

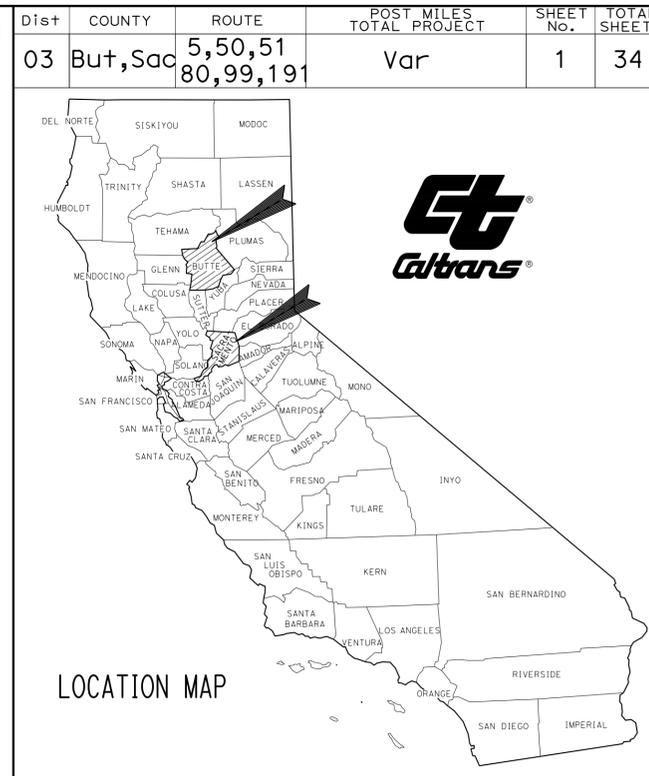
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-9	CONSTRUCTION DETAILS
10-12	CONSTRUCTION AREA SIGNS
13-17	MOTORIST INFORMATION PLANS
18-19	PAVEMENT DELINEATION QUANTITIES
20	SUMMARY OF QUANTITIES
21-34	REVISED STANDARD PLANS

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

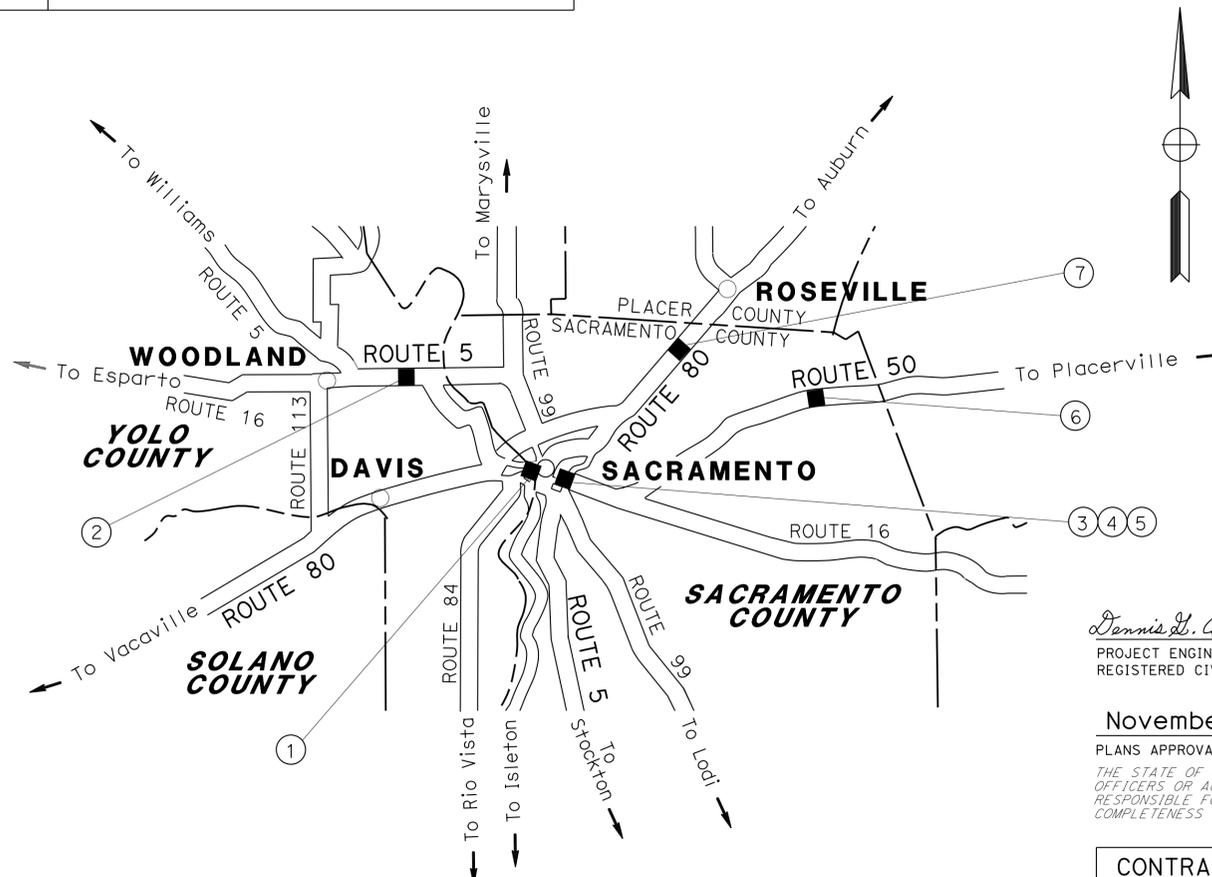
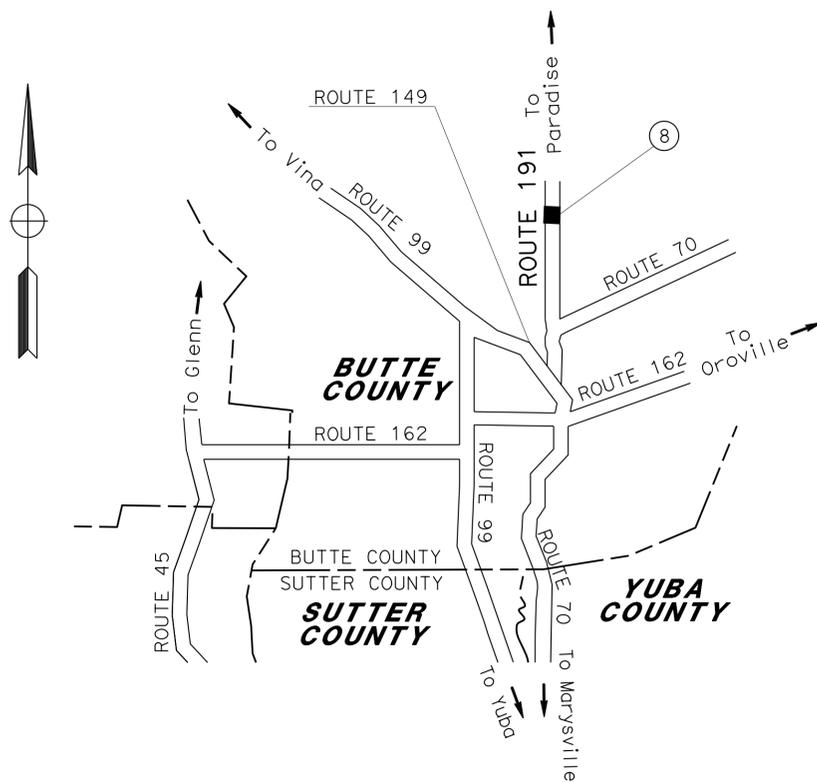
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN BUTTE AND SACRAMENTO COUNTIES
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATIONS OF CONSTRUCTION

No.	COUNTY	ROUTE	PM	DESCRIPTION
①	Sac	5	22.2	CONNECTOR RAMP, Sac-5 (NB) TO Sac-50 (WB)
②	Sac	5	32.6	LOOP ONRAMP, AIRPORT Blvd TO Sac-5 (NB)
③	Sac	50	L2.3	CONNECTOR RAMP, Sac-50 (EB) TO Sac-51 (NB)
④	Sac	99	24.0	CONNECTOR RAMP, Sac-99 (NB) TO Sac-50 (WB)
⑤	Sac	51	0.2	CONNECTOR RAMP, Sac-51 (SB) TO Sac-50 (WB)
⑥	Sac	50	16.8	ON RAMP, FOLSOM Blvd TO Sac-50 (WB)
⑦	Sac	80	12.6	ON RAMP, MADISON Ave (WB) TO Sac-80 (EB)
⑧	But	191	7.1/7.4	NW OF CHICO ON THE WAY TO PARADISE

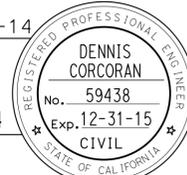


PROJECT MANAGER
MIKE COOK
 DESIGN MANAGER
MIKE HAGEN

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

NO SCALE

Dennis L. Corcoran 11-17-14
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER

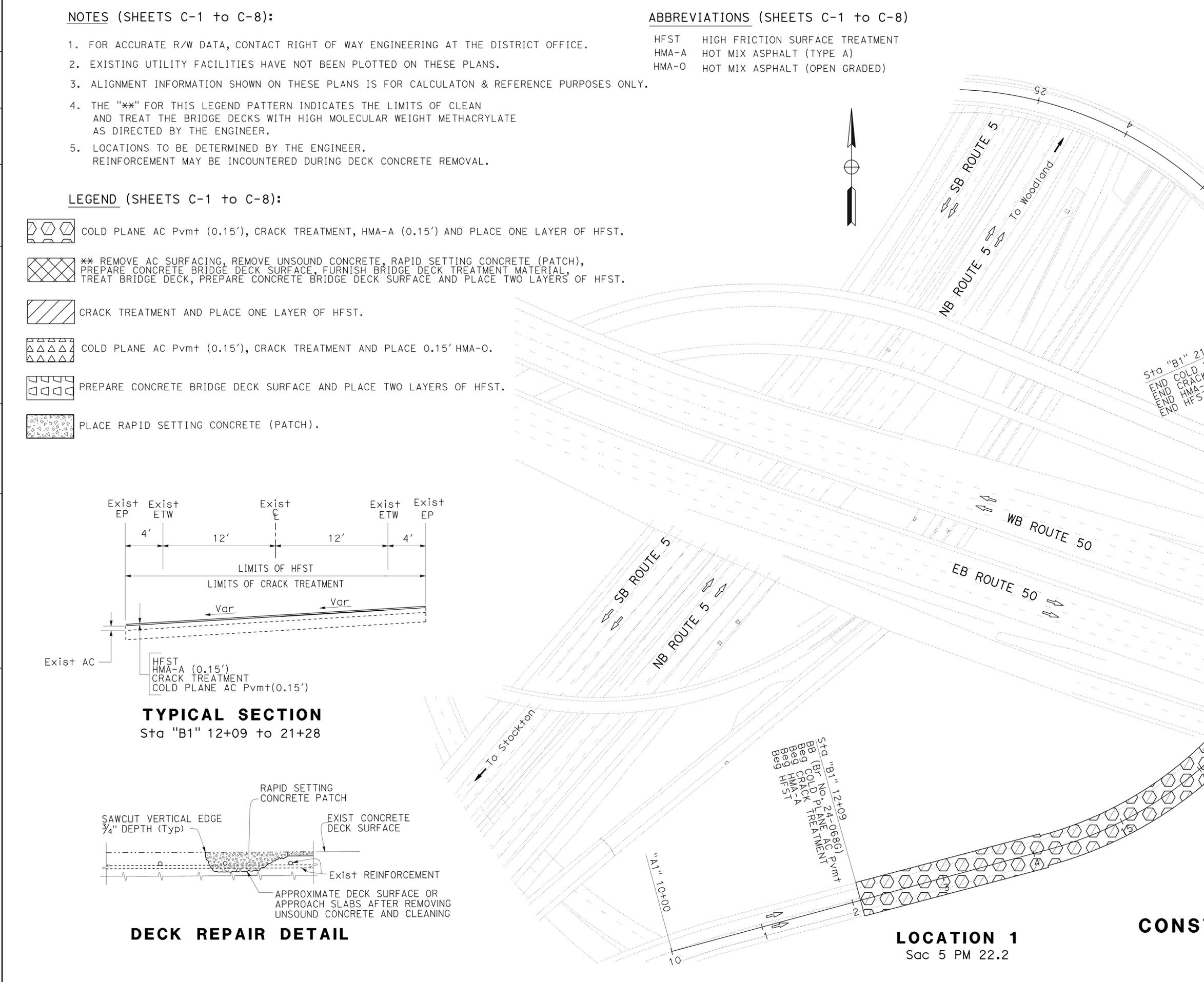


November 17, 2014
 PLANS APPROVAL DATE

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.	03-4F1304
PROJECT ID	0314000040

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: MIKE HAGEN
 TRAFFIC SAFETY



NOTES (SHEETS C-1 to C-8):

- FOR ACCURATE R/W DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- ALIGNMENT INFORMATION SHOWN ON THESE PLANS IS FOR CALCULATION & REFERENCE PURPOSES ONLY.
- THE "*" FOR THIS LEGEND PATTERN INDICATES THE LIMITS OF CLEAN AND TREAT THE BRIDGE DECKS WITH HIGH MOLECULAR WEIGHT METHACRYLATE AS DIRECTED BY THE ENGINEER.
- LOCATIONS TO BE DETERMINED BY THE ENGINEER. REINFORCEMENT MAY BE ENCOUNTERED DURING DECK CONCRETE REMOVAL.

ABBREVIATIONS (SHEETS C-1 to C-8)

- HFST HIGH FRICTION SURFACE TREATMENT
 HMA-A HOT MIX ASPHALT (TYPE A)
 HMA-O HOT MIX ASPHALT (OPEN GRADED)

LEGEND (SHEETS C-1 to C-8):

- COLD PLANE AC Pvm+ (0.15'), CRACK TREATMENT, HMA-A (0.15') AND PLACE ONE LAYER OF HFST.
- ** REMOVE AC SURFACING, REMOVE UNSOUND CONCRETE, RAPID SETTING CONCRETE (PATCH), PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH BRIDGE DECK TREATMENT MATERIAL, TREAT BRIDGE DECK, PREPARE CONCRETE BRIDGE DECK SURFACE AND PLACE TWO LAYERS OF HFST.
- CRACK TREATMENT AND PLACE ONE LAYER OF HFST.
- COLD PLANE AC Pvm+ (0.15'), CRACK TREATMENT AND PLACE 0.15' HMA-O.
- PREPARE CONCRETE BRIDGE DECK SURFACE AND PLACE TWO LAYERS OF HFST.
- PLACE RAPID SETTING CONCRETE (PATCH).

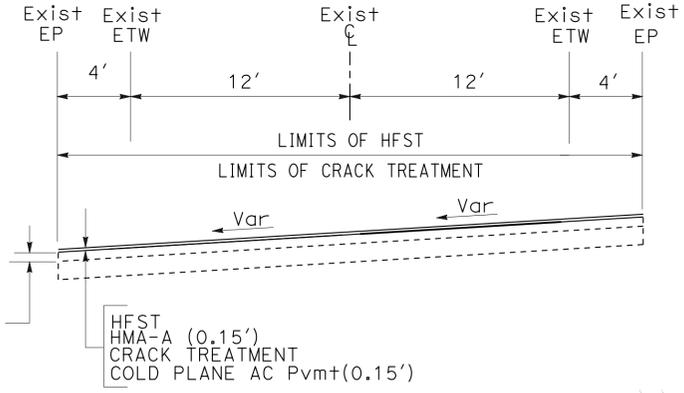
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	2	34

Dennis L. Corcoran 11-17-14
 REGISTERED CIVIL ENGINEER DATE

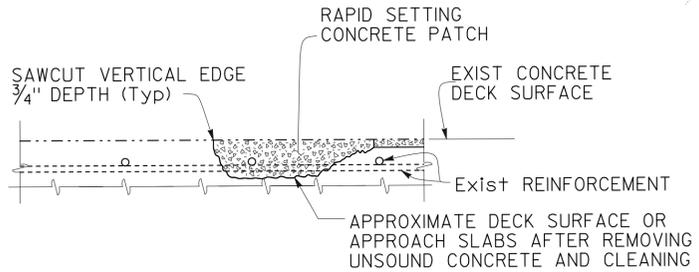
11-17-14
 PLANS APPROVAL DATE

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.

REGISTERED PROFESSIONAL ENGINEER
 DENNIS CORCORAN
 No. 59438
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA



TYPICAL SECTION
 Sta "B1" 12+09 to 21+28



DECK REPAIR DETAIL

Sta "B1" 12+09
 BB (Br No. 24-068G) Pvm+
 Beg COLD PLANE AC
 Beg CRACK
 Beg HMA-A
 Beg HFST

CONSTRUCTION DETAILS

LOCATION 1
 Sac 5 PM 22.2

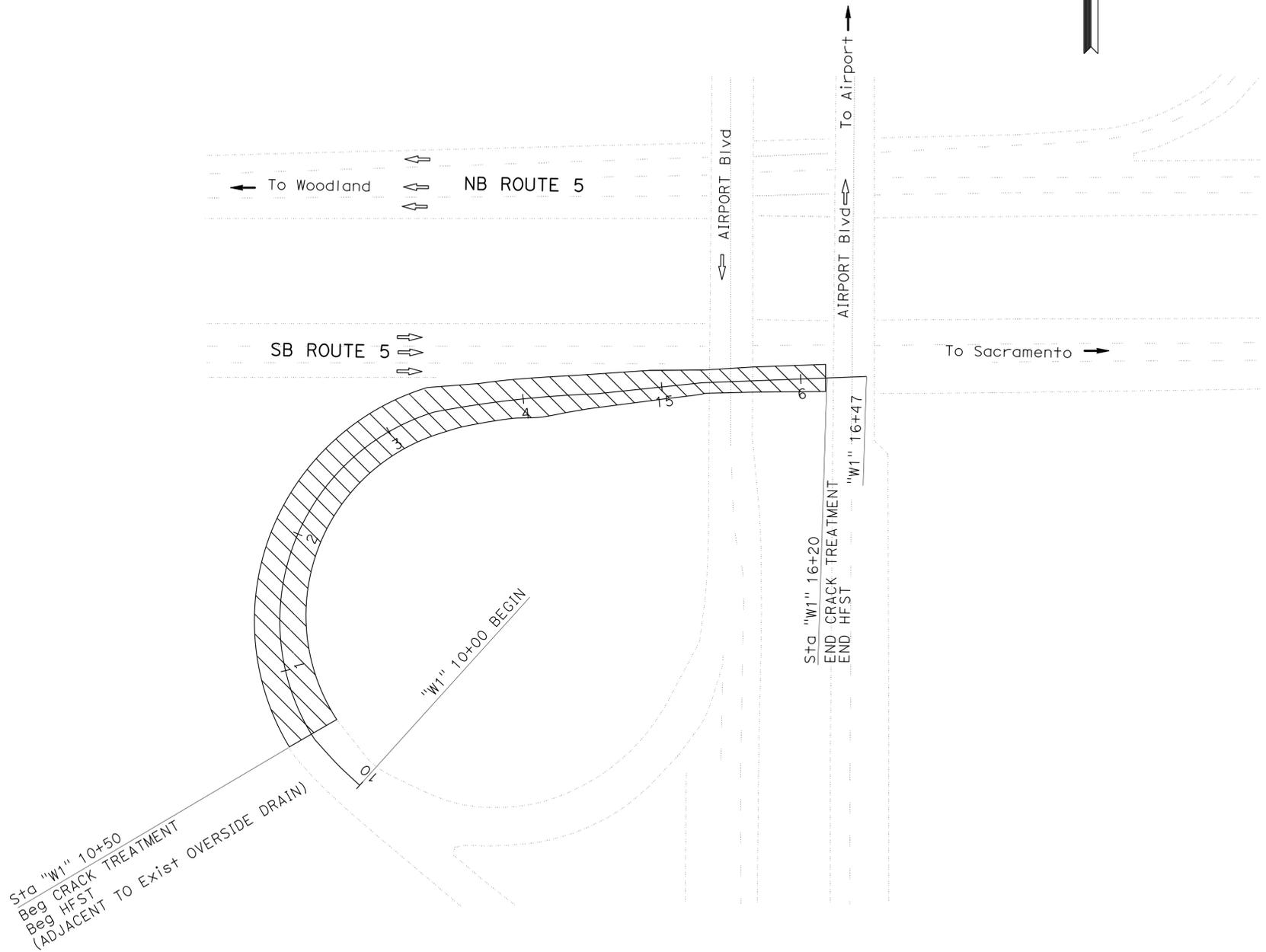
NO SCALE

C-1

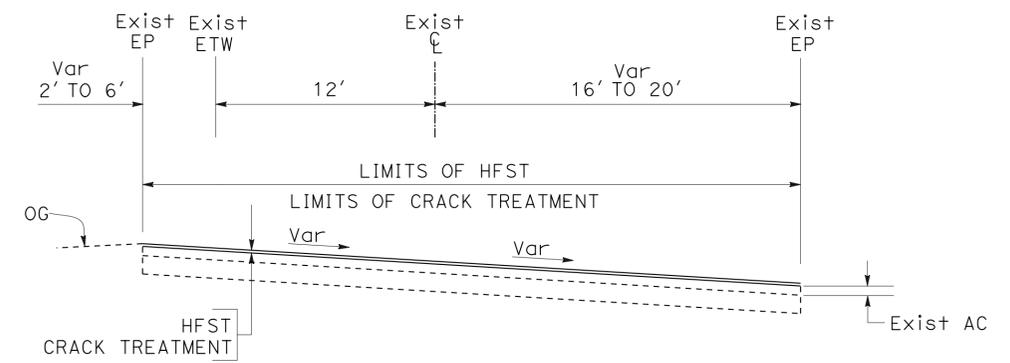
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Sac	5,50,51 80,99,191	Var	3	34
<i>Dennis L. Corcoran</i> 11-17-14 REGISTERED CIVIL ENGINEER DATE					
11-17-14 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	DENNIS CORCORAN	REVISOR BY	DATE
Caltrans	MIKE HAGEN	CHECKED BY	DAVINDER MINHAS	DAVINDER MINHAS	
TRAFFIC SAFETY					



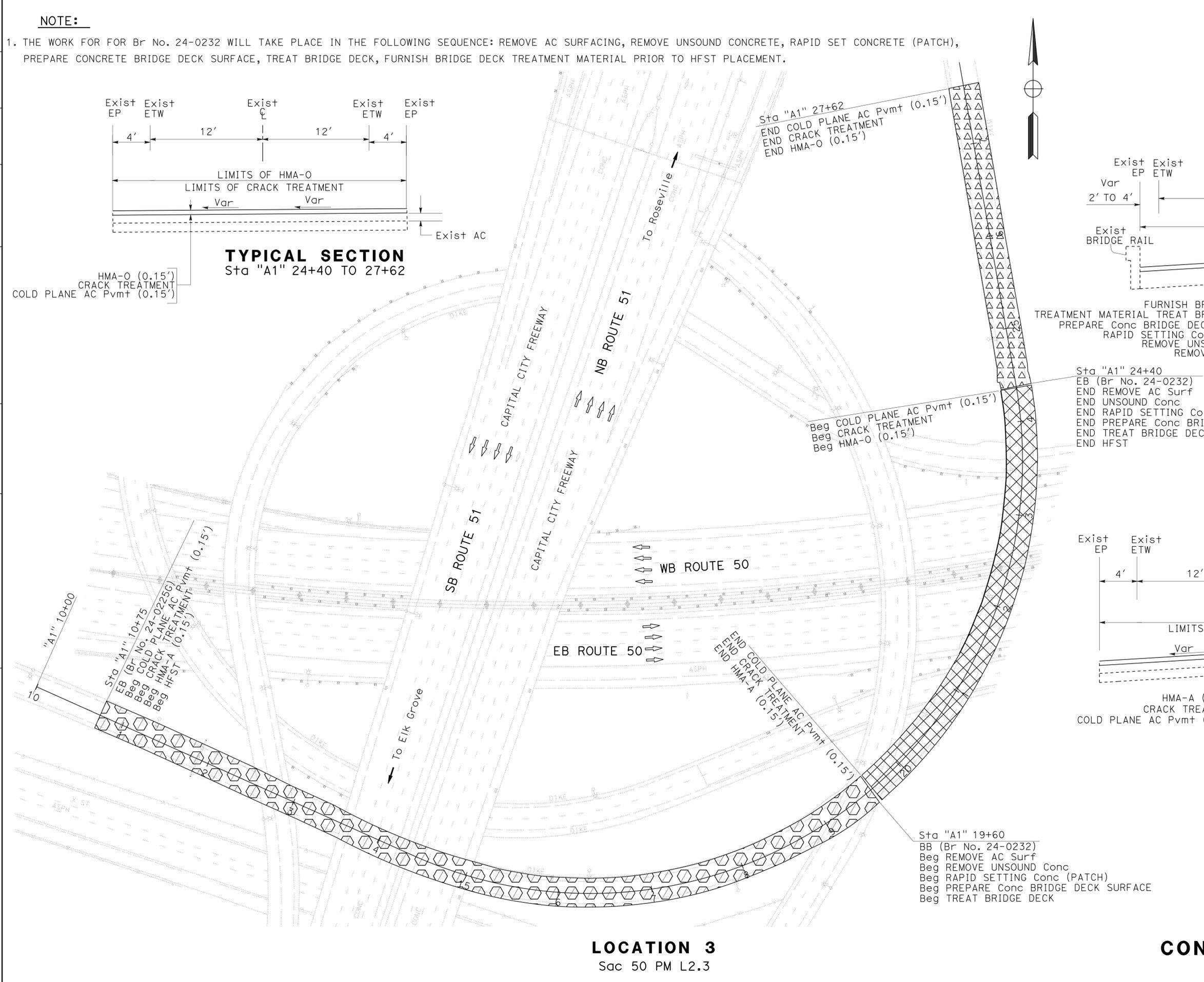
LOCATION 2
Sac 5 PM 32.6



TYPICAL SECTION
Sta "W1" 10+50 TO 16+20

CONSTRUCTION DETAILS
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC SAFETY



NOTE:

1. THE WORK FOR FOR Br No. 24-0232 WILL TAKE PLACE IN THE FOLLOWING SEQUENCE: REMOVE AC SURFACING, REMOVE UNSOUND CONCRETE, RAPID SET CONCRETE (PATCH), PREPARE CONCRETE BRIDGE DECK SURFACE, TREAT BRIDGE DECK, FURNISH BRIDGE DECK TREATMENT MATERIAL PRIOR TO HFST PLACEMENT.

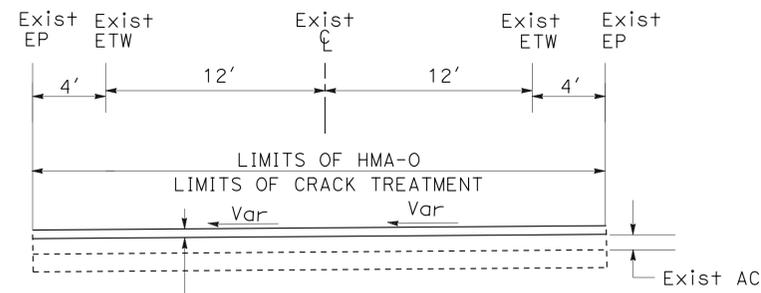
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Sac	5,50,51 80,99,191	Var	4	34

Dennis J. Corcoran 11-17-14
 REGISTERED CIVIL ENGINEER DATE

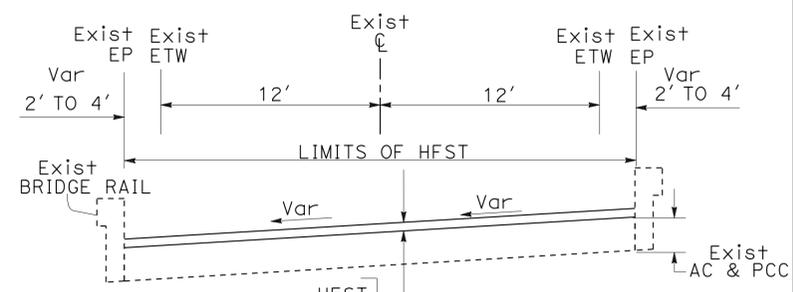
11-17-14
 PLANS APPROVAL DATE

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.

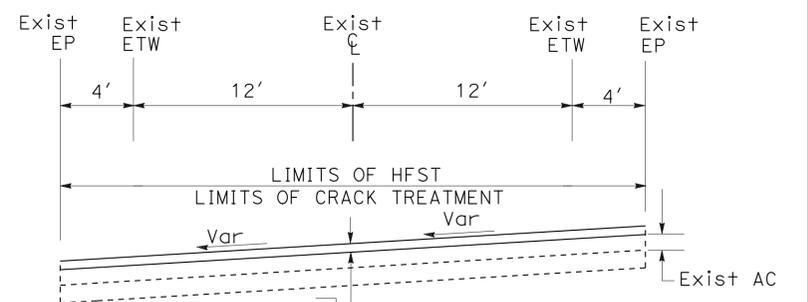
REGISTERED PROFESSIONAL ENGINEER
 DENNIS CORCORAN
 No. 59438
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA



TYPICAL SECTION
 Sta "A1" 24+40 TO 27+62



TYPICAL SECTION
 Sta "A1" 19+60 TO 24+40
 (Br No. 24-0232)



TYPICAL SECTION
 Sta "A1" 10+75 TO 19+60

LOCATION 3
 Sac 50 PM L2.3

CONSTRUCTION DETAILS
 NO SCALE
C-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	5	34

11-17-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 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.



NOTES:

- Br No. 24-0222 HAS HAD A RECENT APPLICATION OF METHACRYLATE; THEREFORE REMOVE AC SURFACING, REMOVE UNSOUND CONCRETE, RAPID SETTING CONCRETE (PATCH), TREAT BRIDGE DECK AND FURNISH BRIDGE DECK MATERIAL ARE NOT REQUIRED.
- PREPARATION OF THE CONCRETE BRIDGE DECK SURFACE WILL STILL BE NEEDED PRIOR TO HFST APPLICATION.

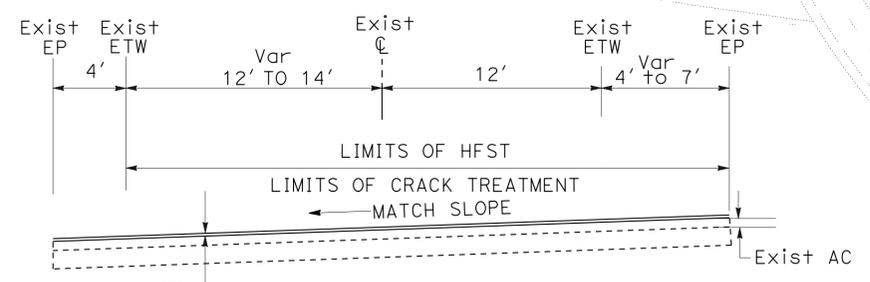
Sta "A2" 28+73
 END COLD PLANE AC Pvm+ (0.15')
 END CRACK TREATMENT
 END HFST
 (PRIOR TO Br No. 24-035)
 END HMA-A (0.15')

Sta "A2" 18+00
 Beg COLD PLANE AC Pvm+ (0.15')
 Beg CRACK TREATMENT
 Beg HMA-A (0.15')

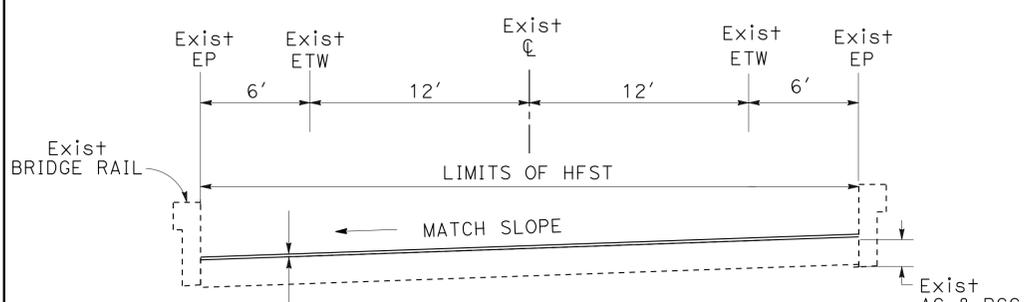
EB (Br No. 24-0222)
 END PREPARE Conc BRIDGE DECK SURFACE

Sta "A2" 10+90
 BB (Br No. 24-0222)
 Beg PREPARE Conc BRIDGE DECK SURFACE
 Beg HFST

"A2" 10+00 Beg



TYPICAL SECTION
 Sta "A2" 18+00 TO 28+73



TYPICAL SECTION
 Sta "A2" 10+90 TO 18+00
 (Br No. 24-0222)

LOCATION 4
 Sac 99 PM 24.0

CONSTRUCTION DETAILS
 NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	MIKE HAGEN	DENNIS CORCORAN	11-17-14
	TRAFFIC SAFETY	DAVINDER MINHAS	
	CALCULATED/DESIGNED BY	CHECKED BY	

USERNAME => s130875
 DGN FILE => 0314000040ga004.dgn



UNIT 0391

PROJECT NUMBER & PHASE

03140000401

LAST REVISION DATE PLOTTED => 22-DEC-2014
 09-24-14 TIME PLOTTED => 13:43

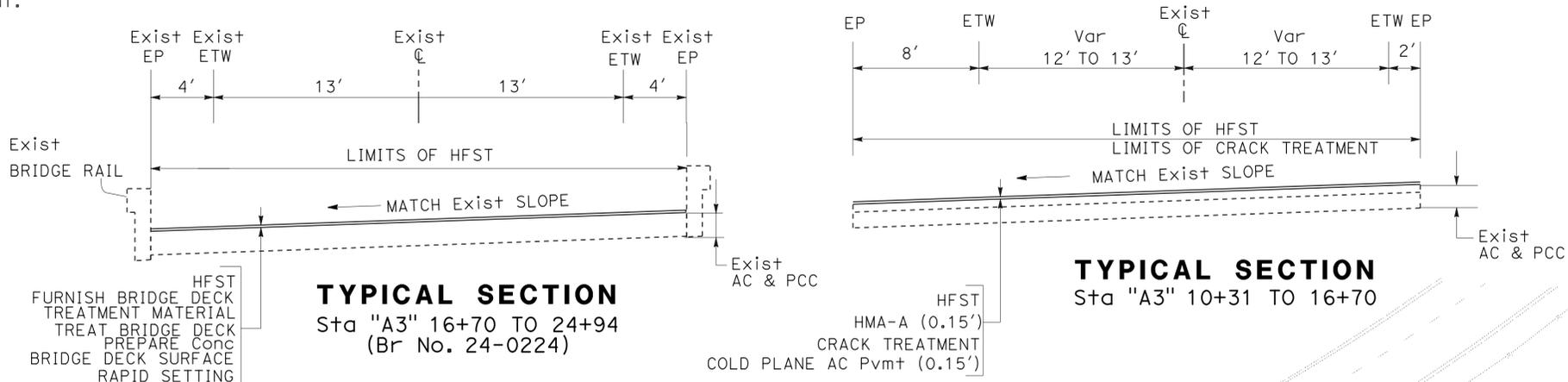
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Sac	5,50,51 80,99,191	Var	6	34

11-17-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 PLANS APPROVAL DATE

DENNIS CORCORAN
 No. 59438
 Exp. 12-31-15
 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.

NOTE:
 1. THE WORK FOR FOR Br No. 24-0224 WILL TAKE PLACE IN THE FOLLOWING SEQUENCE: REMOVE AC SURFACING, REMOVE UNSOUND CONCRETE, RAPID SET CONCRETE (PATCH), PREPARE CONCRETE BRIDGE DECK SURFACE, TREAT BRIDGE DECK, FURNISH BRIDGE DECK TREATMENT MATERIAL PRIOR TO HFST PLACEMENT.



Sta "A3" 24+94
 BB (Br No. 24-0224)
 END REMOVE AC Surf
 END REMOVE UNSOUND Conc
 END RAPID SETTING Conc
 END BRIDGE DECK SURFACE
 END TREAT BRIDGE DECK
 END FURNISH BRIDGE DECK
 END TREATMENT MATERIAL
 END HFST

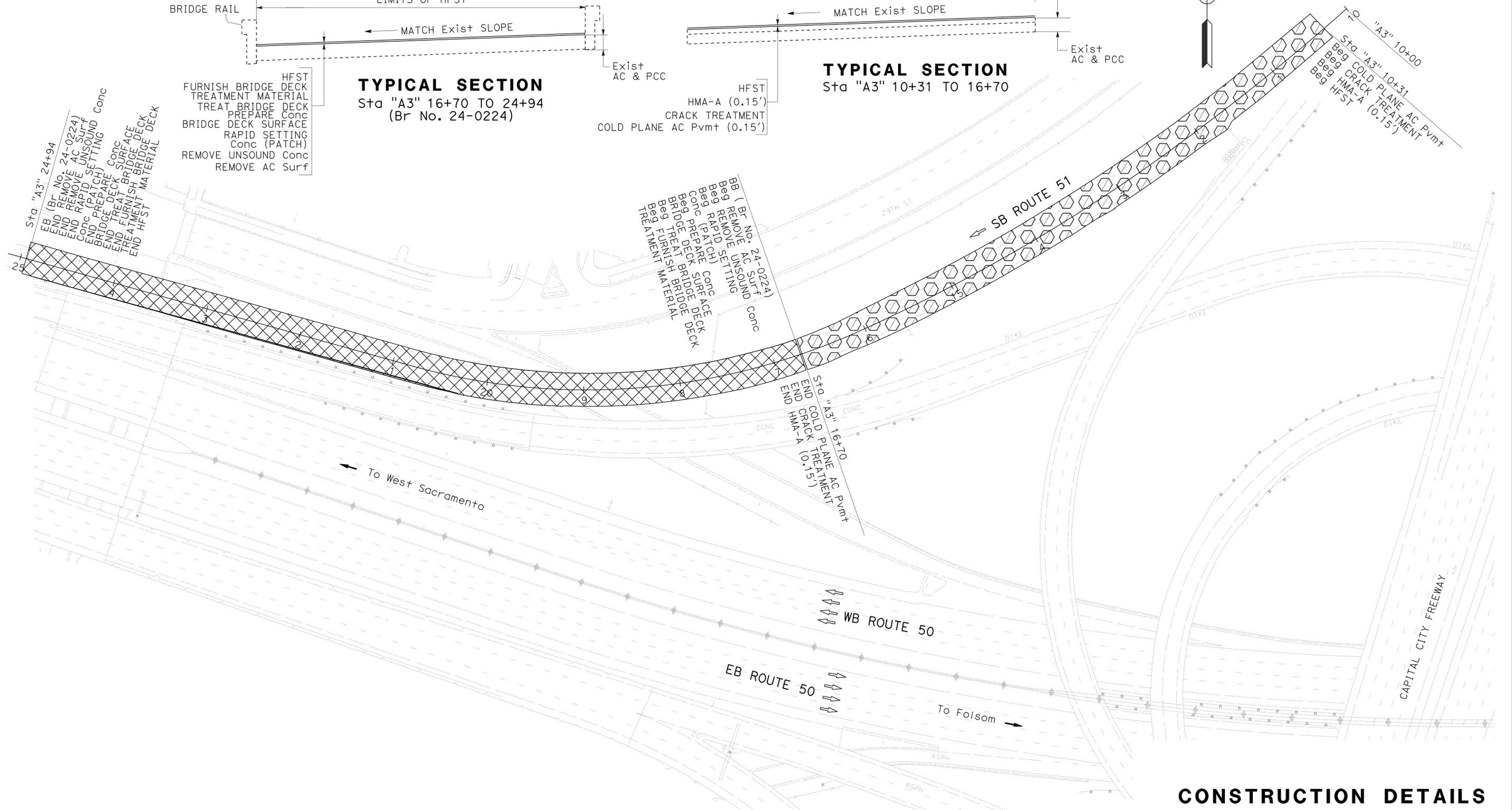
HFST
 FURNISH BRIDGE DECK
 TREATMENT MATERIAL
 TREAT BRIDGE DECK
 PREPARE Conc
 BRIDGE DECK SURFACE
 RAPID SETTING
 Conc (PATCH)
 REMOVE UNSOUND Conc
 REMOVE AC Surf

TYPICAL SECTION
 Sta "A3" 16+70 TO 24+94
 (Br No. 24-0224)

HFST
 HMA-A (0.15')
 CRACK TREATMENT
 COLD PLANE AC Pvmf (0.15')

TYPICAL SECTION
 Sta "A3" 10+31 TO 16+70

BB (Br No. 24-0224)
 Beg REMOVE AC Surf
 Beg REMOVE UNSOUND Conc
 Beg RAPID SETTING Conc
 Beg (PATCH) Conc
 Beg PREPARE SURF ACE
 Beg BRIDGE DECK SURFACE
 Beg BRIDGE DECK SURFACE
 Beg TREAT BRIDGE DECK
 Beg FURNISH BRIDGE
 Beg TREATMENT MATERIAL



LOCATION 5
 SAC 51 PM 0.2

CONSTRUCTION DETAILS
 NO SCALE

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans	MIKE HAGEN	DENNIS CORCORAN	DAVINDER MINHAS
TRAFFIC SAFETY	CHECKED BY	DATE	REVISION

USERNAME => s130875
 DGN FILE => 0314000040ga005.dgn

RELATIVE BORDER SCALE
 1" = 15' IN INCHES

UNIT 0391

PROJECT NUMBER & PHASE

03140000401

BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 22-DEC-2014
 09-24-14 TIME PLOTTED => 13:43

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC SAFETY
 FUNCTIONAL SUPERVISOR MIKE HAGEN
 CALCULATED/DESIGNED BY CHECKED BY
 DENNIS CORCORAN DAVINDER MINHAS
 REVISED BY DATE REVISED

NOTE:
 1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

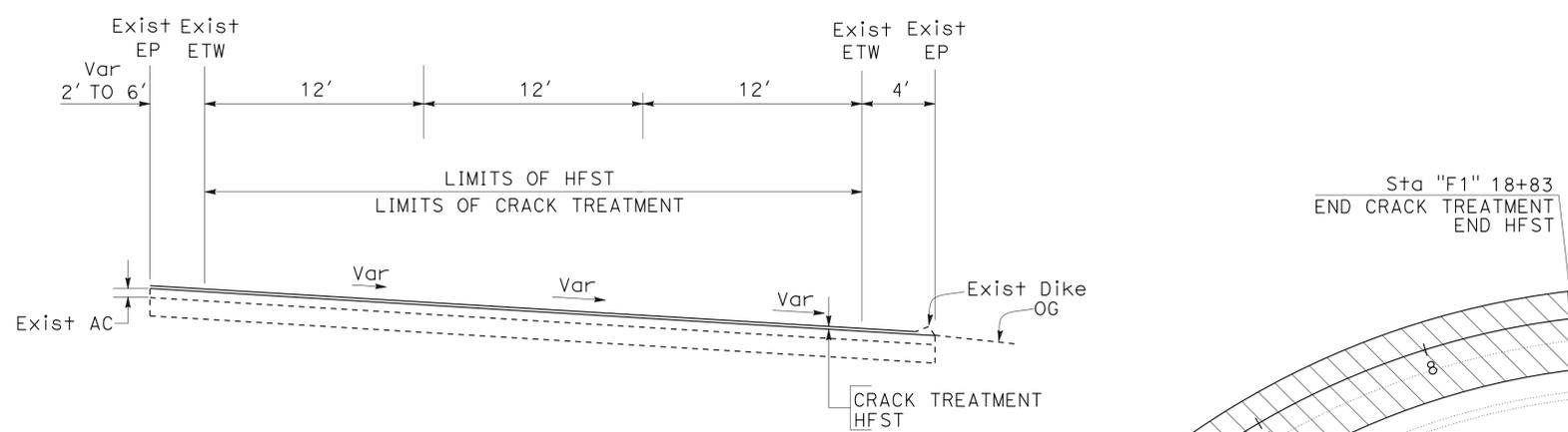
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Sac	5,50,51 80,99,191	Var	7	34

Dennis L. Corcoran 11-17-14
 REGISTERED CIVIL ENGINEER DATE

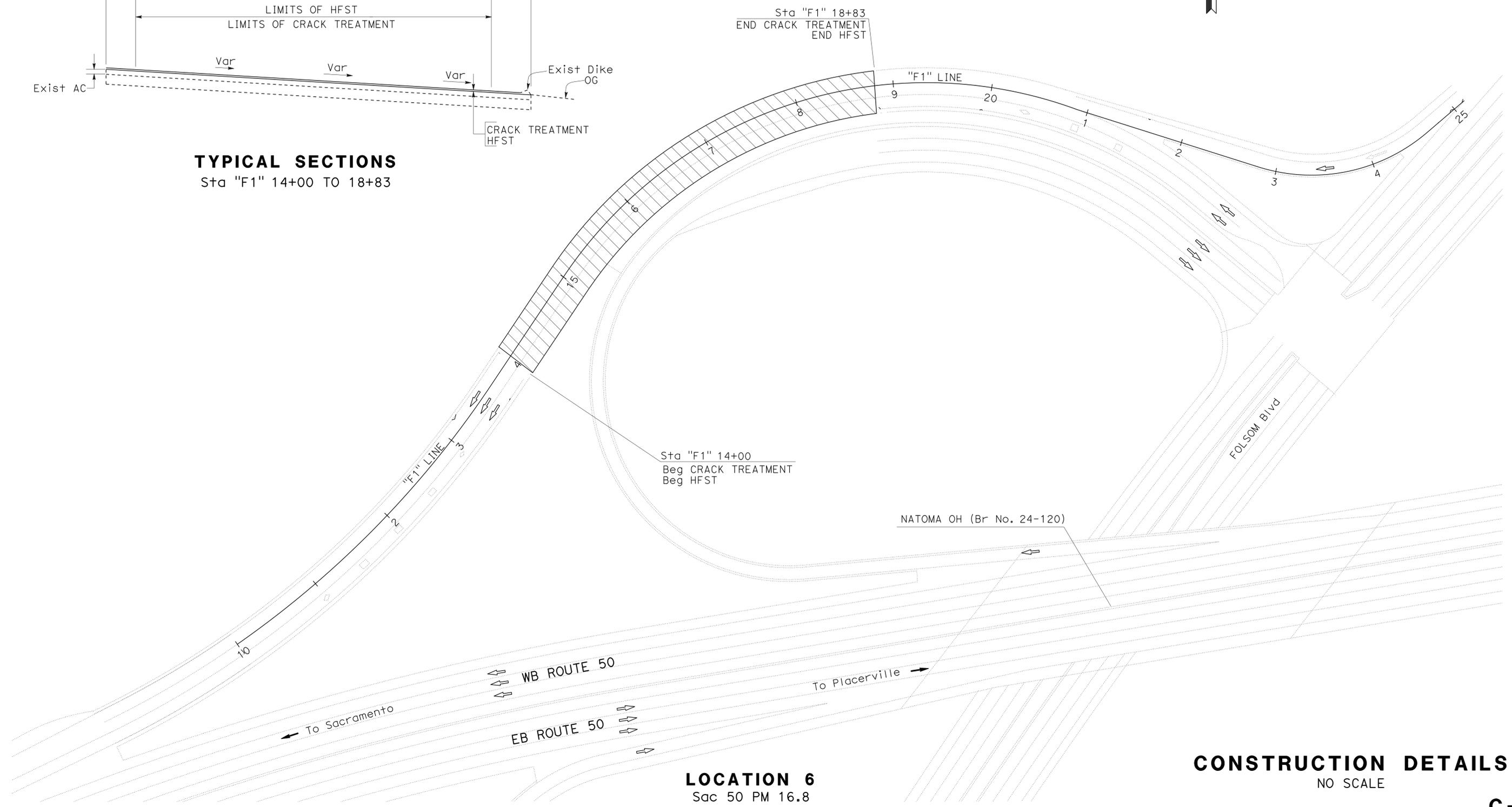
11-17-14
 PLANS APPROVAL DATE

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.

REGISTERED PROFESSIONAL ENGINEER
 DENNIS CORCORAN
 No. 59438
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA



TYPICAL SECTIONS
 Sta "F1" 14+00 TO 18+83



LOCATION 6
 Sac 50 PM 16.8

CONSTRUCTION DETAILS
 NO SCALE

C-6

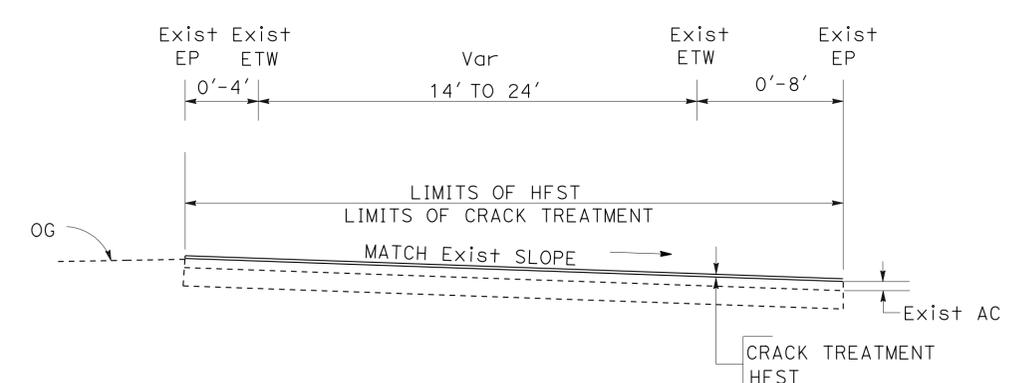
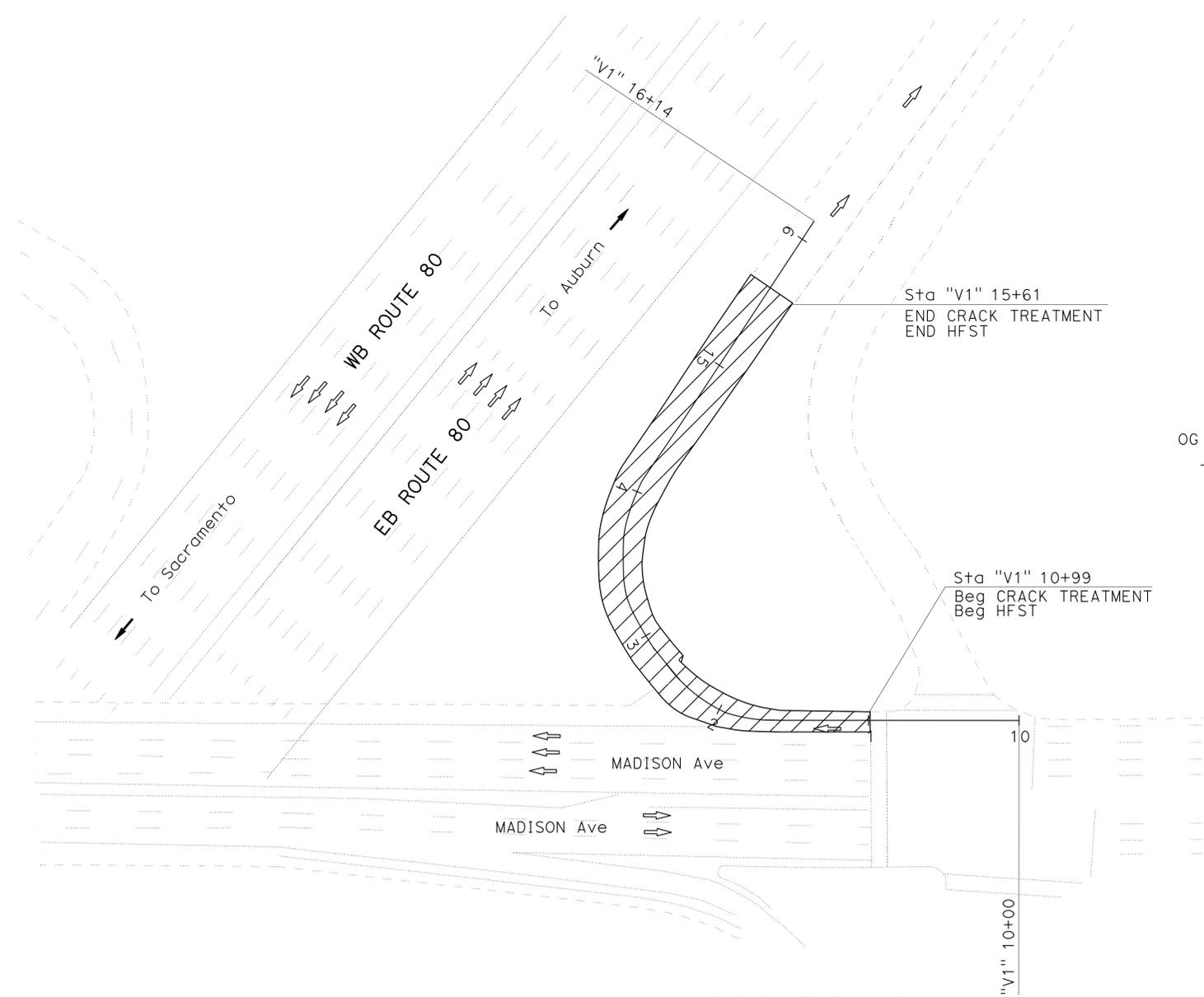
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	8	34

Dennis L. Corcoran 11-17-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DENNIS CORCORAN
 No. 59438
 Exp. 12-31-15
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	DENNIS CORCORAN	REVISED BY
Caltrans	MIKE HAGEN	CHECKED BY	DAVINDER MINHAS	DATE REVISED
TRAFFIC SAFETY				



TYPICAL SECTION
Sta "V1" 10+99 TO 15+61

CONSTRUCTION DETAILS
NO SCALE

C-7

LOCATION 7
Sac 80 PM 12.6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	9	34

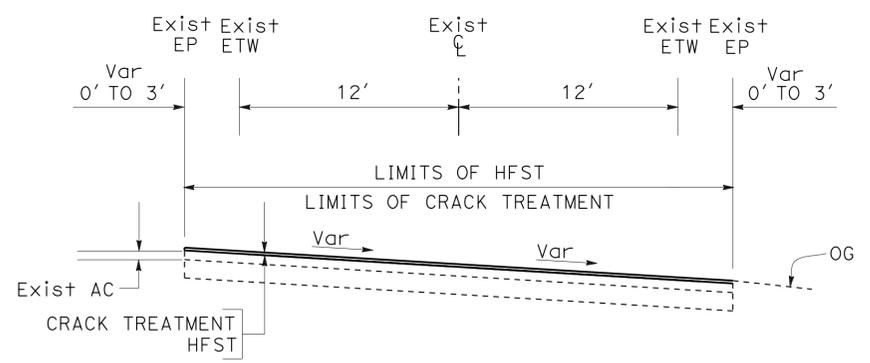
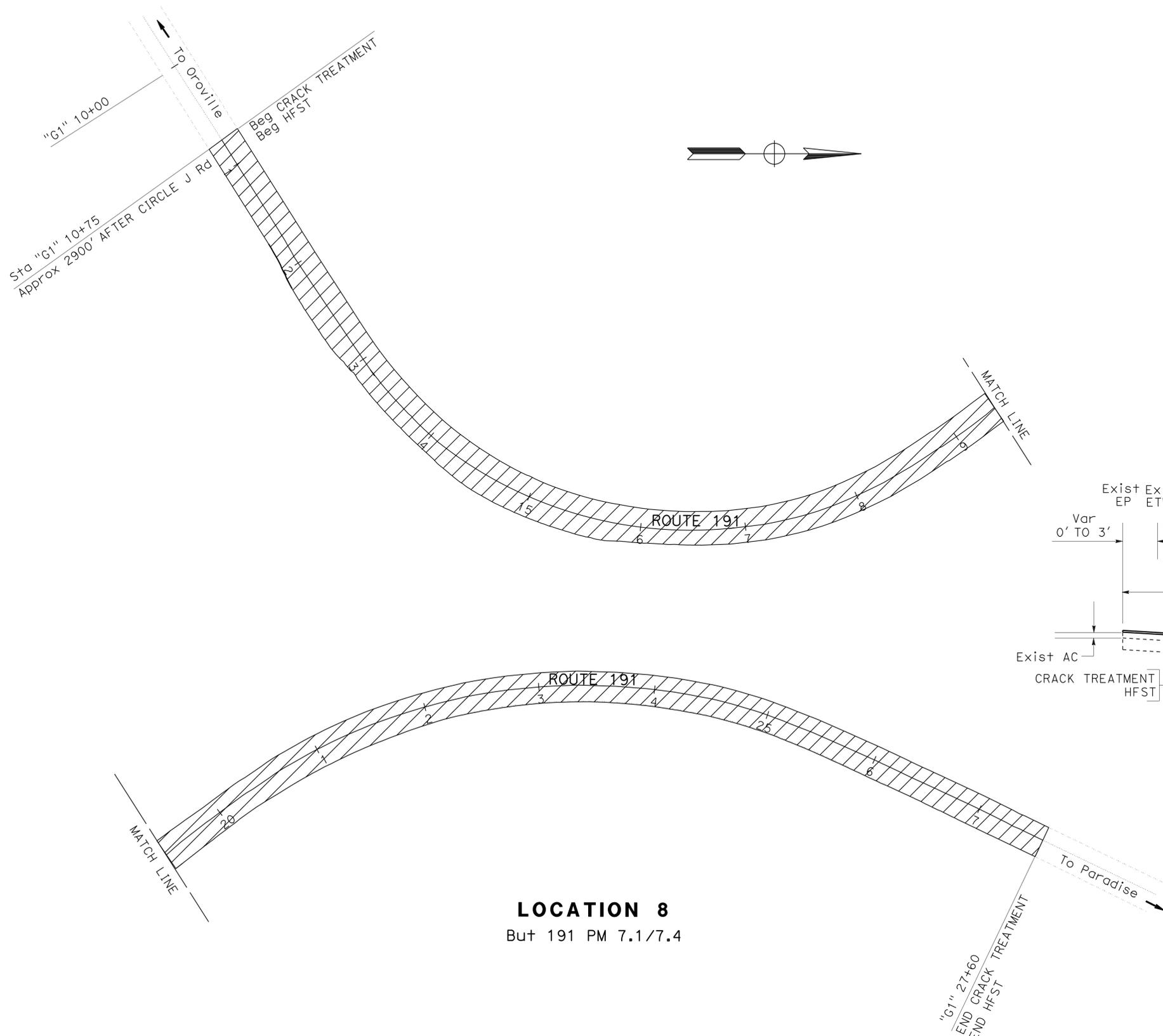
<i>Dennis L. Corcoran</i>	11-17-14
REGISTERED CIVIL ENGINEER	DATE
11-17-14	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
DENNIS CORCORAN
No. 59438
Exp. 12-31-15
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.

NOTE:

1. IF ANY DRIVEWAYS ARE ENCOUNTERED WITHIN THE PROJECT LIMITS THEY ARE NOT TO BE PAVED.



TYPICAL SECTION
Sta "G1" 10+75 TO 27+60

CONSTRUCTION DETAILS
NO SCALE

C-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	TRAFFIC SAFETY
FUNCTIONAL SUPERVISOR	MIKE HAGEN
CALCULATED-DESIGNED BY	CHECKED BY
DENNIS CORCORAN	DAVINDER MINHAS
REVISOR	DATE
REVISOR	DATE

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51, 80,99,191	Var	10	34

Kris M. Albers 11-17-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 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.

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
 No. 49986
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

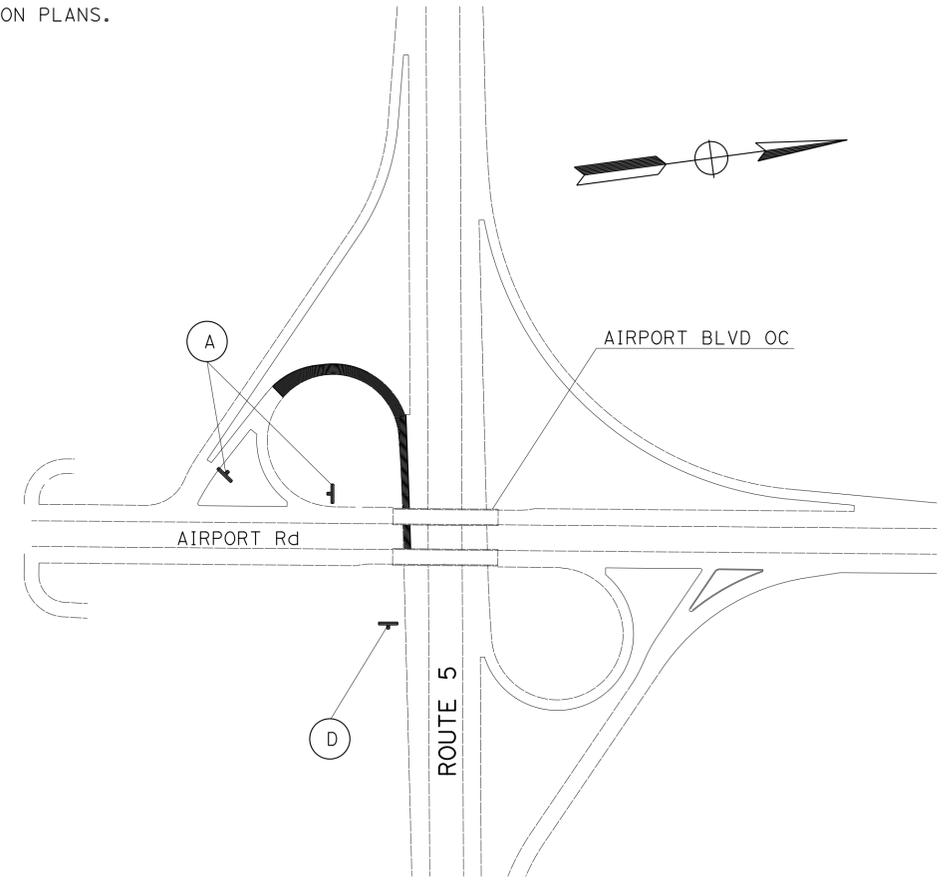
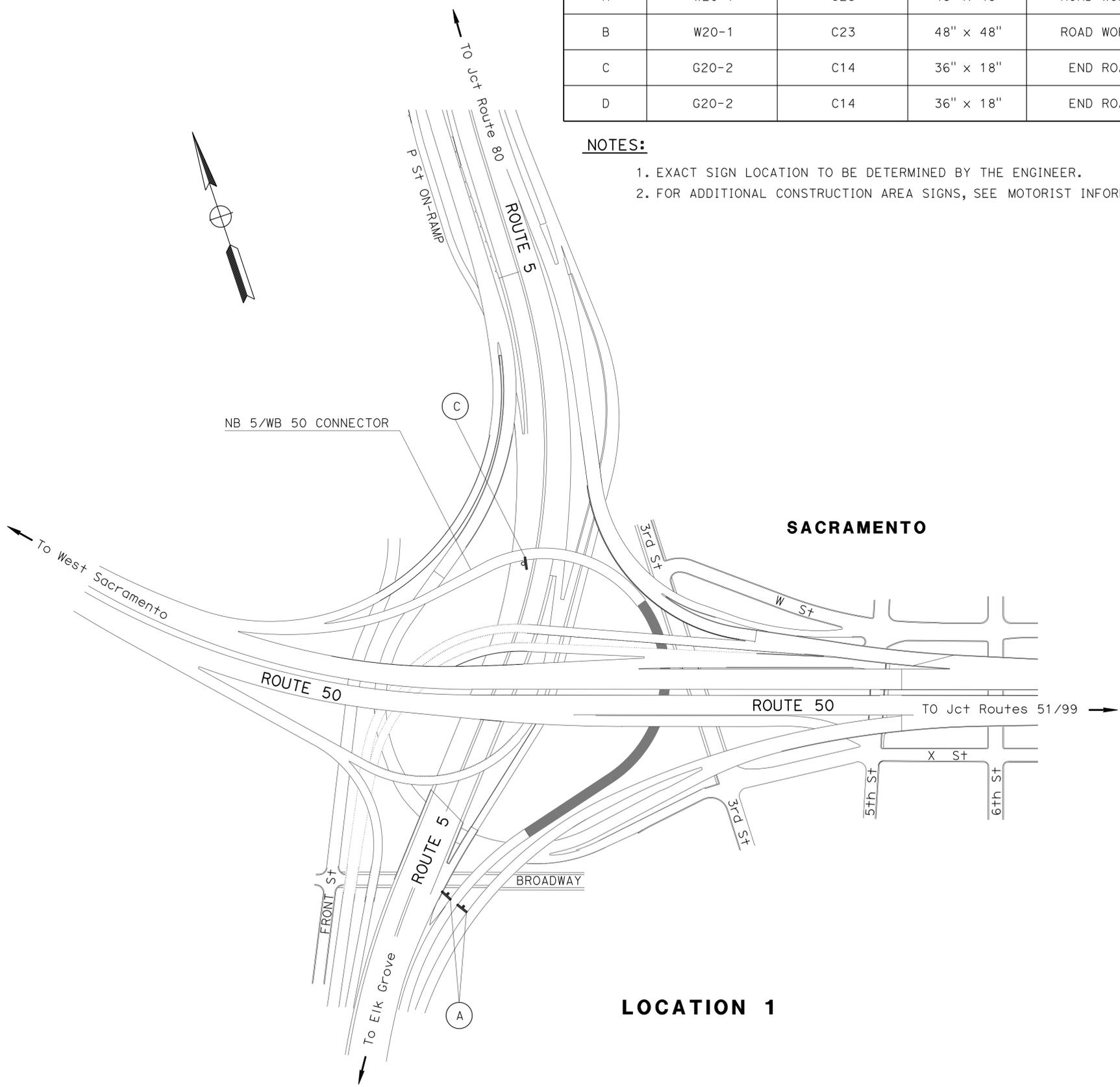
SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	10
B	W20-1	C23	48" x 48"	ROAD WORK AHEAD	SSBM	2
C	G20-2	C14	36" x 18"	END ROAD WORK	SSBM	4
D	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 6"	8

LEGEND

(X) CONSTRUCTION AREA SIGN LETTER

- NOTES:**
- EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
 - FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE MOTORIST INFORMATION PLANS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 CALCULATED/DESIGNED BY: CHUCK COOK
 CHECKED BY: KRIS ALBERS
 REVISED BY: CHUCK COOK
 DATE REVISED:



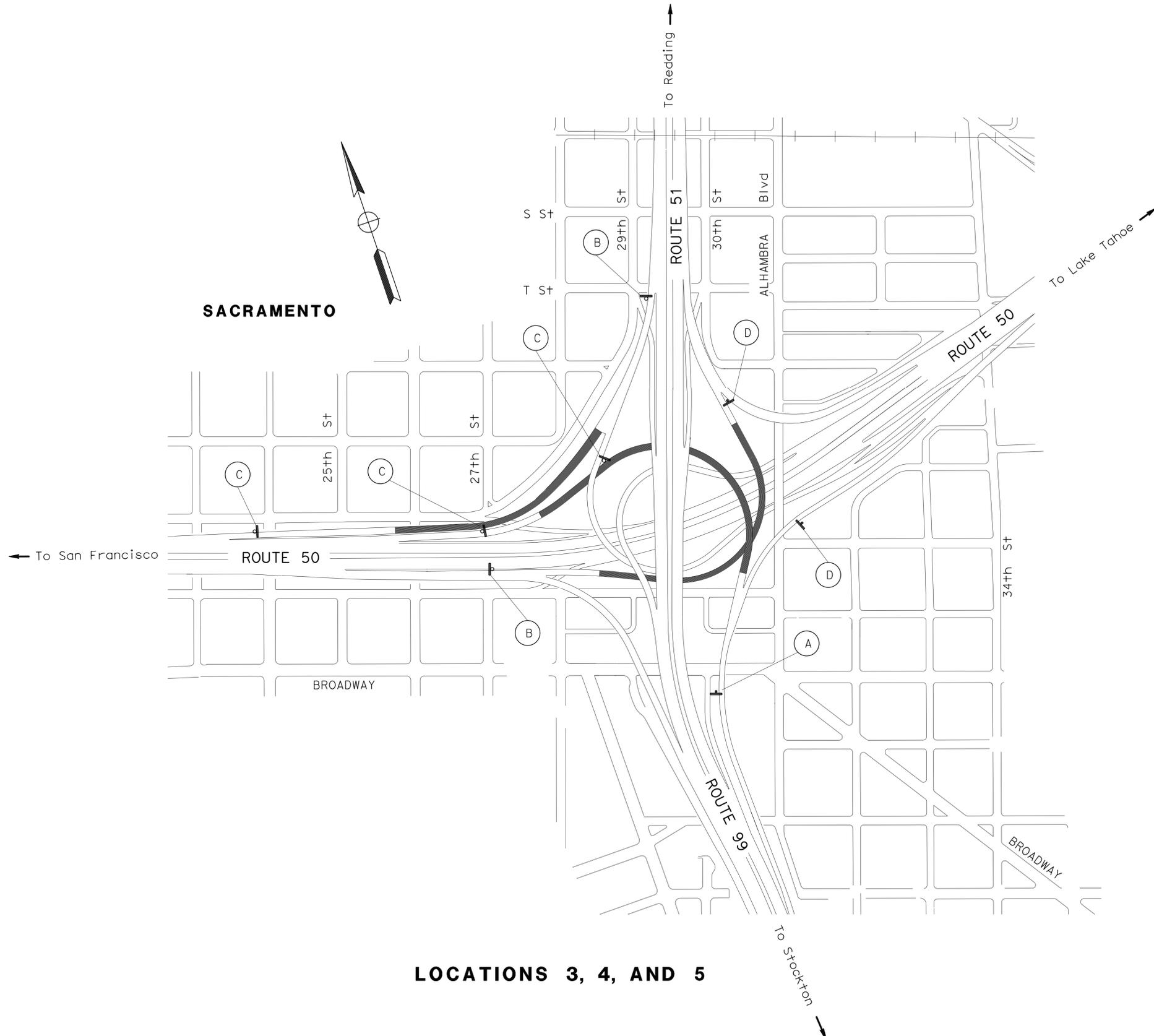
LOCATION 2

CONSTRUCTION AREA SIGNS
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans	FUNCTIONAL SUPERVISOR	CHUCK COOK	REVISOR	
	TRAFFIC	CHUCK COOK	REVISOR	
	DESIGNED BY	CHUCK COOK	DATE	
	CHECKED BY	KRIS ALBERS	DATE	
	DESIGNED BY	KRIS ALBERS	DATE	
	CHECKED BY	KRIS ALBERS	DATE	
	DESIGNED BY	KRIS ALBERS	DATE	
	CHECKED BY	KRIS ALBERS	DATE	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51,80,99,191	Var	11	34
<i>Kris M. Albers</i> 11-17-14 REGISTERED CIVIL ENGINEER DATE					
11-17-14 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>					



LOCATIONS 3, 4, AND 5

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

SIGN CODE		PANEL SIZE	NUMBER OF SIGNS
FEDERAL	CALIFORNIA		
M4-8		24" X 12"	6
M3-4 *	G50	24" X 12"	6
M1-2(80)		24" X 24"	6
M4-10L		48" X 18"	2
	G44 *	21" X 15"	2
	G43 *	21" X 15"	2
M4-8a		24" X 18"	1

* PANELS ARE WHITE ON GREEN BACKGROUND

NOTES:

1. EXACT SIGN LOCATIONS, INCLUDING PCMS SIGNS, TO BE DETERMINED BY THE ENGINEER.
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3. NUMBER OF SIGN PANELS REQUIRED PER DETOUR SHOWN DOES NOT INCLUDE SIGNS SHOWN ON STANDARD PLANS.
4. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE CONSTRUCTION AREA SIGN PLANS.

PORTABLE CHANGEABLE MESSAGE SIGN

LOCATION	FACING DIRECTION	EACH
Rte 5 NORTH OF SUTTERVILLE Rd	NB	1
Rte 50 BETWEEN 9th AND 10th St	EB	1
SHEET TOTAL		2

TRAFFIC DETOUR PLAN:

1. CLOSE NB ROUTE 5 CONNECTOR TO WB ROUTE 50
2. TAKE ROUTE 50 EB OFF RAMP TO 15th STREET
3. TAKE LEFT TURN ON 16th STREET
4. TAKE 15th STREET ON RAMP TO WB ROUTE 50

LEGEND

- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 <CA> CALIFORNIA SIGN CODE

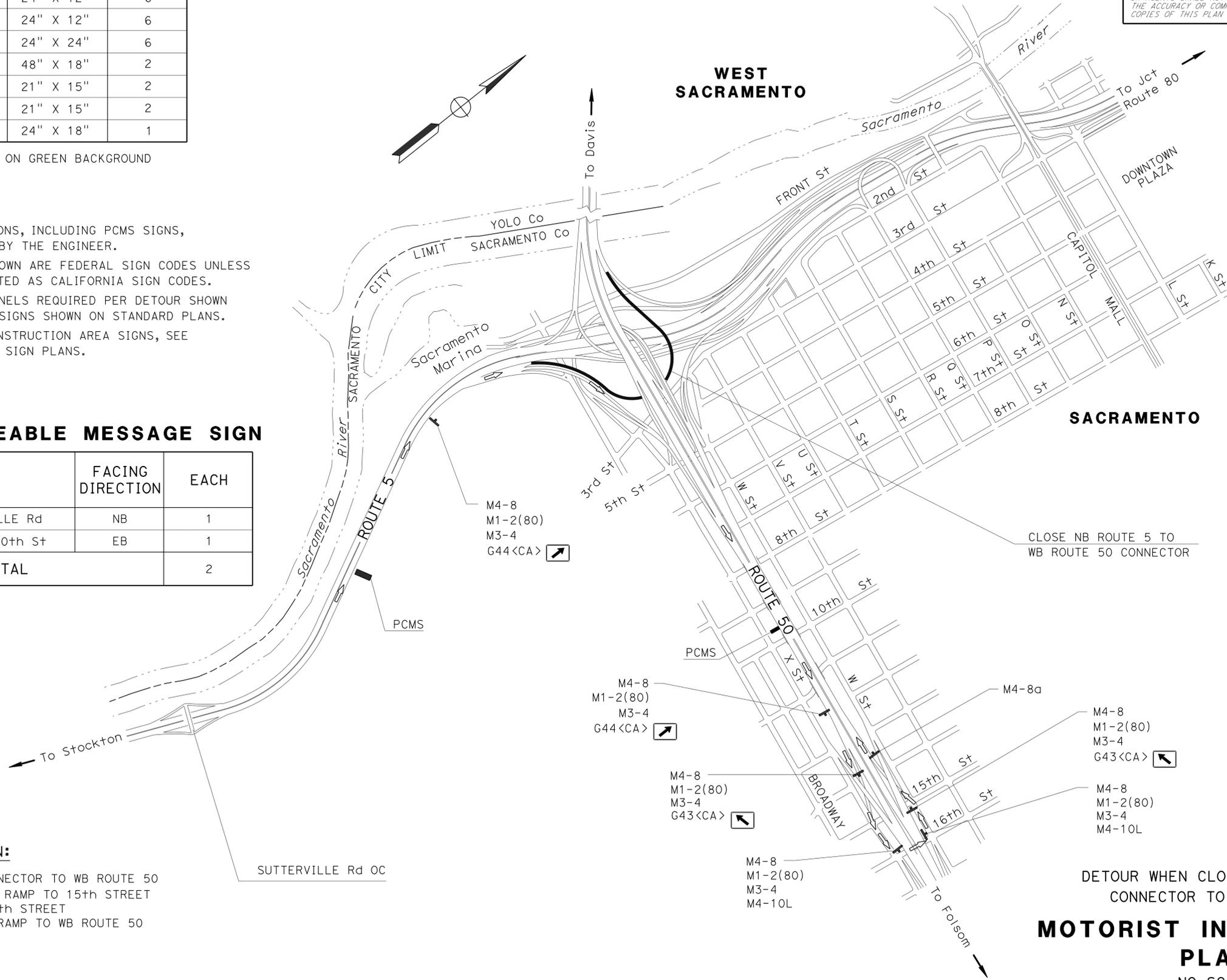
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51, 80,99,191	Var	13	34

Kris M. Albers 11-17-14
 REGISTERED CIVIL ENGINEER DATE

11-17-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
 No. 49986
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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DETOUR WHEN CLOSING NB ROUTE 5
CONNECTOR TO WB ROUTE 50

MOTORIST INFORMATION PLAN

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MI-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 CALCULATED/DESIGNED BY: CHUCK COOK
 CHECKED BY: KRIS ALBERS
 REVISED BY: CHUCK COOK
 DATE REVISED: KRIS ALBERS

LEGEND

PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 <CA> CALIFORNIA SIGN CODE

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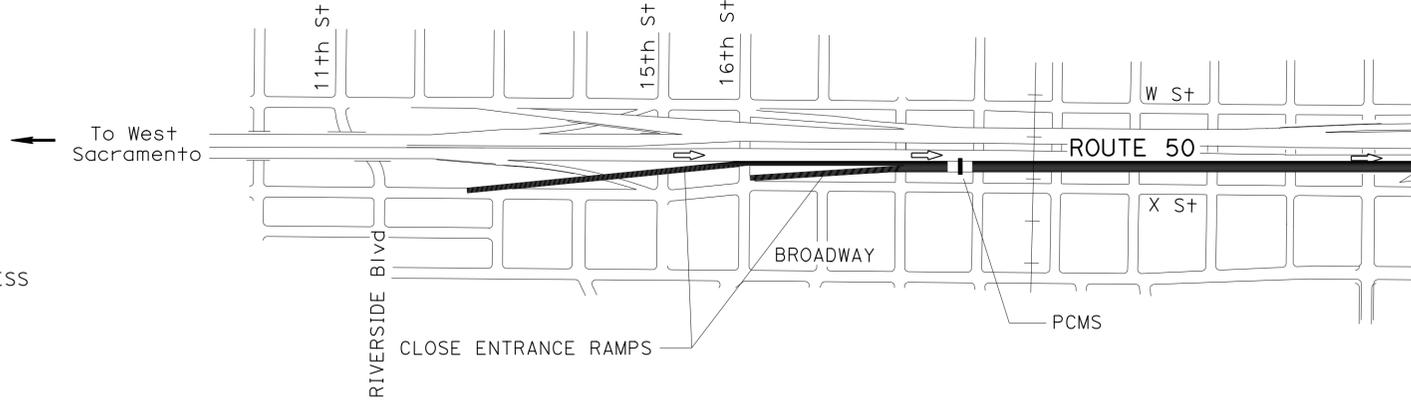
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Sac	5,50,51,80,99,191	Var	14	34

Kris M. Albers 11-17-14
 REGISTERED CIVIL ENGINEER DATE

11-17-14
 PLANS APPROVAL DATE

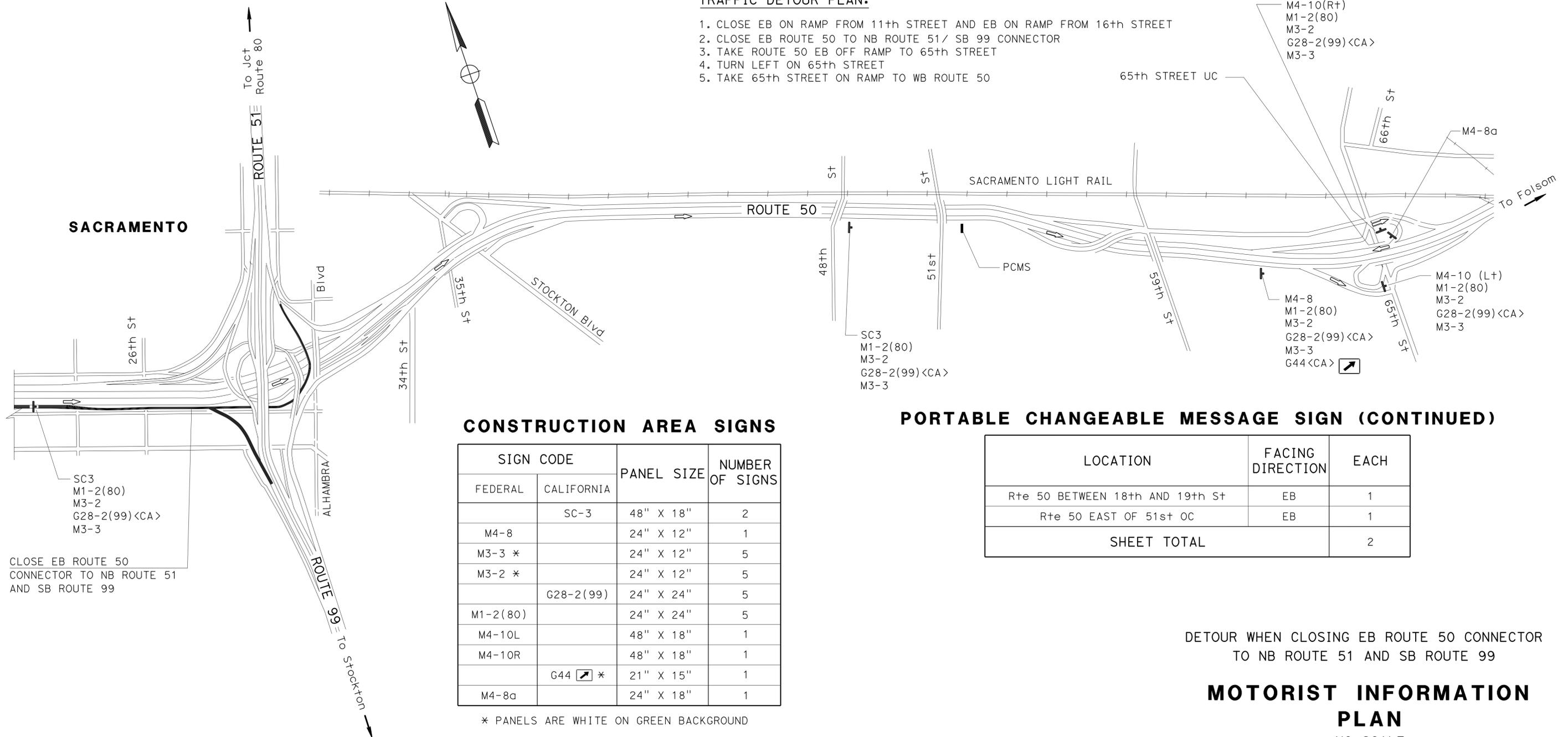
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KRIS M. ALBERS
 No. 49986
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA



TRAFFIC DETOUR PLAN:

1. CLOSE EB ON RAMP FROM 11th STREET AND EB ON RAMP FROM 16th STREET
2. CLOSE EB ROUTE 50 TO NB ROUTE 51/ SB 99 CONNECTOR
3. TAKE ROUTE 50 EB OFF RAMP TO 65th STREET
4. TURN LEFT ON 65th STREET
5. TAKE 65th STREET ON RAMP TO WB ROUTE 50



CONSTRUCTION AREA SIGNS

SIGN CODE		PANEL SIZE	NUMBER OF SIGNS
FEDERAL	CALIFORNIA		
	SC-3	48" X 18"	2
M4-8		24" X 12"	1
M3-3 *		24" X 12"	5
M3-2 *		24" X 12"	5
	G28-2(99)	24" X 24"	5
M1-2(80)		24" X 24"	5
M4-10L		48" X 18"	1
M4-10R		48" X 18"	1
	G44 [arrow] *	21" X 15"	1
M4-8a		24" X 18"	1

* PANELS ARE WHITE ON GREEN BACKGROUND

PORTABLE CHANGEABLE MESSAGE SIGN (CONTINUED)

LOCATION	FACING DIRECTION	EACH
Rte 50 BETWEEN 18th AND 19th St	EB	1
Rte 50 EAST OF 51st OC	EB	1
SHEET TOTAL		2

DETOUR WHEN CLOSING EB ROUTE 50 CONNECTOR TO NB ROUTE 51 AND SB ROUTE 99

MOTORIST INFORMATION PLAN
 NO SCALE

MI-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 CALCULATED/DESIGNED BY: CHUCK COOK
 CHECKED BY: KRIS ALBERS
 REVISED BY: [blank]
 DATE REVISED: [blank]

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NOTES:

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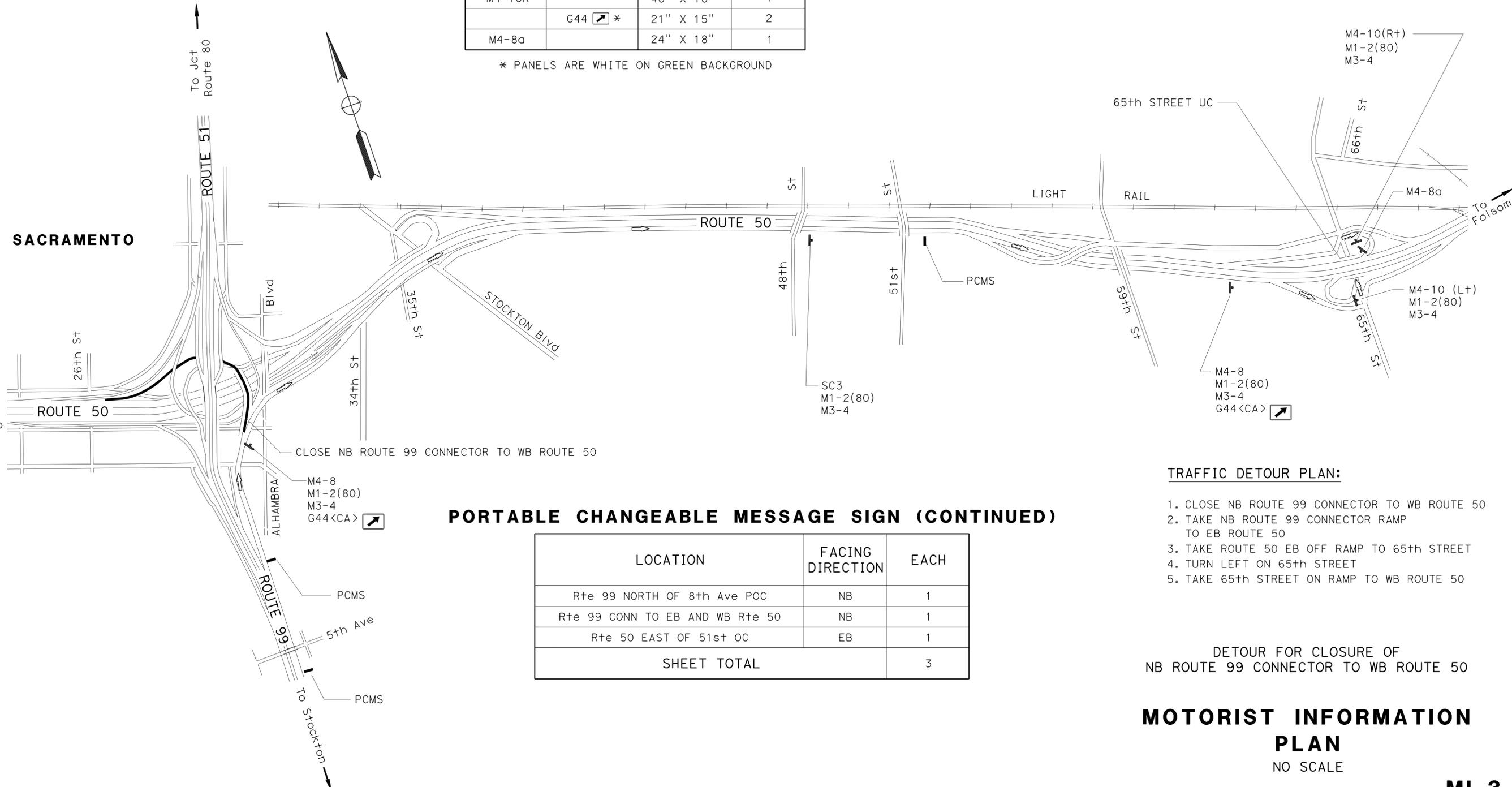
CONSTRUCTION AREA SIGNS

SIGN CODE		PANEL SIZE	NUMBER OF SIGNS
FEDERAL	CALIFORNIA		
	SC-3	48" X 18"	1
M4-8		24" X 12"	2
M3-4 *		24" X 12"	5
M1-2(80)		24" X 24"	5
M4-10L		48" X 18"	1
M4-10R		48" X 18"	1
	G44 *	21" X 15"	2
M4-8a		24" X 18"	1

* PANELS ARE WHITE ON GREEN BACKGROUND

LEGEND

- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 <CA> CALIFORNIA SIGN CODE



PORTABLE CHANGEABLE MESSAGE SIGN (CONTINUED)

LOCATION	FACING DIRECTION	EACH
Rte 99 NORTH OF 8th Ave POC	NB	1
Rte 99 CONN TO EB AND WB Rte 50	NB	1
Rte 50 EAST OF 51st OC	EB	1
SHEET TOTAL		3

TRAFFIC DETOUR PLAN:

1. CLOSE NB ROUTE 99 CONNECTOR TO WB ROUTE 50
2. TAKE NB ROUTE 99 CONNECTOR RAMP TO EB ROUTE 50
3. TAKE ROUTE 50 EB OFF RAMP TO 65th STREET
4. TURN LEFT ON 65th STREET
5. TAKE 65th STREET ON RAMP TO WB ROUTE 50

DETOUR FOR CLOSURE OF
 NB ROUTE 99 CONNECTOR TO WB ROUTE 50

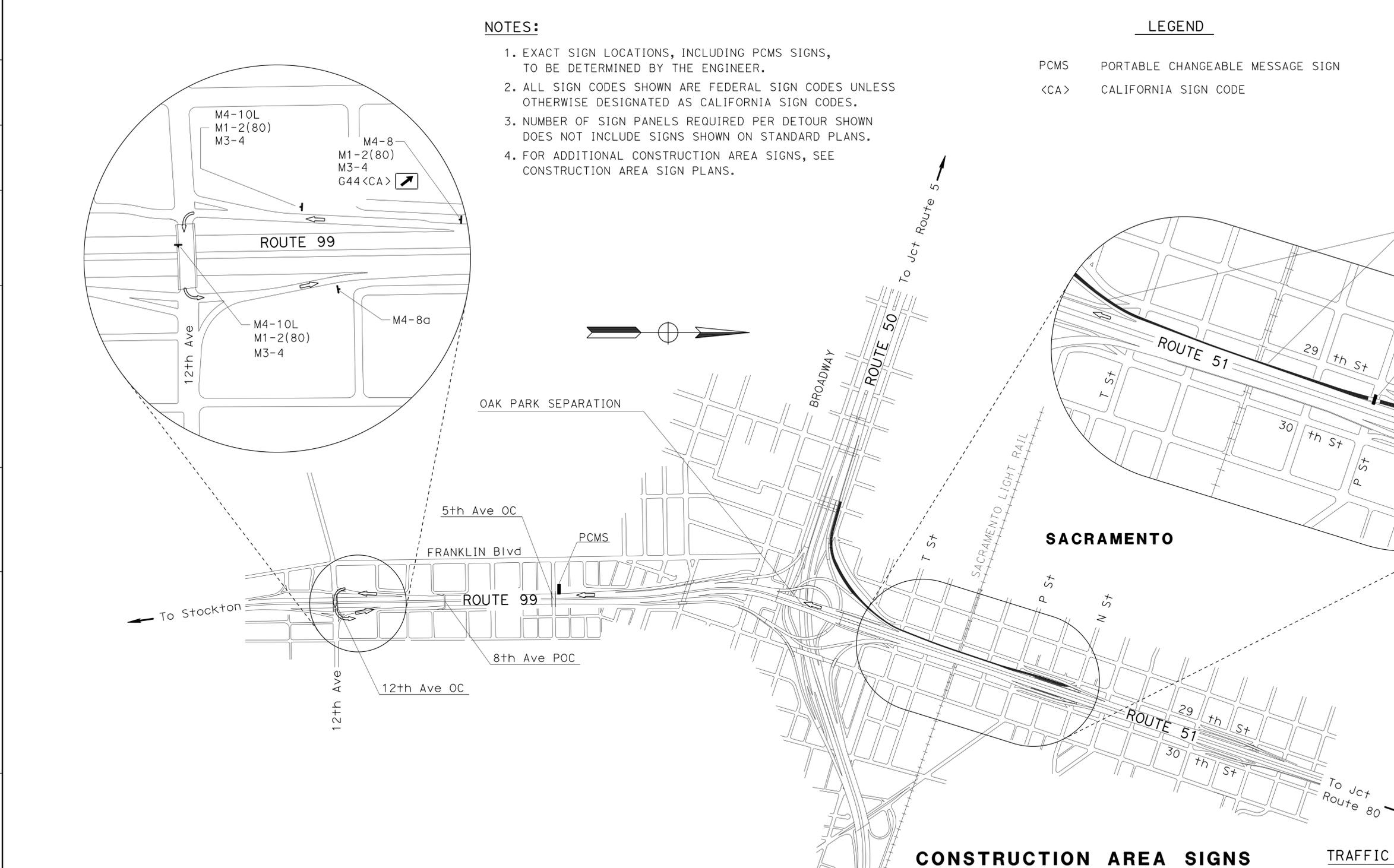
MOTORIST INFORMATION PLAN
 NO SCALE

MI-3

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 CALCULATED/DESIGNED BY: CHUCK COOK
 CHECKED BY: KRIS ALBERS
 REVISED BY: CHUCK COOK
 DATE REVISED:

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 TRAFFIC



NOTES:

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LEGEND

- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- <CA> CALIFORNIA SIGN CODE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Sac	5,50,51,80,99,191	Var	16	34

Kris M. Albers 11-17-14
 REGISTERED CIVIL ENGINEER DATE

11-17-14
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
 No. 49986
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

PORTABLE CHANGEABLE MESSAGE SIGN (CONTINUED)

LOCATION	FACING DIRECTION	EACH
SB Rte 51 AT P St	SB	1
SB Rte 99 NORTH OF 5th Ave OC	SB	1
SHEET TOTAL		2

CONSTRUCTION AREA SIGNS

SIGN CODE		PANEL SIZE	NUMBER OF SIGNS
FEDERAL	CALIFORNIA		
M3-4 *		24" X 12"	3
M4-8		24" X 12"	1
M4-8a		24" X 18"	1
M4-10L		48" X 18"	2
M1-2(80)		24" X 24"	3
	G44 *	21" X 15"	1

* PANELS ARE WHITE ON GREEN BACKGROUND

TRAFFIC DETOUR PLAN:

1. CLOSE SB ON RAMP TO ROUTE 51 FROM N STREET
2. CLOSE SB CONNECTOR TO WB ROUTE 50
3. TAKE SB ROUTE 99 OFF RAMP TO 12th AVENUE
4. TURN LEFT ON 12th AVENUE
5. TAKE 12th AVENUE ON RAMP TO NB ROUTE 99

DETOUR WHEN CLOSING SB ROUTE 51 CONNECTOR TO WB ROUTE 50

MOTORIST INFORMATION PLAN
 NO SCALE

MI-4

APPROVED FOR MOTORIST INFORMATION WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Sac	5,50,51,80,99,191	Var	17	34

Kris M. Albers 11-17-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 PLANS APPROVAL DATE

KRIS M. ALBERS
 No. 49986
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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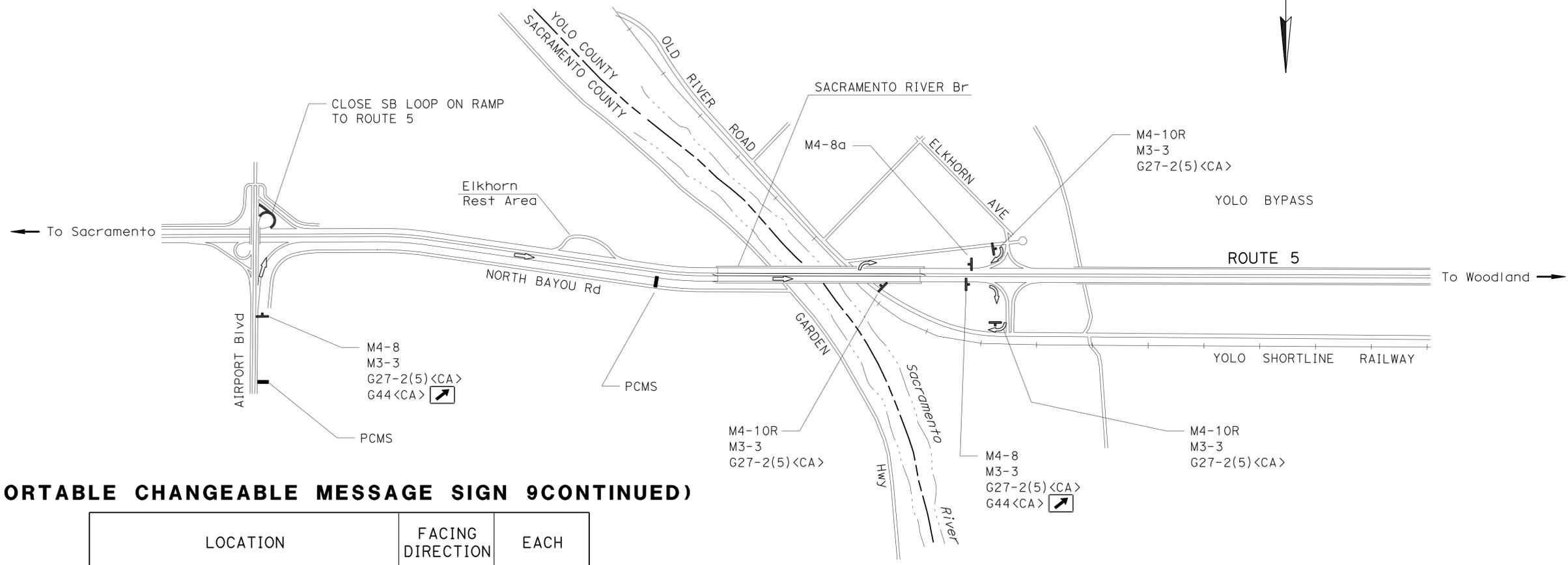
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LEGEND

- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 <CA> CALIFORNIA SIGN CODE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC
 FUNCTIONAL SUPERVISOR SERGIO ACEVES
 CHECKED BY
 CALCULATED/DESIGNED BY
 CHUCK COOK KRIS ALBERS
 REVISED BY CHUCK COOK KRIS ALBERS
 DATE REVISIONS



PORTABLE CHANGEABLE MESSAGE SIGN 9(CONTINUED)

LOCATION	FACING DIRECTION	EACH
SB AIRPORT Rd	SB	1
NB Rte 5 SOUTH OF SACRAMENTO RIVER Br	NB	1
SHEET TOTAL		2
SHEET TOTAL FROM MI-1		2
SHEET TOTAL FROM MI-2		2
SHEET TOTAL FROM MI-3		3
SHEET TOTAL FROM MI-4		2
TEMPORARY TRAFFIC CONTROL		6
TOTAL *		19

* NOT A SEPARATE PAY ITEM.

CONSTRUCTION AREA SIGNS

SIGN CODE		PANEL SIZE	NUMBER OF SIGNS
FEDERAL	CALIFORNIA		
M3-3 *		24" X 12"	5
M4-8		24" X 12"	2
M4-8a		24" X 18"	1
M4-10R		48" X 18"	3
	G27-2(5)	24" X 24"	5
	G44 * [arrow]	21" X 15"	2

* PANELS ARE WHITE ON BLUE BACKGROUND

TRAFFIC DETOUR PLAN:

1. CLOSE SB LOOP ON RAMP FROM AIRPORT Rd TO ROUTE 5
2. TAKE NB ON RAMP FROM AIRPORT Blvd TO ROUTE 5
3. TAKE NB ROUTE 5 OFF RAMP TO COUNTY Rd 22
4. TURN RIGHT ON RIVER Rd
5. TURN RIGHT ON COUNTY Rd 118
5. TAKE COUNTY 22 Rd ON RAMP TO SB ROUTE 5

DETOUR WHEN CLOSING SB LOOP ONRAMP FROM AIRPORT Rd TO ROUTE 5

MOTORIST INFORMATION PLAN
NO SCALE

MI-5

APPROVED FOR MOTORIST INFORMATION WORK ONLY



LAST REVISION DATE PLOTTED => 23-DEC-2014
 10-21-14 TIME PLOTTED => 09:41

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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 CHECKED BY: KRIS ALBERS
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

REMOVE THERMOPLASTIC TRAFFIC STRIPE (WATER BLASTING)

LOCATION	GORE TREATMENT	LANELINE	RIGHT EDGELINE	CENTERLINE	CHANNELIZING LINE	LANE DROP
	LF	LF	LF		LF	
2	322		597			48
4		178	710			
6		141	483		966	
7	80		452		330	
8			3,372	3,372		
SUBTOTAL	402	319	5,614	3,372	1,296	48
TOTAL	11,051					

REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)

LOCATION	LEFT EDGELINE
	LF
2	314
4	710
6	483
7	348
TOTAL	1,855

REMOVE THERMOPLASTIC PAVEMENT MARKING (WATER BLASTING)

LOCATION	DESCRIPTION	SQUARE FEET
6	"CAR"	17
	"POOL"	23
	"LANE"	24
	DIAMOND SYMBOL	22
7	TYPE I ARROW (24')	31
	DIAMOND SYMBOL	11
	"CAR"	17
	"POOL"	23
TOTAL		168

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Sac	5,50,51,80,99,191	Var	18	34

11-17-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
 No. 49986
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

ABBREVIATION

EWNV = ENHANCED WET NIGHT VISIBILITY

THERMOPLASTIC PAVEMENT MARKING (EWNV)

LOCATION	DESCRIPTION	SQUARE FEET
6	"CAR"	17
	"POOL"	23
	"LANE"	24
	DIAMOND SYMBOL	22
7	TYPE I ARROW (24')	31
	DIAMOND SYMBOL	11
	"CAR"	17
	"POOL"	23
TOTAL		168

4" THERMOPLASTIC TRAFFIC STRIPE (EWNV)

LOCATION	DETAIL NUMBER		
	22	25A	27B
		LF	LF
1		919	919
2		314	597
3		1,687	1,687
4		1,783	1,783
5		1,463	1,463
6		483	483
7		348	452
8	3,372		3,372
SUBTOTAL	3,372	6,997	10,756
TOTAL	21,125		

PAVEMENT DELINEATION QUANTITIES

PDQ-1

LAST REVISION | DATE PLOTTED => 22-DEC-2014
 08-26-14 TIME PLOTTED => 13:43

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Caltrans
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 CALCULATED/DESIGNED BY: CHUCK COOK
 CHECKED BY: KRIS ALBERS
 REVISIONS: x x x x x x x x x x

4" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 17-7)

LOCATION	DETAIL NUMBER	
	9	LF
6	483	
TOTAL	483	

4" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 36-12)

LOCATION	DETAIL NUMBER	
	12	LF
1	919	
3	1,687	
4	1,783	
5	1,463	
TOTAL	5,852	

8" THERMOPLASTIC TRAFFIC STRIPE (EWNV)

LOCATION	DETAIL NUMBER		
	36	36A	38
	LF	LF	LF
2		161	
5	155		
6			483
7	40		165
SUBTOTAL	195	161	648
TOTAL	1,004		

ABBREVIATION

EWNV = ENHANCED WET NIGHT VISIBILITY

8" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 12-3)

LOCATION	DETAIL NUMBER	
	37	LF
2	122	
TOTAL	122	

PAVEMENT MARKER

LOCATION	RETROREFLECTIVE		
	TYPE C (EACH)	TYPE G (EACH)	TYPE H (EACH)
1		21	40
2	8	15	
3		37	72
4		39	76
5		32	62
6		34	22
7		10	16
SUBTOTAL	8	188	288
TOTAL	484		

PAVEMENT MARKER (RETROREFLECTIVE - RECESSED)

LOCATION	RETROREFLECTIVE
	TYPE D (EACH)
8	142
TOTAL	142

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But,Sac	5,50,51,80,99,191	Var	19	34

Kris M. Albers 11-17-14
 REGISTERED CIVIL ENGINEER DATE

11-17-14
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
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 No. 49986
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

PAVEMENT DELINEATION QUANTITIES

PDQ-2



Dennis L. Corcoran 11-17-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 DENNIS CORCORAN
 No. 59438
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA

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ROADWAY/STRUCTURE QUANTITIES

LOCATION	DECK REPAIR						ROADWAY QUANTITIES					
	REMOVE ASPHALT CONCRETE SURFACING	REMOVE UNSOUND CONCRETE	RAPID SETTING CONCRETE (PATCH)	PREPARE CONCRETE BRIDGE DECK SURFACE	TREAT BRIDGE DECK	FURNISH BRIDGE DECK TREATMENT MATERIAL	COLD PLANE ASPHALT CONCRETE PAVEMENT	CRACK TREATMENT	HOT MIX ASPHALT (TYPE A)	HOT MIX ASPHALT (OPEN GRADED)	HIGH FRICTION SURFACE TREATMENT *	
	SQFT	CF	CF	SQFT	SQFT	GAL	SQYD	LNMI	TON	TON	SQYD	
LOCATION 1							3,436	0.2	344		3,436	
LOCATION 2								0.1			1,870	
LOCATION 3	15,515	194	194	31,030	15,515	173	4,233	0.3	306	118	6,503	
LOCATION 4				26,539			4,440	0.2	444		10,336	
LOCATION 5	27,836	348	348	55,672	27,836	309	2,539	0.1	254		8,725	
LOCATION 6								0.1			2,252	
LOCATION 7								0.1			1,300	
LOCATION 8								0.3			5,352	
TOTAL	43,351	542	542	113,241	43,351	482	14,648	1.4	1,348	118	39,774	

* FOR LOCATIONS 3, 4 & 5 THE QUANTITY SHOWN ACCOUNTS FOR A SECOND LAYER OF HIGH FRICTION SURFACE TREATMENT (HFST).

TEMPORARY WATER POLLUTION CONTROL

ITEM DESCRIPTION	Qty	UNIT
TEMPORARY DRAINAGE INLET PROTECTION	25	EA

SUMMARY OF QUANTITIES

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

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

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

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	21	34

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE



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

TO ACCOMPANY PLANS DATED 11-17-14

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

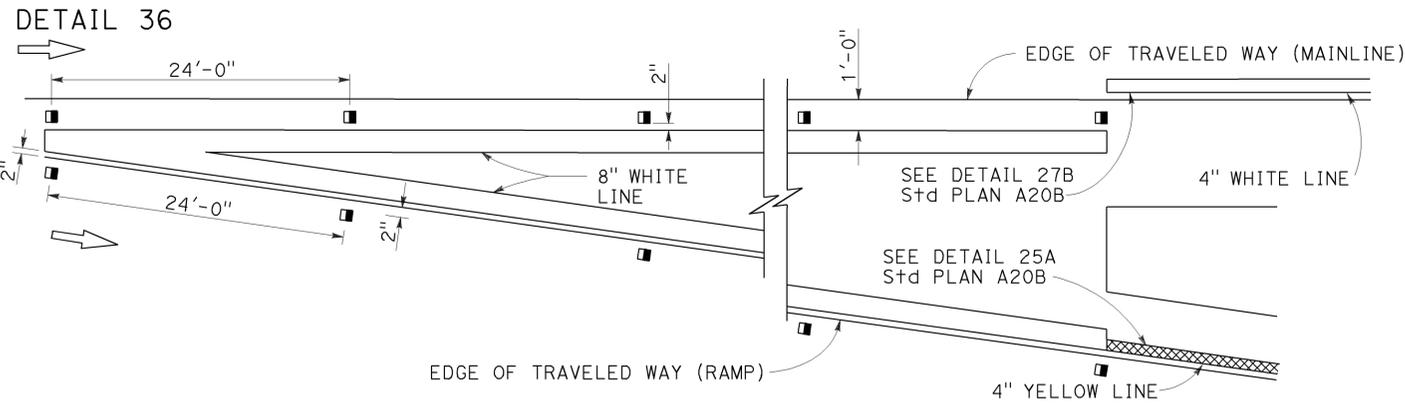
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

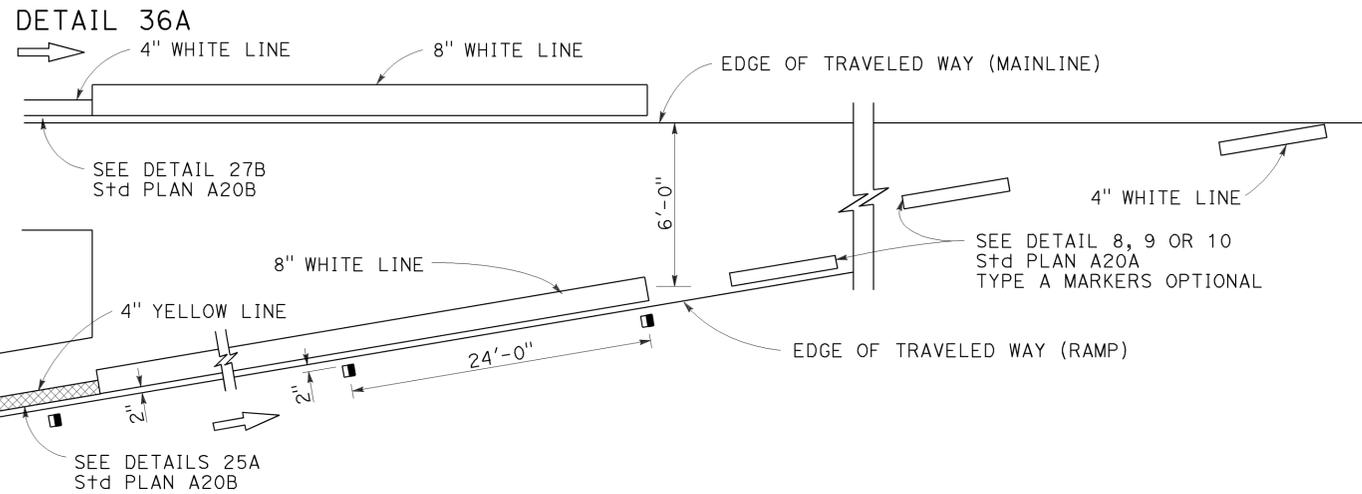
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

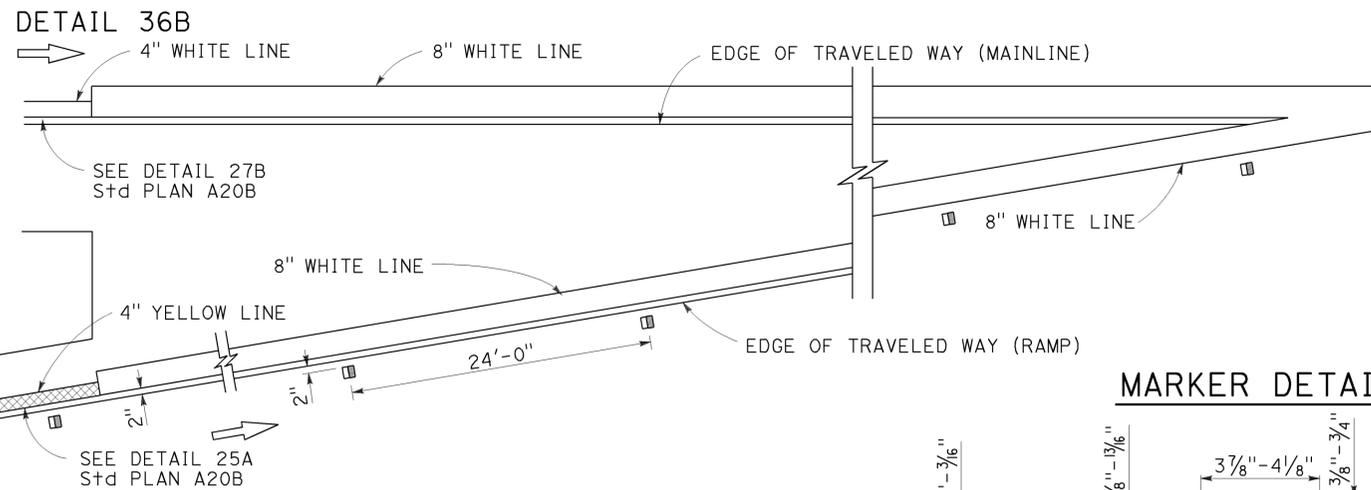
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

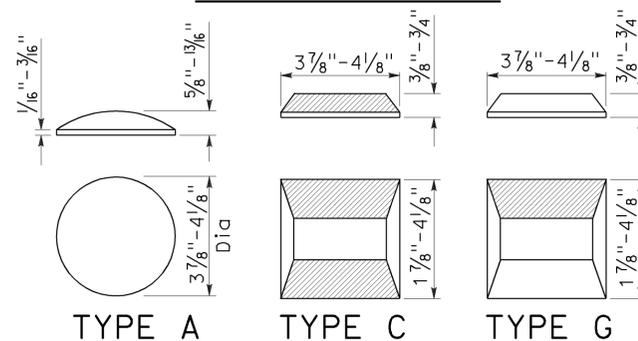


MARKER DETAILS

LEGEND:

MARKERS

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



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	22	34

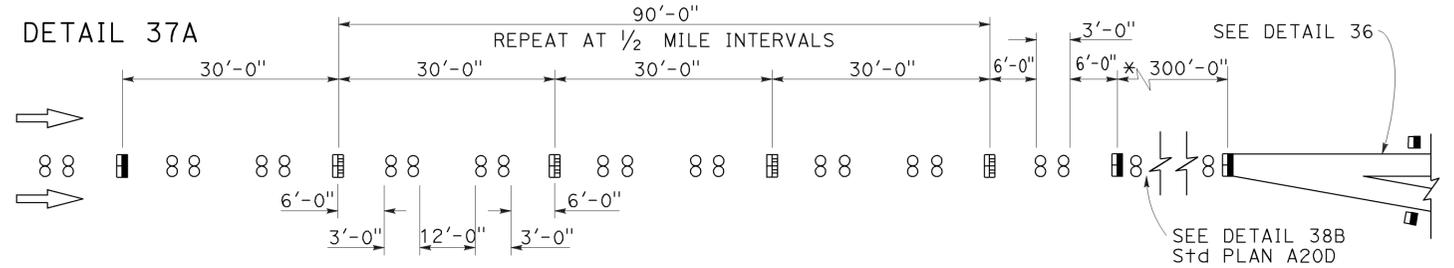
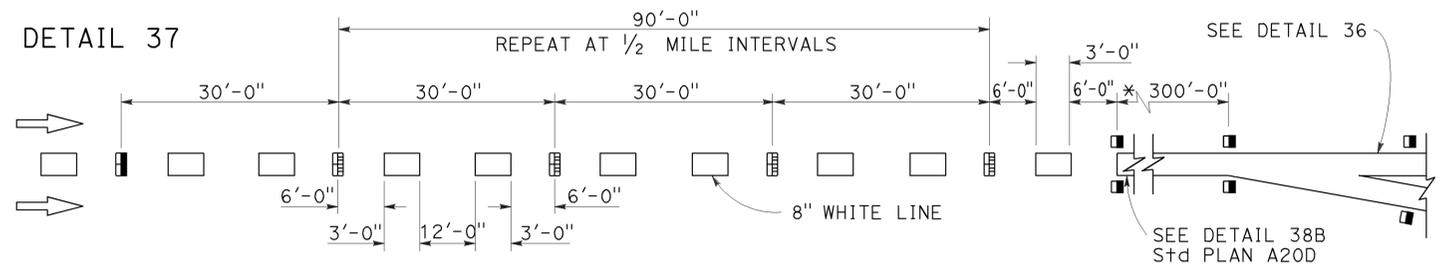
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE

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

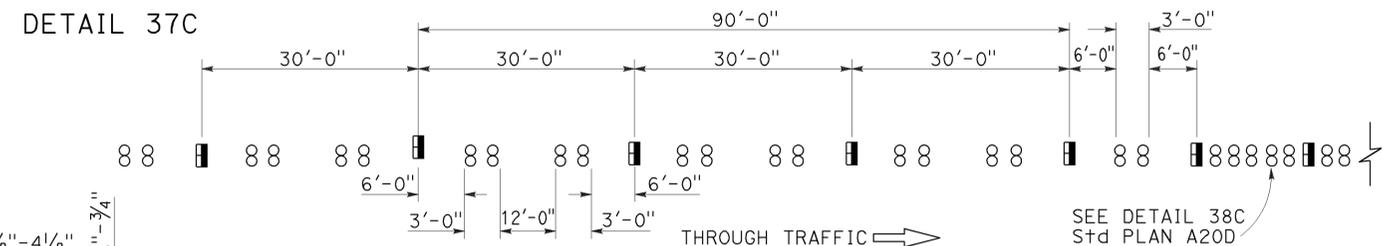
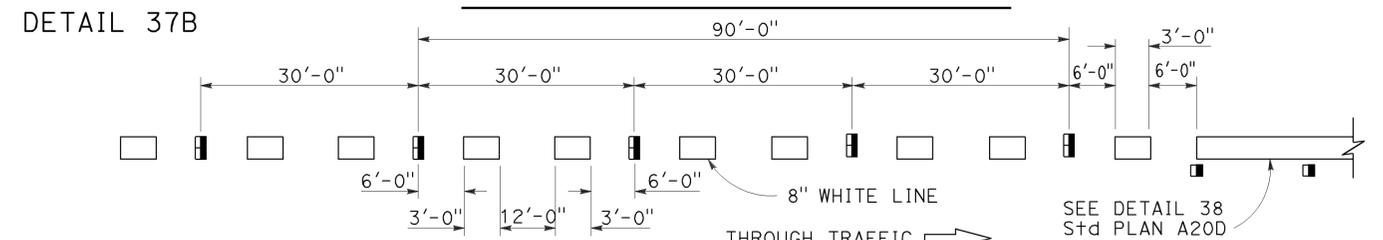
TO ACCOMPANY PLANS DATED 11-17-14

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

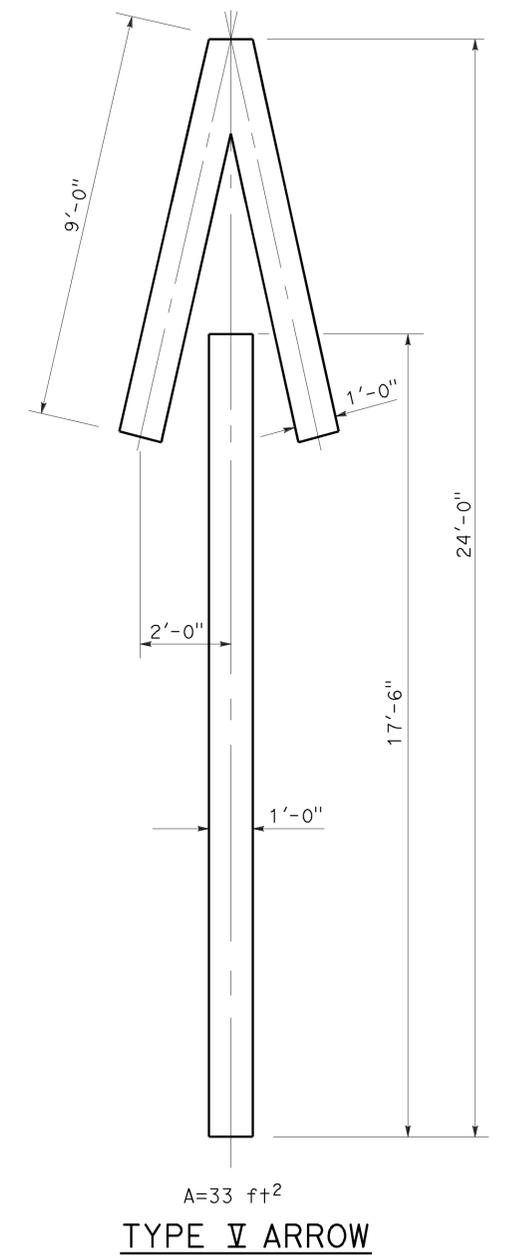
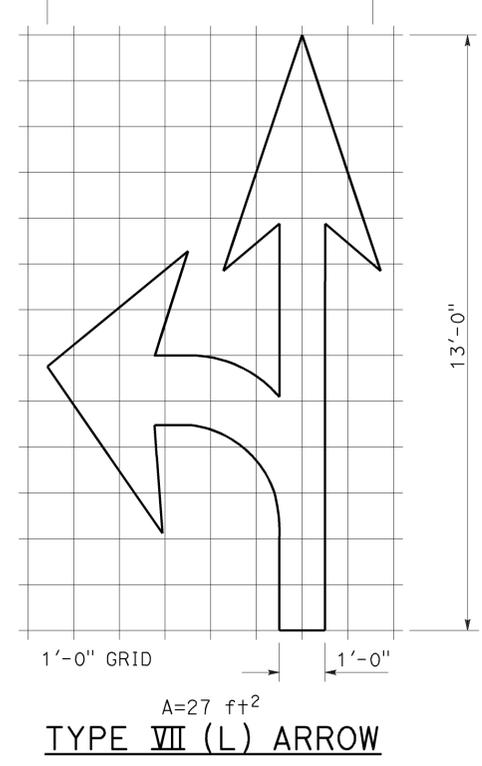
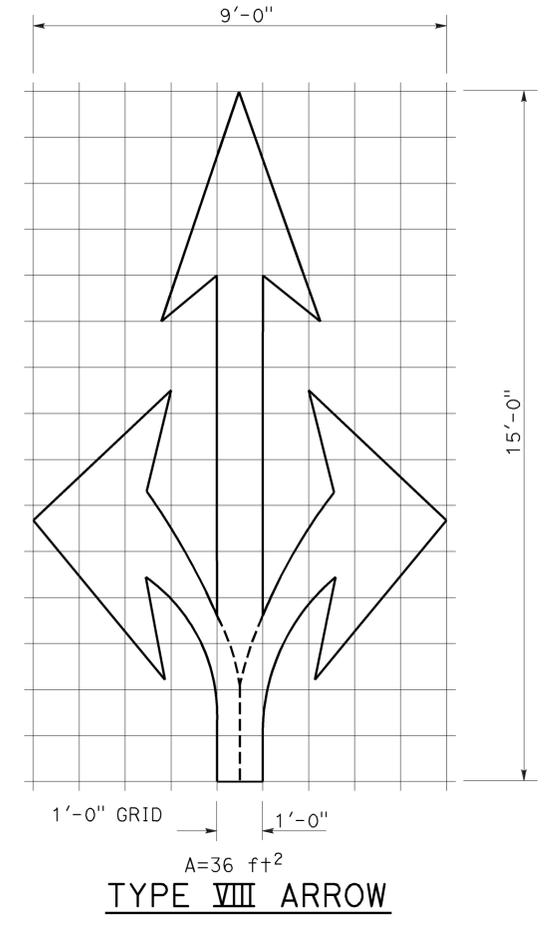
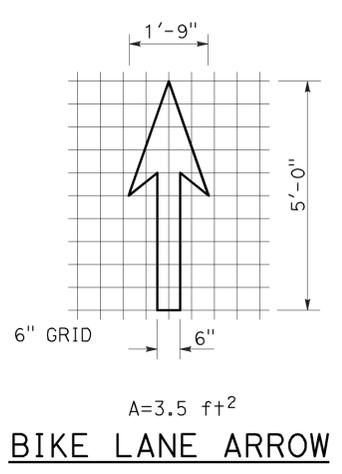
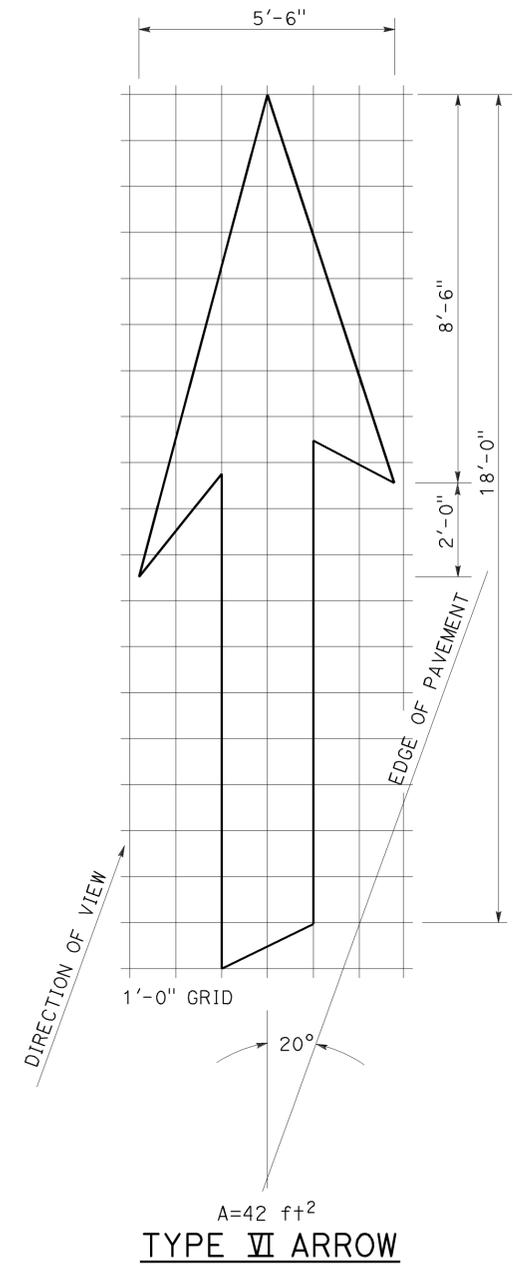
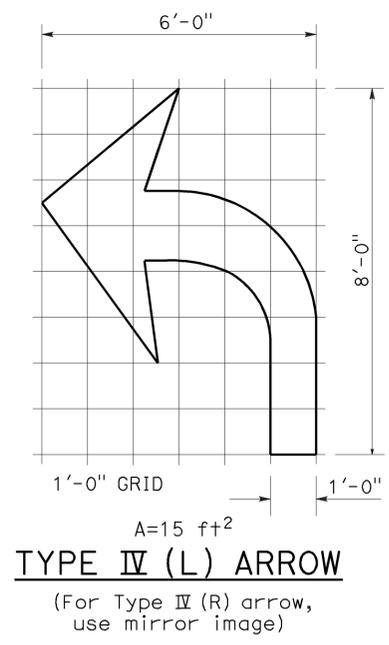
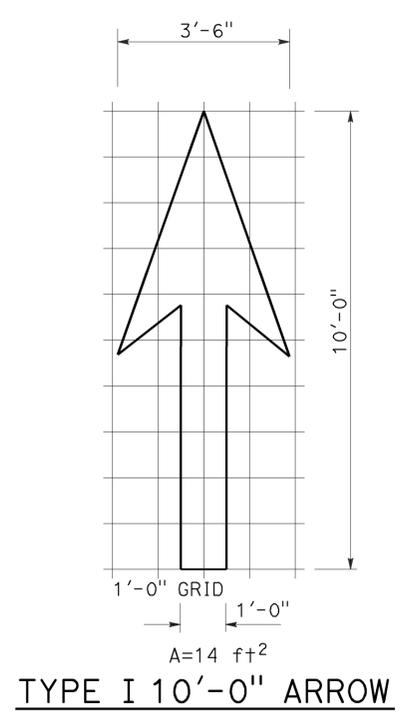
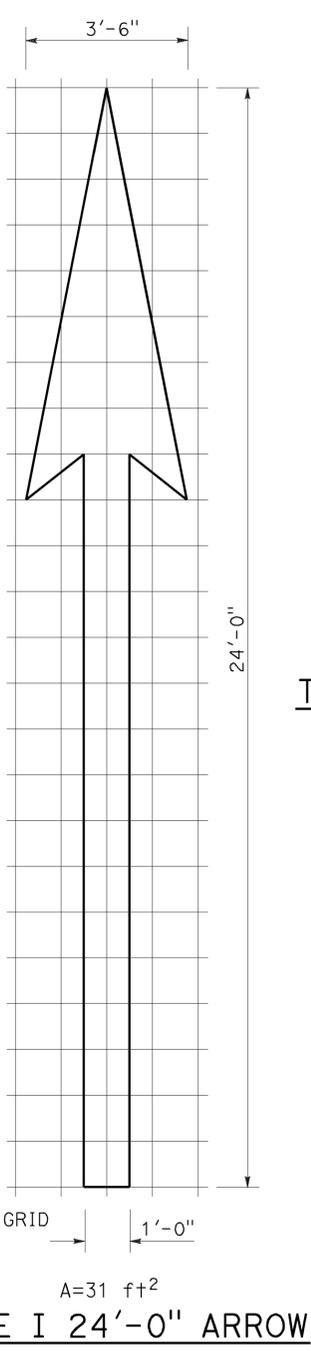
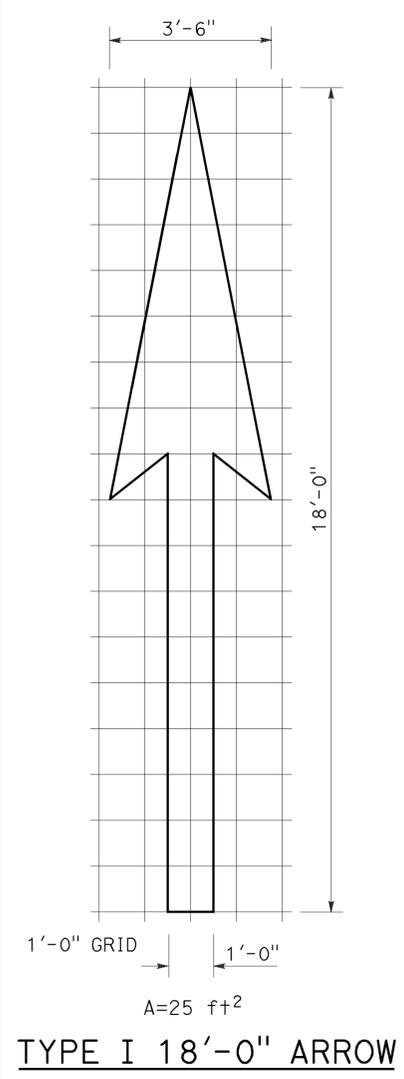
RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	23	34
April 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 11-17-14



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

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

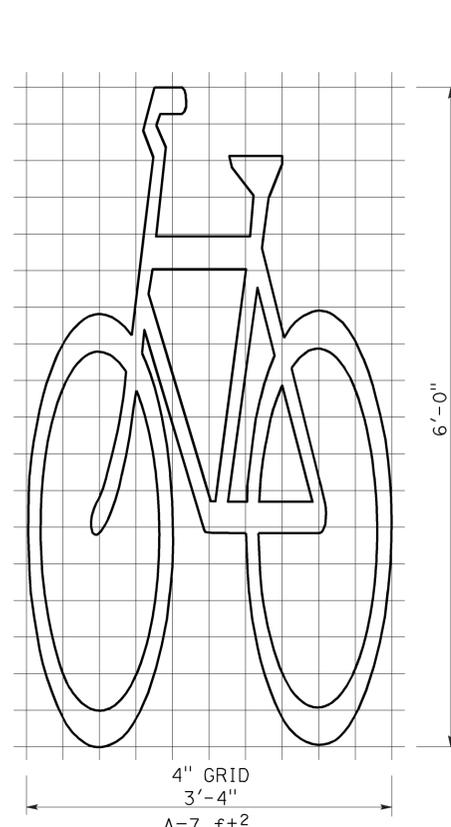
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	24	34

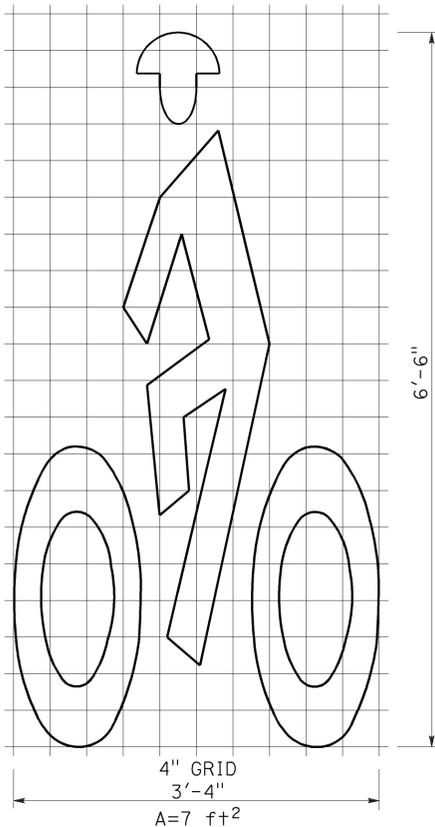
Registered Professional Engineer
 Roberto L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

October 19, 2012
 PLANS APPROVAL DATE

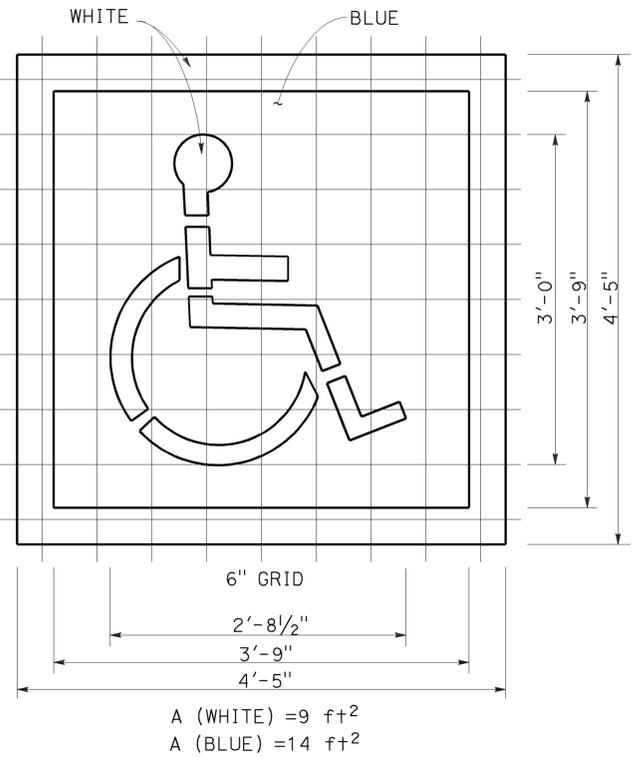
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



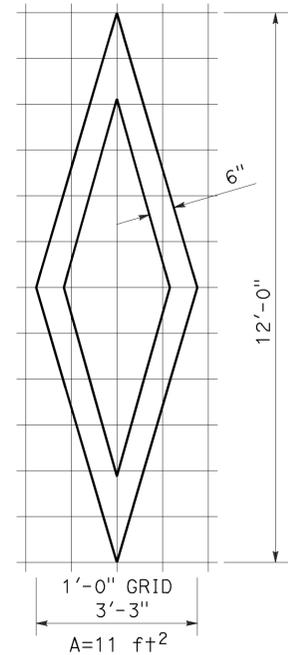
**BIKE LANE SYMBOL
WITHOUT PERSON**



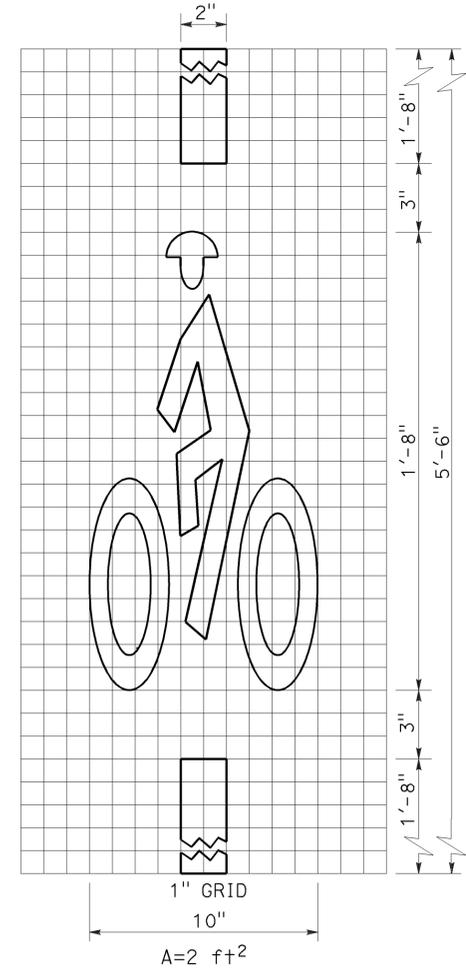
**BIKE LANE SYMBOL
WITH PERSON**



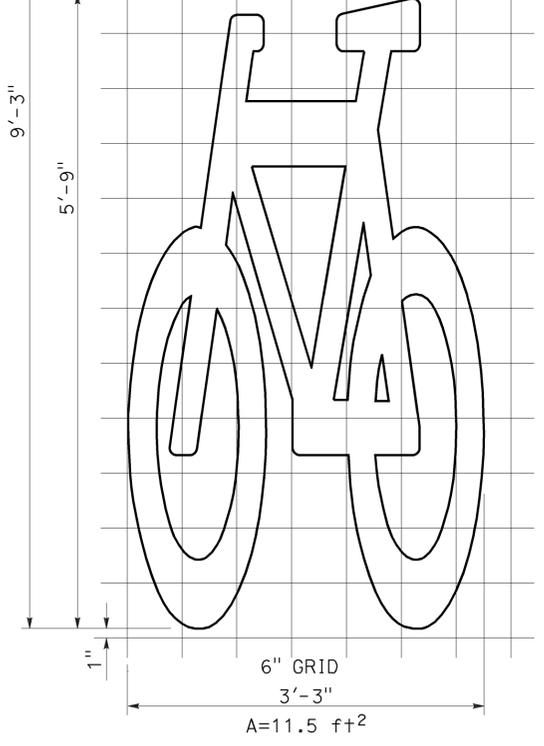
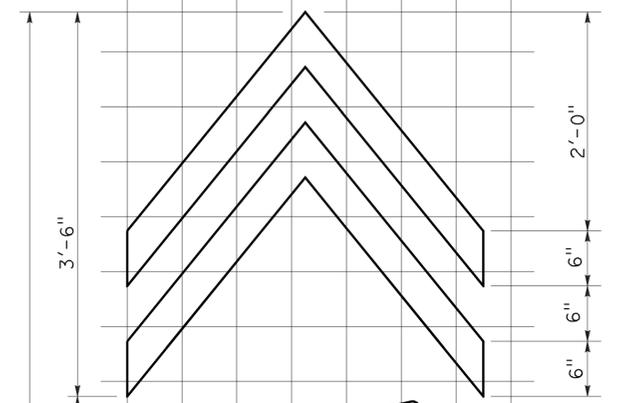
**INTERNATIONAL SYMBOL
OF ACCESSIBILITY (ISA) MARKING**



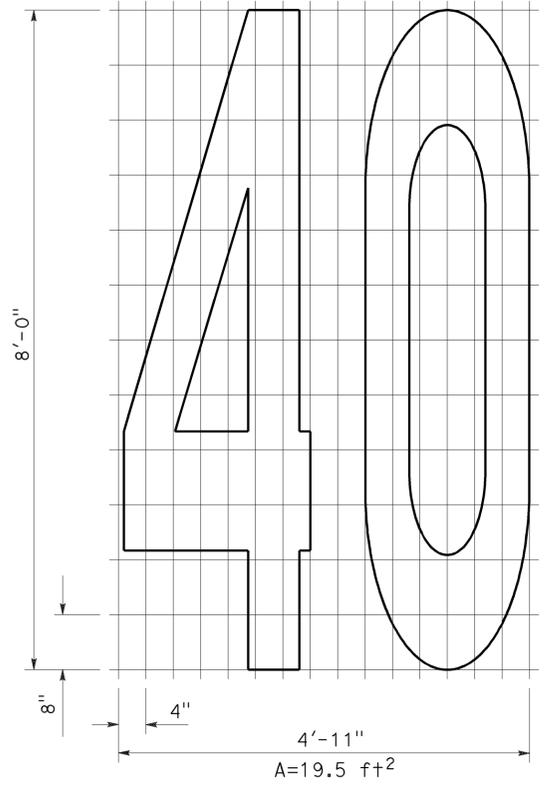
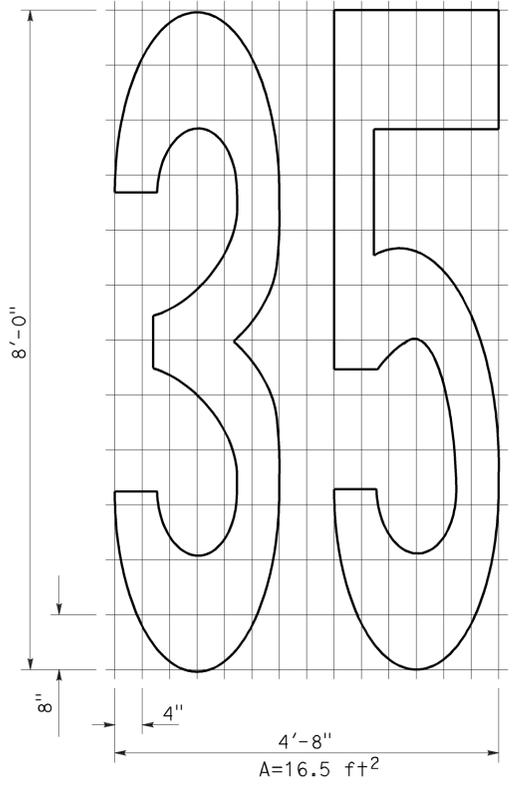
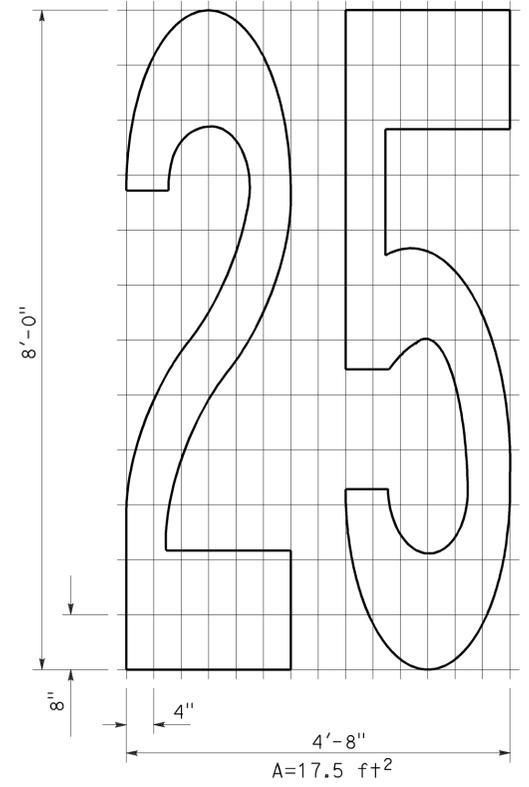
DIAMOND SYMBOL



**BICYCLE LOOP
DETECTOR SYMBOL**



SHARED ROADWAY BICYCLE MARKING



NUMERALS

NOTE: TO ACCOMPANY PLANS DATED 11-17-14
 Minor variations in dimensions may be accepted by the Engineer.

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

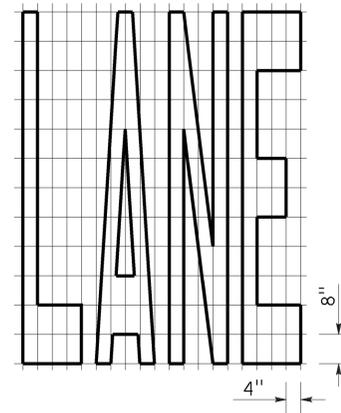
RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24C

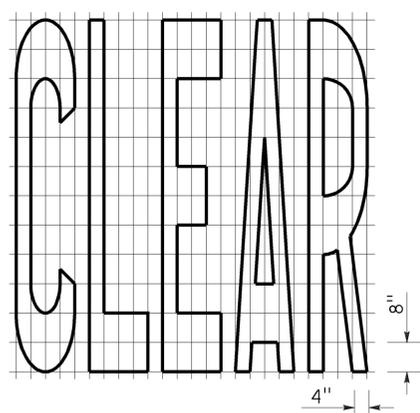
2010 REVISED STANDARD PLAN RSP A24C

TO ACCOMPANY PLANS DATED 11-17-14

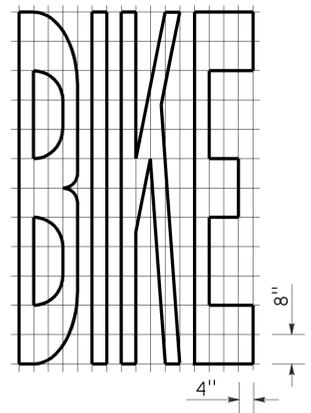
2010 REVISED STANDARD PLAN RSP A24E



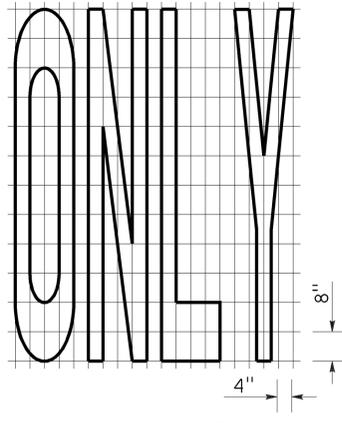
A=24 ft²



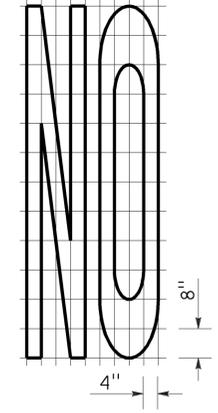
A=27 ft²



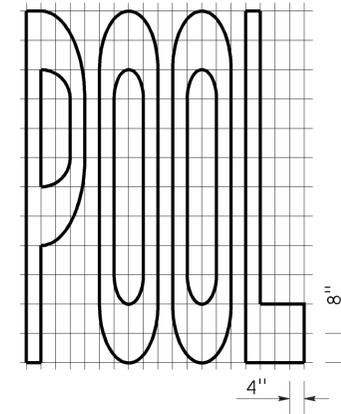
A=21 ft²



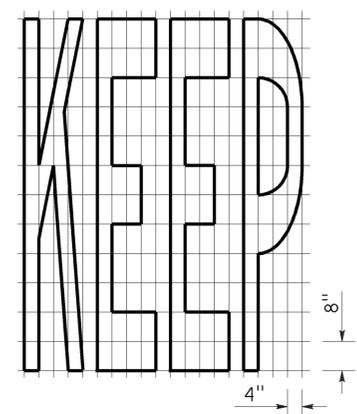
A=22 ft²



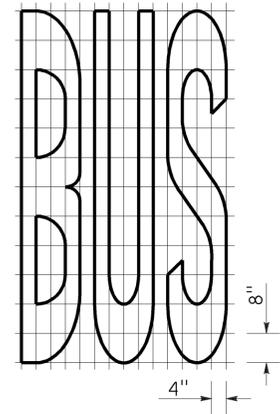
A=14 ft²



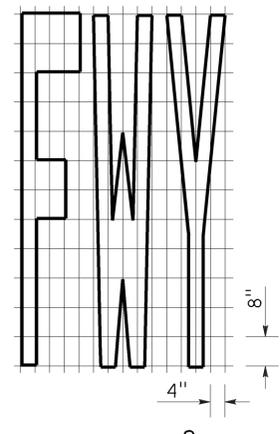
A=23 ft²



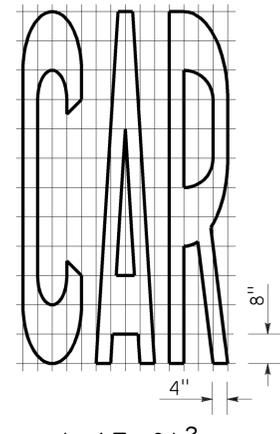
A=24 ft²



A=20 ft²

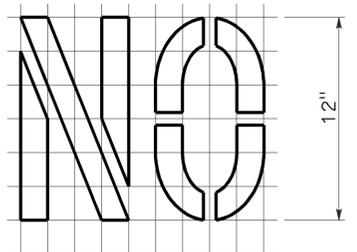


A=16 ft²



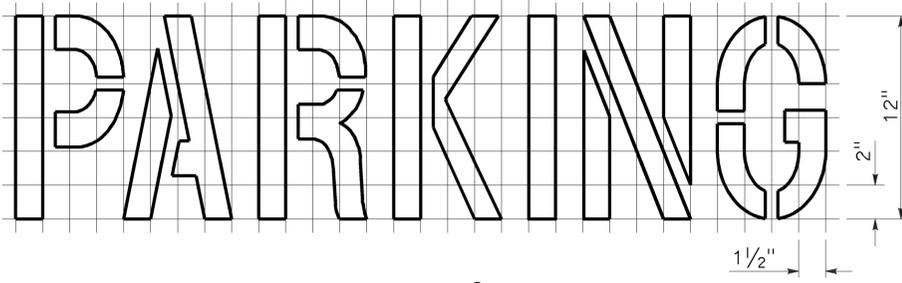
A=17 ft²

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



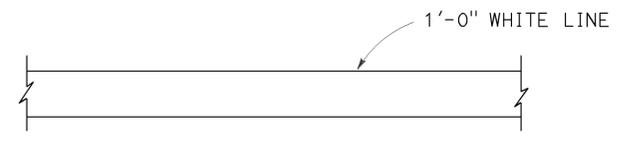
A=2 ft²

See Notes 6 and 7

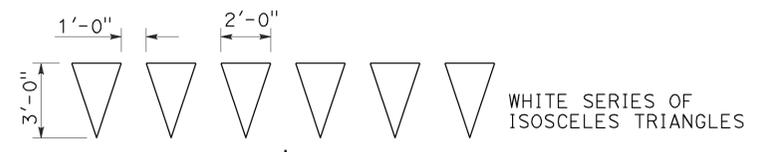


A=2 ft²

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.

TO ACCOMPANY PLANS DATED 11-17-14

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	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

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

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

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

TABLE 2

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

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

TABLE 3

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

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

NO SCALE

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

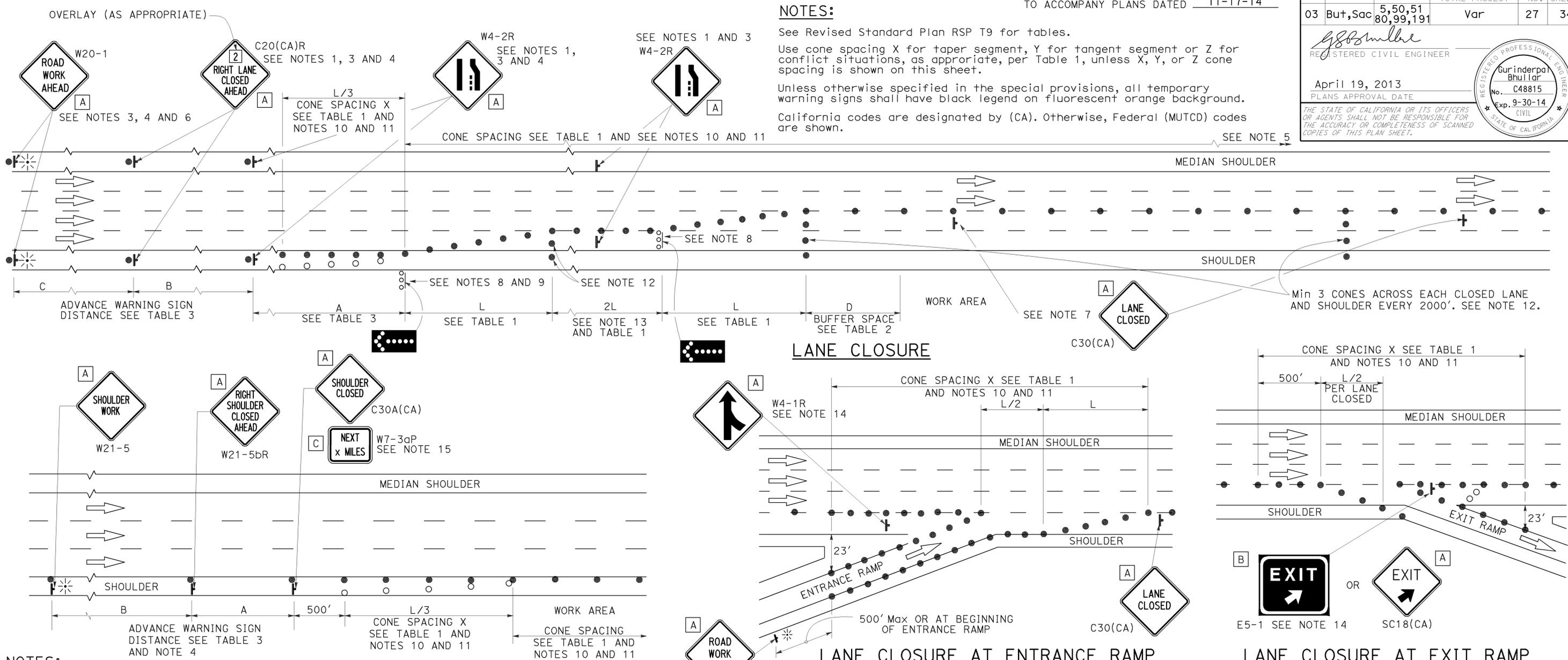
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	27	34

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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

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



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

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

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

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

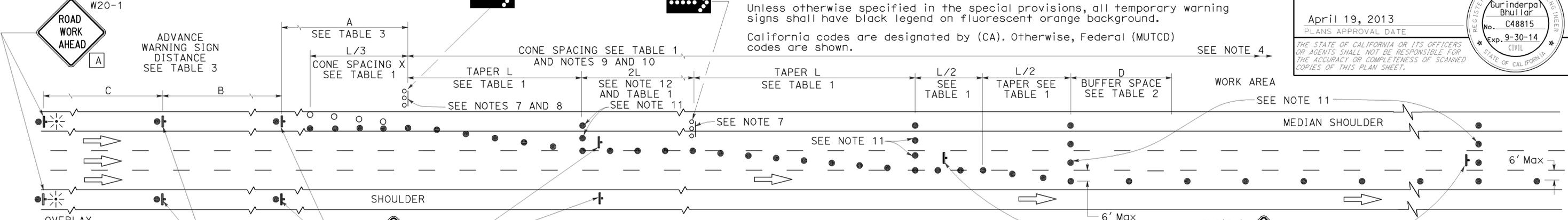
NOTES: See Revised Standard Plan RSP T9 for tables.

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.

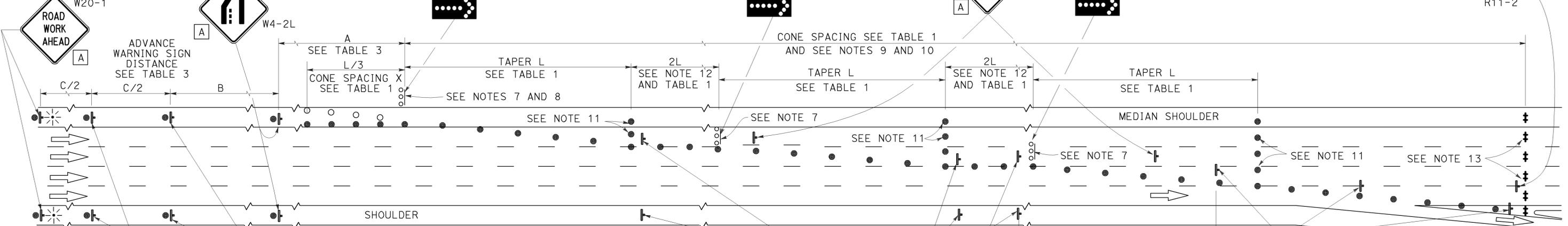
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

SEE NOTES 3 AND 5



LANE CLOSURE WITH PARTIAL SHOULDER USE

SEE NOTES 3 AND 5



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- 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.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- 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.
- 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.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

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

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

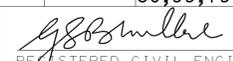
NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

2010 REVISED STANDARD PLAN RSP T10A

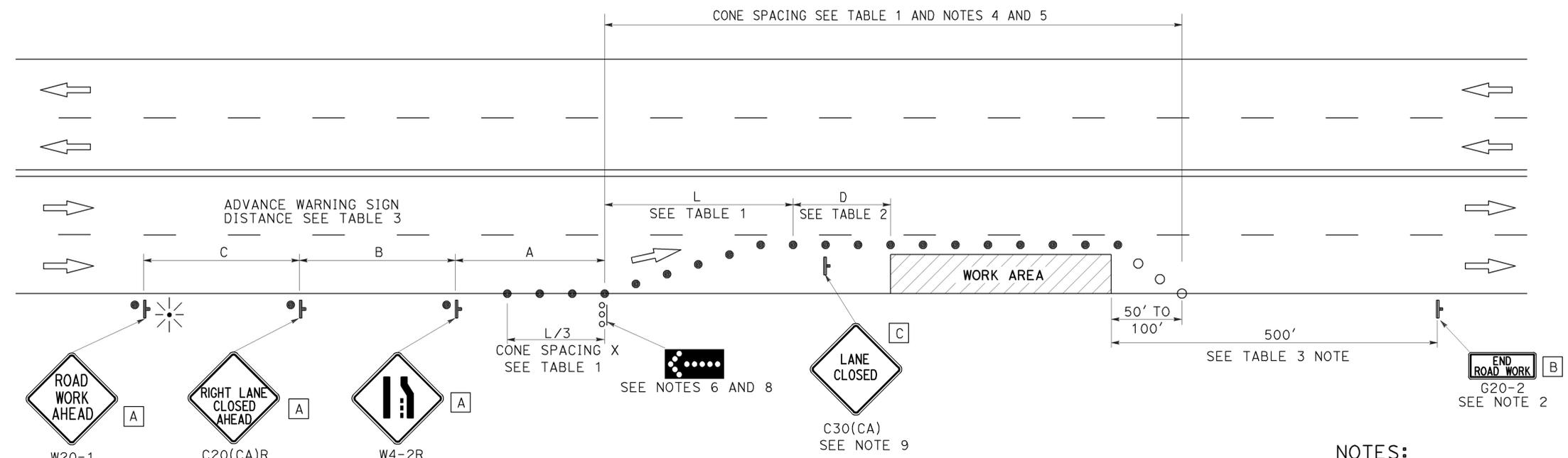
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	29	34


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE



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

TO ACCOMPANY PLANS DATED 11-17-14



TYPICAL LANE CLOSURE

NOTES:

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

NOTES:

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

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
MULTILANE CONVENTIONAL
HIGHWAYS**

NO SCALE

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

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

NOTES:

See Revised Standard Plan RSP T9 for tables.

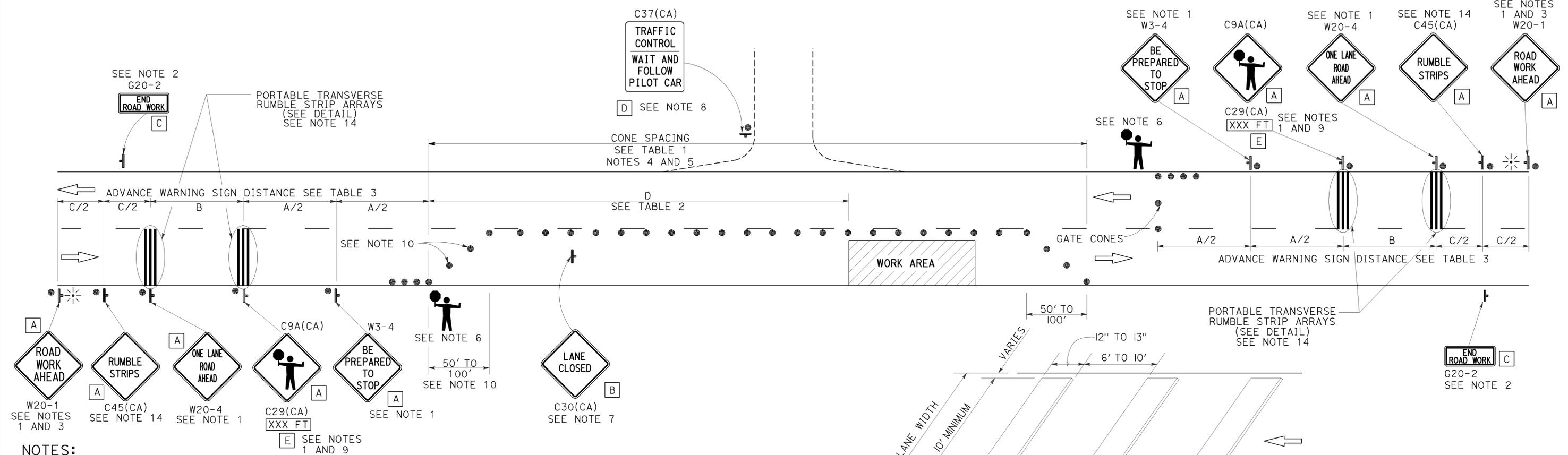
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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.

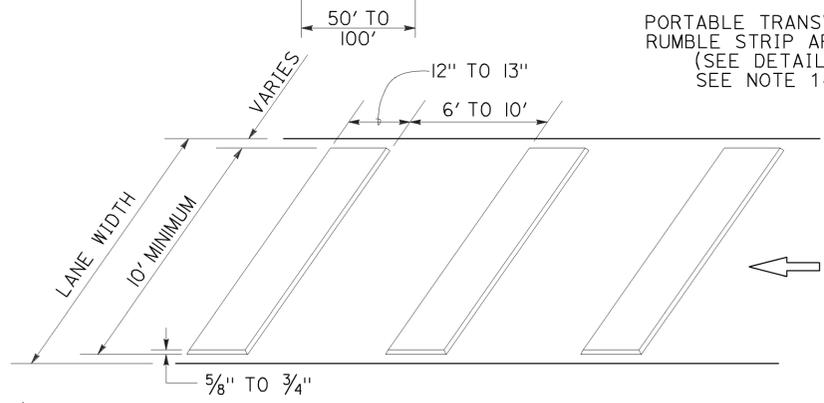
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 11-17-14



- 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.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions



SIGN PANEL SIZE (Min)

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

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

2010 REVISED STANDARD PLAN RSP T13

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

LEGEND

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	31	34

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

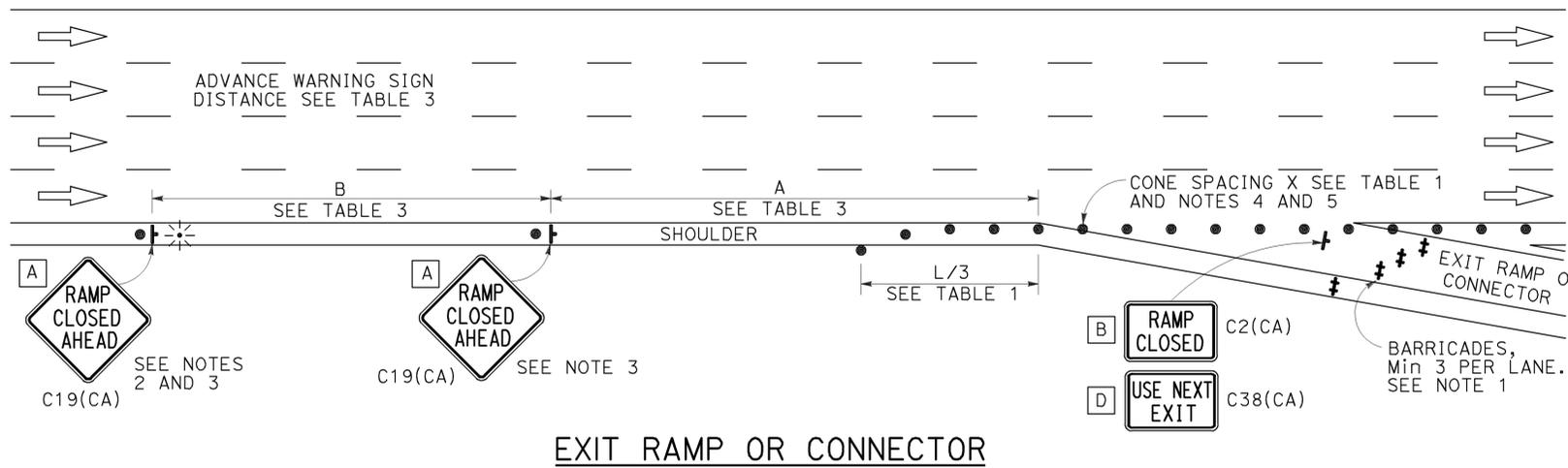
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

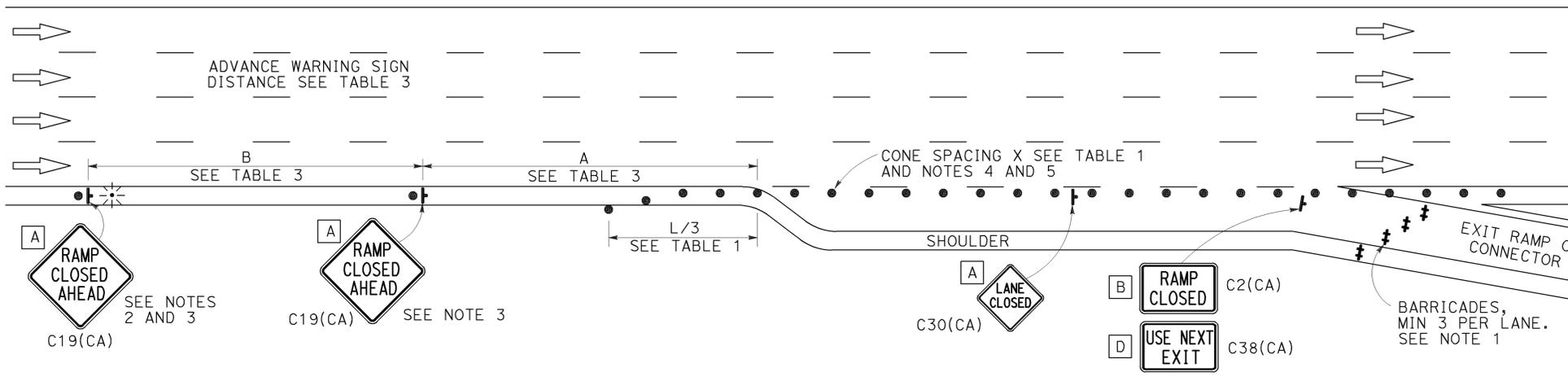
TO ACCOMPANY PLANS DATED 11-17-14

NOTES:

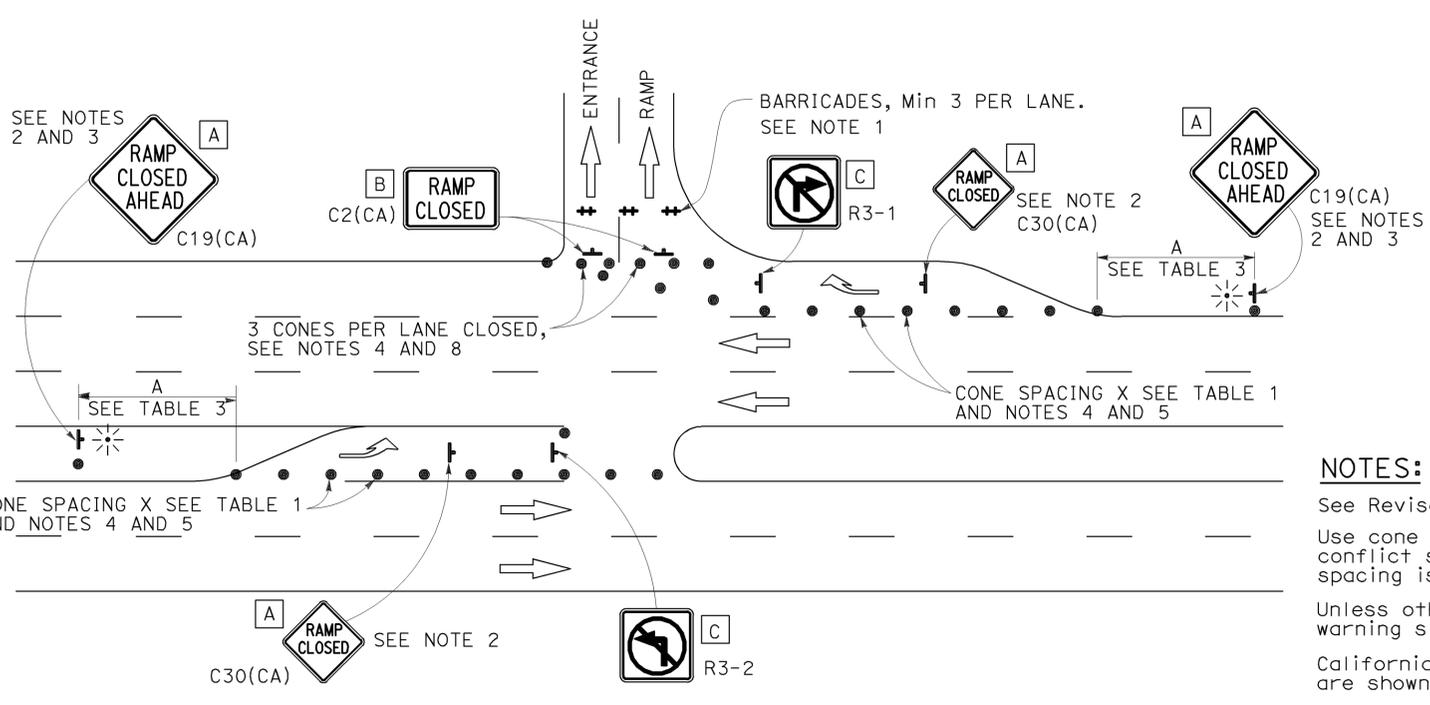
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



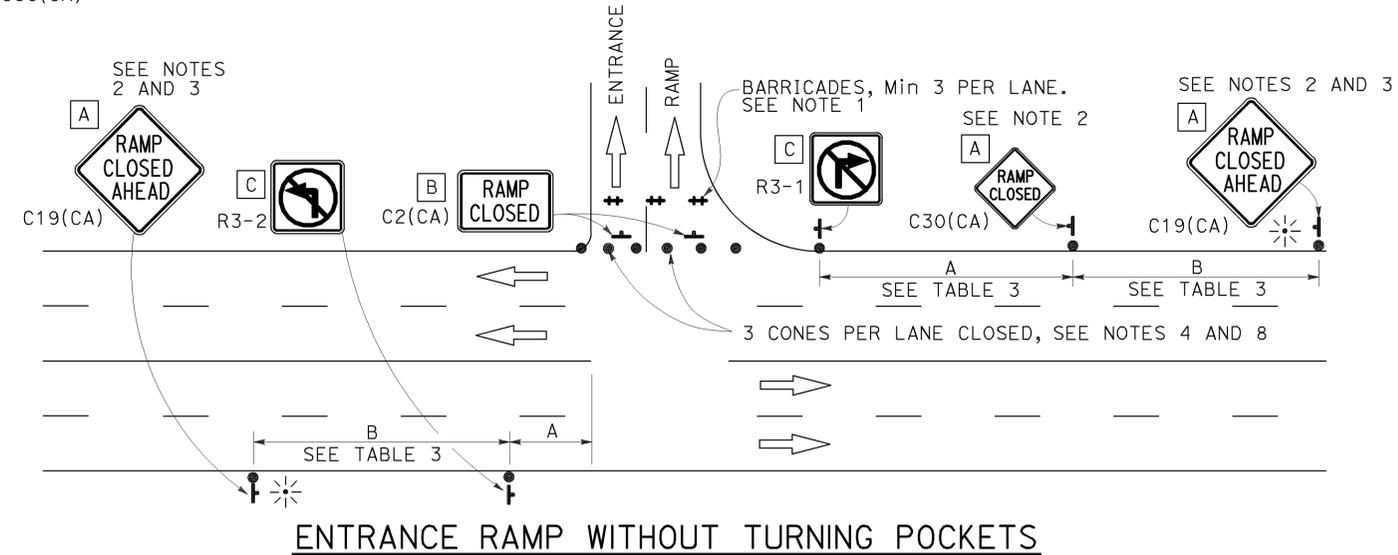
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

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

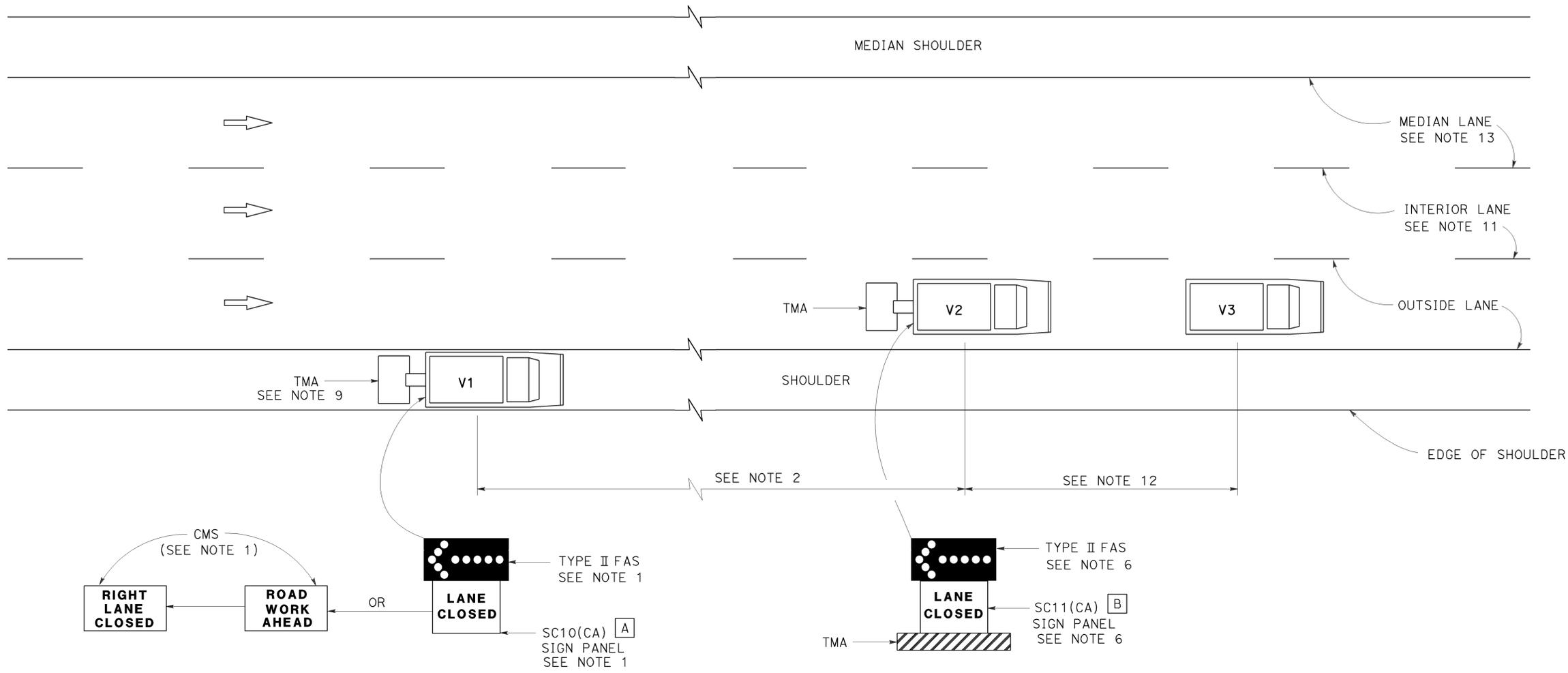
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

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

2010 REVISED STANDARD PLAN RSP T14



TO ACCOMPANY PLANS DATED 11-17-14



SIGN PANEL SIZE (Min)

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

LEGEND

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

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

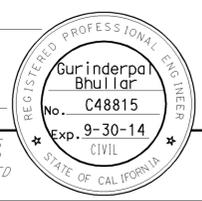
RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15 DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

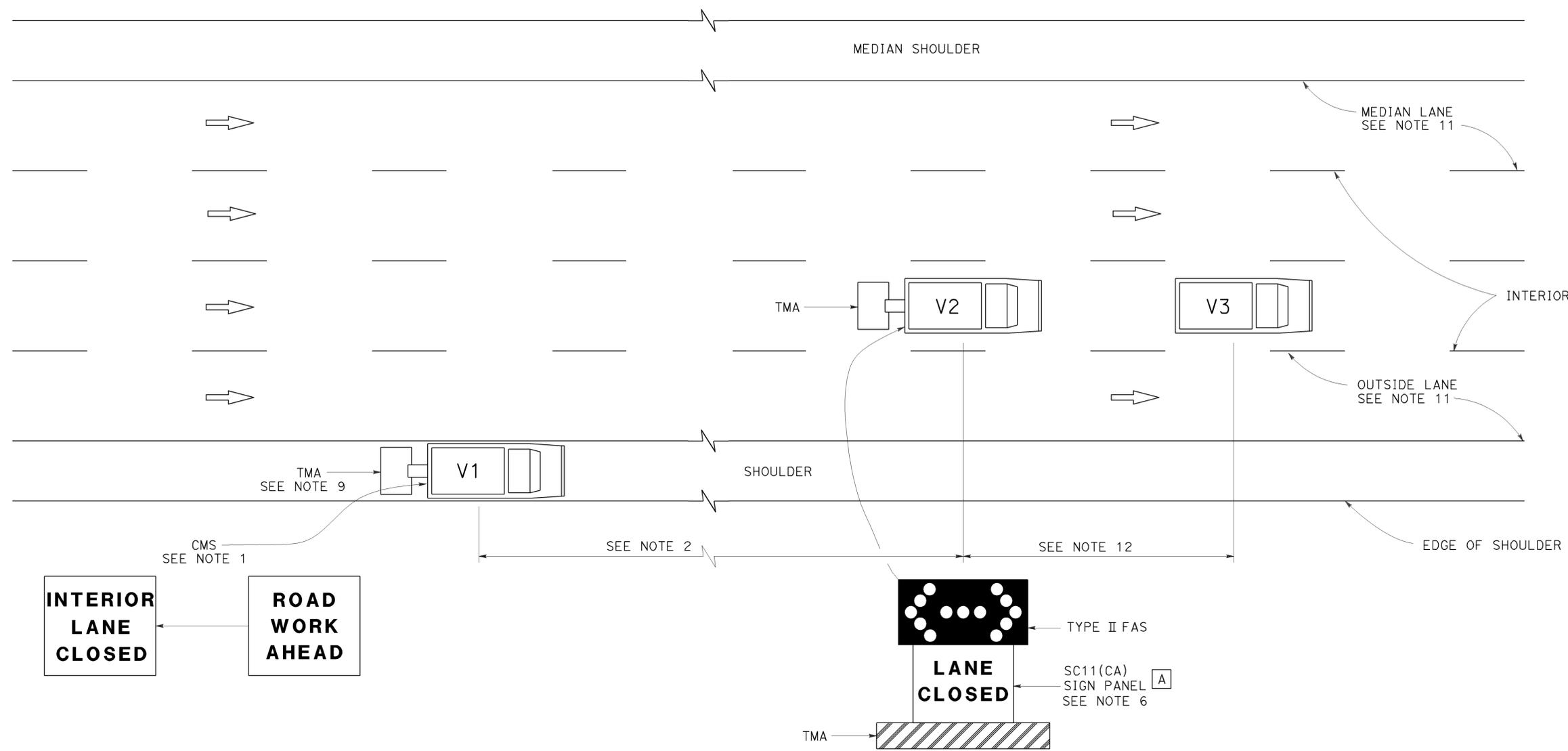
2010 REVISED STANDARD PLAN RSP T15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Sac	5,50,51 80,99,191	Var	33	34

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



TO ACCOMPANY PLANS DATED 11-17-14



SIGN PANEL SIZE (Min)

A 54" x 42"

LEGEND

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

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

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

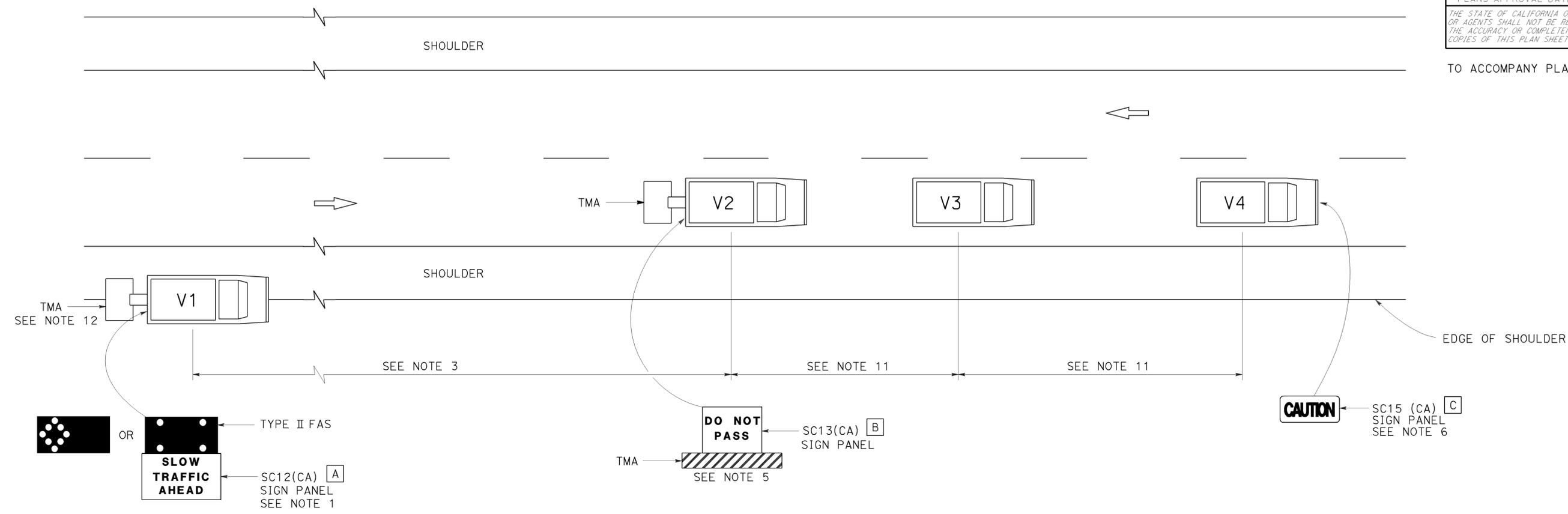
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON MULTILANE HIGHWAYS**
 NO SCALE

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

REVISED STANDARD PLAN RSP T16

2010 REVISED STANDARD PLAN RSP T16

TO ACCOMPANY PLANS DATED 11-17-14



NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.

7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- V4 SIGN VEHICLE
- TMA TRUCK-MOUNTED ATTENUATOR
- FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE
- FLASHING ARROW SIGN (FAS) IN ALTERNATING DIAMOND CAUTION

SIGN PANEL SIZE (Min)

- A 72" x 42"
- B 54" x 42"
- C 54" x 24"

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

RSP T17 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T17
 DATED MAY 20, 2011 - PAGE 245 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17