Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	1	37

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-5	LAYOUTS
6-16	CONSTRUCTION DETAILS
17	CONSTRUCTION AREA SIGNS
18-20	MOTORIST INFORMATION PLANS
21-23	PAVEMENT DELINEATION DETAILS AND QUANTITIES
24-26	SUMMARY OF QUANTITIES
27-37	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

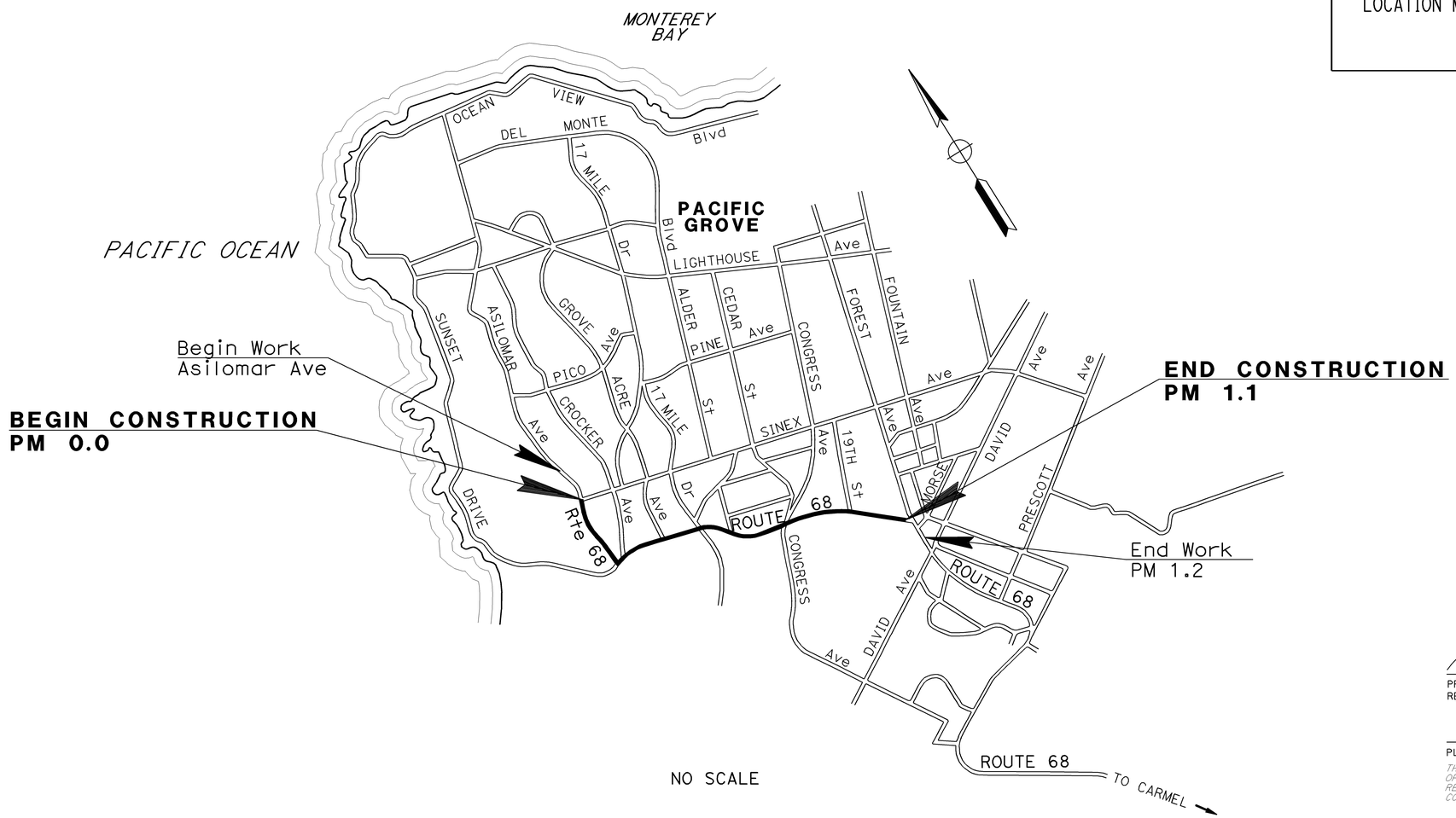
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN MONTEREY COUNTY
IN PACIFIC GROVE
FROM SINEX AVENUE TO FOREST AVENUE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER: KELLY J. McCLAIN

DESIGN MANAGER: MARK CRESSWELL

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

10-5-15
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

October 5, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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

CONTRACT No.	05-1F5704
PROJECT ID	0514000012

LAST REVISION 10-05-15 DATE PLOTTED => 08-OCT-2015 TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	2	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

PLANS APPROVAL DATE 10-5-15

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTED ON THESE PLANS.
3. HMA AND TACK COAT SHALL NOT BE PLACED ON PCC STRUCTURES OR SURFACES.
4. ASPHALTIC EMULSION (FOG SEAL COAT) SHALL BE PLACED ON EXISTING UNPAINTED AC DIKE, AC SIDEWALKS, AND AC DRAINAGE APRONS.
5. MINOR TREE AND VEGETATION TRIMMING REQUIRED FOR FULL PAVEMENT ACCESS.
6. SHOULDER BACKING TO BE PLACED AT LOCATIONS SHOWN ON LAYOUTS AND AS DIRECTED BY ENGINEER.

TYPICAL PAVEMENT STRUCTURE SECTIONS

1 — 0.10′ COLD PLANE AC Pvmt
0.10′ RHMA-G

2 — 0.20′ COLD PLANE AC Pvmt
0.10′ RHMA-G

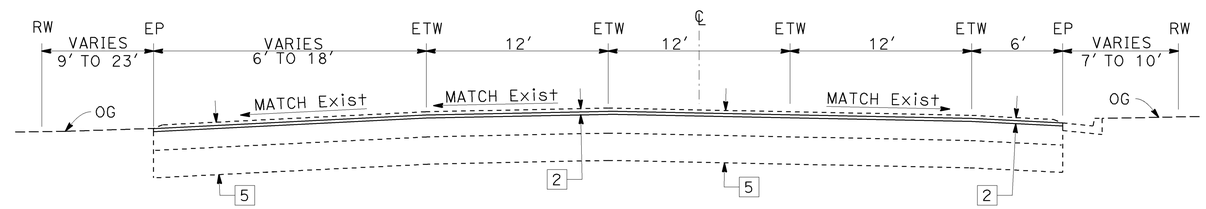
3 — Exist
0.40′ AC

4 — Exist
0.50′ AC
0.50′ BASE

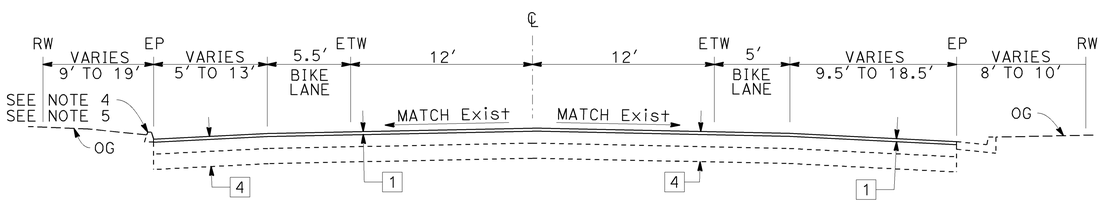
5 — Exist
0.10′ OGAC
0.73′ AC
0.90′ BASE

PAVEMENT CLIMATE REGION

CENTRAL COAST



PM 0.82 TO 1.10



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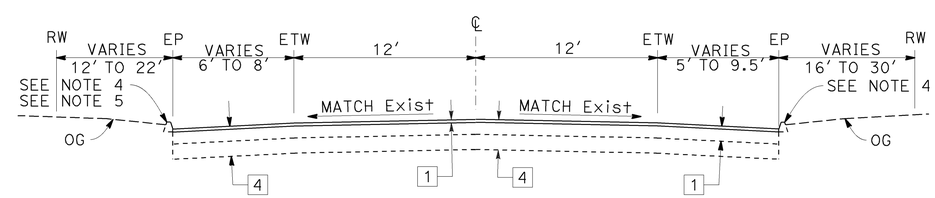

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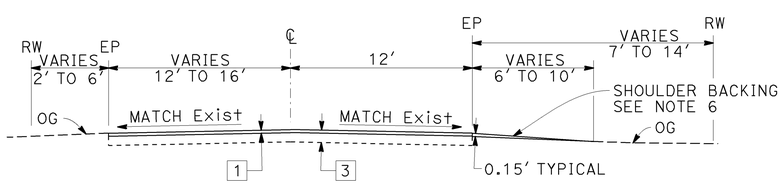


PM 0.00 TO 0.20

ROUTE 68

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN

REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	3	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

PLANS APPROVAL DATE 10-5-15

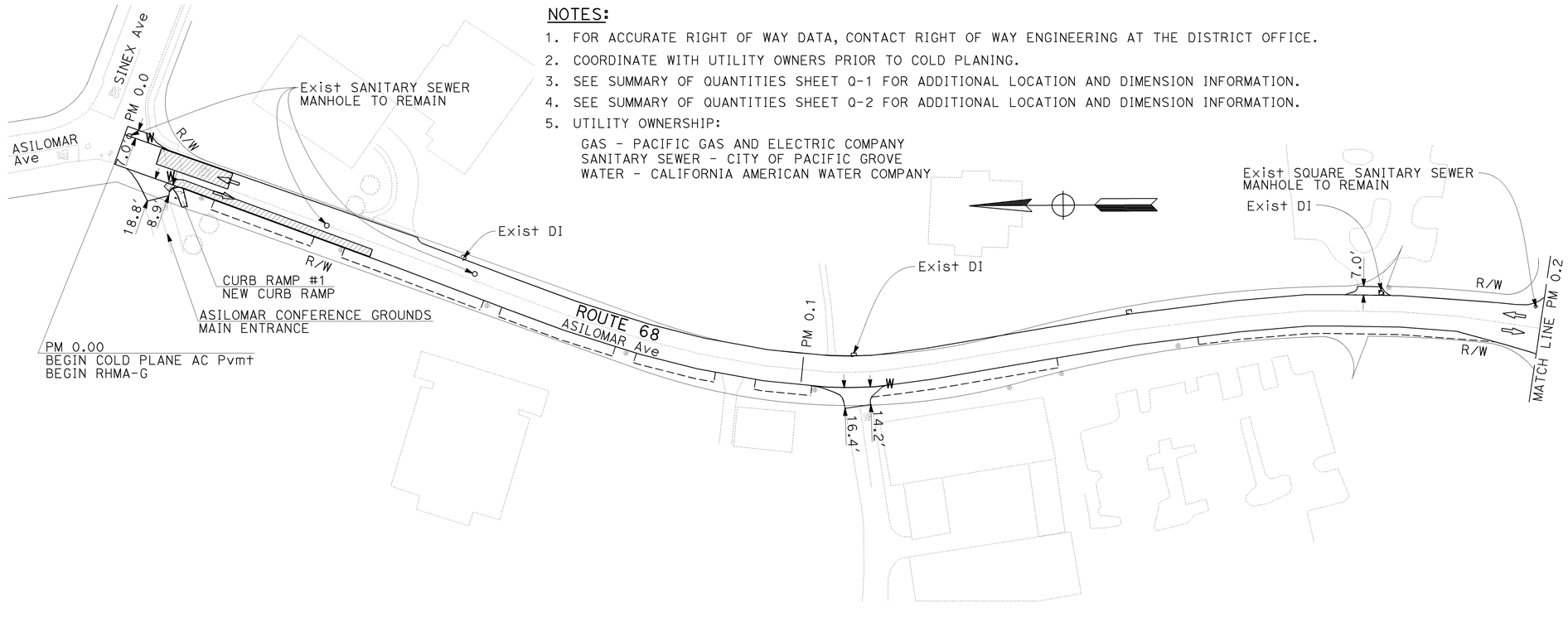
REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE WITH UTILITY OWNERS PRIOR TO COLD PLANING.
3. SEE SUMMARY OF QUANTITIES SHEET Q-1 FOR ADDITIONAL LOCATION AND DIMENSION INFORMATION.
4. SEE SUMMARY OF QUANTITIES SHEET Q-2 FOR ADDITIONAL LOCATION AND DIMENSION INFORMATION.
5. UTILITY OWNERSHIP:

   GAS - PACIFIC GAS AND ELECTRIC COMPANY
   SANITARY SEWER - CITY OF PACIFIC GROVE
   WATER - CALIFORNIA AMERICAN WATER COMPANY

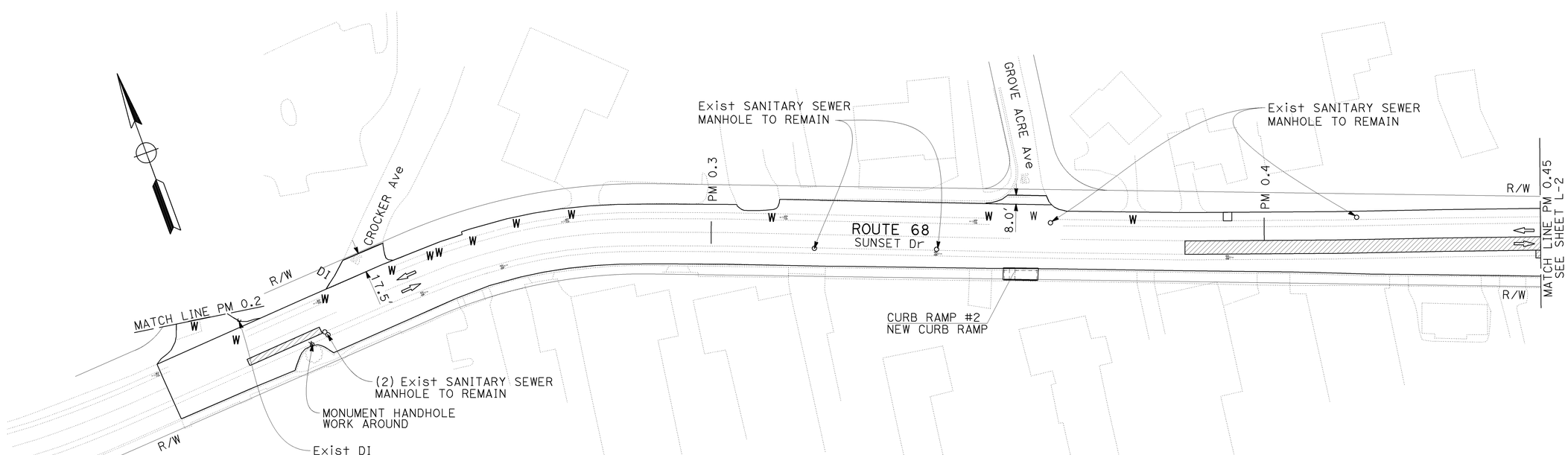


LEGEND:

- W — WATER HANDHOLE TO BE ADJUSTED TO GRADE BY OTHERS. SEE NOTE 2
- G — GAS HANDHOLE TO BE ADJUSTED TO GRADE BY OTHERS. SEE NOTE 2
- REPAIR FAILED AREAS SEE NOTE 3
- COLD PLANE AC PAVEMENT AND RHMA-G LIMIT
- SHOULDER BACKING LIMITS SEE NOTE 4

ABBREVIATION:

RHMA-G: RUBBERIZED HOT MIX ASPHALT (GAP GRADED)



SCALE: 100'=1"

LAYOUT L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY / DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	4	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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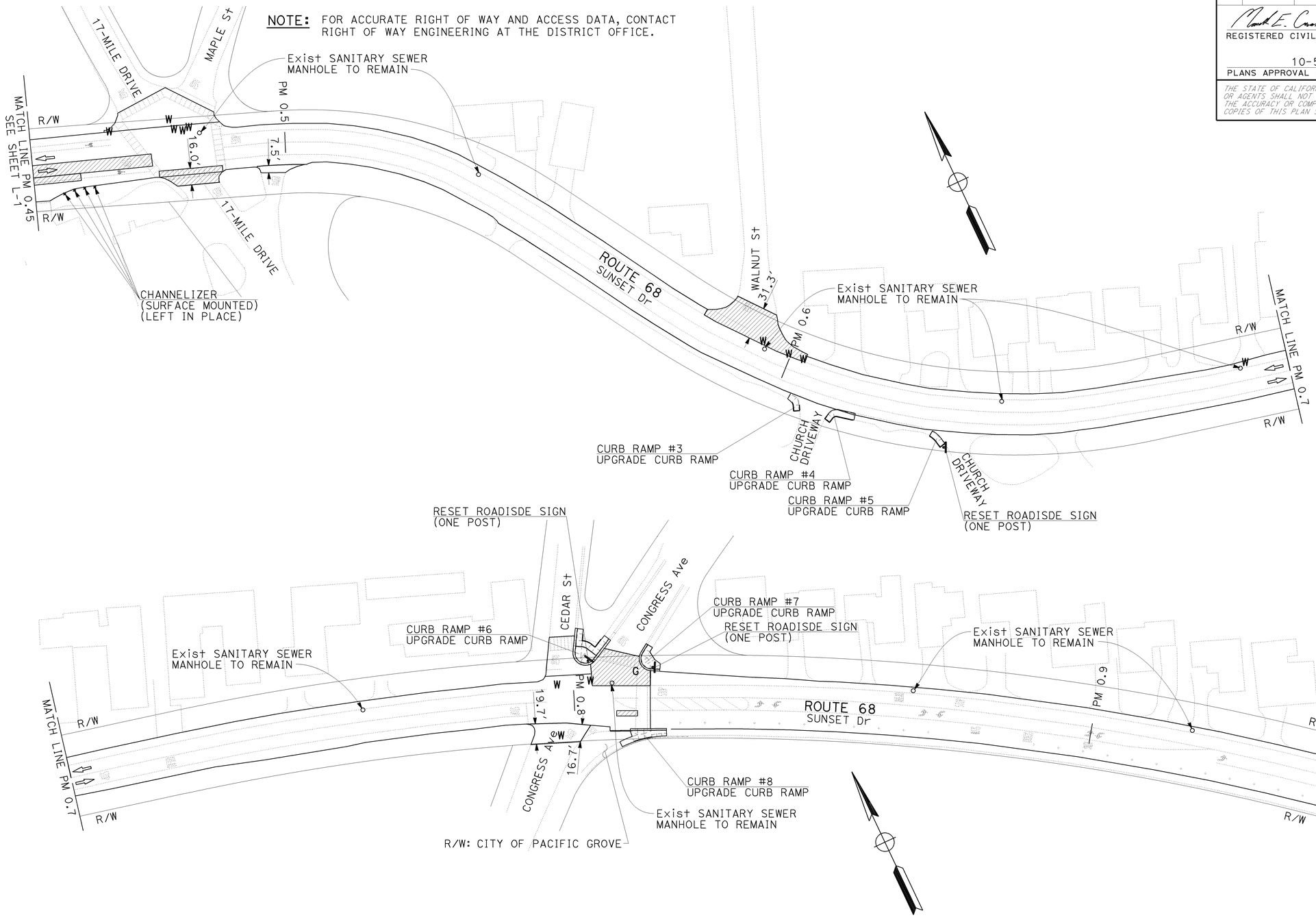
NOTE: FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



SCALE: 100'=1"

LAYOUT L-2

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

LAST REVISION 10-05-15 | DATE PLOTTED => 08-OCT-2015 | TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	5	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

PLANS APPROVAL DATE 10-5-15

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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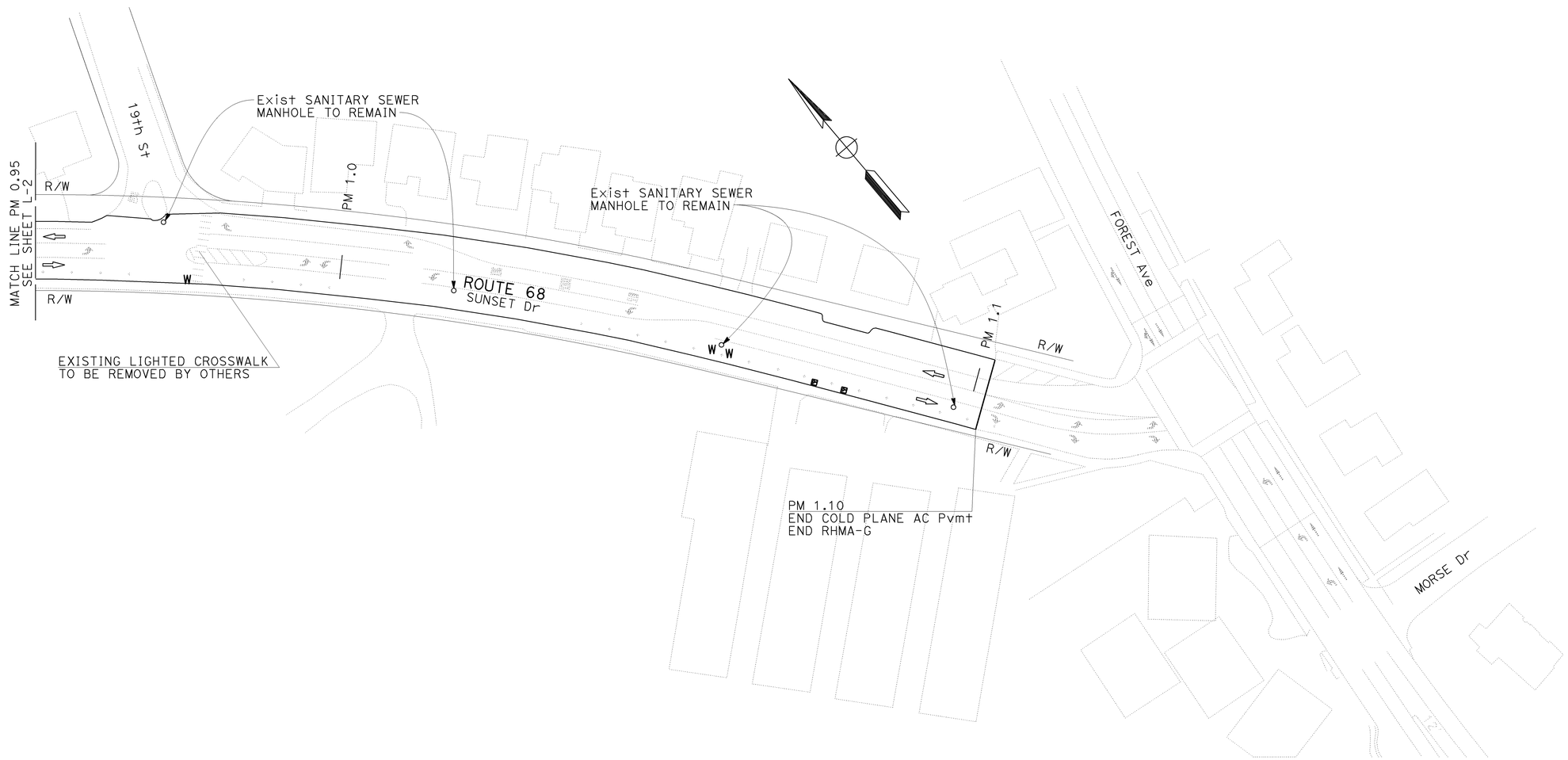

SCALE: 100'=1"

LAYOUT L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: MARK CRESSWELL

CHECKED BY: KELLY J. McCLAIN

REVISED BY

DATE REVISED

LAST REVISION 10-05-15

DATE PLOTTED => 08-OCT-2015

TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	6	37

REGISTERED CIVIL ENGINEER DATE 10-5-15

PLANS APPROVAL DATE 10-5-15

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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

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

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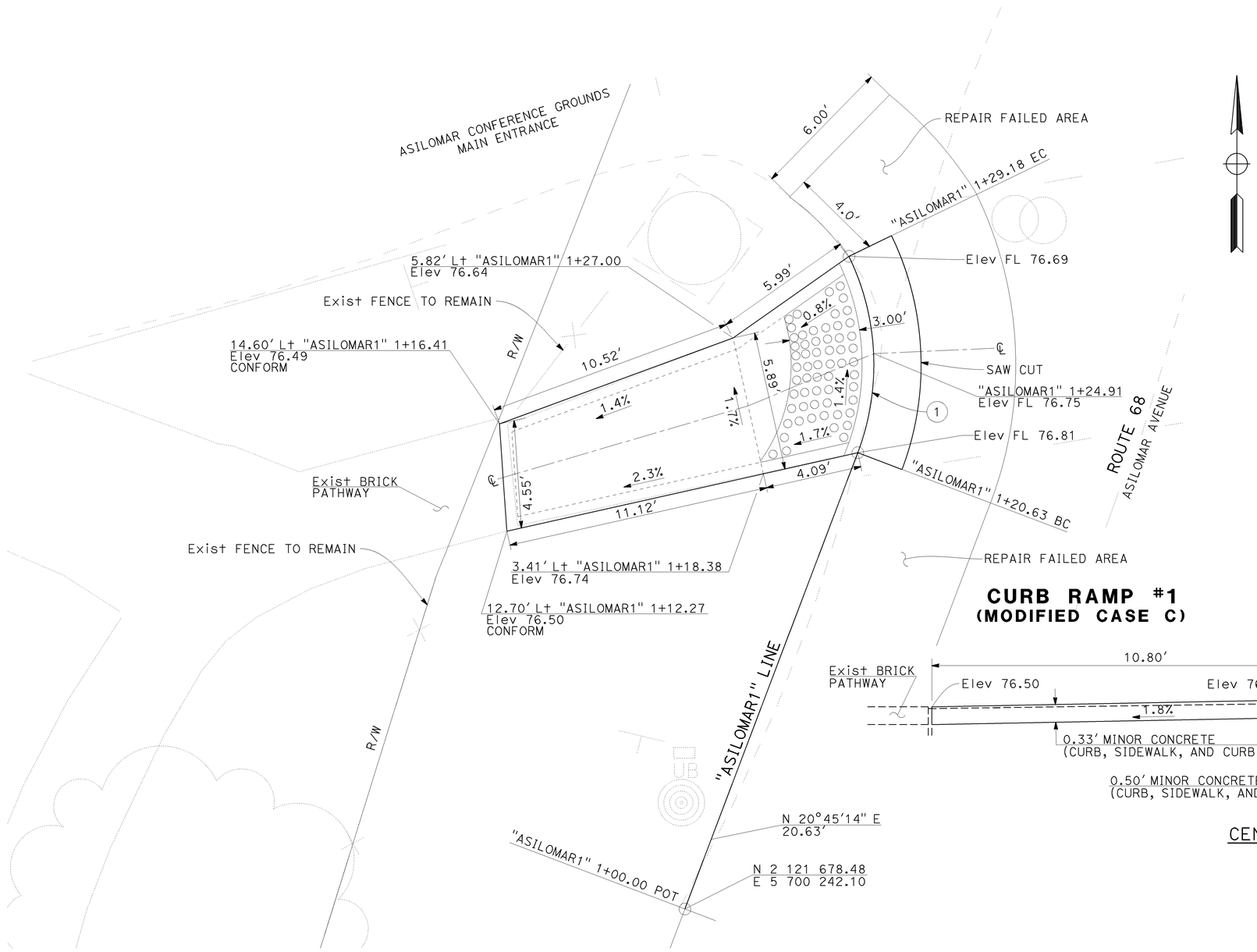

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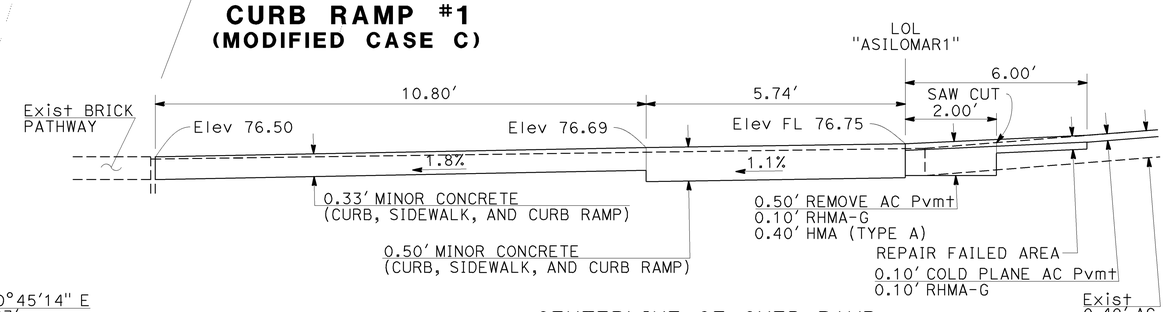

CENTERLINE OF CUEB RAMP

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MARK CRESSWELL	KELLY J. McCLAIN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 10-05-15 | DATE PLOTTED => 08-OCT-2015 | TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	7	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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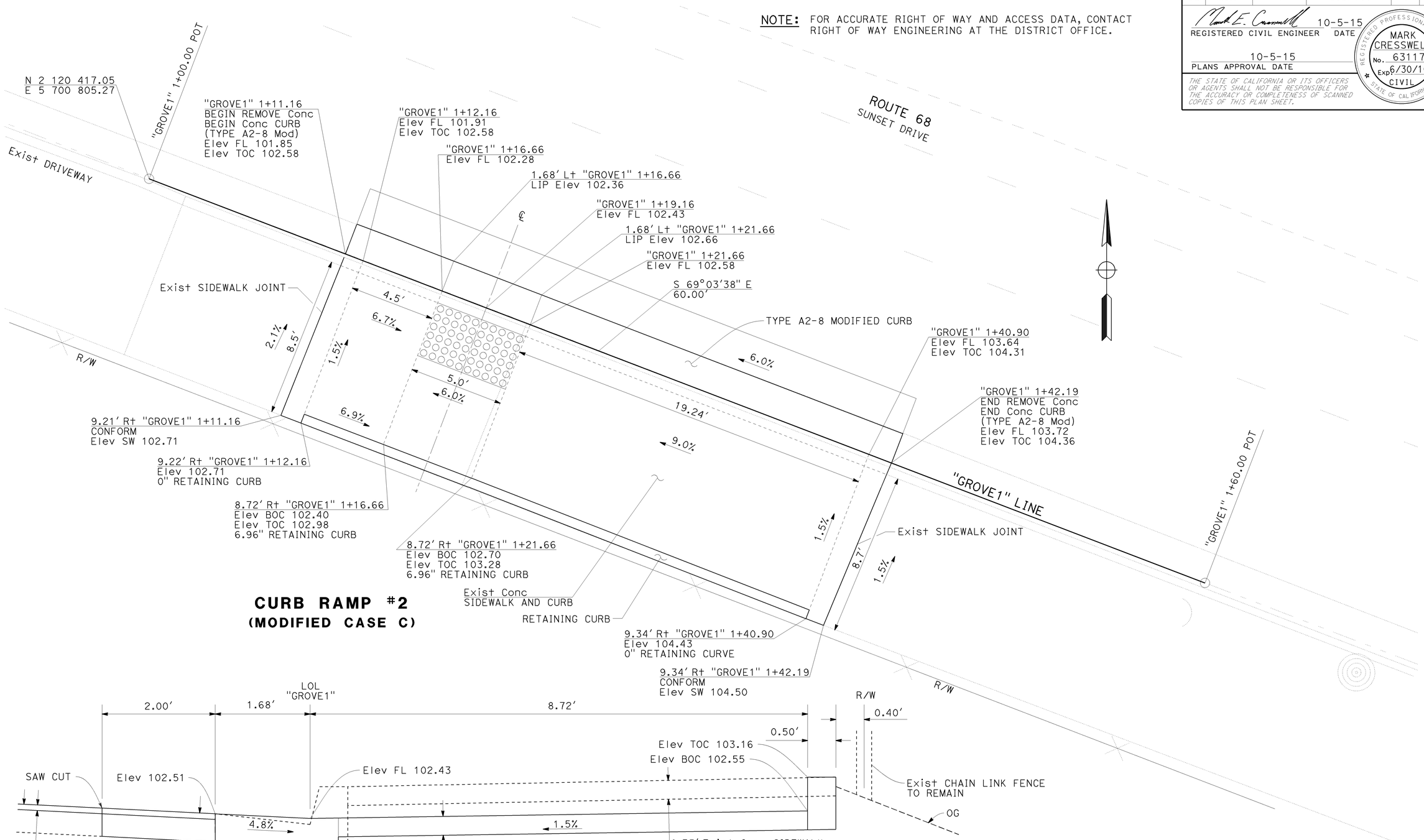
NOTE: FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURB RAMP #2
(MODIFIED CASE C)

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	8	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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

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

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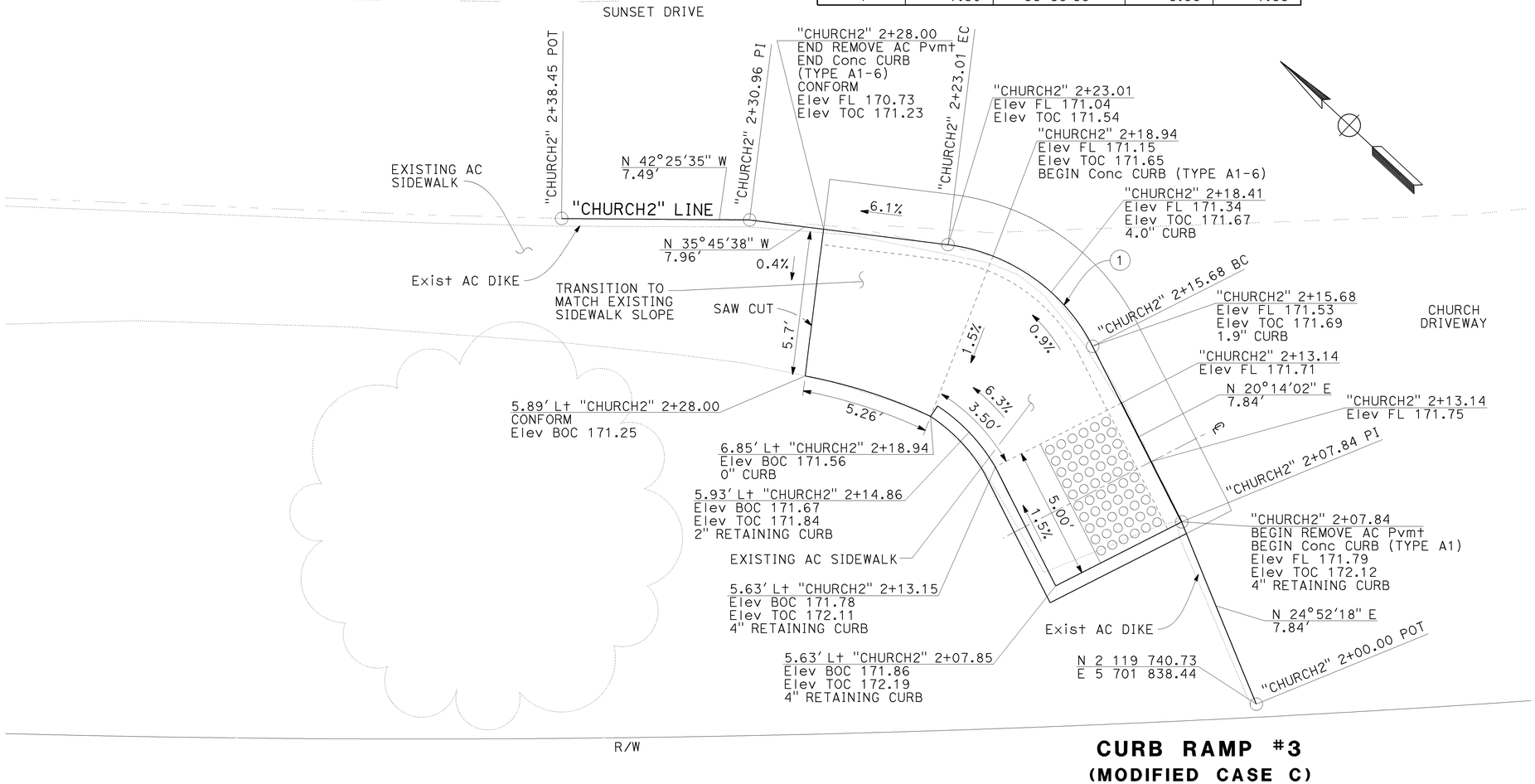

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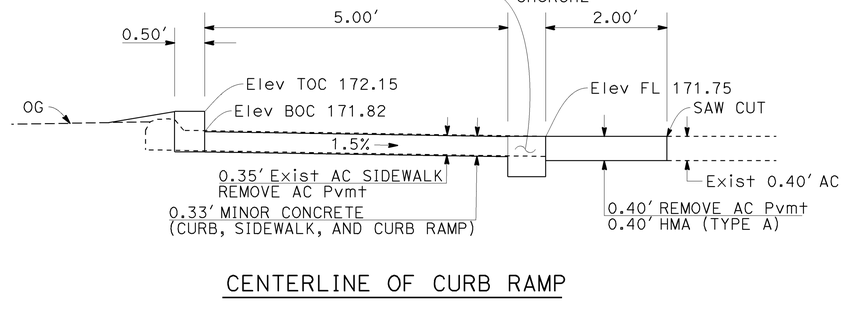

CENTERLINE OF CURB RAMP

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	9	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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CURVE DATA

No.	R	Δ	T	L
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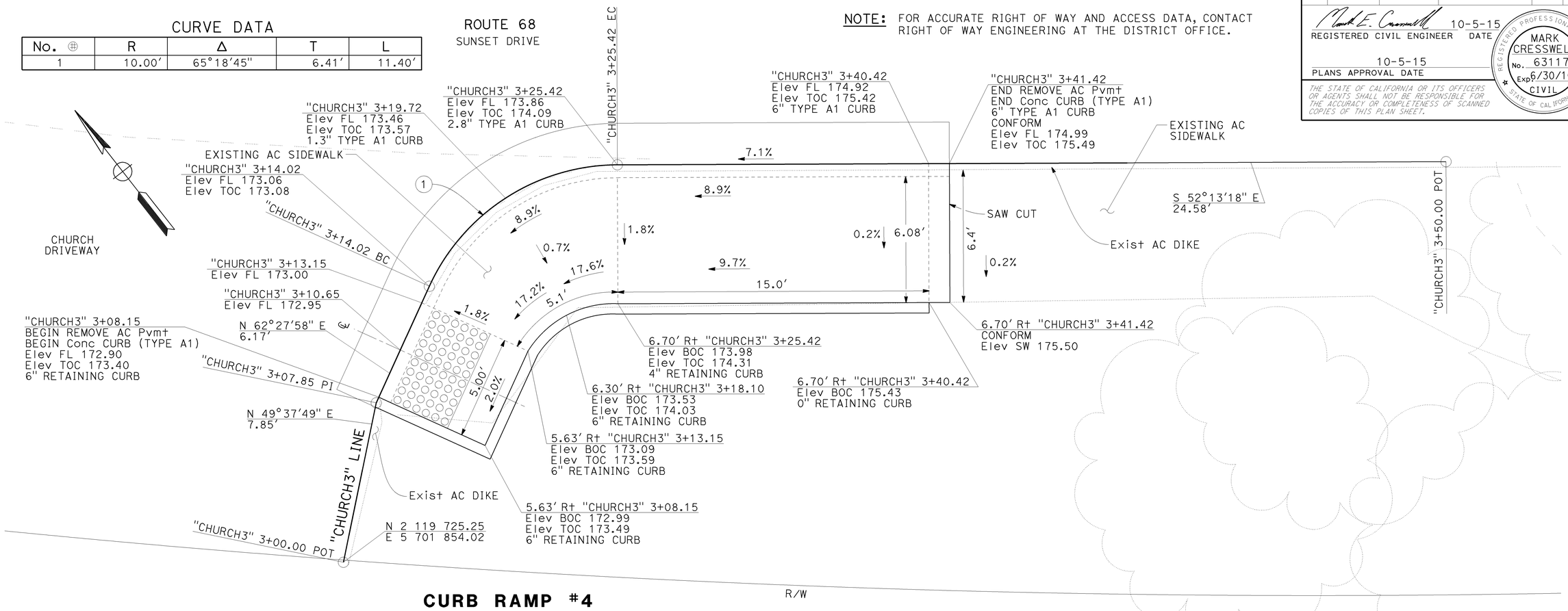
NOTE: FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



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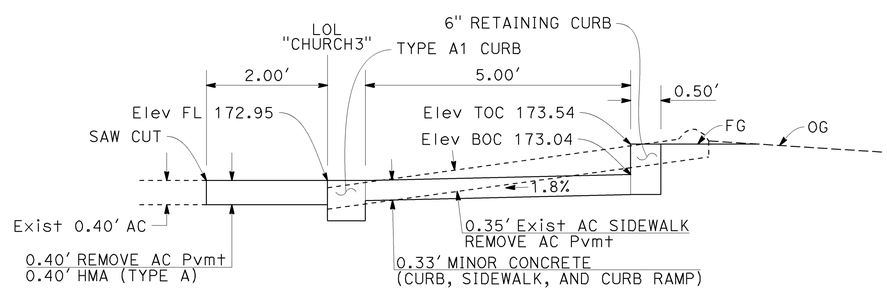


CENTERLINE OF CURB RAMP

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	10	37

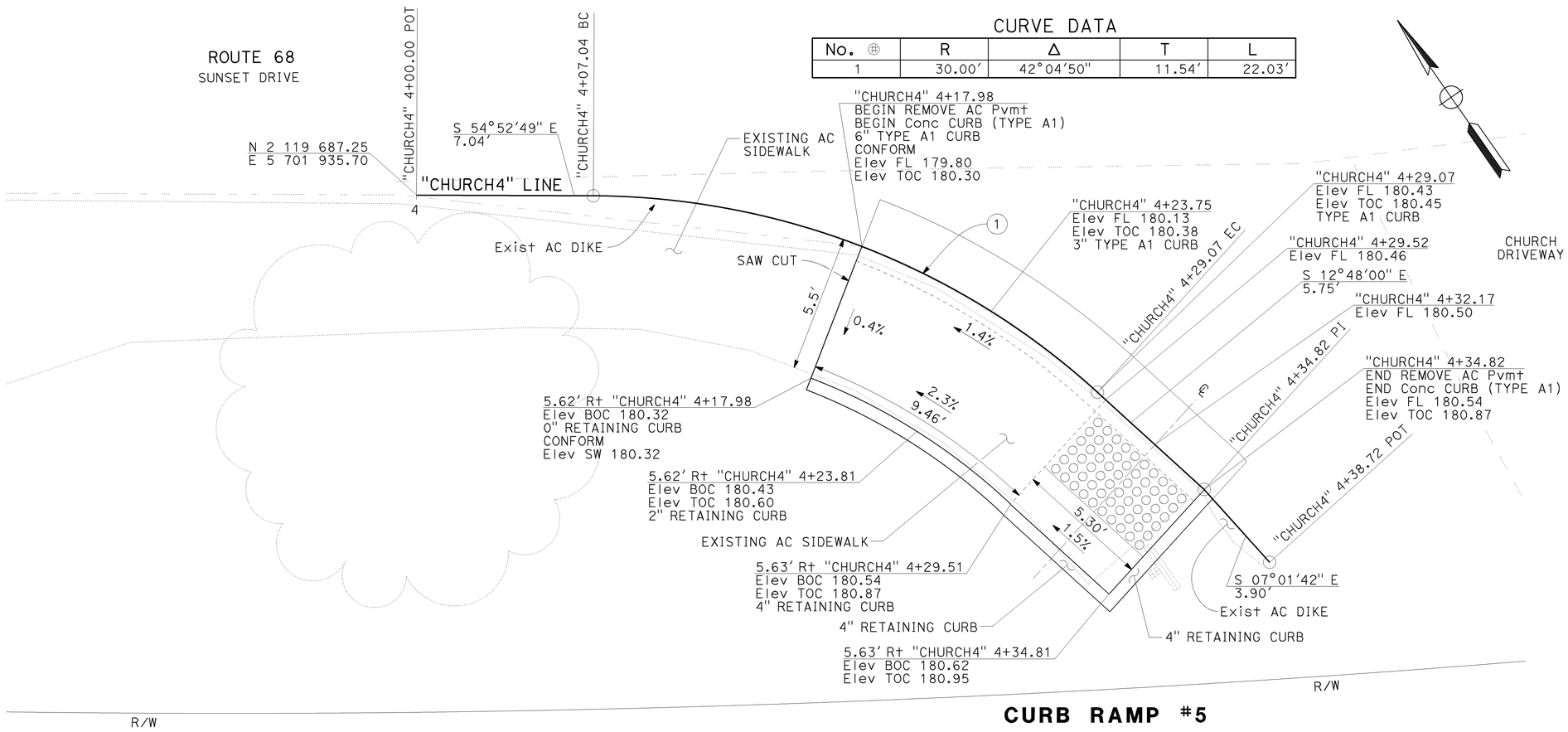
REGISTERED CIVIL ENGINEER 10-5-15 DATE

PLANS APPROVAL DATE 10-5-15

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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

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



CURVE DATA

No. ⊕	R	Δ	T	L
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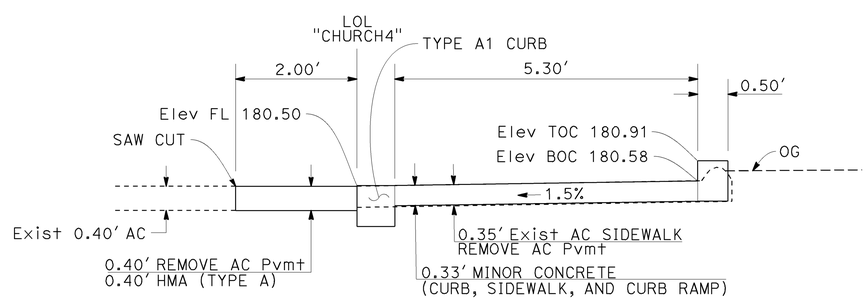
CURB RAMP #5
(MODIFIED CASE C)



CENTERLINE OF CURB RAMP

CONSTRUCTION DETAILS

NO SCALE

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	11	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

PLANS APPROVAL DATE 10-5-15

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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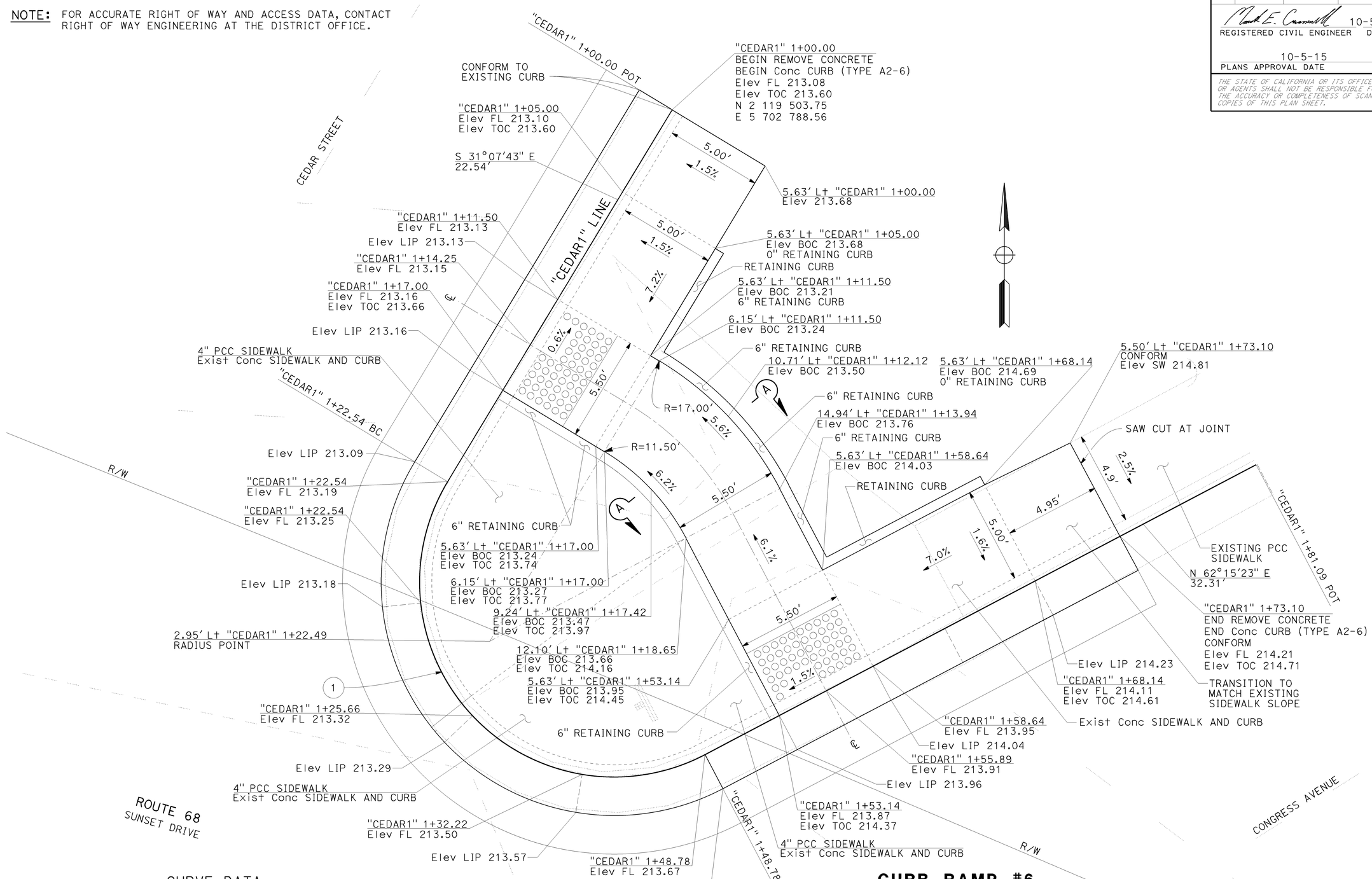
NOTE: FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURVE DATA

No.	R	Δ	T	L
1	10.10'	148°52'20"	36.26'	26.24'

CURB RAMP #6
(MODIFIED CASE C)

CONSTRUCTION DETAILS

NO SCALE

C-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN

REVISED BY
DATE REVISED

LAST REVISION: DATE PLOTTED => 08-OCT-2015
10-05-15 TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	12	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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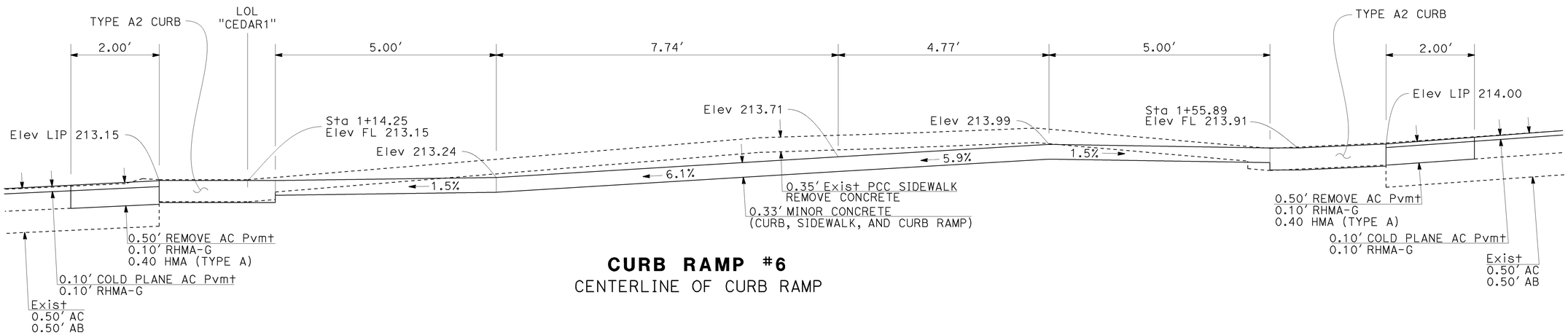
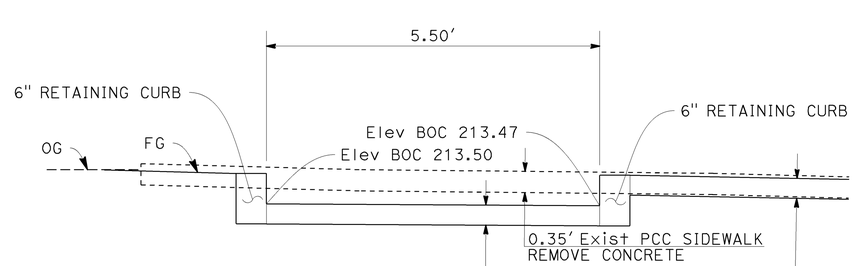


CURB RAMP #6
CENTERLINE OF CURB RAMP



CURB RAMP #6
SECTION A-A

CONSTRUCTION DETAILS

NO SCALE

C-7

REVISED BY | DATE REVISED
MARK CRESSWELL | KELLY J. McCLAIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
KELLY J. McCLAIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

LAST REVISION 10-05-15 | DATE PLOTTED => 08-OCT-2015 | TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	13	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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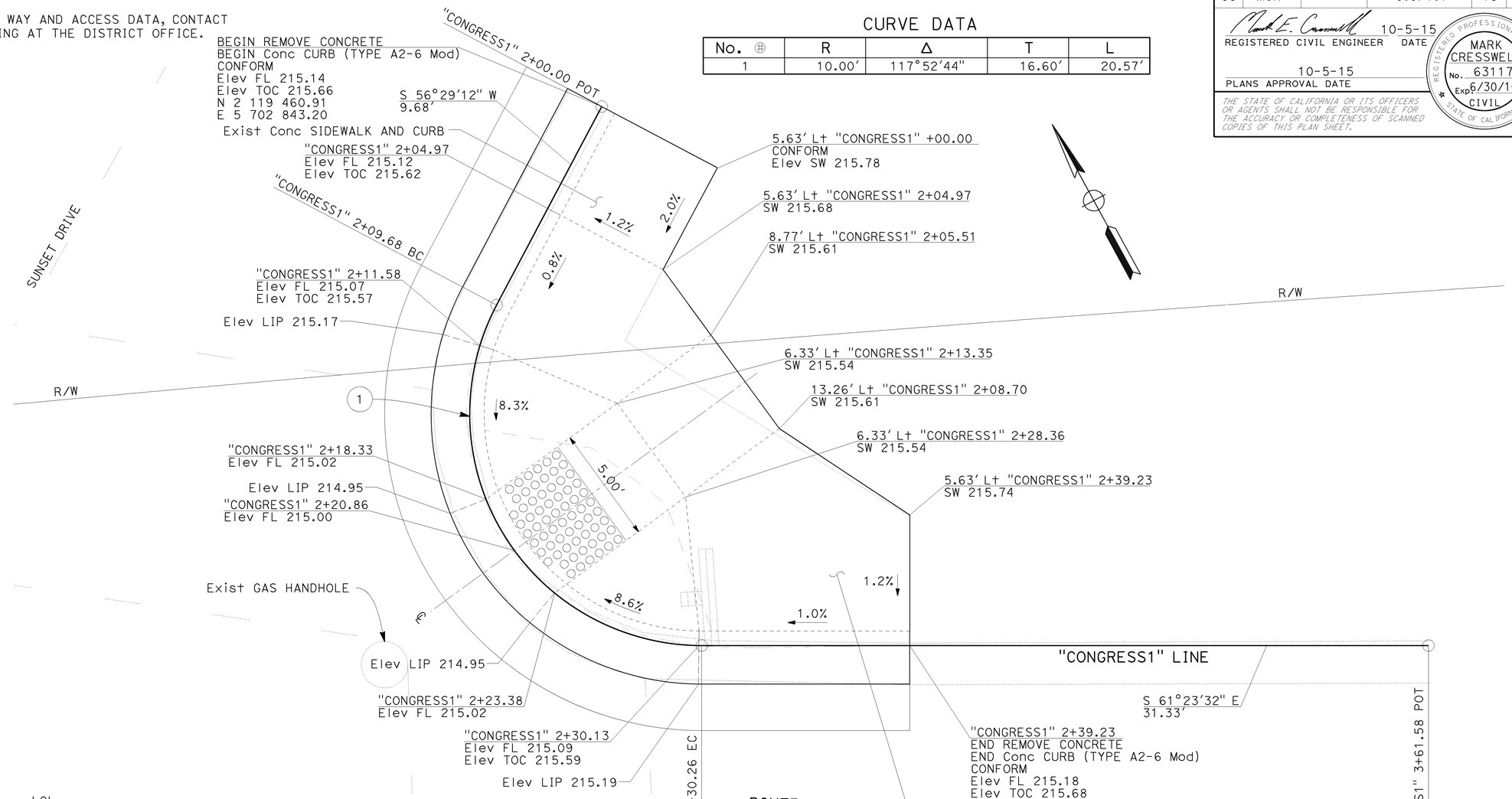
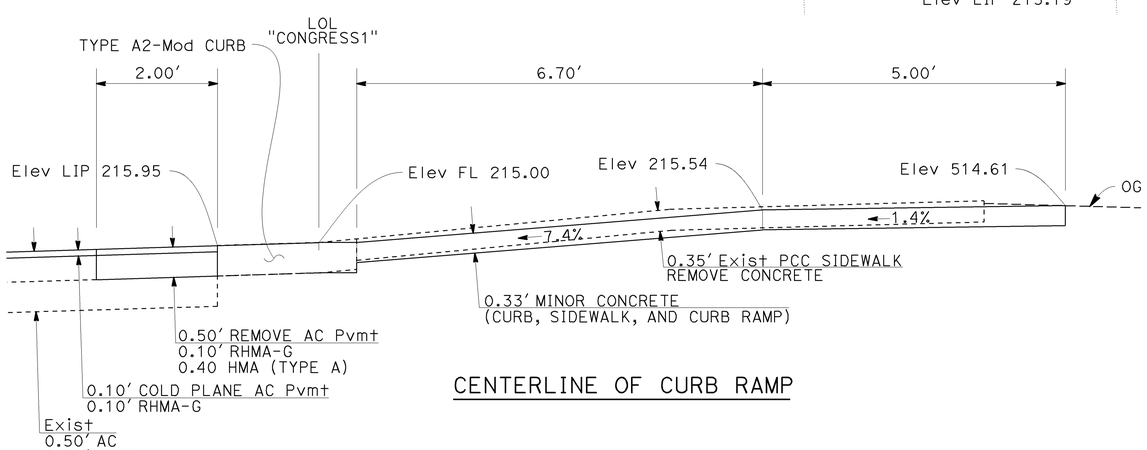
NOTE: FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. ⊕	R	Δ	T	L
1	10.00′	117°52′44″	16.60′	20.57′



CURB RAMP #7
(CASE A)



CENTERLINE OF CURB RAMP

CONSTRUCTION DETAILS

NO SCALE

C-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	14	37

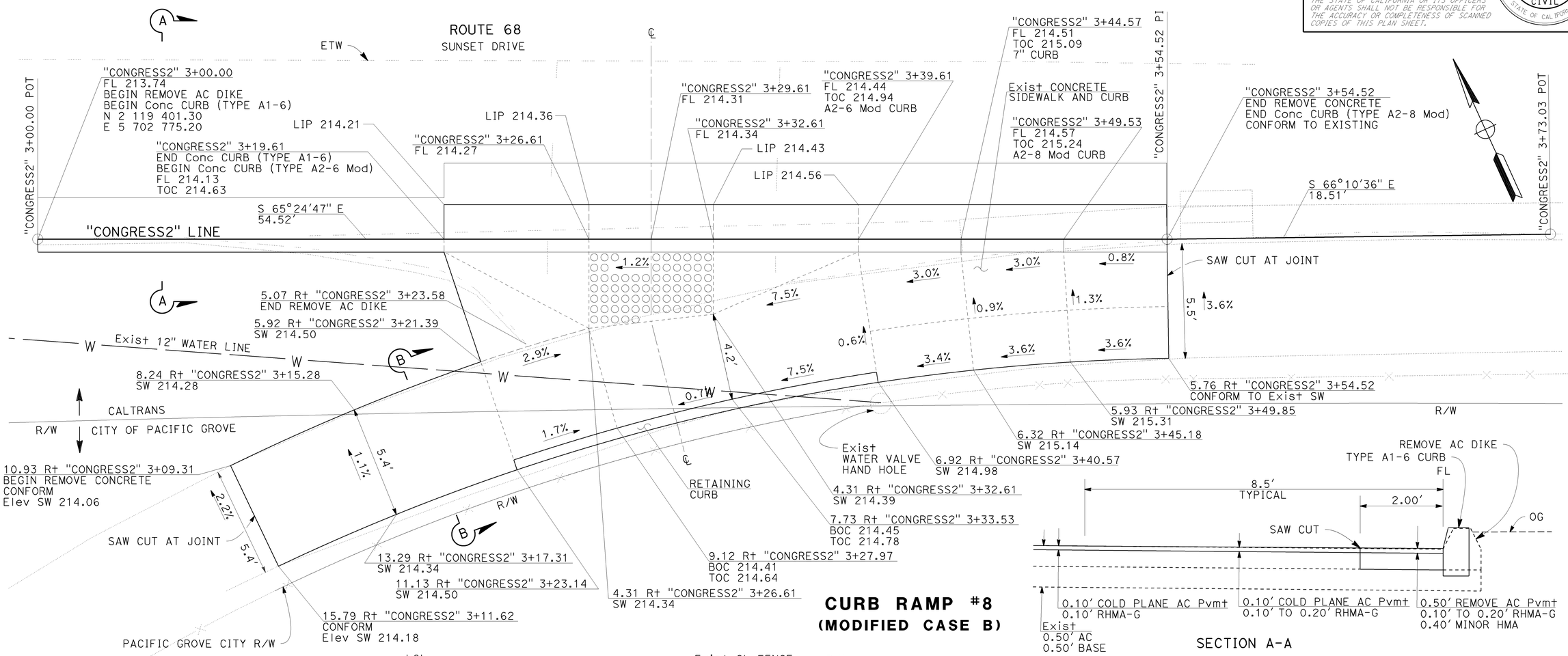
REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

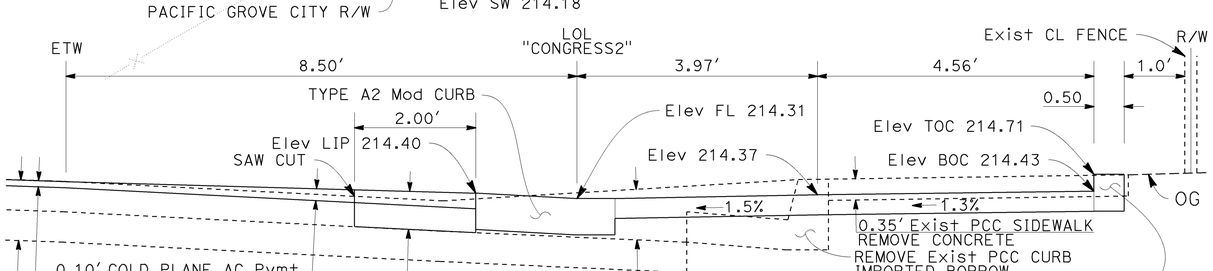
REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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

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

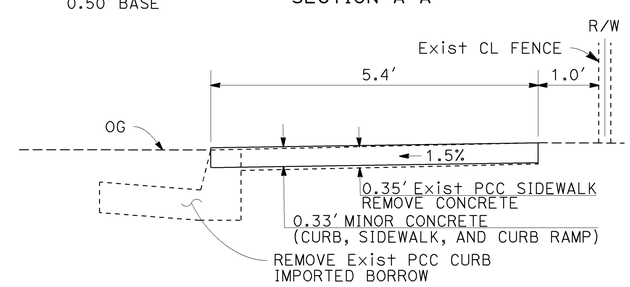


CURB RAMP #8
(MODIFIED CASE B)



CENTERLINE OF CURB RAMP

SECTION A-A



SECTION B-B

CONSTRUCTION DETAILS

NO SCALE

C-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	15	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

PLANS APPROVAL DATE 10-5-15

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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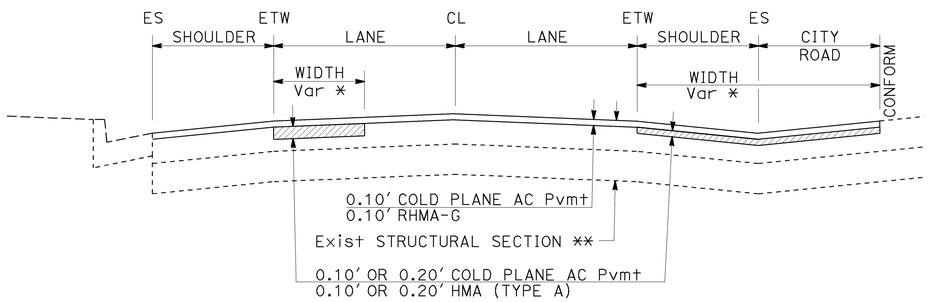
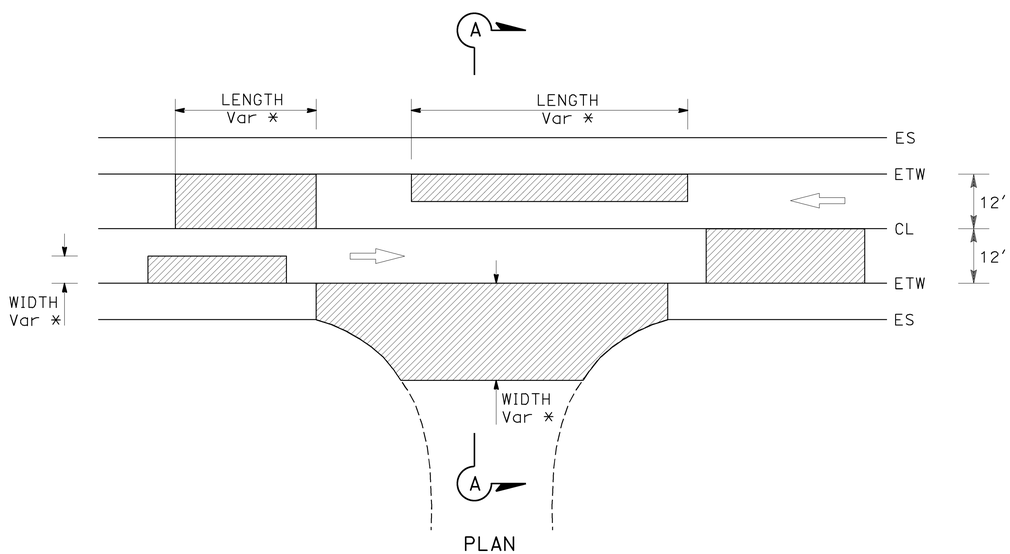
LEGEND:

REPAIR FAILED AREAS



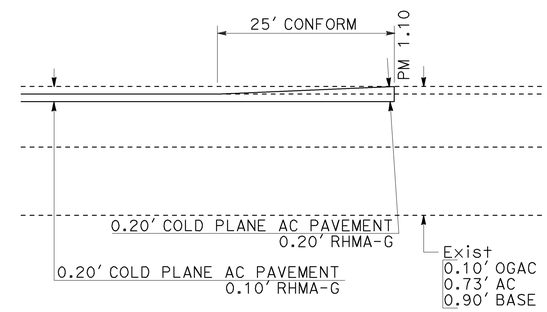
SECTION A-A



PLAN

* = SEE LAYOUTS AND QUANTITY SHEETS FOR DIMENSIONS
** = SEE TYPICAL CROSS SECTIONS SHEETS FOR DETAILS

REPAIR FAILED AREAS



LONGITUDINAL CONFORM AT PM 1.10

CONSTRUCTION DETAILS

NO SCALE

C-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN

REVISED BY | DATE REVISED

LAST REVISION 10-05-15 | DATE PLOTTED => 08-OCT-2015 | TIME PLOTTED => 13:19

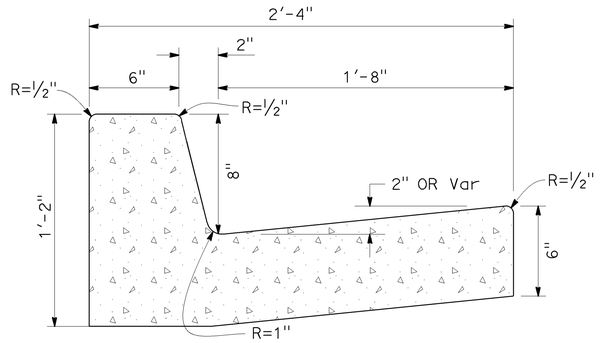
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	16	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

PLANS APPROVAL DATE 10-5-15

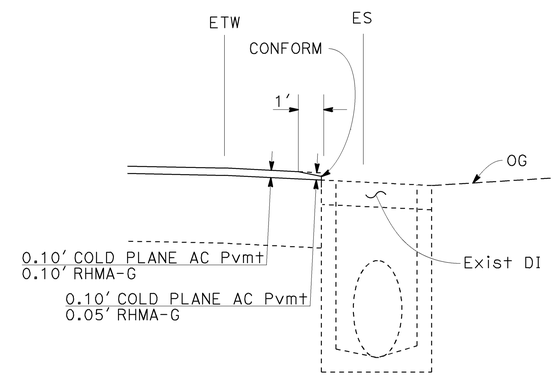
REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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

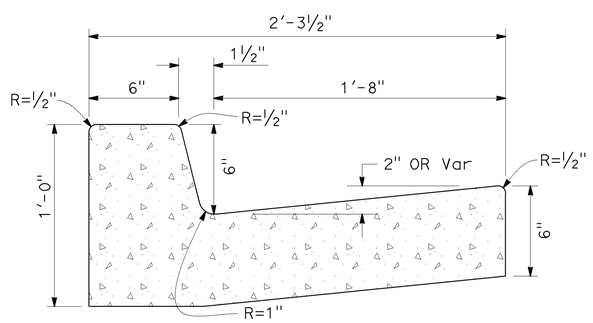


TYPE A2-8 MODIFIED CURB

Vol = 0.058 CY/LF

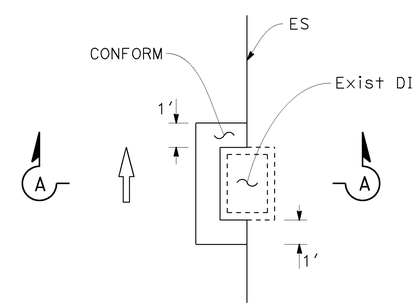


SECTION A-A



TYPE A2-6 MODIFIED CURB

Vol = 0.053 CY/LF



DRAINAGE INLET CONFORM PLAN

PM 0.05 Lt
PM 0.11 Lt
PM 0.18 Lt

CONFORM ALL THE WAY AROUND DI AT PM 0.18 Lt

CONSTRUCTION DETAILS

NO SCALE

C-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN

REVISED BY | DATE REVISED

LAST REVISION 10-05-15 | DATE PLOTTED => 08-OCT-2015 | TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	17	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

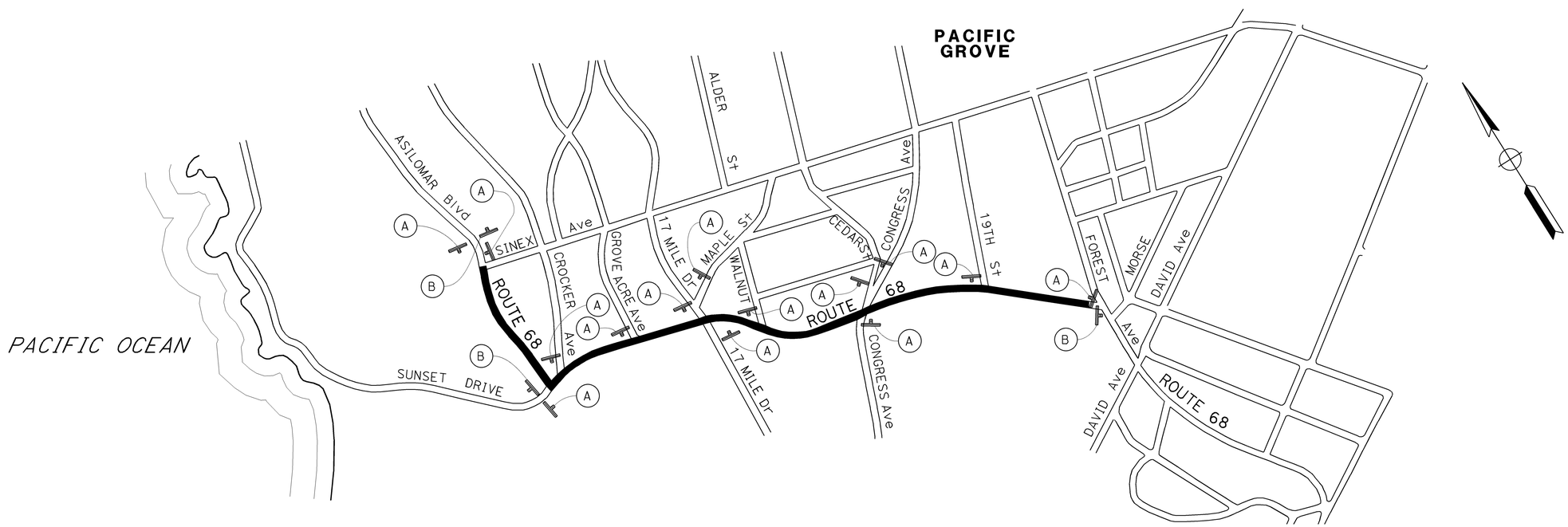
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:
SEE MOTORIST INFORMATION PLAN SHEETS FOR ADDITIONAL CONSTRUCTION AREA SIGNS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	14
B	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	3

NOTE: LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE.
EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	18	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

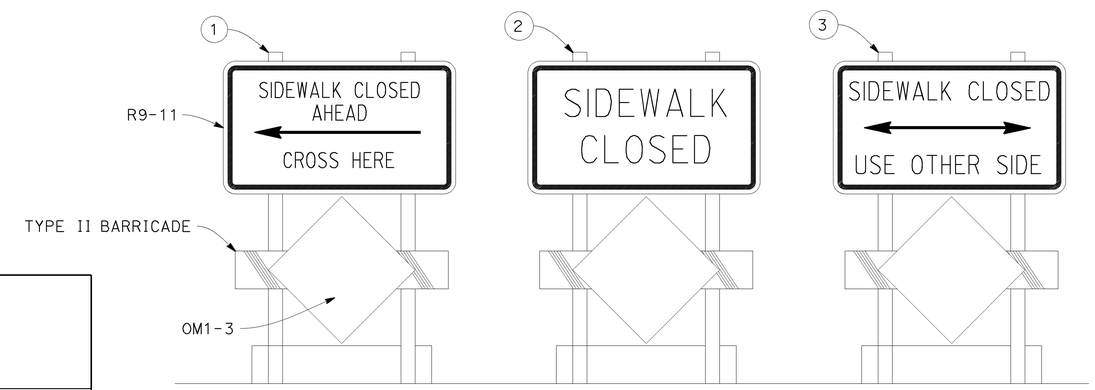
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. SIGN (1) IS TO BE PLACED AT THE INTERSECTION PRIOR TO THE CURB RAMP CONSTRUCTION LOCATION, NEXT TO THE SIDEWALK BEING WORKED ON. SEE NOTE 3 IF NO PRIOR INTERSECTION EXISTS.
2. SIGN (2) IS TO BE PLACED ON THE SIDEWALK AT THE DRIVEWAY PRIOR TO THE CURB RAMP CONSTRUCTION LOCATION.
3. SIGN (3) IS TO BE PLACED AT THE ADJACENT CROSSWALKED ENTRANCE TO THE CURB RAMP CONSTRUCTION LOCATION, WHEN ROOM EXISTS.
4. SEE CHAPTER 6H OF THE MUTCD FOR ADDITIONAL DETAILS ON ACCOMMODATING BICYCLES AND PEDESTRIANS THROUGH THE TEMPORARY TRAFFIC CONTROL ZONES.

CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
1	R9-11		24" X 12"	SIDEWALK CLOSED AHEAD CROSS HERE	BARRICADE MOUNTED	2
		OM1-3	18"X18"	YELLOW		
2	R9-9		24" X 12"	SIDEWALK CLOSED	BARRICADE MOUNTED	13
		OM1-3	18"X18"	YELLOW		
3	R9-10		24" X 12"	SIDEWALK CLOSED USE OTHER SIDE	BARRICADE MOUNTED	6
		OM1-3	18"X18"	YELLOW		



DETAIL A

TYPE II BARRICADE AND SIGNS

CURB RAMP LOCATION	TYPE II BARRICADE	(N) SIGN (1)	(N) SIGN (2)	(N) SIGN (3)	NOTES
	EA	EA	EA	EA	
#1	2		2		PLACE SIGNS AT CONSTRUCTION LOCATION
#2	3		2	1	
#3	2		2		
#4	2		2		
#5	2		2		
#6	4	1	1	2	PLACE (2) AND (3) SIGNS AT CONSTRUCTION LOCATION
#7	2			2	
#8	4	1	2	1	PLACE 1 (2) SIGN AT CONSTRUCTION LOCATION
SUBTOTAL	21	2	13	6	

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

MOTORIST INFORMATION PLAN

(PEDESTRIAN AND BICYCLE INFORMATION PLAN)

MI-1

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN

REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	19	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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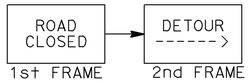
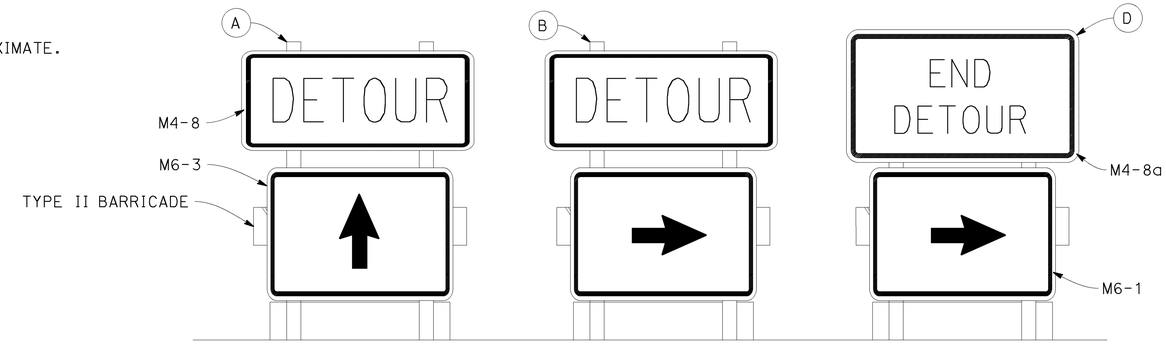
NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. DURING THE SUNSET Dr WESTBOUND CLOSURE, THE PCMS MESSAGE AT [A] SHOULD READ...

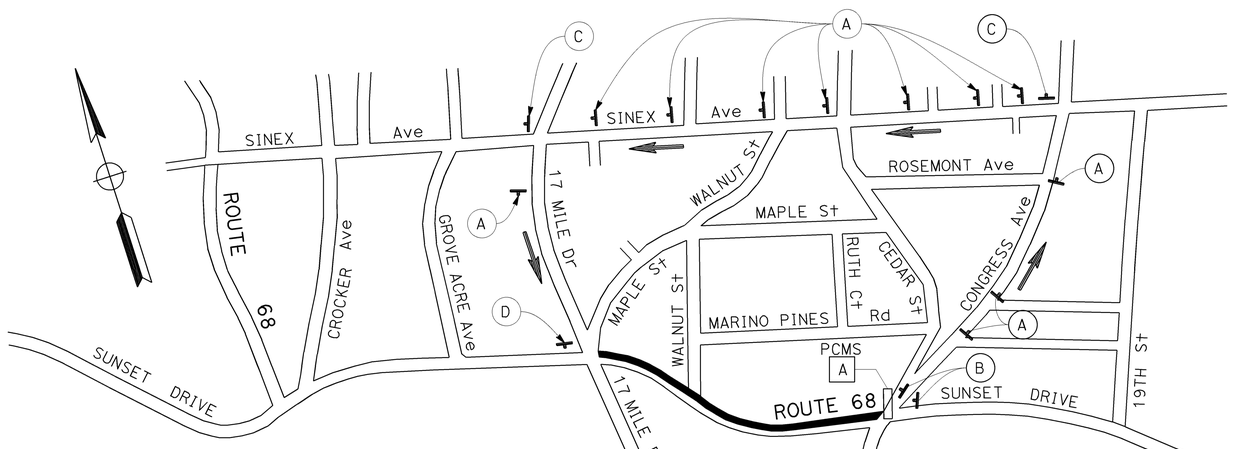




DETAIL A

CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	TYPE II BARRICADE	NUMBER OF SIGNS
A	M4-8		24" x 12"	DETOUR	BARRICADE MOUNTED	23	23
	M6-3		21" x 15"	UP ARROW			
B	M4-8		24" x 12"	DETOUR	BARRICADE MOUNTED	5	5
	M6-1		21" x 15"	RIGHT ARROW			
C	M4-8		24" x 12"	DETOUR	BARRICADE MOUNTED	6	6
	M6-1		21" x 15"	LEFT ARROW			
D	M4-8a		24" x 18"	END DETOUR	BARRICADE MOUNTED	2	2
	M6-1		21" x 15"	RIGHT ARROW			
E	M4-8a		24" x 18"	END DETOUR	BARRICADE MOUNTED	1	1
	M6-1		21" x 15"	LEFT ARROW			
F		Mod SC6-4(CA)	48" x 60"	ROAD CLOSED...	1 - 4" x 4"		2
					SUBTOTAL	37	



SUNSET DRIVE WESTBOUND CLOSURE

SUNSET DRIVE WESTBOUND CLOSURE DETOUR SIGN SUMMARY

SIGN No. (X)	SIGN MESSAGE	QUANTITY
(A)	DETOUR, UP ARROW	11
(B)	DETOUR, RIGHT ARROW	2
(C)	DETOUR, LEFT ARROW	2
(D)	END DETOUR, RIGHT ARROW	1
PCMS [A]	(SEE NOTES)	1

MOTORIST INFORMATION PLAN

NO SCALE

MI-2

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
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05	Mon	68	0.0/1.1	20	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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NOTES:

1. DURING THE SUNSET Dr EASTBOUND CLOSURE, THE PCMS MESSAGE AT [B] SHOULD READ...

ROAD CLOSED	→	DETOUR <------
1st FRAME		2nd FRAME

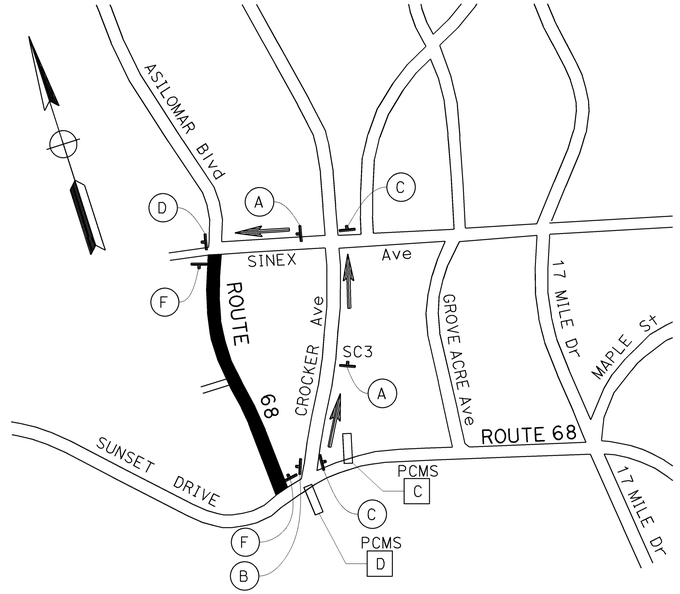
2. DURING THE ASILOMAR Blvd FULL CLOSURE, THE PCMS MESSAGE AT [C] SHOULD READ...

ASILOMAR BLVD CLOSED	→	DETOUR ------>
1st FRAME		2nd FRAME

THE PCMS MESSAGE AT [D] SHOULD READ...

ASILOMAR BLVD CLOSED	→	DETOUR <------
1st FRAME		2nd FRAME

3. MODIFIED SC6-4 (CA) SIGNS TO BE PLACED AT LEAST 5 DAYS PRIOR TO ASILOMAR Blvd CLOSURES, INDICATING THE DATES AND TIMES OF THE PROPOSED CLOSURES.



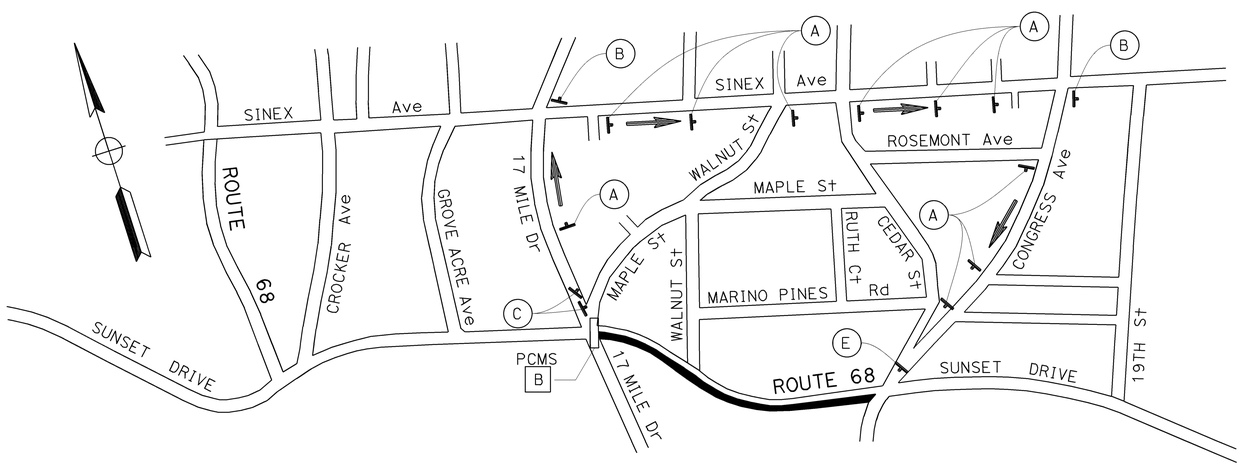
ASILOMAR Blvd FULL CLOSURE

ASILOMAR Blvd FULL CLOSURE DETOUR SIGN SUMMARY

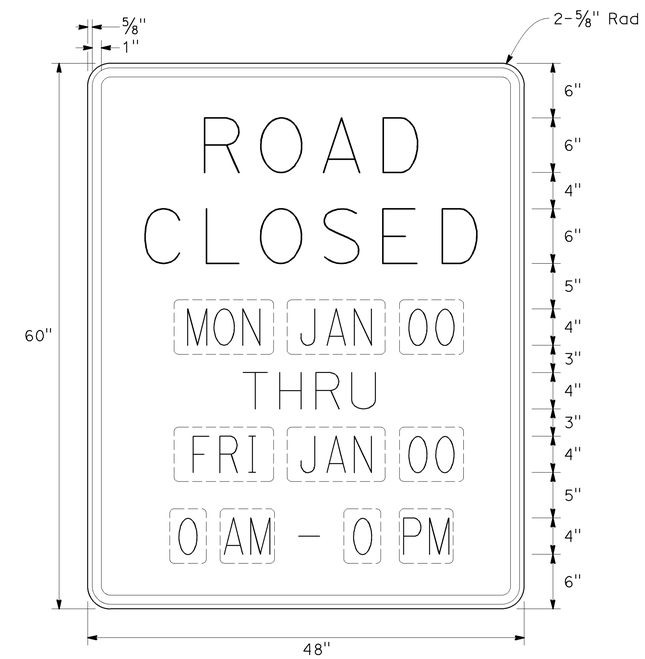
SIGN No. (X)	SIGN MESSAGE	QUANTITY
(A)	DETOUR, UP ARROW	2
(B)	DETOUR, RIGHT ARROW	1
(C)	DETOUR, LEFT ARROW	2
(D)	END DETOUR, RIGHT ARROW	1
(F)	ROAD CLOSED...	2
PCMS [C], [D]	(SEE NOTES)	2

SUNSET DRIVE EASTBOUND CLOSURE DETOUR SIGN SUMMARY

SIGN No. (X)	SIGN MESSAGE	QUANTITY
(A)	DETOUR, UP ARROW	10
(B)	DETOUR, RIGHT ARROW	2
(C)	DETOUR, LEFT ARROW	2
(E)	END DETOUR, LEFT ARROW	1
PCMS [B]	(SEE NOTES)	1



SUNSET DRIVE EASTBOUND CLOSURE



MODIFIED SC6-4 (CA) SIGN

MOTORIST INFORMATION PLAN

NO SCALE

MI-3

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

MARK CRESSWELL | KELLY J. McCLAIN | REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

LAST REVISION 10-05-15 | DATE PLOTTED => 08-OCT-2015 | TIME PLOTTED => 13:19

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05	Mon	68	0.0/1.1	21	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

PLANS APPROVAL DATE 10-5-15

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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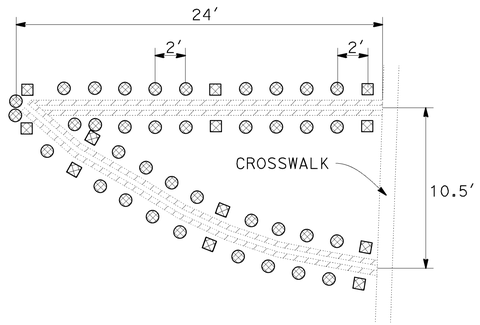
LEGEND:

4" YELLOW THERMOPLASTIC TRAFFIC STRIPE

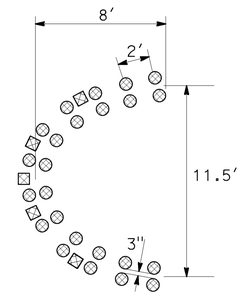
TYPE D TWO-WAY YELLOW RETROREFLECTIVE Pvmt Mkr

TYPE AY YELLOW NON-REFLECTIVE Pvmt Mkr



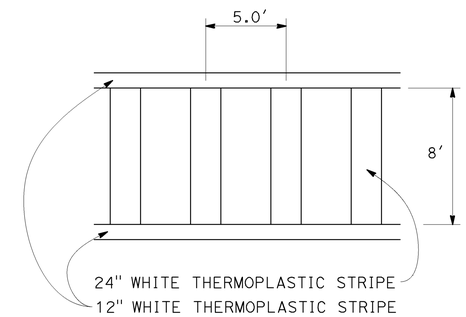
PM 0.81

MEDIAN CAP 1

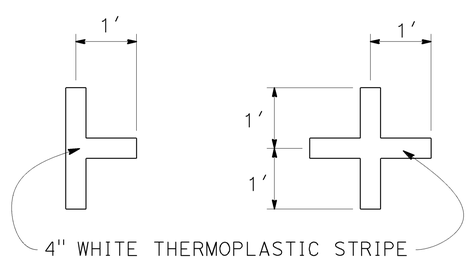


PM 0.97
PM 0.98

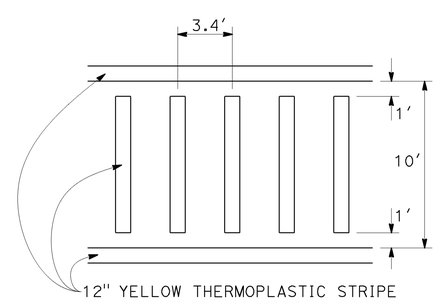
MEDIAN CAP 2



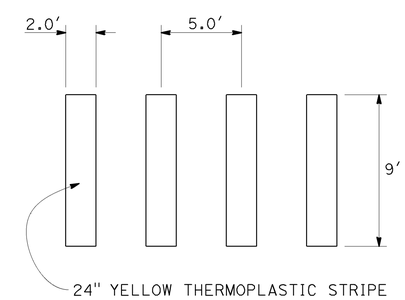
WHITE STRIPED CROSSWALK



PARKING SPACE MARKING



YELLOW STRIPED CROSSWALK



YELLOW STRIPE-ONLY CROSSWALK

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN

REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 13:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	22	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATOIN QUANTITIES

LOCATION (PM) FROM	LOCATION (PM) TO	DETAIL No.	4" THERMOPLASTIC TRAFFIC STRIPE WHITE SOLID	4" THERMOPLASTIC TRAFFIC STRIPE YELLOW SOLID	4" THERMOPLASTIC TRAFFIC STRIPE WHITE (BROKEN 8-4)	4" THERMOPLASTIC TRAFFIC STRIPE YELLOW (BROKEN 36-12)	6" THERMOPLASTIC TRAFFIC STRIPE	8" THERMOPLASTIC TRAFFIC STRIPE	PAVEMENT MARKER (RETRO-REFLECTIVE) TYPE D	PAVEMENT MARKER (RETRO-REFLECTIVE) TYPE G	PAVEMENT MARKER (NON-REFLECTIVE) TYPE AY	CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE)	COMMENTS
			LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	
0.01	0.20	22		2,260					98				
0.20	0.48	39					4,550						BOTH SIDES
0.20	0.48	39A			400								BOTH SIDES
0.20	0.48	22		2,360					102				
0.46		N/A										4	EB SHOULDER, WHITE
0.48	0.80	27B	3,040										BOTH SIDES
0.48	0.80	22		3,120					132				
0.81		MEDIAN CAP 1		100					12		38		
0.81	0.83	29		360					10				
0.83	0.92	32		920		920			54				
0.92	0.96	22		400					20				
0.92	0.96	38						190		9			EB L† TURN
0.98	1.10	27B	660										WB FOG LINE
0.98	1.01	38						170		9			WB R† TURN
0.97		MEDIAN CAP 2							5		24		
0.97	0.98	29		160					6				
0.98		MEDIAN CAP 2							5		24		
0.98	1.01	32		220		220			18				
1.01	1.05	38						180		9			WB L† TURN
1.01	1.10	22		960					42				
1.06	1.10	38						230		11			EB L† TURN
		SUBTOTAL	3,700	10,860	400	1,140	4,550	770	504	38	86	4	
		TOTAL	14,560		400	1,140	4,550	770	542		86	4	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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REVISED BY
DATE REVISED

PAVEMENT DELINEATION QUANTITIES
PDQ-1

LAST REVISION 10-05-15
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	23	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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THERMOPLASTIC PAVEMENT MARKINGS

LOCATION (PM)		PAVEMENT MARKING	THERMOPLASTIC PAVEMENT MARKING			COMMENTS
			WHITE	YELLOW	BLUE	
FROM	TO		SQFT	SQFT	SQFT	
0.01		WHITE CROSSWALK	60			1 CROSSWALK
0.02	0.87	"STOP"	264			12 MARKINGS
0.20	0.96	LIMIT LINE	218			9 STOP BARS
0.20	0.47	BIKE LANE SYMBOL WITH PERSON	70			10 MARKINGS
0.47	0.49	WHITE STRIPED CROSSWALKS	1,365			5 CROSSWALKS
0.72	0.86	"AHEAD"	62			2 MARKINGS
0.80	0.81	YELLOW STRIPED CROSSWALK		270		2 CROSSWALKS
0.82		YELLOW CROSSWALK		112		1 CROSSWALK
0.82	0.99	YELLOW HATCHING		180		2 LOCATIONS
0.82	1.10	PARKING SPACE MARKINGS	61			2 LOCATIONS
0.83	1.05	TYPE IV (L) ARROWS	180			12 MARKINGS
0.98	1.01	TYPE IV (R) ARROWS	30			2 MARKINGS
0.88	1.05	"SLOW"		46		2 MARKINGS
0.89	1.04	"SCHOOL"		70		2 MARKINGS
0.90	1.03	"XING"		42		2 MARKINGS
0.98		YELLOW STRIPE-ONLY CROSSWALK		216		1 CROSSWALK
1.08		INTERNATIONAL SYMBOL OF ACCESSABILITY (ISA) MARKING	18		28	2 MARKINGS
		SUBTOTAL	2,328	936	28	
		TOTAL	3,292			

PAINT CURB (2-COAT)

LOCATION (PM)		SIDE	(N) RED	(N) WHITE	PAINT CURB (2-COAT)
FROM	TO	EB/WB	LF	LF	SQFT
0.26	0.27	WB	50		50
0.30	0.31	WB	50		50
0.41	0.42	WB	50		50
0.45	0.46	WB	50		50
0.47	0.49	EB		110	110
0.80	0.81	EB	50		50
1.05	1.10	WB	260		260
				TOTAL	620

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

PAVEMENT DELINEATION QUANTITIES

PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
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DATE REVISED

LAST REVISION 10-05-15 | DATE PLOTTED => 08-OCT-2015 | TIME PLOTTED => 13:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	24	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

PLANS APPROVAL DATE 10-5-15

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/16 CIVIL STATE OF CALIFORNIA

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PAVEMENT STRUCTURE SUMMARY

LOCATION	COLD PLANE AC PAVEMENT	TACK COAT	HOT MIX ASPHALT (TYPE A)	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
	SQYD	TON	TON	TON
MAINLINE PAVEMENT QUANTITIES	29,470	9.86		1,926.0
INTERSECTION PAVEMENT QUANTITIES	801	0.51		86.9
REPAIR FAILED AREAS	1,394	0.50	155.0	
SIDEWALK AND CURB RAMPS	9		20.0	
TOTAL	31,674	10.87	175.0	2,012.9

MAINLINE PAVEMENT QUANTITIES

POST MILE		(N) ROADWAY WIDTH	COLD PLANE AC PAVEMENT	TACK COAT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
FROM	TO	FT	SQYD	TON	TON
0.00	0.20	24	2,830	0.95	185
0.20	0.31	55	3,610	1.21	236
0.31	0.36	59	1,770	0.59	116
0.36	0.45	60	3,200	1.07	209
0.45	0.49	49	1,200	0.40	79
0.49	0.54	38	1,140	0.38	75
0.54	0.66	39.5	2,810	0.94	184
0.66	0.69	37	660	0.22	43
0.69	0.79	40	2,360	0.79	154
0.79	0.82	56	1,000	0.34	65
0.82	0.96	48	3,950	1.32	258
0.96	1.10	60	4,940	1.65	322
		TOTAL	29,470 *	9.86 *	1,926 *

(N) NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.
* QUANTITY INCLUDED IN PAVEMENT STRUCTURE SUMMARY.

INTERSECTION PAVEMENT QUANTITIES

POST MILE	SIDE	COLD PLANE AC PAVEMENT	TACK COAT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	NOTES
	EB/WB	SQYD	TON	TON	
0.00	WB	20	0.01	1.4	SINEX Ave
0.01	EB	45	0.02	2.9	ASILOMAR ENTRANCE
0.11	EB	50	0.02	3.3	UNNAMED ASILOMAR ROAD
0.17	WB	20	0.01	1.4	ASILOMARY PARKING LOT
0.23	WB	95	0.04	6.2	CROCKER Ave
0.36	WB	39	0.02	2.6	GROVE ACRE Ave
0.48	WB	275	0.10	18.0	17-MILE DRIVE/MAPLE St
0.48	EB	**	0.04	6.2	17-MILE DRIVE
0.50	EB	27	0.01	1.8	17-MILE DRIVE EB BRANCH
0.59	WB	**	0.09	16.4	WALNUT St
0.80	WB	124	0.05	8.1	CEDAR St
0.80	WB	**	0.06	11.7	CONGRESS Ave
0.80	EB	106	0.04	6.9	CONGRESS Ave
TOTAL		801*	0.51*	86.9*	

* QUANTITY INCLUDED IN PAVEMENT STRUCTURE SUMMARY.
** COLD PLANE AC Pvmt ACCOUNTED FOR IN REPAIR FAILED AREAS TABLE

REPAIR FAILED AREAS

POST MILE		DIRECTION	LENGTH	WIDTH	COLD PLANE AC PAVEMENT		TACK COAT	HOT MIX ASPHALT (TYPE A)	COMMENTS
					0.10′	0.20′			
FROM	TO		FT	FT	SQYD	SQYD	TON	TON	
0.01	0.02	WB	60	12.0	80		0.03	6.0	FULL LANE
0.01	0.02	EB	170	6.0	120		0.04	8.5	RIGHT WHEEL PATH
0.21	0.22	EB	70	6.0	50		0.02	3.5	RIGHT WHEEL PATH
0.39	0.47	EB	430	12.0		580	0.20	85.2	FULL LANE
0.45	0.46	EB	50	7.0		40	0.02	5.8	BIKE LANE
0.48		EB		16.0		95	0.04	14.1	17-MILE DRIVE
0.59		WB		31.3	250		0.09	18.6	WALNUT St
0.81		WB			179		0.06	13.3	CONGRESS Ave
				TOTAL	1,394		0.50	155.0	

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 10-05-15
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 13:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	25	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
PLANS APPROVAL DATE

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SANITARY SEWER MANHOLES TO REMAIN

POST MILE	SIDE	MANHOLE TO REMAIN (N)	NOTES
	EB/WB	EA	
0.00	WB	1	IN SINEX Ave INTERSECTION
0.03	EB/WB	1	
0.05	WB	1	
0.22	EB	1	IN LANE AND BIKE LANE
0.22	EB	1	IN BIKE LANE
0.32	EB	1	IN LANE AND BIKE LANE
0.34	EB	1	IN LANE AND BIKE LANE
0.36	WB	1	AT GROVE ACRE Ave INTERSECTION IN BIKE LANE
0.42	WB	1	IN SHOULDER
0.48	WB	1	IN 17-MILE DRIVE INTERSECTION
0.53	WB	1	
0.59	WB	1	AT WALNUT St INTERSECTION
0.64	WB	1	
0.69	WB	1	AT APARTMENT DRIVEWAY
0.76	WB	1	
0.81	WB	1	IN CONGRESS Ave INTERSECTION
0.86	WB	1	IN SHOULDER
0.92	WB	1	IN SHOULDER
0.97	WB	1	AT 19th St ISLAND
1.02	EB	1	
1.06	EB	1	
1.10	EB	1	
TOTAL		22	

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

SHOULDER BACKING

POST MILE		LENGTH (N)	WIDTH (N)	SHOULDER BACKING
FROM	TO	FT	FT	TON
0.01	0.03	85	8	7.4
0.03	0.05	120	8	10.5
0.06	0.07	100	8	8.7
0.08	0.09	65	8	5.7
0.09	0.10	45	8	4.0
0.11	0.13	150	8	13.1
0.15	0.19	240	6	15.7
			TOTAL	65.1

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

ASPHALTIC EMULSION (FOG SEAL COAT)

POST MILE		SIDE	LENGTH (N)	WIDTH (N)	ASPHALTIC EMULSION (FOG SEAL COAT)	NOTES
FROM	TO	EB/WB	LF	LF	TON	
0.24		WB	10	5	0.01	DRAINAGE APRON
0.24	0.26	WB	110	1	0.01	DIKE
0.28	0.30	WB	110	1	0.01	DIKE
0.39	0.41	WB	110	1	0.01	DIKE
0.42	0.45	WB	160	1	0.01	DIKE
0.45	0.46	WB	50	1	0.01	DIKE
0.45	0.47	EB	110	15	0.07	SIDEWALK, DRAINAGE APRON, DIKE
0.48	0.54	EB	320	1	0.02	DIKE
0.54	0.60	EB	320	7	0.09	DIKE AND 7' SIDEWALK
0.61	0.62	EB	50	7	0.02	DIKE AND 7' SIDEWALK
0.64	0.70	EB	320	1	0.02	DIKE
0.62	0.80	WB	950	1	0.04	DIKE
				TOTAL	0.31	

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

SUMMARY OF QUANTITIES
Q-2

REVISED BY | DATE REVISED
MARK CRESSWELL | KELLY J. McCLAIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

LAST REVISION 10-05-15 | DATE PLOTTED => 08-OCT-2015 | TIME PLOTTED => 13:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	26	37

REGISTERED CIVIL ENGINEER 10-5-15 DATE

10-5-15
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SIDEWALK AND CURB RAMPS

CURB RAMP No.	POST MILE	MINOR CONCRETE (CURB, SIDEWALK, AND CURB RAMP) CURB (TYPE A1-6)	CURB (TYPE A2-6)	CURB (TYPE A2-6 Mod)	CURB (TYPE A2-8 Mod)	CURB RAMP / SIDEWALK (DEPTH = 4")	CURB RAMP / SIDEWALK (DEPTH = 6")	RETAINING CURB	DETECTABLE WARNING SURFACE	HOT MIX ASPHALT (TYPE A)	IMPORTED BORROW (CY)	REMOVE CONCRETE CONCRETE CURB	CURB RAMP / SIDEWALK	REMOVE AC DIKE	REMOVE ASPHALT CONCRETE PAVEMENT SIDEWALK	FORMS	COLD PLANE AC PAVEMENT	PRE/POST CONSTRUCTION SURVEYS	COMMENTS
		CY	CY	CY	CY	CY	CY	CY	SQFT	TON	CY	CY	CY	LF	SQFT	SQFT	SQYD	EA	
1	0.00					0.69	0.70		20.5	0.7						19	9		SINEX AVE
2	0.36				1.80	3.09		0.50	15.0	2.1		1.80	3.46			62			GROVE ACRE Ave
3	0.60	0.52				1.12		0.18	15.9	1.5				15	95	44			CHURCH PARKING LOT
4	0.61	0.89				2.08		0.49	15.9	2.4				28	185	70		1	CHURCH PARKING LOT
5	0.63	0.45				0.98		0.25	15.9	1.2				12	75	36			CHURCH PARKING LOT
6	0.80		4.32			5.75		0.80	33.0	5.4		4.32	6.10			162			CEDAR St AND CONGRESS Ave
7	0.81			2.09		2.82			16.2	3.0		2.09	2.79			90			CONGRESS Ave
8	0.81	1.04		1.33	0.58	3.67		0.22	20.0	3.7	3.0	2.73	2.92	25	140	110			HIGH SCHOOL
TOTAL		36.36							152.4	20.0*	3.0	26.21		80	1,088		9	1	

* QUANTITIES INCLUDED IN PAVEMENT STRUCTURE SUMMARY.

RESET ROADSIDE SIGN (ONE POST)

POST MILE	SIDE	RESET ROADSIDE SIGN (ONE POST)	COMMENTS
	EB/WB	EA	
0.64	EB	1	CHURCH PARKING LOT
0.80	WB	1	STOP
0.81	WB	1	STOP
TOTAL		3	

SUMMARY OF QUANTITIES

Q-3

REVISED BY | DATE REVISED
MARK CRESSWELL | KELLY J. McCLAIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 10-05-15 | DATE PLOTTED => 20-OCT-2015 | TIME PLOTTED => 09:30

M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED,
	MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE,
	PRECAST
PCC	POINT OF COMPOUND CURVE,
	PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE,
	PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
ℙ,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE,
	TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE,
	PLASTIC PIPE,
	POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED,
	REINFORCEMENT,
	REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT,
	REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION,
	REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD,
	RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH,
	SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND,
	SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL,
	SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK,
	SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE,
	TRAFFIC SIGNAL,
	TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE,
	DESIGN SPEED
Var	VARIABLE,
	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST,
	WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	27	37

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 10-5-15

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	28	37

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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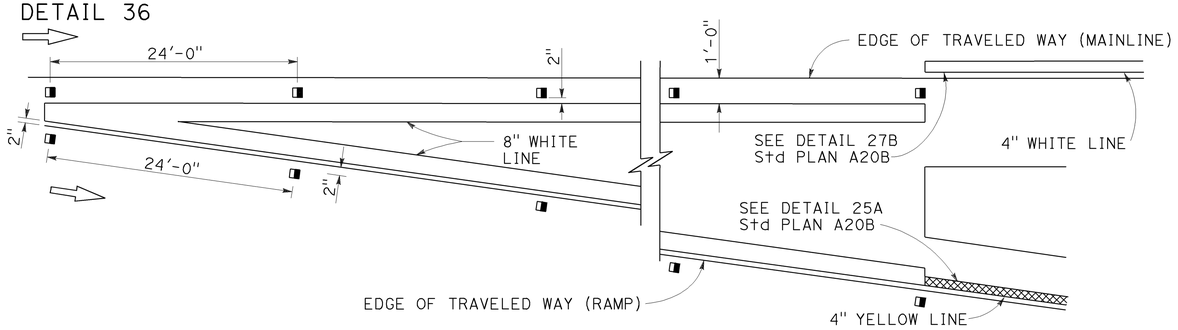
TO ACCOMPANY PLANS DATED 10-5-15

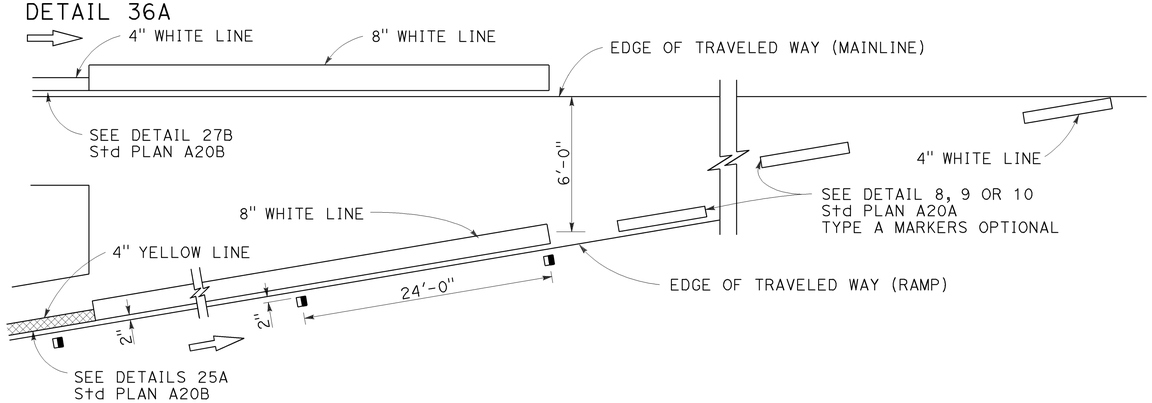
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



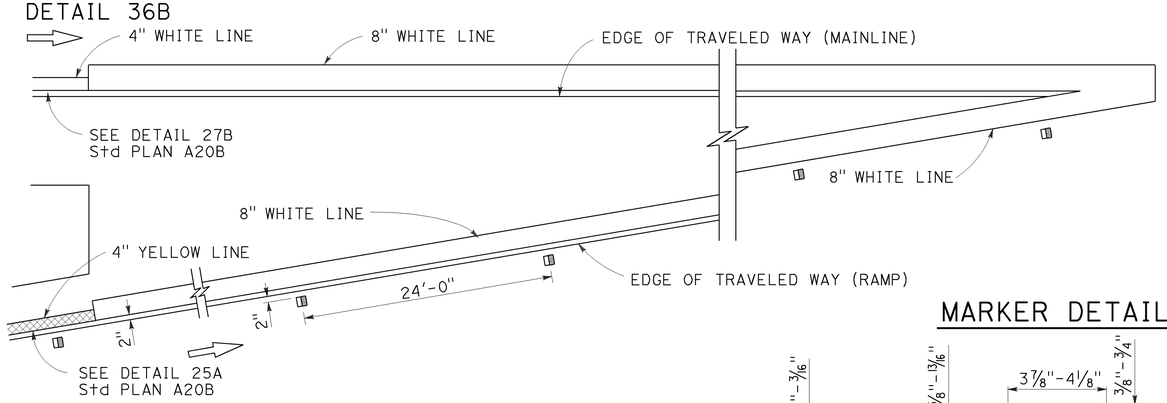
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A



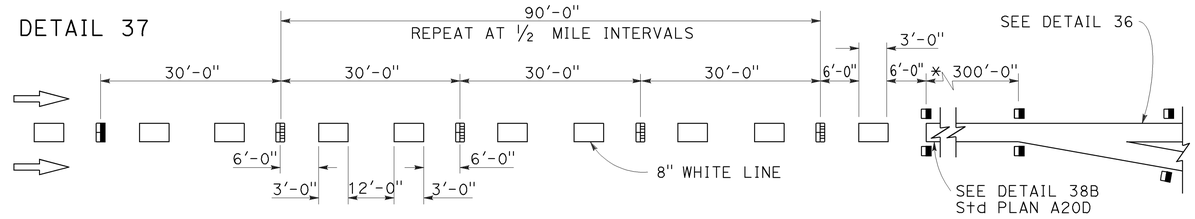
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B

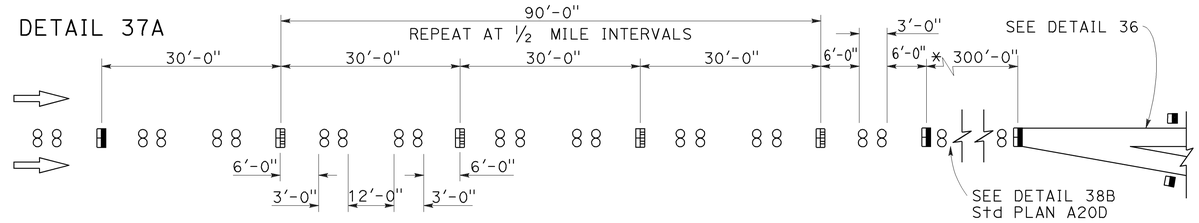


LANE DROP AT EXIT RAMPS

DETAIL 37



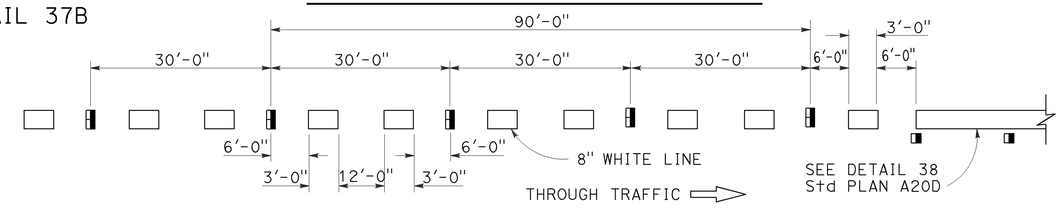
DETAIL 37A



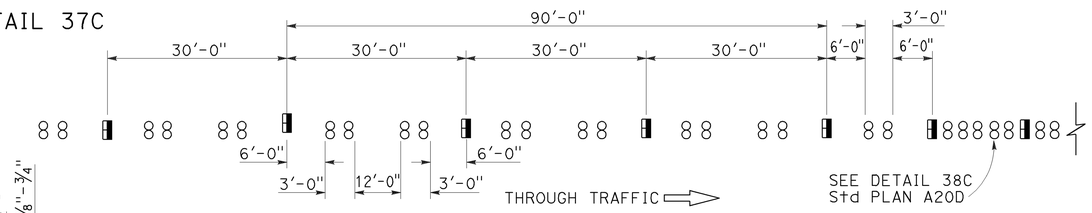
* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS

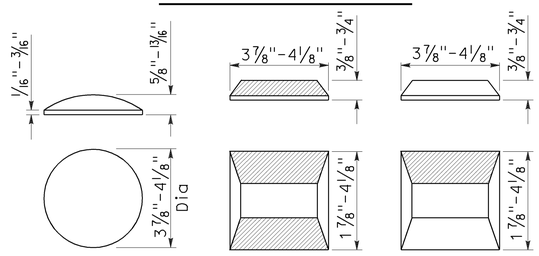
DETAIL 37B



DETAIL 37C



MARKER DETAILS



RETROREFLECTIVE FACE

LEGEND:

MARKERS

- ○ TYPE A WHITE NON-REFLECTIVE
- ⊟ TYPE C RED-CLEAR RETROREFLECTIVE
- ◨ TYPE G ONE-WAY CLEAR RETROREFLECTIVE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

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

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

4-29-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	29	37

REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

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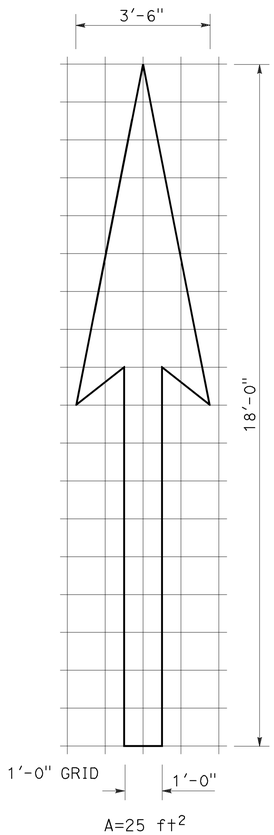
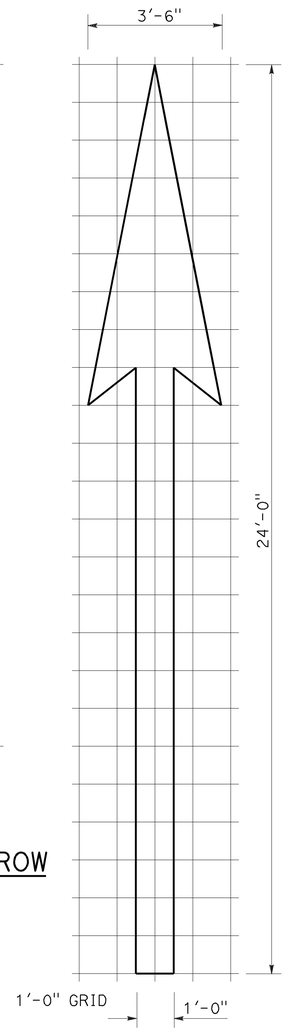
TO ACCOMPANY PLANS DATED 10-5-15



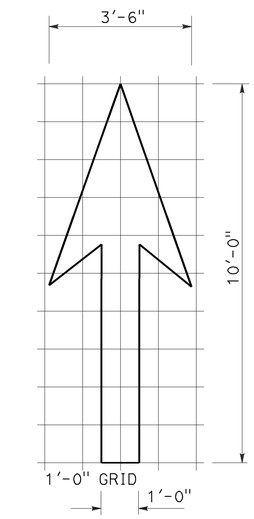
A=25 ft^2

TYPE I 18'-0" ARROW



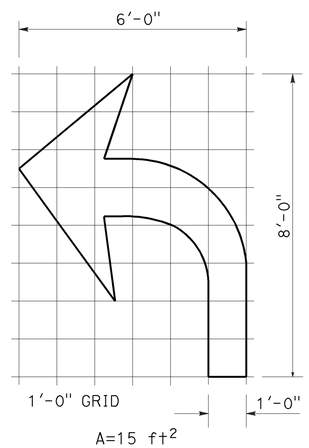
A=31 ft^2

TYPE I 24'-0" ARROW



A=14 ft^2

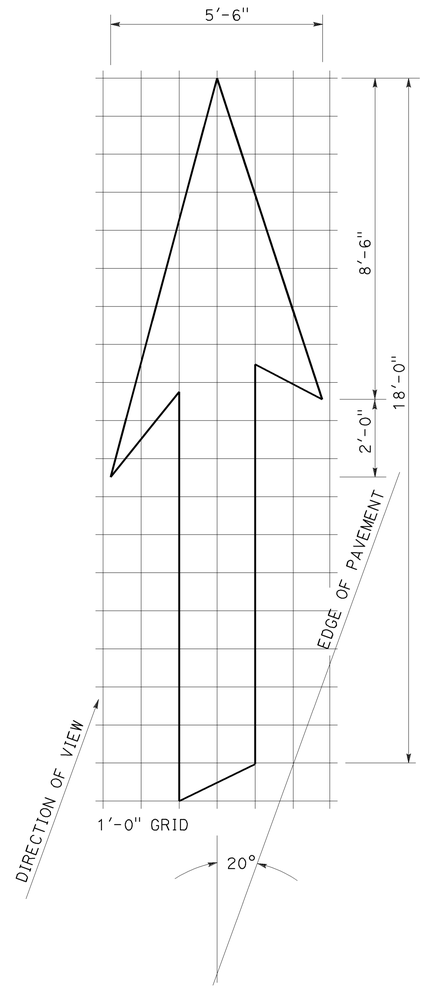
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

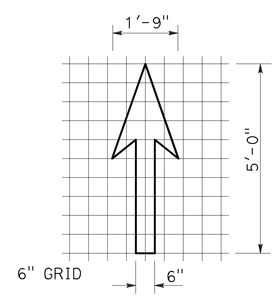
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

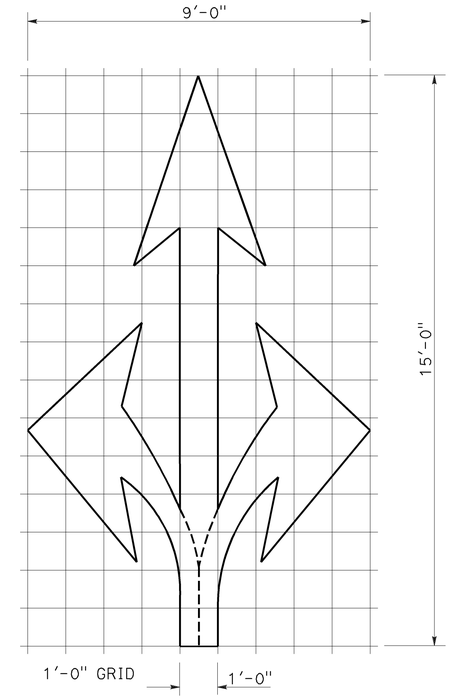
TYPE VI ARROW

Right lane drop arrow
(For left lane, use mirror image)



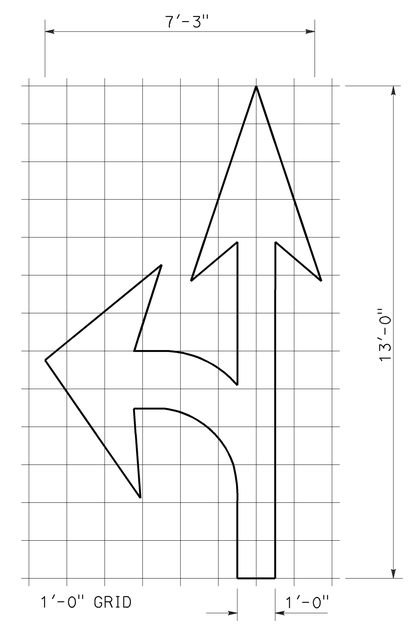
A=3.5 ft^2

BIKE LANE ARROW



A=36 ft^2

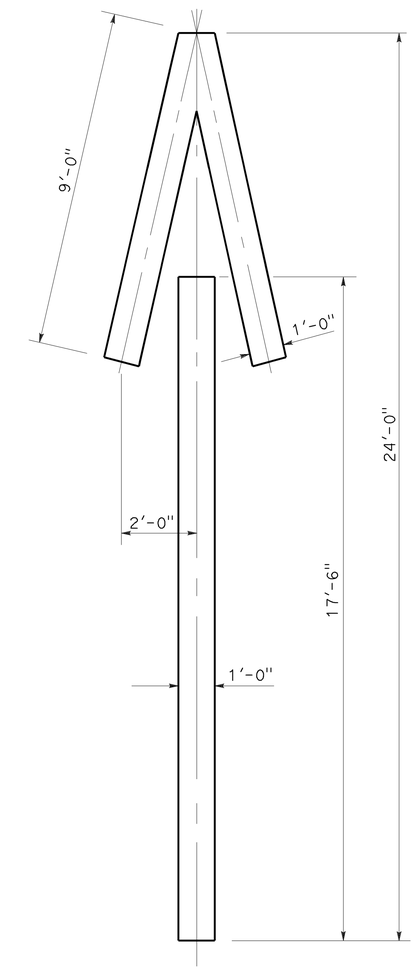
TYPE VIII ARROW



A=27 ft^2

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft^2

TYPE V ARROW

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	30	37

REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

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

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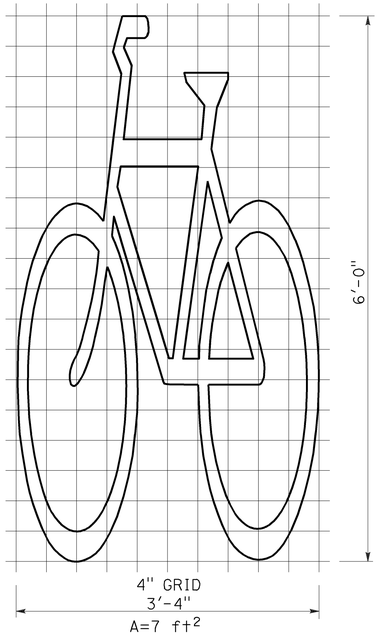
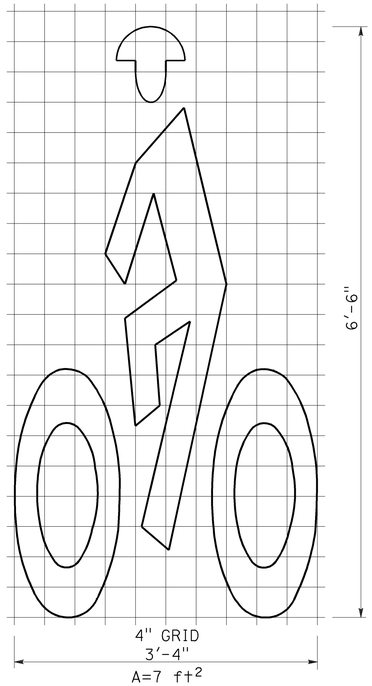
NOTE: TO ACCOMPANY PLANS DATED 10-5-15

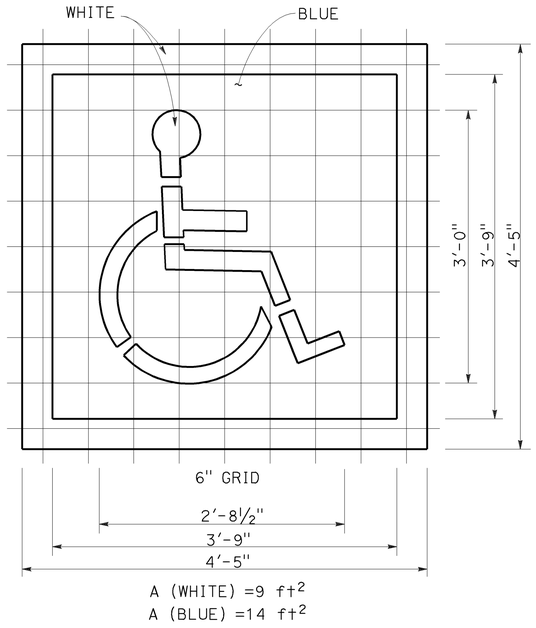
Minor variations in dimensions may be accepted by the Engineer.



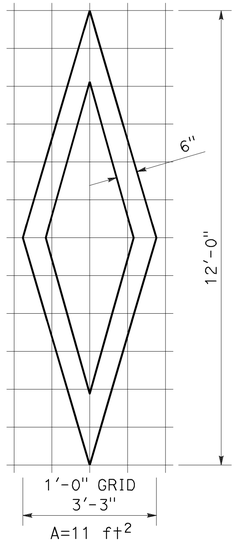
BIKE LANE SYMBOL WITHOUT PERSON



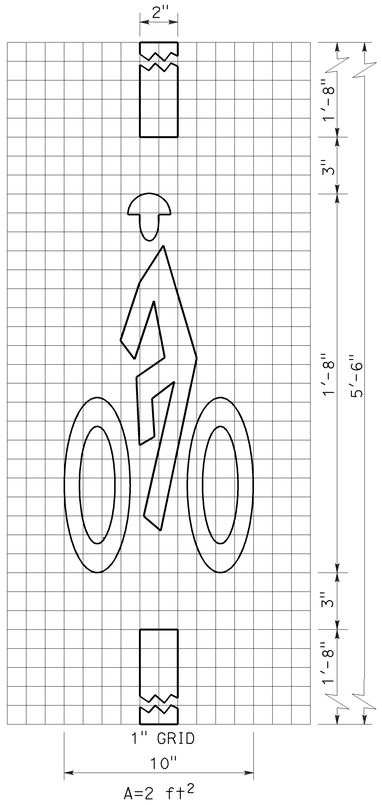
BIKE LANE SYMBOL WITH PERSON



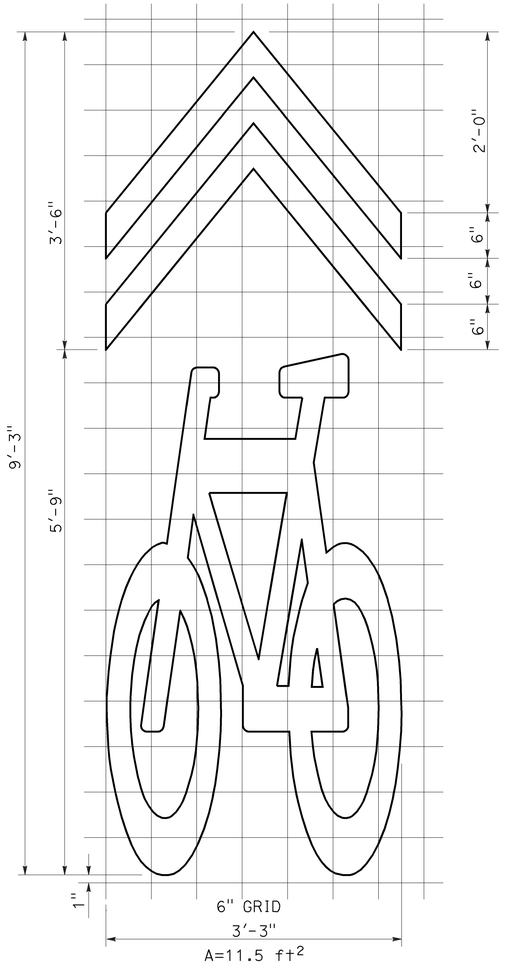
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



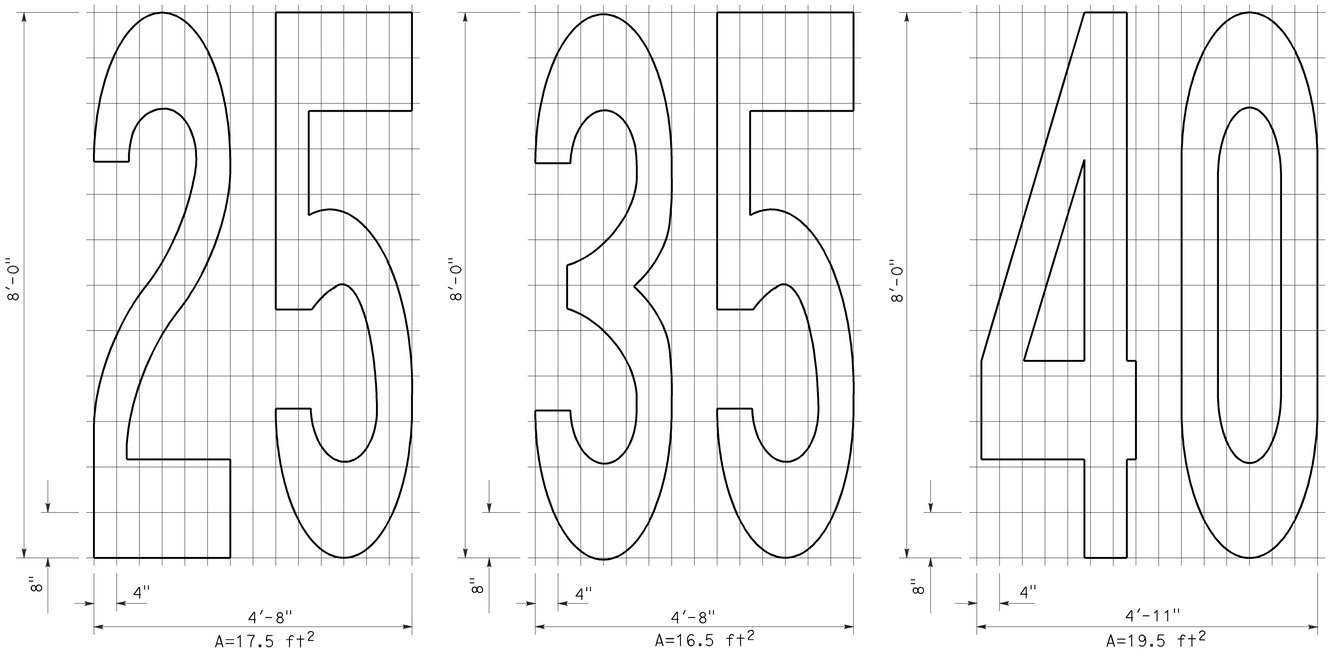
DIAMOND SYMBOL



BICYCLE LOOP DETECTOR SYMBOL



SHARED ROADWAY BICYCLE MARKING



NUMERALS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	31	37

REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

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

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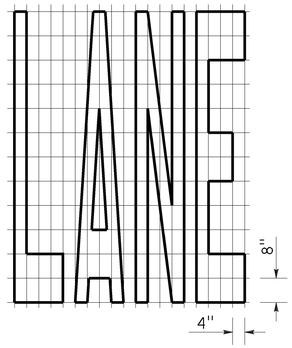
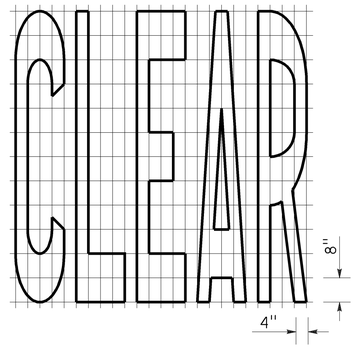
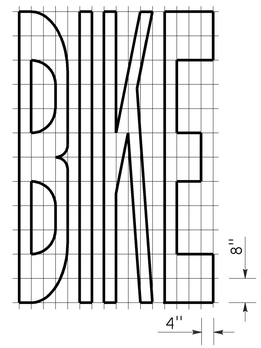
TO ACCOMPANY PLANS DATED 10-5-15



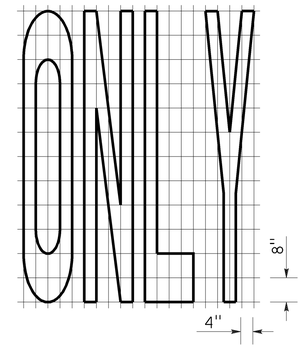
A=24 ft^2



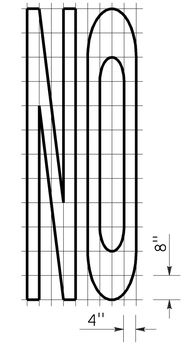
A=27 ft^2



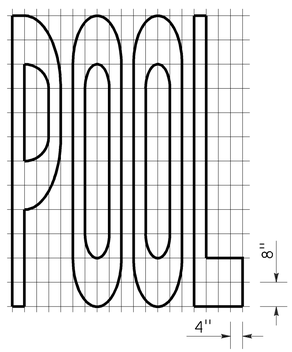
A=21 ft^2



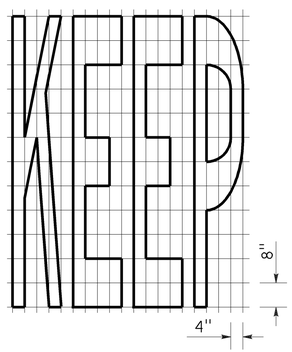
A=22 ft^2



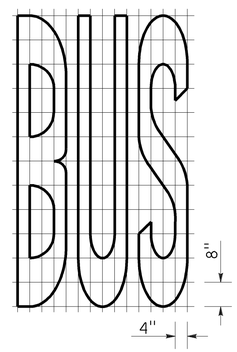
A=14 ft^2



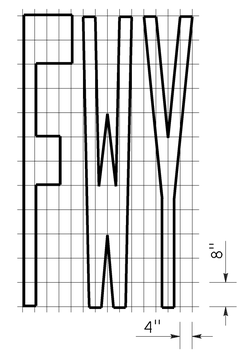
A=23 ft^2



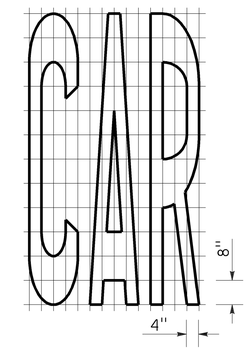
A=24 ft^2



A=20 ft^2

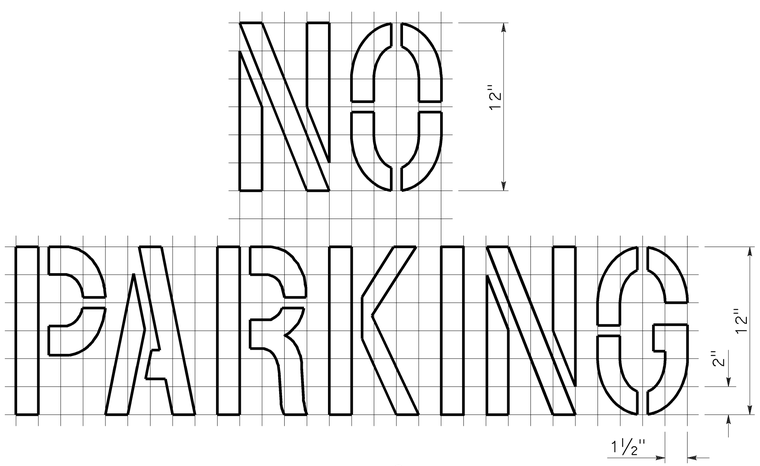


A=16 ft^2



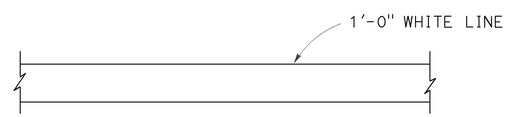
A=17 ft^2

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

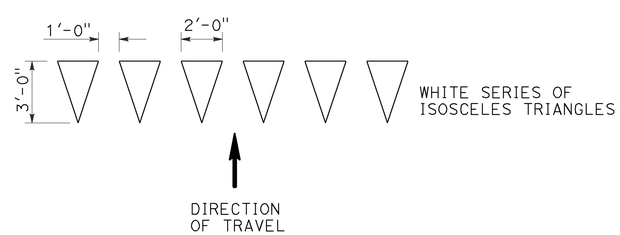


A=2 ft^2

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES

NO SCALE

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

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	32	37

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Michael Janzen No. 44788 Exp. 03-31-14 CIVIL STATE OF CALIFORNIA

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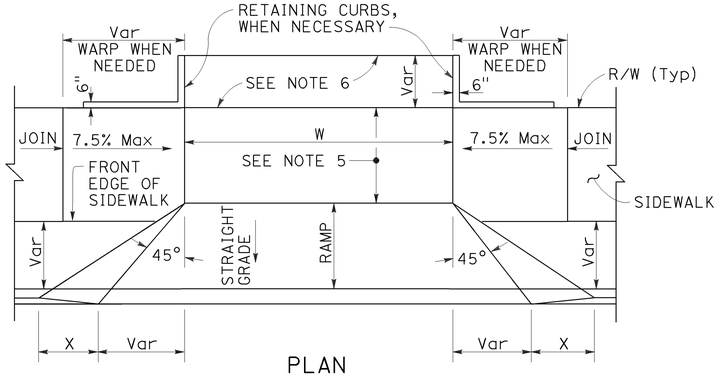
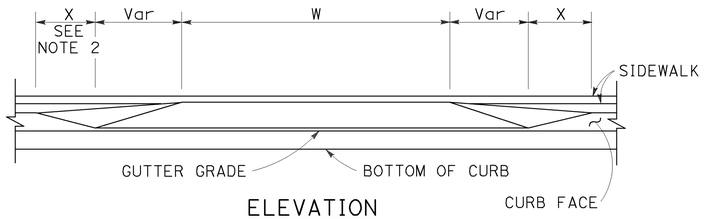
TO ACCOMPANY PLANS DATED 10-5-15

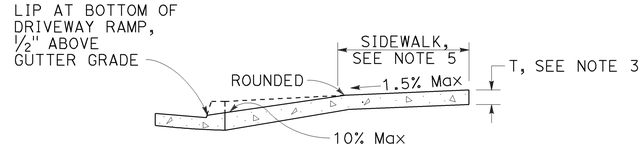
2010 REVISED STANDARD PLAN RSP A87A



PLAN

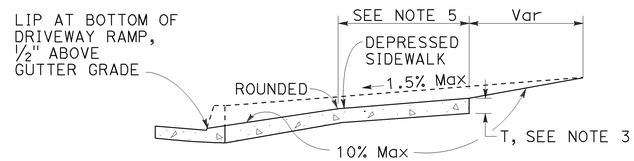


ELEVATION



CASE A

Typical driveway, sidewalk not depressed

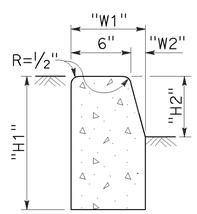


CASE B

Driveway with depressed sidewalk

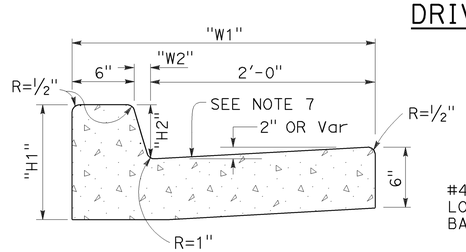
SECTIONS

DRIVEWAYS



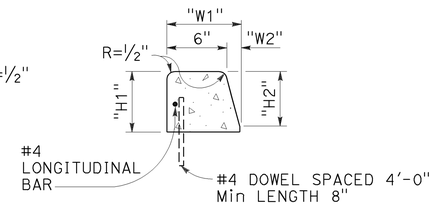
TYPE A1 CURBS

See Table A



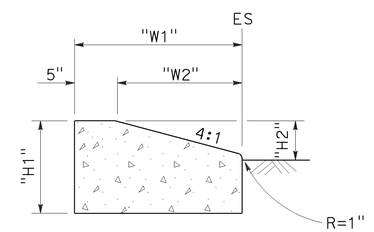
TYPE A2 CURBS

See Table A



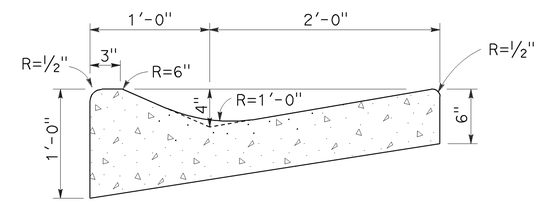
TYPE A3 CURBS

Superimposed on existing pavement
See Table A

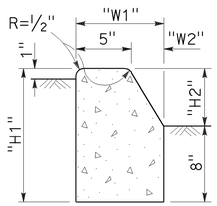


TYPE D CURBS

See Table A

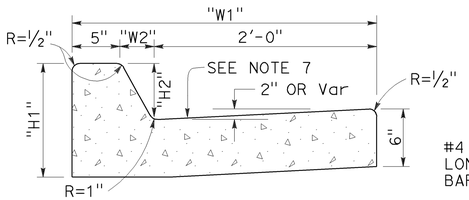


TYPE E CURB



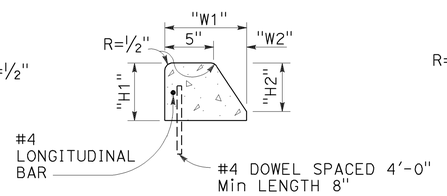
TYPE B1 CURBS

See Table A



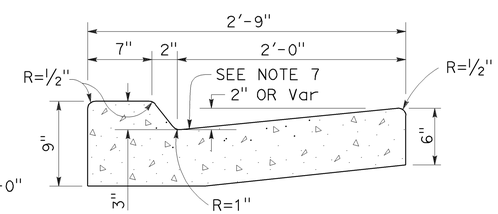
TYPE B2 CURBS

See Table A

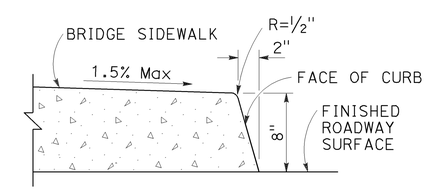


TYPE B3 CURBS

Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB

On Bridges

CURBS

TABLE A

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7½"	1½"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7½"	1½"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7¼"	1¼"
A3-8	8"	7"	7¾"	1¾"
B1-4	1'-0"	4"	7½"	2½"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7½"	2½"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8½"	3½"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-9"

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

NOTES:

1. Case A driveway section typically applies.
2. X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
3. Sidewalk and ramp thickness "T" at driveway shall be 4" for residental and 6" for commercial.
4. 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.
5. Minimum width of clear passageway for sidewalk shall be 4'-2".
6. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
7. Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

RSP A87A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87A
DATED MAY 20, 2011 - PAGE 119 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	33	37

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Michael Janzen
No. 44788
Exp. 03-31-14
CIVIL
STATE OF CALIFORNIA

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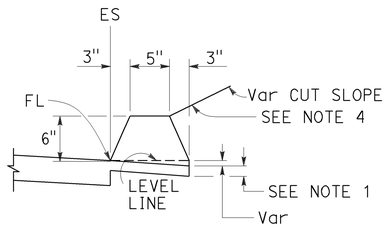
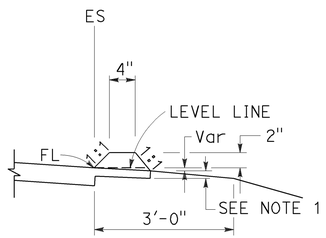
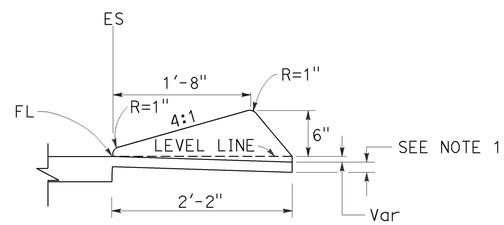
TO ACCOMPANY PLANS DATED 10-5-15



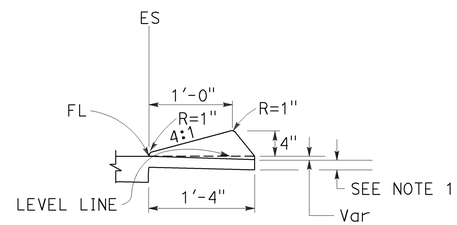
TYPE A
See Note 3



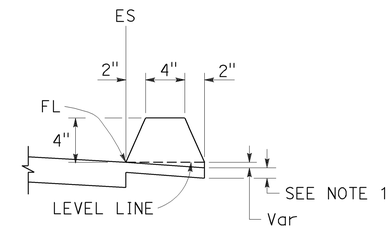
TYPE C



TYPE D

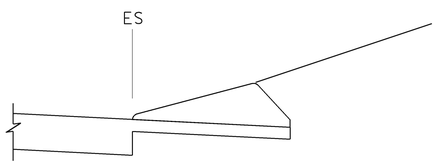


TYPE E

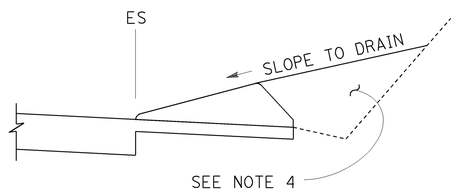


TYPE F
See Note 5

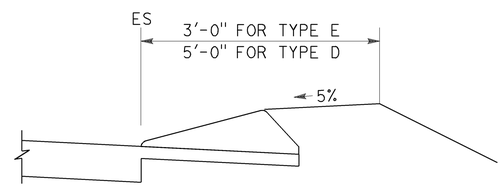
DIKES



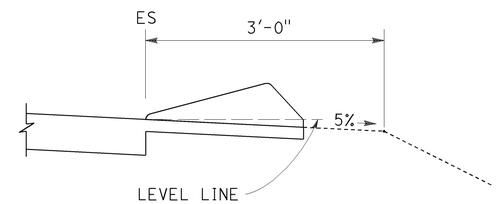
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

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

DIKE QUANTITIES

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

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES

NO SCALE

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

REVISED STANDARD PLAN RSP A87B

2010 REVISED STANDARD PLAN RSP A87B

6-27-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	34	37

REGISTERED CIVIL ENGINEER

July 3, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Hector David Cordova No. C41957 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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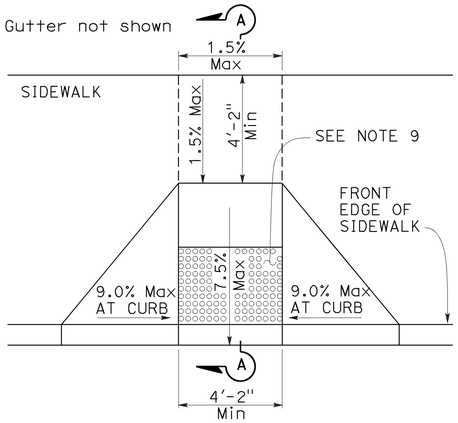
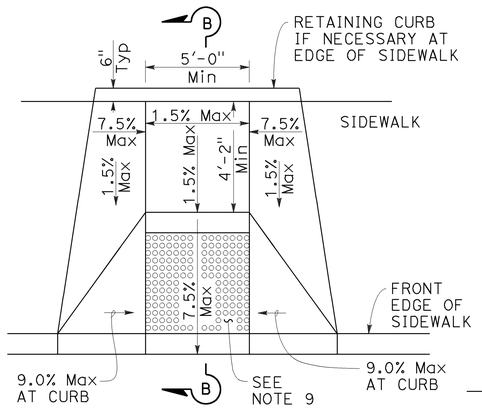
TO ACCOMPANY PLANS DATED 10-5-15

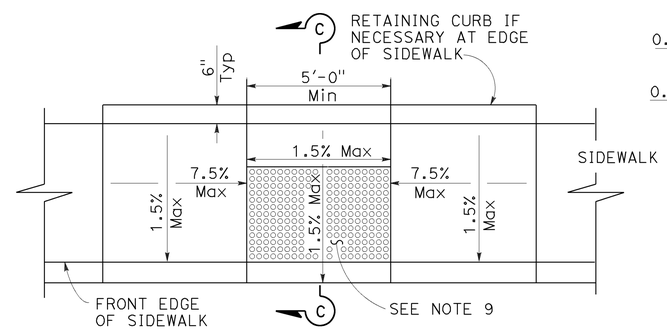
2010 REVISED STANDARD PLAN RSP A88A



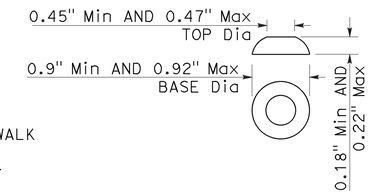
CASE A



CASE B



CASE C



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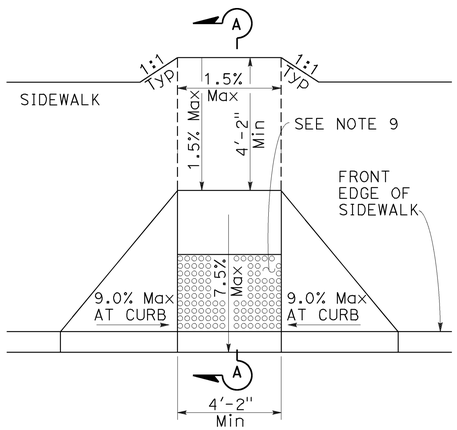
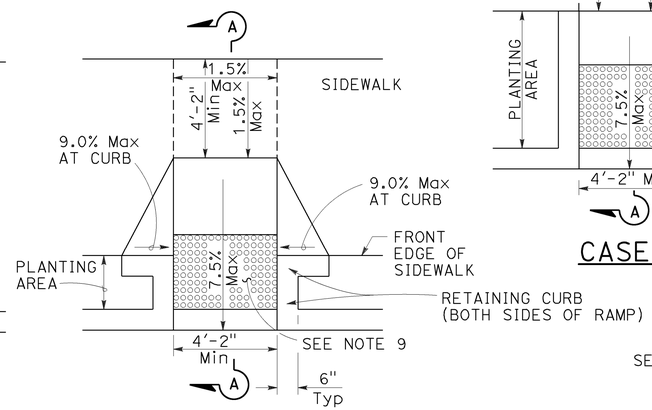
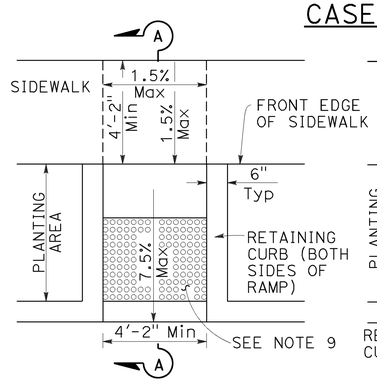


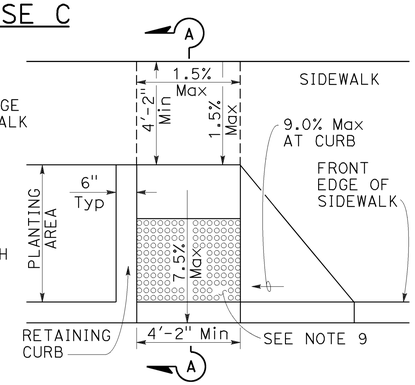
CASE D



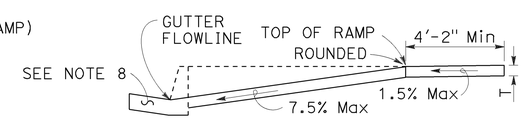
CASE E



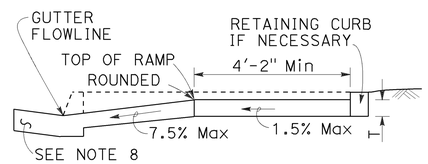
CASE F



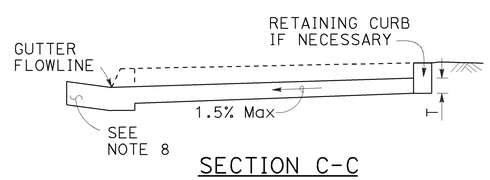
CASE G
See Note 4



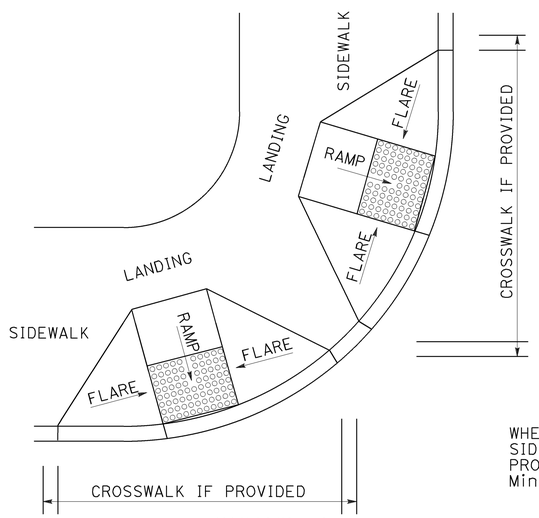
SECTION A-A



SECTION B-B
Depress entire sidewalk as required



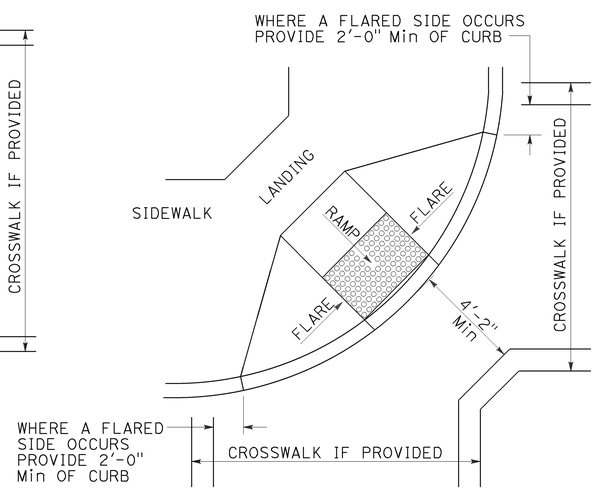
SECTION C-C



DETAIL A

TYPICAL TWO-RAMP CORNER INSTALLATION

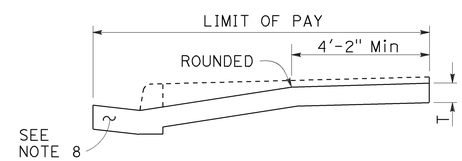
See Note 1



DETAIL B

TYPICAL ONE-RAMP CORNER INSTALLATION

See Notes 1 and 3



RETROFIT PAY LIMITS

Existing curb and sidewalk

NOTES:

1. 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.
2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" 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.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
5. If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".
6. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. Transitions from ramps and landing to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
8. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20 (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
9. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. A 4'-0" wide detectable warning surface may be used on a 4'-2" wide curb ramp. Detectable Warning Surfaces shall conform to the requirements in the Standard Specifications.
10. Sidewalk and ramp thickness, "T", shall be 3½" minimum.
11. 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.
12. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.

RAISED TRUNCATED DOME PATTERN (IN-LINE)

DETECTABLE WARNING SURFACE

See Note 9

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS

NO SCALE

RSP A88A DATED JULY 3, 2015 SUPERSEDES RSP A88A DATED MARCH 21, 2014 AND RSP A88A DATED JULY 19, 2013 AND STANDARD PLAN A88A DATED MAY 20, 2011 - PAGE 121 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A88A

6-30-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	35	37

REGISTERED CIVIL ENGINEER

July 3, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Hector David Cordova
No. C41957
Exp. 3-31-16
CIVIL
STATE OF CALIFORNIA

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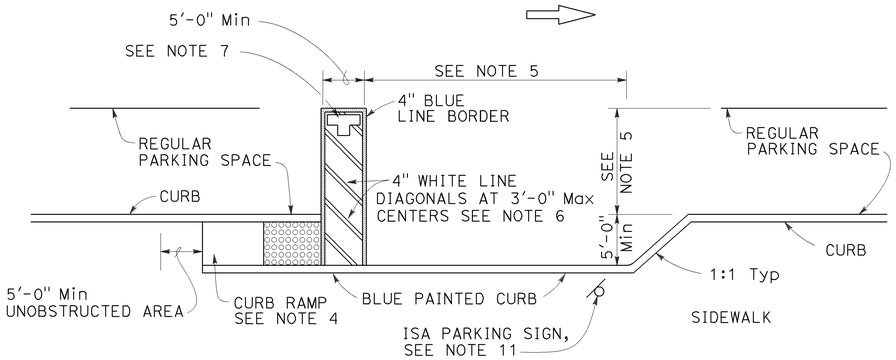
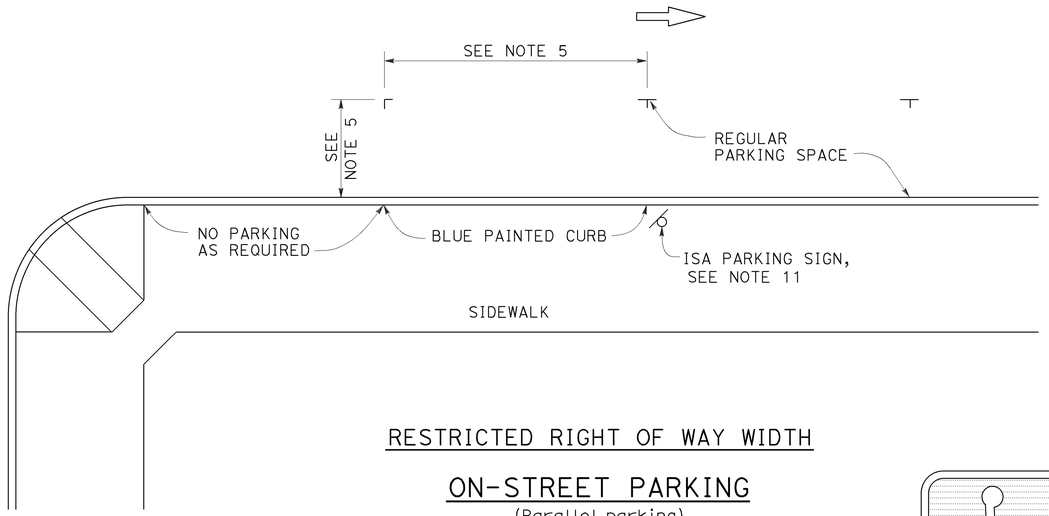
TO ACCOMPANY PLANS DATED 10-5-15



CONVENTIONAL

(See Note 9)



RESTRICTED RIGHT OF WAY WIDTH

ON-STREET PARKING

(Parallel parking)
(See Note 10)

SIGN R99 (CA)

SIGN R99C (CA)
See Note 3

PLAQUE R99B (CA)

SIGN R99 (CA) with PLAQUE R99B (CA)
See Note 3

PAVEMENT MARKING

See Note 7

NOTES:

1. Parking spaces shall be so located that persons with disabilities are not compelled to wheel or walk behind parked vehicles other than their own.
2. Surface slopes of accessible on-street parking spaces shall be the minimum feasible.
3. Where Plaque R99B (CA) or Sign R99C (CA) are installed, the bottom of the sign or plaque panel shall be a minimum of 7'-0" above the surrounding surface.
4. Curb ramps shall conform to the details shown on Revised Standard Plan RSP A88A.
5. Accessible on-street parking spaces shall not be smaller in length or width than that specified by the local jurisdiction for other parking spaces, but not less than 20'-0" in length and not less than 8'-0" in width.
6. Blue paint, instead of white may be used for marking accessibility aisles in areas where snow may cause white markings to not be visible.
7. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials. See Revised Standard Plan RSP A24E for square foot area for painting the words "NO PARKING".
8. There shall be no obstructions on the sidewalk adjacent to and for the full length of the parking space, except for the ISA parking sign shown.
9. The Conventional detail should be the primary choice of accessible on-street parking. However, if the sidewalk lacks adequate space to construct a standard curb ramp, the Restricted Right of Way detail should be used.
10. If the Restricted Right of Way width detail is selected and it conflicts with a bus stop or other uses, this detail may apply to the other end of the block.
11. Accessible Parking Only Sign shall be Sign R99C (CA) or Sign R99 (CA) with Plaque R99B (CA).

LEGEND

ISA = International Symbol of Accessibility

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACCESSIBLE PARKING ON-STREET

NO SCALE

RSP A90B DATED JULY 3, 2015 SUPERSEDES RSP A90B DATED JULY 19, 2013 SUPERSEDES AND PLAN A90B DATED MAY 20, 2011 - PAGE 124 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A90B

2010 REVISED STANDARD PLAN RSP A90B

4-30-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	36	37

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 10-5-15

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

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

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

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

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

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

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

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

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

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

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

REVISED STANDARD PLAN RSP T9

2010 REVISED STANDARD PLAN RSP T9

4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	68	0.0/1.1	37	37

Devinder Singh
REGISTERED CIVIL ENGINEER

October 17, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Devinder Singh
No. C50470
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 10-5-15

NOTES:

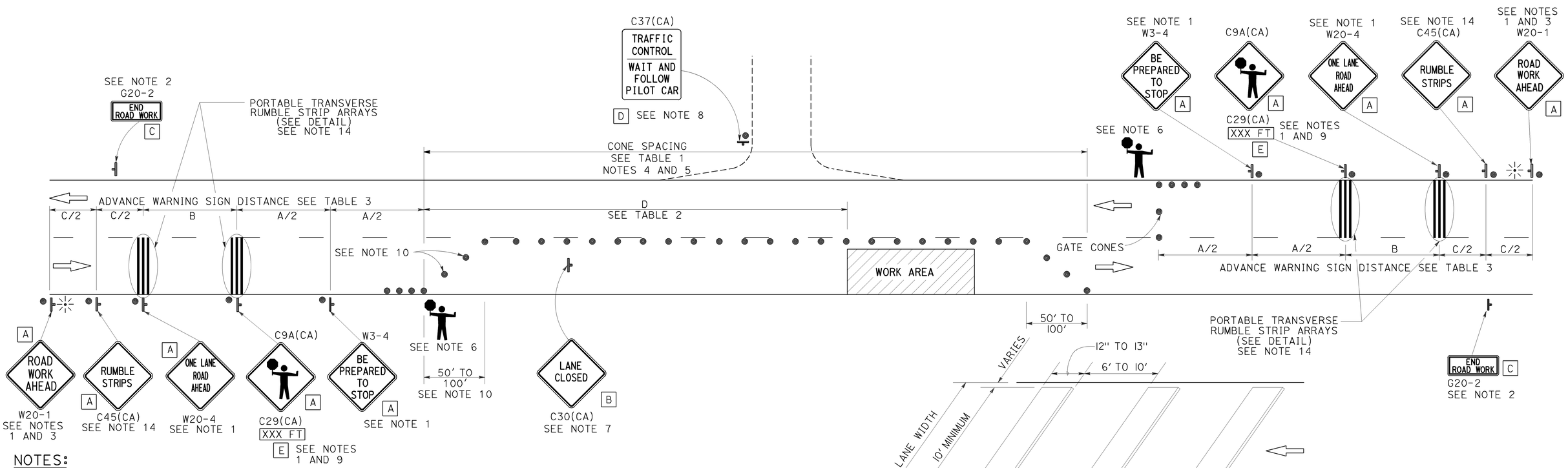
See Revised Standard Plan RSP T9 for tables.

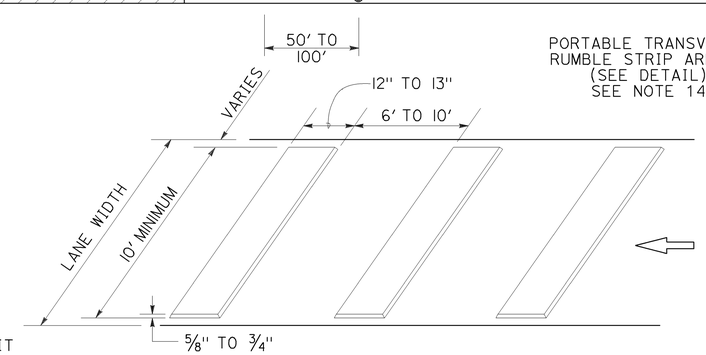
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL





PORTABLE TRANSVERSE RUMBLE STRIP ARRAY DETAIL

NOTES:

1. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
7. Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
8. When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
11. The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
12. Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
13. If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
14. Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
    A. Work duration occupies a location for four hours or less
    B. Posted speed limit is below 45 MPH
    C. Work is of emergency nature
    D. Work zone is in snow or icy weather conditions

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

SIGN PANEL SIZE (Min)

A	48" x 48"
B	30" x 30"
C	36" x 18"
D	36" x 42"
E	20" x 7"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED OCTOBER 17, 2014 SUPERSEDES RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

9-26-14