

INDEX OF PLANS

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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 **ACHSNHP-P029(124)E**
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SANTA CLARA COUNTY
IN SAN JOSE AND MILPITAS
FROM NORTH FIRST STREET OVERCROSSING
TO 0.1 MILE WEST OF ROUTE 237/880 SEPARATION

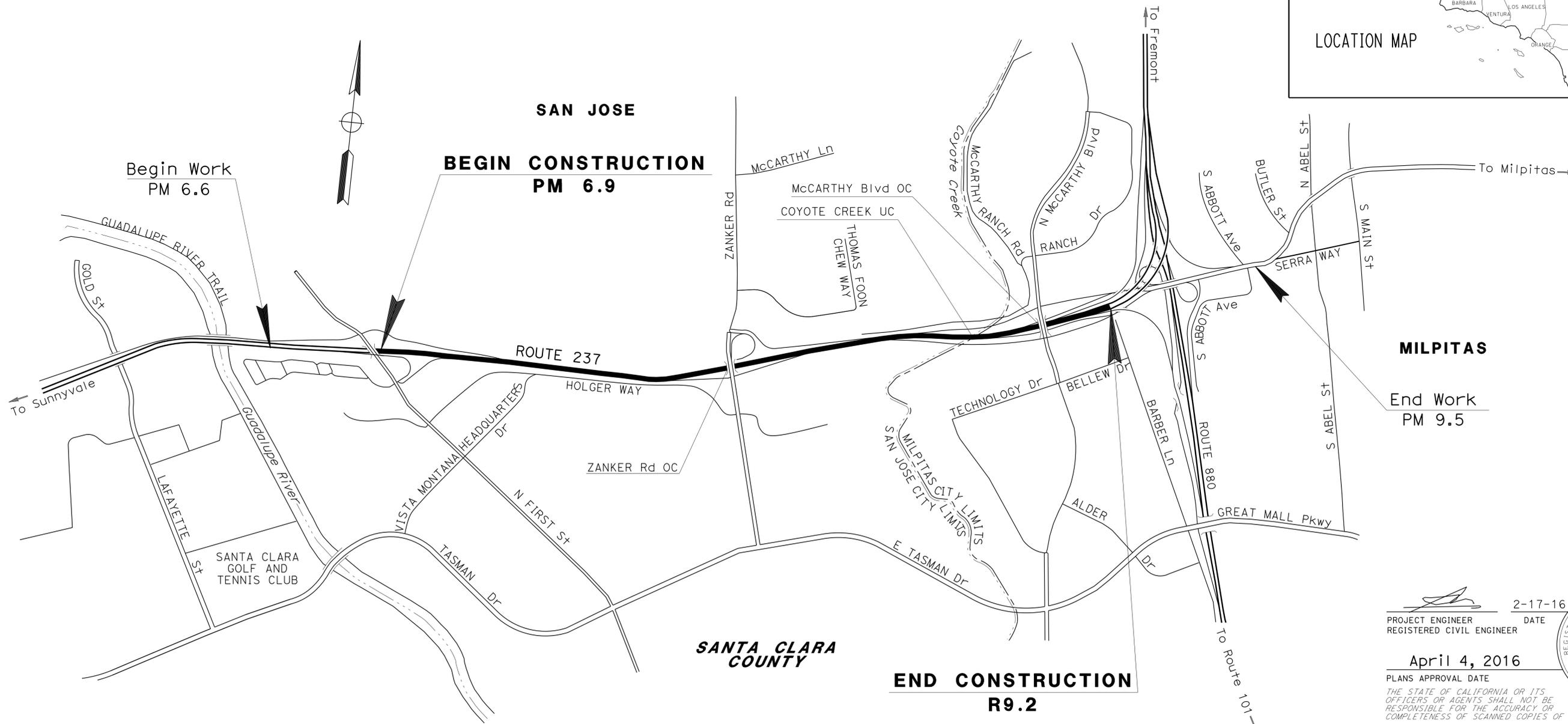
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	1	68





LOCATION MAP



NO SCALE

PROJECT MANAGER
RAMSES SARGISS
 DESIGN MANAGER
ROBERT CAMARGO


 PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER
 DATE **2-17-16**
April 4, 2016
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 Steven S. Lee
 No. 80370
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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

LAST REVISION: 07-21-15
 DATE PLOTTED => 07-APR-2016
 TIME PLOTTED => 11:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	2	68

REGISTERED CIVIL ENGINEER	DATE
4-4-16	2-17-16
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
Steven S. Lee
No. 80370
Exp. 3-31-17
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.

NOTE:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.

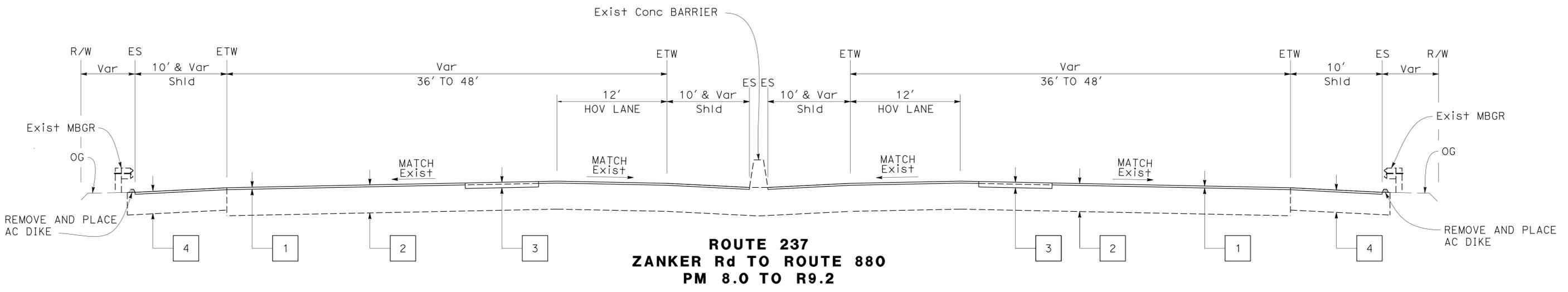
TYPICAL PAVEMENT STRUCTURE SECTIONS

- 1 0.10' RHMA-G
0.10' COLD PLANE AC Pvm+
- 2 Exist
0.65' AC (TYPE A)
0.25' ATPB
0.85' CI 3 AB
1.30' CI 3 ASB
- 3 0.50' HMA (TYPE A)
0.50' COLD PLANE AC Pvm+
- 4 Exist
0.54' AC (TYPE A)
0.25' ATPB
0.64' CI 2 AB
1.00' CI 2 AB

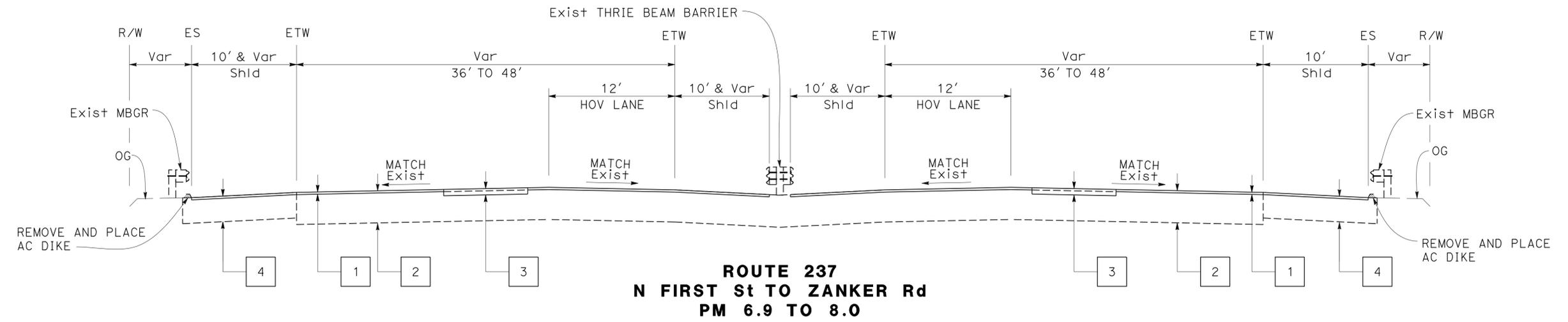
ABBREVIATIONS:

& ASB AND
RHMA-G AGGREGATE SUBBASE
RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR
 RAMSES SARGITS
 CHECKED BY
 JULIETO BASA
 STEVEN S. LEE
 REVISOR
 JULIETO BASA
 STEVEN S. LEE
 DATE REVISOR
 11-23-15
 JOB



**ROUTE 237
ZANKER Rd TO ROUTE 880
PM 8.0 TO R9.2**



**ROUTE 237
N FIRST St TO ZANKER Rd
PM 6.9 TO 8.0**

**TYPICAL CROSS SECTIONS
NO SCALE**

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: STEVEN S. LEE
 CHECKED BY: ROBERT CAMARGO
 REVISIONS: SL 12-4-15

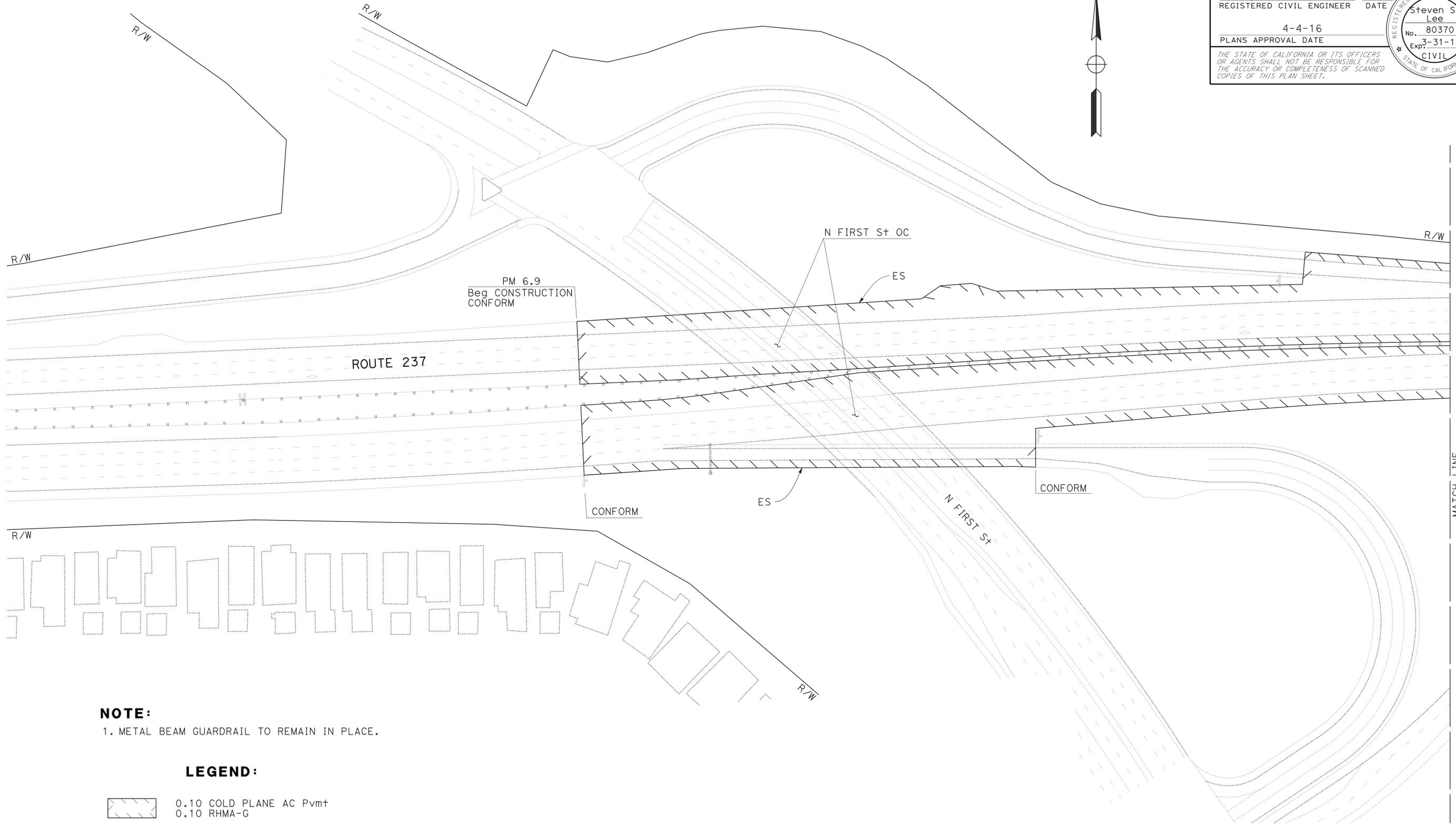
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	3	68

REGISTERED CIVIL ENGINEER: Steven S. Lee
 No. 80370
 Exp. 3-31-17
 CIVIL

DATE: 2-17-16
 PLANS APPROVAL DATE: 4-4-16

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NOTE:
 1. METAL BEAM GUARDRAIL TO REMAIN IN PLACE.

LEGEND:

0.10 COLD PLANE AC Pvm+
 0.10 RHMA-G

ABBREVIATION:

RHMA-G RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

CONSTRUCTION DETAILS
 NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED/DESIGNED BY
 CHECKED BY

STEVEN S. LEE
 ROBERT CAMARGO

REVISOR BY
 DATE REVISED

SL
 12-4-15

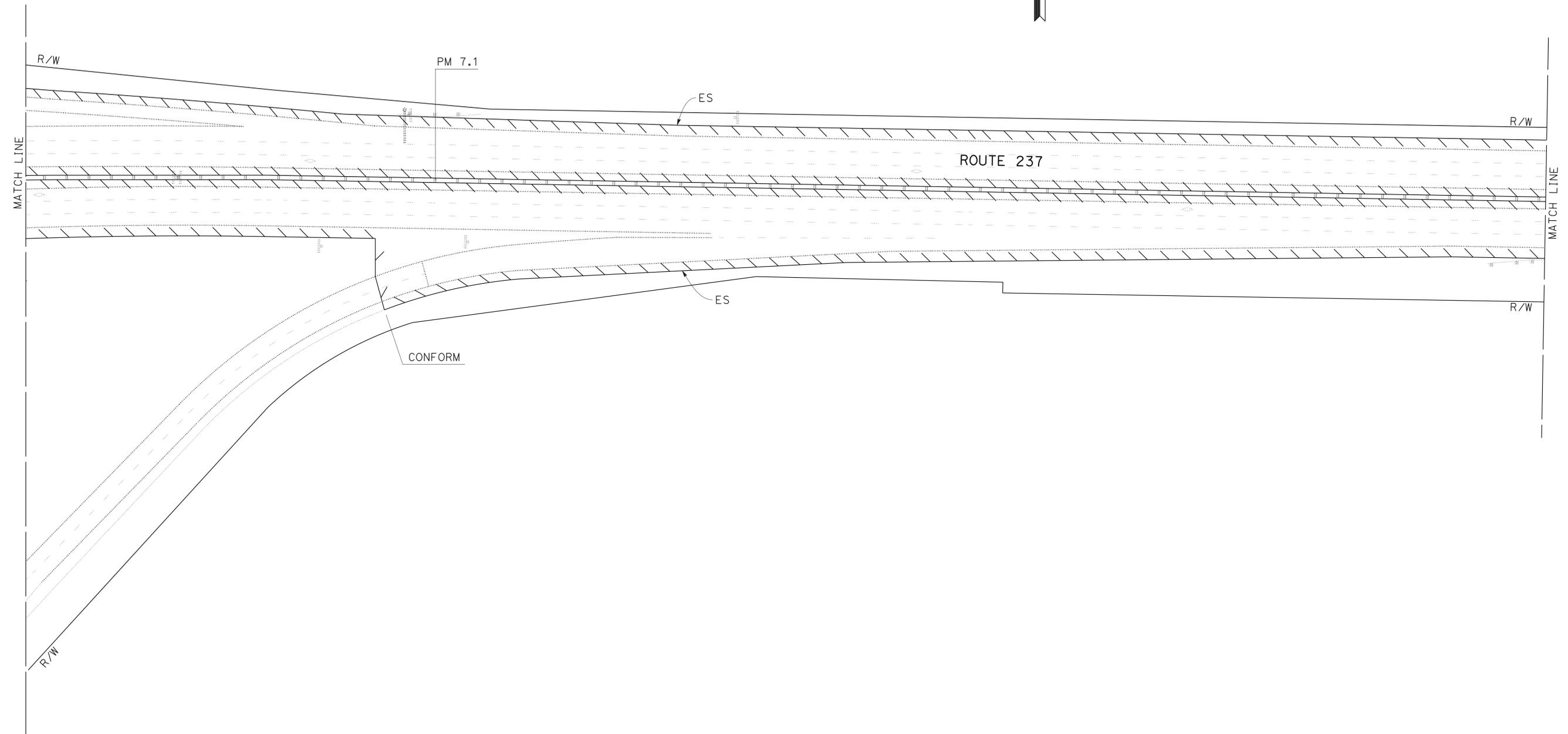
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	4	68

REGISTERED CIVIL ENGINEER DATE 2-17-16
 PLANS APPROVAL DATE 4-4-16

REGISTERED PROFESSIONAL ENGINEER
 Steven S. Lee
 No. 80370
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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CONSTRUCTION DETAILS
 NO SCALE

FOR ABBREVIATION
 AND LEGEND, SEE SHEET C-1

C-2

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Caltrans DESIGN

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED/DESIGNED BY
 CHECKED BY

STEVEN S. LEE
 ROBERT CAMARGO

REVISOR BY
 DATE REVISED

SL
 12-4-15

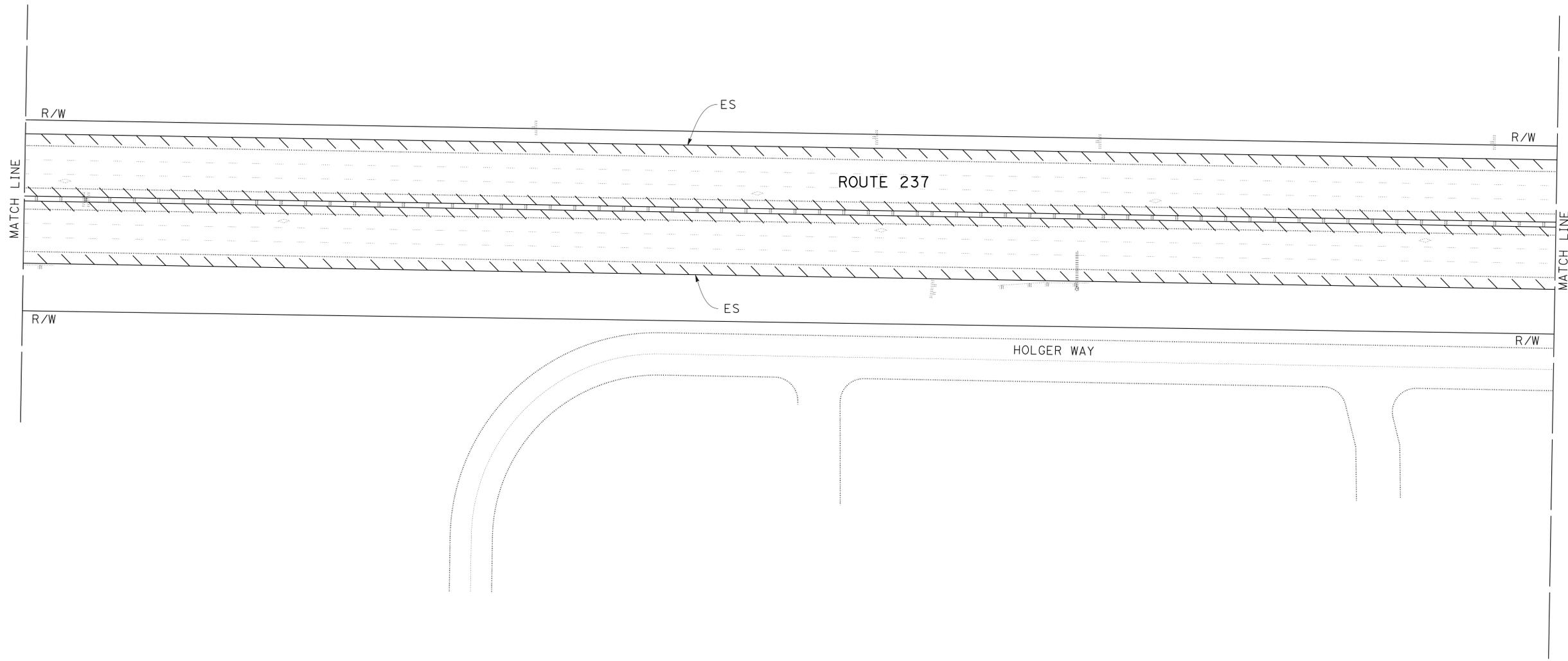
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	5	68

 2-17-16
 REGISTERED CIVIL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Steven S. Lee
 No. 80370
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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FOR ABBREVIATION
 AND LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS
 NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED/DESIGNED BY
 CHECKED BY

STEVEN S. LEE
 ROBERT CAMARGO

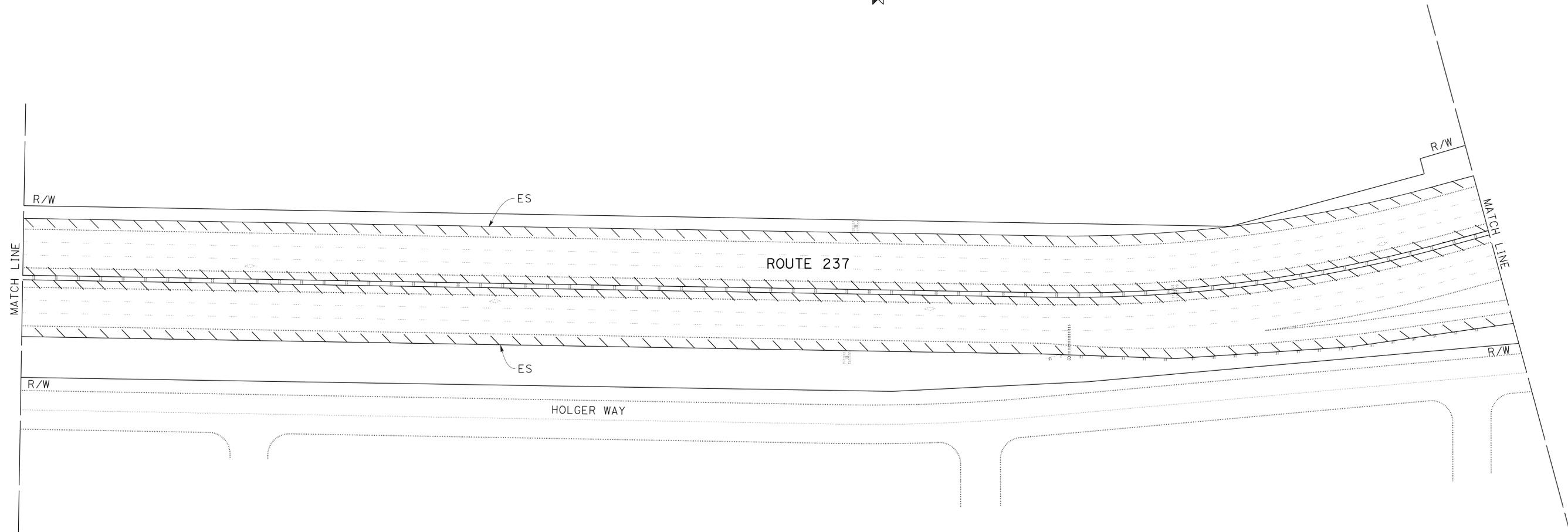
REVISOR
 REVISED BY
 DATE
 REVISED
 DATE
 REVISED

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	6	68

REGISTERED CIVIL ENGINEER DATE 2-17-16
 PLANS APPROVAL DATE 4-4-16
 Steven S. Lee
 No. 80370
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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CONSTRUCTION DETAILS
 NO SCALE

C-4

FOR ABBREVIATION
 AND LEGEND, SEE SHEET C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

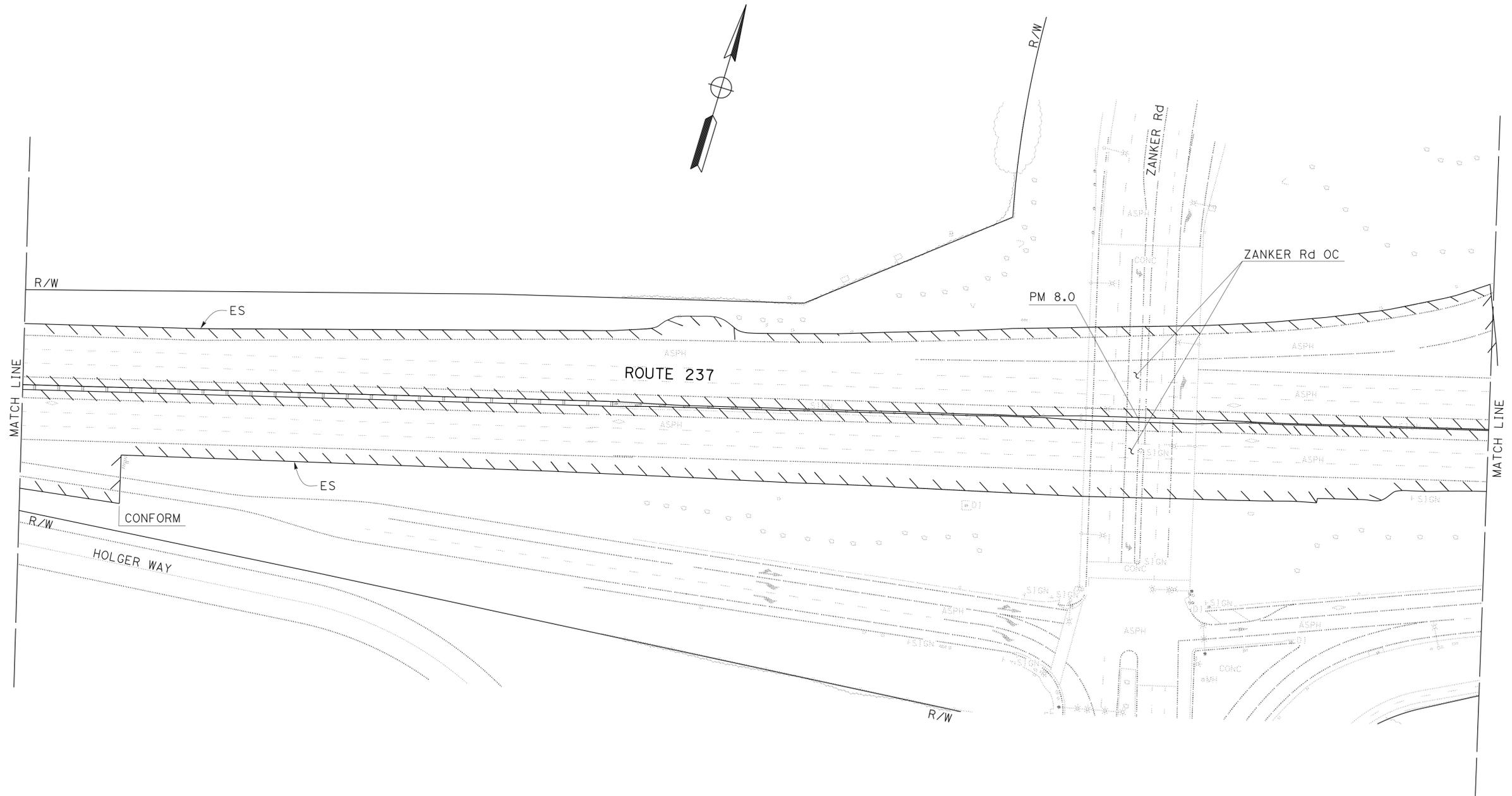
FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: STEVEN S. LEE
 CHECKED BY: ROBERT CAMARGO
 REVISIONS: SL 12-4-15

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	7	68

REGISTERED CIVIL ENGINEER: Steven S. Lee
 No. 80370
 Exp. 3-31-17
 DATE: 2-17-16
 PLANS APPROVAL DATE: 4-4-16

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CONSTRUCTION DETAILS
 NO SCALE

FOR ABBREVIATION AND LEGEND, SEE SHEET C-1

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: STEVEN S. LEE
 CHECKED BY: ROBERT CAMARGO
 REVISED BY: SL
 DATE REVISED: 12-4-15

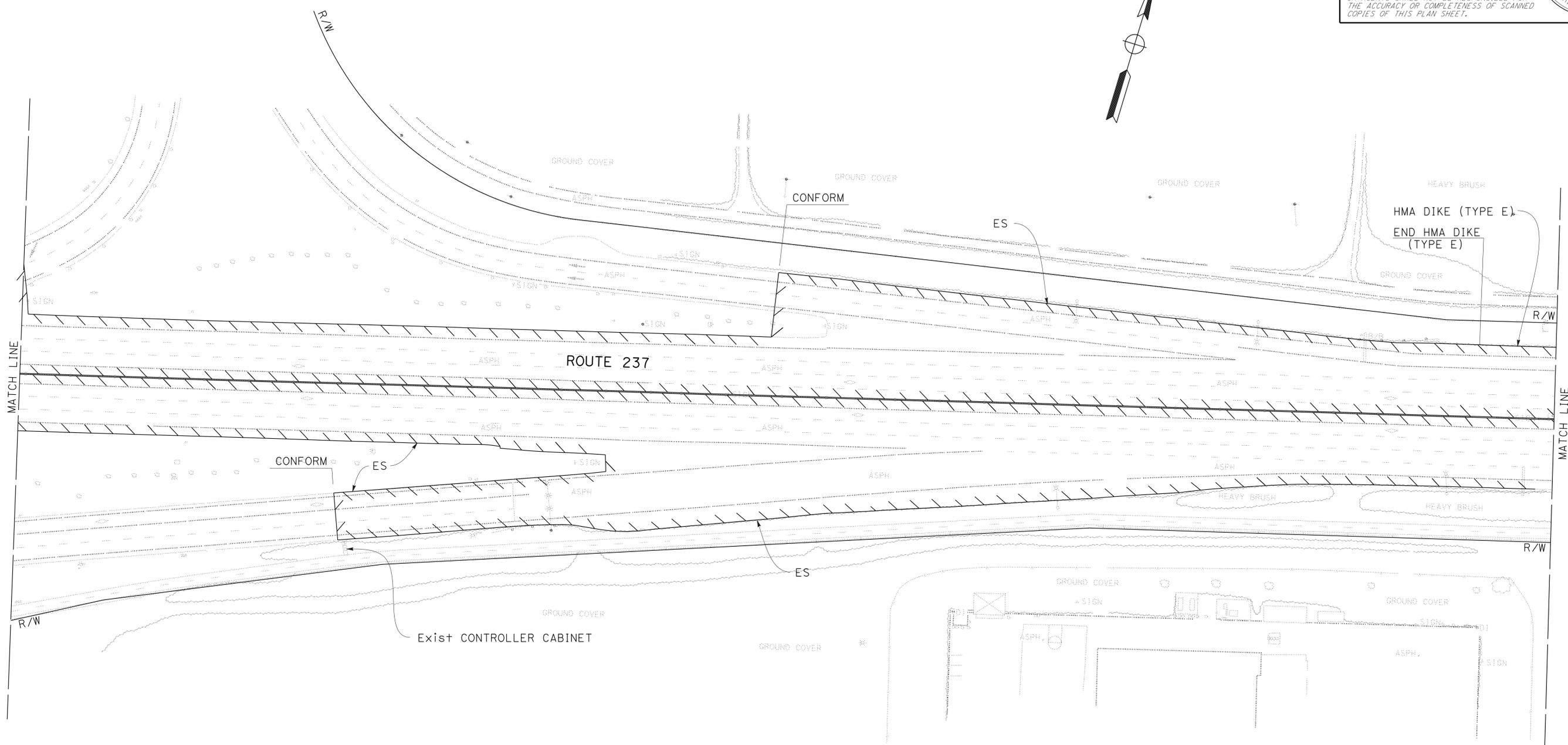
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	8	68

REGISTERED CIVIL ENGINEER: Steven S. Lee
 No. 80370
 Exp. 3-31-17
 CIVIL

DATE: 2-17-16
 PLANS APPROVAL DATE: 4-4-16

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FOR ABBREVIATION AND LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS
 NO SCALE

C-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: STEVEN S. LEE
 CHECKED BY: ROBERT CAMARGO
 REVISED BY: SL
 DATE REVISED: 12-4-15

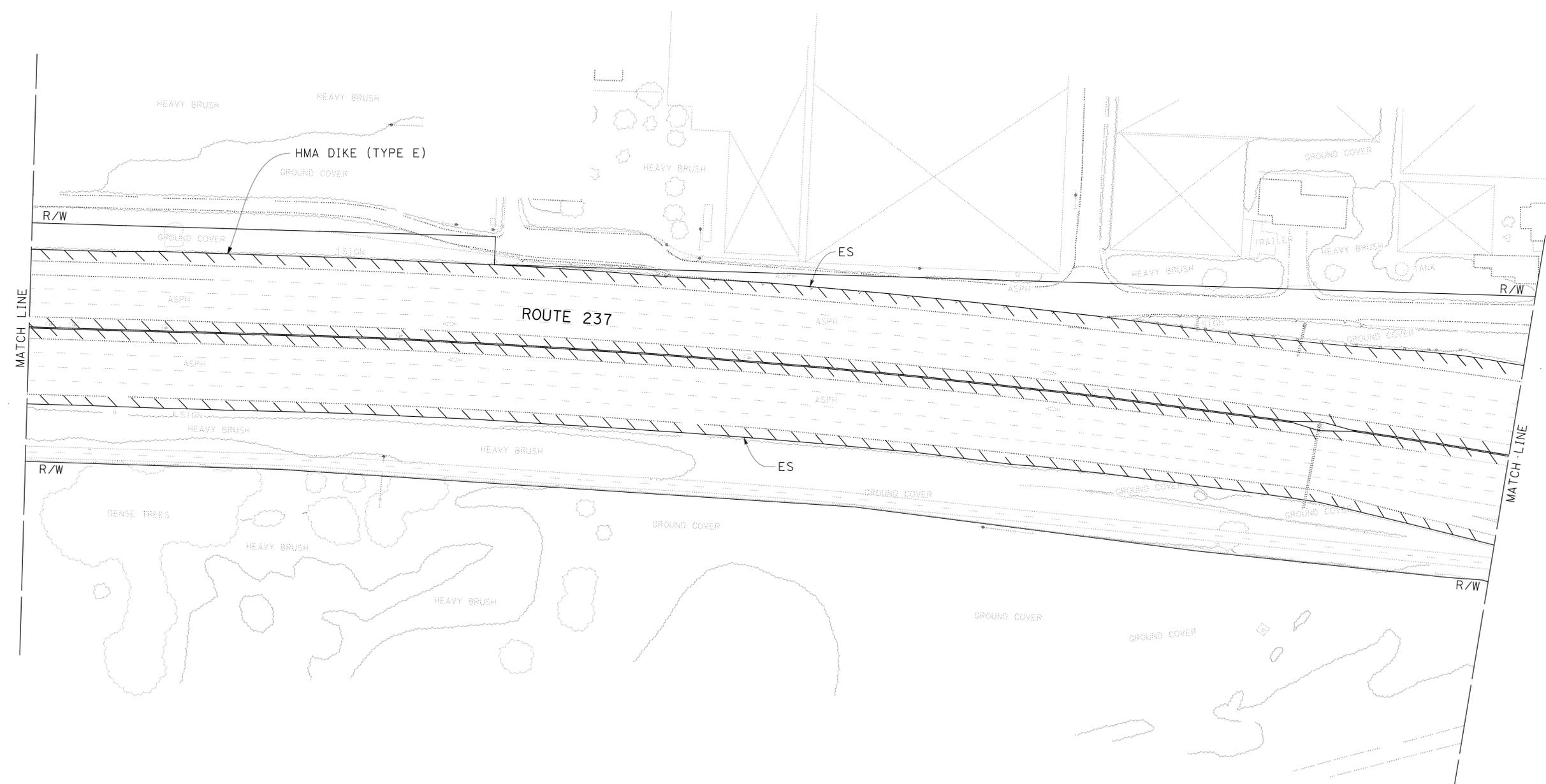
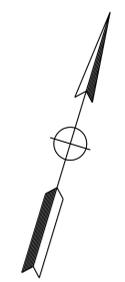
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	9	68

REGISTERED CIVIL ENGINEER DATE: 2-17-16
 PLANS APPROVAL DATE: 4-4-16

Professional Engineer Seal:
 Steven S. Lee
 No. 80370
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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CONSTRUCTION DETAILS
 NO SCALE

FOR ABBREVIATION AND LEGEND, SEE SHEET C-1

C-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 STEVEN S. LEE
 ROBERT CAMARGO
 REVISED BY: SL
 DATE REVISED: 12-4-15

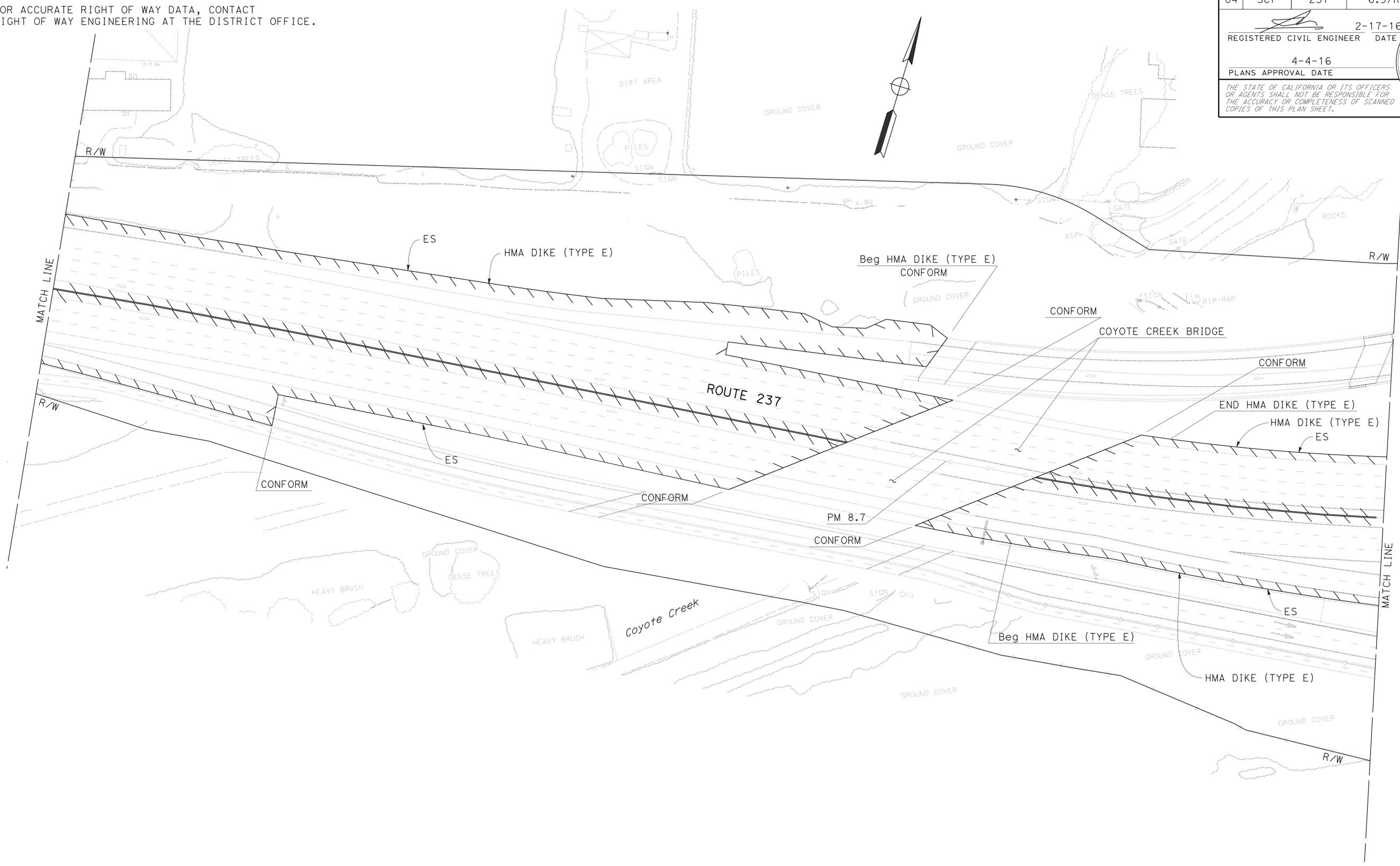
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	10	68

2-17-16
 REGISTERED CIVIL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Steven S. Lee
 No. 80370
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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CONSTRUCTION DETAILS
 NO SCALE

FOR ABBREVIATION AND LEGEND, SEE SHEET C-1

C-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CHECKED BY: ROBERT CAMARGO
 DESIGNED BY: STEVEN S. LEE
 REVISIONS:
 SL 12-4-15
 REVISED BY: DATE

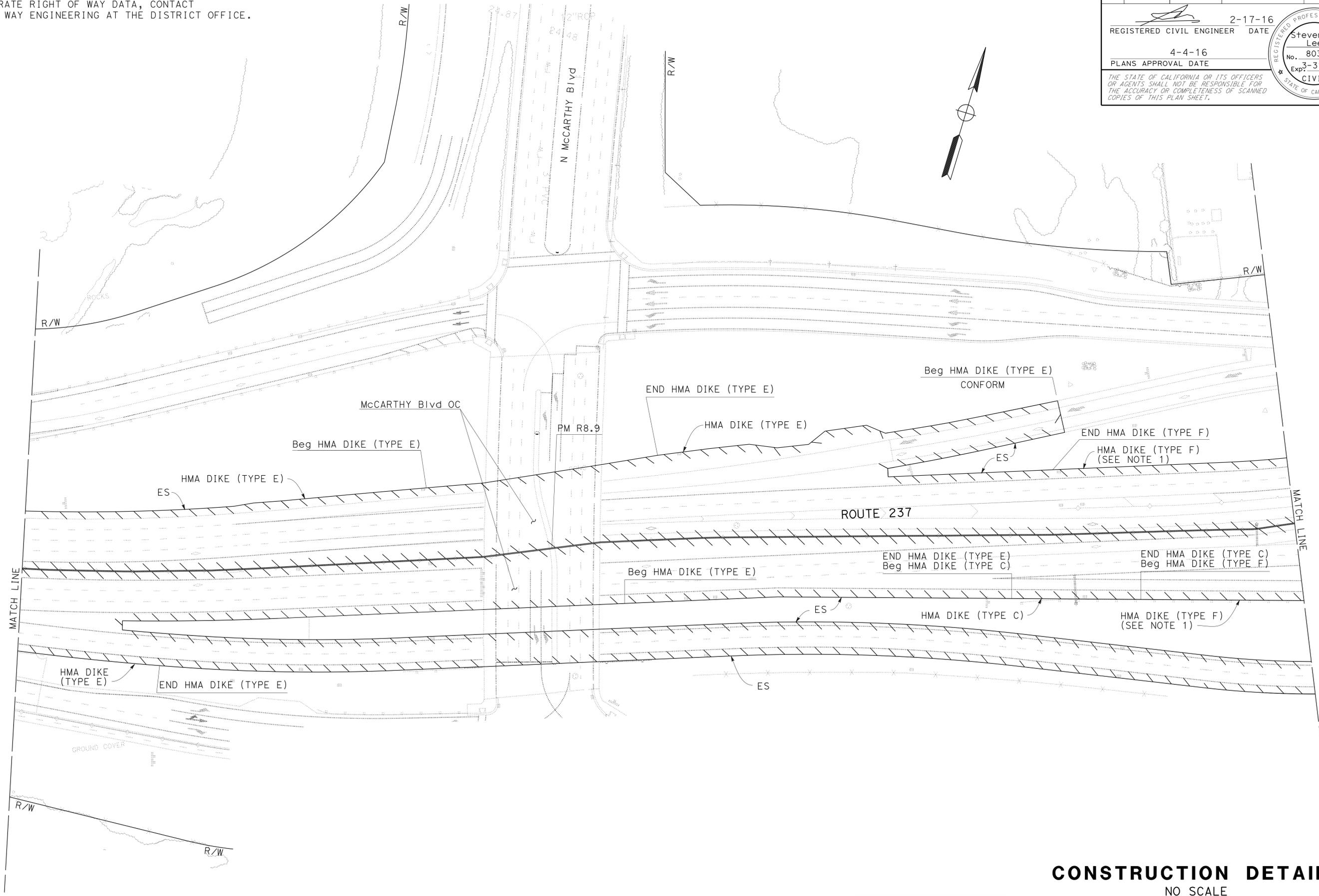
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	11	68

REGISTERED CIVIL ENGINEER: Steven S. Lee
 No. 80370
 Exp. 3-31-17
 CIVIL

DATE: 2-17-16
 DATE: 4-4-16
 PLANS APPROVAL DATE

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FOR ABBREVIATION AND LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS
 NO SCALE

C-9

LAST REVISION DATE PLOTTED => 07-APR-2016
 08-14-15 TIME PLOTTED => 11:31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: STEVEN S. LEE
 CHECKED BY: ROBERT CAMARGO
 REVISED BY: SL
 DATE REVISED: 12-4-15

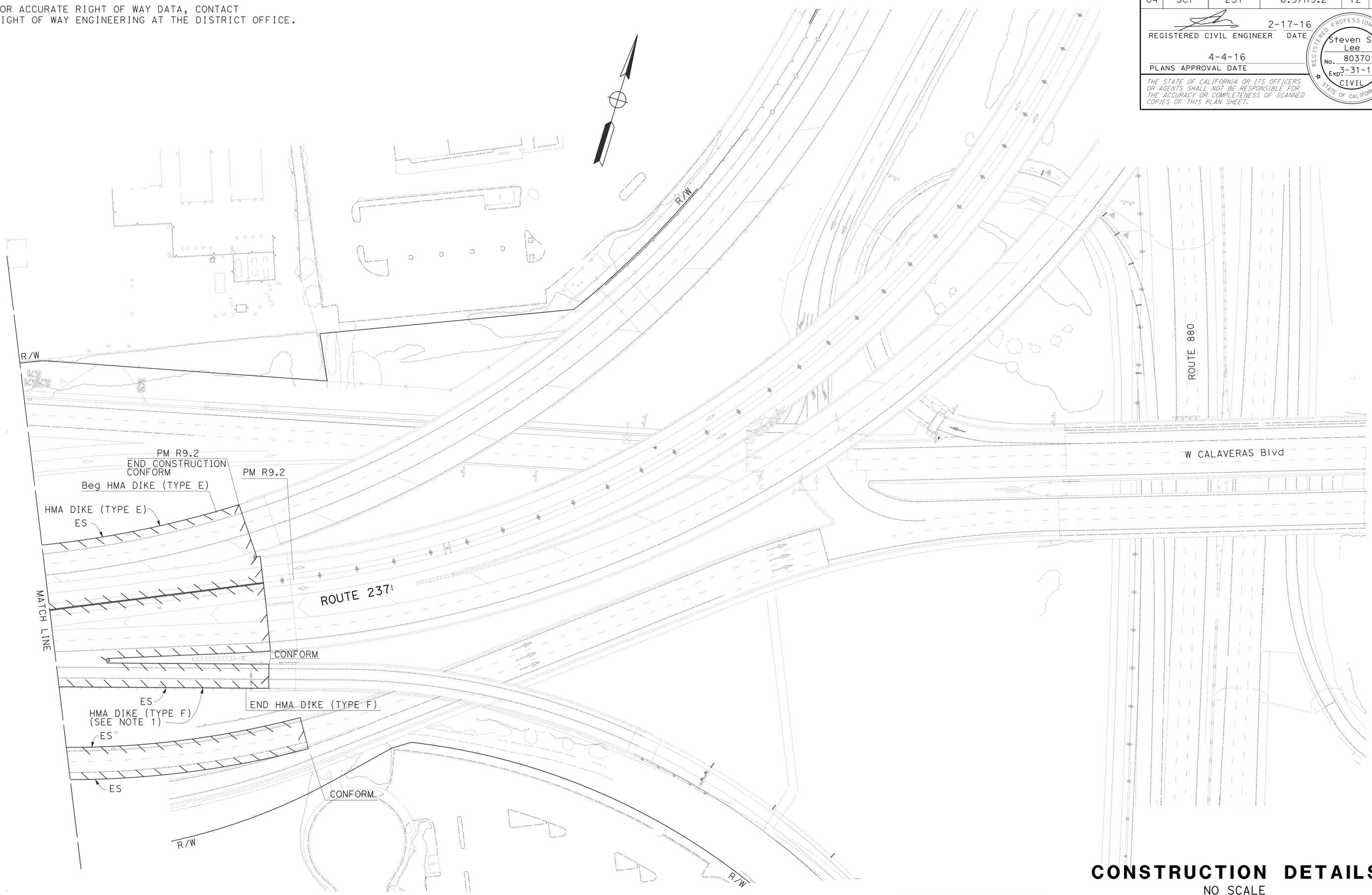
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	12	68

REGISTERED CIVIL ENGINEER DATE: 2-17-16
 PLANS APPROVAL DATE: 4-4-16

Steven S. Lee
 No. 80370
 Exp. 3-31-17
 CIVIL

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FOR ABBREVIATION AND LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS
 NO SCALE

C-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED/DESIGNED BY
 CHECKED BY

STEVEN S. LEE
 ROBERT CAMARGO

REVISOR
 SL
 12-4-15

ABBREVIATION:

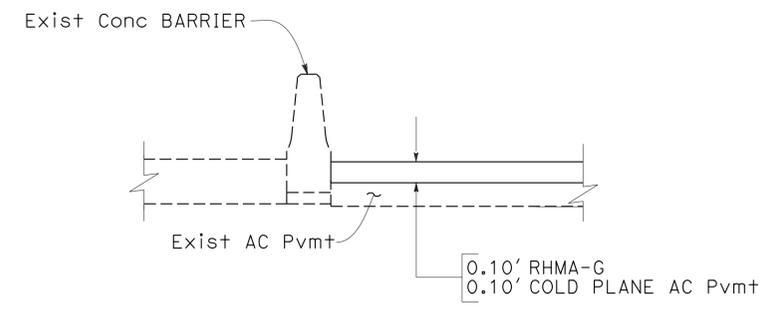
RHMA-G RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	13	68

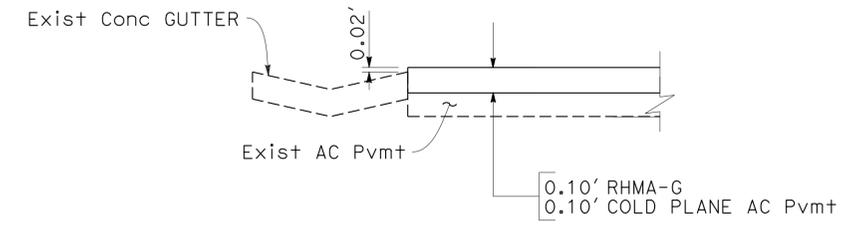
REGISTERED CIVIL ENGINEER	DATE
Steven S. Lee	2-17-16
No. 80370	
Exp. 3-31-17	
CIVIL	

PLANS APPROVAL DATE: 4-4-16

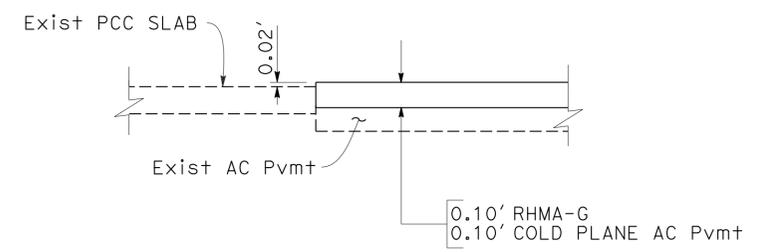
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



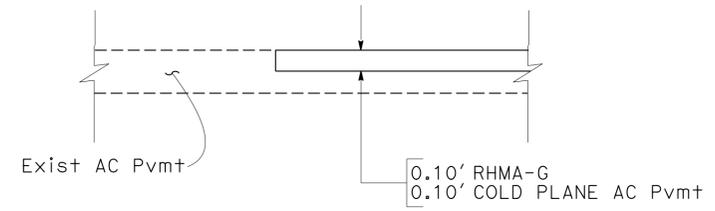
PAVING CONFORM AT CONCRETE BARRIER (Typ)



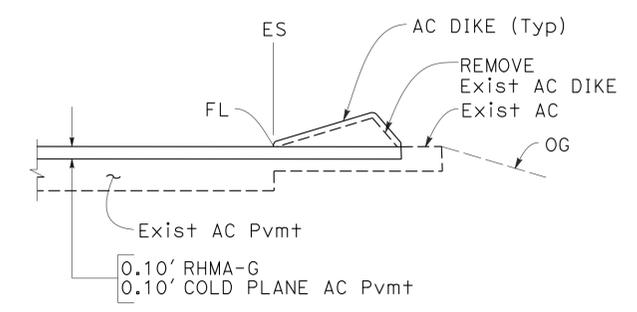
PAVING CONFORM AT CONCRETE CURB AND GUTTER (Typ)



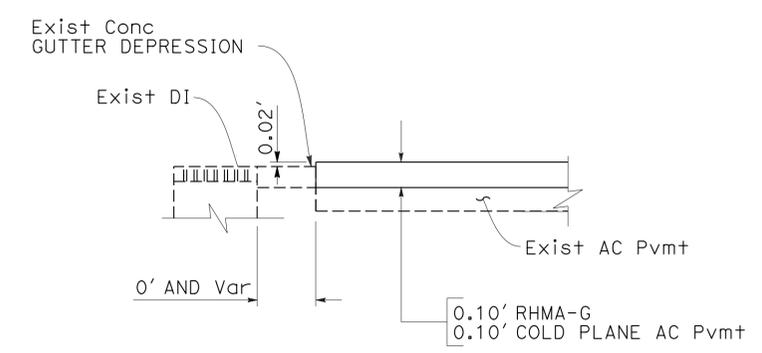
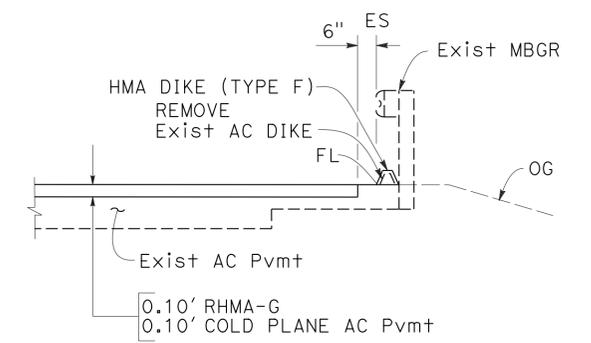
PAVING CONFORM AT APPROACH OR DEPARTURE AND AT BEGIN/END BRIDGE (Typ)



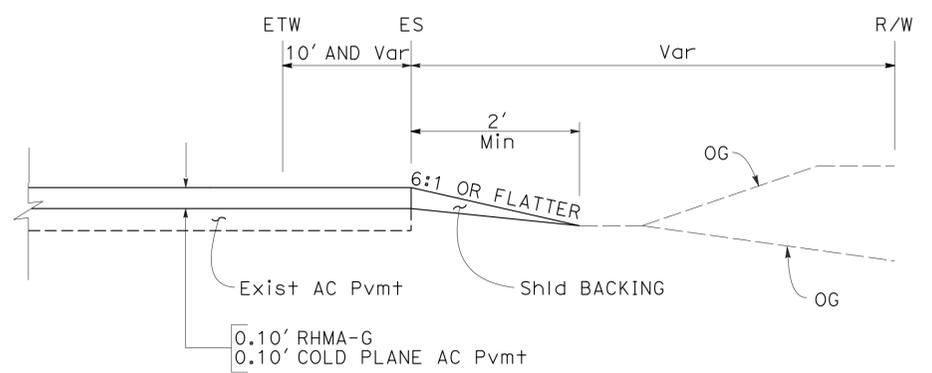
PAVING CONFORM AT BEGIN AND END CONSTRUCTION



PAVING DETAIL WHERE AC DIKE IS PRESENT (Typ)



PAVING CONFORM AT DRAINAGE INLET (Typ)



SHOULDER BACKING (Typ)

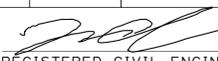
CONSTRUCTION DETAILS
 NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans WATER QUALITY
 FUNCTIONAL SUPERVISOR
 KAMRAN NAKHJIRI
 CALCULATED/DESIGNED BY
 CHECKED BY
 JIANGFAN CHEN
 KAMRAN NAKHJIRI
 REVISED BY
 DATE REVISED
 JC
 3-25-16

NOTE:

- FINAL LOCATIONS OF TEMPORARY INLET WILL BE DETERMINED BY THE RESIDENT ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	14	68

 3-25-16
 REGISTERED CIVIL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Jiangfan Chen
 No. 77248
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA

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

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

LOCATION	TEMPORARY DRAINAGE INLET PROTECTION
	Rte 237 PM 6.9/R9.2

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

WPCQ-1

LAST REVISION | DATE PLOTTED => 07-APR-2016
 03-25-16 | TIME PLOTTED => 11:31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: RAJESH OBEROI
 CHECKED BY: RAJESH OBEROI
 ROY YUAN
 REVISOR: RY
 DATE: 3-2-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	15	68

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

Rajesh Oberoi
 No. 46046
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

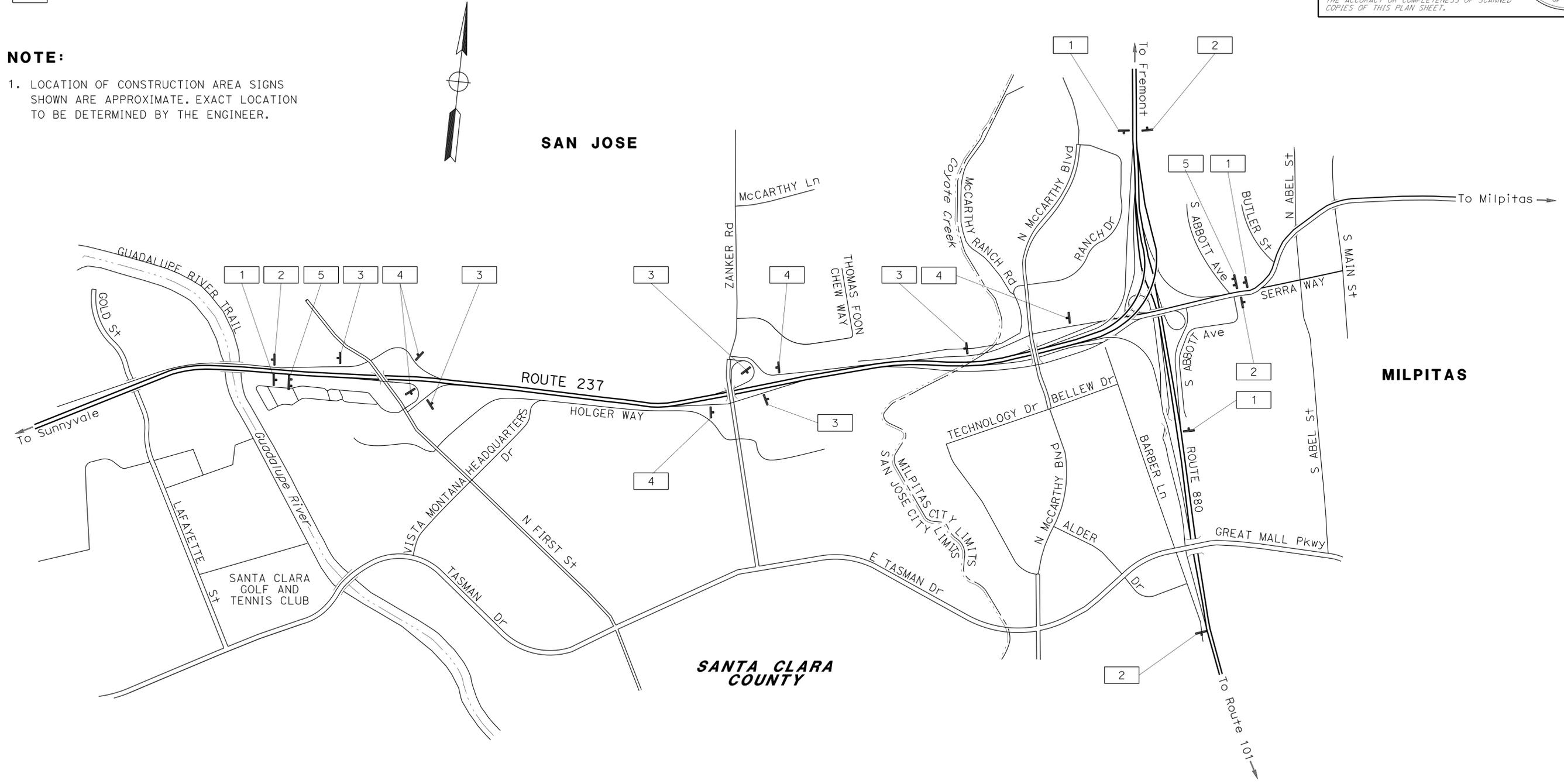
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LEGEND:

No. CONSTRUCTION AREA SIGN NUMBER

NOTE:

1. LOCATION OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.

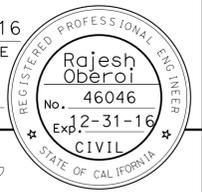


CONSTRUCTION AREA SIGNS
 NO SCALE

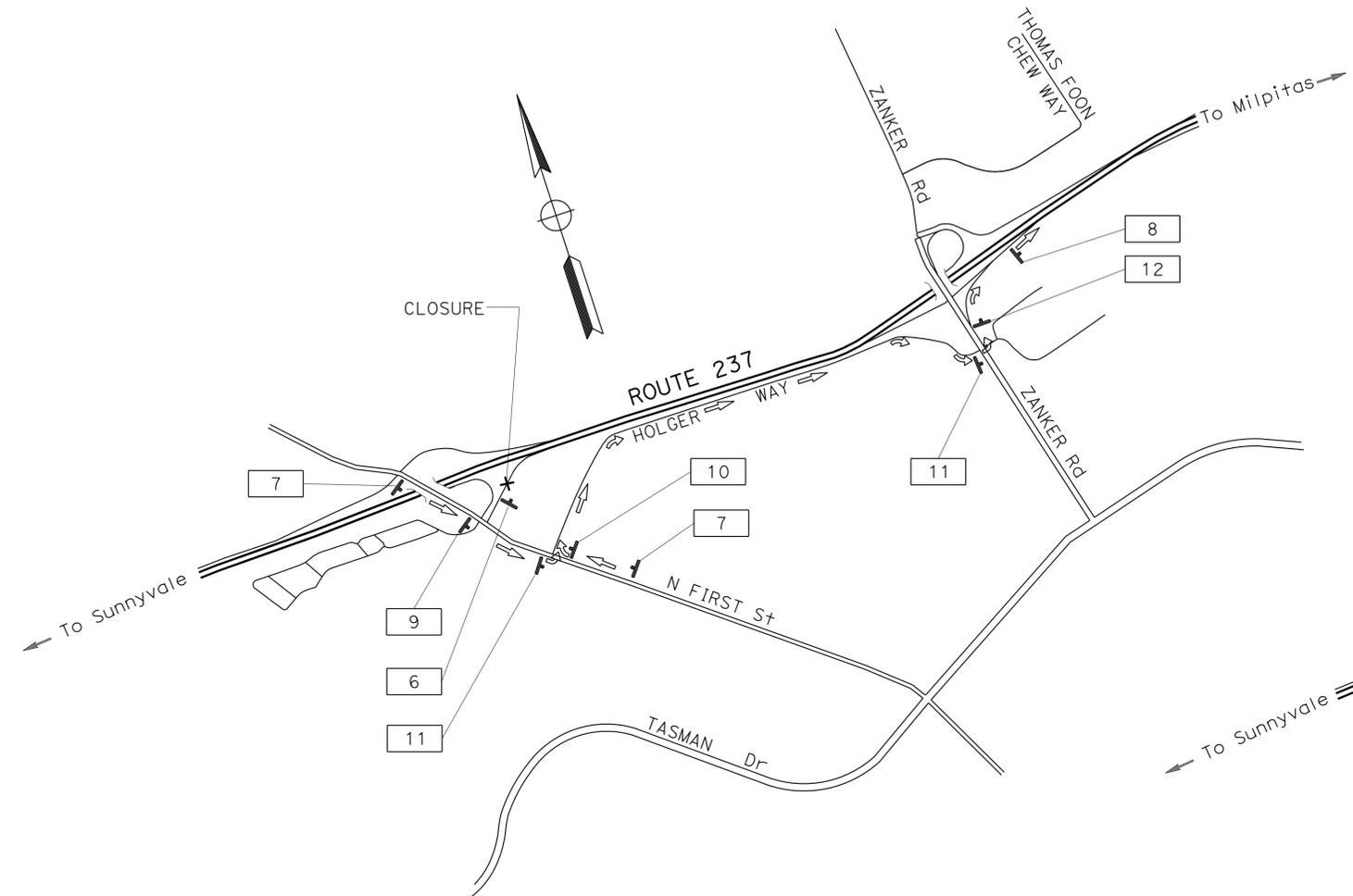
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	16	68
Rajesh Oberoi			3-2-16	DATE	
REGISTERED CIVIL ENGINEER			No. 46046		
PLANS APPROVAL DATE			4-4-16	Exp. 2-31-16	
<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>					

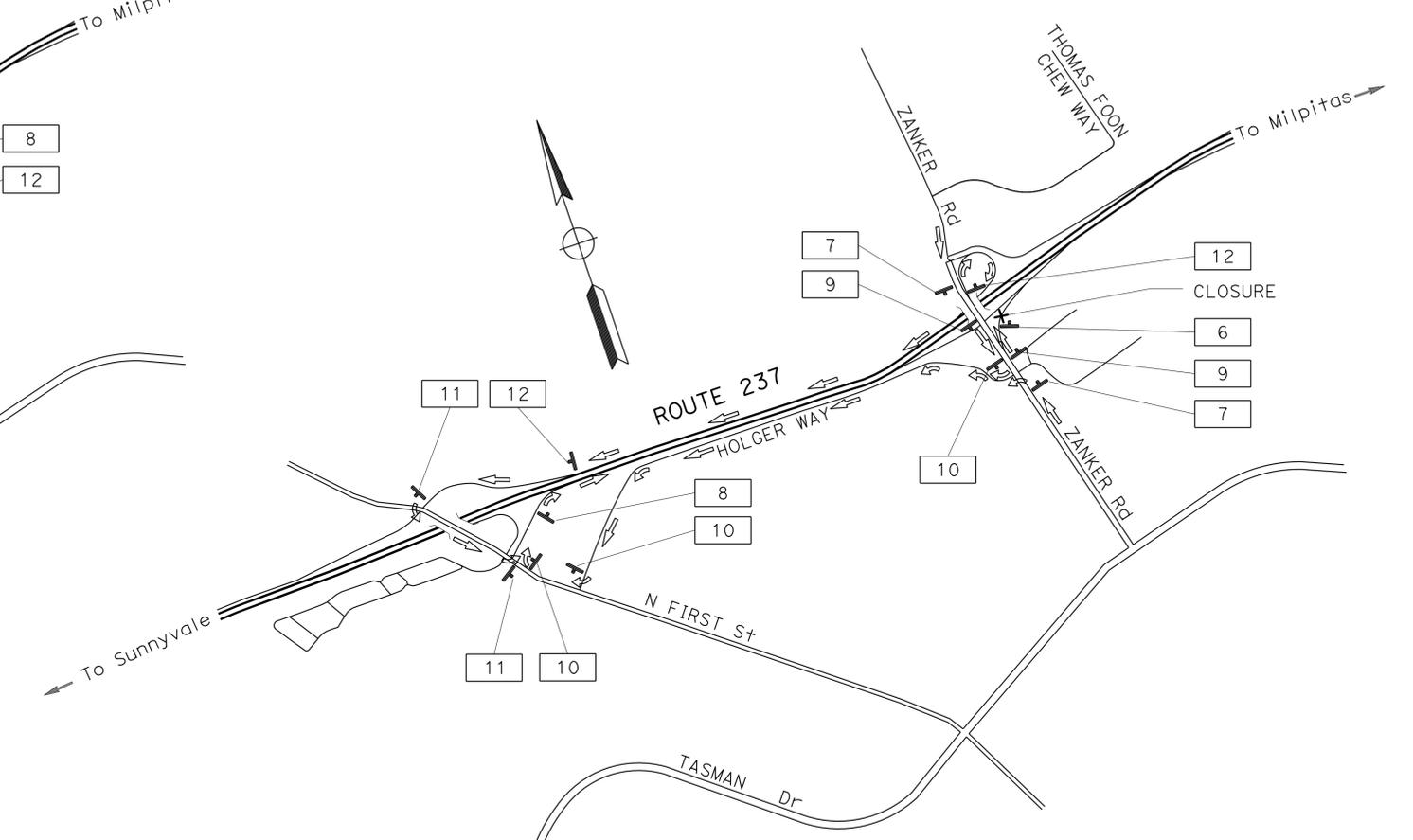


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	ROY YUAN	REVISOR	RY
Caltrans	RAJESH OBEROI	DATE	3-2-16
FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	
ROLAND AU-YEUNG			



DETOUR PLAN No. 1
EB ROUTE 237 ON-RAMP
FROM N FIRST St+ CLOSED

DETOUR
VIA: NB/SB N FIRST St+; EB HOLGER WAY; NB ZANKER Rd; ON-RAMP TO EB Rte 237



DETOUR PLAN No. 2
EB ROUTE 237 ON-RAMP
FROM ZANKER Rd CLOSED

DETOUR
VIA: NB ZANKER Rd; LOOP ON-RAMP TO WB Rte 237; WB Rte 237; OFF-RAMP TO N FIRST St+; SB N FIRST St+; ON-RAMP TO EB Rte 237 SB ZANKER Rd; WB HOLGER WAY; NB N FIRST St+; ON-RAMP TO EB Rte 237

CONSTRUCTION AREA SIGNS
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET CS-1

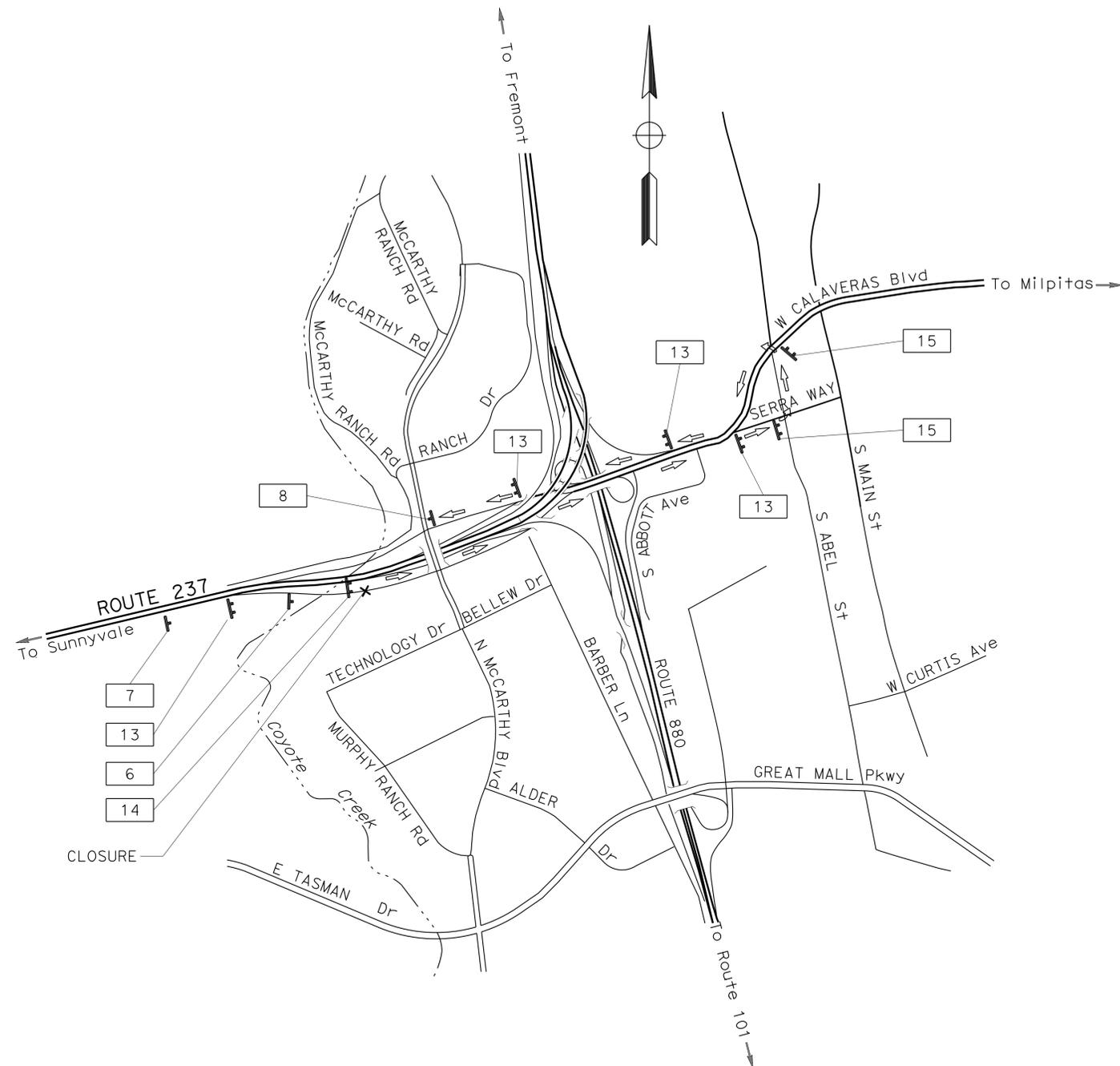
CS-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	17	68

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

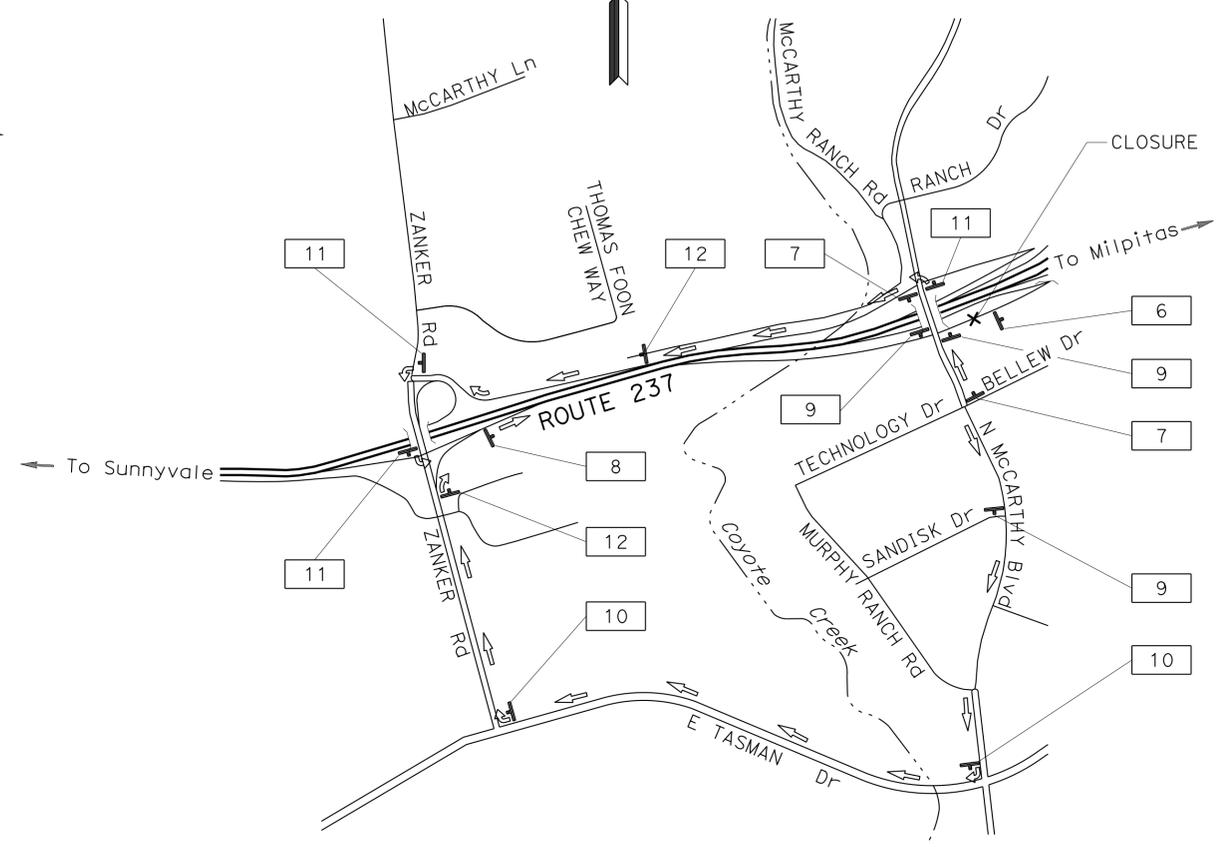
REGISTERED PROFESSIONAL ENGINEER
 Rajesh Oberoi
 No. 46046
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

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



DETOUR PLAN No. 3
 EB ROUTE 237 OFF-RAMP TO McCarthy Blvd CLOSED

DETOUR	
VIA:	
EB Rte 237 (W CALAVERAS Blvd);	
EB SERRA WAY;	
NB S ABEL St;	
WB Rte 237 (W CALAVERAS Blvd);	
OFF-RAMP TO McCarthy Blvd	



DETOUR PLAN No. 4
 EB ROUTE 237 ON-RAMP FROM McCarthy Blvd CLOSED

DETOUR	
VIA:	
NB N McCarthy Blvd;	
ON-RAMP TO WB Rte 237;	
WB Rte 237;	
OFF-RAMP TO ZANKER Rd;	
SB ZANKER Rd;	
ON-RAMP TO EB Rte 237	
SB N McCarthy Blvd;	
WB E TASMAN Dr;	
NB ZANKER Rd;	
ON-RAMP TO EB Rte 237	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans®
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: RAJESH OBEROI
 CHECKED BY: RAJESH OBEROI
 REVISIONS: RY 3-2-16
 REVISIONS: DATE REVISIONS: 3-2-16

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	18	68

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

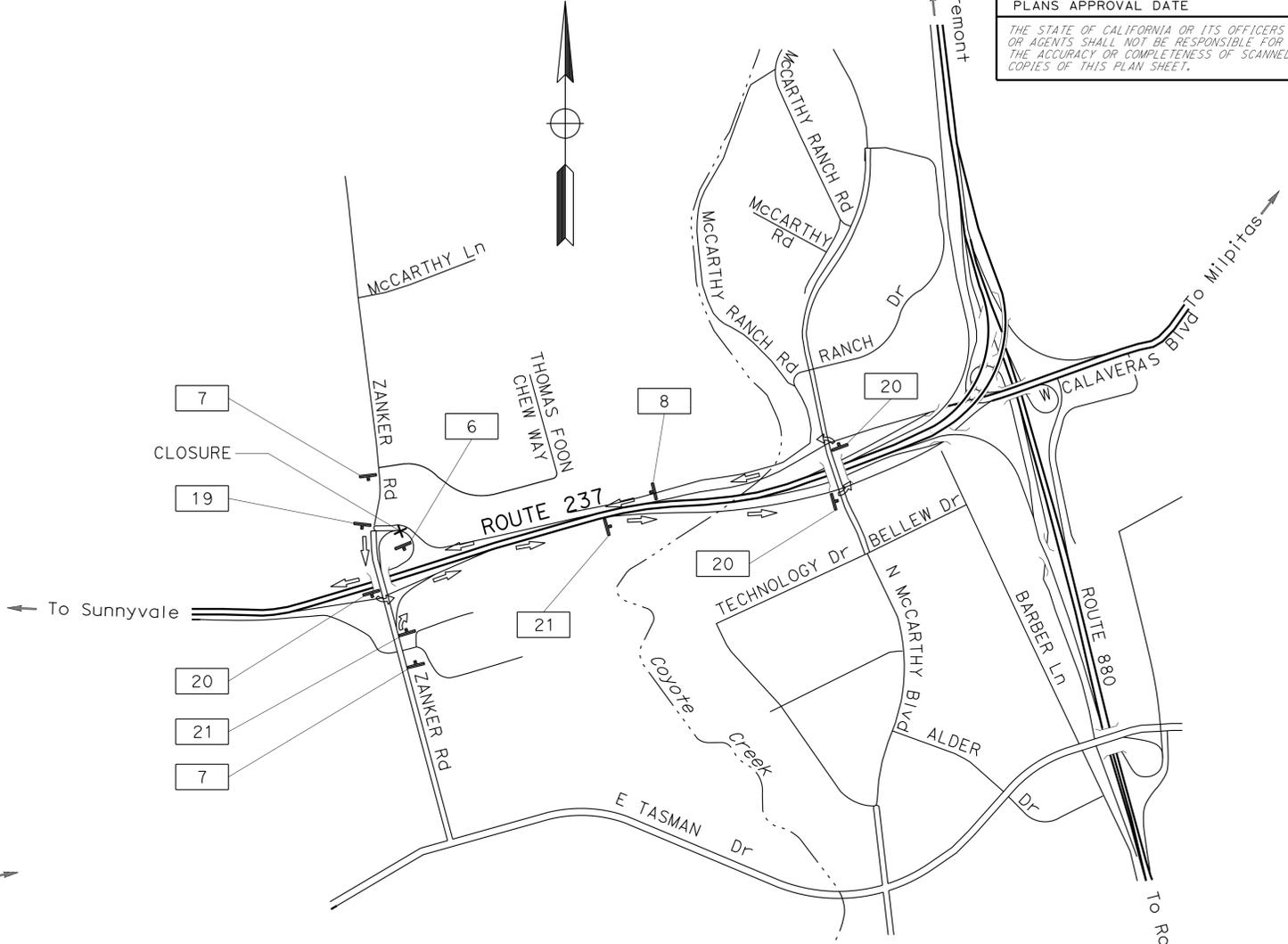
REGISTERED PROFESSIONAL ENGINEER
 Rajesh Oberoi
 No. 46046
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

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DETOUR PLAN No. 5
 EB ROUTE 237 CONNECTOR OFF-RAMP TO SB ROUTE 880 CLOSED

DETOUR
VIA:
EB Rte 237 CONNECTOR OFF-RAMP TO NB Rte 880;
NB Rte 880;
OFF-RAMP TO DIXON LANDING Rd;
WB DIXON LANDING Rd;
ON-RAMP TO SB Rte 880



DETOUR PLAN No. 6
 WB ROUTE 237 ON-RAMP FROM ZANKER Rd CLOSED

DETOUR
VIA:
NB/SB ZANKER Rd;
ON-RAMP TO EB Rte 237;
EB Rte 237;
OFF-RAMP TO MCCARTHY BLVD;
NB N MCCARTHY BLVD;
ON-RAMP TO WB Rte 237

CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

CS-4

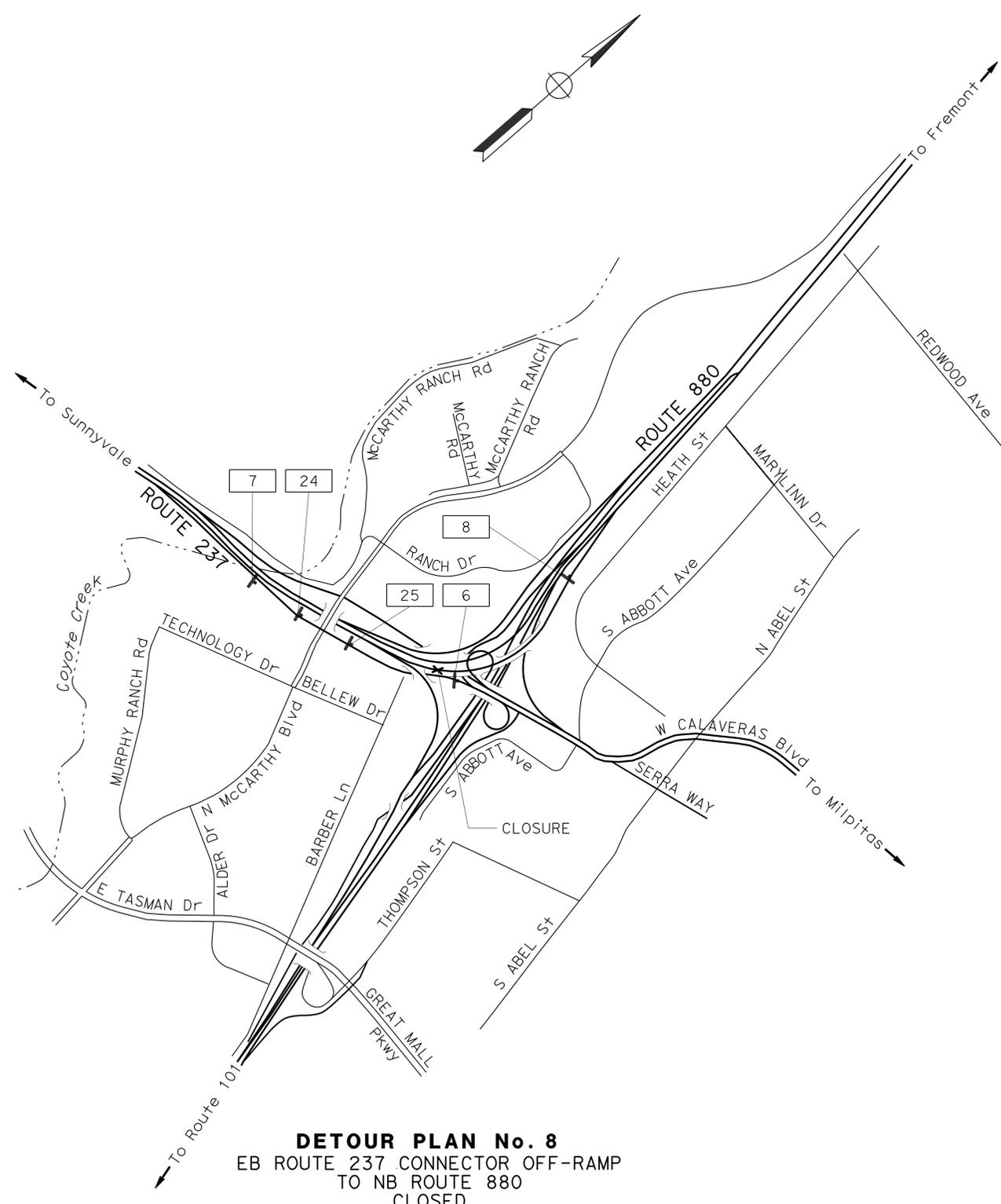
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: ROLAND AU-YEUNG
 CHECKED BY: RAJESH OBEROI
 ROY YUAN
 REVISOR: RAJESH OBEROI
 RY: 3-2-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	20	68

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

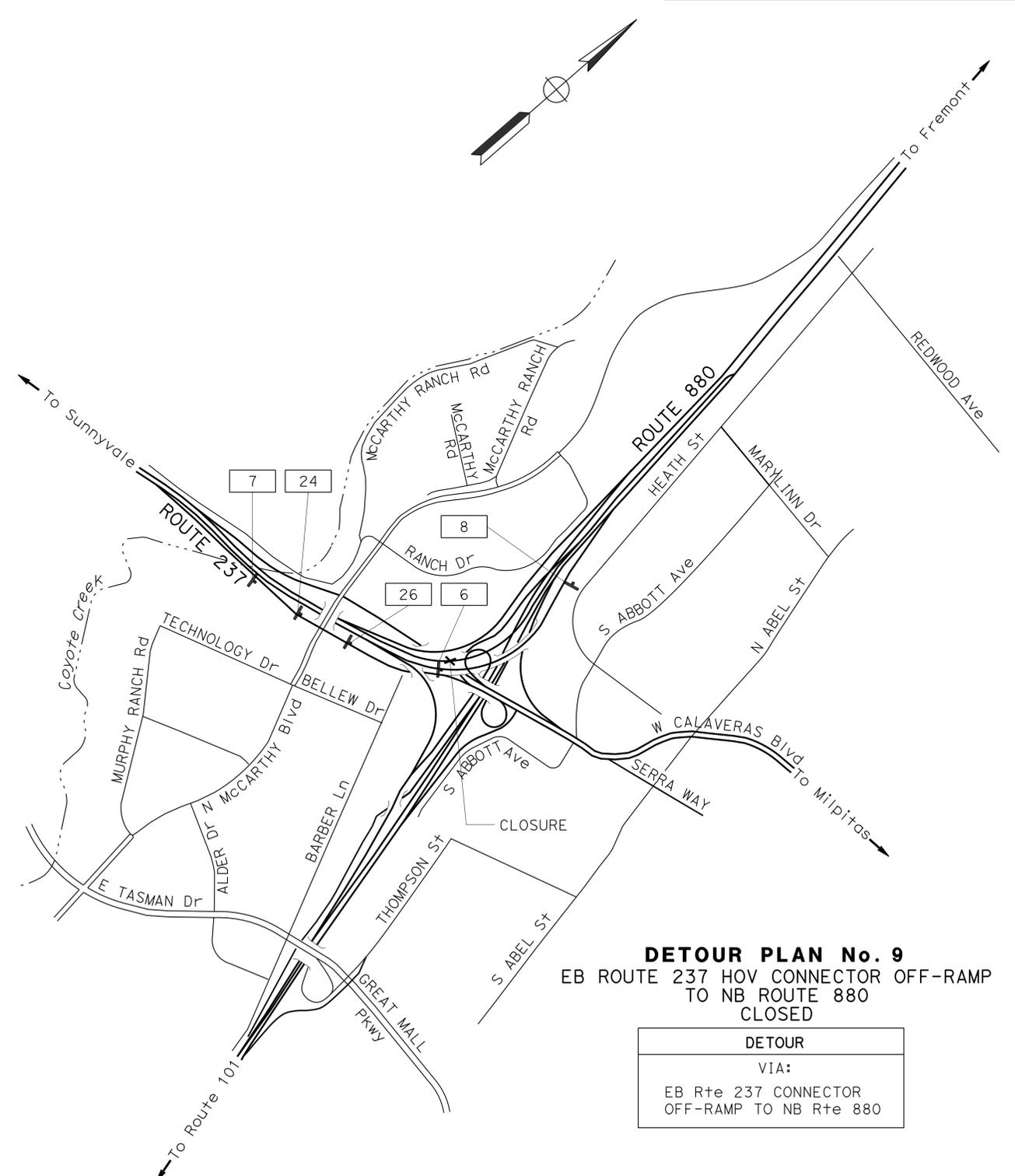
REGISTERED PROFESSIONAL ENGINEER
 Rajesh Oberoi
 No. 46046
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

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DETOUR PLAN No. 8
 EB ROUTE 237 CONNECTOR OFF-RAMP
 TO NB ROUTE 880
 CLOSED

DETOUR
VIA: EB Rte 237 HOV CONNECTOR OFF-RAMP TO NB Rte 880



DETOUR PLAN No. 9
 EB ROUTE 237 HOV CONNECTOR OFF-RAMP
 TO NB ROUTE 880
 CLOSED

DETOUR
VIA: EB Rte 237 CONNECTOR OFF-RAMP TO NB Rte 880

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS
 AND LEGEND, SEE SHEET CS-1

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-6

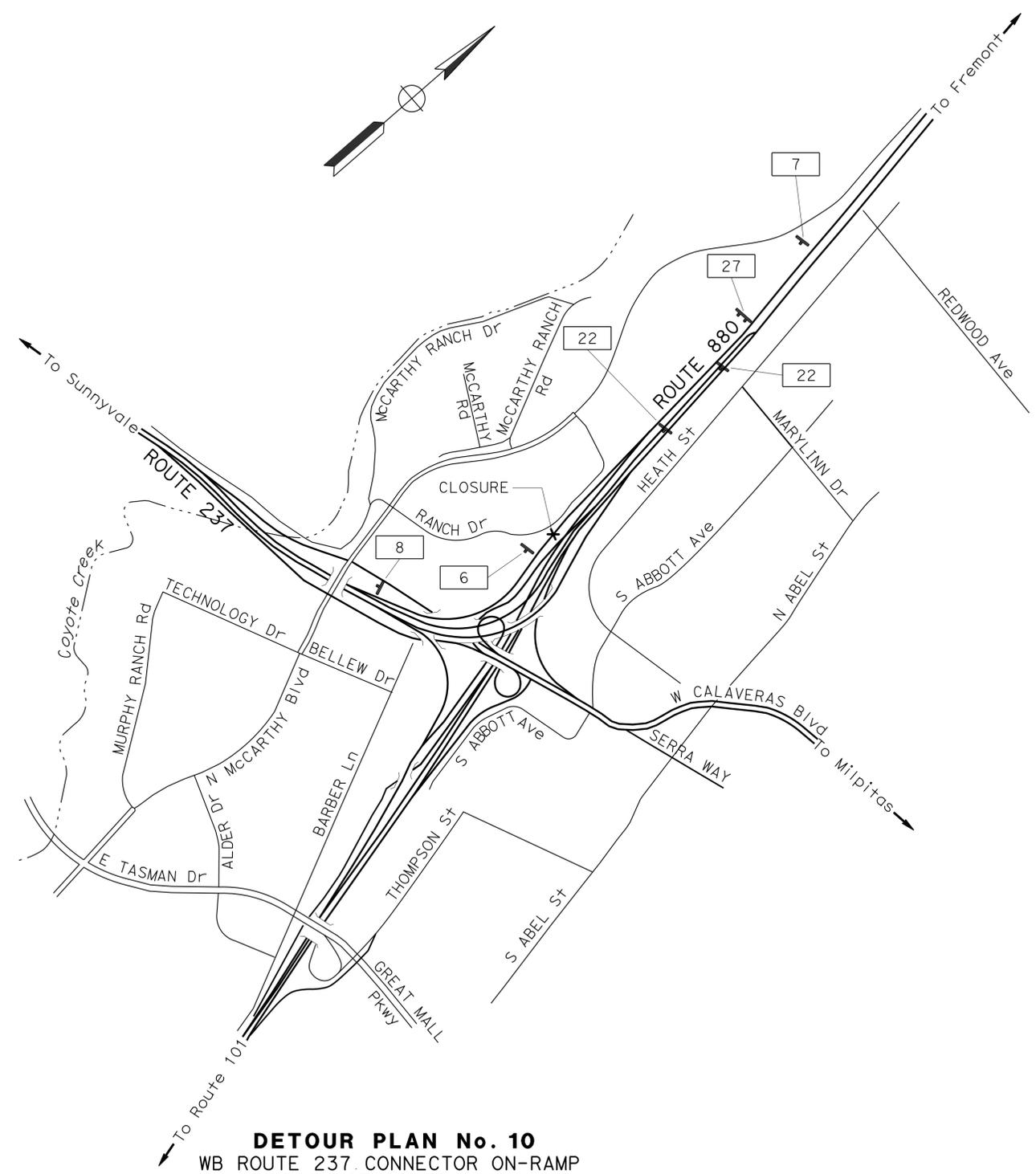
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	21	68

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Rajesh Oberoi
 No. 46046
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

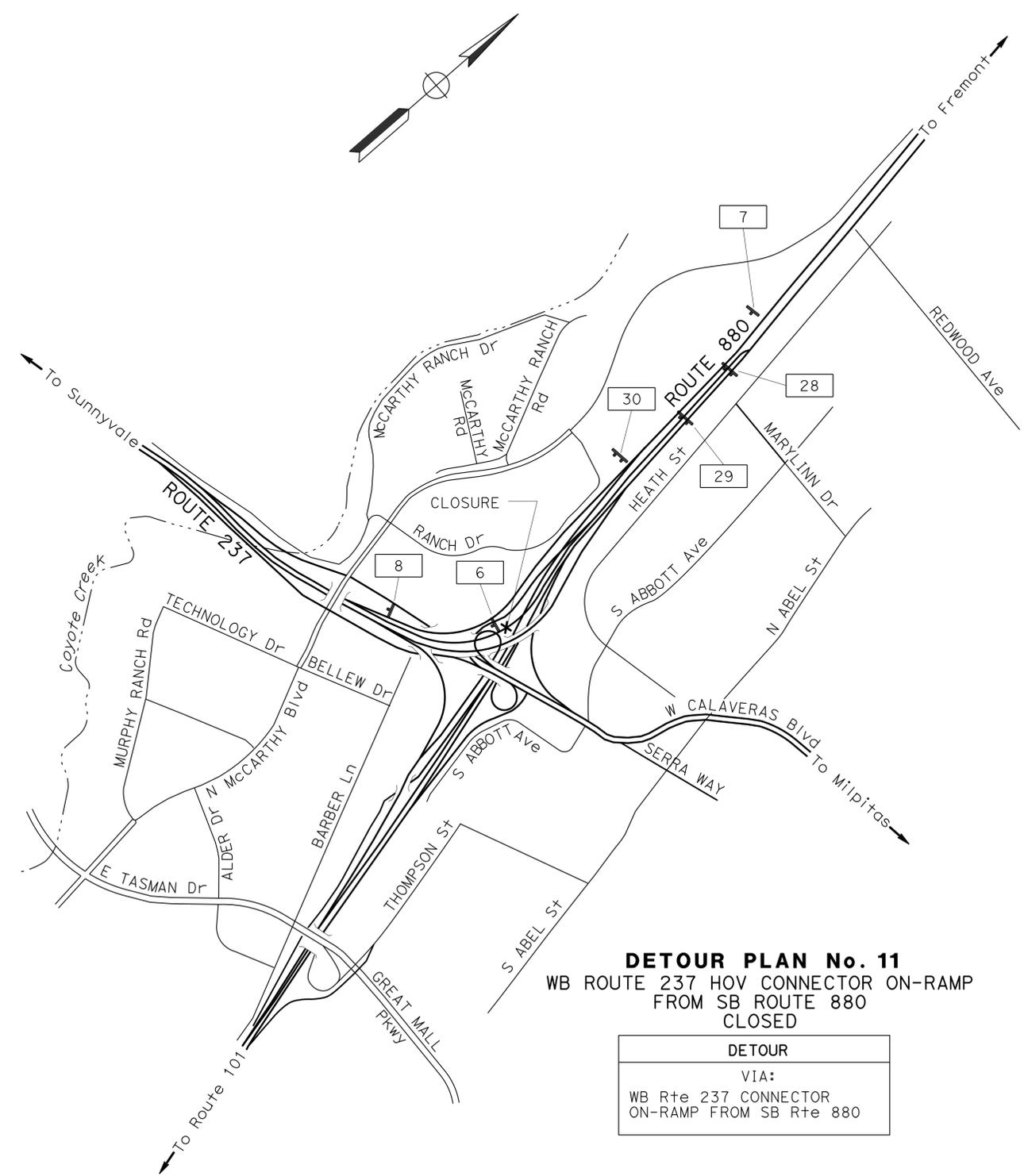
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	ROY YUAN	REVISOR	RY
Caltrans	RAJESH OBEROI	DATE REVISED	3-2-16
FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	
ROLAND AU-YEUNG			



DETOUR PLAN No. 10
 WB ROUTE 237 CONNECTOR ON-RAMP
 FROM SB ROUTE 880
 CLOSED

DETOUR
VIA: WB Rte 237 HOV CONNECTOR ON-RAMP TO SB Rte 880



DETOUR PLAN No. 11
 WB ROUTE 237 HOV CONNECTOR ON-RAMP
 FROM SB ROUTE 880
 CLOSED

DETOUR
VIA: WB Rte 237 CONNECTOR ON-RAMP FROM SB Rte 880

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

CONSTRUCTION AREA SIGNS

NO SCALE

CS-7

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE		SIGN MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
1	W20-1		ROAD WORK AHEAD	48" x 48"	(ONE) 4" x 6"	4
2	G20-2		END ROAD WORK	48" x 24"	(ONE) 4" x 4"	4
3	W20-1		ROAD WORK AHEAD	48" x 36"	(ONE) 4" x 6"	5
4	G20-2		END ROAD WORK	36" x 18"	(ONE) 4" x 4"	5
5		C40	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	72" x 36"	(TWO) 4" x 6"	2
6		SC6-4	RAMP CLOSED (DATE AND TIME)	48" x 60"	(ONE) 6" x 6"	11
7	W20-2		DETOUR AHEAD	48" x 48"	(ONE) 4" x 6"	16
8	M4-8a		END DETOUR	24" x 18"	(ONE) 4" x 4"	11
9		SC-3(↑)	DETOUR (STRAIGHT AHEAD ARROW)	48" x 18"	(ONE) 4" x 6"	6
		G28-2(237)	ROUTE SHIELD 237	28" x 25"		
10		M3-2	EAST	21" x 9"	(ONE) 4" x 6"	6
		M4-10(R+)	DETOUR (RIGHT)	48" x 18"		
11		G28-2(237)	ROUTE SHIELD 237	28" x 25"	(ONE) 4" x 6"	7
		M3-2	EAST	21" x 9"		
12		M4-8	DETOUR	21" x 9"	(ONE) 4" x 6"	5
		G28-2(237)	ROUTE SHIELD 237	28" x 25"		
13		M3-2	EAST	21" x 9"	(TWO) 4" x 4"	4
		M6-2(↘)	DETOUR (DIAGONAL ARROW)	21" x 15"		
14		M4-8	DETOUR	21" x 9"	(TWO) 4" x 4"	1
		SPECIAL 1	SEE SPECIAL 1	60" x 30"		
15		SC-3(↑)	DETOUR (STRAIGHT AHEAD ARROW)	48" x 18"	(TWO) 4" x 4"	2
		M6-2(↘)	DETOUR (DIAGONAL ARROW)	21" x 15"		
16		M4-8	DETOUR	21" x 9"	(ONE) 4" x 6"	1
		SPECIAL 1	SEE SPECIAL 1	60" x 30"		
17		M4-10(L+)	DETOUR (LEFT)	48" x 18"	(ONE) 4" x 6"	3
		SC-3(↑)	DETOUR (STRAIGHT AHEAD ARROW)	48" x 18"		
18		G27-2(880)	ROUTE SHIELD 880	30" x 25"	(ONE) 4" x 6"	3
		M3-3	SOUTH	21" x 9"		
19		M4-8	DETOUR	21" x 9"	(ONE) 4" x 6"	3
		G27-2(880)	ROUTE SHIELD 880	30" x 25"		
20		M3-3	SOUTH	21" x 9"	(ONE) 4" x 6"	3
		M6-2(↘)	DETOUR (DIAGONAL ARROW)	21" x 15"		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	22	68

Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

Rajesh Oberoi
 No. 46046
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

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SPEC 60" x 30"
 6" & 4 1/2"
McCarthy Blvd
 BLACK/ORANGE
SPECIAL 1

CONSTRUCTION AREA SIGNS

NO SCALE

CS-8

LAST REVISION DATE PLOTTED => 07-APR-2016 03-02-16 TIME PLOTTED => 11:31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 ROY YUAN
 RAJESH OBEROI
 REVISIONS: RY 3-2-16
 CALCULATED/DESIGNED BY: CHECKED BY:

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

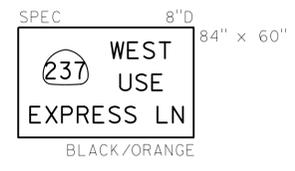
SIGN No.	SIGN CODE		SIGN MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
18	M4-8		DETOUR	21" x 9"	(ONE) 4" x 6"	1
		G27-2(880)	ROUTE SHIELD 880	30" x 25"		
	M3-3		SOUTH	21" x 9"		
19	M6-2(↖)		DETOUR (DIAGONAL ARROW)	21" x 15"	(ONE) 4" x 6"	4
		SC-3(↑)	DETOUR (STRAIGHT AHEAD ARROW)	48" x 18"		
		G28-2(237)	ROUTE SHIELD 237	28" x 25"		
20	M3-4		WEST	21" x 9"	(ONE) 4" x 6"	6
	M4-10(L+)		DETOUR (LEFT)	48" x 18"		
		G28-2(237)	ROUTE SHIELD 237	28" x 25"		
21	M3-4		WEST	21" x 9"	(ONE) 4" x 6"	2
	M4-8		DETOUR	21" x 9"		
		G28-2(237)	ROUTE SHIELD 237	28" x 25"		
22	M6-2(↗)		DETOUR (DIAGONAL ARROW)	21" x 15"	(ONE) 4" x 6"	3
	M4-8		DETOUR	21" x 9"		
		G28-2(237)	ROUTE SHIELD 237	28" x 25"		
23	M3-4		WEST	21" x 9"	(ONE) 4" x 6"	1
	M6-2(↖)		DETOUR (DIAGONAL ARROW)	21" x 15"		
	M4-10(R+)		DETOUR (RIGHT)	48" x 18"		
24		G28-2(237)	ROUTE SHIELD 237	28" x 25"	(ONE) 4" x 6"	2
	M3-4		WEST	21" x 9"		
		SC-3(↑)	DETOUR (STRAIGHT AHEAD ARROW)	48" x 18"		
25		G27-2(880)	ROUTE SHIELD 880	30" x 25"	(ONE) 4" x 6"	1
	M4-8		DETOUR	21" x 9"		
	M3-1		NORTH	21" x 9"		
26	M6-2(↖)		DETOUR (DIAGONAL ARROW)	21" x 15"	(ONE) 4" x 6"	1
	M4-8		DETOUR	21" x 9"		
		G27-2(880)	ROUTE SHIELD 880	30" x 25"		
27		SPECIAL 2	SEE SPECIAL 2	84" x 60"	(TWO) 6" x 6"	1
28		SPECIAL 3	SEE SPECIAL 3	48" x 42"	(TWO) 4" x 6"	1
29		SPECIAL 4	SEE SPECIAL 4	48" x 42"	(TWO) 4" x 6"	1
30		SPECIAL 5	SEE SPECIAL 5	48" x 42"	(TWO) 4" x 6"	1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	23	68

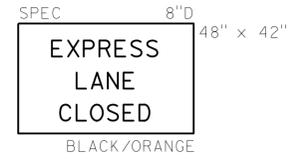
Rajesh Oberoi 3-2-16
 REGISTERED CIVIL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Rajesh Oberoi
 No. 46046
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

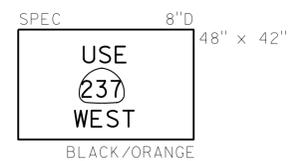
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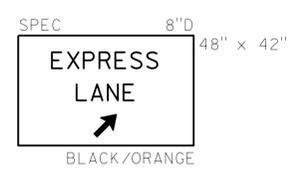
SPECIAL 2



SPECIAL 3



SPECIAL 4



SPECIAL 5

CONSTRUCTION AREA SIGNS

NO SCALE

CS-9

LAST REVISION DATE PLOTTED => 07-APR-2016 03-02-16 TIME PLOTTED => 11:31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: PAUL LEUNG
 CHECKED BY: RAMIEL GUTIERREZ
 REVISED BY: PL
 DATE REVISED: 11-6-15

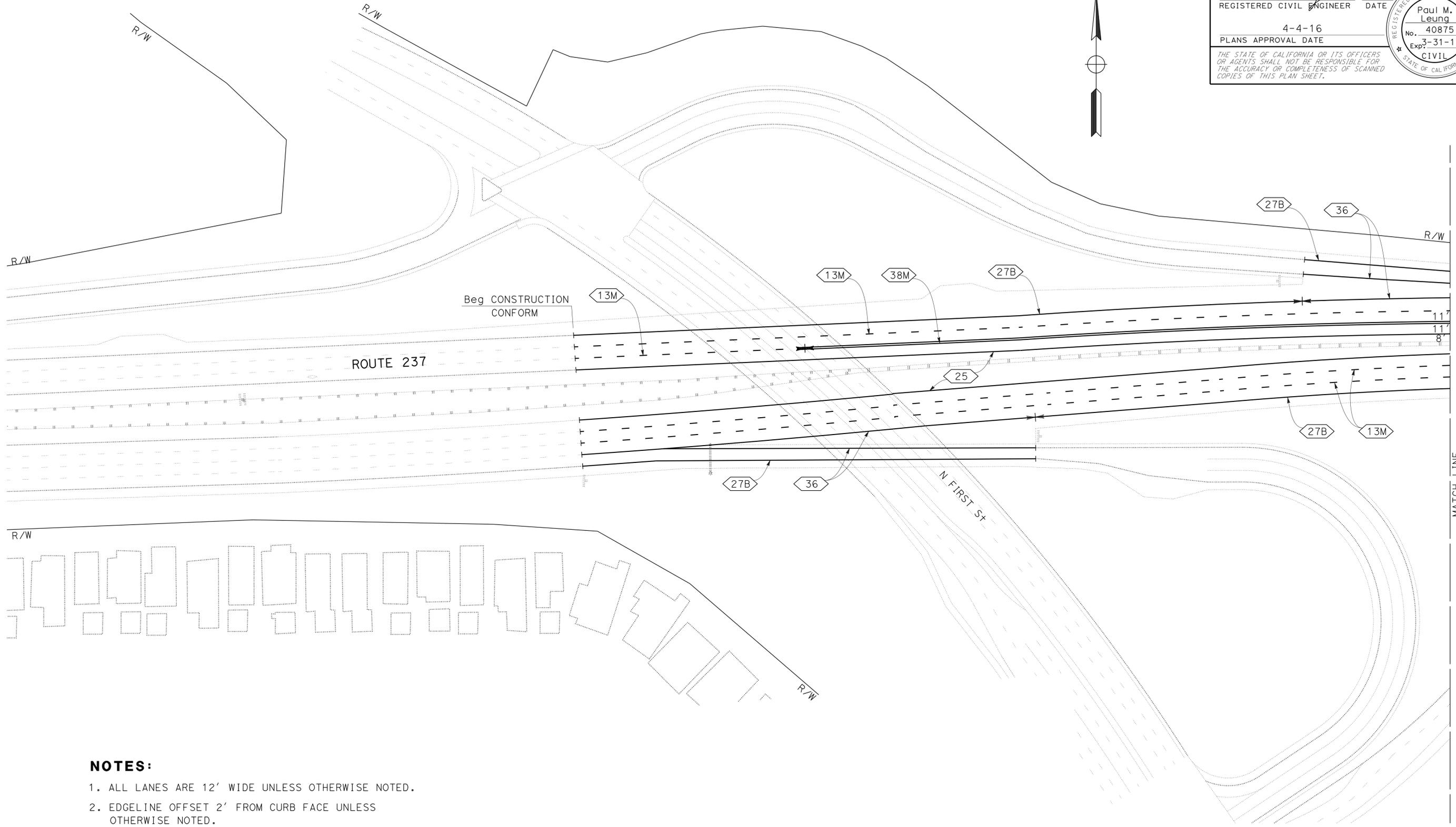
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	24	68

REGISTERED CIVIL ENGINEER: Paul M. Leung
 No. 40875
 Exp. 3-31-17
 CIVIL

DATE: 2-24-16
 PLANS APPROVAL DATE: 4-4-16

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- NOTES:**
1. ALL LANES ARE 12' WIDE UNLESS OTHERWISE NOTED.
 2. EDGELINE OFFSET 2' FROM CURB FACE UNLESS OTHERWISE NOTED.

LEGEND:
 CHANGE OF PAVEMENT DELINEATION DETAILS

PAVEMENT DELINEATION PLAN
 NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PD-1

LAST REVISION | DATE PLOTTED => 07-APR-2016
 11-16-15 TIME PLOTTED => 11:31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: PAUL LEUNG
 CHECKED BY: RAMIEL GUTIERREZ
 REVISED BY: PL
 DATE REVISED: 11-6-15

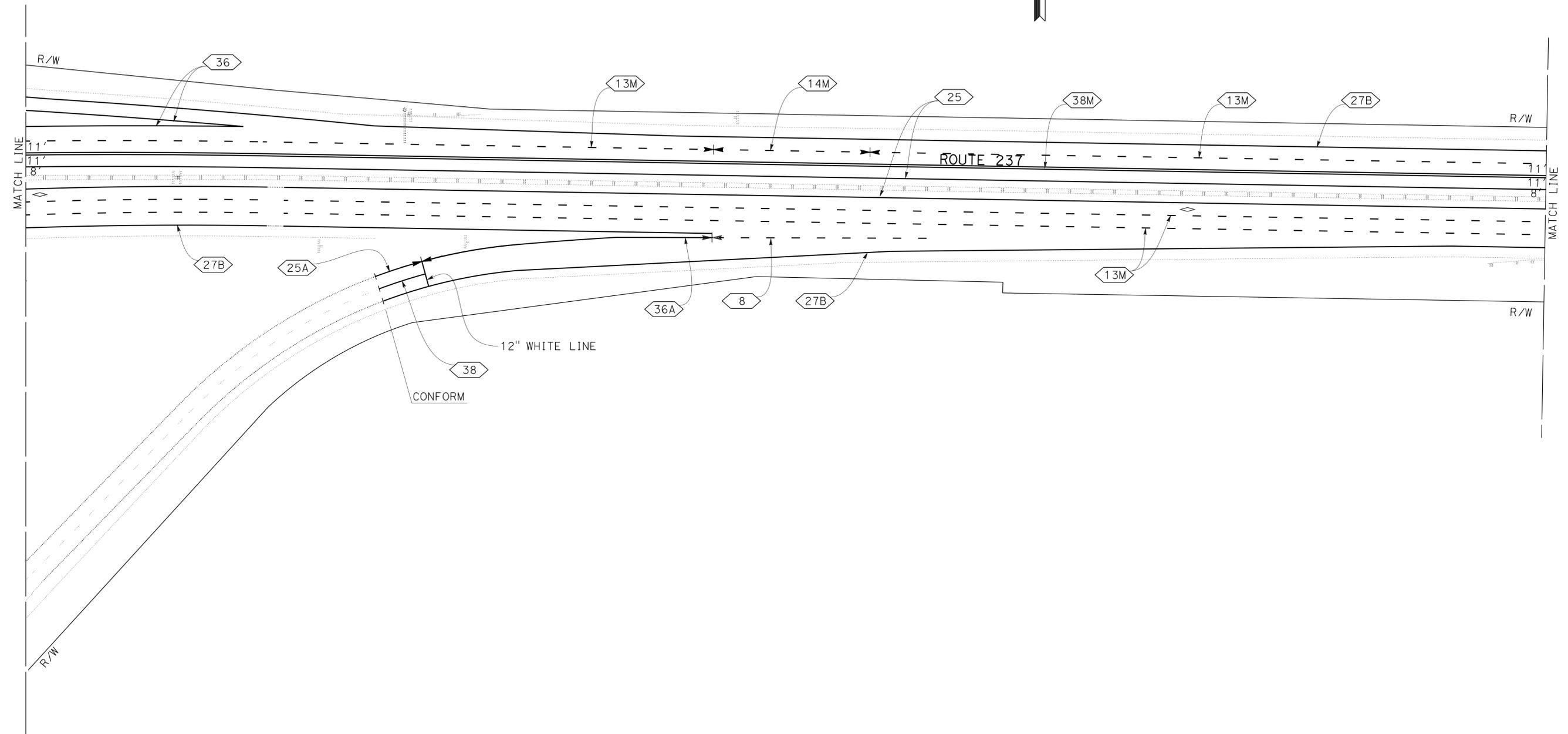
NOTE:
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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	25	68

REGISTERED CIVIL ENGINEER: *Paul M. Leung* DATE: 2-24-16
 PLANS APPROVAL DATE: 4-4-16

REGISTERED PROFESSIONAL ENGINEER
 Paul M. Leung
 No. 40875
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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PAVEMENT DELINEATION PLAN
 NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET PD-1

PD-2

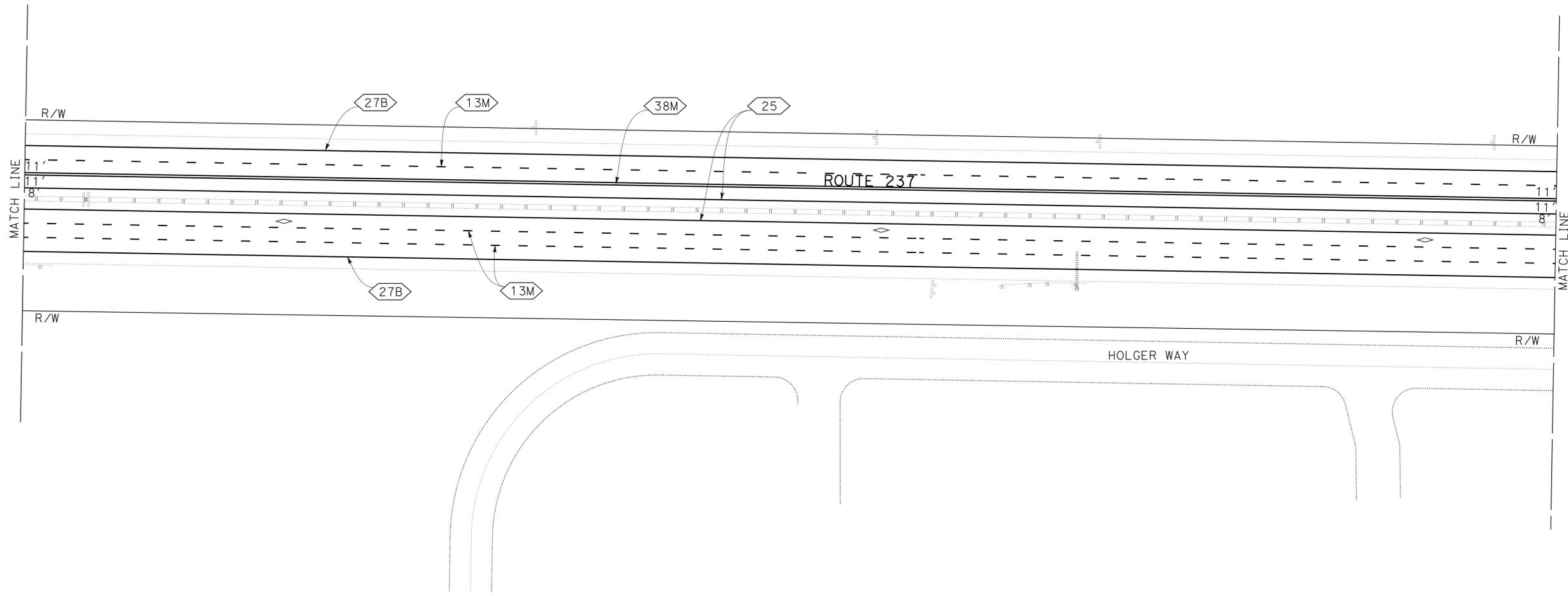
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	26	68

REGISTERED CIVIL ENGINEER DATE 2-24-16
 4-4-16
 PLANS APPROVAL DATE

Paul M. Leung
 No. 40875
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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PAVEMENT DELINEATION PLAN
 NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET PD-1

PD-3

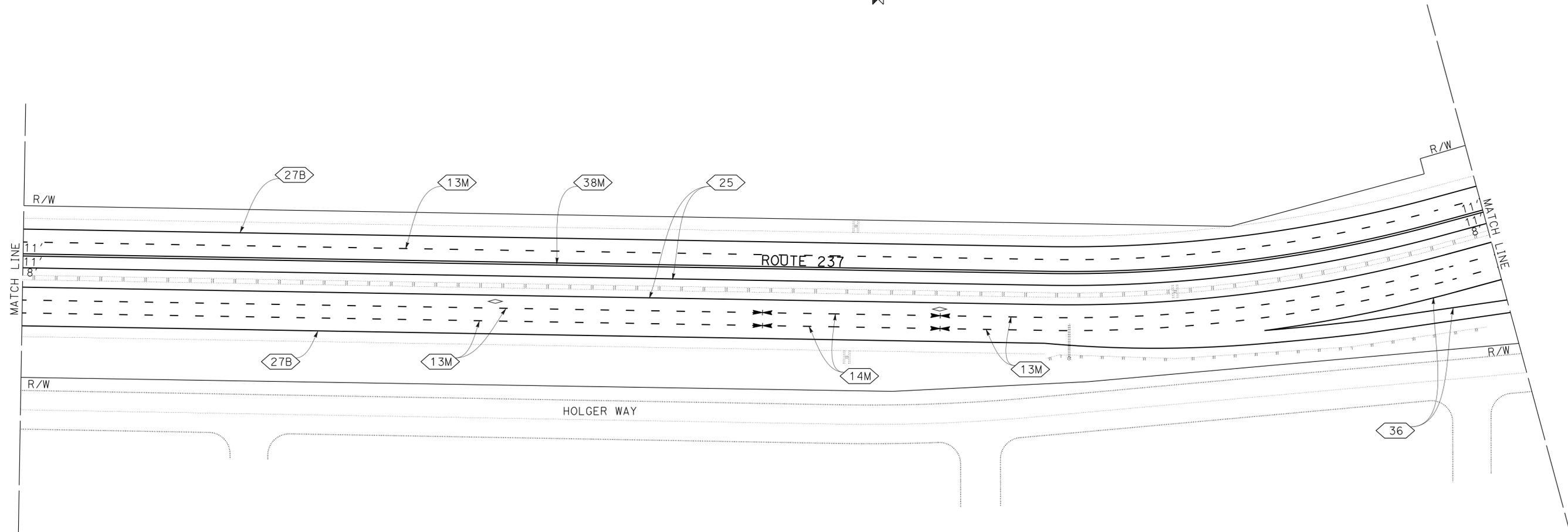
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: PAUL LEUNG
 CHECKED BY: RAMIEL GUTIERREZ
 REVISED BY: PL
 DATE REVISED: 11-6-15

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	27	68

REGISTERED CIVIL ENGINEER: *Paul M. Leung* DATE: 2-24-16
 PLANS APPROVAL DATE: 4-4-16
 No. 40875
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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PAVEMENT DELINEATION PLAN
 NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET PD-1

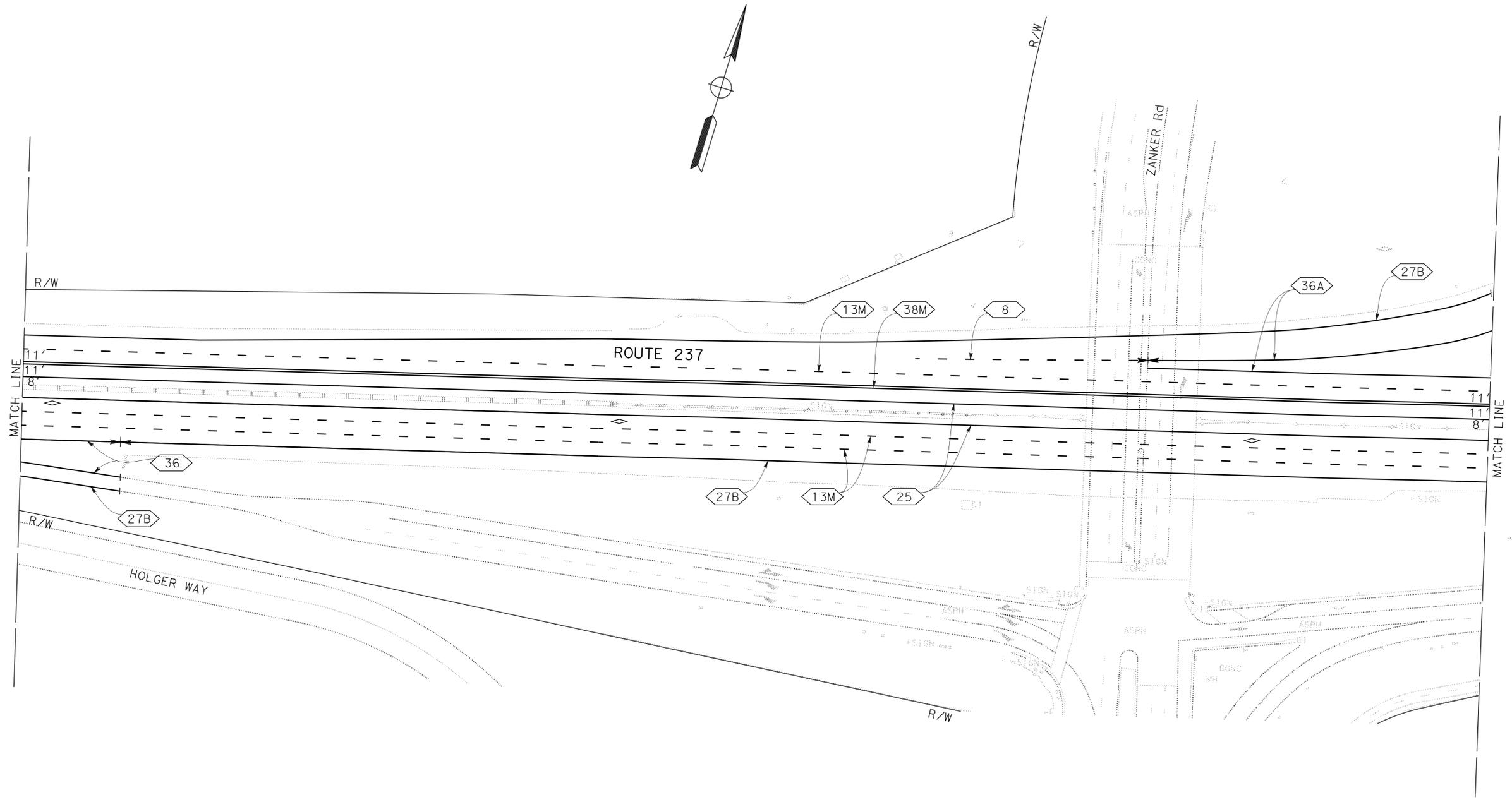
PD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: PAUL LEUNG
 CHECKED BY: RAMIEL GUTIERREZ
 REVISED BY: PL
 DATE REVISED: 11-6-15

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	28	68

REGISTERED CIVIL ENGINEER DATE: 2-24-16
 Paul M. Leung
 No. 40875
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE: 4-4-16
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PAVEMENT DELINEATION PLAN
 NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET PD-1

PD-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: PAUL LEUNG
 CHECKED BY: RAMIEL GUTIERREZ
 REVISED BY: PL
 DATE REVISED: 11-6-15

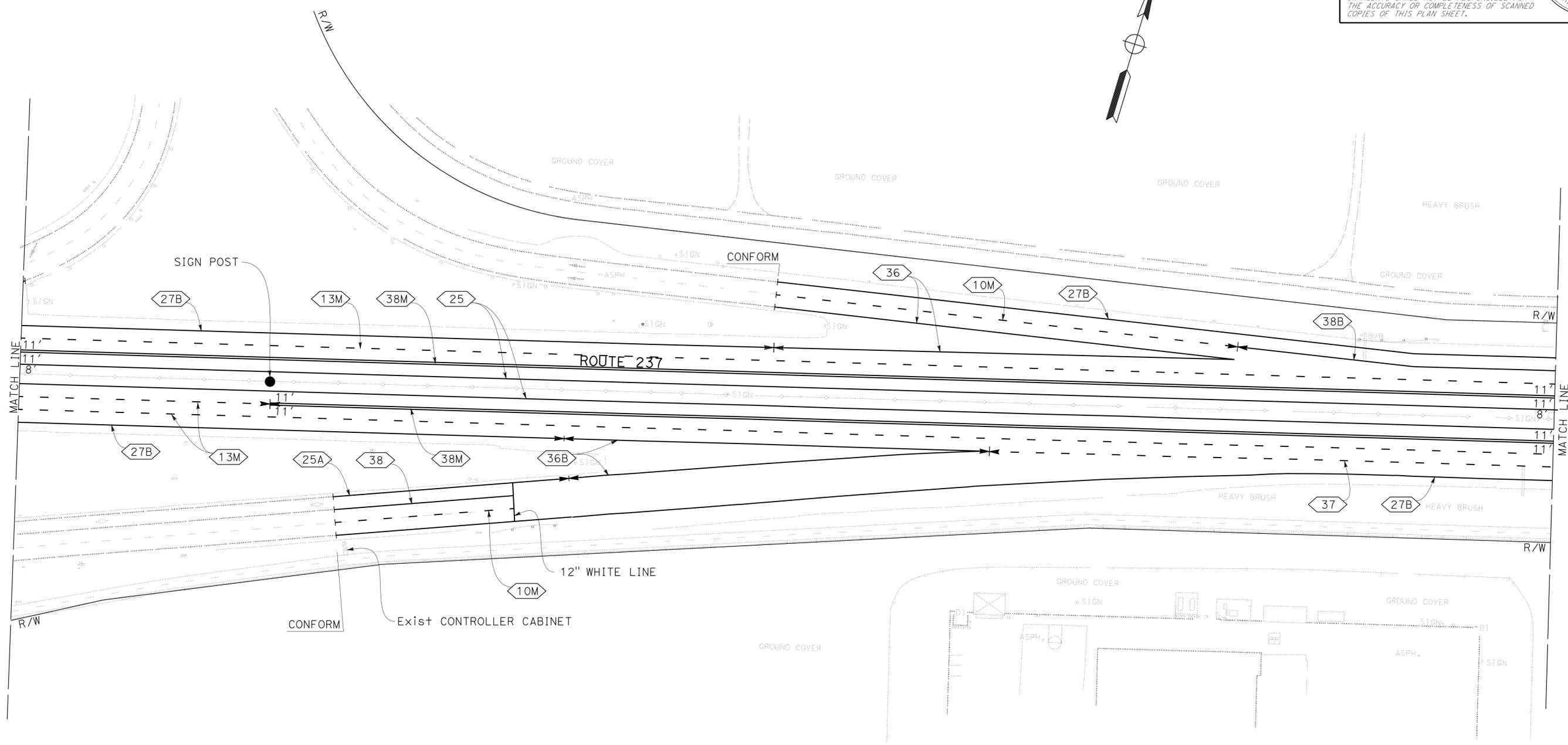
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	29	68

REGISTERED CIVIL ENGINEER: Paul M. Leung
 No. 40875
 Exp. 3-31-17
 CIVIL

DATE: 2-24-16
 PLANS APPROVAL DATE: 4-4-16

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PAVEMENT DELINEATION PLAN
 NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET PD-1

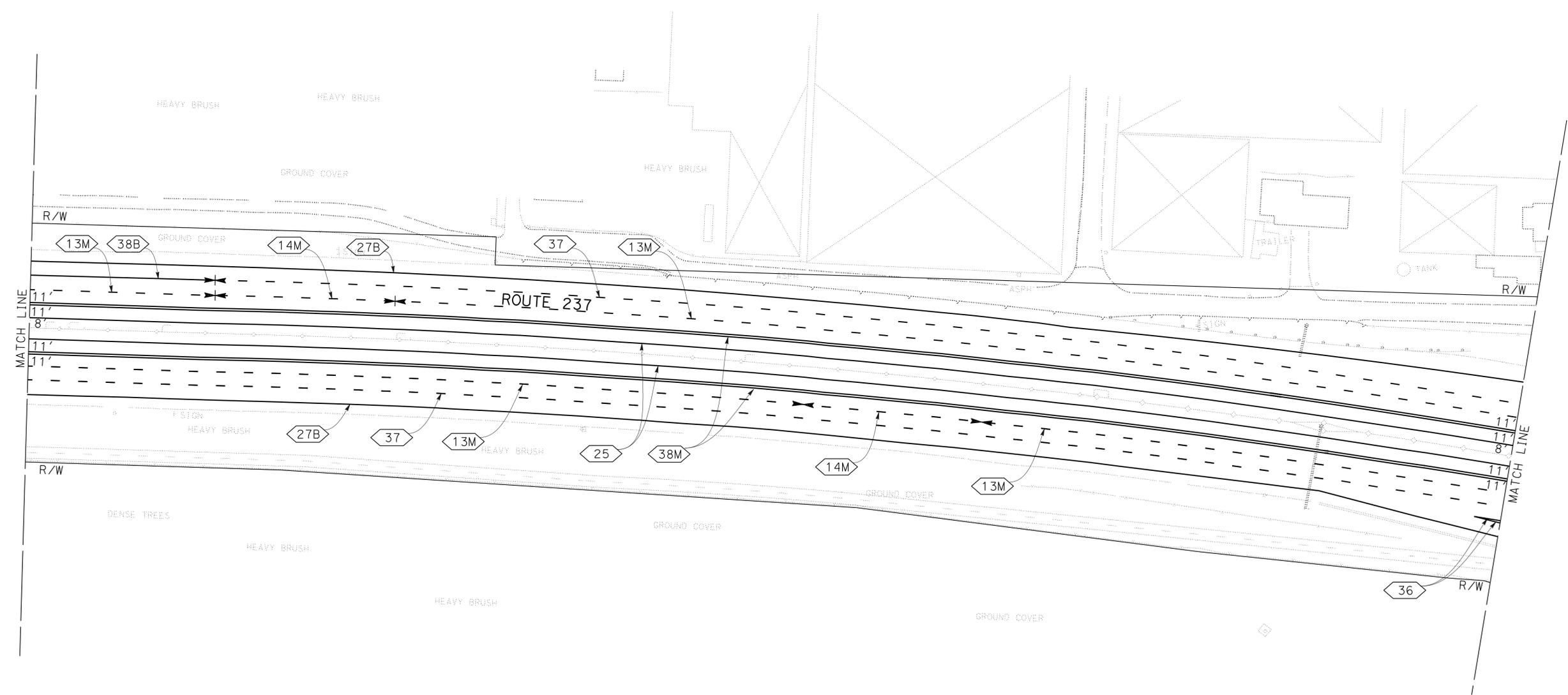
PD-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: PAUL LEUNG
 CHECKED BY: RAMIEL GUTIERREZ
 REVISED BY: PL
 DATE REVISED: 11-6-15

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	30	68

REGISTERED CIVIL ENGINEER: *Paul M. Leung* DATE: 2-24-16
 PLANS APPROVAL DATE: 4-4-16
 REGISTERED PROFESSIONAL ENGINEER: Paul M. Leung No. 40875 Exp. 3-31-17 CIVIL
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PAVEMENT DELINEATION PLAN
 NO SCALE

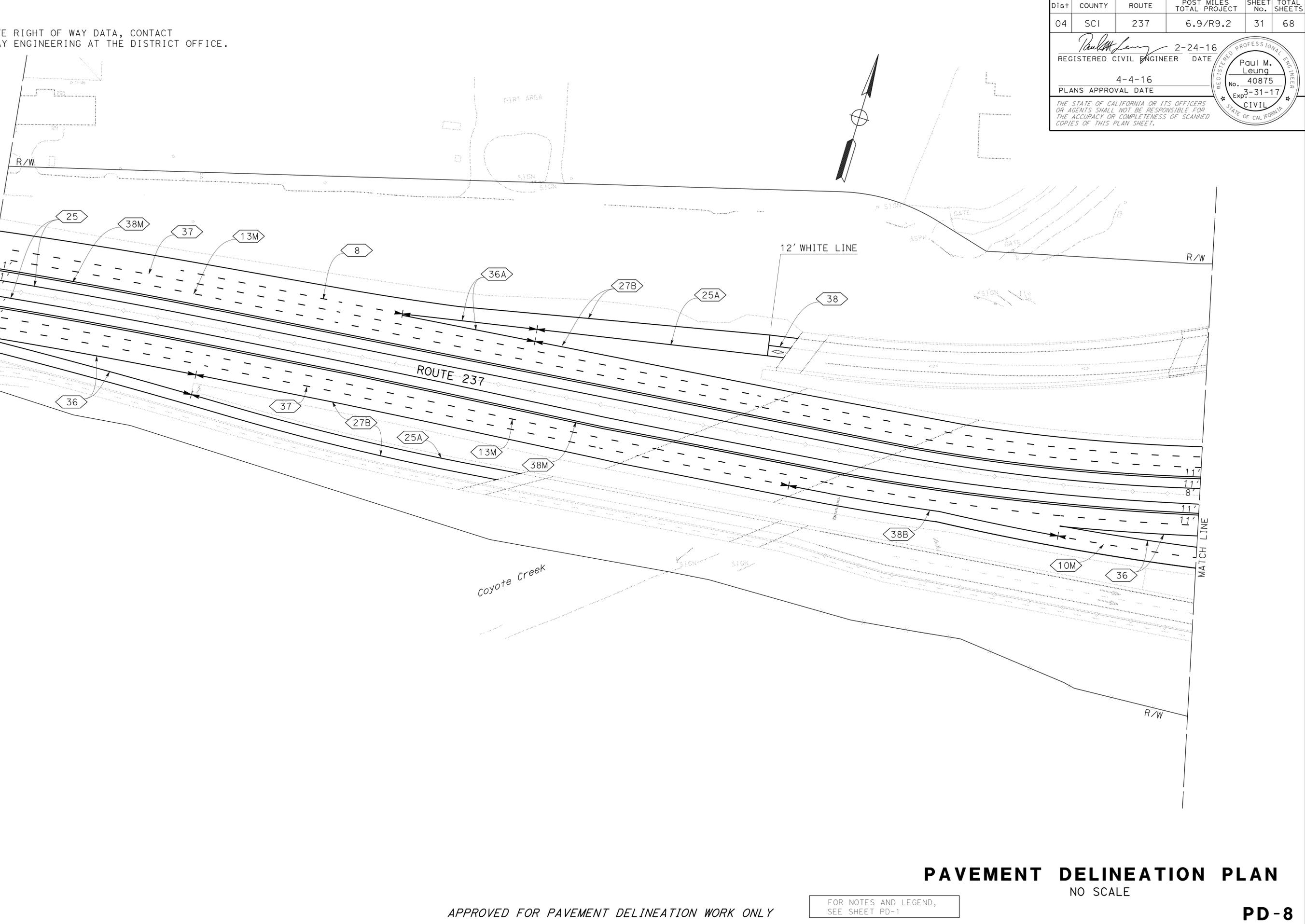
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FOR NOTES AND LEGEND,
 SEE SHEET PD-1

PD-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 TRAFFIC

PAUL LEUNG
 RAMIEL GUTIERREZ
 PL
 11-6-15
 REVISIONS: 11-6-15



NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	31	68

REGISTERED CIVIL ENGINEER: Paul M. Leung
 No. 40875
 Exp. 3-31-17
 CIVIL
 DATE: 2-24-16
 PLANS APPROVAL DATE: 4-4-16

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

PAVEMENT DELINEATION PLAN
 NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET PD-1

PD-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 TRAFFIC

PAUL LEUNG
 REVISOR: RAMIEL GUTIERREZ
 PL: 11-6-15

CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]

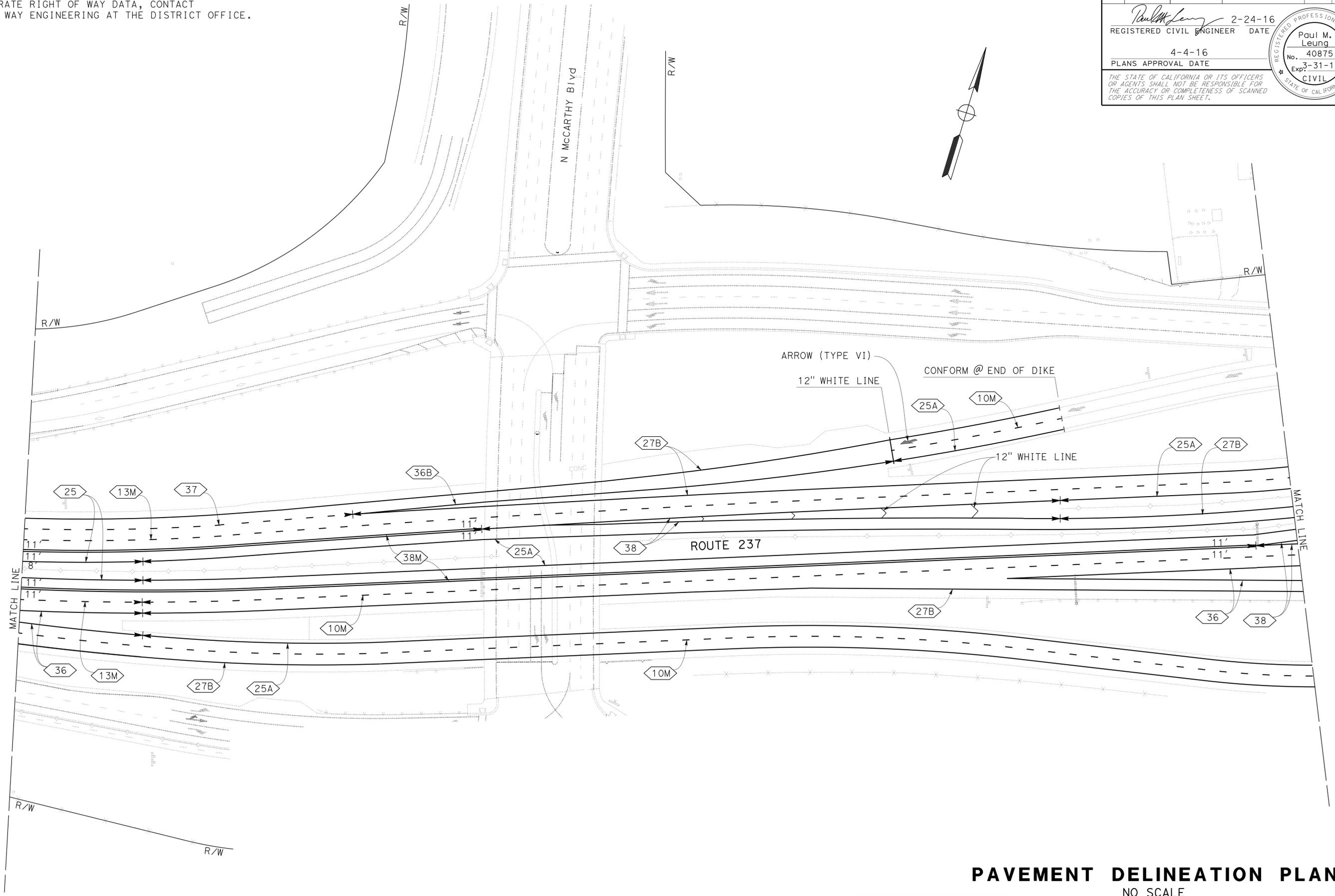
NOTE:
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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	32	68

REGISTERED CIVIL ENGINEER: *Paul M. Leung*
 DATE: 2-24-16
 PLANS APPROVAL DATE: 4-4-16

REGISTERED PROFESSIONAL ENGINEER
 Paul M. Leung
 No. 40875
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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PAVEMENT DELINEATION PLAN
 NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET PD-1

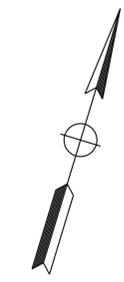
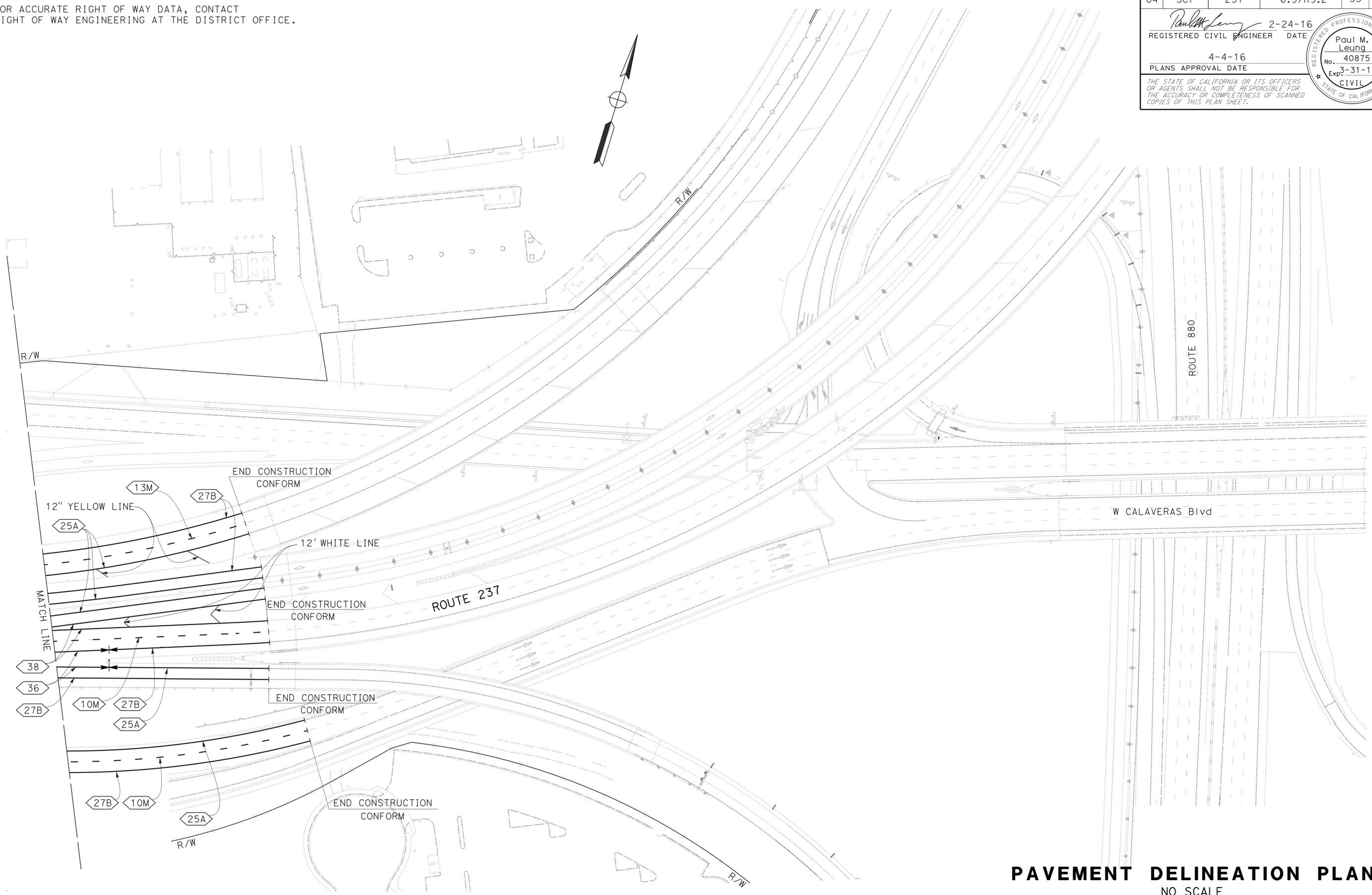
PD-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: PAUL LEUNG
 CHECKED BY: RAMIEL GUTIERREZ
 REVISED BY: PL
 DATE REVISED: 11-6-15

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	33	68

REGISTERED CIVIL ENGINEER DATE: 2-24-16
 PLANS APPROVAL DATE: 4-4-16
 REGISTERED PROFESSIONAL ENGINEER
 Paul M. Leung
 No. 40875
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

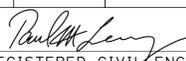


PAVEMENT DELINEATION PLAN
 NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET PD-1

PD-10

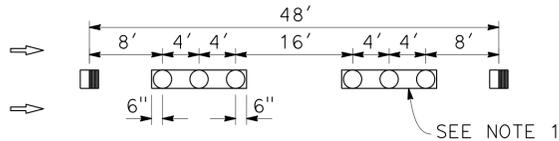
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	34	68
 REGISTERED CIVIL ENGINEER			DATE	2-24-16	
PLANS APPROVAL DATE			DATE	4-4-16	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
					

NOTES:

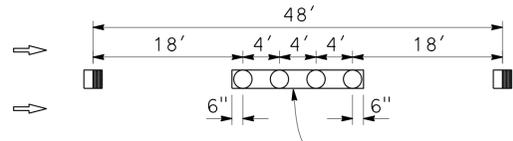
- INSTALL 4" WHITE AFTER INSTALLING PAVEMENT MARKERS.
- DETAIL 14M TO BE USED IN COMBINATION WITH DETAIL 13M.
- ALL EXISTING PAVEMENT DELINEATIONS SHALL BE REPLACED IN KIND UNLESS AS SPECIFIED IN TABLE "TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS (UPGRADES AT SELECTED LOCATIONS)".

LEGEND:

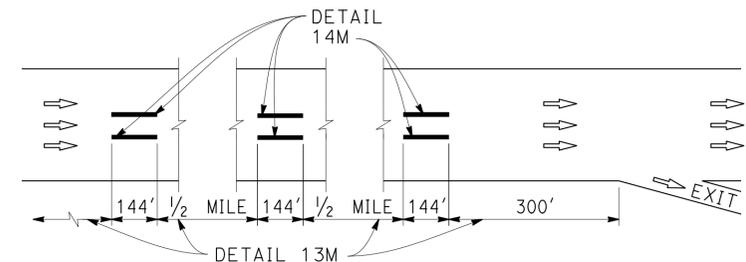
-  TYPE A WHITE NON-REFLECTIVE MARKER
-  TYPE C RED-CLEAR RETROREFLECTIVE MARKER
-  TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
-  4" WHITE LINE
-  8" WHITE LINE



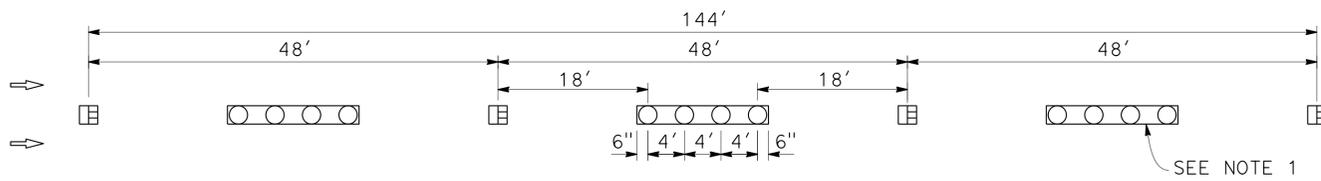
DETAIL 10M



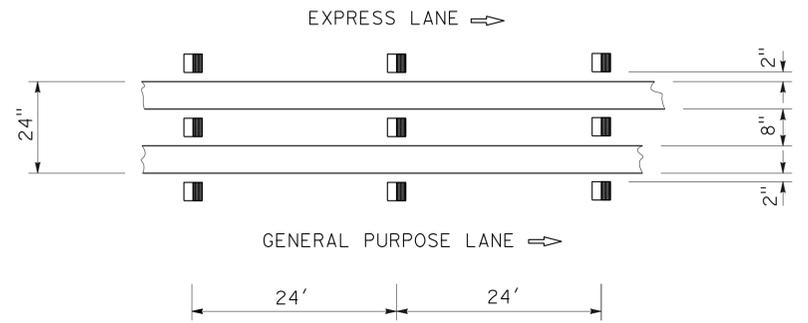
DETAIL 13M



**TYPICAL LANE LINE DELINEATION
IN ADVANCE OF EXIT RAMP**



DETAIL 14M



DETAIL 38M

PAVEMENT DELINEATION DETAILS
NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 PAUL LEUNG
 RAMIEL GUTIERREZ
 PL
 11-6-15
 REVISIONS: 11-18-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	35	68

 2-17-16
 REGISTERED CIVIL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Steven S. Lee
 No. 80370
 Exp. 3-31-17
 CIVIL
 STATE OF CALIFORNIA

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TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

DIRECTION	LOCATION	PM	DETAIL No. /DESCRIPTION	THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)						PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)					
				4" WHITE	4" YELLOW	4" WHITE (BROKEN 17-7)	4" WHITE (BROKEN 35-13)	8" WHITE	8" WHITE (BROKEN 12-3)	NON-REFLECTIVE TYPE A	RETROREFLECTIVE			WHITE	YELLOW				
											TYPE C	TYPE G	TYPE H						
				LF						EA				SQ FT					
EB	BEGIN CONSTRUCTION (N FIRST St OC) TO ZANKER RD OC	6.9/8.0	8			214													
			13M				11692			976		244							
			14M				288			24		8							
			25		5990									126					
			27B	5990															
			36					1400					60						
			36A	272				272					12						
			38B					90					10						
			DIAMOND SYMBOL (9 EA) LIMIT LINES														99		
																	24		
	ZANKER Rd OC TO COYOTE CREEK UC	8.0/8.7	10M			120				15		3							
			13M				4306			356		90							
			14M				144			12		4							
			25		3900									82					
			25A		616									27					
			27B	4516															
			36					548					26						
			36A	277				277					13						
			37										4						
			38					120		2808			186						
	38M					6700					423								
	DIAMOND SYMBOL (1 EA) LIMIT LINES														11				
															36				
	COYOTE CREEK UC TO END CONSTRUCTION	8.7/R9.2	10M			3338				420		72							
			13M				620			52		14							
			25		620									14					
			25A		3238									138					
			27B	4128															
			36					1332					56						
			38					540					24						
38B							306					28							
38M					3720					234									
LIMIT LINES														28					
SUBTOTAL (EASTBOUND)				15183	14364	3672	17050	15305	2808	1855	198	1319	387	198					
TOTAL (EASTBOUND)				29547		3672	17050	15305	2808	1855	1904		198						

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: STEVEN S. LEE
 CHECKED BY: SHERRY HUANG
 REVISED BY: SL
 DATE REVISED: 12-4-15

PAVEMENT DELINEATION QUANTITIES

PDQ-1

LAST REVISION | DATE PLOTTED => 07-APR-2016
 01-21-16 | TIME PLOTTED => 11:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	36	68

2-17-16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

Steven S. Lee
No. 80370
Exp. 3-31-17
CIVIL

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TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

DIRECTION	LOCATION	PM	DETAIL No. /DESCRIPTION	THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)						PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)				
				4" WHITE	4" YELLOW	4" WHITE (BROKEN 17-7)	4" WHITE (BROKEN 35-13)	8" WHITE	8" WHITE (BROKEN 12-3)	NON-REFLECTIVE TYPE A	RETROREFLECTIVE			WHITE	YELLOW			
											TYPE C	TYPE G	TYPE H					
				LF						EA				SQFT				
WB	BEGIN CONSTRUCTION (N FIRST ST OC) TO ZANKER RD OC	6.9/8.0	8			300												
			13M				5846				348		117					
			14M				144				12	4						
			25		5990									126				
			27B	5990														
			36					720						32				
	ZANKER Rd OC TO COYOTE CREEK UC	8.0/8.7	38M				17250						723					
			8			144												
			10M			380					48		9					
			13M					3756			312		78					
			14M					144			12	4						
			25		3900									82				
			25A		528									22				
			27B	4428														
			36					760						34				
			36A	960				445						20				
			37											2				
			38					70		2140			142	4				
			38B					436						38				
			38M					11700						492				
	LIMIT LINE DIAMOND SYMBOL (1 EA)														24	11		
	COYOTE CREEK UC TO END CONSTRUCTION	8.7/R9.2	10M			176							21		4			
			13M					2120					176		45			
			25		620										14			
			25A		2172										93			
			27B	2792														
			36B	608														
			37					608						25				
			38					1130		760			48	2				
	38M					3150						135						
TYPE VI (L) ARROW (1 EA)														42				
LIMIT LINE														86	40			
SUBTOTAL (WESTBOUND)				14778	13210	1000	12010	36269	2900	929	198	1808	337	163	40			
TOTAL (WESTBOUND)					27988	1000	12010	36269	2900	929		2343			203			
TOTAL (EASTBOUND)				29547		3672	17050	15305	2808	1855		1904			198			
GRAND TOTAL (PDQ-1, PDQ-2)				57535		4672	29060	51574	5708	2784		4247			401			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR
RAMSES SARGISS
CALCULATED/DESIGNED BY
CHECKED BY
STEVEN S. LEE
SHERRY HUANG
REVISOR BY
DATE REVISED
SL
12-4-15

**PAVEMENT DELINEATION
QUANTITIES
PDQ-2**

LAST REVISION | DATE PLOTTED => 07-APR-2016
01-21-16 | TIME PLOTTED => 11:31

ABBREVIATION:

RHMA-G RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

NOTE:

1. EXACT LOCATIONS AND DIMENSIONS OF COLD PLANE ASPHALT PAVEMENT (FAILED AREA) WILL BE DETERMINED BY THE ENGINEER.

COLD PLANE ASPHALT PAVEMENT (FAILED AREA)

DIRECTION	LOCATION (PM)	LANE No. 1	LANE No. 2	LANE No. 3	LANE No. 4	SHOULDER	RAMP	COLD PLANE AC PAVEMENT (FAILED AREA) DEPTH 0.5'	HOT MIX ASPHALT (TYPE A)	TACK COAT
								* SQYD	* TON	* TON
EB	6.9 TO 8.7			X				266.7	90	0.1
						X		200	67.5	0.1
		X						133.3	45	0.1
			X					100	33.8	0.1
				X				66.7	22.5	0.1
		X						200	67.5	0.1
	8.7 TO R9.2	X						333.3	112.5	0.2
		X						266.7	90	0.1
					X	X		333.3	112.5	0.2
					X			133.3	45	0.1
		X						266.7	90	0.1
							X	133.3	45	0.1
WB	6.9 TO 8.7			X				133.3	45	0.1
						X		100	33.8	0.1
					X		X	233.3	78.8	0.1
					X		X	311.1	105	0.1
		X						133.3	45	0.1
					X		X	194.4	65.6	0.1
		X						133.3	45	0.1
			X					133.3	45	0.1
		X				X		200	67.5	0.1
	8.7 TO R9.2							100	33.8	0.1
					X			133.3	45	0.1
		X					X	133.3	45	0.1
								300	101.3	0.1
							X	133.3	45	0.1
					X			133.3	45	0.1
						X		66.7	22.5	0.1
		X				X		100	33.8	0.1
		X						133.3	45	0.1
TOTAL								6405.1	2162.3	4

* QUANTITIES ARE INCLUDED IN SUMMARY OF QUANTITIES TABLE

SUMMARY OF QUANTITIES

LOCATION	AREA SQFT (N)	0.1' COLD PLANE AC PAVEMENT	0.5' COLD PLANE AC PAVEMENT	RHMA-G	HOT MIX ASPHALT (TYPE A) TON	TACK COAT
		SQYD				
EASTBOUND						
N FIRST ST TO COYOTE CREEK	645100	71700	966.7	4900	326.3	31
COYOTE CREEK TO ROUTE 880	200300	22300	1733.3	1600	625	22
SUBTOTAL		96700		6500	951.3	53
WESTBOUND						
N FIRST ST TO COYOTE CREEK	639300	71000	2205.2	4800	744.5	31
COYOTE CREEK TO ROUTE 880	89900	10000	1499.9	700	566.5	11
SUBTOTAL		84705.1		5500	1311	42
TOTAL		181405.1		12000	2262.3	95

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

SHOULDER BACKING

DIRECTION	LENGTH	WIDTH	DEPTH	TON
EASTBOUND	10000	2	0.1	73
WESTBOUND	10000	2	0.1	73
TOTAL				146

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

HMA DIKE

DIRECTION	REMOVE AC DIKE	PLACE HOT MIX ASPHALT DIKE			HMA (TYPE A) *
		TYPE C	TYPE E	TYPE F	
					TON
EASTBOUND	1800	100	1200	500	40
WESTBOUND	3300		2800	500	60
TOTAL		5100	4000	1000	100

* QUANTITIES ARE INCLUDED IN SUMMARY OF QUANTITIES TABLE

SUMMARY OF QUANTITIES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL

FUNCTIONAL SUPERVISOR: BEHZAD GOLENOHAMMADI
 CHECKED BY: MICHELLE CHAN
 DESIGNED BY: KENNETH XU
 REVISIONS: MC 9-28-15

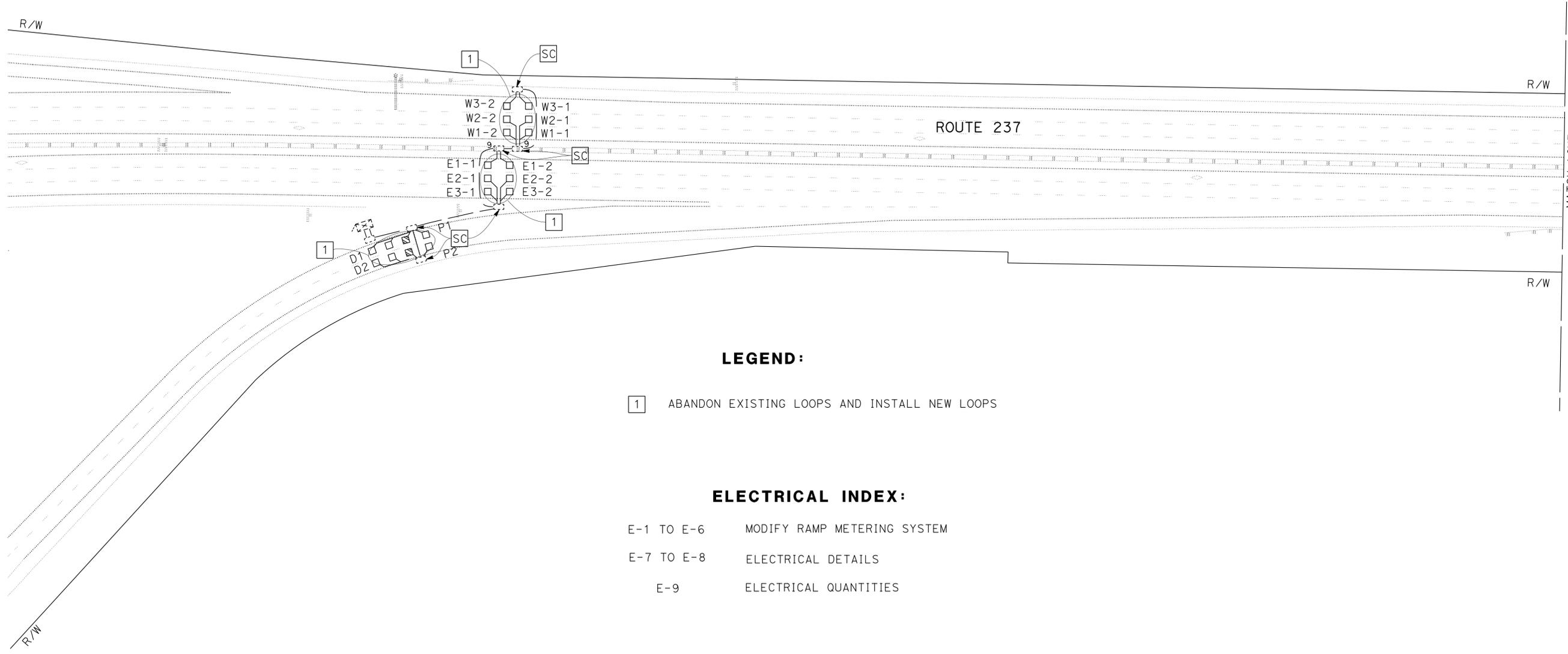
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 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	38	68

REGISTERED ELECTRICAL ENGINEER: Kenneth Y. Xu
 DATE: 2-18-16
 PLANS APPROVAL DATE: 4-4-16

REGISTERED PROFESSIONAL ENGINEER
 Kenneth Y. Xu
 No. 15219
 Exp. 6-30-16
 ELECTRICAL
 STATE OF CALIFORNIA

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LEGEND:

1 ABANDON EXISTING LOOPS AND INSTALL NEW LOOPS

ELECTRICAL INDEX:

- E-1 TO E-6 MODIFY RAMP METERING SYSTEM
- E-7 TO E-8 ELECTRICAL DETAILS
- E-9 ELECTRICAL QUANTITIES

MODIFY RAMP METERING SYSTEM

NO SCALE

E-1

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL

FUNCTIONAL SUPERVISOR
 BEHZAD COLENOHAMMADI

CALCULATED/DESIGNED BY
 CHECKED BY

MICHELLE CHAN
 KENNETH XU

REVISED BY
 DATE REVISED

MC
 9-28-15

NOTE:
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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

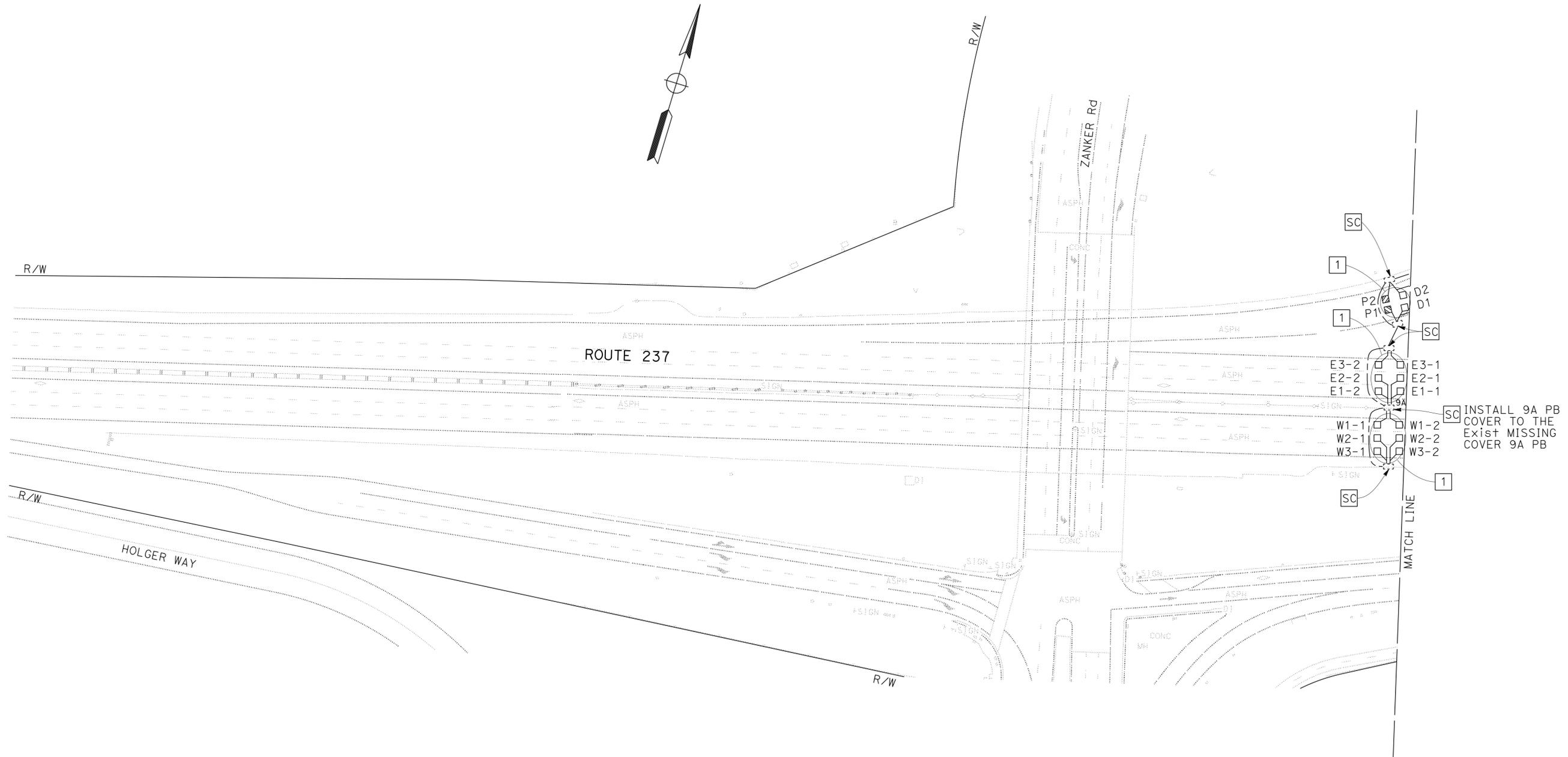
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	39	68

Kenneth Y. Xu 2-18-16
 REGISTERED ELECTRICAL ENGINEER DATE

4-4-16
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Kenneth Y. Xu
 No. 15219
 Exp. 6-30-16
 ELECTRICAL
 STATE OF CALIFORNIA



MODIFY RAMP METERING SYSTEM

NO SCALE

E-2

APPROVED FOR ELECTRICAL WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL

FUNCTIONAL SUPERVISOR: BEHZAD COLENOHAMMADI
 CHECKED BY: MICHELLE CHAN
 DESIGNED BY: BEHZAD COLENOHAMMADI
 REVISIONS: MC 9-28-15

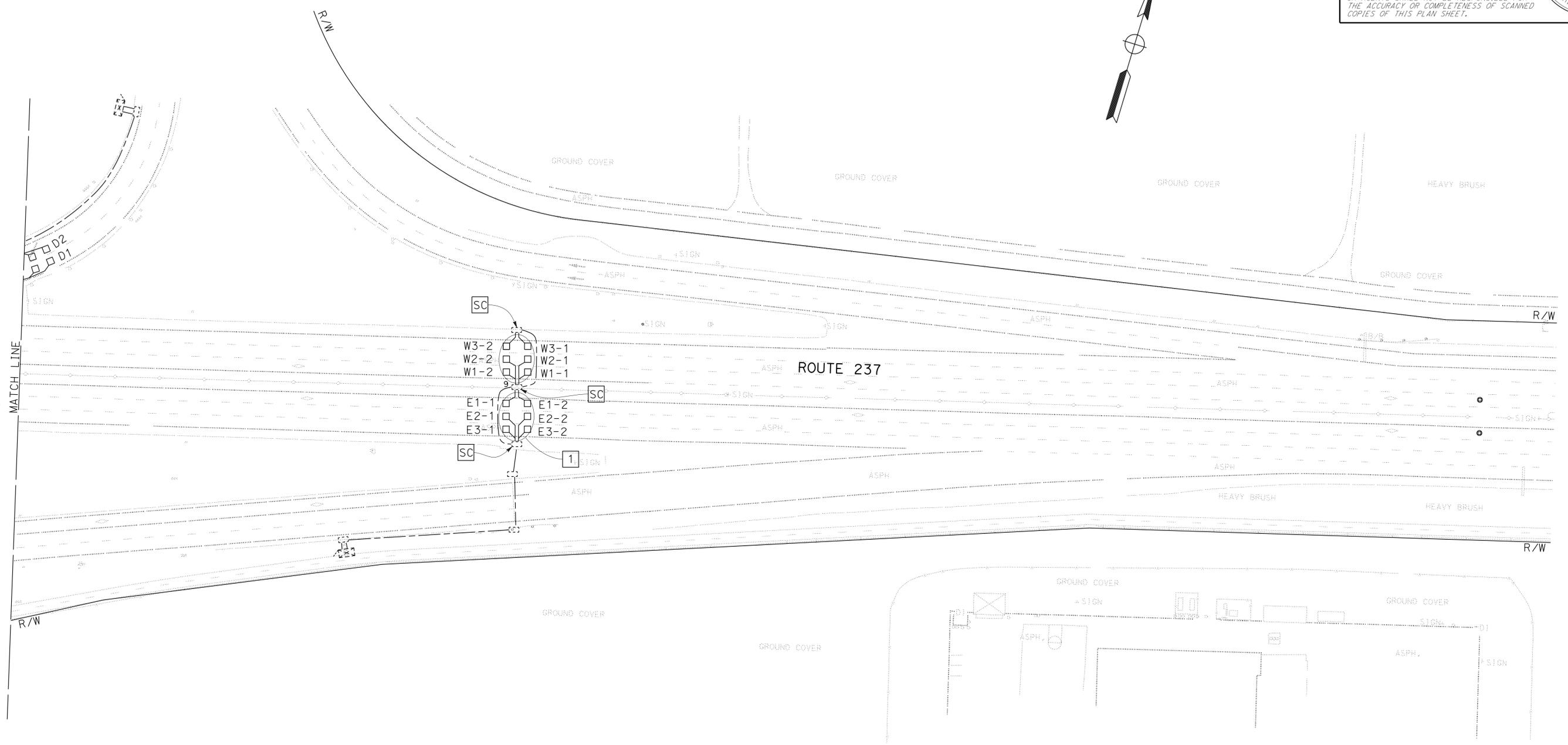
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	40	68

REGISTERED ELECTRICAL ENGINEER: Kenneth Y. Xu
 DATE: 2-18-16
 PLANS APPROVAL DATE: 4-4-16

Professional Engineer Seal: Kenneth Y. Xu, No. 15219, Exp. 6-30-16, STATE OF CALIFORNIA, ELECTRICAL

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MODIFY RAMP METERING SYSTEM

NO SCALE

E-3

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL

FUNCTIONAL SUPERVISOR
 BEHZAD COLENOHAMMADI

CALCULATED-DESIGNED BY
 CHECKED BY

MICHELLE CHAN
 KENNETH XU

REVISED BY
 DATE REVISED

MC
 9-28-15

NOTE:
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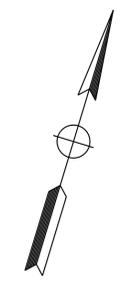
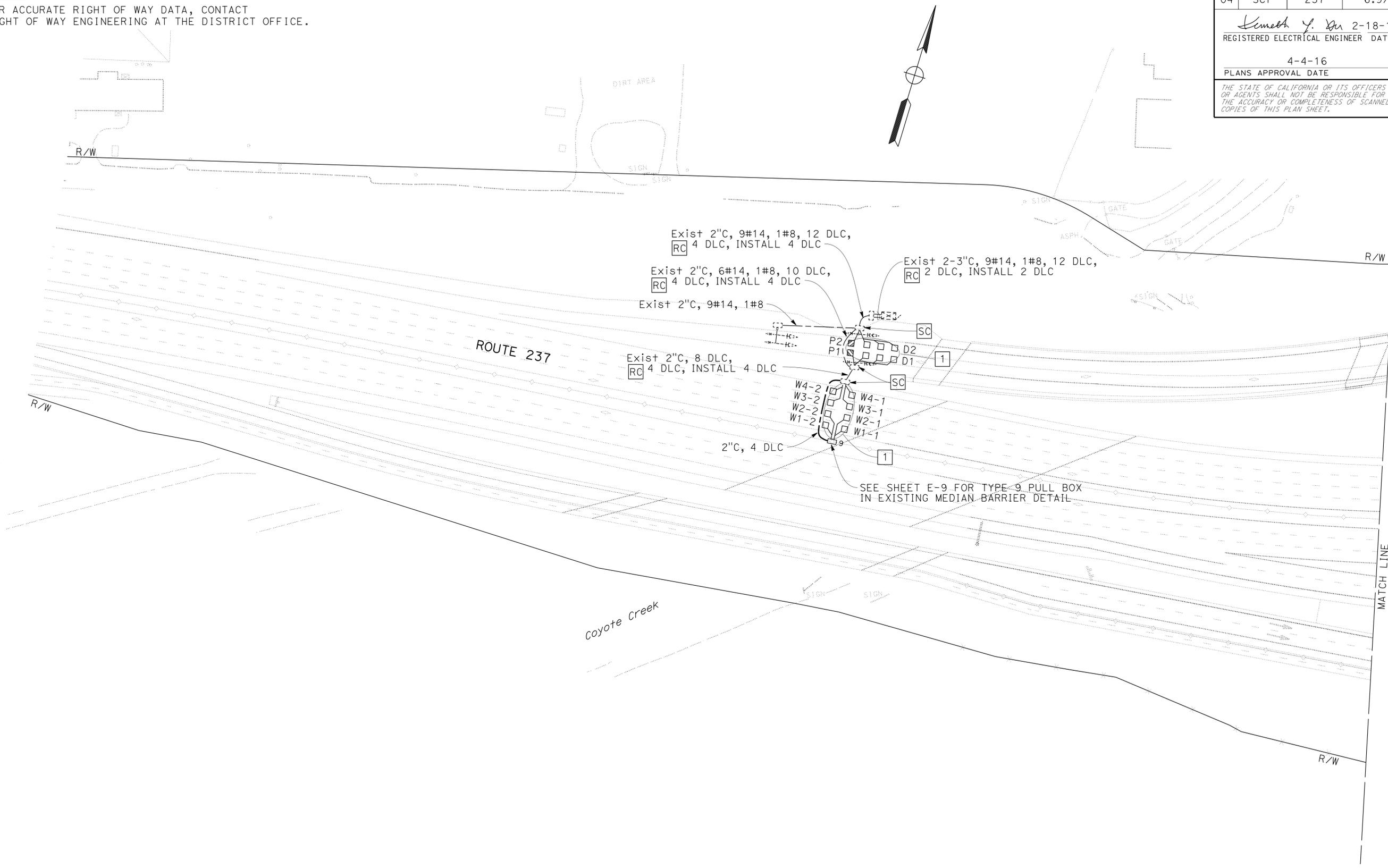
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	41	68

Kenneth Y. Xu 2-18-16
 REGISTERED ELECTRICAL ENGINEER DATE

4-4-16
 PLANS APPROVAL DATE

Kenneth Y. Xu
 No. 15219
 Exp. 6-30-16
 ELECTRICAL

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APPROVED FOR ELECTRICAL WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

MODIFY RAMP METERING SYSTEM

NO SCALE

E-4

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

FUNCTIONAL SUPERVISOR: BEHZAD COLENOHAMMADI
 CALCULATED/DESIGNED BY: CHECKED BY:
 MICHELLE CHAN / KENNETH XU
 REVISED BY: DATE REVISED: 9-28-15
 MC

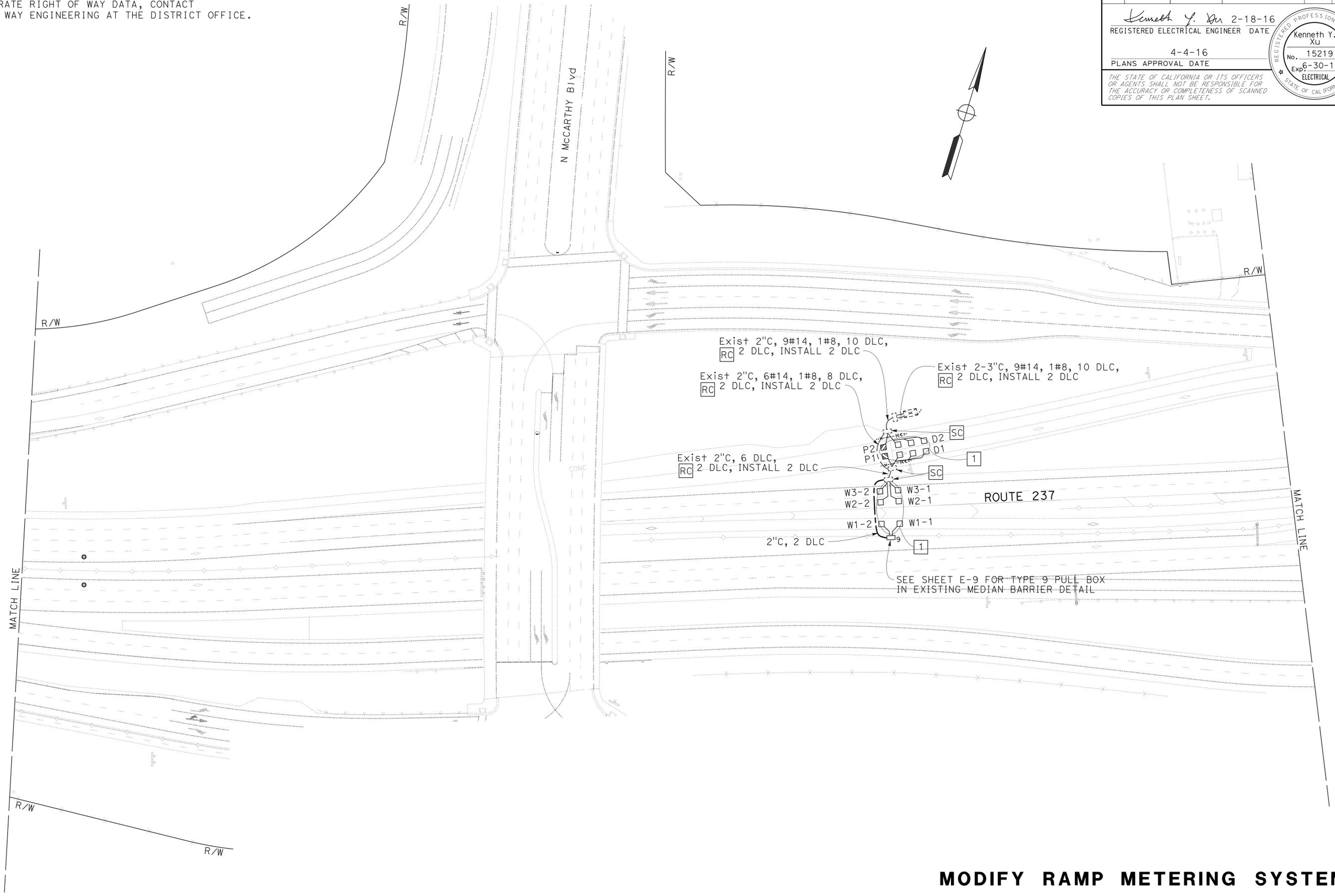
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	42	68

Kenneth Y. Xu 2-18-16
 REGISTERED ELECTRICAL ENGINEER DATE
 4-4-16
 PLANS APPROVAL DATE

Kenneth Y. Xu
 No. 15219
 Exp. 6-30-16
 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.



Exist 2" C, 9#14, 1#8, 10 DLC,
 RC 2 DLC, INSTALL 2 DLC

Exist 2" C, 6#14, 1#8, 8 DLC,
 RC 2 DLC, INSTALL 2 DLC

Exist 2-3" C, 9#14, 1#8, 10 DLC,
 RC 2 DLC, INSTALL 2 DLC

Exist 2" C, 6 DLC,
 RC 2 DLC, INSTALL 2 DLC

2" C, 2 DLC

SEE SHEET E-9 FOR TYPE 9 PULL BOX
 IN EXISTING MEDIAN BARRIER DETAIL

MODIFY RAMP METERING SYSTEM

NO SCALE

E-5

APPROVED FOR ELECTRICAL WORK ONLY

FOR NOTES, ABBREVIATIONS
 AND LEGEND, SEE SHEET E-1

LAST REVISION DATE PLOTTED => 07-APR-2016
 09-28-15 TIME PLOTTED => 11:31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL

FUNCTIONAL SUPERVISOR: BEHZAD COLENOHAMMADI
 CHECKED BY: KENNETH XU
 DESIGNED BY: MICHELLE CHAN
 REVISIONS: MC 9-28-15

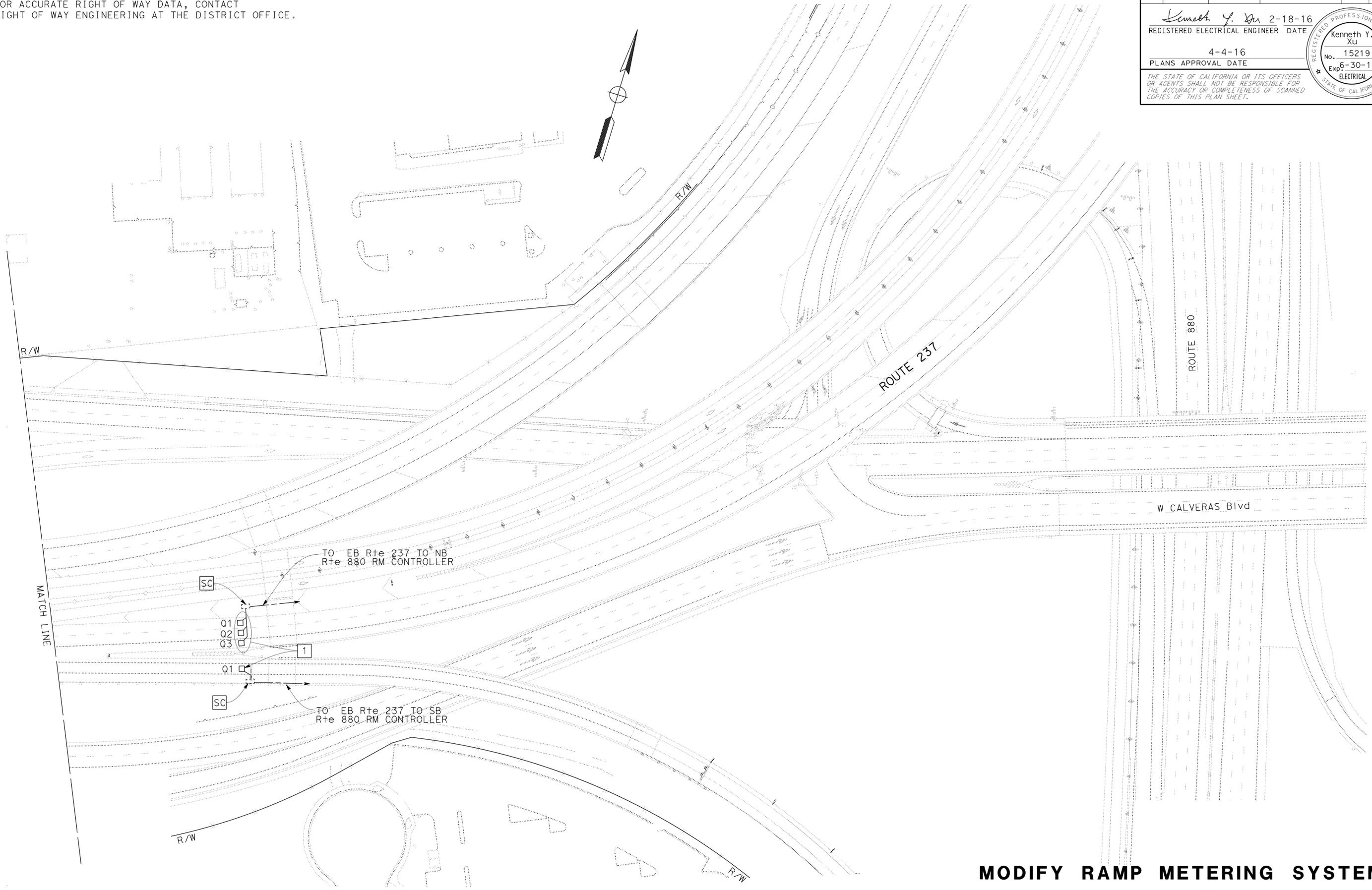
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	43	68

REGISTERED ELECTRICAL ENGINEER: Kenneth Y. Xu
 DATE: 2-18-16
 PLANS APPROVAL DATE: 4-4-16

PROFESSIONAL ENGINEER: Kenneth Y. Xu
 No. 15219
 Exp. 6-30-16
 ELECTRICAL

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MODIFY RAMP METERING SYSTEM

NO SCALE

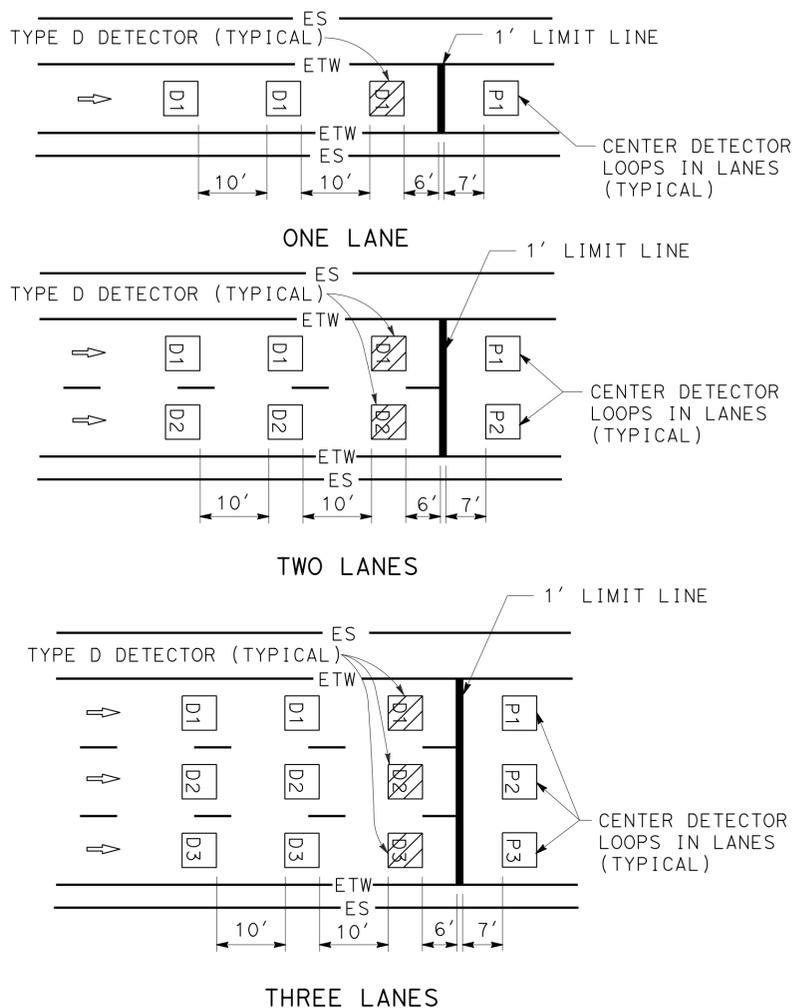
E-6

APPROVED FOR ELECTRICAL WORK ONLY

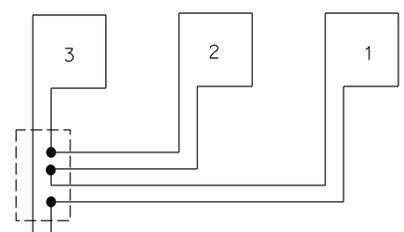
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	44	68
Kenneth Y. Xu 2-18-16 REGISTERED ELECTRICAL ENGINEER DATE					
4-4-16 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	REVISIONS	MC
Caltrans	BEHZAD COLENOHAMMADI	REVISOR	9-28-15
	CHECKED BY	DATE	
	KENNETH XU		
	DESIGNED BY		
	MICHELLE CHAN		



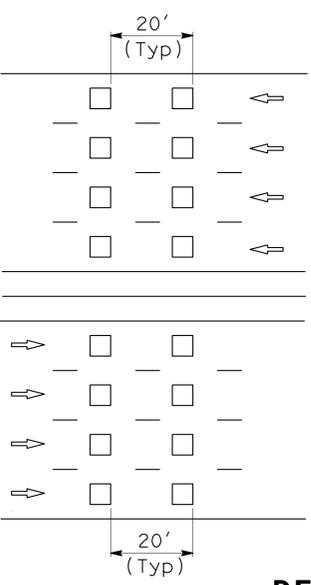
**DETAIL "RM"
RAMP METERING STATION**



TYPICAL LOOP CONNECTIONS
DASHED LINES REPRESENT THE PULL BOX

RAMP METERING STATION NOTES:

- SEE RSP ES-5A, ES-5B, AND ES-13A FOR ADDITIONAL DETAILS.
- DLC CONDUCTORS MUST BE SPLICED TO THE LOOP CONDUCTORS IN THE NEAREST PULL BOX.
- ALL SPLICES MUST BE TYPE "S" OR TYPE "ST" AS REQUIRED.
- LOCATION OF TYPE 1 STANDARDS MUST BE APPROXIMATELY 3 FEET FROM THE EDGE OF SHOULDER AND 12 INCHES DOWNSTREAM OF THE LIMIT LINE.



**DETAIL "TM"
TRAFFIC MONITORING STATION**

TRAFFIC MONITORING STATION NOTES

FREEWAY MAINLINE DETECTOR DESIGNATION:

- N=NORTHBOUND LANES (NB)
- S=SOUTHBOUND LANES (SB)
- E=EASTBOUND LANES (EB)
- W=WESTBOUND LANES (WB)

NUMBER OF LANES FROM LEFT WITH RESPECT TO DIRECTION OF TRAFFIC:

- 1=FIRST LANE FROM LEFT
- 2=SECOND LANE FROM LEFT
- 3=THIRD LANE FROM LEFT
- 4=FOURTH LANE FROM LEFT

NUMBER OF DETECTOR IN THE SAME LANE:

- 1=ENTERING DETECTOR
- 2=LEAVING DETECTOR

RAMP DETECTOR DESIGNATION:

- D=DEMAND DETECTOR
- P=PASSAGE DETECTOR
- Q=QUEUE DETECTOR
- F=OFFRAMP DETECTOR

- 1=FIRST LANE FROM LEFT
- 2=SECOND LANE FROM LEFT

**RAMP METERING AND TRAFFIC MONITORING
DETECTOR SPACING AND DESIGNATION**

ELECTRICAL DETAILS

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	45	68

Robert Camargo	3-24-16
REGISTERED CIVIL ENGINEER	DATE
4-4-16	
PLANS APPROVAL DATE	

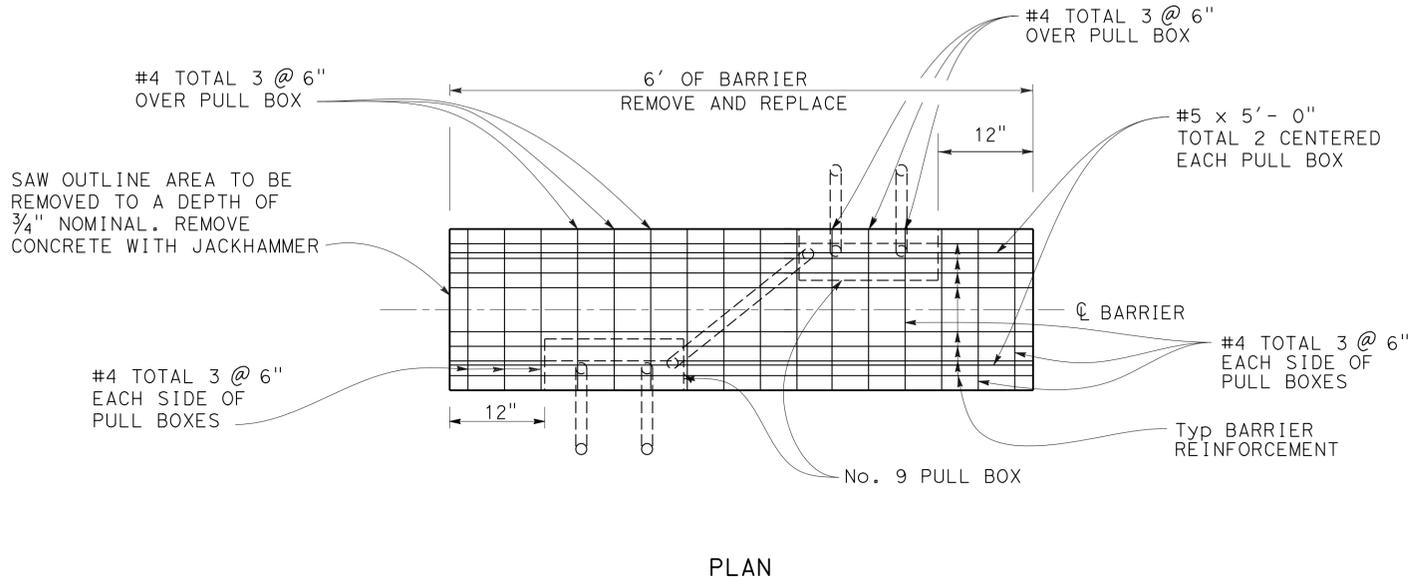
Robert Camargo
No. 34402
Exp. 9-30-17
CIVIL

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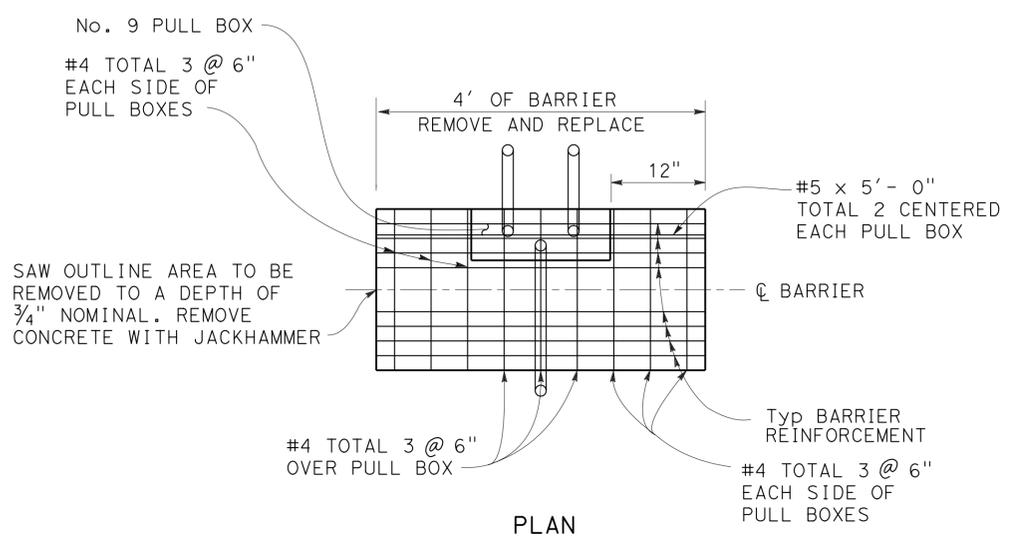
NOTE:

1. THE EXISTING REINFORCEMENTS CANNOT BE DAMAGED OR CUT. IN CASE THESE REINFORCEMENTS ARE CUT OR DAMAGED, DRILL AND BOND EQUAL NUMBER OF REBAR TO EXISTING BARRIER.

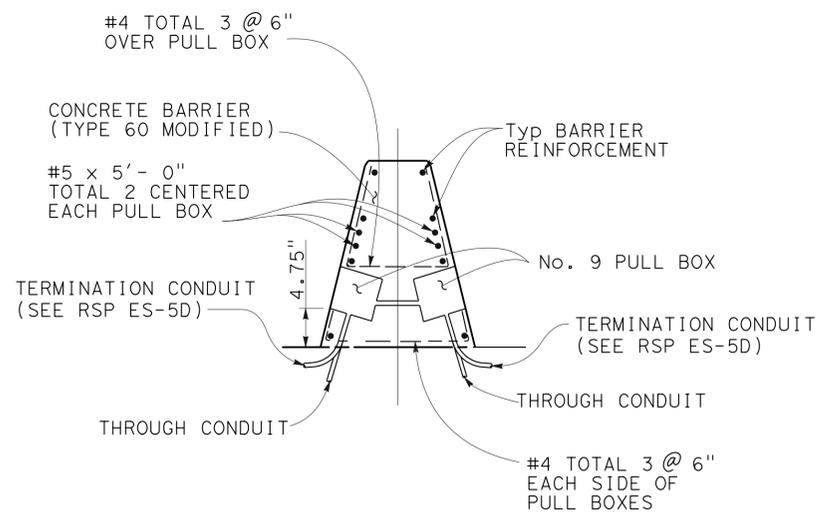
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: STEVEN S. LEE
 CHECKED BY:
 REVISED BY: RC
 DATE REVISED: 12-4-15
 ROBERT CAMARGO



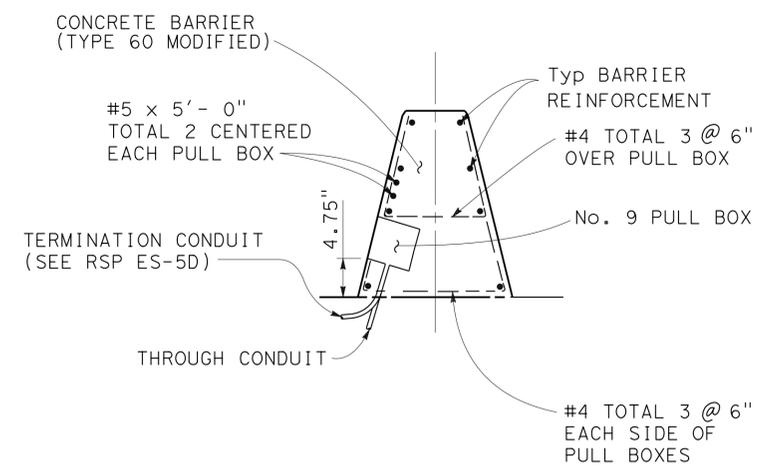
PLAN



PLAN



CONDUIT AND No. 9 DOUBLE PULL BOX INSTALLATION IN MEDIAN BARRIER



CONDUIT AND No. 9 SINGLE PULL BOX INSTALLATION IN MEDIAN BARRIER

ELECTRICAL DETAILS
(LIGHTING AND TRAFFIC OPERATION SYSTEMS)
 NO SCALE

LAST REVISION DATE PLOTTED => 07-APR-2016
 02-18-16 TIME PLOTTED => 11:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	46	68

Kenneth Y. Xu 2-18-16
 REGISTERED ELECTRICAL ENGINEER DATE

4-4-16
 PLANS APPROVAL DATE

Kenneth Y. Xu
 No. 15219
 Exp. 6-30-16
 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.

MODIFY RAMP METERING SYSTEM QUANTITIES

SHEET No.	CONDUIT	PULL BOX	LOOP		DLC
	2"	No. 9	TYPE A	TYPE D	TYPE B
	ft		EA		ft
E-1			18	2	
E-3			14	2	
E-4			16		
E-5	70	1	14	2	700
E-6	70	1	12	2	700
E-7			4		

ITEMS SHOWN IN THIS TABLE IS NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

ELECTRICAL QUANTITIES

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

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	Q	
Qty	QUANTITY	
	R	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
SL	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	47	68

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 4-4-16

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

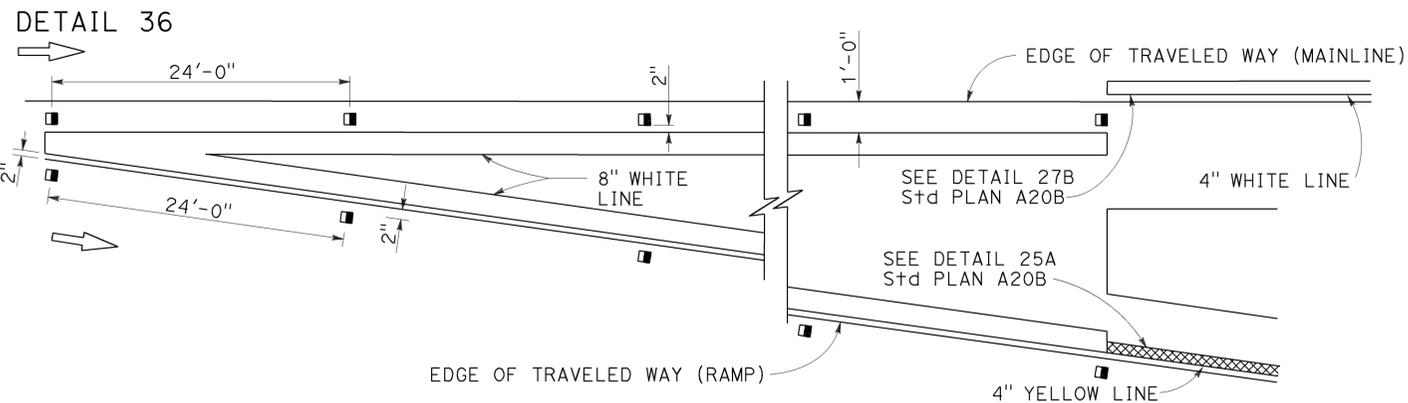
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

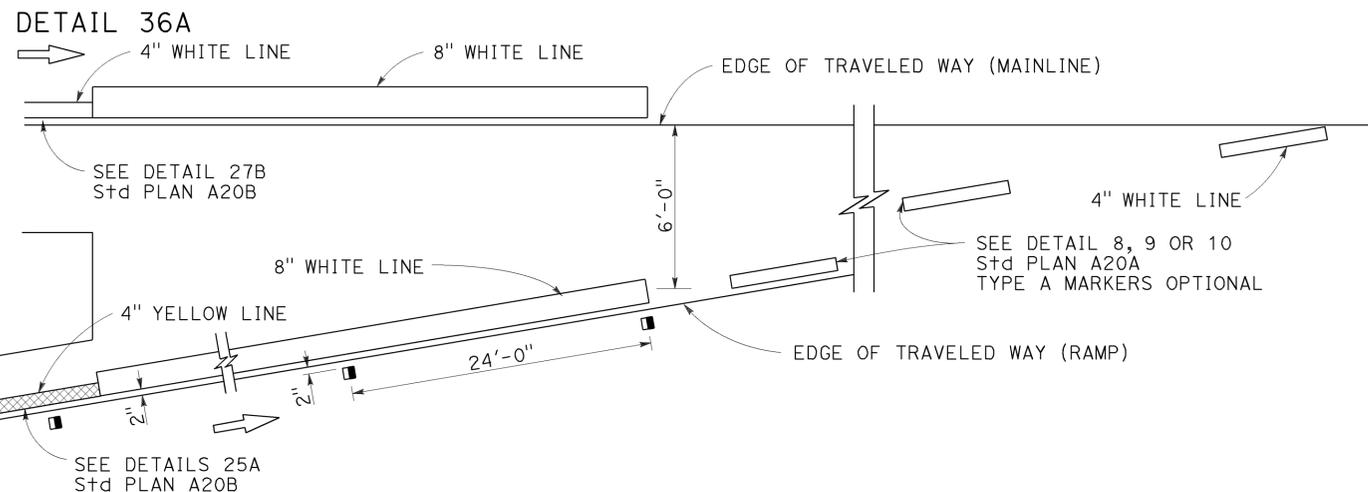
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

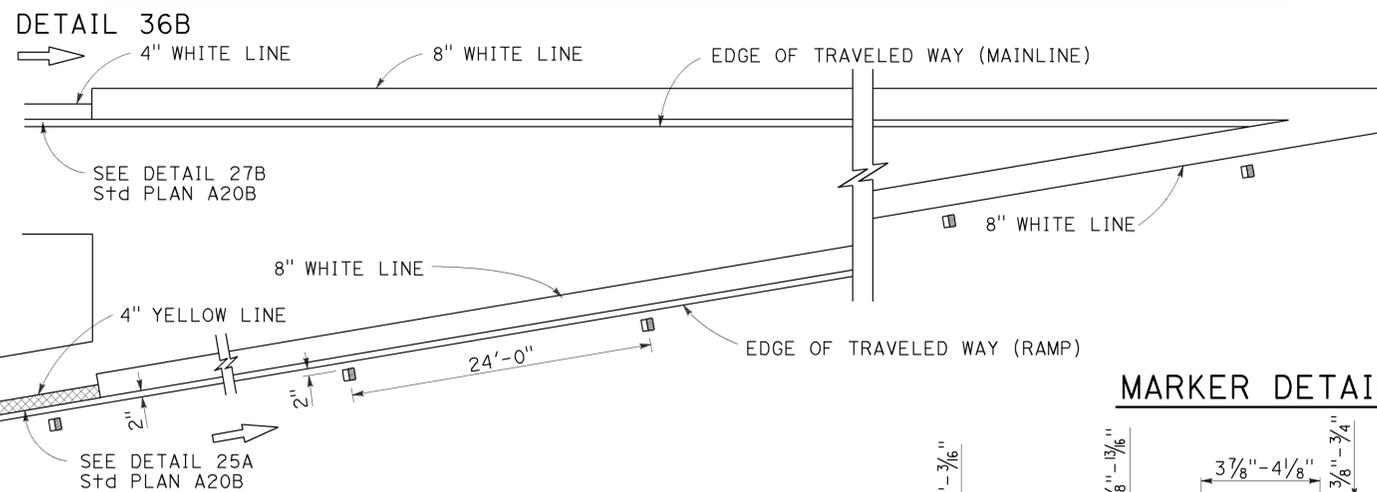
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

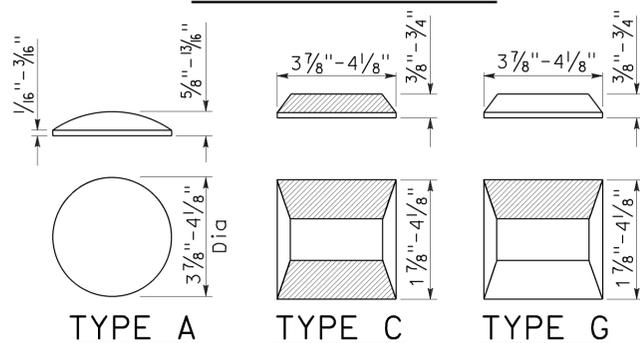


MARKER DETAILS

LEGEND:

MARKERS

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



■ RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	48	68

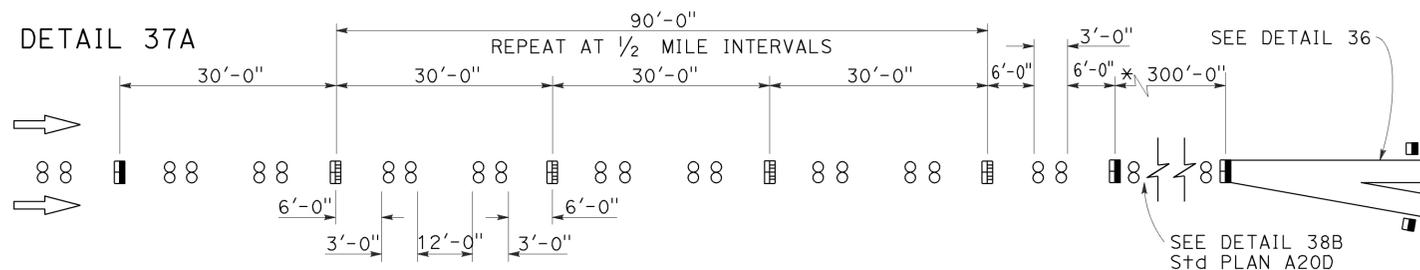
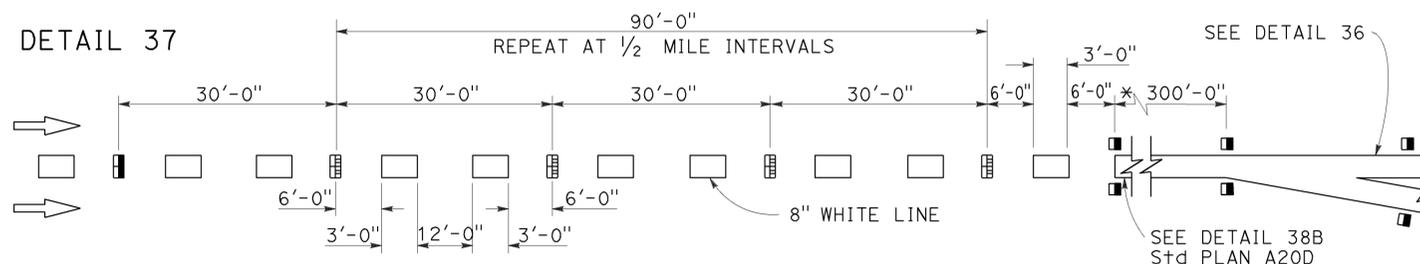
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 No. C40375
 Exp. 3-31-15
 CIVIL
 STATE OF CALIFORNIA

July 19, 2013
PLANS APPROVAL DATE

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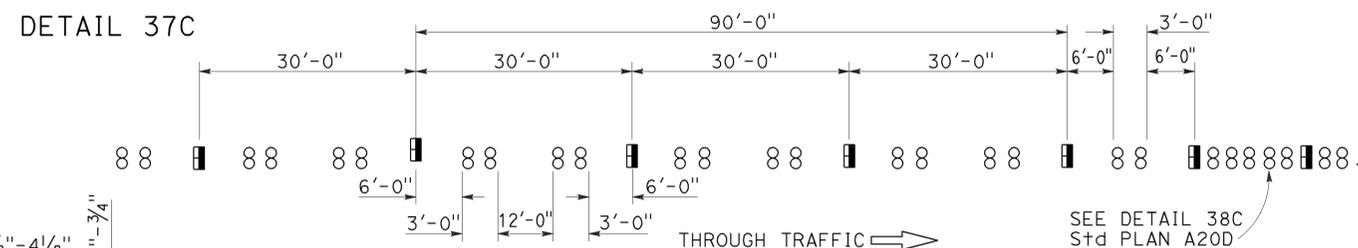
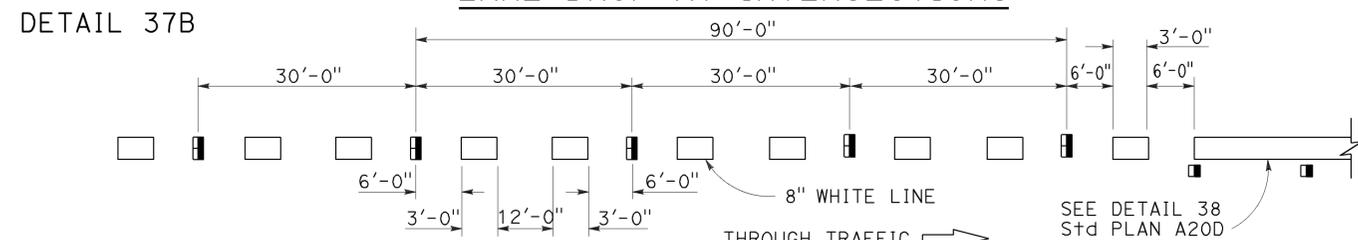
TO ACCOMPANY PLANS DATED 4-4-16

LANE DROP AT EXIT RAMP



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

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

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

REVISED STANDARD PLAN RSP A20C

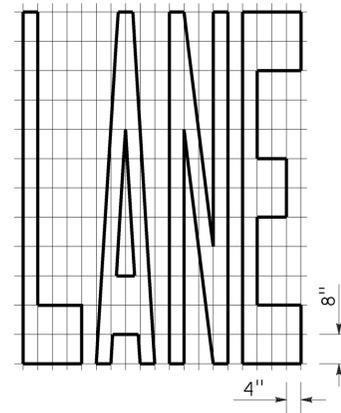
2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	50	68

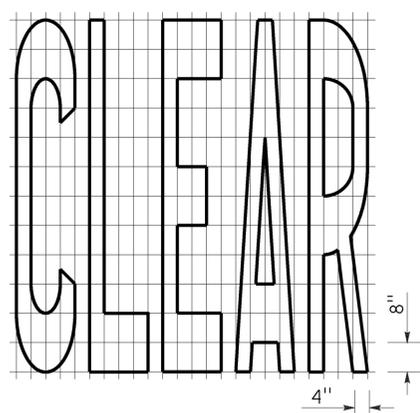
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 20, 2012
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

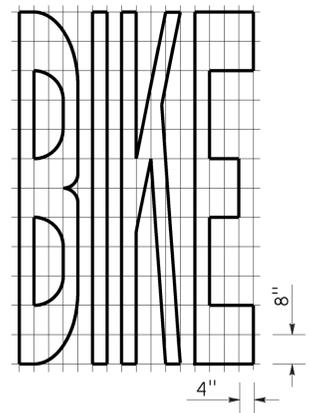
TO ACCOMPANY PLANS DATED 4-4-16



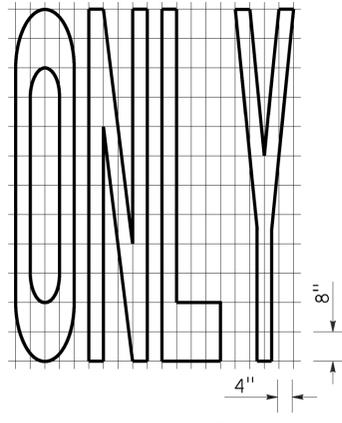
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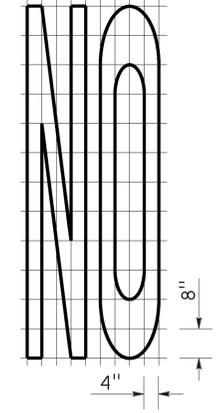
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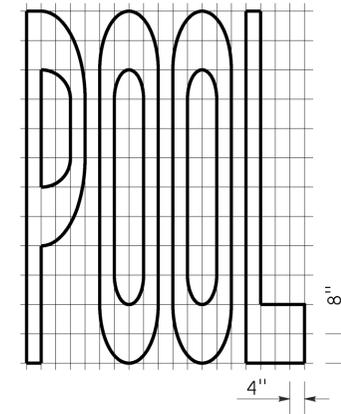
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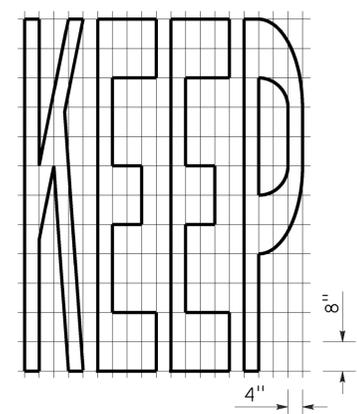
A=22 ft²



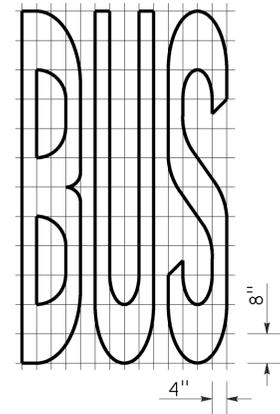
A=14 ft²



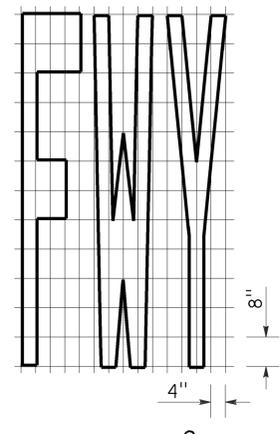
A=23 ft²



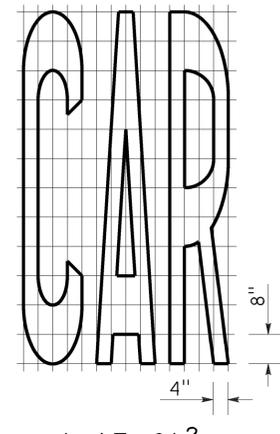
A=24 ft²



A=20 ft²

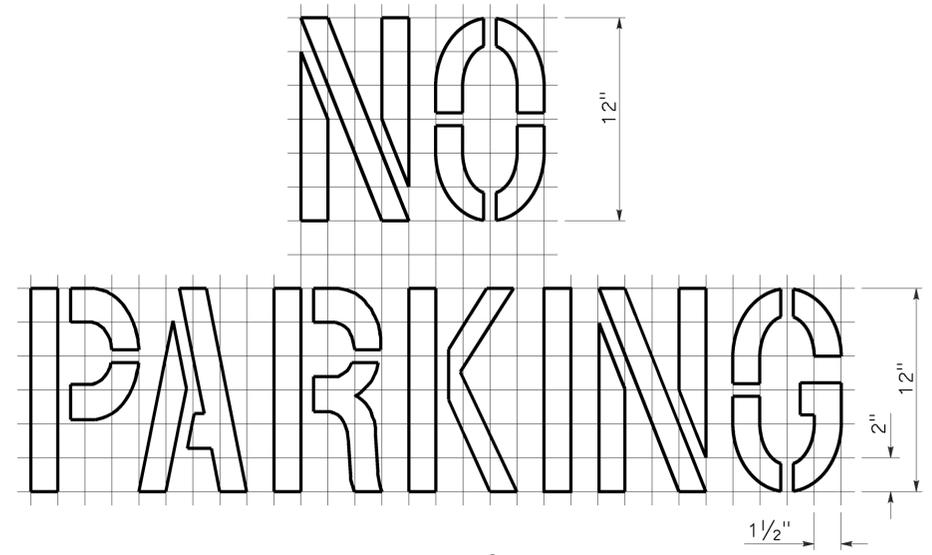


A=16 ft²

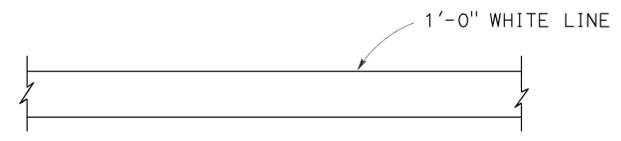


A=17 ft²

WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



DIRECTION OF TRAVEL
YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES

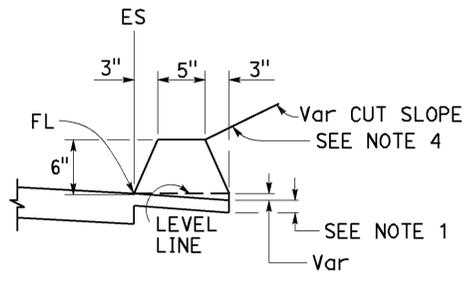
NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

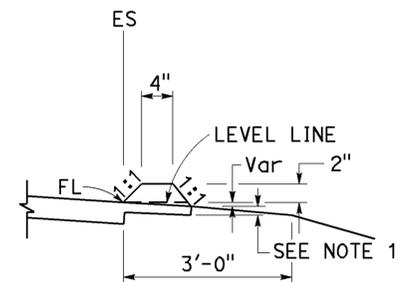
2010 REVISED STANDARD PLAN RSP A24E



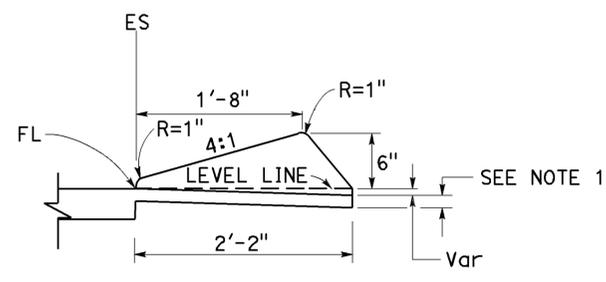
TO ACCOMPANY PLANS DATED 4-4-16



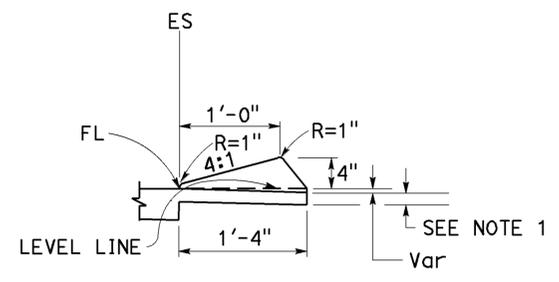
TYPE A
See Notes 3 and 5



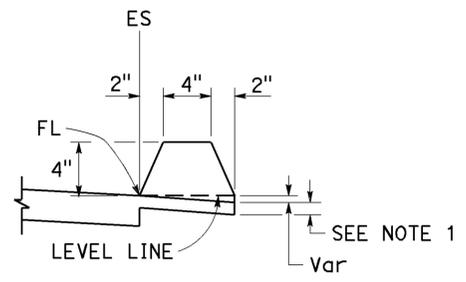
TYPE C



TYPE D

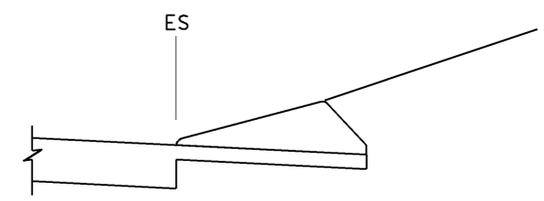


TYPE E

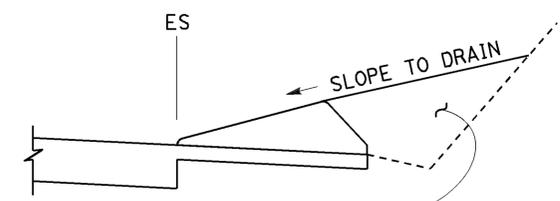


TYPE F
See Note 5

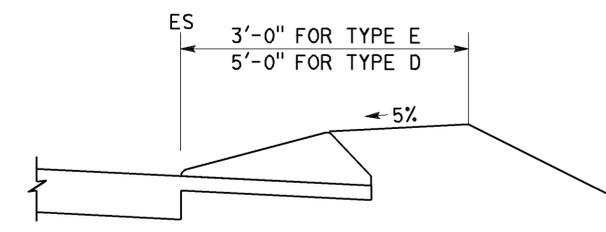
DIKES



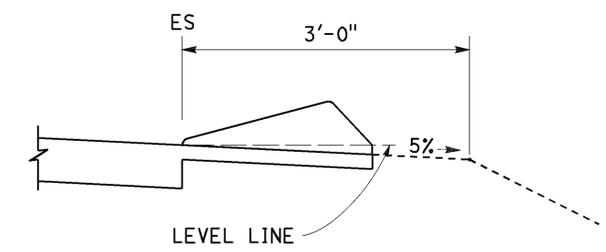
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

1. For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
2. Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
3. Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
4. Fill and compact with excavated material to top of dike.
5. Use Type A or F dike, where dike is required with guardrail installations. See Revised Standard Plan RSP A77N4 for dike positioning details. See Revised Standard Plan RSP A77N3 for hinge point offsets with guardrail.

DIKE QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES

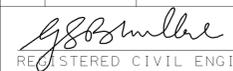
NO SCALE

RSP A87B DATED JANUARY 15, 2016 SUPERSEDES RSP A87B DATED JULY 19, 2013 AND STANDARD PLAN A87B DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87B

2010 REVISED STANDARD PLAN RSP A87B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	52	68


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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

TO ACCOMPANY PLANS DATED 4-4-16

TABLE 1

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

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

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

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

TABLE 2

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

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

TABLE 3

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

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

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

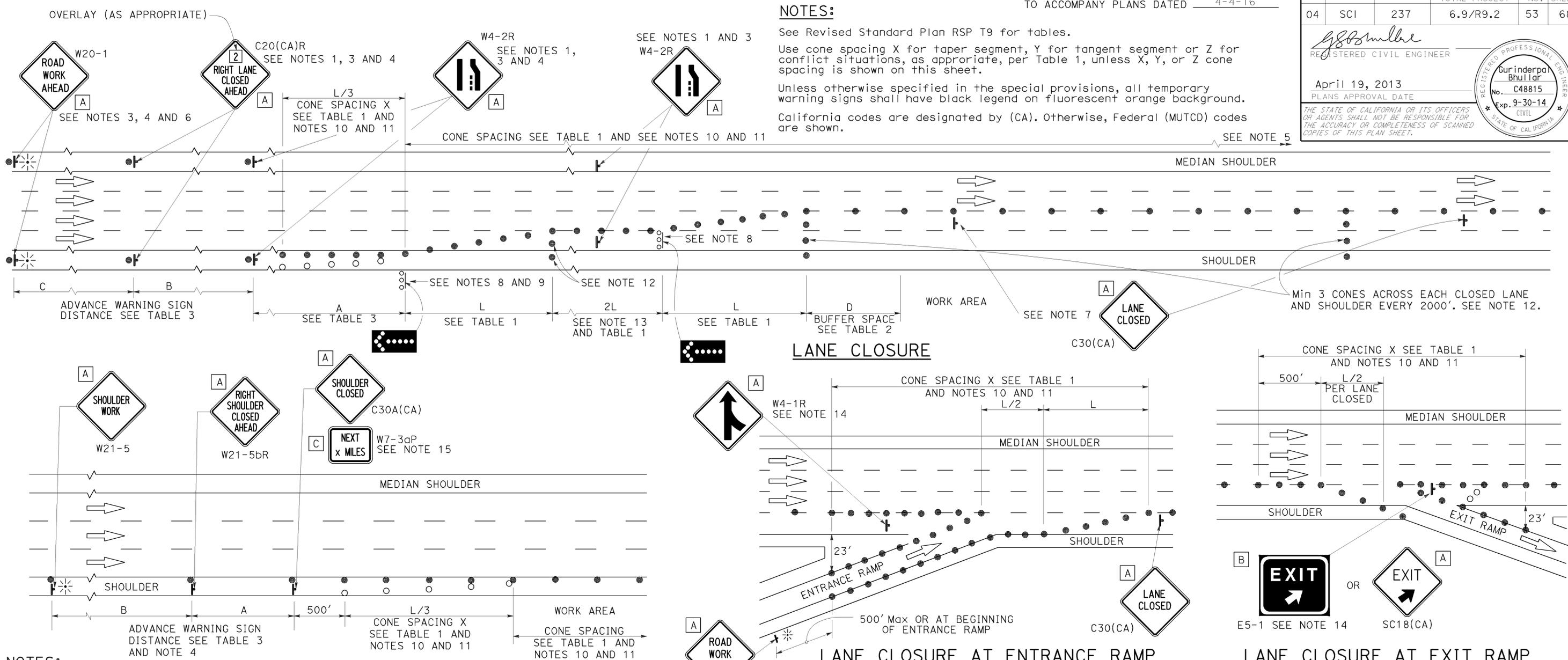
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	53	68

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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

2010 REVISED STANDARD PLAN RSP T10



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

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

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

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T10

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	54	68

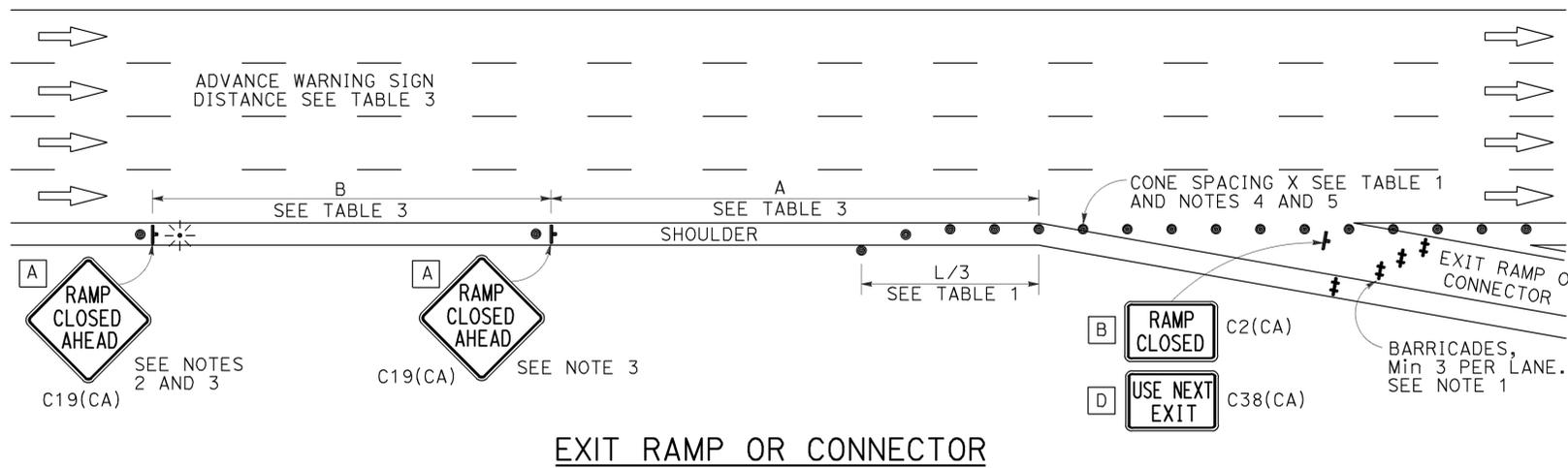
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

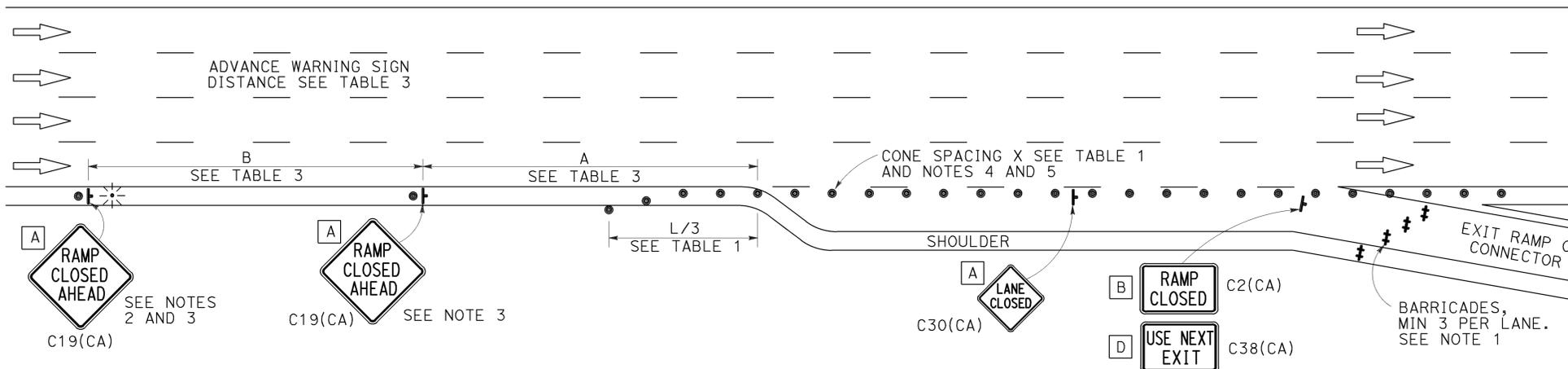
TO ACCOMPANY PLANS DATED 4-4-16

NOTES:

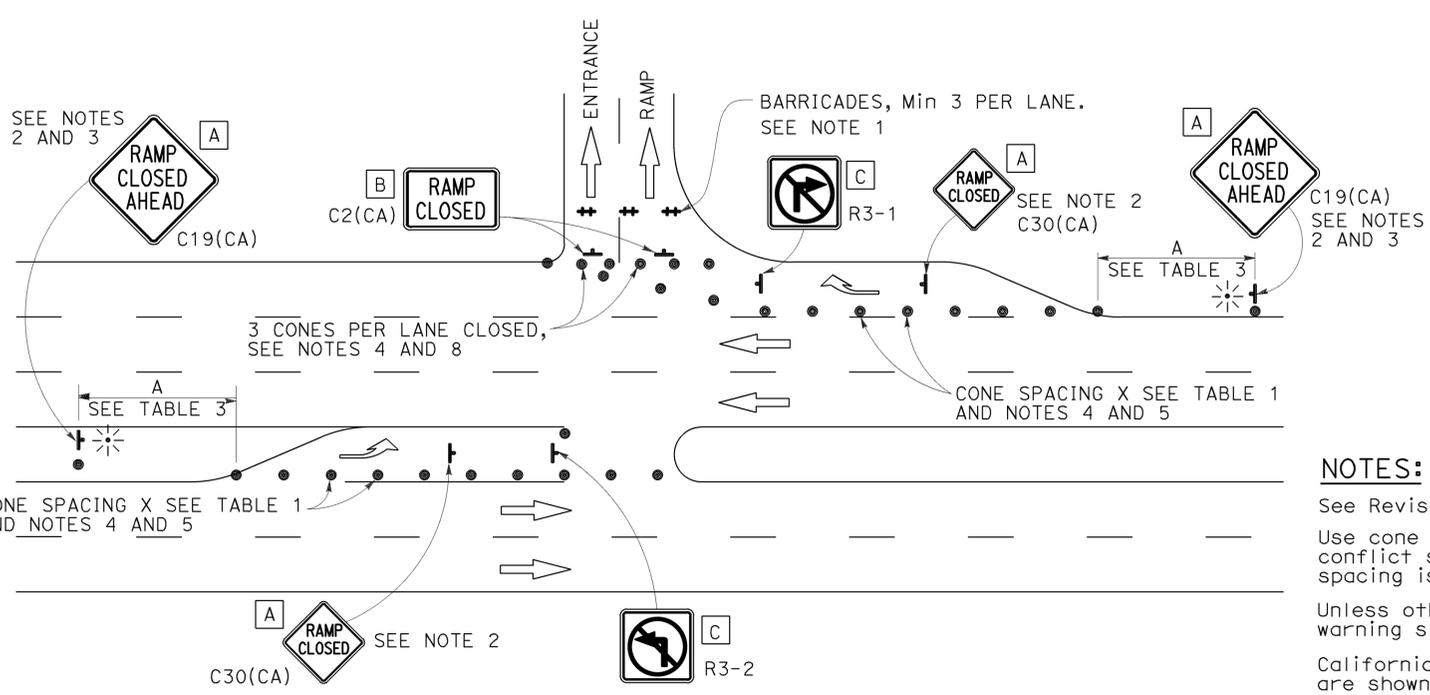
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
- Each advance C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
- All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



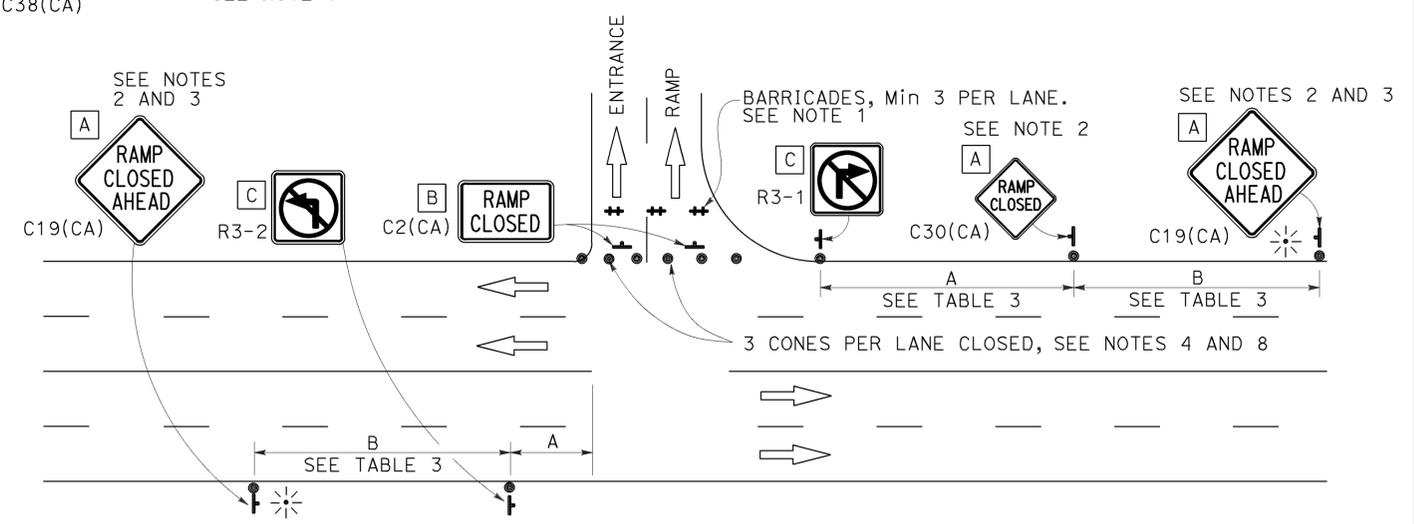
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

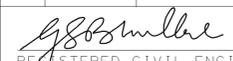
- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.
REVISED STANDARD PLAN RSP T14

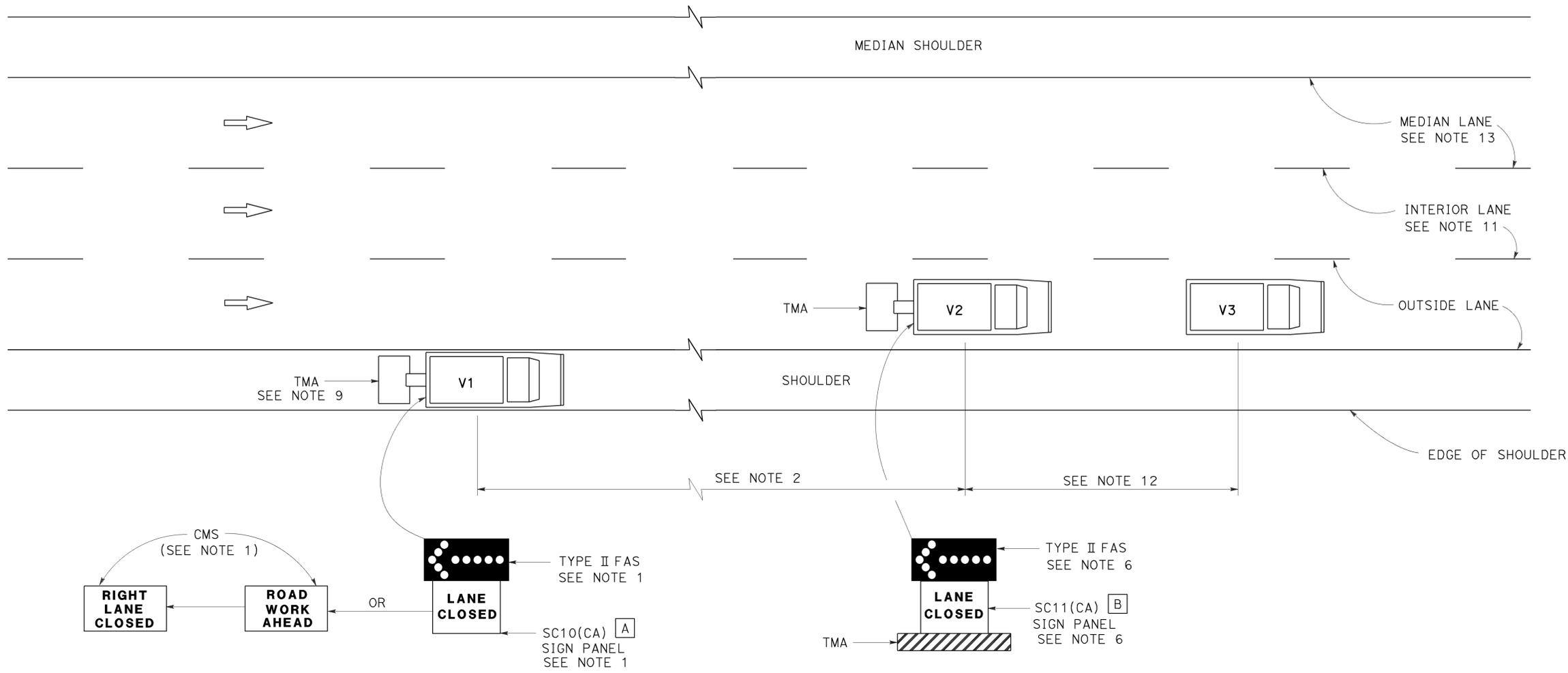
2010 REVISED STANDARD PLAN RSP T14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	55	68


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



TO ACCOMPANY PLANS DATED 4-4-16



SIGN PANEL SIZE (Min)

- A 66" x 36"
- B 54" x 42"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
-  FLASHING ARROW SIGN (FAS)
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

NOTES:

- Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
- A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
- Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
- Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
- Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
- All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
- All vehicles shall be equipped with flashing or rotating amber lights.
- If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
- Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
- For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
- The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
- When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS
NO SCALE

RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15 DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

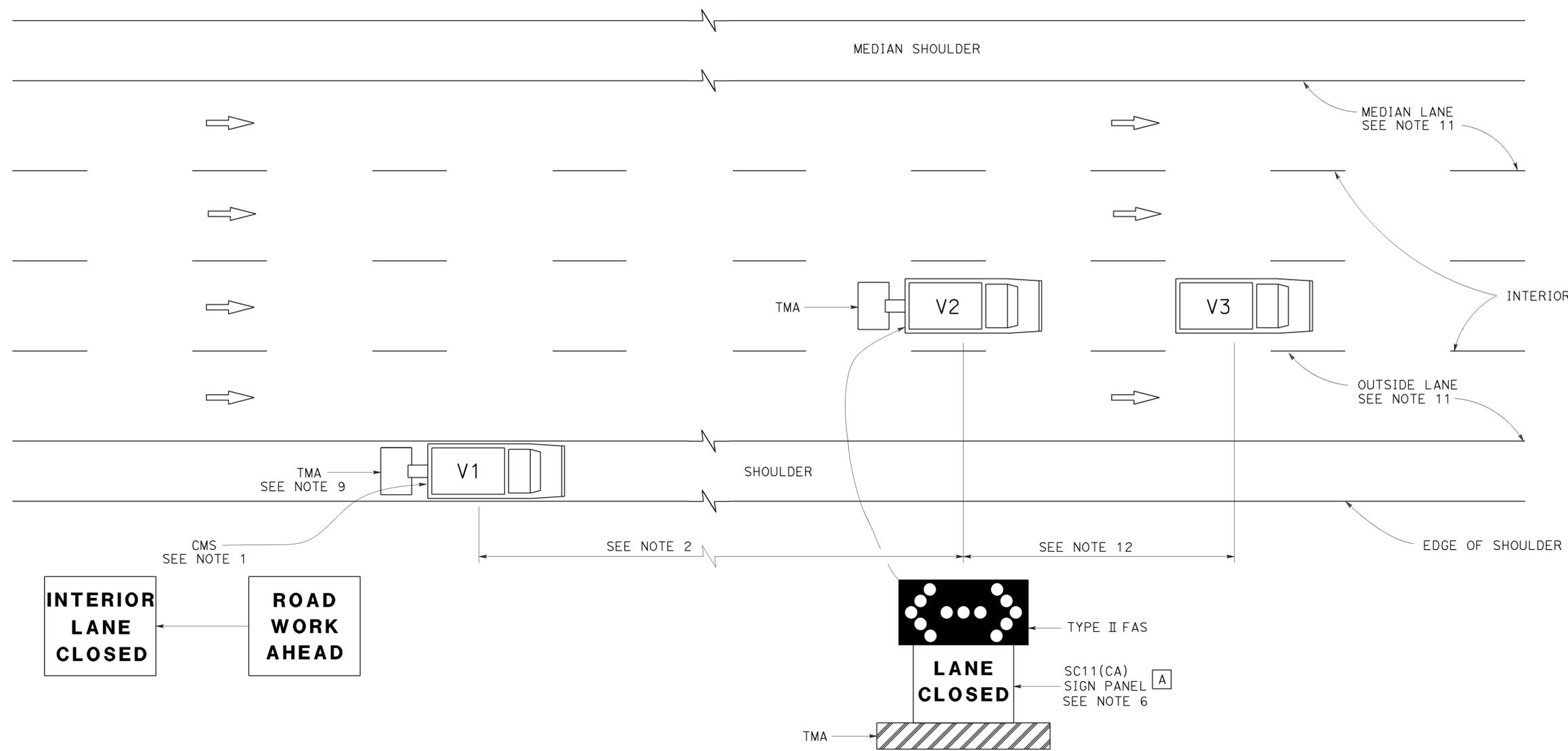
2010 REVISED STANDARD PLAN RSP T15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	56	68

Registered Civil Engineer
Gurinderpal Bhullar
 April 19, 2013
 PLANS APPROVAL DATE
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 4-4-16



SIGN PANEL SIZE (Min)

A 54" x 42"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
-  FLASHING ARROW SIGN (FAS) IN FLASHING DOUBLE ARROW MODE
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11 etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on median lane or outside lane of multilane highways, use Revised Standard Plan T15.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON MULTILANE HIGHWAYS**
 NO SCALE

RSP T16 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T16 DATED MAY 20, 2011 - PAGE 244 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T16

2010 REVISED STANDARD PLAN RSP T16

LEGEND:

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 TAPE
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
TSP	TELEPHONE SERVICE POINT

ABBREVIATIONS

AC+	UNDERGROUNDED CONDUCTOR	MAT	MAST ARM MOUNTING TOP ATTACHMENT
APS	ACCESSIBLE PEDESTRIAN SIGNAL	MAS	MAST ARM MOUNTING SIDE ATTACHMENT
Batt	BATTERY	MBPS	MANUAL BYPASS SWITCH
BBS	BATTERY BACKUP SYSTEM	M/M	MULTIPLE TO MULTIPLE TRANSFORMER
BC	BOLT CIRCLE	Mtg	MOUNTING
BIK	BLACK	MV	MERCURY VAPOR LIGHTING FIXTURE
BP	BYPASS	MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
BPB	BICYCLE PUSH BUTTON	N	NEUTRAL (GROUNDED CONDUCTOR)
C	CONDUIT	NB	NEUTRAL BUS
CB	CIRCUIT BREAKER	NC	NORMALLY CLOSE
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
Ckt	CIRCUIT	P	CIRCUIT BREAKER'S POLE
CMS	CHANGEABLE MESSAGE SIGN	PB	PULL BOX
Ctid	CALTRANS IDENTIFICATION	PBA	PUSH BUTTON ASSEMBLY
Comm	COMMUNICATION	PEC	PHOTOELECTRIC CONTROL
Cntl	CONTROL	Ped	PEDESTRIAN
DF	DEPARTMENT-FURNISHED	PEU	PHOTOELECTRIC UNIT
DLC	LOOP DETECTOR LEAD-IN CABLE	PT	CONDUIT WITH PULL TAPE
EMS	EXTINGUISHABLE MESSAGE SIGN	PTR	POWER TRANSFER RELAY
EVUC	EMERGENCY VEHICLE UNIT CABLE	RE	RELOCATED EQUIPMENT
EVUD	EMERGENCY VEHICLE UNIT DETECTOR	RM	RAMP METERING
FB	FLASHING BEACON	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
FBCA	FLASHING BEACON CONTROL ASSEMBLY	SB	SLIP BASE
FBS	FLASHING BEACON WITH SLIP BASE	SIC	SIGNAL INTERCONNECT CABLE
FO	FIBER OPTIC	Sig	SIGNAL
G	EQUIPMENT GROUNDING CONDUCTOR	SMA	SIGNAL MAST ARM
GB	GROUND BUS	SNS	STREET NAME SIGN
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SP	SERVICE POINT
Grn	GREEN	TB	TERMINAL BOARD
HAR	HIGHWAY ADVISORY RADIO	TDC	TELEPHONE DEMARCATION CABINET
Hex	HEXAGONAL	Temp	TEMPERATURE
HPS	HIGH PRESSURE SODIUM	TMS	TRAFFIC MONITORING STATION
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN	TOS	TRAFFIC OPERATIONS SYSTEM
ISL	INDUCTION SIGN LIGHTING	UPS	UNINTERRUPTABLE POWER SUPPLY
LED	LIGHT EMITTING DIODE	UPSC	UNINTERRUPTABLE POWER SUPPLY CONTROLLER
LMA	LUMINAIRE MAST ARM	Veh	VEHICLE
LPS	LOW PRESSURE SODIUM	VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
Ltg	LIGHTING	Wht	WHITE
Lum	LUMINAIRE	WIM	WEIGH-IN-MOTION
M	METERED	Xfmr	TRANSFORMER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	57	68

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

Theresa
Aziz Gabriel
No. E15129
Exp. 6-30-16
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 4-4-16

SOFFIT AND WALL-MOUNTED LUMINAIRES

- PENDANT SOFFIT LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- FLUSH-MOUNTED SOFFIT LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- WALL-MOUNTED LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- EXISTING SOFFIT OR WALL-MOUNTED LUMINAIRE TO REMAIN UNMODIFIED
- EXISTING SOFFIT OR WALL-MOUNTED LUMINAIRE TO BE MODIFIED AS SPECIFIED

NOTE:
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL	DEFINITIONS
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V(dc)	VOLT (DIRECT CURRENT)
V(ac)	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
Hz	HERTZ

MISCELLANEOUS ELECTROLIERS

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT LEGEND)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

- NOTES:**
- LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
 - Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		150
		15 STRUCTURE
		150 STRUCTURE
		21
		210
		21 STRUCTURE
		210 STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1A DATED JULY 19, 2013 AND STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1A

2010 REVISED STANDARD PLAN RSP ES-1A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	58	68

Theresa Gabriel
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TO ACCOMPANY PLANS DATED 4-4-16

CONDUIT

SIGNAL EQUIPMENT

NEW	EXISTING	
---	---	LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
---	---	TRAFFIC SIGNAL CONDUIT
---C---	---c---	COMMUNICATION CONDUIT
---T---	---t---	TELEPHONE CONDUIT
---F---	---f---	FIRE ALARM CONDUIT
---FO---	---fo---	FIBER OPTIC CONDUIT
---	---	CONDUIT TERMINATION
		CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

NEW	EXISTING	
		PEDESTRIAN SIGNAL HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
		MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)

SIGNAL EQUIPMENT Cont

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION

SERVICE EQUIPMENT

NEW	EXISTING	
---OH---	---oh---	OVERHEAD LINES
		WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
		SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
		TELEPHONE DEMARCATION CABINET

POLE-MOUNTED SERVICE DESIGNATION

	TYPE H SERVICE, 28'-10"	TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE
--	-------------------------	--

FLASHING BEACON

NEW	EXISTING	
		FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
		FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
		FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

NOTES:

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

ILLUMINATED OVERHEAD SIGN

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**

NO SCALE

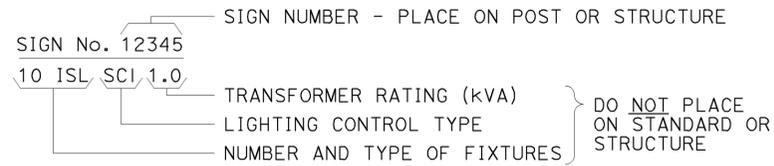
RSP ES-1B DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1B DATED JULY 19, 2013 AND STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1B

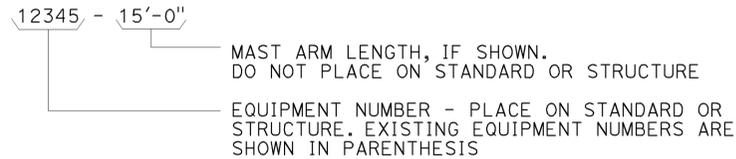
2010 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

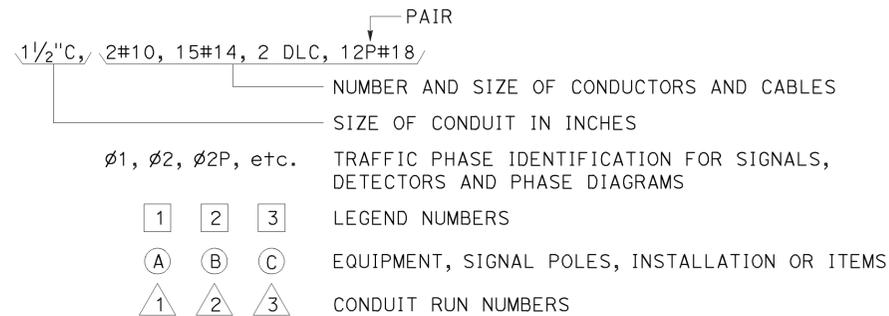
ILLUMINATED SIGN IDENTIFICATION NUMBER:



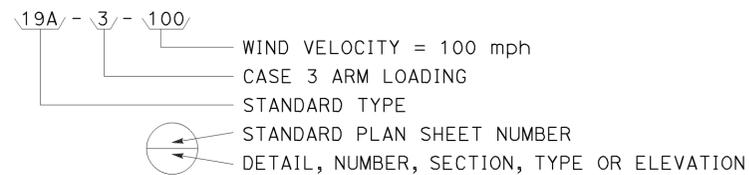
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



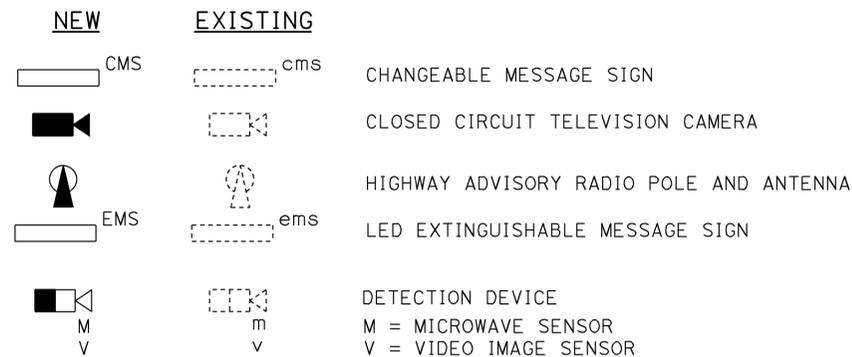
CONDUIT AND CONDUCTOR IDENTIFICATION:



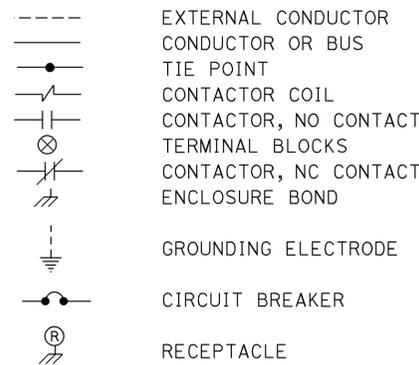
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



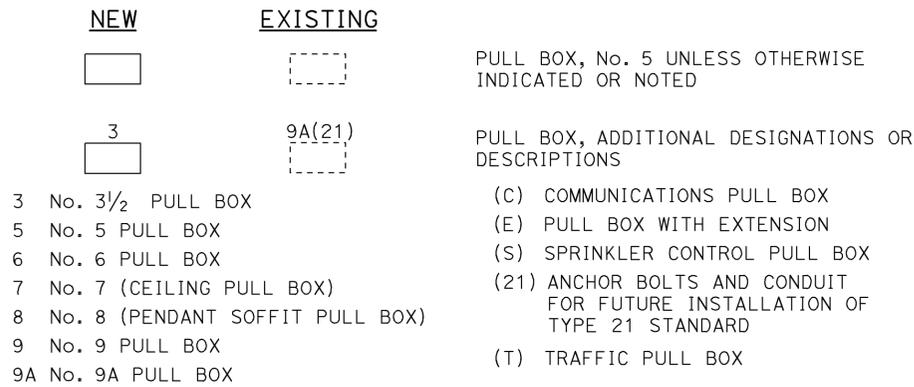
MISCELLANEOUS EQUIPMENT



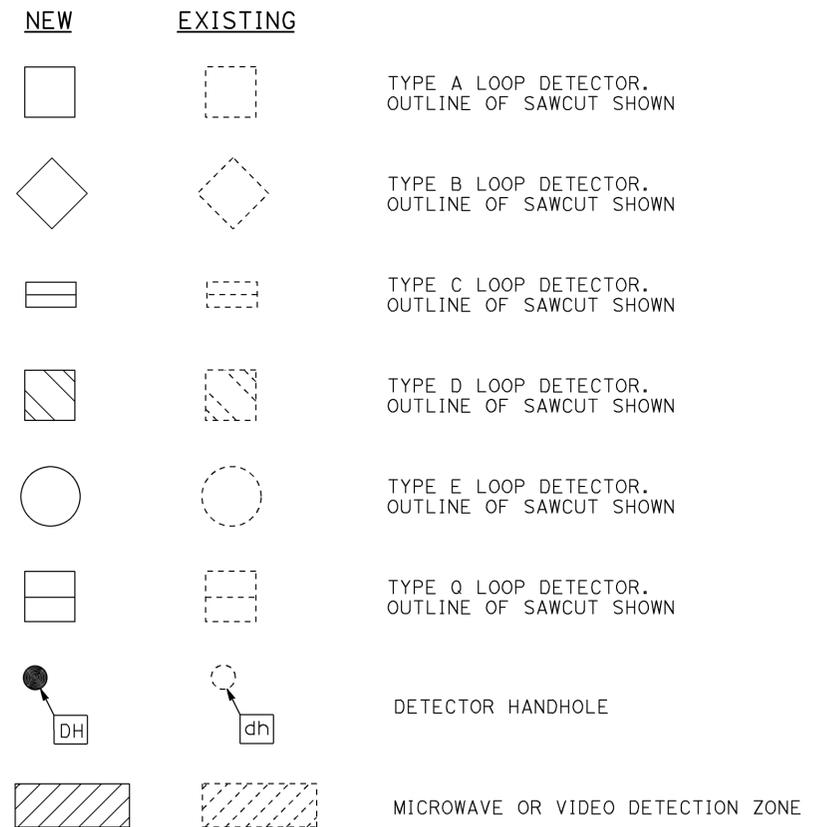
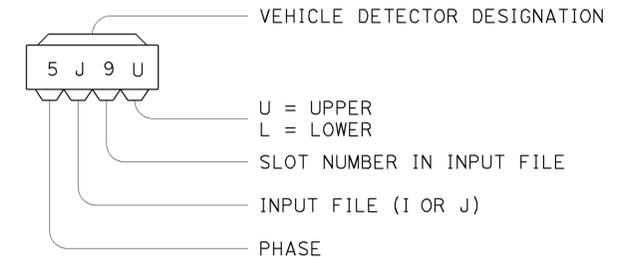
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1C DATED JULY 19, 2013 AND STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1C

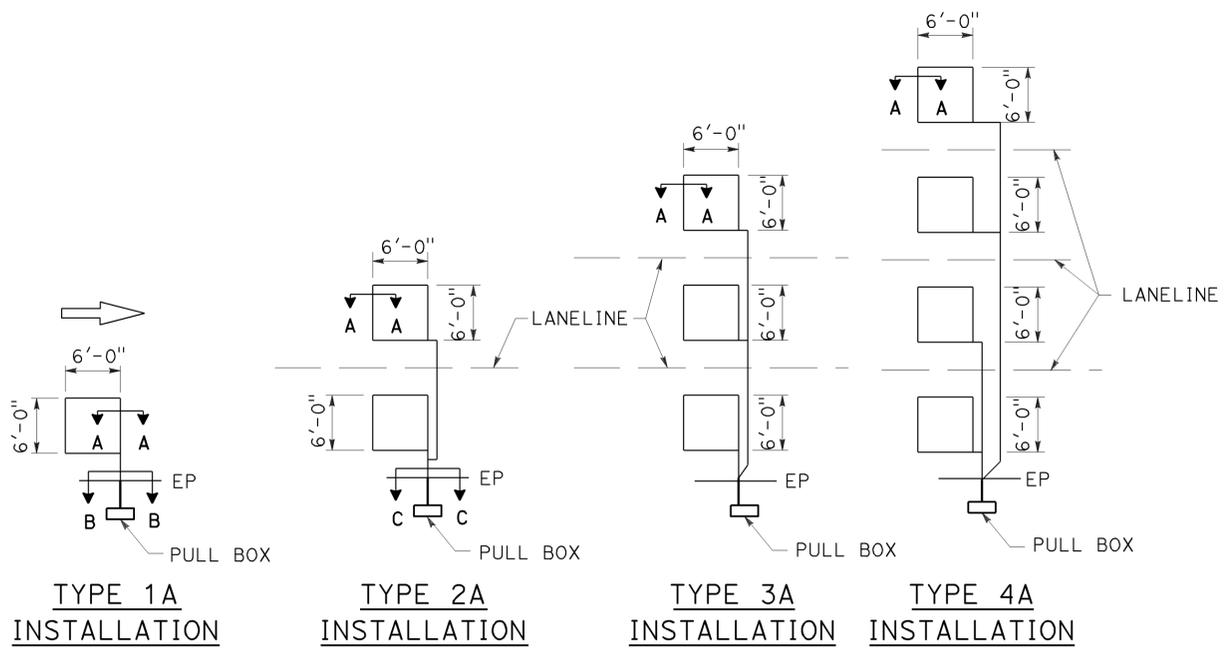
2010 REVISED STANDARD PLAN RSP ES-1C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	60	68

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 October 30, 2015
 PLANS APPROVAL DATE
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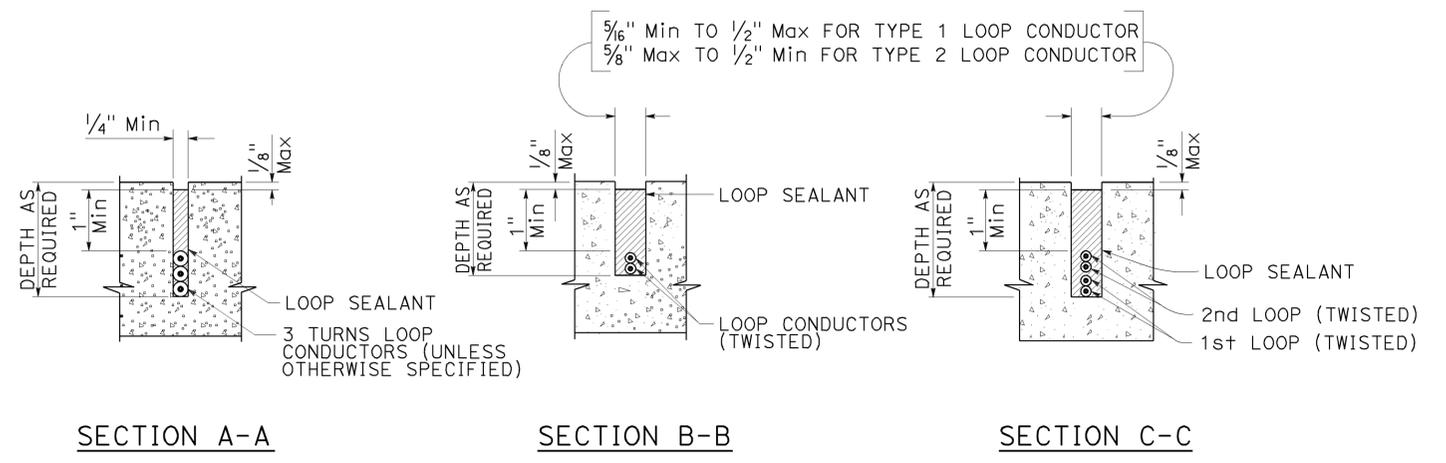


TO ACCOMPANY PLANS DATED 4-4-16

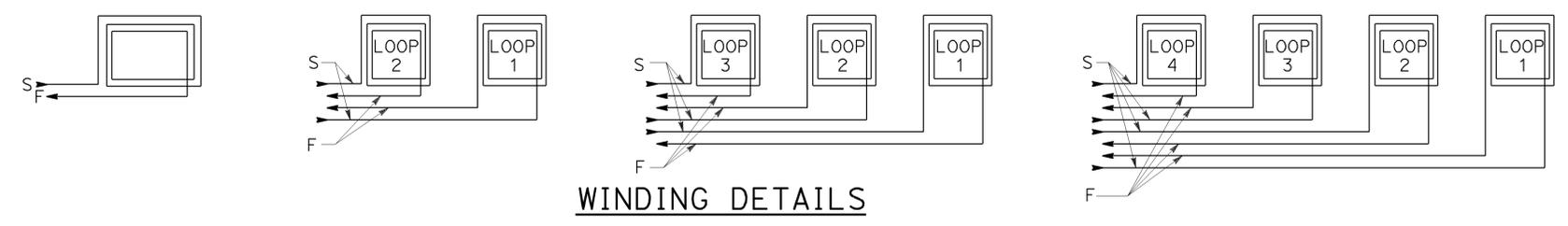


SAWCUT DETAILS

- Type A loop detector configurations illustrated
- 1A thru 4A = 1 Type A loop configuration in each lane.
 - 1B thru 4B = 1 Type B loop configuration in each lane.
 - 1C = 1 Type C loop configuration entering lanes as required.
 - 1D thru 4D = 1 Type D loop configuration in each lane.
 - 1E thru 4E = 1 Type E loop configuration in each lane.
 - 1Q thru 4Q = 1 Type Q loop configuration in each lane.
- Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans.

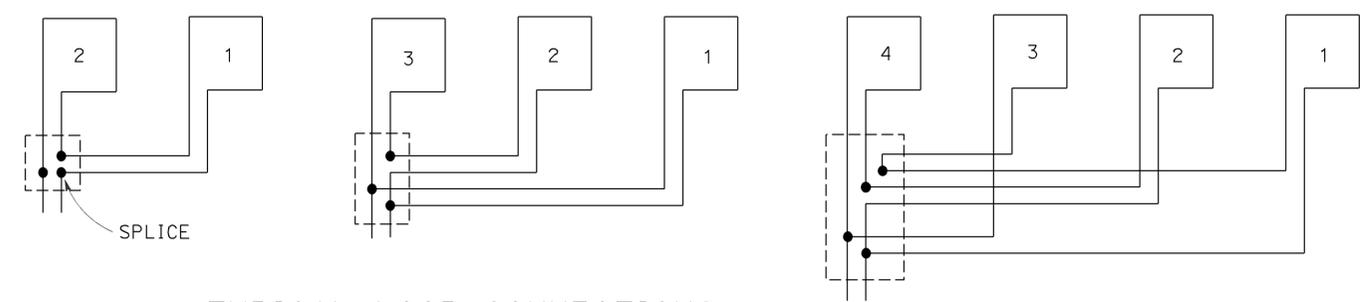


SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR



WINDING DETAILS

ABBREVIATIONS:
 S - START
 F - FINISH



TYPICAL LOOP CONNECTIONS
 Dashed lines represent the pull box

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (LOOP DETECTORS)**
 NO SCALE

RSP ES-5A DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN ES-5A DATED MAY 20, 2011 - PAGE 448 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5A

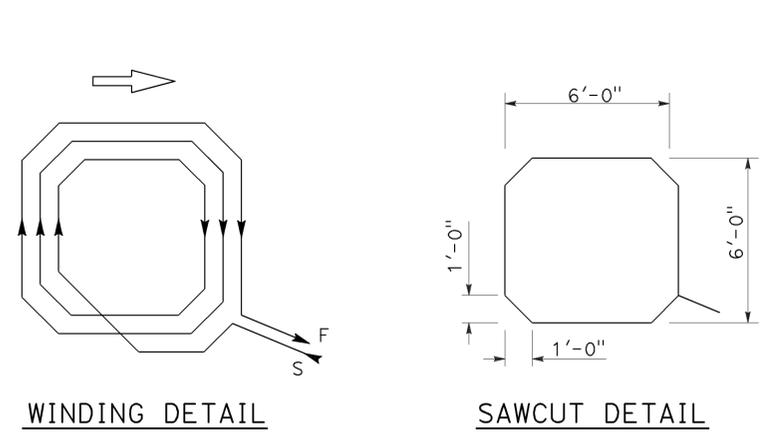
2010 REVISED STANDARD PLAN RSP ES-5A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	61	68

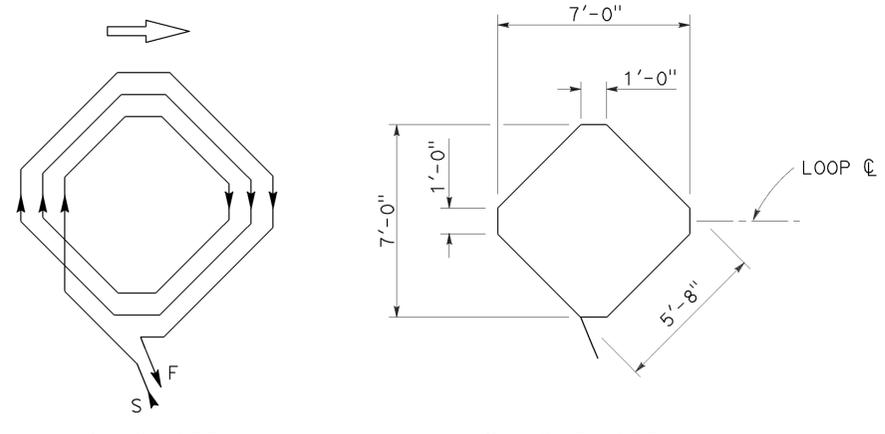
Theresa Gabriel
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 October 30, 2015
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REGISTERED PROFESSIONAL ENGINEER
 Theresa Aziz Gabriel
 No. E15129
 Exp. 6-30-16
 ELECTRICAL
 STATE OF CALIFORNIA

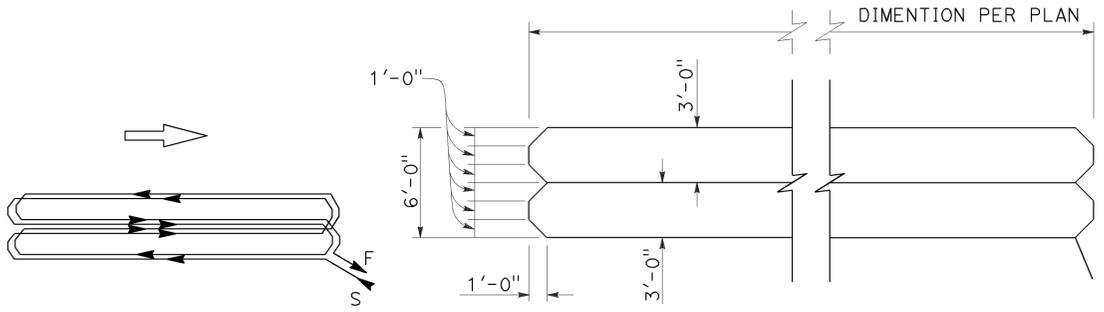
TO ACCOMPANY PLANS DATED 4-4-16



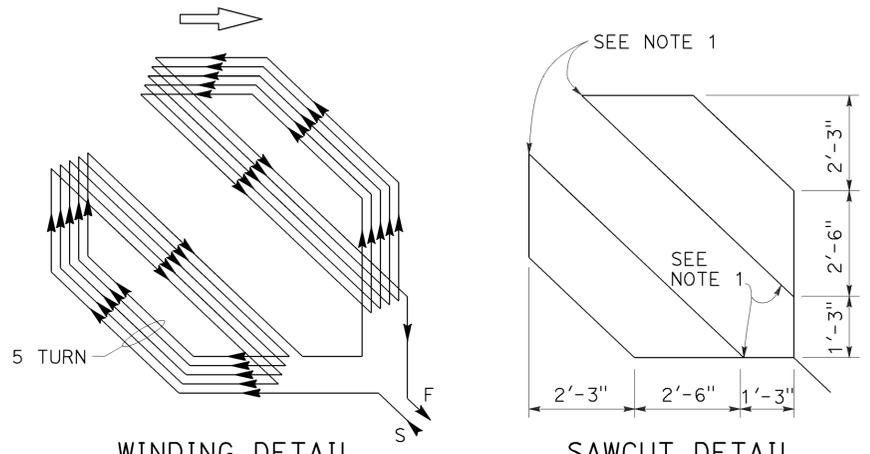
WINDING DETAIL
SAWCUT DETAIL
TYPE A LOOP DETECTOR CONFIGURATION



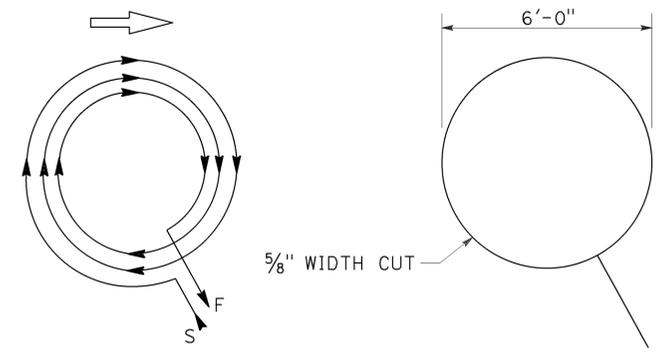
WINDING DETAIL
SAWCUT DETAIL
TYPE B LOOP DETECTOR CONFIGURATION



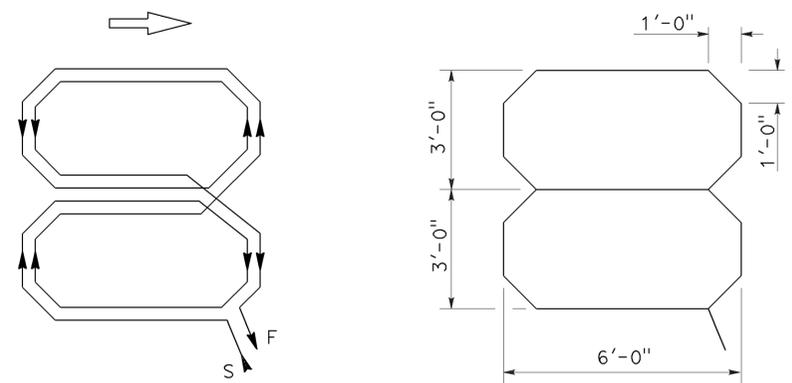
WINDING DETAIL
SAWCUT DETAIL
TYPE C LOOP DETECTOR CONFIGURATION



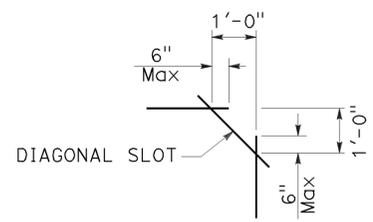
WINDING DETAIL
SAWCUT DETAIL
TYPE D LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE E LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE Q LOOP DETECTOR CONFIGURATION



**PLAN VIEW OF
DIAGONAL SLOT
AT CORNERS**

- NOTES:**
1. Round corners of acute angle sawcuts to prevent damage to conductors.
 2. Typical distance separating loops from edge to edge is 10' for Type A, B, D and E installation in single lane.
 3. Use Type D loops for limit line detector installations in left turn and bicycle lanes.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(DETECTORS)**
NO SCALE

RSP ES-5B DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-5B DATED JULY 19, 2013 AND STANDARD PLAN ES-5B DATED MAY 20, 2011 - PAGE 449 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-5B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	62	68

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REGISTERED ELECTRICAL ENGINEER

October 30, 2015
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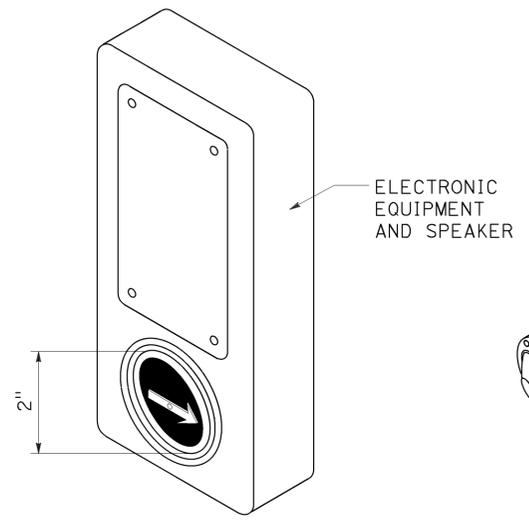
Theresa
Aziz Gabriel
No. E15129
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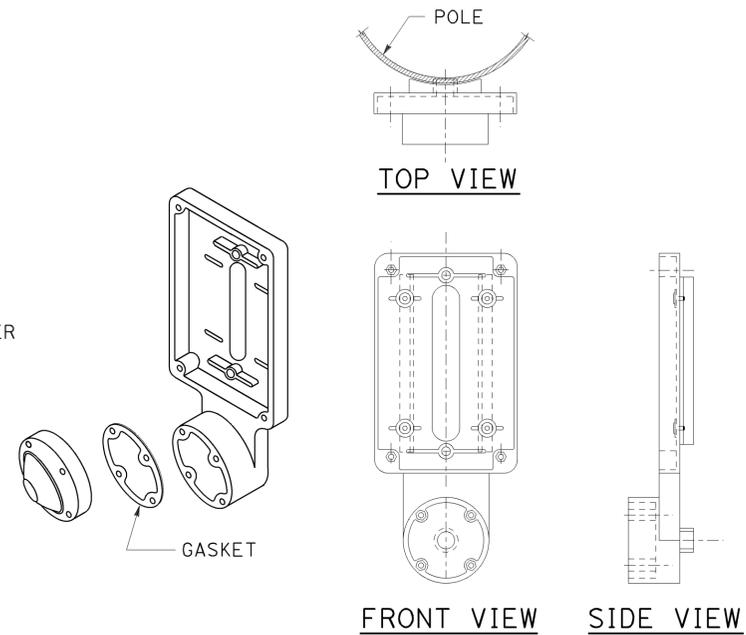
TO ACCOMPANY PLANS DATED 4-4-16

NOTES:

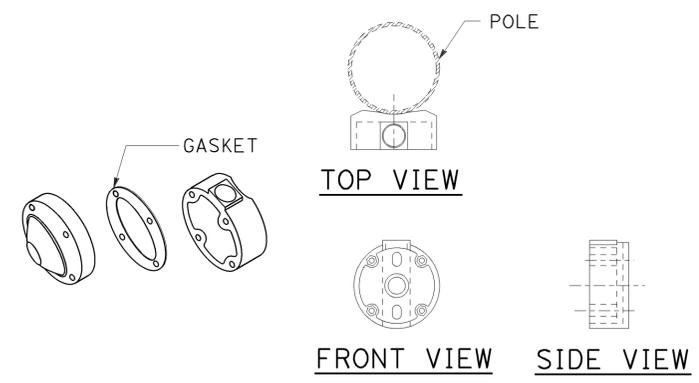
1. Back casting shape to fit curvature of pole.
2. Provide cover fitting for top of post, when PBA is mounted on push button assembly post.
3. Install push button on crosswalk side of standard.
4. Use R10 series regulatory signs and plaques for pedestrian and bicycle facilities.



ACCESSIBLE PEDESTRIAN SIGNAL
DETAIL A



TYPE B PUSH BUTTON ASSEMBLY
DETAIL B



TYPE C PUSH BUTTON ASSEMBLY
DETAIL C

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(ACCESSIBLE PEDESTRIAN SIGNAL
AND PUSH BUTTON ASSEMBLIES)**

NO SCALE

RSP ES-5C DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-5C DATED JULY 19, 2013 AND STANDARD PLAN ES-5C DATED MAY 20, 2011 - PAGE 450 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5C

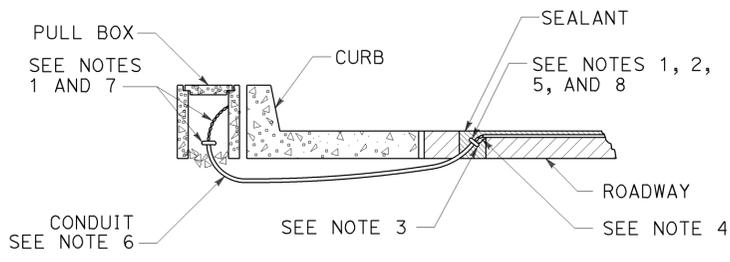
2010 REVISED STANDARD PLAN RSP ES-5C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	63	68

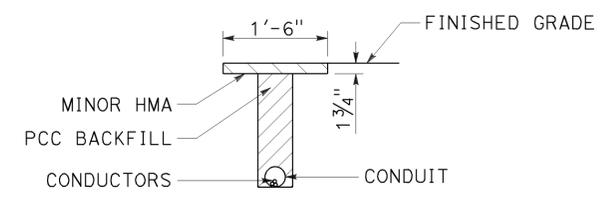
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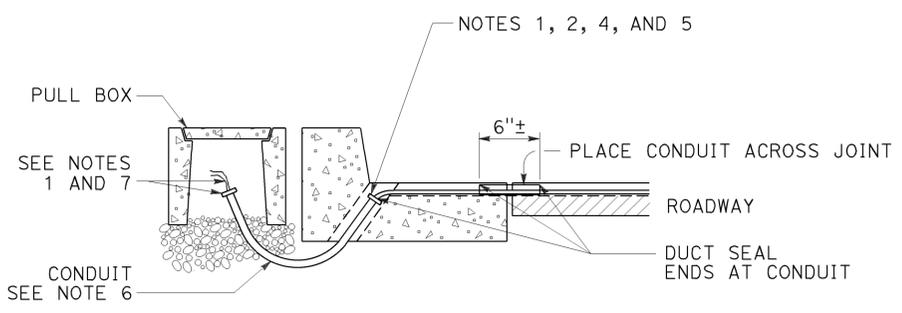
TO ACCOMPANY PLANS DATED 4-4-16



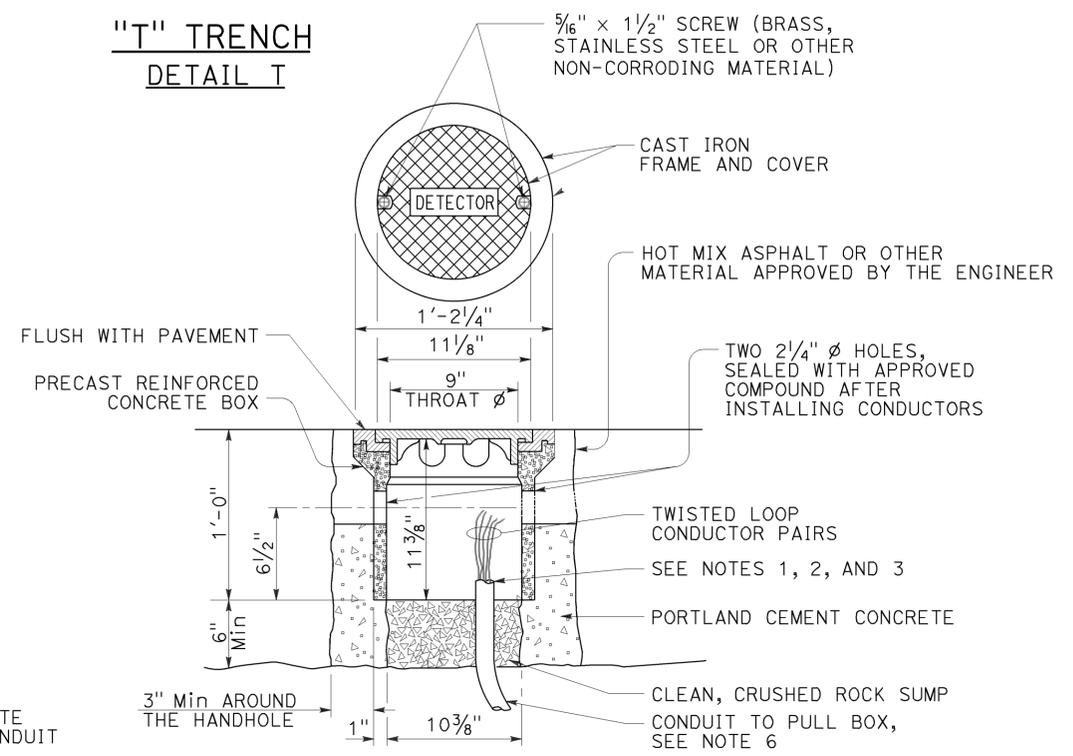
**TYPE A
CURB TERMINATION DETAIL**



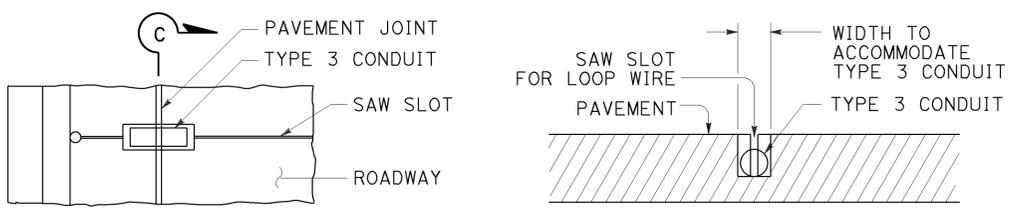
**"T" TRENCH
DETAIL 1**



CROSS SECTION



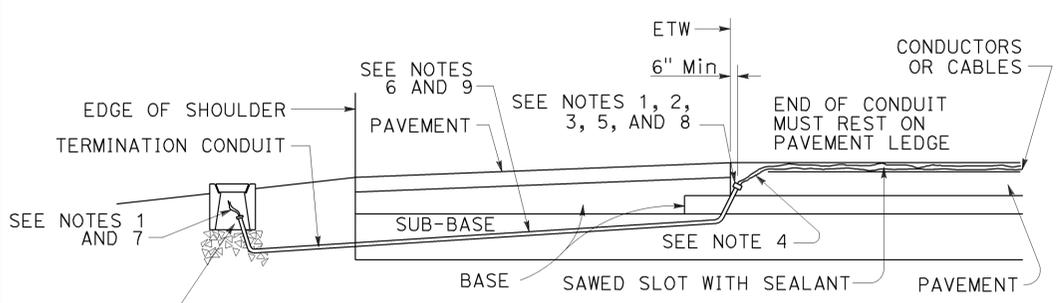
DETECTOR HANDHOLE DETAIL



PLAN VIEW

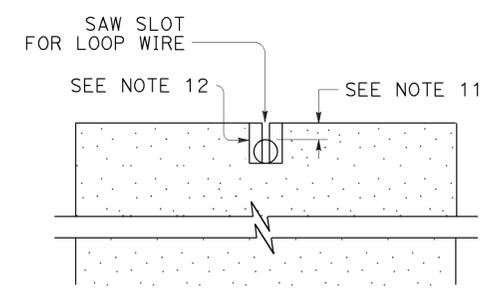
SECTION C-C

**TYPE B
CURB TERMINATION DETAIL**

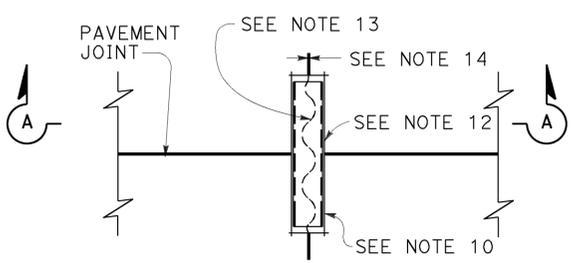


CROSS SECTION

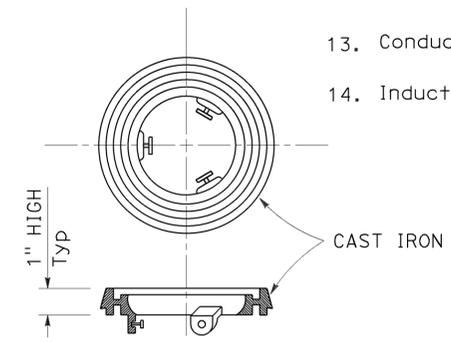
**PLAN VIEW
SHOULDER TERMINATION DETAILS**



SECTION A-A



**PLAN VIEW
TYPICAL LOOP LEAD-IN DETAIL
AT PAVEMENT JOINT**



LOCKING GRADE RING

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(CURB AND SHOULDER TERMINATION,
TRENCH, AND HANDHOLE DETAILS)**

NO SCALE

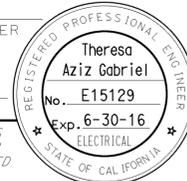
RSP ES-5D DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-5D DATED JULY 19, 2013 AND STANDARD PLAN ES-5D DATED MAY 20, 2011 - PAGE 451 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5D

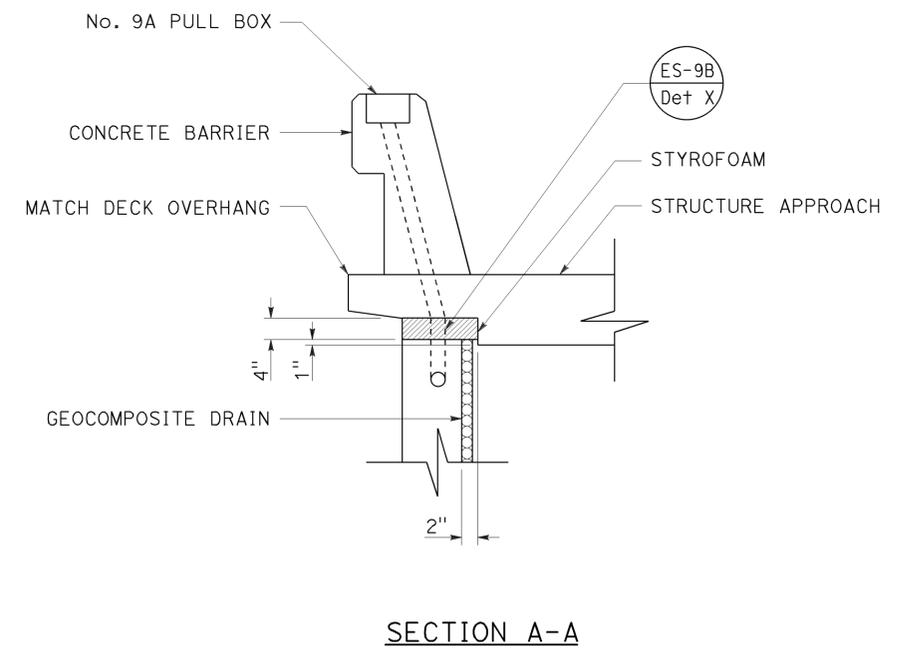
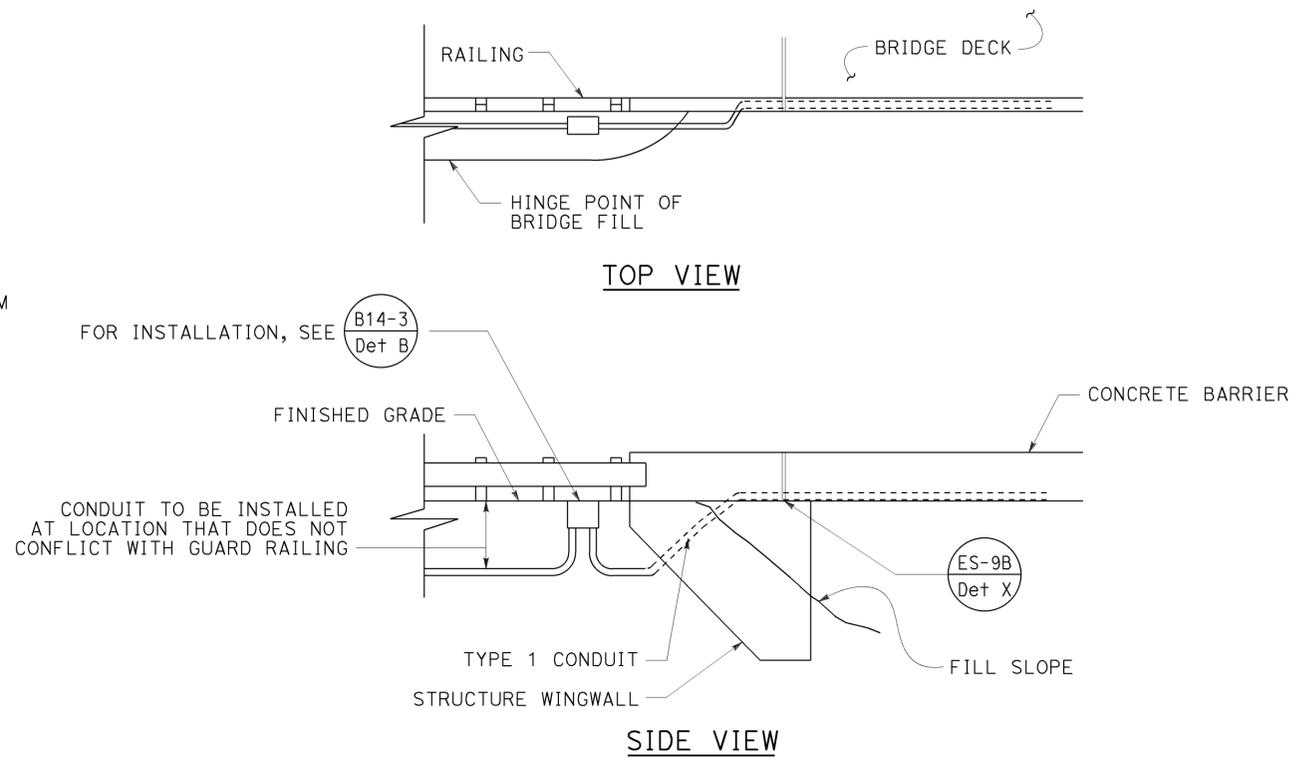
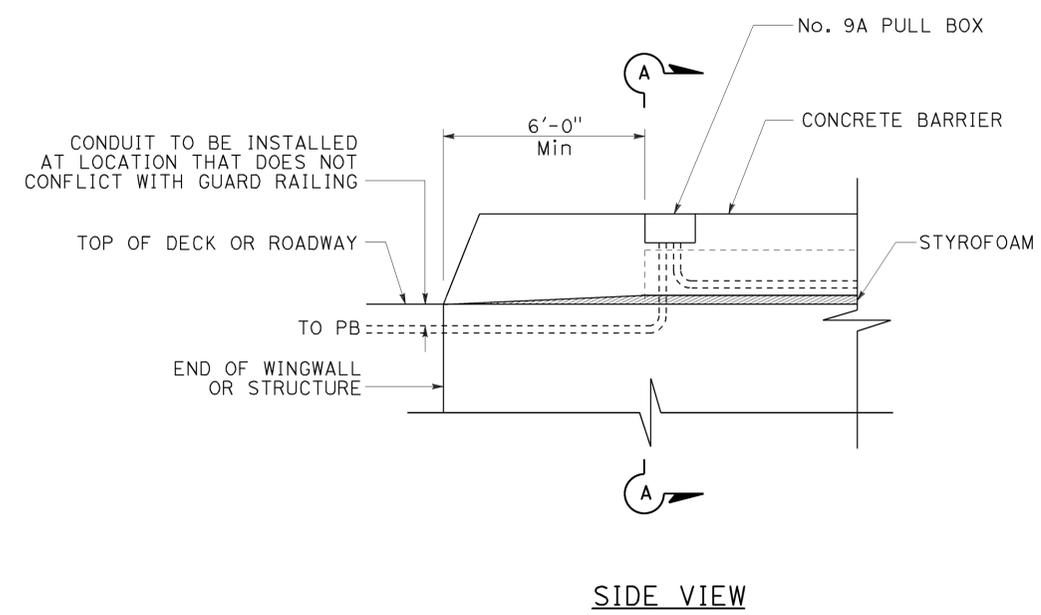
2010 REVISED STANDARD PLAN RSP ES-5D

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	64	68

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 October 30, 2015
 PLANS APPROVAL DATE
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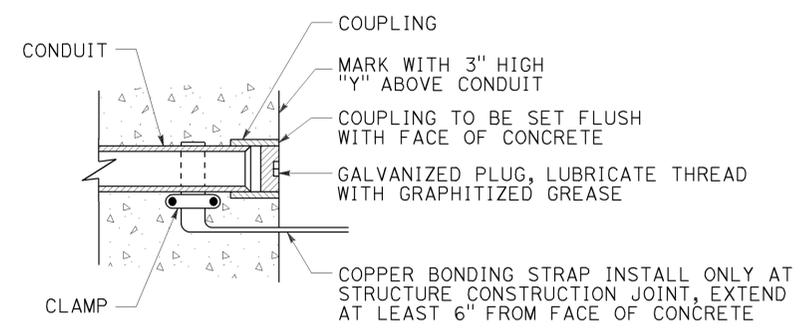


TO ACCOMPANY PLANS DATED 4-4-16



**CONDUIT TERMINATION
DETAIL A**

**CONDUIT TERMINATION
DETAIL I**



**CONDUIT TERMINATION
DETAIL C**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(STRUCTURE PULL BOX
INSTALLATIONS)**

NO SCALE

RSP ES-9A DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN ES-9A DATED MAY 20, 2011 - PAGE 481 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-9A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	65	68

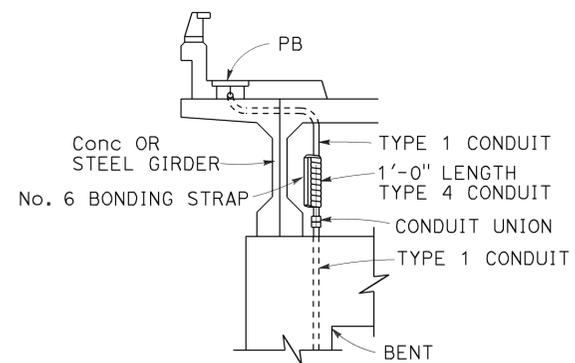
Jagwinder & Co
REGISTERED ELECTRICAL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

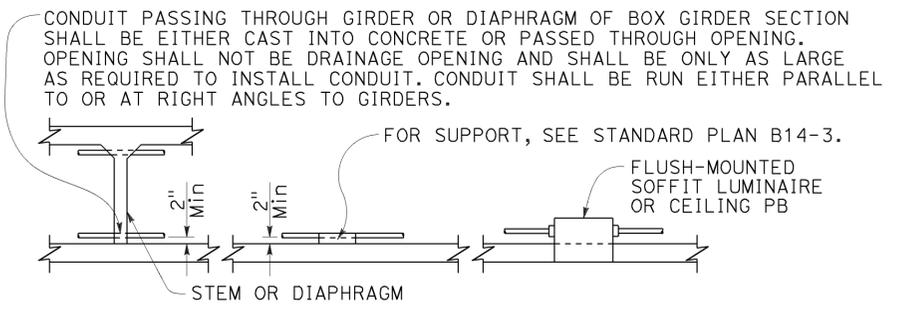
Jagwinder S. Gill
No. E18551
Exp. 12-31-16
ELECTRICAL
STATE OF CALIFORNIA

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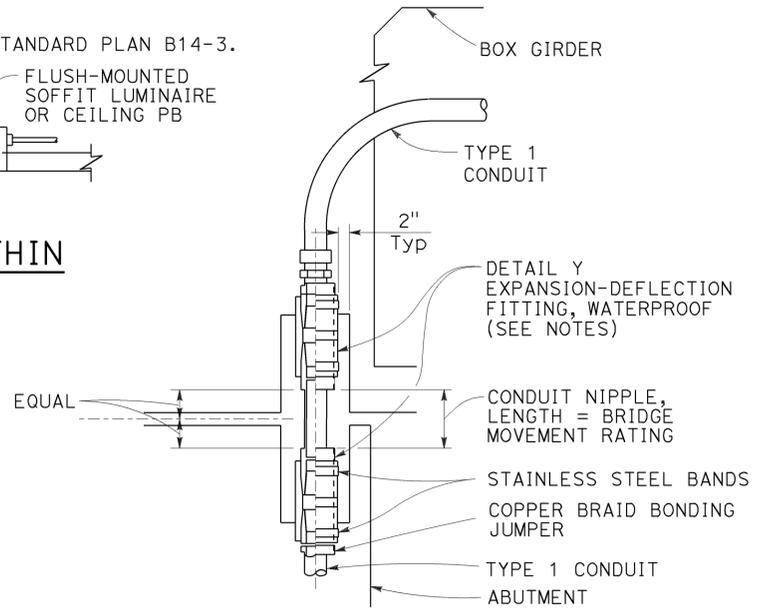
TO ACCOMPANY PLANS DATED 4-4-16



CONDUIT RISER CONNECTION
DETAIL R

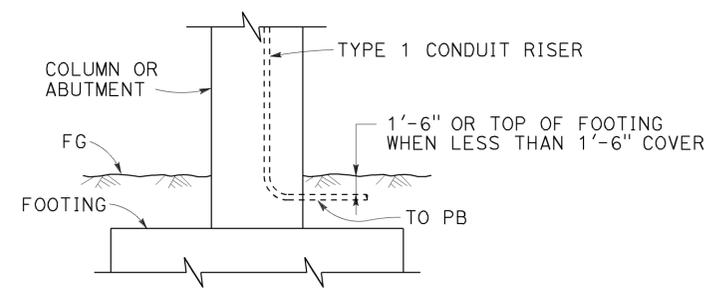


CONDUIT INSTALLATION WITHIN BOX GIRDER SECTIONS
DETAIL S

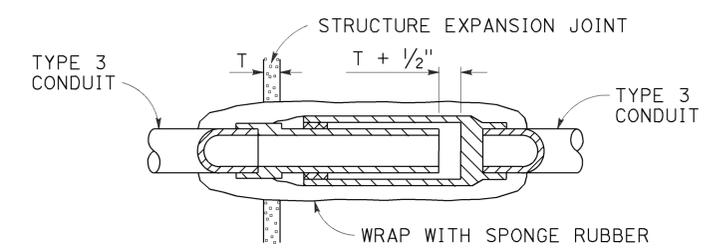


- NOTES:**
1. Fitting and pocket required only where movement can occur between girder and abutment.
 2. Fill pocket around fitting with resilient waterproof compound.

CONDUIT RISER CONNECTION AT COLUMN, ABUTMENT OR STRUCTURE WING WALL
DETAIL U

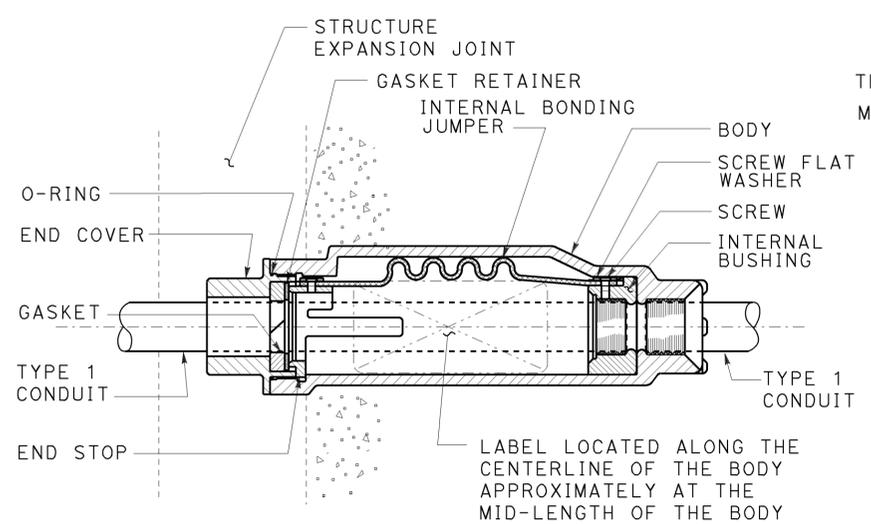


LOWER END OF CONDUIT RISER AT COLUMN OR ABUTMENT
DETAIL T

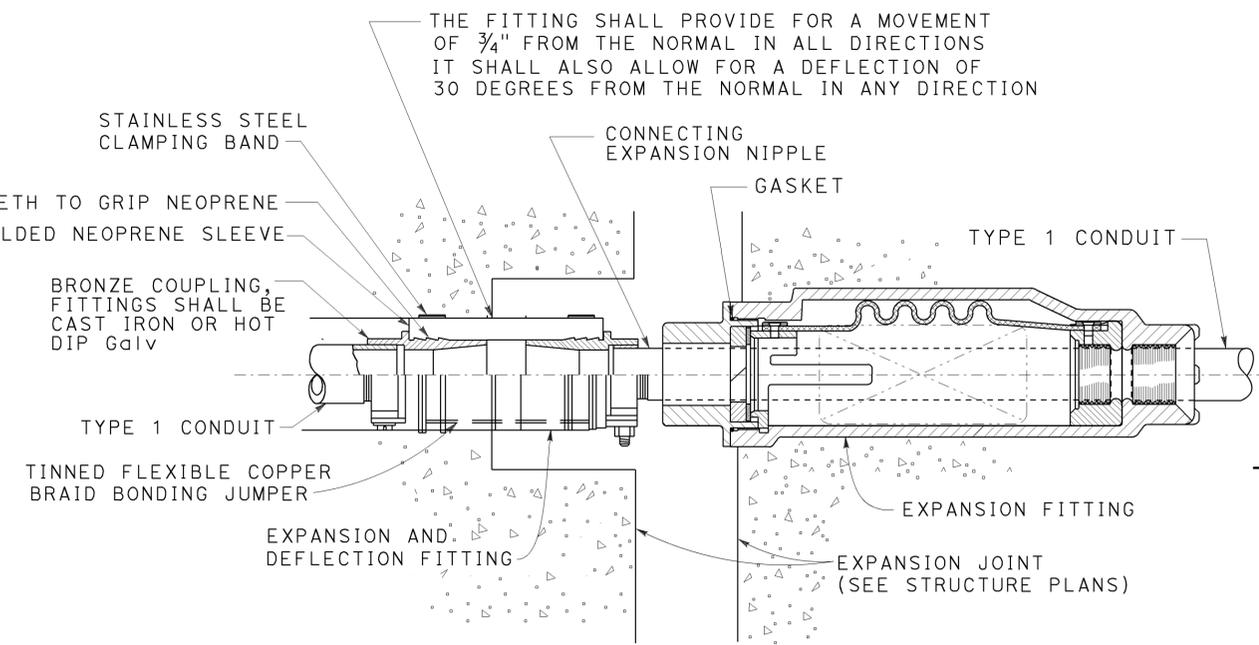


NON-METALLIC CONDUIT EXPANSION FITTING INSTALLATION DETAIL
DETAIL V

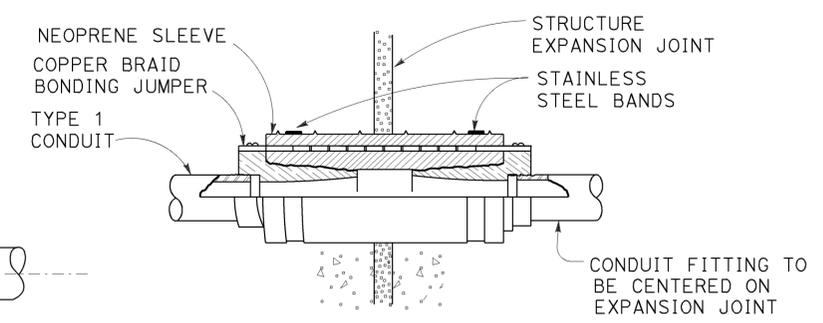
To be used only when shown or specified on Project Plans



CONDUIT EXPANSION FITTING
DETAIL X



COMBINATION EXPANSION-DEFLECTION FITTINGS METALLIC CONDUIT INSTALLATION
DETAIL XY



CONDUIT EXPANSION-DEFLECTION FITTING
DETAIL Y

NOTES:

1. Except for sidewalk joints, a conduit expansion fitting or expansion-deflection fitting shall be installed at each 1/2" or greater structure joint, hinge or abutment.
2. Fittings or combination of fittings shall be installed to accommodate the movement rating as shown on the structure plans.
3. Fittings shall be installed parallel to superstructure girders.
4. Where lateral movement greater than 1/4" may occur, a neoprene sleeve expansion-deflection fitting shall be installed straddling the joint.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (CONDUIT RISER AND EXPANSION FITTING, STRUCTURE INSTALLATIONS)
NO SCALE

RSP ES-9B DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN ES-9B DATED MAY 20, 2011 - PAGE 482 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-9B

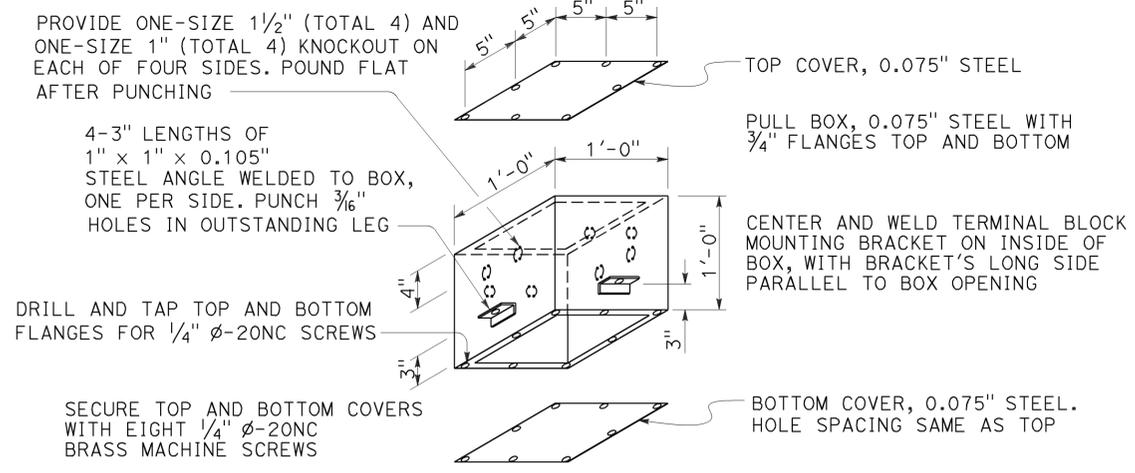
2010 REVISED STANDARD PLAN RSP ES-9B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	66	68

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 No. E15129
 Exp. 6-30-16
 ELECTRICAL
 STATE OF CALIFORNIA

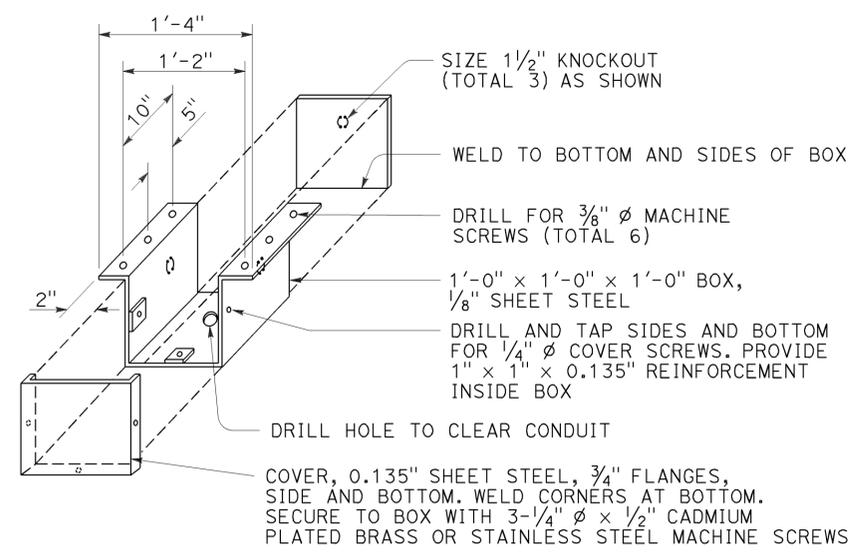
October 30, 2015
 PLANS APPROVAL DATE

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No. 7 CEILING PULL BOX

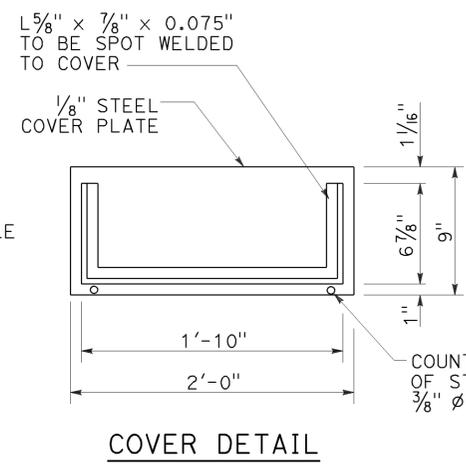
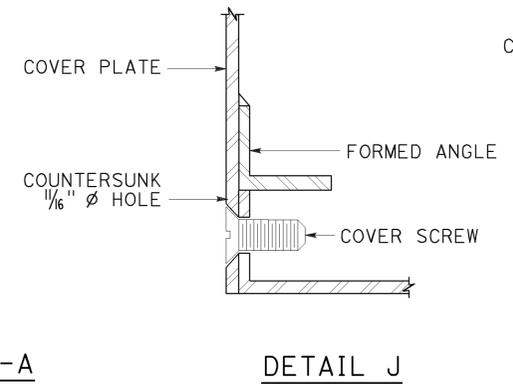
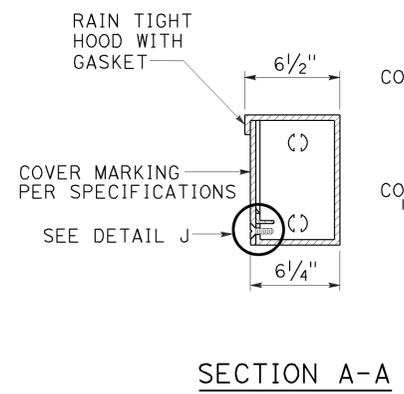
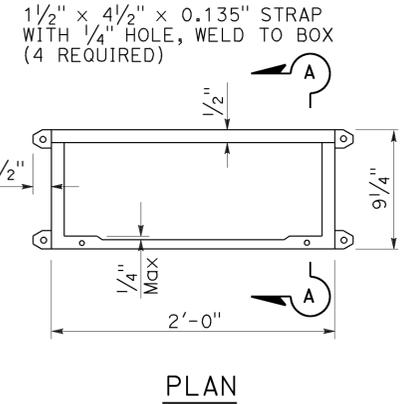
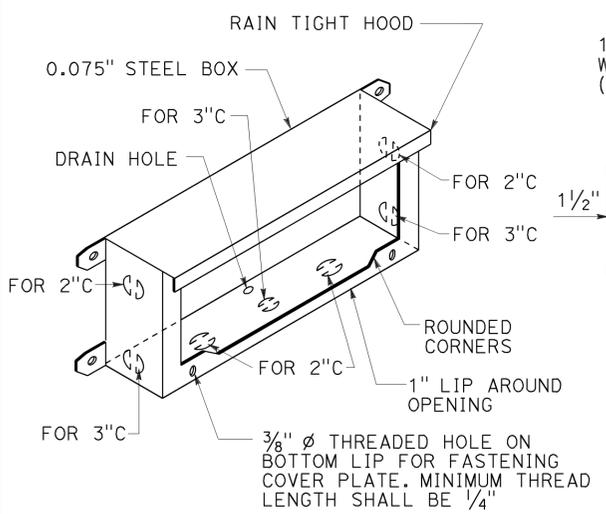
See Note 6



No. 8 PULL BOX

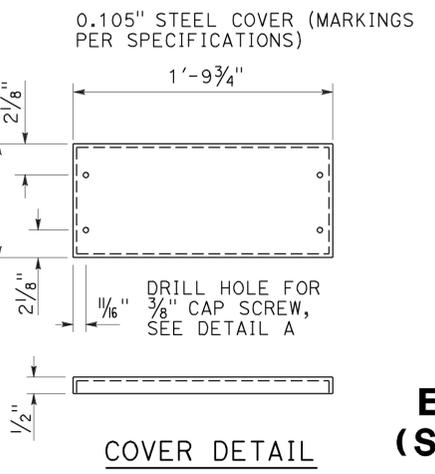
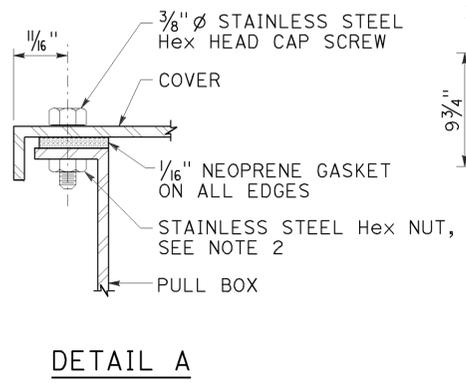
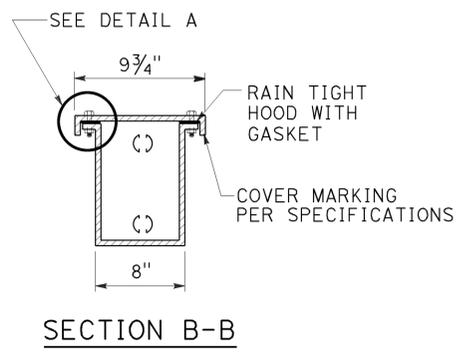
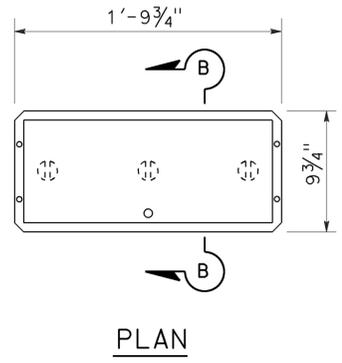
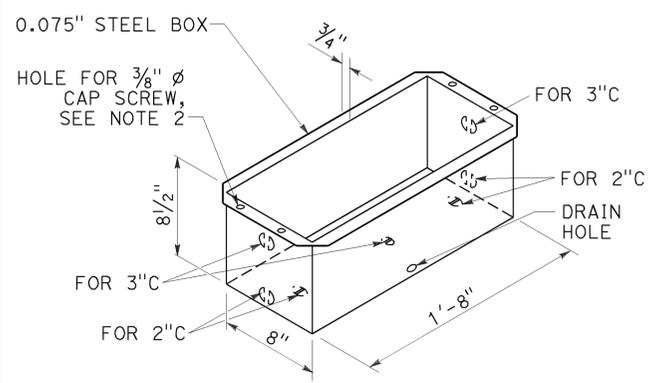
NOTES:

- Corner joints shall be lapped and secured by spot welding or riveting.
- Where cap screws are used to attach cover to box, either of the following methods of providing adequate threading may be used:
 - Tack weld stainless steel Hex nut to bottom of flange (total 4)
 - Tack weld a 1/4" x 5/8" x 8" bar beneath flange (total 2)
- Pound knockouts flat after punching.
- Multiple size knockouts (concentric) shall not be permitted.
- Pull box covers shall be marked as specified on Revised Standard Plans RSP ES-8A and RSP ES-8B.
- Installation of No. 7 pull box:
 - Install with bottom flange flush with concrete.
 - Both covers shall be on a box during pouring.
- Install box parallel to top of railing. Cover box during pouring with 1/4" plywood of sufficient size to provide 1:1 chamfer on 3 sides of cover. Upper edge of plywood shall fit against lower edge of rain tight hood.



No. 9 STRUCTURE PULL BOX

See Note 7



No. 9A STRUCTURE PULL BOX

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (STRUCTURE PULL BOX)

NO SCALE

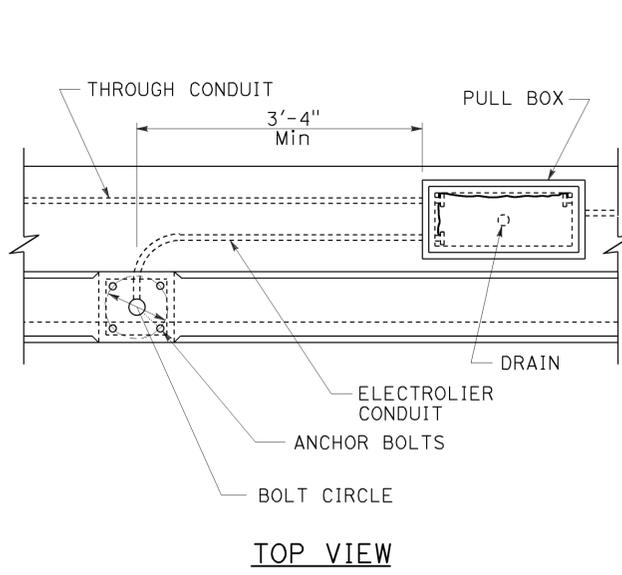
RSP ES-9C DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN ES-9C DATED MAY 20, 2011 - PAGE 483 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-9C

2010 REVISED STANDARD PLAN RSP ES-9C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	67	68

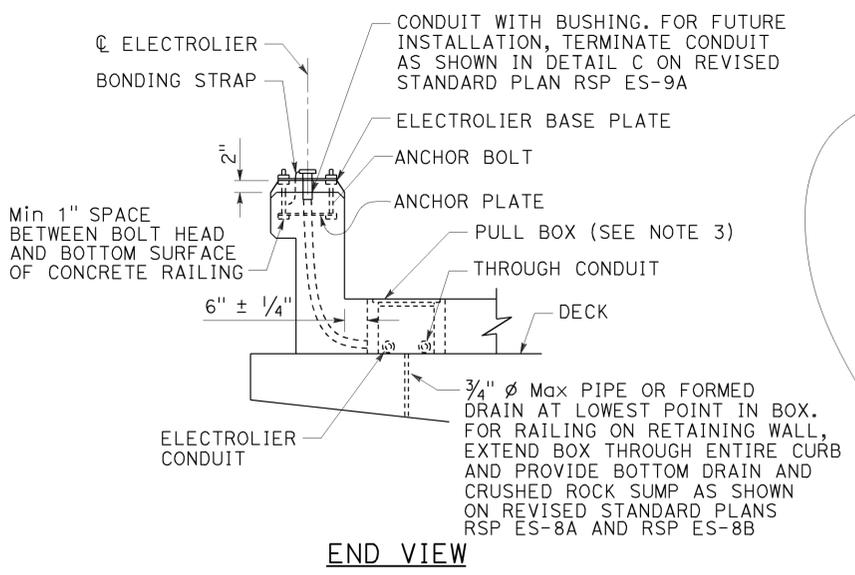
Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 October 30, 2015
 PLANS APPROVAL DATE
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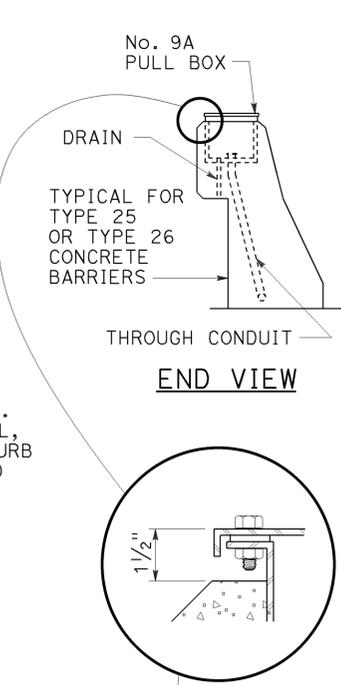
TOP VIEW

No. 3 1/2, 5, OR 6 PULL BOX INSTALLATION

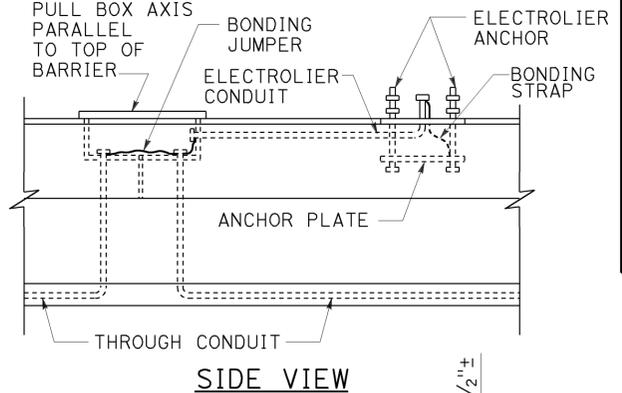
DETAIL A



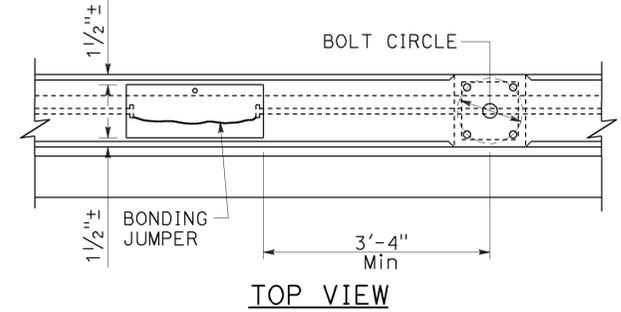
END VIEW



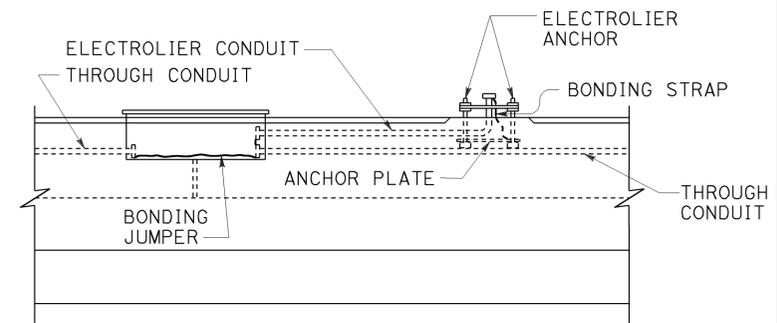
END VIEW



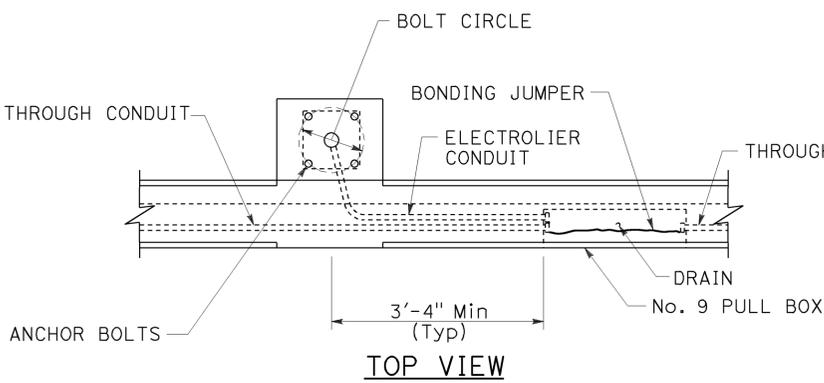
SIDE VIEW



TOP VIEW



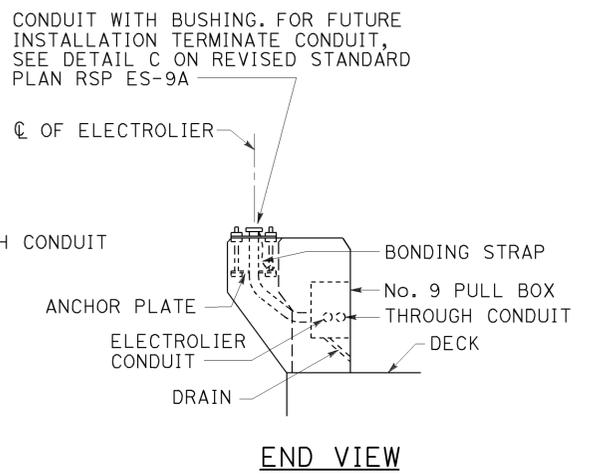
SIDE VIEW



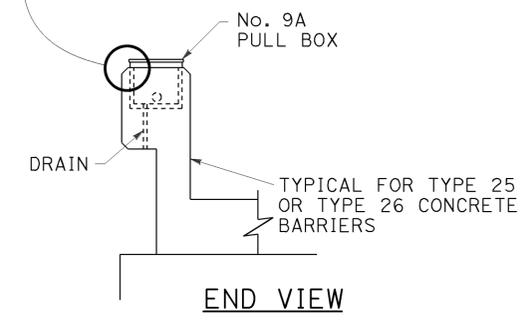
TOP VIEW

No. 9 PULL BOX INSTALLATION

DETAIL B



END VIEW



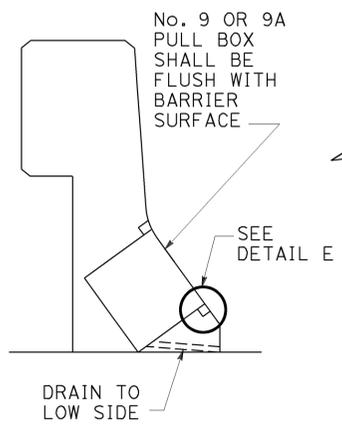
END VIEW

No. 9A PULL BOX INSTALLATION

DETAIL C

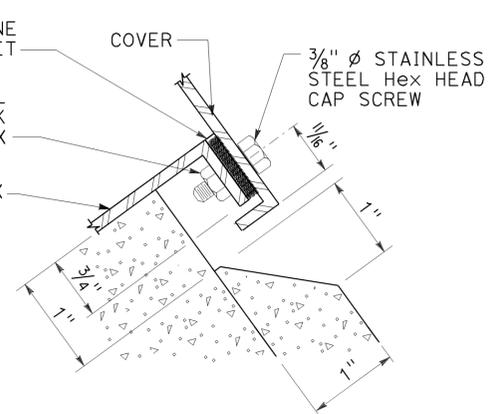
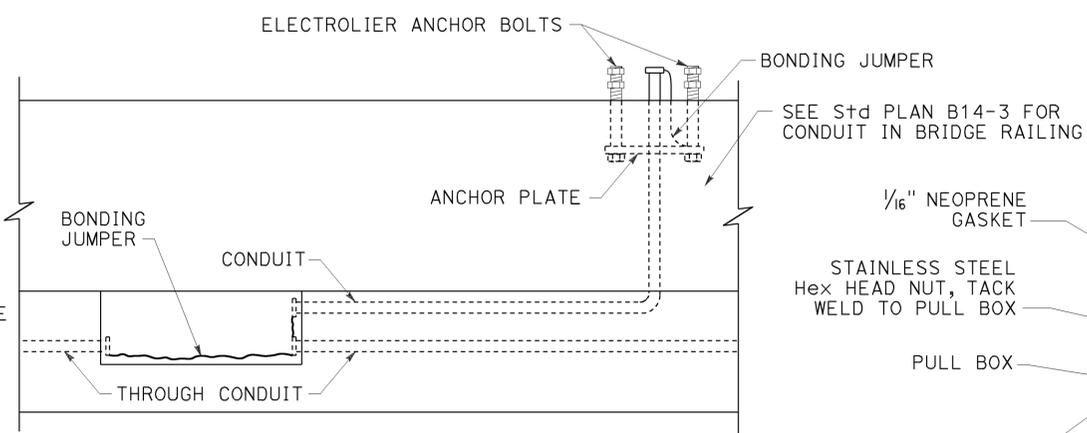
NOTES:

1. Axis of pull box shall be parallel to top of barrier, sidewalk or railing.
2. See railing sheet for reinforcement and structural details at electroliers and pull boxes.
3. Top of pull boxes in sidewalk areas shall be flush with sidewalk. Modify base of pull box as required.
4. Boxes inside of vertical barrier or railing shall be closed during pouring of PCC with 1/4" plywood of sufficient size to provide 1:1 chamfer on 3 sides of cover. Upper edge of plywood shall fit against lower edge of raintight hood.
5. Use drain in center if box is horizontal, or at low end if box is inclined. When box is mounted in sloping parapet 1/2" elongated drain hole inside at center or near end as required for drainage.
6. For electrolier anchorage bolts and grouting details, see Standard Plan ES-6B.
7. See Standard Plan B14-3 for conduit in concrete barrier.



INSTALLATION IN SLOPING PARAPETS

DETAIL D



DETAIL E

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(STRUCTURE PULL BOX
INSTALLATIONS)**

NO SCALE

RSP ES-9D DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN ES-9D DATED MAY 20, 2011 - PAGE 484 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-9D

2010 REVISED STANDARD PLAN RSP ES-9D

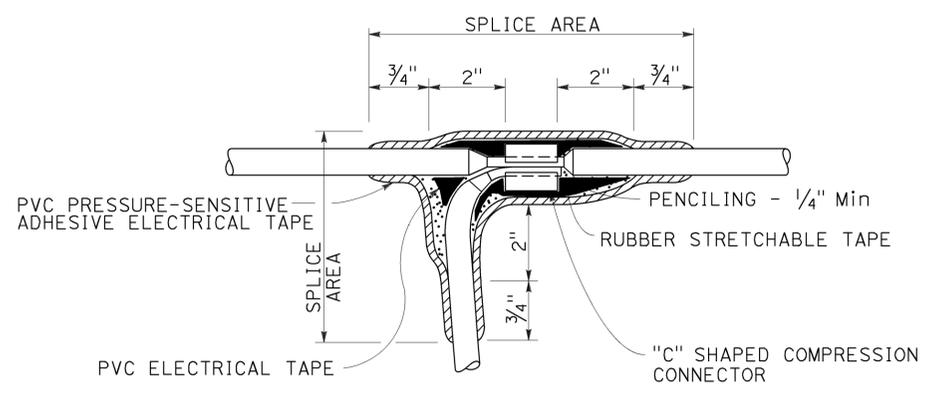
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	237	6.9/R9.2	68	68

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 Theresa
 Aziz Gabriel
 No. E15129
 Exp. 6-30-16
 ELECTRICAL
 STATE OF CALIFORNIA

October 30, 2015
 PLANS APPROVAL DATE

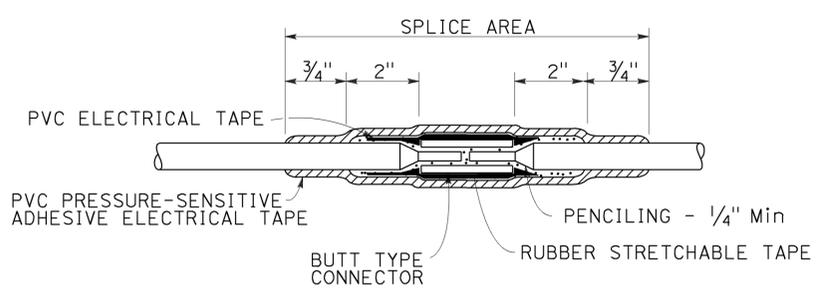
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TO ACCOMPANY PLANS DATED 4-4-16



TYPE C SPLICE

See Note 3

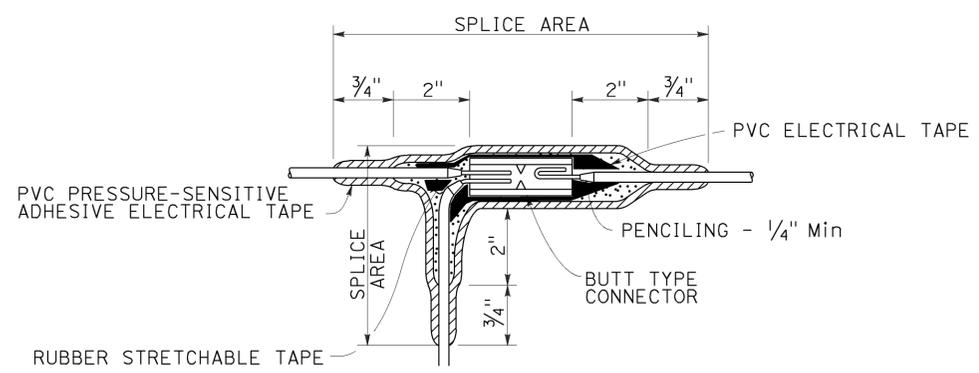


TYPE S SPLICE

See Note 4

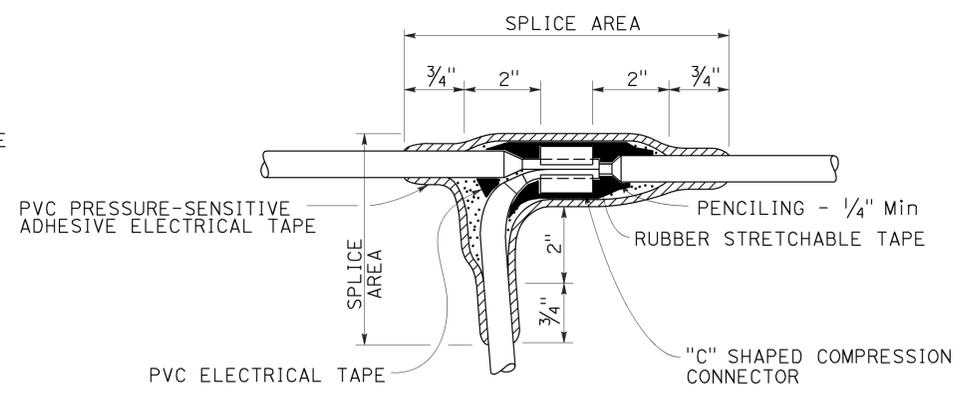
NOTES:

1. Dimensions are minimum.
2. Rubber tapes shall be rolled after application.
3. Between 1 free-end and 1 through conductor.
4. Between 2 free-end conductors.
5. Between 3 free-end conductors.



TYPE ST SPLICE

See Note 5



TYPE T SPLICE

See Note 5

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SPLICING DETAILS)**
 NO SCALE

RSP ES-13A DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN ES-13A DATED MAY 20, 2011 - PAGE 491 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-13A

2010 REVISED STANDARD PLAN RSP ES-13A