

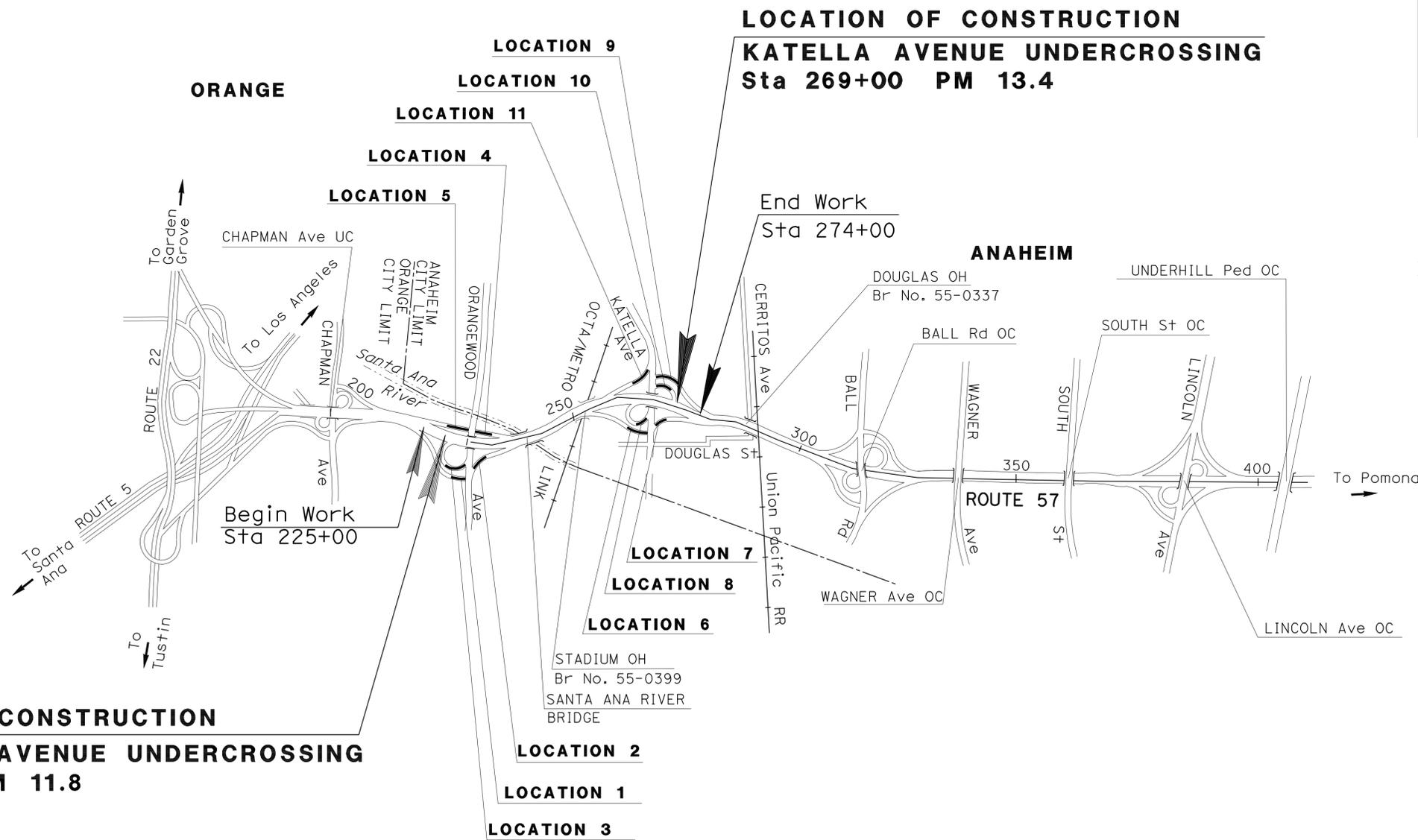
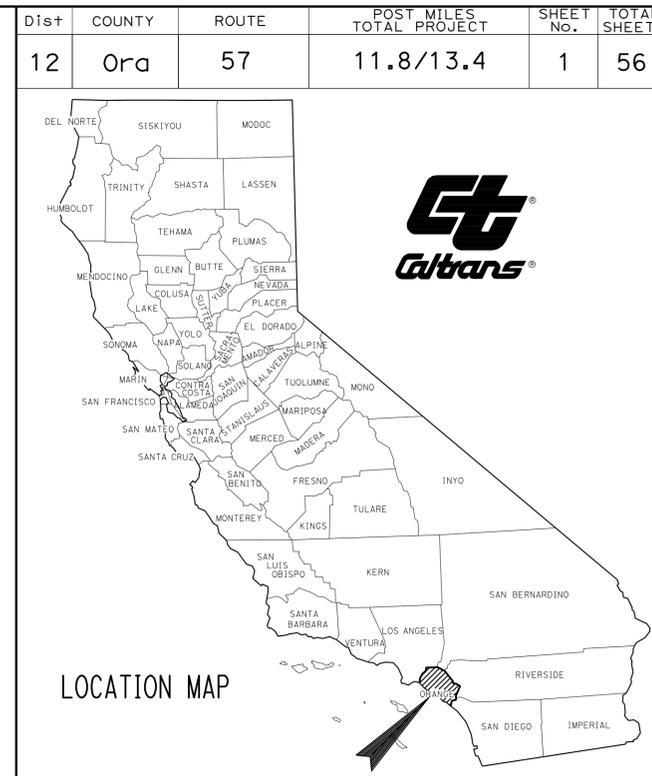
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	LAYOUTS
4-15	CONSTRUCTION DETAILS
16	CONSTRUCTION AREA SIGNS
17-29	DETOUR PLANS AND QUANTITIES
30-34	PAVEMENT DELINEATION PLAN, DETAILS AND QUANTITIES
35	SUMMARY OF QUANTITIES
36-39	ELECTRICAL PLANS
40-56	REVISED AND NEW STANDARD PLANS

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

STATE OF CALIFORNIA ACNH-P057(058)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ORANGE COUNTY
IN ANAHEIM
AT ORANGEWOOD AVENUE UNDERCROSSING
AND AT KATELLA AVENUE UNDERCROSSING

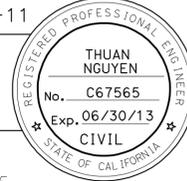
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER
BOB BARZAGAN

DESIGN ENGINEER
THUAN NGUYEN

Thuan N. Nguyen 12-29-11
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
February 13, 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.



LOCATION OF CONSTRUCTION
ORANGEWOOD AVENUE UNDERCROSSING
Sta 230+00 PM 11.8

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

NO SCALE

DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 12:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	2	56

Thuan N. Nguyen 01-06-2012
 REGISTERED CIVIL ENGINEER DATE
 2-13-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 THUAN NGUYEN
 No. C67565
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

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

NOTE

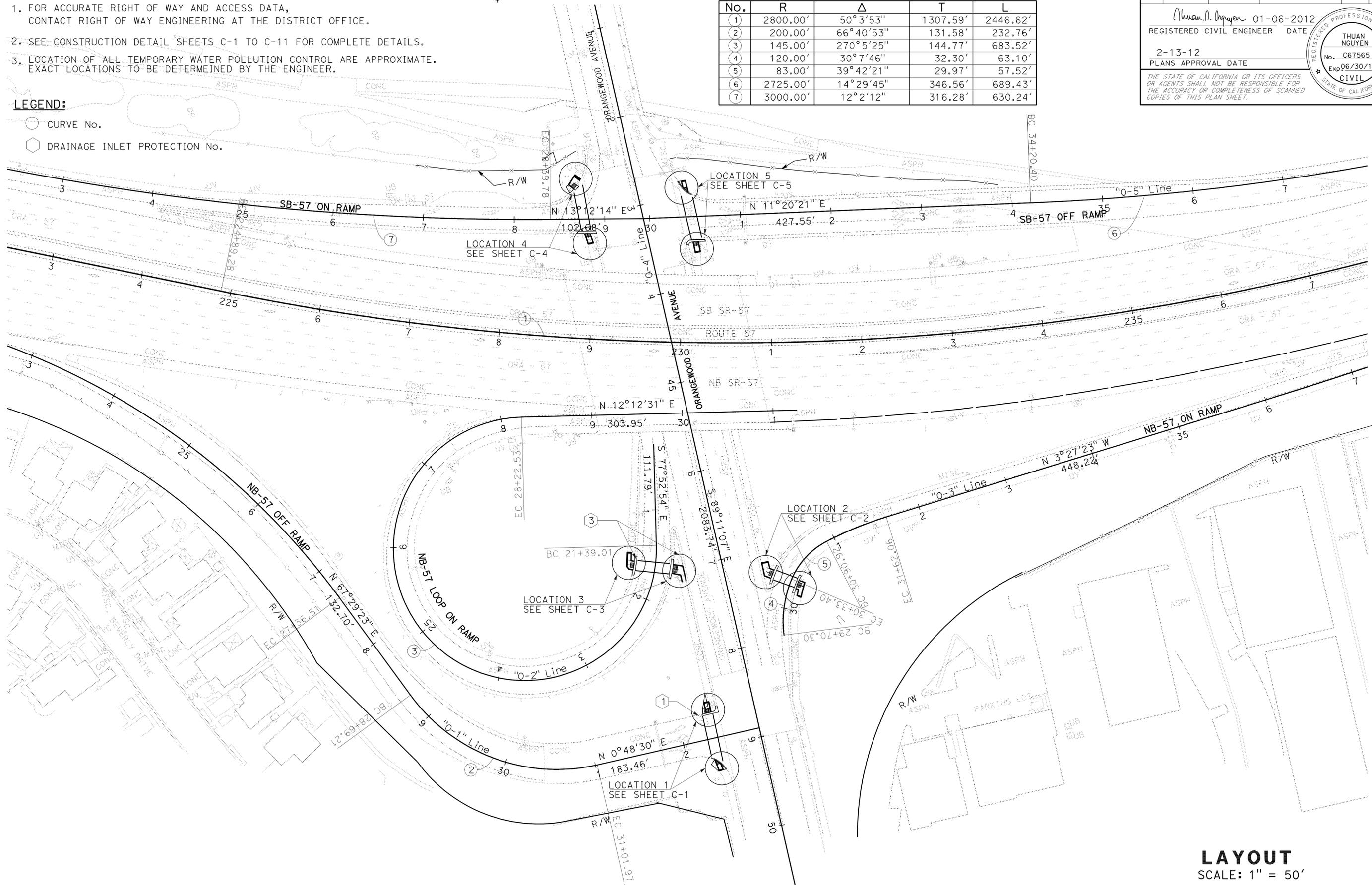
- FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- SEE CONSTRUCTION DETAIL SHEETS C-1 TO C-11 FOR COMPLETE DETAILS.
- LOCATION OF ALL TEMPORARY WATER POLLUTION CONTROL ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

LEGEND:

- CURVE No.
- ⬡ DRAINAGE INLET PROTECTION No.

CURVE DATA

No.	R	Δ	T	L
①	2800.00'	50°3'53"	1307.59'	2446.62'
②	200.00'	66°40'53"	131.58'	232.76'
③	145.00'	270°5'25"	144.77'	683.52'
④	120.00'	30°7'46"	32.30'	63.10'
⑤	83.00'	39°42'21"	29.97'	57.52'
⑥	2725.00'	14°29'45"	346.56'	689.43'
⑦	3000.00'	12°2'12"	316.28'	630.24'



LAYOUT
SCALE: 1" = 50'

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION

FUNCTIONAL SUPERVISOR: ANDREW OSHRIN
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 THUAN T. NGUYEN
 RAJU VORA
 REVISOR: [Blank]
 DATE REVISOR: [Blank]

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION

FUNCTIONAL SUPERVISOR
 ANDREW OSHRIN

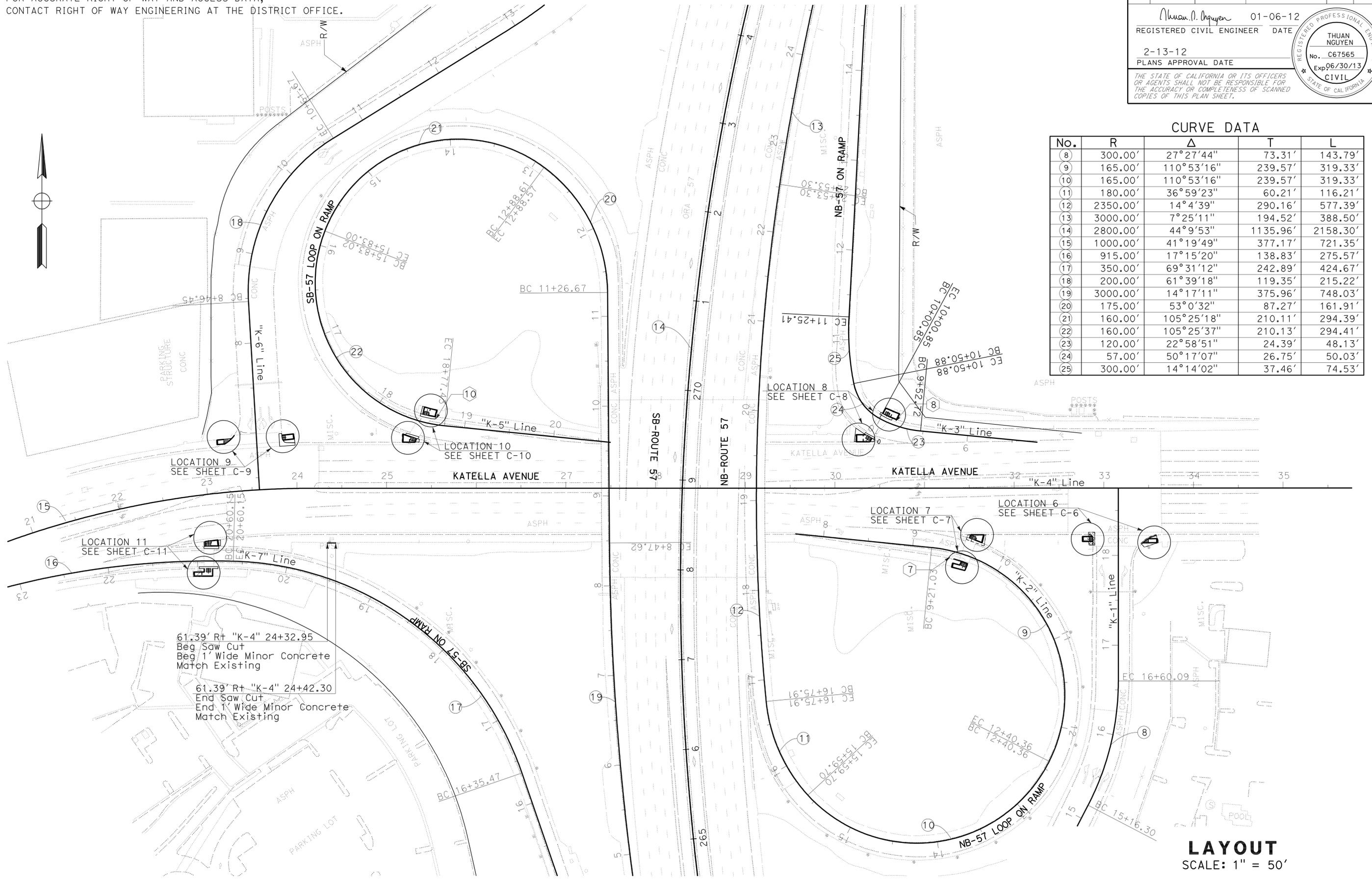
CALCULATED/DESIGNED BY
 CHECKED BY

THUAN T. NGUYEN
 RAJU VORA

REVISED BY
 DATE REVISED

NOTE

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



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	3	56

Thuan T. Nguyen 01-06-12
 REGISTERED CIVIL ENGINEER DATE
 2-13-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 THUAN NGUYEN
 No. C67565
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

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

CURVE DATA

No.	R	Δ	T	L
8	300.00'	27°27'44"	73.31'	143.79'
9	165.00'	110°53'16"	239.57'	319.33'
10	165.00'	110°53'16"	239.57'	319.33'
11	180.00'	36°59'23"	60.21'	116.21'
12	2350.00'	14°4'39"	290.16'	577.39'
13	3000.00'	7°25'11"	194.52'	388.50'
14	2800.00'	44°9'53"	1135.96'	2158.30'
15	1000.00'	41°19'49"	377.17'	721.35'
16	915.00'	17°15'20"	138.83'	275.57'
17	350.00'	69°31'12"	242.89'	424.67'
18	200.00'	61°39'18"	119.35'	215.22'
19	3000.00'	14°17'11"	375.96'	748.03'
20	175.00'	53°0'32"	87.27'	161.91'
21	160.00'	105°25'18"	210.11'	294.39'
22	160.00'	105°25'37"	210.13'	294.41'
23	120.00'	22°58'51"	24.39'	48.13'
24	57.00'	50°17'07"	26.75'	50.03'
25	300.00'	14°14'02"	37.46'	74.53'

61.39' Rt "K-4" 24+32.95
 Beg Saw Cut
 Beg 1' Wide Minor Concrete Match Existing

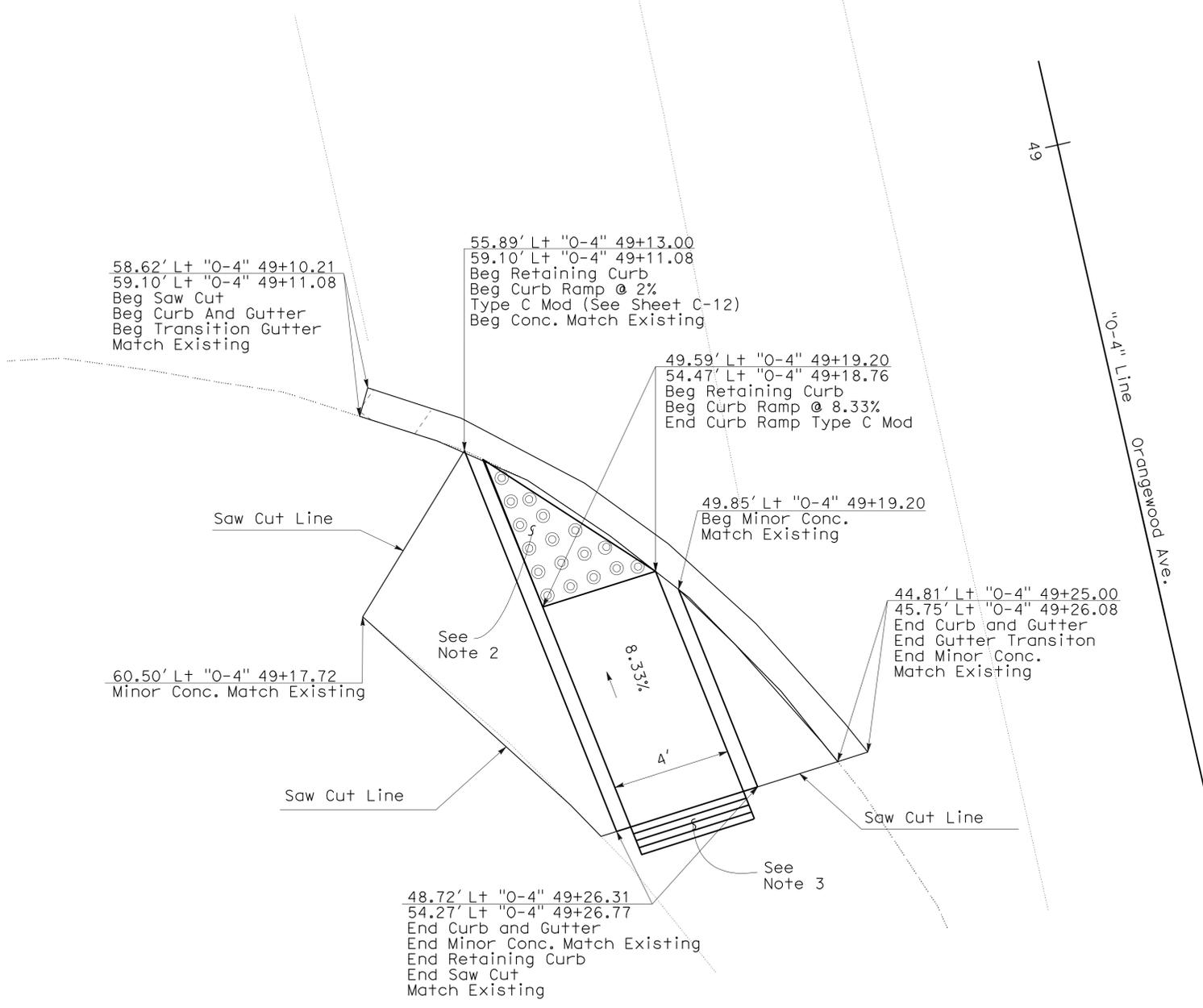
61.39' Rt "K-4" 24+42.30
 End Saw Cut
 End 1' Wide Minor Concrete Match Existing

LAYOUT
 SCALE: 1" = 50'

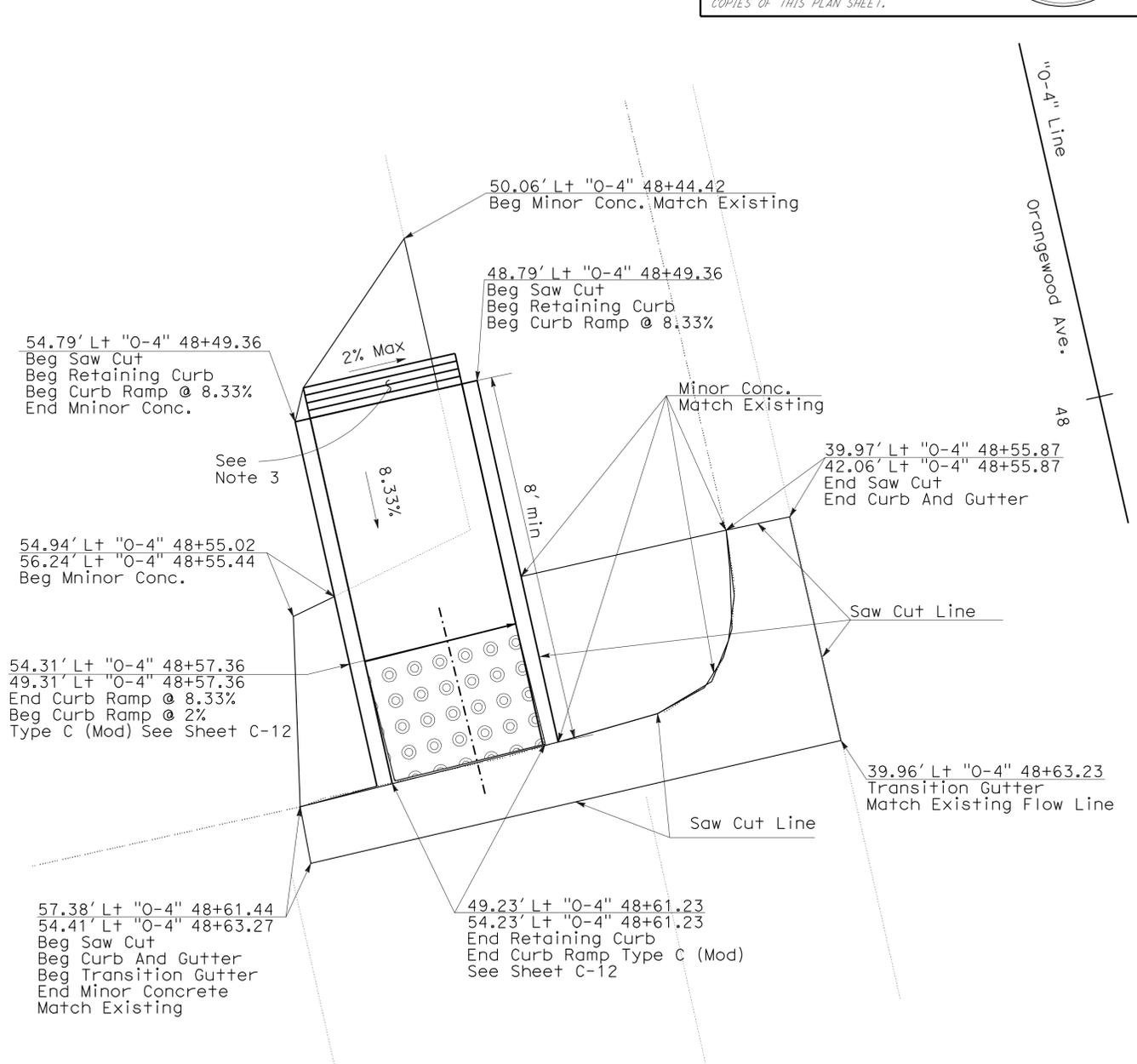
LOCATION 1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	4	56
Thuan N. Nguyen REGISTERED CIVIL ENGINEER No. C67565 Exp. 06/30/13 CIVIL			01-06-2012 DATE 2-13-12 PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
Caltrans		
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN	
CALCULATED/DESIGNED BY	CHECKED BY	
THUAN T. NGUYEN	RAJU VORA	
REVISED BY	DATE	REVISED



NB-57 OFF RAMP AT ORANGEWOOD AVENUE AT SE CORNER



NB-57 OFF RAMP AT ORANGEWOOD AVENUE AT SW CORNER

NOTES:

1. For details not shown see Revised Standard Plan RSP A88A.
2. Detectable warning surface as per Revised Standard Plan RSP A88A.
3. The curb ramp shall be outlined, as shown, with a 1'-0" wide border with 1/2" grooves approximately 3/4" on center. See grooving detail on Revised Standard Plan RSP A88A.
4. For Gutter Transition, see sheet C-12.

CONSTRUCTION DETAIL (ORANGEWOOD AVENUE) LOCATION 1

NO SCALE

C-1

LAST REVISION: 12-28-11 DATE PLOTTED => 14-FEB-2012 TIME PLOTTED => 07:03

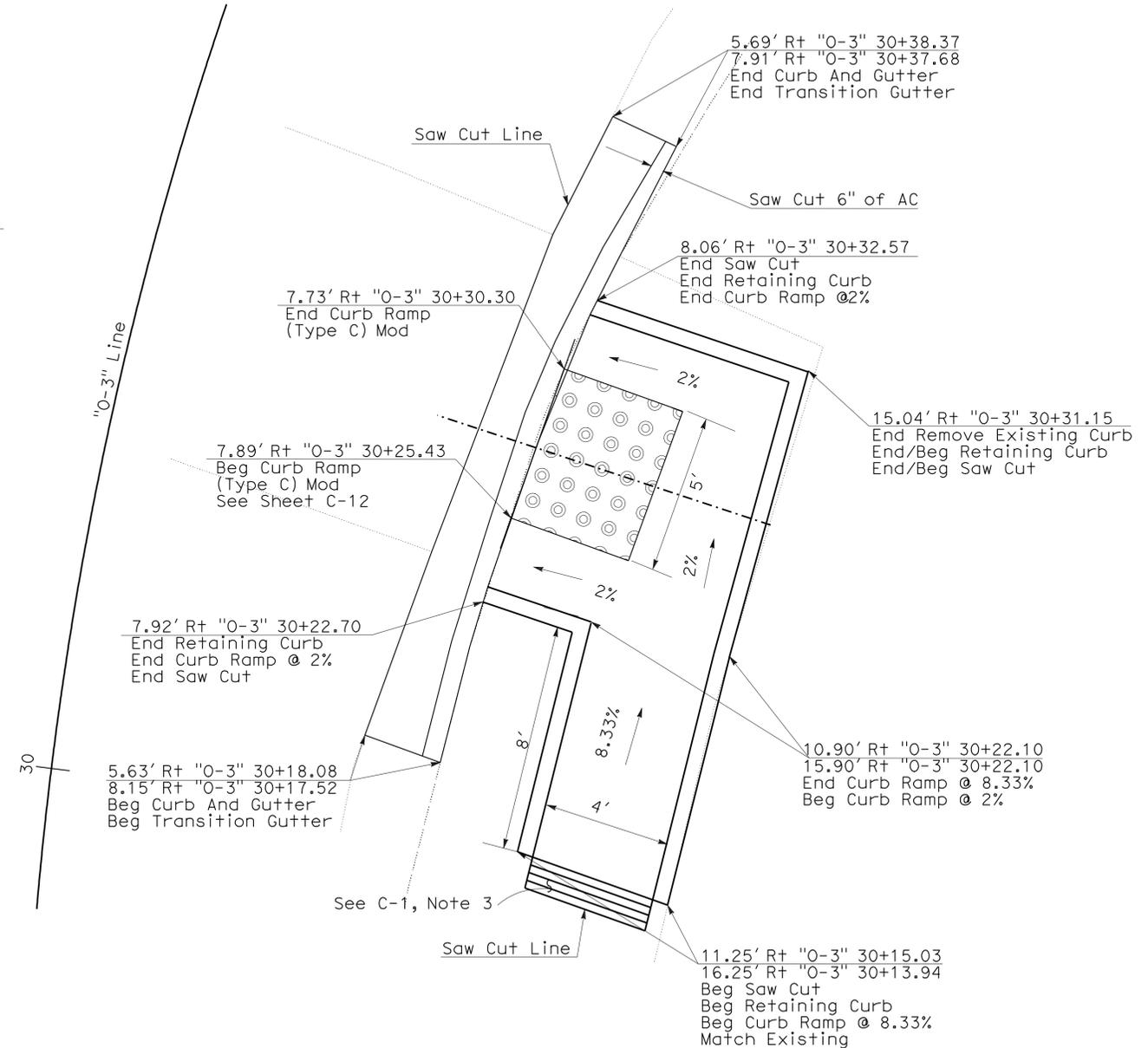
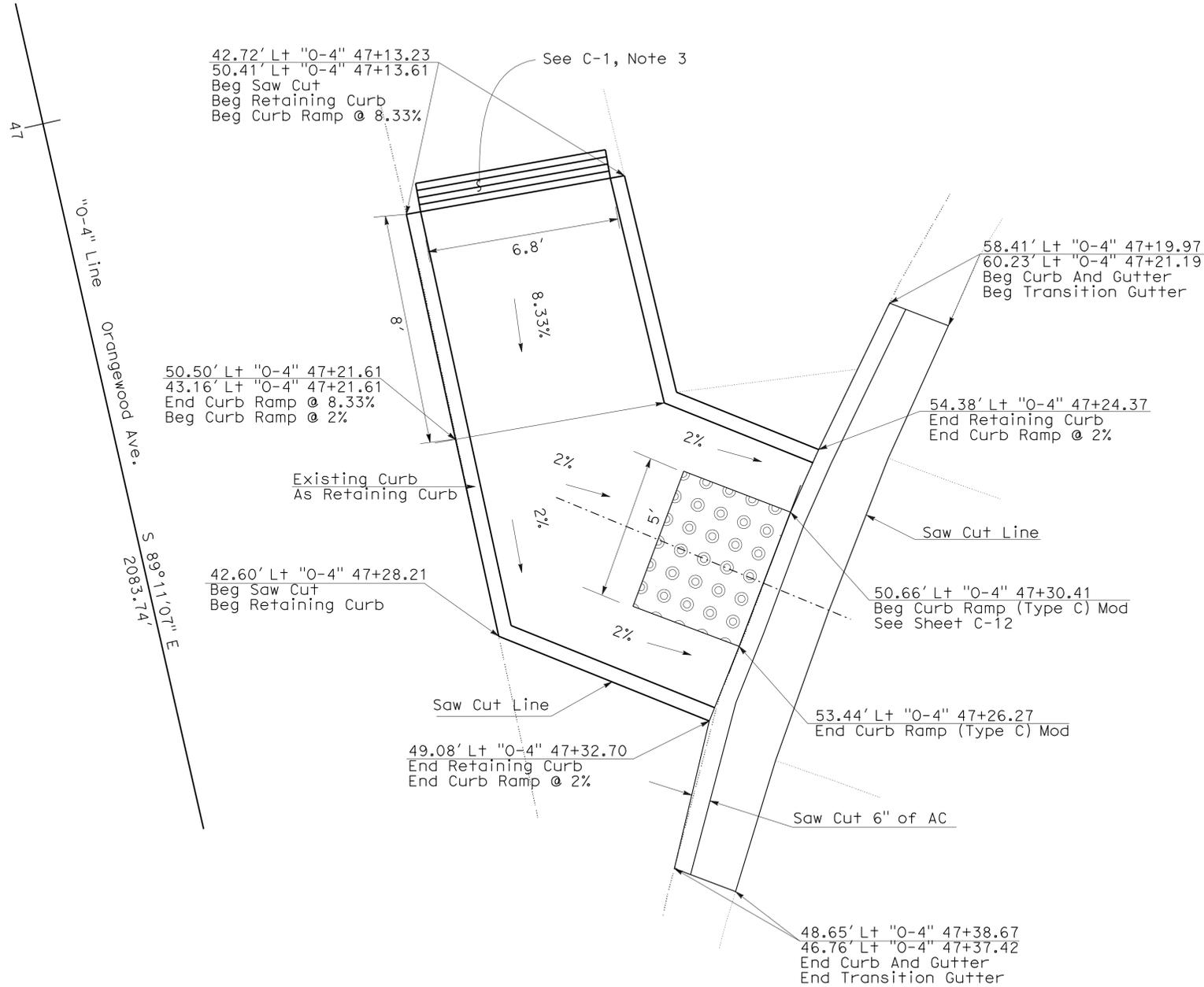
LOCATION 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	5	56

THUAN T. NGUYEN	01-06-2012
REGISTERED CIVIL ENGINEER	DATE
2-13-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
 THUAN NGUYEN
 No. C67565
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

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



NB-57 TANGENT ON RAMP AT ORANGEWOOD AVENUE LEFT CORNER

NB-57 TANGENT ON RAMP AT ORANGEWOOD AVENUE RIGHT CORNER

CONSTRUCTION DETAIL (ORANGEWOOD AVENUE) LOCATION 2

NO SCALE

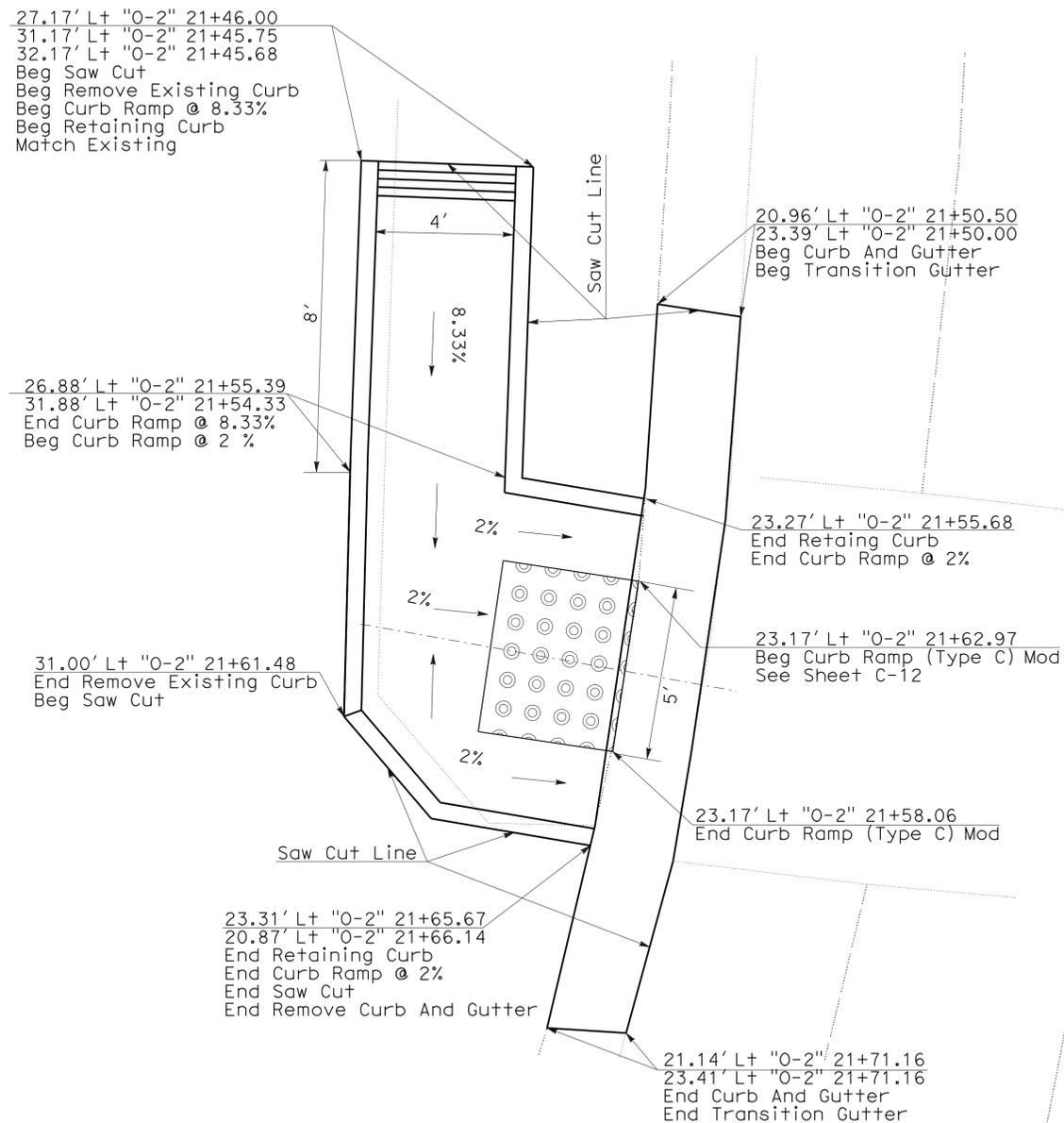
C-2

NOTE: For Gutter Transition See Sheet C-12

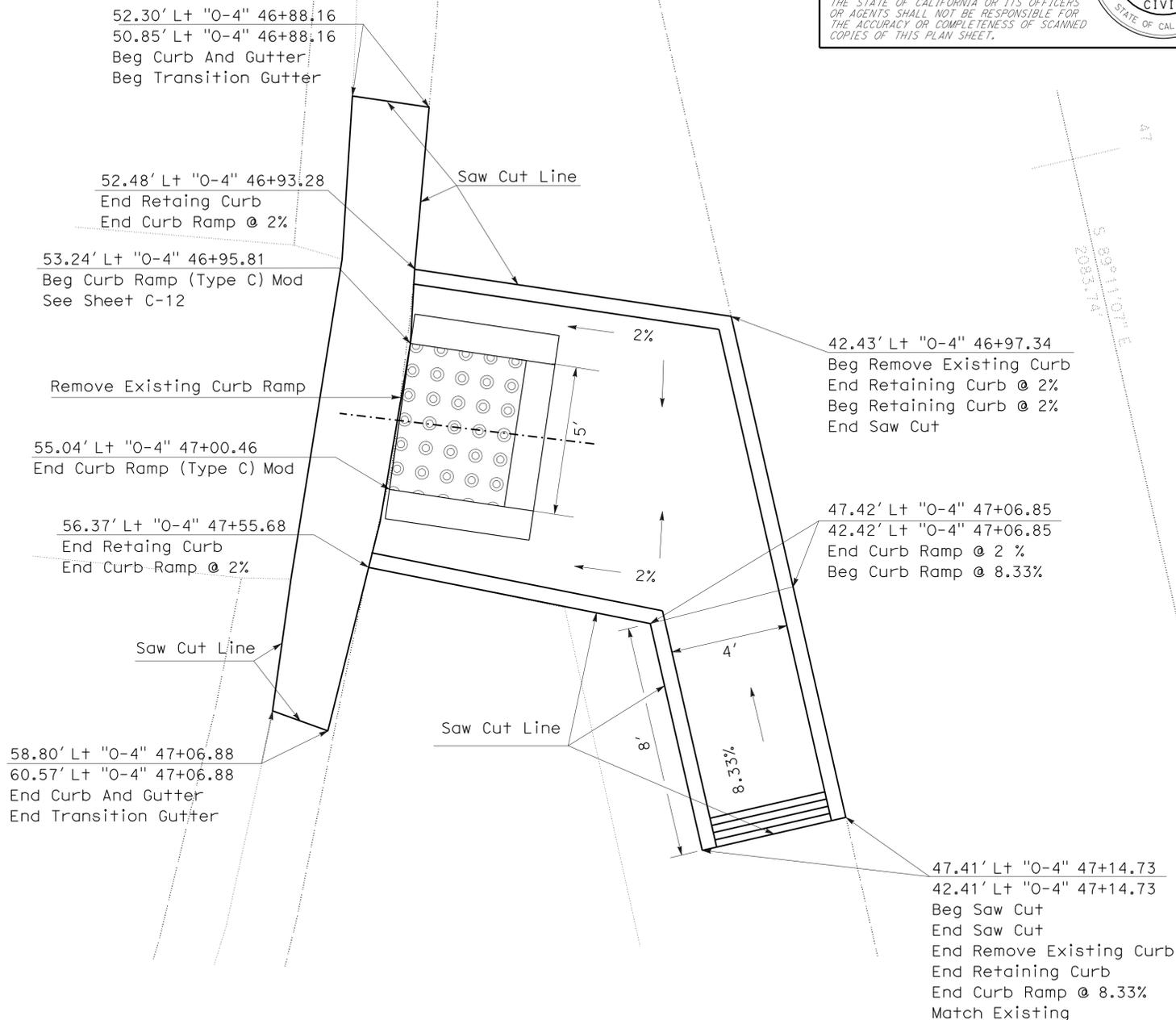
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISOR	DATE

LOCATION 3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	6	56
THUAN T. NGUYEN REGISTERED CIVIL ENGINEER No. C67565 Exp 06/30/13 CIVIL			02-03-12 DATE 2-13-12 PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



**NB-57 LOOP ON RAMP
AT ORANGEWOOD AVENUE LEFT CORNER
GUTTER SLOPE: = 6.7%**



**NB-57 LOOP ON RAMP
AT ORANGEWOOD AVENUE RIGHT CORNER
GUTTER SLOPE: FLAT = 1.7%**

NOTE: For Gutter Transition See Sheet C-12

CONSTRUCTION DETAIL (ORANGEWOOD AVENUE) LOCATION 3

NO SCALE

C-3

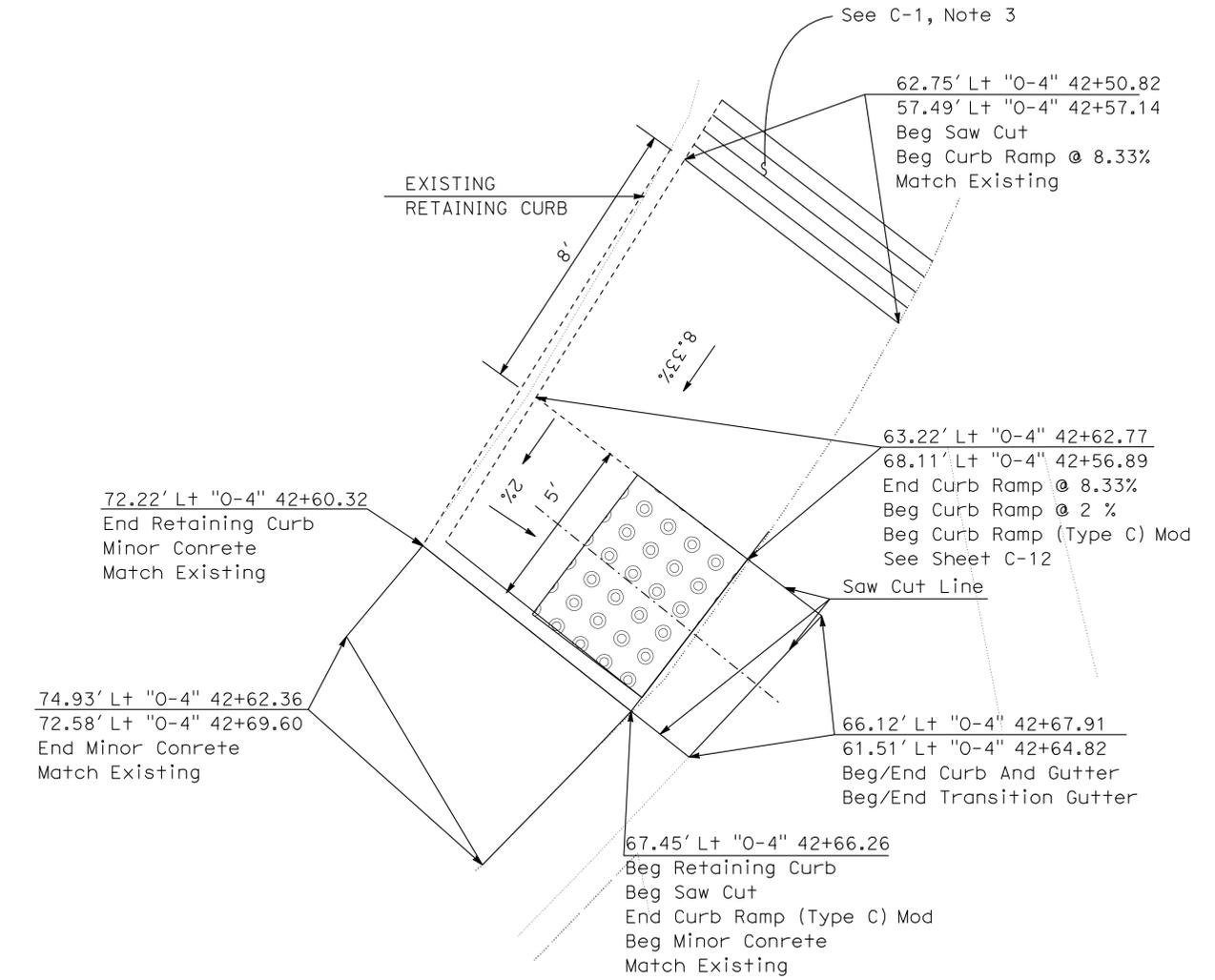
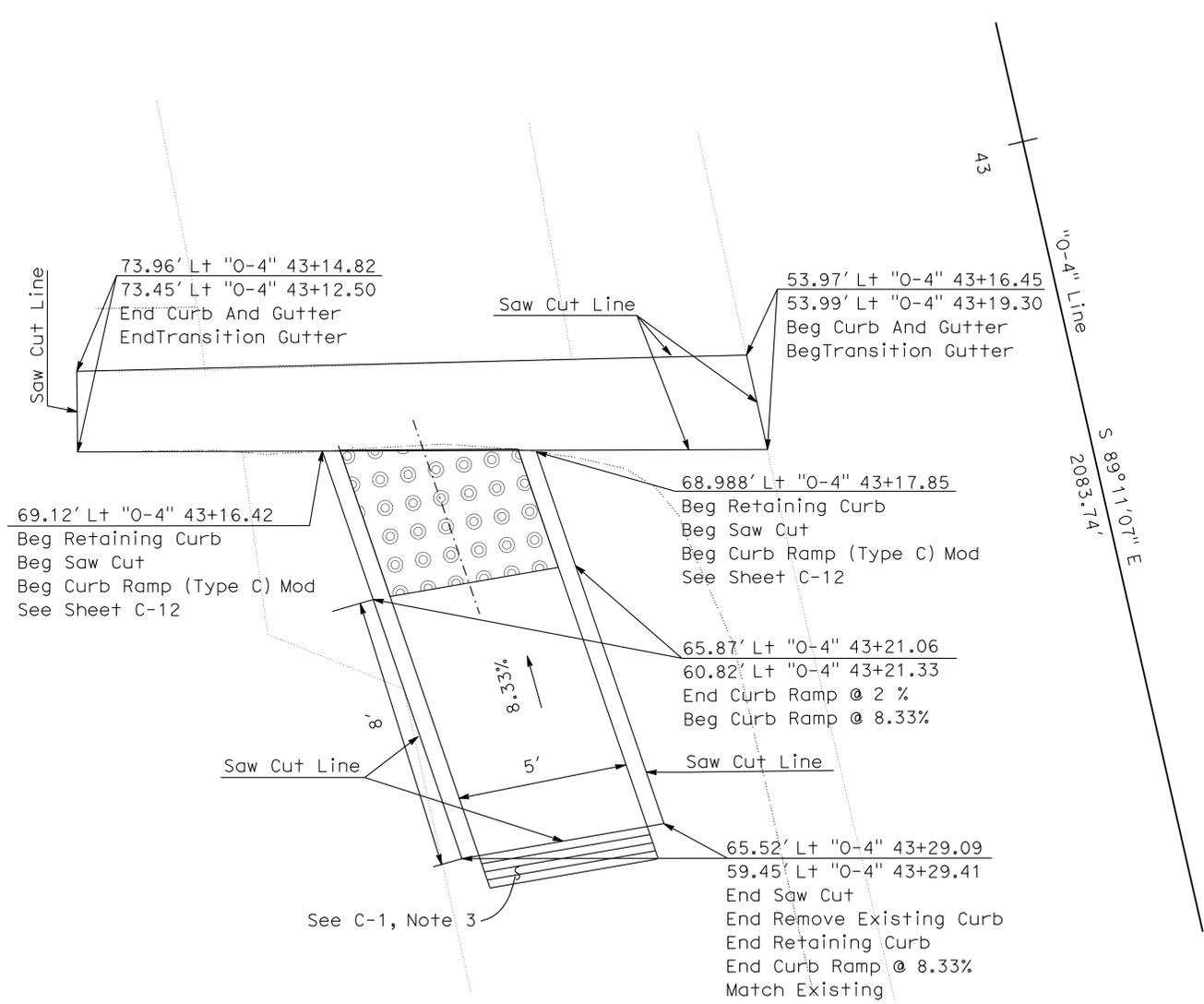
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISOR	DATE

LOCATION 4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	7	56

THUAN T. NGUYEN	01-06-2012
REGISTERED CIVIL ENGINEER	DATE
2-13-12	
PLANS APPROVAL DATE	

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



SB-57 ON RAMP AT ORANGEWOOD AVENUE SE CORNER
GUTTER SLOPE: = 7.3%

SB-57 ON RAMP AT ORANGEWOOD AVENUE SW CORNER
GUTTER SLOPE: FLAT = 2.2%

CONSTRUCTION DETAIL (ORANGEWOOD AVENUE) LOCATION 4

NO SCALE

NOTE: For Gutter Transition See Sheet C-12

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISOR	DATE

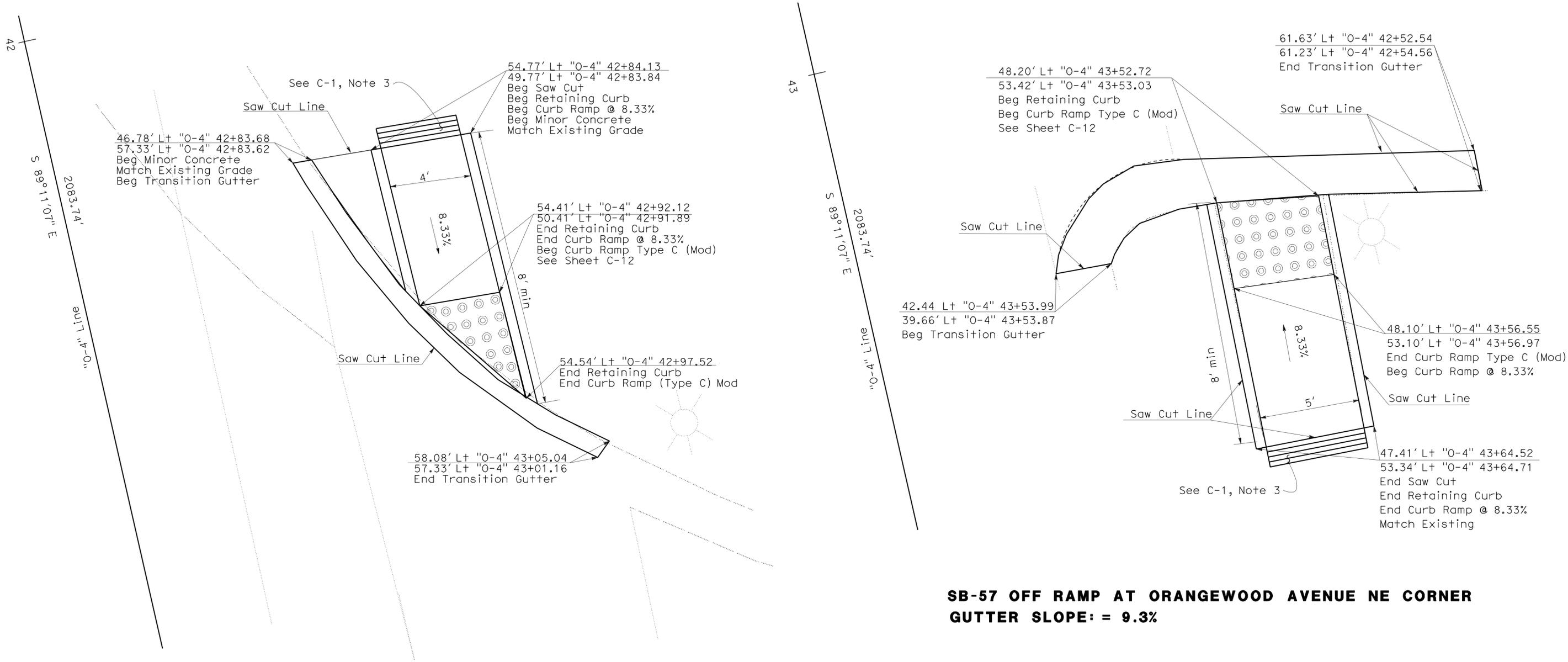
LOCATION 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	8	56

Thuan N. Nguyen REGISTERED CIVIL ENGINEER No. C67565 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA	01-06-2012 DATE 2-13-12 PLANS APPROVAL DATE
---	--

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED-DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISED BY	DATE REVISED



SB-57 OFF RAMP AT ORANGEWOOD AVENUE NE CORNER
GUTTER SLOPE: = 9.3%

CONSTRUCTION DETAIL (ORANGEWOOD AVENUE) LOCATION 5

NO SCALE

C-5

NOTE: For Gutter Transition See Sheet C-12

LAST REVISION DATE PLOTTED => 14-FEB-2012 TIME PLOTTED => 07:04

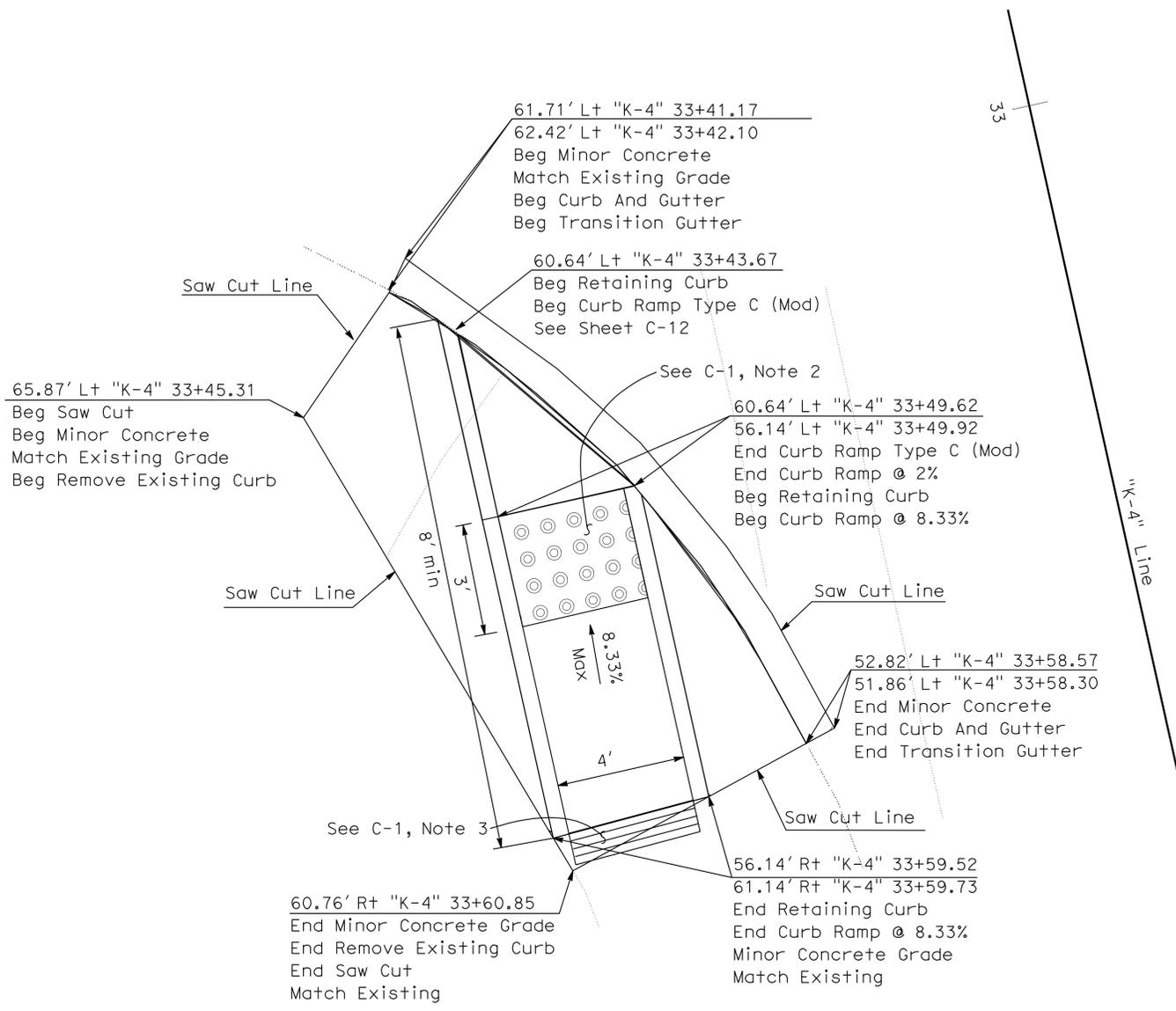
LOCATION 6

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	9	56

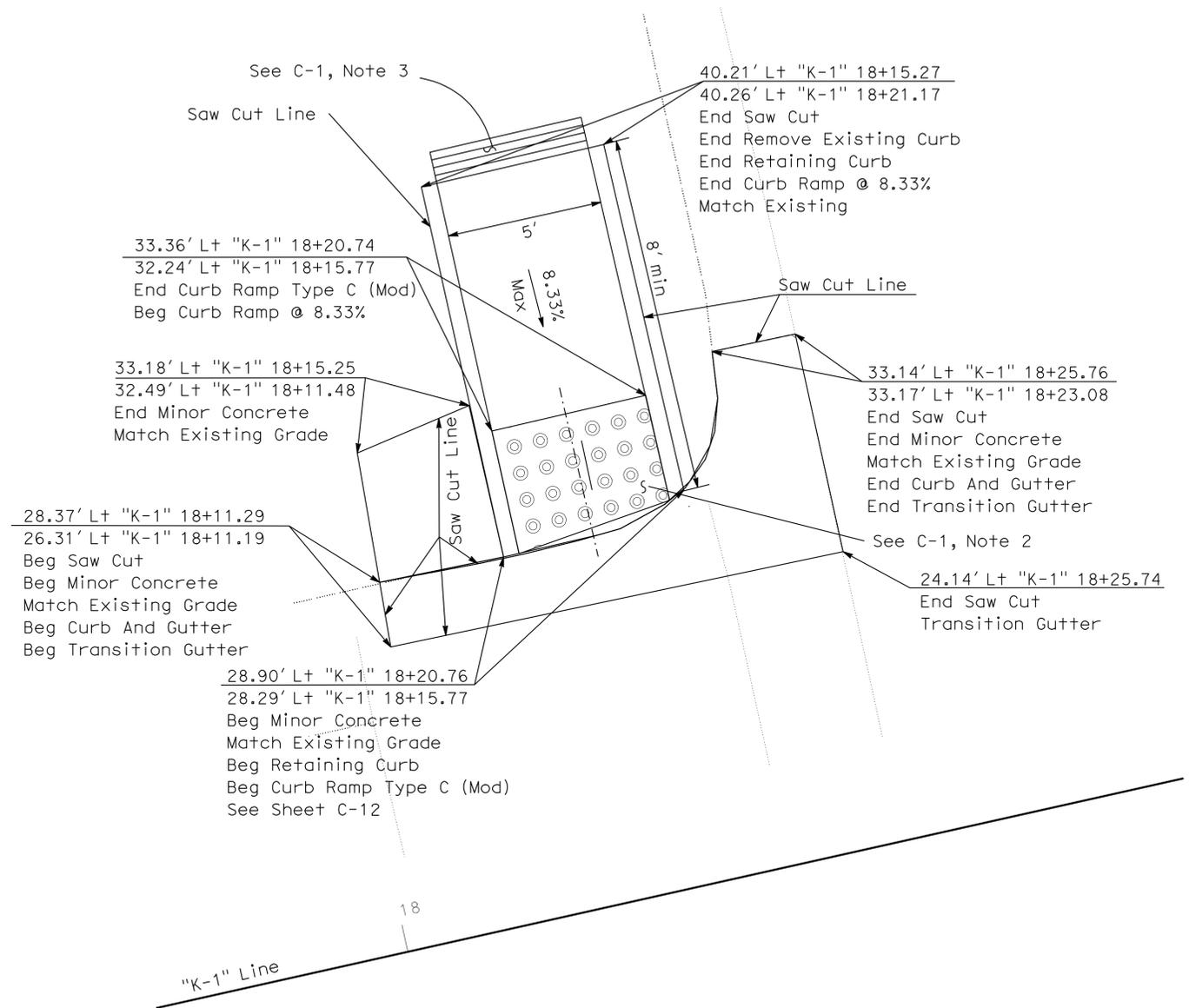
Thuan N. Nguyen REGISTERED CIVIL ENGINEER No. C67565 Exp. 06/30/13 CIVIL	01-06-2012 DATE THUAN NGUYEN No. C67565 Exp. 06/30/13 CIVIL
--	--

2-13-12
PLANS APPROVAL DATE

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



NB-57 OFF RAMP AT KATELLA AVENUE RIGHT CORNER
GUTTER SLOPE: FLAT < 5%



NB-57 OFF RAMP AT KATELLA AVENUE LEFT CORNER
GUTTER SLOPE: FLAT = 3.2%

CONSTRUCTION DETAIL (KATELLA AVENUE) LOCATION 6 NO SCALE

C-6

NOTE: For Gutter Transition See Sheet C-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN DIVISION
 ANDREW OSHRIN
 RAJU VORA
 THUAN T. NGUYEN
 REVISIONS:
 12-28-11
 DATE PLOTTED => 15-FEB-2012
 TIME PLOTTED => 12:41

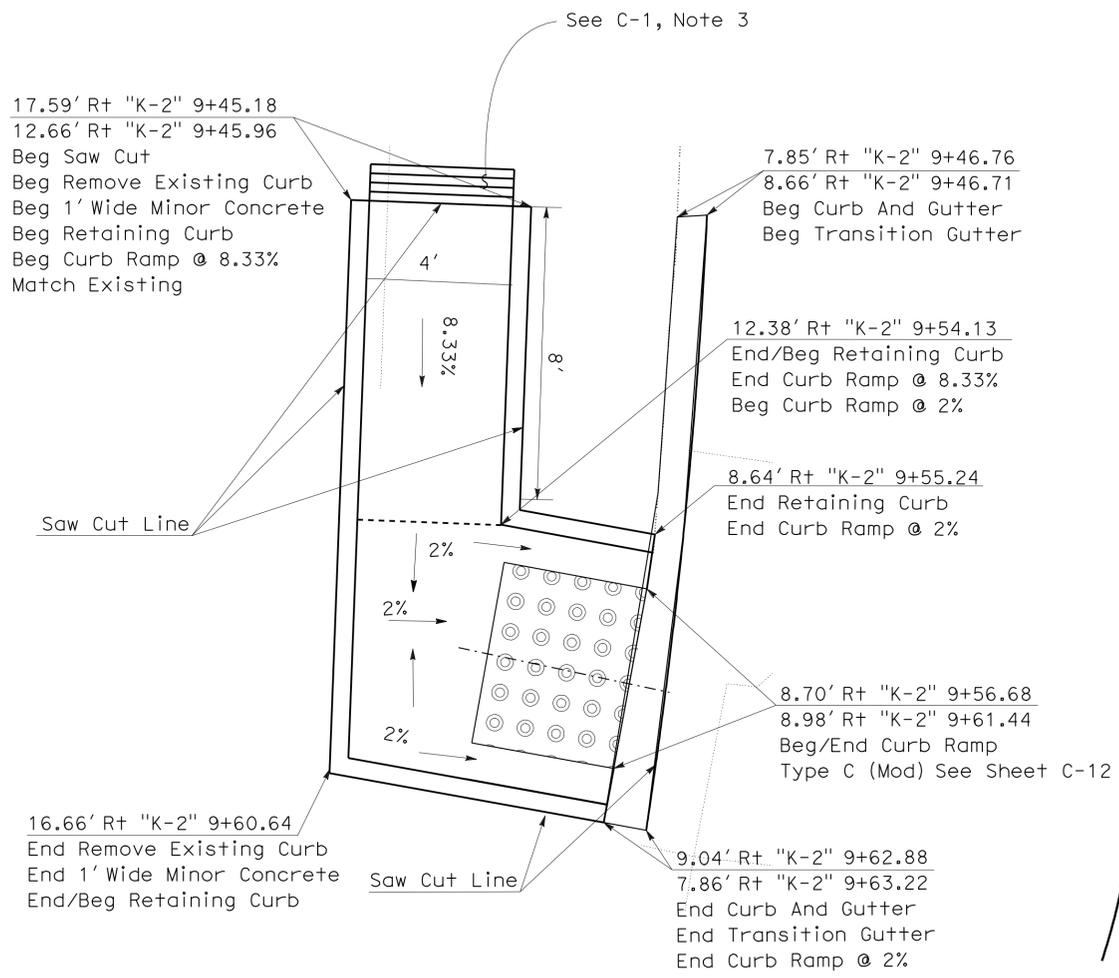
LOCATION 7

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	10	56

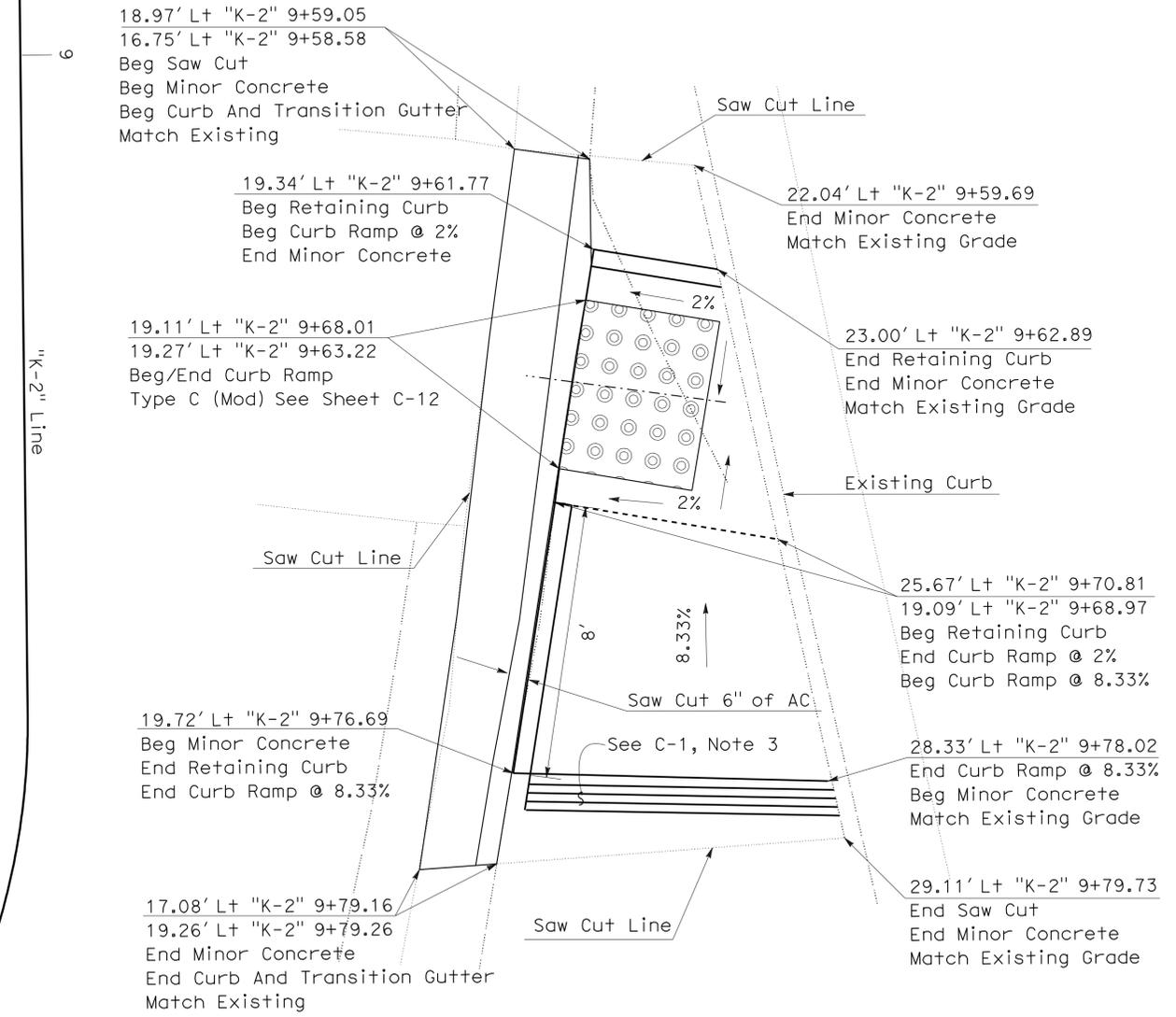
<i>Thuan N. Nguyen</i> 01-06-2012 REGISTERED CIVIL ENGINEER DATE	
2-13-12 PLANS APPROVAL DATE	

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR ANDREW OSHRIN	
CALCULATED-DESIGNED BY THUAN T. NGUYEN	CHECKED BY RAJU VORA
REVISOR BY	DATE REVISOR



GUTTER SLOPE: FLAT < 5%
NB-57 LOOP ON RAMP AT KATELLA AVENUE RIGHT CORNER



NB-57 LOOP ON RAMP AT KATELLA AVENUE LEFT CORNER

CONSTRUCTION DETAIL (KATELLA AVENUE) LOCATION 7

NO SCALE

C-7

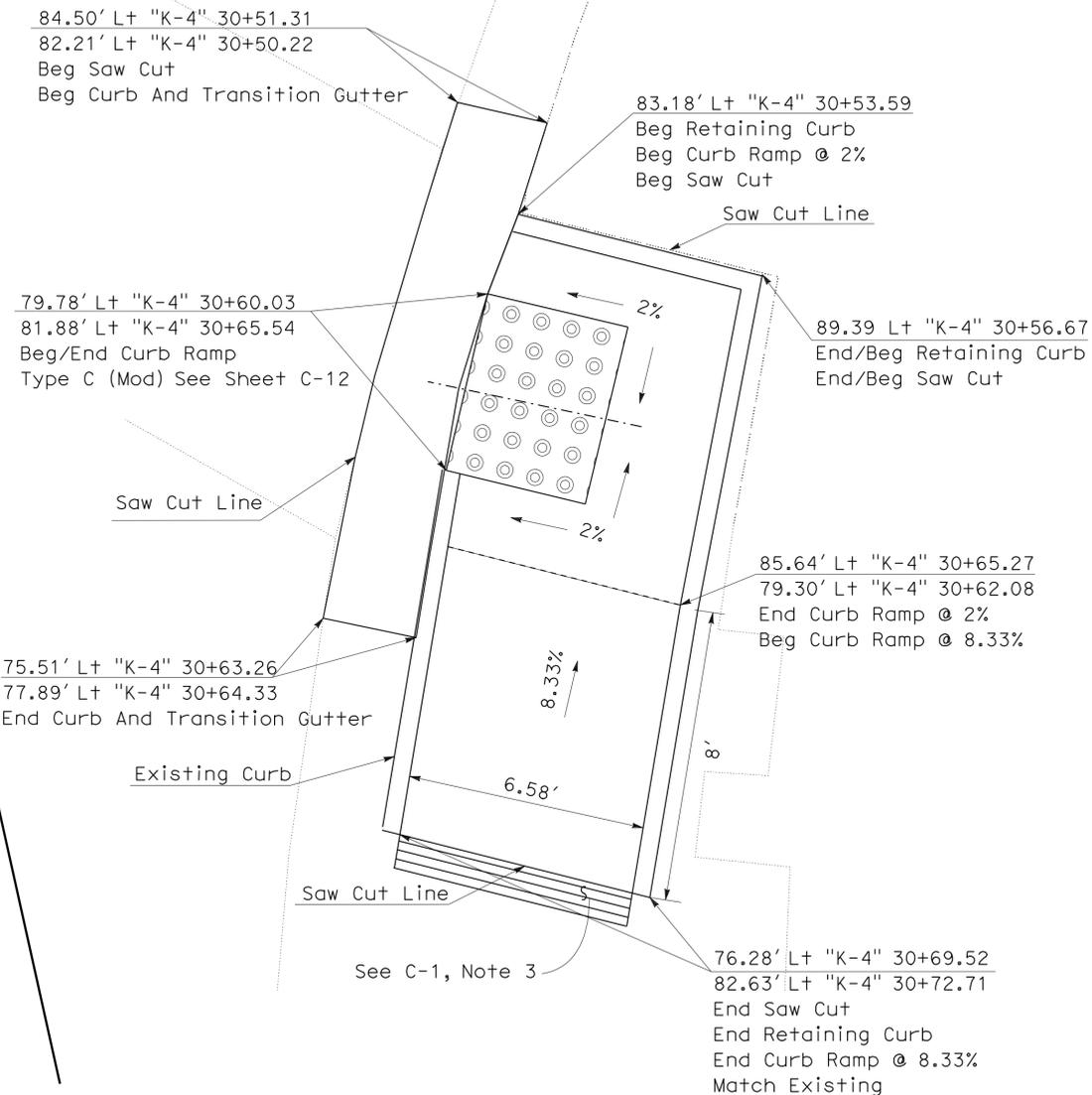
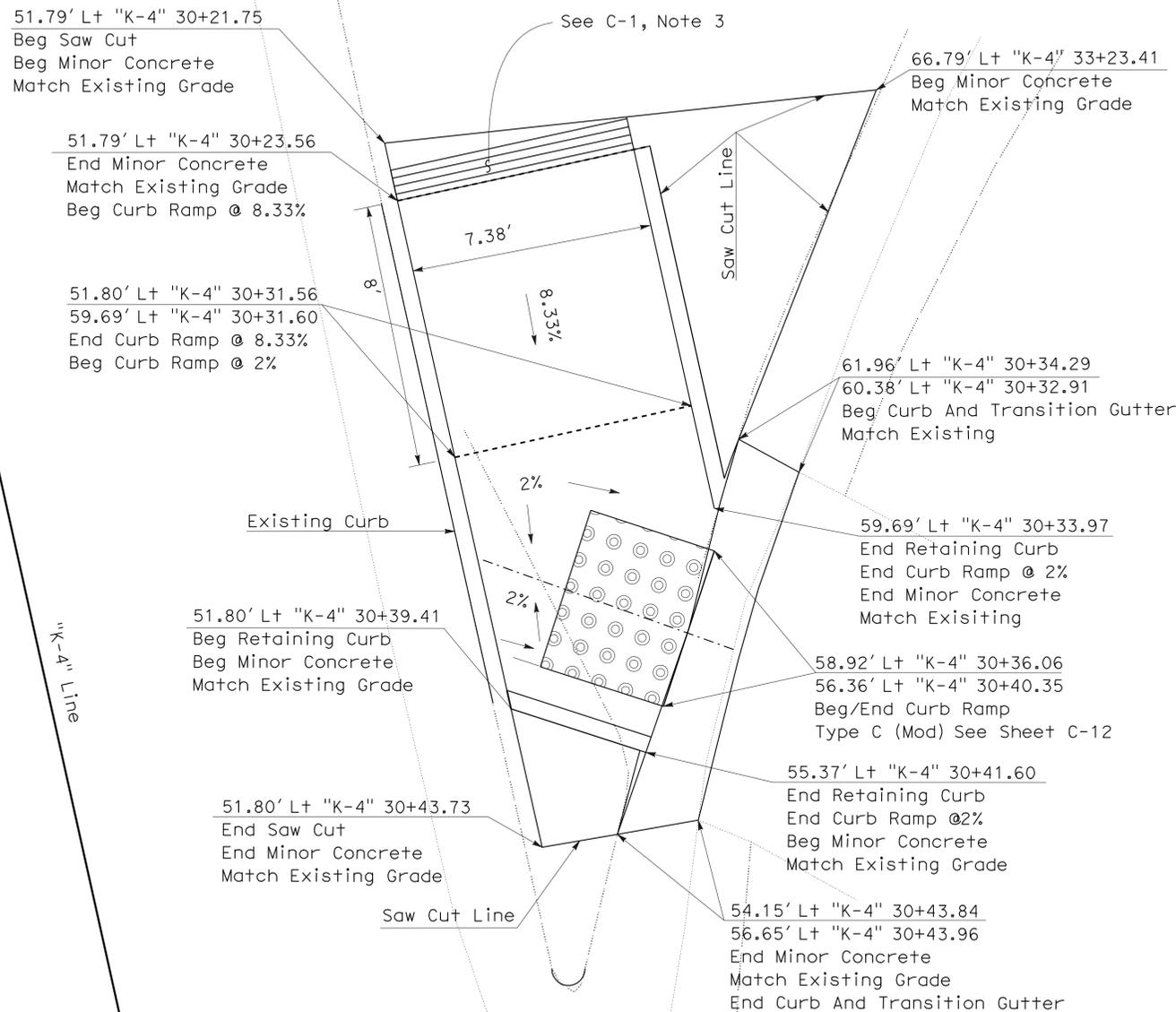
NOTE: For Gutter Transition See Sheet C-12

LOCATION 8

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	11	56

Thuan N. Nguyen REGISTERED CIVIL ENGINEER No. C67565 Exp. 06/30/13 CIVIL	01-06-2012 DATE
2-13-12 PLANS APPROVAL DATE	REGISTERED PROFESSIONAL ENGINEER THUAN NGUYEN No. C67565 Exp. 06/30/13 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.



NB-57 ON RAMP AT KATELLA AVENUE RIGHT CORNER

GUTTER SLOPE: FLAT < 1%
NB-57 ON RAMP AT KATELLA AVENUE LEFT CORNER

CONSTRUCTION DETAIL
(KATELLA AVENUE)
LOCATION 8
NO SCALE

NOTE: For Gutter Transition See Sheet C-12

C-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISOR	DATE
REVISOR	DATE

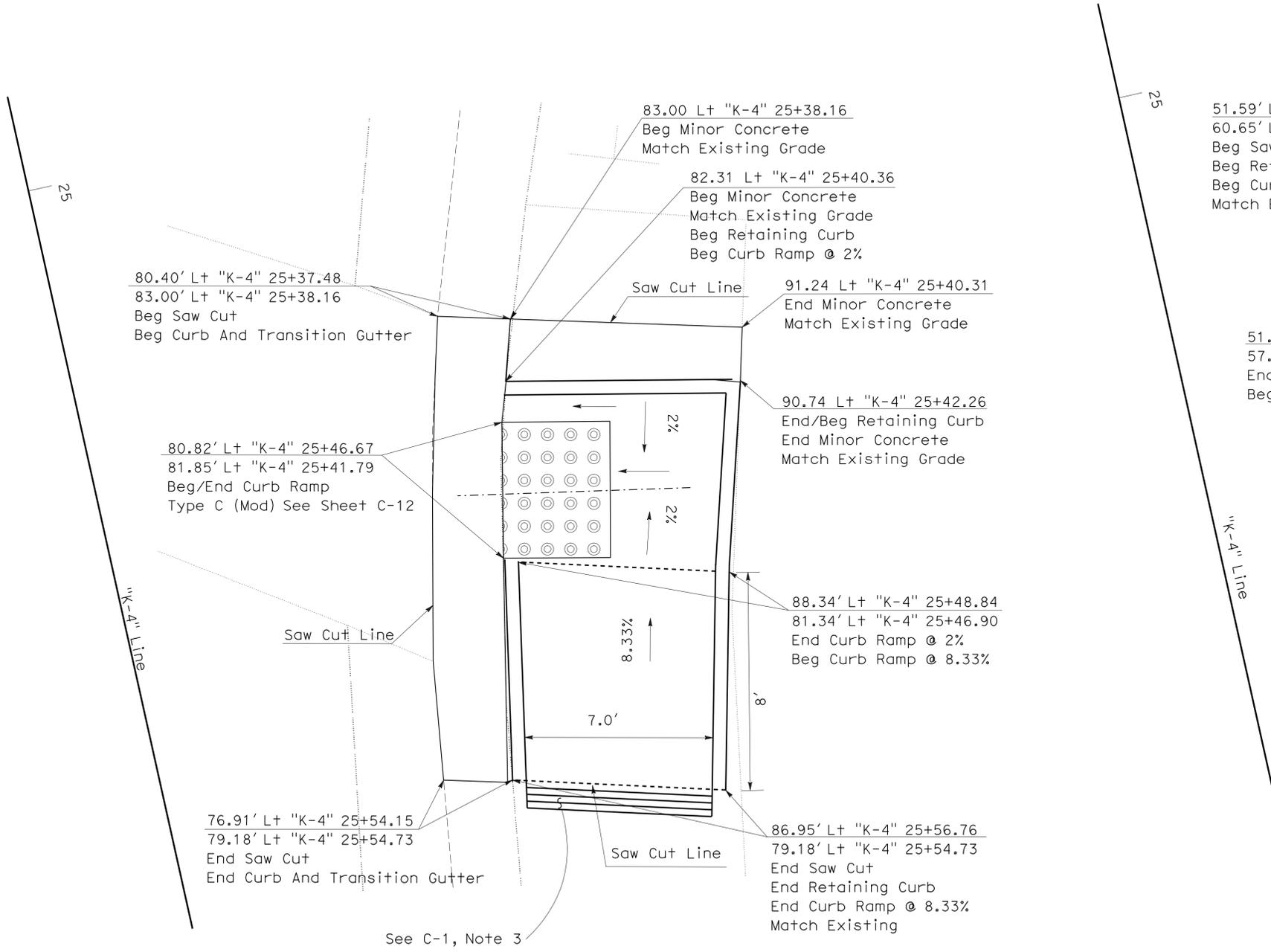
LOCATION 9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	12	56

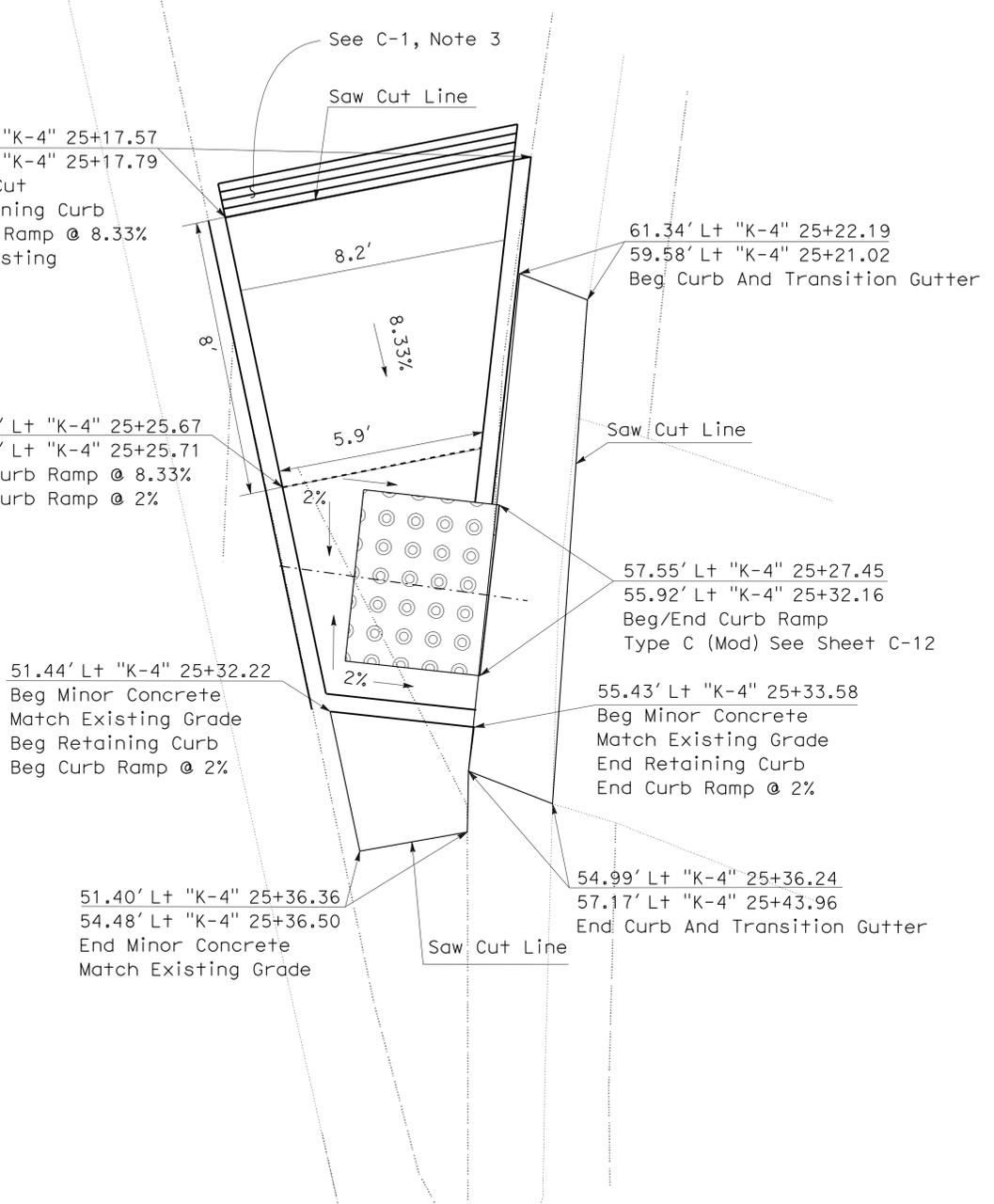
Thuan N. Nguyen REGISTERED CIVIL ENGINEER No. C67565 Exp. 06/30/13 CIVIL	01-06-2012 DATE 2-13-12 PLANS APPROVAL DATE
--	--

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISOR	DATE



SB-57 LOOP ON RAMP AT KATELLA AVENUE RIGHT CORNER



SB-57 LOOP ON RAMP AT KATELLA AVENUE LEFT CORNER

CONSTRUCTION DETAIL (KATELLA AVENUE) LOCATION 9

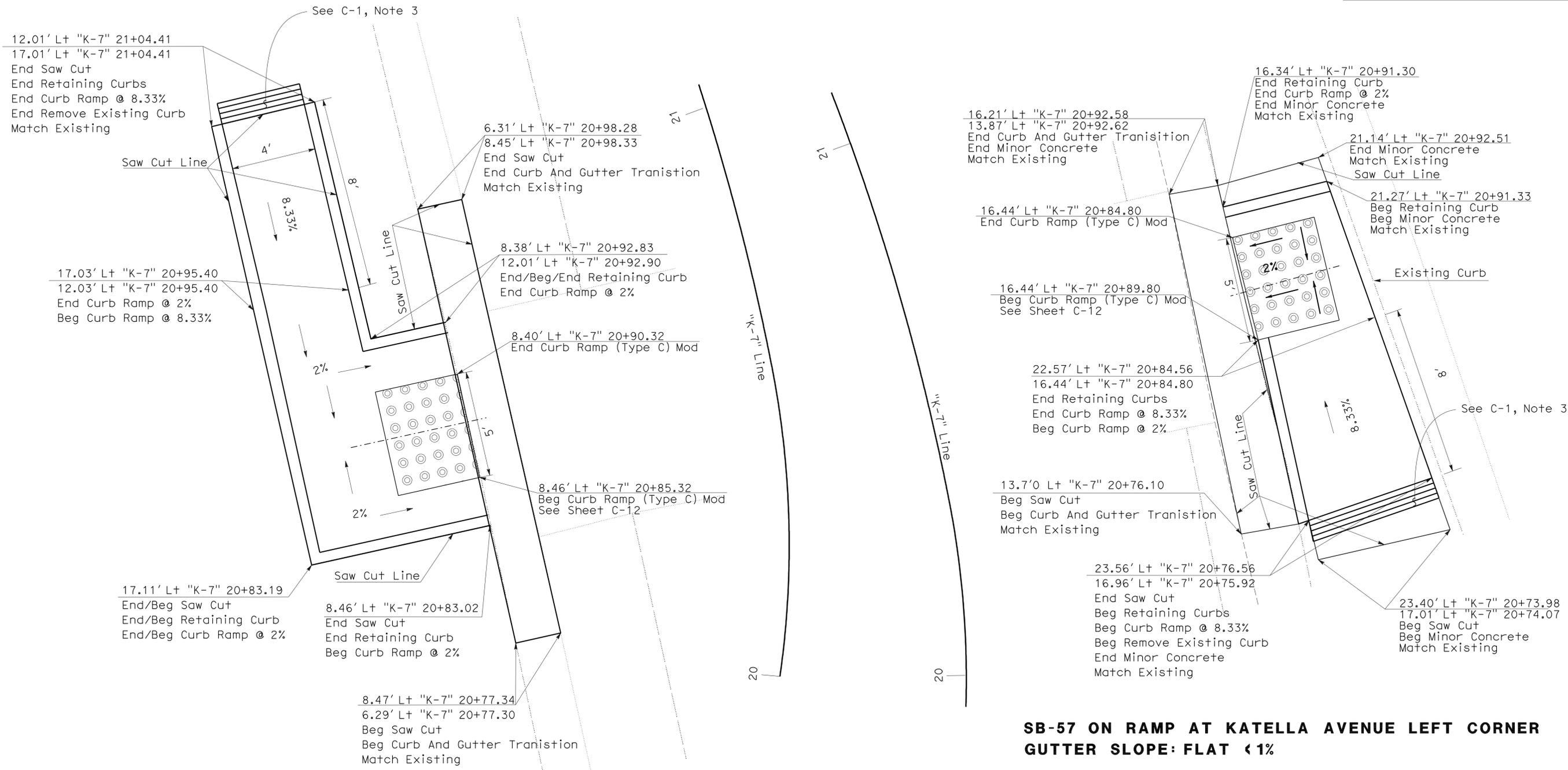
NO SCALE

C-9

NOTE: For Gutter Transition See Sheet C-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	14	56
Thuan N. Nguyen REGISTERED CIVIL ENGINEER			01-06-2012 DATE	REGISTERED PROFESSIONAL ENGINEER THUAN NGUYEN No. C67565 Exp. 06/30/13 CIVIL	
2-13-12 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

LOCATION 11



SB-57 ON RAMP AT KATELLA AVENUE RIGHT CORNER
GUTTER SLOPE: = 4.8%

SB-57 ON RAMP AT KATELLA AVENUE LEFT CORNER
GUTTER SLOPE: FLAT < 1%

CONSTRUCTION DETAIL (KATELLA AVENUE) LOCATION 11

NO SCALE

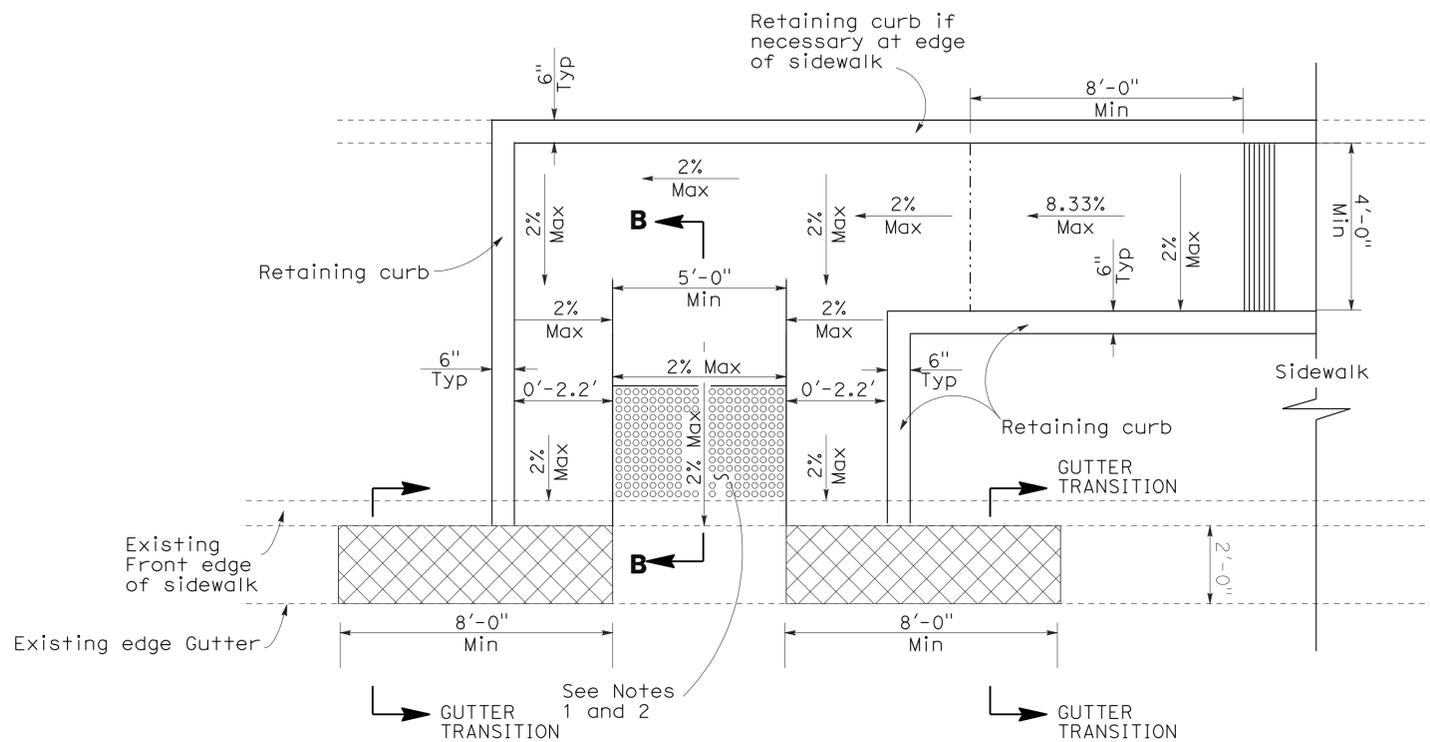
C-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISOR	DATE

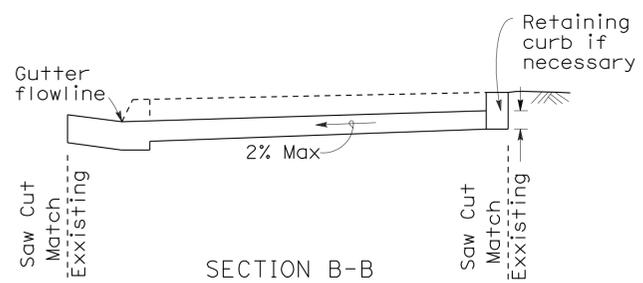
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	15	56
Thuan N. Nguyen REGISTERED CIVIL ENGINEER No. C67565 Exp. 06/30/13 CIVIL			01-06-2012 DATE 2-13-12 PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

LEGEND:

- CURB RAMP GRADE CHANGE
- GUTTER TRANSITION



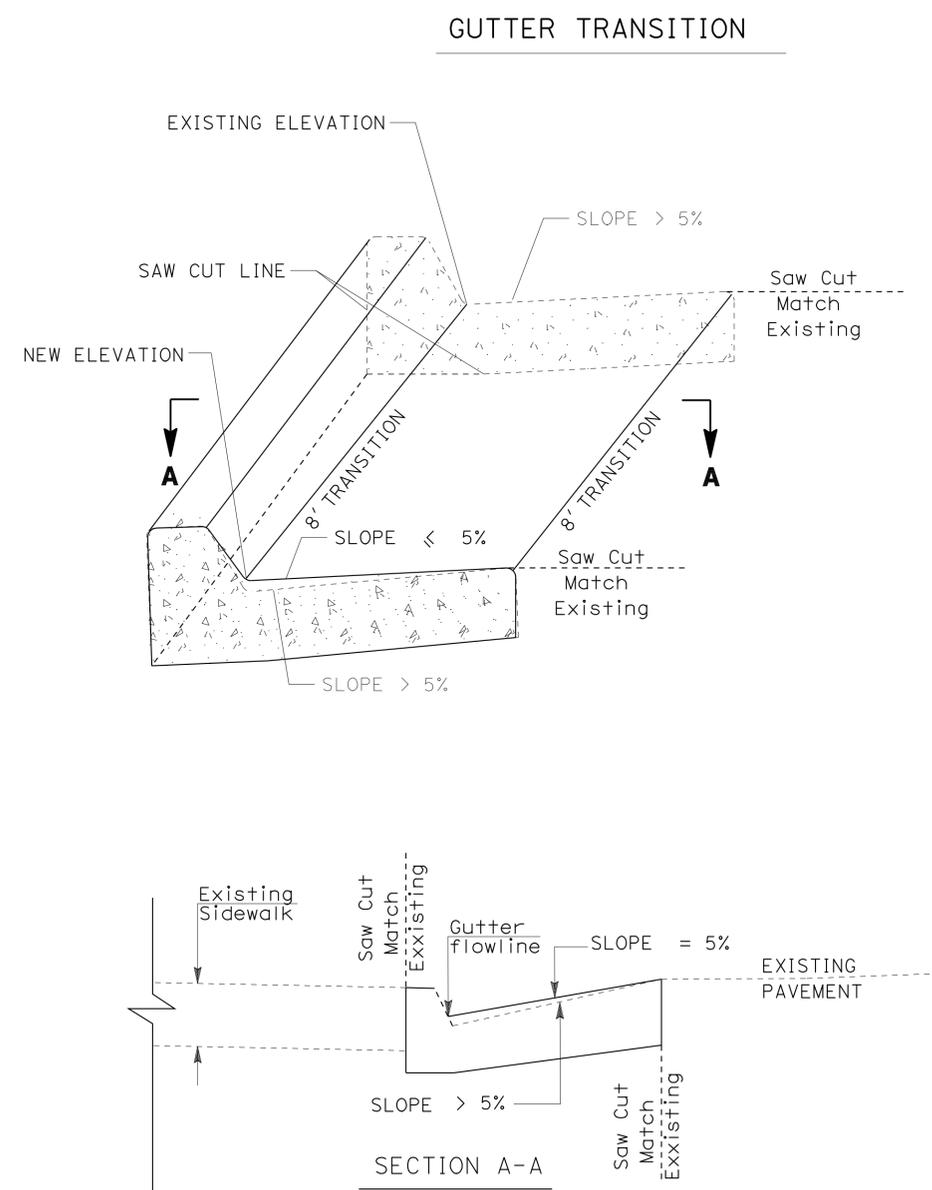
DETAIL A
CASE C (Mod)



NOTE:

1. For detail not shown, see Revised Standard Plan RSP A88A.

(TYPICAL GUTTER TRANSITION DETAIL)



SECTION A-A

CONSTRUCTION DETAIL

NO SCALE

C-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
 FUNCTIONAL SUPERVISOR ANDREW OSHRIN
 THUAN T. NGUYEN RAJU VORA
 REVISIONS BY DATE
 CALCULATED/DESIGNED BY CHECKED BY
 BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 15-FEB-2012
 12-29-11 TIME PLOTTED => 12:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	16	56

Thuan N. Nguyen 01-06-2012
 REGISTERED CIVIL ENGINEER DATE
 2-13-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 THUAN NGUYEN
 No. C67565
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

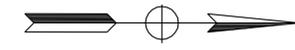
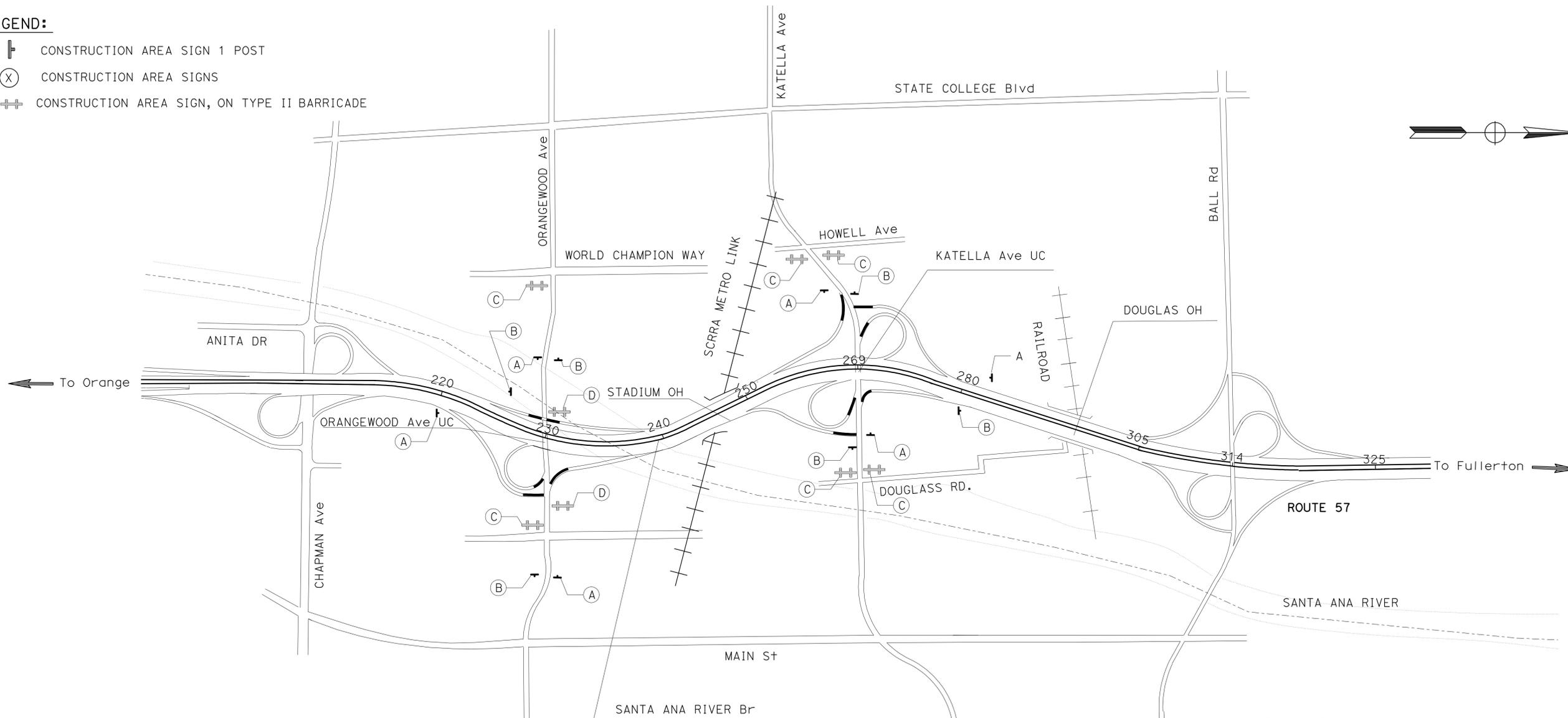
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE

- FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE QUANTITIES SHEETS
- THE CONTRACTOR SHALL PROVIDE AMERICANS WITH DISABILITIES ACT (ADA) SIDEWALK PATH ON ONE SIDE AS SHOWN ON THE PLAN (CS-1) BY PLACING T-20 SIGN WHILE WORKING ON OTHER SIDE OF EAST BOUND ORANGEWOOD AVENUE AND WEST BOUND AND EAST BOUND KATELLA AVENUE.

LEGEND:

- CONSTRUCTION AREA SIGN 1 POST
- CONSTRUCTION AREA SIGNS
- CONSTRUCTION AREA SIGN, ON TYPE II BARRICADE



CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

SIGN NO.	SIGN CODE	PANEL SIZE (IN)	SIGN MESSAGE	No. OF POSTS AND SIZES (IN)	NO. OF SIGNS	REMARKS
(A)	W20-1	48 x 48	ROAD WORK AHEAD	1- 4 x 4 (S)	6	
(B)	G20-2	36 x 18	END ROAD WORK	1- 4 x 4 (S)	6	
(C)	T-19	36 x 24	SIDEWALK CLOSED USE OTHERSIDE		6	ON TYPE II BARRICADE
(D)	T-20	36 x 24	SIDEWALK CLOSED		2	ON TYPE II BARRICADE

(S) DENOTES STATIONARY MOUNTED SIGNS.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

Approved For Construction Area Sign Work Only



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION
 FUNCTIONAL SUPERVISOR: ANDREW OSHRIN
 CALCULATED/DESIGNED BY: THUAN T. NGUYEN
 CHECKED BY: RAJU VORA
 REVISED BY: THUAN T. NGUYEN
 DATE REVISED:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	17	56
Thuan N. Nguyen REGISTERED CIVIL ENGINEER		01-06-2012 DATE			
2-13-12 PLANS APPROVAL DATE		THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.			

NOTE:

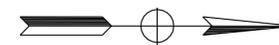
1. SIGN LOCATIONS AND DISPLAY MESSAGES SHOWN ARE APPROXIMATE. EXACT (FINAL) LOCATIONS AND/OR FINAL SIGN MESSAGE/DISPLAY TO BE DETERMINED BY THE ENGINEER.

LEGEND:

- PORTABLE CHANGEABLE MESSAGE SIGN
- DIRECTION OF TRAFFIC
- CONSTRUCTION AREA SIGNS
- TYPE III BARRICADE

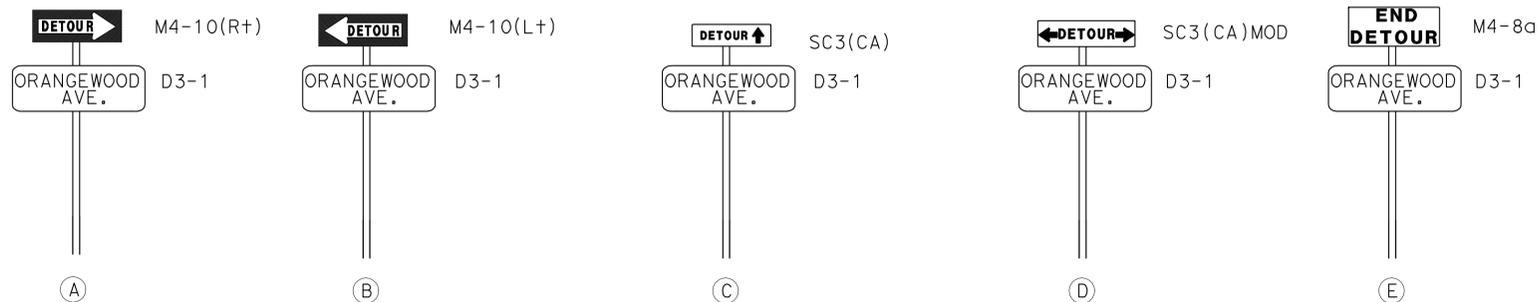
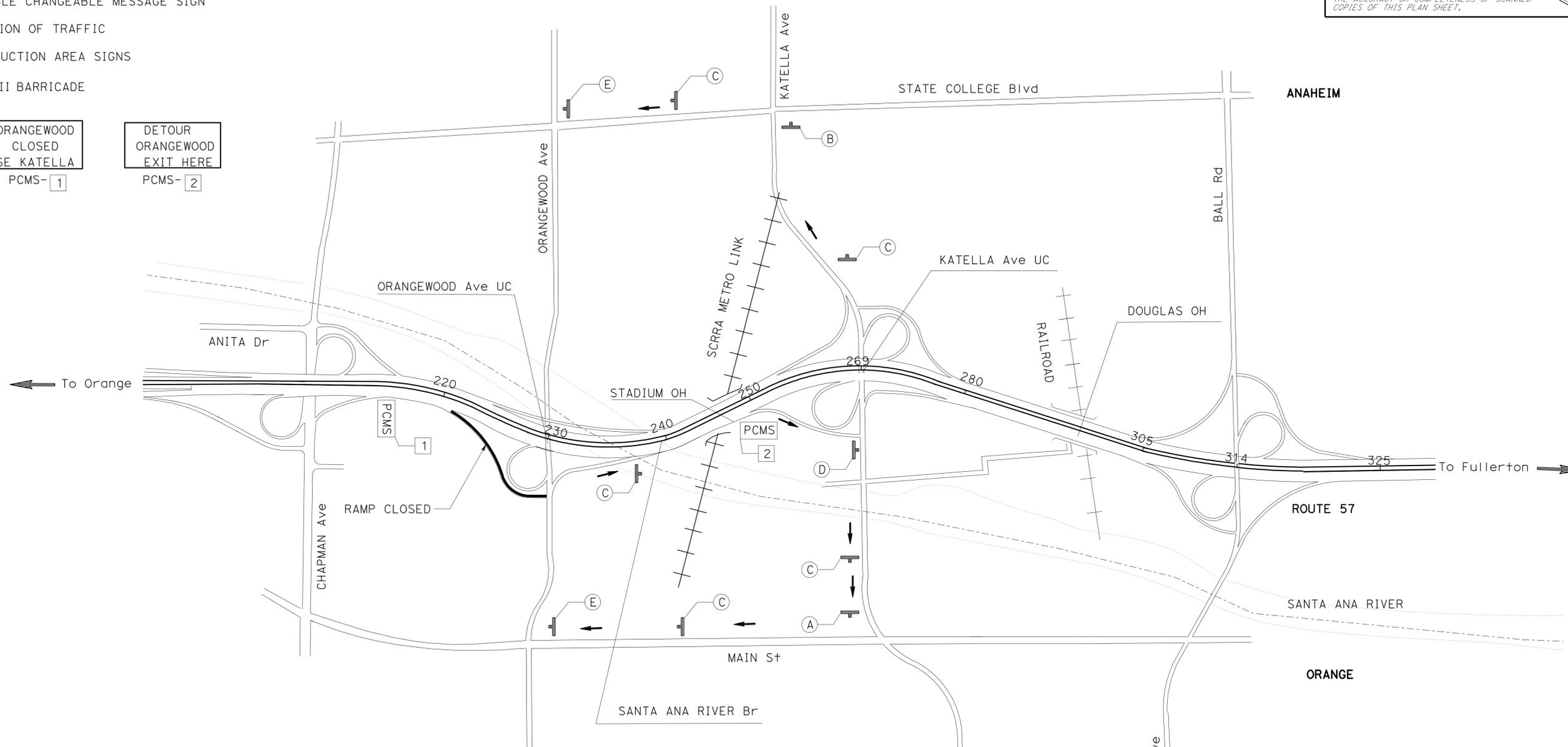
CLOSURE:
NB Rte 57 TO ORANGEWOOD AVENUE OFF-RAMP

DETOUR:
NB Rte 57 TO KATELLA AVENUE OFF-RAMP TO EB/WB KATELLA AVENUE TO SB MAIN STREET/ SB STATE COLLEGE BLVD



ORANGEWOOD CLOSED USE KATELLA
PCMS- 1

DETOUR ORANGEWOOD EXIT HERE
PCMS- 2



**DETOUR PLAN
(ORANGEWOOD AVENUE)**

NO SCALE

DE - 1

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISED BY	DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	18	56

Thuan N. Nguyen	01-06-2012
REGISTERED CIVIL ENGINEER	DATE
2-13-12	
PLANS APPROVAL DATE	

THUAN NGUYEN
No. C67565
Exp. 06/30/13
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:

CLOSURE:
EB ORANGEWOOD AVENUE TO NB Rte 57

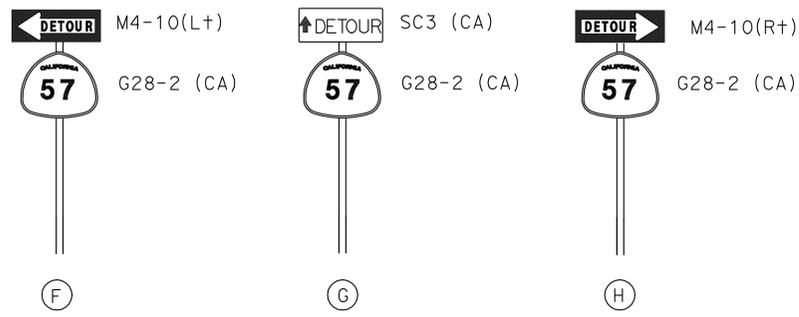
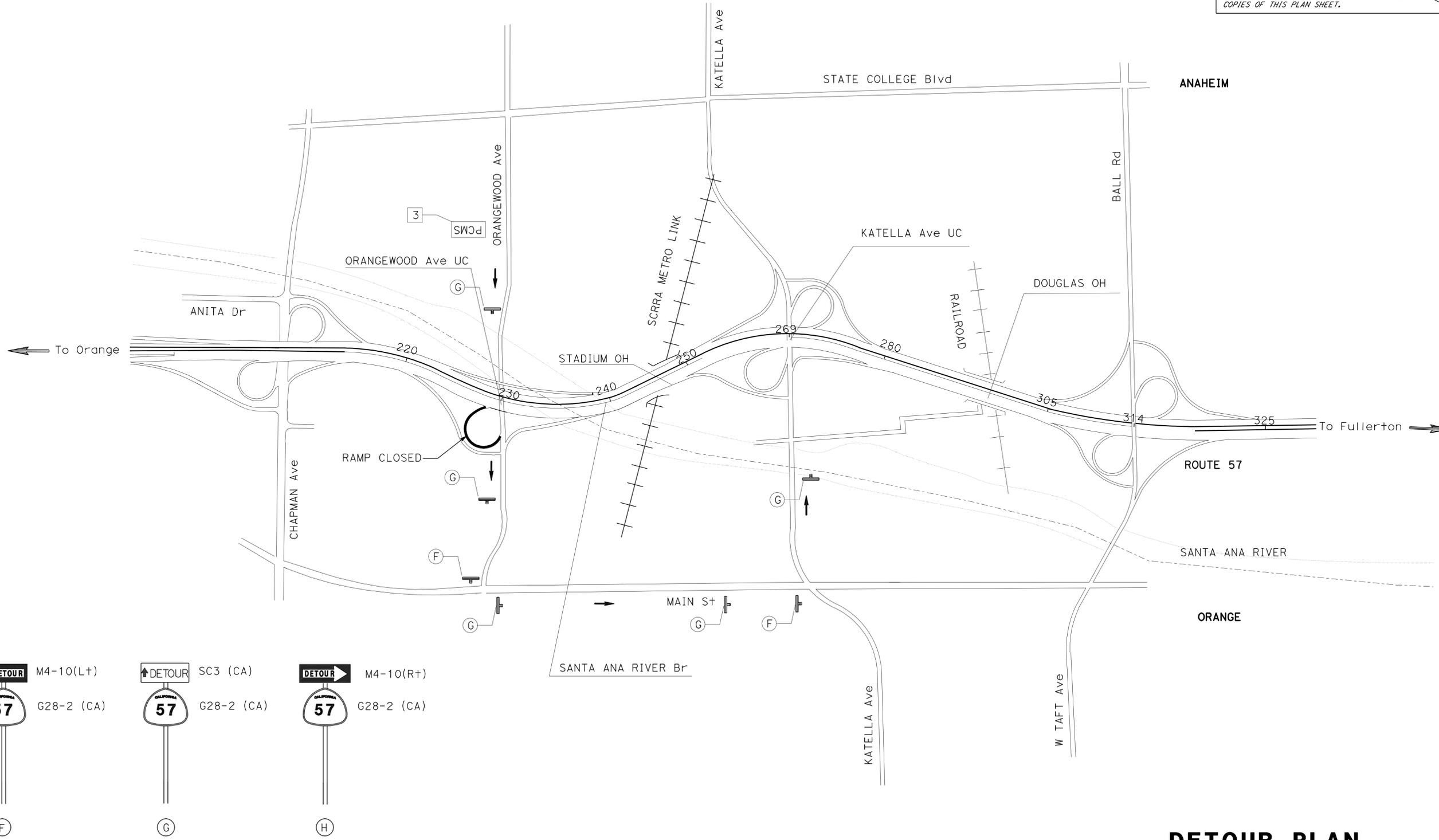
DETOUR:
EB ORANGEWOOD AVENUE TO NB MAIN STREET TO WB KATELLA AVENUE

NB 57 ON RAMP
CLOSED AHEAD

USE DETOUR
ROUTES

1ST. FRAME
PCMS- 3

2ND. FRAME



**DETOUR PLAN
(ORANGEWOOD AVENUE)**

NO SCALE

DE - 2

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED-DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISED BY	DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION

FUNCTIONAL SUPERVISOR
 ANDREW OSHRIN

CALCULATED/DESIGNED BY
 CHECKED BY

THUAN T. NGUYEN
 RAJU VORA

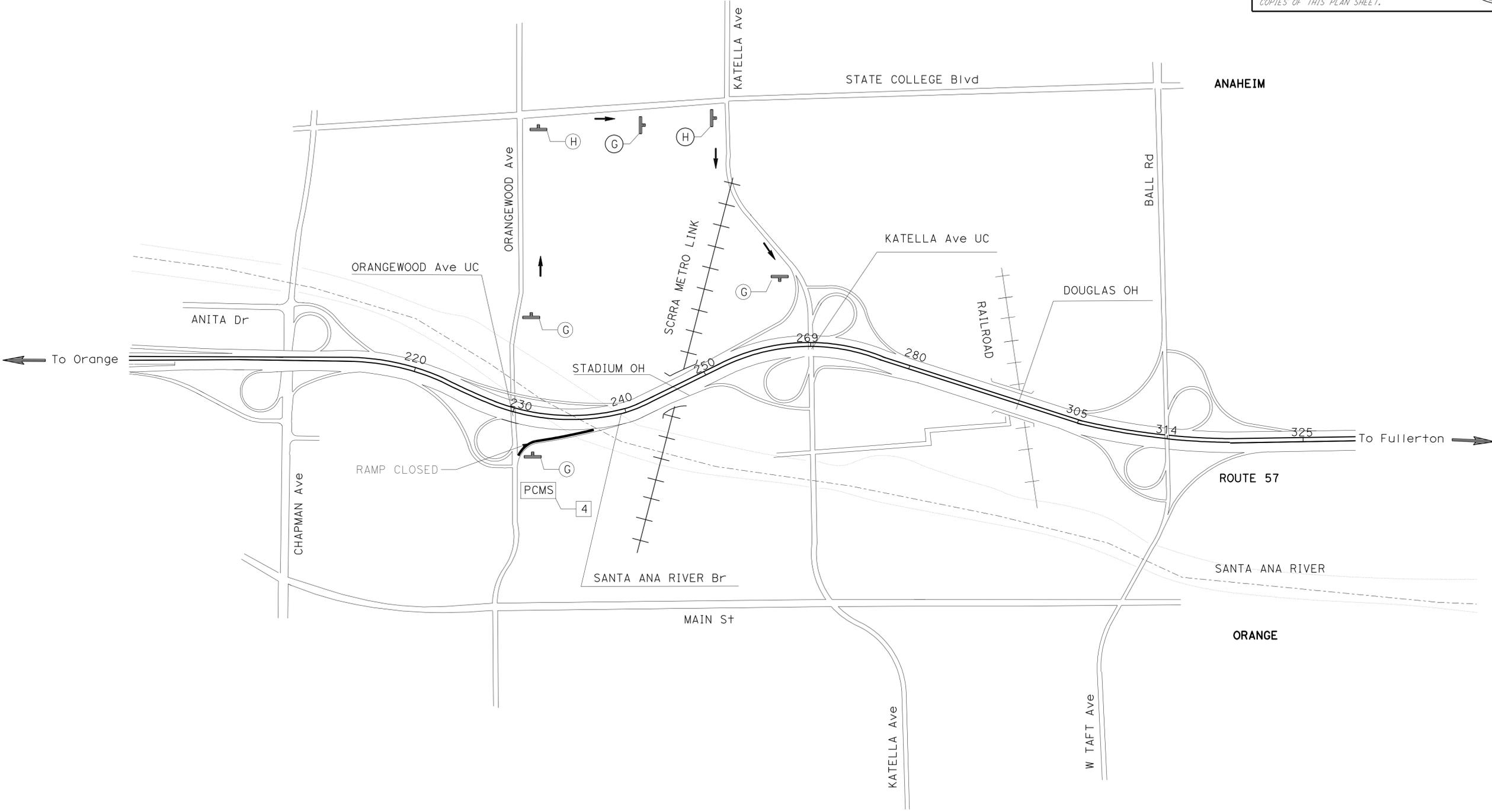
REVISED BY
 DATE REVISED

NOTE:

NB 57 ON RAMP
 CLOSED AHEAD
 PCMS- 4
 1ST. FRAME

USE DETOUR
 ROUTES
 2ND. FRAME

CLOSURE:
 WB ORANGEWOOD AVENUE TO NB Rte 57
 DETOUR:
 WB ORANGEWOOD AVENUE TO NB STATE COLLEGE BLVD TO EB KATELLA AVENUE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	19	56

Thuan T. Nguyen 01-06-2012
 REGISTERED CIVIL ENGINEER DATE
 2-13-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 THUAN NGUYEN
 No. C67565
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

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

**DETOUR PLAN
 (ORANGEWOOD AVENUE)**

NO SCALE

DE-3

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Oran	57	11.8/13.4	20	56

REGISTERED CIVIL ENGINEER	DATE
THUAN NGUYEN	01-06-2012
PLANS APPROVAL DATE	
	2-13-12

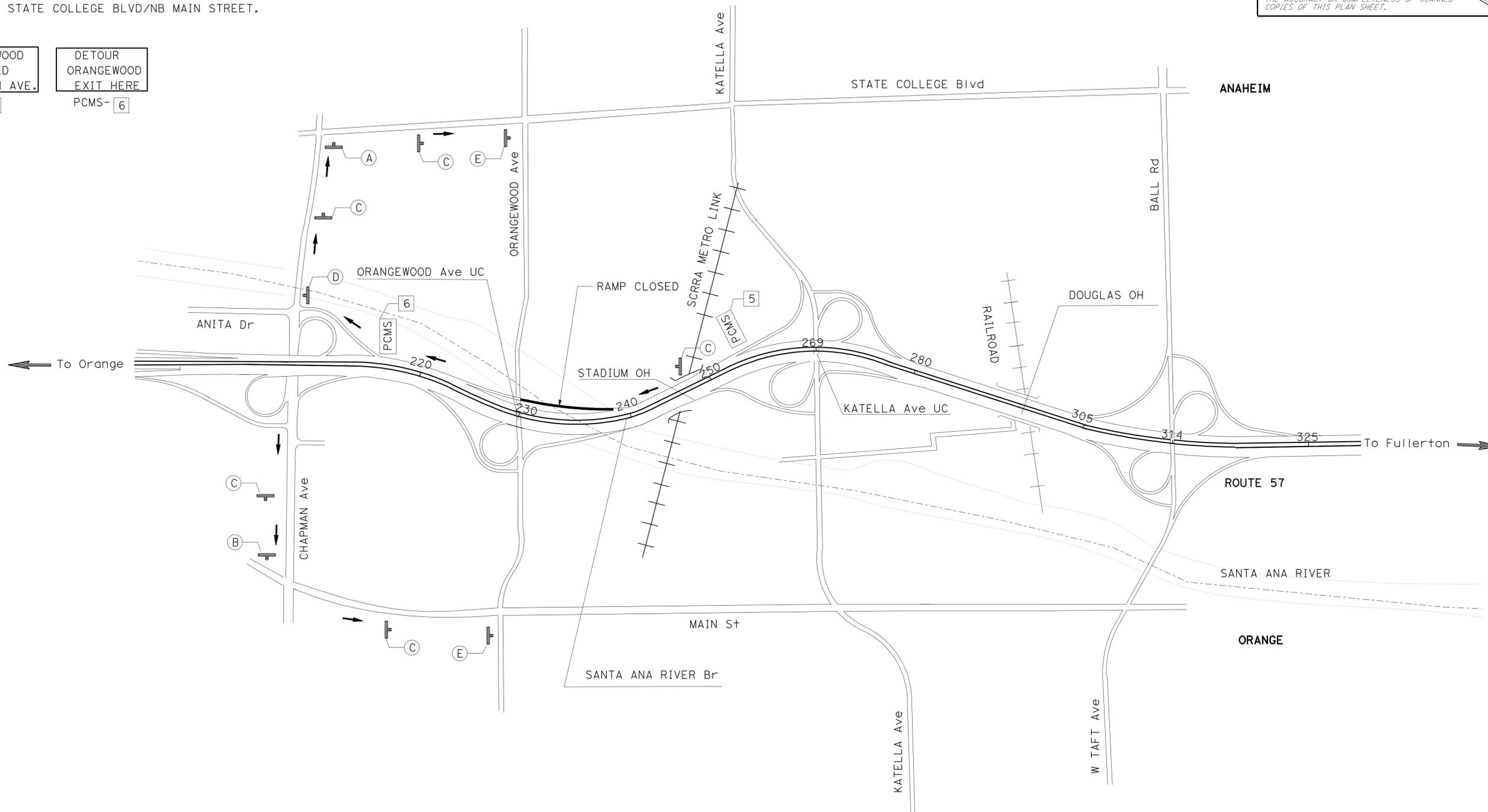
REGISTERED PROFESSIONAL ENGINEER
THUAN NGUYEN
No. C67565
Exp. 06/30/13
CIVIL

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:

CLOSURE:
SB Rte 57 TO ORANGEWOOD AVENUE OFF RAMP

DETOUR:
SB Rte 57 TO CHAPMAN AVENUE OFF RAMP
TO EB/WB CHAPMAN AVENUE
TO NB STATE COLLEGE BLVD/NB MAIN STREET.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION
FUNCTIONAL SUPERVISOR
ANDREW OSHRIN
CALCULATED/DESIGNED BY
CHECKED BY
THUAN T. NGUYEN
RAJU VORA
REVISOR
DATE

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

**DETOUR PLAN
(ORANGEWOOD AVENUE)**

NO SCALE

DE - 4



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	21	56

<i>Thuan N. Nguyen</i> REGISTERED CIVIL ENGINEER No. C67565 Exp. 06/30/13 CIVIL	01-06-2012 DATE 2-13-12 PLANS APPROVAL DATE
---	--

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

NOTE:

SB 57 ON RAMP
CLOSED AHEAD
PCMS-7
1ST. FRAME

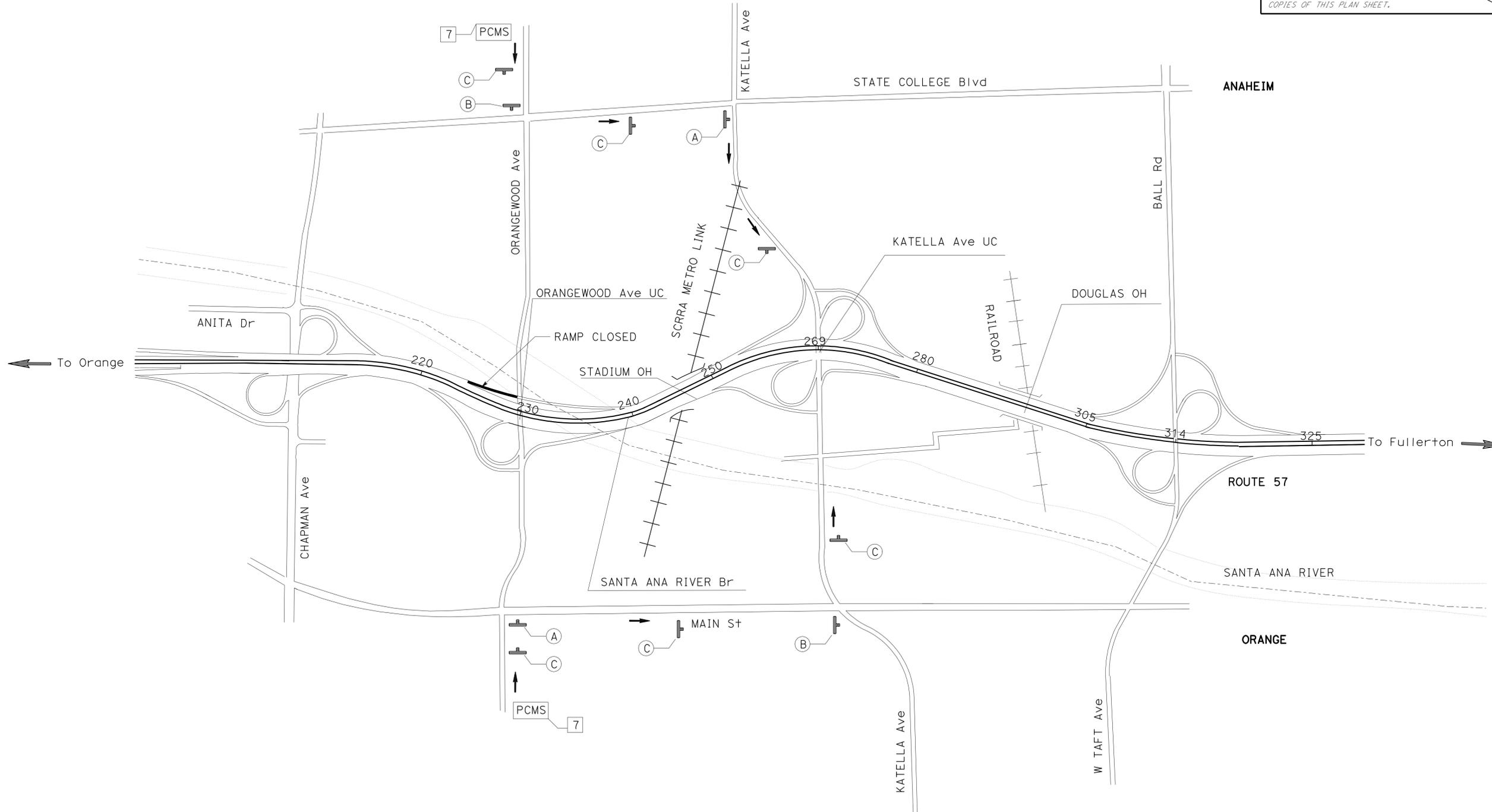
USE DETOUR
ROUTES
2ND. FRAME

CLOSURE:

EB ORANGEWOOD AVENUE TO SB Rte 57

DETOUR:

1. EB ORANGEWOOD AVENUE TO NB STATE COLLEGE BLVD TO EB KATELLA AVENUE
2. WB ORANGEWOOD AVENUE TO NB MAIN STREET TO WB KATELLA AVENUE



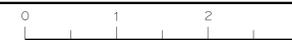
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISED BY	DATE REVISED

**DETOUR PLAN
(ORANGEWOOD AVENUE)**

NO SCALE

DE-5

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	22	56

REGISTERED CIVIL ENGINEER	DATE
THUAN NGUYEN	01-06-2012
No. C67565	
Exp. 06/30/13	
CIVIL	

PLANS APPROVAL DATE: 2-13-12

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:

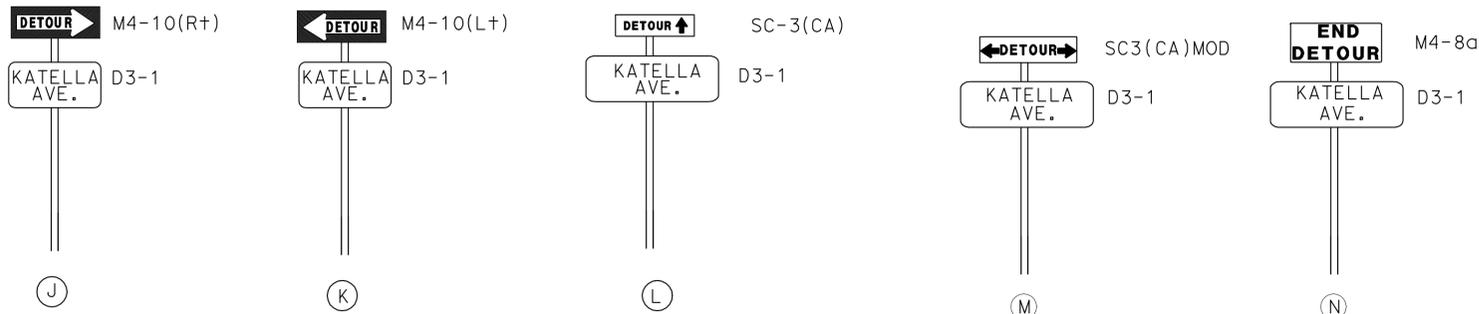
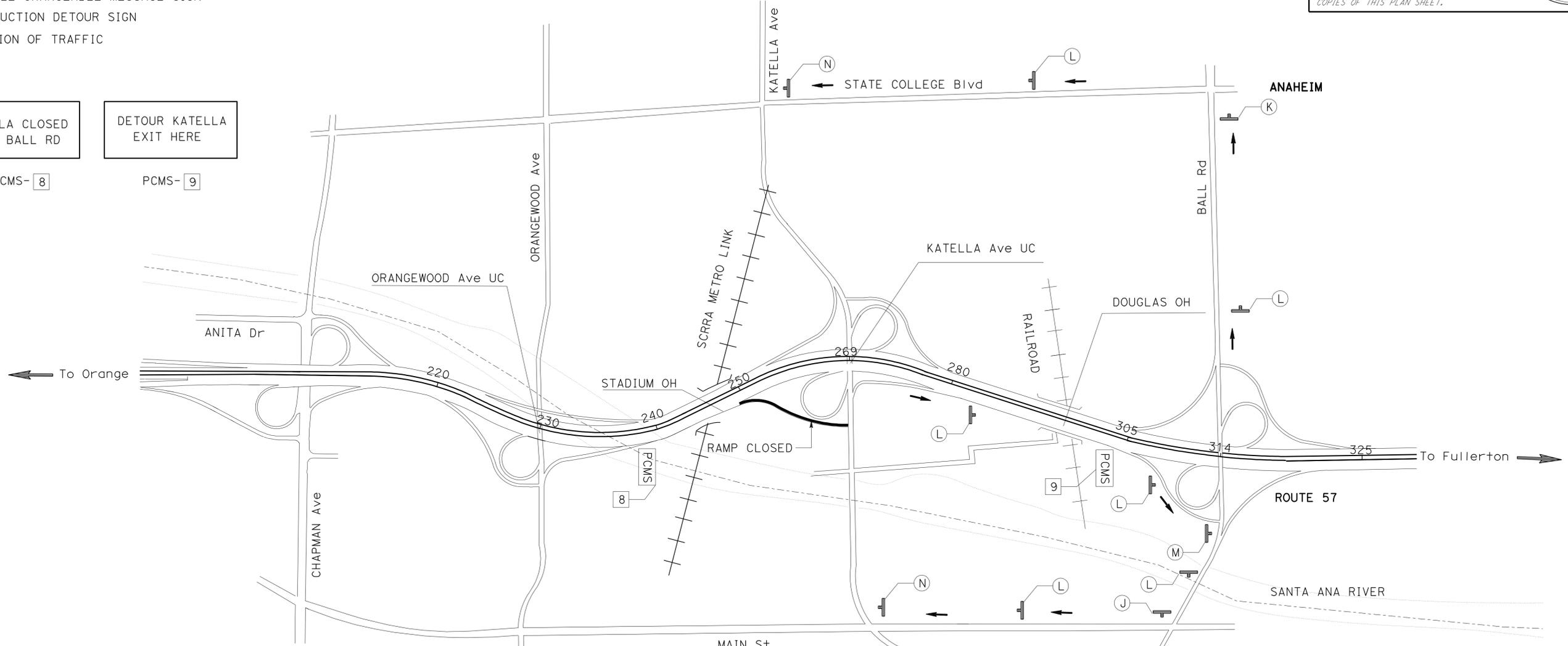
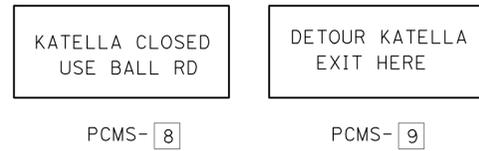
1. SIGN LOCATIONS AND DISPLAY MESSAGES SHOWN ARE APPROXIMATE. EXACT (FINAL) LOCATIONS AND/OR FINAL SIGN MESSAGE/DISPLAY TO BE DETERMINED BY THE ENGINEER.

CLOSURE:
NB Rte 57 TO KATELLA AVENUE OFF RAMP

DETOUR:
NB Rte 57 TO BALL ROAD OFF RAMP TO
EB/WB BALL ROAD TO SB MAIN STREET/ SB STATE COLLEGE BLVD

LEGEND:

- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- (X) CONSTRUCTION DETOUR SIGN
- DIRECTION OF TRAFFIC
- X PCMS #



**DETOUR PLAN
(KATELLA AVENUE)**

NO SCALE

DE-6

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISOR	DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	23	56

THUAN T. NGUYEN	01-06-2012
REGISTERED CIVIL ENGINEER	DATE
2-13-12	
PLANS APPROVAL DATE	

THUAN NGUYEN
No. C67565
Exp. 06/30/13
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.

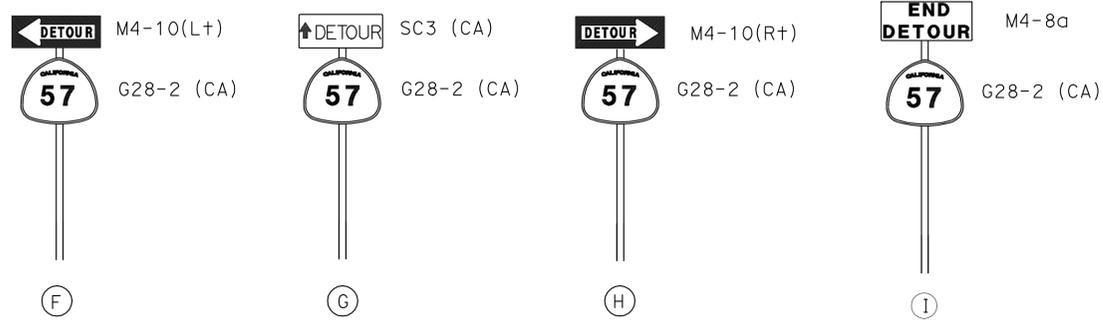
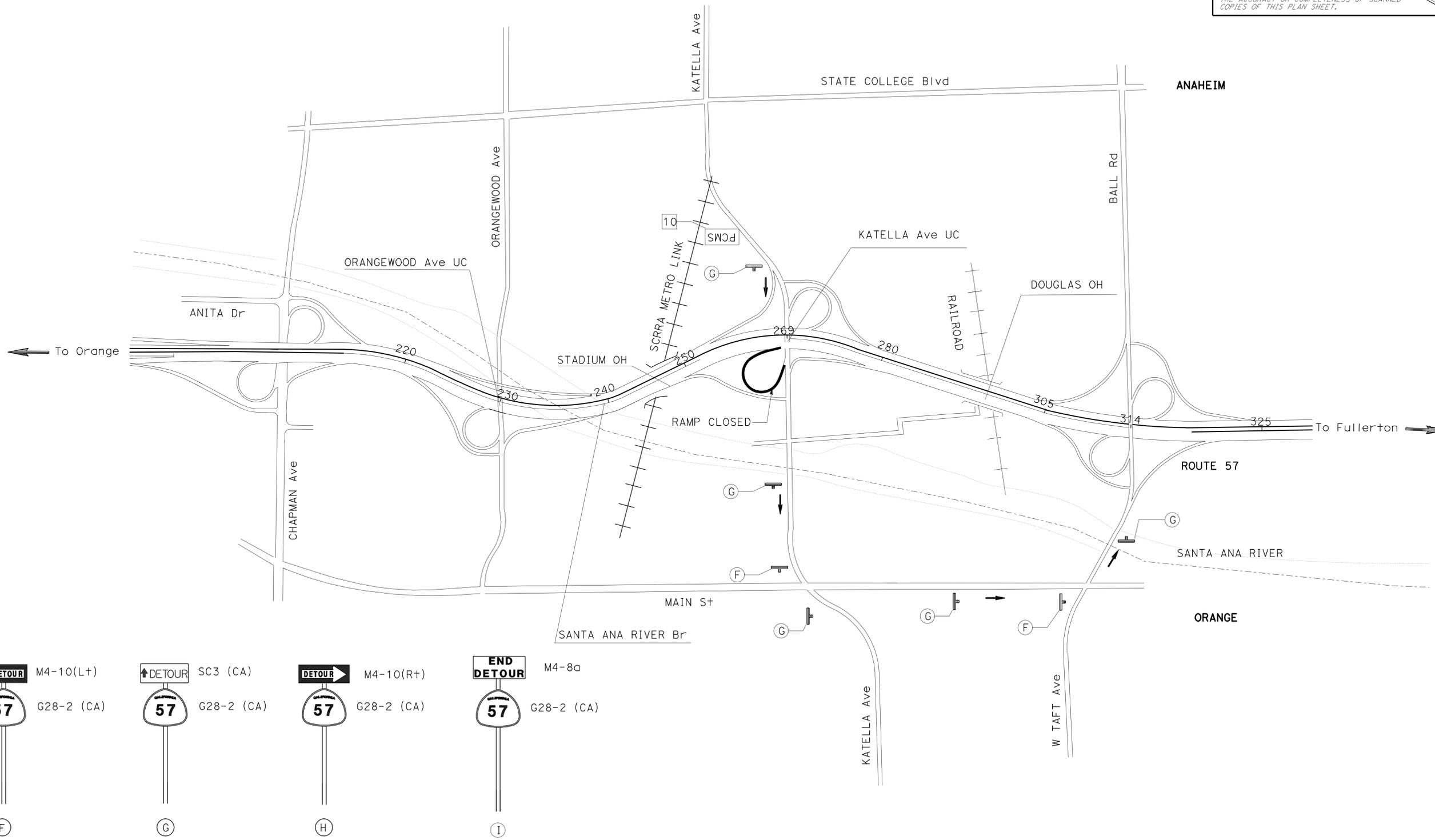
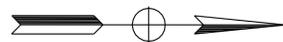
NOTE

NB 57 ON RAMP CLOSED AHEAD
PCMS-10
1ST. FRAME

USE DETOUR ROUTES
2ND. FRAME

CLOSURE:
EB KATELLA AVENUE TO NB Rte 57

DETOUR:
EB KATELLA AVENUE TO NB MAIN STREET TO WB BALL ROAD



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN DIVISION
 FUNCTIONAL SUPERVISOR: ANDREW OSHRIN
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 THUAN T. NGUYEN
 RAJU VORA
 REVISED BY: [blank]
 DATE REVISED: [blank]

**DETOUR PLAN
(KATELLA AVENUE)**

DE - 7

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

NO SCALE

LAST REVISION: DATE PLOTTED => 14-FEB-2012
 12-23-11 TIME PLOTTED => 07:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	24	56
		<i>Thuan N. Nguyen</i> 01-06-2012 REGISTERED CIVIL ENGINEER DATE			
		2-13-12		PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

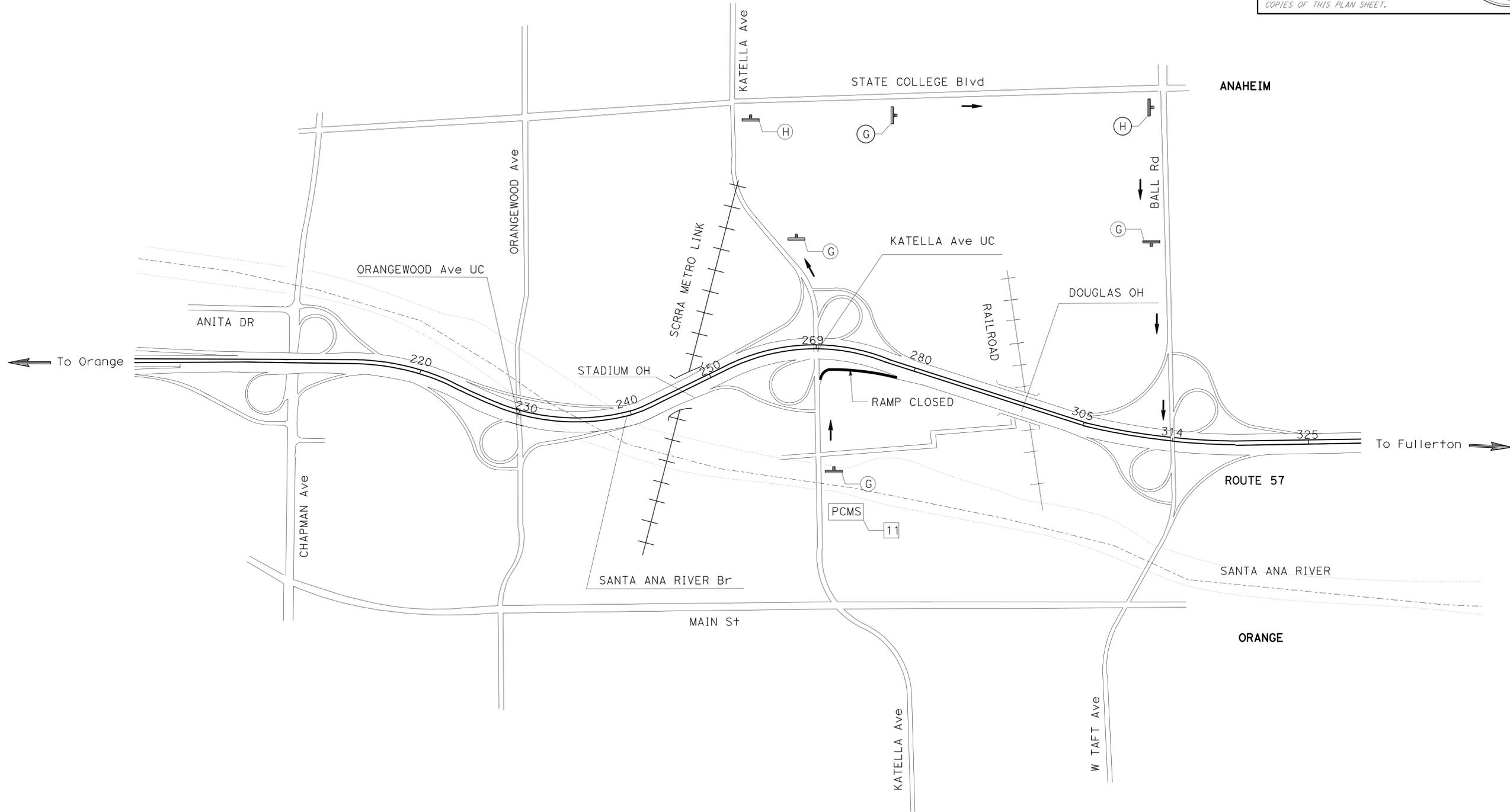
NOTE:

NB 57 ON RAMP
CLOSED AHEAD
PCMS-11
1ST. FRAME

USE DETOUR
ROUTES
2ND. FRAME

CLOSURE:
WB KATELLA AVENUE TO NB Rte 57

DETOUR:
WB KATELLA AVENUE TO NB STATE COLLEGE BLVD. TO EB BALL ROAD



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISED BY	DATE REVISED

**DETOUR PLAN
(KATELLA AVENUE)**

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

NO SCALE

DE-8



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Oran	57	11.8/13.4	25	56
<i>Thuan N. Nguyen</i> 01-06-2012 REGISTERED CIVIL ENGINEER DATE			THUAN NGUYEN No. C67565 Exp. 06/30/13 CIVIL		
2-13-12			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

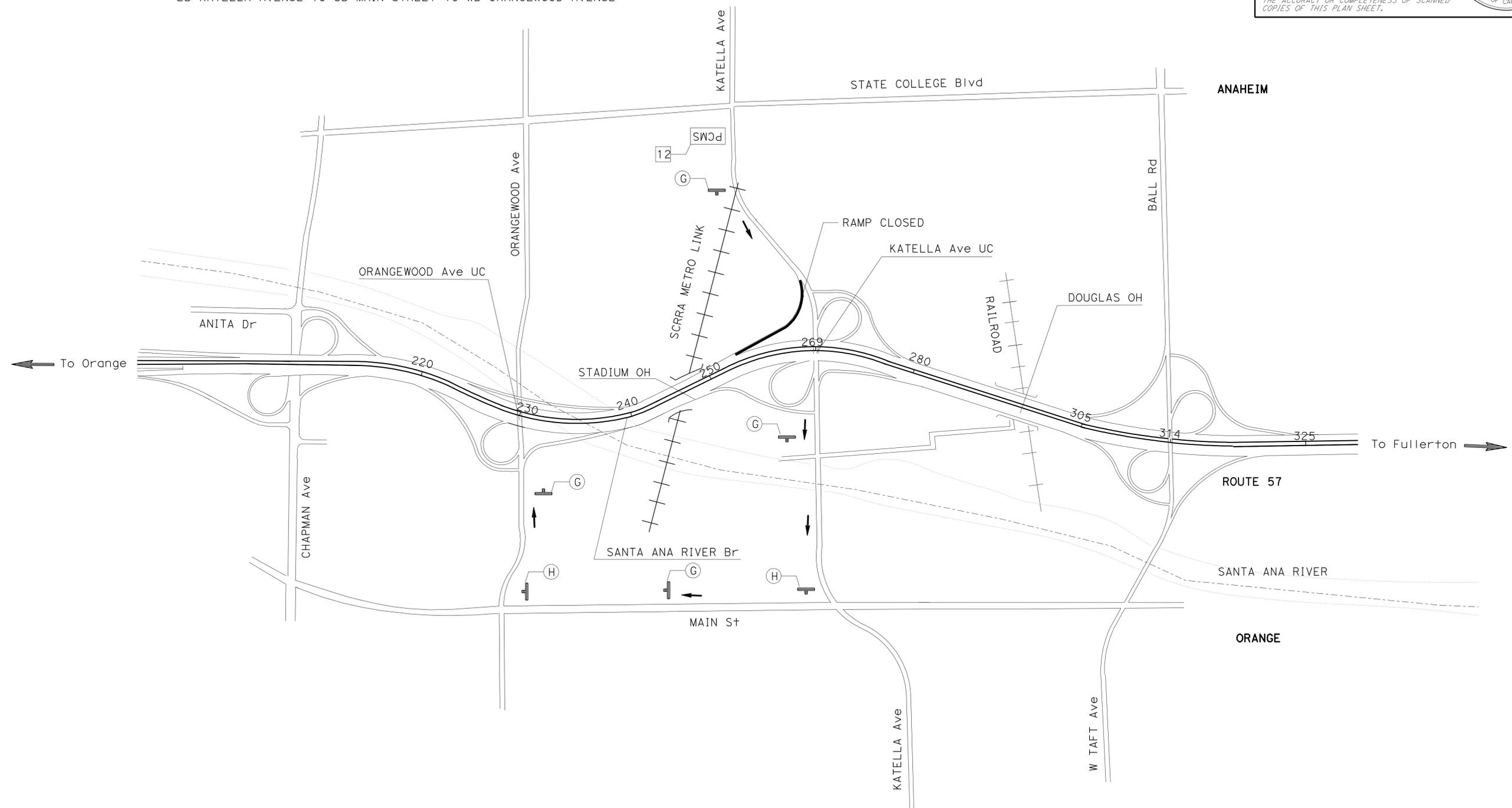
NOTE:

SB 57 ON RAMP CLOSED AHEAD
 PCMS-12
 1ST. FRAME

USE DETOUR ROUTES
 2ND. FRAME

CLOSURE:
 EB KATELLA AVENUE TO SB Rte 57

DETOUR:
 EB KATELLA AVENUE TO SB MAIN STREET TO WB ORANGEWOOD AVENUE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION

FUNCTIONAL SUPERVISOR: ANDREW OSHRIN

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

THUAN T. NGUYEN RAJU VORA

REVISED BY: [] DATE REVISED: []

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

**DETOUR PLAN
 (KATELLA AVENUE)**

NO SCALE

DE-9

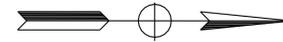
NOTE

CLOSURE:

SB Rte 57 TO KATELLA AVENUE OFF RAMP

DETOUR:

SB Rte 57 TO ORANGEWOOD AVENUE OFF RAMP
 TO EB/WB ORANGEWOOD AVENUE
 TO NB STATE COLLEGE BLVD/NB MAIN STREET.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	26	56

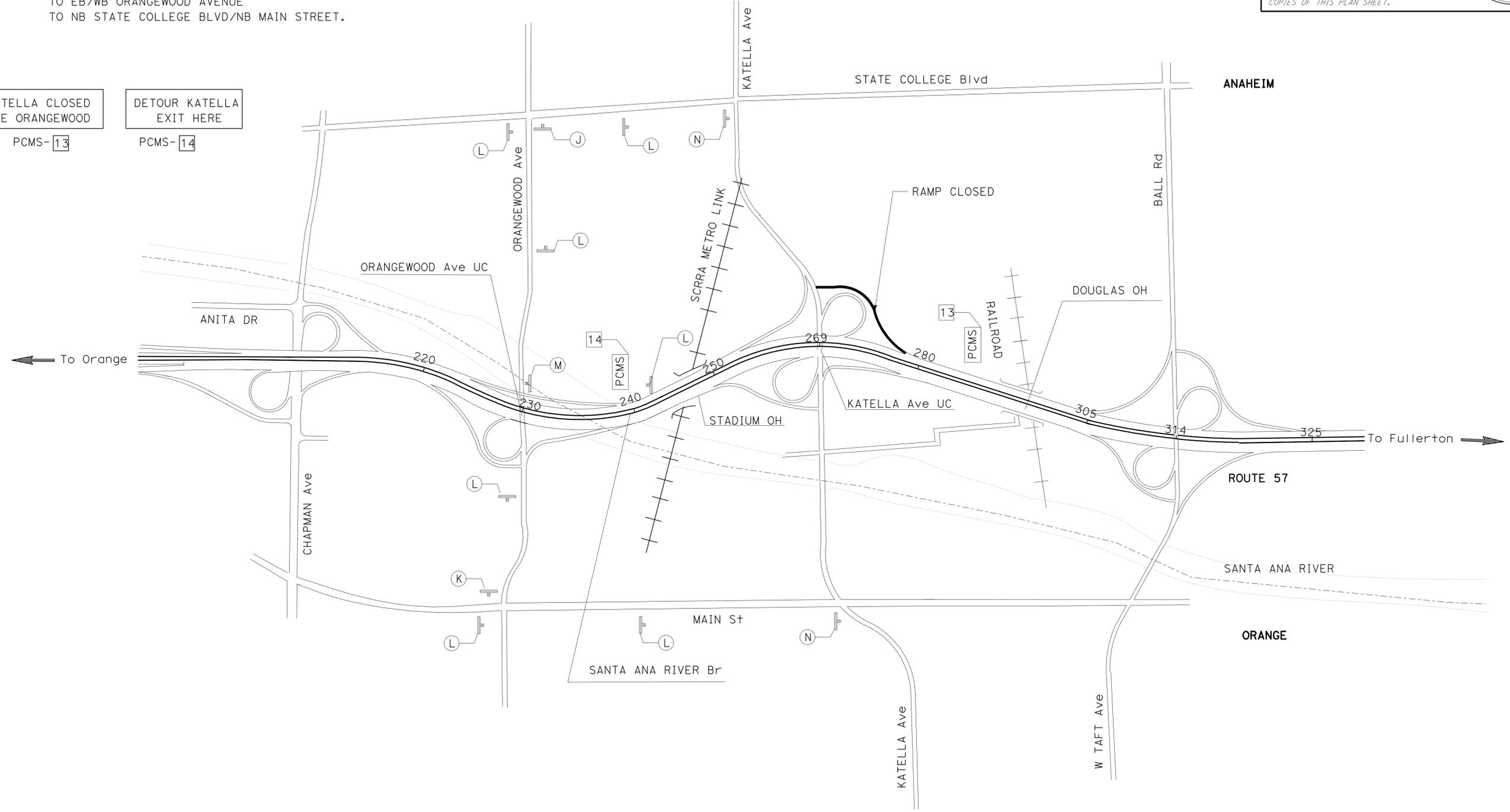
Thuan N. Nguyen	01-06-2012
REGISTERED CIVIL ENGINEER	DATE
2-13-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
 THUAN NGUYEN
 No. C67565
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

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KATELLA CLOSED
 USE ORANGEWOOD
 PCMS-13

DETOUR KATELLA
 EXIT HERE
 PCMS-14



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISED BY	DATE REVISED

**DETOUR PLAN
 (KATELLA AVENUE)**

NO SCALE

DE-10

Approved For Detour Construction Work Only



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	27	56
<i>Thuan N. Nguyen</i> 01-06-2012 REGISTERED CIVIL ENGINEER DATE			REGISTERED PROFESSIONAL ENGINEER THUAN NGUYEN No. C67565 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA		
2-13-12			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTE

CLOSURE:

WB KATELLA AVENUE TO SB Rte 57

DETOUR:

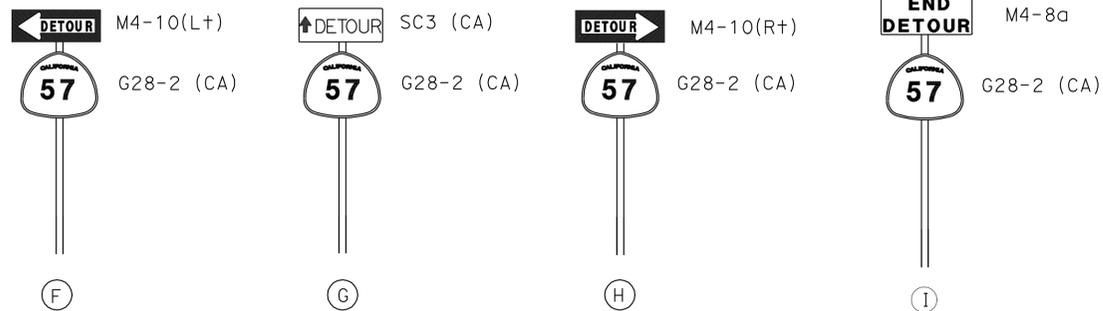
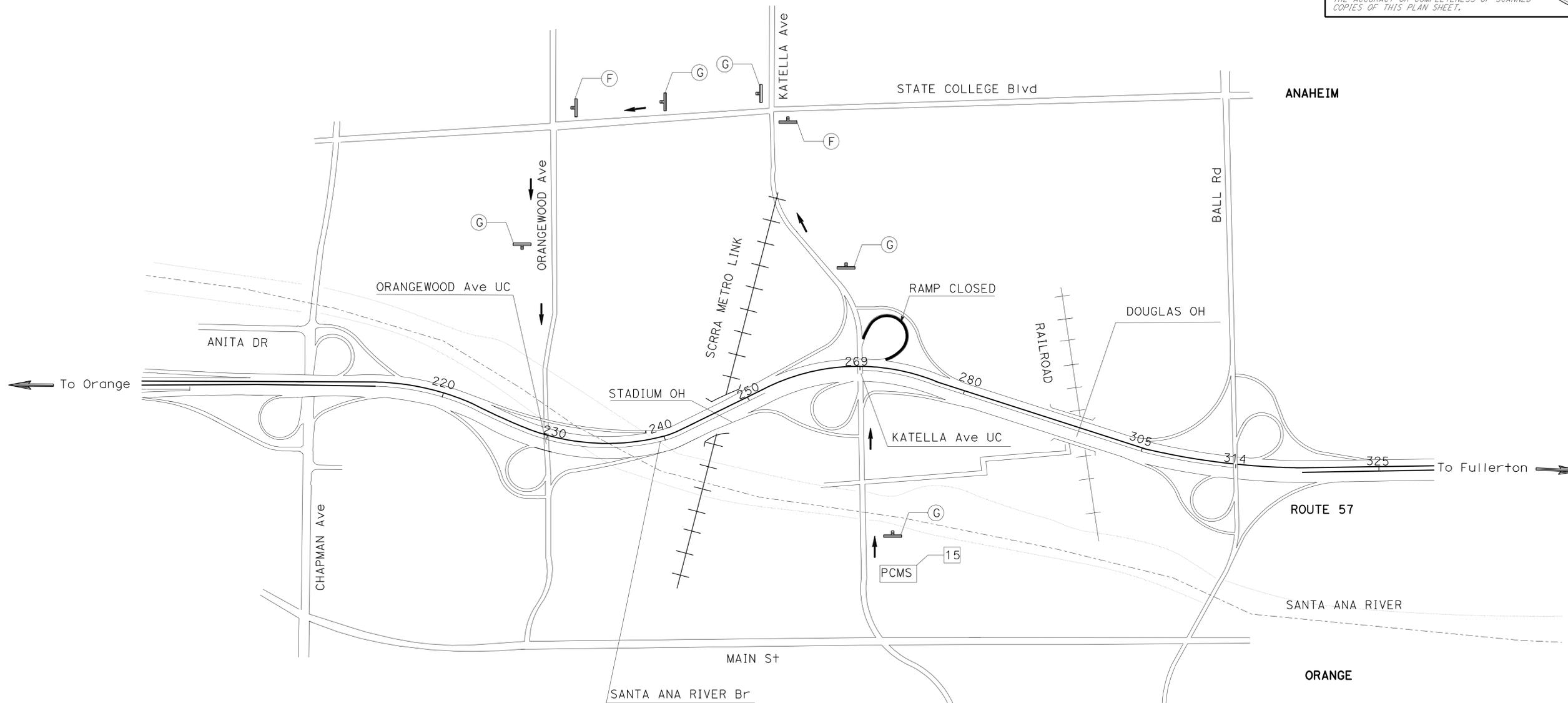
WB KATELLA AVENUE TO SB STATE COLLEGE BLVD TO EB ORANGEWOOD AVENUE

SB 57 ON RAMP
CLOSED AHEAD

USE DETOUR
ROUTES

PCMS-15
1ST. FRAME

2ND. FRAME



**DETOUR PLAN
(KATELLA AVENUE)**

NO SCALE

DE-11

Approved For Detour Construction Work Only

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN DIVISION
FUNCTIONAL SUPERVISOR	ANDREW OSHRIN
CALCULATED/DESIGNED BY	CHECKED BY
THUAN T. NGUYEN	RAJU VORA
REVISED BY	DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	29	56
<i>Thuan N. Nguyen</i> 01-06-2012 REGISTERED CIVIL ENGINEER DATE					
2-13-12			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTE 1. EXACT SIGN LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
 2. SIGNS SHALL HAVE BLACK LETTERING AND BORDERS WITH ANY ORANGE BACKGROUND

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (KATELLA AVENUE)

SHEET No.	SIGN SYMBOL	SIGN CODE	PANEL SIZE (in)	No. OF SIGNS	No. OF POST AND SIZE (in)
DE-6	ⓐ	M4-10 (R+)	48" x 18"	1	1 - 4" x 6"
		G20-2 (MOD)	24" x 12"	1	1 - 4" x 6"
	ⓑ	M4-10 (L+)	48" x 18"	1	1 - 4" x 6"
		G20-2 (MOD)	24" x 12"	1	1 - 4" x 6"
	ⓒ	SC-3 (CA)	48" x 18"	6	1 - 4" x 6"
		G20-2 (MOD)	24" x 12"	6	1 - 4" x 6"
ⓓ	SC-3(CA) MOD	48" x 18"	1	1 - 4" x 6"	
	G20-2 (MOD)	24" x 12"	1	1 - 4" x 6"	
ⓔ	M4-8a	48" x 18"	2	1 - 4" x 6"	
	G20-2 (MOD)	24" x 12"	2	1 - 4" x 6"	
DE-7	Ⓕ	M4-10 (L+)	48" x 18"	2	1 - 4" x 6"
		G28-2 (CA)	24" x 12"	2	1 - 4" x 6"
DE-8	Ⓖ	SC-3 (CA)	48" x 18"	5	1 - 4" x 6"
		G28-2 (CA)	24" x 12"	5	1 - 4" x 6"
DE-9	Ⓖ	SC-3 (CA)	48" x 18"	4	1 - 4" x 6"
		G28-2 (CA)	24" x 12"	4	1 - 4" x 6"
DE-10	ⓐ	M4-10 (R+)	48" x 18"	1	1 - 4" x 6"
		G20-2 (MOD)	24" x 12"	1	1 - 4" x 6"
DE-11	ⓑ	M4-10 (L+)	48" x 18"	2	1 - 4" x 6"
		G28-2 (CA)	24" x 12"	2	1 - 4" x 6"
DE-11	ⓒ	SC-3 (CA)	48" x 18"	5	1 - 4" x 6"
		G28-2 (CA)	24" x 12"	5	1 - 4" x 6"

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

SHEET No.	SIGN SYMBOL	PCMS No.	FRAME	SIGN MESSAGE	No. OF SIGNS
DE-1	1	PCMS-1		ORANGEWOOD CLOSED USE KATELLA	1
				DETOUR ORANGEWOOD EXIT HERE	1
DE-2	3	PCMS-3	1ST FRAME	NB 57 ON RAMP CLOSED AHEAD	1
			2ND FRAME	USE DETOUR ROUTES	
DE-3	4	PCMS-4	1ST FRAME	NB 57 ON RAMP CLOSED AHEAD	1
			2ND FRAME	USE DETOUR ROUTES	
DE-4	5	PCMS-5		ORANGEWOOD CLOSED USE CHAPMAN AVE.	1
				DETOUR ORANGEWOOD EXIT HERE	
DE-5	7	PCMS-7	1ST FRAME	SB 57 ON RAMP CLOSED AHEAD	1
			2ND FRAME	USE DETOUR ROUTES	
DE-6	8	PCMS-8		KATELLA CLOSED USE BALL RD.	1
				DETOUR KATELLA EXIT HERE	
DE-7	10	PCMS-10	1ST FRAME	NB 57 ON RAMP CLOSED AHEAD	1
			2ND FRAME	USE DETOUR ROUTES	
DE-8	11	PCMS-11	1ST FRAME	NB 57 ON RAMP CLOSED AHEAD	1
			2ND FRAME	USE DETOUR ROUTES	
DE-9	12	PCMS-12	1ST FRAME	SB 57 ON RAMP CLOSED AHEAD	1
			2ND FRAME	USE DETOUR ROUTES	
DE-10	13	PCMS-13		KATELLA CLOSED USE ORANGEWOOD	1
				DETOUR KATELLA EXIT HERE	
DE-11	15	PCMS-15	1ST FRAME	SB 57 ON RAMP CLOSED AHEAD	1
			2ND FRAME	USE DETOUR ROUTES	

EXACT MESSAGE ON PCMS TO BE DETERMINED BY THE ENGINEER

DETOUR QUANTITIES

DEQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
 FUNCTIONAL SUPERVISOR ANDREW OSHRIN
 CALCULATED/DESIGNED BY THUAN T. NGUYEN
 CHECKED BY RAJU VORA
 REVISED BY THUAN T. NGUYEN
 DATE REVISED

LAST REVISION DATE PLOTTED => 14-FEB-2012
 01-05-12 TIME PLOTTED => 07:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	30	56

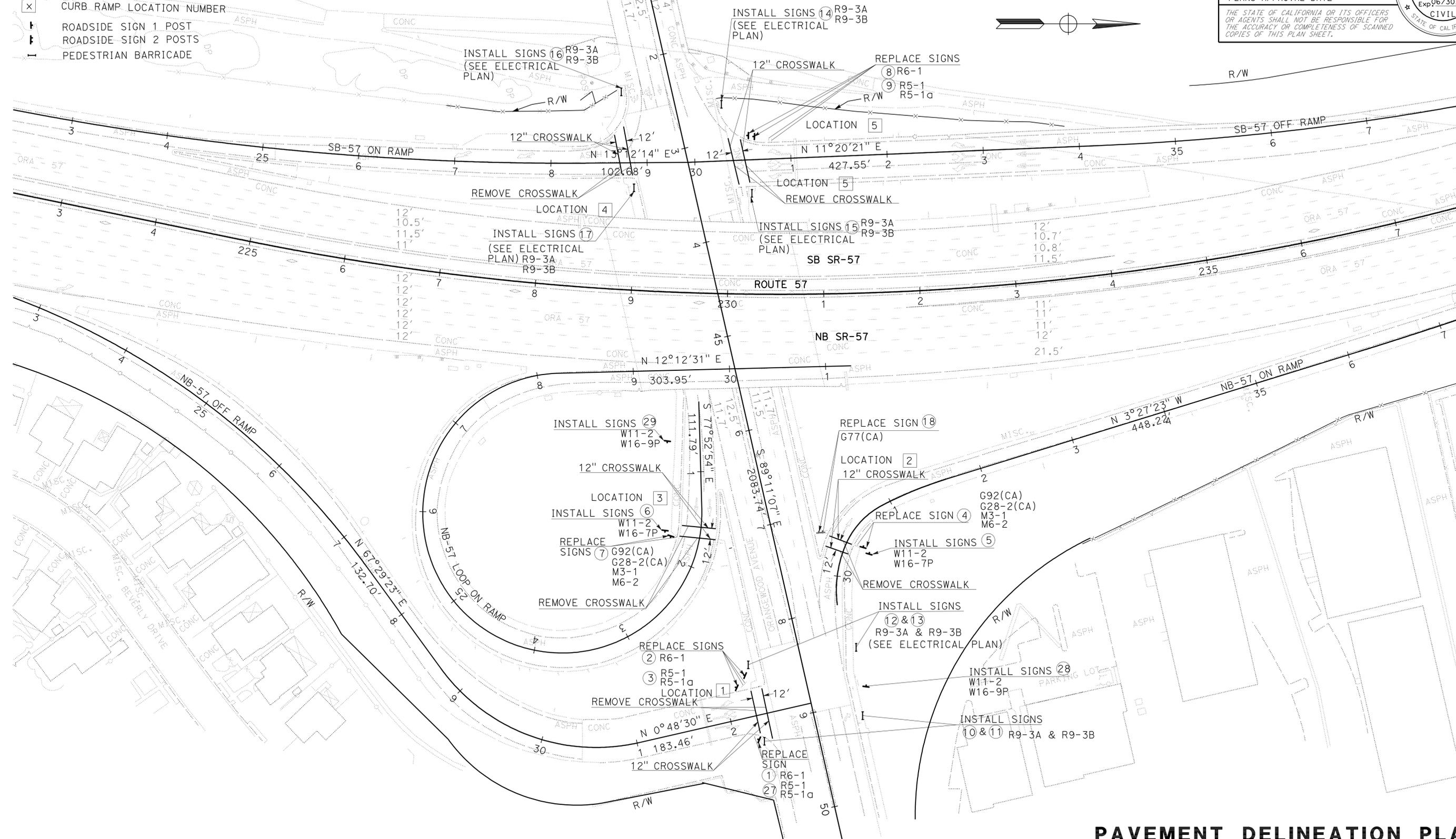
Thuan N. Nguyen	01-06-2012
REGISTERED CIVIL ENGINEER	DATE
2-13-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
THUAN NGUYEN
No. C67565
Exp. 06/30/13
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. ALL CONFLICTING TRAFFIC STRIPES, PAVEMENT MARKERS AND PAVEMENT MARKING SHOULD BE REMOVED
 2. SIGN CODES ARE MUTCD CODES UNLESS OTHERWISE NOTED.

- LEGEND:**
- (X) SIGN IDENTIFICATION NUMBER
 - [X] CURB RAMP LOCATION NUMBER
 - ROADSIDE SIGN 1 POST
 - ROADSIDE SIGN 2 POSTS
 - PEDESTRIAN BARRICADE



PAVEMENT DELINEATION PLAN AND SIGN PLAN
 NO SCALE **PD - 1**

Approved For Pavement Delineation And Sign Work Only

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION

REVISOR: THUAN T. NGUYEN
 RAJU VORA
 CALCULATED/DESIGNED BY: ANDREW OSHRIN

LAST REVISION: DATE PLOTTED => 14-FEB-2012
 01-05-12 TIME PLOTTED => 07:12

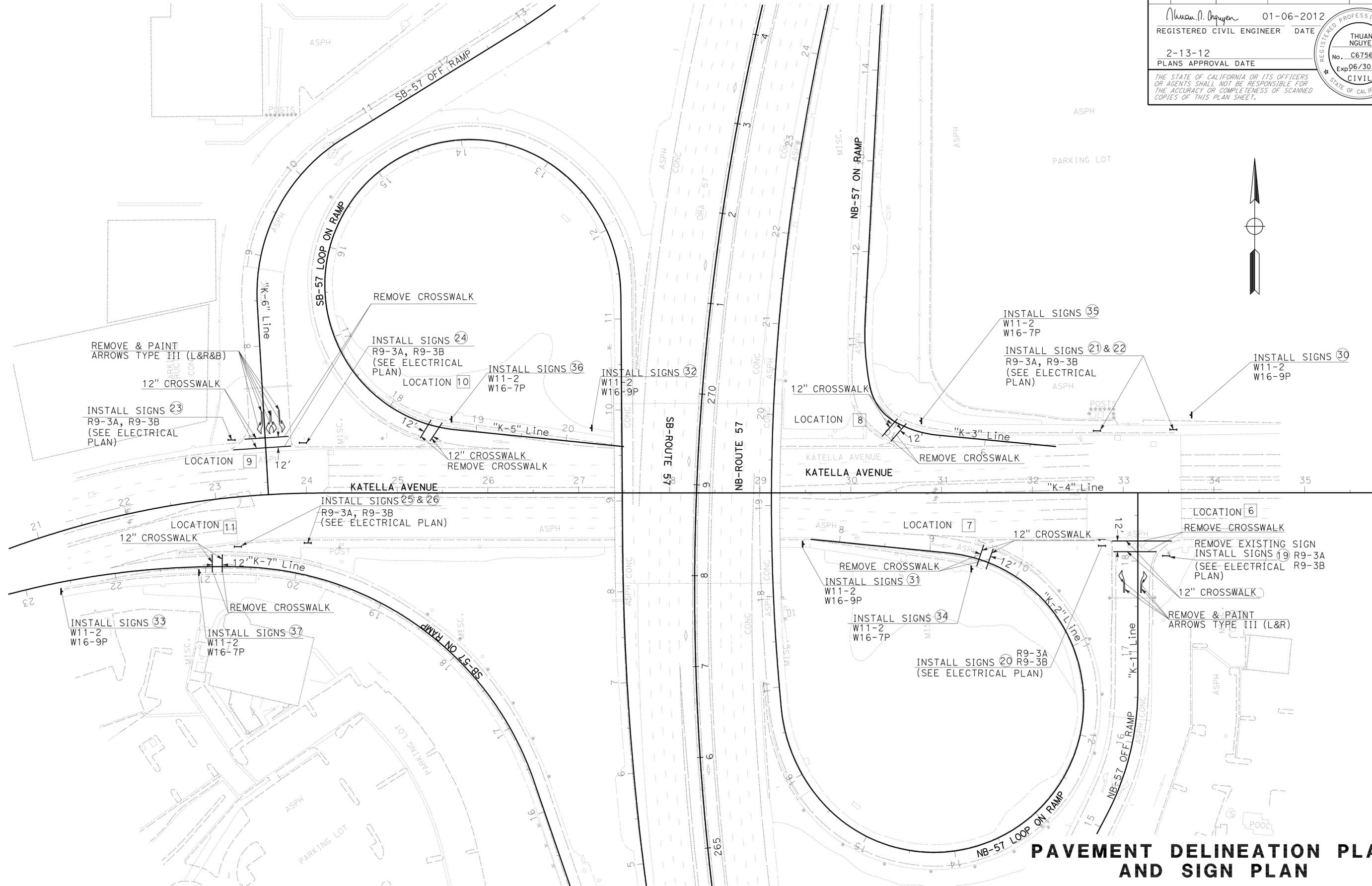
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	31	56

Thuan N. Nguyen	01-06-2012
REGISTERED CIVIL ENGINEER	DATE
2-13-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
THUAN NGUYEN
No. C67565
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION
FUNCTIONAL SUPERVISOR
ANDREW OSHRIN
CALCULATED/DESIGNED BY
CHECKED BY
THUAN T. NGUYEN
RAJU VORA
REVISOR
DATE



PAVEMENT DELINEATION PLAN AND SIGN PLAN

NO SCALE PD- 2

Approved For Pavement Delineation And Sign Work Only

LAST REVISION DATE PLOTTED => 14-FEB-2012 12-29-11 TIME PLOTTED => 07:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	32	56

Thuan N. Nguyen 01-06-2012
 REGISTERED CIVIL ENGINEER DATE
 2-13-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 THUAN NGUYEN
 No. C67565
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

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 COPIES OF THIS PLAN SHEET.

SIGN QUANTITIES

SHEET No.	LOCATION □	SIGN No. ○	SIGN CODE	PANEL SIZE (IN x IN)	POST SIZE & LENGTH (N)			INSTALL ROADSIDE SIGN		REMOVE ROADSIDE SIGN	REMOVE ROADSIDE SIGN (STRAP & SADDLE BRACKET METHOD)	INSTALL SIGN ON PEDESTRIAN BARRICADE (N)
					4" x 4" FT	4" x 6" FT	6" x 6" FT	ONE POST EA	TWO POSTS EA			
PD-1	1	1	R6-1	36 x 12	6			1		1		
		2	R6-1	36 x 12	6			1		1		
		3, 27	R5-1	48 x 48			14	2		2		
	2	4		R5-1a	42 x 30					2		
				G92(CA)	48 x 30		14	1		1		
				G28-2(CA)	240 x 25							
				M3-1	30 x 15							
PD-1, PD-2	2, 3, 7, 8, 10, 11	5, 6, 34, 35, 36, 37		W11-2	36 x 36			6				
				W16-7P	24 x 12							
PD-1	3	7		G92(CA)	48 x 30			1		1		
				G28-2(CA)	240 x 25							
				M3-1	30 x 15							
	5	8	9		R6-1	36 x 12	6			1		
					R5-1	48 x 48			14	1		1
	1	10, 11, 12, 13			R5-1a	42 x 30						
					R9-3A	18 x 18						4
	5	14, 15			R9-3B	18 x 12						
					R9-3A	18 x 18						2
	4	16, 17			R9-3B	18 x 12						
					R9-3A	18 x 18						2
	2	18			G77-7(CA)	126 x 66				1	1	
PD-1, PD-2	2, 3, 7, 8, 10, 11	28, 29, 30, 31, 32, 33		W11-2	36 x 36		17	6				
				W16-9P	24 x 12							
PD-2	6	19, 20, 21, 22		R9-3A	18 x 18					1	4	
				R9-3B	18 x 12					1		
	9	23, 24		R9-3A	18 x 18						2	
				R9-3B	18 x 12							
	11	25, 26		R9-3A	18 x 18							2
			R9-3B	18 x 12								
TOTAL							20	1	11	2	16	

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

PAVEMENT DELINEATION AND SIGN QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN DIVISION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	33	56

Thuan N. Nguyen 01-06-2012
 REGISTERED CIVIL ENGINEER DATE
 2-13-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 THUAN NGUYEN
 No. C67565
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

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

PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION CURB No.	FROM STATION	TO STATION	REMOVE THERMOPLASTIC PAVEMENT MARKING				THERMOPLASTIC PAVEMENT MARKING			
				CROSS WALK	ARROWS			CROSS WALK	ARROWS		
				12" SQFT	TYPE III (R) SQFT	TYPE III (L) SQFT	TYPE III (B) SQFT	12" SQFT	TYPE III (R) SQFT	TYPE III (L) SQFT	TYPE III (B) SQFT
PD-1	1	"0-4" 49+13.00	"0-4" 49+26.77	99				99			
		"0-4" 48+44.42	"0-4" 48+63.27								
	2	"0-4" 47+13.23	"0-4" 47+38.68	50				50			
		"0-3" 30+13.94	"0-3" 30+38.37								
	3	"0-2" 21+45.68	"0-2" 21+71.16	73				73			
"0-4" 46+88.16		"0-4" 47+14.73									
4	"0-4" 43+12.50	"0-4" 43+29.41	96				96				
	"0-4" 42+50.82	"0-4" 42+69.60									
5	"0-4" 42+83.62	"0-4" 42+05.04	108				108				
	"0-4" 42+52.54	"0-4" 42+64.71									
PD-2	6	"K-4" 33+41.17	"K-4" 33+60.85	114	42	42		114	42	42	
		"K-1" 18+11.48	"K-1" 18+25.76								
	7	"K-2" 9+45.18	"K-2" 9+63.22	49				49			
		"K-2" 9+58.58	"K-2" 9+79.73								
	8	"K-4" 30+21.75	"K-4" 30+43.96	50				50			
		"K-4" 30+50.52	"K-4" 30+72.71								
	9	"K-4" 25+37.48	"K-4" 25+56.76	113	42	42	73	113	42	42	73
		"K-4" 25+17.57	"K-4" 25+43.96								
	10	"K-4" 23+16.86	"K-4" 23+46.67	48				48			
		"K-4" 23+80.93	"K-4" 23+98.97								
	11	"K-6" 20+01.67	"K-6" 20+22.70	40				40			
"K-7" 20+73.98		"K-7" 20+92.62									
SUBTOTAL				839	84	84	73	839	84	84	73
TOTAL				1080				1080			

PAVEMENT DELINEATION AND SIGN QUANTITIES

PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION
 FUNCTIONAL SUPERVISOR ANDREW OSHRIN
 CALCULATED/DESIGNED BY THUAN T. NGUYEN
 CHECKED BY RAJU VORA
 REVISED BY
 DATE REVISED

LAST REVISION | DATE PLOTTED => 14-FEB-2012
 01-04-12 | TIME PLOTTED => 07:03

MATERIAL SUMMARY (CONTRACTOR FURNISHED SIGNS)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	34	56

Thuan N. Nguyen 01-06-2012
 REGISTERED CIVIL ENGINEER DATE
 2-13-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 THUAN NGUYEN
 No. C67565
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 CIVIL
 STATE OF CALIFORNIA

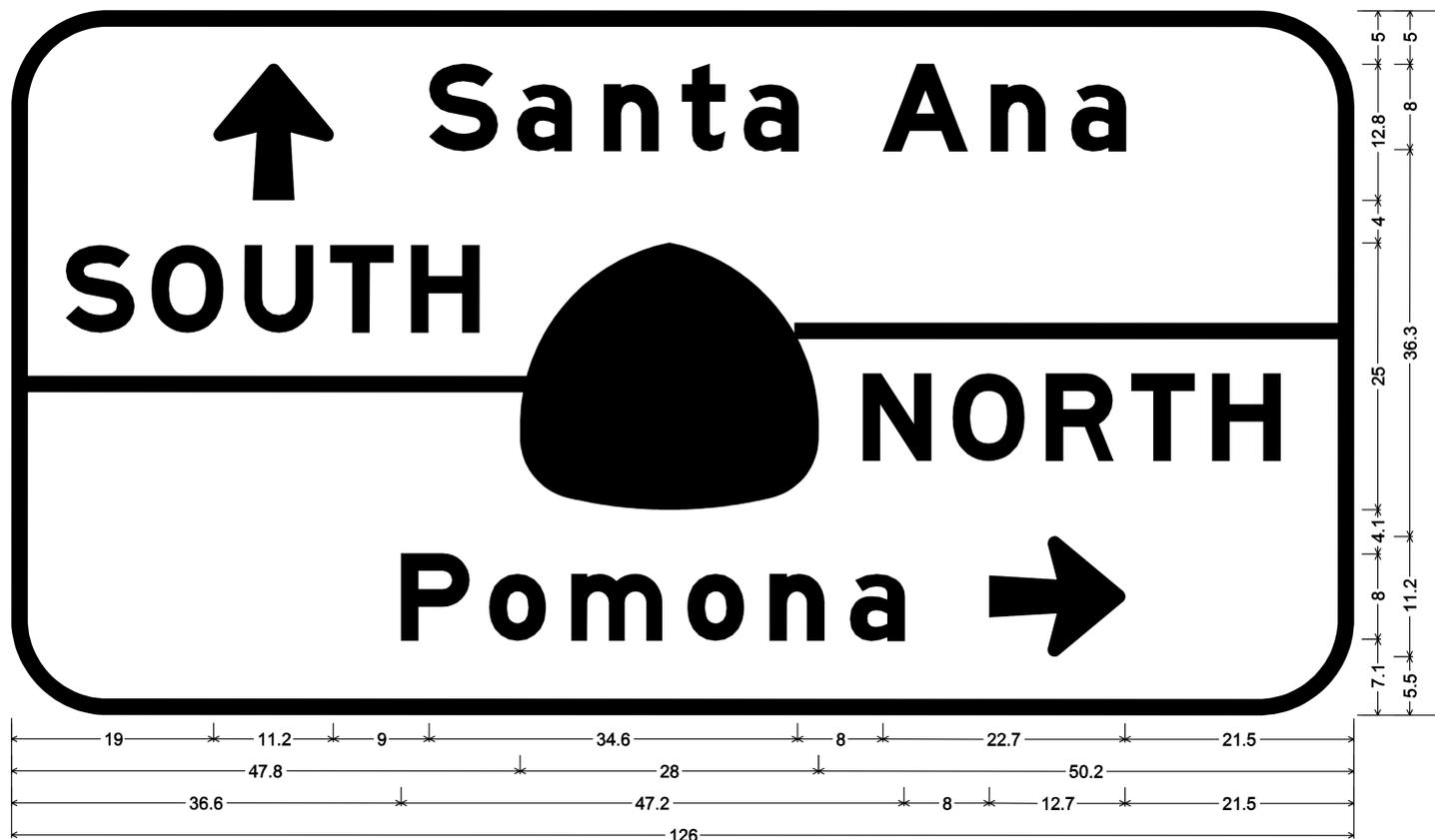
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SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE (IN x IN) X No. OF SIGN	SIGN AREA	SINGLE FACED	BACKGROUND		LEGENDS		PROTECTIVE FILM		FURNISH SINGLE-SHEET ALUMINUM	
						SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	STANDARD	PREMIUM	ROADSIDE SIGN PANEL	
												0.063 inch (UNFRAMED)	0.080 inch (UNFRAMED)
				SQFT								SQFT	SQFT
PD-1	1, 2, 8	R6-1	(36 x 12) X 3	3.0		W	IV	B	Non	X		9.0	
	4 & 7	G92(CA)	(48 x 30) X 2	10.0	X	G	IX	W	IX		X		20
		G28-2(CA)	(24 x 25) X 2	4.2	X	G	IV	W	IV		X	8.4	
		M3-1	(30 x 15) X 2	3.2	X	G	IV	W	IV		X	6.4	
		M6-2	(21 x 15) X 2	2.2	X	G	IV	W	IV		X	4.4	
	5, 6, 34 35, 36, 37	W11-2	(36 x 36) X 6	9.0		Y	Non	B	III		X	54.0	
		W16-7P	(24 x 12) X 6	2.0	X	Y	Non	B	III		X	12.0	
3, 9, 27	R5-1	(48 x 48) X 2	16.0		W	IX	R	IX		X	32.0		
	R5-1a	(42 x 30) X 2	8.75							X	17.5		
PD-1 & PD-2	10, 11, 12, 13 15, 16, 17, 18 19, 20, 21, 22 23, 24, 25, 26	R9-3A	(18 x 18) X 16	2.25		W	IV	B	III		X	36.0	
		R9-3B	(18 x 12) X 16	1.5		W	IV	B	III		X	24.0	
PD-1	18	G77-7(CA)	(126 x 66)	57.75	X	G	IV		IV	X			57.75
PD-1 & PD-2	28, 29, 30, 31, 32, 33	W11-2	(36 x 36) X 6	9.0		Y	Non	B	III		X	54.0	
		W16-9P	(24 x 12) X 6	2.0	X	Y	Non	B	III		X	12.0	
TOTAL												269.7	77.8

LEGENDS:

B = BLACK
 W = WHITE
 G = GREEN
 Y = YELLOW
 Non = NON REFLECTIVE

Sign No. 18



9.0" Radius, 1.5" Border, White on Green;
 Arrow 8UC-1L - 12.8" 90°; [Santa Ana] E Mod; [Pomona] E Mod; Arrow 8UC-1L - 12.8" 0°;

**PAVEMENT DELINEATION
AND SIGN QUANTITIES**

PDQ-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	35	56

Thuan N. Nguyen 01-06-2012
 REGISTERED CIVIL ENGINEER DATE
 2-13-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 THUAN NGUYEN
 No. C67565
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

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

REMOVE CONCRETE

SHEET No.	LOCATION CURB No.	FROM STATION	TO STATION	REMOVE CONCRETE		
				REMOVE 8 INCHES DEPTH		
				CURB RAMP (CY)	SIDEWALK (CY)	CURB AND GUTTER (CY)
C-1	1	"O-4" 49+13.00	"O-4" 49+26.77	0.82	1.14	0.49
		"O-4" 48+44.42	"O-4" 48+63.27	0.91	1.18	1.23
C-2	2	"O-4" 47+13.23	"O-4" 47+38.68	1.51	1.15	1.09
		"O-3" 30+13.94	"O-3" 30+38.37	1.12	2.45	1.25
C-3	3	"O-2" 21+45.68	"O-2" 21+71.16	1.02	0.83	1.25
		"O-4" 46+88.16	"O-4" 47+14.73	1.28	3.22	1.34
C-4	4	"O-4" 43+12.50	"O-4" 43+29.41	0.75	0.98	1.24
		"O-4" 42+50.82	"O-4" 42+69.60	1.07	1.53	0.33
C-5	5	"O-4" 42+83.62	"O-4" 42+05.04	1.42	0.20	1.19
		"O-4" 42+52.54	"O-4" 42+64.71	1.52	1.06	0.49
C-6	6	"K-4" 33+41.17	"K-4" 33+60.85	1.43	0.34	0.49
		"K-1" 18+11.48	"K-1" 18+25.76	0.83	1.32	1.18
C-7	7	"K-2" 9+45.18	"K-2" 9+63.22	1.34	0.80	0.38
		"K-2" 9+58.58	"K-2" 9+79.73	1.49	0.70	1.19
C-8	8	"K-4" 30+21.75	"K-4" 30+43.96	1.66	1.13	0.89
		"K-4" 30+50.52	"K-4" 30+72.71	1.55	2.39	0.56
C-9	9	"K-4" 25+37.48	"K-4" 25+56.76	0.81	0.95	0.18
		"K-4" 25+17.57	"K-4" 25+43.96	0.71	1.04	2.40
C-10	10	"K-4" 23+16.86	"K-4" 23+46.67	1.84	0.19	1.08
		"K-4" 23+80.93	"K-4" 23+98.97	1.06	1.33	0.81
C-11	11	"K-6" 20+01.67	"K-6" 20+22.70	2.20	0.35	1.05
		"K-7" 20+73.98	"K-7" 20+92.62	3.27	1.00	1.12
SUBTOTAL				29.6	25.25	21.2
TOTAL				76.05		

ROADWAY QUANTITIES

SHEET No.	LOCATION CURB No.	FROM STATION	TO STATION	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	
				CURB RAMP (CY)	CURB AND GUTTER (CY)
C-1	1	"O-4" 49+13.00	"O-4" 49+26.77	2.55	0.49
		"O-4" 48+44.42	"O-4" 48+63.27	2.23	1.23
C-2	2	"O-4" 47+13.23	"O-4" 47+38.68	3.90	1.09
		"O-3" 30+13.94	"O-3" 30+38.37	2.94	1.25
C-3	3	"O-2" 21+45.68	"O-2" 21+71.16	3.00	1.25
		"O-4" 46+88.16	"O-4" 47+14.73	4.27	1.34
C-4	4	"O-4" 43+12.50	"O-4" 43+29.41	2.33	1.24
		"O-4" 42+50.82	"O-4" 42+69.60	3.39	0.33
C-5	5	"O-4" 42+83.62	"O-4" 42+05.04	0.92	1.19
		"O-4" 42+52.54	"O-4" 42+64.71	2.48	0.49
C-6	6	"K-4" 33+41.17	"K-4" 33+60.85	3.22	0.49
		"K-1" 18+11.48	"K-1" 18+25.76	2.29	1.18
C-7	7	"K-2" 9+45.18	"K-2" 9+63.22	2.11	0.38
		"K-2" 9+58.58	"K-2" 9+79.73	3.26	1.19
C-8	8	"K-4" 30+21.75	"K-4" 30+43.96	4.20	0.89
		"K-4" 30+50.52	"K-4" 30+72.71	3.48	0.56
C-9	9	"K-4" 25+37.48	"K-4" 25+56.76	4.49	0.18
		"K-4" 25+17.57	"K-4" 25+43.96	1.19	2.40
C-10	10	"K-4" 23+16.86	"K-4" 23+46.67	0.88	1.08
		"K-4" 23+80.93	"K-4" 23+98.97	4.59	0.81
C-11	11	"K-6" 20+01.67	"K-6" 20+22.70	2.99	1.05
		"K-7" 20+73.98	"K-7" 20+92.62	2.59	1.12
SUBTOTAL				63.4	21.2
TOTAL				84.6	

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

SHEET No.	LOCATION	TEMPORARY DRAINAGE INLET PROTECTION
L-1	①	1
	③	2
L-2	⑦	1
	⑧	1
	⑩	1
TOTAL		6

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR
 SHAHRAM SHAHRIARI

CALCULATED/DESIGNED BY
 CHECKED BY

MINA ZOLFAGHARI
 VANESSA TRUONG

REVISED BY
 DATE REVISED

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

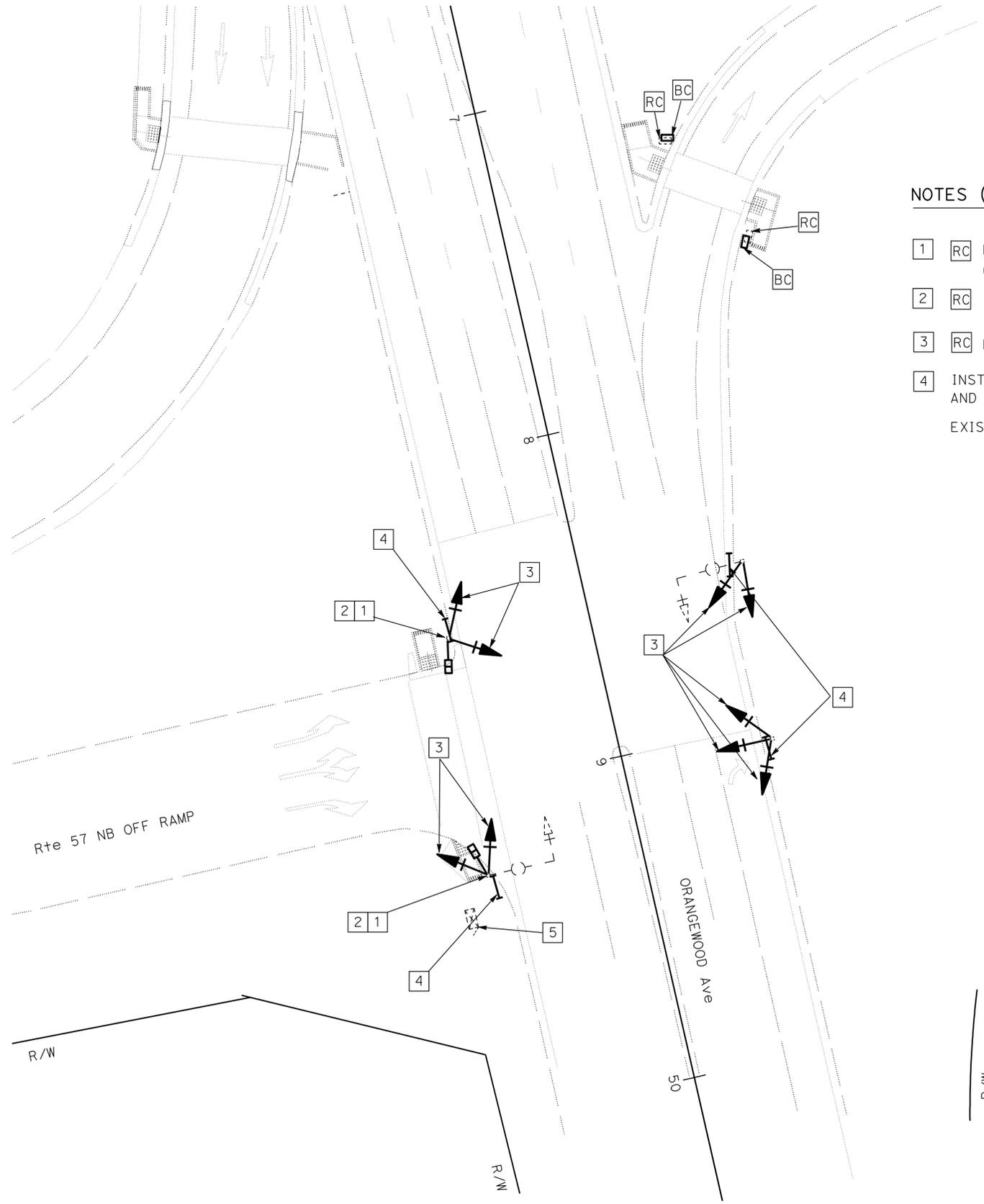
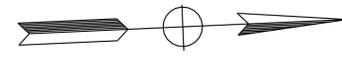
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	36	56

Mina Zolfaghari 01-06-12
 REGISTERED ELECTRICAL ENGINEER DATE

2-13-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MINA ZOLFAGHARI
 No. E 16816
 Exp. 12/31/12
 ELECTRICAL
 STATE OF CALIFORNIA

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



NOTES (THIS SHEET ONLY):

- 1 RC EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL NEW PEDESTRIAN COUNT DOWN SIGNAL.
- 2 RC EXISTING ppb. INSTALL NEW PPB AT NEW HEIGHT. REFER TO ES-7A.
- 3 RC EXISTING 3-8" VEHICLE SIGNAL FACE AND INSTALL 3-12" VEHICLE SIGNAL FACE.
- 4 INSTALL TYPE I PEDESTRIAN BARRICADES. MOUNT TWO SIGNS OF R9-3A AND R9-3B BACK TO BACK.
 EXISTING MODEL 170 CONTROLLER ASSEMBLY.

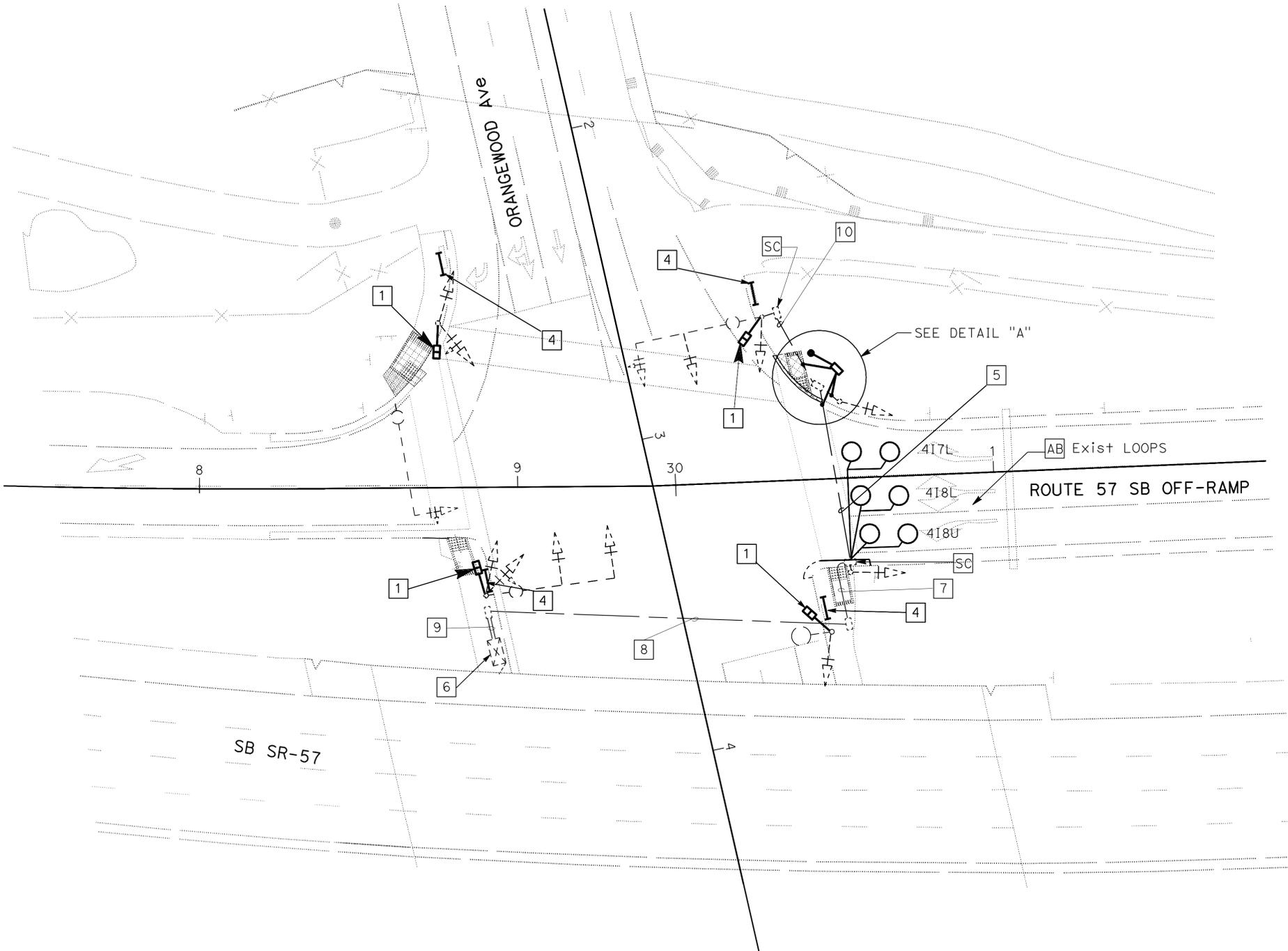
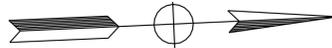
MODIFY SIGNAL

SCALE: 1" = 20'

E-1

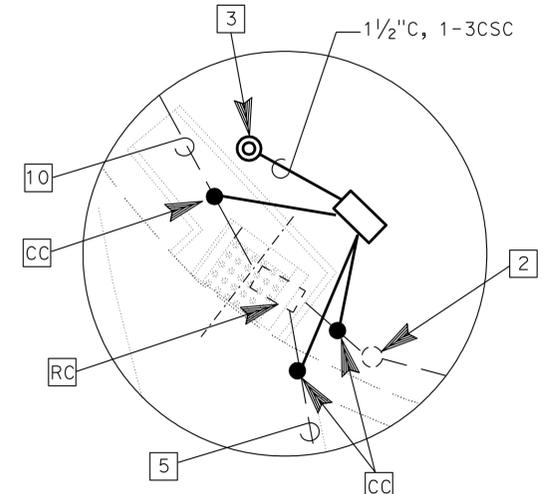
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Oran	57	11.8/13.4	37	56
		Mina Zolfaghari 01-06-12		REGISTERED ELECTRICAL ENGINEER DATE	
		2-13-12		PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

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



NOTES (THIS SHEET ONLY):

- 1 RC Exist PEDESTRIAN SIGNAL HEAD AND INSTALL NEW PEDESTRIAN COUNT DOWN SIGNAL.
- 2 RC Exist ppb.
- 3 PEDESTRIAN PUSH BUTTON POSTS SHALL BE INSTALLED WITHING 18" OF THE PEDESTRIAN PATHS AND MINIMUM OF 2' OF THE CURB.
- 4 INSTALL TYPE I PEDESTRIAN BARRICADES. MOUNT TWO SIGNS OF R9-3A AND R9-3B BACK TO BACK.
- 5 Exist 2 1/2"C, 2-12CSC, 1-3CSC, 2#6
RC 2-12CSC, 1-3CSC, 2#6. ADD 2-12CSC, 1-3CSC, 2#6.
- 6 Exist MODEL 170 CONTROLLER ASSEMBLY.
- 7 Exist 2 1/2"C, 3-12CSC, 2-3CSC, 2#6, 2#8, 3 dlc.
RC 2-12CSC, 1-3CSC, 2#6. ADD 2-12CSC, 1-3CSC, 2#6.
- 8 Exist 3"C, 5-12CSC, 2-3CSC, 2#6, 2#8, 8 dlc.
RC 2-12CSC, 1-3CSC, 2#6. ADD 2-12CSC, 1-3CSC, 2#6.
- 9 Exist 2-4"C, 9-12CSC, 4-3CSC, 2#4, 1 sic, 11 dlc, 3-4#18 magnetometer cable. RC 2-12CSC, 1-3CSC, 2#6. ADD 2-12CSC, 1-3CSC, 2#6.
- 10 Exist 2 1/2"C, 1-12CSC, 2#6.
RC 1-12CSC, 2#6. ADD 1-12CSC, 1-12CSC, 2#6.
- 11 RS ALL Exist TYPE I PEDESTRIAN BARRICADES.
- 12 ALL NEW LOOPS SHALL BE INSTALLED AFTER THE FINAL PAVEMENT AND BEFORE PAVEMENT DELINEATION AND SHALL BE CUT 1' BEFORE LIMIT LINE.



DETAIL "A"
NO SCALE
MODIFY SIGNAL
SCALE: 1" = 20'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN
 FUNCTIONAL SUPERVISOR: SHAHRAM SHAHRIARI
 CALCULATED/DESIGNED BY: [blank] CHECKED BY: [blank]
 MINA ZOLFAGHARI VANESSA TRUONG
 REVISED BY: [blank] DATE: [blank]

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR
 SHAHRAM SHAHRIARI

REVISOR
 MINA ZOLFAGHARI
 VANESSA TRUONG

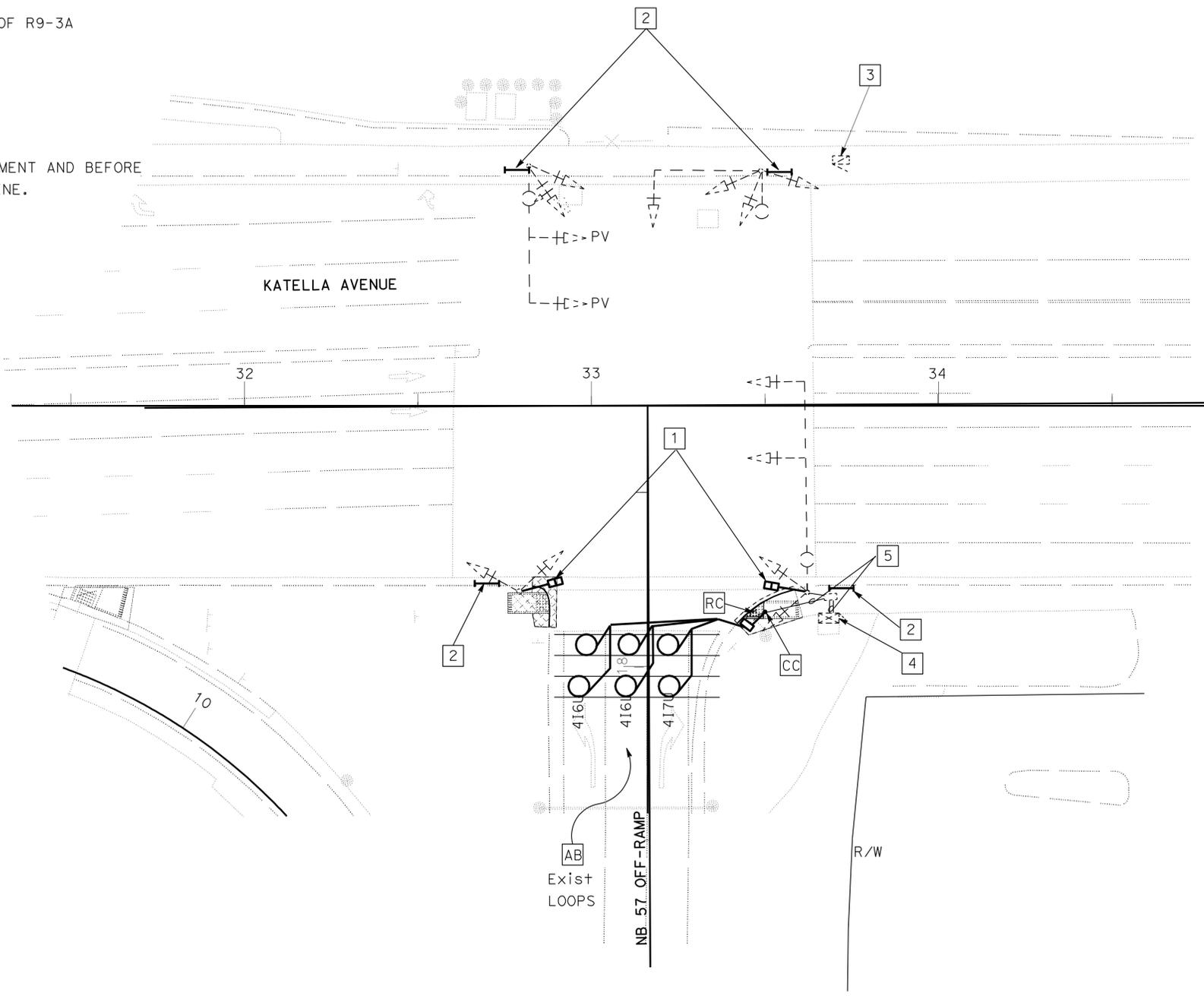
DESIGNED BY
 MINA ZOLFAGHARI

CHECKED BY
 VANESSA TRUONG

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

NOTES (THIS SHEET ONLY):

- 1 RC EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL NEW PEDESTRIAN COUNT DOWN SIGNAL.
- 2 INSTALL TYPE I PEDESTRIAN BARRICADES. MOUNT TWO SIGNS OF R9-3A AND R9-3B BACK TO BACK.
- 3 EXISTING TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
- 4 EXISTING MODEL 170 CONTROLLER ASSEMBLY.
- 5 RC 3 dlc. INSTALL 3 DLC.
6. ALL NEW LOOPS SHALL BE INSTALLED AFTER THE FINAL PAVEMENT AND BEFORE PAVEMENT DELINATION AND SHALL BE CUT 1' BEFORE LIMIT LINE.



MODIFY SIGNAL

SCALE: 1" = 20'

APPROVED FOR ELECTRICAL WORK ONLY

E-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	38	56
Mina Zolfaghari			01-06-12		
REGISTERED ELECTRICAL ENGINEER			DATE		
2-13-12			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

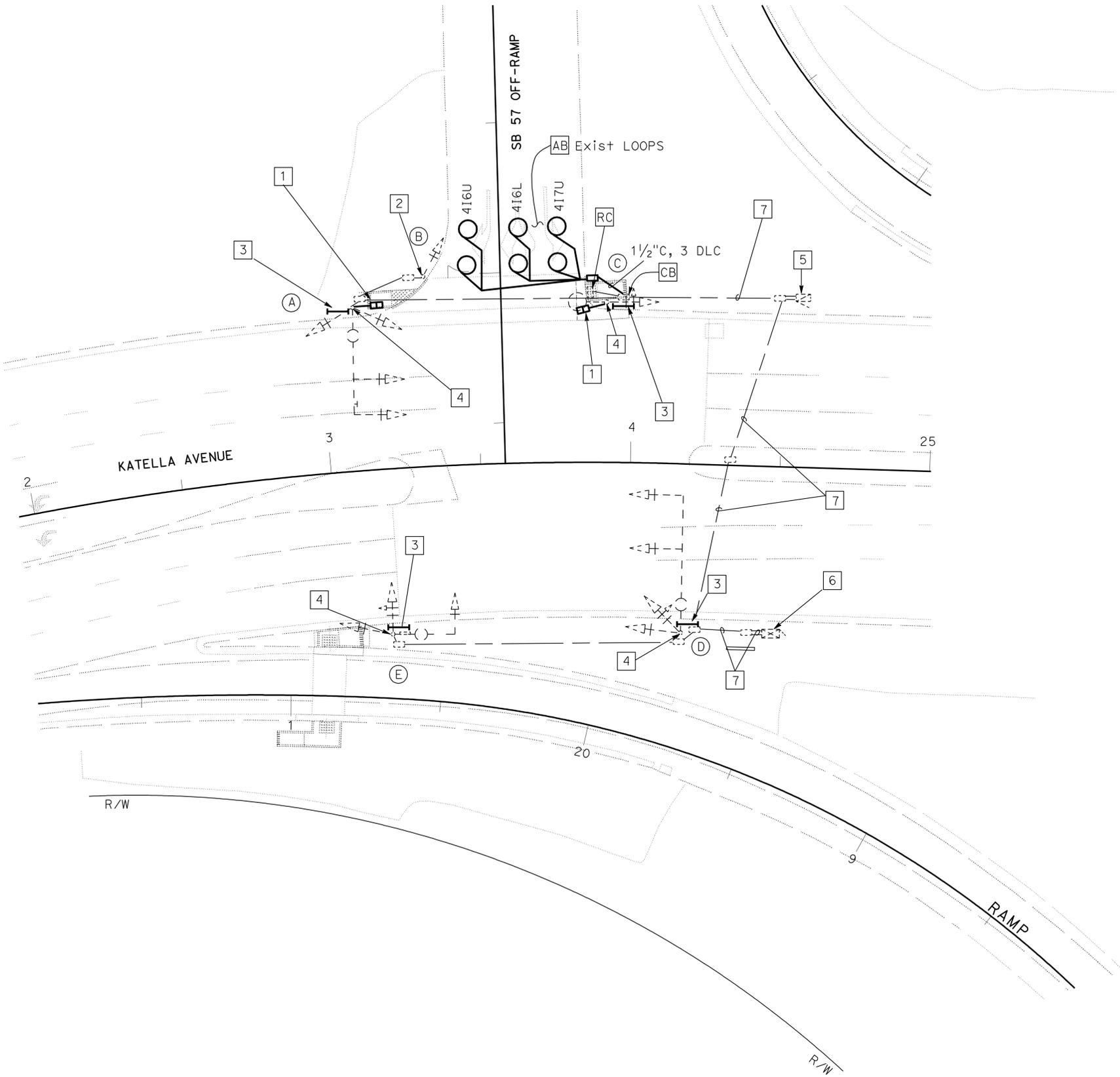
FUNCTIONAL SUPERVISOR
 SHAHRAM SHAHRIARI

CALCULATED/DESIGNED BY
 CHECKED BY

MINA ZOLFAGHARI
 VANESSA TRUONG

REVISED BY
 DATE REVISED

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



NOTES (THIS SHEET ONLY):

- 1 [RC] EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL NEW PEDESTRIAN COUNT DOWN SIGNAL.
- 2 [RC] EXISTING ppb. INSTALL NEW PPB AT NEW HEIGHT. REFER TO ES-7A.
- 3 INSTALL TYPE I PEDESTRIAN BARRICADES. MOUNT TWO SIGNS OF R9-3A AND R9-3B BACK TO BACK.
- 4 [RC] EXISTING SIGNS R96 AND R96B.
- 5 EXISTING 120/240 V, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE.
- 6 EXISTING MODEL 170 CONTROLLER ASSEMBLY.
- 7 [RC] 3 dlc. INSTALL 3 DLC.
8. ALL NEW LOOPS SHALL BE INSTALLED AFTER THE FINAL PAVEMENT AND BEFORE PAVEMENT DELINATION AND SHALL BE CUT 1' BEFORE LIMIT LINE.

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL	PPB		HPS	IISNS
	Type	SMA	LMA	Mast Arm	Pole	MTG	Ø	ARROW	LUM	
(A)	24-3-129	35	12	2-MAS	SV-1-T SV-1-T	SP-1-T	-	-	200 W	-
(B)	1-A	-	-	-	TV-1-T	-	6	→	-	-
(C)	15	-	8	-	SV-1-T	SP-1-T	6	←*	200 W	-
(D)	26-3-129	45	12	2-MAS	SV-2-T	-	-	-	200 W	-
(E)	19-3-129	20	12	MAS	SV-2-T	-	-	-	200 W	Katella Ave

* = [RC] EXISTING ARROW SIGN AND INSTALL NEW

MODIFY SIGNAL
 SCALE: 1" = 20'

E-4

APPROVED FOR ELECTRICAL WORK ONLY

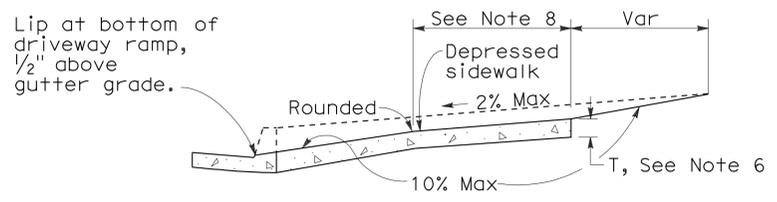
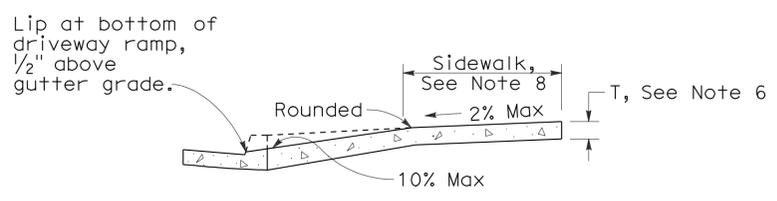
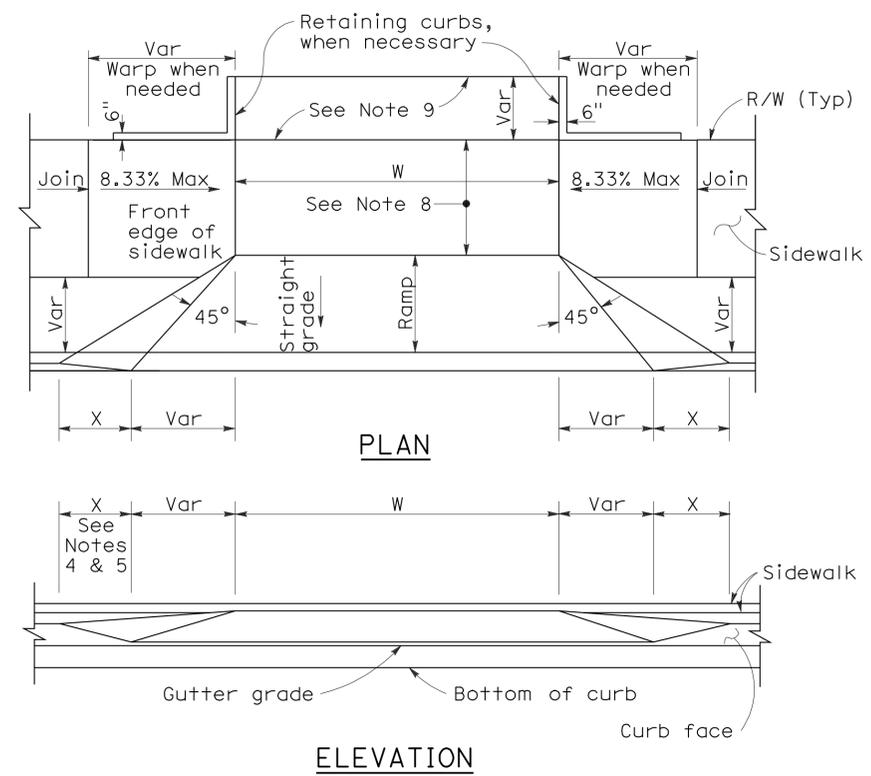
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	39	56

Mina Zolfaghari 01-06-2012
 REGISTERED ELECTRICAL ENGINEER DATE

2-13-12
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
 MINA ZOLFAGHARI
 No. E 16816
 Exp. 12/31/12
 ELECTRICAL
 STATE OF CALIFORNIA



CASE A

Typical driveway, sidewalk not depressed

CASE B

Driveway with depressed sidewalk

SECTIONS

CURB QUANTITIES

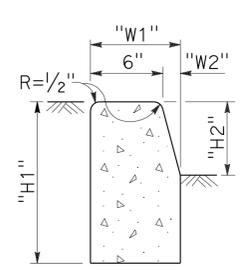
TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661

TABLE A

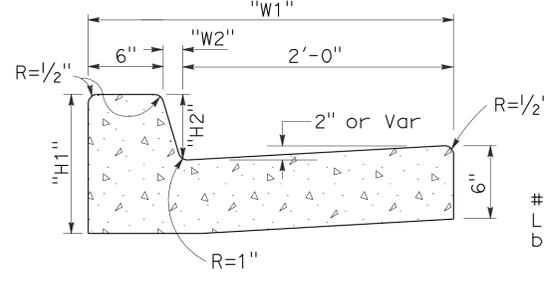
CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7 1/2"	1 1/2"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7 1/2"	1 1/2"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7 1/4"	1 1/4"
A3-8	8"	7"	7 3/4"	1 3/4"
B1-4	1'-0"	4"	7 1/2"	2 1/2"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7 1/2"	2 1/2"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8 1/2"	3 1/2"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-8"

To accompany plans dated 2-13-12

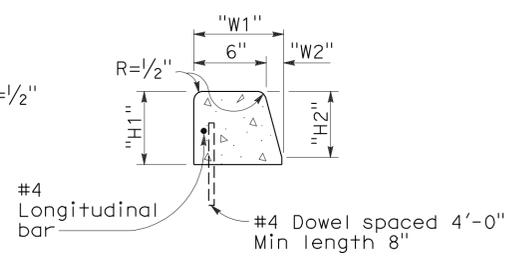
DRIVEWAYS



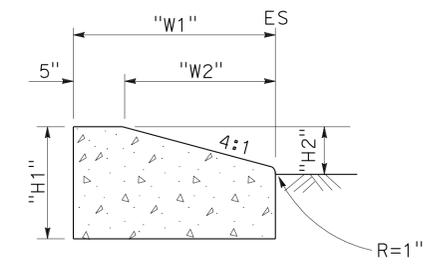
TYPE A1 CURBS
See Table A



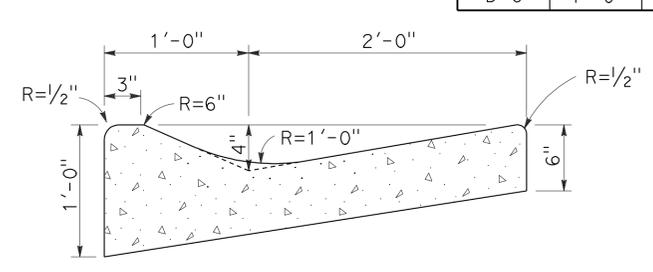
TYPE A2 CURBS
See Table A



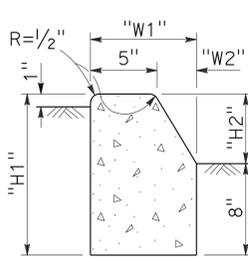
TYPE A3 CURBS
Superimposed on existing pavement
See Table A



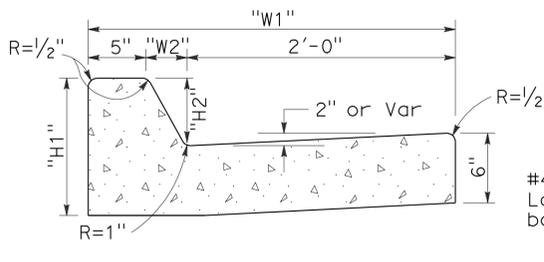
TYPE D CURBS
See Table A



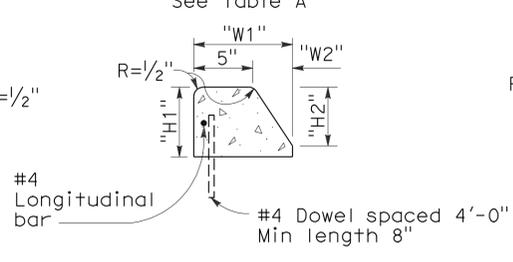
TYPE E CURB



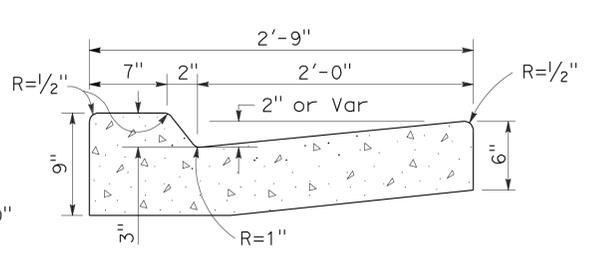
TYPE B1 CURBS
See Table A



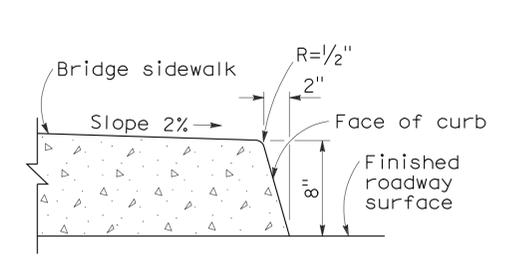
TYPE B2 CURBS
See Table A



TYPE B3 CURBS
Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB
On Bridges

NOTES:

- Case A driveway section typically applies.
- Use Case B driveway section when ramp slopes would exceed 10% in Case A.
- Use Case B driveway section when sidewalk cross slope would exceed 2% in Case A.
- X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
- X is a variable when sidewalk is located where wheelchairs may traverse the surface. Slopes shall not exceed 8.33%.
- Sidewalk and ramp thickness "T" at driveway shall be 4" for residential and 6" for commercial.
- Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
- Minimum width of clear passageway for sidewalk shall be 4'-0".
- Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
- Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

CURBS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

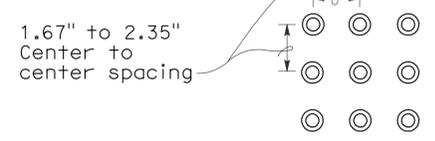
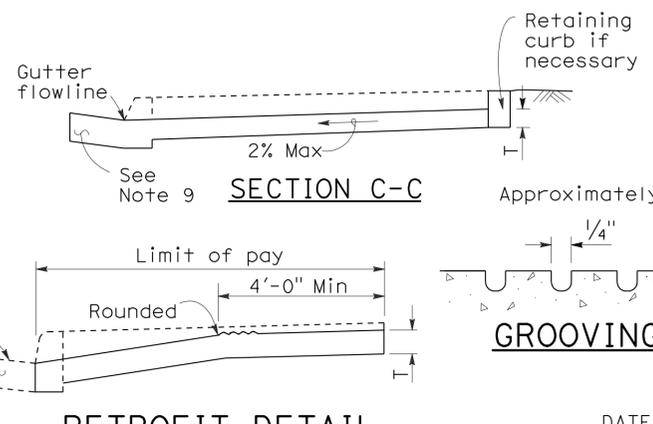
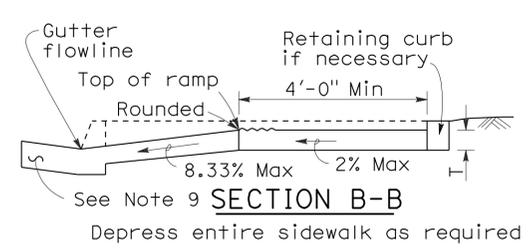
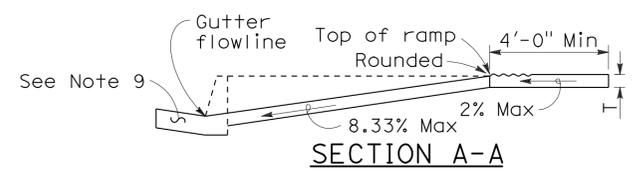
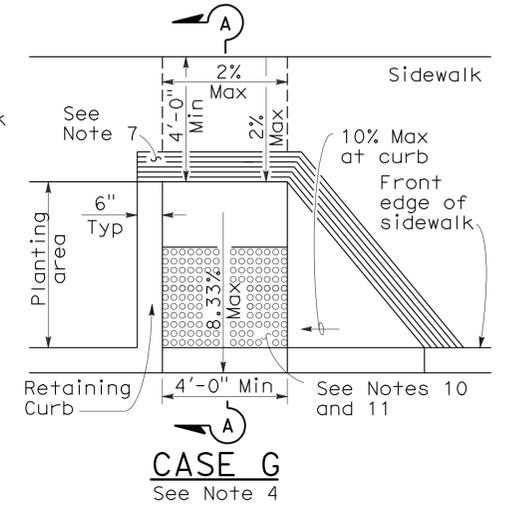
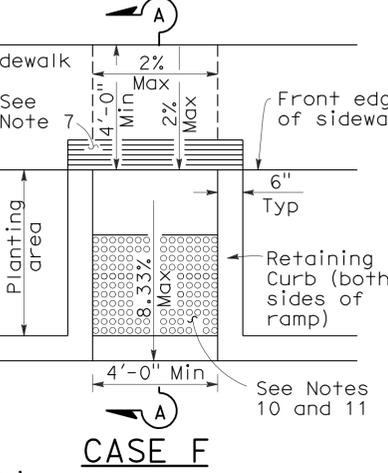
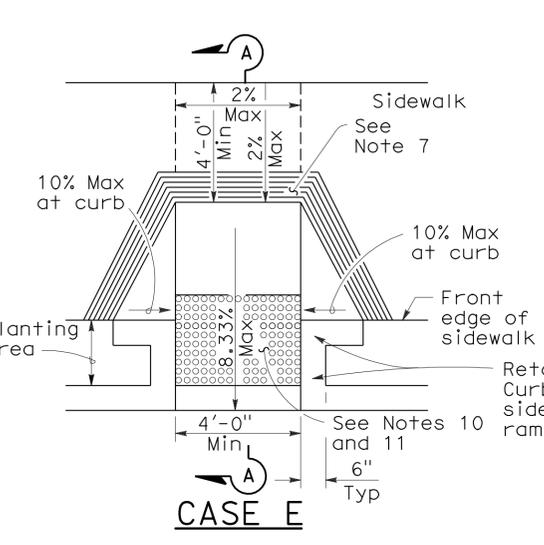
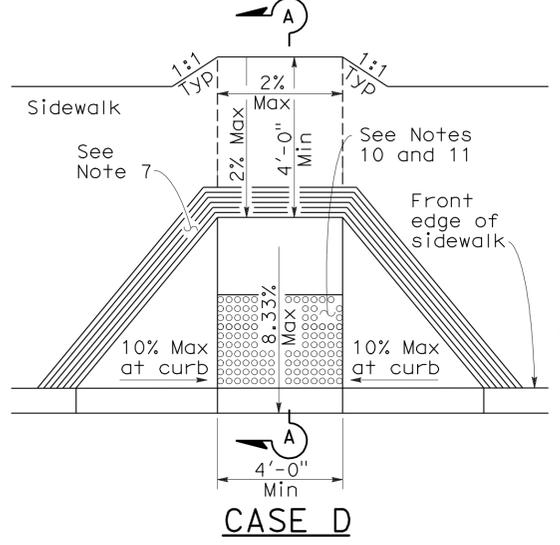
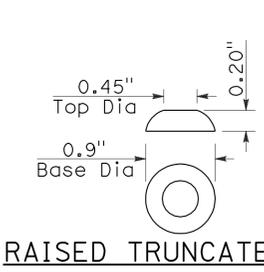
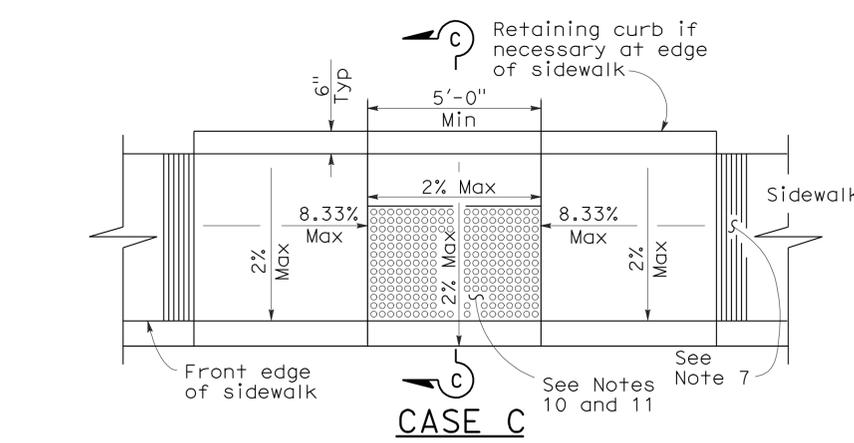
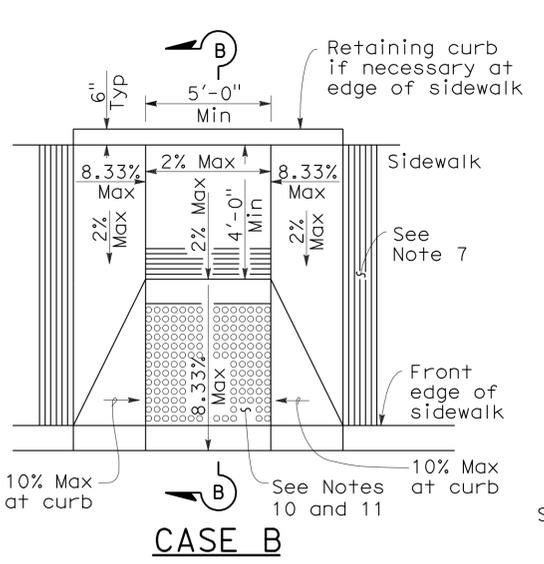
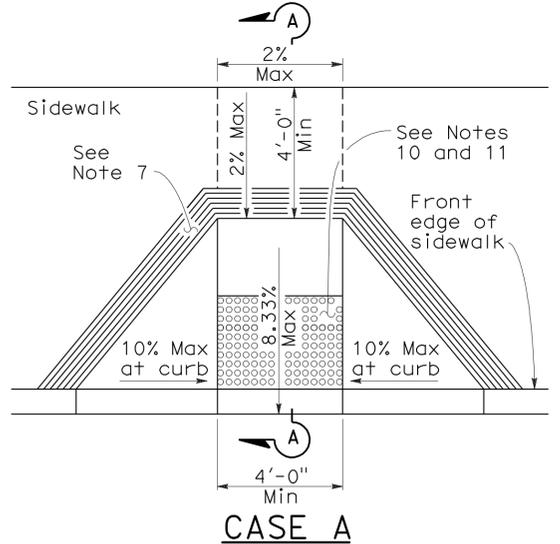
RSP A87A DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN A87A
DATED MAY 1, 2006 - PAGE 113 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A87A

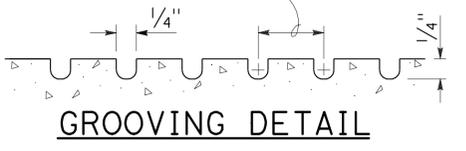
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	41	56

H. David Cordova
 REGISTERED CIVIL ENGINEER
 September 1, 2006
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

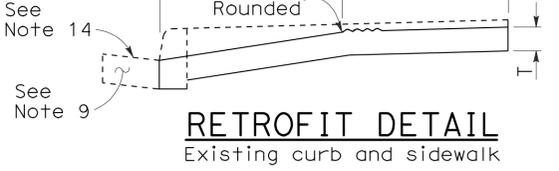
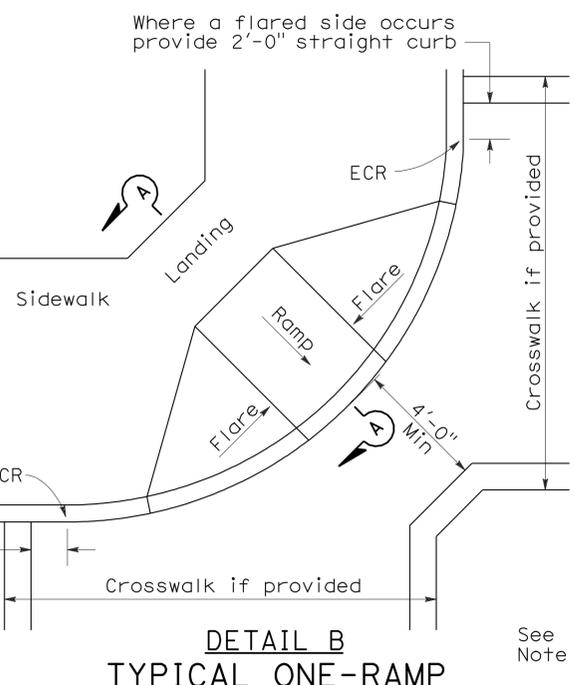
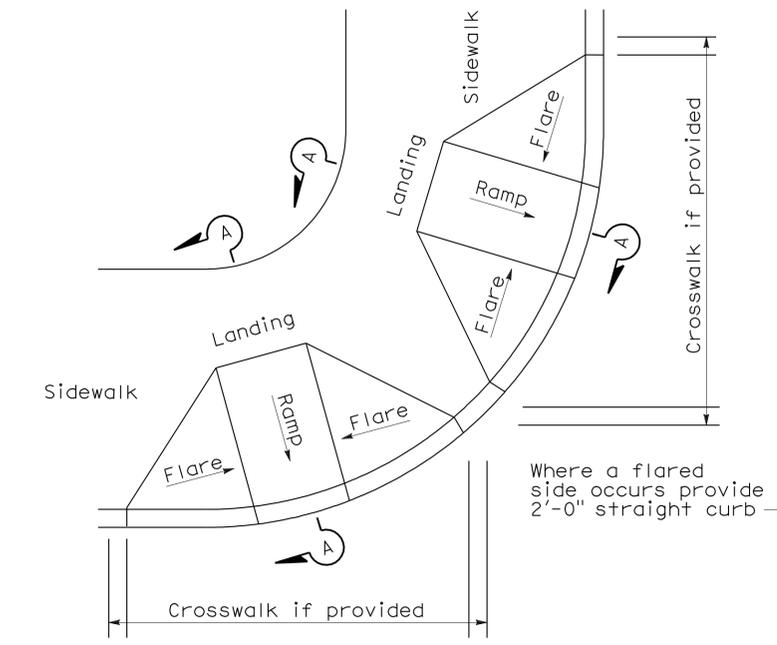
REGISTERED PROFESSIONAL ENGINEER
Hector David Cordova
No. C41957
Exp. 3-31-08
CIVIL
STATE OF CALIFORNIA



DETECTABLE WARNING SURFACE



CURB RAMP DETAILS
NO SCALE



NOTES:

- As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
- If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-0" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
- When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
- As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
- If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-0".
- Side slope of ramp flares vary uniformly from a maximum of 10% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
- The curb ramp shall be outlined, as shown, with a 1'-0" wide border with 1/4" grooves approximately 3/4" on center. See grooving detail.
- Transitions from ramps and landing to walks, gutters or streets shall be flush and free of abrupt changes.
- Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp or accessible route shall not exceed 5 percent within 4'-0" of the top and bottom of the curb ramp.
- Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. Detectable Warning Surfaces shall conform to the details on this plan and the requirements in the Special Provisions.
- The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
- Sidewalk and ramp thickness, "T", shall be 3/2" minimum.
- Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
- For retrofit conditions, removal and replacement of curb apron will be at the Contractor's option, unless otherwise shown on project plans.

TYPICAL TWO-RAMP CORNER INSTALLATION
See Note 1

TYPICAL ONE-RAMP CORNER INSTALLATION
See Notes 1 and 3

RETROFIT DETAIL
Existing curb and sidewalk

REVISED STANDARD PLAN RSP A88A

RSP A88A DATED SEPTEMBER 1, 2006 SUPERSEDES STANDARD PLAN A88A DATED MAY 1, 2006 - PAGE 115 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A88A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	42	56

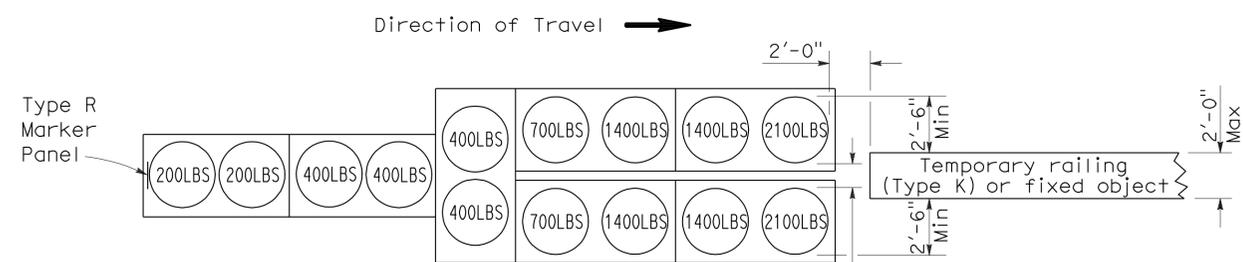
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

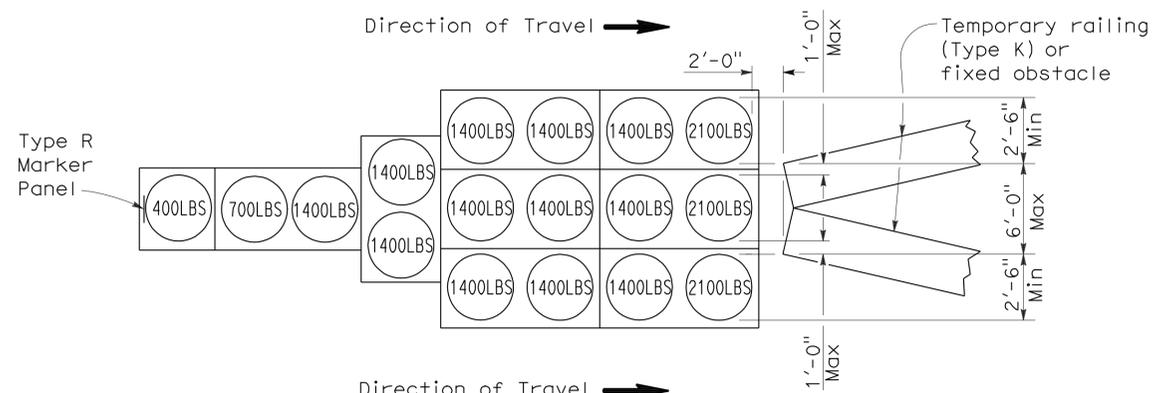
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-13-12



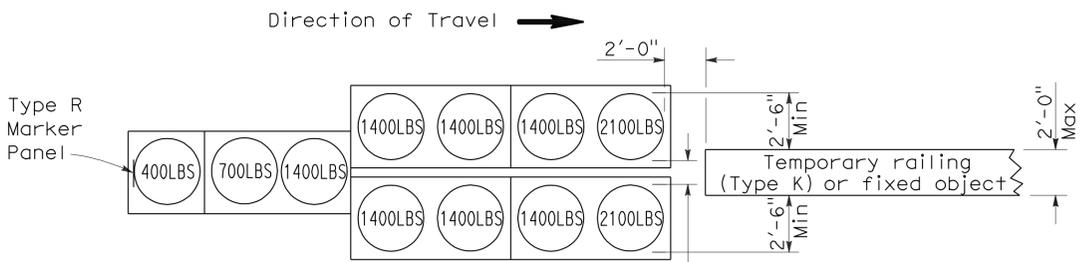
ARRAY 'TU14'

Approach speed 45 mph or more



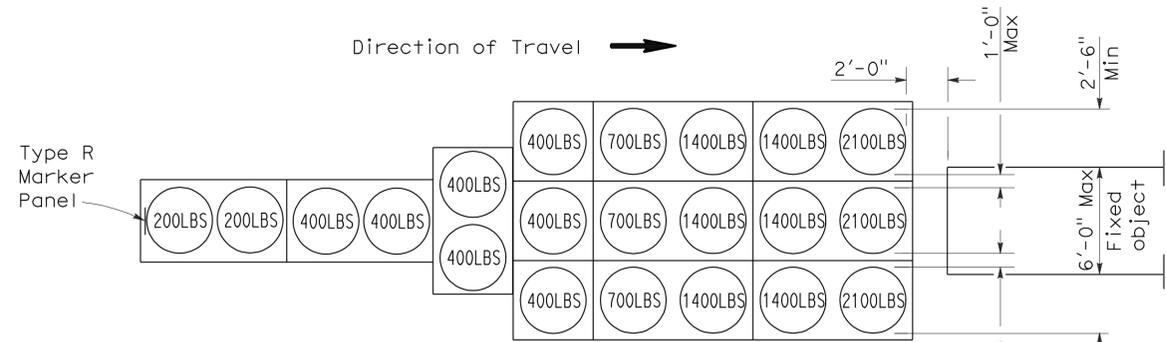
ARRAY 'TU17'

Approach speed less than 45 mph



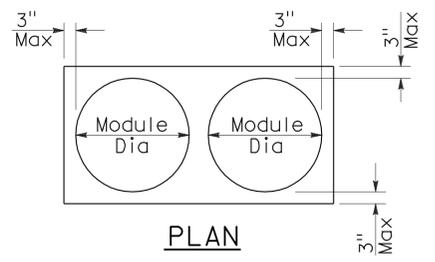
ARRAY 'TU11'

Approach speed less than 45 mph

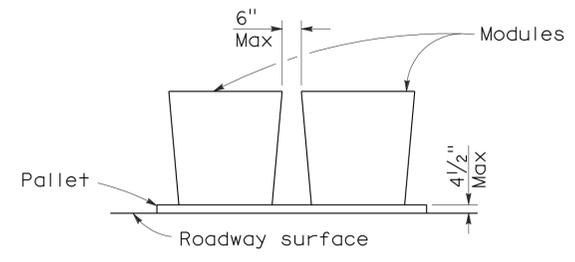


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

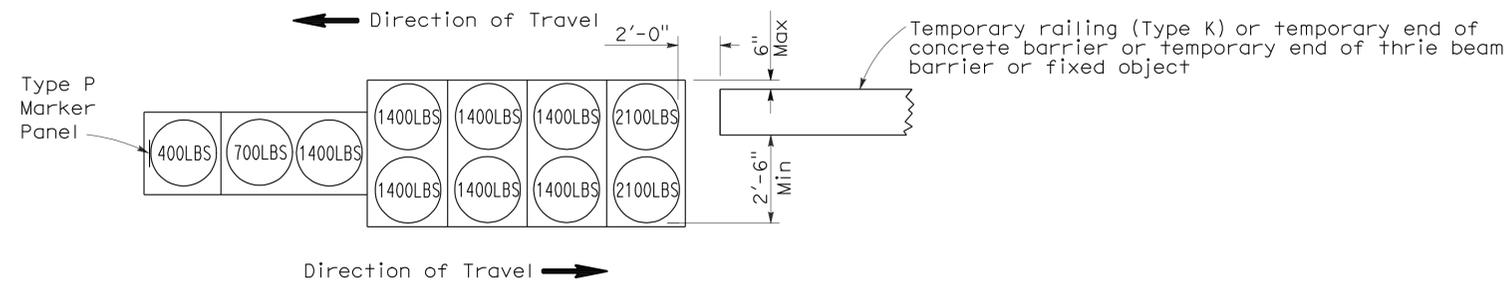
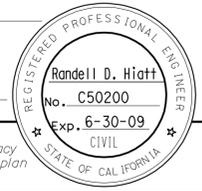
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	43	56

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

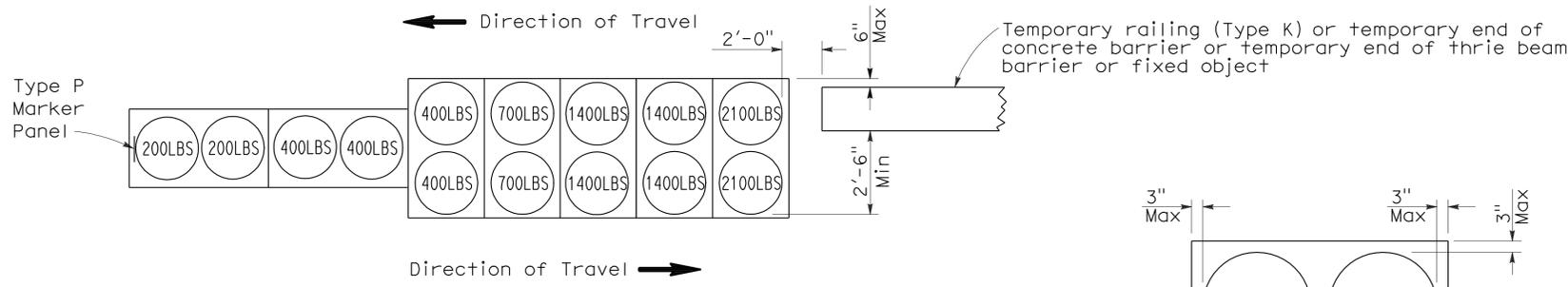
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-13-12



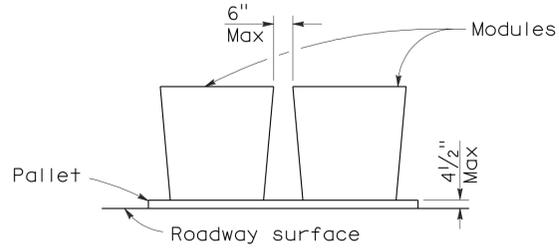
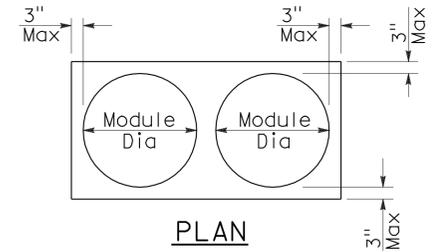
ARRAY 'TB11'

Approach speed less than 45 mph



ARRAY 'TB14'

Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

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

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

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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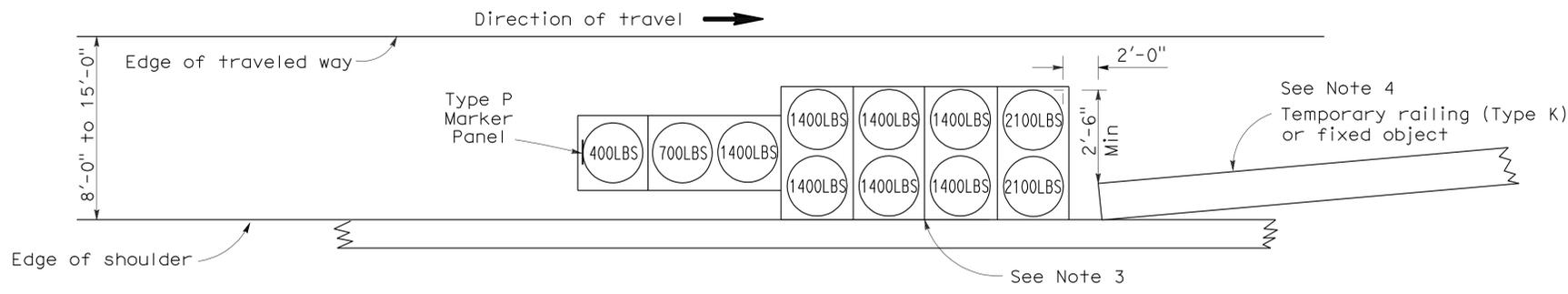
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

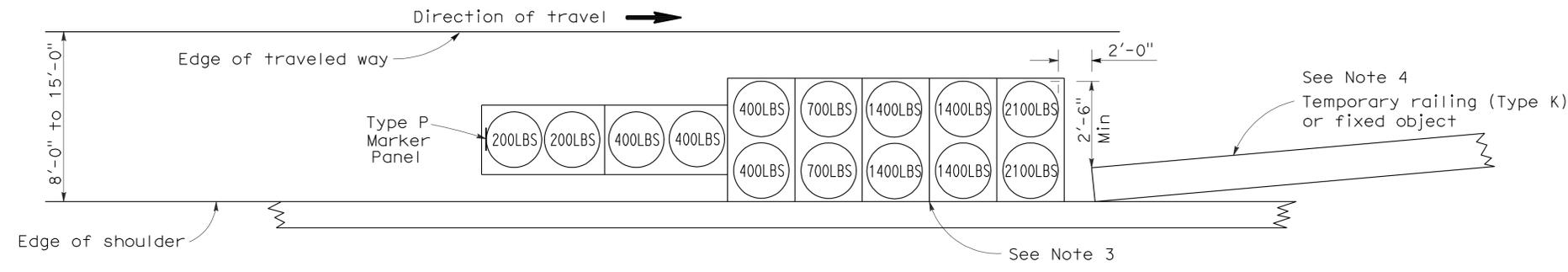
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 2-13-12



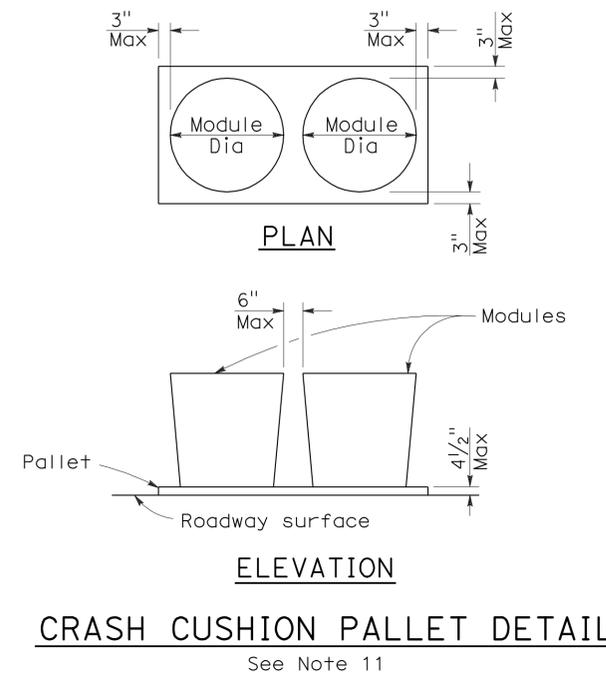
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

NOTES:

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



CRASH CUSHION PALLET DETAIL
See Note 11

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

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

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

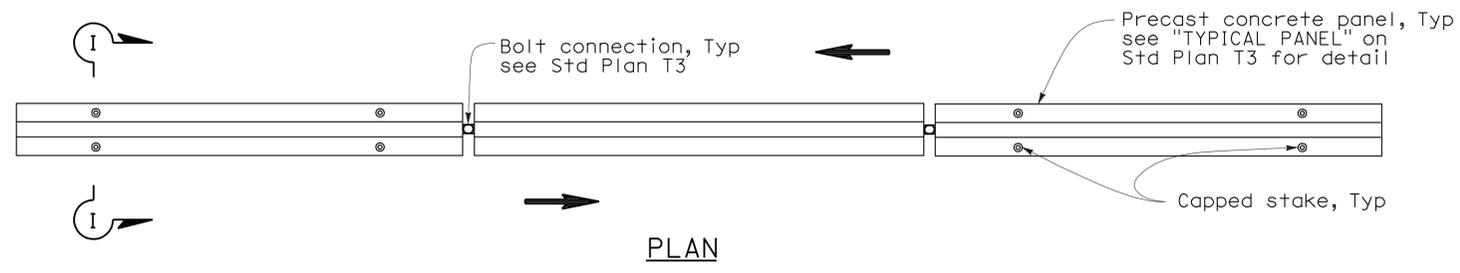
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	57	11.8/13.4	45	56

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

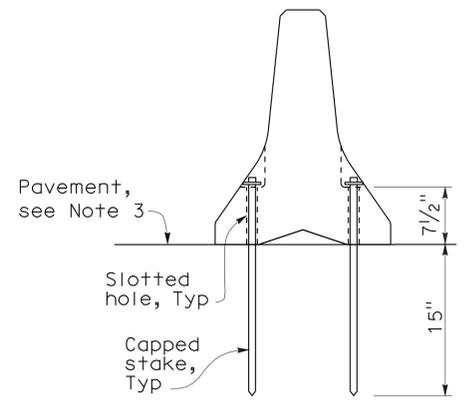
May 20, 2011
PLANS APPROVAL DATE

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To accompany plans dated 2-13-12

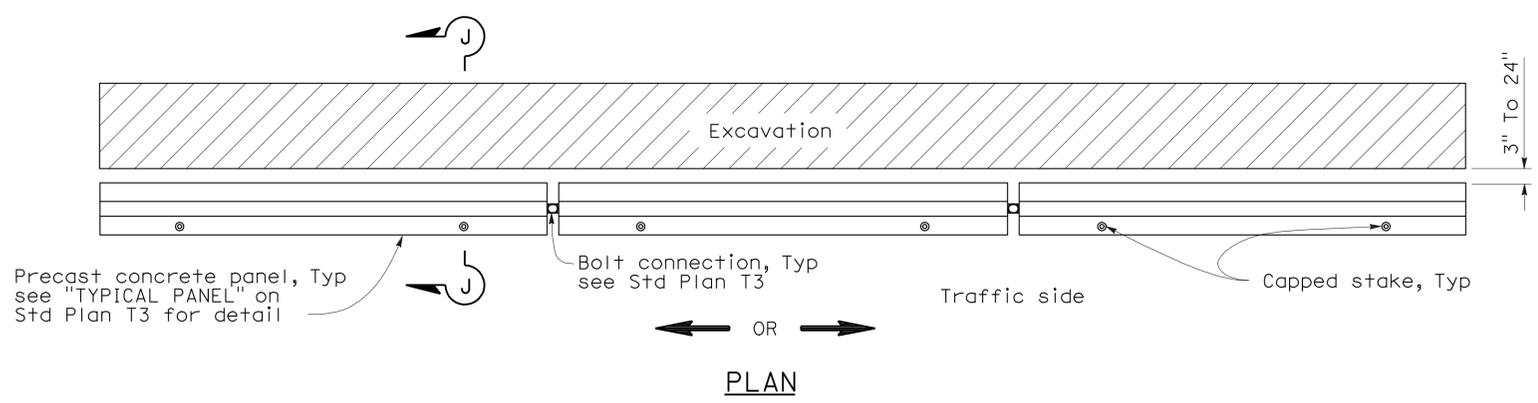


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

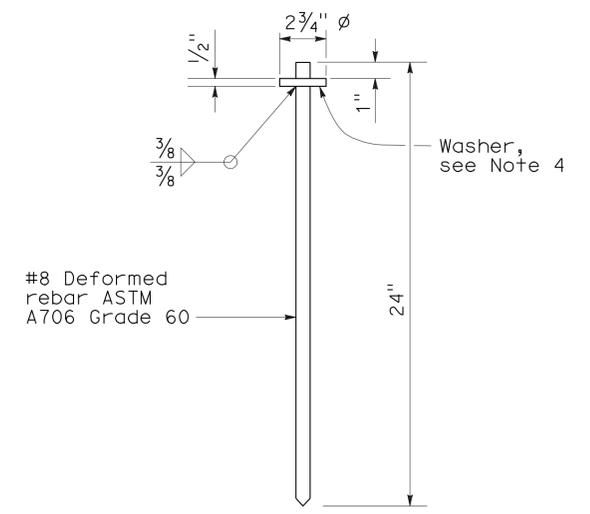
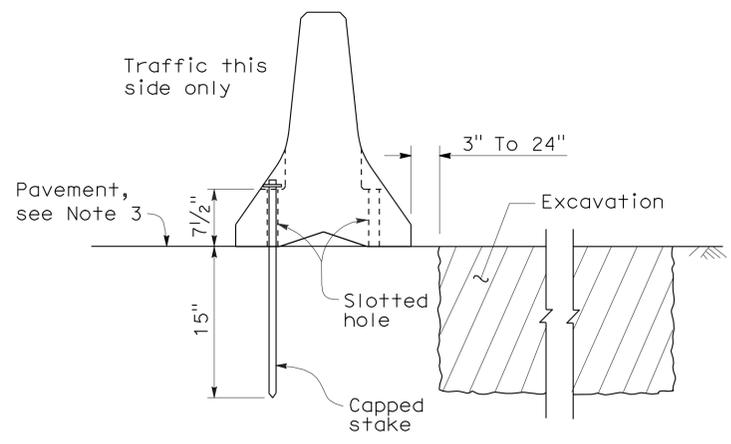


NOTES:

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



RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION
See Note 2



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY RAILING
(TYPE K)**

NO SCALE

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

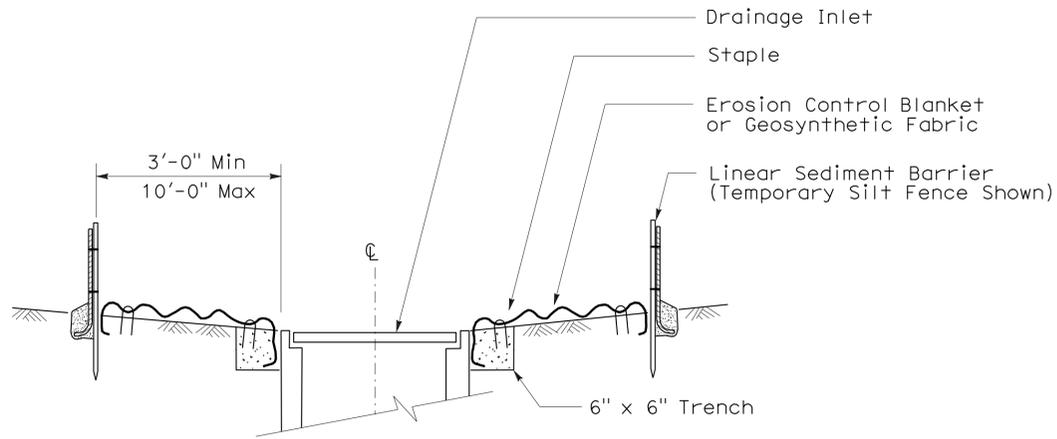
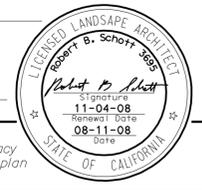
2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	46	56

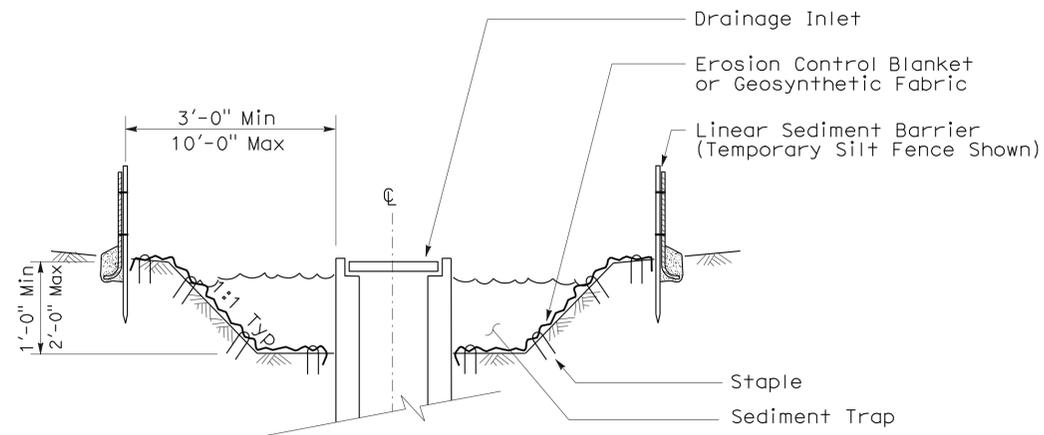
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS Approval DATE

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To accompany plans dated 2-13-12



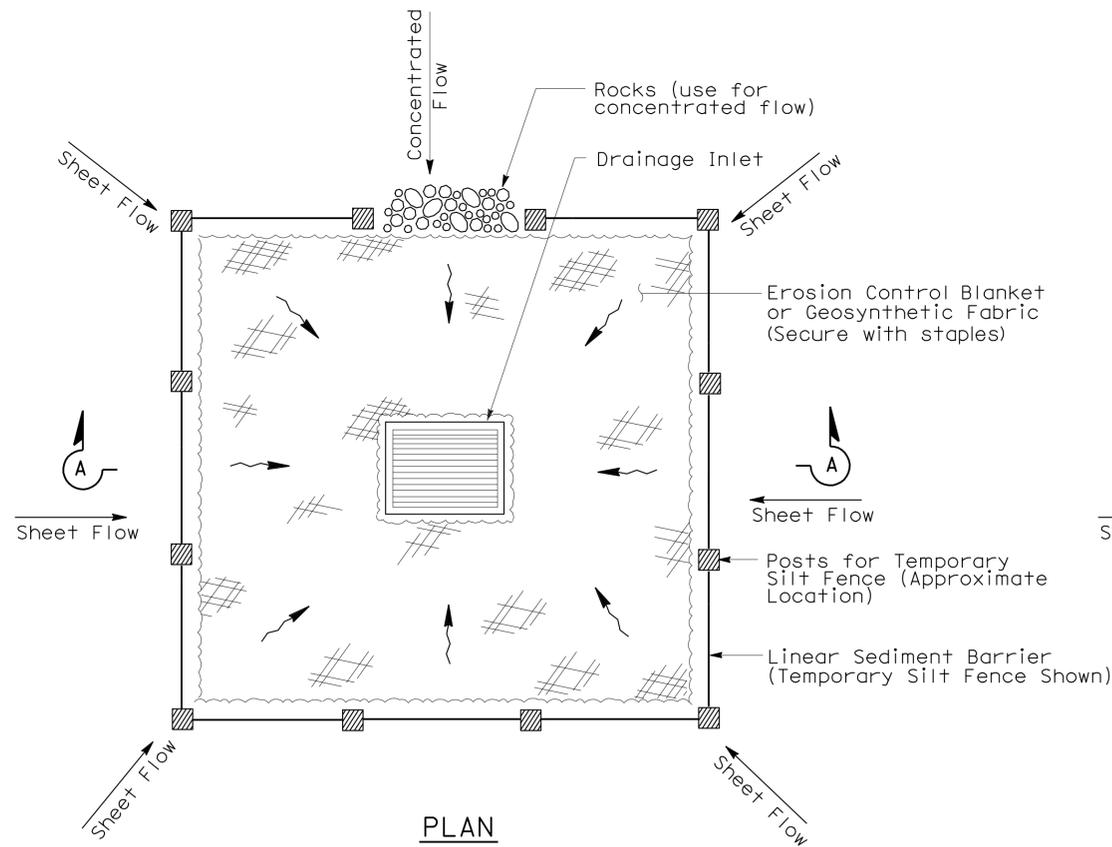
SECTION A-A



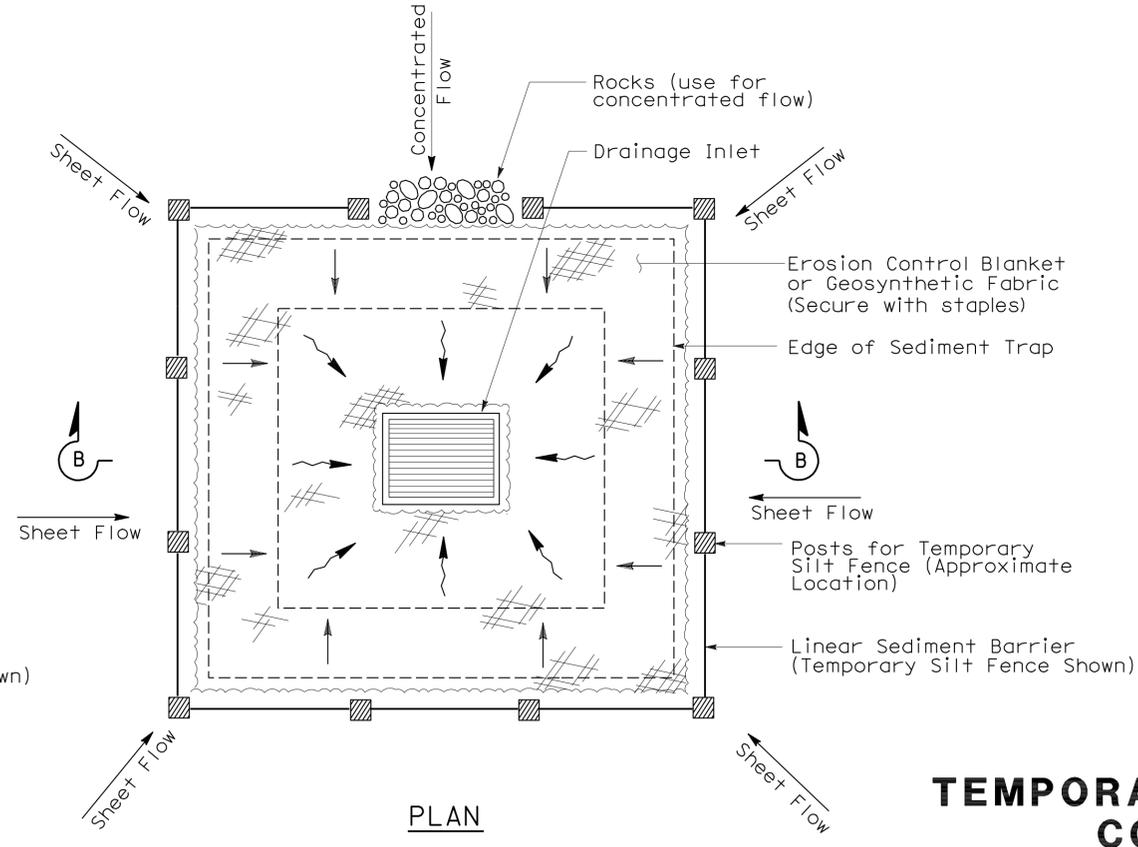
SECTION B-B

NOTES:

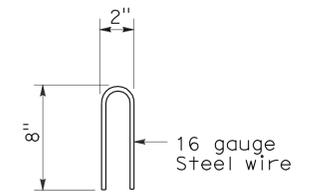
1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)

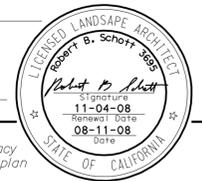


STAPLE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T61 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

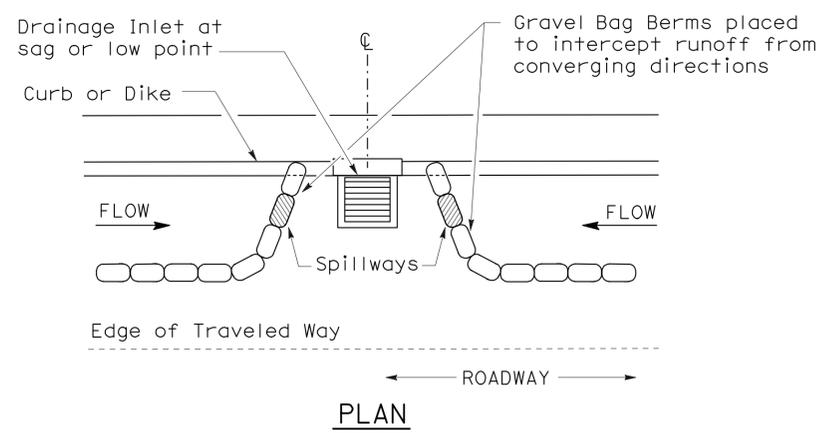


To accompany plans dated 2-13-12

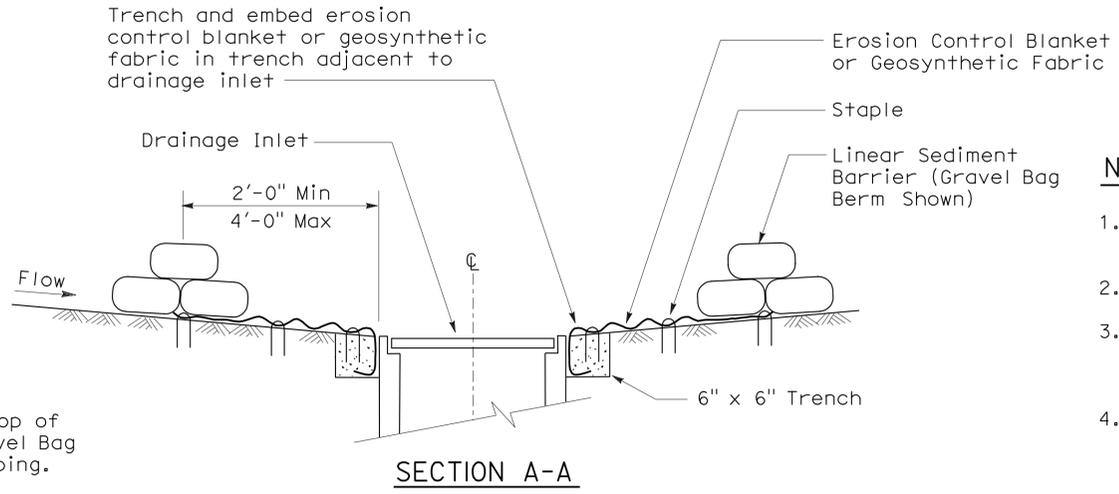
GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent



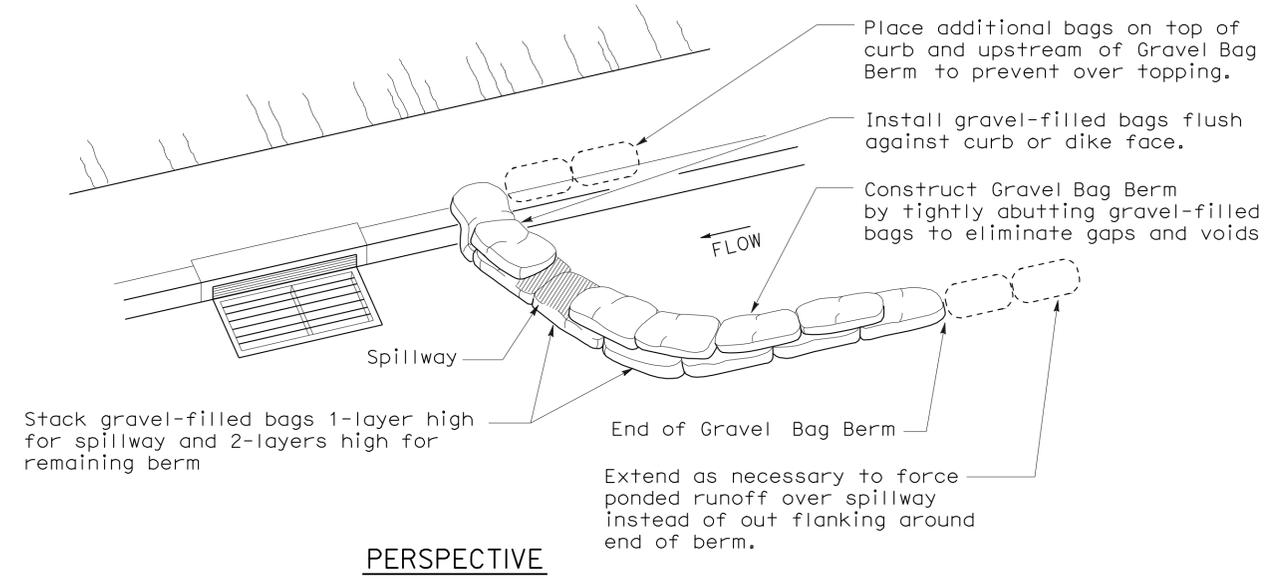
PLAN
CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)



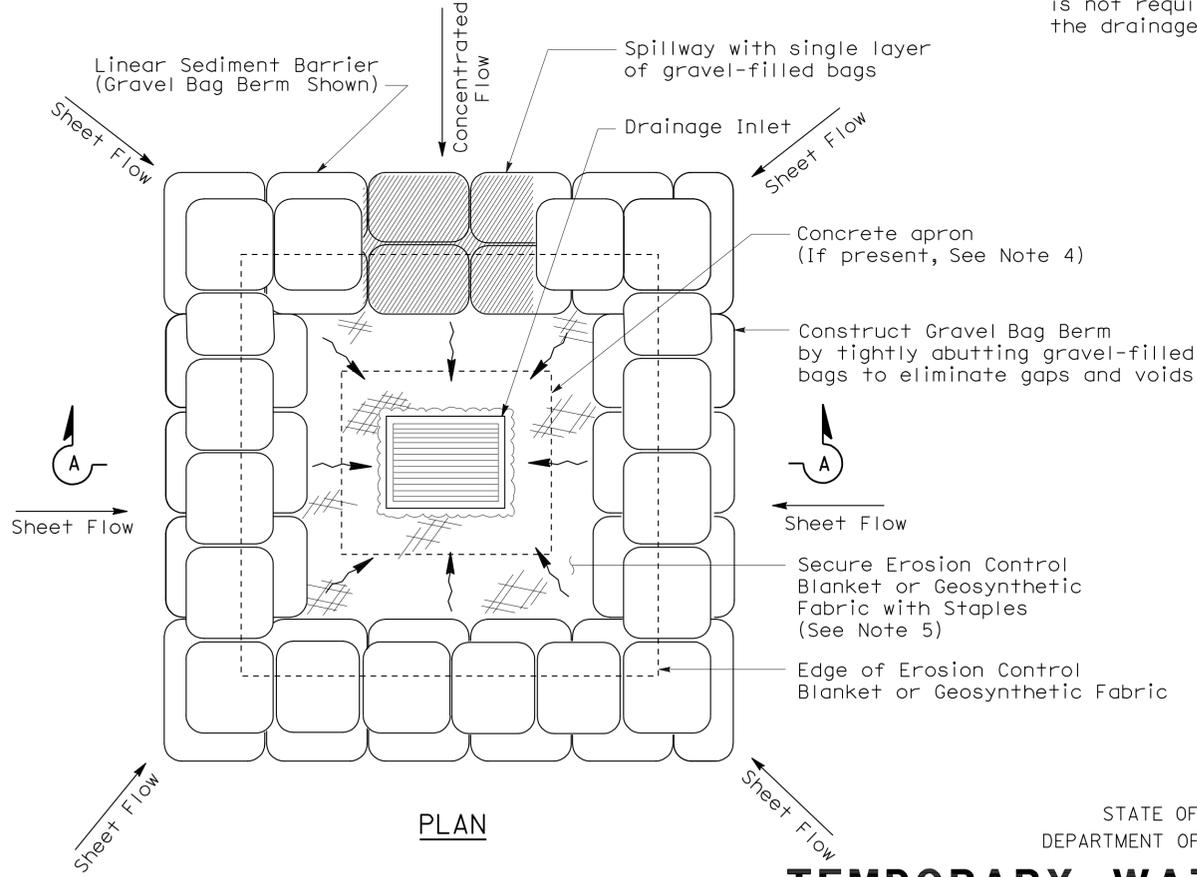
SECTION A-A

NOTES:

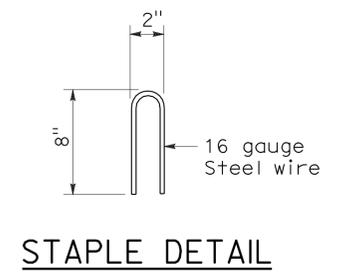
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



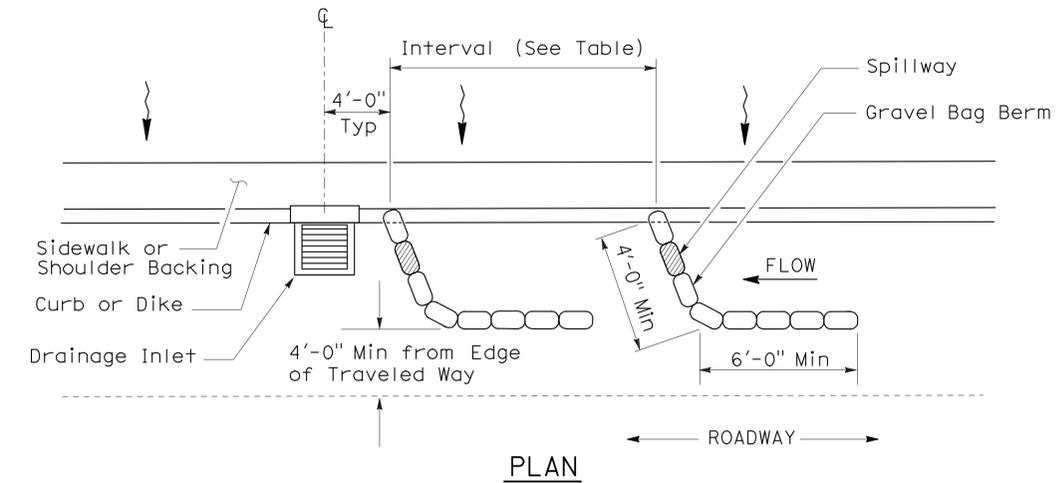
PERSPECTIVE



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE
 NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

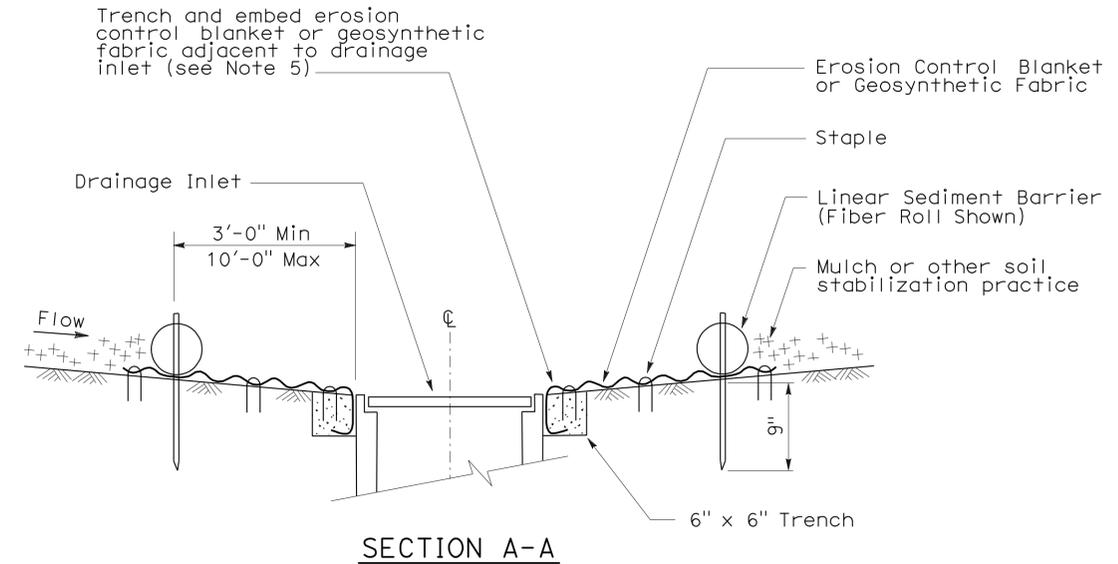
2006 NEW STANDARD PLAN NSP T62

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	48	56

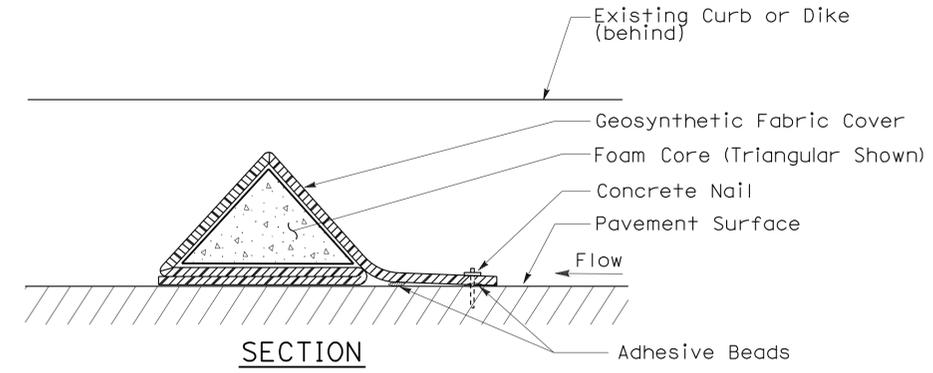
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50'	35'	30'	25'	20'
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6'	6'	6'	6'	6'



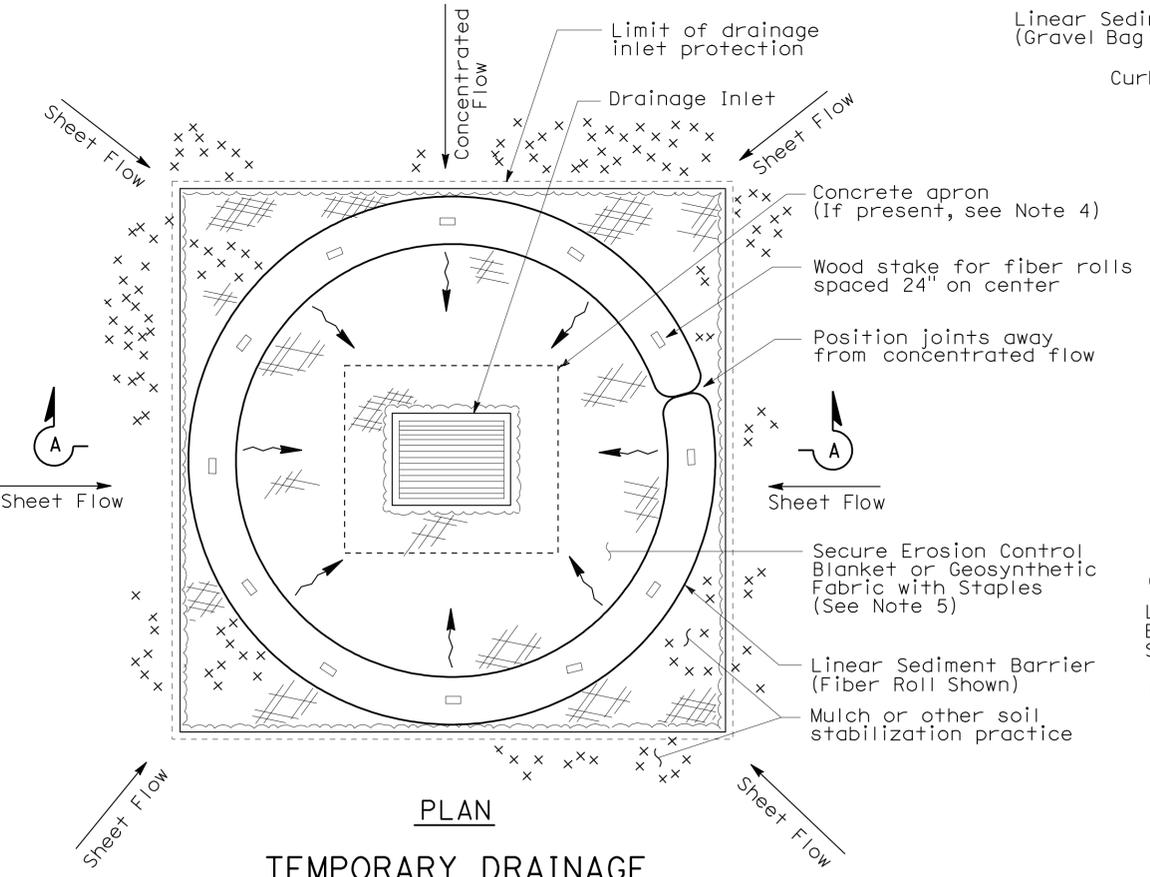
SECTION A-A



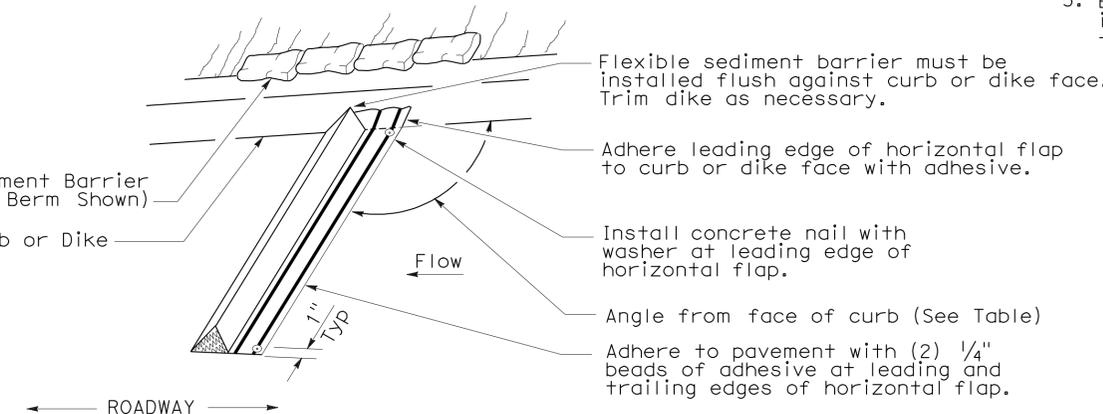
FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)

NOTES:

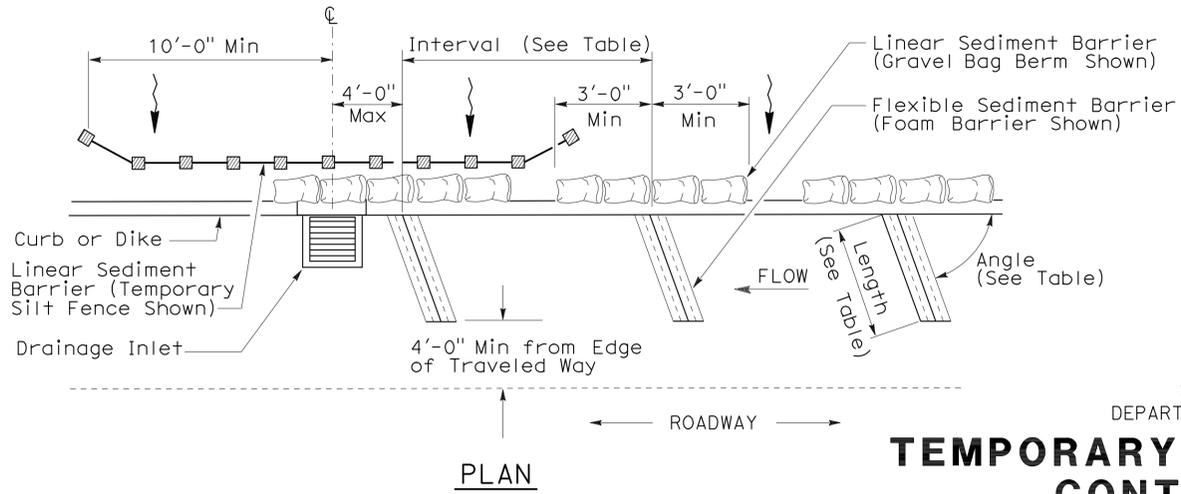
1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.



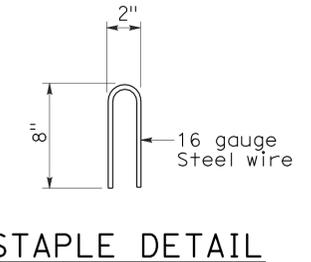
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)



PERSPECTIVE



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4B) FLEXIBLE SEDIMENT BARRIER



STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE
 NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T63

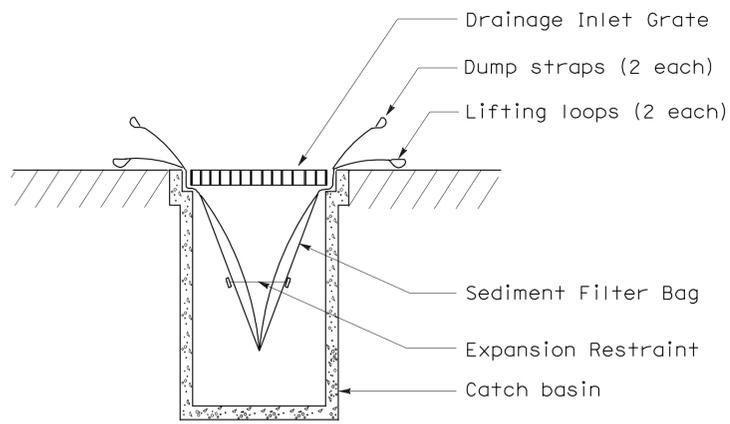
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	49	56

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT

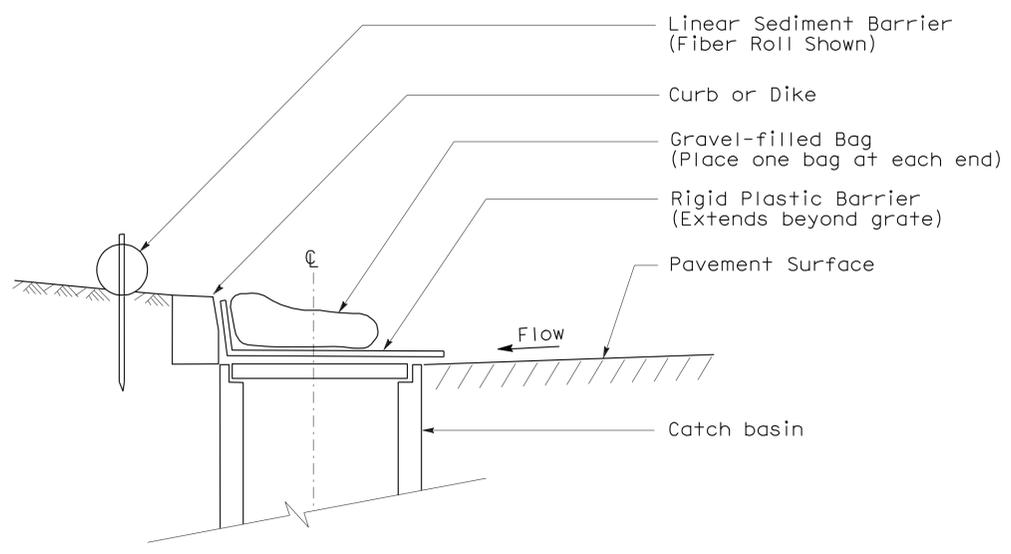
August 15, 2008
 PLANS APPROVAL DATE

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 Signature Date: 11-04-08
 Renewal Date: 08-11-08
 Date

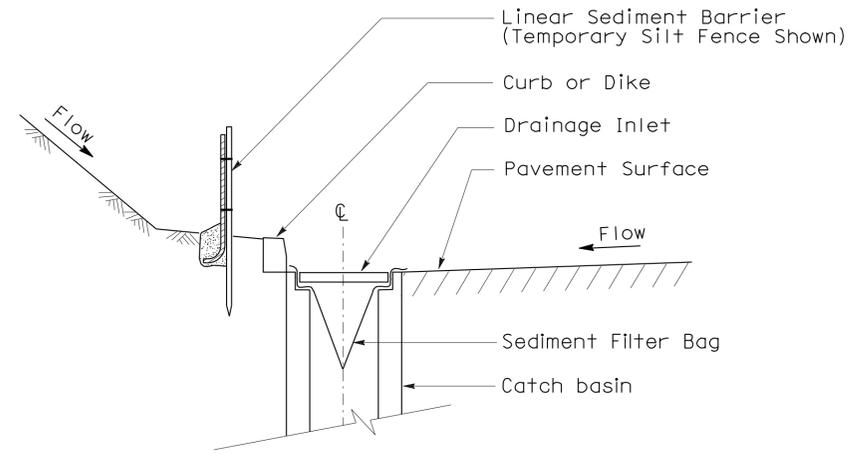
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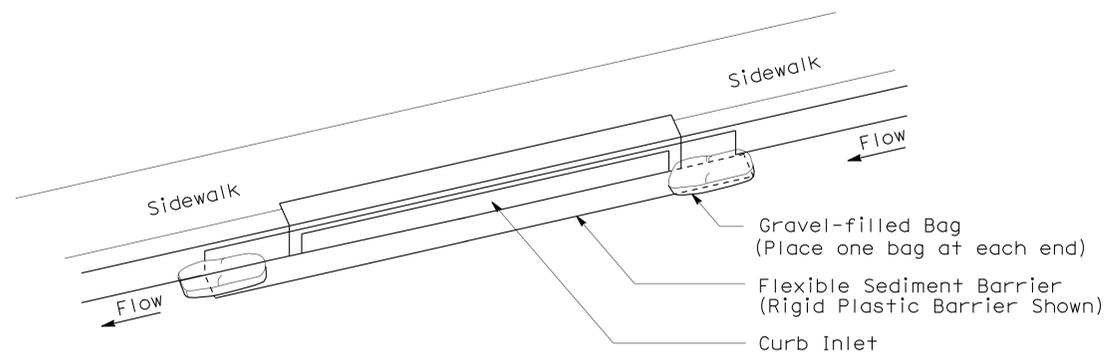
SECTION B-B
SEDIMENT FILTER BAG DETAIL



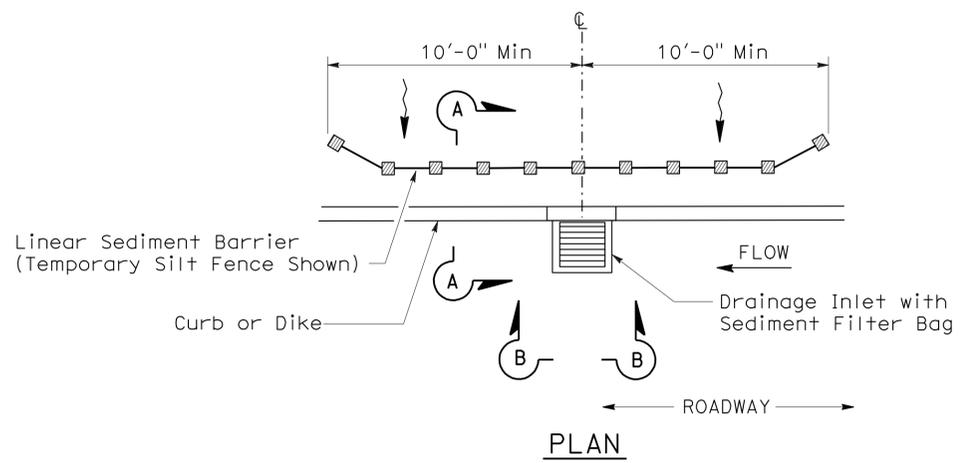
SECTION
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



SECTION A-A



PERSPECTIVE
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6B)
(CURB INLET WITHOUT GRATE)



PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 5)
(SEDIMENT FILTER BAG)

- NOTES:**
1. See Standard Plan T51 for Temporary Silt Fence.
 2. Dimensions may vary to fit field conditions.

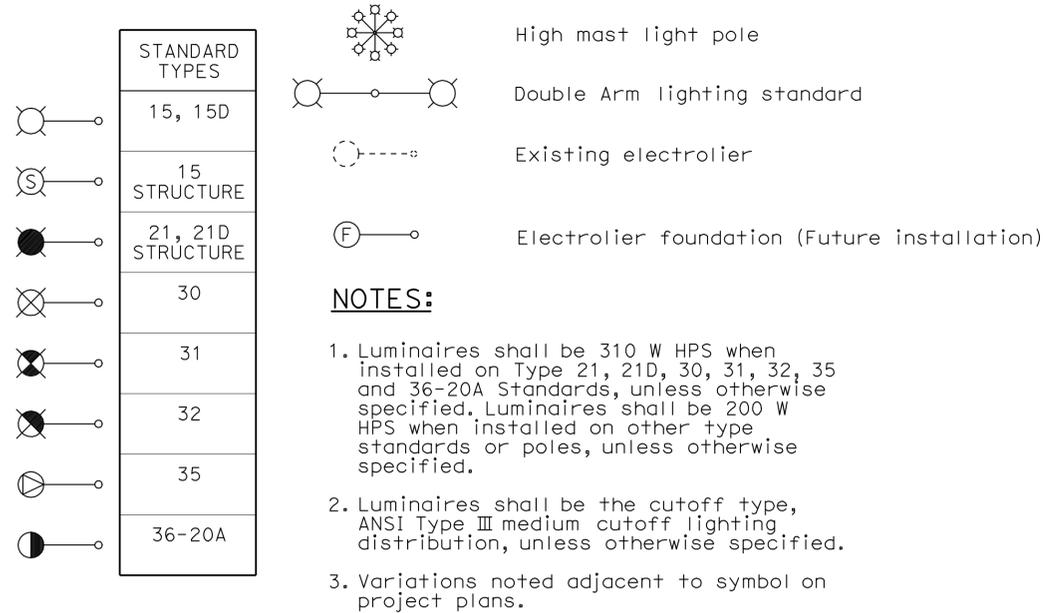
To accompany plans dated 2-13-12

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION
CONTROL DETAILS
(TEMPORARY DRAINAGE
INLET PROTECTION)**

NO SCALE
NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

ELECTROLIERS



STANDARD NOTES:

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

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	50	56

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

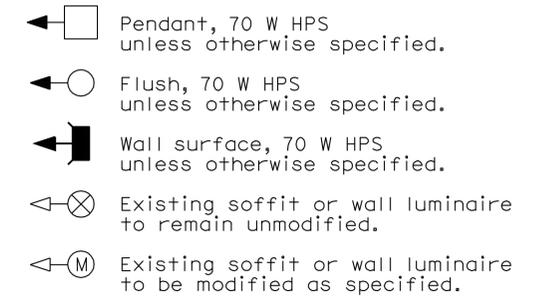
October 5, 2007
PLANS APPROVAL DATE

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

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

To accompany plans dated 2-13-12

SOFFIT AND WALL MOUNTED LUMINAIRES



NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	51	56

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

October 5, 2007
 PLANS APPROVAL DATE

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To accompany plans dated 2-13-12

CONDUIT

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

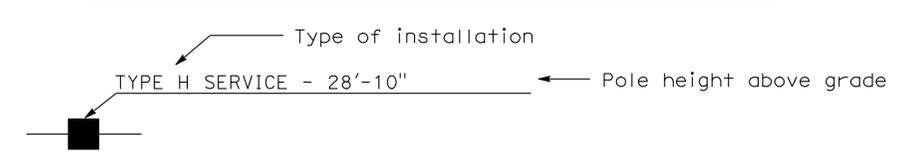
SIGNAL EQUIPMENT

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

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

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

SIGNAL EQUIPMENT Cont

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

NOTES:

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

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

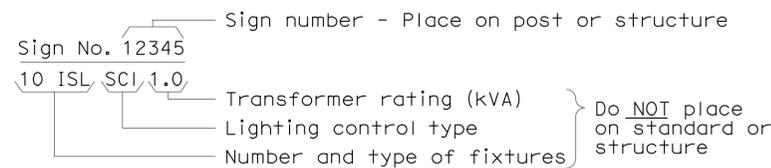
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

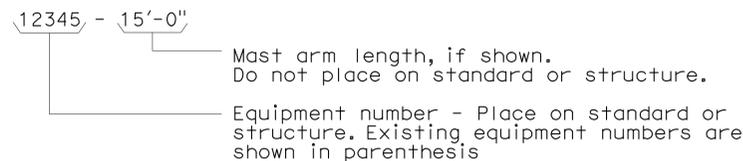
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

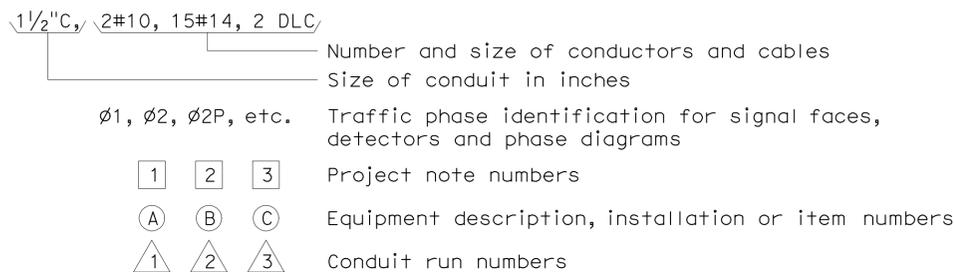
ILLUMINATED SIGN IDENTIFICATION NUMBER:



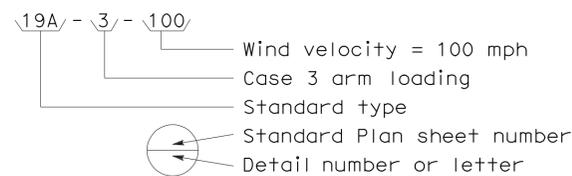
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



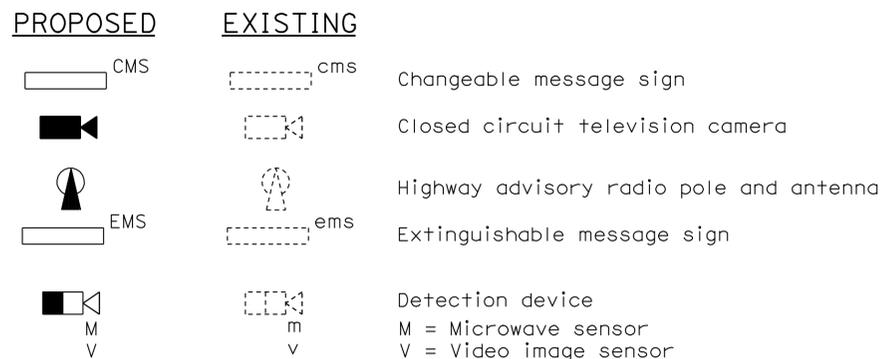
CONDUIT AND CONDUCTOR IDENTIFICATION:



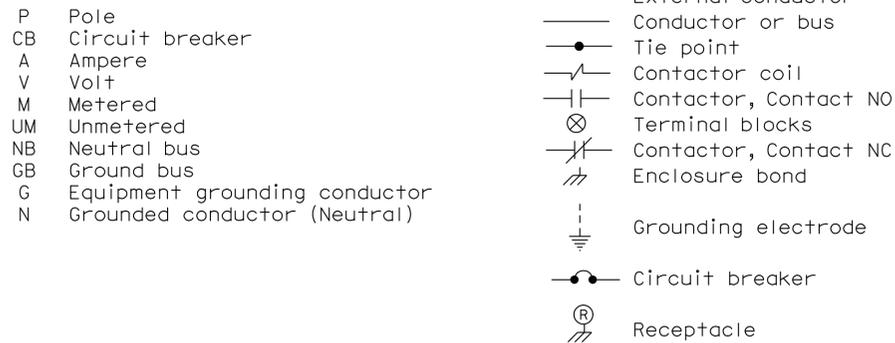
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



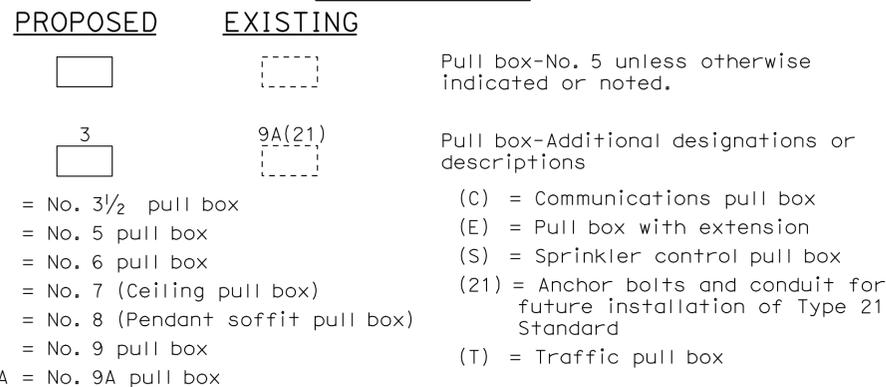
MISCELLANEOUS EQUIPMENT



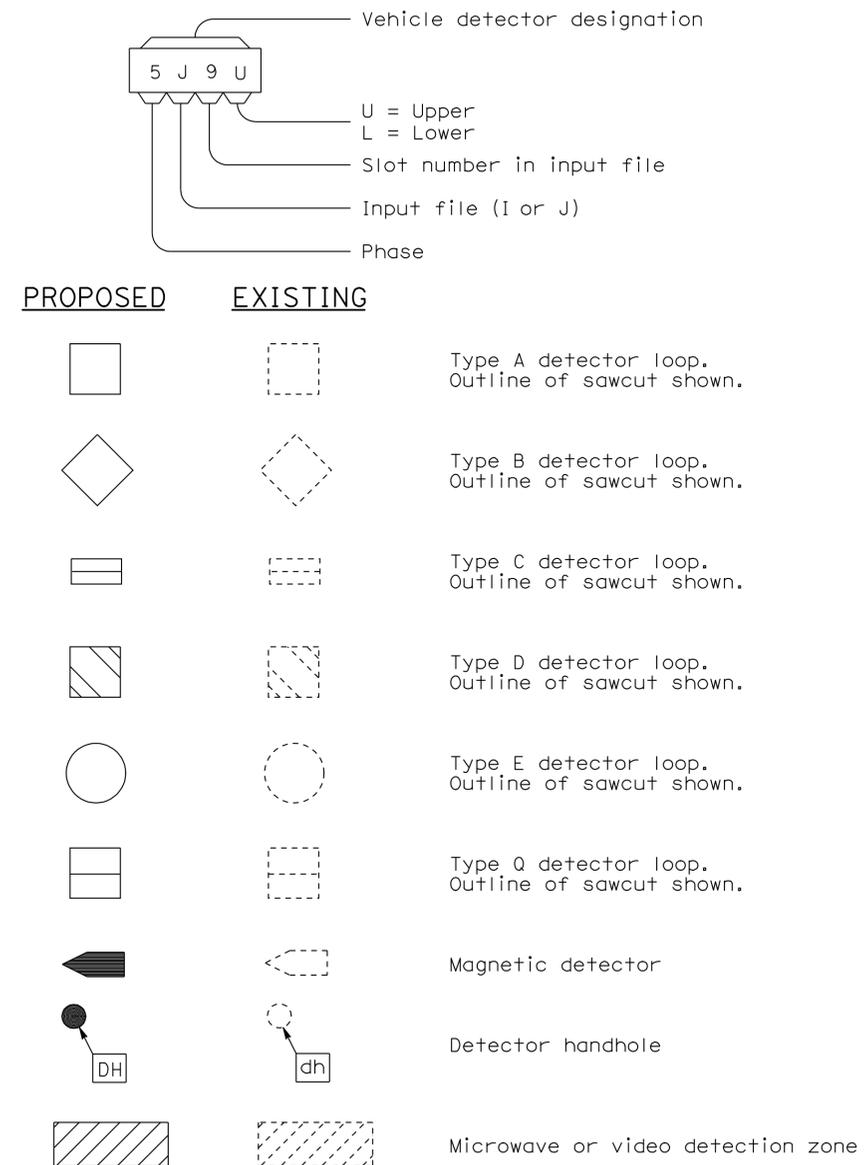
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

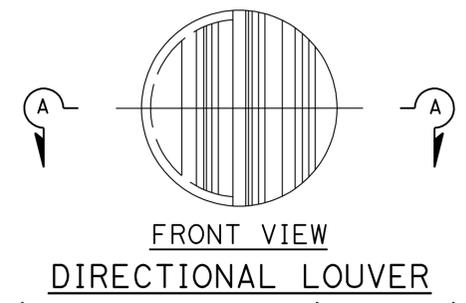
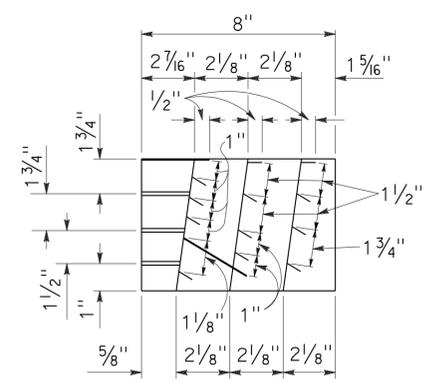
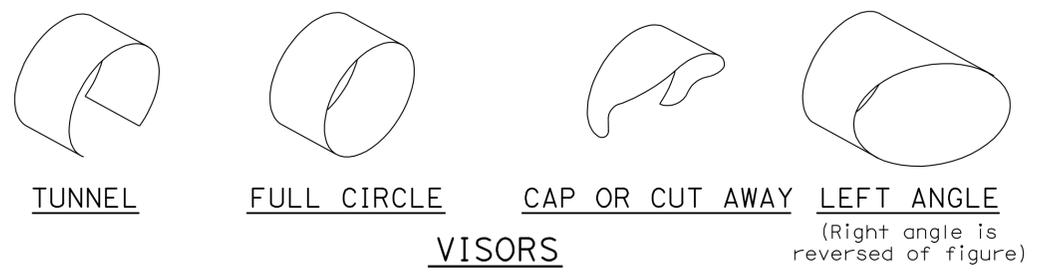
RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

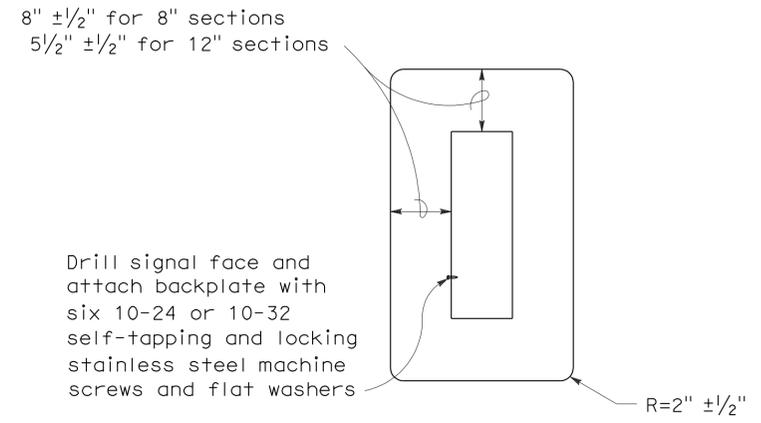
2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	53	56

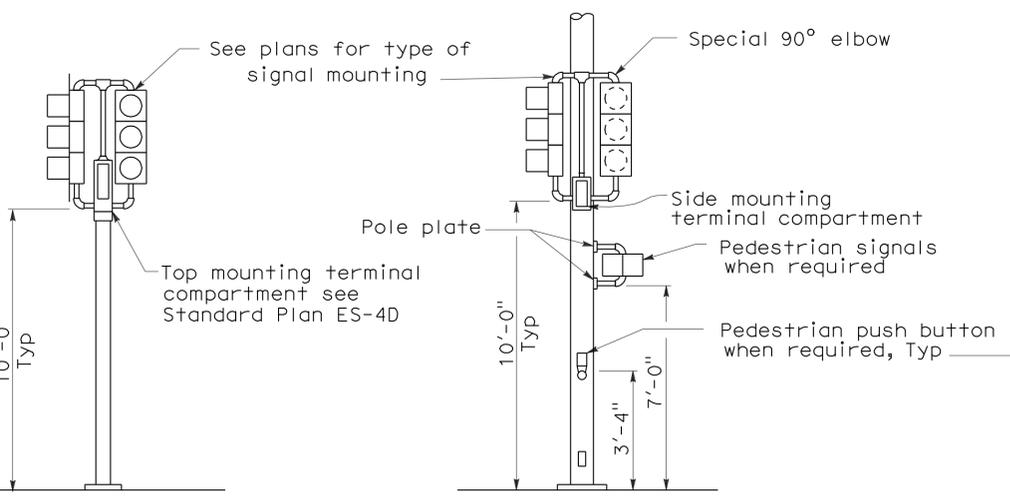
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
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 REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA



Directional louvers shall be oriented as directed by the Engineer and secured in place with one plated brass machine screw and nut.



8" AND 12" SECTIONS
BACKPLATE
 1/16" minimum thickness
 3001-14 aluminum, or plastic when specified

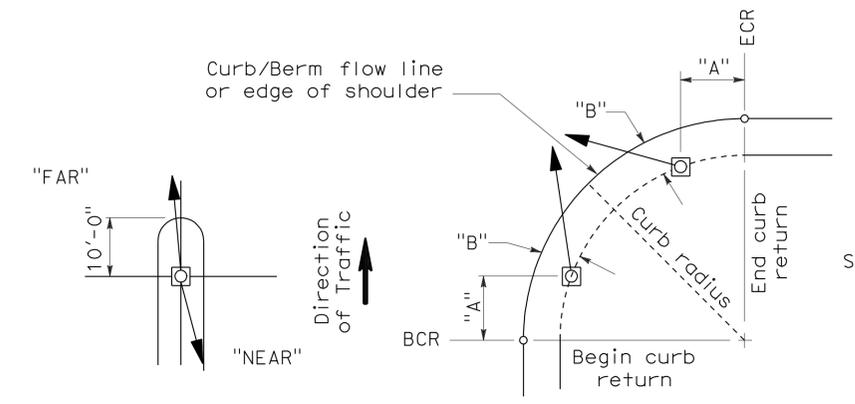


TOP MOUNTED SIGNALS (TV)
 Type 1-A, 1-B, 1-C and 1-D standard as indicated on the plans

SIDE MOUNTED SIGNALS (SV AND SP)
 Normally used on standards with luminaire or signal mast arm

LEFT TURN LANE SIGNAL
 Type 1-A, 1-B, 1-C and 1-D standard as indicated on plans

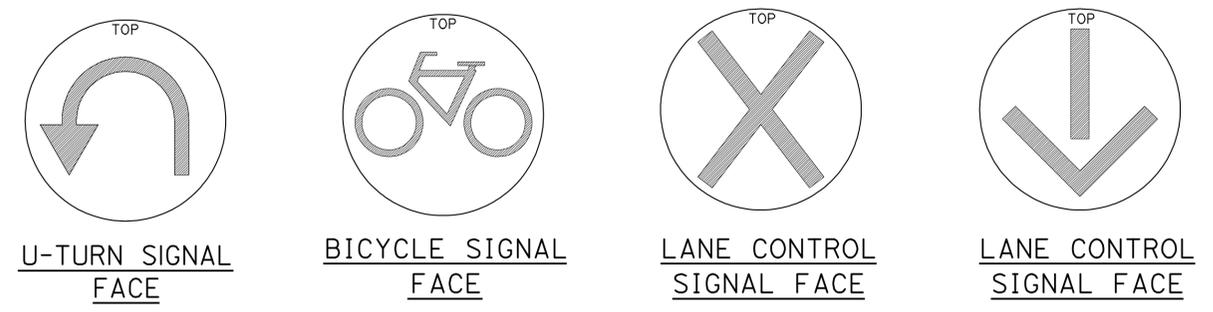
TYPICAL SIGNAL INSTALLATIONS



NOTES:

1. Typical signal pole placement unless dimensioned on plans.
2. For "A" and "B" dimensions, see Pole Schedule, or as directed by the Engineer.

SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

RSP ES-4C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN ES-4C DATED MAY 1, 2006 - PAGE 420 OF THE STANDARD PLANS BOOK DATED MAY 2006.

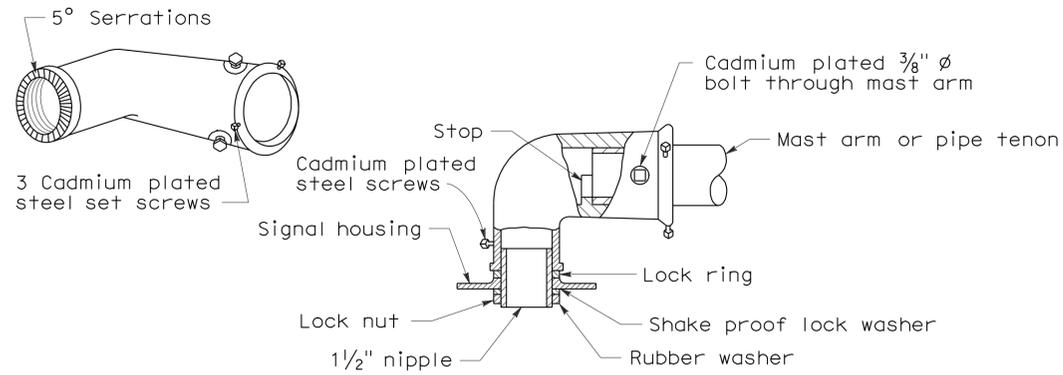
REVISED STANDARD PLAN RSP ES-4C

2006 REVISED STANDARD PLAN RSP ES-4C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	54	56

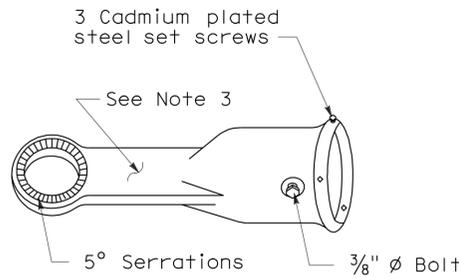
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
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 REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 2-13-12



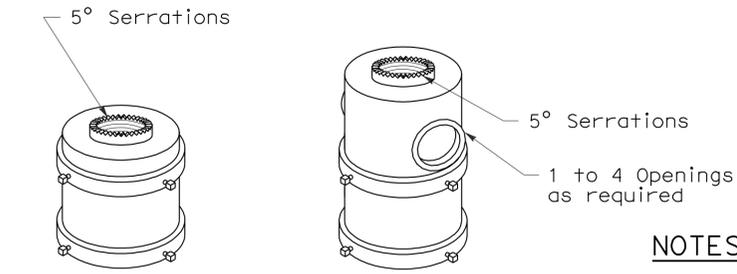
MAST ARM MOUNTING - TYPE "MAT"

For 2 NPS pipe, see Note 1.



MAST ARM MOUNTING - TYPE "MAS"

For 2 NPS pipe. See Note 1.

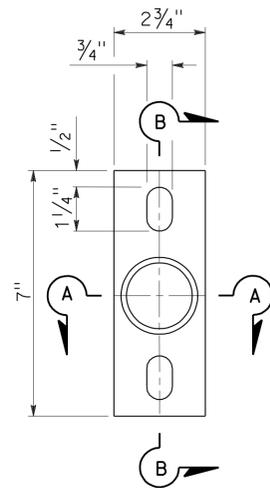


For one mounting For multiple mountings

TOP MOUNTINGS

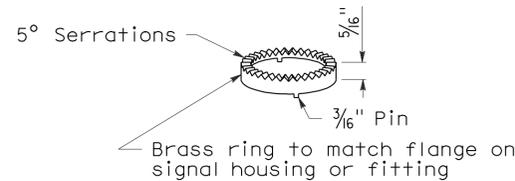
For 4 NPS pipe, see Note 2.

SIGNAL SLIP FITTERS



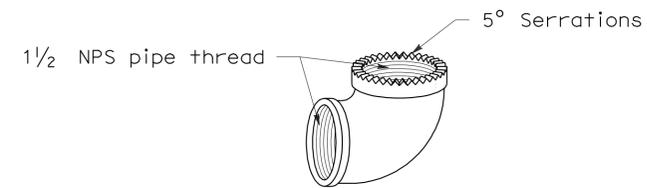
POLE PLATE

For side mountings



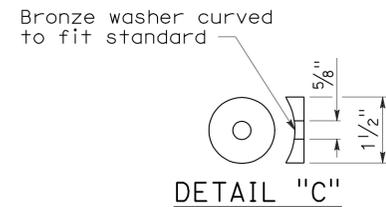
LOCK RING

Use where locking ring is not integral with signal housing or fitting.



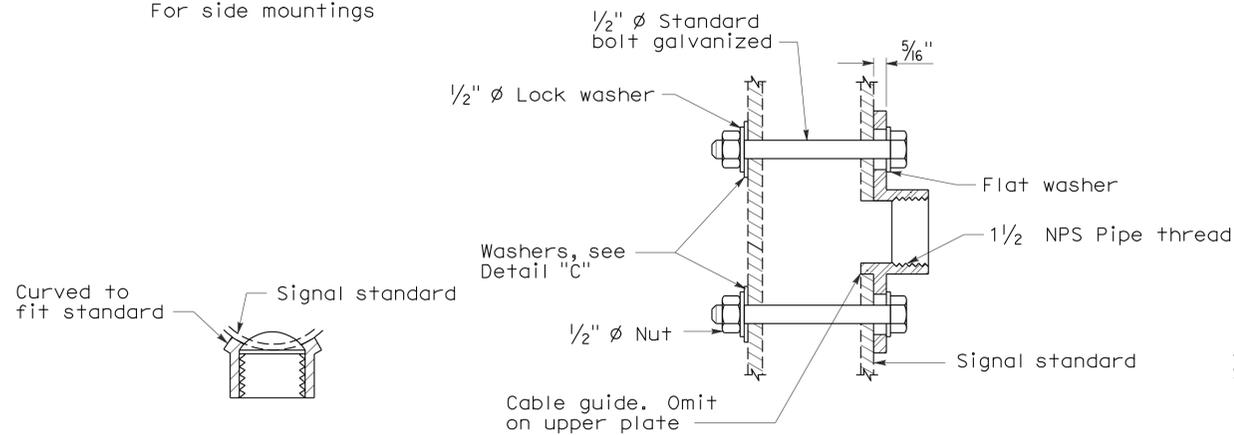
SPECIAL 90° ELBOW

One for each signal head, except those with special slip fitter mounting



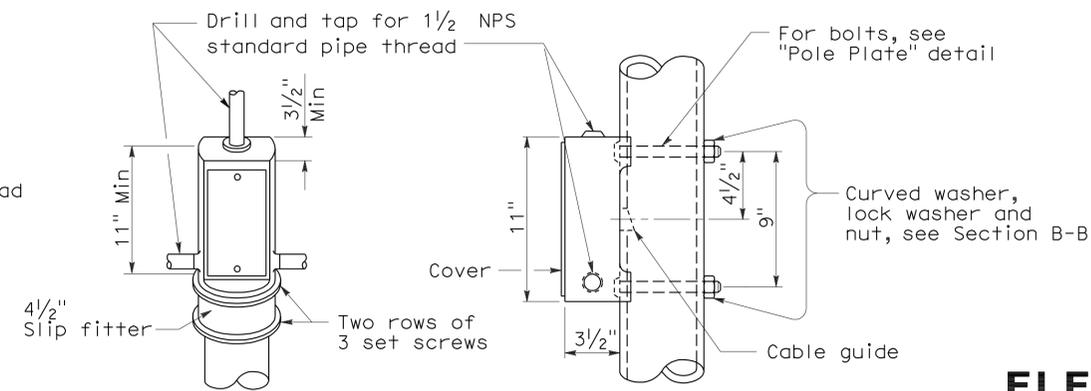
DETAIL "C"

MISCELLANEOUS MOUNTING HARDWARE



SECTION A-A

SECTION B-B



TOP MOUNTING

SIDE MOUNTING

TERMINAL COMPARTMENTS

ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

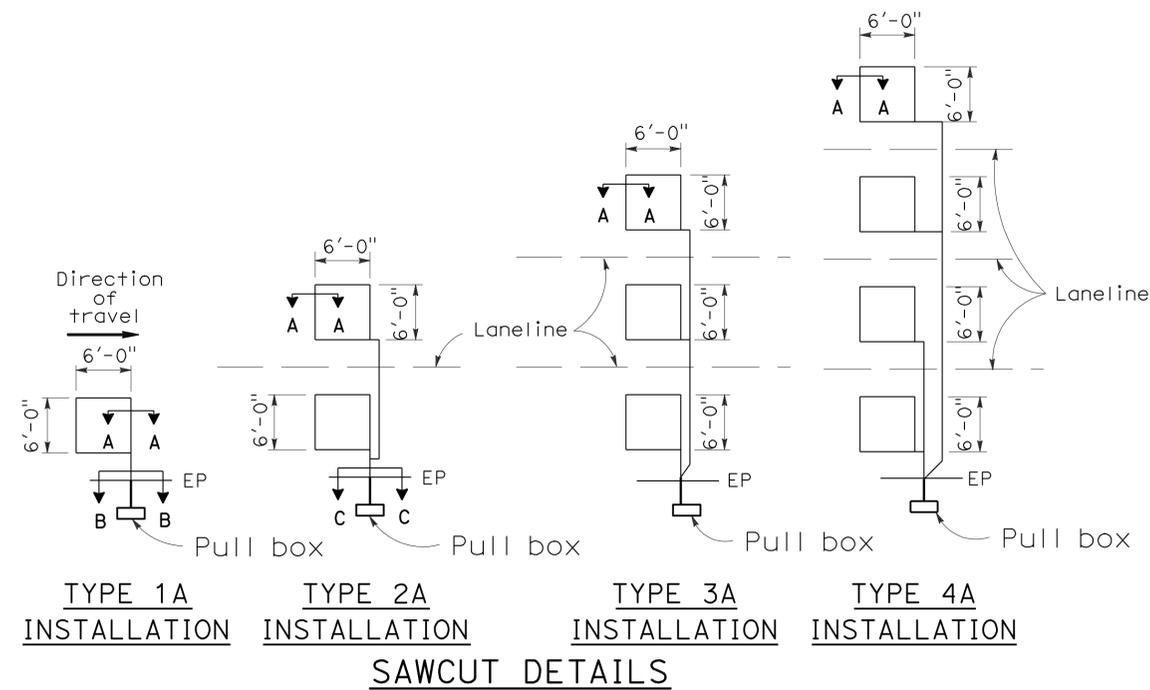
RSP ES-4D DATED June 6, 2008 SUPERSEDES STANDARD PLAN ES-4D DATED MAY 1, 2006 - PAGE 421 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-4D

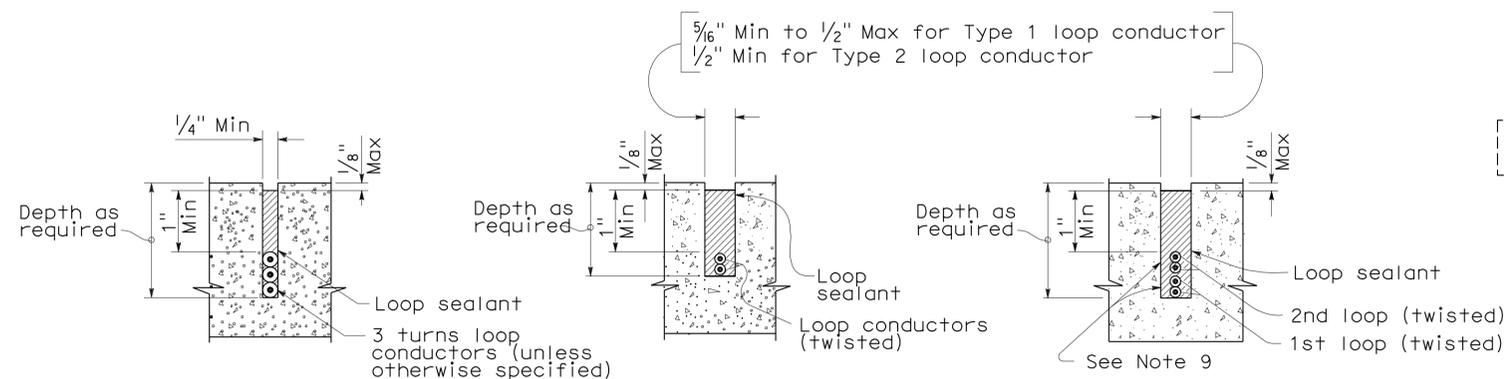
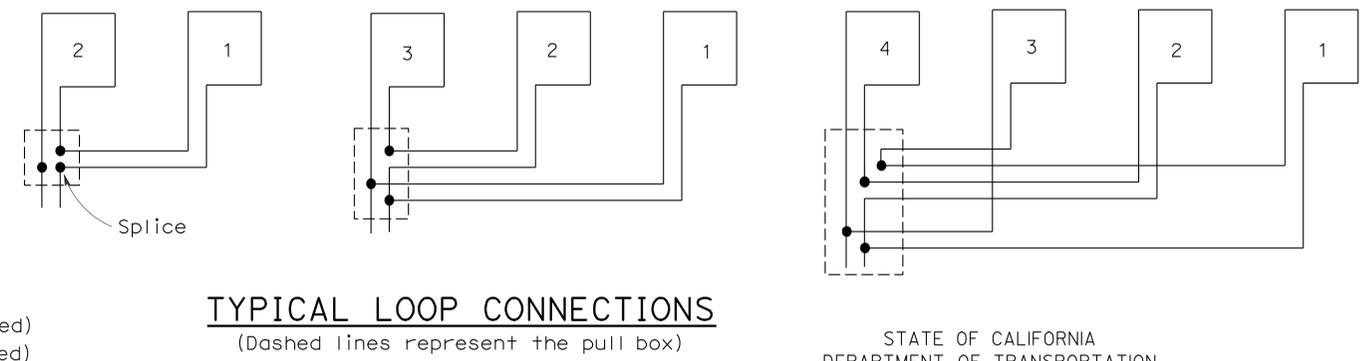
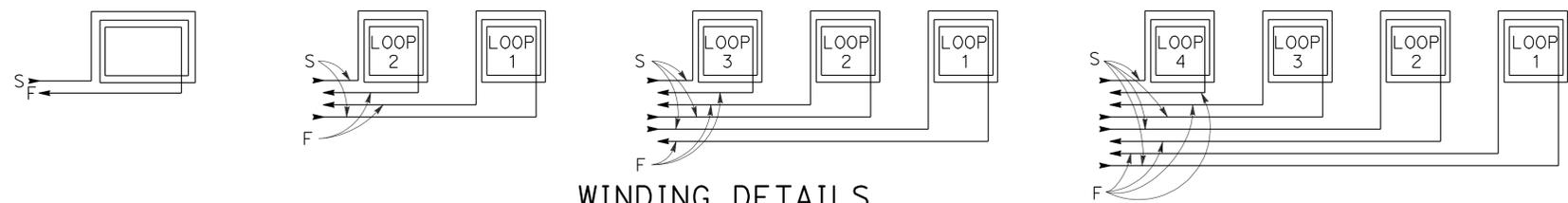
2006 REVISED STANDARD PLAN RSP ES-4D

LOOP INSTALLATION PROCEDURE

- Loops shall be centered in lanes.
- Saw slots in pavement for loop conductors as shown in details.
- Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
- Bottom of saw slot shall be smooth with no sharp edges.
- Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
- Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
- Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
- Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
- No more than 2 twisted pairs shall be installed in one sawed slot.
- Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
- The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
- Fill slots as shown in details.
- Splice loop conductors to lead-in-cable. Splices shall be soldered.
- End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
- Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
- Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.



- 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)



ELECTRICAL SYSTEMS (DETECTORS)

NO SCALE

RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-5A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	55	56

October 5, 2007
PLANS APPROVAL DATE

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

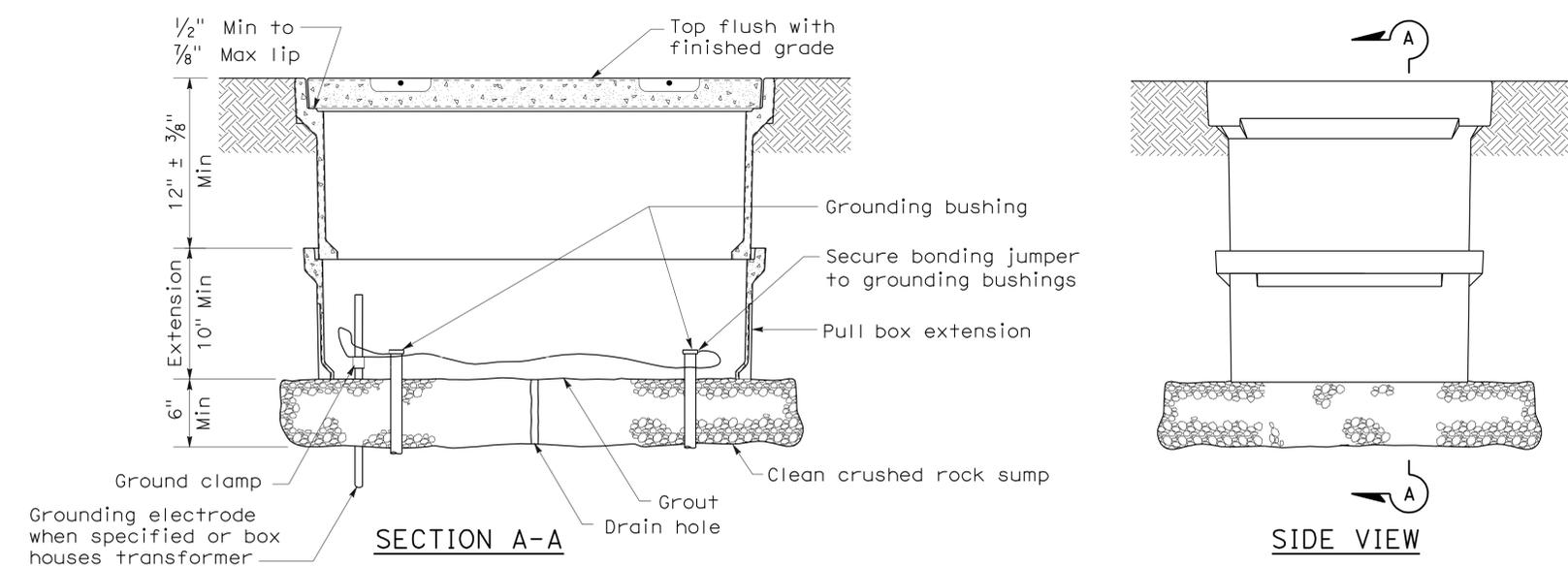
To accompany plans dated 2-13-12

2006 REVISED STANDARD PLAN RSP ES-5A

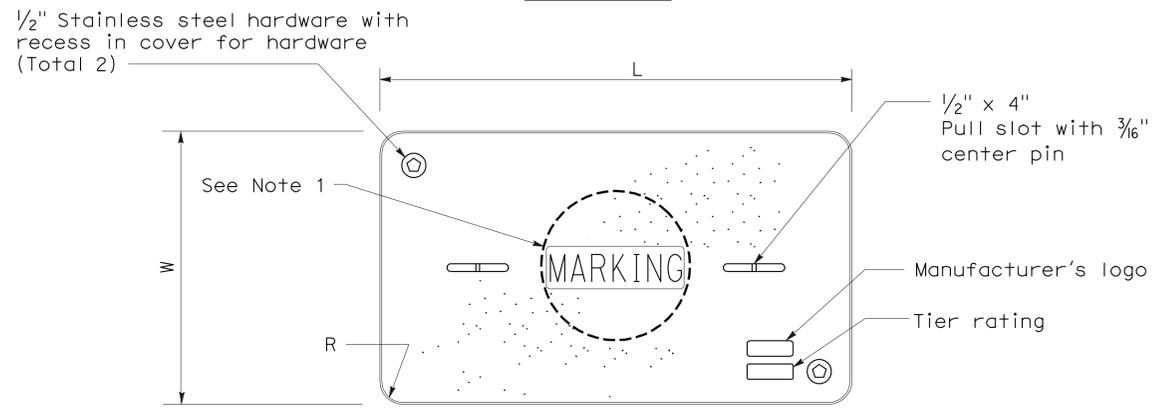
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	57	11.8/13.4	56	56

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 January 20, 2012
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

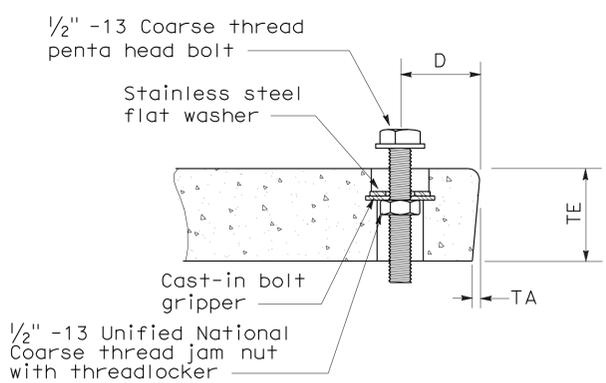
To accompany plans dated 2-13-12



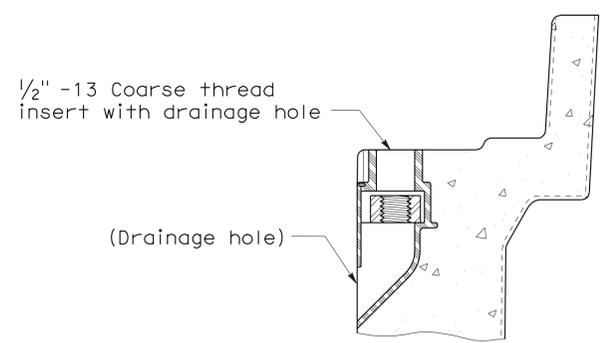
INSTALLATION DETAILS
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
(Or similar)



TYPICAL THREADED INSERT
(Or similar)

NOTES ON PULL BOXES:

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

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

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

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

2006 NEW STANDARD PLAN NSP ES-8A