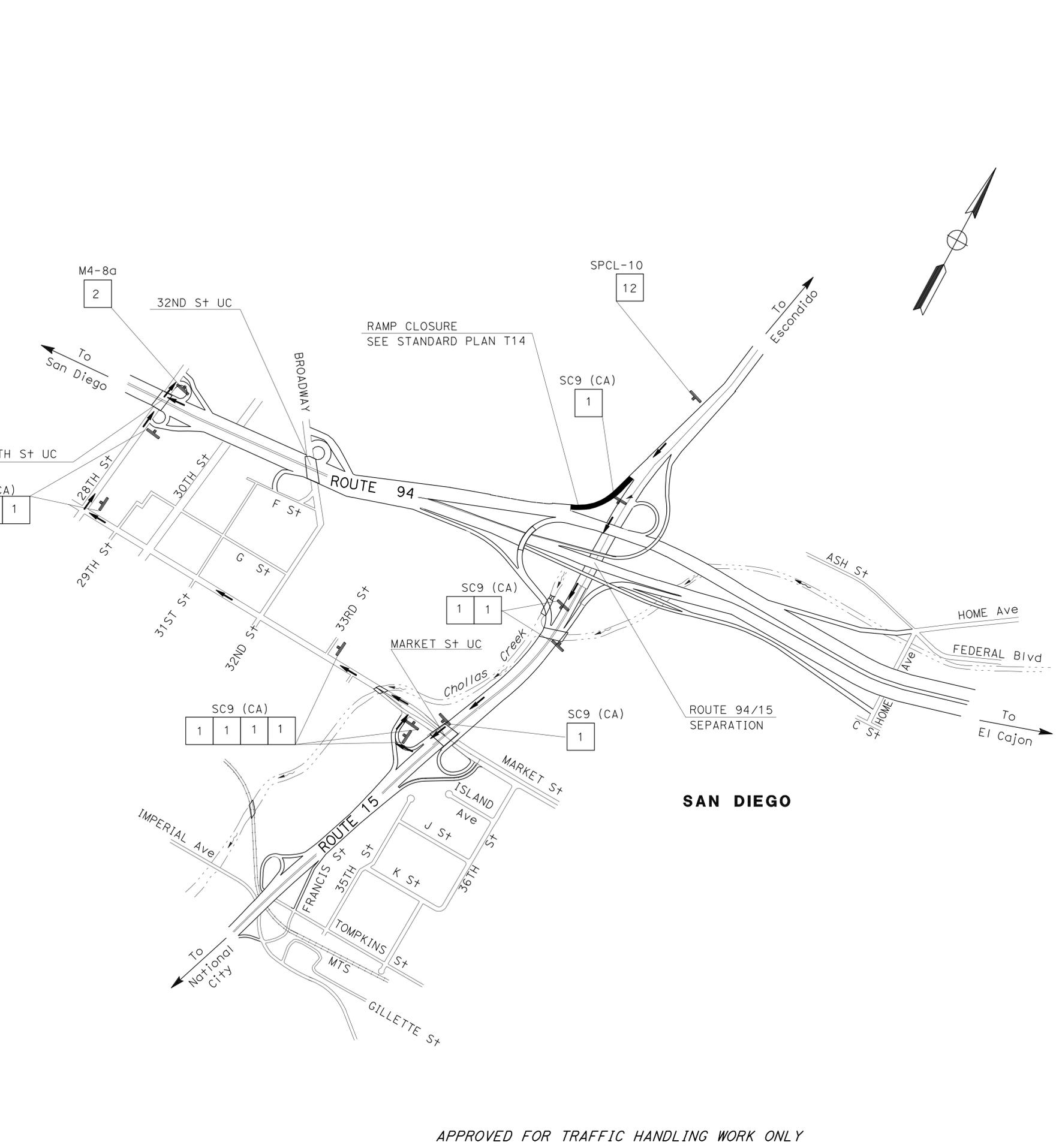
WB 905 CONNECTOR TO SB 805
TRAFFIC HANDLING PLAN
 NO SCALE
TH-4

APPROVED FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION | DATE PLOTTED => 02-MAY-2012
 01-30-12 | TIME PLOTTED => 16:01

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR KAZIM MANDANI	CALCULATED-DESIGNED BY CHECKED BY	JIM ALSHEIKH MARVIN CANTON	REVISED BY DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	19	116

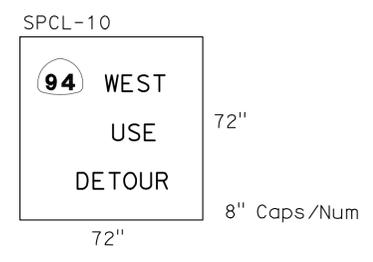
01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL

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SPECIAL SIGN

SIGN #12



SB 15 CONNECTOR TO WB 94

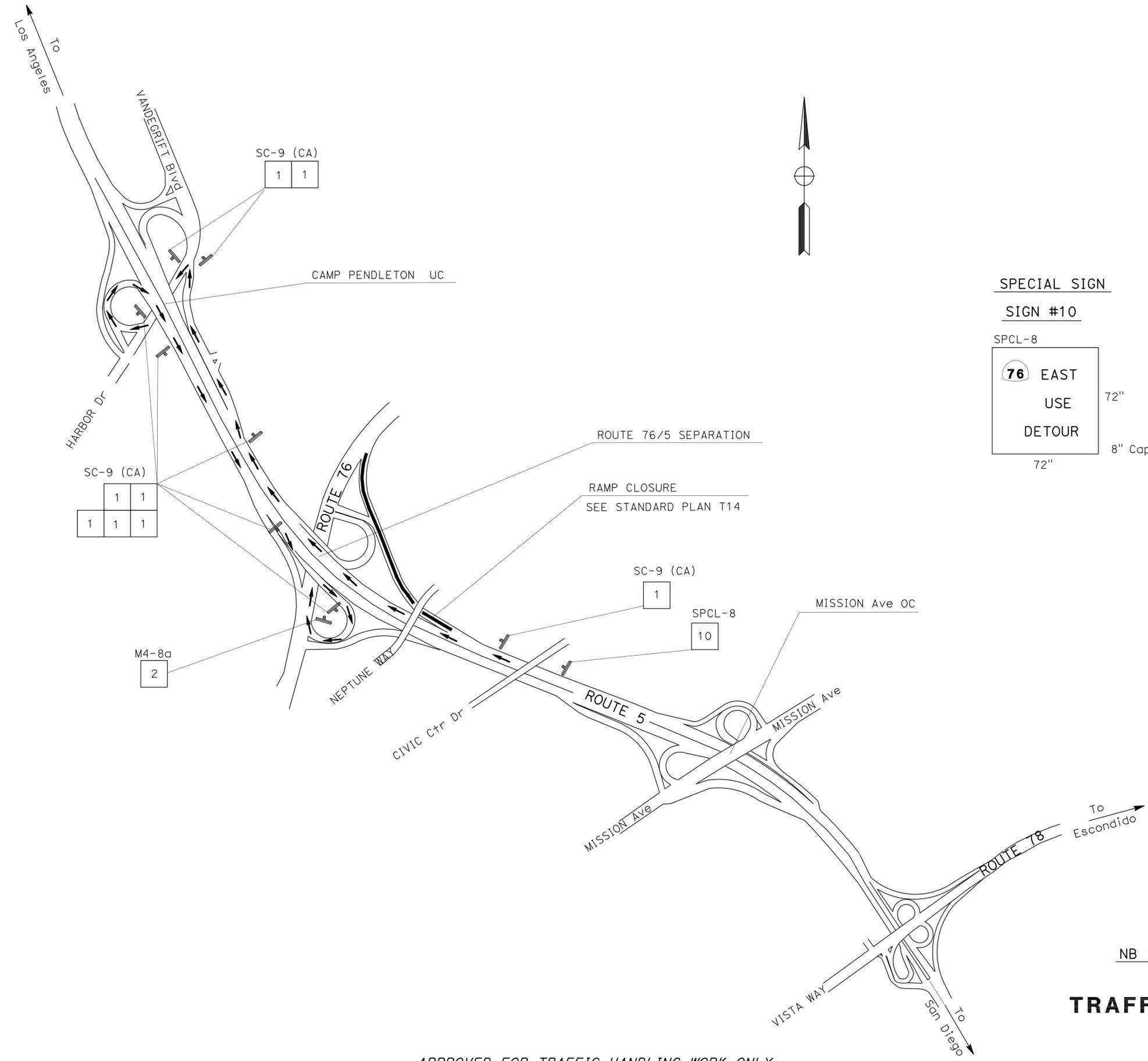
TRAFFIC HANDLING PLAN
 NO SCALE
TH-7

APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	20	116
			01-25-12	DATE	
REGISTERED CIVIL ENGINEER					
4-30-12			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
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	CHECKED BY	JIM ALSHEIKH
			MARVIN CANTON



SPECIAL SIGN
SIGN #10
 SPCL-8

76 EAST
 USE
 DETOUR

72"
 8" Caps/Num
 72"

NB 5 CONNECTOR TO ROUTE 76

TRAFFIC HANDLING PLAN
 NO SCALE
TH-8

APPROVED FOR TRAFFIC HANDLING WORK ONLY

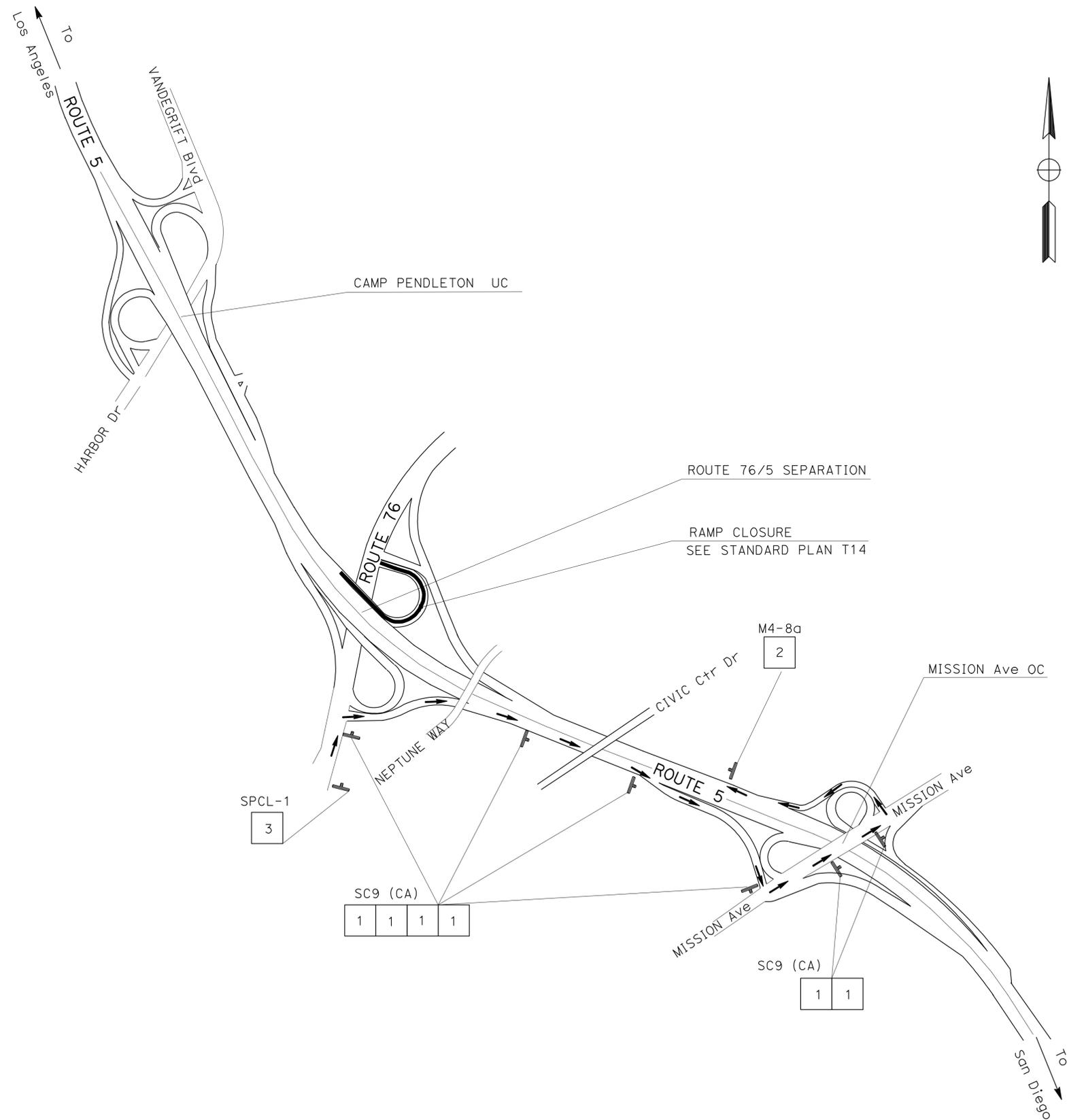
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 DATE PLOTTED => 02-MAY-2012
 TIME PLOTTED => 14:03

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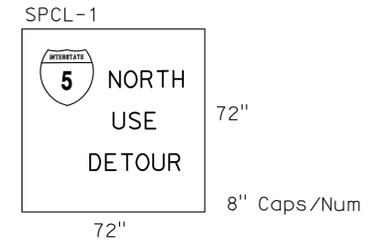
<i>M. Canton</i>	01-25-12
REGISTERED CIVIL ENGINEER	DATE
4-30-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
No. C69855
Exp. 09-30-12
CIVIL

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SPECIAL SIGN
SIGN #3



EB 76 CONNECTOR TO NB 5

TRAFFIC HANDLING PLAN
NO SCALE
TH-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	JIM ALSHEIKH	JIM ALSHEIKH
		MARVIN CANTON	MARVIN CANTON
		CHECKED BY	DATE REVISION

APPROVED FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION DATE PLOTTED => 02-MAY-2012 TIME PLOTTED => 14:47

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR
 KAZIM MANDANI

CALCULATED/DESIGNED BY
 CHECKED BY

JIM ALSHEIKH
 MARVIN CANTON

REVISED BY
 DATE

REVISED BY
 DATE

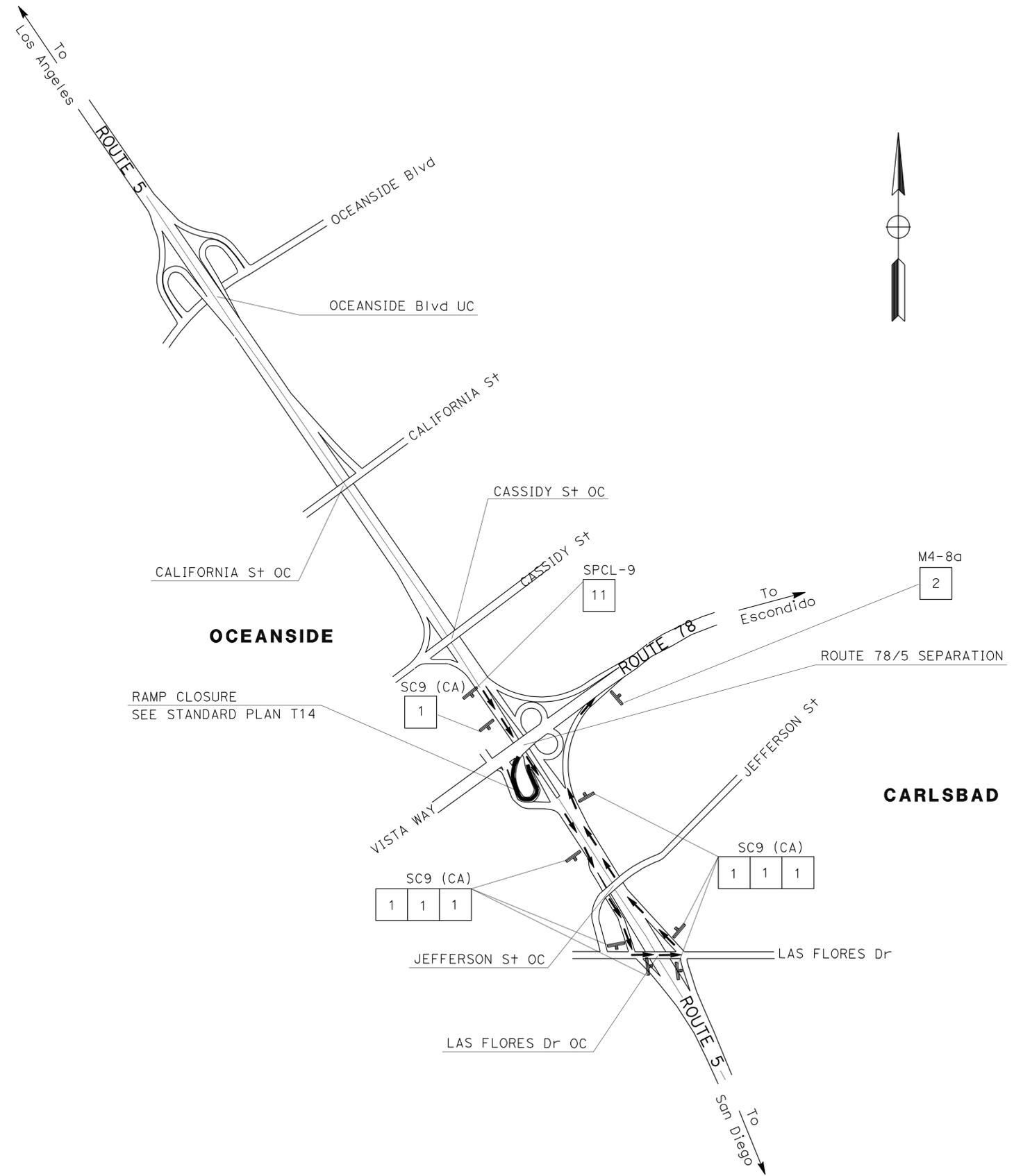
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	22	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE

4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

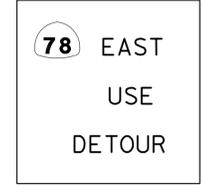
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SPECIAL SIGN

SIGN #11

SPCL-9



72"

8" Caps/Num

72"

SB 5 CONNECTOR TO ROUTE 78

TRAFFIC HANDLING PLAN

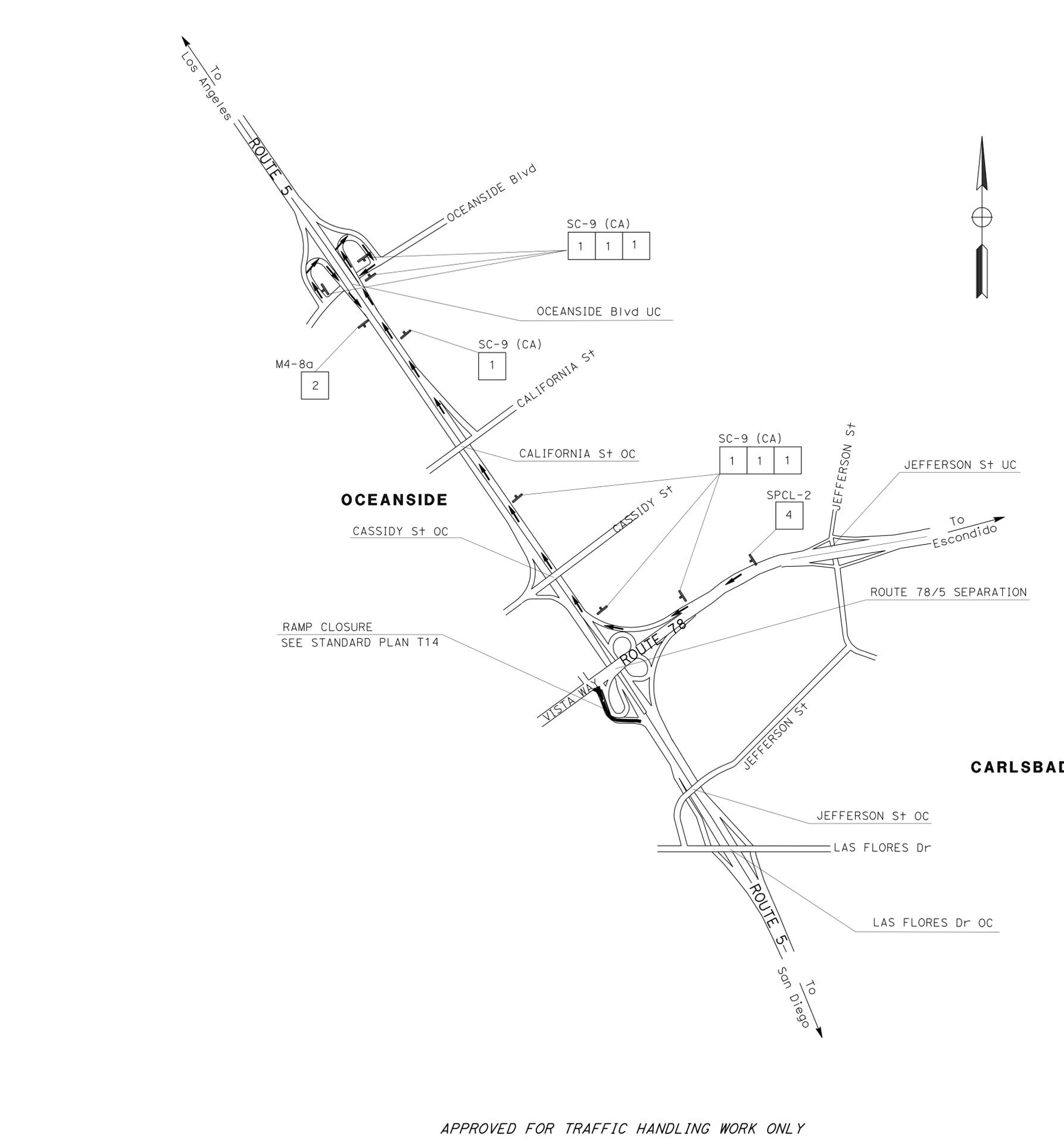
NO SCALE

TH-10

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR KAZIM MANDANI	CALCULATED/DESIGNED BY CHECKED BY	JIM ALSHEIKH MARVIN CANTON	REVISED BY DATE REVISED
--	--------------------------------------	-------------------------------	----------------------------

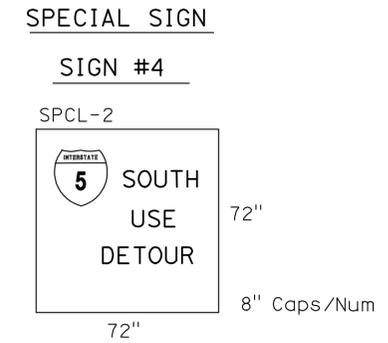


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	23	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.



WB 78 CONNECTOR TO SB 5

TRAFFIC HANDLING PLAN
 NO SCALE
TH-11

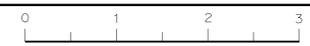
APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

BORDER LAST REVISED 7/2/2010

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 DGN FILE => 1100020184md012.dgn

RELATIVE BORDER SCALE
 IS IN INCHES



UNIT 2786

PROJECT NUMBER & PHASE

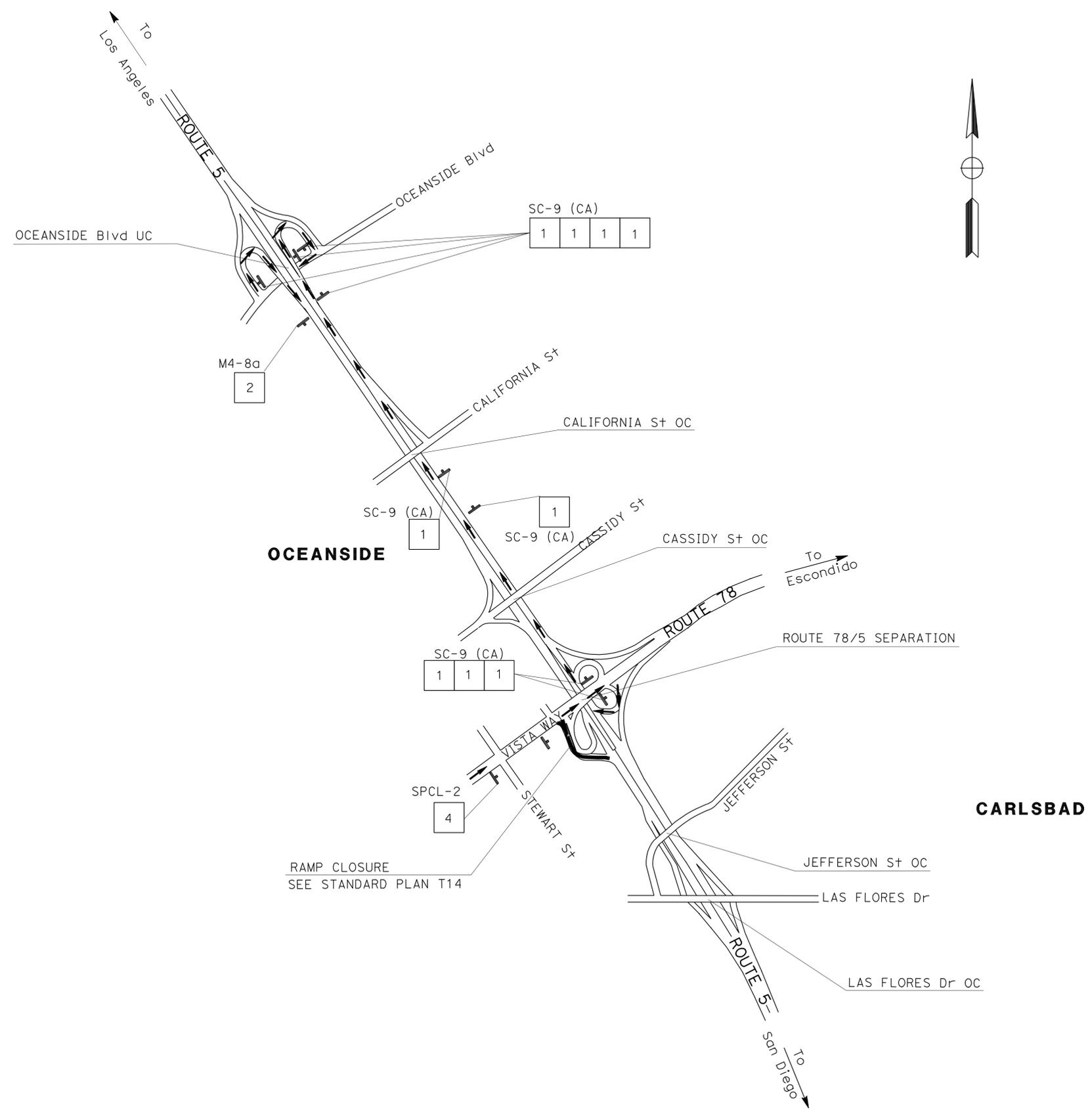
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	24	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

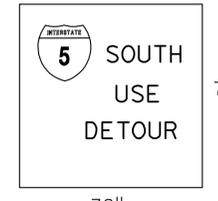
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SPECIAL SIGN

SIGN #4

SPCL-2



72"

8" Caps/Num

72"

TRAFFIC HANDLING PLAN

NO SCALE

TH-12

EB 78 CONNECTOR TO SB 5

APPROVED FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION DATE PLOTTED => 02-MAY-2012
 TIME PLOTTED => 14:47

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR KAZIM MANDANI	CHECKED BY	DESIGNED BY	REVISOR	DATE
			JIM ALSHEIKH	
			MARVIN CANTON	

REVISOR	DATE

USERNAME => s124496	PROJECT NUMBER & PHASE
DGN FILE => 1100020184md013 .dgn	11000201841

RELATIVE BORDER SCALE IS IN INCHES	UNIT 2786
0 1 2 3	

APPROVED FOR TRAFFIC HANDLING WORK ONLY	PROJECT NUMBER & PHASE
	11000201841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	25	116

 01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

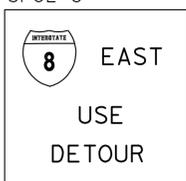
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



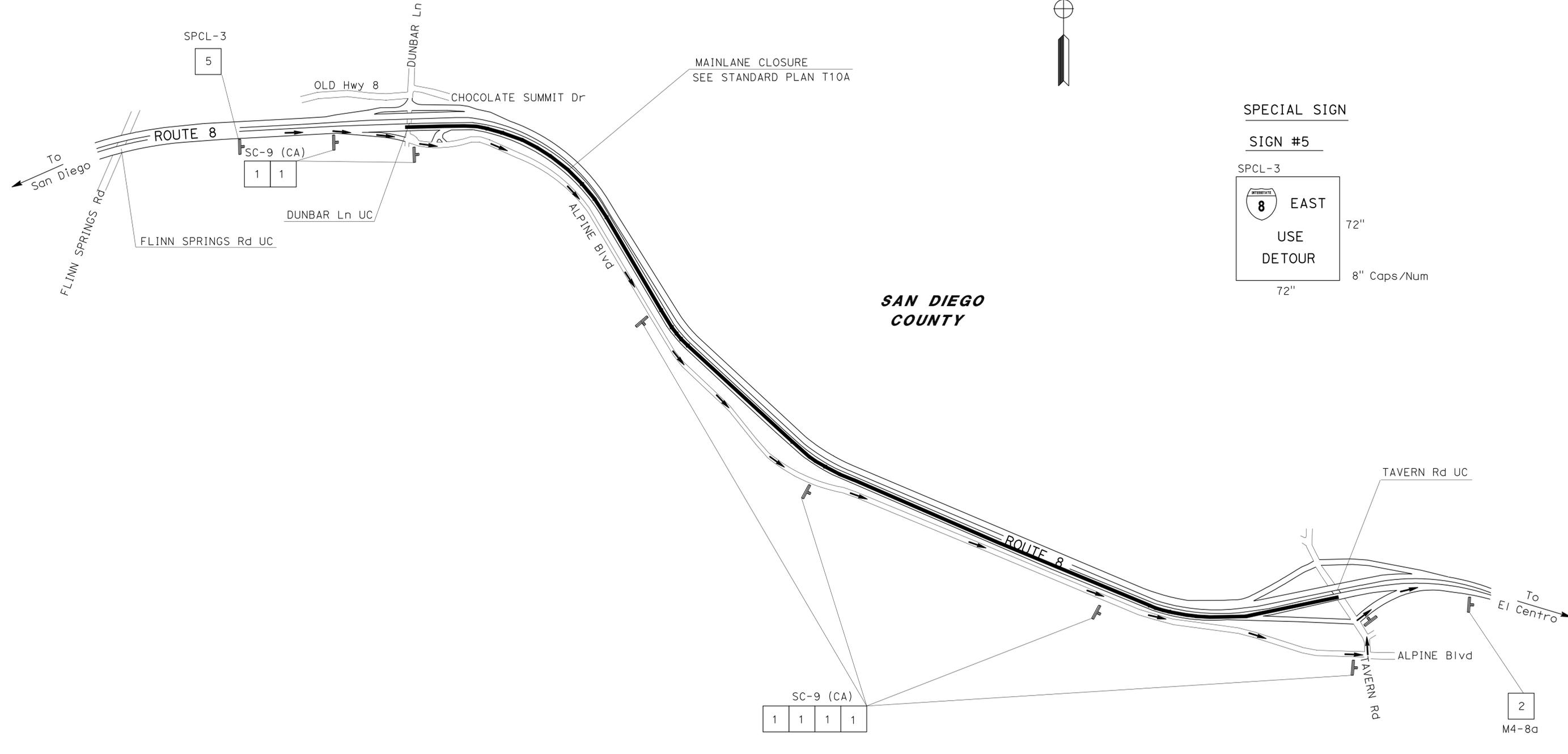
SPECIAL SIGN

SIGN #5

SPCL-3



72" x 72" 8" Caps/Num



EB 8 MAIN LANE FULL CLOSURE

TRAFFIC HANDLING PLAN

NO SCALE

TH-13

LAST REVISION DATE PLOTTED => 02-MAY-2012
 TIME PLOTTED => 14:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	26	116

<i>M. Cant</i>	01-25-12
REGISTERED CIVIL ENGINEER	DATE
4-30-12	
PLANS APPROVAL DATE	

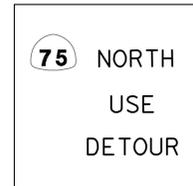
REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
No. C69855
Exp. 09-30-12
CIVIL

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.

SPECIAL SIGN

SIGN #9

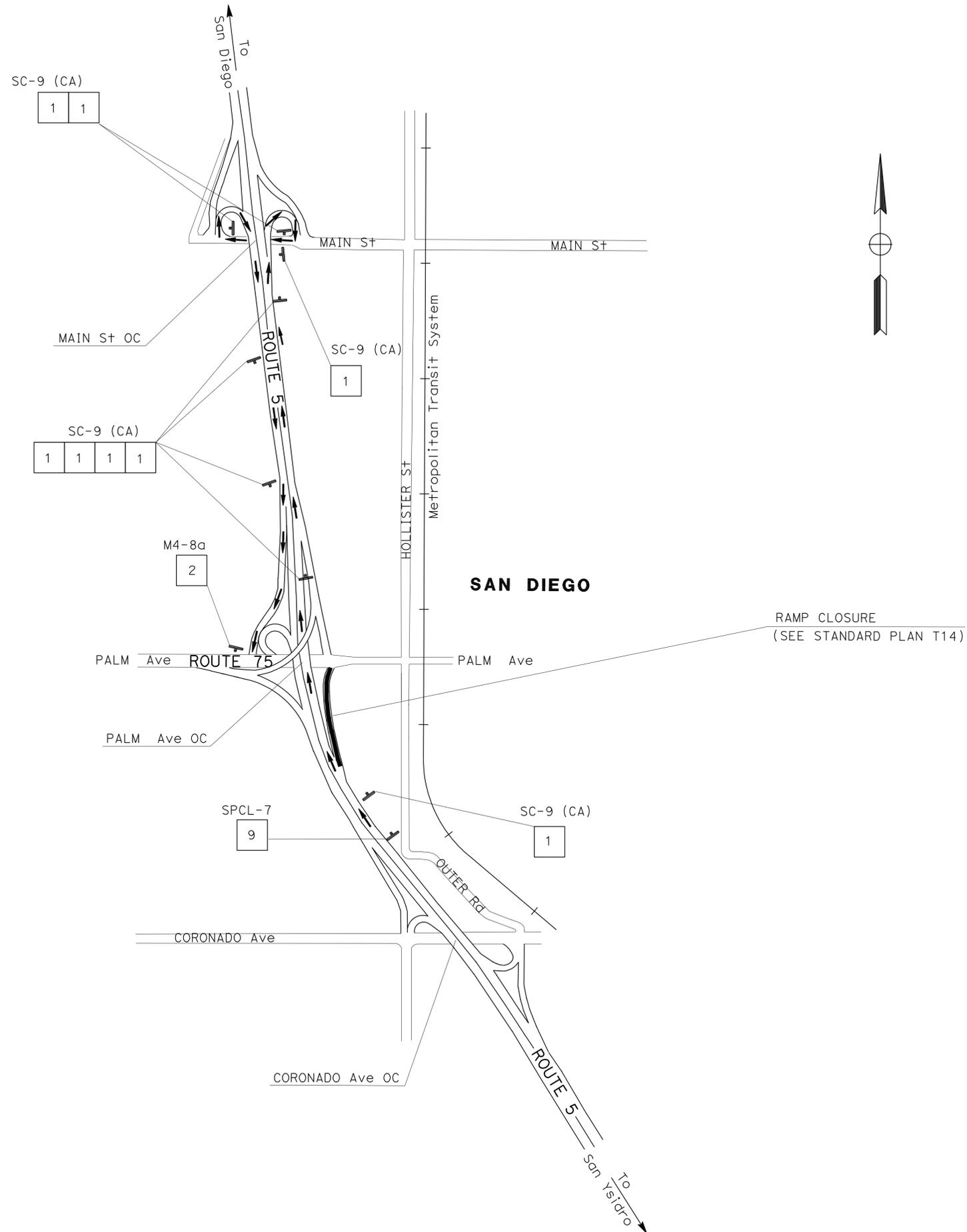
SPCL-7



72"

8" Caps/Num

72"



SAN DIEGO

RAMP CLOSURE
(SEE STANDARD PLAN T14)

NB 5 CONNECTOR TO ROUTE 75

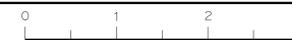
TRAFFIC HANDLING PLAN

NO SCALE

TH-14

APPROVED FOR TRAFFIC HANDLING WORK ONLY

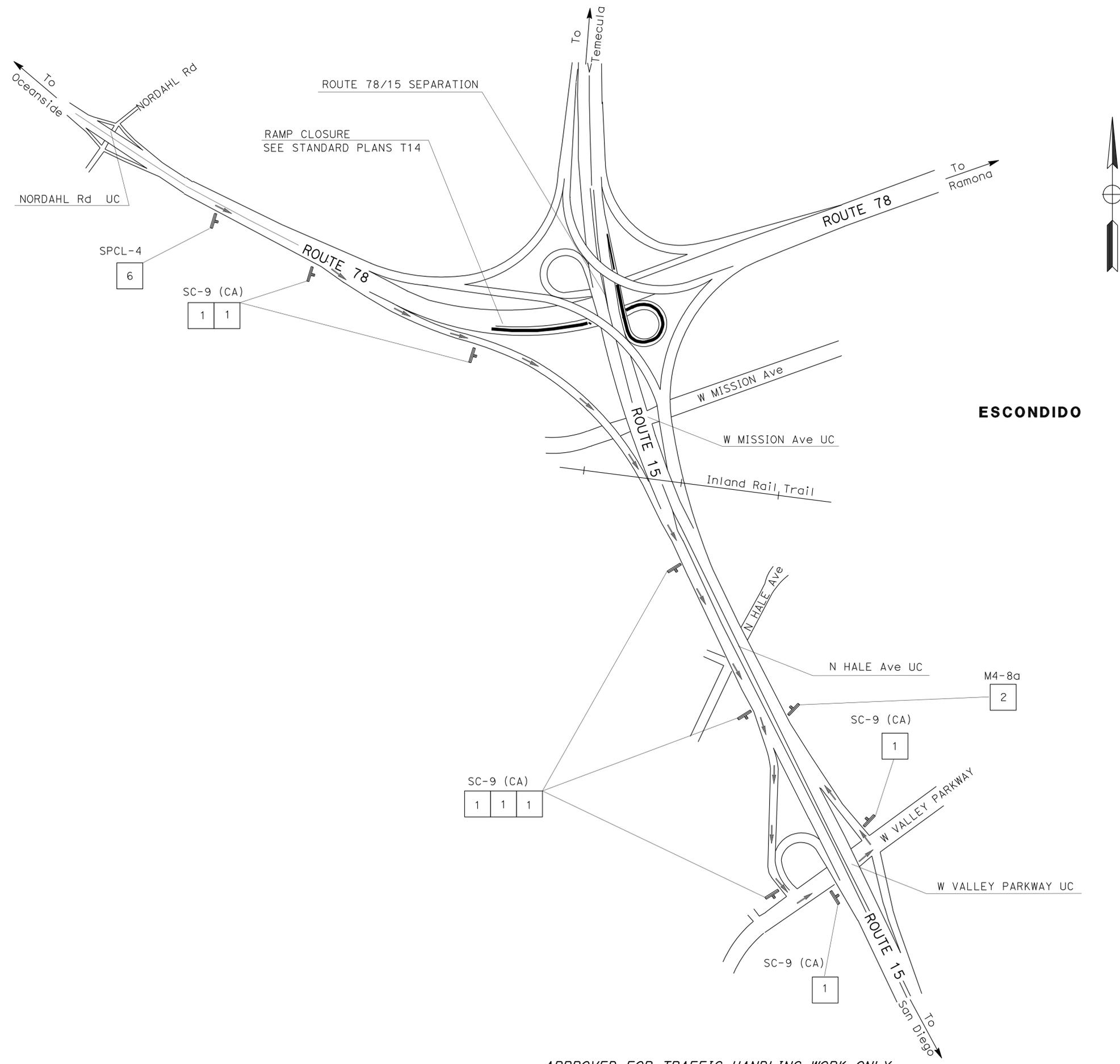
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	CHECKED BY	JIM ALSHEIKH
			MARVIN CANTON
			DATE REVISION



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	27	116

Marvin A. Canton 01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	JIM ALSHEIKH	JIM ALSHEIKH
		MARVIN CANTON	MARVIN CANTON
		CHECKED BY	DATE REVISED



SPECIAL SIGN

SIGN #6

SPCL-4



72"

8" Caps/Num

72"

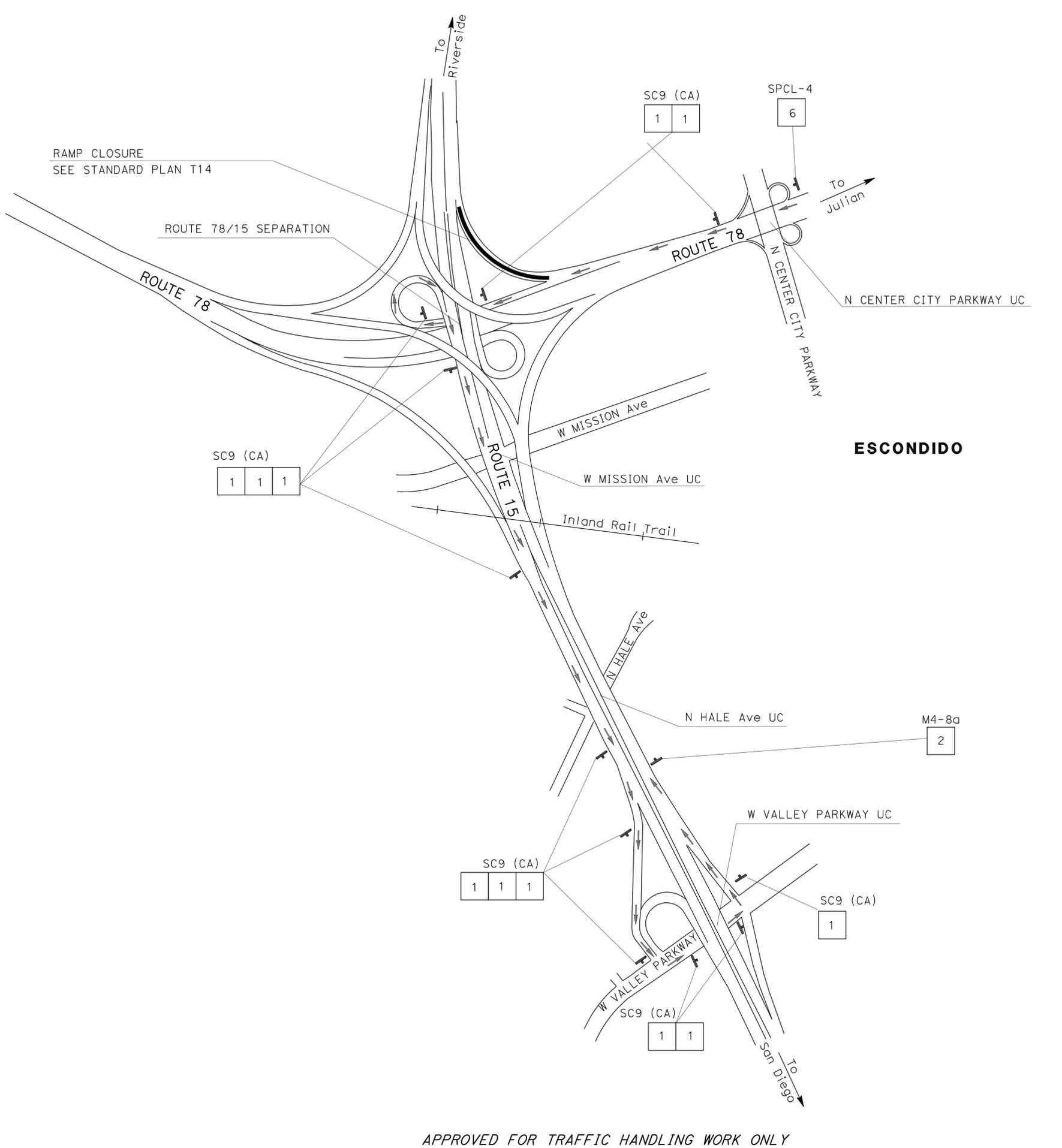
EB 78 CONNECTOR TO NB 15

TRAFFIC HANDLING PLAN
 NO SCALE
TH-15

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR KAZIM MANDANI	CALCULATED/DESIGNED BY CHECKED BY	JIM ALSHEIKH MARVIN CANTON	REVISED BY DATE REVISED
--	--------------------------------------	-------------------------------	----------------------------

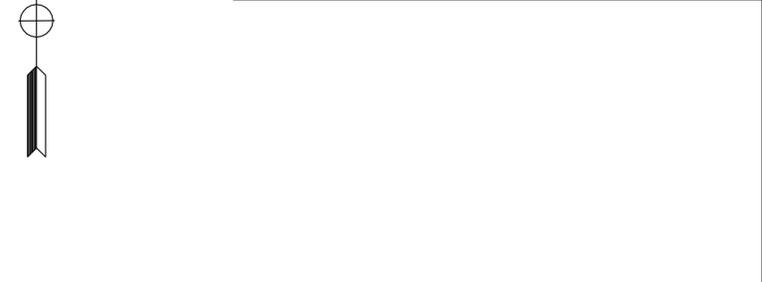


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	28	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

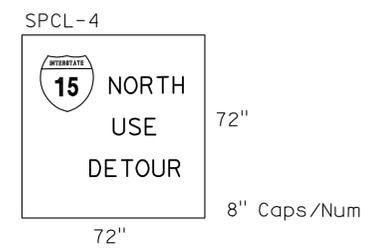
REGISTERED PROFESSIONAL ENGINEER
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

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.



SPECIAL SIGN

SIGN #6



ESCONDIDO

WB 78 CONNECTOR TO NB 15

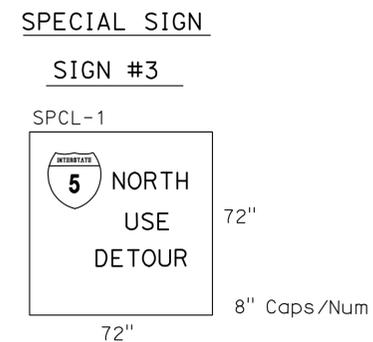
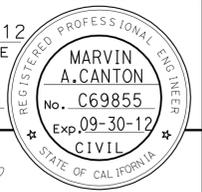
TRAFFIC HANDLING PLAN
 NO SCALE
TH-16

APPROVED FOR TRAFFIC HANDLING WORK ONLY

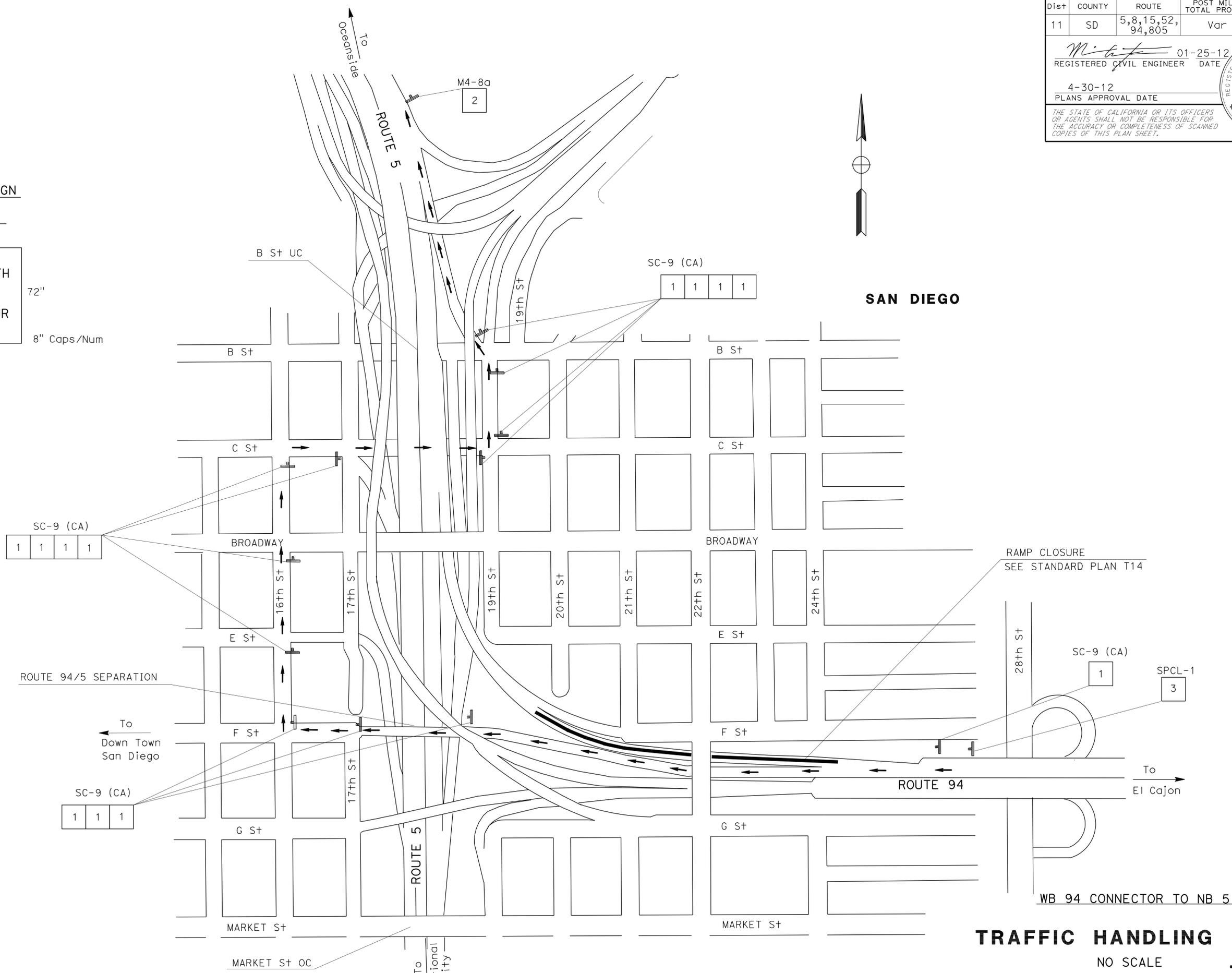
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	30	116

<i>M. Cant</i>	01-25-12
REGISTERED CIVIL ENGINEER	DATE
4-30-12	
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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISED BY
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	JIM ALSHEIKH MARVIN CANTON	DATE REVISID



TRAFFIC HANDLING PLAN
NO SCALE
TH-18

APPROVED FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION DATE PLOTTED => 02-MAY-2012 02-01-12 TIME PLOTTED => 14:48

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR
 KAZIM MANDANI

CALCULATED/DESIGNED BY
 CHECKED BY

JIM ALSHEIKH
 MARVIN CANTON

REVISED BY
 DATE

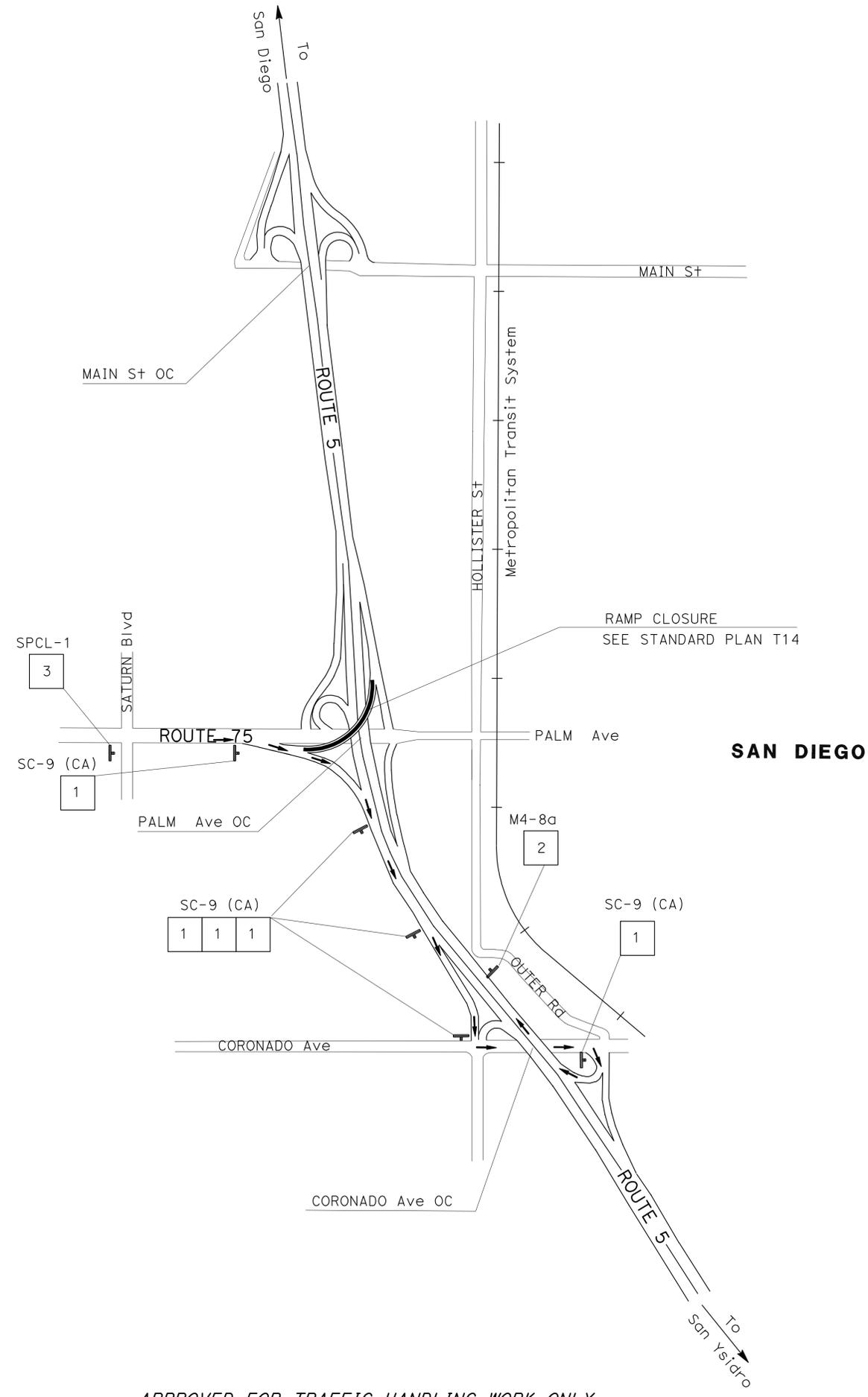
REVISED BY
 DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	32	116

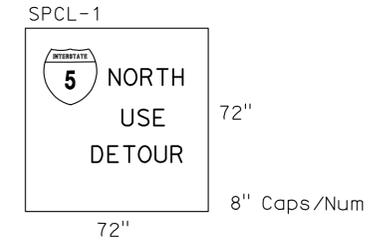
01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.



SPECIAL SIGN
 SIGN #3



NB 75 CONNECTOR TO NB 5

TRAFFIC HANDLING PLAN
 NO SCALE
TH-20

APPROVED FOR TRAFFIC HANDLING WORK ONLY

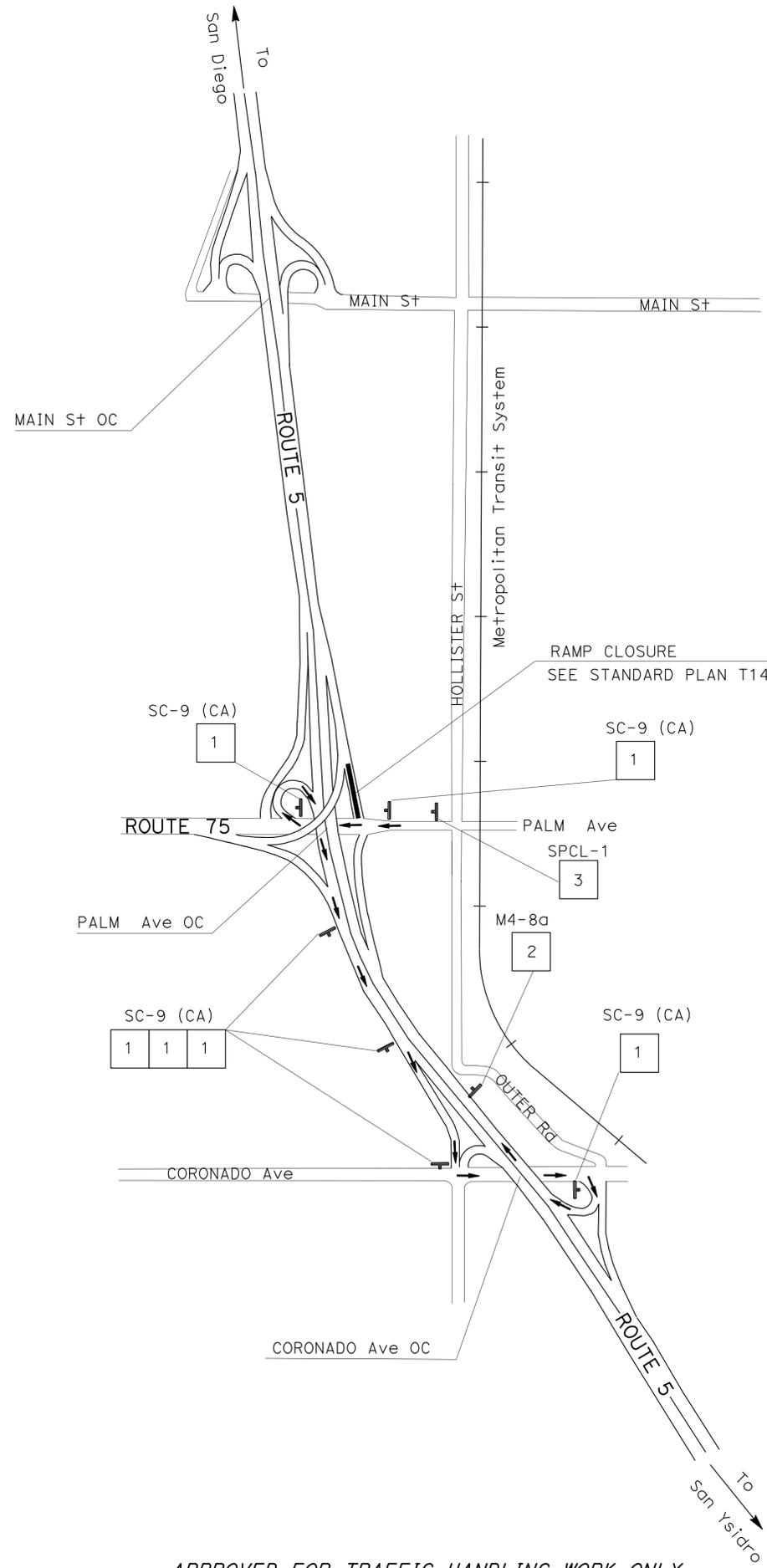
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	CHECKED BY	DATE
		JIM ALSHEIKH	REVISOR
		MARVIN CANTON	DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	33	116

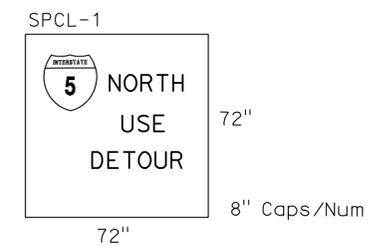
01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL

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SPECIAL SIGN
SIGN #3



SB 75 CONNECTOR TO NB 5

TRAFFIC HANDLING PLAN
NO SCALE
TH-21

APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	34	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

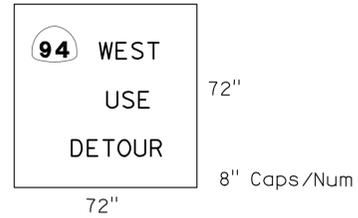
REGISTERED PROFESSIONAL ENGINEER
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

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.

SPECIAL SIGN

SIGN #12

SPCL-10



To
Down Town
San Diego

FEDERAL Blvd OC

RAMP CLOSURE
SEE STANDARD PLAN T14

HILLTOP Ave OC

MARKET St+ OC

HOME Ave UC

FEDERAL Blvd UC

FEDERAL Blvd

HILLTOP Dr

SPCL-10
12

MARKET St

MARKET St

To
Chula Vista

SAN DIEGO

M4-8a
2

A St

47th St

47th St

ROUTE 94

SC-9 (CA)
1 1

EUCLID Ave

To
La Mesa

SC-9 (CA)
1 1

NB 805 CONNECTOR TO WB 94

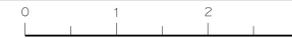
TRAFFIC HANDLING PLAN

NO SCALE

TH-22

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	JIM ALSHEIKH MARVIN CANTON	JIM ALSHEIKH MARVIN CANTON



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	35	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.

SPECIAL SIGN

SIGN #15

SPCL-13



72"

8" Caps/Num

72"

To
Down Town
San Diego

FEDERAL Blvd OC

RAMP CLOSURE
SEE STANDARD PLAN T14

HILLTOP Ave OC

MARKET St OC

To
Chula Vista

HILLTOP Dr

47th St OC

SPCL-13

15

SAN DIEGO

EUCLID Ave OC

A St

ROUTE 94

To
La Mesa

ROUTE 94/805 SEPARATION

FEDERAL Blvd

FEDERAL Blvd UC

FEDERAL Blvd

SC-9 (CA)

1 1

SC-9 (CA)

1

HOME Ave UC

SC-9 (CA)

1

HOME Ave

To
Del Mar

SC-9 (CA)

1 1

HOME Ave

M4-8a

2

44th St

47th St

47th St

EUCLID Ave

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
Caltrans PROJECT DEVELOPMENT	JIM ALSHEIKH	
	MARVIN CANTON	
FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	CHECKED BY
KAZIM MANDANI		

TRAFFIC HANDLING PLAN

NO SCALE

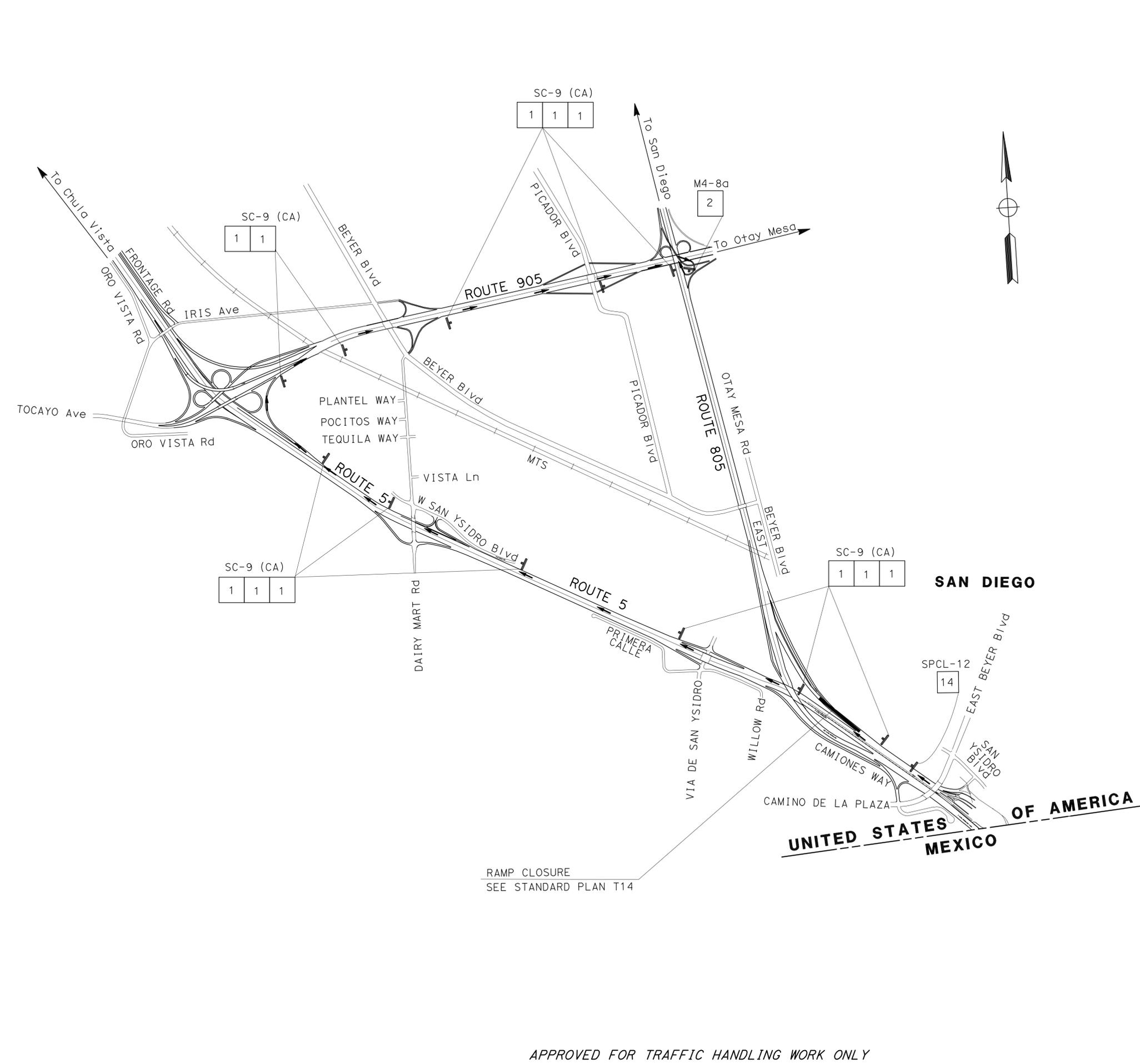
TH-23

APPROVED FOR TRAFFIC HANDLING WORK ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR: KAZIM MANDANI
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 JIM ALSHEIKH
 MARVIN CANTON
 REVISED BY: [blank]
 DATE REVISED: [blank]



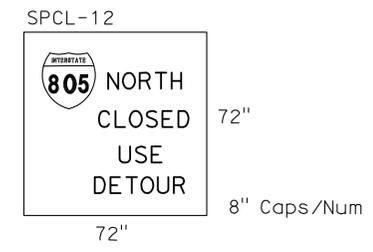
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	36	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.

SPECIAL SIGN
 SIGN #14



NB 5 CONNECTOR TO NB 805

TRAFFIC HANDLING PLAN
 NO SCALE
TH-24

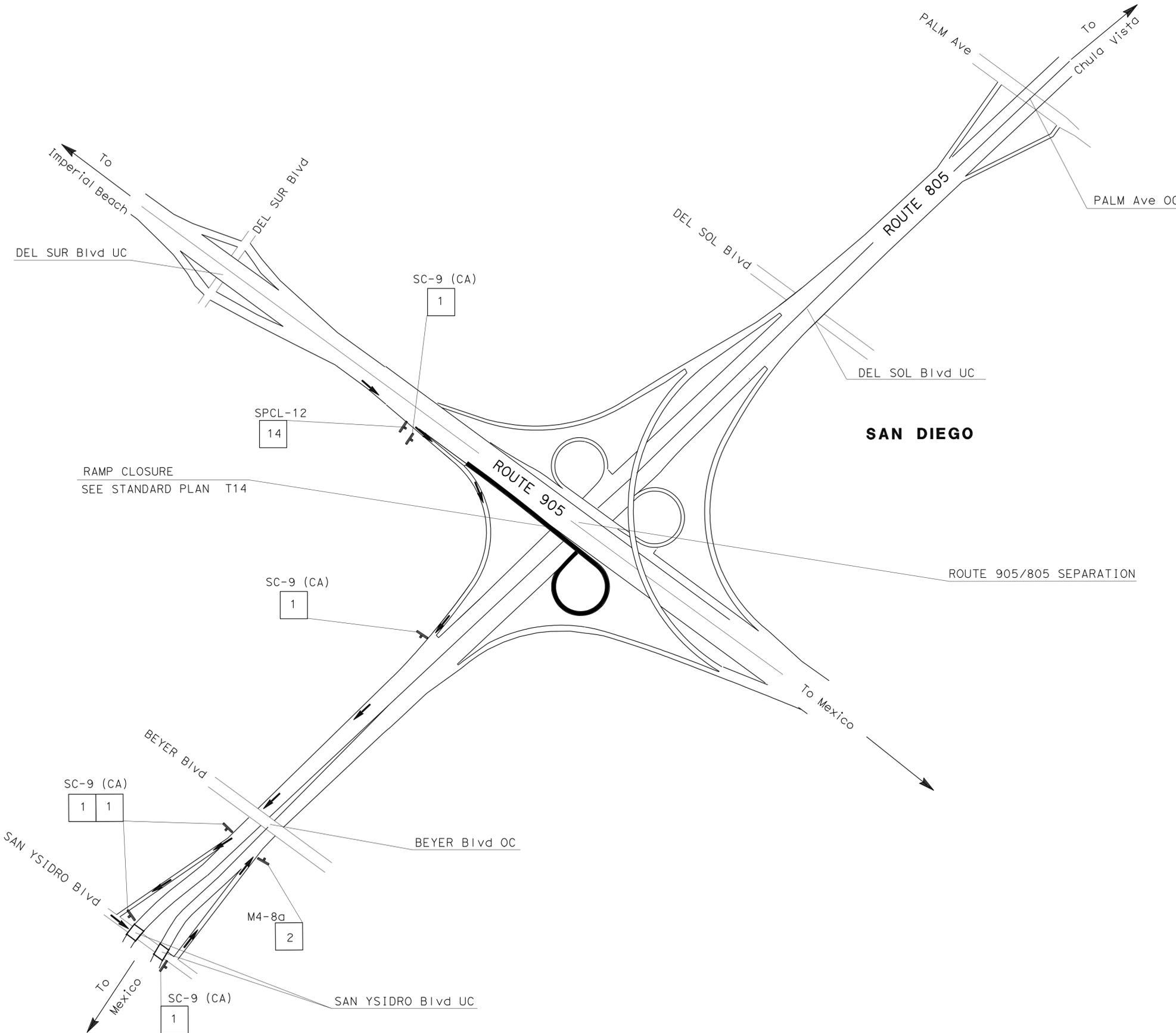
APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	37	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.



SPECIAL SIGN

SIGN #14

SPCL-12



72"

8" Caps/Num

72"

EB 905 CONNECTOR TO NB 805

TRAFFIC HANDLING PLAN
 NO SCALE
TH-25

APPROVED FOR TRAFFIC HANDLING WORK ONLY

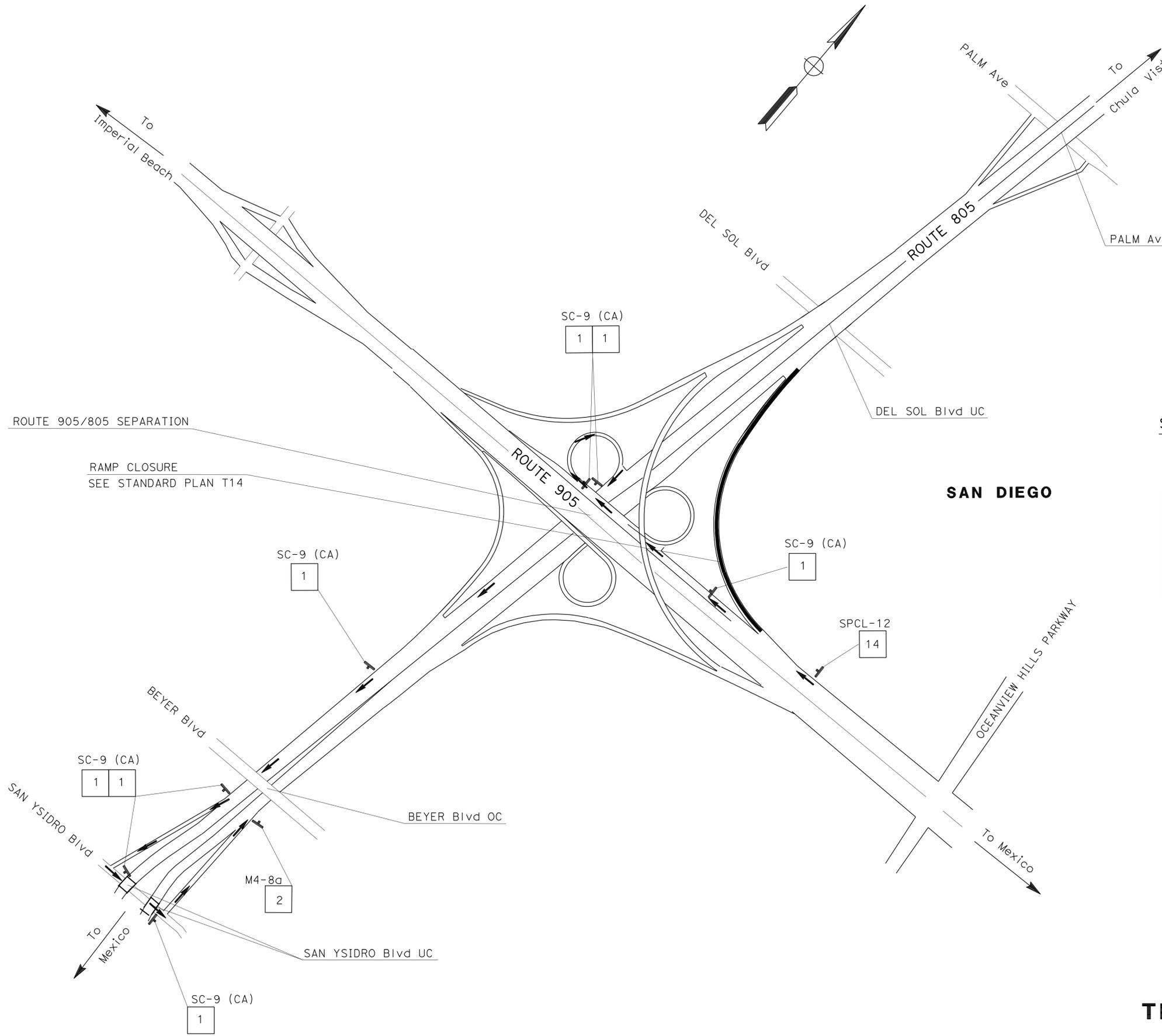
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	CHECKED BY	JIM ALSHEIKH
			MARVIN CANTON
			DATE REVISION

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	38	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.



SPECIAL SIGN

SIGN #14

SPCL-12

72" (width)

8" Caps/Num (height)

72" (width)

WB 905 CONNECTOR TO NB 805

TRAFFIC HANDLING PLAN

NO SCALE

TH-26

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	JIM ALSHEIKH	JIM ALSHEIKH
		MARVIN CANTON	MARVIN CANTON

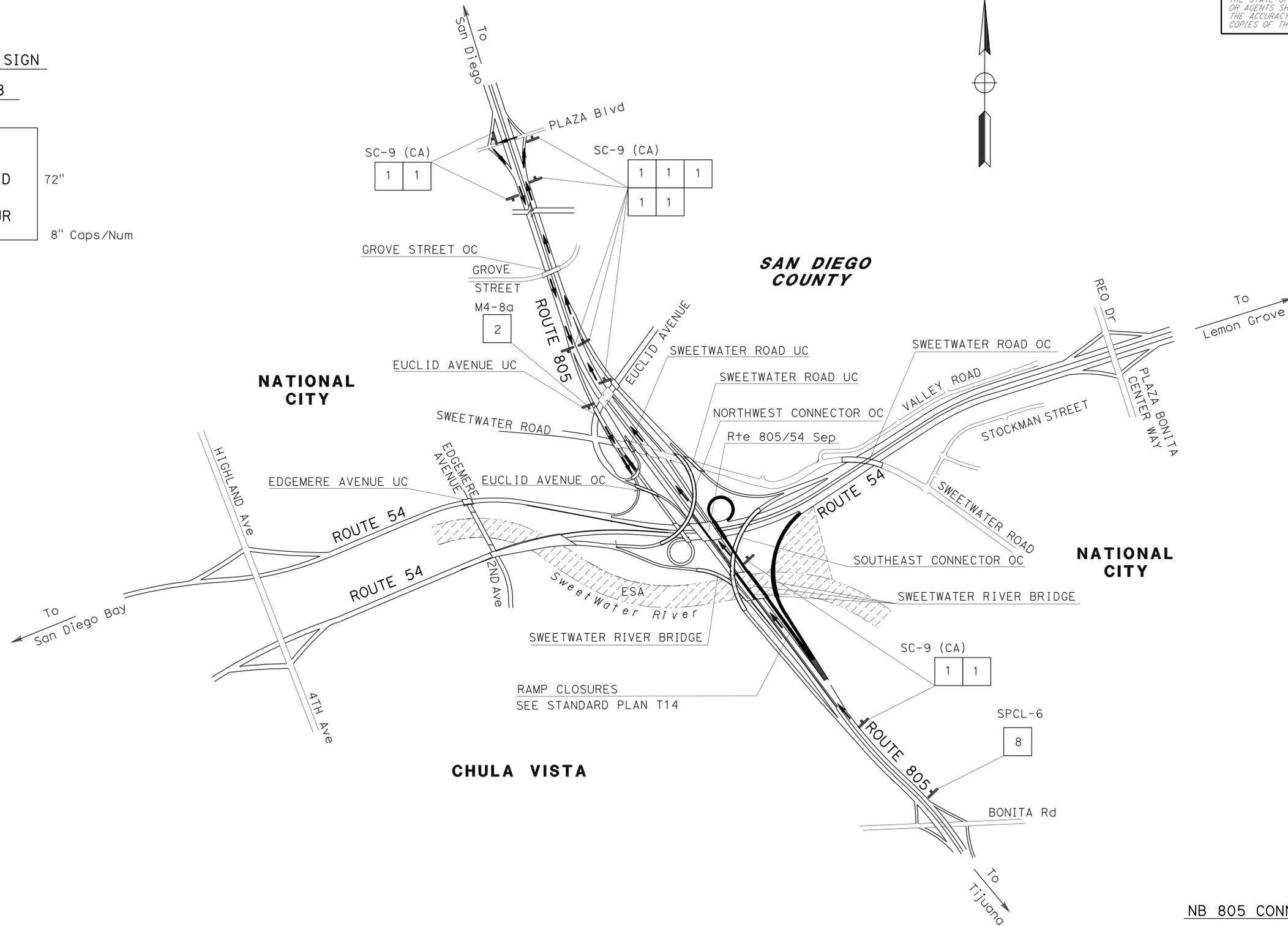
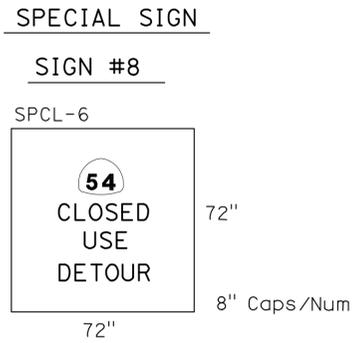
LAST REVISION: 02-01-12
 DATE PLOTTED => 02-MAY-2012
 TIME PLOTTED => 14:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	39	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.



NB 805 CONNECTOR TO ROUTE 54

TRAFFIC HANDLING PLAN
NO SCALE
TH-27

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	JIM ALSHEIKH	MARVIN CANTON
		CHECKED BY	DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	40	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.

SPECIAL SIGN

SIGN #14

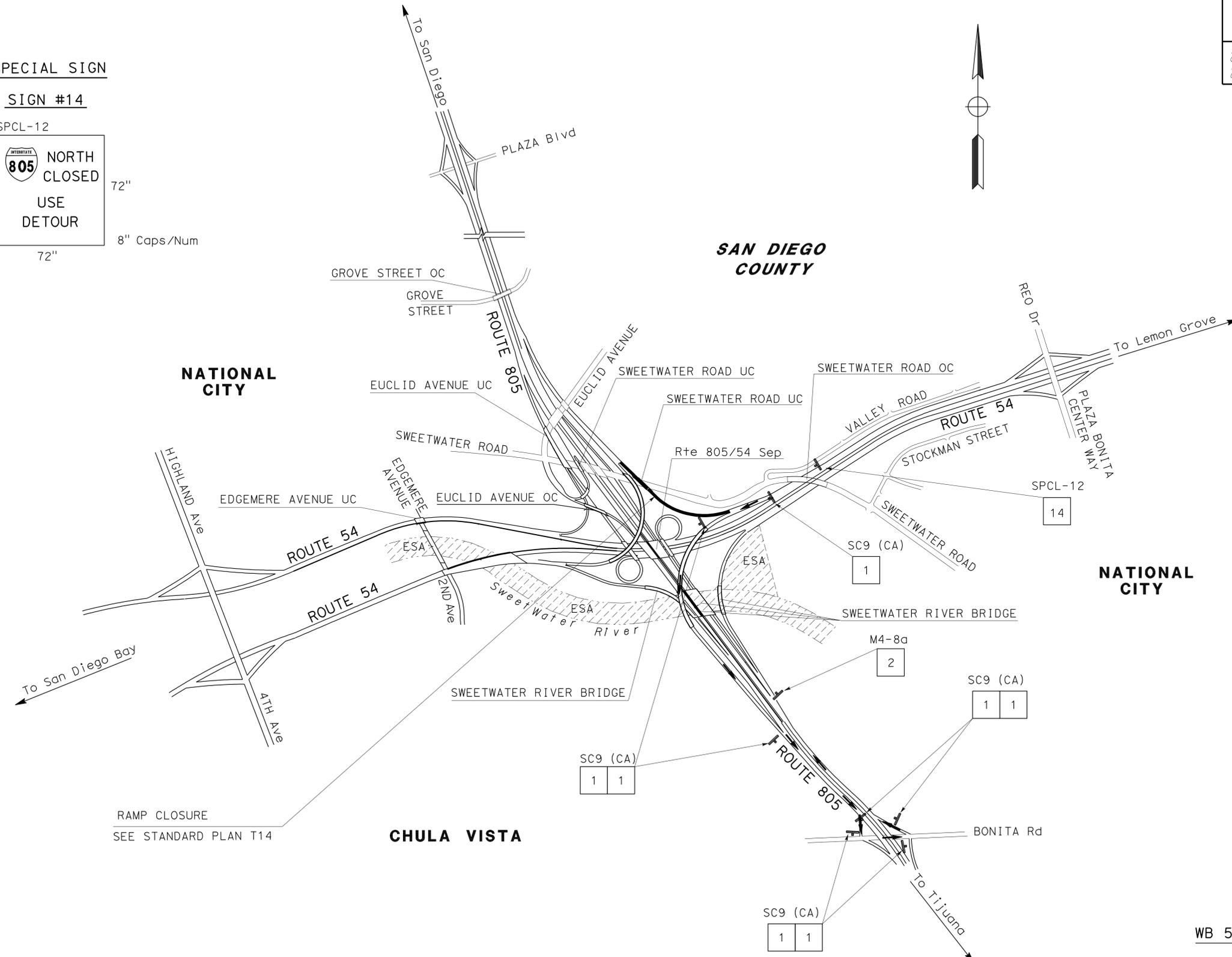
SPCL-12



72"

8" Caps/Num

72"



RAMP CLOSURE
SEE STANDARD PLAN T14

WB 54 CONNECTOR TO NB 805

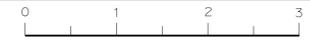
TRAFFIC HANDLING PLAN

NO SCALE

TH-28

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	NAPOLEON CHEWE MARVIN CANTON	DATE REVISION

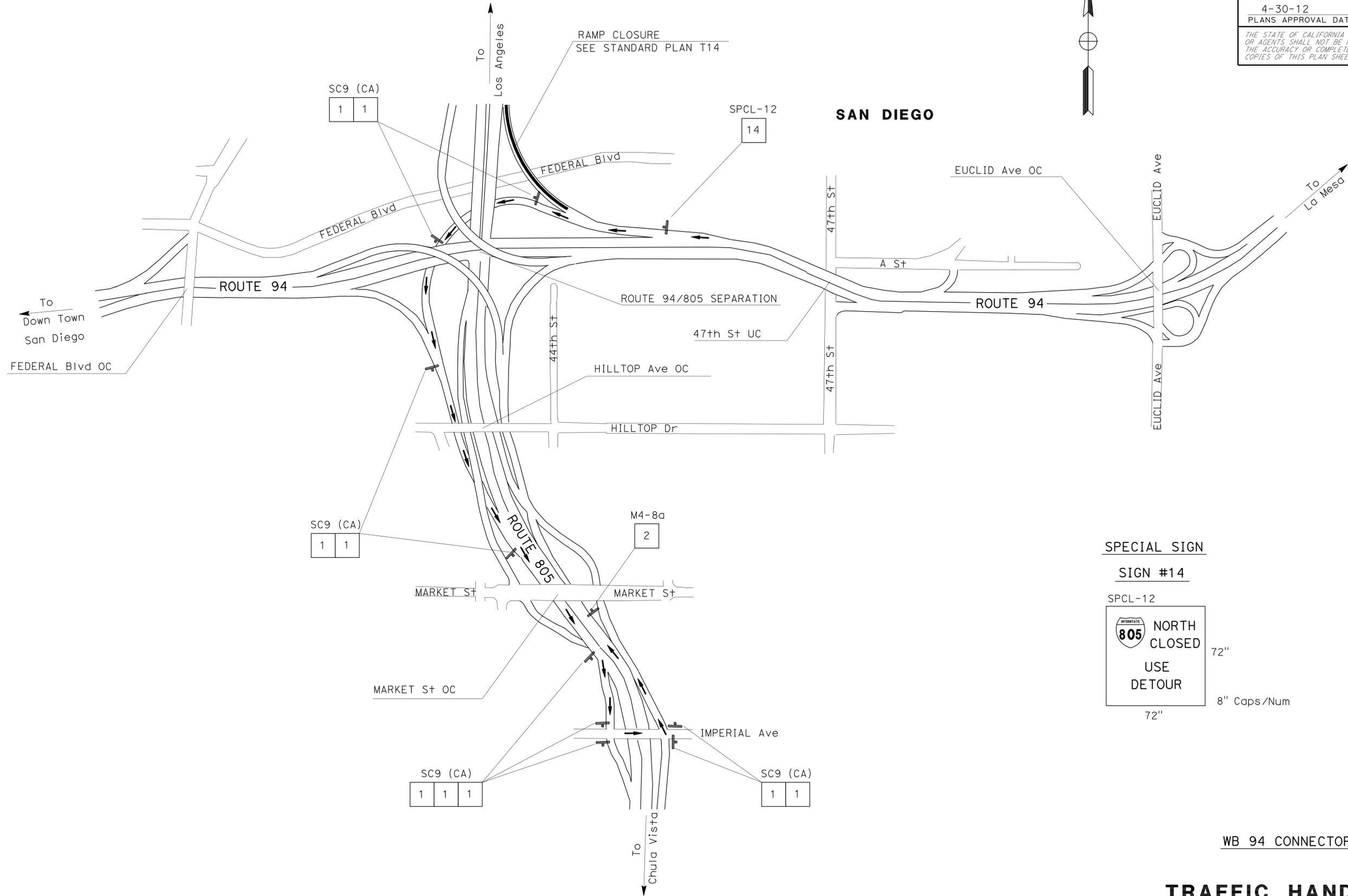


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	43	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.



SPECIAL SIGN

SIGN #14

SPCL-12

72"

8" Caps/Num

72"

WB 94 CONNECTOR TO NB 805

TRAFFIC HANDLING PLAN
 NO SCALE
TH-31

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	CHECKED BY	JIM ALSHEIKH
			MARVIN CANTON
			DATE REVISOR

LAST REVISION DATE PLOTTED => 02-MAY-2012
 02-02-12 TIME PLOTTED => 15:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	45	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

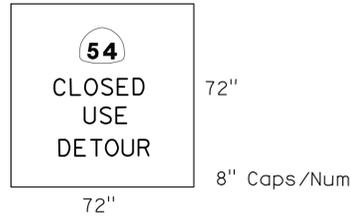
REGISTERED PROFESSIONAL ENGINEER
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

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.

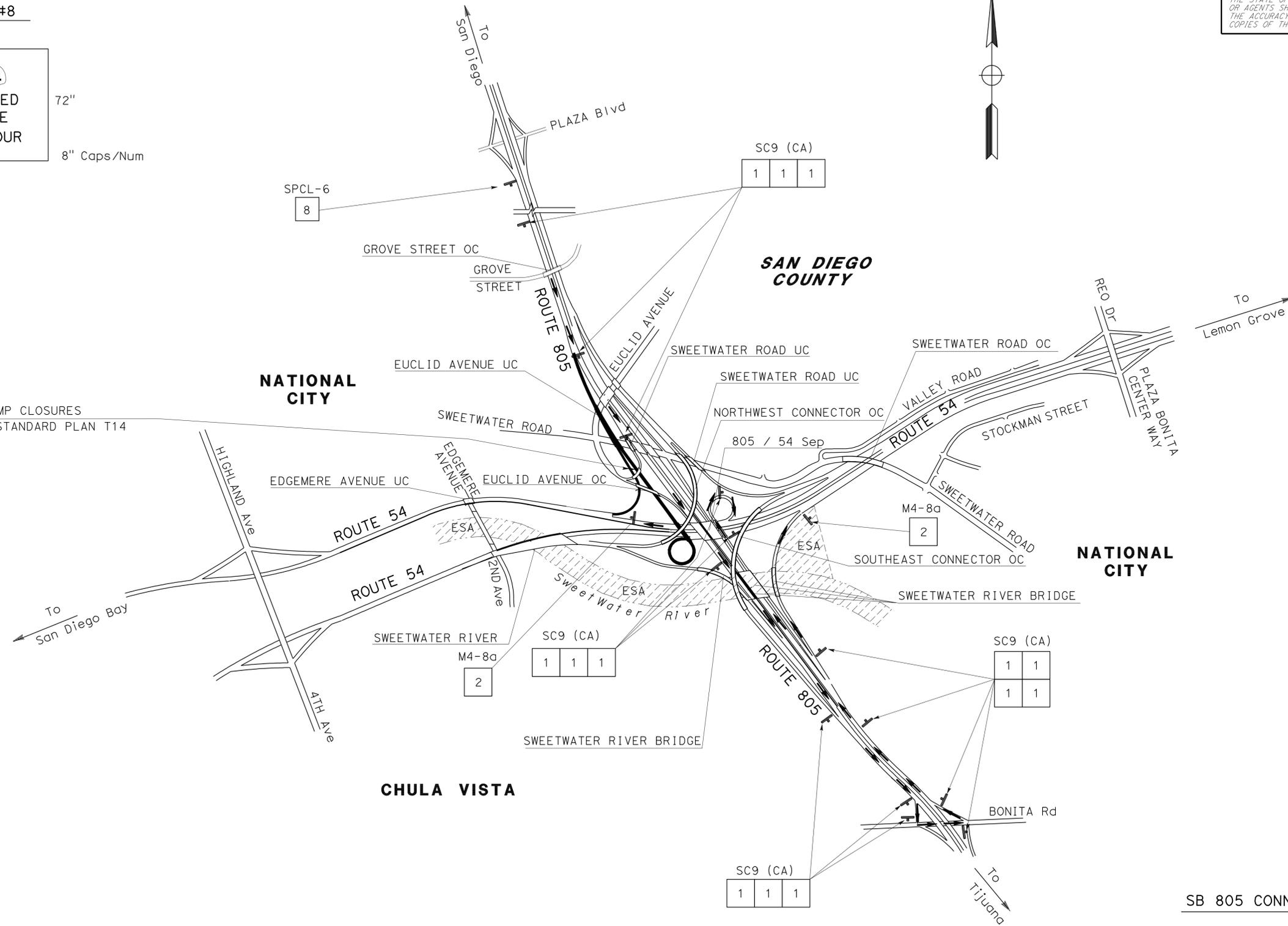
SPECIAL SIGN

SIGN #8

SPCL-6



RAMP CLOSURES
SEE STANDARD PLAN T14



SB 805 CONNECTOR TO ROUTE 54

TRAFFIC HANDLING PLAN

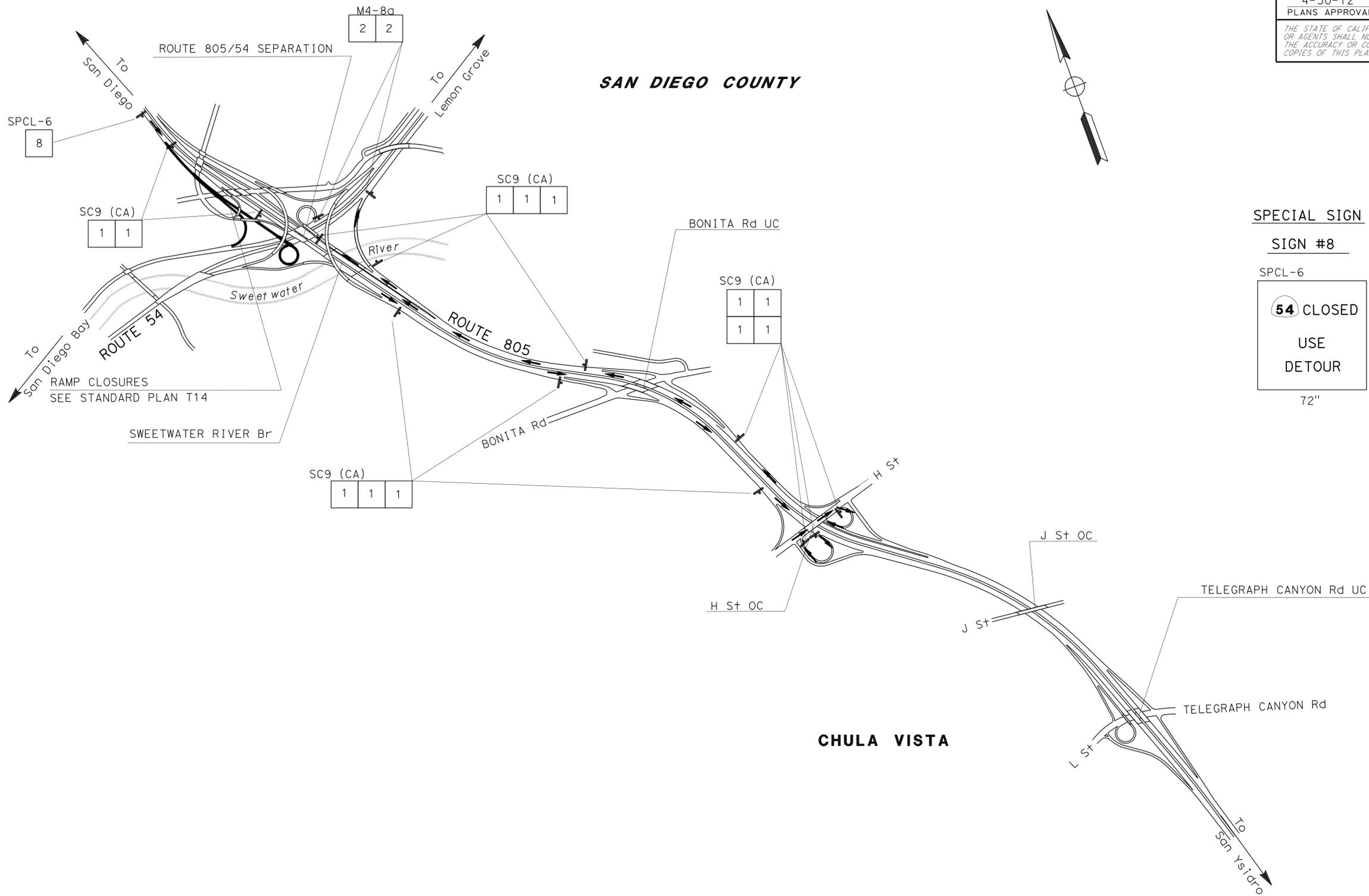
NO SCALE

TH-33

APPROVED FOR TRAFFIC HANDLING WORK ONLY

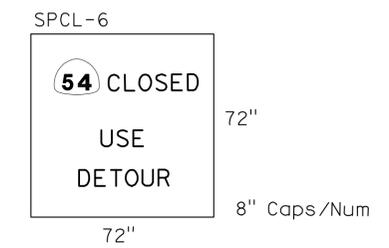
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	JIM ALSHEIKH	JIM ALSHEIKH
		MARVIN CANTON	MARVIN CANTON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	46	116
		01-25-12		DATE	
		4-30-12		PLANS APPROVAL DATE	
REGISTERED CIVIL ENGINEER MARVIN A. CANTON No. C69855 Exp. 09-30-12 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.					



SPECIAL SIGN

SIGN #8



SAN DIEGO COUNTY

CHULA VISTA

SB 805 CONNECTOR TO EB & WB 54

TRAFFIC HANDLING PLAN
NO SCALE
TH-34

APPROVED FOR TRAFFIC HANDLING WORK ONLY

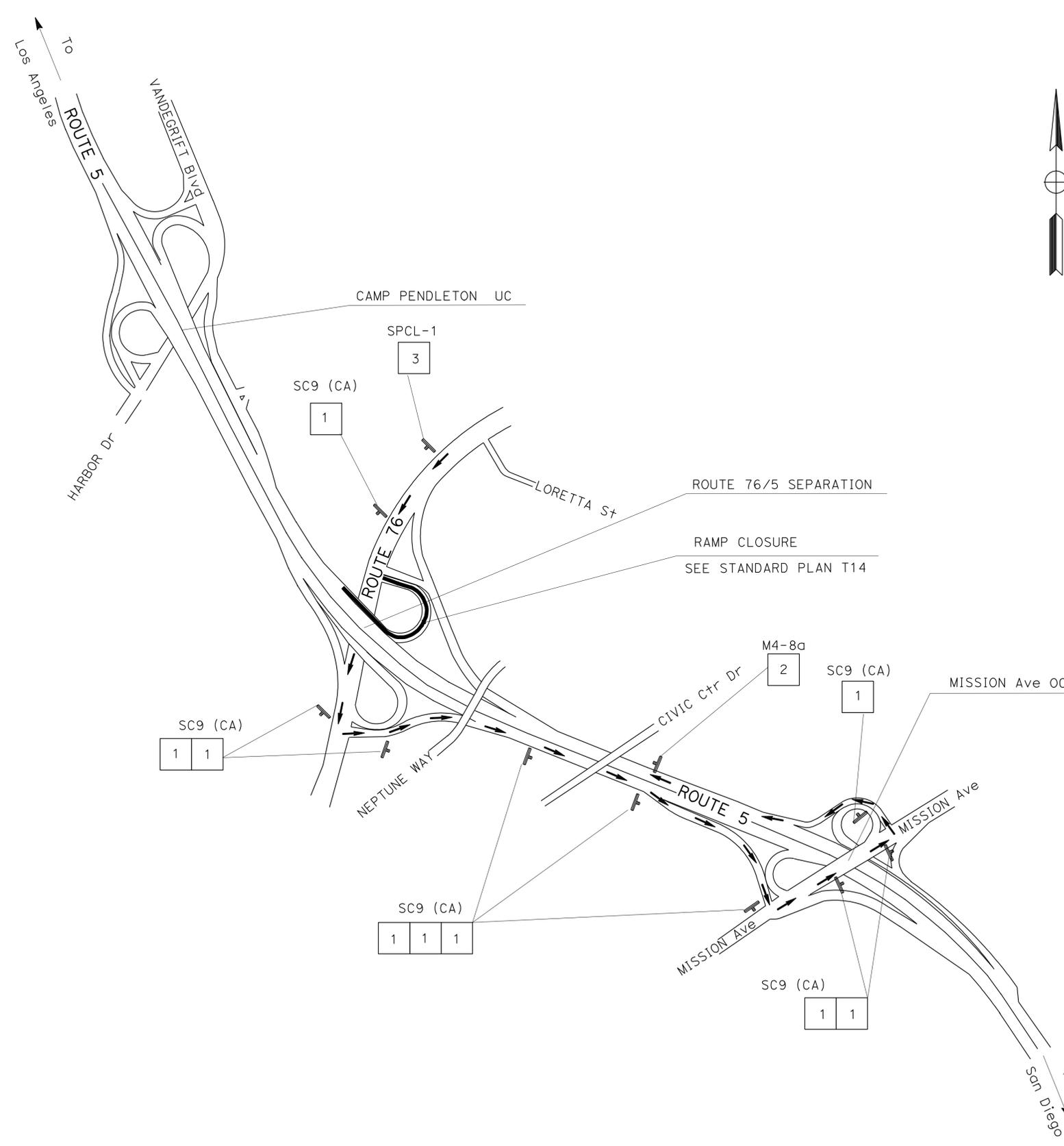
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	SEE STANDARD PLAN T14	NAPOLION CHEWE
		CHECKED BY	MARVIN CANTON
			DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	47	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

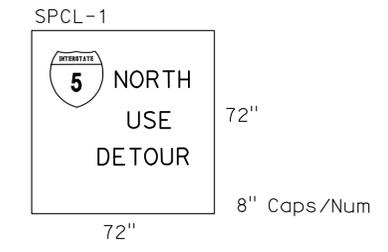
REGISTERED PROFESSIONAL ENGINEER
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 CIVIL
 STATE OF CALIFORNIA

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.



SPECIAL SIGN

SIGN #3



WB 76 CONNECTOR TO NB 5

TRAFFIC HANDLING PLAN
 NO SCALE
TH-35

APPROVED FOR TRAFFIC HANDLING WORK ONLY

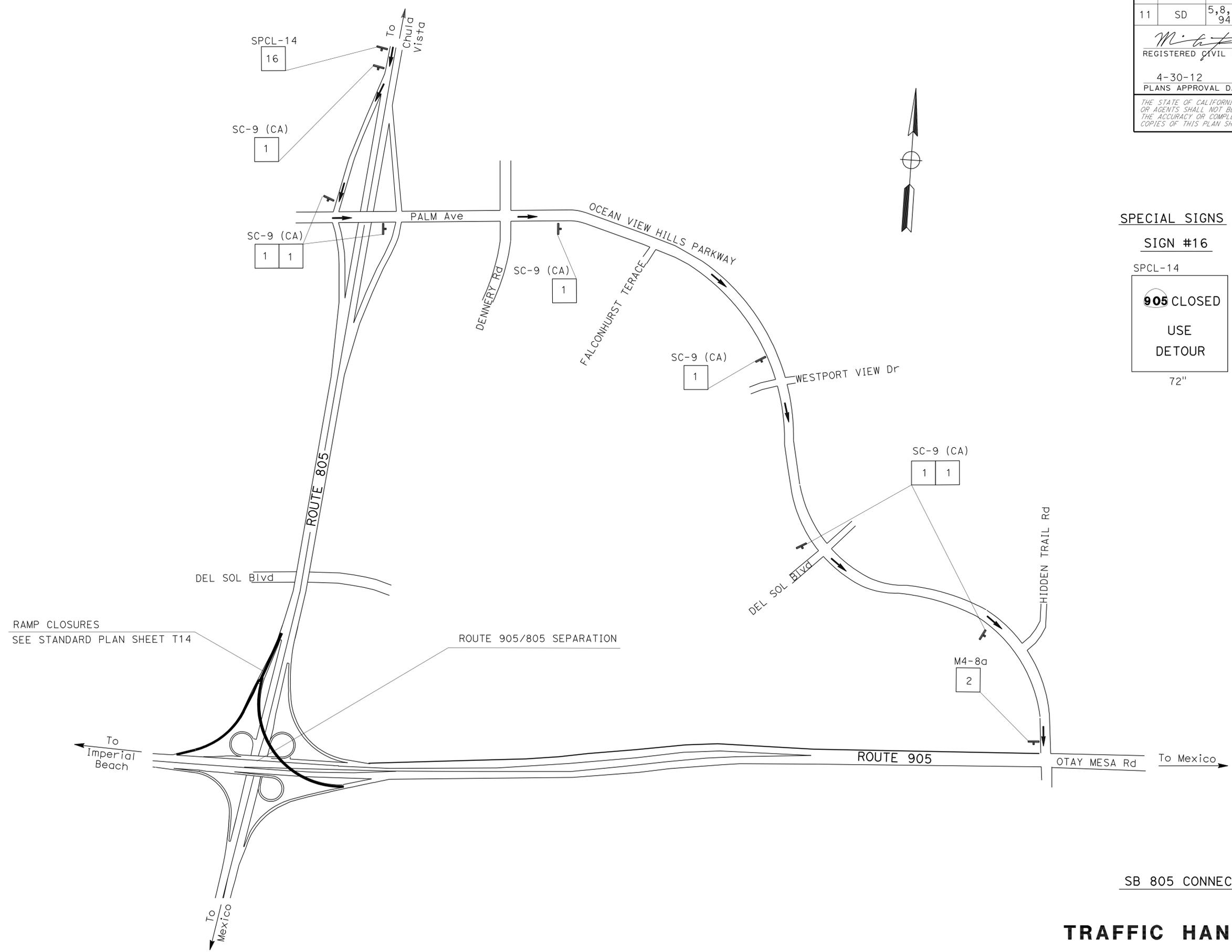
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	KAZIM MANDANI	CHECKED BY	JIM ALSHEIKH
			MARVIN CANTON
			DATE REVISION

LAST REVISION DATE PLOTTED => 02-MAY-2012 02-02-12 TIME PLOTTED => 15:09

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: KAZIM MANDANI
 CALCULATED/DESIGNED BY: JIM ALSHEIKH
 CHECKED BY: MARVIN CANTON
 REVISED BY: JIM ALSHEIKH
 DATE REVISED: MARVIN CANTON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	50	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE
 MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.



SPECIAL SIGNS

SIGN #16

SPCL-14

905 CLOSED

USE

DETOUR

72" (height)

8" Caps/Num (width)

72" (width)

APPROVED FOR TRAFFIC HANDLING WORK ONLY

TRAFFIC HANDLING PLAN
 NO SCALE
TH-38

LAST REVISION | DATE PLOTTED => 02-03-12 | TIME PLOTTED =>

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

REVISOR
 REVISED BY
 DATE

DESIGNER
 DESIGNED BY
 CHECKED BY

FUNCTIONAL SUPERVISOR
 SUPERVISOR

PROJECT DEVELOPMENT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	52	116

Marvin A. Canton 01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 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.

SPECIAL SIGN

SIGN # 5

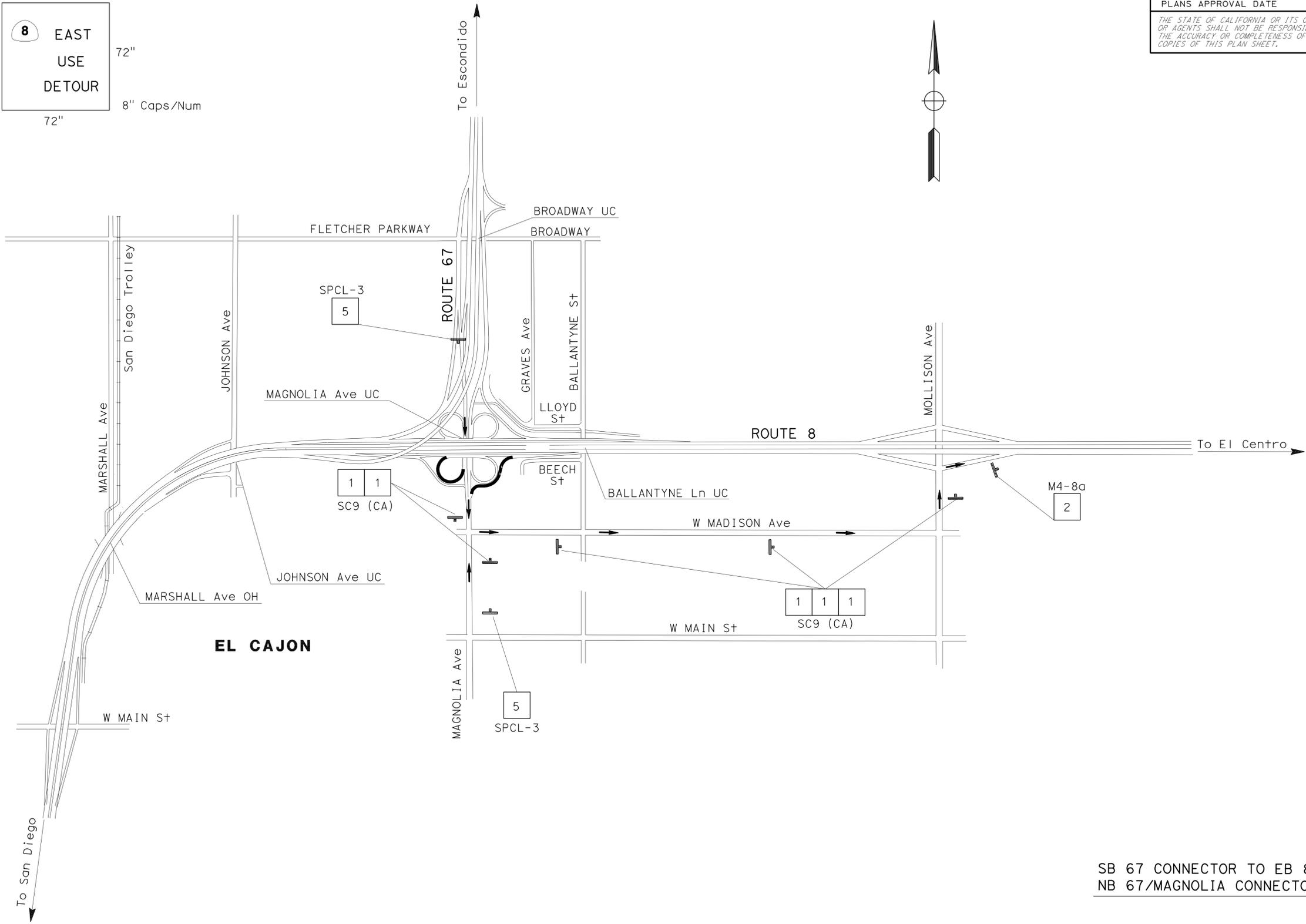
SPCL-3



72"

8" Caps/Num

72"



SB 67 CONNECTOR TO EB 8
 NB 67/MAGNOLIA CONNECTOR TO EB 8

TRAFFIC HANDLING PLAN

NO SCALE

TH-40

APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52, 94,805	Var	53	116

 01-25-12
 REGISTERED CIVIL ENGINEER DATE

4-30-12
 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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
 FUNCTIONAL SUPERVISOR
 KAZIM MAMDANI
 CALCULATED/DESIGNED BY
 CHECKED BY
 MARVIN A. CANTON
 NAPOLEON CHEWE
 REVISED BY
 DATE REVISED

CONSTRUCTION AREA SIGNS

SIGN No.	CODE	PANEL SIZE (In)	No. OF POST	No. OF SIGNS
1	SC9(CA)	36 X 36	PORTABLE	332
2	M4-8a	24 X 18	PORTABLE	44
3	SPCL-1	72 X 72	PORTABLE	6
4	SPCL-2	72 X 72	PORTABLE	2
5	SPCL-3	72 X 72	PORTABLE	3
6	SPCL-4	72 X 72	PORTABLE	3
7	SPCL-5	72 X 72	PORTABLE	1
8	SPCL-6	72 X 72	PORTABLE	3
9	SPCL-7	72 X 72	PORTABLE	1
10	SPCL-8	72 X 72	PORTABLE	1
11	SPCL-9	72 X 72	PORTABLE	1
12	SPCL-10	72 X 72	PORTABLE	3
13	SPCL-11	72 X 72	PORTABLE	1
14	SPCL-12	72 X 72	PORTABLE	7
15	SPCL-13	72 X 72	PORTABLE	4
16	SPCL-14	72 X 72	PORTABLE	3
17	SPCL-15	72 X 72	PORTABLE	1
18	SPCL-16	72 X 72	PORTABLE	1
19	SPCL-17	72 X 72	PORTABLE	1

SEE CS SHEETS FOR ADDITIONAL QUANTITIES.

TRAFFIC HANDLING QUANTITIES

THQ-1

LAST REVISION DATE PLOTTED => 02-MAY-2012
 02-03-12 TIME PLOTTED => 15:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	55	116

 01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 SHAHIN T. ADIBI
 No. 54839
 Exp. 06-30-12
 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.

PAVEMENT DELINEATION QUANTITIES

LOCATION	ROUTE	DIRECTION	POST MILE	DETAIL No.	PAINT TRAFFIC STRIPE (1-COAT)	THERMOPLASTIC TRAFFIC STRIPE						THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER				DESCRIPTION/COMMENTS	
					3"	4"			8"				(NON-REFLECTIVE)	(RETROREFLECTIVE)				
					BLACK SOLID	WHITE SOLID	YELLOW SOLID	WHITE BROKEN 36-12	WHITE BROKEN 17-7	WHITE SOLID	WHITE BROKEN 12-3		TYPE A	TYPE C	TYPE G	TYPE H		
					LF	LF	LF	LF	LF	LF	LF		EA	EA	EA	EA		
LOCATION 1 OGRA OH Br No. 57-0587L	5	SB	63.70	13 27B (Mod)	48	48							8		3			
LOCATION 2 LAS FLORES CREEK Br No. 57-0005R	5	NB	61.40	13 25 (Mod) 27B (Mod)	65		65						24		6		2	
LOCATION 3 STUART OH Br No. 57-0583R	5	NB	56.80	13 25 (Mod) 27B (Mod)	60		60						24		6		2	
LOCATION 4 SANTA MARGARITA RIVER Br No. 57-0007R	5	NB	56.40	13 25 (Mod)	34		34						12		3		2	
LOCATION 5 FALLBROOK JUNCTION OH Br No. 57-0581L	5	SB	55.30	13 25 (Mod) 27B (Mod)	30		30						12		3		2	
LOCATION 6 SAN LUIS REY RIVER BRIDGE Br No. 57-0713R	5	NB	54.04	13 27B (Mod) 37	31		31				30		8		2			
LOCATION 7 LOMA ALTA CREEK BRIDGE Br No. 57-0125	5	SB	52.20	13 25 (Mod)	30		30						16		4		1	
LOCATION 8 BUENA VISTA LAGOON Br No. 57-0277	5	SB	50.90	11/13 25 (Mod) 37	30		30		120				16		4		1	
LOCATION 9 CARLSBAD VILLAGE DRIVE UC Br No. 57-0274	5	SB	50.10	11/13 27B (Mod)	33		33						4	4	1			
LOCATION 10 CHESTNUT AVENUE UC Br No. 57-0275	5	SB	49.70	11/13 25 (Mod) 27B (Mod)	30		30		120				16		4		1	
SUB-TOTAL					576	297	279	275			60		140	8	36	11		
SHEET 1 TOTAL					576	576			275			60		140	55			

NOTE: ALL PAVEMENT DELINEATION TO BE REPLACED IN-KIND

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
 CALCULATED/DESIGNED BY: DON LUONG
 CHECKED BY: SHAHIN ADIBI
 REVISED BY: DATE REVISED:

LAST REVISION: DATE PLOTTED => 02-MAY-2012
 02-03-12 TIME PLOTTED => 15:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	56	116

01-25-12
REGISTERED CIVIL ENGINEER DATE

4-30-12
PLANS APPROVAL DATE

SHAHIN T. ADIBI
No. 54839
Exp. 06-30-12
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.

PAVEMENT DELINEATION QUANTITIES

LOCATION	ROUTE	DIRECTION	POST MILE	DETAIL No.	PAINT TRAFFIC STRIPE (1-COAT)	THERMOPLASTIC TRAFFIC STRIPE						THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER				DESCRIPTION/COMMENTS
					3"	4"			8"				(NON-REFLECTIVE)	(RETROREFLECTIVE)			
					BLACK SOLID	WHITE SOLID	YELLOW SOLID	WHITE BROKEN 36-12	WHITE BROKEN 17-7	WHITE SOLID	WHITE BROKEN 12-3		TYPE A	TYPE C	TYPE G	TYPE H	
					LF	LF	LF	LF	LF	LF	LF		EA	EA	EA	EA	
LOCATION 11 OTAY RIVER OVERFLOW OC Br No. 57-0263	5	NB	5.10	11/13 25 (Mod)	30		30		120				16		4	1	
LOCATION 12 OTAY RIVER BRIDGE Br No. 57-0246	5	NB	5.01	11/13 25 (Mod)	30		30		120				16		4	1	
LOCATION 13 PINE VALLEY CREEK BRIDGE Br No. 57-0692L	8	WB	41.70	12 25 (Mod) 27B (Mod)	34 48		34		41						1 1		
LOCATION 14 HORSETHIEF ROAD UC Br No. 57-0690L	8	WB	39.62	12 25 (Mod) 27B (Mod)	30 30		30		30						1 1		
LOCATION 15 SWEETWATER RIVER BRIDGE Br No. 57-0688L	8	WB	36.53	12 25 (Mod) 27B (Mod)	30 30		30		30						1 1		
LOCATION 16 PUETZ VALLEY ROAD UC Br No. 57-0528R/L	8	WB/EB	26.73	11/13 25 (Mod) 27B (Mod)	154 149		154		240				24		6	4	
LOCATION 17 HARBISON CANYON UC Br No. 0539R/L	8	WB/EB	25.68	11/13 25 (Mod) 27B (Mod)	358 328		358		358				40		10	10	
LOCATION 18 FLINN SPRINGS ROAD UC Br No. 57-0534R/L	8	WB/EB	23.64	11/13 25 (Mod) 27B (Mod)	456 411		456		441				48		12	12	
LOCATION 19 LAKE JENNINGS PARK ROAD UC Br No. 57-0462R/L	8	WB/EB	21.82	8 11/13 25 (Mod) 27B (Mod) 36A	351 351		351		351				40		10	10	
SUB-TOTAL					2,820	1,347	1,473	1,731	298	81			184		57	38	
SHEET 2 TOTAL					2,820	2,820		1,731	298	81			184		95		

NOTE: ALL PAVEMENT DELINEATION TO BE REPLACED IN-KIND

PAVEMENT DELINEATION QUANTITIES PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
CAMILLE ABOUFADEL
FUNCTIONAL SUPERVISOR
DON LUONG
SHAHIN ADIBI
REVISOR BY
DATE REVISED
CALCULATED/DESIGNED BY
CHECKED BY
REVISIONS: 02-03-12 DATE PLOTTED => 15:11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	57	116

01-25-12
REGISTERED CIVIL ENGINEER DATE

4-30-12
PLANS APPROVAL DATE

SHAHIN T. ADIBI
No. 54839
Exp. 06-30-12
CIVIL

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PAVEMENT DELINEATION QUANTITIES

LOCATION	ROUTE	DIRECTION	POST MILE	DETAIL No.	PAINT TRAFFIC STRIPE (1-COAT)	THERMOPLASTIC TRAFFIC STRIPE						THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER				DESCRIPTION/COMMENTS	
					3"	4"			8"				(NON-REFLECTIVE)	(RETROREFLECTIVE)				
					BLACK SOLID	WHITE SOLID	YELLOW SOLID	WHITE BROKEN 36-12	WHITE BROKEN 17-7	WHITE SOLID	WHITE BROKEN 12-3		TYPE A	TYPE C	TYPE G	TYPE H		
					LF	LF	LF	LF	LF	LF	LF		EA	EA	EA	EA		
LOCATION 20 LOS COCHES ROAD UC Br No. 57-0474L	8	WB	20.04	11/13					60					8		2		
				25 (Mod)	60		60											
				27B (Mod)	60	60												
LOCATION 21 BALLANTYNE LANE UC Br No. 57-0366R	8	EB	16.05	13										4		1		1
				25 (Mod)	30		30											
LOCATION 22 JOHNSON AVENUE UC Br No. 57-0364R	8	EB	15.30	11/13					165					20		5		2
				25 (Mod)	66		66											
				27B (Mod)	33	33												
LOCATION 23 MAIN STREET UC Br No. 57-0363R/L	8	WB/EB	14.59	11/13					330					44		11		4
				25 (Mod)	120		120											
				27B (Mod)	60	60												
LOCATION 24 EL CAJON OH Br No. 57-0362	8	WB	13.66	11/13					180					24		6		2
				25 (Mod)	89		89											
				27B (Mod)	87	87												
LOCATION 25 CAMINO DEL REY UC Br No. 57-0889R/L	15	NB/SB	41.80	13										48		12		4
				25 (Mod)	120		120											
				27B (Mod)	120	120												
LOCATION 26 LAWRENCE WELK DRIVE UC Br No. 57-0894L	15	SB	39.30	13										16		4		1
				25 (Mod)	35		35											
				27B (Mod)	71	71												
LOCATION 27 COUNTRY CLUB LANE UC Br No. 0819L	15	SB	33.60	13										12		3		1
				25 (Mod)	32		32											
				27B (Mod)	35	35												
LOCATION 28 ROCK SPRINGS ROAD UC Br No. 57-0817R	15	NB	31.90	13										20		5		3
				25 (Mod)	92		92											
				27B (Mod)	43	43												
LOCATION 29 PROSPECT Ave UC (E52/ S125 Conn) Br No. 57-1024G	52	SB	15.16	11/13					60					8		2		2
				25 (Mod)	60		60											
				27B (Mod)	60	60												
SUB-TOTAL					1,273	569	704	795						204		51		20
SHEET 3 TOTAL					1,273		1,273	795						204		71		

NOTE: ALL PAVEMENT DELINEATION TO BE REPLACED IN-KIND

PAVEMENT DELINEATION QUANTITIES PDQ-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
 CALCULATED/DESIGNED BY: DON LUONG
 CHECKED BY: SHAHIN ADIBI
 REVISED BY: DATE REVISED:

LAST REVISION DATE PLOTTED => 02-MAY-2012
 02-03-12 TIME PLOTTED => 15:11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	58	116

01-25-12
REGISTERED CIVIL ENGINEER DATE

4-30-12
PLANS APPROVAL DATE

SHAHIN T. ADIBI
No. 54839
Exp. 06-30-12
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.

PAVEMENT DELINEATION QUANTITIES

LOCATION	ROUTE	DIRECTION	POST MILE	DETAIL No.	PAINT TRAFFIC STRIPE (1-COAT)	THERMOPLASTIC TRAFFIC STRIPE						THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER				DESCRIPTION/COMMENTS
					3"	4"			8"				(NON-REFLECTIVE)	(RETROREFLECTIVE)			
					BLACK SOLID	WHITE SOLID	YELLOW SOLID	WHITE BROKEN 36-12	WHITE BROKEN 17-7	WHITE SOLID	WHITE BROKEN 12-3		TYPE A	TYPE C	TYPE G	TYPE H	
					LF	LF	LF	LF	LF	LF	LF		EA	EA	EA	EA	
LOCATION 30 E52-N805/ SAN CLEMENTE CREEK BRIDGE Br No. 57-0753G	52	EB	3.36	11/13 25 (Mod) 27B (Mod)	76 76		76						8		2		2
LOCATION 31 GENESEE AVENUE UC Br No. 57-0744R	52	EB	2.29	11/13 25 (Mod) 27B (Mod)	105 99		105						12		3		3
LOCATION 32 REGENTS ROAD UC Br No. 57-0743R	52	EB	1.35	11/13 25 (Mod) 27B (Mod)	60 60		60						8		2		2
LOCATION 33 W52-N5 CONNECTOR OH Br No. 57-0523F	52	WB	0.37	25 (Mod) 27B (Mod)	62 65		62								2		
LOCATION 34 KENWOOD DRIVE UC Br No. 57-0572L	94	WB	11.80	13 25 (Mod) 27B (Mod)	66 68		66						8		2		2
LOCATION 35 W94-S805 CONNECTOR UC Br No. 57-0663R	94	EB	4.00	13 25 (Mod)	80		80						20		5		2
LOCATION 36 CHOLLAS CREEK BRIDGE Br No. 57-0107L	94	WB	3.36	11/13 25 (Mod) 27B (Mod)	84 86		84						32		8		3
LOCATION 37 W94-S15 CONNECTOR OC Br No. 57-0350F	94	WB	3.08	11/13 25 (Mod) 27B (Mod)	62 67		62						8		2		2
LOCATION 38 32ND STREET UC Br No. 57-0361	94	WB	2.68	13 25 (Mod) 27B (Mod)	74 89		74						28		7		2
LOCATION 39 W94-N5 CONNECTOR OC Br No. 57-0430F	94	WB	1.46	11/13 25 (Mod) 27B (Mod)	98 87		98						28		7		3
SUB-TOTAL					1,464	697	767	827					152		40		21
SHEET 4 TOTAL					1,464	1,464		827					152		61		

NOTE: ALL PAVEMENT DELINEATION TO BE REPLACED IN-KIND

PAVEMENT DELINEATION QUANTITIES PDQ-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC DESIGN
 CAMILLE ABOUFADEL
 FUNCTIONAL SUPERVISOR
 CHECKED BY
 DON LUONG
 SHAHIN ADIBI
 REVISOR BY
 DATE REVISED

LAST REVISION DATE PLOTTED => 02-MAY-2012
 02-03-12 TIME PLOTTED => 15:11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	59	116

01-25-12
REGISTERED CIVIL ENGINEER DATE

4-30-12
PLANS APPROVAL DATE

SHAHIN T. ADIBI
No. 54839
Exp. 06-30-12
CIVIL

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PAVEMENT DELINEATION QUANTITIES

LOCATION	ROUTE	DIRECTION	POST MILE	DETAIL No.	PAINT TRAFFIC STRIPE (1-COAT)	THERMOPLASTIC TRAFFIC STRIPE						THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER				DESCRIPTION/COMMENTS
					3"	4"			8"		(NON-REFLECTIVE)		(RETROREFLECTIVE)				
					BLACK SOLID	WHITE SOLID	YELLOW SOLID	WHITE BROKEN 36-12	WHITE BROKEN 17-7	WHITE SOLID	WHITE BROKEN 12-3		TYPE A	TYPE C	TYPE G	TYPE H	
					LF	LF	LF	LF	LF	LF	LF		EA	EA	EA	EA	
LOCATION 40 ROUTE 805/ 15 SEPARATION Br No. 57-0611R	805	NB	14.59	11/13 25 (Mod) 27B (Mod)	77 104		77						28		7	1	
LOCATION 41 HOME AVENUE UC Br No. 57-0671L	805	SB	13.95	13 25 (Mod) 27B (Mod)	36 68		36						16		4	1	
LOCATION 42 47TH STREET UC Br No. 57-0647	805	SB	11.36	13									20		5		
LOCATION 43 DIVISION STREET UC Br No. 57-0646	805	NB/SB	11.14	13 25 (Mod) 27B (Mod) 36	73 30		73			40			24		6	2	
LOCATION 44 8TH STREET UC Br No. 57-0644	805	SB	10.60	13 25 (Mod) 27B (Mod)	60 60		60						32		8	2	
LOCATION 45 PLAZA BOULEVARD UC Br No. 57-0643	805	NB/SB	10.28	13 25 (Mod) 27B (Mod)	90 90		90				50		56		14	3	TYPE I 18' ARROW
LOCATION 46 EUCLID AVENUE UC Br No. 0640R/L	805	NB/SB	9.19	13 25 (Mod) 27B (Mod)	35 69		35						40		10	1	
LOCATION 47 SWEETWATER ROAD UC Br No. 57-0639R/L	805	NB/SB	9.05	13 25 (Mod) 27B (Mod)	45 175		45						32		8	1	
LOCATION 48 ROUTE 805/ 54 SEPARATION Br No. 57-0746R/L	805	NB/SB	8.80	8 13 25 (Mod) 27B (Mod) 36A				45					24		6	1	
SUB-TOTAL					1,134	683	451	273	45	83		50	272		68	12	
SHEET 5 TOTAL					1,134	1,134		273	45	83		50	272		80		

NOTE: ALL PAVEMENT DELINEATION TO BE REPLACED IN-KIND

PAVEMENT DELINEATION QUANTITIES PDQ-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
CAMILLE ABOUFADEL
FUNCTIONAL SUPERVISOR
CHECKED BY
SHAHIN ADIBI
DON LUONG
REVISOR BY
DATE REVISED

LAST REVISION DATE PLOTTED => 02-MAY-2012
02-03-12 TIME PLOTTED => 15:11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	60	116

01-25-12
REGISTERED CIVIL ENGINEER DATE

4-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SHAHIN T. ADIBI
No. 54839
Exp. 06-30-12
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.

PAVEMENT DELINEATION QUANTITIES

LOCATION	ROUTE	DIRECTION	POST MILE	DETAIL No.	PAINT TRAFFIC STRIPE (1-COAT)	THERMOPLASTIC TRAFFIC STRIPE						THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER				DESCRIPTION/COMMENTS
					3"	4"			8"				(NON-REFLECTIVE)	(RETROREFLECTIVE)			
					BLACK SOLID	WHITE SOLID	YELLOW SOLID	WHITE BROKEN 36-12	WHITE BROKEN 17-7	WHITE SOLID	WHITE BROKEN 12-3		TYPE A	TYPE C	TYPE G	TYPE H	
					LF	LF	LF	LF	LF	LF	LF		EA	EA	EA	EA	
LOCATION 49 SWEETWATER RIVER BRIDGE Br No. 57-0638R/L	805	NB/SB	8.60	13									56		14		4
				25 (Mod)	154		154										
LOCATION 50 BONITA ROAD UC Br No. 57-0637R	805	NB	7.70	13									28		8		2
				25 (Mod)	84		84										
LOCATION 51 TELEGRAPH CANYON ROAD UC Br No. 57-0635R/L	805	NB/SB	6.00	13									28		7		2
				25 (Mod)	80		80										
LOCATION 52 NAPLES STREET UC Br No. 57-0634L	805	SB	5.54	13									20		5		2
				25 (Mod)	60		60										
LOCATION 53 OTAY VALLEY ROAD (MAIN STREET) UC Br No. 57-0632R/L	805	NB/SB	3.65	13									28		7		1
				25 (Mod)	30		30										
LOCATION 54 OTAY RIVER BRIDGE Br No. 57-0631R/L	805	NB/SB	3.34	13									48		12		4
				25 (Mod)	153		153										
LOCATION 55 DEL SOL BOULEVARD UC Br No. 57-0854R/L	805	NB/SB	2.17	13									20	24	5		2
				25 (Mod)	64		64										
LOCATION 56 SAN YSIDRO BOULEVARD UC Br No. 57-0776R/L	805	NB/SB	0.65	13									48		12		4
				25 (Mod)	136		136										
SUB-TOTAL					1,397	636	761			60	166		276	24	74	21	
SHEET 6 TOTAL					1,397	1,397				60	166		276	119			

NOTE: ALL PAVEMENT DELINEATION TO BE REPLACED IN-KIND

PAVEMENT DELINEATION QUANTITIES PDQ-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
 CALCULATED/DESIGNED BY: DON LUONG
 CHECKED BY: SHAHIN ADIBI
 REVISED BY: DATE REVISED:

LAST REVISION: DATE PLOTTED => 02-MAY-2012
 02-03-12 TIME PLOTTED => 15:11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	61	116

01-25-12
REGISTERED CIVIL ENGINEER DATE

4-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SHAHIN T. ADIBI
No. 54839
Exp. 06-30-12
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.

PAVEMENT DELINEATION QUANTITIES

LOCATION	PAINT TRAFFIC STRIPE (1-COAT)	THERMOPLASTIC TRAFFIC STRIPE						THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER				DESCRIPTION/COMMENTS	
		3"	4"			8"			(NON-REFLECTIVE)	(RETROREFLECTIVE)				
		BLACK SOLID	WHITE SOLID	YELLOW SOLID	WHITE BROKEN 36-12	WHITE BROKEN 17-7	WHITE SOLID		WHITE BROKEN 12-3	TYPE A	TYPE C	TYPE G		TYPE H
		LF	LF	LF	LF	LF	LF		LF	EA	EA	EA		EA
SHEET 1 TOTAL	576	576			275		60		140	55				
SHEET 2 TOTAL	2,820	2,820			1,731	298	81		184	95				
SHEET 3 TOTAL	1,273	1,273			795				204	71				
SHEET 4 TOTAL	1,464	1,464			827				152	61				
SHEET 5 TOTAL	1,134	1,134			273	45	83	50	272	80				
SHEET 6 TOTAL	1,397	1,397					60	166	276	119				
TOTAL	8,664	8,664			3,901	343	224	226	50	1,228	481			

REMOVE PAINTED/ AND OR THERMOPLASTIC (N)

PAVEMENT MARKING				TRAFFIC STRIPE	
ROUTE	LOCATION	DETAIL/TYPE	(SQFT)	4" WIDE (LF)	8" WIDE (LF)
5, 8, 15, 52, 94 & 805	VARIES	8, 11, 12, 25, 25 (Mod) 27B, 27B (Mod)		9,741	
		36, 36A, 37			270
		ARROW (TYPE I)	50		

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

REMOVE PAVEMENT MARKER (N)

ROUTE	LOCATION	TYPE (EA)			
		A	C	G	H
5, 8, 15, 52, 94 & 805	VARIES	1,276	32	326	121

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

PAVEMENT DELINEATION QUANTITIES PDQ-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
DESIGNED BY: DON LUONG
CHECKED BY: SHAHIN ADIBI
REVISOR: REVISED BY: DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	62	116

01-25-12
 REGISTERED CIVIL ENGINEER DATE
 4-30-12
 PLANS APPROVAL DATE

MARVIN A. CANTON
 No. C69855
 Exp. 09-30-12
 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.

NOTES:

1. ALL WORK ON THE APPROACH END UNLESS STATED OTHERWISE.
2. ALL WORK TO BE DONE ON THE OUTSIDE SHOULDER UNLESS STATED OTHERWISE.
3. IN = INSIDE SHOULDER.
4. OUT = OUTSIDE SHOULDER.

METAL BEAM GUARD RAILING

MBGR No.	DIRECTION & ROUTE	LOCATION	BRIDGE No.	POSTMILE	LAYOUT TYPE	EXISTING MBGR (N)		REMOVE METAL BEAM GUARD RAILING		METAL BEAM GUARD RAILING		ALTERNATIVE FLARED TERMINAL SYSTEM		ALTERNATIVE IN-LINE TERMINAL SYSTEM		TERMINAL SYSTEM (TYPE X-TENSION)		TRANSITION RAILING (TYPE WB)		MINOR CONCRETE (MINOR STRUCTURE)		ANCHOR BLOCK (N)	GUARD RAILING DELINEATOR	REMARKS	
						(LF)		(LF)		(LF)		(EA)		(EA)		(EA)		(EA)		(CY)					(EA)**
						IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT				
1	NB Rte 5	11	57-0263	5.10	12D		62.5		37.5		200.0												17	CONNECT TO BRIDGE NUMBER 57-0246 (PM 5.01)	
2	NB Rte 5	4	57-0007R	56.40	12A		600		25									1		0.60	TYPE 1	2	WORK TO BE DONE AT BRIDGE CONNECTION		
3	NB Rte 5	2	57-0005R	61.40	12B		61		61				1					1		0.60	TYPE 1	5			
4	SB Rte 5	10	57-0275	49.70	12B		1823		25									1		0.98	TYPE 9 AI+ 5	2	WORK TO BE DONE AT BRIDGE CONNECTION		
5	SB Rte 5	7	57-0125	52.20	12B		73		73		200.0		1					1		0.98	TYPE 9 AI+ 5	22			
6	SB Rte 5	5	57-0581L	55.30	12B		1004		25									1		0.60	TYPE 1	2	WORK TO BE DONE AT BRIDGE CONNECTION		
7	SB Rte 5	1	57-0587L	63.70	12B		3606		25									1		0.60	TYPE 1	2	WORK TO BE DONE AT BRIDGE CONNECTION		
8	EB Rte 8	22	57-0364R	15.30	12A		59		59					1				1		0.60	TYPE 1	5			
9	EB Rte 8	21	57-0366R	16.05	12A		980		25									1		0.60	TYPE 1	2	WORK TO BE DONE AT BRIDGE CONNECTION		
10	EB Rte 8	19	57-0462R	21.82	12B		105		105		43.75		1					1		10.95	TYPE 2	9			
11	EB Rte 8	18	57-0534R	23.64	12B		698		25									1		0.60	TYPE 1	2	WORK TO BE DONE AT BRIDGE CONNECTION		
12	EB Rte 8	16	57-0528R	26.73	12B		837		25									1		2.00	*	2	WORK TO BE DONE AT BRIDGE CONNECTION		
13	WB Rte 8	24	57-0362	13.66	12B		117		117		56.25		1					1		0.60	TYPE 1	10			
14	WB Rte 8	23	57-0363L	14.59	12B		102		102		187.5		1					1		0.60	TYPE 1	21			
15	WB Rte 8	19	57-0426L	21.82	12B		85		85		125		1					1		0.60	TYPE 1	16			
16	WB Rte 8	14	57-0690L	39.62	12B		73		73		12.5		1					1		0.57	TYPE 9 AI+ 2	6			
SUBTOTAL Q-1									887.5		825.00		7		1				15		21.48		125		

(N) NOT A PAY ITEM, FOR INFORMATION ONLY
 SEE CONSTRUCTION DETAILS SHEETS FOR TYPE 1, 2, & 9 ANCHOR BLOCK DETAILS.
 * SEE STANDARD PLANS SHEET A78G, FOR ANCHOR BLOCK DETAIL.
 ** DELINEATOR TO BE PLACED AT EVERY 12 FT MAXIMUM SPACING OF NEW MBGR.

SUMMARY OF QUANTITIES Q-1

LAST REVISION DATE PLOTTED => 02-MAY-2012 16:09
 02-03-12 TIME PLOTTED => 16:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	63	116

 01-25-12
 REGISTERED CIVIL ENGINEER DATE

4-30-12
 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.



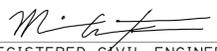
METAL BEAM GUARD RAILING

MBGR No.	DIRECTION & ROUTE	LOCATION	BRIDGE No.	POSTMILE	LAYOUT TYPE	EXISTING MBGR (N)		REMOVE METAL BEAM GUARD RAILING		METAL BEAM GUARD RAILING		ALTERNATIVE FLARED TERMINAL SYSTEM		ALTERNATIVE IN-LINE TERMINAL SYSTEM		TERMINAL SYSTEM (TYPE X-TENSION)		TRANSITION RAILING (TYPE WB)		MINOR CONCRETE (MINOR STRUCTURE)		ANCHOR BLOCK (N)	GUARD RAILING DELINEATOR	REMARKS		
						(LF)		(LF)		(LF)		(EA)		(EA)		(EA)		(EA)		(CY)					(EA)**	
						IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT					
17	NB Rte 15	28	57-0817R	31.90	12B		61		61		200.0												TYPE 25	22		
18	NB Rte 15	25	57-0889R	41.80	12B		90		90		31.25												TYPE 25	8		
19	SB Rte 15	27	57-0819L	33.61	12A		61		61					1									TYPE 25	5		
20	SB Rte 15	26	57-0894L	39.30	12B		86		86		25.0												TYPE 25	7		
21	EB Rte 52	31	57-0744R	2.29	12B	64	77	64	77	180.0	60.0	1	1					1	1	0.98	0.98		TYPE 9 Alt 5	30		
22	EB Rte 94	35	57-0663R	4.00	12B		61		61														TYPE 25	5		
23	WB Rte 94	39	57-0430F	1.46	12B		100		100		37.5												TYPE 1	8		
24	WB Rte 94	38	57-0361	2.68	12B		62		62														TYPE 25	6		
25	WB Rte 94	36	57-0107L	3.36	12B		100		100		37.5												TYPE 27	8		
26	NB Rte 805	53	57-0632R	3.65	12A		46		46		200.0						1						TYPE 9 Alt 2	22		
27	NB Rte 805	46	57-0640R	9.19	12A		116		116		56.25				1								TYPE 9 Alt 5	10		
28	NB Rte 805	45	57-0643	10.28	12B		103		103		43.75				1								TYPE 9 Alt 5	9		
29	SB Rte 805	52	57-0634L	5.54	12A		54		54		70.0						1						TYPE 9 Alt 2	11		
30	SB Rte 805	49	57-0638L	8.60			65		25														TYPE 9 Alt 5	4	WORK TO BE DONE AT BRIDGE CONNECTION	
31	SB Rte 805	45	57-0643	10.28	12B		45		45		100.0												TYPE 9 Alt 5	14		
32	SB Rte 805	42	57-0647	11.36	12B		140		140		275.0												TYPE 9 Alt 5	28		
SUBTOTAL Q-2								64	1,227.0	180.0	1,136.25	1	11			2		2	1	16	0.98	12.60			197	
SUBTOTAL Q-1									887.5		825.00		7		1				15		21.48				125	
TOTAL									2,178.5		2,141.25		19		3		2		32		35.06				322	

(N) NOT A PAY ITEM, FOR INFORMATION ONLY
 SEE CONSTRUCTION DETAILS SHEETS FOR TYPE 1, 9, 25, & 27 ANCHOR BLOCK DETAILS.
 ** DELINEATOR TO BE PLACED AT EVERY 12 FT MAXIMUM SPACING OF NEW MBGR.

SUMMARY OF QUANTITIES Q-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	64	116

 01-25-12
 REGISTERED CIVIL ENGINEER DATE

4-30-12
 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.



TRAFFIC CONTROL SYSTEM

LOCATION	BRIDGE No.	POSTMILE	DIRECTION	TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION MODULE	TRAFFIC PLASTIC DRUM	TEMPORARY CRASH CUSHION (TYPE ADIEM)
				LF	EA	EA	EA
				4	57-0007R	56.40	NB Rte 5
2	57-0005R	61.40	NB Rte 5	100	14	6	
10	57-0275	49.70	SB Rte 5	100	14	6	
7	57-0125	52.20	SB Rte 5	100	14	6	
5	57-0581L	55.30	SB Rte 5	100	14	6	
1	57-0587L	63.70	SB Rte 5	100	14	6	
22	57-0364R	15.30	EB Rte 8	100	14	6	
21	57-0366R	16.05	EB Rte 8	100	14	6	
19	57-0462R	21.82	EB Rte 8	140	14	6	
18	57-0534R	23.64	EB Rte 8	100	14	6	
16	57-0528R	26.73	EB Rte 8	100	14	6	
24	57-0362	13.66	WB Rte 8	100	14	6	
23	57-0363L	14.59	WB Rte 8	100	14	6	
19	57-0426L	21.82	WB Rte 8	100		6	1
14	57-0690L	39.62	WB Rte 8	100	14	6	
28	57-0817R	31.90	NB Rte 15	100	14	6	
25	57-0889R	41.80	NB Rte 15	100	14	6	
27	57-0819L	34.20	SB Rte 15	100	14	6	
26	57-0894L	39.30	SB Rte 15	100	14	6	
31	57-0744R	2.29	EB Rte 52	200		12	2
35	57-0663R	4.00	EB Rte 94	100	14	6	
39	57-0430F	1.46	WB Rte 94	100		6	1
38	57-0361	2.68	WB Rte 94	100		6	1
36	57-0107L	3.36	WB Rte 94	100		6	1
53	57-0632R	3.65	NB Rte 805	100	14	6	
46	57-0640R	9.19	NB Rte 805	100	14	6	
45	57-0643	10.28	NB Rte 805	100	14	6	
52	57-0634L	5.54	SB Rte 805	100	14	6	
49	57-0638L	8.60	SB Rte 805	100	14	6	
45	57-0643	10.28	SB Rte 805	100	14	6	
42	57-0647	11.36	SB Rte 805	100	14	6	
TOTAL				3,240	364	192	6

HMA DIKE

LOCATION	BRIDGE No.	DIRECTION	POST MILE	REMOVE AC DIKE		PLACE HMA DIKE		MINOR HMA TON
				TYPE	LF	TYPE C LF	TYPE F LF	
4	57-0007R	NB Rte 5	56.40	A	25.00		25.00	0.33
2	57-0005R	NB Rte 5	61.40	F	87.50	62.50	25.00	0.81
7	57-0125	SB Rte 5	52.20	F	98.00	62.50	35.50	0.94
5	57-0581L	SB Rte 5	55.30	A	25.00		25.00	0.33
19	57-0462R	EB Rte 8	21.82	A	193.75	62.50	131.25	2.21
18	57-0534R	EB Rte 8	23.64	F	25.00		25.00	0.33
24	57-0362	WB Rte 8	13.66	F	143.75	62.50	81.25	1.55
23	57-0363L	WB Rte 8	14.59	A	250.00	62.50	187.50	2.95
19	57-0426L	WB Rte 8	21.82	F	187.50	62.50	125.00	2.13
14	57-0690L	WB Rte 8	39.62	A	75.00	62.50	12.50	0.64
28	57-0817R	NB Rte 15	31.90	A	287.50	62.50	225.00	3.45
25	57-0889R	NB Rte 15	41.80	A	118.75	62.50	56.25	1.22
27	57-0819L	SB Rte 15	33.61	F	87.50	62.50	25.00	0.81
26	57-0894L	SB Rte 15	39.30	F	112.50	62.50	50.00	1.14
35	57-0663R	EB Rte 94	4.00	A	87.50	62.50	25.00	0.81
39	57-0430F	WB Rte 94	1.46	A	125.00	62.50	62.50	1.30
38	57-0361	WB Rte 94	2.68	F	87.50	62.50	25.00	0.81
36	57-0107L	WB Rte 94	3.36	F	100.00	62.50	37.50	0.97
53	57-0632R	NB Rte 805	3.65	A	287.50	62.50	225.00	3.45
45	57-0643	NB Rte 805	10.28	A	131.25	62.50	68.75	1.38
52	57-0634L	SB Rte 805	5.54	F	156.25	62.50	93.75	1.71
TOTAL					2,754.25	1,125.00	1,766.75	31.91

FOG SEAL COAT

TYPE OF DIKE	LENGTH (N)	ASPHALTIC EMULSION (FOG SEAL COAT) (N)
	LF	TON
C	1125.00	0.04
F	1766.75	0.06
TOTAL		0.10

(N) NOT A PAY ITEM, FOR INFORMATION ONLY

SUMMARY OF QUANTITIES

Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
 FUNCTIONAL SUPERVISOR: KAZIM MAMDANI
 CALCULATED/DESIGNED BY: JIM ALSHEIKH
 CHECKED BY: MARVIN A. CANTON
 REVISED BY: DATE REVISED

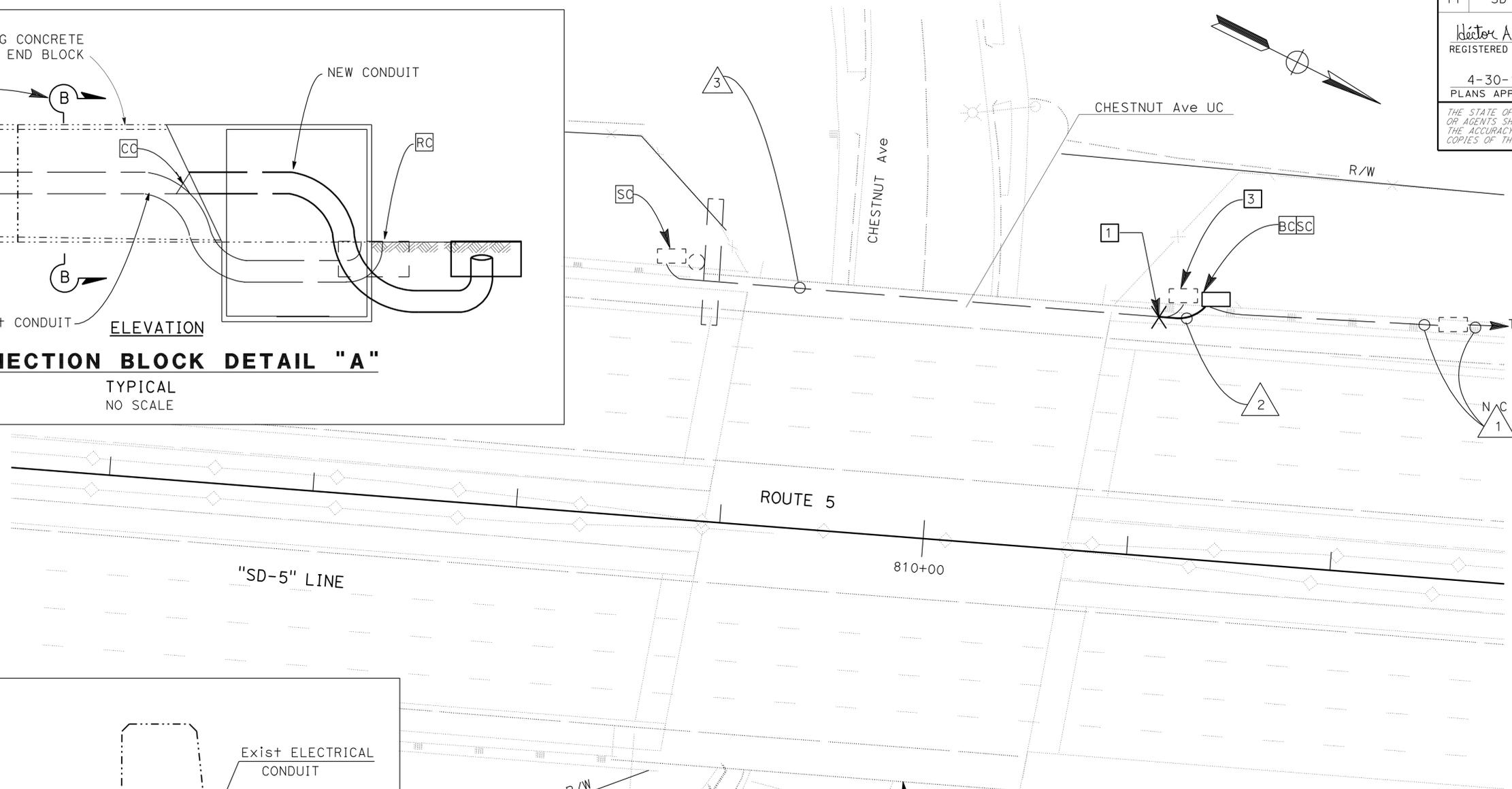
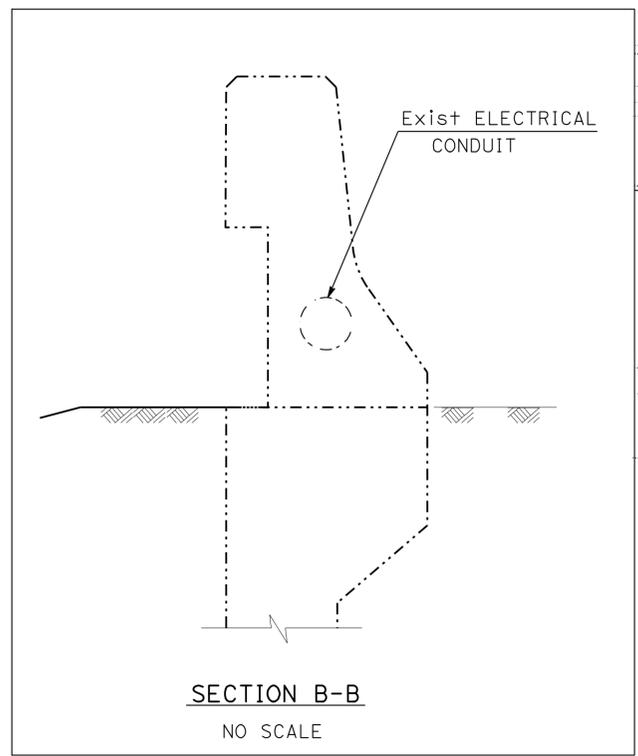
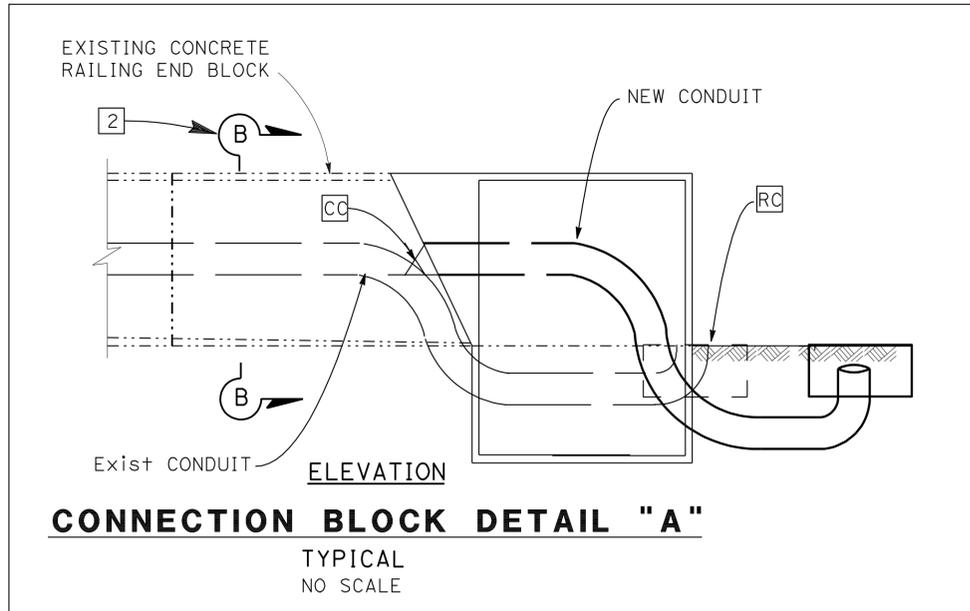
LAST REVISION: DATE PLOTTED => 02-MAY-2012 02-03-12 TIME PLOTTED => 16:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	65	116

Hector A. Santamaria 01-25-12
REGISTERED ELECTRICAL ENGINEER DATE
4-30-12
PLANS APPROVAL DATE

HECTOR A. SANTAMARIA
No. 18207
Exp. 12-31-13
ELECTRICAL
STATE OF CALIFORNIA

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



- NOTES:**
- SEE CONNECTION BLOCK DETAIL "A" ON THIS SHEET.
 - SEE SECTION B-B ON THIS SHEET.
 - RC Exist PULL BOX.
 - FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- LEGEND**
- NC = NO CHANGE

- CONDUIT NOTES:**
- NC
1 - Exist 2"C, 2#8(s)
2 - 1 1/2"C, 2#8(S)
3 - Exist 2"C, 2#8(s).
RC 2#8(s).
ADD 2#8(S)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL

FUNCTIONAL SUPERVISOR
BRIAN PECUS

REVISOR
HECTOR SANTAMARIA
ENRIQUE BERNAL

DESIGNER
HECTOR SANTAMARIA
ENRIQUE BERNAL

CHECKED BY

DESIGNED BY

DATE REVISION

APPROVED FOR ELECTRICAL WORK ONLY

LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 20'

E-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	66	116

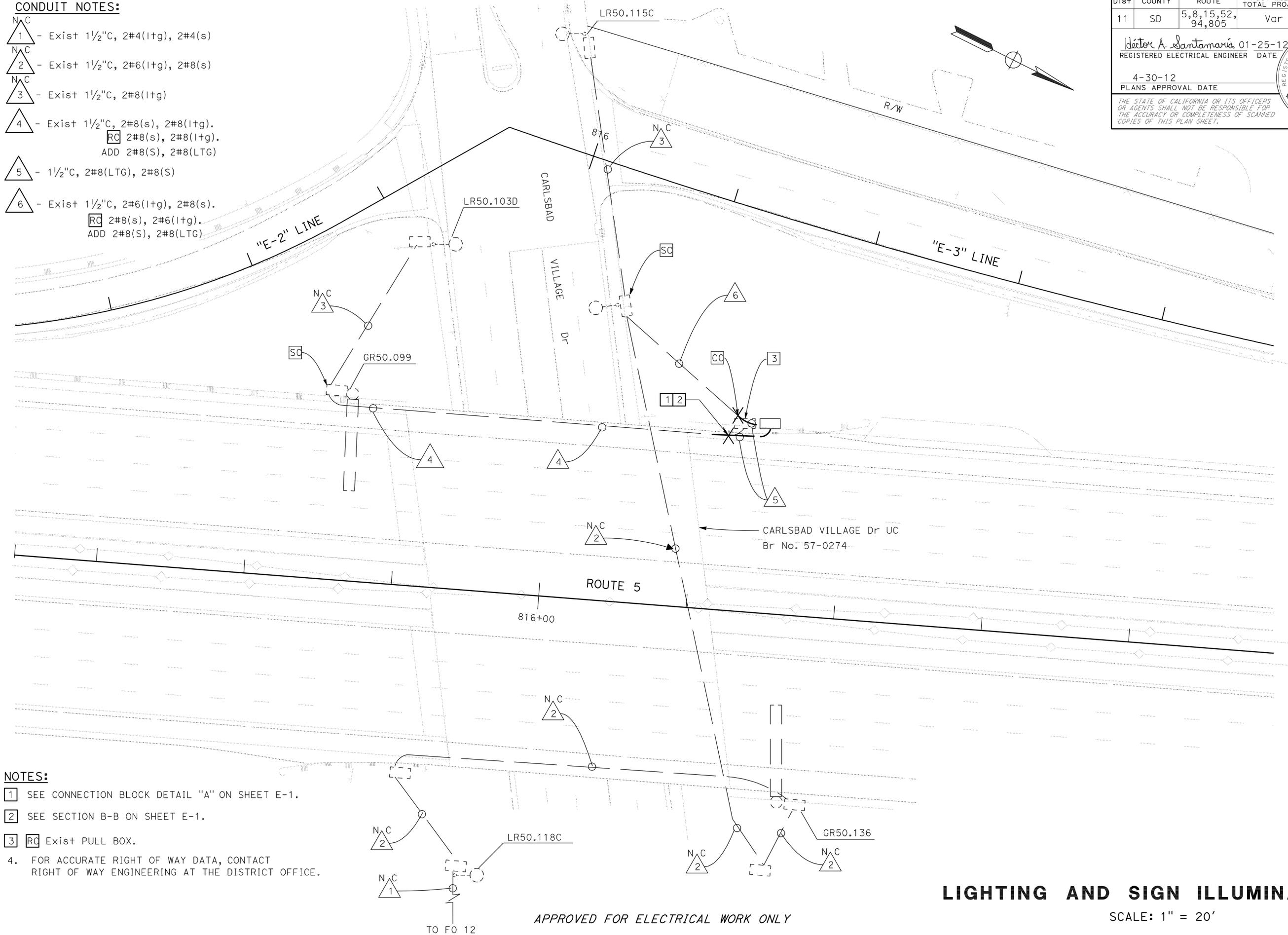
Hector A. Santamaria 01-25-12
REGISTERED ELECTRICAL ENGINEER DATE

4-30-12
PLANS APPROVAL DATE

HECTOR A. SANTAMARIA
No. 18207
Exp. 12-31-13
ELECTRICAL

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.

- CONDUIT NOTES:**
- 1 - Exist 1/2"C, 2#4(1tg), 2#4(s)
 - 2 - Exist 1/2"C, 2#6(1tg), 2#8(s)
 - 3 - Exist 1/2"C, 2#8(1tg)
 - 4 - Exist 1/2"C, 2#8(s), 2#8(1tg).
RC 2#8(s), 2#8(1tg).
ADD 2#8(S), 2#8(LTG)
 - 5 - 1/2"C, 2#8(LTG), 2#8(S)
 - 6 - Exist 1/2"C, 2#6(1tg), 2#8(s).
RC 2#8(s), 2#6(1tg).
ADD 2#8(S), 2#8(LTG)



- NOTES:**
- 1 SEE CONNECTION BLOCK DETAIL "A" ON SHEET E-1.
 - 2 SEE SECTION B-B ON SHEET E-1.
 - 3 RC Exist PULL BOX.
 4. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC ELECTRICAL**

HECTOR SANTAMARIA
ENRIQUE BERNAL

BRIAN PECUS

FUNCTIONAL SUPERVISOR
CALCULATED/DESIGNED BY
CHECKED BY

BORDER LAST REVISED 7/2/2010

USERNAME => s123631
DGN FILE => 1100020184ud002.dgn

RELATIVE BORDER SCALE IS IN INCHES



UNIT 2833

PROJECT NUMBER & PHASE

11000201841

LIGHTING AND SIGN ILLUMINATION
SCALE: 1" = 20'
E-2

APPROVED FOR ELECTRICAL WORK ONLY

LAST REVISION DATE PLOTTED => 02-MAY-2012
02-03-12 TIME PLOTTED => 15:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	67	116

Hector A. Santamaria 01-25-12
REGISTERED ELECTRICAL ENGINEER DATE

4-30-12
PLANS APPROVAL DATE

HECTOR A. SANTAMARIA
No. 18207
Exp. 12-31-13
ELECTRICAL

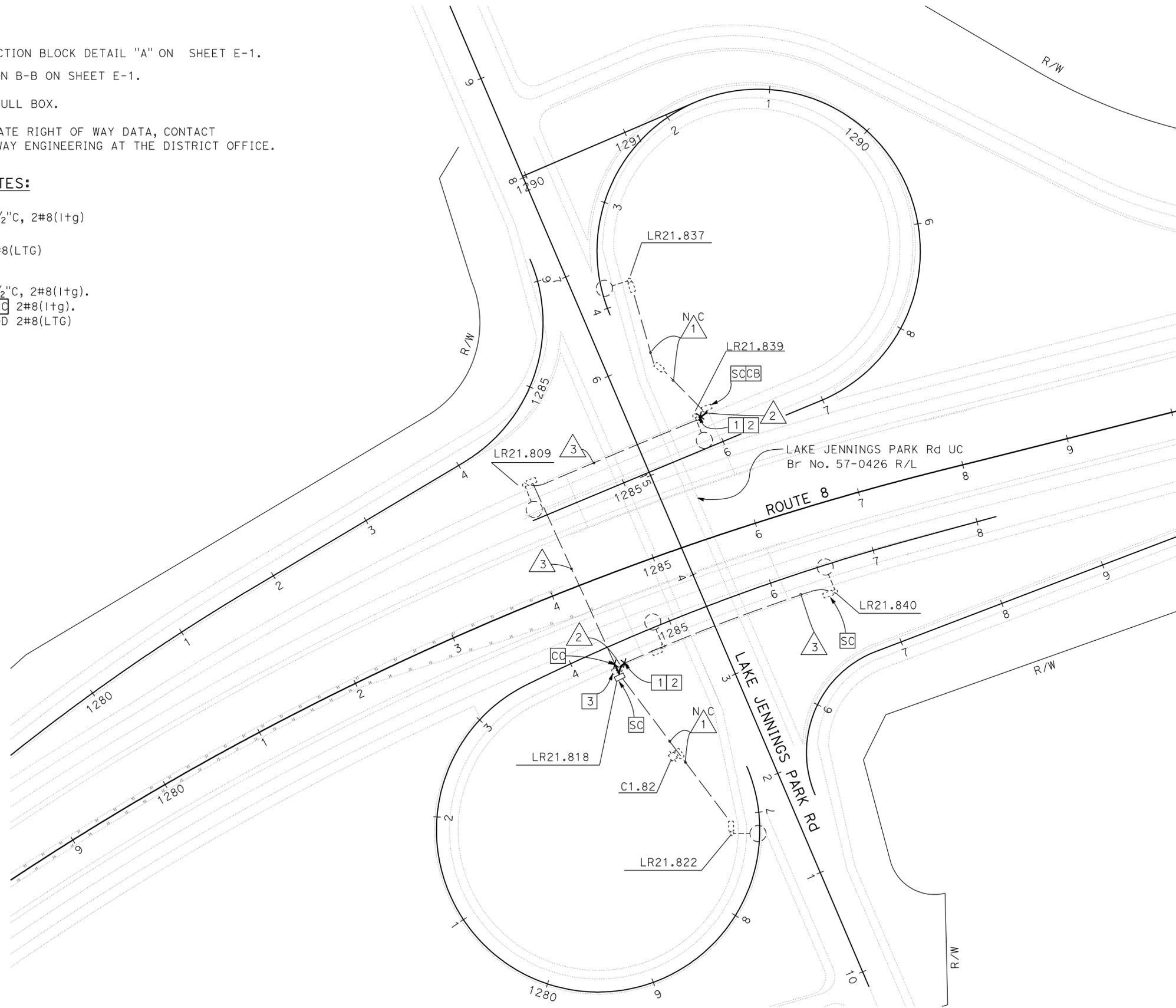
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- 1 SEE CONNECTION BLOCK DETAIL "A" ON SHEET E-1.
- 2 SEE SECTION B-B ON SHEET E-1.
- 3 **RC** Exist PULL BOX.
- 4. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CONDUIT NOTES:

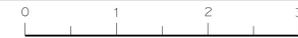
- N/C**
1 - Exist 1 1/2" C, 2#8(I+g)
- 2 - 1 1/2" C, 2#8(LTG)
- 3 - Exist 1 1/2" C, 2#8(I+g).
RC 2#8(I+g).
ADD 2#8(LTG)



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HECTOR SANTAMARIA	REVISOR
Caltrans TRAFFIC ELECTRICAL	ENRIQUE BERNAL	DATE
FUNCTIONAL SUPERVISOR	CHECKED BY	DATE
BRIAN PECUS		
DESIGNED BY		

APPROVED FOR ELECTRICAL WORK ONLY

LIGHTING AND SIGN ILLUMINATION
SCALE: 1" = 50'
E-3



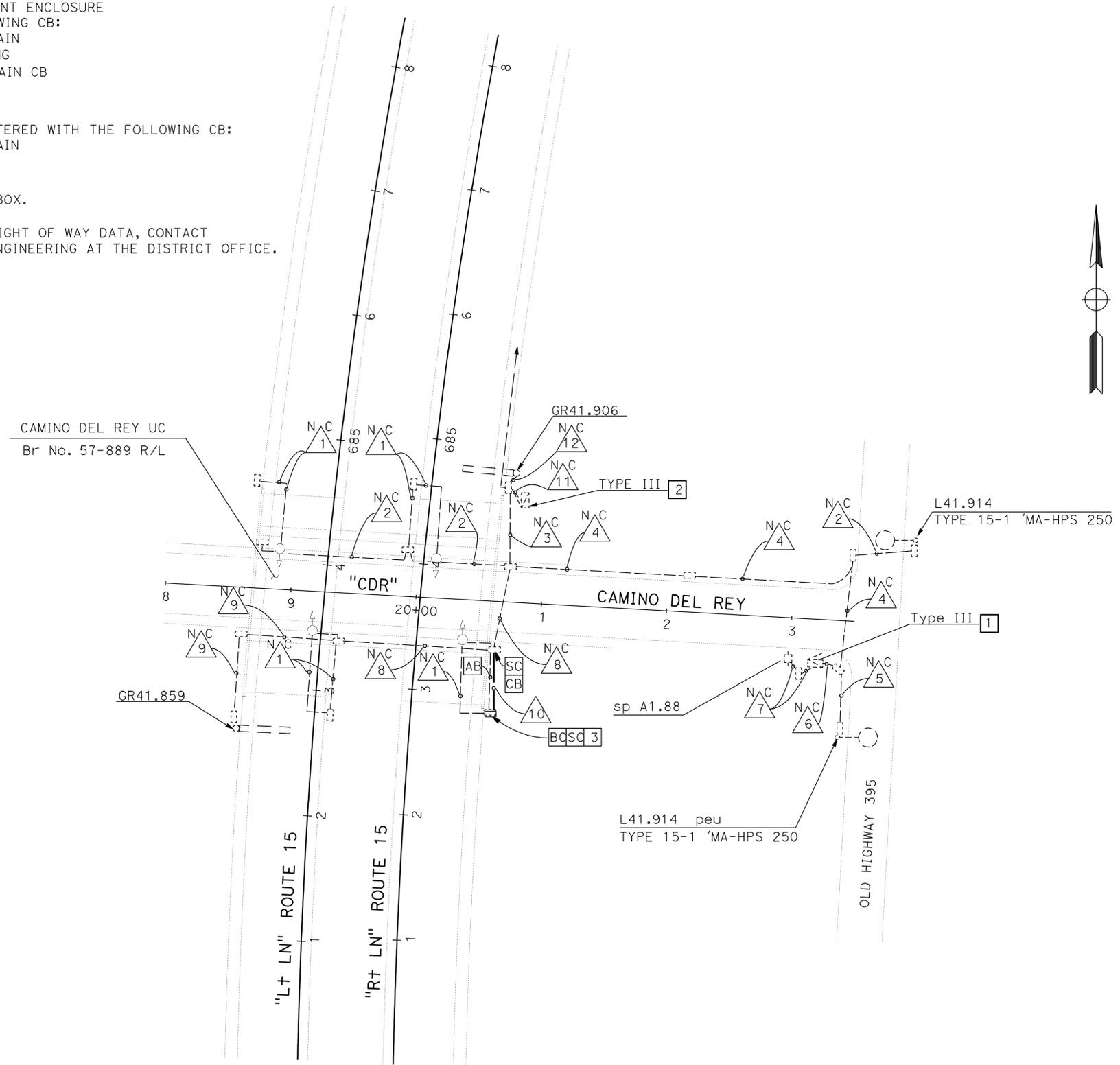
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	68	116

Hector A. Santamaria 01-25-12
REGISTERED ELECTRICAL ENGINEER DATE
4-30-12
PLANS APPROVAL DATE

HECTOR A. SANTAMARIA
No. 18207
Exp. 12-31-13
ELECTRICAL

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- NOTES:**
- Exist 120/240 V, 1 PHASE, 3-WIRE, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CB:
MAIN 2P-70 A MAIN
2P-20 A LIGHTING
2P-40 A TO [2] MAIN CB
2P-15 A PEU
2P-20 A SPARE
 - Exist 240 V METERED WITH THE FOLLOWING CB:
MAIN 2P-30 A MAIN
2P-20 A SIGN
2P-15 A PEU
 - [RC] Exist PULL BOX.
4. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



- CONDUIT NOTE:**
- N/C 1 - Exist 1"C, 2#10(1tg)
 - N/C 2 - Exist 1 1/2"C, 2#10(1tg)
 - N/C 3 - Exist 1 1/2"C, 2#2(service), 2#6(s)
 - N/C 4 - Exist 1 1/2"C, 2#2(service), 2#10(1tg)
 - N/C 5 - Exist 1 1/2"C, 2#10(1tg), 3#14(peu)
 - N/C 6 - Exist 1 1/2"C, 2#2(service), 2#10(1tg), 3#14(peu)
 - N/C 7 - Exist 1 1/2"C, 2#2(service)
 - N/C 8 - Exist 1 1/2"C, 2#8(1tg), 2#10(s)
 - N/C 9 - Exist 1 1/2"C, 2#10(s)
 - N/C 10 - 2"C, 2#10(LTG)
 - N/C 11 - Exist 1 1/2"C, 2#4(power), 2#6(s), 2#4(s), 3#14(peu)
 - N/C 12 - Exist 1 1/2"C, 3#14(peu), 2#10(s)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL

FUNCTIONAL SUPERVISOR: BRIAN PECUS
DESIGNED BY: HECTOR SANTAMARIA
CHECKED BY: ENRIQUE BERNAL

REVISOR: HECTOR SANTAMARIA
DATE: 01-25-12

APPROVED FOR ELECTRICAL WORK ONLY

LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

E-4

LAST REVISION: DATE PLOTTED => 02-MAY-2012
02-03-12 TIME PLOTTED => 15:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	69	116

Hector A. Santamaria 01-25-12
REGISTERED ELECTRICAL ENGINEER DATE

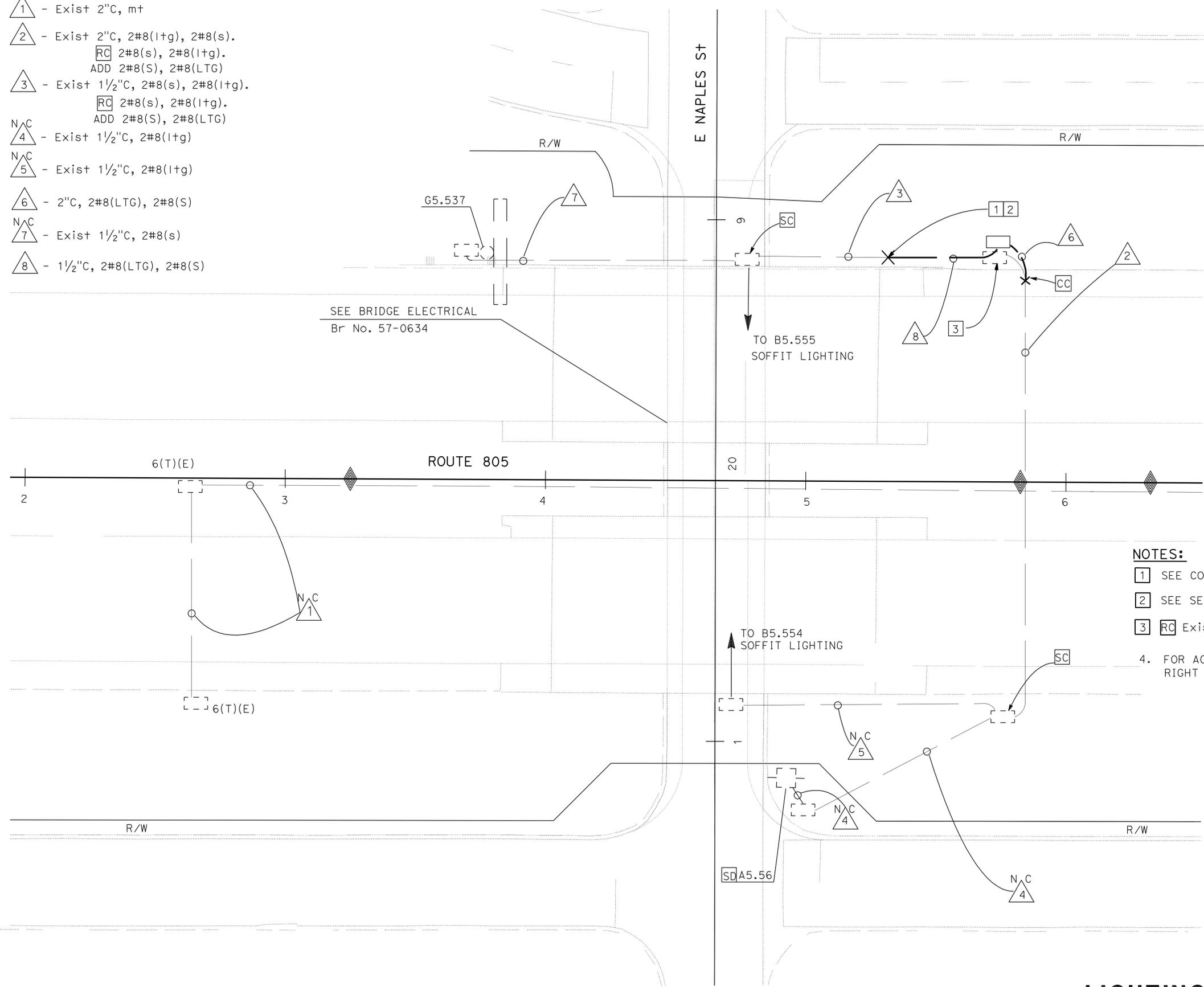
4-30-12
PLANS APPROVAL DATE

HECTOR A. SANTAMARIA
No. 18207
Exp. 12-31-13
ELECTRICAL

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CONDUIT NOTES:

- N/C 1 - Exist 2"C, mt
- 2 - Exist 2"C, 2#8(1tg), 2#8(s).
RC 2#8(s), 2#8(1tg).
ADD 2#8(S), 2#8(LTG)
- 3 - Exist 1 1/2"C, 2#8(s), 2#8(1tg).
RC 2#8(s), 2#8(1tg).
ADD 2#8(S), 2#8(LTG)
- N/C 4 - Exist 1 1/2"C, 2#8(1tg)
- N/C 5 - Exist 1 1/2"C, 2#8(1tg)
- 6 - 2"C, 2#8(LTG), 2#8(S)
- N/C 7 - Exist 1 1/2"C, 2#8(s)
- 8 - 1 1/2"C, 2#8(LTG), 2#8(S)



NOTES:

- 1 SEE CONNECTION BLOCK DETAIL "A" ON SHEET E-1.
- 2 SEE SECTION B-B ON SHEET E-1.
- 3 RC Exist PULL BOX.
- 4. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL

REVISOR BY DATE

HECTOR SANTAMARIA ENRIQUE BERNAL

CALCULATED/DESIGNED BY CHECKED BY

FUNCTIONAL SUPERVISOR BRIAN PECUS

APPROVED FOR ELECTRICAL WORK ONLY

LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 20'

E-5



LAST REVISION DATE PLOTTED => 02-MAY-2012
02-03-12 TIME PLOTTED => 15:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	70	116

Hector A. Santamaria 01-25-12
REGISTERED ELECTRICAL ENGINEER DATE

4-30-12
PLANS APPROVAL DATE

HECTOR A. SANTAMARIA
No. 18207
Exp. 12-31-13
ELECTRICAL

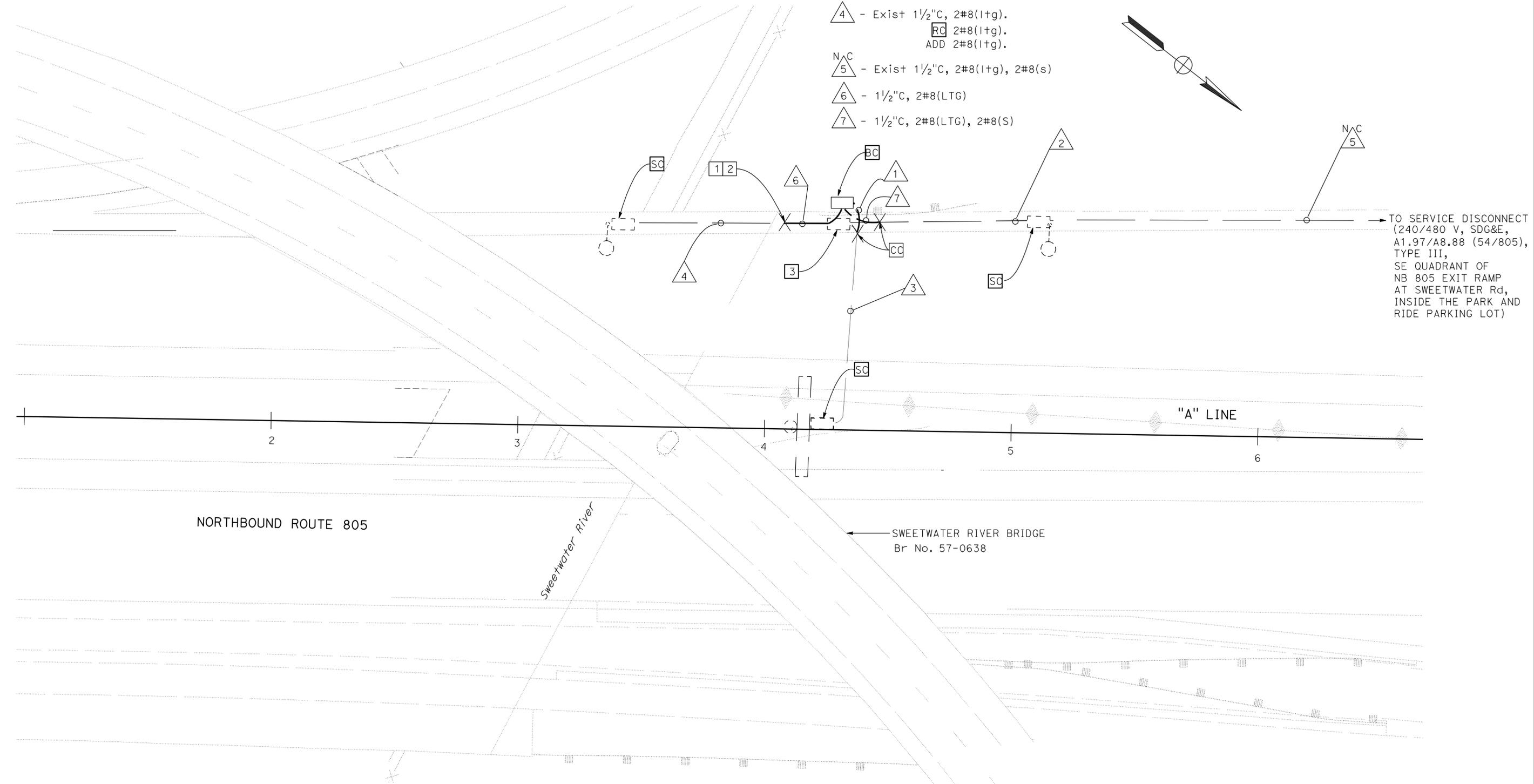
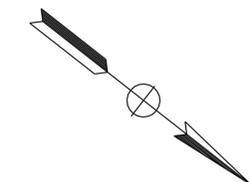
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- 1 SEE CONNECTION BLOCK DETAIL "A" ON SHEET E-1.
- 2 SEE SECTION B-B ON SHEET E-1.
- 3 RC Exist PULL BOX.
4. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CONDUIT NOTES:

- 1 - 2"C, 2#8(LTG)
- 2 - Exist 1 1/2"C, 2#8(1tg), 2#8(s).
RC 2#8(1tg), 2#8(s).
ADD 2#8(LTG), 2#8(S)
- 3 - Exist 2"C, 2#8(s).
RC 2#8(s).
ADD 2#8(S).
- 4 - Exist 1 1/2"C, 2#8(1tg).
RC 2#8(1tg).
ADD 2#8(1tg).
- N/C 5 - Exist 1 1/2"C, 2#8(1tg), 2#8(s)
- 6 - 1 1/2"C, 2#8(LTG)
- 7 - 1 1/2"C, 2#8(LTG), 2#8(S)



TO SERVICE DISCONNECT
(240/480 V, SDG&E,
A1.97/A8.88 (54/805),
TYPE III,
SE QUADRANT OF
NB 805 EXIT RAMP
AT SWEETWATER Rd,
INSIDE THE PARK AND
RIDE PARKING LOT)

REVISOR	DATE	REVISION
HECTOR SANTAMARIA		
ENRIQUE BERNAL		
CALCULATED/DESIGNED BY	CHECKED BY	
BRIAN PECUS		
FUNCTIONAL SUPERVISOR		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		
Caltrans TRAFFIC ELECTRICAL		

LIGHTING AND SIGN ILLUMINATION
SCALE: 1" = 20'
E-6

APPROVED FOR ELECTRICAL WORK ONLY

LAST REVISION DATE PLOTTED => 02-MAY-2012 02-03-12 TIME PLOTTED => 15:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	71	116

Hector A. Santamaria 01-25-12
REGISTERED ELECTRICAL ENGINEER DATE

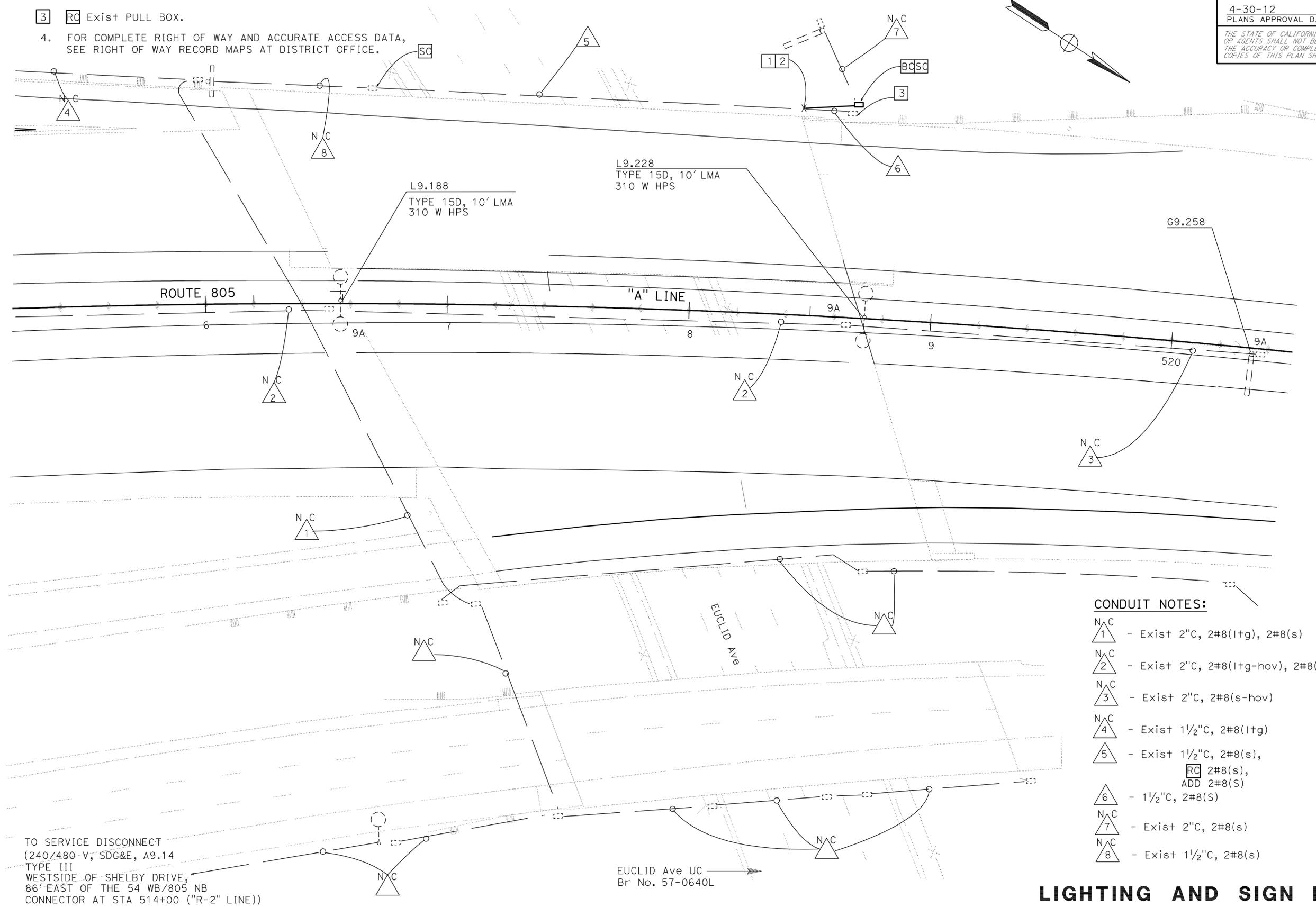
4-30-12
PLANS APPROVAL DATE

HECTOR A. SANTAMARIA
No. 18207
Exp. 12-31-13
ELECTRICAL

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 SEE CONNECTION BLOCK DETAIL "A" ON SHEET E-1.
- 2 SEE SECTION B-B ON SHEET E-1.
- 3 RC Exist PULL BOX.
4. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



CONDUIT NOTES:

- N.C. 1 - Exist 2"C, 2#8(1tg), 2#8(s)
- N.C. 2 - Exist 2"C, 2#8(1tg-hov), 2#8(s-hov)
- N.C. 3 - Exist 2"C, 2#8(s-hov)
- N.C. 4 - Exist 1 1/2"C, 2#8(1tg)
- N.C. 5 - Exist 1 1/2"C, 2#8(s), RC 2#8(s), ADD 2#8(S)
- N.C. 6 - 1 1/2"C, 2#8(S)
- N.C. 7 - Exist 2"C, 2#8(s)
- N.C. 8 - Exist 1 1/2"C, 2#8(s)

TO SERVICE DISCONNECT
(240/480-V, SDG&E, A9.14
TYPE III
WESTSIDE OF SHELBY DRIVE,
86' EAST OF THE 54 WB/805 NB
CONNECTOR AT STA 514+00 ("R-2" LINE))

EUCLID Ave UC
Br No. 57-0640L

APPROVED FOR ELECTRICAL WORK ONLY

LIGHTING AND SIGN ILLUMINATION
SCALE: 1" = 20'
E-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	HECTOR SANTAMARIA	REVISOR
Caltrans TRAFFIC ELECTRICAL	BRIAN PECUS	ENRIQUE BERNAL	DATE
	CHECKED BY		REVISED
	DESIGNED BY		DATE

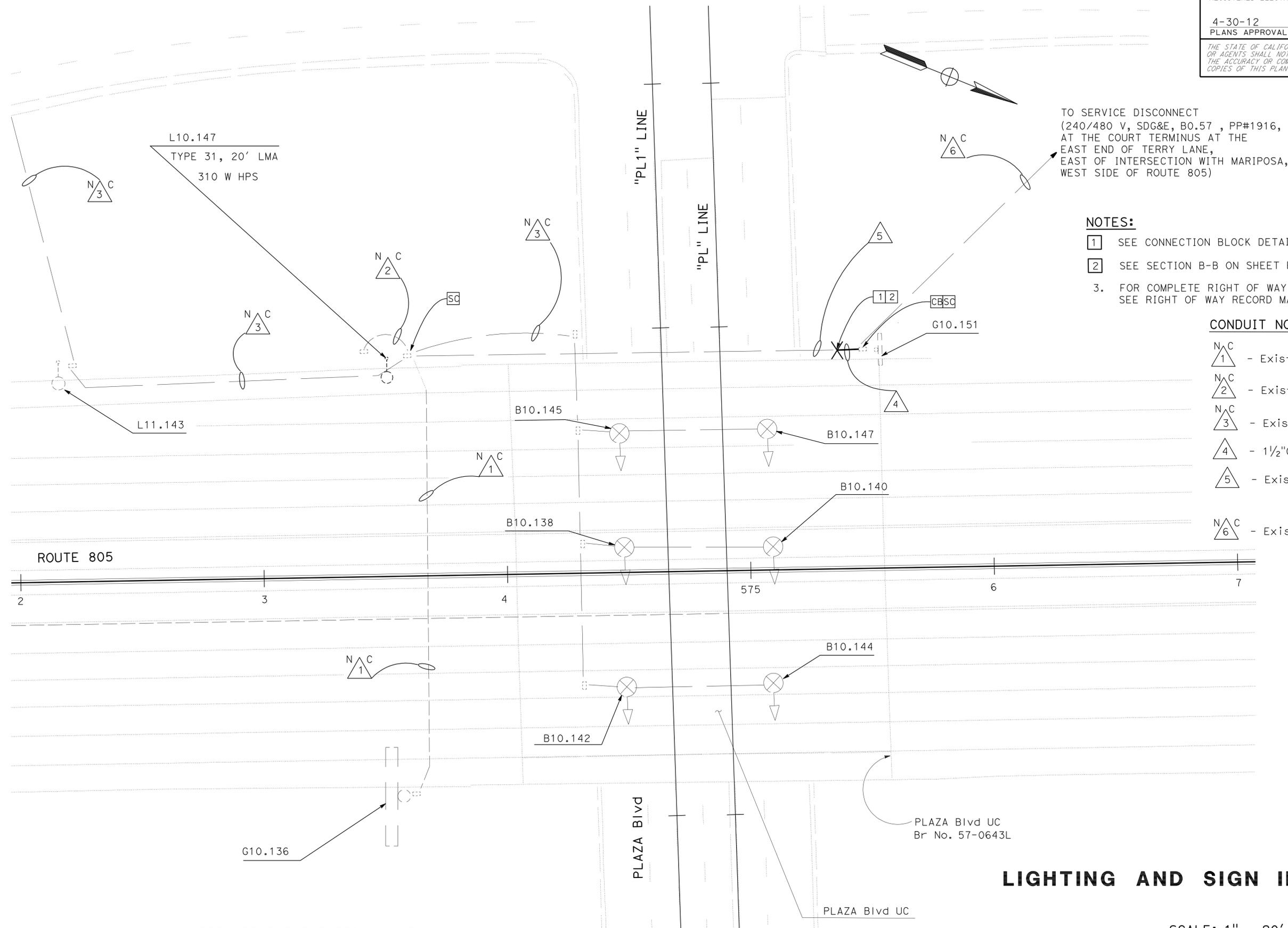
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	72	116

Hector A. Santamaria 01-25-12
REGISTERED ELECTRICAL ENGINEER DATE

HECTOR A. SANTAMARIA
No. 18207
Exp. 12-31-13
ELECTRICAL
STATE OF CALIFORNIA

4-30-12
PLANS APPROVAL DATE

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



TO SERVICE DISCONNECT
(240/480 V, SDG&E, B0.57 , PP#1916,
AT THE COURT TERMINUS AT THE
EAST END OF TERRY LANE,
EAST OF INTERSECTION WITH MARIPOSA,
WEST SIDE OF ROUTE 805)

- NOTES:**
- SEE CONNECTION BLOCK DETAIL "A" ON SHEET E-1.
 - SEE SECTION B-B ON SHEET E-1.
 - FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

- CONDUIT NOTES:**
- N/C 1 - Exist 2"C, 2#6(s)
 - N/C 2 - Exist 2"C, 2#6(ltg)
 - N/C 3 - Exist 2"C, 2#8(ltg)
 - 4 - 1 1/2"C, 2#8(LTG), 2#8(S)
 - 5 - Exist 2"C, 2#8(ltg), 2#8(s).
RC 2#8(ltg), 2#8(s).
ADD 2#8(LTG), 2#8(S)
 - N/C 6 - Exist 2"C, 2#6(ltg), 2#8(sign)

LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 20' E-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
FUNCTIONAL SUPERVISOR: BRIAN PECUS
CALCULATED/DESIGNED BY: HECTOR SANTAMARIA
CHECKED BY: ENRIQUE BERNAL
REVISED BY: HECTOR SANTAMARIA
DATE REVISED: 01-25-12

APPROVED FOR ELECTRICAL WORK ONLY

LAST REVISION DATE PLOTTED => 03-MAY-2012
02-03-12 TIME PLOTTED => 14:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52, 94,805	Var	76	116

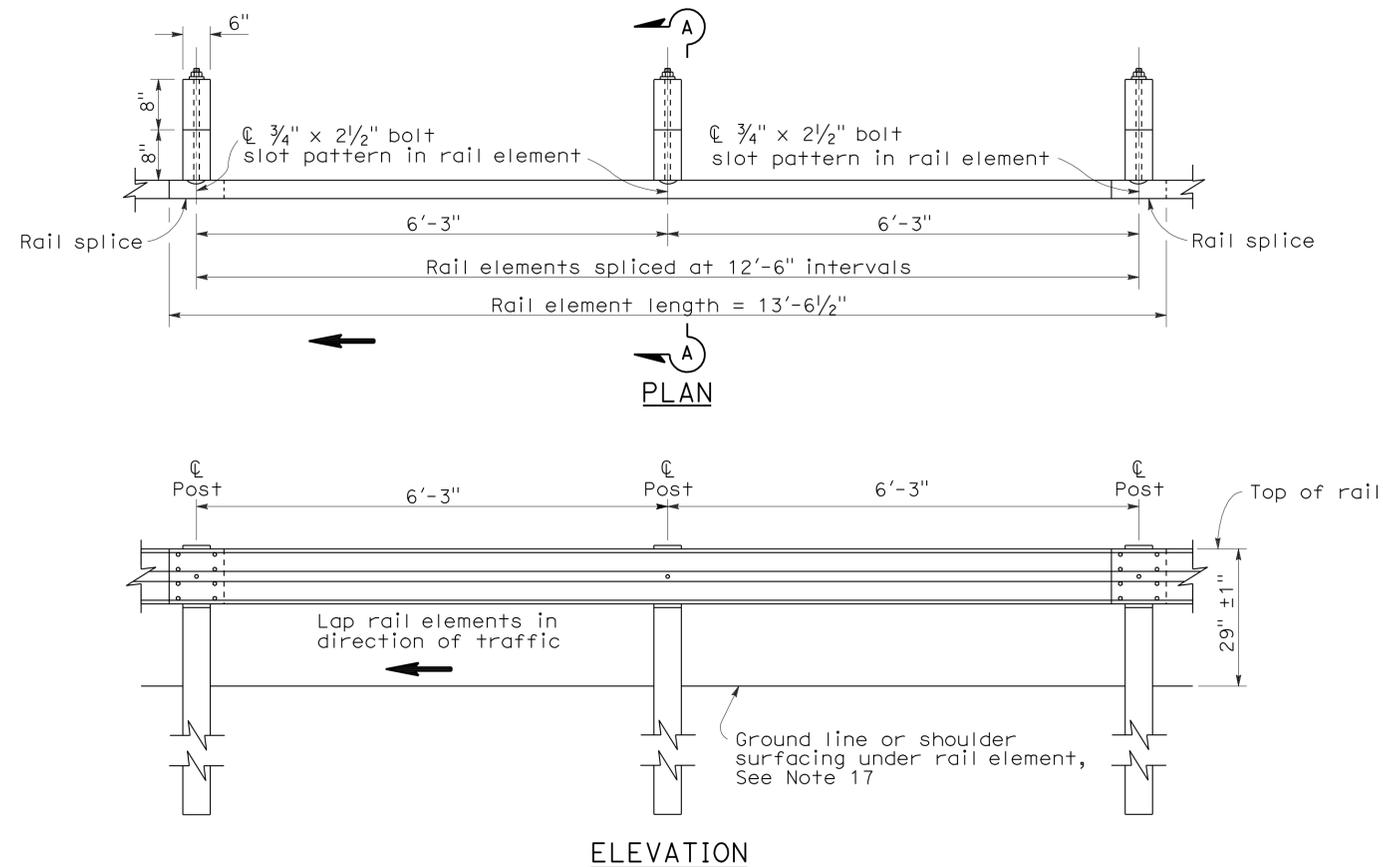
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

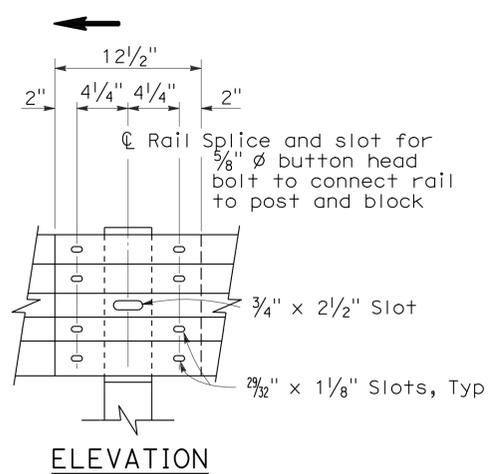
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REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 4-30-12

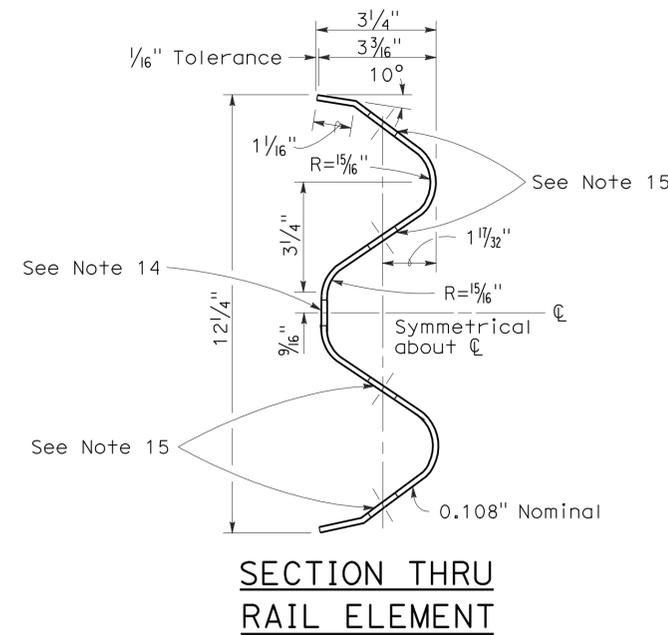


METAL BEAM GUARD RAILING WITH WOOD POST AND BLOCKS

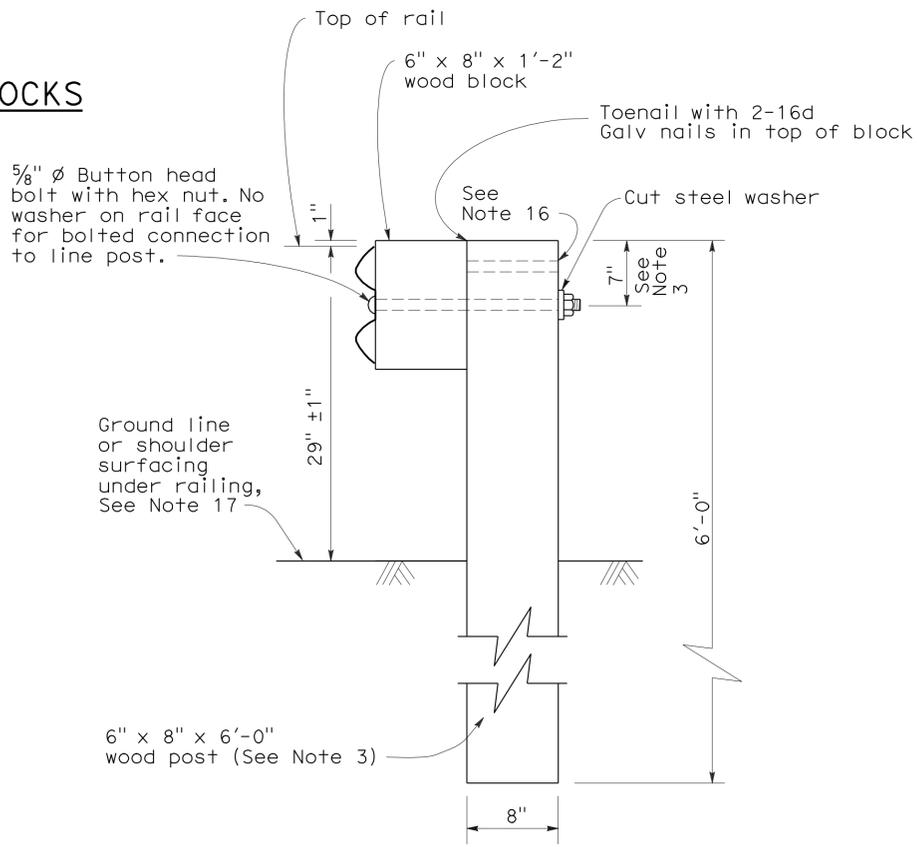


RAIL ELEMENT SPLICE DETAIL

- Connect the over lapped end of the rail elements with 5/8" ϕ x 1 3/8" button head oval shoulder splice bolts inserted into the 29/32" x 1 1/8" slots and bolted together with 5/8" ϕ recessed hex nuts. Recess of hex nut points toward rail element. A total of 8 bolts and nuts are to be used at each rail splice connection.
- The ends of the rail elements are to be overlapped in the direction of traffic (see details).
- Where end cap is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used.



SECTION THRU RAIL ELEMENT



SECTION A-A TYPICAL WOOD LINE POST INSTALLATION

See Note 4

NOTES:

- For details of steel post installations, see Standard Plan A77A2.
- For details of standard hardware used to construct guard railing, see Standard Plan A77B1.
- For details of wood posts and wood blocks used to construct guard railing, see Standard Plan A77C1.
- For additional installation details, see Standard Plan A77C3.
- Guard railing post spacing to be 6'-3" center to center, except as otherwise noted.
- For guard railing typical layouts, see the A77E, A77F and A77G Series of Standard Plans.
- For terminal system end treatment details, see the A77L Series of Standard Plans. To connect railing to terminal system end treatment, transition the top of railing height at a ratio of 120:1 to terminal system end treatment height plus one 12'-6" standard railing section at the transitioned height for a horizontal connection to the end treatment.
- For guard railing end anchor details, see Standard Plans A77H1 and A77I2.
- For details of guard railing transition to bridge railing, see Standard Plan A77J4.
- For additional details of guard railing connection to bridge railings, see Standard Plans A77J1, A77J2 and A77K1.
- For guard railing connection details to abutments and walls, see Standard Plan A77J3.
- Direction of adjacent traffic indicated by \rightarrow .
- For typical guard railing delineation and dike positioning details, see Standard Plan A77C4.
- Slotted hole for bolted connection of rail element to block and post. See "Section Thru Rail Element".
- Slotted holes for splice bolts to overlap ends of rail element. See "Section Thru Rail Element".
- Additional hole in uppermost portion of line post is for potential future adjustments of railing height. See Standard Plan A77C1.
- Install posts in soil.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING STANDARD RAILING SECTION (WOOD POST WITH WOOD BLOCK)

NO SCALE

RSP A77A1 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77A1 DATED MAY 1, 2006 - PAGE 41 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77A1

2006 REVISED STANDARD PLAN RSP A77A1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	77	116

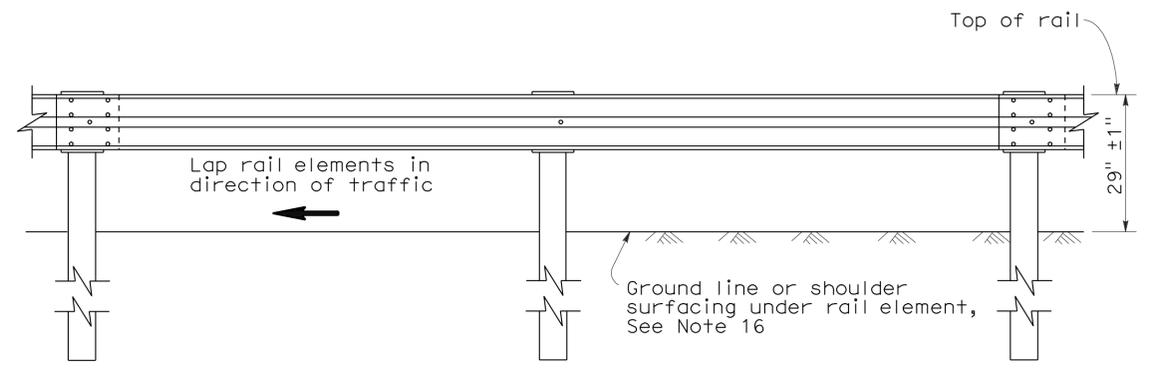
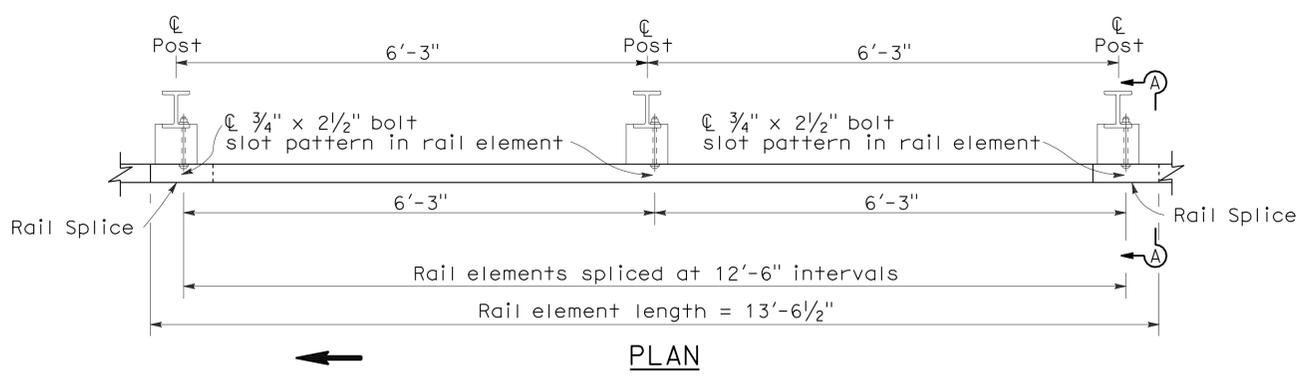
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

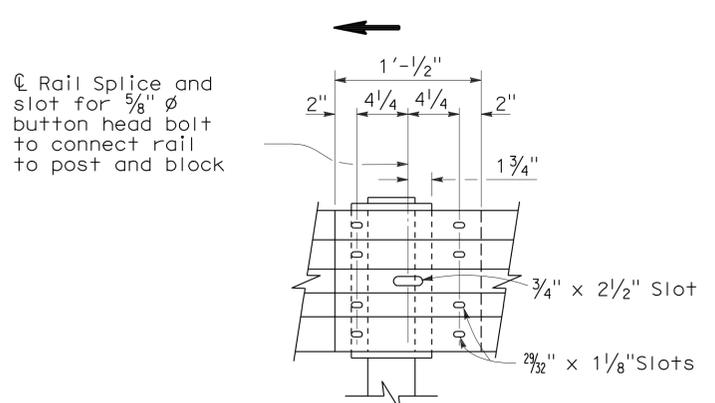
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REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 4-30-12



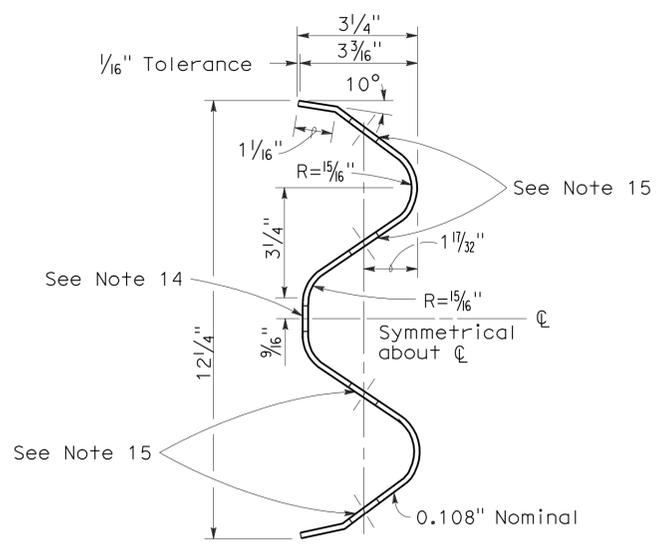
METAL BEAM GUARD RAILING WITH STEEL POSTS AND NOTCHED WOOD OR NOTCHED RECYCLED PLASTIC BLOCKS



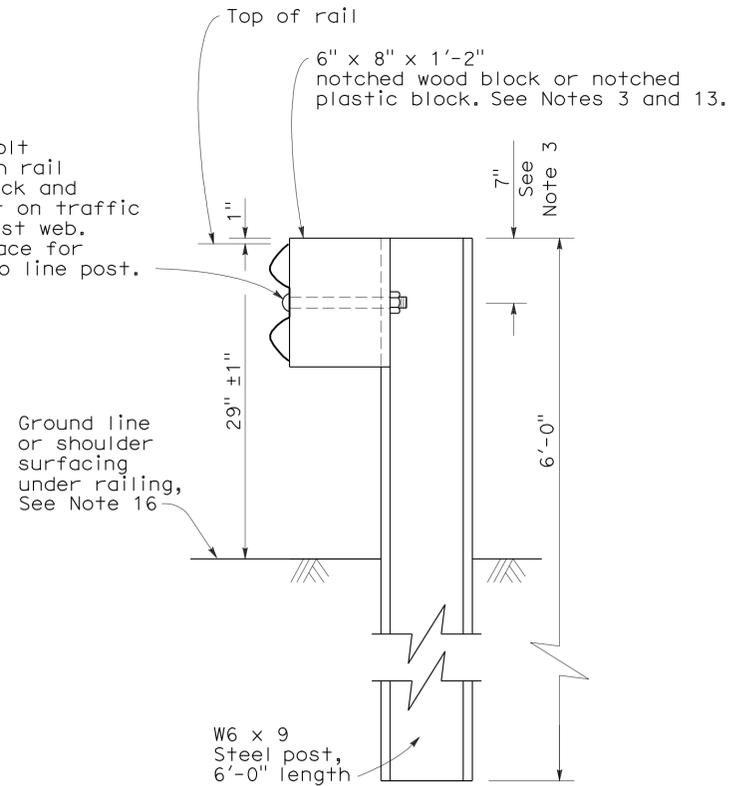
ELEVATION RAIL ELEMENT SPLICE DETAIL

- Connect the overlapped end of the rail elements with 5/8" ϕ x 1 3/8" button head oval shoulder splice bolts inserted into the 2 7/32" x 1 1/8" slots and bolted together with 5/8" ϕ recessed hex nuts. Recess of hex nut points toward rail element. A total of 8 bolts and nuts are to be used at each rail splice connection.
- The ends of the rail elements are to be overlapped in the direction of traffic (see details).
- Where end cap is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used.

5/8" ϕ Button head bolt with hex nut. Attach rail element to wood block and steel post with bolt on traffic approach side of post web. No washer on rail face for bolted connection to line post.



SECTION THRU RAIL ELEMENT



SECTION A-A TYPICAL STEEL LINE POST INSTALLATION

See Note 4

NOTES:

- For details of wood post installations, see Standard Plan A77A1.
- For details of standard hardware used to construct guard railing, see Standard Plan A77B1.
- For details of steel posts and notched wood blocks used to construct guard railing, see Standard Plan A77C2.
- For additional installation details, see Standard Plan A77C3.
- Guard railing post spacing to be 6'-3" center to center, except as otherwise noted.
- For guard railing typical layouts, see the A77E, A77F and A77G Series of Standard Plans.
- For terminal system end treatment details, see the A77L Series of Standard Plans. To connect railing to terminal system end treatment, transition the top of railing height at a ratio of 120:1 to terminal system end treatment height plus one 12'-6" standard railing section at the transitioned height for a horizontal connection to the end treatment.
- For guard railing end anchor details, see Standard Plans A77H1 and A77I2.
- For details of guard railing transition to bridge railing, see Standard Plan A77J4.
- For additional details of guard railing connection to bridge railings, see Standard Plans A77J1, A77J2 and A77K1.
- For dike positioning and guard railing delineation details, see Standard Plan A77C4.
- Direction of adjacent traffic indicated by \rightarrow .
- Notched face of block faces steel post.
- Slotted hole for bolted connection of rail element to block and post. See "Section Thru Rail Element".
- Slotted holes for splice bolts to overlap ends of rail element. See "Section Thru Rail Element".
- Install posts in soil.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING STANDARD RAILING SECTION (STEEL POST WITH NOTCHED WOOD OR NOTCHED RECYCLED PLASTIC BLOCK)

NO SCALE

RSP A77A2 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77A2 DATED MAY 1, 2006 - PAGE 42 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77A2

2006 REVISED STANDARD PLAN RSP A77A2

To accompany plans dated 4-30-12

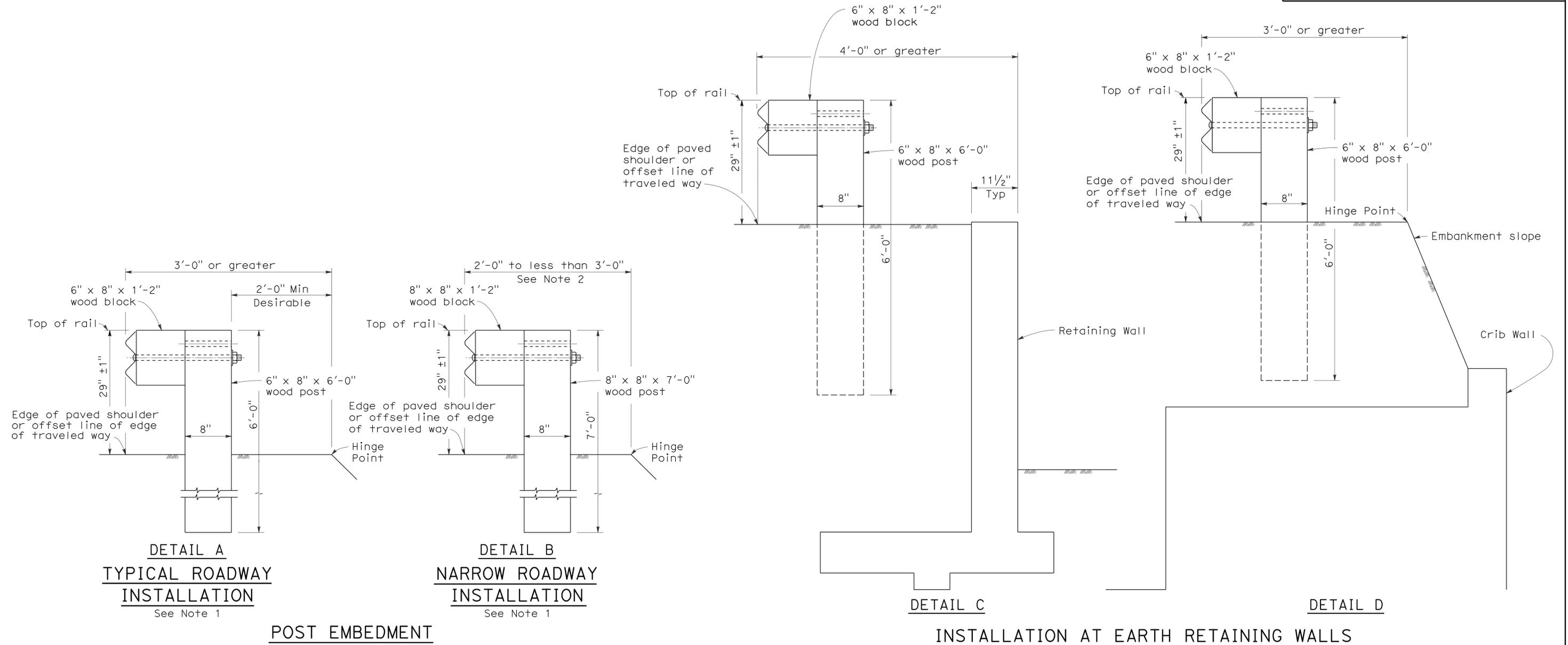
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	78	116

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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NOTES:

1. These installation details also applicable to steel line post installations. For Detail A, C, and D, where steel line post installations are constructed, W6 x 9 steel post, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks are to be used in place of the size of wood post and wood block shown. For Detail B, where steel line post installations are constructed, W6 x 9 steel post, 7'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks are to be used in place of the size of wood post and wood block shown. For additional installation details, see Standard Plans A77A1 and A77A2.
2. Where the distance between the face of the rail and the hinge point is less than 2'-0", see the Project Plans for special details.
3. For dike positioning with guard railing installations, see Standard Plan A77C4.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL LINE POST
EMBEDMENT AND
HINGE POINT OFFSET DETAILS**

NO SCALE

RSP A77C3 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77C3
DATED MAY 1, 2006 - PAGE 46 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77C3

2006 REVISED STANDARD PLAN RSP A77C3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	79	116

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

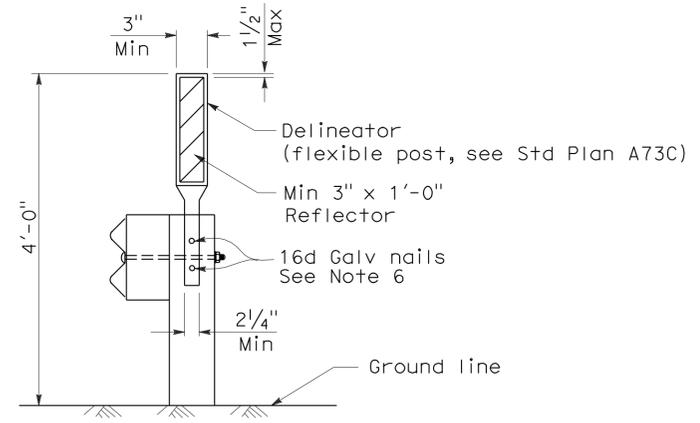
May 20, 2011
PLANS APPROVAL DATE

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.

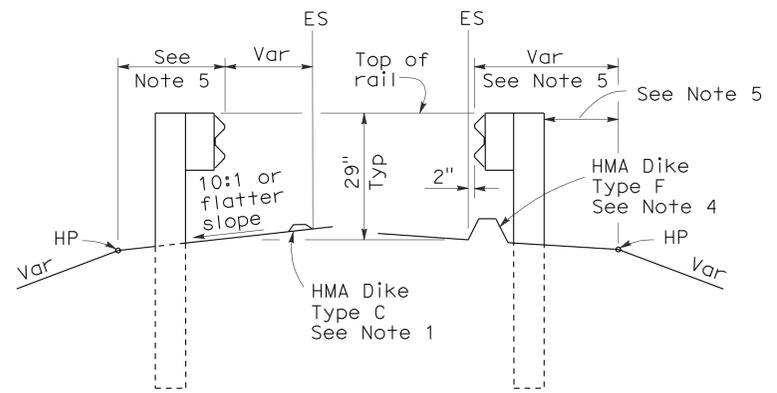
To accompany plans dated 4-30-12

NOTES:

1. When necessary to place dike in front of face of guard railing, only Type C dike may be used. For dike details, see Standard Plan A87B.
2. For standard railing post embedment, see Standard Plans A77C3.
3. Guard railing delineation to be used where shown on the Project Plans.
4. When dike or curb is placed under guard railing, the maximum height of the dike or curb shall be 4". Mountable dike should not be used. For dike and curb details, see Standard Plans A87A and A87B.
5. For details of typical distance between the face of rail and hinge point, see Standard Plan A77C3.
6. For steel line posts, use 1/4" - 20 self-tapping screws in 0.22" diameter holes or 1/4" bolts in 3/32" diameter holes.



GUARD RAILING DELINEATION
See Note 3



DIKE POSITIONING
See Note 1

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL RAILING DELINEATION
AND DIKE POSITIONING DETAILS**

NO SCALE

RSP A77C4 DATED MAY 20, 2011 SUPERSEDES RSP A77C4 DATED JUNE 6, 2008 AND STANDARD PLAN A77C4 DATED MAY 1, 2006 - PAGE 47 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77C4

2006 REVISED STANDARD PLAN RSP A77C4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	80	116

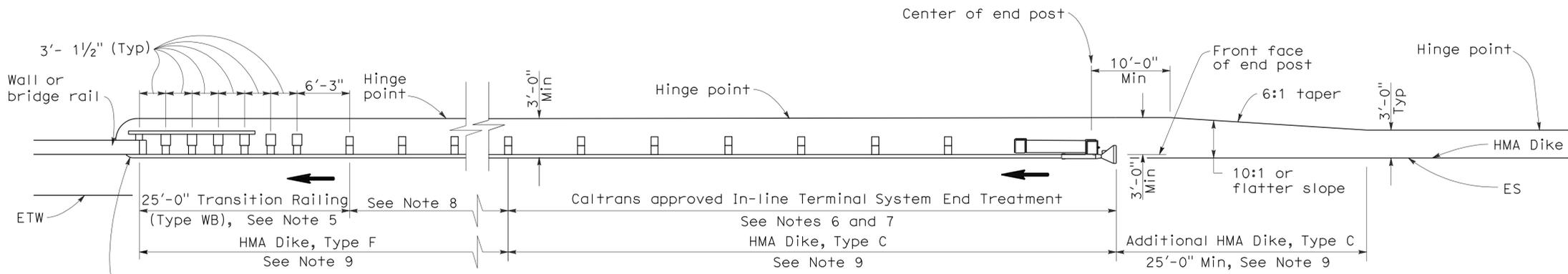
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

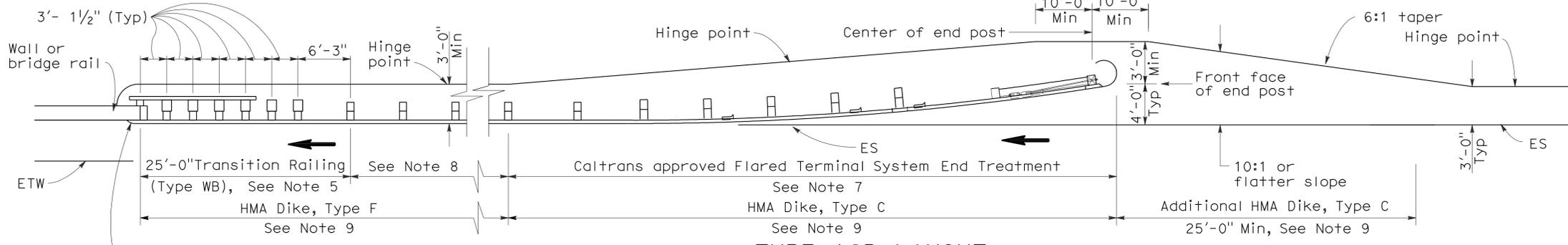
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 4-30-12



TYPE 12A LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH AN IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 10



TYPE 12B LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH A FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 10

NOTES:

- Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- Direction of adjacent traffic indicated by →.
- For Transition Railing (Type WB) details for Types 12A and 12B Layouts, see Standard Plan A77J4.
- In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system end treatment to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, or other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatment.

- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.
- Type 12A or Type 12B Layouts are typically used:
 - To the right of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
 - To the left of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
 - To the right of approaching traffic at the end of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
 - To the right of approaching traffic at the end of the structure on multilane freeways or expressways with decked median on the bridge.
- See Revised Standard Plan RSP A77F3 for typical layout used left of approaching traffic at the ends of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.

- For additional details of typical connections to bridge rail, see Connection Detail AA on Revised Standard Plans RSP A77J1 and RSP A77J2 and Connection Detail FF on Standard Plans A77K1 and A77K2.
- For additional details of a typical connection to walls or abutments, see Standard Plan A77J3.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL LAYOUTS FOR
STRUCTURE APPROACH**

NO SCALE

RSP A77F1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77F1
DATED MAY 1, 2006 - PAGE 54 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77F1

2006 REVISED STANDARD PLAN RSP A77F1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	81	116

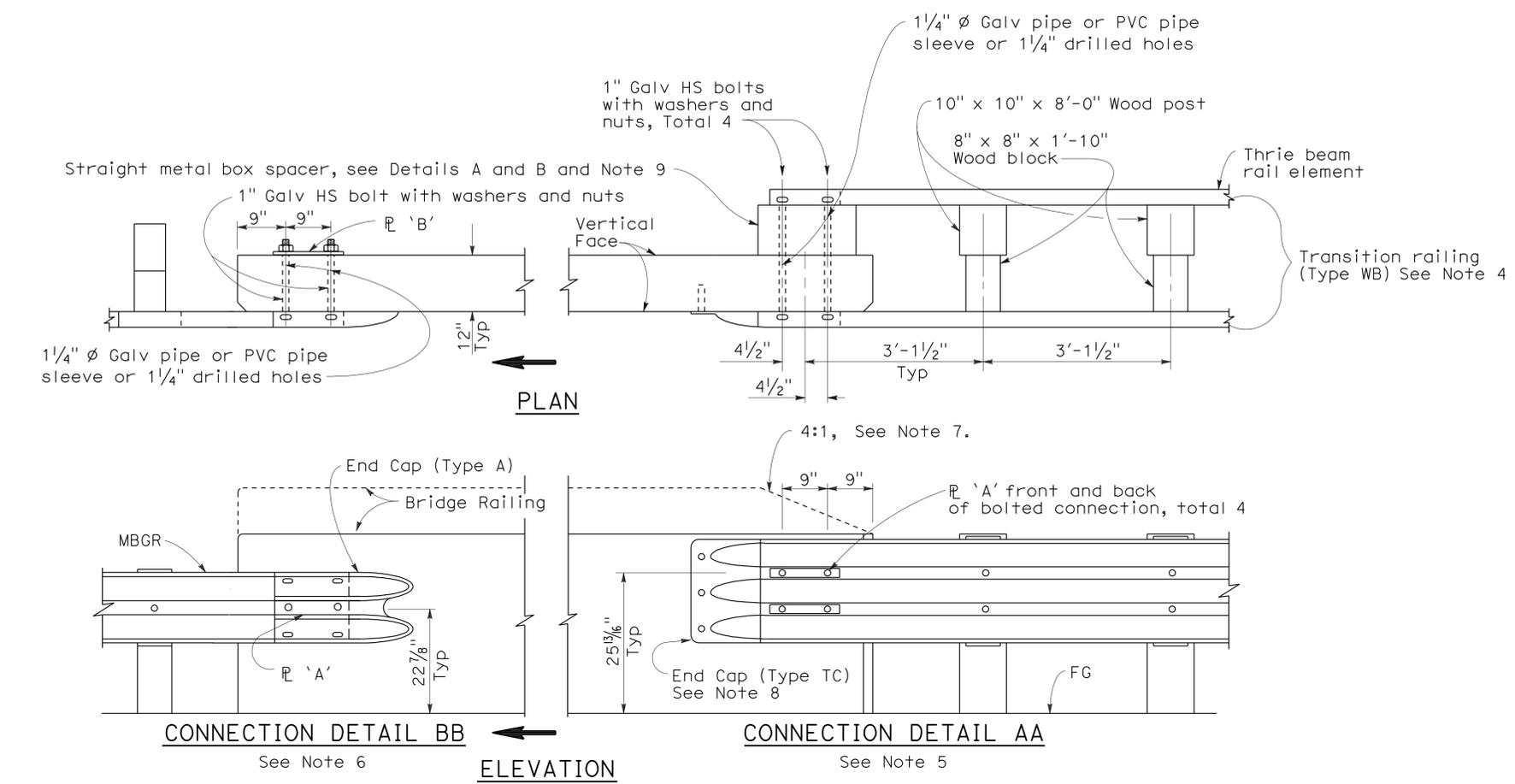
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

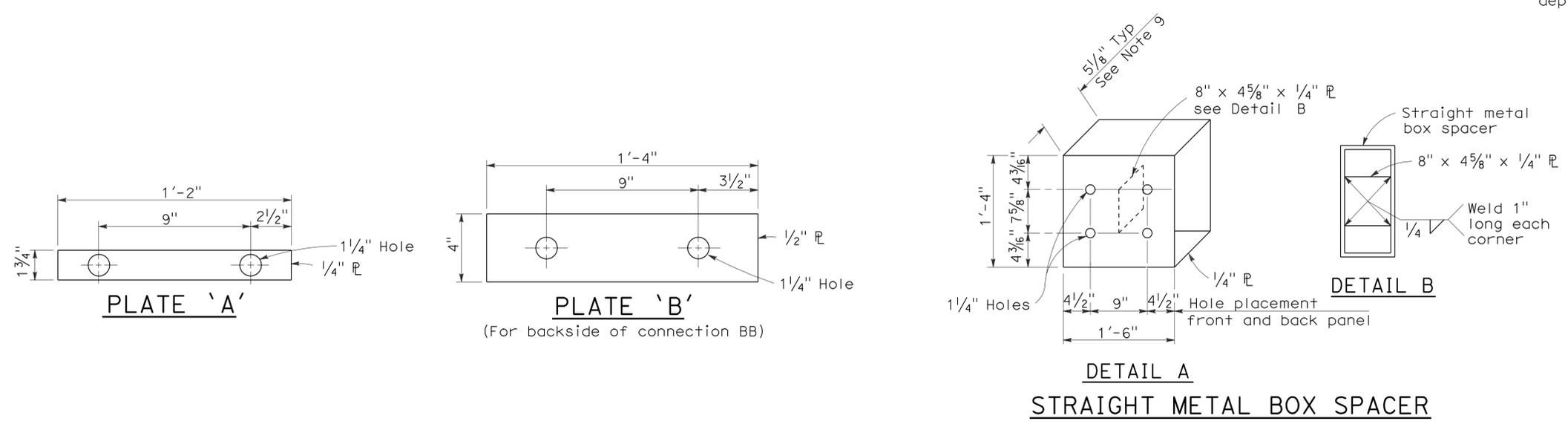
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To accompany plans dated 4-30-12



- NOTES:**
- See Revised Standard Plan RSP A77J2 for additional connection details to bridges without sidewalks.
 - Additional details of posts, blocks and hardware are shown on Standard Plan A77B1, A77C1 and A77C2.
 - Direction of adjacent traffic indicated by \rightarrow .
 - For additional details of Transition Railing (Type WB), see Standard Plan A77J4. Transition Railing (Type WB) transitions the 12 gage w-beam standard railing section of guard railing to a heavier gage nested thrie beam railing section which is connected to the concrete bridge railing.
 - For typical use of Connection Detail AA, see Layout Types 12A and 12B on Revised Standard Plan RSP A77F1, Layout Types 12C and 12D on Standard Plan A77F2, and Layout Type 12E on Revised Standard Plan RSP A77F3.
 - For typical use of Connection Detail BB, see Layout Type 12D (structure departure railing connection) on Standard Plan A77F2 and Layout Type 12DD on Standard Plan A77F5.
 - Where the height of the bridge railing exceeds the height of the thrie beam railing by more than 1" at Connection Detail AA, taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam rail.
 - For details of End Cap (Type TC), see Standard Plan A77J4.
 - See Standard Plan A77J4 for additional details regarding depth dimension for straight metal box spacer.

GUARD RAILING CONNECTION TO BRIDGE RAILING WITHOUT SIDEWALK



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
METAL BEAM GUARD RAILING CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS DETAILS No.1

NO SCALE
RSP A77J1 DATED MAY 20, 2011 SUPERSEDES RSP A77J1 DATED JUNE 6, 2008 AND STANDARD PLAN A77J1 DATED MAY 1, 2006 - PAGE 72 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A77J1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	82	116

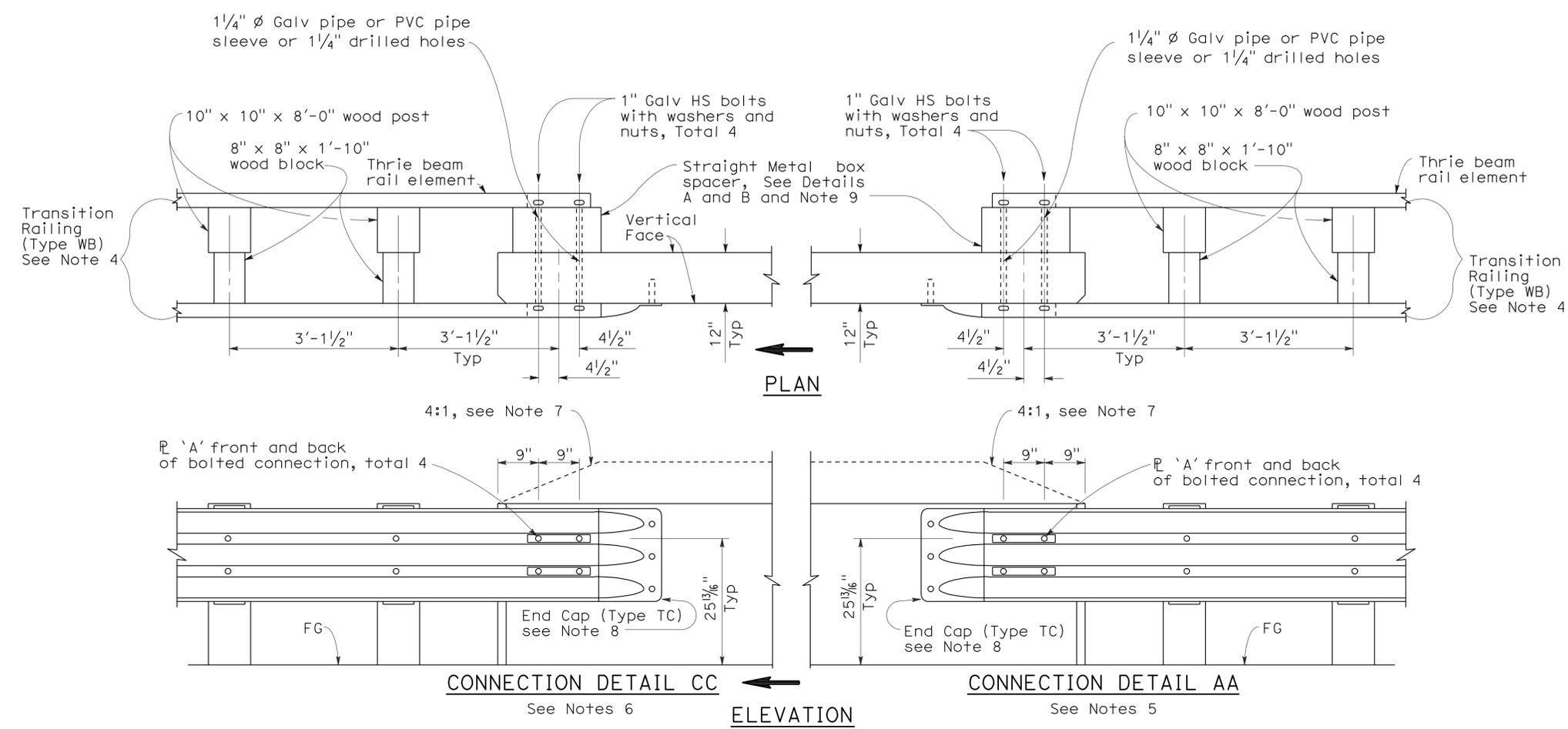
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

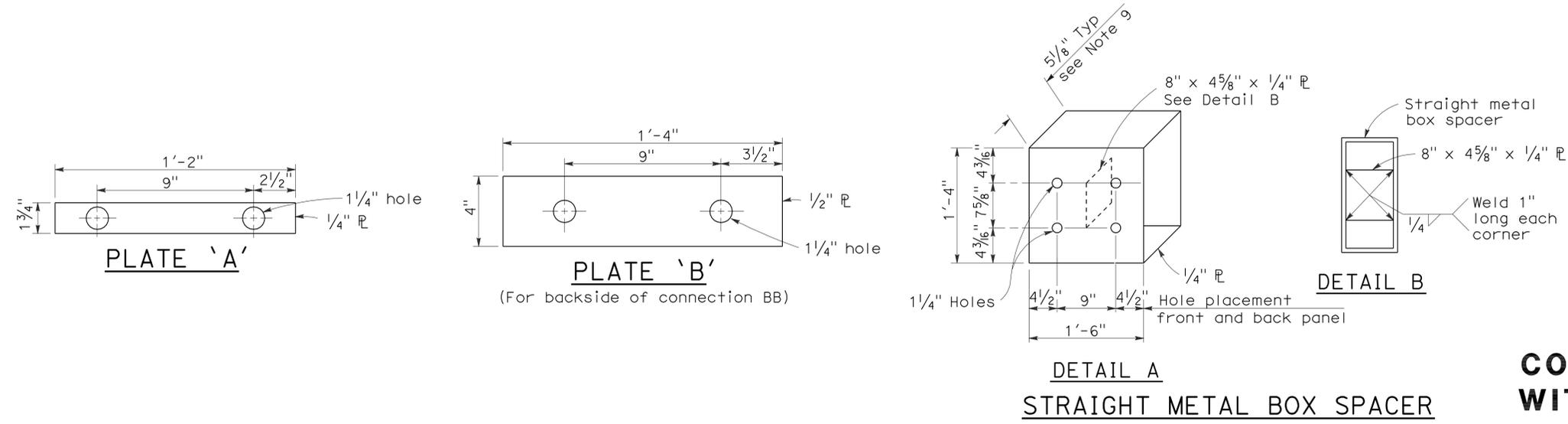
To accompany plans dated 4-30-12



GUARD RAILING CONNECTION TO BRIDGE RAILING WITHOUT SIDEWALK

NOTES:

1. See Revised Standard Plan RSP A77J1 for additional connection details to bridges without sidewalks.
2. Additional details of posts, blocks and hardware are shown on Standard Plan A77B1, A77C1 and A77C2.
3. Direction of adjacent traffic indicated by →.
4. For additional details of Transition Railing (Type WB), see Standard Plan A77J4. Transition Railing (Type WB) transitions the 12 gage w-beam standard railing section of guard railing to a heavier gage nested thrie beam railing section which is connected to the concrete bridge railing.
5. For typical use of Connection Detail AA, see Layout Types 12A and 12B on Revised Standard Plan RSP A77F1, Layout Types 12C and 12D on Standard Plan A77F2, and Layout Type 12E on Revised Standard Plan RSP A77F3.
6. For typical use of Connection Detail CC, see Layout Types 12AA and 12BB on Standard Plan A77F4 and Layout Type 12CC on Standard Plan A77F5.
7. Where the height of the bridge railing exceeds the height of the thrie beam railing by more than 1" at Connection Detail AA and connection Detail CC, taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam railing.
8. For details of End Cap (Type TC), see Standard Plans A77J4.
9. See Standard Plans A77J4 for additional details regarding depth dimension for straight metal box spacer.



**DETAIL A
STRAIGHT METAL BOX SPACER**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**METAL BEAM GUARD RAILING
CONNECTIONS TO BRIDGE RAILINGS
WITHOUT SIDEWALKS DETAILS No.2**

NO SCALE
RSP A77J2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77J2
DATED MAY 1, 2006 - PAGE 73 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77J2

2006 REVISED STANDARD PLAN RSP A77J2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	83	116

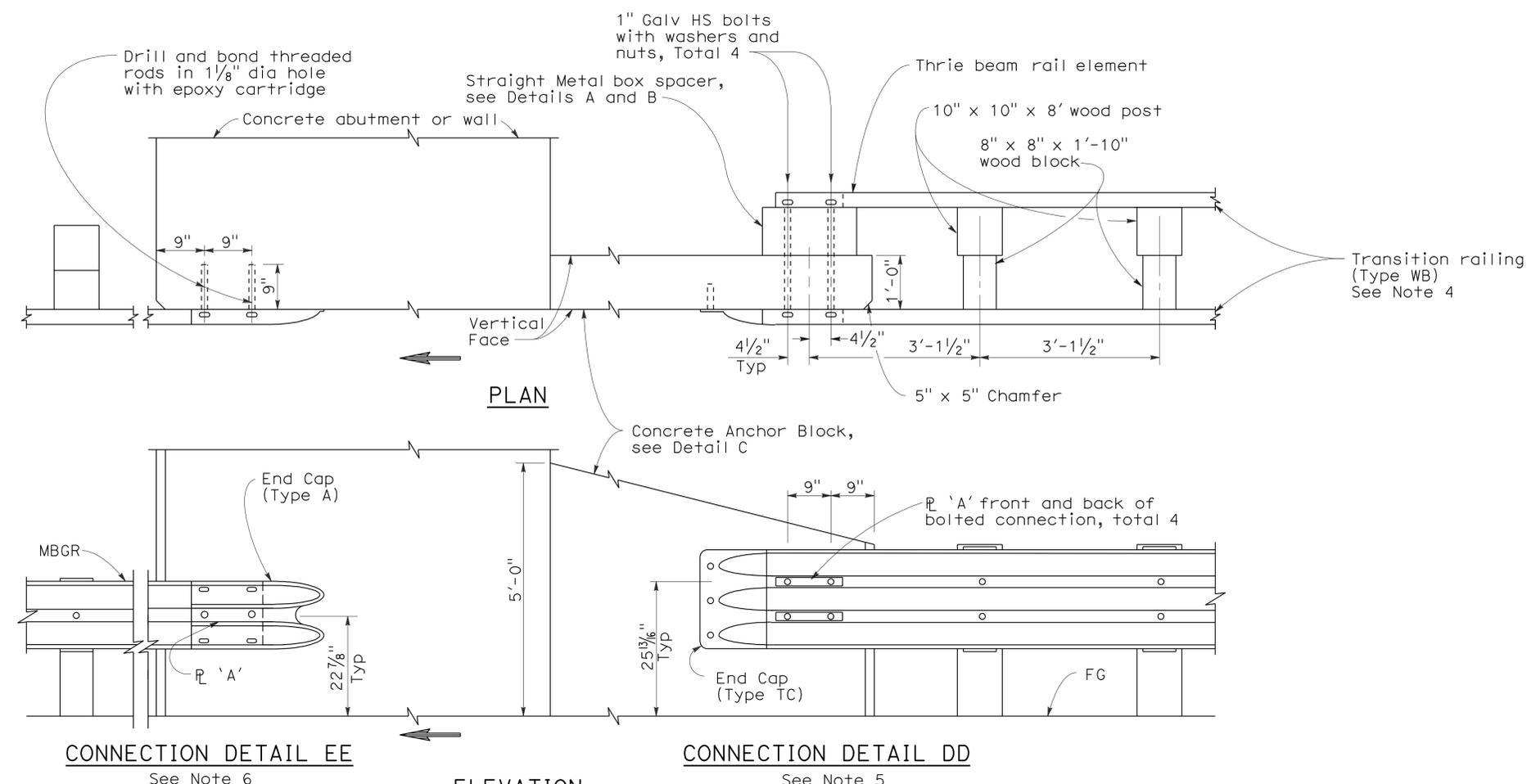
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 4-30-12



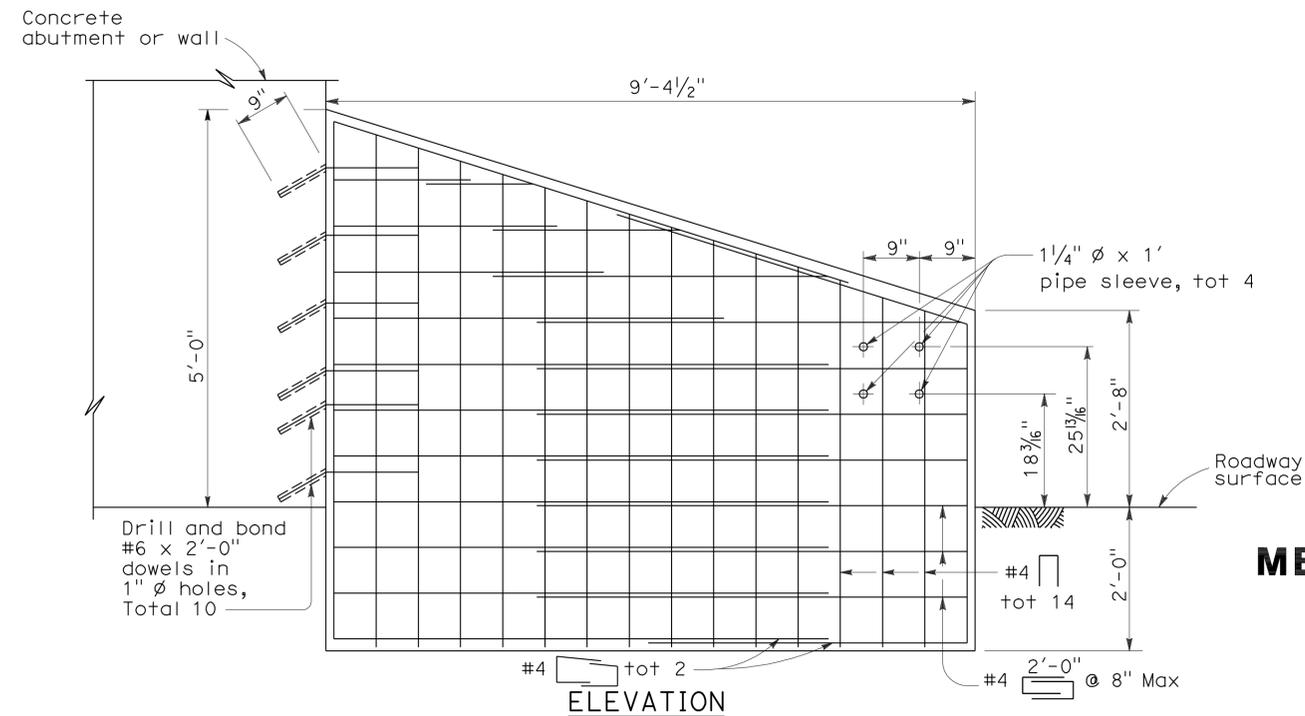
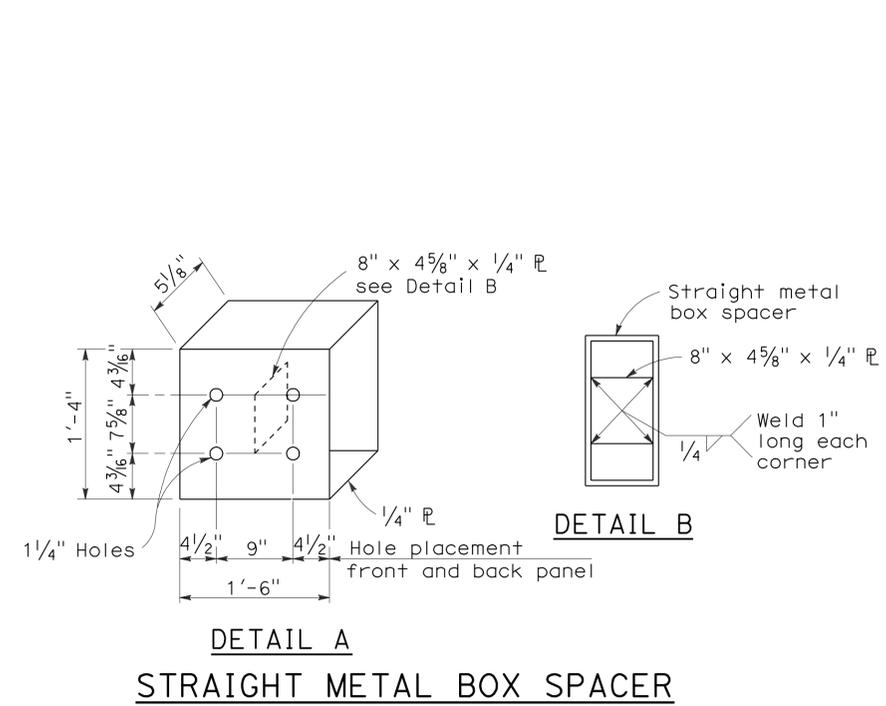
NOTES:

1. These connection details apply to abutments and walls.
2. Additional details of posts, blocks and hardware are shown on Standard Plans A77B1, A77C1 and A77C2.
3. Direction of adjacent traffic indicated by →.
4. For additional details of Transition Railing (Type WB), see Standard Plan A77J4 Transition Railing (Type WB) transitions the 12 gage w-beam standard railing section of guard railing to a heavier gage nested thrie beam railing section which is connected to the concrete anchor block.
5. For typical use of Connection Details DD, See Layout Types 12A and 12B on Standard Plan A77F1 and Layout Types 12C and 12D on Standard Plan A77F2.
6. For typical use of Connection Detail EE, see Layout Type 12D on Standard Plan A77F2 and Layout Type 12DD on Standard Plan A77F5.

CONNECTION DETAIL EE See Note 6

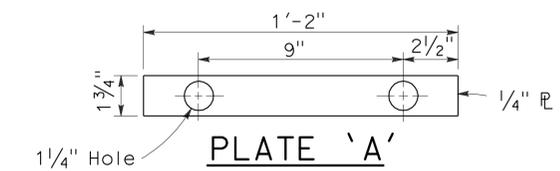
CONNECTION DETAIL DD See Note 5

GUARD RAILING CONNECTION TO ABUTMENT OR WALL



ANCHOR BLOCK FOR TRANSITION RAILING CONNECTION

DETAIL C



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING CONNECTIONS TO ABUTMENTS AND WALLS

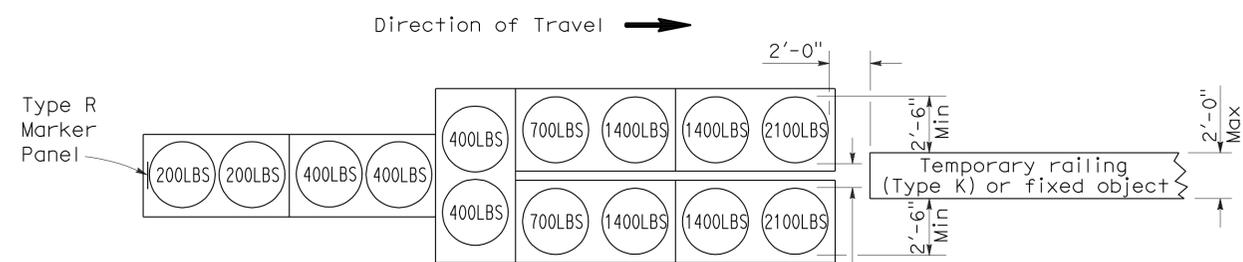
NO SCALE

RSP A77J3 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77J3 DATED MAY 1, 2006 - PAGE 74 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77J3

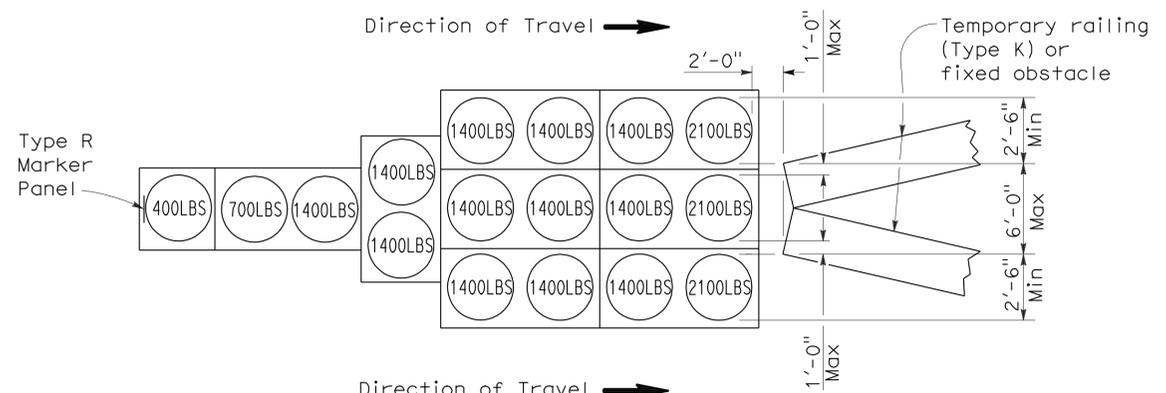
2006 REVISED STANDARD PLAN RSP A77J3

To accompany plans dated 4-30-12



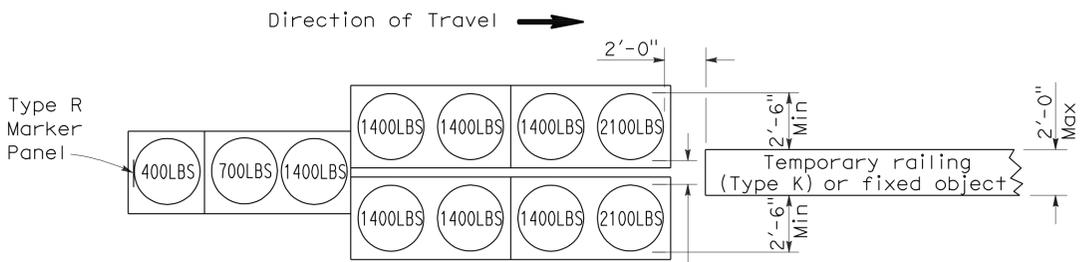
ARRAY 'TU14'

Approach speed 45 mph or more



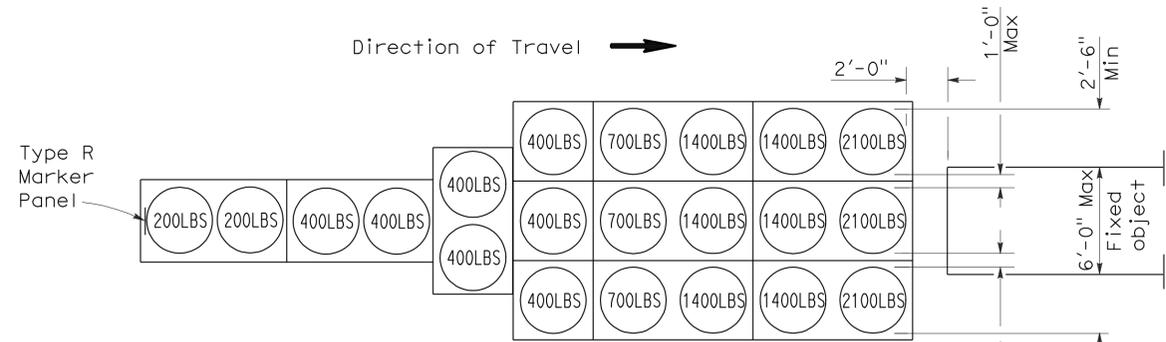
ARRAY 'TU17'

Approach speed less than 45 mph



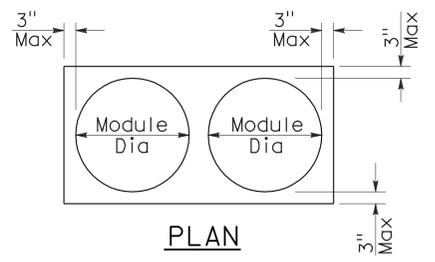
ARRAY 'TU11'

Approach speed less than 45 mph

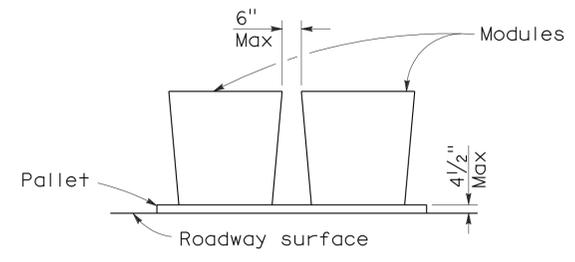


ARRAY 'TU21'

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

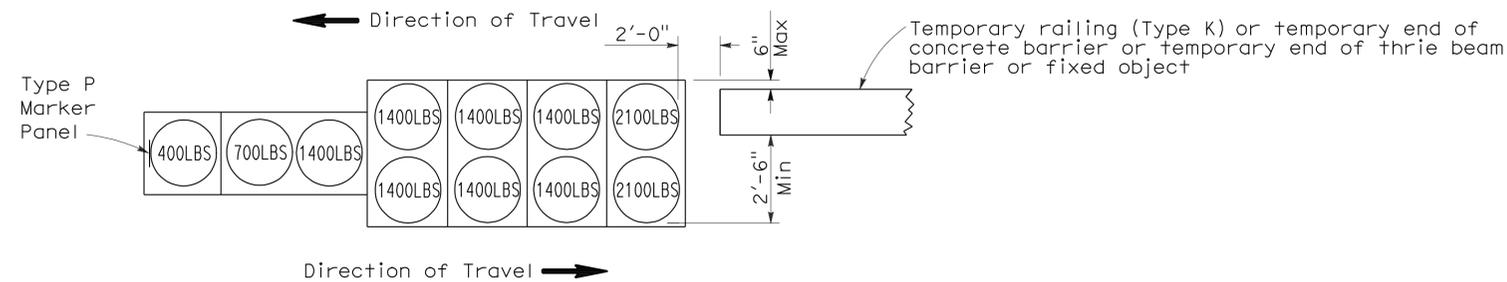
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	86	116

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

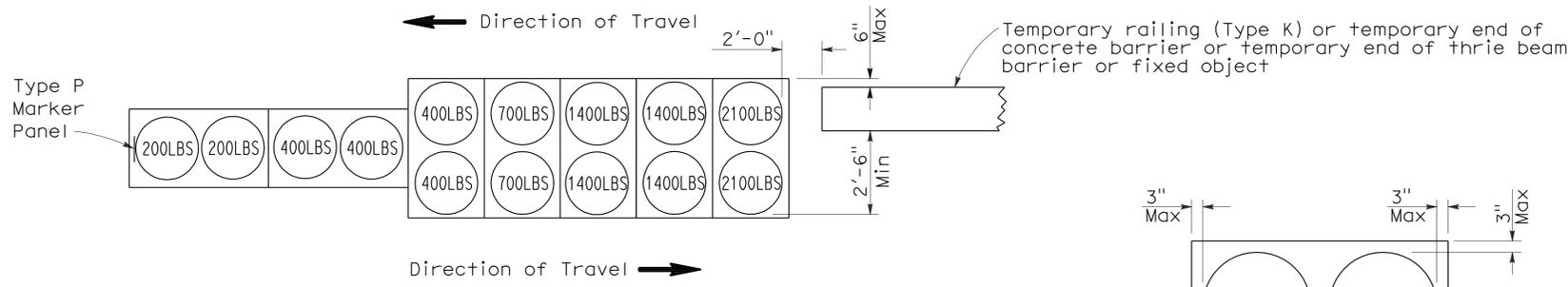
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 4-30-12



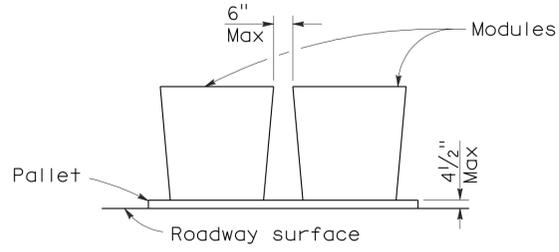
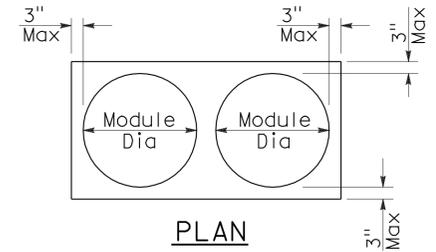
ARRAY 'TB11'

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

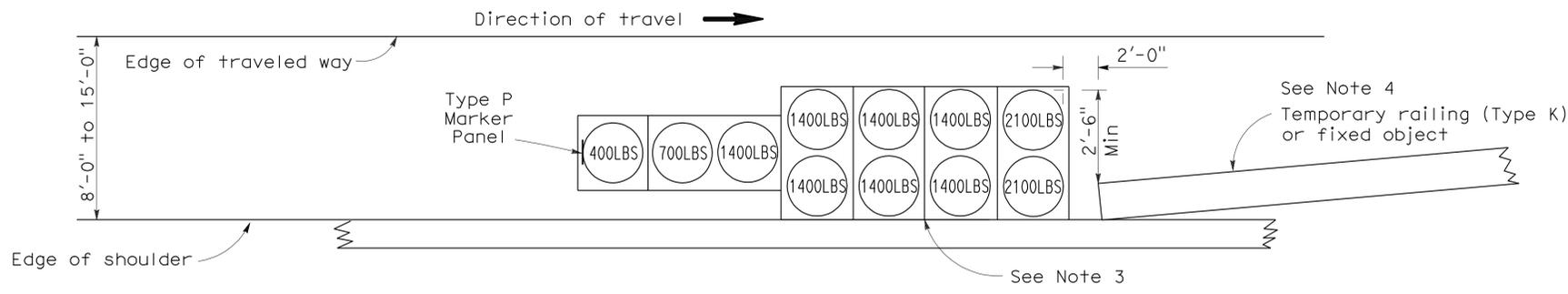
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	87	116

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

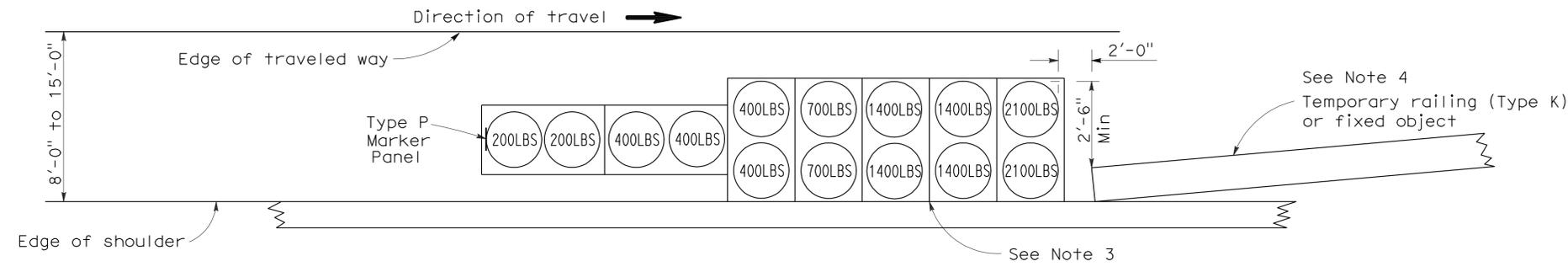
June 6, 2008
PLANS APPROVAL DATE

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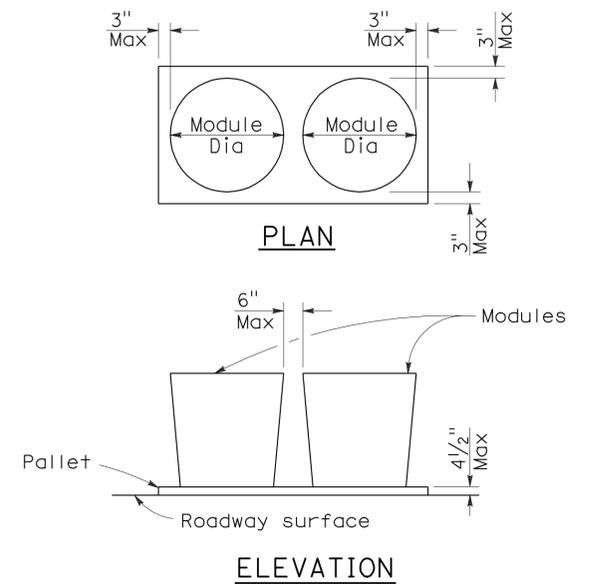
To accompany plans dated 4-30-12



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



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



CRASH CUSHION PALLET DETAIL
See Note 11

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.

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

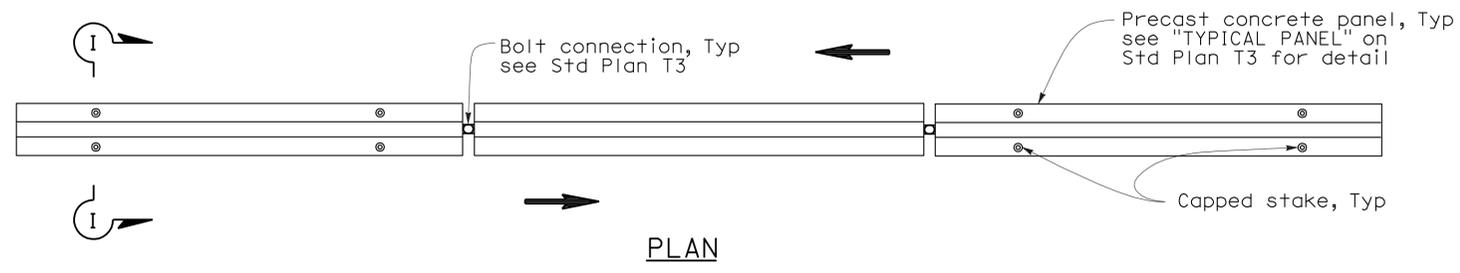
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	88	116

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

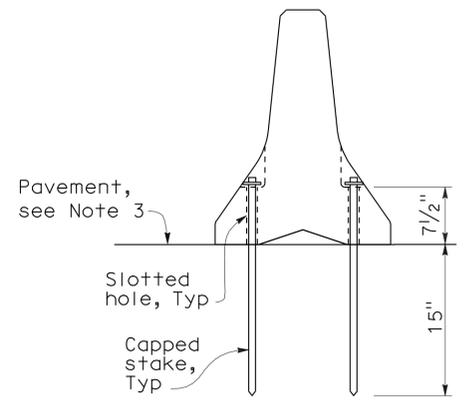
May 20, 2011
PLANS APPROVAL DATE

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To accompany plans dated 4-30-12

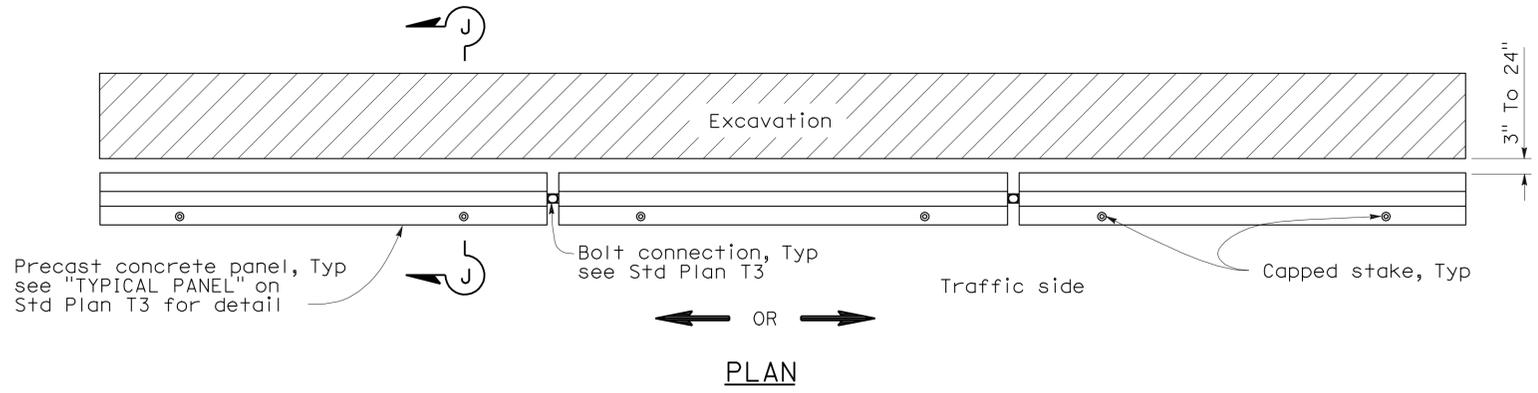


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

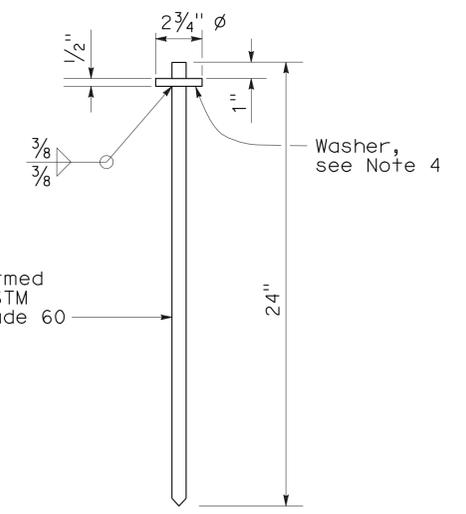
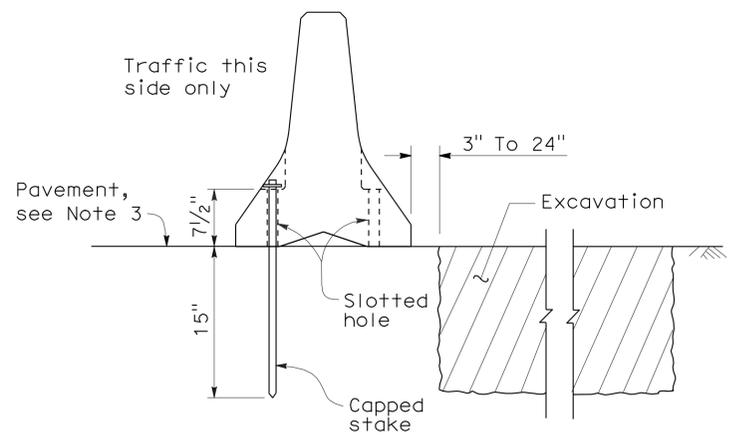


NOTES:

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



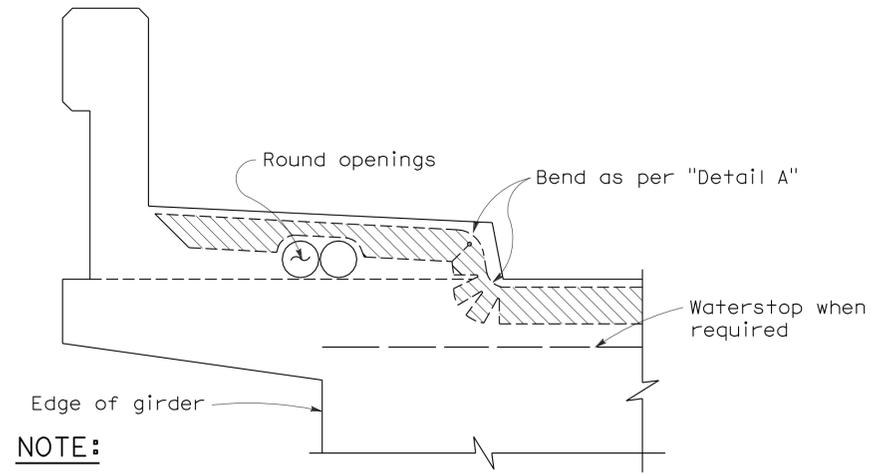
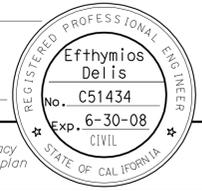
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY RAILING
(TYPE K)**

NO SCALE

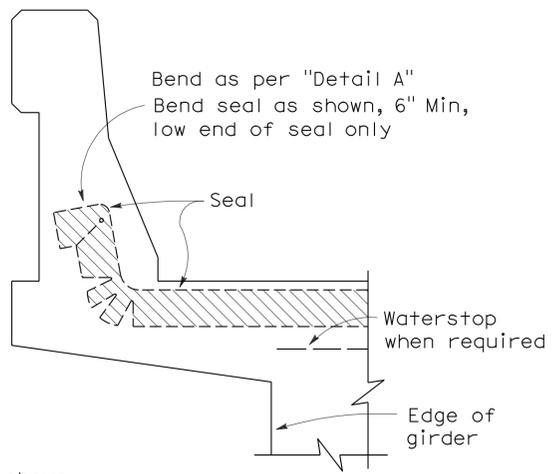
NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T3A

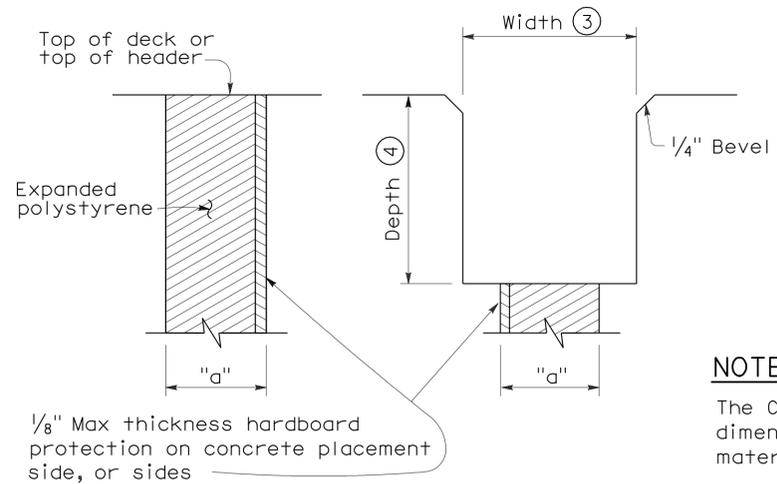


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



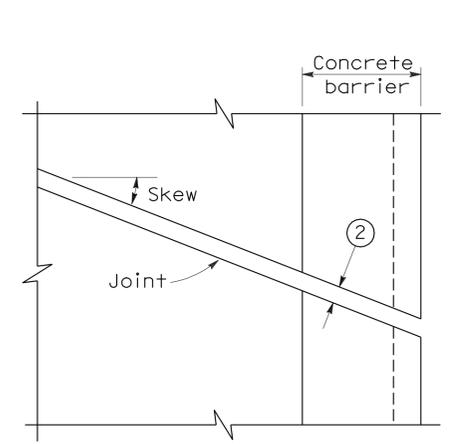
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

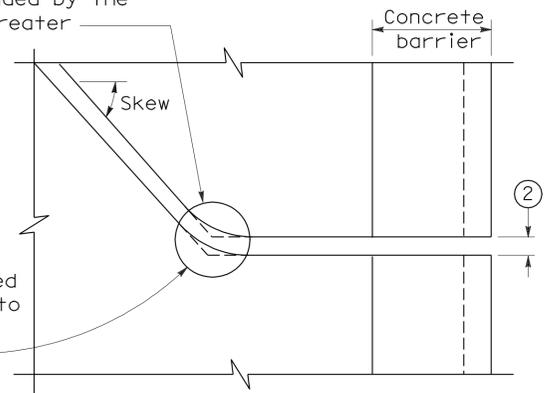
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



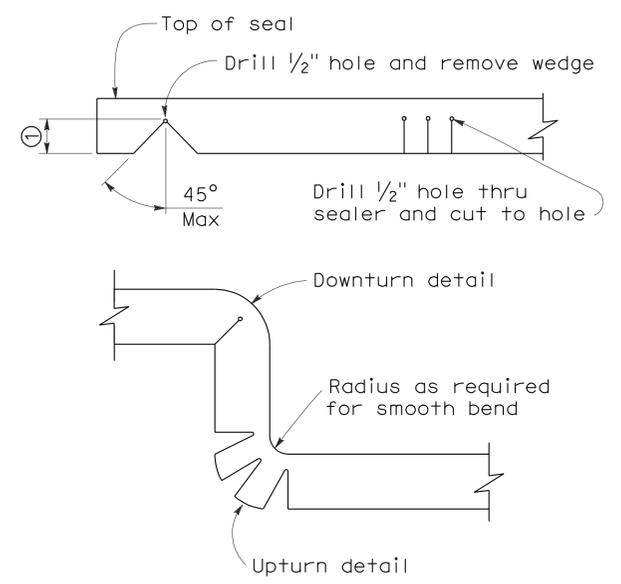
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ 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.



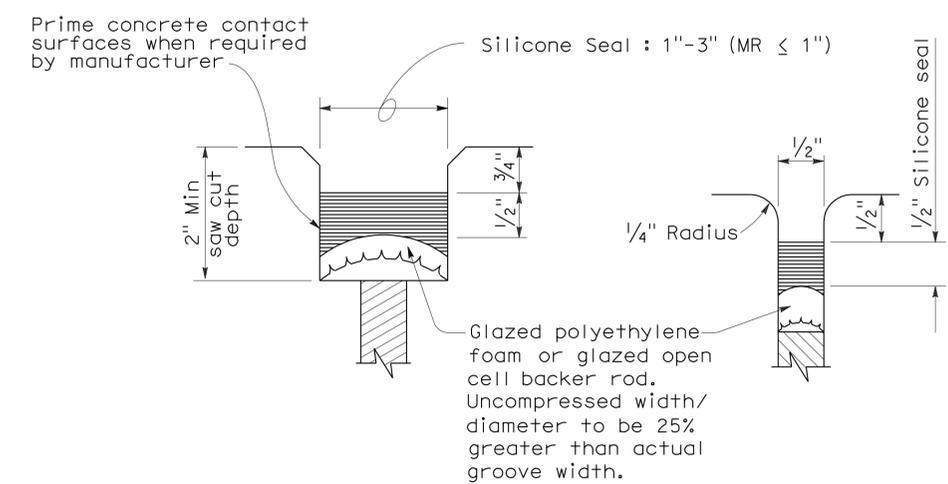
DETAIL A

- 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 (W₂) 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

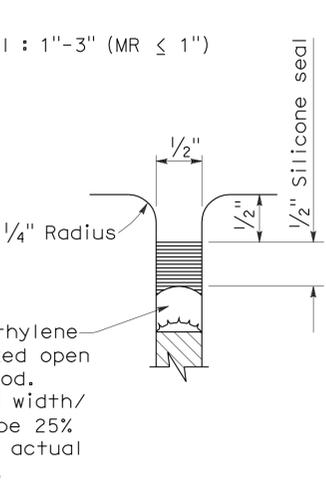
Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except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

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



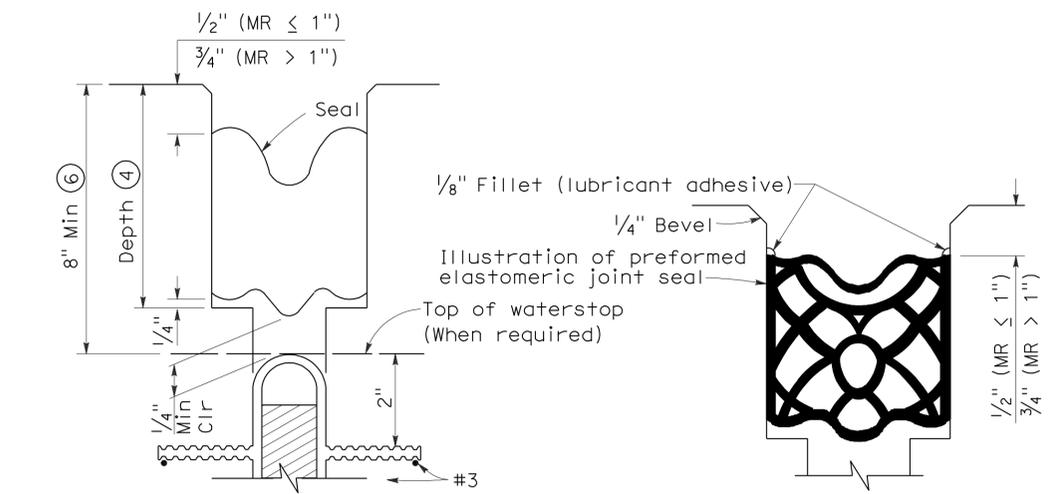
TYPE A SEAL

Movement rating : Silicone = 1" Max



TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

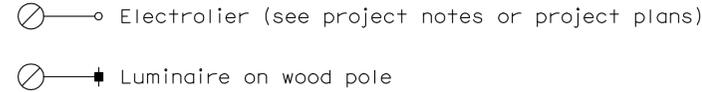
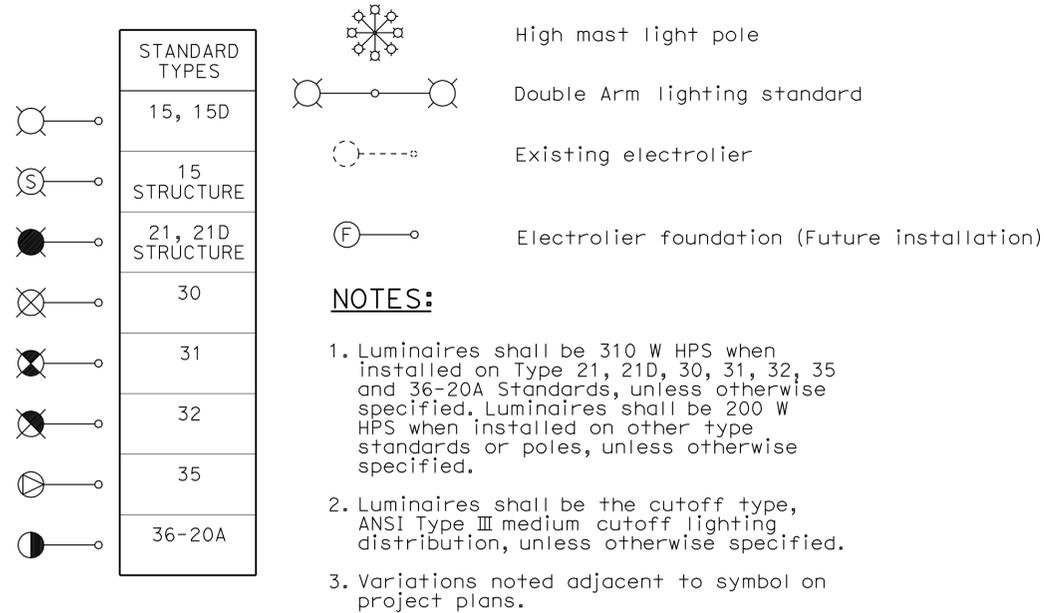
Movement Rating ≤ 2"

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.

REVISED STANDARD PLAN RSP B6-21

2006 REVISED STANDARD PLAN RSP B6-21

ELECTROLIERS



STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	
MAS-4C	mas-4C	
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52, 94,805	Var	90	116

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

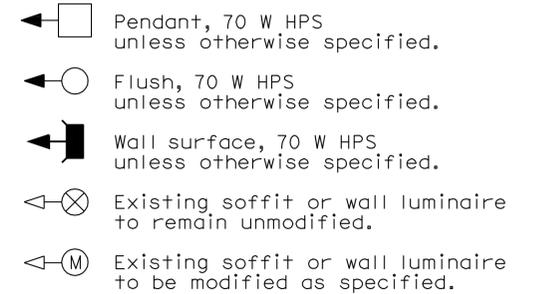
October 5, 2007
PLANS APPROVAL DATE

Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
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.

To accompany plans dated 4-30-12

SOFFIT AND WALL MOUNTED LUMINAIRES



NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	91	116

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 4-30-12

CONDUIT

PROPOSED	EXISTING	
		Lighting Conduit, unless otherwise indicated or noted
		Traffic signal conduit
		Communication conduit
		Telephone conduit
		Fire alarm conduit
		Fiber optic conduit
		Conduit termination
		Conduit riser in/on structure or service pole

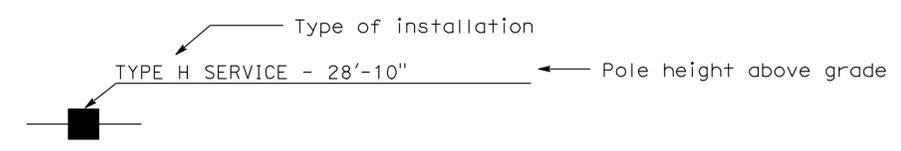
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" indicates all non-arrow sections louvered "LG" indicates louvered green section only "PV" indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SERVICE EQUIPMENT

PROPOSED	EXISTING	
		Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.
- Signal indication shall be LED.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**
 NO SCALE

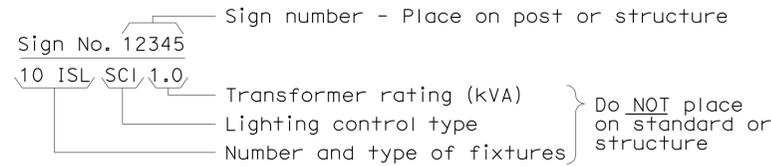
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

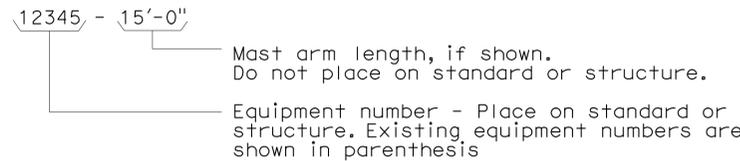
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

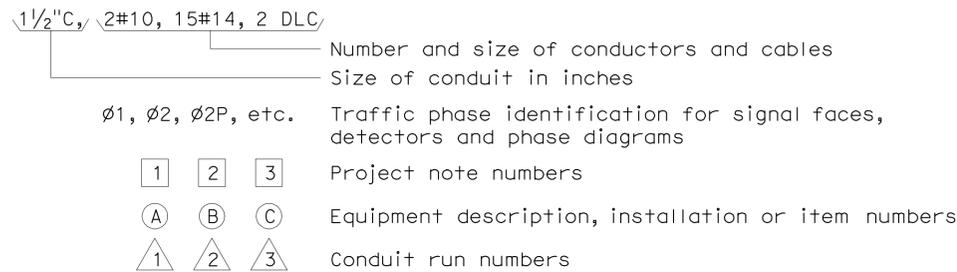
ILLUMINATED SIGN IDENTIFICATION NUMBER:



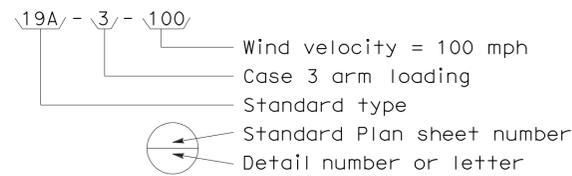
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



CONDUIT AND CONDUCTOR IDENTIFICATION:



SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
CMS	cms	Changeable message sign
		Closed circuit television camera
EMS	ems	Highway advisory radio pole and antenna
		Extinguishable message sign
M V	m v	Detection device M = Microwave sensor V = Video image sensor

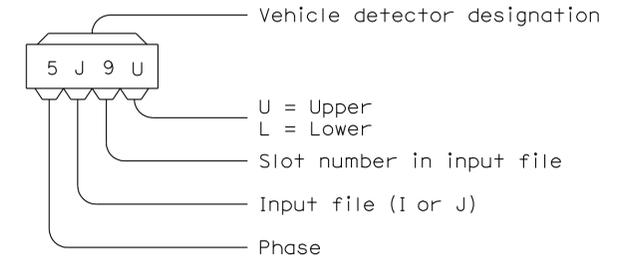
WIRING DIAGRAM LEGEND

P	Pole	----	External conductor
CB	Circuit breaker	—	Conductor or bus
A	Ampere	—●—	Tie point
V	Volt	—/—	Contactor coil
M	Metered	— —	Contactor, Contact NO
UM	Unmetered	— —	Terminal blocks
NB	Neutral bus	— —	Contactor, Contact NC
GB	Ground bus	— —	Enclosure bond
G	Equipment grounding conductor	— —	Grounding electrode
N	Grounded conductor (Neutral)	— —	Circuit breaker
		Ⓜ	Receptacle

PULL BOXES

PROPOSED	EXISTING	
		Pull box-No. 5 unless otherwise indicated or noted.
		Pull box-Additional designations or descriptions
3		(C) = Communications pull box
5		(E) = Pull box with extension
6		(S) = Sprinkler control pull box
7		(21) = Anchor bolts and conduit for future installation of Type 21 Standard
8		(T) = Traffic pull box
9		
9A		

VEHICLE DETECTORS



PROPOSED	EXISTING	
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
		Detector handhole
		Microwave or video detection zone

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(SYMBOLS AND ABBREVIATIONS)
 NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
 DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	93	116

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-12
 ELECTRICAL
 STATE OF CALIFORNIA

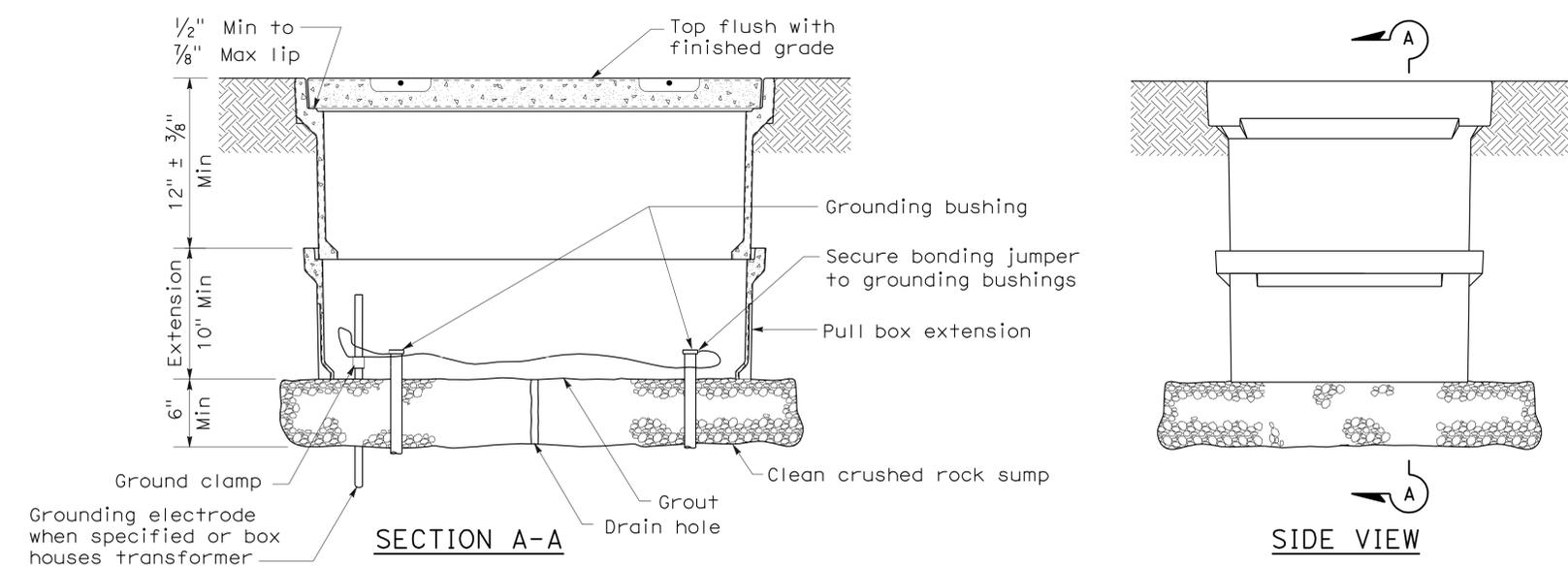
January 20, 2012
 PLANS APPROVAL DATE

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To accompany plans dated 4-30-12

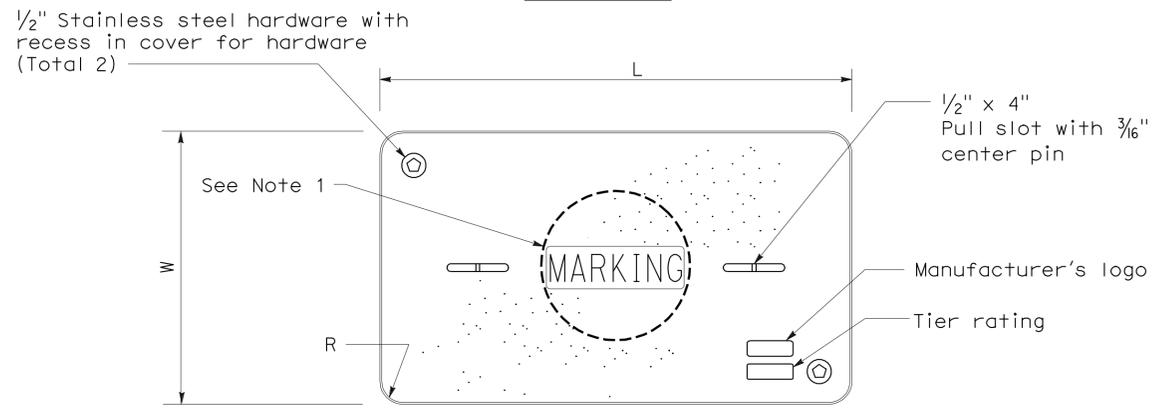
NOTES ON PULL BOXES:

1. Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
 - A) No. 3/2 pull box.
 - 1) "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - 2) "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - B) No. 5, 6, 9 or 9A pull box.
 - 1) "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - 2) "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - 3) "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
 - 4) "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - 5) "RAMP METER" - Ramp meter circuits.
 - 6) "COUNT STATION" - Count or speed monitor circuits.
 - 7) "COMMUNICATIONS" - Communication circuits.
 - 8) "TOS COMMUNICATIONS" - TOS communication line.
 - 9) "TOS POWER" - TOS power.
 - 10) "TDC POWER" - Telephone demarcation cabinet power.
 - 11) "CCTV" - Closed circuit television circuits.
 - 12) "TMS" - Traffic monitoring station circuits.
 - 13) "CMS" - Changeable message sign circuits.
 - 14) "HAR" - Highway advisory radio circuits.
2. The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions (L and W) plus 1/8" or greater.
3. Covers and boxes must be interchangeable with California Standard. When interchanged with a standard, the top surfaces must be flush within 1/8". Top outside radius of covers and pull boxes must have a 1/8" radius.
4. Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.

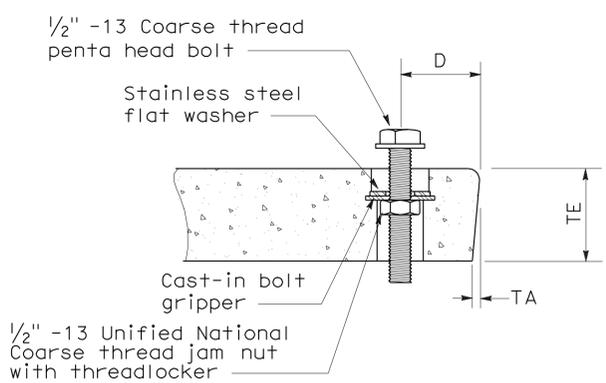


INSTALLATION DETAILS

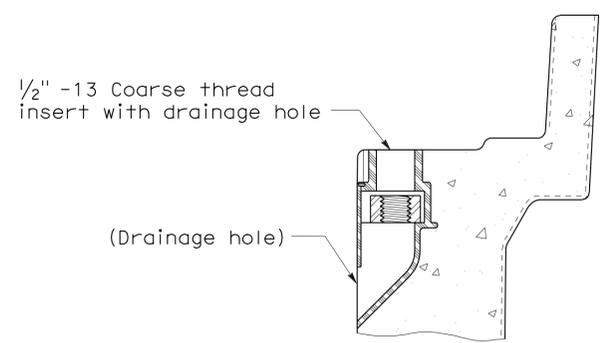
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
(Or similar)



TYPICAL THREADED INSERT
(Or similar)

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	Minimum Depth Box	Minimum Depth Extension	Maximum Weight	L	W	R	TE	TA	D	Maximum Weight
No. 3/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(PULL BOX)
 NO SCALE

NSP ES-8A DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP ES-8A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	94	116

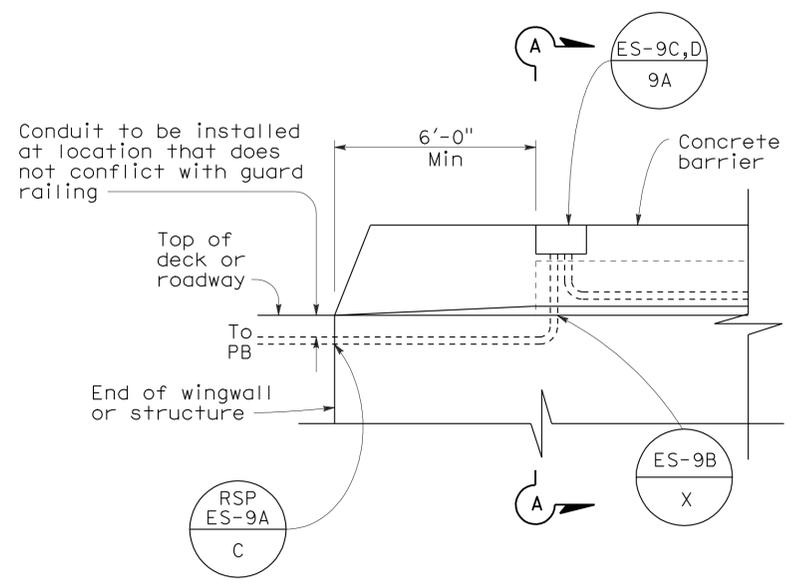
Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE

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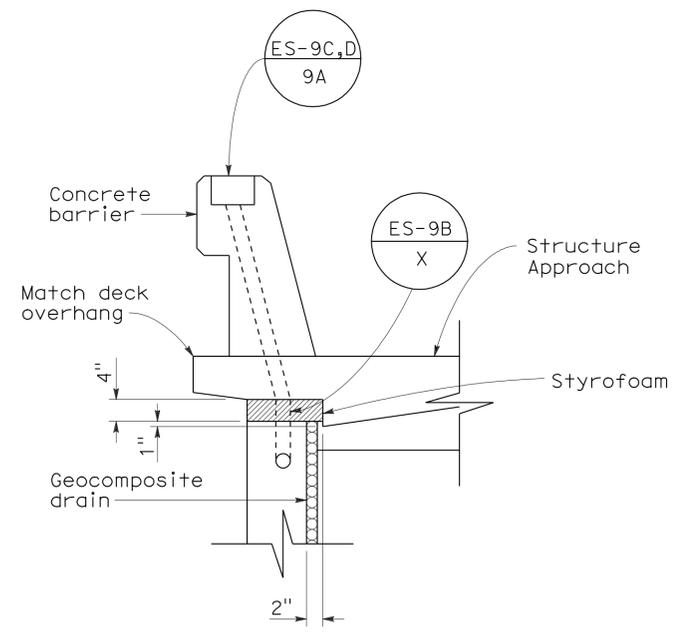
REGISTERED PROFESSIONAL ENGINEER
 Jeffery G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 4-30-12

2006 REVISED STANDARD PLAN RSP ES-9A

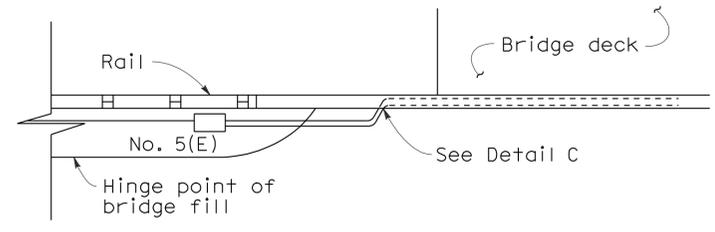


SIDEVIEW

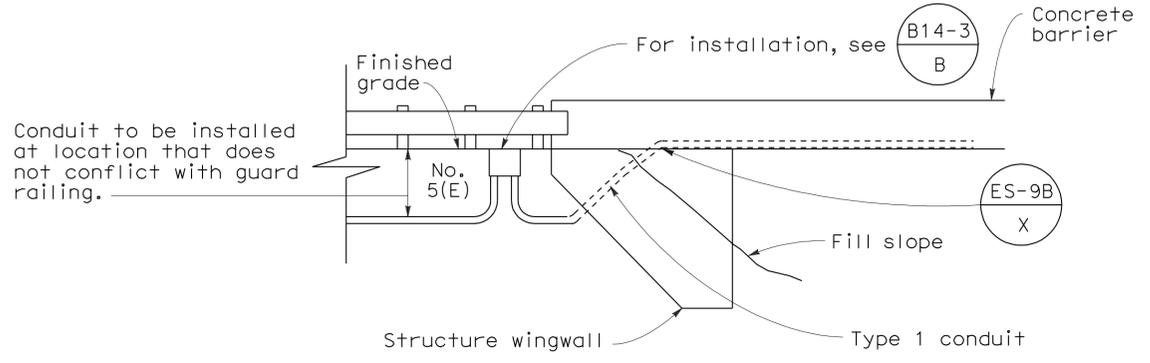


SECTION A-A

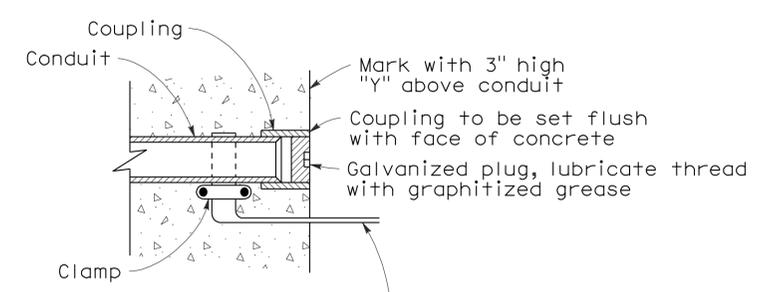
**DETAIL A
CONDUIT TERMINATION**



TOP VIEW



**SIDE VIEW
DETAIL I
CONDUIT TERMINATION**



**DETAIL C
CONDUIT TERMINATION**

Copper bonding strap install only at structure construction joint, extend at least 6" from face of concrete

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(ELECTRICAL DETAILS
STRUCTURE INSTALLATIONS)**

NO SCALE

RSP ES-9A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-9A DATED MAY 1, 2006 - PAGE 454 OF THE STANDARD PLANS BOOK DATED MAY 2006.

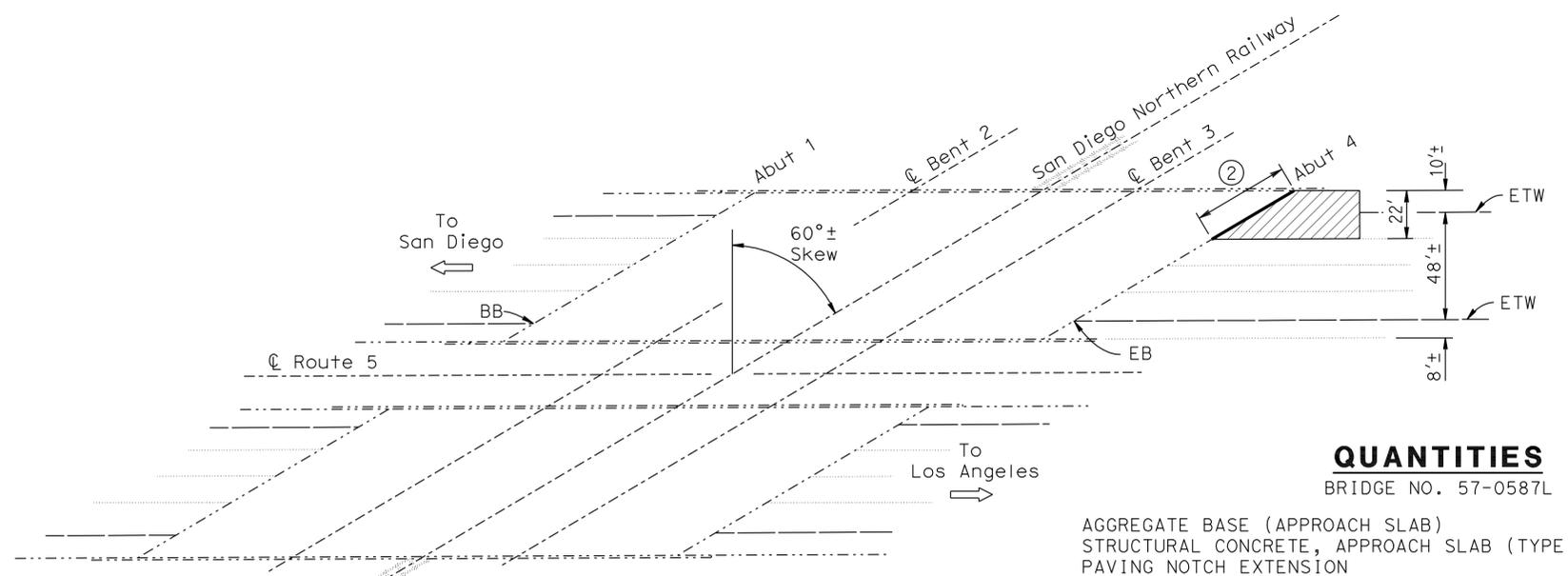
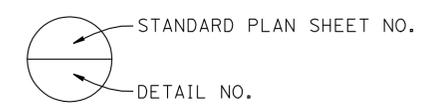
REVISED STANDARD PLAN RSP ES-9A

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	JOINT SEAL DETAILS NO. 1
18	JOINT SEAL DETAILS NO. 2
19	JOINT SEAL DETAILS NO. 3
20	DECK OVERLAY DETAILS
21	STRUCTURE APPROACH TYPE R(30D)
22	STRUCTURE APPROACH TYPE R(30S)

STANDARD PLANS DATED MAY 2006

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")



AGRA OH
 Bridge No. 57-0587L Rte 5 Post Mile 63.78
 1" = 40'

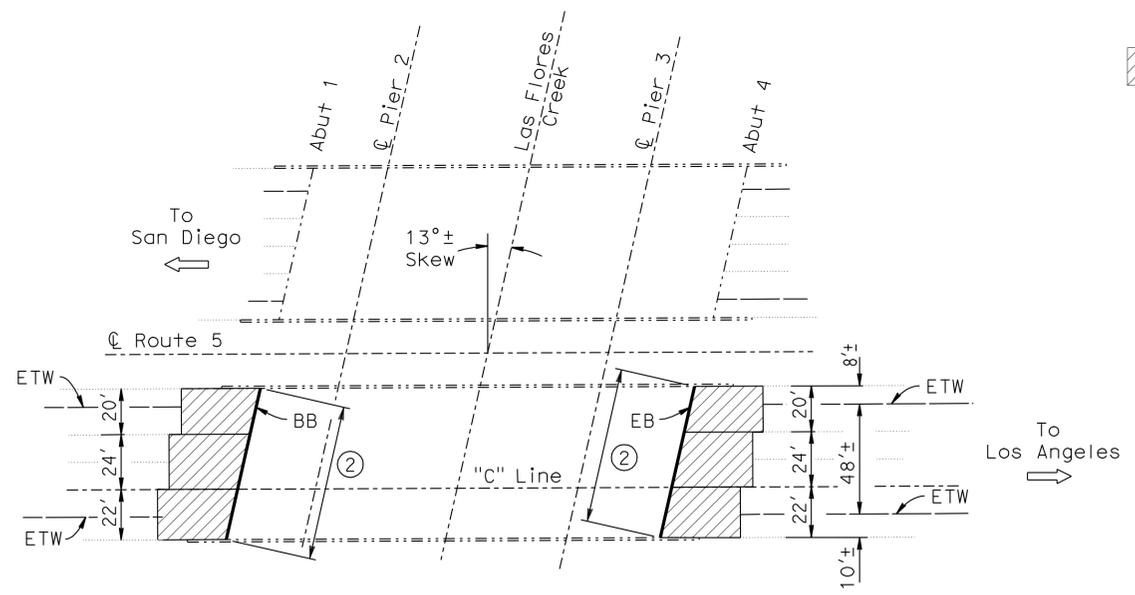
QUANTITIES

BRIDGE NO. 57-0587L

AGGREGATE BASE (APPROACH SLAB)	8	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	48	CY
PAVING NOTCH EXTENSION	32	CF
CORE CONCRETE (2")	2	LF
JOINT SEAL (MR 1/2")	44	LF

LEGEND:

- Indicates Existing Structures
- Indicates location of existing Joint Seal removal, clean Expansion Joint, and placement of new Joint Seal.
- Indicates Limits of Approach Slab Type R(30D)
- ① Existing Approach Slab
- ② Limits of Paving Notch Extension
- X Structure Location, see Joint Seal Table on "JOINT SEAL DETAILS" sheet.

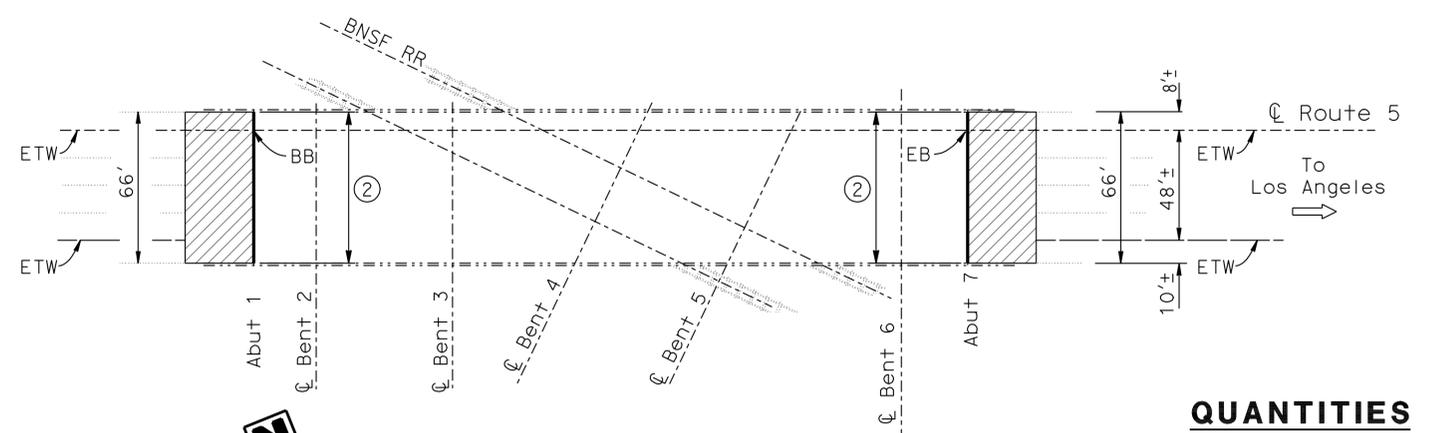


LAS FLORES CREEK
 Bridge No. 57-0005R Rte 5 Post Mile 61.43
 1" = 40'

QUANTITIES

BRIDGE NO. 57-0005R

AGGREGATE BASE (APPROACH SLAB)	30	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	183	CY
PAVING NOTCH EXTENSION	103	CF
CORE CONCRETE (2")	12	LF
JOINT SEAL (MR 1/2")	135	LF



STUART OH

Bridge No. 57-0583R Rte 5 Post Mile 56.86
 1" = 40'

QUANTITIES

BRIDGE NO. 57-0583R

AGGREGATE BASE (APPROACH SLAB)	32	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	191	CY
PAVING NOTCH EXTENSION	103	CF
CORE CONCRETE (2")	12	LF
JOINT SEAL (MR 1")	67	LF
JOINT SEAL (MR 1 1/2")	67	LF

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

DESIGN	BY	CHECKED	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DESIGN	D. Azzam	R. Anderson		
DETAILS	R. Kirkland	R. Anderson	LAYOUT	BY D. Azzam
QUANTITIES	D. Azzam	R. Anderson	SPECIFICATIONS	BY T. Nedwick

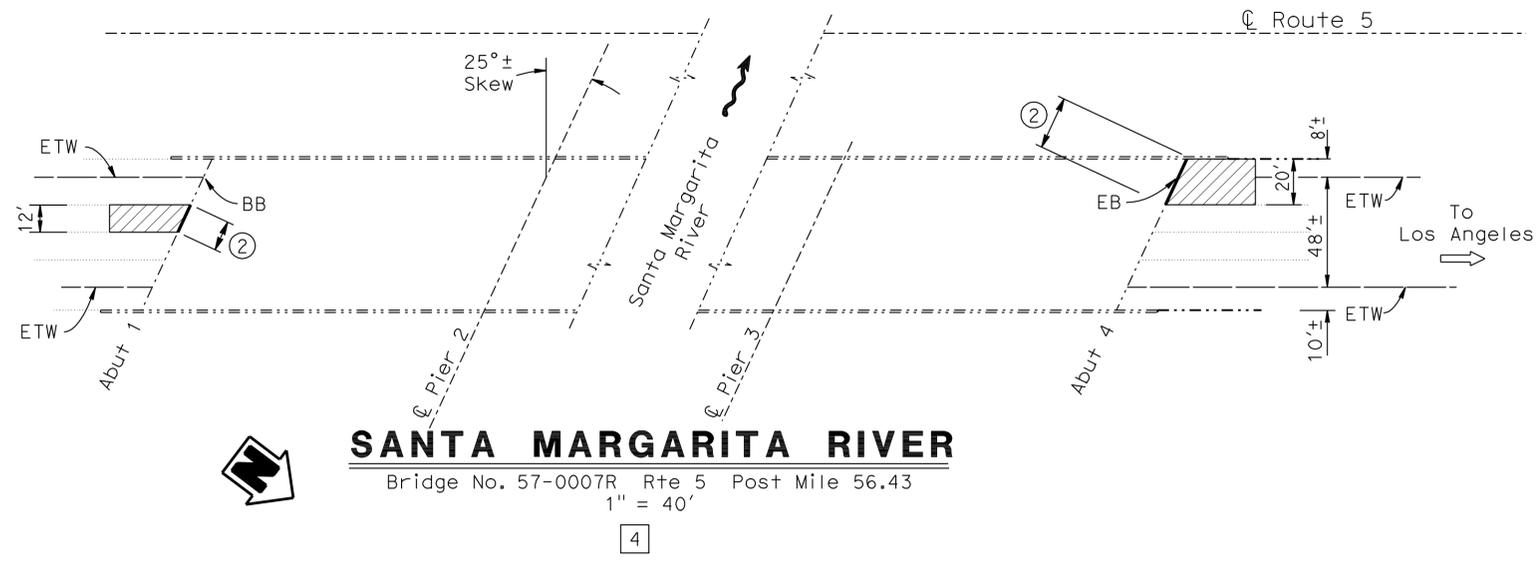
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO. Varies
 POST MILE Varies
APPROACH SLAB REHABILITATION
GENERAL PLAN NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52, 94,805	Var	96	116
RENEE M. ANDERSON REGISTERED CIVIL ENGINEER			9-26-11 DATE		
4-30-12 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.		

QUANTITIES
BRIDGE NO. 57-0713R

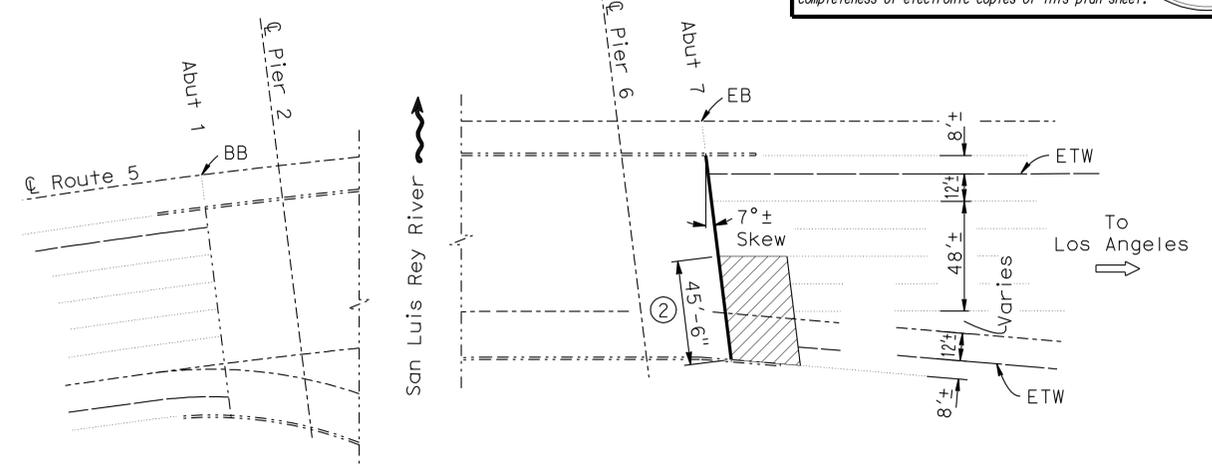
AGGREGATE BASE (APPROACH SLAB)	10	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	61	CY
PAVING NOTCH EXTENSION	35	CF
CLEAN EXPANSION JOINT	44	LF
CORE CONCRETE (2")	5	LF
JOINT SEAL (MR 2")	90	LF



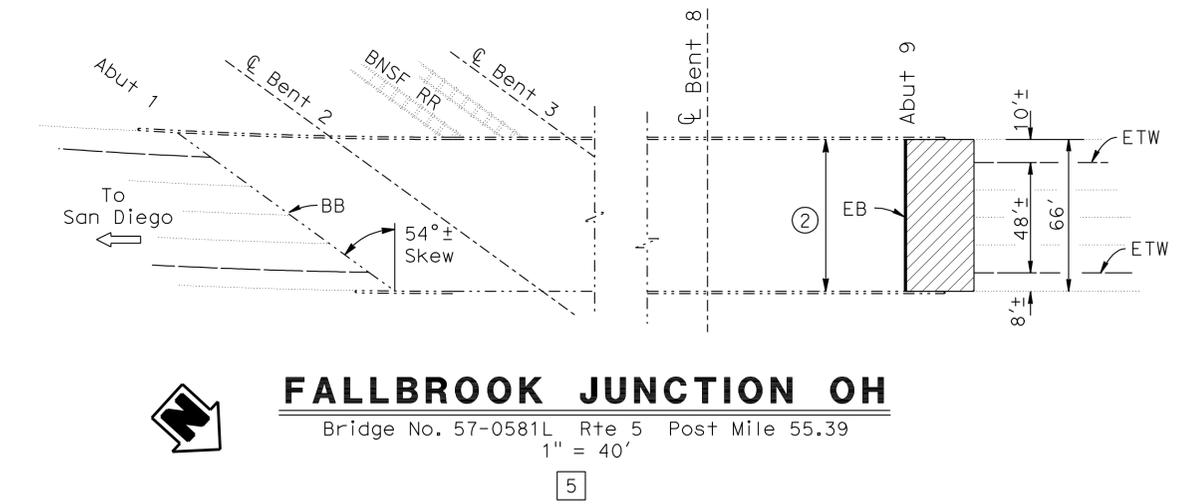
SANTA MARGARITA RIVER
 Bridge No. 57-0007R Rte 5 Post Mile 56.43
 1" = 40'
 4

QUANTITIES
BRIDGE NO. 57-0007R

AGGREGATE BASE (APPROACH SLAB)	8	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	48	CY
PAVING NOTCH EXTENSION	27	CF
CORE CONCRETE (2")	3	LF
JOINT SEAL (MR 1/2")	36	LF



SAN LUIS REY RIVER BRIDGE
 Bridge No. 57-0713R Rte 5 Post Mile 54.04
 1" = 40'
 6

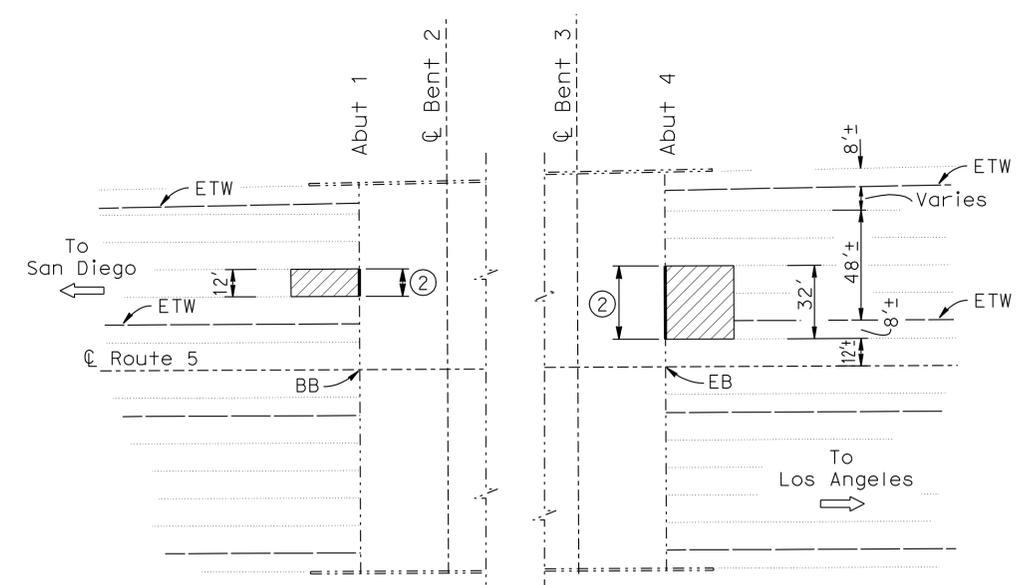


FALLBROOK JUNCTION OH
 Bridge No. 57-0581L Rte 5 Post Mile 55.39
 1" = 40'
 5

QUANTITIES
BRIDGE NO. 57-0581L

AGGREGATE BASE (APPROACH SLAB)	15	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	88	CY
PAVING NOTCH EXTENSION	49	CF
CORE CONCRETE (2")	6	LF
JOINT SEAL (MR 1/2")	67	LF

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



LOMA ALTA CREEK BRIDGE
 Bridge No. 57-0125 Rte 5 Post Mile 52.18
 1" = 40'
 7

QUANTITIES
BRIDGE NO. 57-0125

AGGREGATE BASE (APPROACH SLAB)	10	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	58	CY
PAVING NOTCH EXTENSION	32	CF
CORE CONCRETE (2")	5	LF
JOINT SEAL (MR 1/2")	44	LF

- LEGEND:**
- Indicates Existing Structure
 - Indicates location of existing Joint Seal removal, clean Expansion Joint, and placement of new Joint Seal.
 - ▨ Indicates Limits of Approach Slab Type R(30D)
 - ① Existing Approach Slab
 - ② Limits of Paving Notch Extension
 - X Structure Location, see Joint Seal Table on "JOINT SEAL DETAILS" sheet.

DESIGN	BY R. Anderson	CHECKED D. AZZAM	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY R. Kirkland	CHECKED D. AZZAM	LAYOUT	BY R. Anderson
QUANTITIES	BY R. Anderson	CHECKED D. AZZAM	SPECIFICATIONS	BY T. Nedwick

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

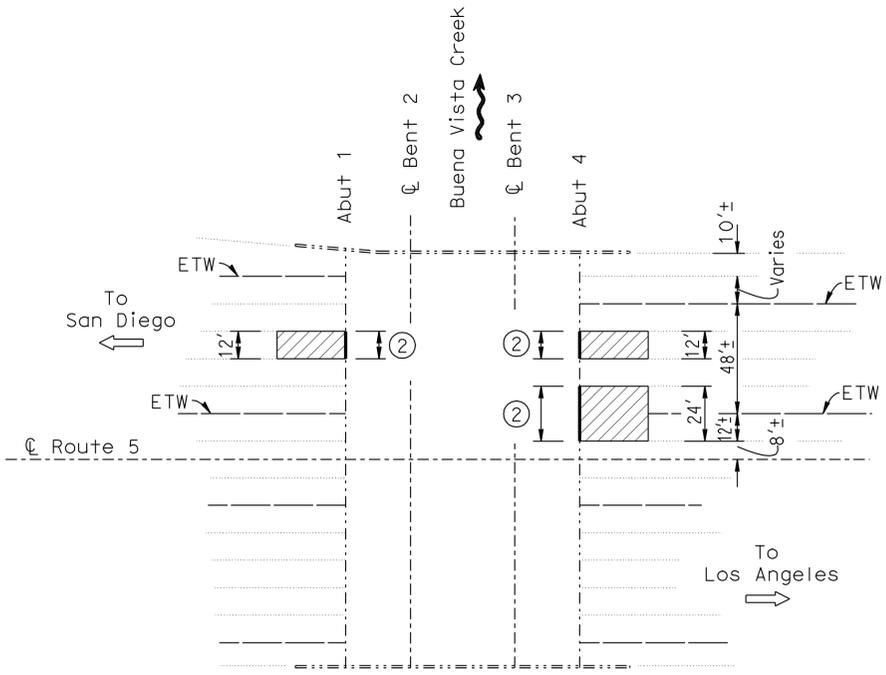
BRIDGE NO.	Varies	APPROACH SLAB REHABILITATION
POST MILE	Varies	
GENERAL PLAN NO. 2		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	97	116

Renee M. Anderson
 REGISTERED CIVIL ENGINEER
 DATE: 9-26-11
 PLANS APPROVAL DATE: 4-30-12

REGISTERED PROFESSIONAL ENGINEER
 RENE E ANDERSON
 No. 61040
 Exp. 12/31/12
 CIVIL
 STATE OF CALIFORNIA

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BUENA VISTA LAGOON

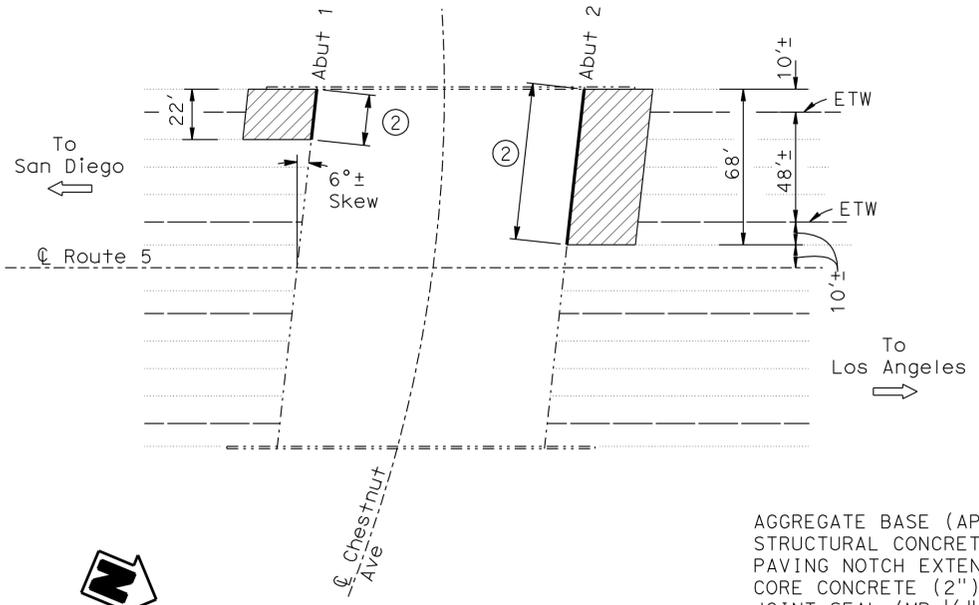
Bridge No. 57-0277 Rte 5 Post Mile 50.94
1" = 40'

QUANTITIES

BRIDGE NO. 57-0277

- AGGREGATE BASE (APPROACH SLAB) 11 CY
- STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 64 CY
- PAVING NOTCH EXTENSION 35 CF
- CORE CONCRETE (2") 6 LF
- JOINT SEAL (MR 1/2") 48 LF

- 11 CY
- 64 CY
- 35 CF
- 6 LF
- 48 LF



CHESTNUT AVENUE UC

Bridge No. 57-0275 Rte 5 Post Mile 49.73
1" = 40'

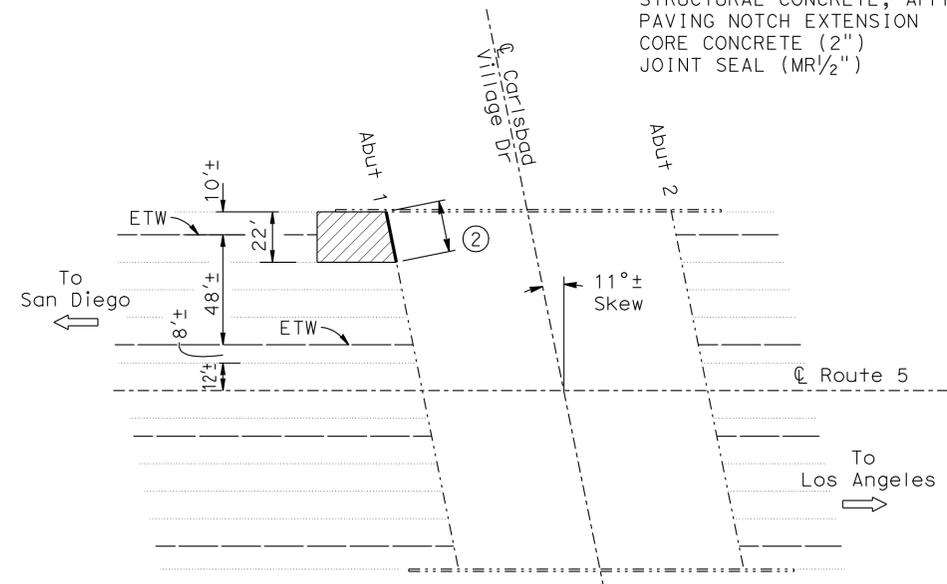
QUANTITIES

BRIDGE NO. 57-0275

- AGGREGATE BASE (APPROACH SLAB) 22 CY
- STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 132 CY
- PAVING NOTCH EXTENSION 68 CF
- CORE CONCRETE (2") 8 LF
- JOINT SEAL (MR 1/2") 91 LF

LEGEND:

- Indicates Existing Structure
- Indicates location of existing Joint Seal removal, clean expansion joint, and placement of new Joint Seal.
- ▨ Indicates Limits of Approach Slab Type R(30D)
- ① Existing Approach Slab
- ② Limits of Paving Notch Extension
- X Structure Location, see Joint Seal Table on "JOINT SEAL DETAILS" sheet.



CARLSBAD VILLAGE DRIVE UC

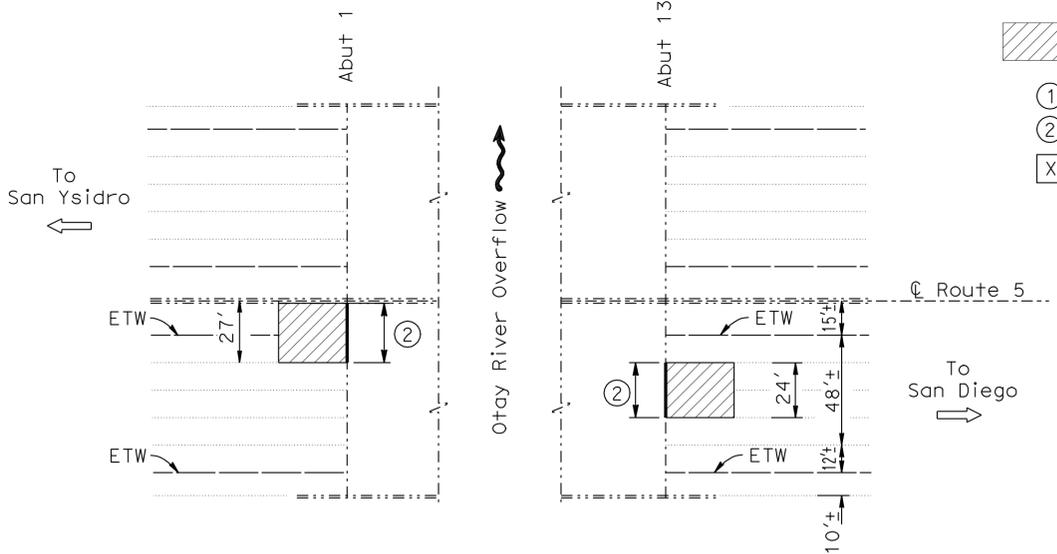
Bridge No. 57-0274 Rte 5 Post Mile 50.11
1" = 40'

QUANTITIES

BRIDGE NO. 57-0274

- AGGREGATE BASE (APPROACH SLAB) 5 CY
- STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 32 CY
- PAVING NOTCH EXTENSION 16 CF
- CORE CONCRETE (2") 2 LF
- JOINT SEAL (MR 1/2") 23 LF

- 5 CY
- 32 CY
- 16 CF
- 2 LF
- 23 LF



OTAY RIVER OVERFLOW OC

Bridge No. 57-0263 Rte 5 Post Mile 5.09
1" = 40'

QUANTITIES

BRIDGE NO. 57-0263

- AGGREGATE BASE (APPROACH SLAB) 11 CY
- STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 68 CY
- PAVING NOTCH EXTENSION 38 CF
- CORE CONCRETE (2") 5 LF
- JOINT SEAL (MR 1/2") 51 LF

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

DESIGN	BY R. Anderson	CHECKED D. Azzam	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY R. Kirkland	CHECKED D. Azzam	LAYOUT	BY R. Anderson
QUANTITIES	BY R. Anderson	CHECKED D. Azzam	SPECIFICATIONS	BY T. Nedwick

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO. Varies
POST MILE Varies

APPROACH SLAB REHABILITATION
GENERAL PLAN NO. 3

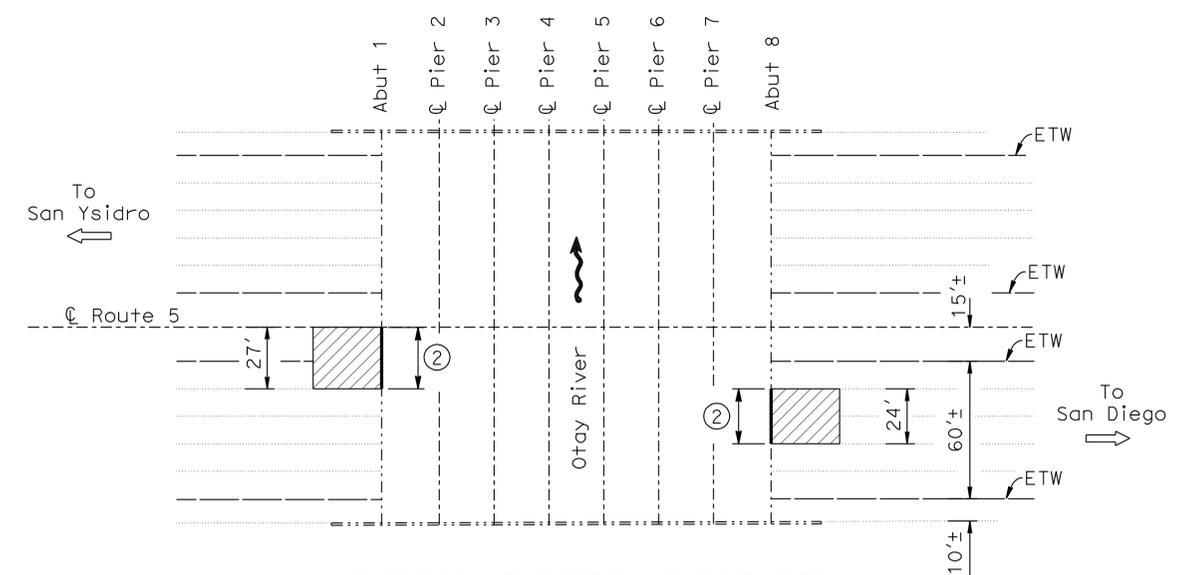
BRIDGE NO. Varies
POST MILE Varies

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	98	116

Renee M. Anderson
 REGISTERED CIVIL ENGINEER
 DATE 9-26-11
 4-30-12
 PLANS APPROVAL DATE

RENE ANDERSON
 No. 61040
 Exp. 12/31/12
 CIVIL
 STATE OF CALIFORNIA

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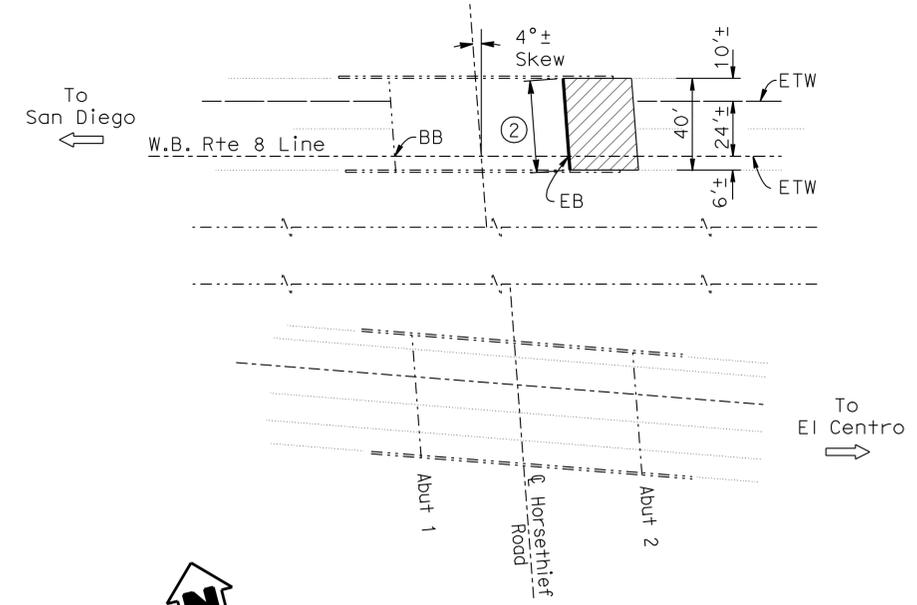


OTAY RIVER BRIDGE

Bridge No. 57-0246 Rte 5 Post Mile 5.01
1" = 40'

QUANTITIES
BRIDGE NO. 57-0246

- AGGREGATE BASE (APPROACH SLAB) 11 CY
- STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 68 CY
- PAVING NOTCH EXTENSION 38 CF
- CORE CONCRETE (2") 5 LF
- JOINT SEAL (MR1/2") 51 LF

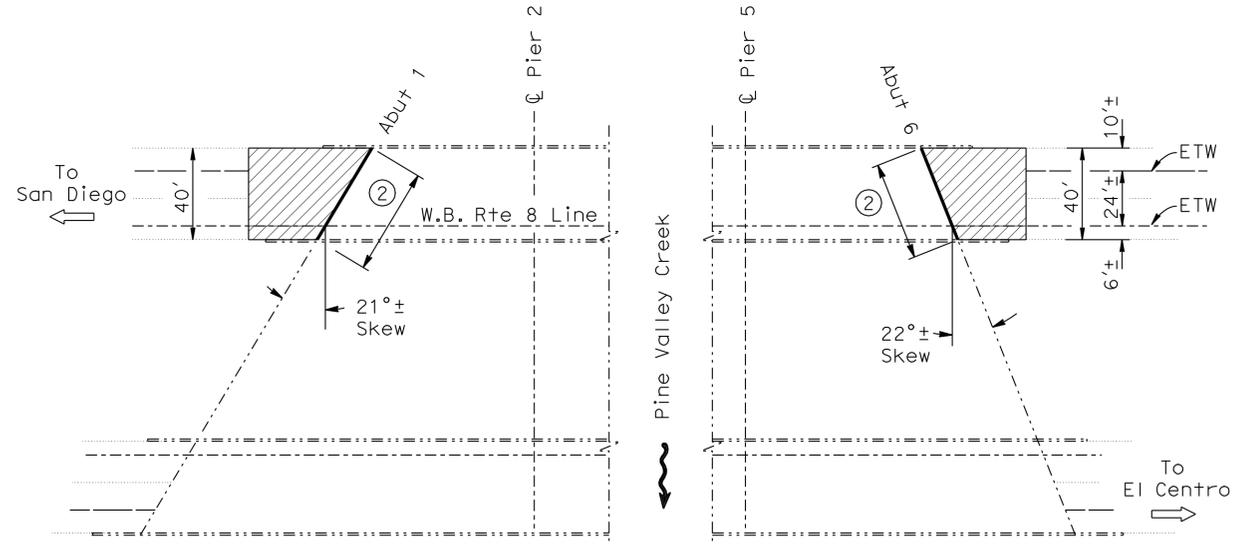


HORSETHIEF ROAD UC

Bridge No. 57-0690L Rte 8 Post Mile 39.62
1" = 40'

QUANTITIES
BRIDGE NO. 57-0690L

- AGGREGATE BASE (APPROACH SLAB) 9 CY
- STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 54 CY
- PAVING NOTCH EXTENSION 30 CF
- CORE CONCRETE (2") 3 LF
- JOINT SEAL (MR1/2") 40 LF

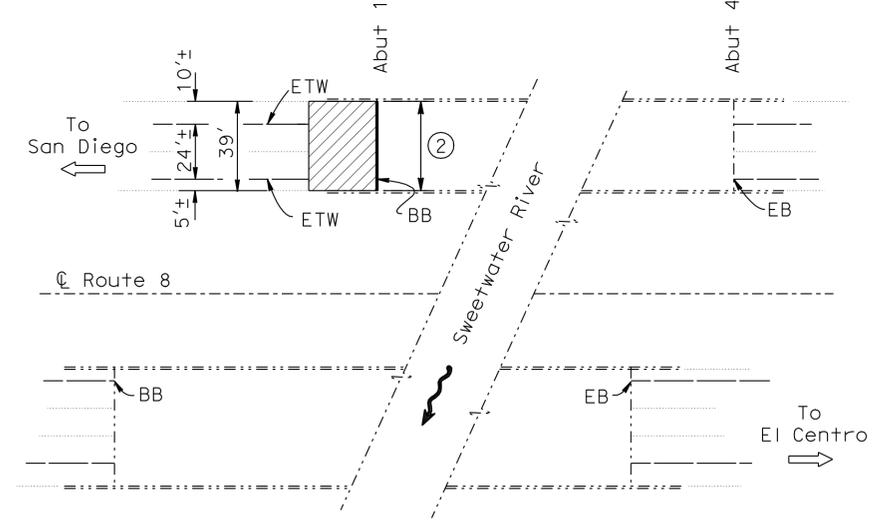


PINE VALLEY CREEK BRIDGE

Bridge No. 57-0692L Rte 8 Post Mile 41.70
1" = 40'

QUANTITIES
BRIDGE NO. 57-0692L

- AGGREGATE BASE (APPROACH SLAB) 23 CY
- STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 140 CY
- PAVING NOTCH EXTENSION 68 CF
- CORE CONCRETE (2") 6 LF
- JOINT SEAL (MR1/2") 90 LF



SWEETWATER RIVER BRIDGE

Bridge No. 57-0688L Rte 8 Post Mile 36.53
1" = 40'

QUANTITIES
BRIDGE NO. 57-0688L

- AGGREGATE BASE (APPROACH SLAB) 9 CY
- STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 52 CY
- PAVING NOTCH EXTENSION 30 CF
- CORE CONCRETE (2") 3 LF
- JOINT SEAL (MR1/2") 40 LF

- LEGEND:**
- Indicates Existing Structure
 - Indicates location of existing Joint Seal removal, clean Expansion Joint, and placement of new Joint Seal.
 - ▨ Indicates Limits of Approach Slab Type R(30D)
 - ① Existing Approach Slab
 - ② Limits of Paving Notch Extension
 - X Structure Location, see Joint Seal Table on "JOINT SEAL DETAILS" sheet.

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

DESIGN	BY D. Azzam	CHECKED R. Anderson	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY R. Kirkland	CHECKED R. Anderson	LAYOUT	BY D. Azzam
QUANTITIES	BY D. Azzam	CHECKED R. Anderson	SPECIFICATIONS	BY T. Nedwick

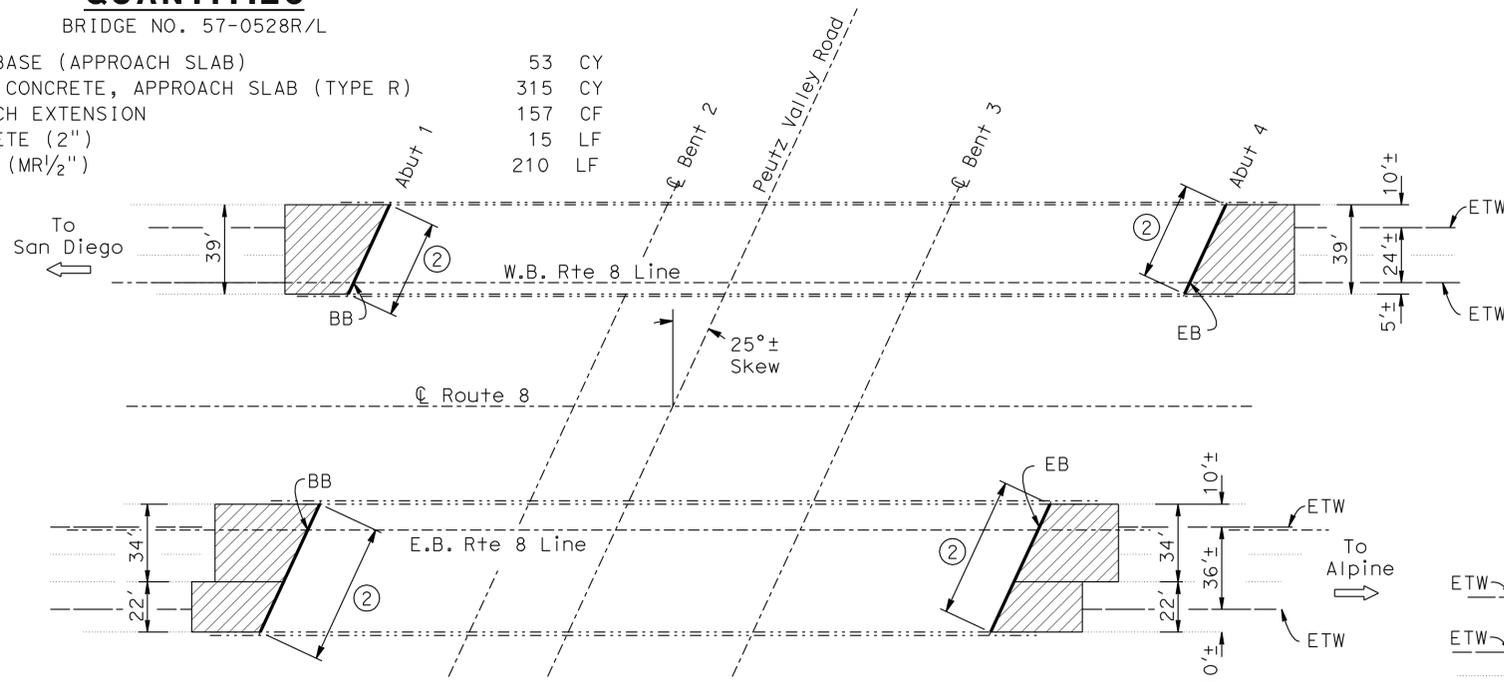
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 10

APPROACH SLAB REHABILITATION
GENERAL PLAN NO. 4

QUANTITIES

BRIDGE NO. 57-0528R/L

AGGREGATE BASE (APPROACH SLAB)	53	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	315	CY
PAVING NOTCH EXTENSION	157	CF
CORE CONCRETE (2")	15	LF
JOINT SEAL (MR $\frac{1}{2}$ ")	210	LF

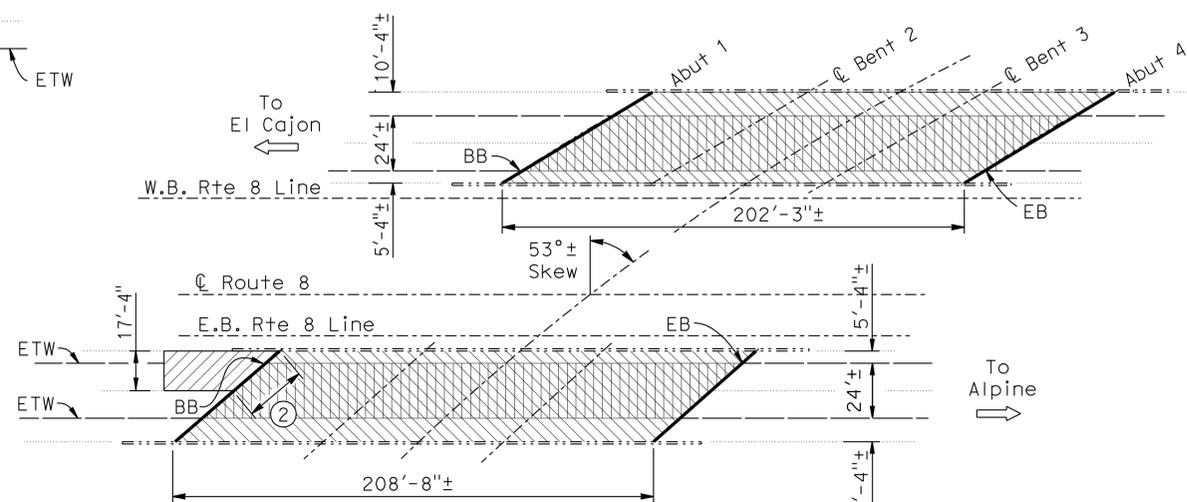


PUETZ VALLEY ROAD UC

Bridge No. 57-0528R/L Rte 8 Post Mile 26.73

1" = 40'

16



FLINN SPRINGS ROAD UC

Bridge No. 57-0534R/L Rte 8 Post Mile 23.64

1" = 40'

18

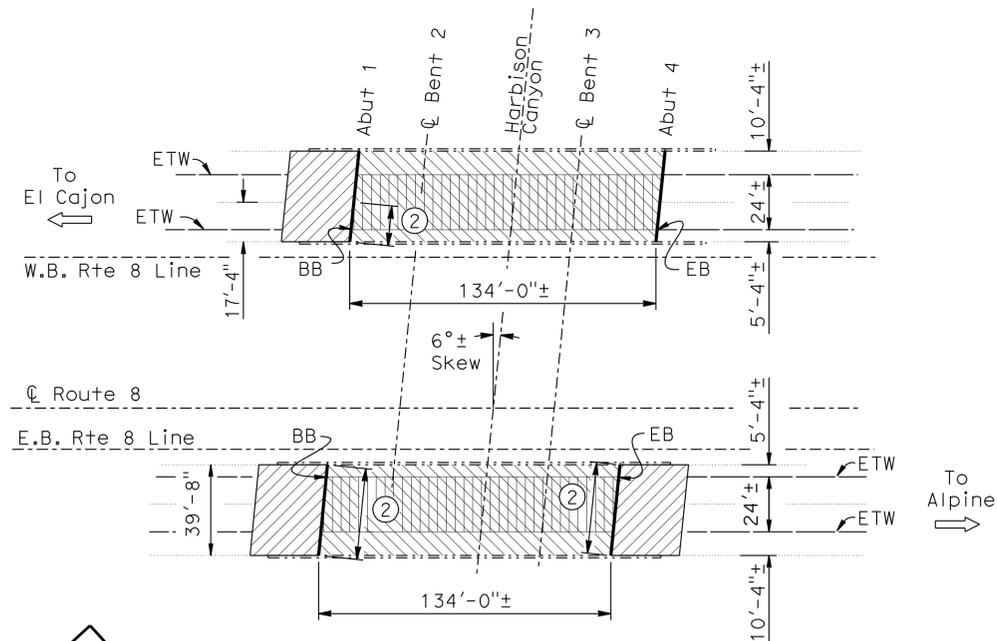
QUANTITIES

BRIDGE NO. 57-0534R/L

REMOVE ASPHALT CONCRETE SURFACING	9,864	SQFT
REMOVE UNSOUND CONCRETE	407	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	16,301	SQFT
AGGREGATE BASE (APPROACH SLAB)	5	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	32	CY
PAVING NOTCH EXTENSION	22	CF
CLEAN EXPANSION JOINT	235	LF
RAPID SETTING CONCRETE (PATCH)	407	CF
FURNISH POLYESTER CONCRETE OVERLAY	1,222	CF
PLACE POLYESTER CONCRETE OVERLAY	16,301	SQFT
CORE CONCRETE (2")	2	LF
JOINT SEAL (MR $\frac{1}{2}$ ")	264	LF

LEGEND:

- Indicates Existing Structure
- Indicates location of existing Joint Seal removal, clean Expansion Joint, and placement of new Joint Seal.
- Indicates Limits of Approach Slab Type R(30D)
- Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick and varies polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch. Polyester concrete shall be placed in one lift. See "DECK OVERLAY DETAILS" sheet.
- Indicates limits of removal of existing 3/4" thick asphalt concrete overlay.
- ① Existing Approach Slab
- ② Limits of Paving Notch Extension
- X Structure Location, see Joint Seal Table on "JOINT SEAL DETAILS" sheet.



HARBISON CANYON UC

Bridge No. 57-0539R/L Rte 8 Post Mile 25.68

1" = 40'

17

QUANTITIES

BRIDGE NO. 57-0539R/L

REMOVE ASPHALT CONCRETE SURFACING	6,432	SQFT
REMOVE UNSOUND CONCRETE	265	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	10,632	SQFT
AGGREGATE BASE (APPROACH SLAB)	26	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	160	CY
PAVING NOTCH EXTENSION	120	CF
CLEAN EXPANSION JOINT	40	LF
RAPID SETTING CONCRETE (PATCH)	265	CF
FURNISH POLYESTER CONCRETE OVERLAY	798	CF
PLACE POLYESTER CONCRETE OVERLAY	10,632	SQFT
CORE CONCRETE (2")	9	LF
JOINT SEAL (MR $\frac{1}{2}$ ")	160	LF

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

Daniel T. Adams DESIGN ENGINEER	DESIGN	BY D. Azzam	CHECKED R. Anderson	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.	Varies	APPROACH SLAB REHABILITATION GENERAL PLAN NO. 5	
	DETAILS	BY R. Kirkland	CHECKED R. Anderson	LAYOUT	BY D. Azzam			CHECKED R. Anderson	POST MILE		Varies
	QUANTITIES	BY D. Azzam	CHECKED R. Anderson	SPECIFICATIONS	BY T. Nedwick			CHECKED T. Nedwick	PLANS AND SPECS COMPARED		Varies

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3589 PROJECT NUMBER & PHASE: 11000201841 CONTRACT NO.: 11-238601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
4/08/11	5	22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,52,94,805	Var	100	116

<i>Renée M. Anderson</i>	9-26-11
REGISTERED CIVIL ENGINEER	DATE
4-30-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER

RENEE ANDERSON

No. 61040

Exp. 12/31/12

CIVIL

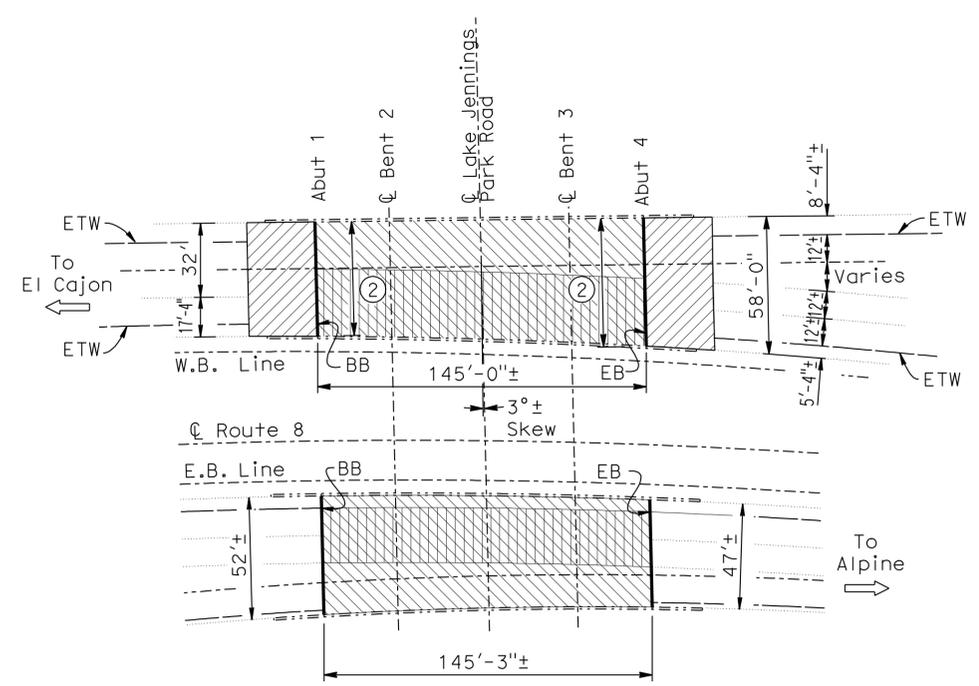
STATE OF CALIFORNIA

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QUANTITIES

BRIDGE NO. 57-0462R/L

REMOVE ASPHALT CONCRETE SURFACING	7,739	SQFT
REMOVE UNSOUND CONCRETE	375	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	14,976	SQFT
AGGREGATE BASE (APPROACH SLAB)	24	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	143	CY
PAVING NOTCH EXTENSION	80	CF
CLEAN EXPANSION JOINT	99	LF
RAPID SETTING CONCRETE (PATCH)	375	CF
FURNISH POLYESTER CONCRETE OVERLAY	1,123	CF
PLACE POLYESTER CONCRETE OVERLAY	14,976	SQFT
PUBLIC SAFETY PLAN		LUMP SUM
CORE CONCRETE (2")	9	LF
JOINT SEAL (MR 1/2")	208	LF



LAKE JENNINGS PARK ROAD UC

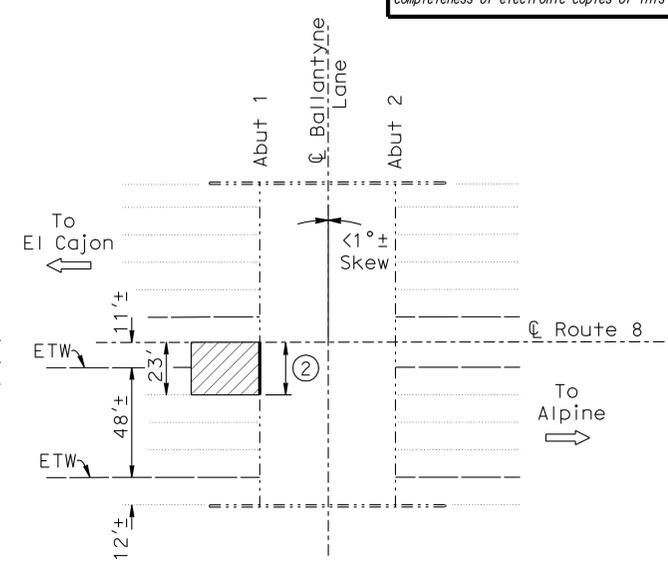
Bridge No. 57-0462R/L Rte 8 Post Mile 21.82
1" = 40'

19

QUANTITIES

BRIDGE NO. 57-0366R

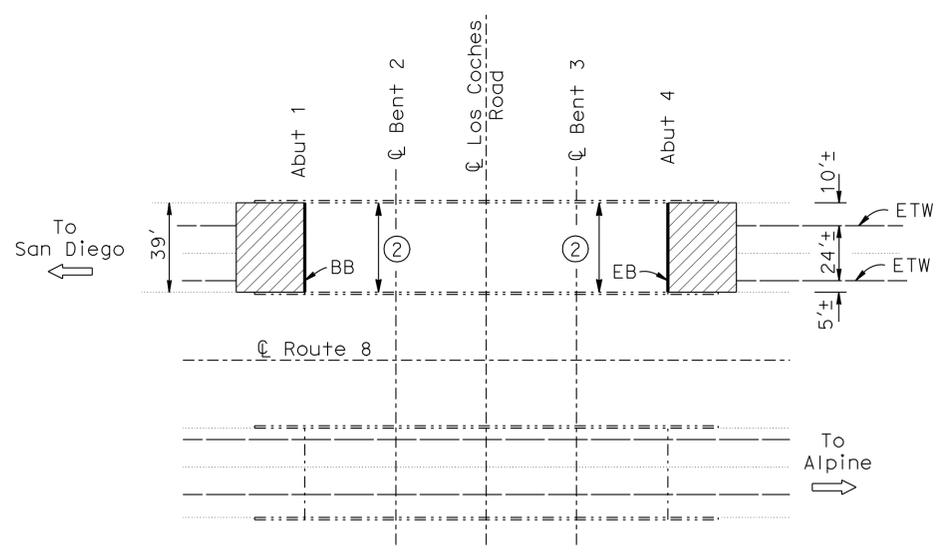
AGGREGATE BASE (APPROACH SLAB)	5	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	31	CY
PAVING NOTCH EXTENSION	17	CF
CORE CONCRETE (2")	2	LF
JOINT SEAL (MR 1/2")	23	LF



BALLANTYNE LANE UC

Bridge No. 57-0366R Rte 8 Post Mile 16.05
1" = 40'

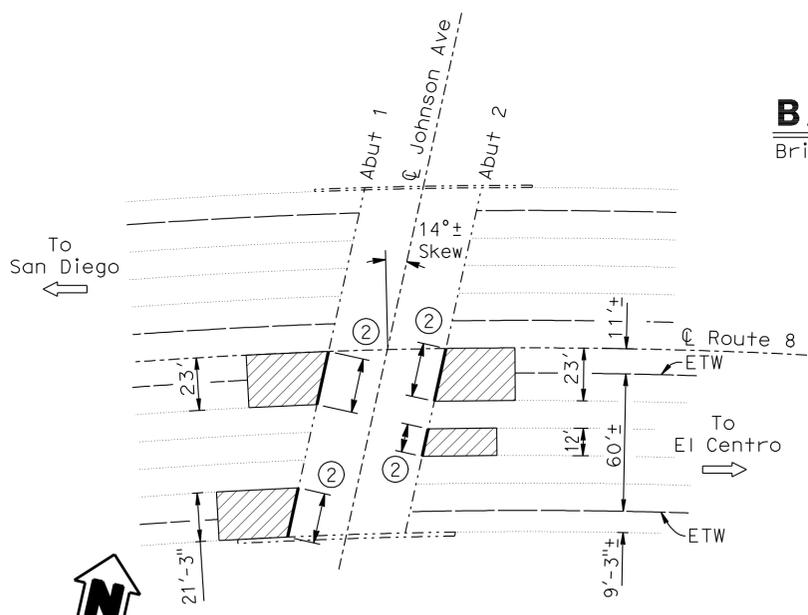
21



LOS COCHEROS ROAD UC

Bridge No. 57-0474L Rte 8 Post Mile 20.04
1" = 40'

20



JOHNSON AVENUE UC

Bridge No. 57-0364 Rte 8 Post Mile 15.30
1" = 40'

22

QUANTITIES

BRIDGE NO. 57-0364

AGGREGATE BASE (APPROACH SLAB)	19	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	113	CY
PAVING NOTCH EXTENSION	65	CF
CORE CONCRETE (2")	6	LF
JOINT SEAL (MR 1/2")	82	LF

QUANTITIES

BRIDGE NO. 57-0474L

AGGREGATE BASE (APPROACH SLAB)	17	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	104	CY
PAVING NOTCH EXTENSION	59	CF
CORE CONCRETE (2")	6	LF
JOINT SEAL (MR 1/2")	78	LF

NOTE:
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LEGEND:

- Indicates Existing Structures
- Indicates location of existing Joint Seal removal, clean Expansion Joint, and placement of new Joint Seal.
- ▨ Indicates Limits of Approach Slab Type R(30D)
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick and varies polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch. Polyester concrete shall be placed in one lift. See "DECK OVERLAY DETAILS" sheet.
- ▨ Indicates limits of removal of existing 3/4" thick asphalt concrete overlay.
- ① Existing Approach Slab
- ② Limits of Paving Notch Extension
- X Structure Location, see Joint Seal Table on "JOINT SEAL DETAILS" sheet.

DESIGN	BY D. Azzam	CHECKED R. Anderson
DETAILS	BY R. Kirkland	CHECKED R. Anderson
QUANTITIES	BY D. Azzam	CHECKED R. Anderson

LOAD & RESISTANCE FACTOR DESIGN	BY D. Azzam	CHECKED R. Anderson
LAYOUT	BY D. Azzam	CHECKED R. Anderson
SPECIFICATIONS	BY T. Nedwick	CHECKED T. Nedwick

LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	
PLANS AND SPECS COMPARED	BY T. Nedwick

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 10

BRIDGE NO.	Varies
POST MILE	Varies

APPROACH SLAB REHABILITATION GENERAL PLAN NO. 6