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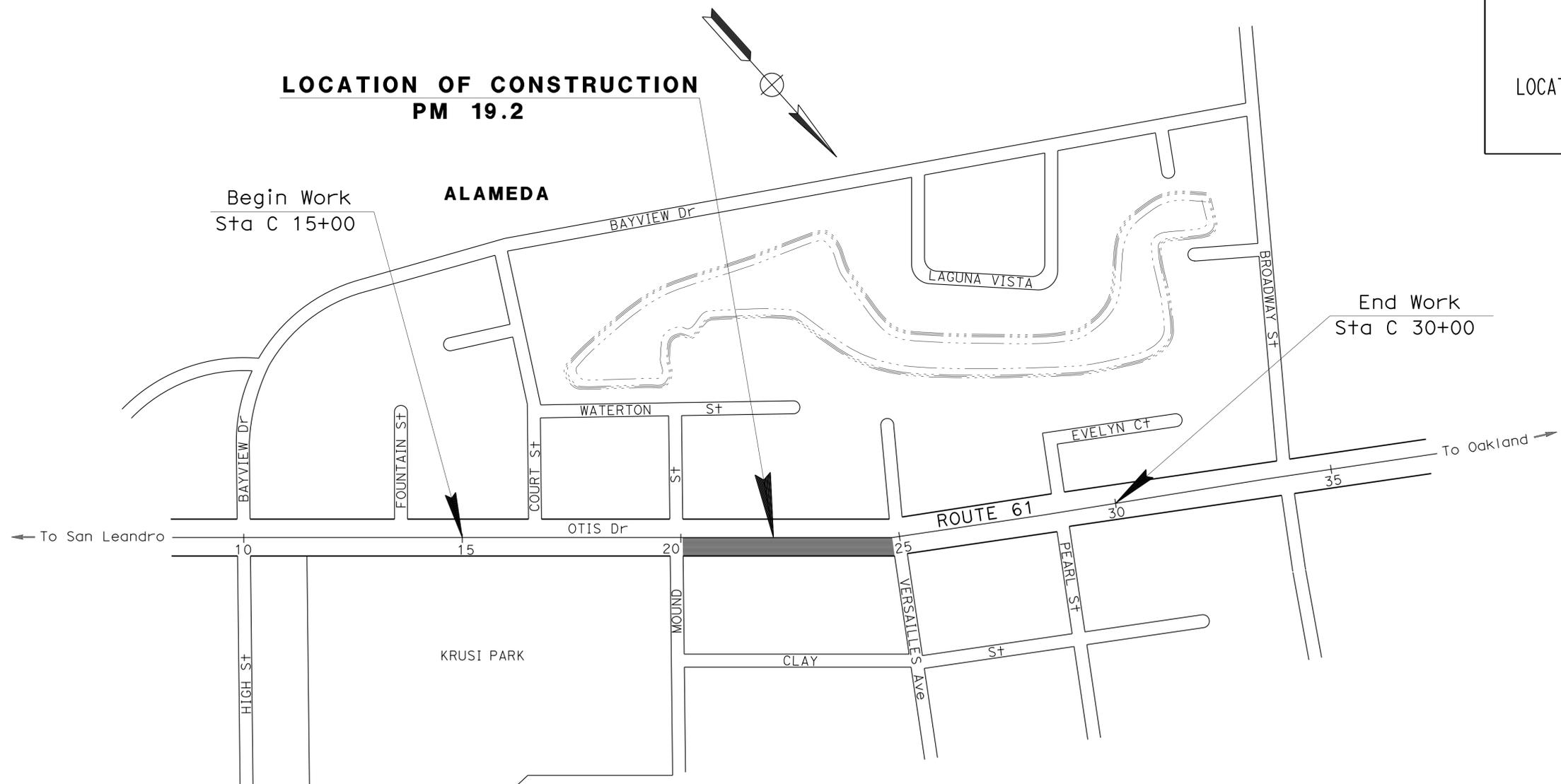
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ALAMEDA COUNTY
IN ALAMEDA
ON OTIS DRIVE BETWEEN
MOUND STREET AND VERSAILLES AVENUE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	1	25

LOCATION MAP



PROJECT MANAGER
MICHAEL T. NGUYEN
 DESIGN MANAGER
ARLISSA PANG

Adrian S. Custodio 2/24/14
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
March 10, 2014
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONTRACT No.	04-2G8404
PROJECT ID	0412000016

NO SCALE

DATE PLOTTED => 09-APR-2014 TIME PLOTTED => 15:16
 LAST REVISION: 03-05-14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	2	25

Adrian S. Custodio 2/24/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

Adrian S. Custodio
 No. 46570
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

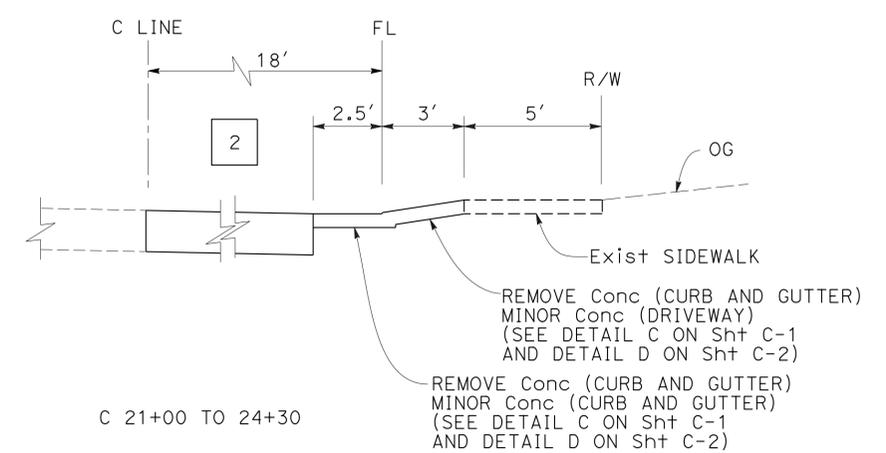
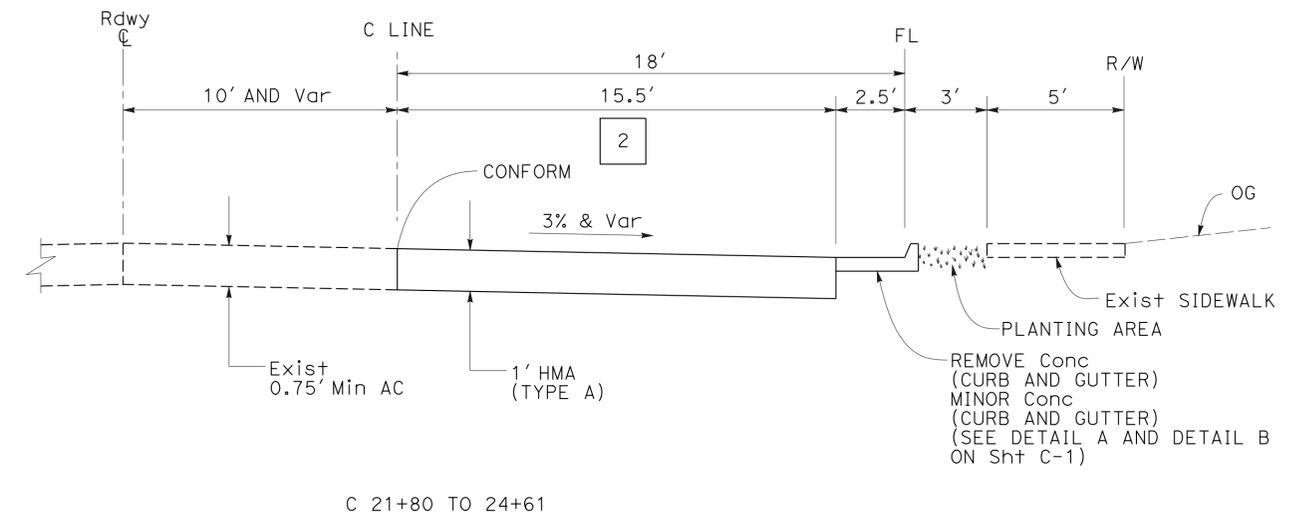
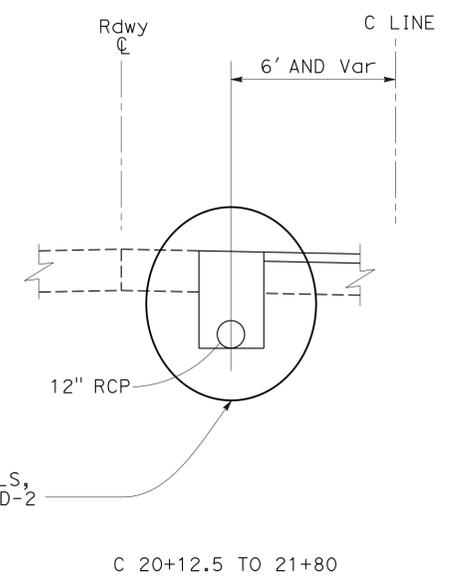
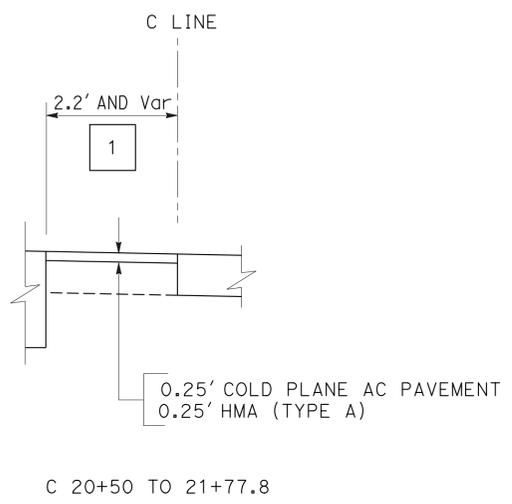
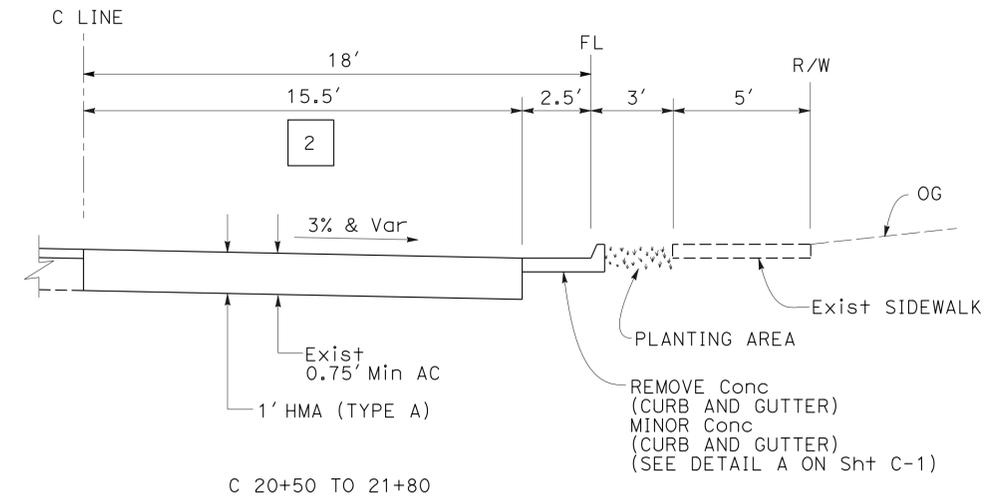
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NOTE:

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

PAVEMENT STRUCTURAL SECTION:

- 1 [0.25' COLD PLANE AC PAVEMENT
0.25' HMA (TYPE A)]
- 2 [1' HMA (TYPE A)]



NB ROUTE 61

TYPICAL CROSS SECTIONS
NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: ARLISSA PANG
 CALCULATED/DESIGNED BY: DANIEL HAILE
 CHECKED BY: ADRIAN CUSTODIO
 REVISED BY: DANIEL HAILE
 DATE REVISED: 11/27/13
 DH

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

NOTE:
 1. DRIVEWAYS MUST BE ACCESSIBLE AT ALL TIMES.

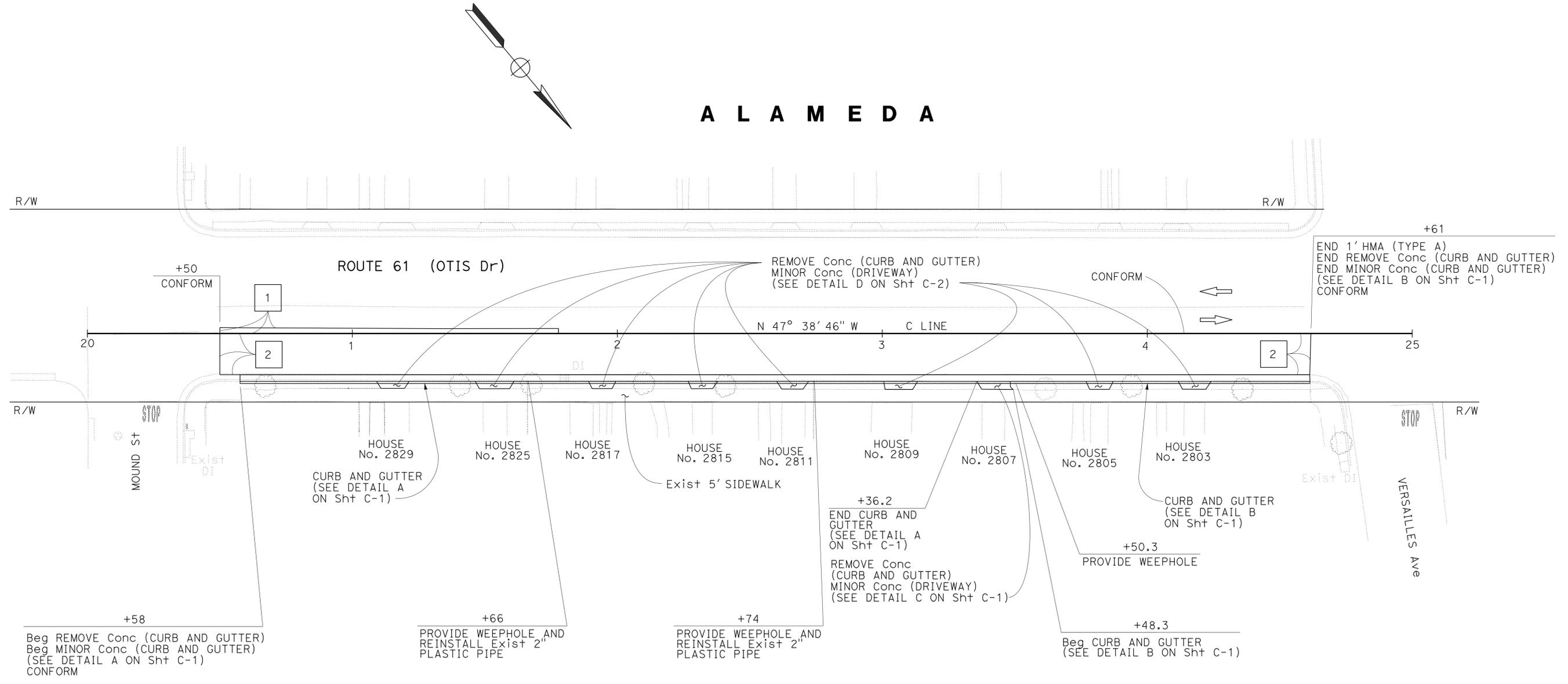
LEGEND:
 No. STRUCTURAL SECTION NUMBER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	3	25

Adrian S. Custodio 2/24/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

Adrian S. Custodio
 No. 46570
 Exp. 6-30-15
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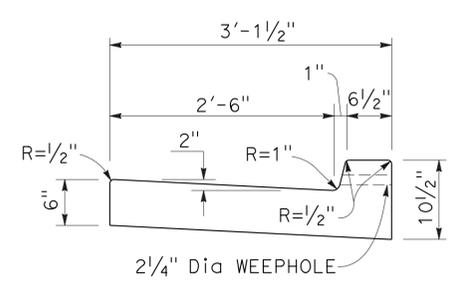
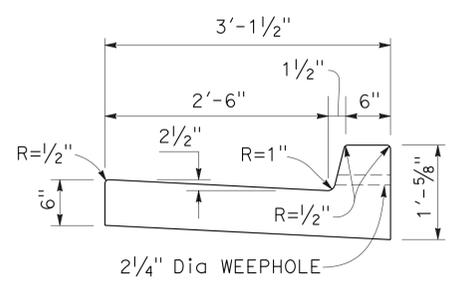
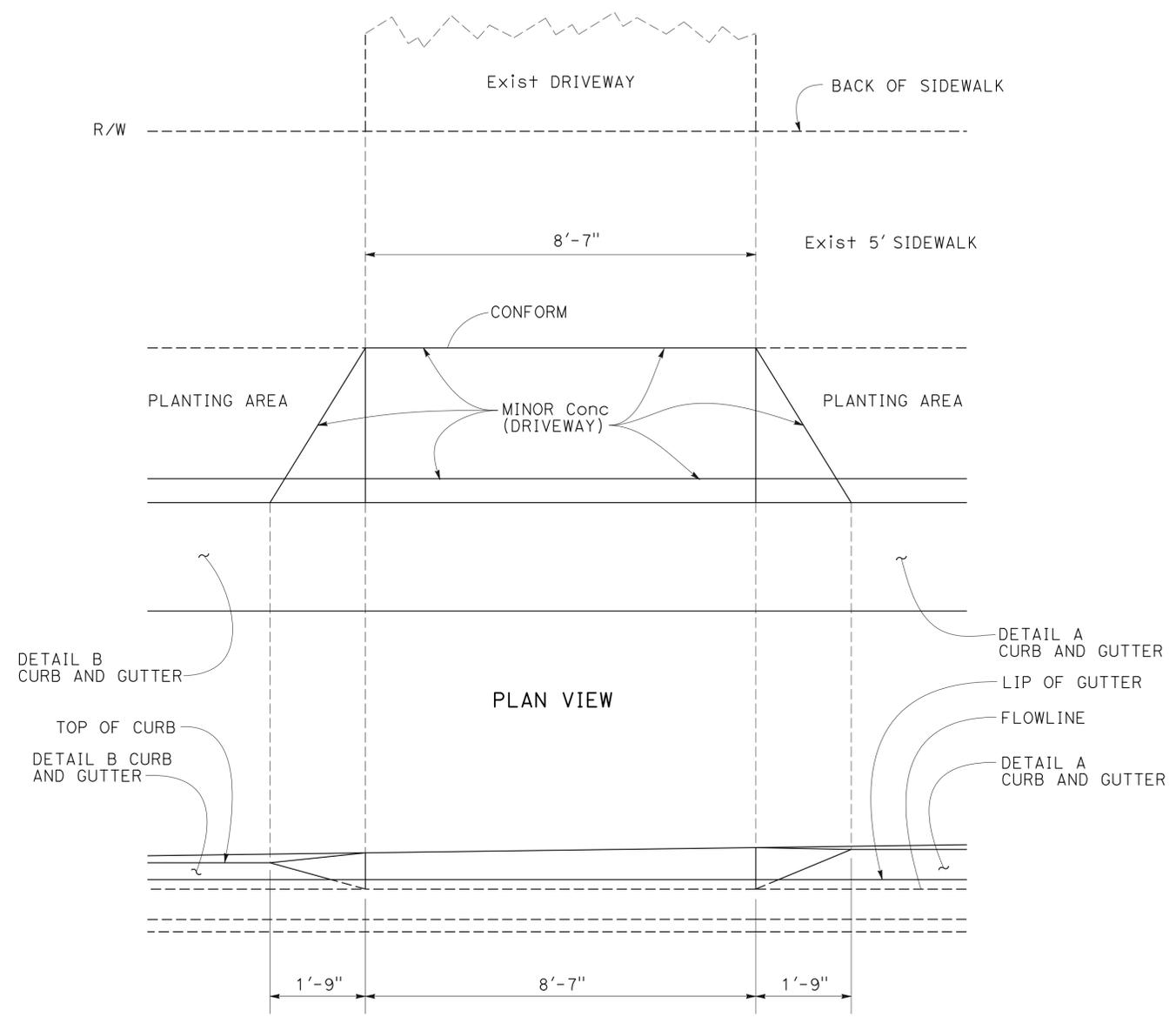
LAYOUT
 SCALE: 1" = 20'

L-1

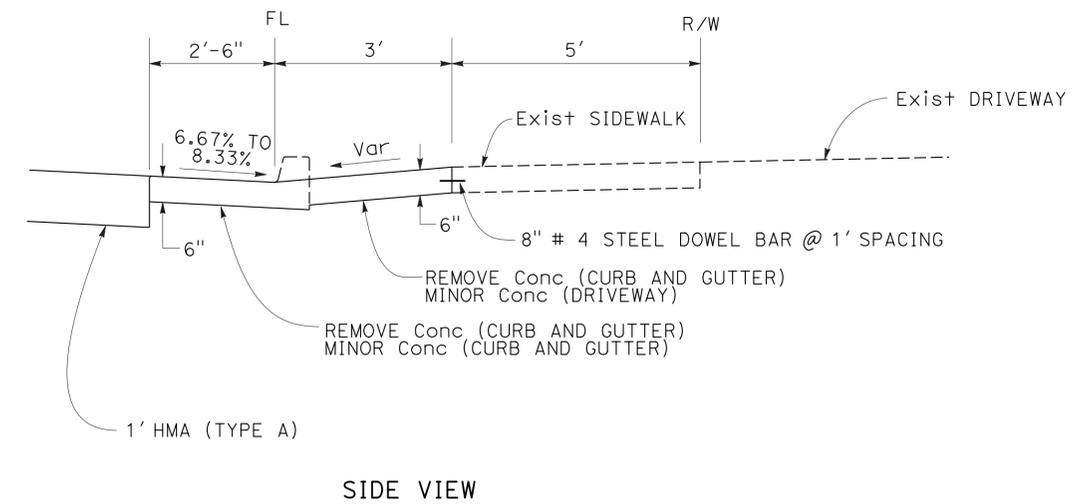
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	4	25
<i>Adrian S. Custodio</i> 2/24/14 REGISTERED CIVIL ENGINEER DATE					
3-10-14 PLANS APPROVAL DATE					
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 FUNCTIONAL SUPERVISOR ARLISSA PANG
 CALCULATED/DESIGNED BY ARLISSA PANG
 REVISOR BY AC
 DATE REVISED 11/27/13
 ADRIAN CUSTODIO
 ARLISSA PANG
 CHECKED BY
 ARLISSA PANG

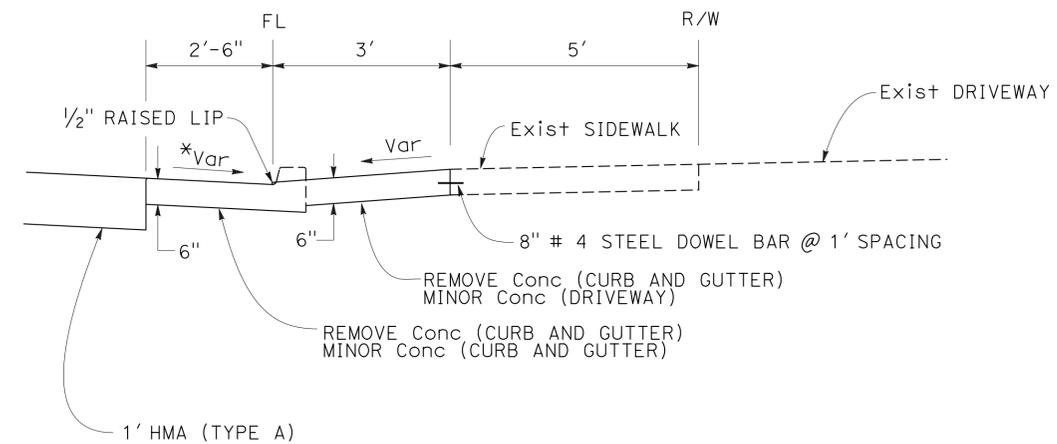
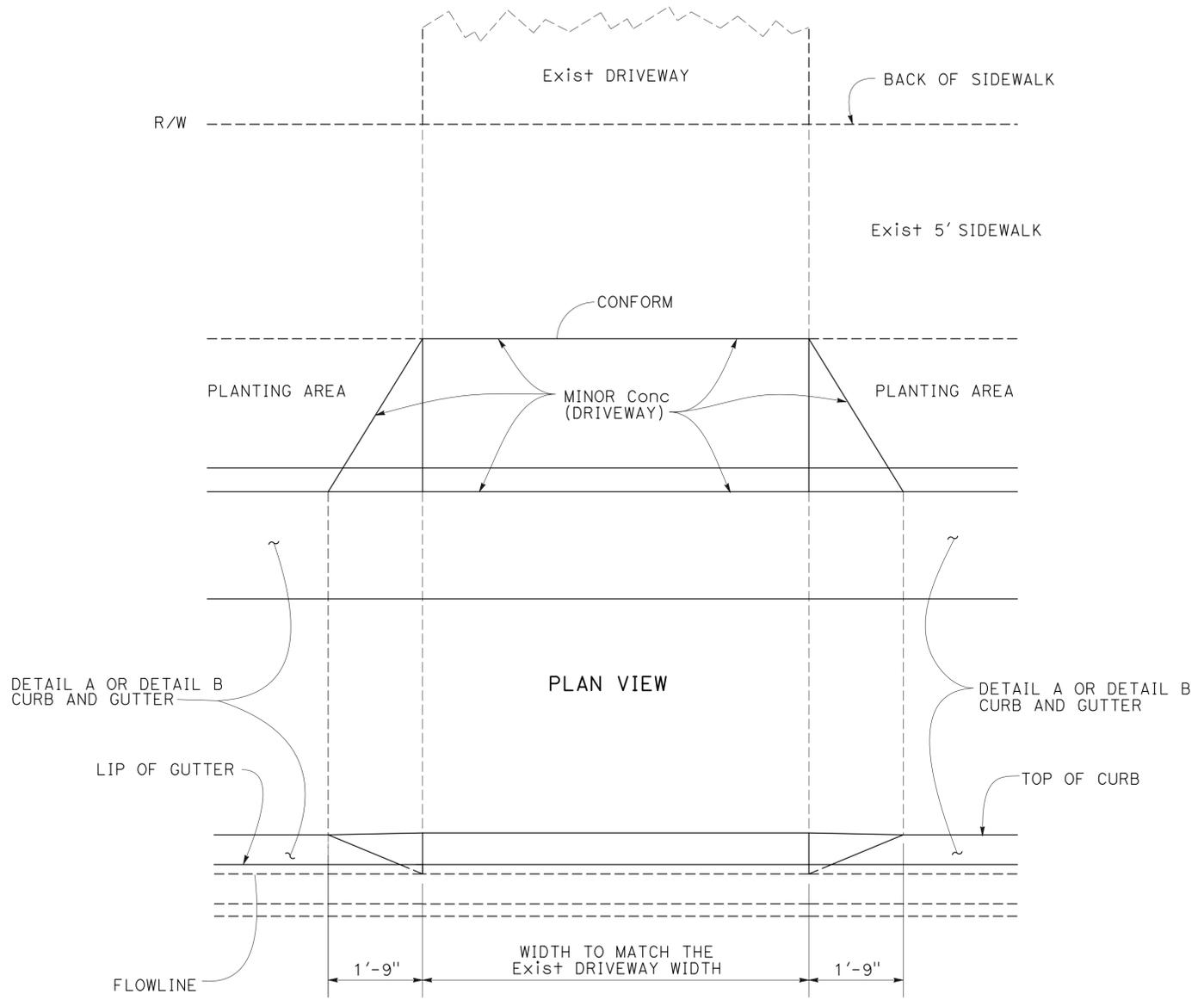


CURB AND GUTTER



CONSTRUCTION DETAILS
NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	5	25
<i>Adrian S. Custodio</i> 2/24/14 REGISTERED CIVIL ENGINEER DATE			3-10-14 PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER Adrian S. Custodio No. 46570 Exp. 6-30-15 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.		



* SLOPE % IS EQUIVALENT TO THE % OF THE ADJACENT GUTTER SLOPES.

FRONT VIEW
DETAIL D
 CURB, GUTTER, SIDEWALK AND DRIVEWAY DETAILS AT HOUSES No. 2829, 2825, 2817, 2815, 2811, 2809, 2805 AND 2803

CONSTRUCTION DETAILS
 NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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 FUNCTIONAL SUPERVISOR: ARLISSA PANG
 CALCULATED/DESIGNED BY: ARLISSA PANG
 CHECKED BY:
 ADRIAN CUSTODIO
 ARLISSA PANG
 REVISED BY: AC
 DATE REVISED: 11/27/13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR: ARLISSA PANG
 CALCULATED/DESIGNED BY: DANIEL HAILE
 CHECKED BY: ADRIAN CUSTODIO
 REVISED BY: DH
 DATE REVISED: 11/27/13

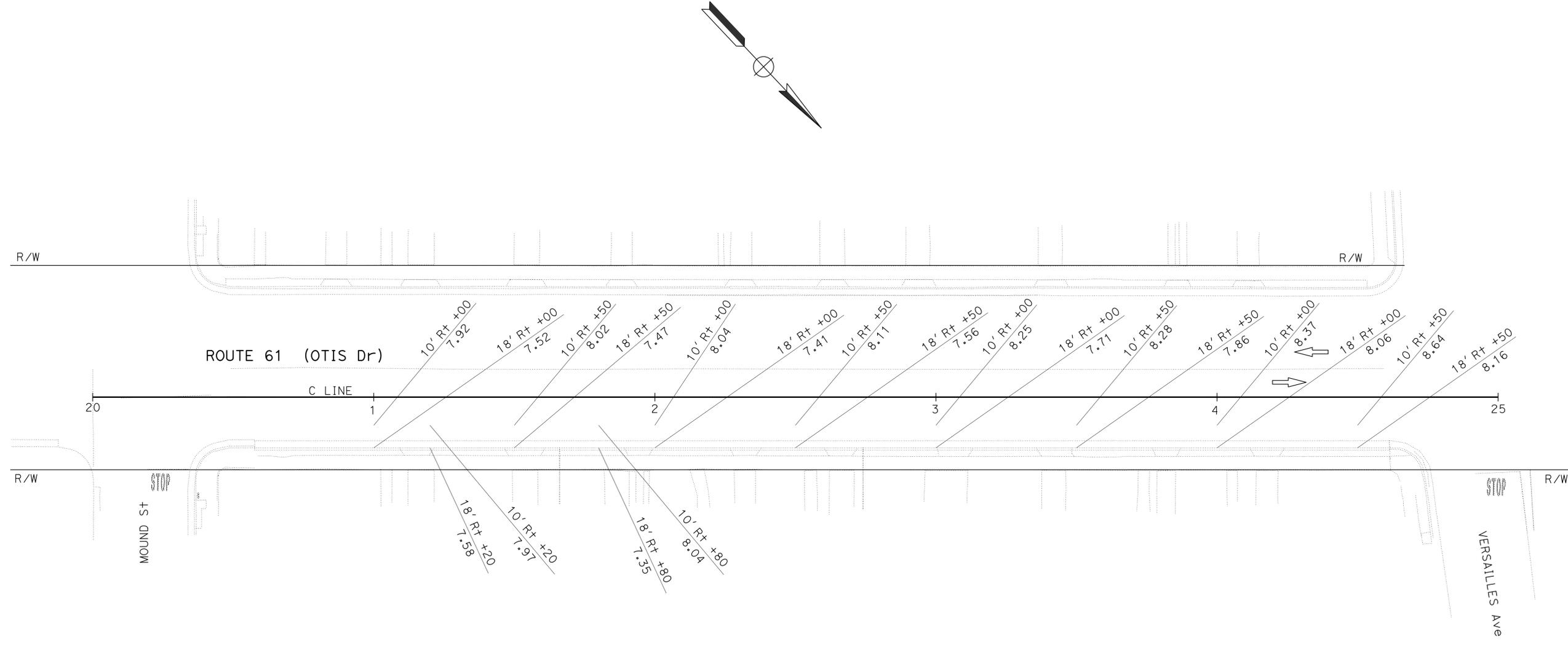
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	6	25

Adrian S. Custodio 2/24/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Adrian S. Custodio
 No. 46570
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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APPROVED FOR PAVEMENT ELEVATION WORK ONLY

**CONSTRUCTION DETAILS
 PAVEMENT ELEVATION PLAN**
 SCALE: 1" = 20'

C-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	7	25

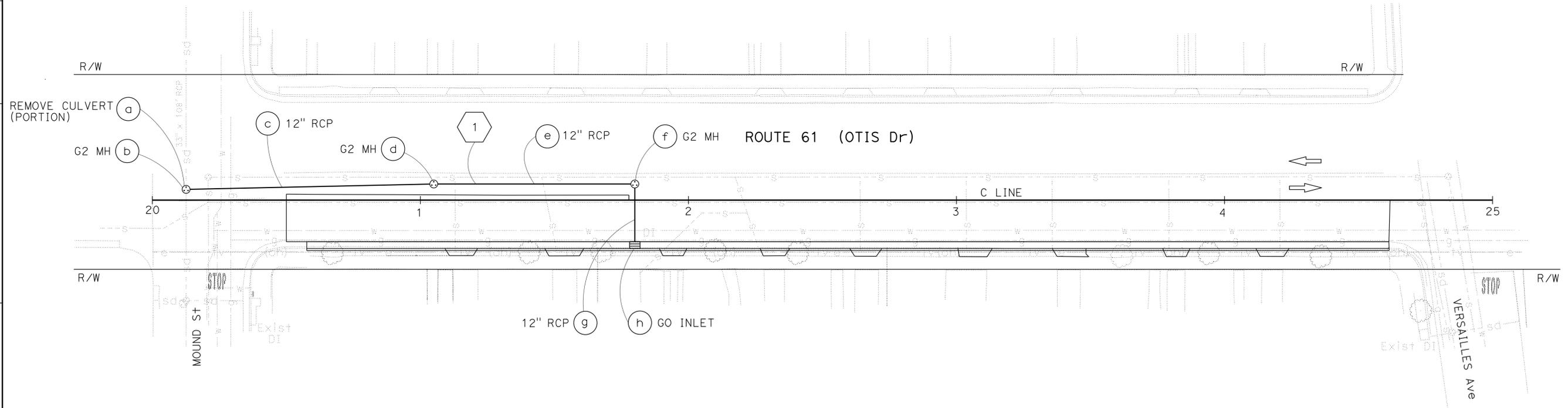
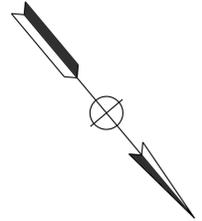
<i>Mark R. Morancy</i> 2/24/14	
REGISTERED CIVIL ENGINEER	DATE
3-10-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER Mark R. Morancy No. 55907 Exp. 2-31-14 CIVIL STATE OF CALIFORNIA
--

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

- NOTES:**
1. THE PROJECT VERTICAL DATUM IS NAVD 1988.
 2. LOCATIONS OF Exist DRAINAGE FACILITIES ARE APPROXIMATE. VERIFY LOCATION AND ELEVATION OF Exist DRAINAGE FACILITIES PRIOR TO MODIFICATION.
 3. TOP OF GRATE ELEVATIONS, STATION AND OFFSET TIES TO DRAINAGE INLETS ARE REFERENCED AS SHOWN ON SHEET DD-1.
 4. STATION AND OFFSET TIES TO DRAINAGE MANHOLES ARE REFERENCED TO THE CENTER OF THE BASE OF THE STRUCTURE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	CRAIG TOMIMATSU	MM	11/20/13
HYDRAULICS	CRAIG TOMIMATSU	MARK MORANCY	
	CRAIG TOMIMATSU	CRAIG TOMIMATSU	

DRAINAGE PLAN
SCALE: 1" = 20'

APPROVED FOR DRAINAGE WORK ONLY

D-1

LAST REVISION DATE PLOTTED => 09-APR-2014 02-25-14 TIME PLOTTED => 15:17

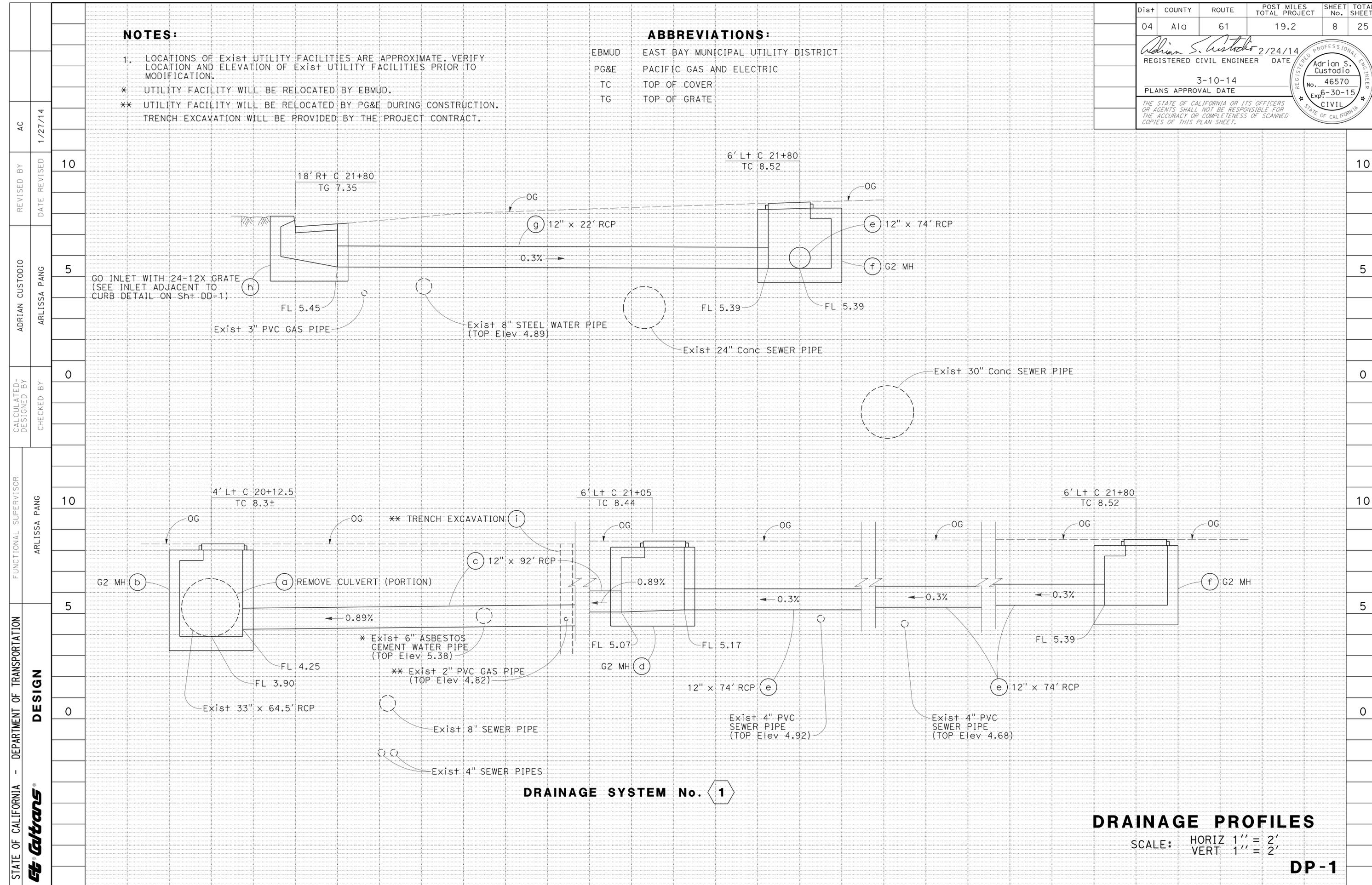
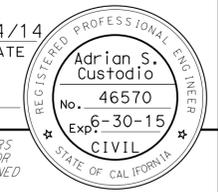
NOTES:

- 1. LOCATIONS OF EXIST UTILITY FACILITIES ARE APPROXIMATE. VERIFY LOCATION AND ELEVATION OF EXIST UTILITY FACILITIES PRIOR TO MODIFICATION.
- * UTILITY FACILITY WILL BE RELOCATED BY EBMUD.
- ** UTILITY FACILITY WILL BE RELOCATED BY PG&E DURING CONSTRUCTION. TRENCH EXCAVATION WILL BE PROVIDED BY THE PROJECT CONTRACT.

ABBREVIATIONS:

- EBMUD EAST BAY MUNICIPAL UTILITY DISTRICT
- PG&E PACIFIC GAS AND ELECTRIC
- TC TOP OF COVER
- TG TOP OF GRATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	8	25
Adrian S. Custodio 2/24/14 REGISTERED CIVIL ENGINEER DATE					
3-10-14 PLANS APPROVAL DATE					
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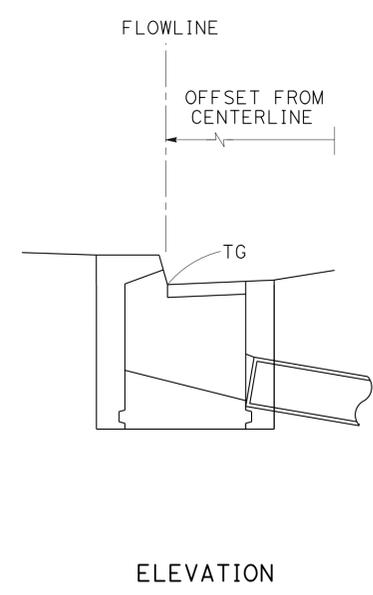
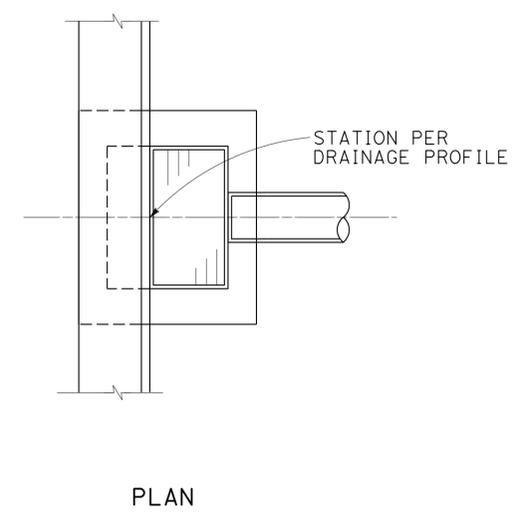


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	9	25

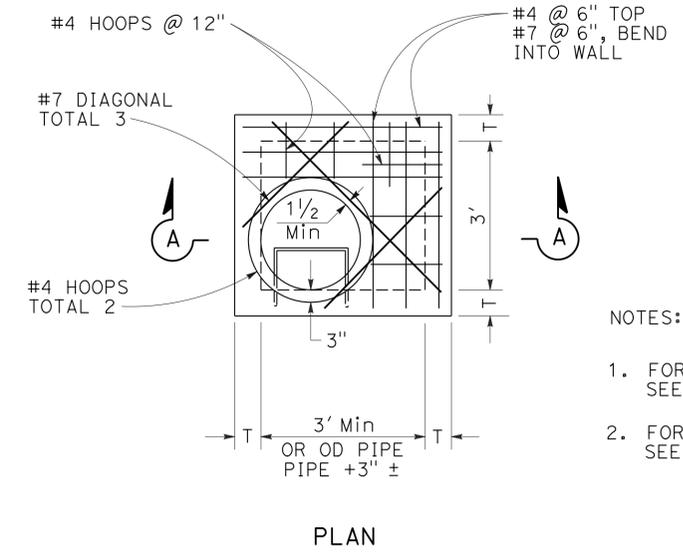
<i>Mark R. Morancy</i> 2/24/14	
REGISTERED CIVIL ENGINEER	DATE
3-10-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	Mark R. Morancy
No. 55907	Exp. 2-31-14
CIVIL	

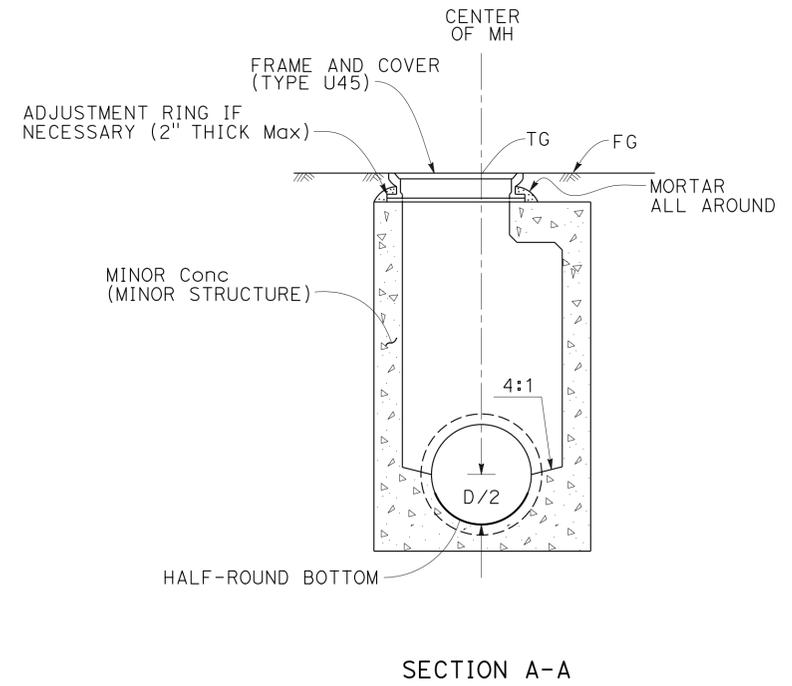
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



INLET ADJACENT TO CURB



- NOTES:
1. FOR INLET DETAILS NOT SHOWN, SEE S+D PLAN D73 (TYPE G2).
 2. FOR FRAME AND COVER DETAILS, SEE S+D PLAN B7-11.

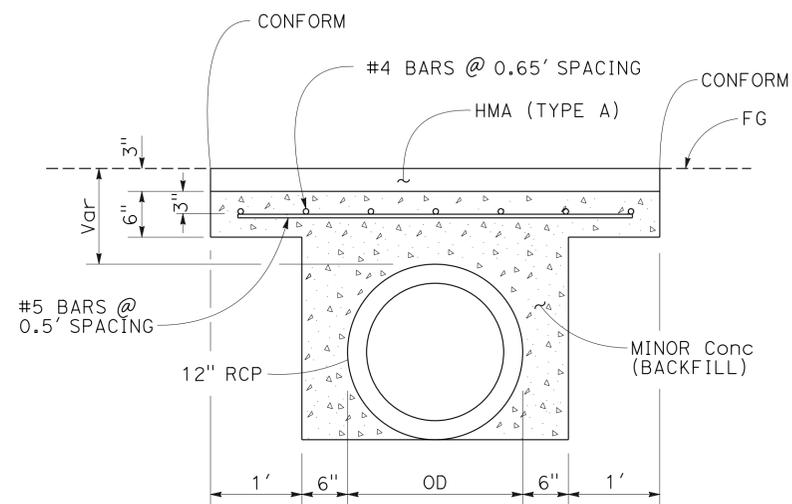


G2 MANHOLE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	MARK MORANCY	REVISOR	DATE
Caltrans	CRAIG TOMIMATSU	CRAIG TOMIMATSU	MM	11/20/13
HYDRAULICS	CHECKED BY			
	DESIGNED BY			

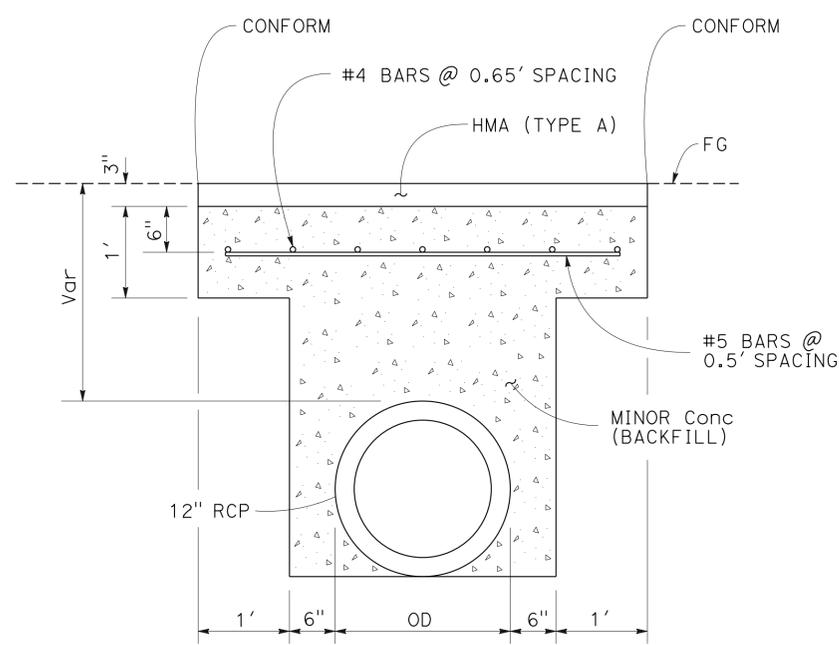
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	10	25
<i>Adrian S. Custodio</i> 2/24/14 REGISTERED CIVIL ENGINEER DATE			3-10-14 PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER Adrian S. Custodio No. 46570 Exp. 6-30-15 CIVIL STATE OF CALIFORNIA			<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	ADRIAN CUSTODIO	REVISOR	AC
Caltrans	ARLISSA PANG	DATE	1/27/14
DESIGN	CHECKED BY	DESIGNED BY	
	ARLISSA PANG		
	FUNCTIONAL SUPERVISOR		
	ARLISSA PANG		



TRENCH CONSTRUCTION DETAIL

1 e g



TRENCH CONSTRUCTION DETAIL

1 c

DRAINAGE DETAILS
NO SCALE

DD-2



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	11	25

Adrian S. Custodio 2/24/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

Adrian S. Custodio
 No. 46570
 Exp. 6-30-15
 CIVIL

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ABBREVIATIONS:

- (N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
- P POSITIVE JOINT TYPE
- W WATERTIGHT JOINT TYPE

DRAINAGE QUANTITIES

DRAINAGE SYSTEM No.	DRAINAGE UNIT	REMOVE CULVERT (PORTION)										DESCRIPTION	STATION	
		LF	12" RCP	MINOR CONCRETE (BACKFILL)	MINOR CONCRETE (MINOR STRUCTURE)	TRENCH EXCAVATION	HOT MIX ASPHALT (TYPE A)	MAXIMUM COVER (N)	MISCELLANEOUS IRON AND STEEL	HEIGHT OF INLET (N)	FRAME AND GRATE (N)			FRAME AND COVER (N)
D-1	a	3											Exist 33" x 64.5' RCP	4' Lt C 20+12.5
	b			2.16				243	4.4				G2 MANHOLE	4' Lt C 20+12.5
	c	92	26.1			7.8	2.9	1203				P,W	12" x 92' RCP	4' Lt C 20+12.5 TO 6' Lt 21+05
	d			1.66				243	3.37				G2 MANHOLE	6' Lt C 21+05
	e	74	17.8			6.4	2.1	975				P,W	12" x 74' RCP	6' Lt C 21+05 TO 6' Lt 21+80
	f			1.53				243	3.13				G2 MANHOLE	6' Lt C 21+80
	g	22	4.1			1.8	2.0	279				P,W	12" x 22' RCP	18' Rt C 21+80 TO 6' Lt 21+80
	h			1.24				239	1.90	24-12X			GO DI	18' Rt C 21+80
	i				30								Exist 2" PVC GAS PIPE	40' Lt C 20+29.5 TO 30' Rt 20+29.5
TOTAL		3	188	48.0	6.60	30	16.0	3425						

DRAINAGE QUANTITIES
DQ-1

LAST REVISION DATE PLOTTED => 09-APR-2014 03-05-14 TIME PLOTTED => 15:17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 ARLISSA PANG

CALCULATED/DESIGNED BY
 CHECKED BY

DANIEL HAILE
 ADRIAN CUSTODIO

REVISED BY
 DATE REVISED

DH
 11/27/13

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

LEGEND:

UTILITY	SYMBOL	OWNERSHIP
WATER	—w—	EAST BAY MUNICIPAL UTILITY DISTRICT (EBMUD)
SEWER	---s---	EAST BAY MUNICIPAL UTILITY DISTRICT (EBMUD)
GAS	—g—	PACIFIC GAS AND ELECTRIC (PG&E)
TELEVISION	---tv---	COMCAST
ELECTRIC	—e—	ALAMEDA MUNICIPAL POWER
PIPE OF UNKNOWN FUNCTION	-----	
Exist UTILITY BOX	⊙	
POTHOLE LOCATION NUMBER	⬡ No.	
POTHOLE LOCATION	⊙	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	12	25

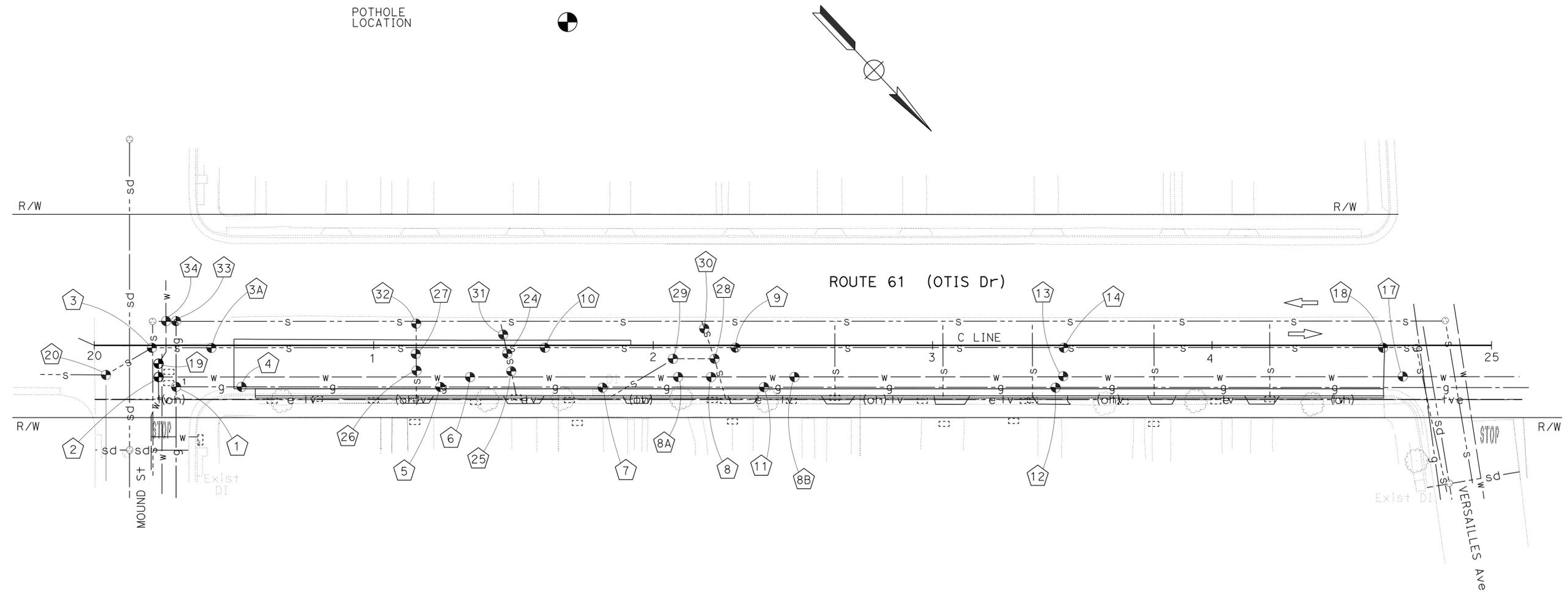
Adrian S. Custodio 2/24/14
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3-10-14
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Adrian S. Custodio
 No. 46570
 Exp. 6-30-15
 CIVIL

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NOTE:
 1. LOCATIONS OF UTILITY FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.



APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
 SCALE: 1" = 20'

U-1

LAST REVISION DATE PLOTTED => 09-APR-2014 02-25-14 TIME PLOTTED => 15:17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 ARLISSA PANG

CALCULATED/DESIGNED BY
 CHECKED BY

DANIEL HAILE
 ADRIAN CUSTODIO

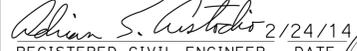
REVISED BY
 DATE REVISED

DH
 11/27/13

POTHOLE LOCATION TABLE

No. 	DEPTH OF UTILITY	DESCRIPTION OF UTILITY	LOCATION
	(IN)		
1	51"	2" PLASTIC (PVC) GAS PIPE	14.8' R+ C 20+29.3
1	52"	3" PLASTIC (PVC) GAS PIPE	14.8' R+ C 20+29.3
2	31"	6" ASBESTOS CEMENT WATER PIPE	11.2' R+ C 20+23
3	6"	DRILLING HITS Conc	1' R+ C 20+20.6
3A	62"	24" Conc SEWER PIPE	1' R+ C 20+42
4	29"	2" PLASTIC (PVC) GAS PIPE	14.8' R+ C 20+52.5
4	31"	3" PLASTIC (PVC) GAS PIPE	14.8' R+ C 20+52.5
5	38"	3" PLASTIC (PVC) GAS PIPE	14.1' R+ C 21+23.9
6	35"	8" (9" OD) STEEL WATER PIPE	11.9' R+ C 21+34.5
7	39"	3" PLASTIC (PVC) GAS PIPE	14.9' R+ C 21+82
8	36"	DRILLING HITS Conc	12' R+ C 22+20.7
8A	36"	8" (9" OD) STEEL WATER PIPE	11.8' R+ C 22+09
8B	30"	8" (9" OD) STEEL WATER PIPE	11.7' R+ C 22+50.6
9	45"	24" Conc SEWER PIPE	1.4' R+ C 22+29.5
10	45"	24" Conc SEWER PIPE	1.5' R+ C 21+61.2
11	38"	3" PLASTIC (PVC) GAS PIPE	14.6' R+ C 22+39.7
12	41"	3" PLASTIC (PVC) GAS PIPE	14.5' R+ C 23+44
13	39"	8" (9" OD) STEEL WATER PIPE	12' R+ C 23+46.8
14	47"	24" Conc SEWER PIPE	1' R+ C 23+47
17	40"	DRILLING HITS Conc	10' R+ C 24+68
18	46"	DRILLING HITS Conc	0.3' R+ C 24+61
19	37"	8" (9" OD) STEEL WATER PIPE	6.5' R+ C 20+23
20	75"	24" Conc SEWER PIPE	10' R+ C 20+04
24	36"	4" PLASTIC (PVC) SEWER PIPE	1.4' R+ C 21+47.5
25	29"	4" PLASTIC (PVC) SEWER PIPE	9' R+ C 21+49
26	25"	4" PLASTIC (PVC) SEWER PIPE	9' R+ C 21+15.4
27	31"	4" PLASTIC (PVC) SEWER PIPE	3' R+ C 21+15
28	40"	4" PLASTIC (PVC) SEWER PIPE	5' R+ C 22+22
29	31"	6" STEEL PIPE (UNKNOWN FUNCTION)	5.5' R+ C 22+07
30	51"	4" PLASTIC (PVC) SEWER PIPE	5.7' L+ C 22+18.3
31	48"	4" PLASTIC (PVC) SEWER PIPE	8' L+ C 21+46.3
32	45"	4" PLASTIC (PVC) SEWER PIPE	7.2' R+ C 21+15
33	43"	2" PLASTIC (PVC) GAS PIPE	9' L+ C 20+29
34	38"	6" ASBESTOS CEMENT WATER PIPE	9' L+ C 20+26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	13	25

 2/24/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Adrian S. Custodio
 No. 46570
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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

UTILITY PLAN
 NO SCALE

U-2

LAST REVISION | DATE PLOTTED => 09-APR-2014
 02-27-14 TIME PLOTTED => 15:17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: LOURDES DAVID
 RACHEL LIU
 REVISOR: LOURDES DAVID
 DATE: 12/3/13
 RL

NOTES:

1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
2. CONSTRUCTION AREA SIGNS ARE STATIONARY MOUNTED UNLESS OTHERWISE NOTED.

LEGEND:

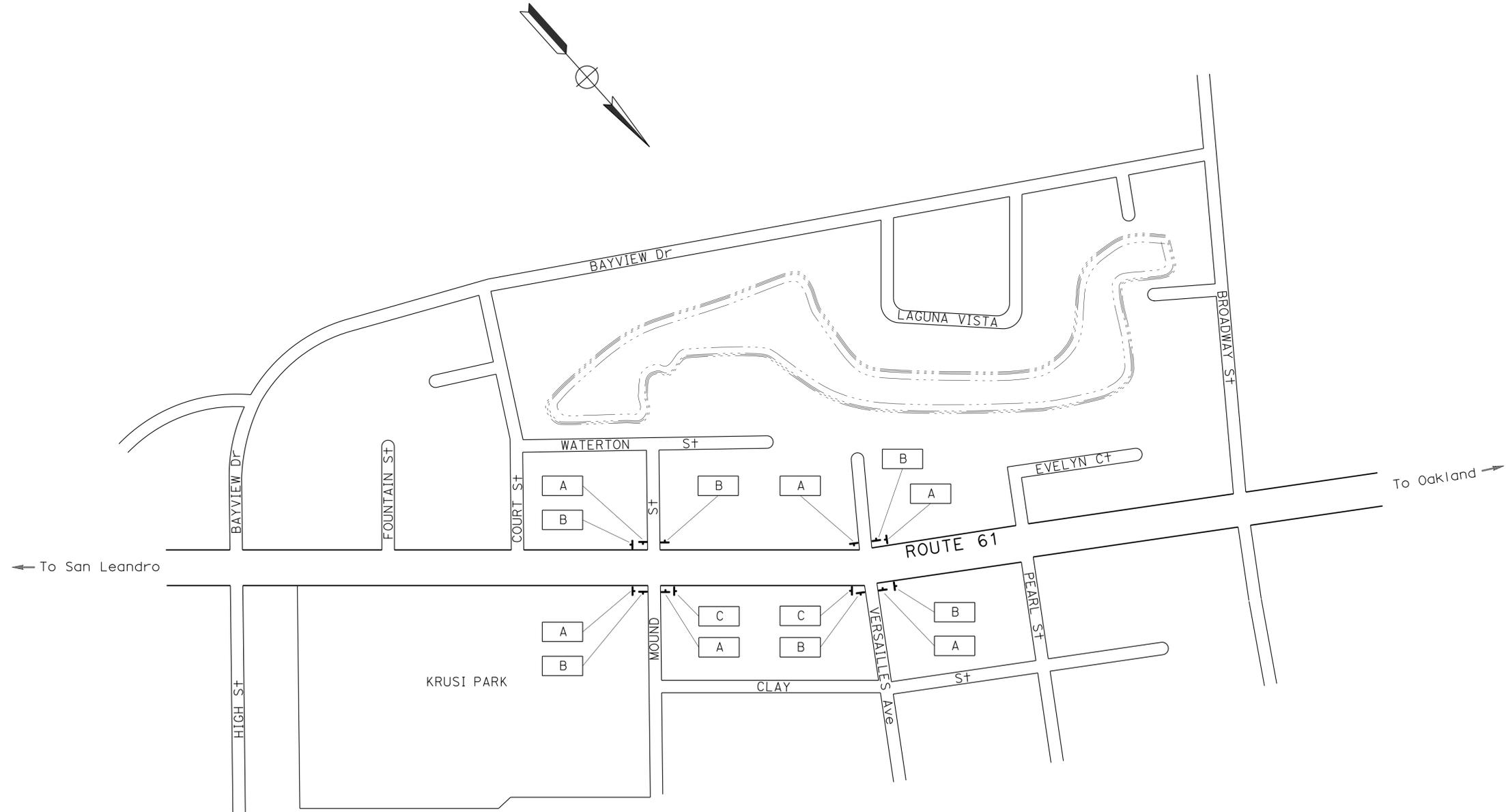
□ CONSTRUCTION AREA SIGN LETTER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	14	25

REGISTERED CIVIL ENGINEER DATE: 2/20/14
 PLANS APPROVAL DATE: 3-10-14

Rachel Liu
 No. 74807
 Exp. 12-31-15
 CIVIL

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CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

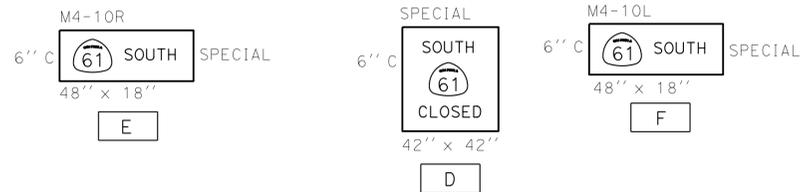
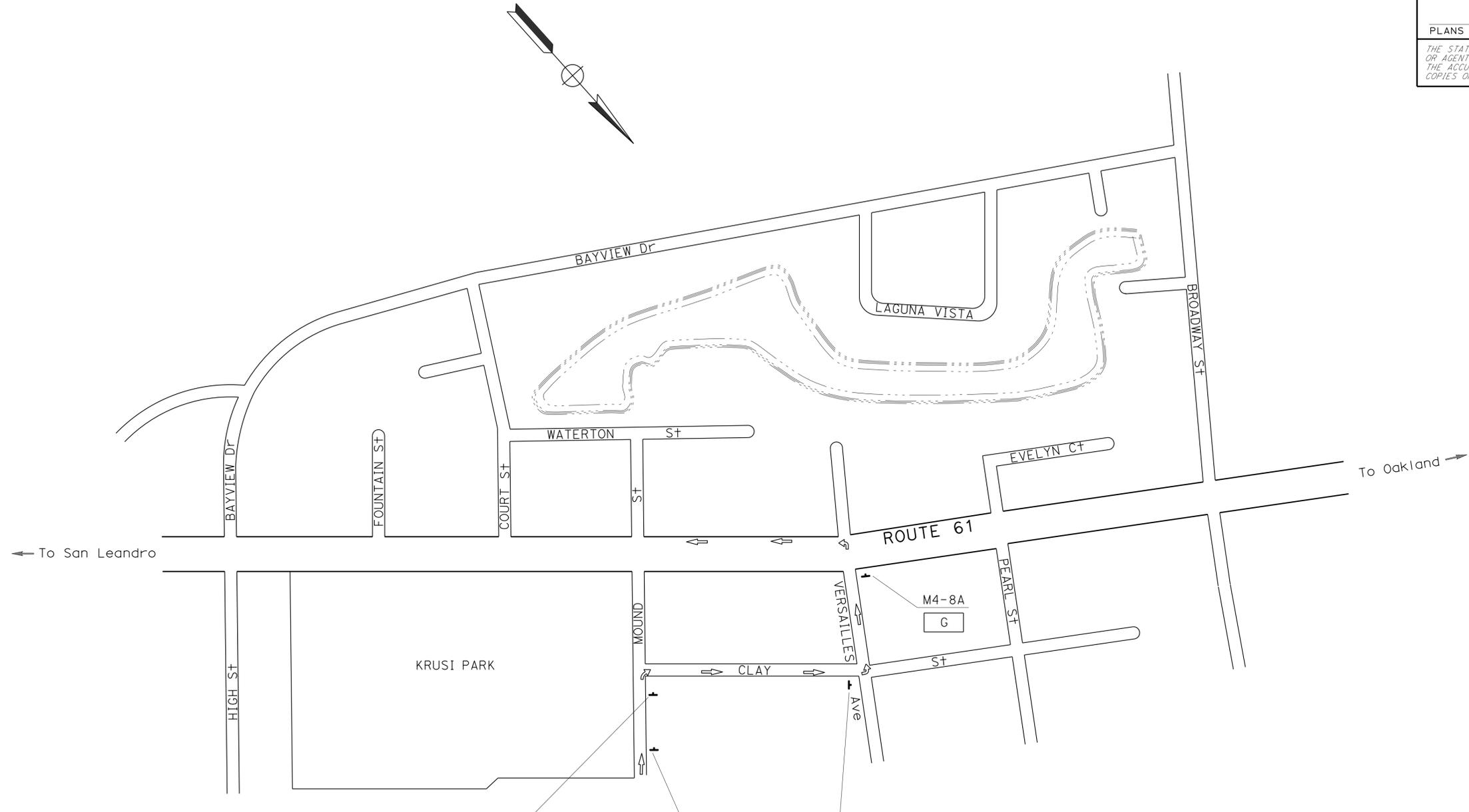
CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	15	25

Adrian S. Custodio 3/4/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Adrian S. Custodio
 No. 46570
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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DETOUR PLAN

SOUTHBOUND OTIS DRIVE CLOSED
 HEAD WEST ON MOUND St TOWARDS CLAY St
 TURN RIGHT ONTO CLAY St
 TURN LEFT ONTO VERSAILLES Ave
 TURN LEFT ONTO OTIS Dr

CONSTRUCTION AREA SIGNS
NO SCALE

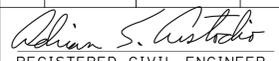
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: ARLISSA PANG
 CALCULATED/DESIGNED BY: DANIEL HAILE
 CHECKED BY: ADRIAN CUSTODIO
 REVISED BY: DH
 DATE REVISED: 11/27/13

LAST REVISION DATE PLOTTED => 09-APR-2014
 02-25-14 TIME PLOTTED => 15:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	16	25
 REGISTERED CIVIL ENGINEER DATE 3/4/14					
PLANS APPROVAL DATE			3-10-14		
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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 FUNCTIONAL SUPERVISOR
 ARLISSA PANG
 CALCULATED/DESIGNED BY
 CHECKED BY
 DANIEL HAILE
 ADRIAN CUSTODIO
 REVISED BY
 DATE REVISED
 DH
 11/27/13

CONSTRUCTION AREA SIGNS

SIGN	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	No. OF SIGNS
A	W20-1	ROAD WORK AHEAD	36" x 36"	(ONE) 4" x 6"	6
B	G20-2	END ROAD WORK	36" x 18"	(ONE) 4" x 4"	6
C	R9-11A	SIDEWALK CLOSED CROSS HERE	24" x 12"	(ONE) 4" x 4"	2
D	SPECIAL	SOUTH ROUTE 61 CLOSED	42" x 42"	(ONE) 4" x 4"	1
E	M4-10R	DETOUR RIGHT ARROW	48" x 18"	(ONE) 4" x 6"	1
	SPECIAL	ROUTE 61 SOUTH	48" x 18"		
F	M4-10L	DETOUR LEFT ARROW	48" x 18"	(ONE) 4" x 6"	1
	SPECIAL	ROUTE 61 SOUTH	48" x 18"		
G	M4-8A	END DETOUR	24" x 18"	(ONE) 4" x 4"	1

CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 ARLISSA PANG

CALCULATED/DESIGNED BY
 CHECKED BY

ADRIAN CUSTODIO
 ARLISSA PANG

REVISED BY
 DATE REVISED

AC
 11/27/13

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

NOTES:

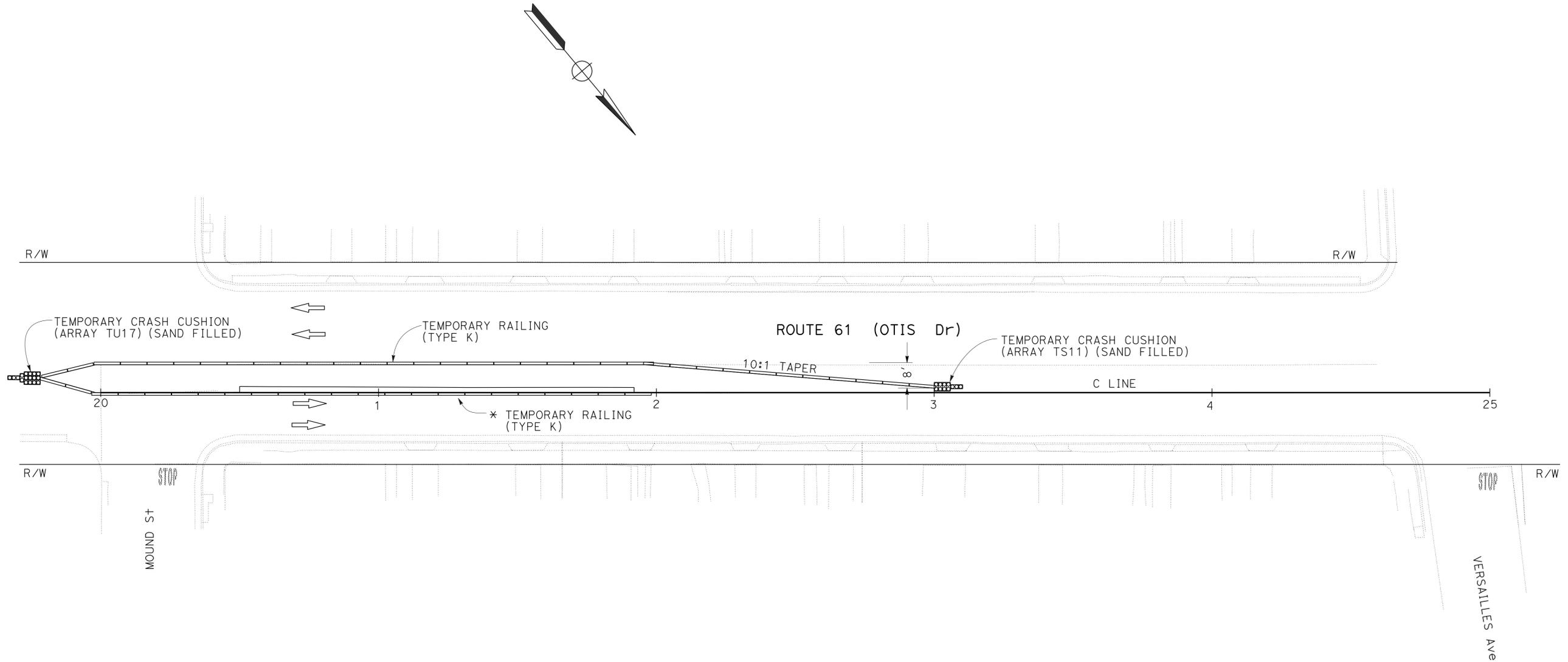
- * THIS SIDE TEMPORARY RAILING SHALL BE REMOVED AFTER WORK HOURS AND SHALL BE REPLACED WITH DELINEATORS. TRENCH WILL BE COVERED WITH STEEL PLATES.
- ** TEMPORARY RAILING PIECE SHALL BE REMOVED AFTER WORK HOURS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	17	25

Adrian S. Custodio 3/4/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Adrian S. Custodio
 No. 46570
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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TRAFFIC HANDLING PLAN
 SCALE: 1" = 20'

APPROVED FOR TRAFFIC HANDLING WORK ONLY

TH-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	18	25

Adrian S. Custodio 3/4/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Adrian S. Custodio
 No. 46570
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

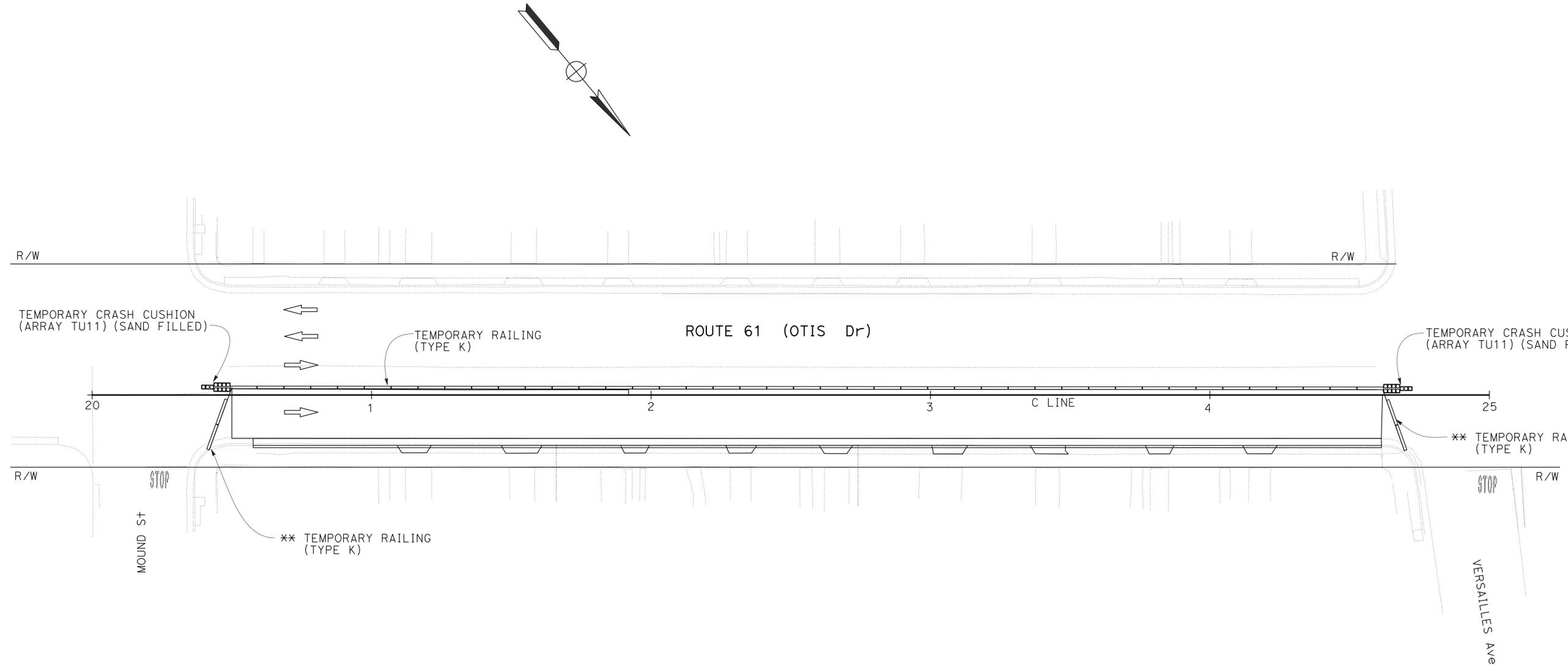
FUNCTIONAL SUPERVISOR
 ARLISSA PANG

CALCULATED/DESIGNED BY
 CHECKED BY

ADRIAN CUSTODIO
 ARLISSA PANG

REVISED BY
 DATE REVISED

AC
 11/27/13

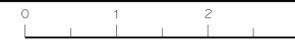


APPROVED FOR TRAFFIC HANDLING WORK ONLY

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

TRAFFIC HANDLING PLAN
 SCALE: 1" = 20'

TH-2



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

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 CHECKED BY: ADRIAN CUSTODIO
 REVISIONS: 11/27/13
 REVISIONS: 11/27/13
 REVISIONS: 11/27/13

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

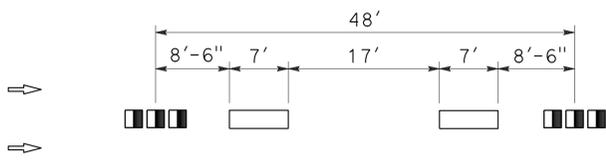
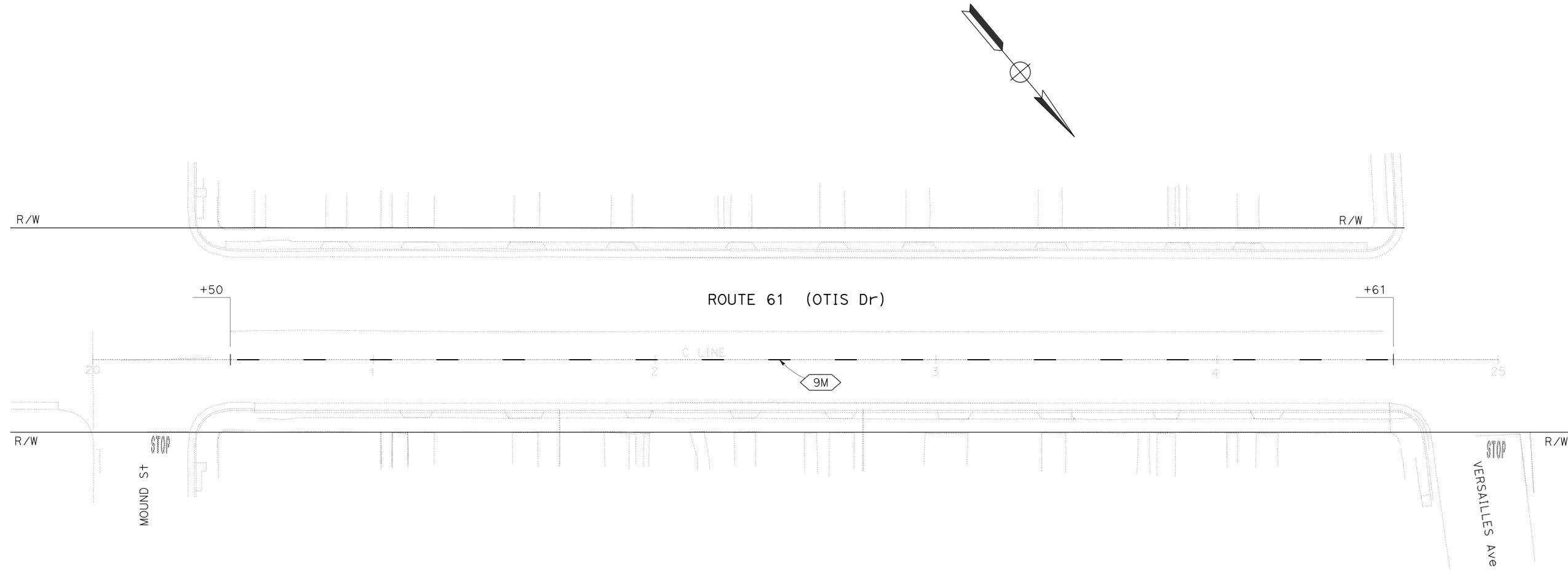
LEGEND:
 4" WHITE THERMOPLASTIC
 TYPE G ONE-WAY CLEAR RETROREFLECTIVE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	19	25

Adrian S. Custodio 2/24/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

Adrian S. Custodio
 No. 46570
 Exp. 3-30-15
 CIVIL

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DETAIL 9M

PAVEMENT DELINEATION PLAN
 SCALE: 1" = 20'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PD-1

LAST REVISION DATE PLOTTED => 09-APR-2014 02-25-14 TIME PLOTTED => 15:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	20	25

Adrian S. Custodio 2/24/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

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

ROADWAY QUANTITIES

STATION	ROADWAY EXCAVATION	ROADWAY EMBANKMENT (N)	TRENCH EXCAVATION	REMOVE CONCRETE (CURB AND GUTTER)	COLD PLANE AC PAVEMENT	HOT MIX ASPHALT (TYPE A)	MINOR CONCRETE (CURB & GUTTER)	MINOR CONCRETE (DRIVEWAY)
	CY			SQYD	TON	CY		
C 20+50 TO 24+61	244	7		32	32	527	28	5
FROM DRAINAGE QUANTITIES			30			16		
TOTAL	244	7	30	32	32	743	28	5

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

PAVEMENT DELINEATION QUANTITIES

STATION	REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)
	EA		LF
C 20+50 TO 24+61	30	30	420
TOTAL	30	30	420

TEMPORARY TRAFFIC CONTROL

STATION	TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION
	LF	EA
C 19+50 TO 24+90	540	4
TOTAL	540	4

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

STATION	TEMPORARY DRAINAGE INLET PROTECTION
	EA
C 20+00 TO 25+00	4
TOTAL	4

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: ARLISSA PANG
 CALCULATED/DESIGNED BY: DANIEL HAILE
 CHECKED BY: ADRIAN CUSTODIO
 REVISED BY: DH
 DATE REVISED: 11/27/13



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

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

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

	T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	U
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	V
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	W
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
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
04	Ala	61	19.2	21	25

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 3-10-14

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
∅	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

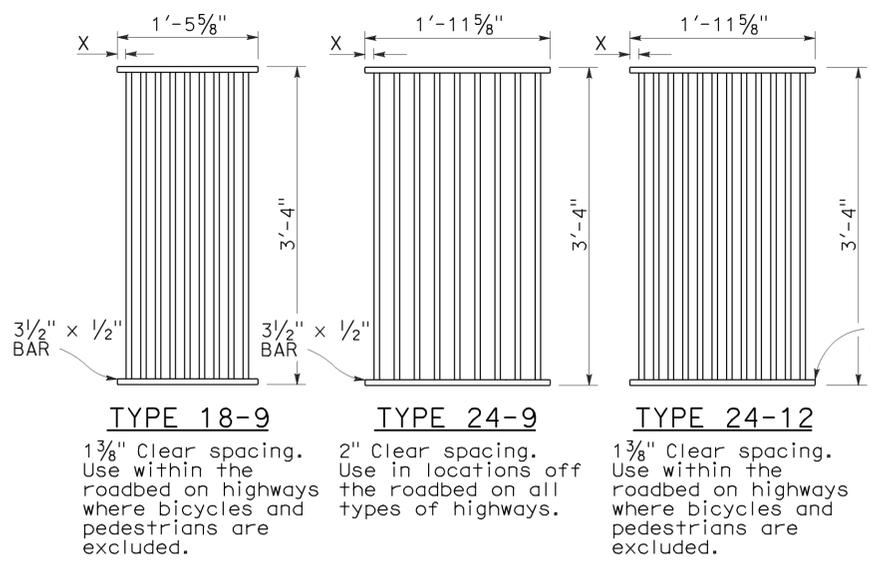
* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

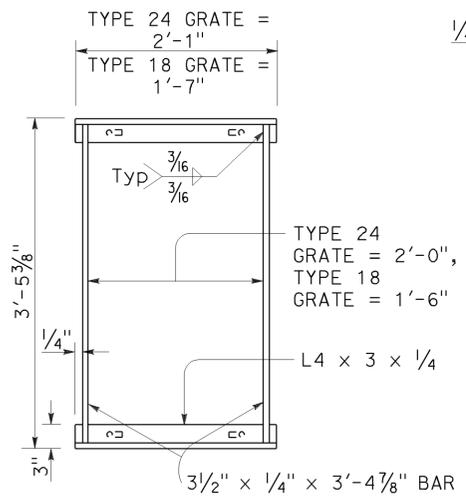
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

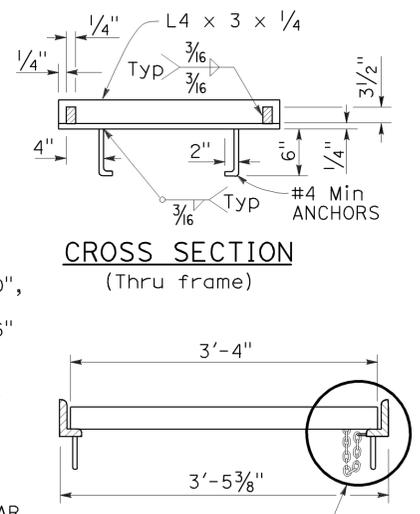
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.



RECTANGULAR GRATE DETAILS
(See table below)



TYPICAL FRAME



CROSS SECTION
(Thru frame)

LONGITUDINAL SECTION
(Thru frame and grate)

RECTANGULAR FRAME DETAILS
(For all rectangular grates)

GRATE BAR SPACING TABLE

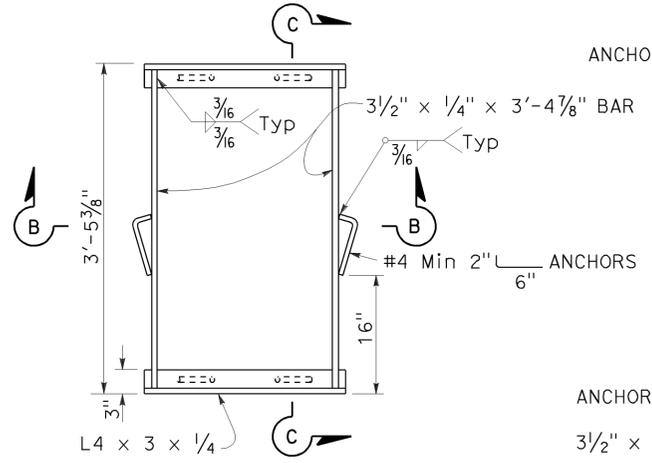
TYPE	NO. OF BARS	CLEAR BAR SPACING	X
18-9	9	1 3/8"	1 1/16"
24-9	9	2"	1 9/16"
24-12	12	1 3/8"	1 1/4"

INLET TYPE	COVER TYPE	WEIGHT LB
OS	PLATE	174
OL-7	PLATE	170
OL-10	PLATE	170
OL-14	PLATE	170
OL-21	PLATE	170
OCPI	PLATE	112
OCPI	REDWOOD	42
OMP	PLATE	177
OMPI	PLATE	177

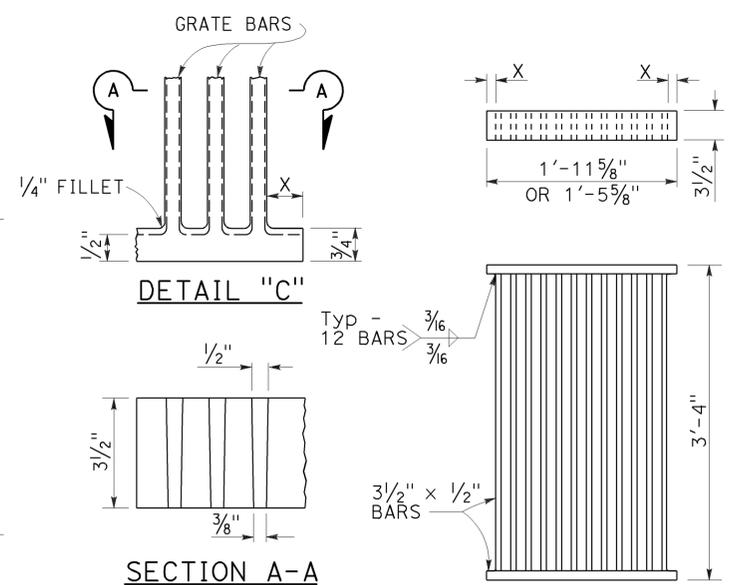
INLET TYPE	GRATE TYPE	NO. OF GRATES	WEIGHT LB
GDO	24-12	2	634
GOL-7	24-12	1	326
GOL-10	24-12	1	326
G0,G1,G2,G3,G4 (TYPE 24)	24-9	1	263
	24-12	1	326
G4 (TYPE 18),G5,G6	18-9	1	249
GT1	18-9	2	498
GT2	18-9	2	498
GT3	24-12	2	652
GT4	24-12	2	652
TRASH RACK			22
GRATE CHAIN			3

BASIS FOR MISC IRON & STEEL FINAL PAY WEIGHTS FOR DRAINAGE INLETS
(See Note 7)

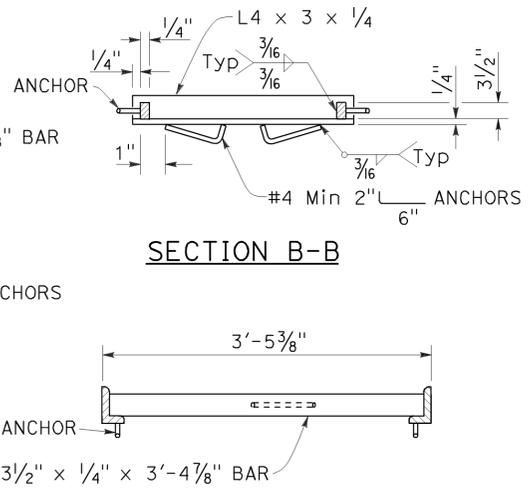
ALTERNATIVE CAST DUCTILE IRON GRATE OR CAST CARBON STEEL GRATE



TYPICAL FRAME
ALTERNATIVE ANCHOR FOR RECTANGULAR FRAME
(For details not shown, See Rectangular Frame Details)

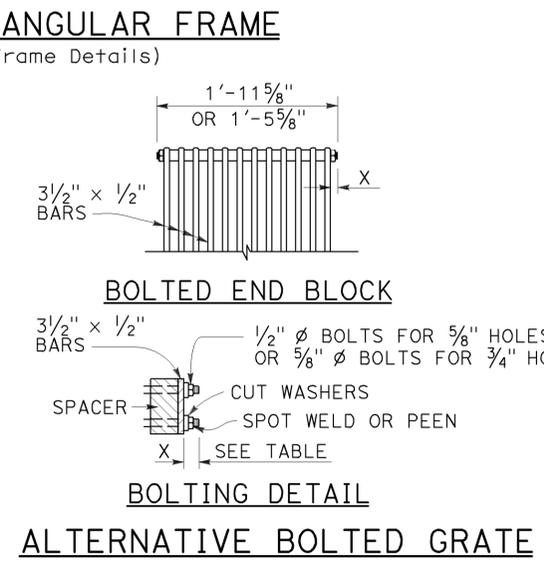


ALTERNATIVE WELDED GRATE



SECTION B-B

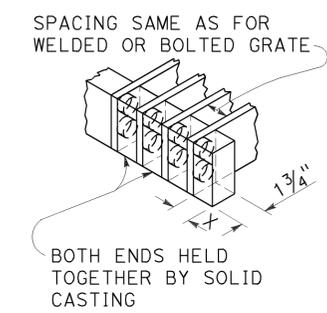
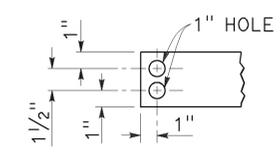
SECTION C-C



BOLTED END BLOCK

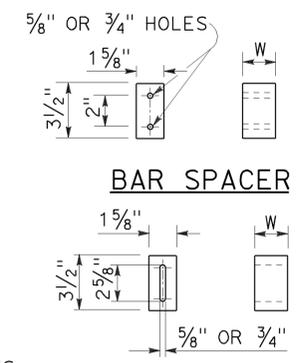
BOLTING DETAIL
ALTERNATIVE BOLTED GRATE

CAST END BLOCK



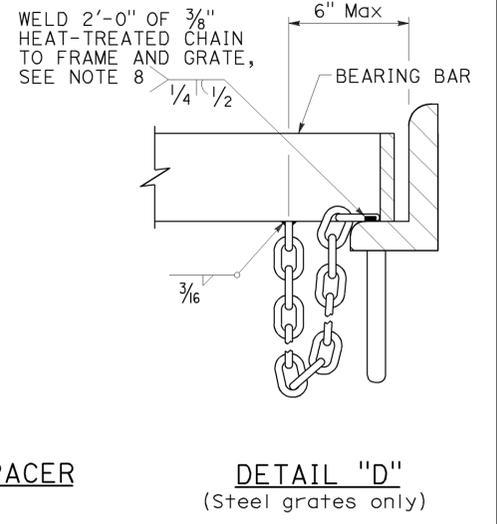
END OF BAR

ALTERNATIVE CAST DUCTILE IRON OR CAST CARBON STEEL END BLOCK GRATE



BAR SPACER

ALTERNATIVE SPACER
W = 1 3/8" or 2"



DETAIL "D"
(Steel grates only)

NOTES:

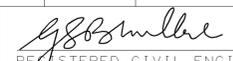
- Grate type numbers refer to approximate width of grate in inches and number of bars, respectively.
- Contractor has the option of using cast ductile iron, cast carbon steel, welded, bolted, or cast end block grate.
- Rounded top of bars optional on all grates.
- Pipe inlets with a grate shall be placed so that bars parallel direction of principle surface flow.
- Complete joint penetration butt welds may be substituted for the fillet welds on all anchors.
- Standard square, hexagon, round or equivalent headed anchors may be substituted for the right angle hooks on the anchors shown on this plan.
- Grate and frame weights are based on welded grates (weights of face angles, steps, protection bars, etc. are not included).
- Connect chain to grate and frame only at locations shown on the plans. When chain is required, do not use cast ductile iron grates.

GRATE DETAILS No. 1
NO SCALE

RSP D77A DATED APRIL 19, 2013 SUPERSEDES RSP D77A DATED JULY 20, 2012 AND STANDARD PLAN D77A DATED MAY 20, 2011 - PAGE 164 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP D77A

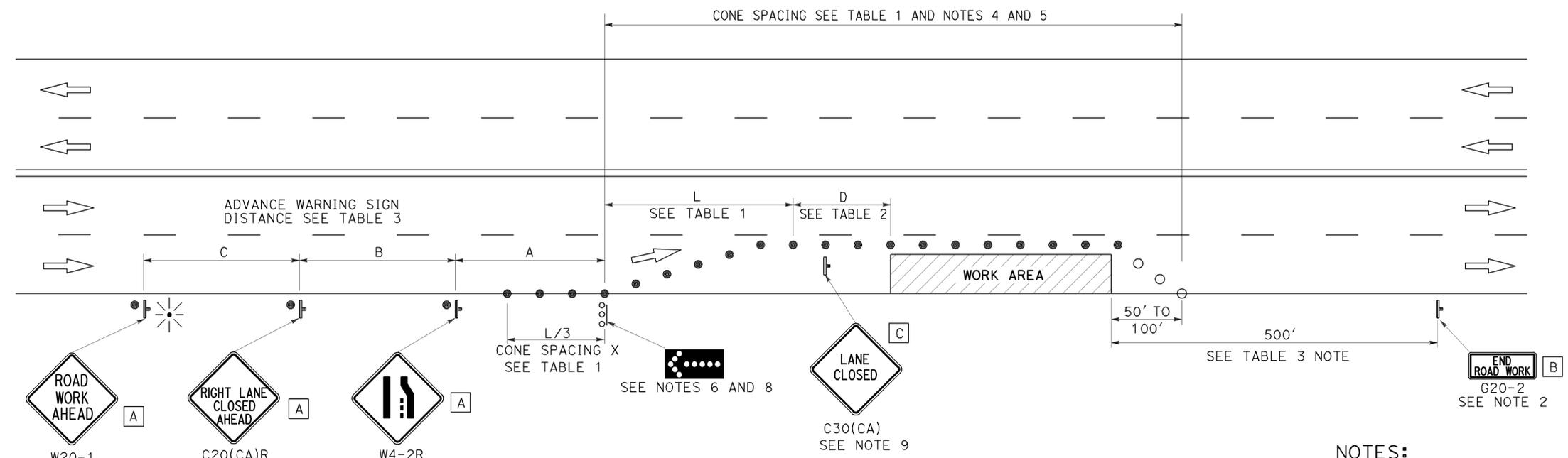
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	24	25


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE



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

TO ACCOMPANY PLANS DATED 3-10-14



TYPICAL LANE CLOSURE

NOTES:

See Revised Standard Plan RSP T9 for tables.

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

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

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

NOTES:

- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow sign shall be either Type I or Type II.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
-  FLASHING ARROW SIGN (FAS)
-  FAS SUPPORT OR TRAILER
-  PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
MULTILANE CONVENTIONAL
HIGHWAYS**

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	61	19.2	25	25

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

April 19, 2013
 PLANS APPROVAL DATE

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

LEGEND

- TRAFFIC CONE
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

NOTES:

See Revised Standard Plan RSP T9 for tables.

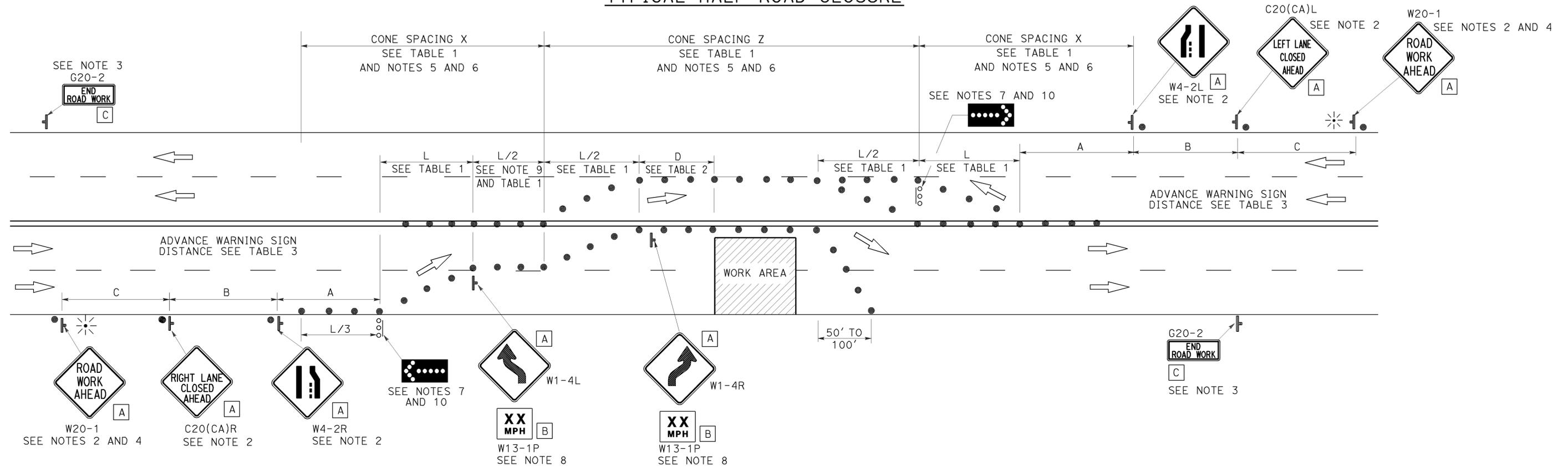
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

TO ACCOMPANY PLANS DATED 3-10-14

TYPICAL HALF ROAD CLOSURE



NOTES:

1. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
2. 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.
3. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow signs shall be either Type I or Type II.
8. Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
9. Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
10. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR HALF ROAD CLOSURE ON
MULTILANE CONVENTIONAL
HIGHWAYS AND EXPRESSWAYS**

NO SCALE

RSP T12 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T12 DATED MAY 20, 2011 - PAGE 240 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T12

2010 REVISED STANDARD PLAN RSP T12