

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2-3	TYPICAL CROSS SECTIONS
4-5	LAYOUT PLANS
6-8	DRAINAGE PLAN, DETAILS AND QUANTITIES
9-10	UTILITY PLANS
11-15	CONSTRUCTION AREA SIGNS
16-17	MOTORIST INFORMATION PLAN AND QUANTITIES
18-21	STAGE CONSTRUCTION PLANS AND QUANTITIES
22-25	PAVEMENT DELINEATION PLANS, DETAILS AND QUANTITIES
26	SUMMARY OF QUANTITIES
27-28	ELECTRICAL PLANS
29-43	REVISED STANDARD PLANS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ALAMEDA COUNTY
IN BERKELEY
FROM SAN PABLO AVENUE
TO 0.1 MILE EAST OF BAY STREET OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	1	43

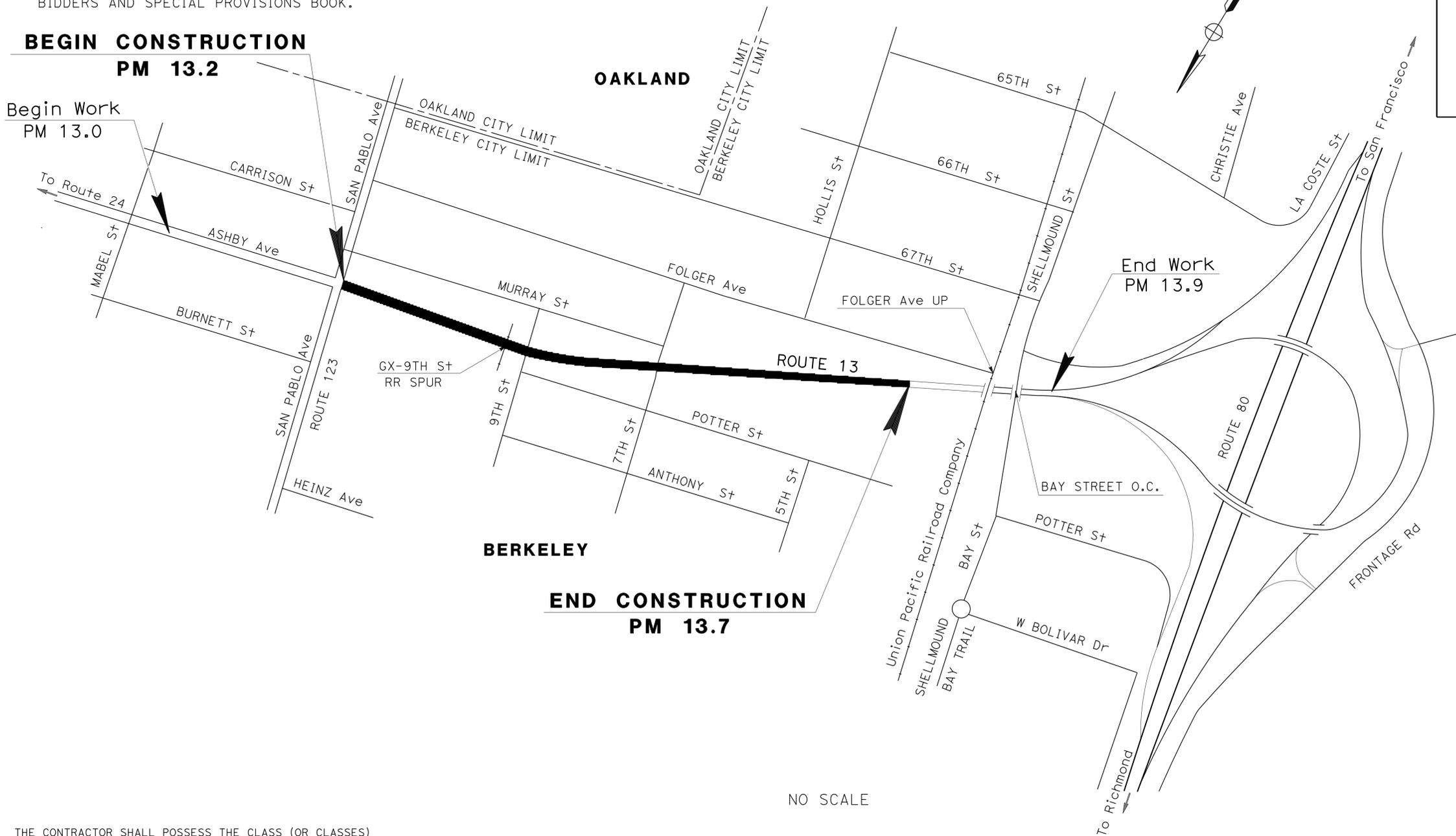




LOCATION MAP

BEGIN CONSTRUCTION
PM 13.2

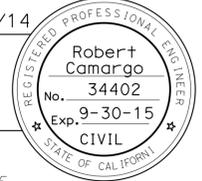
Begin Work
 PM 13.0



PROJECT MANAGER RAMSES SARGISS	DESIGN MANAGER RAMSES SARGISS
-----------------------------------	----------------------------------

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

Robert Camargo 3/10/14
 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.	04-4G4004
PROJECT ID	0412000449

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: LITO BASA
 CHECKED BY: ROBERT CAMARGO
 REVISIONS: LB 3/10/14

NOTES:

- FOR LOCATION AND DIMENSION OF REPLACE AC SURFACING, SEE LAYOUT PLANS.
- BETWEEN GX-9TH STREET RR SPUR AND SAN PABLO AVENUE, PLACE FINAL 0.10' HMA (TYPE A) CONCURRENTLY WITH ADJACENT LOCATION WHERE 0.10' HMA (TYPE A) IS PLACED AFTER 0.10' COLD PLANE AC PAVEMENT.
- APPLY PRIME COAT ON TOP OF AB BEFORE PLACING HMA.

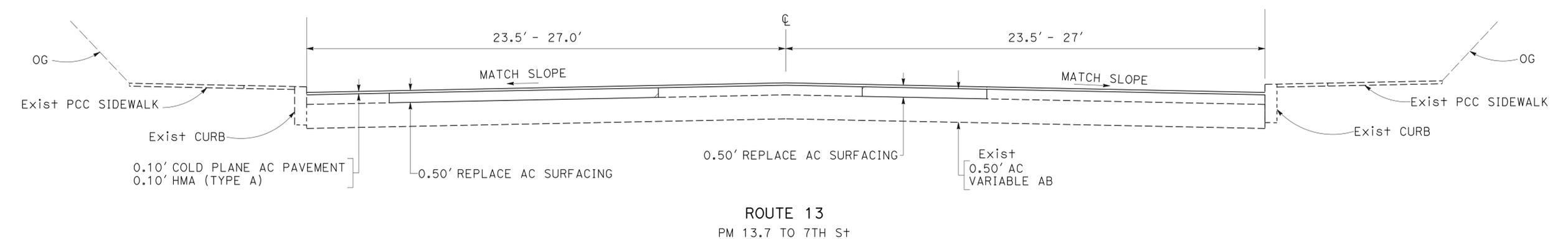
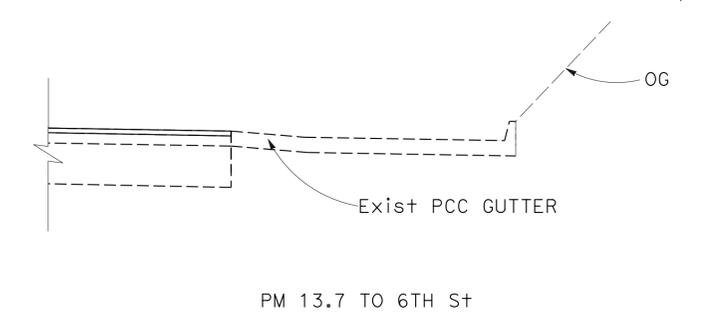
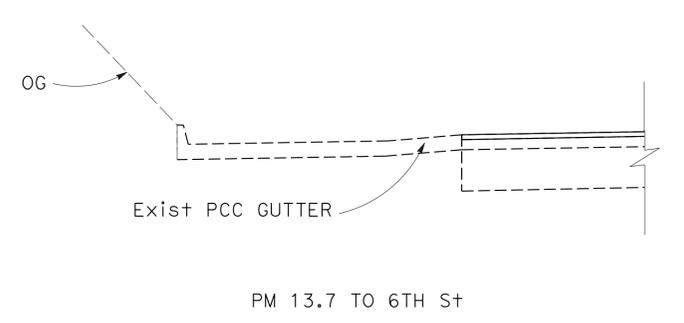
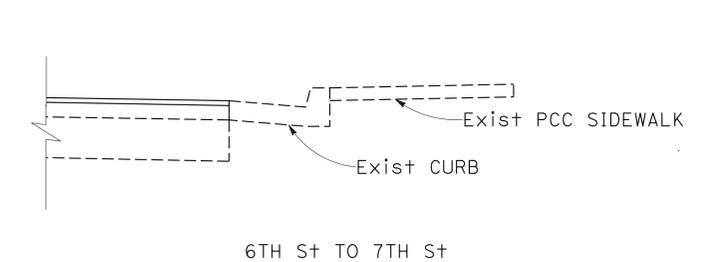
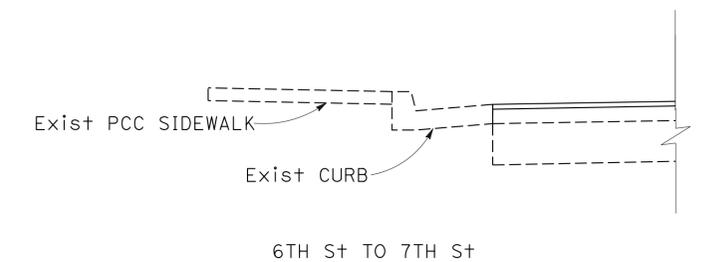
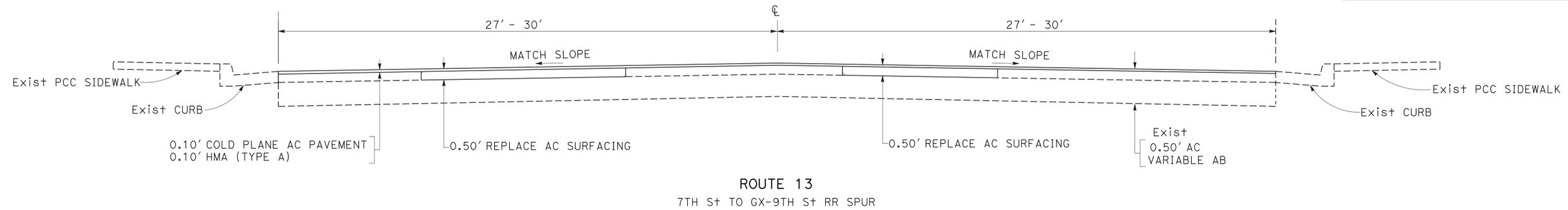
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	2	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
 PLANS APPROVAL DATE

Robert Camargo
 No. 34402
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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TYPICAL CROSS SECTIONS
 NO SCALE

X-1

LAST REVISION DATE PLOTTED => 21-MAR-2014
 03-10-14 TIME PLOTTED => 11:14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED/DESIGNED BY
 CHECKED BY

LITO BASA
 ROBERT CAMARGO

REVISED BY
 DATE REVISED

LB
 3/10/14

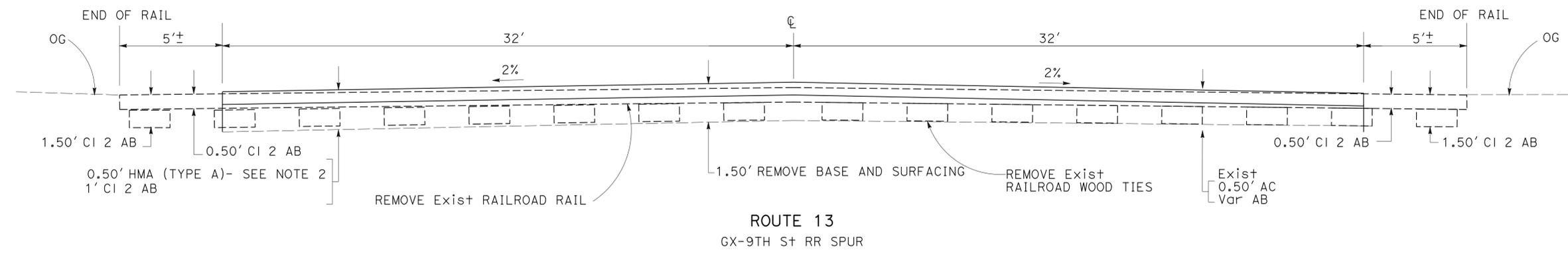
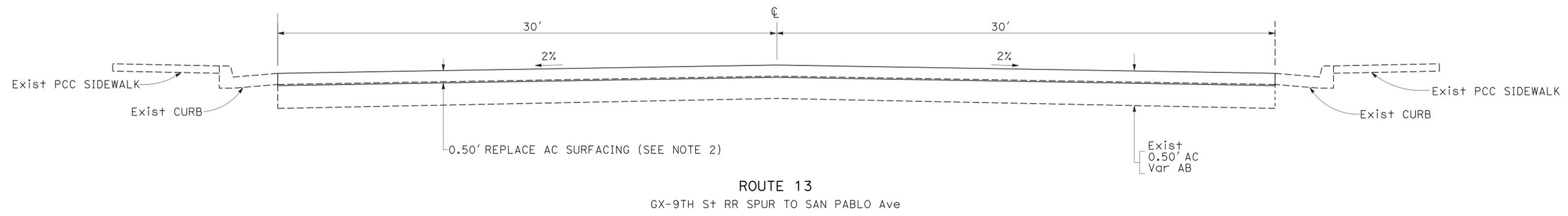
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04	Ala	13	13.2/13.7	3	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
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Robert Camargo
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TYPICAL CROSS SECTIONS
 NO SCALE

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED/DESIGNED BY
 CHECKED BY

LITO BASA
 ROBERT CAMARGO

REVISOR BY
 DATE REVISED

LB
 3/10/14

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

NOTE:
 1. EXACT LOCATION AND DIMENSION OF REPLACE AC SURFACING WORK TO
 TO BE DETERMINED BY THE ENGINEER.

- LEGEND:**
-  0.10' COLD PLANE AC PAVEMENT
 -  0.10' HMA (TYPE A)
 -  0.50' REPLACE AC SURFACING
 -  0.50' HMA (TYPE A)
 -  1.00' CI 2 AB

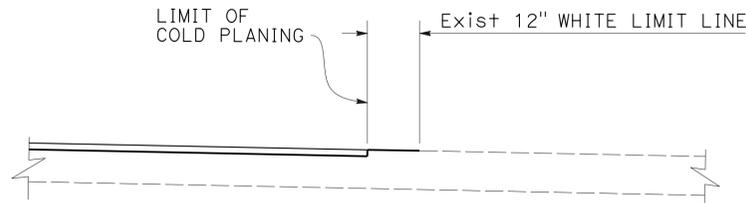
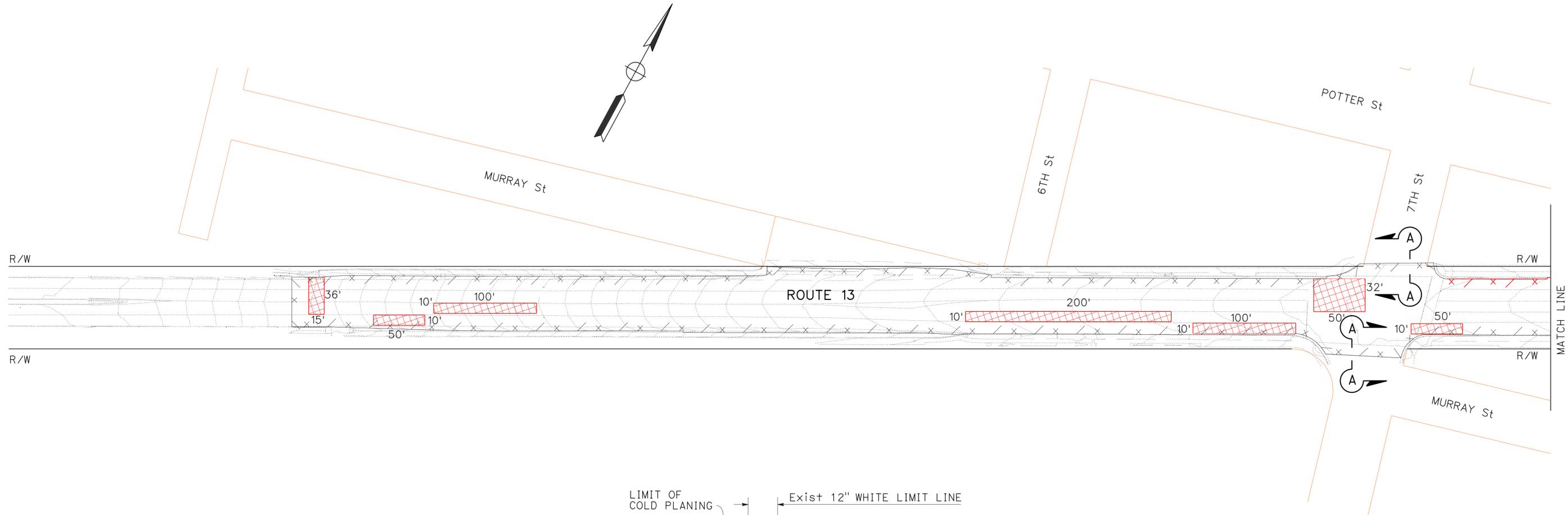
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	4	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
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Robert Camargo
 No. 34402
 Exp. 9-30-15
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SECTION A-A
 LIMIT OF COLD PLANING
 AT STREET INTERSECTIONS

LAYOUT
 SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans MAINTENANCE	FUNCTIONAL SUPERVISOR	RAMSES SARGISS
	CALCULATED/DESIGNED BY	CHECKED BY
LITO BASA	REVISOR	ROBERT CAMARGO
LB	REVISOR	DATE
		3/10/14

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

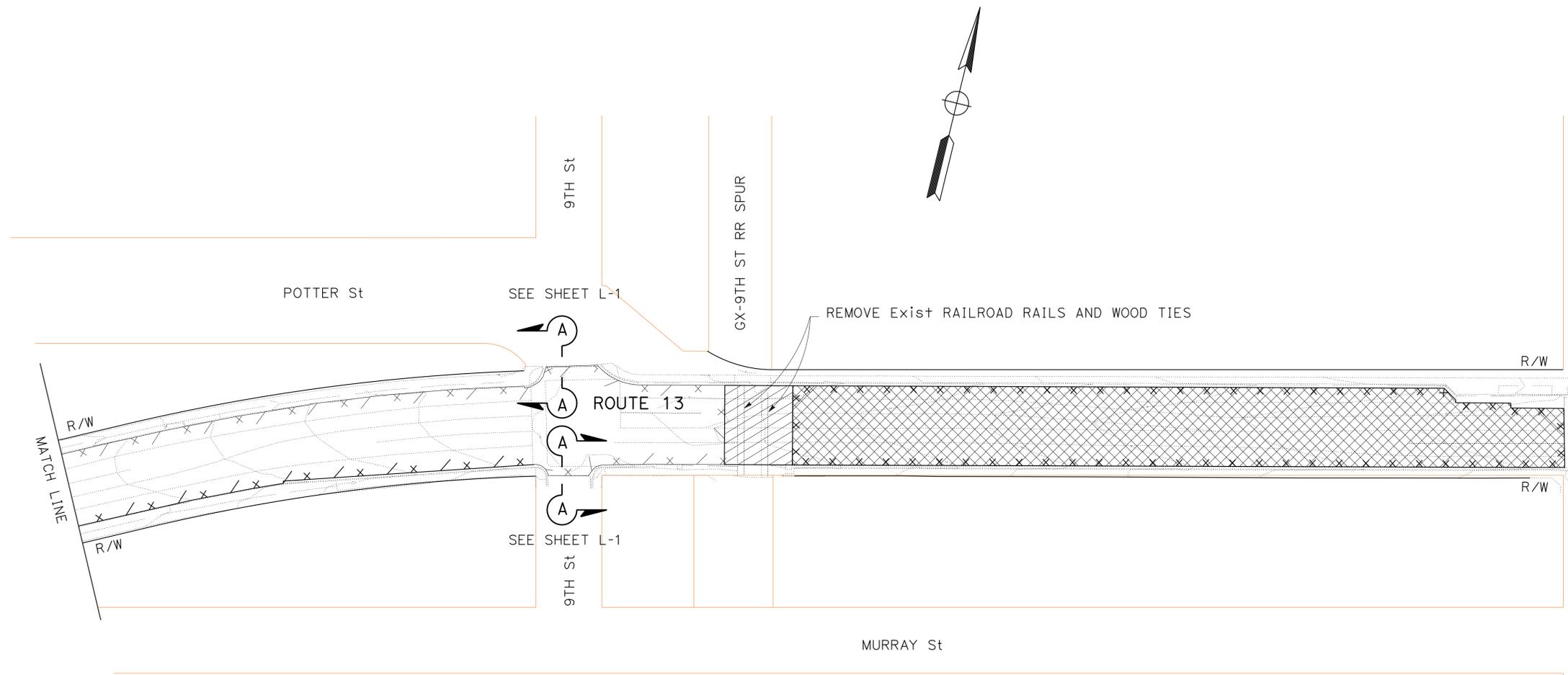
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	5	43

Robert Camargo 3/10/14
REGISTERED CIVIL ENGINEER DATE

3-10-14
PLANS APPROVAL DATE

Robert Camargo
No. 34402
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

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

LAYOUT
SCALE: 1" = 50'

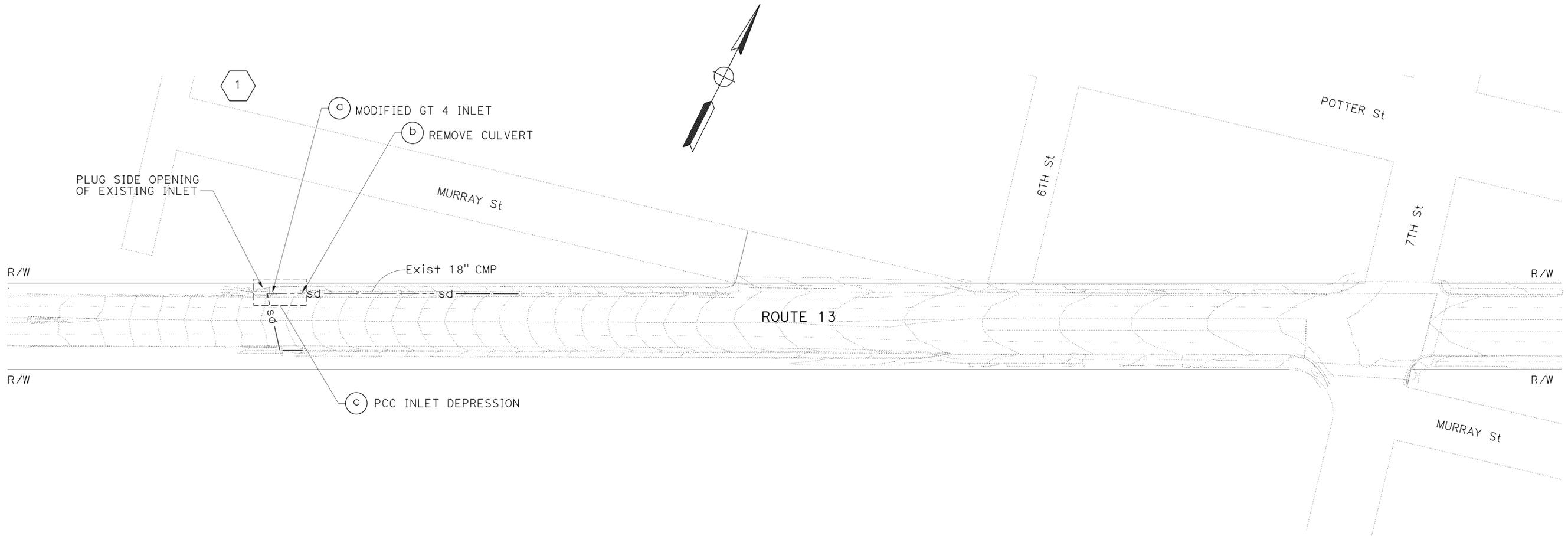
L-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	6	43
Robert Camargo			3/10/14		
REGISTERED CIVIL ENGINEER			DATE		
3-10-14			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTES:

- 1- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- 2- PROVIDE POSITIVE DRAINAGE FROM ALL ROADWAY AREA AT ALL TIMES.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	LITO BASA	REVISOR	LB
Caltrans	RAMSES SARGISS	CHECKED BY	ROBERT CAMARGO	DATE	3/10/14
MAINTENANCE					



DRAINAGE PLAN
SCALE: 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

D-1

LAST REVISION DATE PLOTTED => 21-MAR-2014
03-10-14 TIME PLOTTED => 11:14

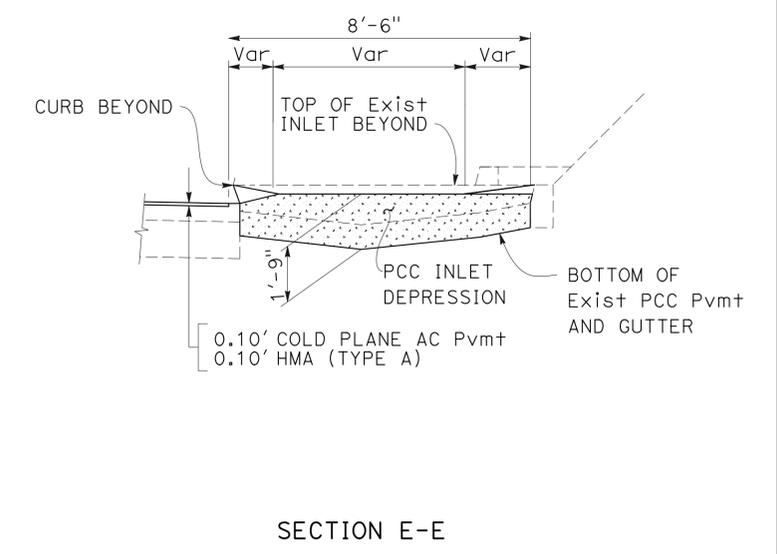
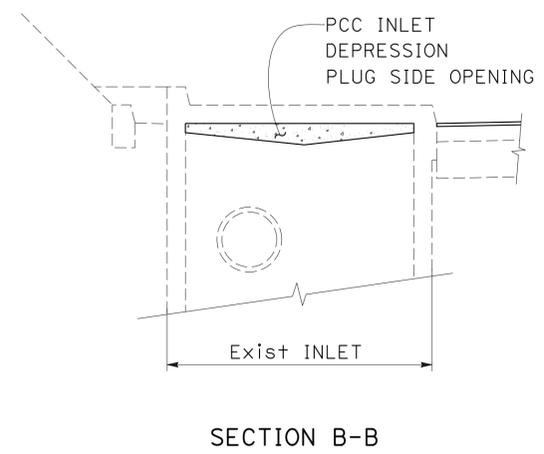
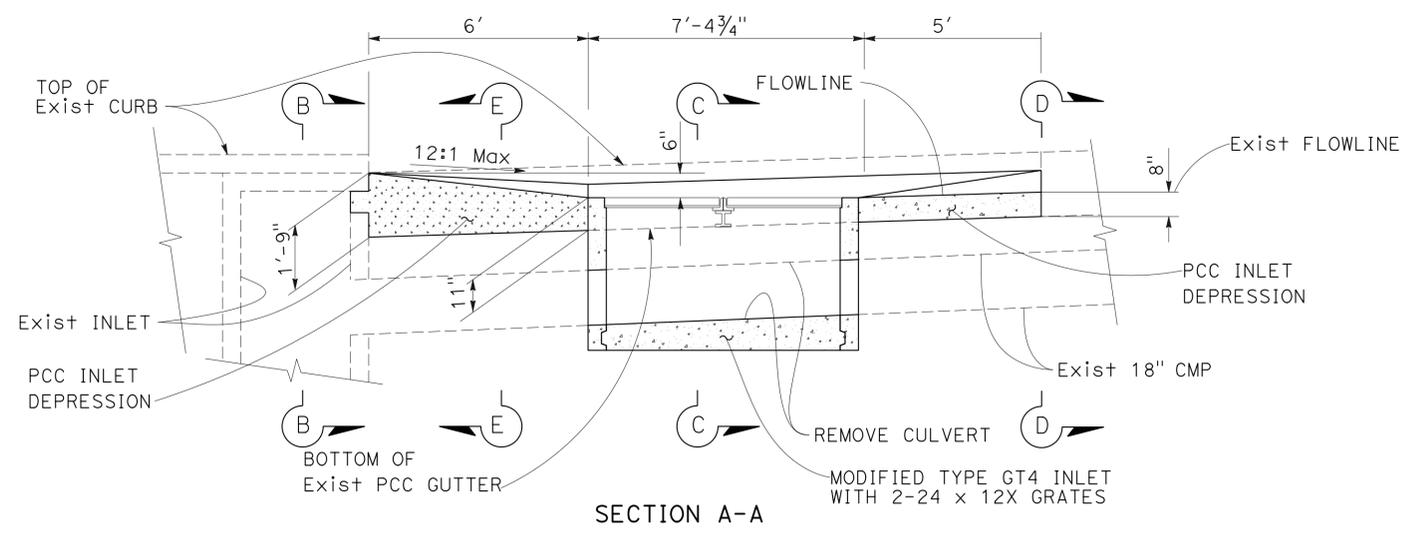
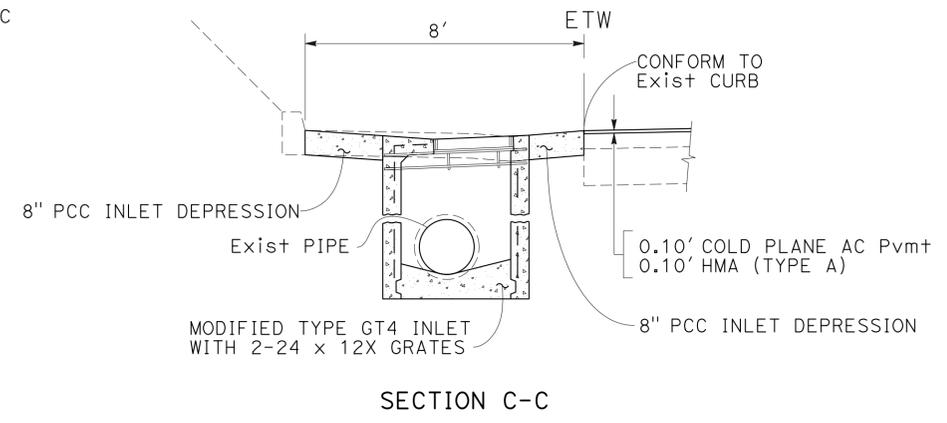
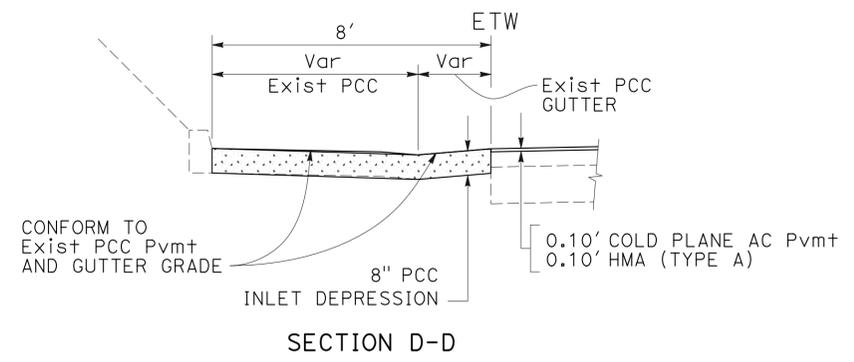
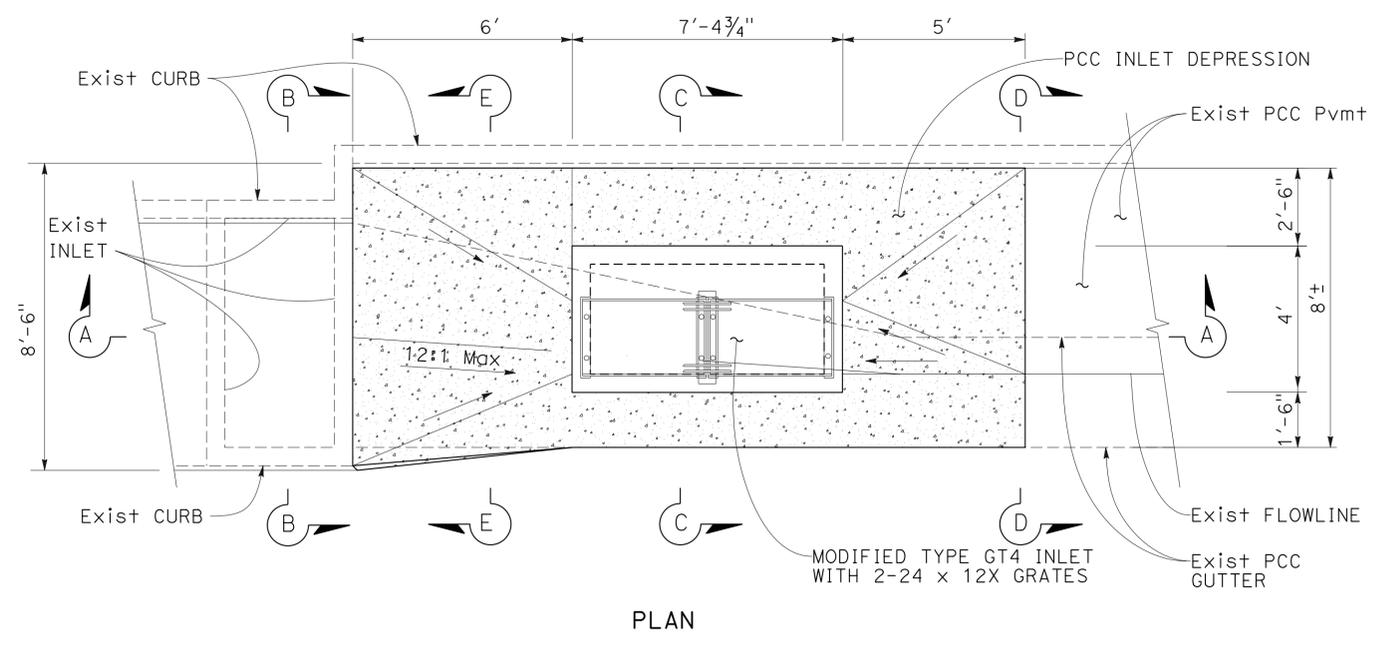
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	7	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Robert Camargo
 No. 34402
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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NOTE:
SEE STANDARD PLAN D73A AND D78B FOR DETAILS NOT SHOWN



DRAINAGE DETAILS
NO SCALE

DD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	RAMSES SARGISS	LITO BASA	3/10/14
MAINTENANCE		ROBERT CAMARGO	

USERNAME => s131681
DGN FILE => 04120004491c001.dgn



UNIT 0976

PROJECT NUMBER & PHASE

04120004491

LAST REVISION DATE PLOTTED => 21-MAR-2014
03-04-14 TIME PLOTTED => 11:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	8	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
 PLANS APPROVAL DATE

Robert Camargo
 No. 34402
 Exp. 9-30-15
 CIVIL

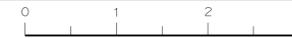
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	REMOVE CONCRETE	REMOVE CUVERT (N)	MINOR CONCRETE (Misc Const)	FRAME AND GRATE (N)	Misc IRON AND STEEL	MINOR CONCRETE MINOR STRUCTURE	HEIGHT OF INLET "H" (N)	DESCRIPTION	DRAINAGE SYSTEM No.	DRAINAGE UNIT
		CY	LF	CY	EA	LB	CY	FT				
D-1	1	a 3.5			2	478	3.4	6		REMOVE PCC Pvm+ AND GUTTER; MODIFIED GT 4 INLET	1	a
		b	6.5							REMOVE CULVERT		b
		c		3.2						PCC INLET DEPRESSION		c
SHEET TOTAL		3.5	6.5	3.2	2	478	3.4					

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

DRAINAGE QUANTITIES DQ-1



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED/DESIGNED BY
 CHECKED BY

LITO BASA
 ROBERT CAMARGO

REVISED BY
 DATE REVISED

LB
 3/10/14

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- UTILITY FACILITIES SHOWN ARE APPROXIMATE, CONTRACTOR TO VERIFY LOCATION BEFORE CONSTRUCTION.

LEGEND:

UTILITIES	EXISTING UTILITIES	OWNERSHIP
GAS	---g---	PG&E
TELEPHONE	---+---	AT&T
WATER	---w---	EBMUD
SEWER	---s---	EBMUD

ABBREVIATIONS:

AT&T	AMERICAN TELEPHONE & TELEGRAPH
PG&E	PACIFIC GAS & ELECTRIC
EBMUD	EAST BAY MUNICIPAL UTILITY DISTRICT

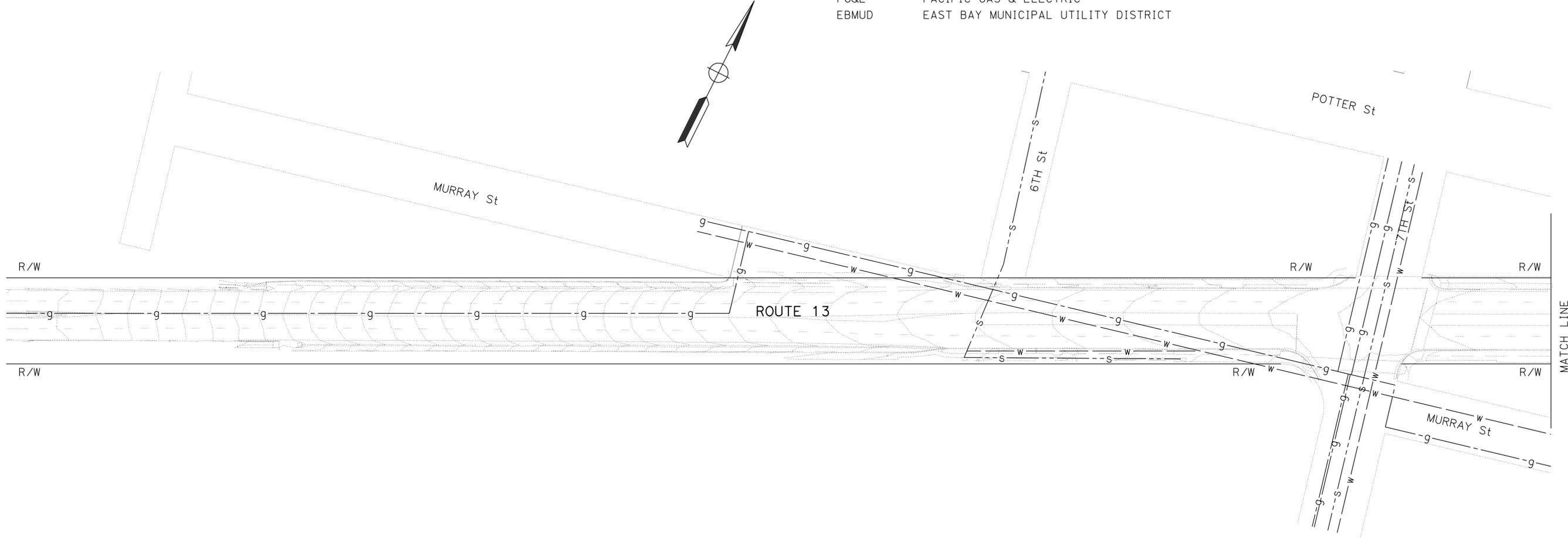
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	9	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
 PLANS APPROVAL DATE

Robert Camargo
 No. 34402
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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UTILITY PLAN
 SCALE: 1" = 50'

APPROVED FOR UTILITY INFORMATION ONLY

U-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED/DESIGNED BY
 CHECKED BY

LITO BASA
 ROBERT CAMARGO

REVISED BY
 DATE REVISED

LB
 3/10/14

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

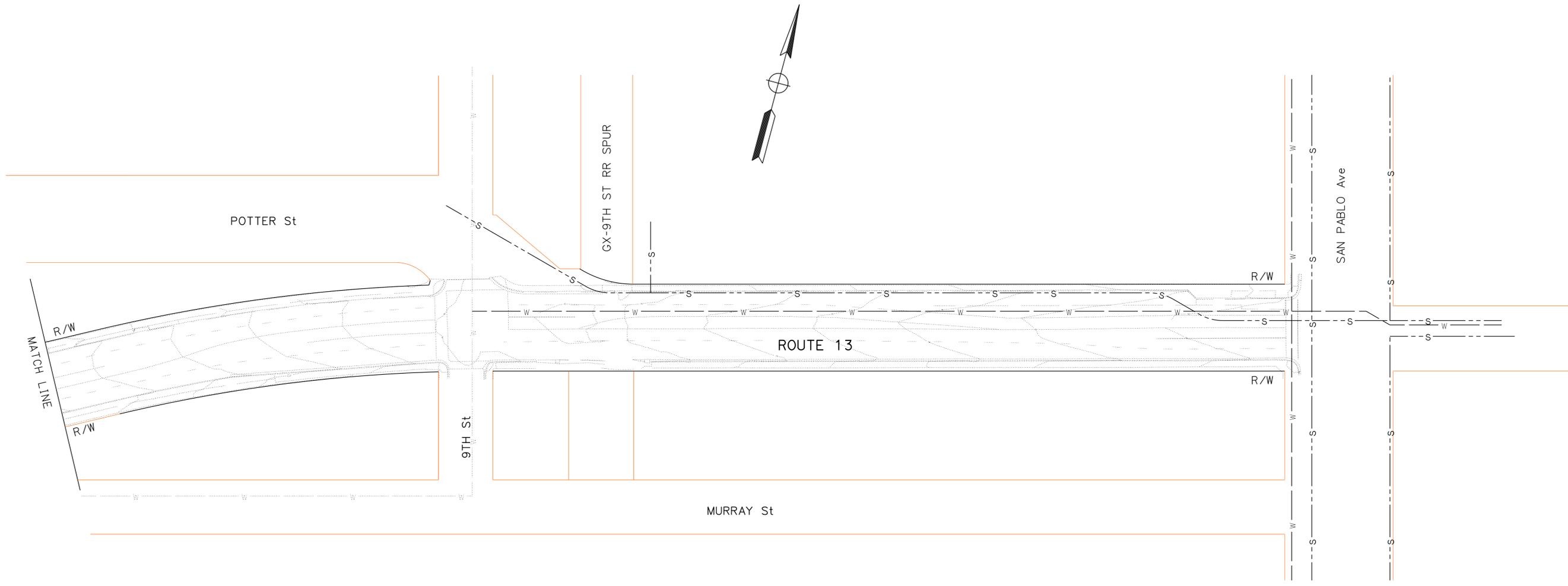
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	10	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
 PLANS APPROVAL DATE

Robert Camargo
 No. 34402
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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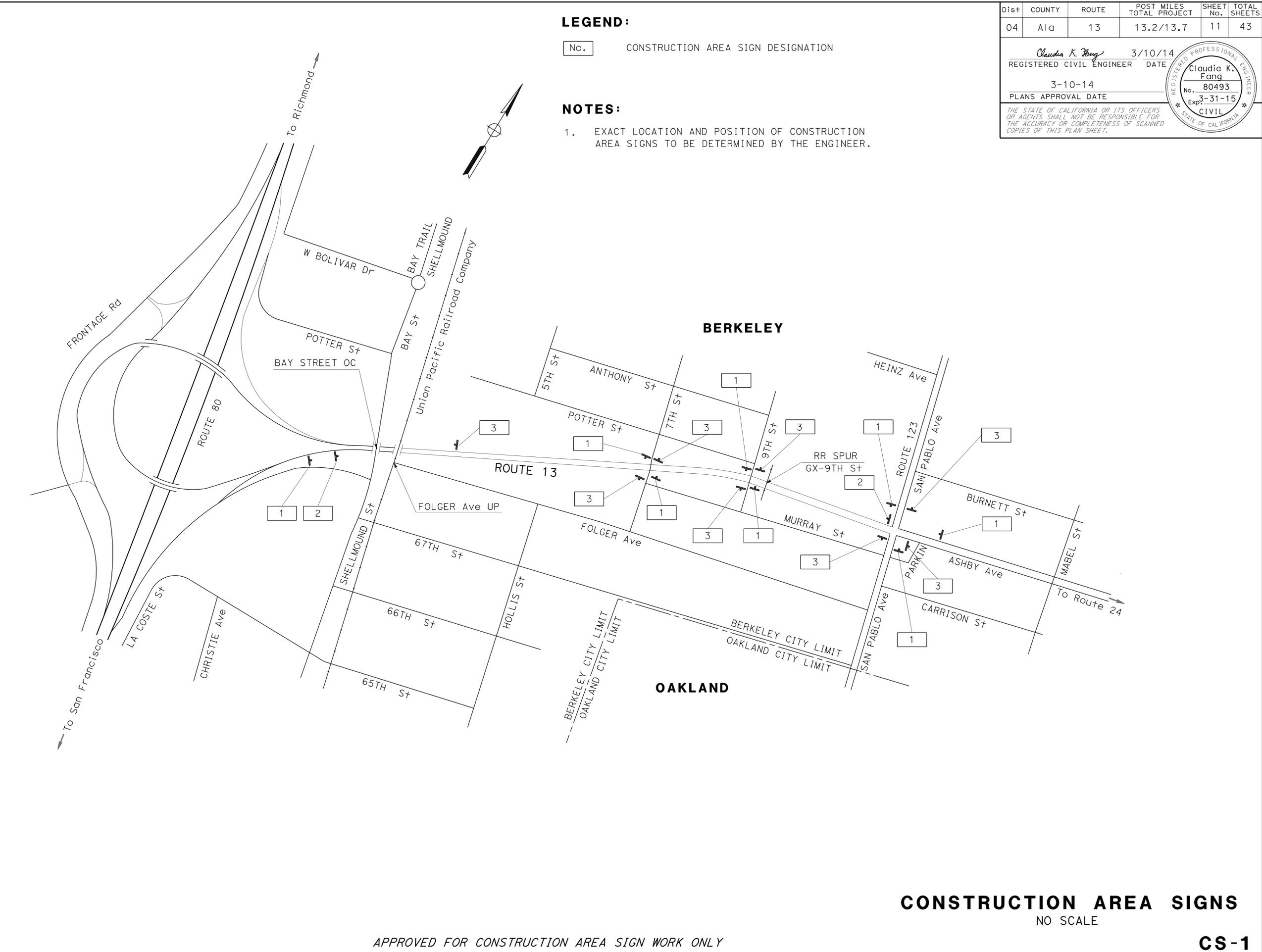
APPROVED FOR UTILITY INFORMATION ONLY

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

UTILITY PLAN
 SCALE: 1" = 50'

U-2

FUNCTIONAL SUPERVISOR	LOURDES DAVID
CALCULATED/DESIGNED BY	CHECKED BY
JERI-PAUL FABIAN	CLAUDIA FANG
REVISOR	DATE
JF	3/10/14



LEGEND:
 No. CONSTRUCTION AREA SIGN DESIGNATION

NOTES:
 1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	11	43
			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.		



CONSTRUCTION AREA SIGNS
 NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

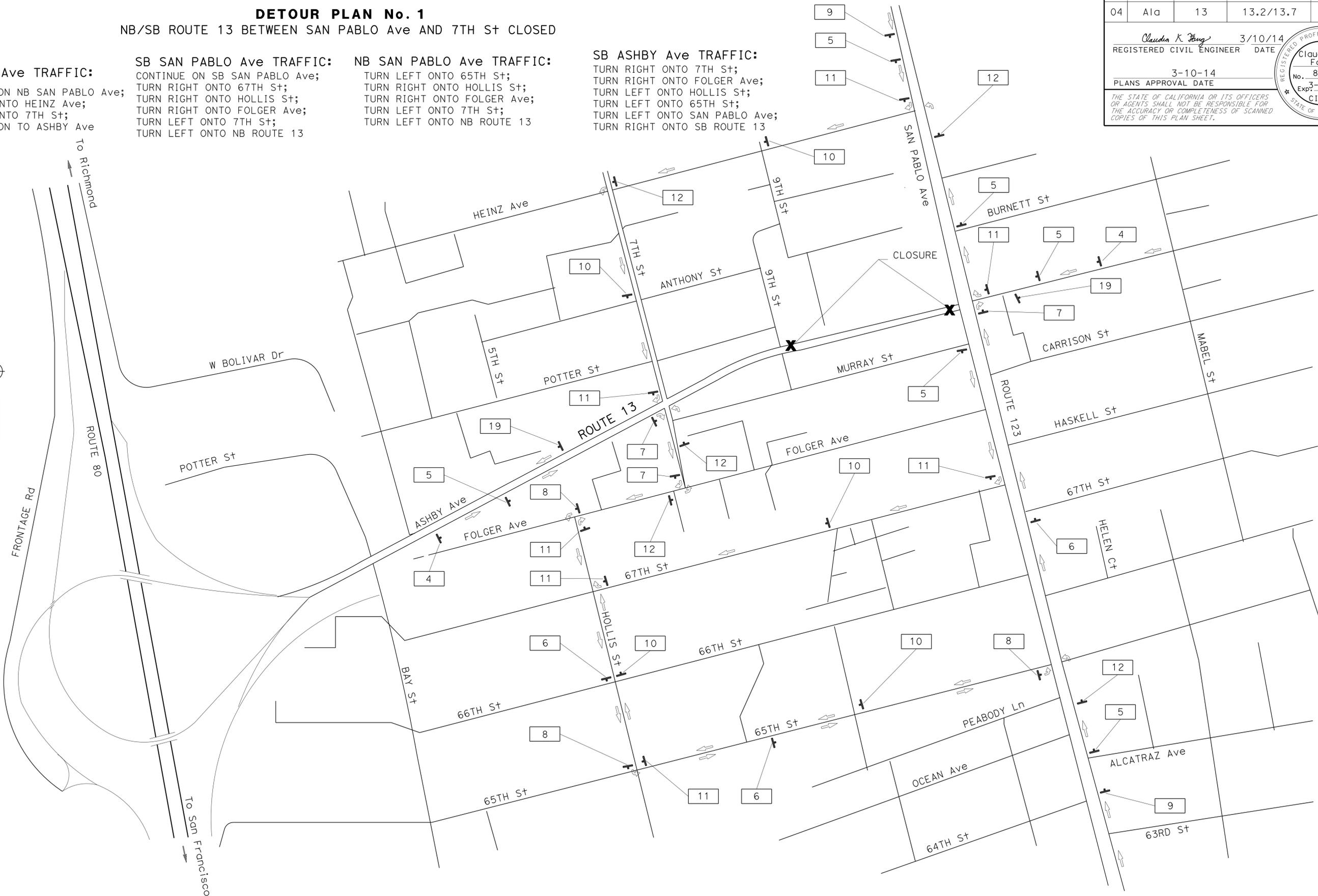
DETOUR PLAN No. 1
 NB/SB ROUTE 13 BETWEEN SAN PABLO Ave AND 7TH St CLOSED

NB ASHBY Ave TRAFFIC:
 TURN RIGHT ON NB SAN PABLO Ave;
 TURN LEFT ONTO HEINZ Ave;
 TURN LEFT ONTO 7TH St;
 TURN RIGHT ON TO ASHBY Ave

SB SAN PABLO Ave TRAFFIC:
 CONTINUE ON SB SAN PABLO Ave;
 TURN RIGHT ONTO 67TH St;
 TURN RIGHT ONTO HOLLIS St;
 TURN RIGHT ONTO FOLGER Ave;
 TURN LEFT ONTO 7TH St;
 TURN LEFT ONTO NB ROUTE 13

NB SAN PABLO Ave TRAFFIC:
 TURN LEFT ONTO 65TH St;
 TURN RIGHT ONTO HOLLIS St;
 TURN RIGHT ONTO FOLGER Ave;
 TURN LEFT ONTO 7TH St;
 TURN LEFT ONTO NB ROUTE 13

SB ASHBY Ave TRAFFIC:
 TURN RIGHT ONTO 7TH St;
 TURN RIGHT ONTO FOLGER Ave;
 TURN LEFT ONTO HOLLIS St;
 TURN LEFT ONTO 65TH St;
 TURN LEFT ONTO SAN PABLO Ave;
 TURN RIGHT ONTO SB ROUTE 13



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	12	43
			3-10-14 REGISTERED CIVIL ENGINEER DATE		
			3-10-14 PLANS APPROVAL DATE		
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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
 FUNCTIONAL SUPERVISOR: LOURDES DAVID
 CALCULATED/DESIGNED BY: JERI-PAUL FABIAN
 CHECKED BY: CLAUDIA FANG
 REVISED BY: JF
 DATE REVISED: 3/10/14
 TRAFFIC

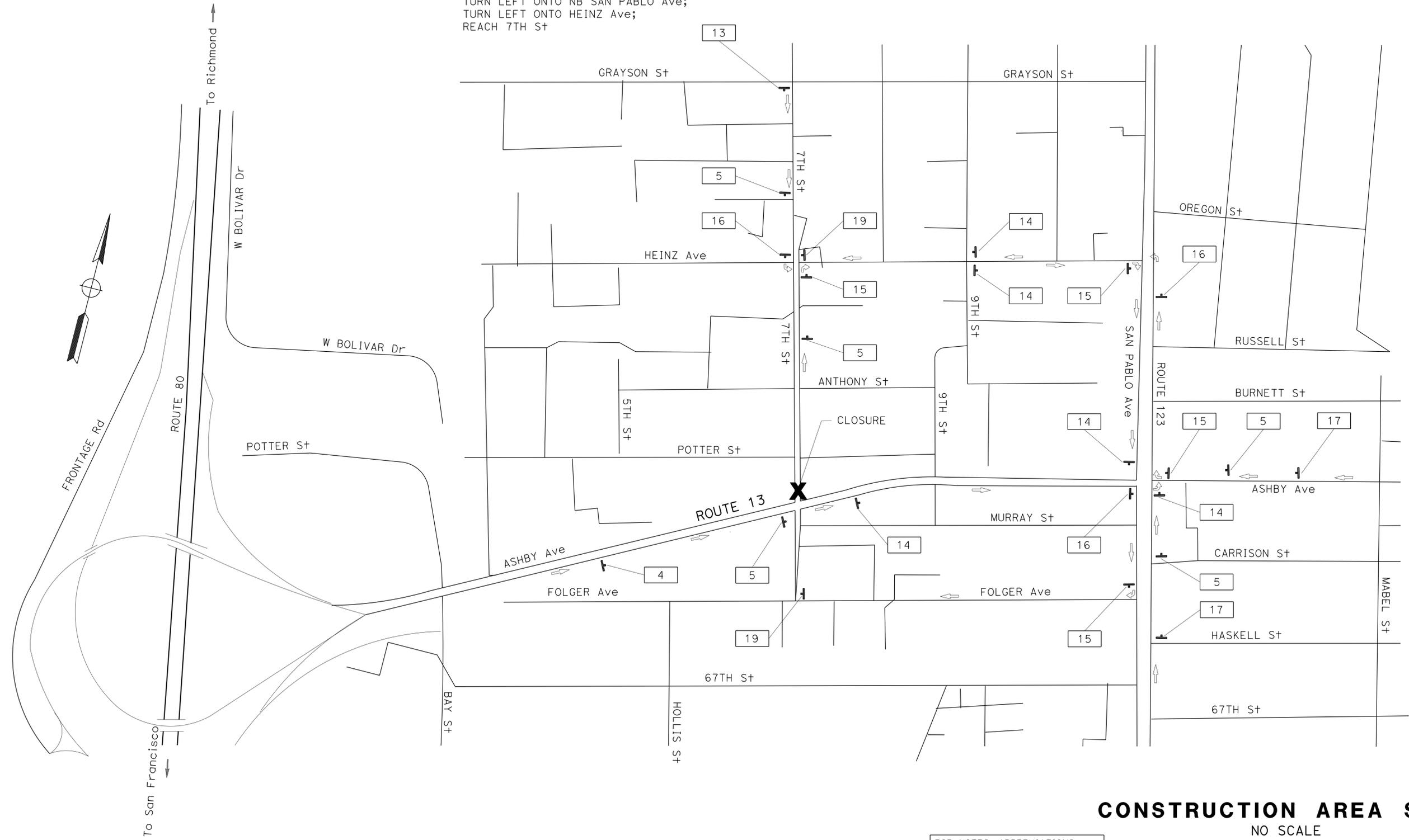
DETOUR PLAN No. 2
 SEVENTH STREET CLOSED (NORTH SIDE)

SB 7TH ST TRAFFIC:
 CONTINUE TO SB 7TH ST;
 TURN LEFT ONTO HEINZ Ave;
 OR
 CONTINUE NB 7TH ST;
 TURN RIGHT ONTO HEINZ Ave;

THEN
 TURN RIGHT ONTO SAN PABLO Ave;
 CONTINUE SB SAN PABLO Ave;
 TURN RIGHT ONTO FOLGER Ave;
 REACH 7TH ST

NB 7TH ST TRAFFIC:
 CONTINUE NB SAN PABLO Ave;
 TURN LEFT ONTO HEINZ Ave;
 REACH 7TH ST
 OR
 CONTINUE SB ROUTE 13;
 TURN LEFT ONTO NB SAN PABLO Ave;
 TURN LEFT ONTO HEINZ Ave;
 REACH 7TH ST

OR
 CONTINUE NB ASHBY Ave;
 TURN RIGHT ONTO NB SAN PABLO Ave;
 TURN LEFT ONTO HEINZ Ave;
 REACH 7TH ST



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	13	43

Claudia K. Fang 3/10/14
 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.

Claudia K. Fang
 No. 80493
 Exp. 3-31-15
 CIVIL
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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

CS-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: LOURDES DAVID
 CALCULATED/DESIGNED BY: JERI-PAUL FABIAN / CHECKED BY: CLAUDIA FANG
 REVISED BY: JF / DATE REVISED: 3/10/14
 TRAFFIC

DETOUR PLAN No. 3
 SEVENTH STREET CLOSED (SOUTH SIDE)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	14	43
			REGISTERED CIVIL ENGINEER	DATE	
			3-10-14		
			PLANS APPROVAL DATE		
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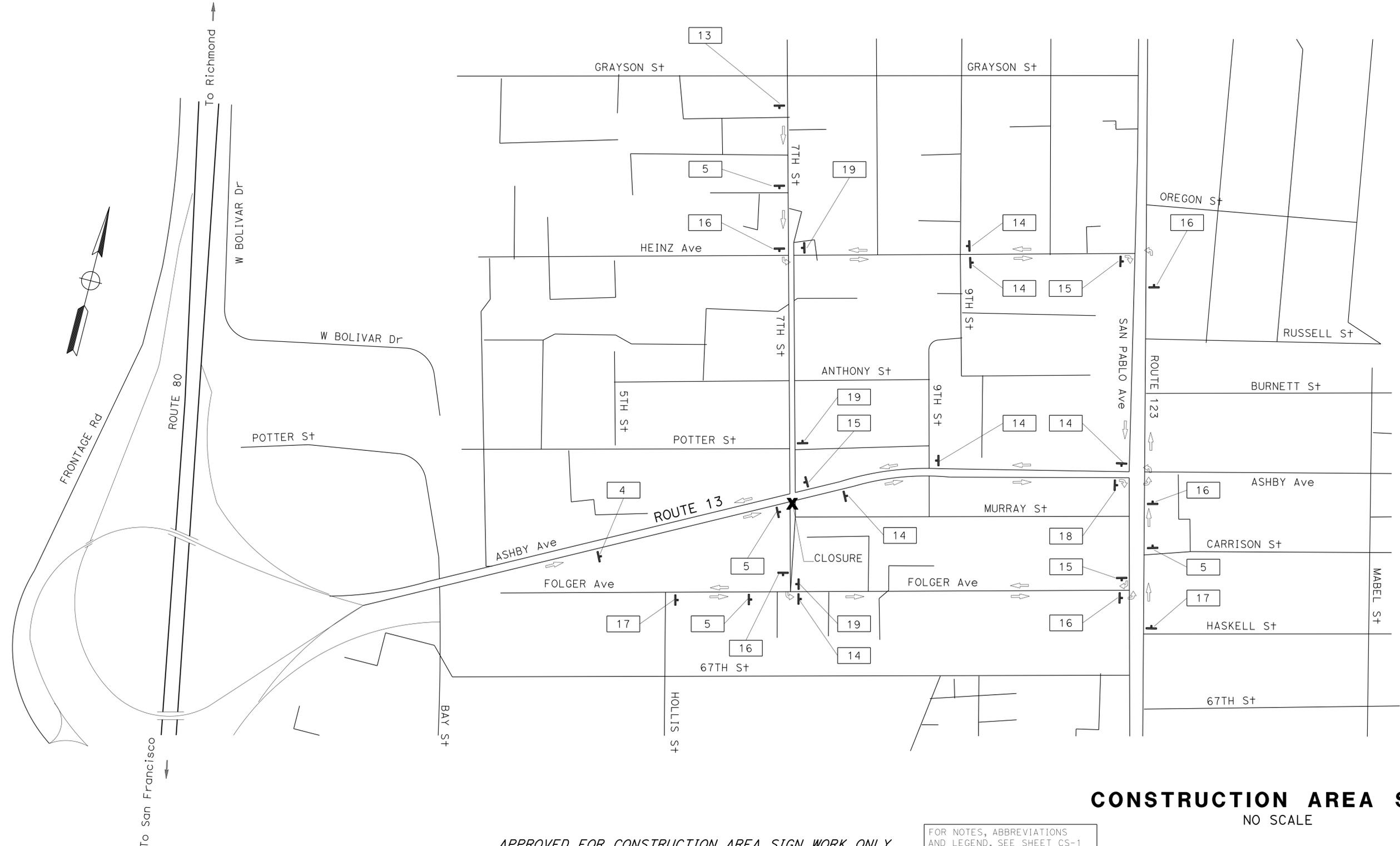
NB 7TH ST TRAFFIC:
 CONTINUE TO SB 7TH ST;
 TURN LEFT ONTO FOLGER Ave;
 TURN LEFT ONTO SAN PABLO Ave;
 TURN LEFT ONTO ASHBY Ave;
 REACH 7TH ST

OR
 CONTINUE ON SB ASHBY Ave;
 TURN LEFT ONTO NB SAN PABLO Ave;
 TURN LEFT ONTO HEINZ Ave;
 REACH 7TH ST

SB 7TH ST TRAFFIC:

CONTINUE SB ASHBY Ave;
 TURN RIGHT ONTO SB SAN PABLO Ave;
 TURN RIGHT ONTO FOLGER Ave;
 REACH 7TH ST

OR
 CONTINUE SB 7TH ST;
 TURN LEFT ONTO HEINZ Ave;
 TURN RIGHT ONTO SAN PABLO Ave;
 TURN RIGHT ONTO FOLGER Ave;
 REACH 7TH ST



CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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

CS-4

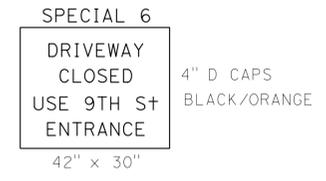
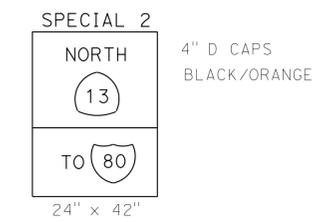
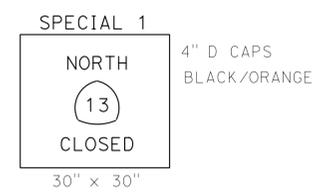
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	15	43

Claudia K. Fang 3/10/14
 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS	REMARKS
	FEDERAL	CALIFORNIA					
1	W20-1		36" x 36"	ROAD WORK AHEAD	(ONE) 4" x 6"	8	
2		C40A (CA)	36" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	(ONE) 4" x 6"	2	
3	G20-2		36" x 18"	END ROAD WORK	(ONE) 4" x 4"	8	
4		C19 (CA)	36" x 36"	ROAD CLOSED AHEAD	(ONE) 4" x 6"	4	
5	W20-2		36" x 36"	DETOUR AHEAD	(ONE) 4" x 6"	15	
6	M3-3	SC3 (↕)(CA)	36" x 12"	DETOUR (STRAIGHT AHEAD ARROW)	(ONE) 4" x 6"	3	
				SOUTH			
7	M3-3	G28-2(13)(CA)	24" x 25"	ROUTE SHIELD 13	(ONE) 4" x 6"	3	
		SC3 (→)(CA)	36" x 12"	DETOUR (RIGHT ARROW)			
				SOUTH			
8	M3-3	G28-2(13)(CA)	24" x 25"	ROUTE SHIELD 13	(ONE) 4" x 6"	3	
		SC3 (←)(CA)	36" x 12"	DETOUR (LEFT ARROW)			
9			24" x 12"	SOUTH	(ONE) 4" x 6"	3	
		G28-2(13)(CA)	24" x 25"	ROUTE SHIELD 13			
10		SPECIAL 1	30" x 30"	NORTH 13 CLOSED	(ONE) 4" x 4"	2	
11		SC3 (↕)(CA)	36" x 12"	DETOUR (STRAIGHT AHEAD ARROW)	(ONE) 4" x 6"	5	
				NORTH 13 / TO 80			
12		SC3 (→)(CA)	36" x 12"	DETOUR (RIGHT ARROW)	(ONE) 4" x 6"	7	
				NORTH 13 / TO 80			
13		SC3 (←)(CA)	36" x 12"	DETOUR (LEFT ARROW)	(ONE) 4" x 6"	5	
				NORTH 13 / TO 80			
14		SPECIAL 3	36" x 24"	SEVENTH S+ CLOSED AHEAD	(ONE) 4" x 4"	2	
		SC3 (↕)(CA)	36" x 12"	DETOUR (STRAIGHT AHEAD ARROW)			
15			36" x 12"	SEVENTH S+	(ONE) 4" x 4"	11	
		SC3 (→)(CA)	36" x 12"	DETOUR (RIGHT ARROW)			
16			36" x 12"	SEVENTH S+	(ONE) 4" x 4"	7	
		SC3 (←)(CA)	36" x 12"	DETOUR (LEFT ARROW)			
17			36" x 12"	SEVENTH S+	(ONE) 4" x 4"	8	
		SPECIAL 4	36" x 12"	SEVENTH S+			
18	M4-8		36" x 18"	SEVENTH S+ CLOSED	(ONE) 4" x 4"	4	
		SPECIAL 5	36" x 18"	SEVENTH S+ CLOSED			
19	M6-4		24" x 12"	DETOUR	(ONE) 4" x 6"	1	
		SPECIAL 4	36" x 12"	SEVENTH S+			
20	M4-8a		21" x 15"	LEFT - RIGHT ARROW	(ONE) 4" x 4"	7	
				END DETOUR			
A	R3-2		24" x 18"	NO LEFT TURN	(ONE) 4" x 4"	3	SEE SC SHEETS
				DRIVEWAY CLOSED USE 9TH S+ ENTRANCE			



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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

CONSTRUCTION AREA SIGNS CS-5

LAST REVISION: DATE PLOTTED => 21-MAR-2014
 03-05-14 TIME PLOTTED => 11:14

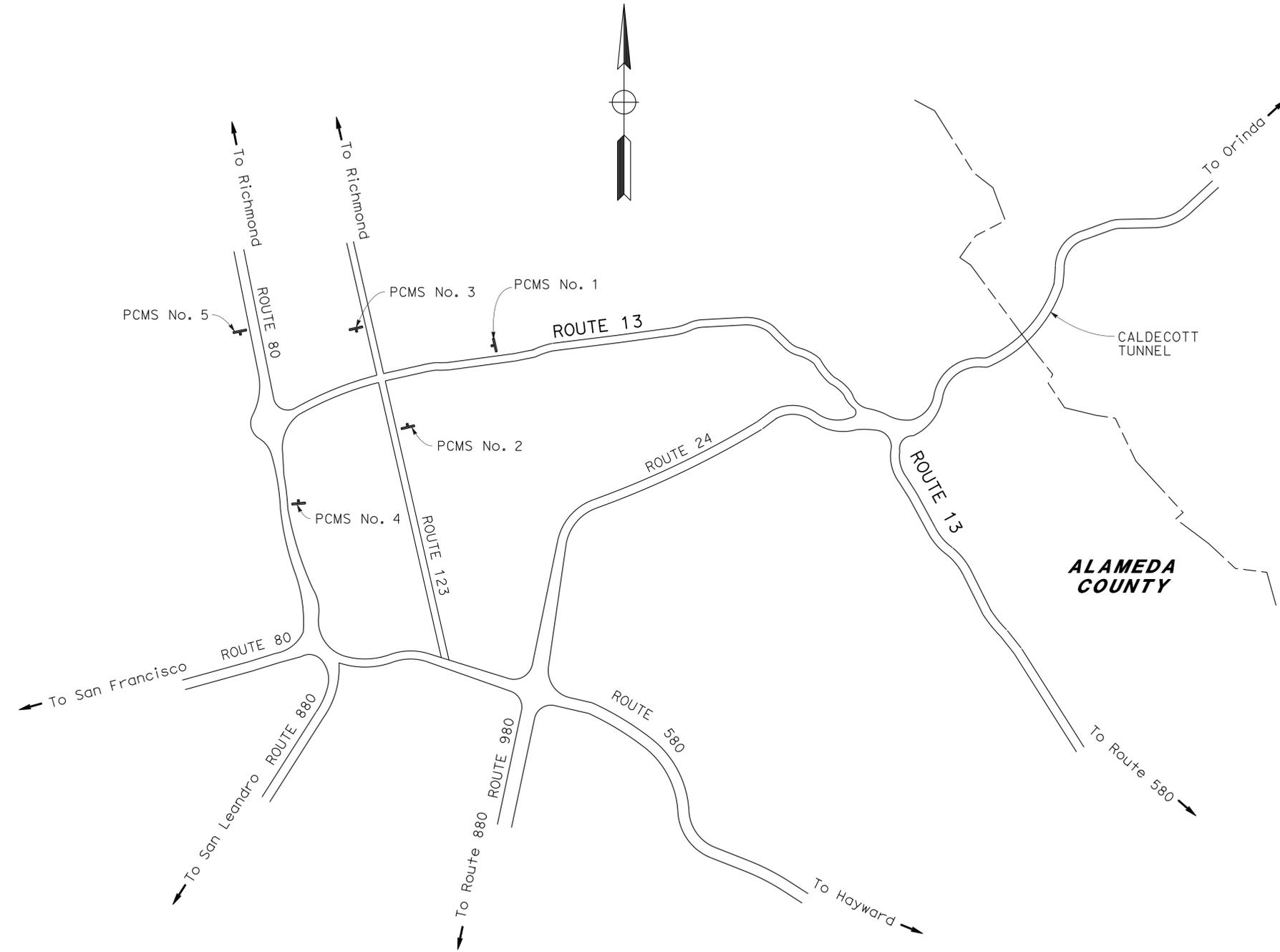
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans MAINTENANCE	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	LITO BASA	REVISOR	LB
	RAMSES SARGISS	CHECKED BY	ROBERT CAMARGO	DATE	3/10/14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	16	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Robert Camargo
 No. 34402
 Exp. 9-30-15
 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.



**MOTORIST INFORMATION PLAN
(PORTABLE CHANGEABLE
MESSAGE SIGN LOCATIONS)**
NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MI-1

LAST REVISION | DATE PLOTTED => 21-MAR-2014
 12-04-13 | TIME PLOTTED => 11:14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED/DESIGNED BY
 CHECKED BY

LITO BASA
 ROBERT CAMARGO

REVISOR BY
 DATE REVISED

LB
 3/10/14

NOTE:

ACTUAL LOCATION OF PCMS TO BE DETERMINED BY THE ENGINEER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	17	43

Robert Camargo 3/10/14
 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.

PCMS	LOCATION	MESSAGES	
		PRIOR TO CONSTRUCTION	DURING CONSTRUCTION
1	NB Ala 13 NORTH OF SACRAMENTO ST	PHASE 1 RDWK ASHBY AV PHASE 2 (DATE) TO (DATE)	PHASE 1 RDWK ASHBY AV 11PM - 6AM PHASE 2 EXPECT DELAYS
2	EB Ala 123 1000 FEET SOUTH OF ASHBY Ave	PHASE 1 RDWK ASHBY AV PHASE 2 (DATE) TO (DATE)	PHASE 1 RDWK ASHBY AV 11PM - 6AM PHASE 2 EXPECT DELAYS
3	WB Ala 123 1000 FEET NORTH OF ASHBY Ave	PHASE 1 RDWK ASHBY AV PHASE 2 (DATE) TO (DATE)	PHASE 1 RDWK ASHBY AV 11PM - 6AM PHASE 2 EXPECT DELAYS
4	EB Ala 80 EAST OF POWELL St ON-RAMP	PHASE 1 RDWK ASHBY AV PHASE 2 (DATE) TO (DATE)	PHASE 1 RDWK ASHBY AV 11PM - 6AM PHASE 2 EXPECT DELAYS
5	WB Ala 80 WEST OF UNIVERSITY Ave ON-RAMP	PHASE 1 RDWK ASHBY AV PHASE 2 (DATE) TO (DATE)	PHASE 1 RDWK ASHBY AV 11PM - 6AM PHASE 2 EXPECT DELAYS

MOTORIST INFORMATION QUANTITIES

MIQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: LITO BASA
 CHECKED BY: ROBERT CAMARGO
 REVISED BY: LB
 DATE REVISED: 3/10/14

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 - EXISTING DRIVEWAY MUST BE ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION
 - FOR CONSTRUCTION AREA SIGN DETAIL, SEE SHEET CS-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	18	43

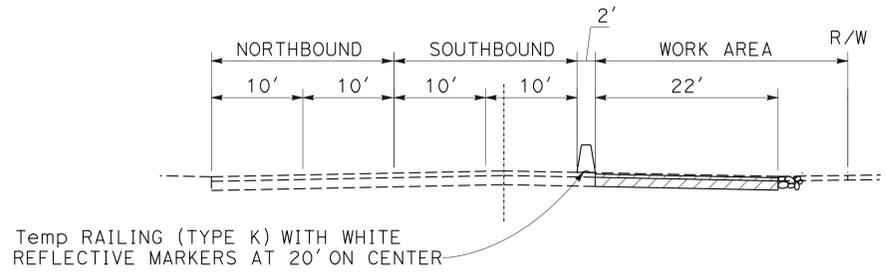
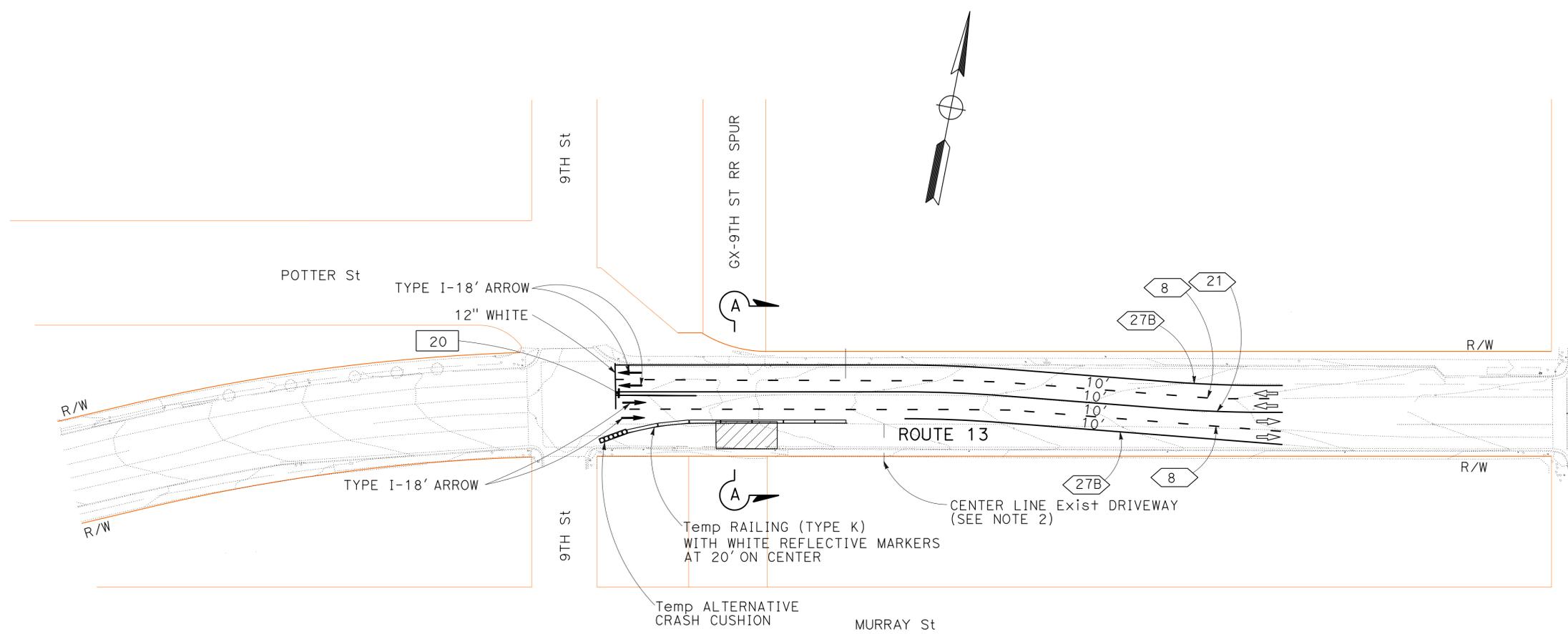
Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
 PLANS APPROVAL DATE

Robert Camargo
 No. 34402
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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- LEGEND:**
- CONSTRUCT THIS STAGE
 - CHANNELIZER
 - CONSTRUCTION AREA SIGN DESIGNATION



SECTION A-A
 ROUTE 13
 9TH ST RR SPUR

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1
 SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 LITO BASA: ROBERT CAMARGO
 REVISED BY: [blank]
 DATE REVISED: [blank]
 LB: 3/10/14

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

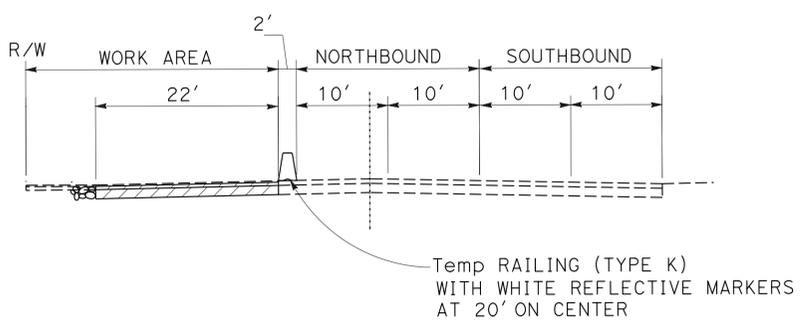
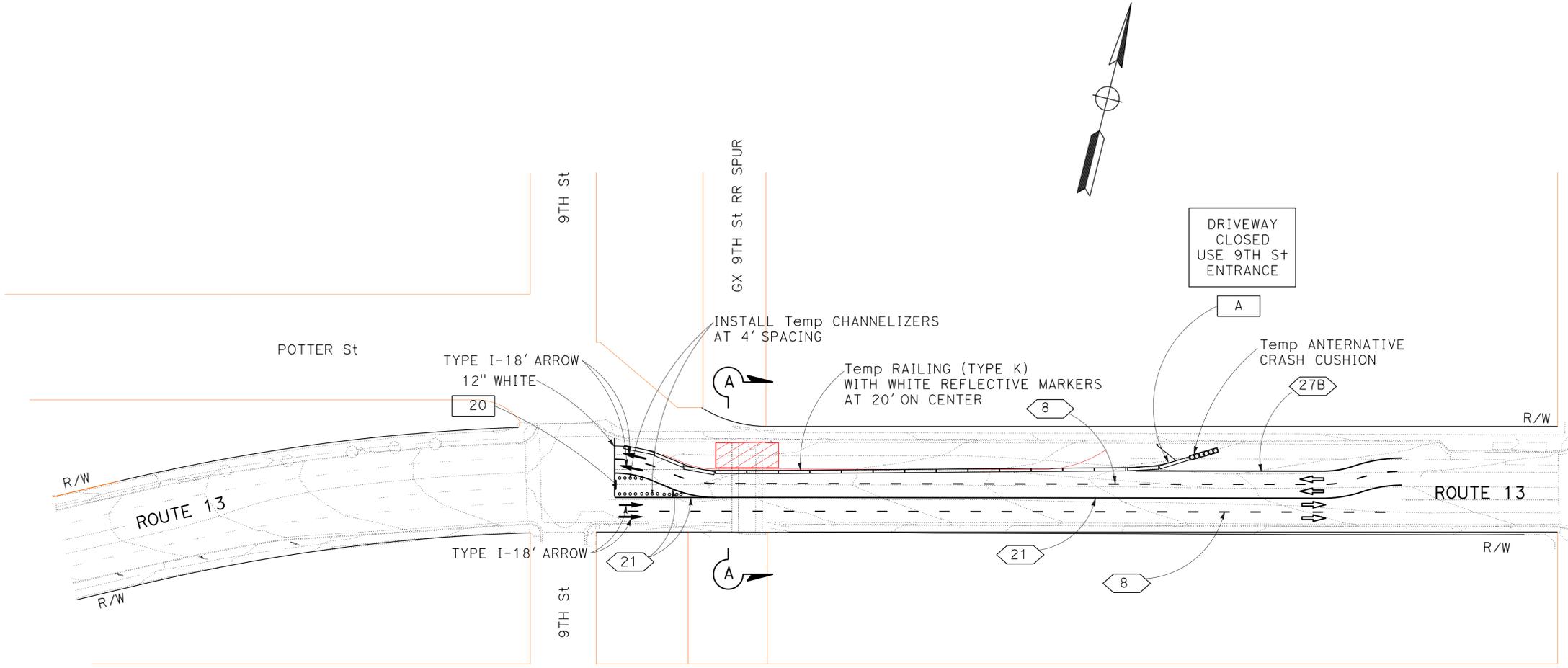
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	19	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
 PLANS APPROVAL DATE

Robert Camargo
 No. 34402
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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SECTION A-A
 ROUTE 13
 9TH St RR SPUR

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 2
 SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

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

SC-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	20	43

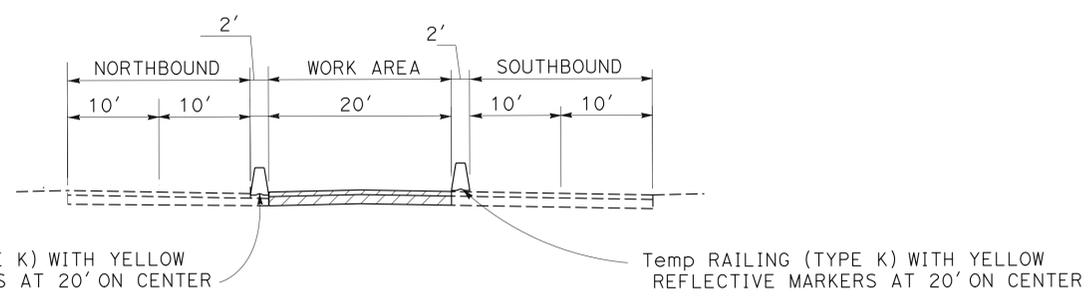
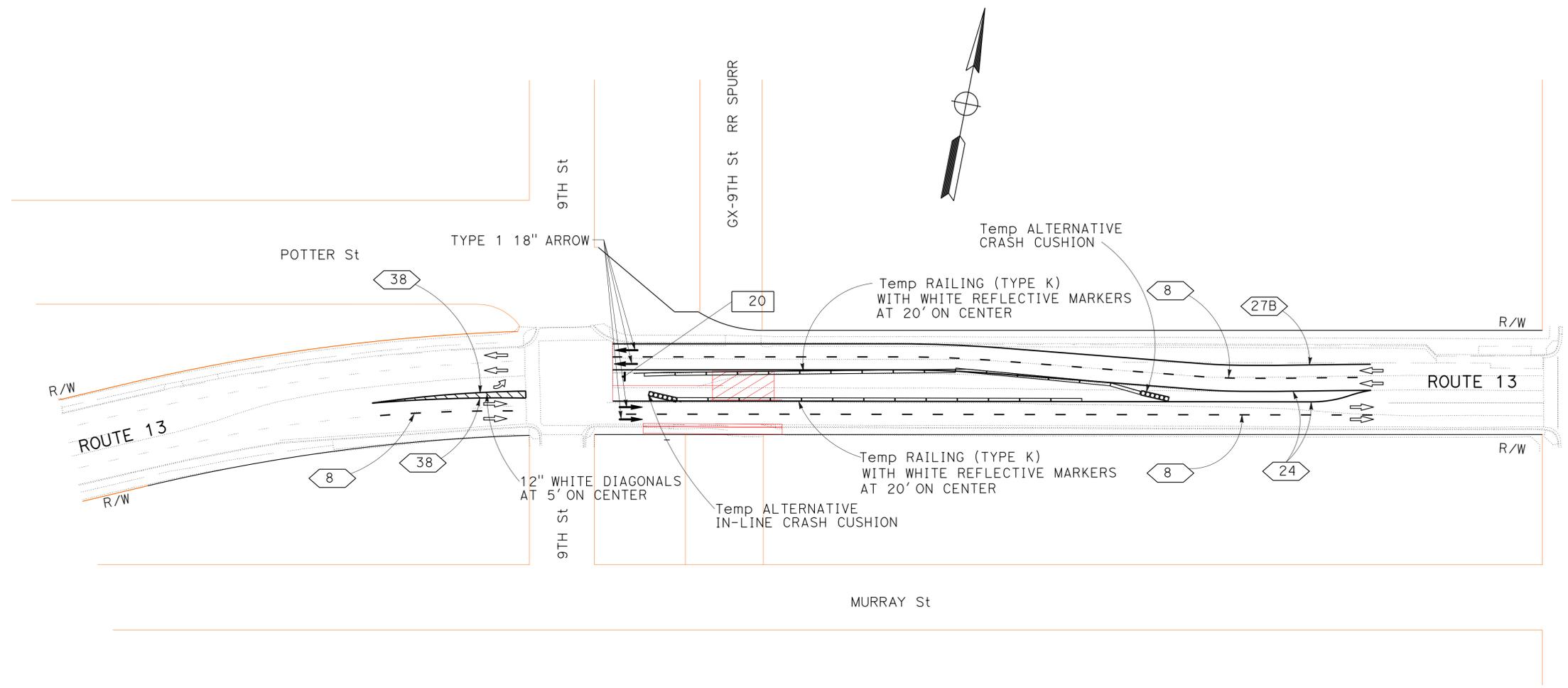
REGISTERED CIVIL ENGINEER	DATE
Robert Camargo	3/10/14
PLANS APPROVAL DATE	
	3-10-14

REGISTERED PROFESSIONAL ENGINEER
Robert Camargo
No. 34402
Exp. 9-30-15
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
MAINTENANCE
FUNCTIONAL SUPERVISOR
RAMSES SARGISS
CALCULATED/DESIGNED BY
CHECKED BY
LITO BASA
ROBERT CAMARGO
REVISOR
DATE
3/10/14
LB



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 3
 SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

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

SC-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	21	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

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TEMPORARY ALTERNATIVE CRASH CUSHION

SHEET No.	LOCATION	EA
SC-1	SOUTHBOUND	1
SC-2	NORTHBOUND	1
SC-3	SOUTHBOUND	1
	NORTHBOUND	1
TOTAL		4

TEMPORARY RAILING (TYPE K)

SHEET No.	LOCATION	LF
SC-1	SOUTHBOUND	200
SC-2	NORTHBOUND	340
SC-3	SOUTHBOUND	300
	NORTHBOUND	360
TOTAL		1200

CHANNELIZERS (SUFACE MOUNTED)

SHEET No.	LOCATION	EA
SC-2	SOUTHBOUND	20
	NORTHBOUND	19
TOTAL		39

TEMPORARY TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION	DETAIL No. OR PAVEMENT MARKING	PAINT TRAFFIC STRIPE				PAINT PAVEMENT MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPE		REMOVED PAINTED TRAFFIC STRIPE	REMOVED PAINTED PAVEMENT MARKING	REMOVE PAVEMENT MARKER
		4" WHITE SOLID	4" YELLOW SOLID	4" WHITE BROKEN (36-17)	8" WHITE SOLID	WHITE	YELLOW (HAZARDOUS WASTE)	WHITE			
		LF				SQFT	LF				
STAGE 1	8			1000							
	9						960			21	
	21		1040								
	24										
	27B	840									
	29						1000				
	38							75		5	
	TYPE 1 18' ARROW					200					
12" LIMIT LINE					22						
STAGE 2	8			1200				1000			
	21		1200					1040			
	24										
	27B	610						840			
	38										
	TYPE 1 18' ARROW					200			200		
	12" LIMIT LINE					45			22		
STAGE 3	8			1430				1200			
	21							1200			
	24		1410								
	27B	585						610			
	38				240						
	TYPE 1 18' ARROW					200			200		
	12" LIMIT LINE					45			45		
	12" DIAGONAL					15					
TOTAL		2035	3650	3630	240	727	1000	1035	5890	467	26

STAGE CONSTRUCTION QUANTITIES

SCQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 Et Caltrans
 FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 LITO BASA
 ROBERT CAMARGO
 REVISIONS: LB 3/10/14
 REVISIONS: REVISED BY DATE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: RAMSES SARGISS

CALCULATED/DESIGNED BY: LITO BASA
 CHECKED BY: ROBERT CAMARGO

REVISOR: LB
 DATE: 3/10/14

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 - FOR TYPICAL CROSSWALK MARKING AT CURB RAMP, SEE STANDARD PLAN A88A.
 - EXISTING PAVEMENT DELINEATION TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.

LEGEND:

→ CHANGE OF PAVEMENT DELINEATION DETAIL

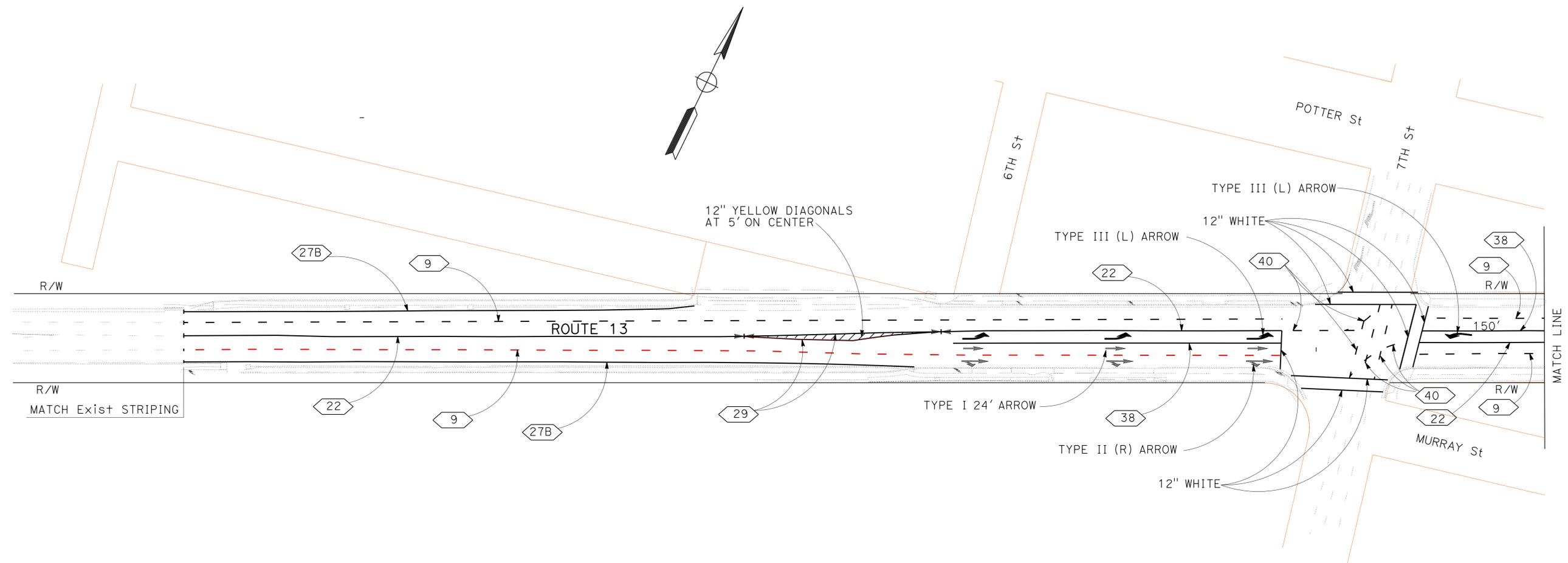
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	22	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
 PLANS APPROVAL DATE

Robert Camargo
 No. 34402
 Exp. 9-30-15
 CIVIL

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PAVEMENT DELINEATION PLAN
 SCALE: 1" = 50'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PD-1

LAST REVISION DATE PLOTTED => 21-MAR-2014
 03-05-14 TIME PLOTTED => 11:14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: RAMSES SARGISS
 CALCULATED/DESIGNED BY: LITO BASA
 CHECKED BY: ROBERT CAMARGO
 REVISED BY: LB
 DATE REVISED: 3/10/14

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

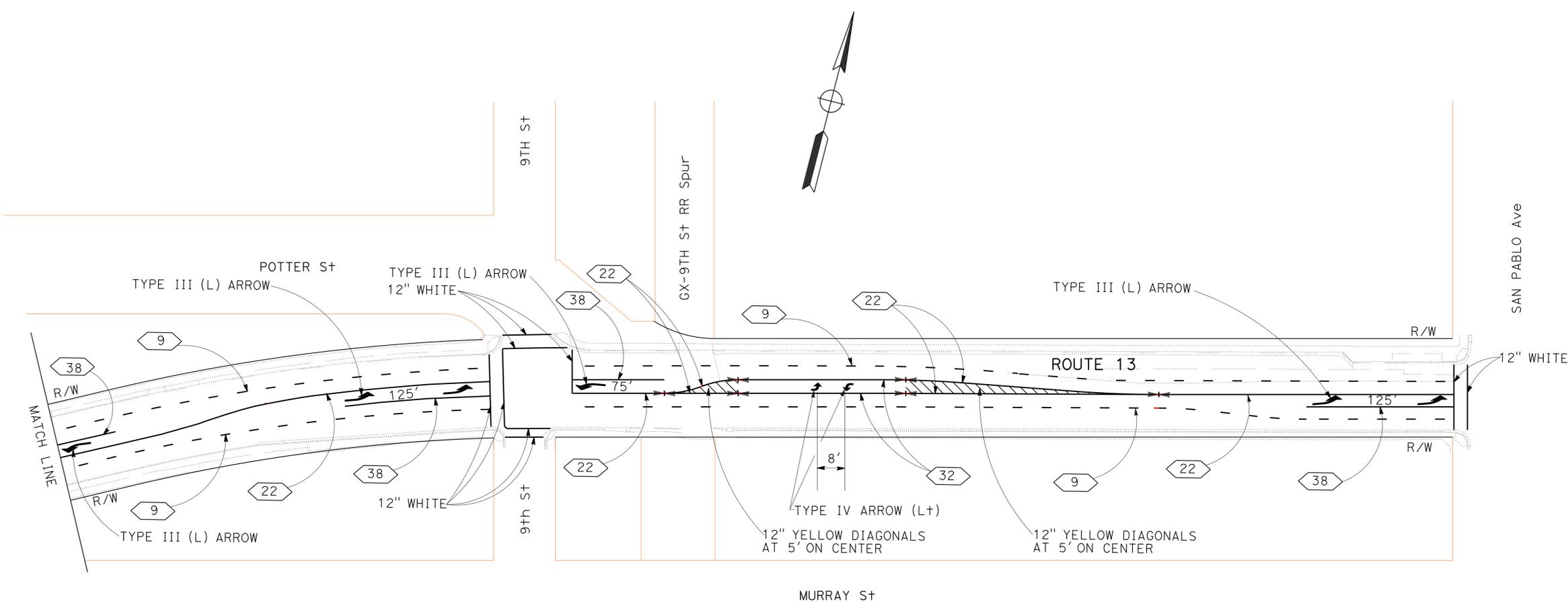
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	23	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
 PLANS APPROVAL DATE

Robert Camargo
 No. 34402
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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PAVEMENT DELINEATION PLAN
 SCALE: 1" = 50'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

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

PD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED/DESIGNED BY
 CHECKED BY

LITO BASA
 ROBERT CAMARGO

REVISED BY
 DATE REVISED

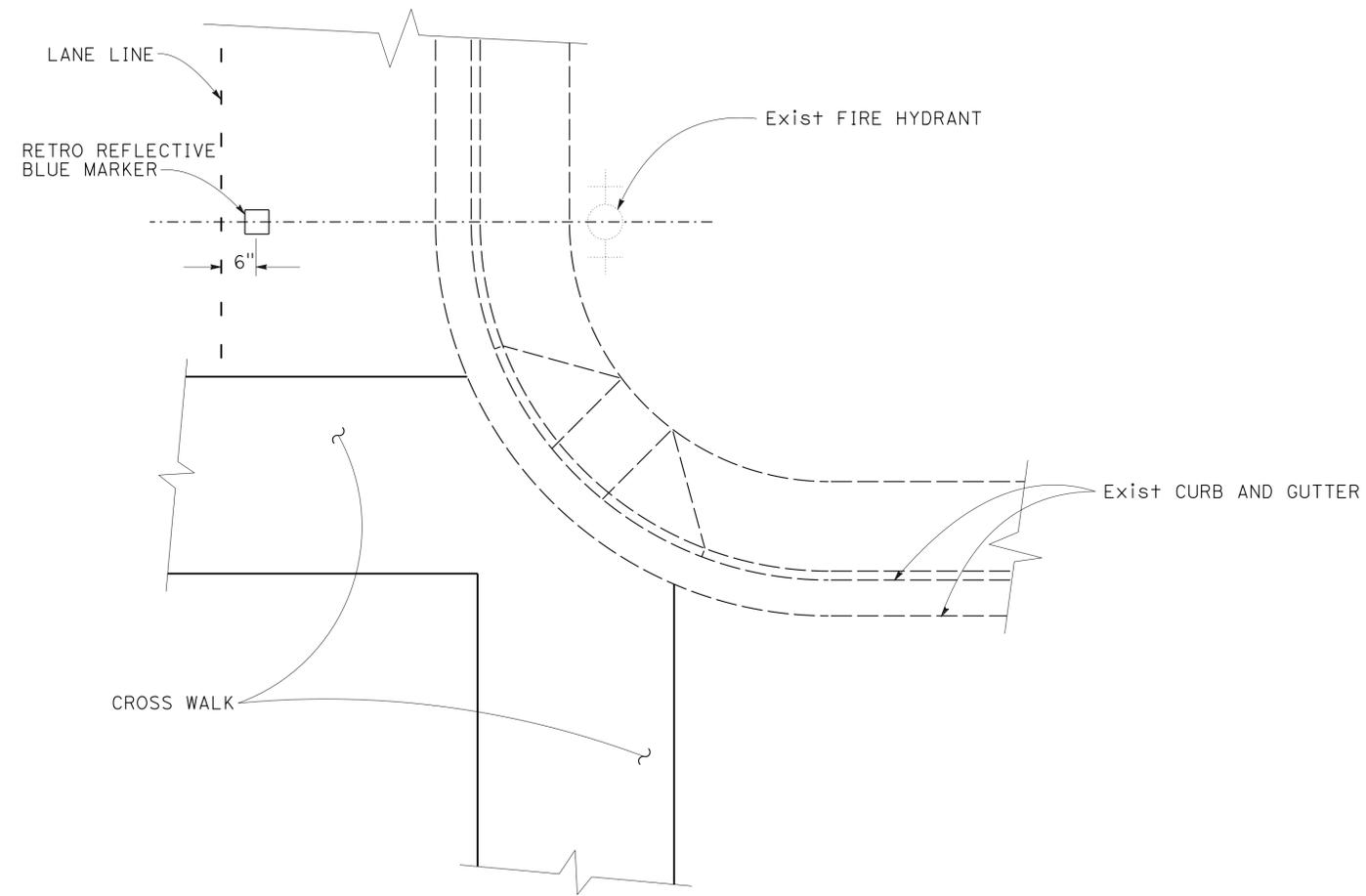
LB
 3/10/14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	24	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Robert Camargo
 No. 34402
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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DETAIL
TYPICAL FIRE HYDRANT MARKER LOCATION

PAVEMENT DELINEATION DETAILS
 NO SCALE

PDD-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	25	43

Robert Camargo 3/10/14
 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.

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION	DETAIL No. OR Pvmt MARKING	THERMOPLASTIC TRAFFIC STRIPE					THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER (RETROREFLECTIVE)			REMOVE PAVEMENT MARKERS	
		4"WHITE SOLID	4"YELLOW SOLID	4"WHITE BROKEN (6-1)	4"WHITE BROKEN (17-7)	8"WHITE SOLID	WHITE	TYPE D	TYPE G	BLUE	EA	
		LF					SQFT	EA			EA	
PM 13.681 TO 7TH ST	9				2000					43	2	45
	22		760					66				66
	27B	1150										
	29		480					21				21
	38					300			14			14
	40			170								
	TYPE I 24' ARROW						93					
	TYPE II ARROW (R)						135					
	TYPE III ARROW (L)						126					
	12" LIMIT LINE						40					
12" CROSSWALK						80						
7TH ST TO 9TH ST	9				1000				22	2		24
	22		60					8				8
	38					275			12			12
	40			210								
	TYPE III ARROW (L)						168					
	12" LIMIT LINE						240					
9TH ST TO SAN PABLO Ave	9				1460				32			32
	22		300					28		2		30
	32		240					11				11
	38				200				11			11
	TYPE III ARROW (L)						126					
	TYPE IV ARROW (L)						30					
	12" LIMIT LINE						110					
12" CROSSWALK						110						
TOTAL		1150	1840	380	4460	775	1148	134	134	6		274

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 LITO BASA
 ROBERT CAMARGO
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

**PAVEMENT DELINEATION
QUANTITIES**

PDQ-1

LAST REVISION DATE PLOTTED => 21-MAR-2014
 03-05-14 TIME PLOTTED => 11:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	26	43

Robert Camargo 3/10/14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR
 RAMSES SARGISS
 CALCULATED/DESIGNED BY
 CHECKED BY
 LITO BASA
 ROBERT CAMARGO
 REVISED BY
 DATE REVISED
 LB
 3/10/14

ROADWAY QUANTITY SUMMARY

LOCATION	REMOVE BASE AND SURFACING	CLASS 2 AGGREGATE BASE	COLD PLANE AC PAVEMENT (0.10' Max)	HMA (TYPE A)	TACK COAT	LIQUID ASPHALT SC-70 (PRIME COAT)
	CY		SQYD		TON	
PM 13.681 TO GX-9TH St RR SPUR			11,220	750	4.7	
GX-9TH St RR SPUR	180	134		130	0.3	1
GX-9TH St TO SAN PABLO Ave				270	0.9	
TOTAL	180	134	11,220	1,150	5.9	1

REPLACE ASPHALT CONCRETE SURFACING

LOCATION	WIDTH	LENGTH	CY
	FT(N)		
PM 13.681 TO 7TH St	36.0	15.0	10.0
	10.0	50.0	9.3
	10.0	100.0	18.5
	10.0	200.0	37.0
	10.0	100.0	18.5
	32.0	50.0	29.6
7TH St TO 9TH St	10.0	50.0	9.3
9TH St TO SAN PABLO Ave	60.0	587.0	521.8
TOTAL			654.0

TREATED WOOD WASTE

LOCATION	REMOVE RAILROAD RAILS	TREATED WOOD WASTE	
	LF	RAILROAD TIES	
		EA (N)	LB
NORTHBOUND	60.0	38	8,377
SOUTHBOUND	90.0	57	12,566
TOTAL	150.0	95	20,943

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

SUMMARY OF QUANTITIES

Q-1



GENERAL NOTES:

- WHERE ONE OR MORE TRAFFIC SIGNAL DETECTOR(S) CONSIST OF A SEQUENCE OF 4 LOOPS IN A SINGLE LANE, THE FRONT LOOP CLOSEST TO THE LIMIT LINE OR CROSSWALK MUST BE LOCATED 1 FOOT FROM THE LINE. THE SET OF 3 LOOPS OR 4 LOOPS ASSIGNED TO THE SAME LOOP DETECTOR LEAD-IN CABLE (DLC) MUST BE CONNECTED IN SERIES FOR TRAFFIC SIGNAL SYSTEM ONLY AND NOT FOR RAMP METERING SYSTEM.
- AT LEAST THREE WORKING DAYS PRIOR TO PERFORMING ANY WORK ON EACH EXISTING SYSTEM, NOTIFY THE DEPARTMENT OF TRANSPORTATION, ELECTRICAL AND SIGNAL MAINTENANCE SUPERINTENDENT, PHONE (415) 330-6500.
- VERIFY THE LOCATION OF THE LOOP DETECTORS TO BE REPLACED PRIOR TO REPAVING.
- ALL LOOP DETECTORS AT EACH LOCATION MUST BE REPLACED AND TESTED WITHIN THE TIME ALLOTTED FOR TRAFFIC SIGNAL SYSTEM SHUTDOWN AT THAT LOCATION.
- PROVIDE TWO REPORTS PER LOCATION ON THE STATUS OF EACH DETECTOR REPLACEMENT SHOWING CONTINUITY AND INSTALLATION RESISTANCE READING. SUBMIT TO THE ENGINEER, ONE BEFORE STARTING WORK AND THE OTHER AFTER WORK HAS BEEN COMPLETED AT EACH LOCATION.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	27	43

M. Noor 3/10/14
 REGISTERED ELECTRICAL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

Mahmood Noor
 No. 13717
 Exp. 6-30-15
 ELECT

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.

ELECTRICAL INDEX

- E-1 ELECTRICAL INDEX, NOTES AND DETECTOR LOOP REPLACEMENT
- E-2 ELECTRICAL DETAILS

SAN PABLO AVENUE & ASHBY AVENUE

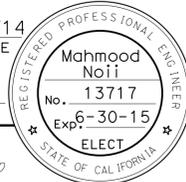
ASHBY AVENUE & 9TH STREET

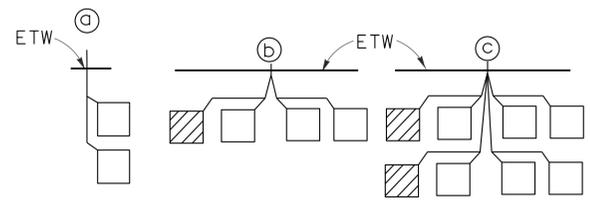
ASHBY AVENUE & 7TH STREET

COUNTY - ROUTE - PM	ALA 13 13.19 (LOCATION 1)								ALA 13 13.36 (LOCATION 2)								ALA 13 13.41 (LOCATION 3)												
	INTERSECTION DETECTOR				ADVANCE DETECTOR				INTERSECTION DETECTOR				ADVANCE				INTERSECTION DETECTOR												
	EB				EB				WB				EB				WB				EB				WB				
LANE NUMBER (FROM LEFT WITH RESPECT TO DIRECTION OF TRAFFIC. SEE E-2 FOR LANE DESCRIPTION)	1L	2T	3T	-	-	1T	2T	1T	2T	1L	2T	3T	1T	2T	-	1T	2T	1T	2T	1L	2T	3T	1L	2T	3T				
DISTANCE FROM LIMIT LINE (FEET)	-	-	-	-	-	174	174	174	174	-	-	-	-	-	174	174	174	174	-	-	-	-	-	-					
DETECTORS A. FRONT DETECTOR B. BICYCLE DETECTOR C. ADVANCE DETECTOR D. INTERMEDIATE DETECTOR	A	A	A	-	-	C	C	C	C	A	A	A	A	A	-	C	C	C	C	A	A	A	A	A	A				
PULL BOX LOCATION: A. RIGHT SHOULDER B. RIGHT SIDEWALK C. MEDIAN D. LEFT SHOULDER E. ISLAND	B				-				B				B				-				B				B				
HANDHOLE LOCATION: A. RIGHT SHOULDER/(RIGHT ETW) B. LEFT SHOULDER/(LEFT ETW) C. MEDIAN D. PAINTED MEDIAN	D	A	-	-	-	A	A	D	A	A	A	-	-	-	A	A	D	A	D	A	D	A	D	A					
TYPE & DETECTOR QUANTITY	TYPE A LOOP DETECTOR																												
	TYPE B LOOP DETECTOR																												
	TYPE C LOOP DETECTOR																												
	TYPE D LOOP DETECTOR																												
DETECTOR CONFIGURATION (SEE DETAIL ON E-2) a...f	b	c	-	-	-	a	a	b	c	c	-	a	a	b	c	b	c	b	c	b	c	b	c	b	c				
PULL BOX REPLACEMENT (Y=YES N=NO)	N				-				N				N				-				N				N				TOTAL
HANDHOLE REPLACEMENT (Y=YES N=NO)	Y	Y	-	-	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				
LOOP DETECTOR TOTAL	4	4	4	-	-	1	1	1	1	4	4	4	4	4	-	1	1	1	1	4	4	4	4	4	4				
COMMENTS																													

DETECTOR LOOP REPLACEMENT



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	28	43
			3/10/14	DATE	
REGISTERED ELECTRICAL ENGINEER			DATE		
3-10-14			PLANS APPROVAL DATE		
			<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		

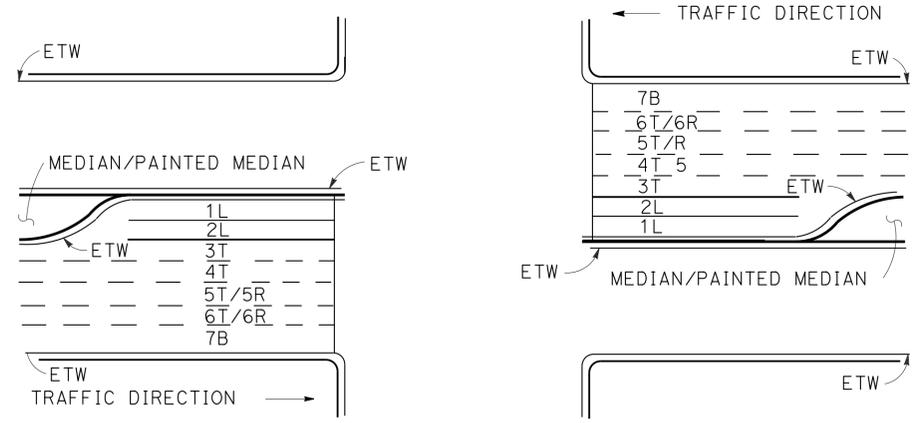


TYPICAL DETECTOR CONFIGURATIONS

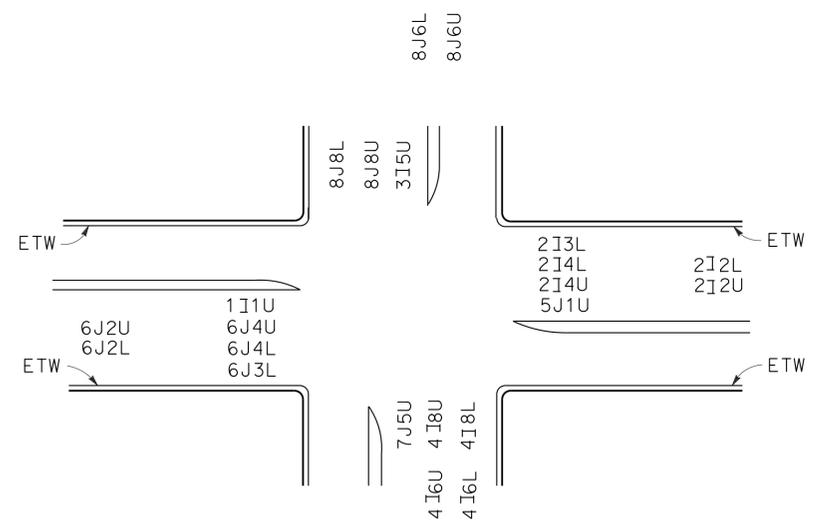
LANE DESCRIPTION

NUMBER OF LANE FROM LEFT WITH RESPECT TO TRAFFIC DIRECTION

- 1= FIRST LANE FROM LEFT
- 2= SECOND LANE FROM LEFT
- 3= THIRD LANE FROM LEFT
- 4= FOURTH LANE FROM LEFT
- 5= FIFTH LANE FROM LEFT
- T=THROUGH TRAFFIC MOVEMENT
- L=LEFT TURN TRAFFIC MOVEMENT
- R=RIGHT TURN TRAFFIC MOVEMENT
- B= BICYCLE LANE



LANE CONFIGURATION (TYPICAL)
TRAFFIC SIGNAL

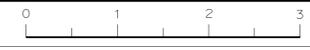


DETECTOR IDENTIFICATION (TYPICAL)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL
 FUNCTIONAL SUPERVISOR: BEHZAD COLEMOHAMMADI
 HAWA GARDIZI
 MAHMOOD NOII
 REVISIONS: HG 3/10/14
 REVISIONS: DATE REVISION

ELECTRICAL DETAILS

NO SCALE



LAST REVISION: DATE PLOTTED => 21-MAR-2014
 01-17-14 TIME PLOTTED => 11:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	29	43

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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.

REVISED STANDARD PLAN RSP A10B

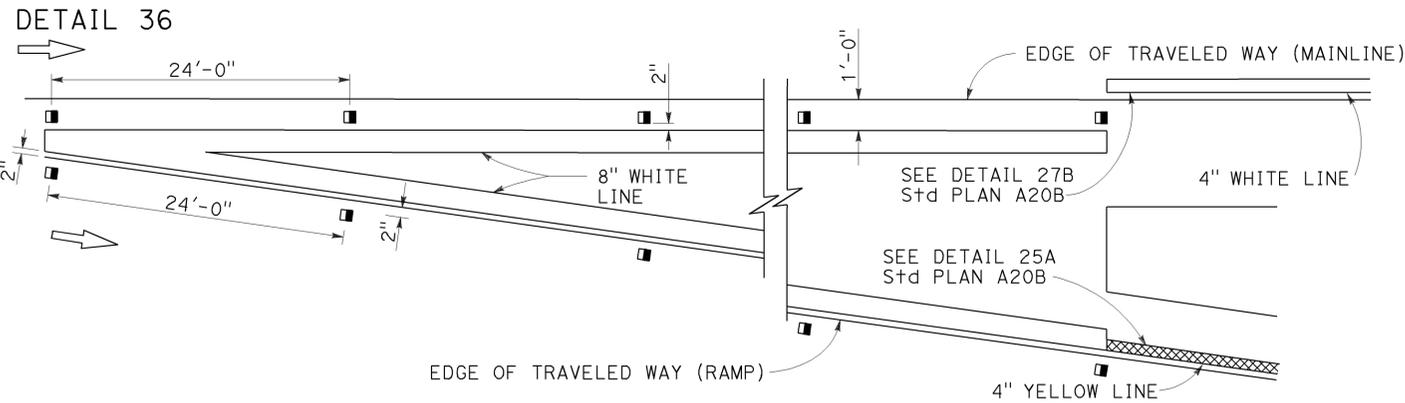
	M
Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD 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

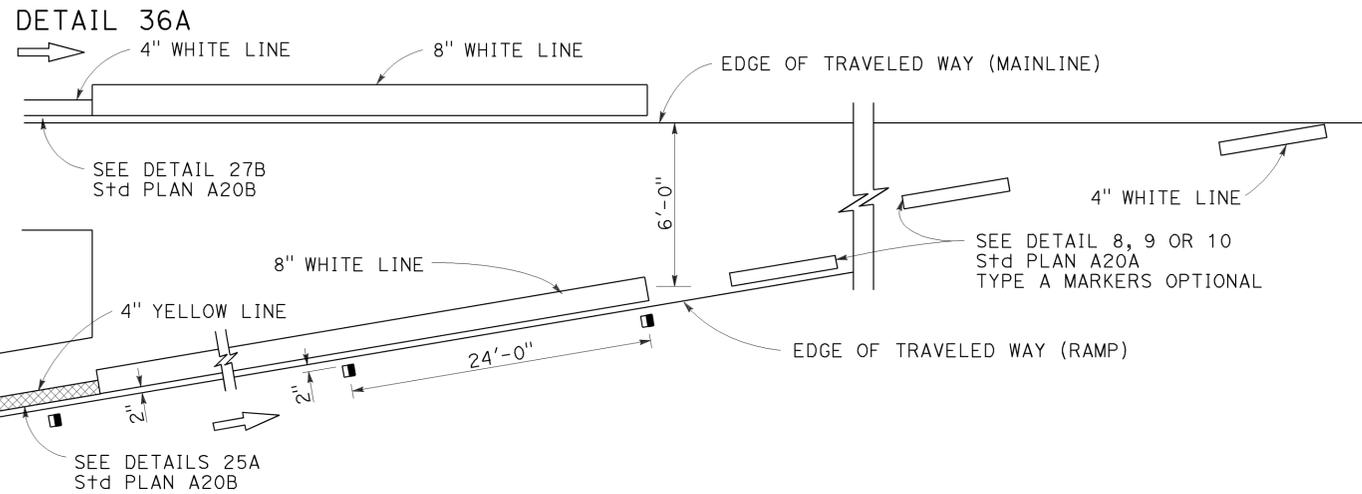
	S
S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
⌘	STATION LINE
SM	SELECTED MATERIAL
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

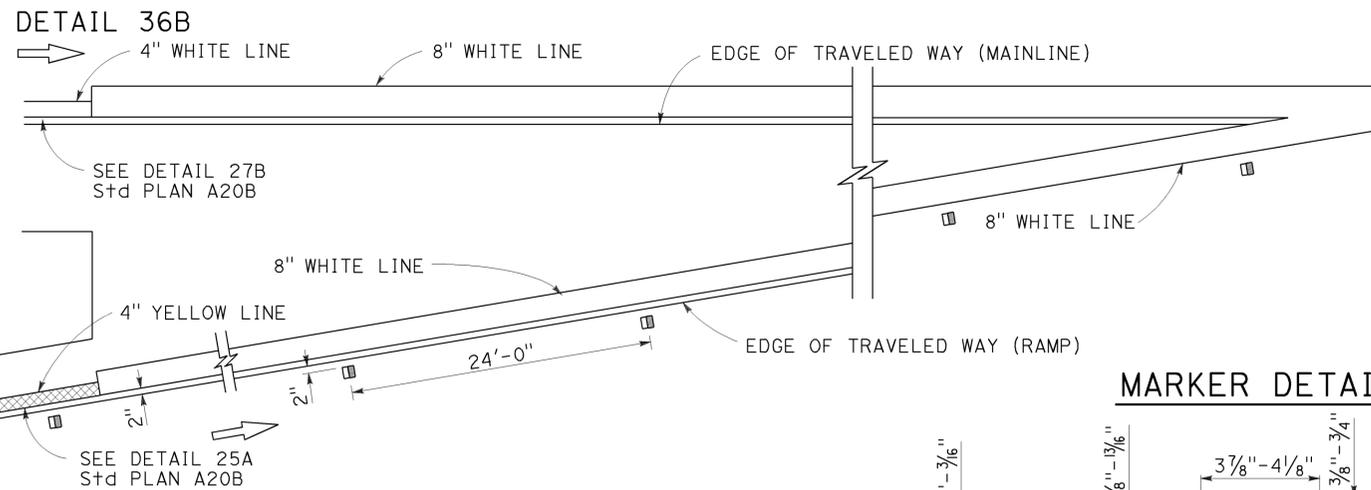
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

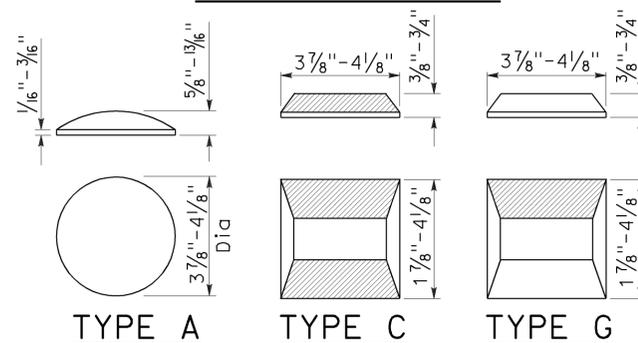


MARKER DETAILS

LEGEND:

MARKERS

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



RETROREFLECTIVE FACE

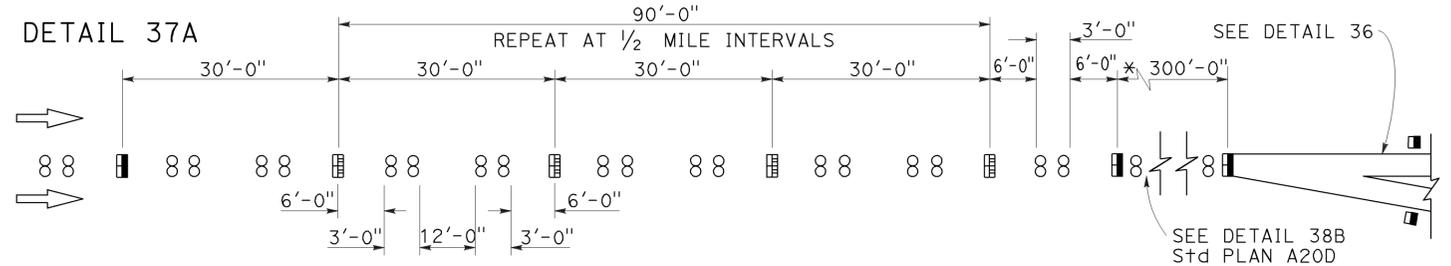
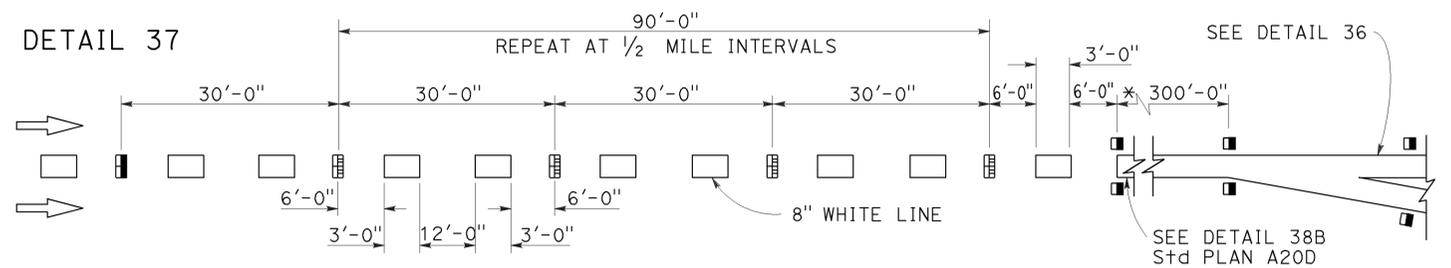
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	30	43

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

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

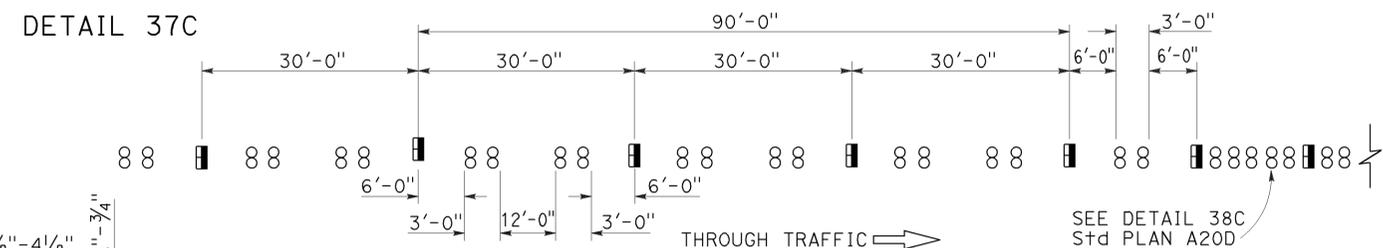
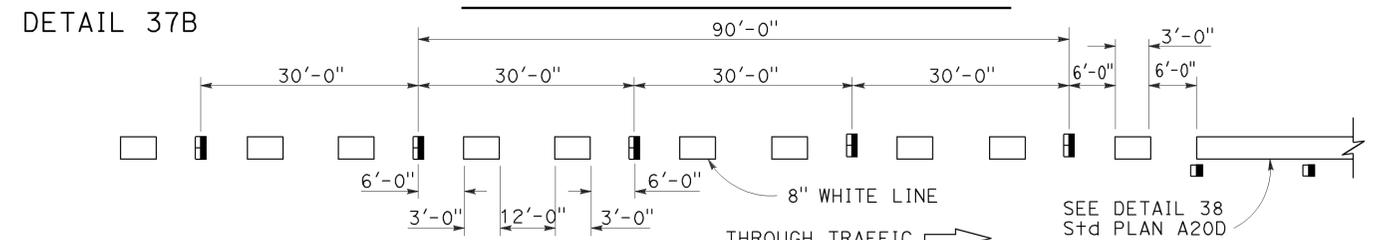
TO ACCOMPANY PLANS DATED 3-10-14

LANE DROP AT EXIT RAMP



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

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

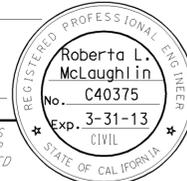
RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

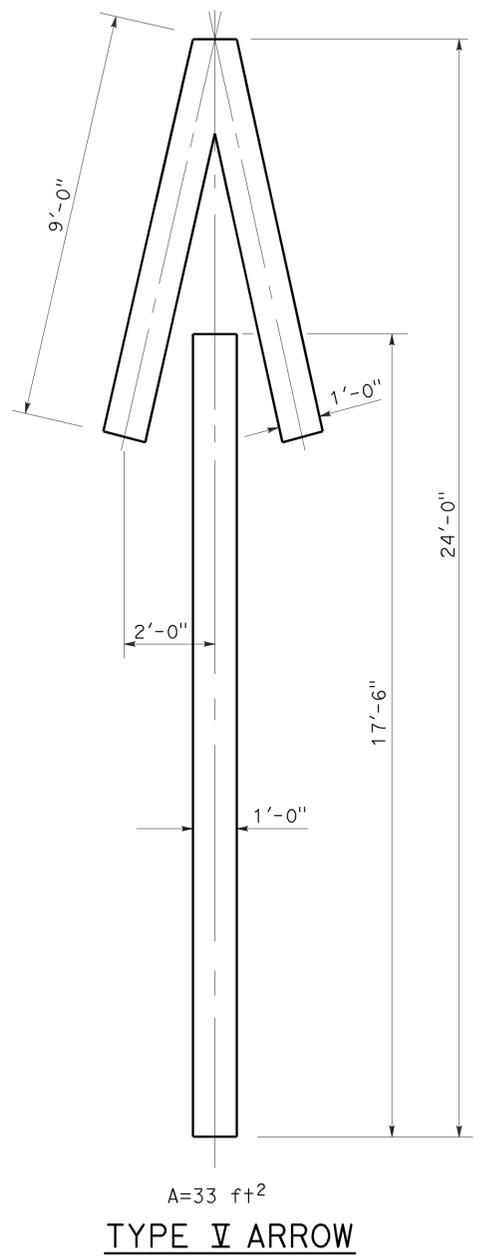
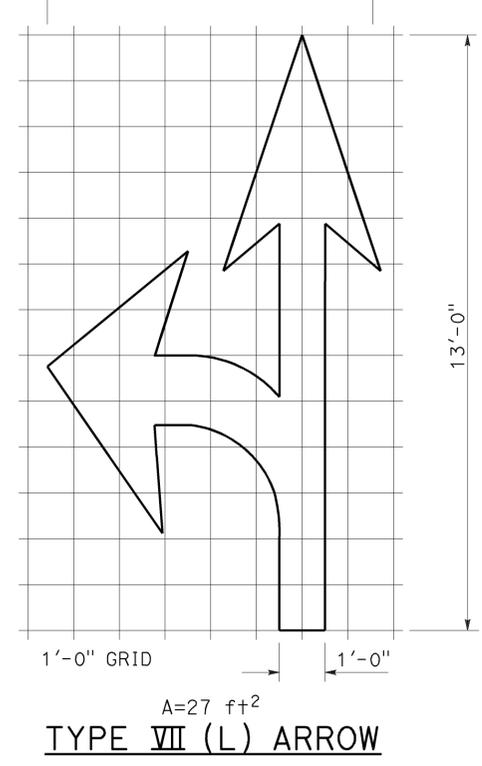
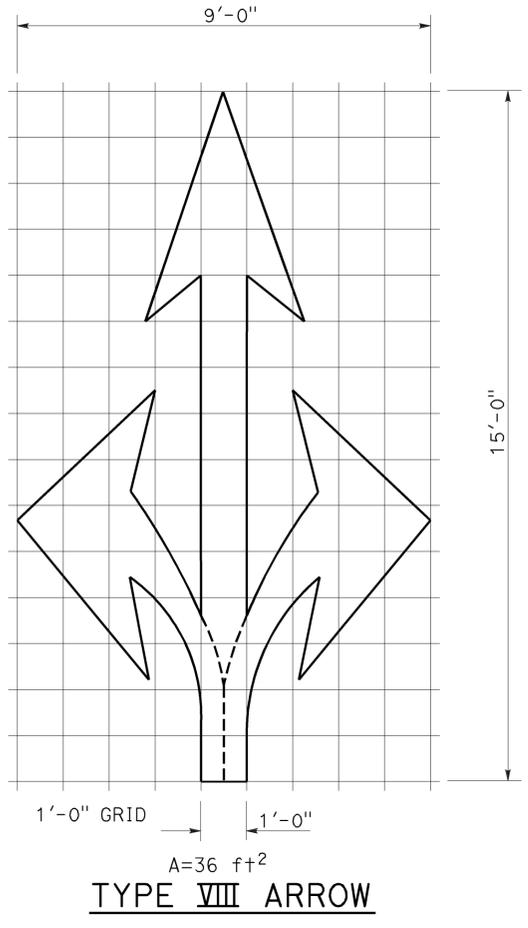
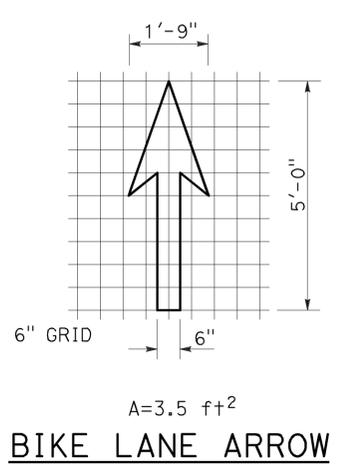
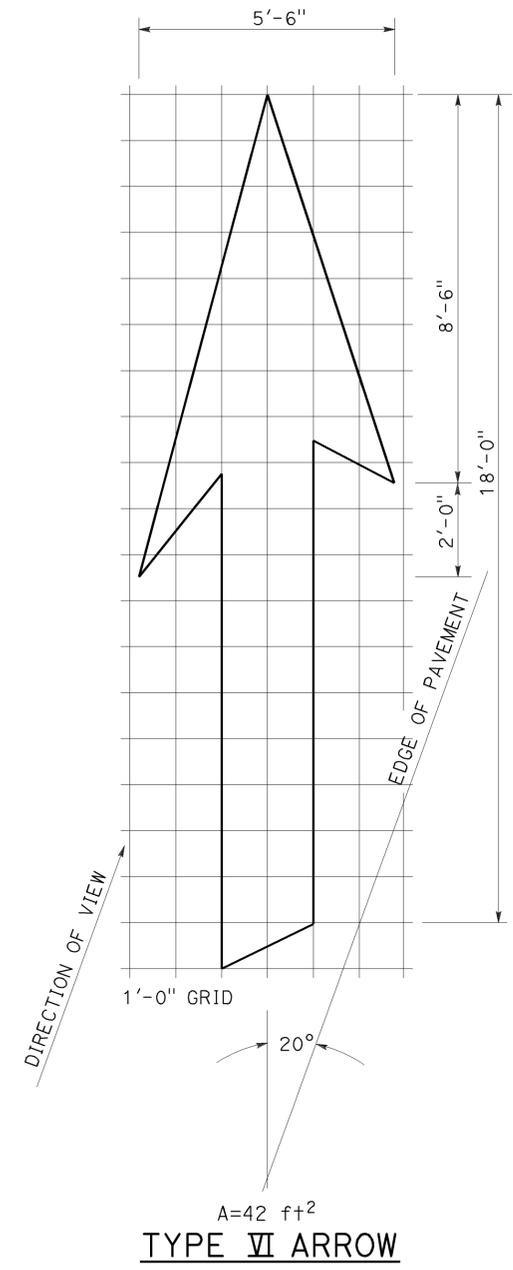
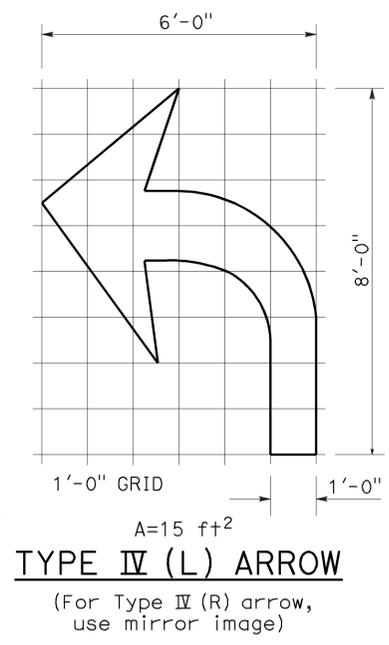
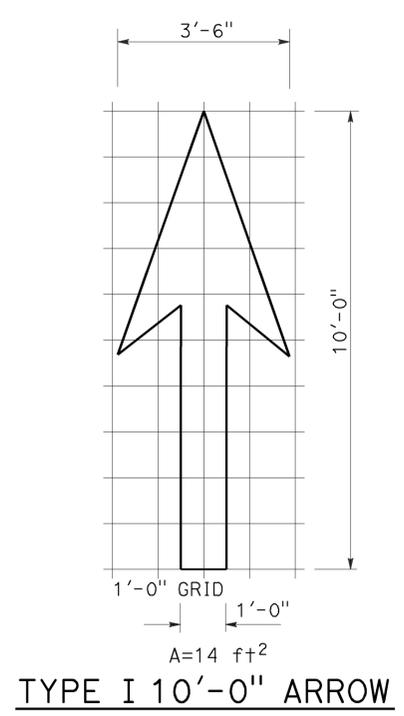
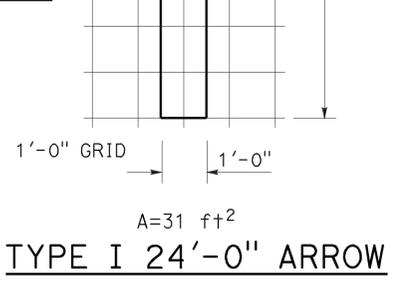
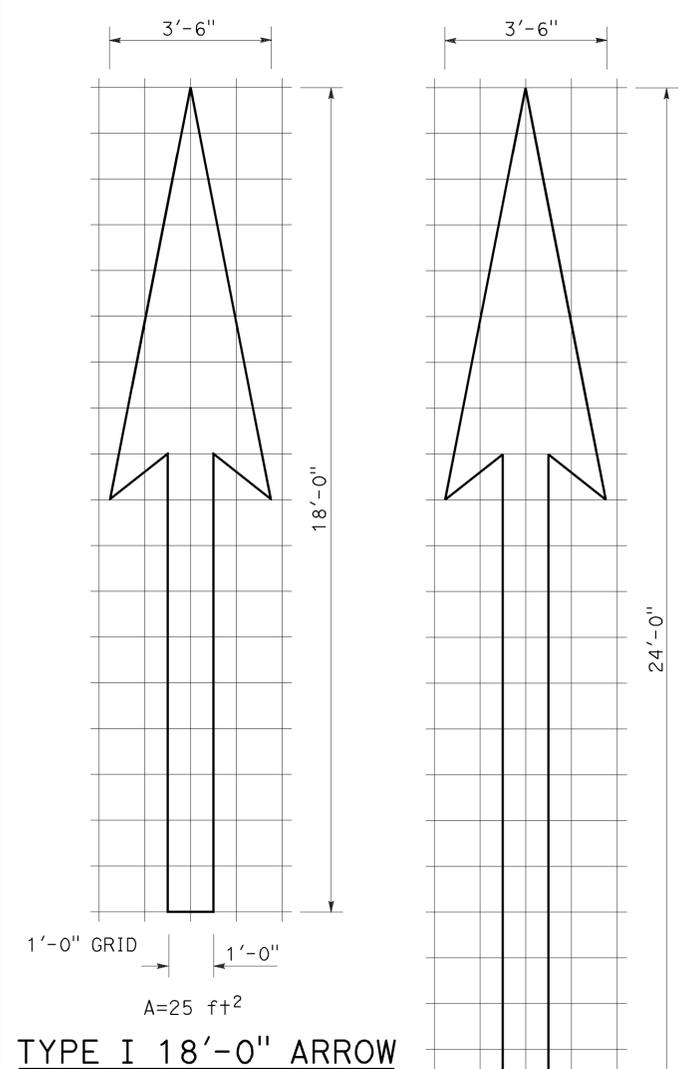
2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	31	43

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



TO ACCOMPANY PLANS DATED 3-10-14



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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

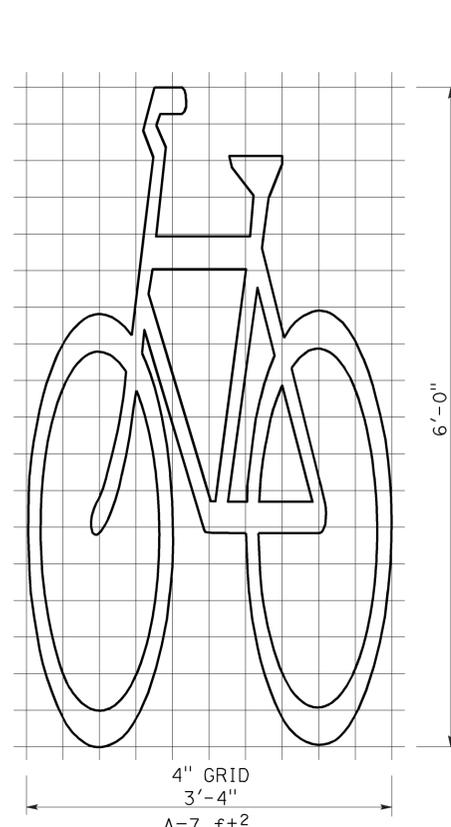
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	32	43

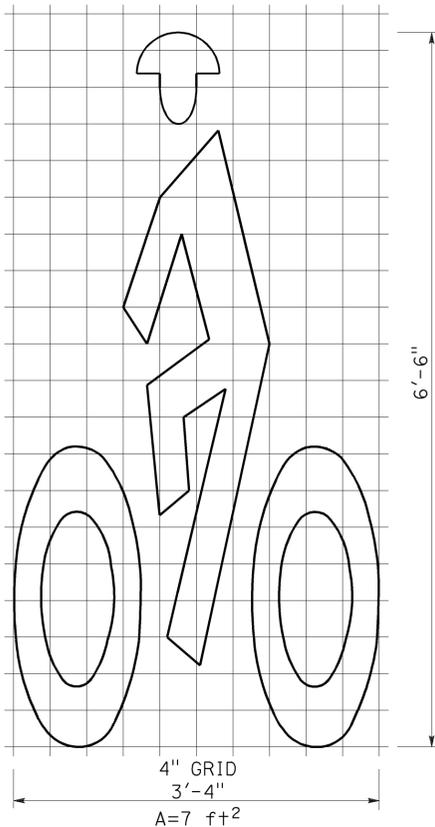
Registered Professional Engineer
 Roberto L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

October 19, 2012
 PLANS APPROVAL DATE

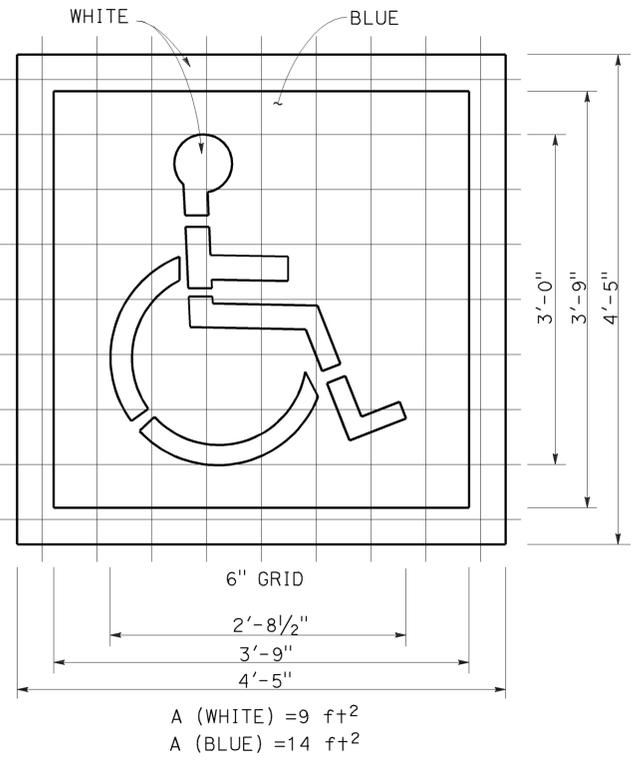
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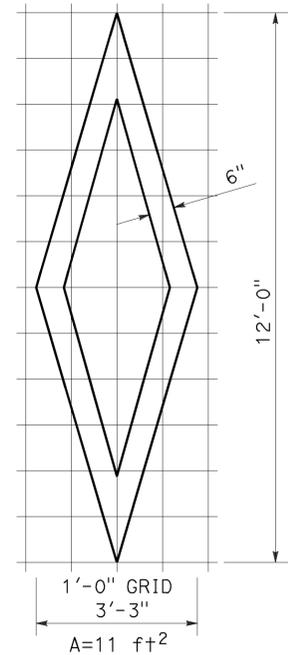
BIKE LANE SYMBOL WITHOUT PERSON



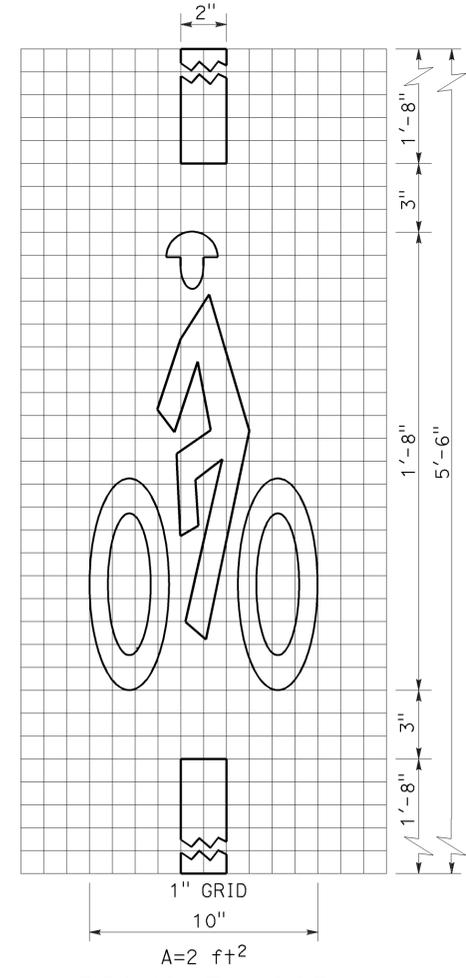
BIKE LANE SYMBOL WITH PERSON



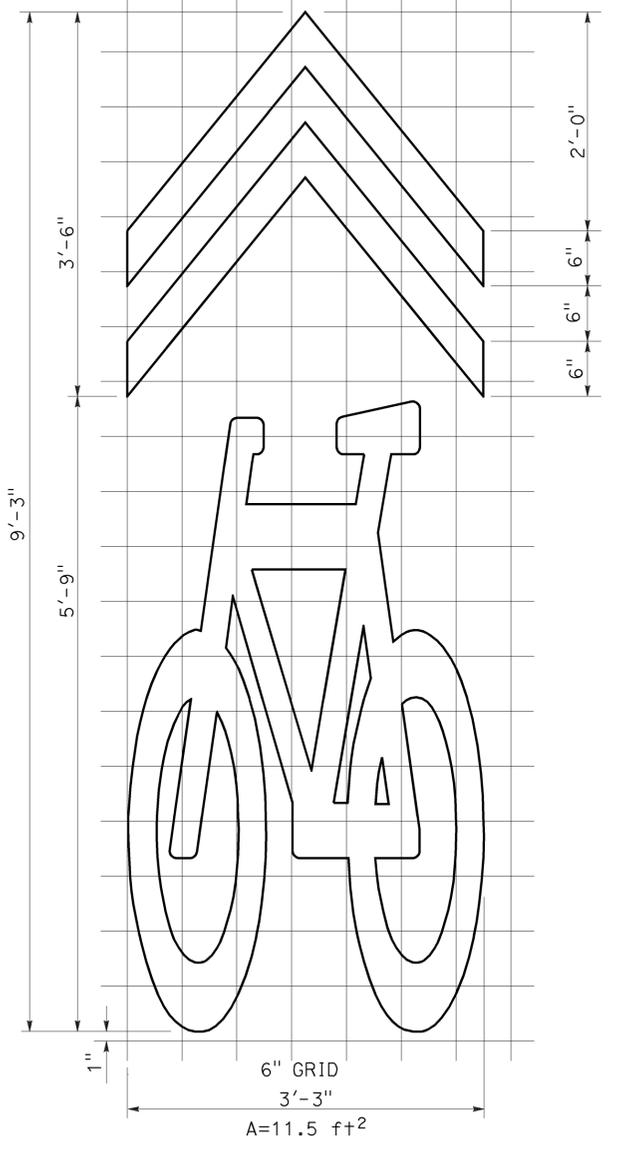
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



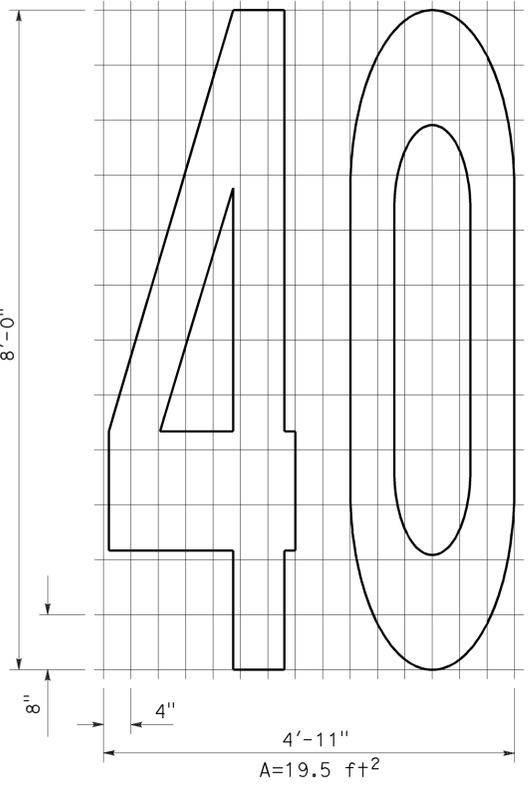
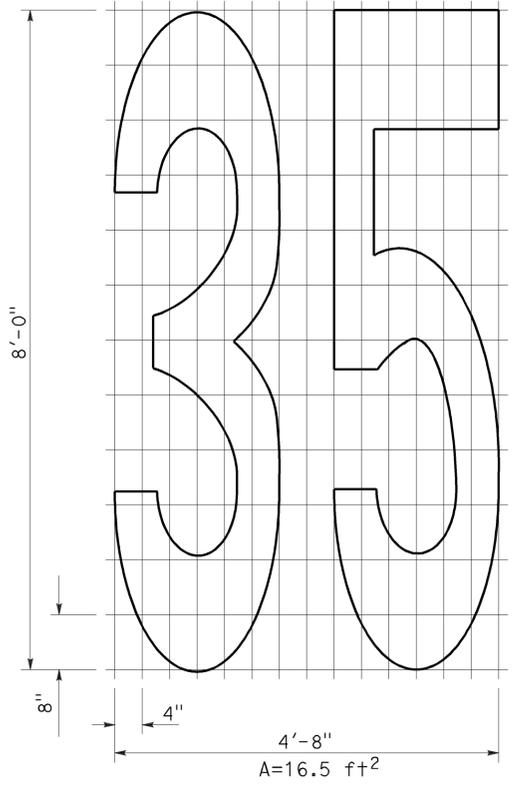
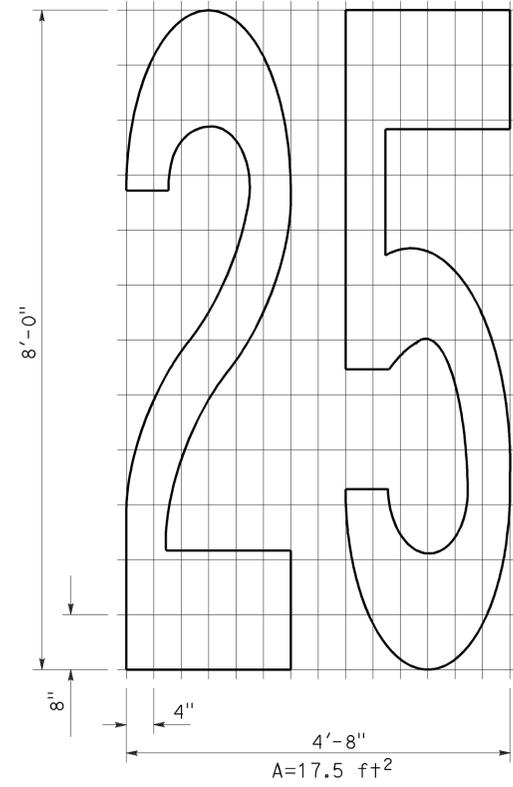
DIAMOND SYMBOL



BICYCLE LOOP DETECTOR SYMBOL



SHARED ROADWAY BICYCLE MARKING



NUMERALS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
 SYMBOLS AND NUMERALS**
 NO SCALE

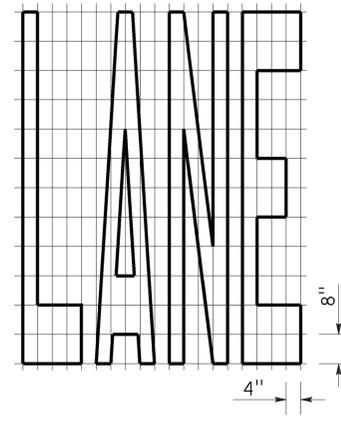
RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C
 DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24C

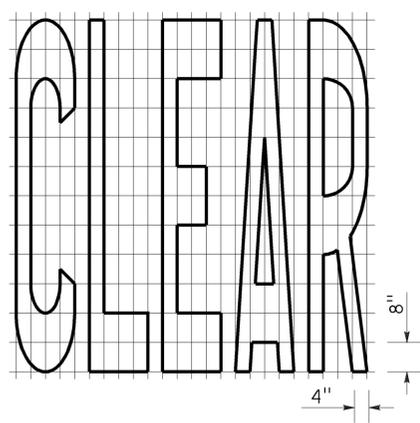
2010 REVISED STANDARD PLAN RSP A24C

TO ACCOMPANY PLANS DATED 3-10-14

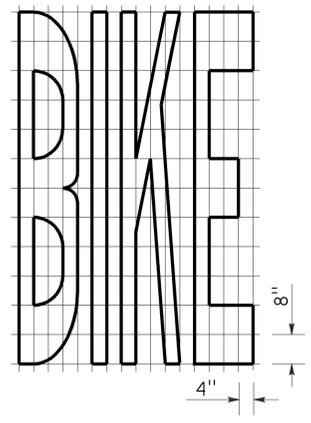
2010 REVISED STANDARD PLAN RSP A24E



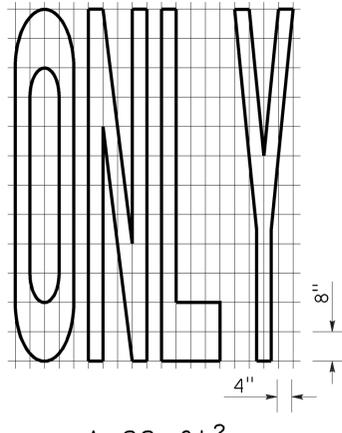
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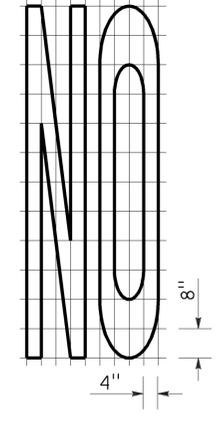
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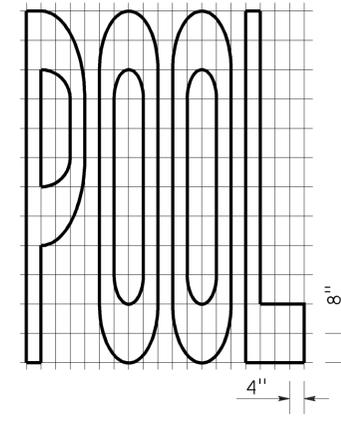
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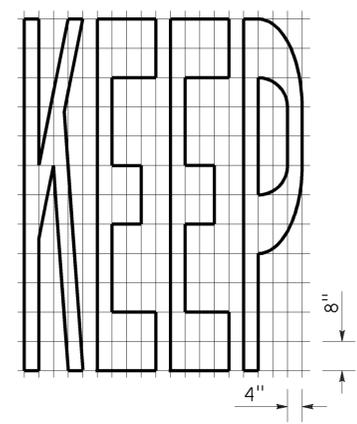
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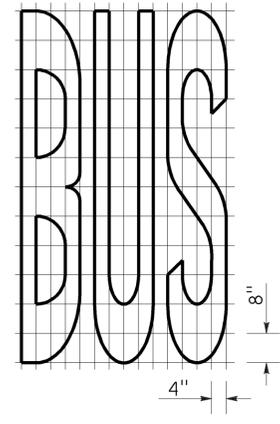
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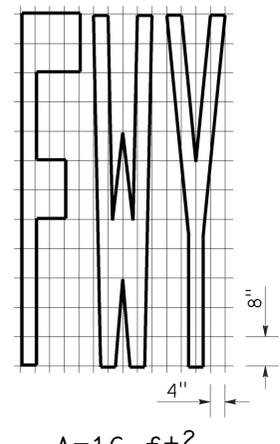
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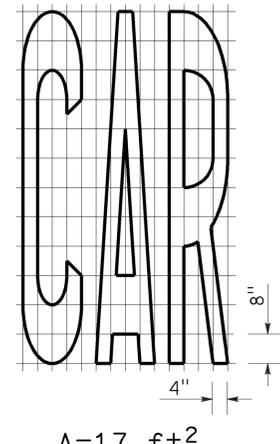
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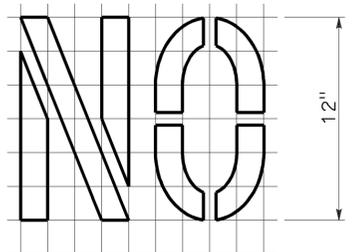


A=16 ft²



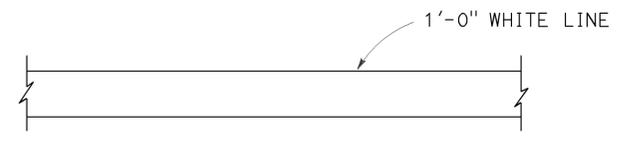
A=17 ft²

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

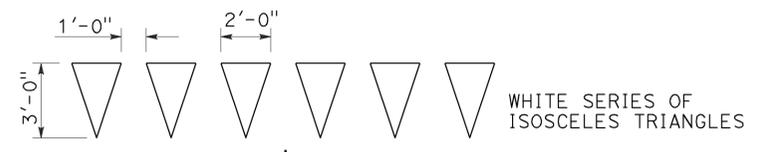


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



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.

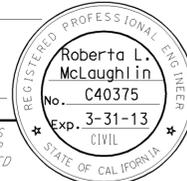
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**

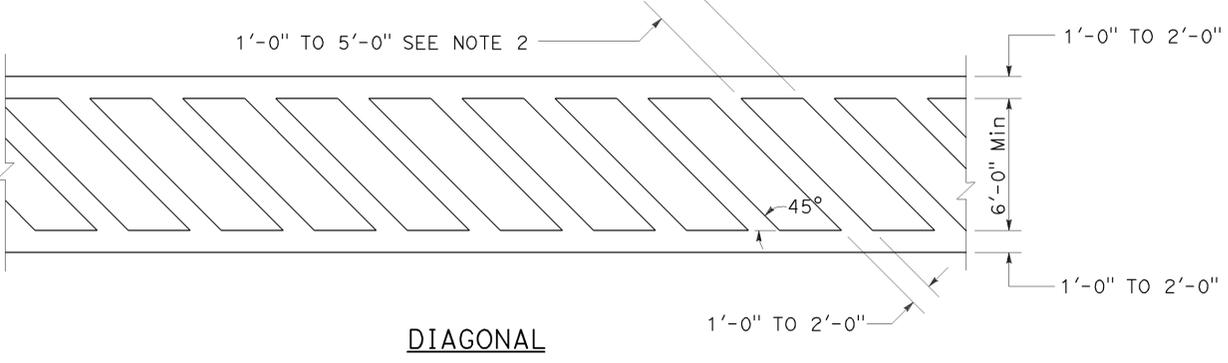
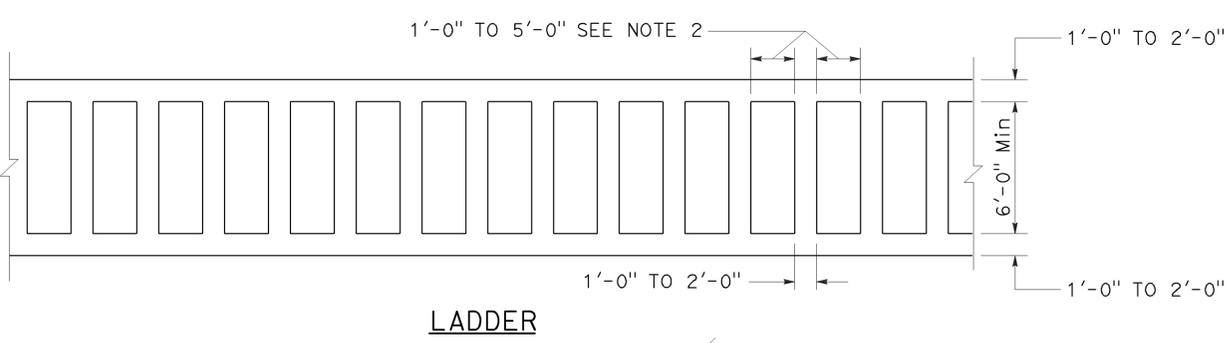
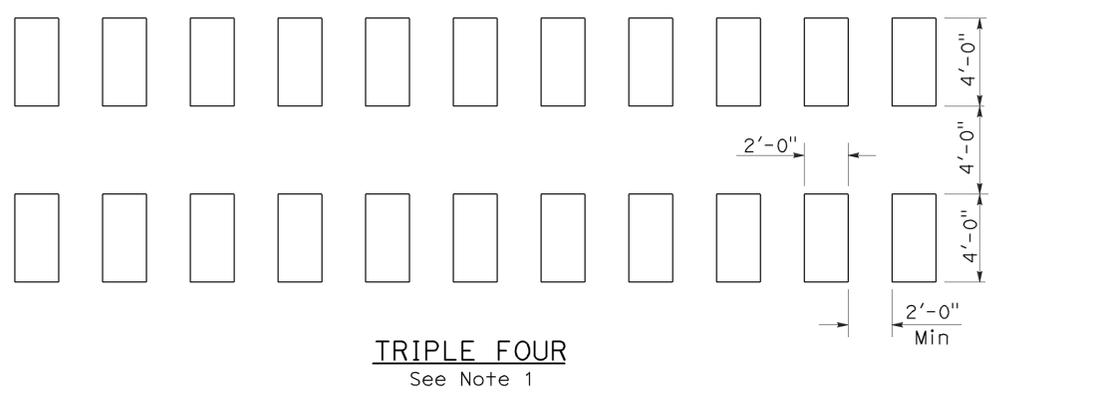
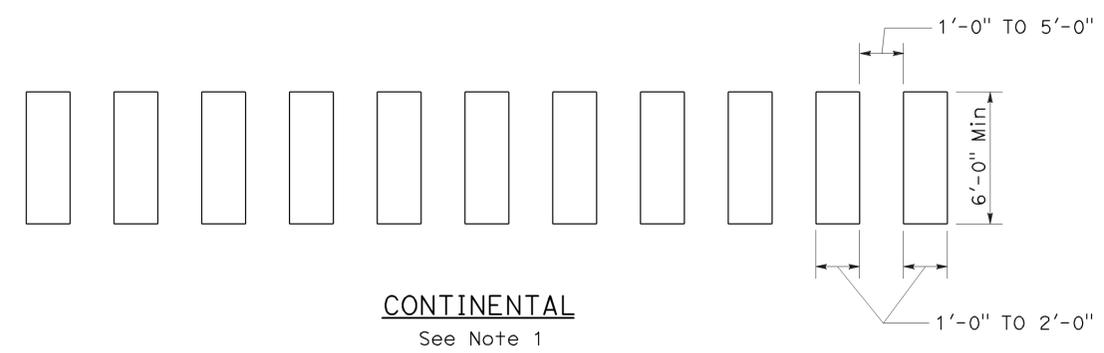
NO SCALE

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	34	43

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

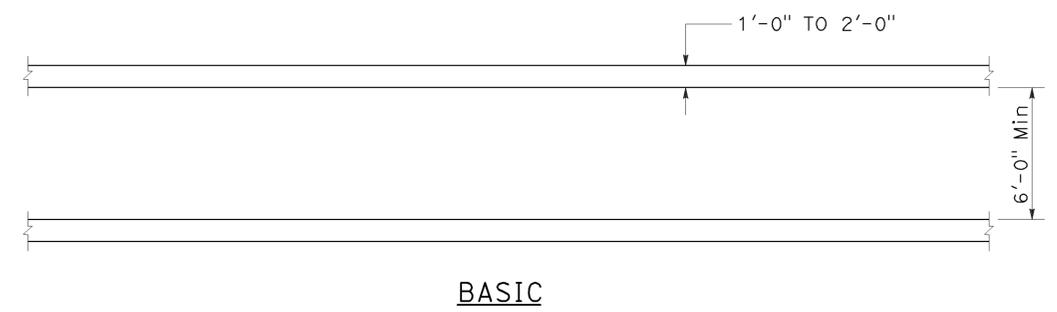
TO ACCOMPANY PLANS DATED 3-10-14



HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.

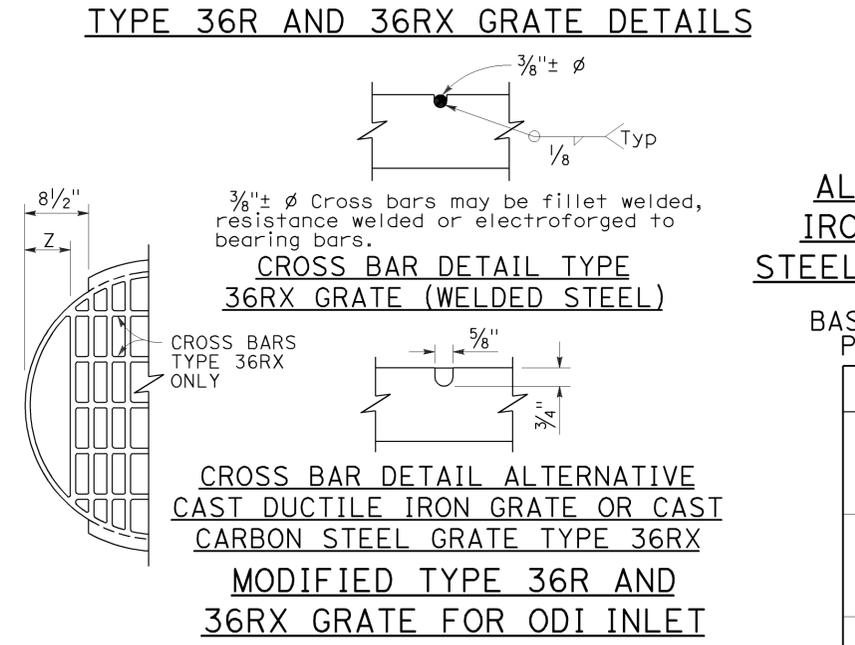
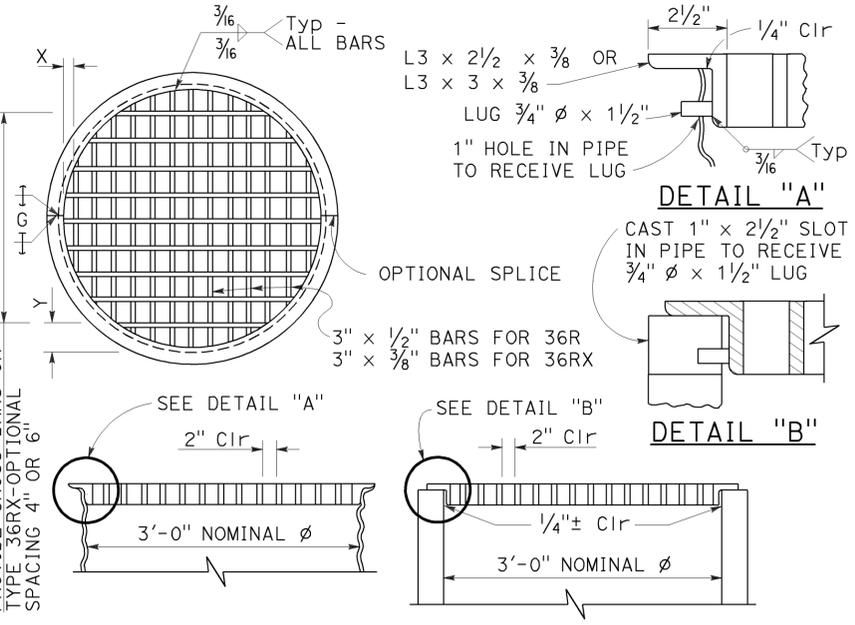
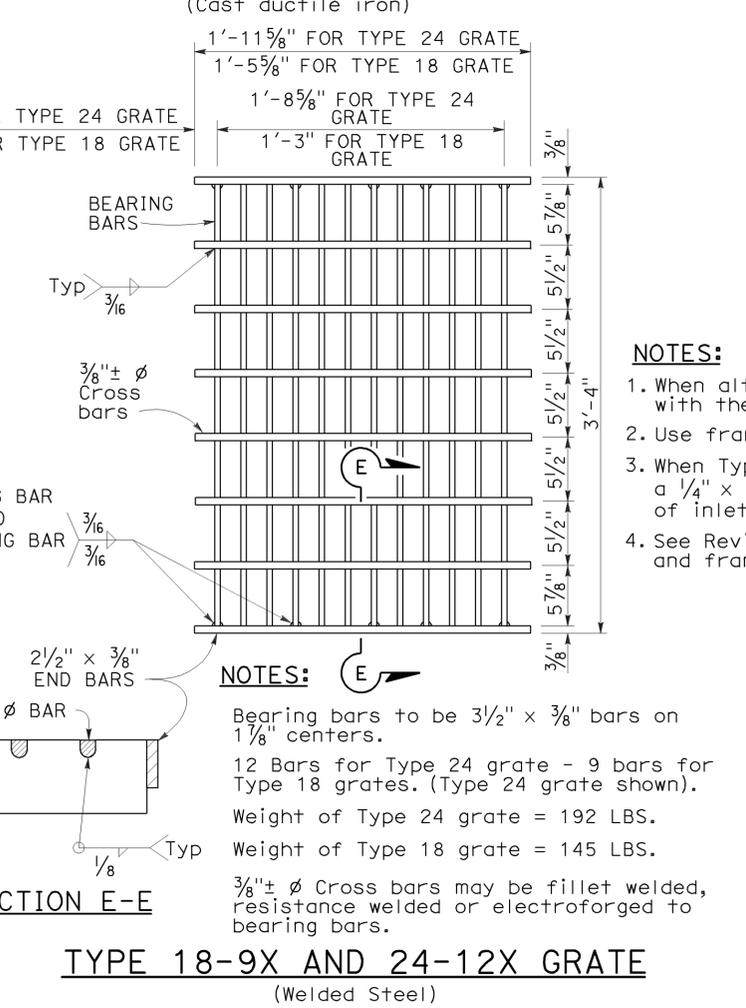
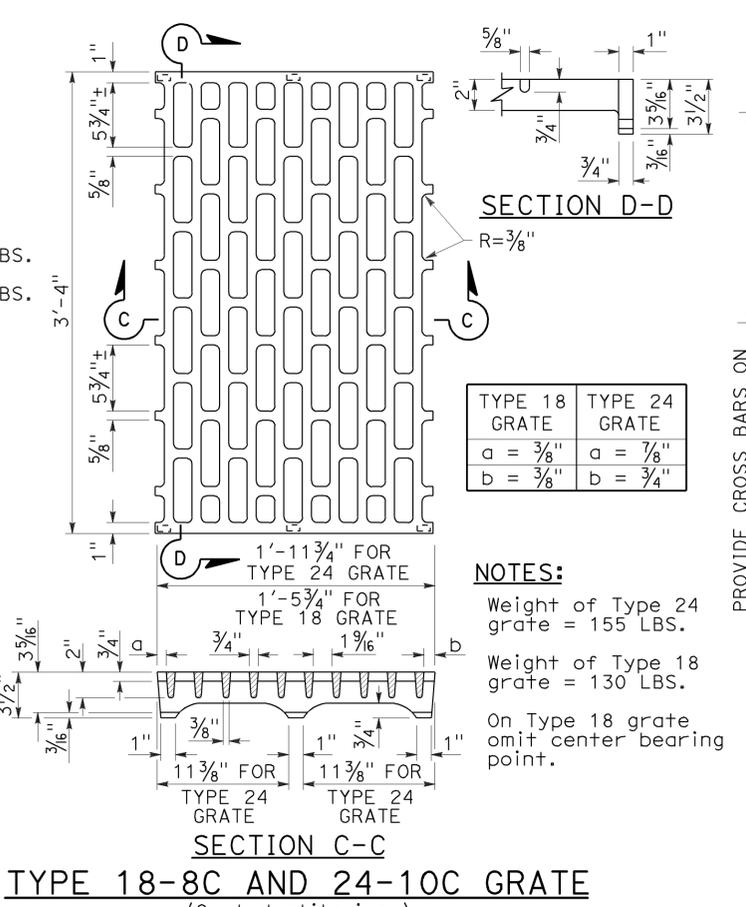
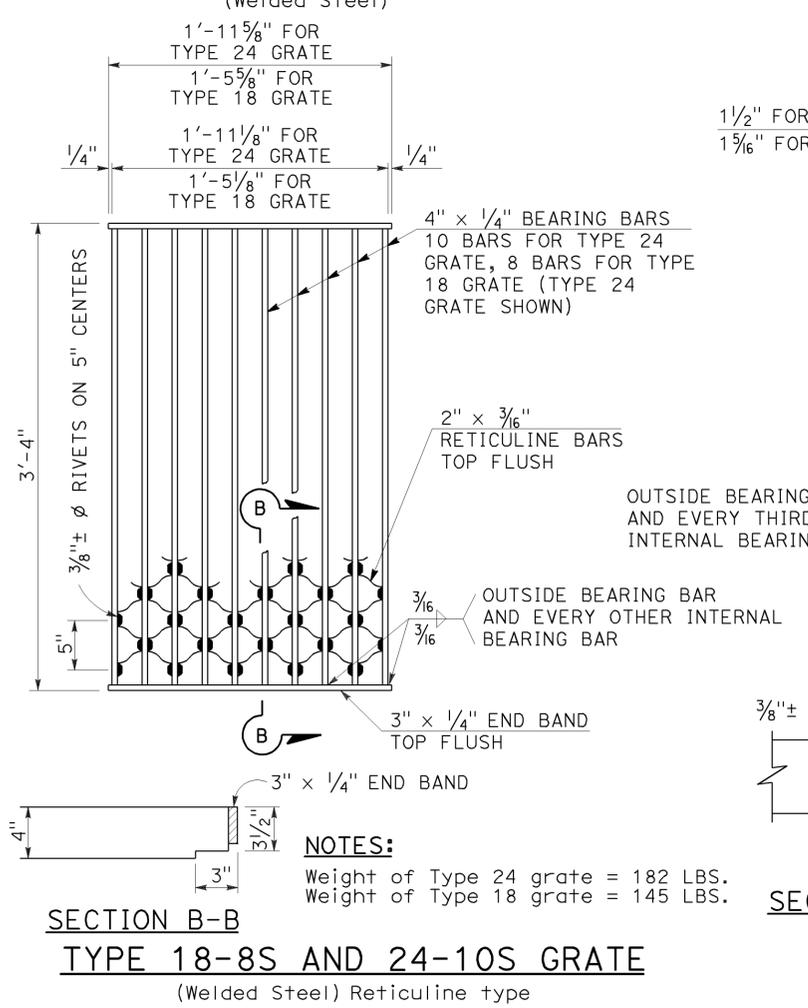
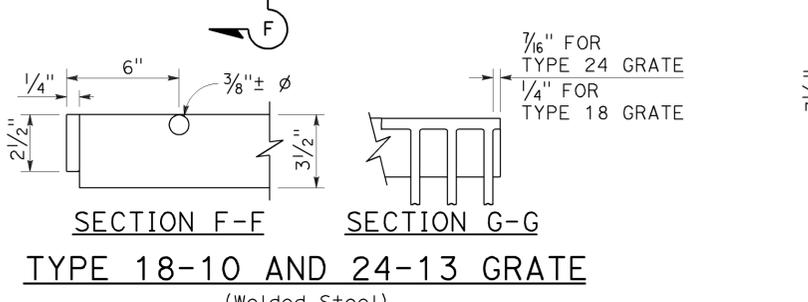
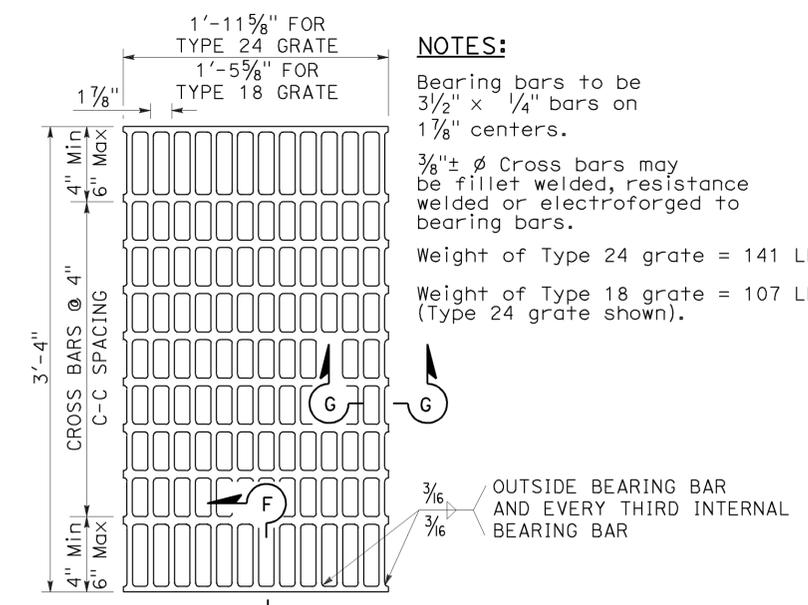


BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
CROSSWALKS**

NO SCALE
RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

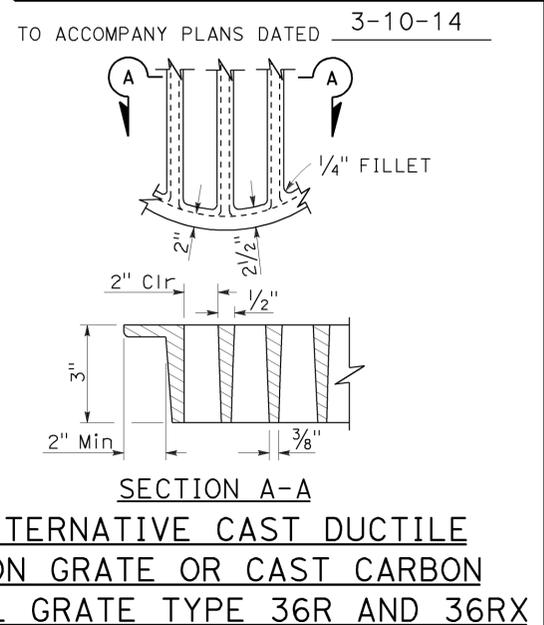
2010 REVISED STANDARD PLAN RSP A24F



- NOTES:**
- When alternative grates are allowed - Final pay based on alternative with the lesser weight.
 - Use frame shown on Standard Plan D74A, D74B or RSP D77A as appropriate.
 - When Type 24-10S, 24-12X or 24-13 grates are used with GDO Inlets, a 1/4" x 3/2" x 3'-4 7/8" steel bar shall be welded across the center of inlet frame to separate the individual grates.
 - See Revised Standard Plan RSP D77A for connecting chain to welded grate and frame. When chain is required, do not use cast ductile iron grate.

GRATE BAR SPACING TABLE

TYPE	NO. OF BARS	CLEAR BAR SPACING	X	Y		Z
				4" SPACING	6" SPACING	
36R	13	2"	2 1/8"	-	-	-
36RX (STEEL)	15	2"	9/16"	3 3/4"	5 3/4"	-
36RX (CAST)	13	2"	2 1/8"	3 3/4"	5 3/4"	-
36R Mod	12	2"	2 1/8"	-	-	5"
36RX Mod (STEEL)	13	2"	9/16"	3 3/4"	5 3/4"	5 1/16"
36RX Mod (CAST)	12	2"	2 1/8"	3 3/4"	5 3/4"	5"



BASIS FOR Misc IRON AND STEEL FINAL PAY WEIGHTS FOR DRAINAGE INLETS

INLET TYPE	GRATE TYPE	No. OF GRATES	WEIGHT LB
GDO (SEE NOTE 4)	24-10C	2	391
	24-10S	2	456
	24-12X	2	473
	24-13	2	374
G0, G0L, G1, G2, G3, G4 (TYPE 24)	24-10C	1	202
	24-10S	1	229
	24-12X	1	239
	24-13	1	188
G4 (TYPE 18) G5, G6	18-8S	1	187
	18-9X	1	187
	18-10	1	149
GT1, GT2	18-8S	2	374
	18-9X	2	374
	18-10	2	298
GT3, GT4	24-10C	2	404
	24-10S	2	458
	24-12X	2	478
	24-13	2	376
ODI	36RX (Mod)	1	196
GMP, GCP, GCPI	36RX	1	215
ODI	36R (Mod)	1	220
GMP, GCP, GCPI	36R	1	236
TRASH RACK			22
GRATE CHAIN			3

2010 REVISED STANDARD PLAN RSP D77B

LEGEND:

AB	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN
BP	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
CB	INSTALL CONDUIT INTO EXISTING PULL BOX
CC	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
CF	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
DH	DETECTOR HANDHOLE
FA	FOUNDATION TO BE ABANDONED
IS	INSTALL SIGN ON SIGNAL MAST ARM
NS	NO SLIP BASE ON STANDARD
PEC	PHOTOELECTRIC CONTROL
PEU	PHOTOELECTRIC UNIT
RC	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
RE	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
RL	RELOCATE EQUIPMENT
RR	REMOVE AND REUSE EQUIPMENT
RS	REMOVE AND SALVAGE EQUIPMENT
SC	SPLICE NEW TO EXISTING CONDUCTORS
SD	SERVICE DISCONNECT
TSP	TELEPHONE SERVICE POINT

ABBREVIATIONS

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	36	43

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Theresa
Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 3-10-14

SOFFIT AND WALL MOUNTED LUMINAIRES

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

NOTE:
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

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

MISCELLANEOUS ELECTROLIERS

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

- NOTES:**
- HPS luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. HPS luminaires shall be 200 W when installed on other type standards or poles, unless otherwise specified.
 - LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
 - Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1A

2010 REVISED STANDARD PLAN RSP ES-1A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	37	43

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE
 Theresa Aziz Gabriel
 No. E15129
 Exp. 6-30-14
 ELECTRICAL
 STATE OF CALIFORNIA
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TO ACCOMPANY PLANS DATED 3-10-14

CONDUIT

SIGNAL EQUIPMENT

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

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

SIGNAL EQUIPMENT Cont

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

SERVICE EQUIPMENT

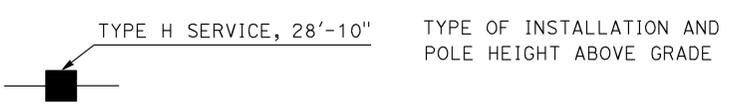
NEW	EXISTING	
---OH---	---oh---	OVERHEAD LINES
		WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
		SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
		TELEPHONE DEMARCATION CABINET

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

NOTES:

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

POLE-MOUNTED SERVICE DESIGNATION



FLASHING BEACON

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

ILLUMINATED OVERHEAD SIGN

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

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

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

REVISED STANDARD PLAN RSP ES-1B

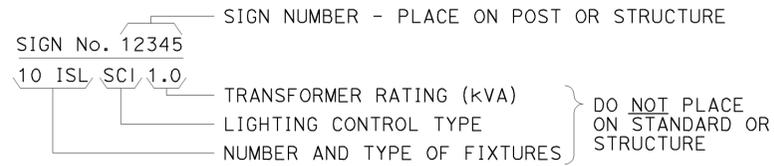
2010 REVISED STANDARD PLAN RSP ES-1B



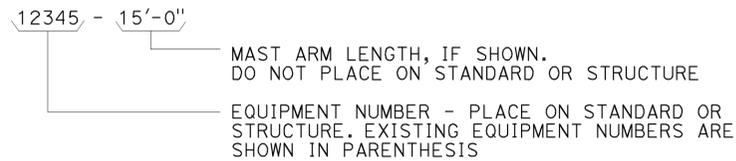
TO ACCOMPANY PLANS DATED 3-10-14

EQUIPMENT IDENTIFICATION

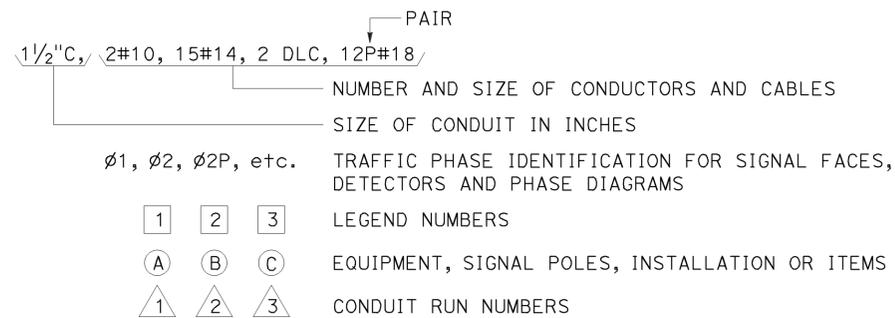
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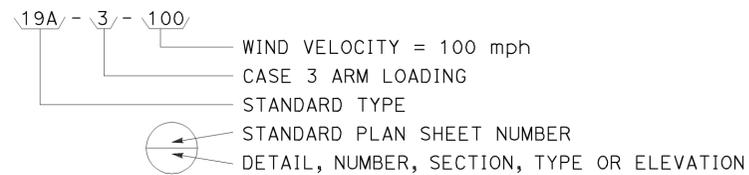
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



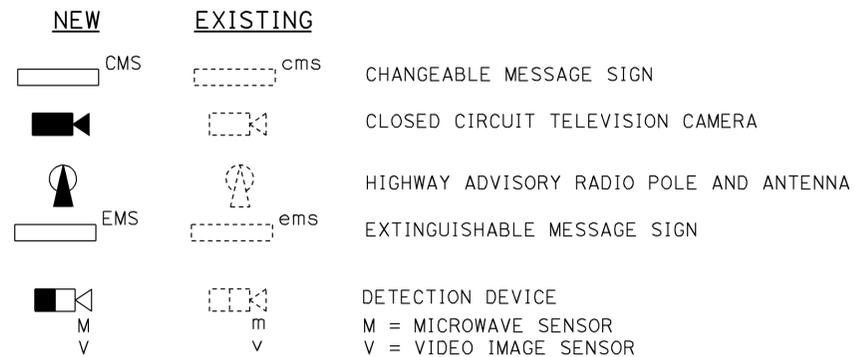
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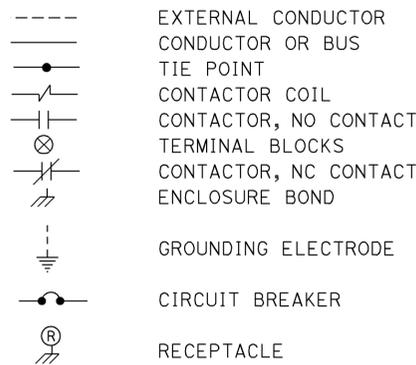
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



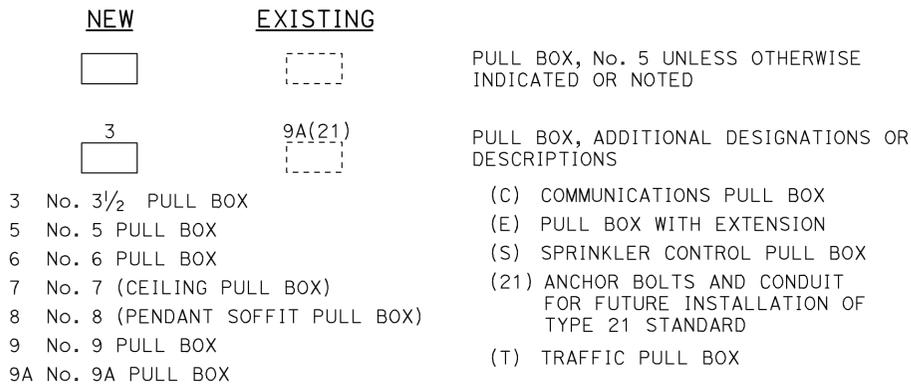
MISCELLANEOUS EQUIPMENT



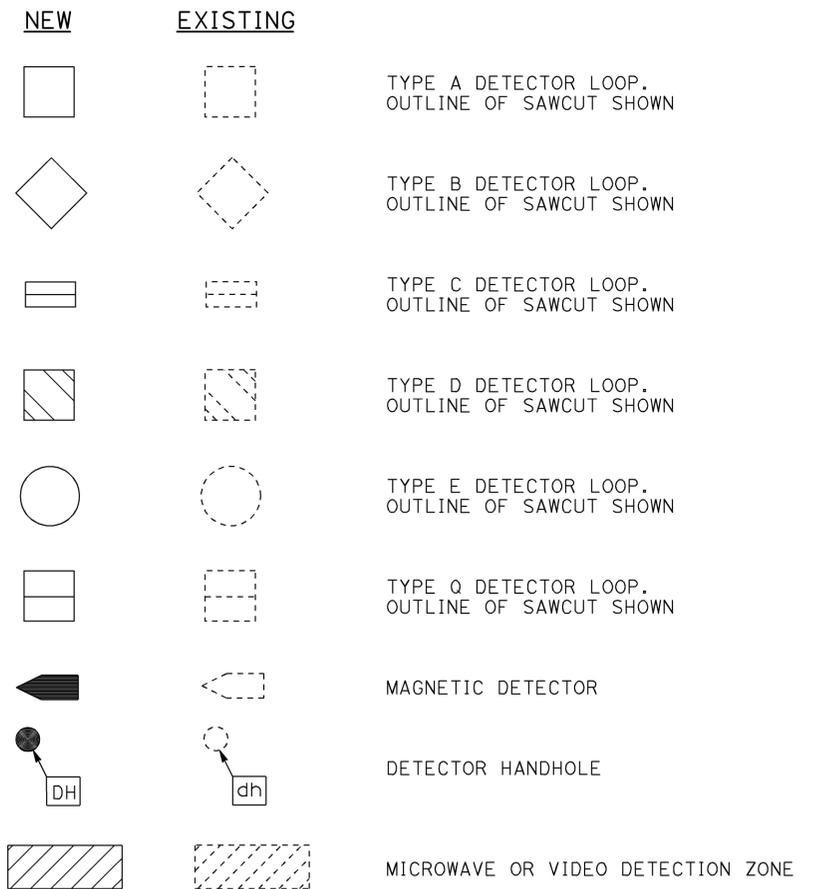
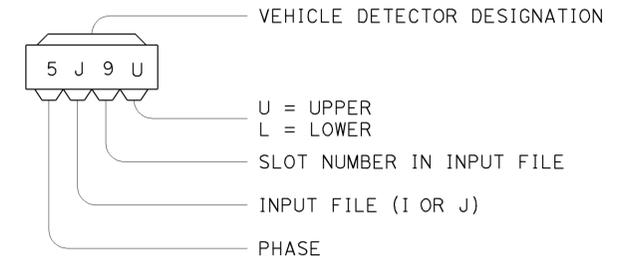
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

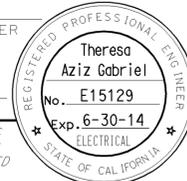
ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

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

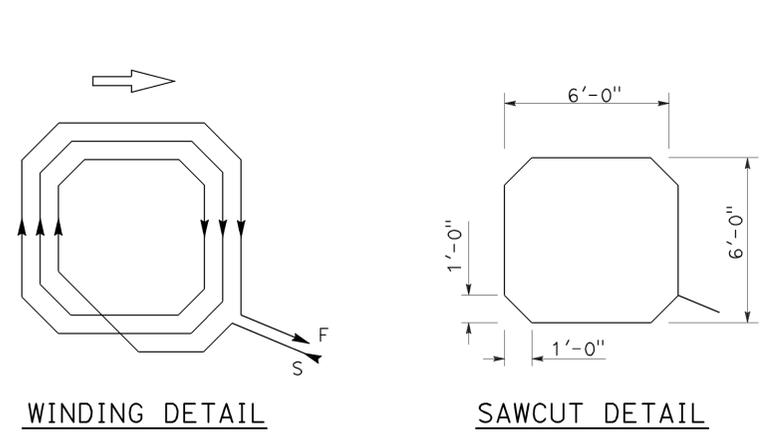
REVISED STANDARD PLAN RSP ES-1C

2010 REVISED STANDARD PLAN RSP ES-1C

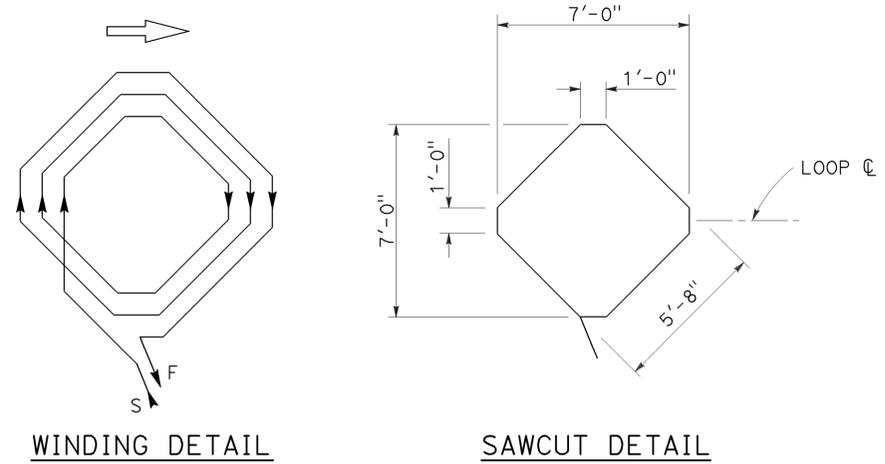
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13	13.2/13.7	39	43
<i>Theresa Gabriel</i> REGISTERED ELECTRICAL ENGINEER July 19, 2013 PLANS APPROVAL DATE <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
					

TO ACCOMPANY PLANS DATED 3-10-14

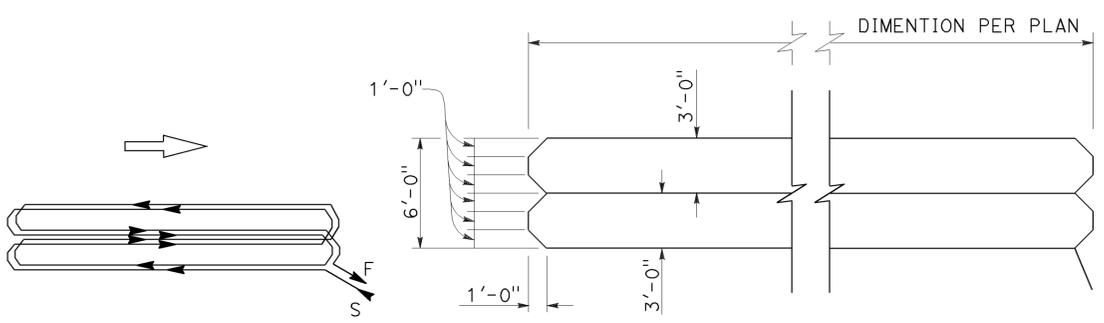
2010 REVISED STANDARD PLAN RSP ES-5B



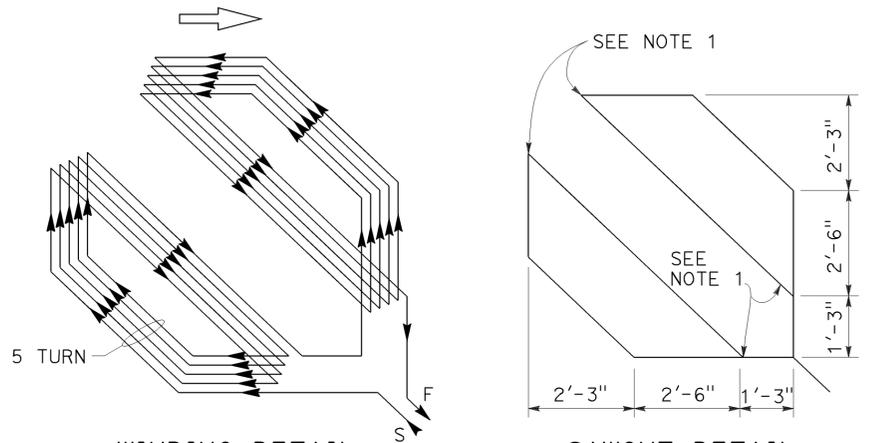
WINDING DETAIL
SAWCUT DETAIL
TYPE A LOOP DETECTOR CONFIGURATION



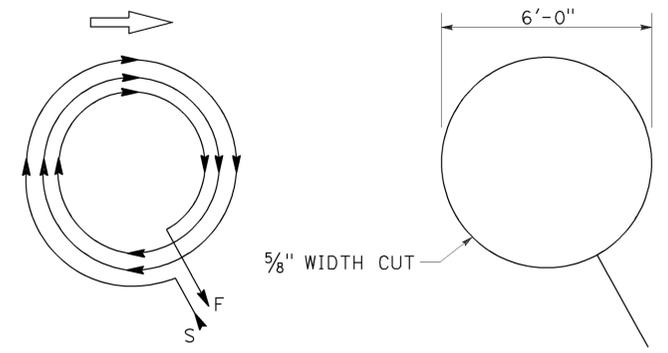
WINDING DETAIL
SAWCUT DETAIL
TYPE B LOOP DETECTOR CONFIGURATION



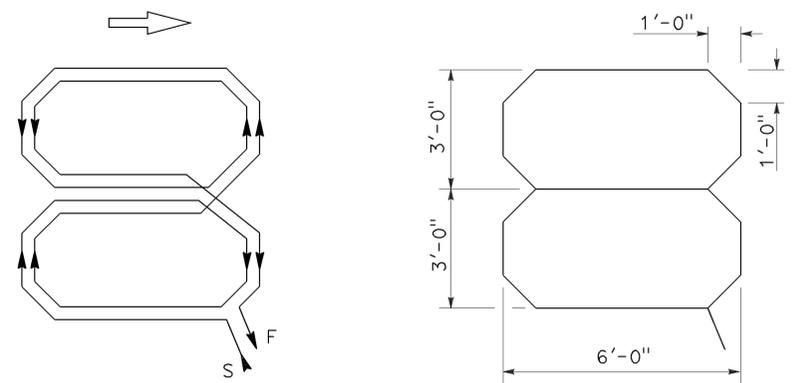
WINDING DETAIL
SAWCUT DETAIL
TYPE C LOOP DETECTOR CONFIGURATION



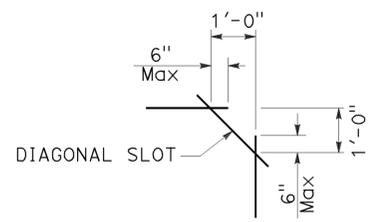
WINDING DETAIL
SAWCUT DETAIL
TYPE D LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE E LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE Q LOOP DETECTOR CONFIGURATION



**PLAN VIEW OF
DIAGONAL SLOT
AT CORNERS**

- NOTES:**
1. Round corners of acute angle sawcuts to prevent damage to conductors.
 2. Typical distance separating loops from edge to edge is 10' for Type A, B, D and E installation in single lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(DETECTORS)**

NO SCALE

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

TO ACCOMPANY PLANS DATED 3-10-14

TABLE 1

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

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

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

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

TABLE 2

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

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

TABLE 3

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

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

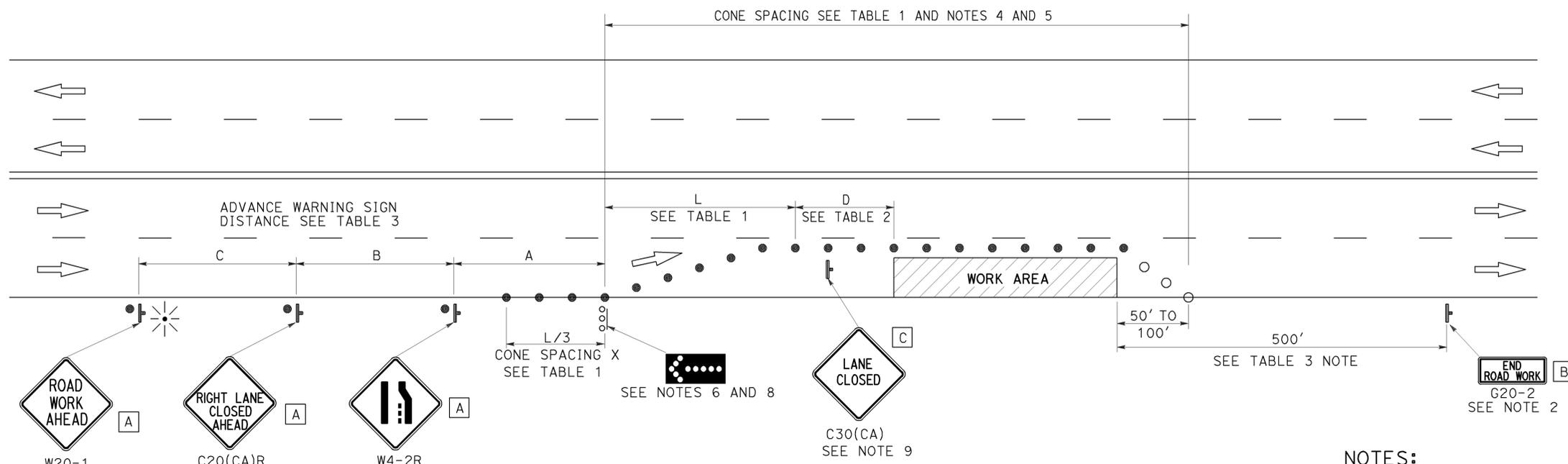
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

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

2010 REVISED STANDARD PLAN RSP T9



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	13	13.2/13.7	42	43

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
 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.

LEGEND

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

SIGN PANEL SIZE (Min)

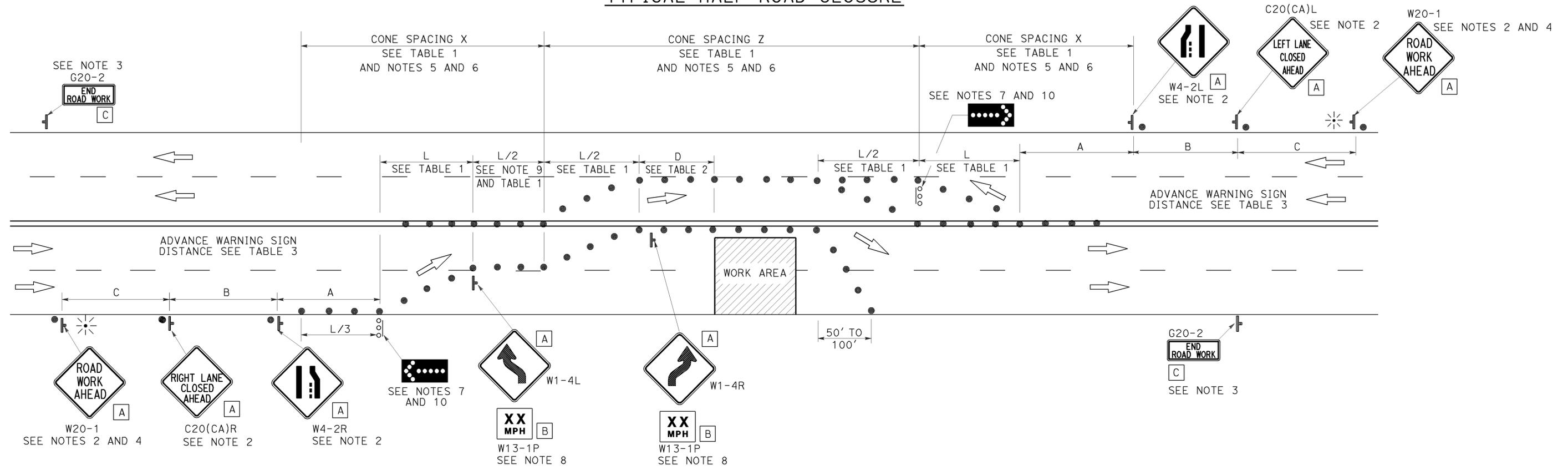
- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

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

NOTES:

See Revised Standard Plan RSP T9 for tables.

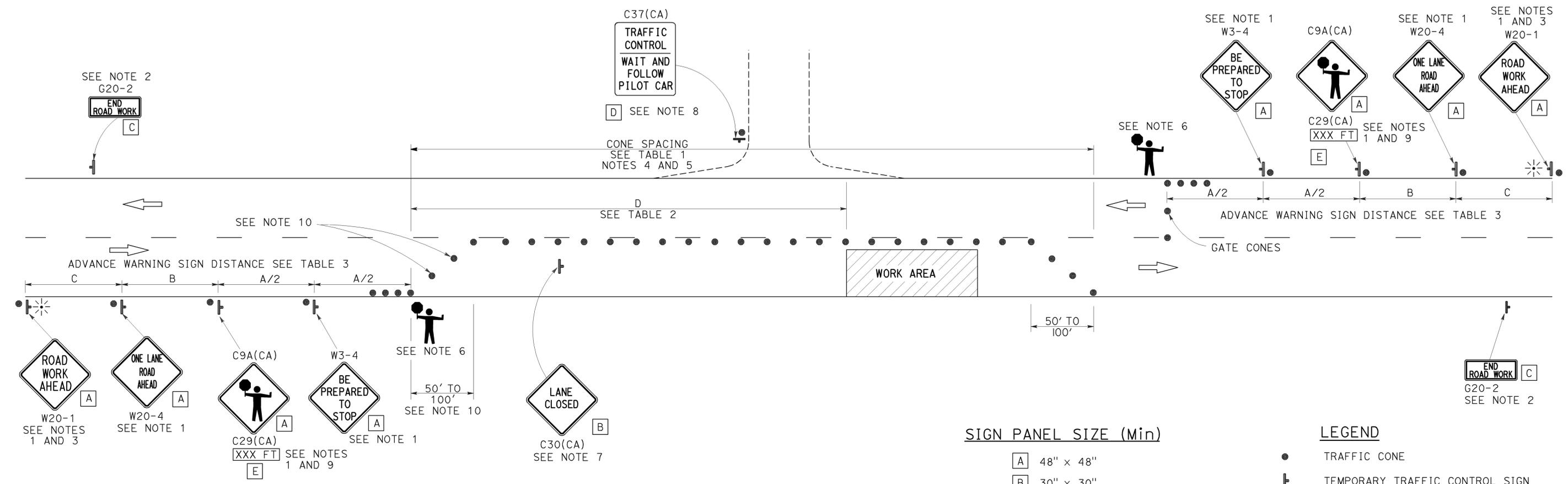
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 3-10-14



NOTES:

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES 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