INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
3-4	PAVEMENT DELINEATION DETAILS
5-7	PAVEMENT DELINEATION QUANTITIES
8	SIGN DETAILS
9-13	SIGN QUANTITIES
14-22	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

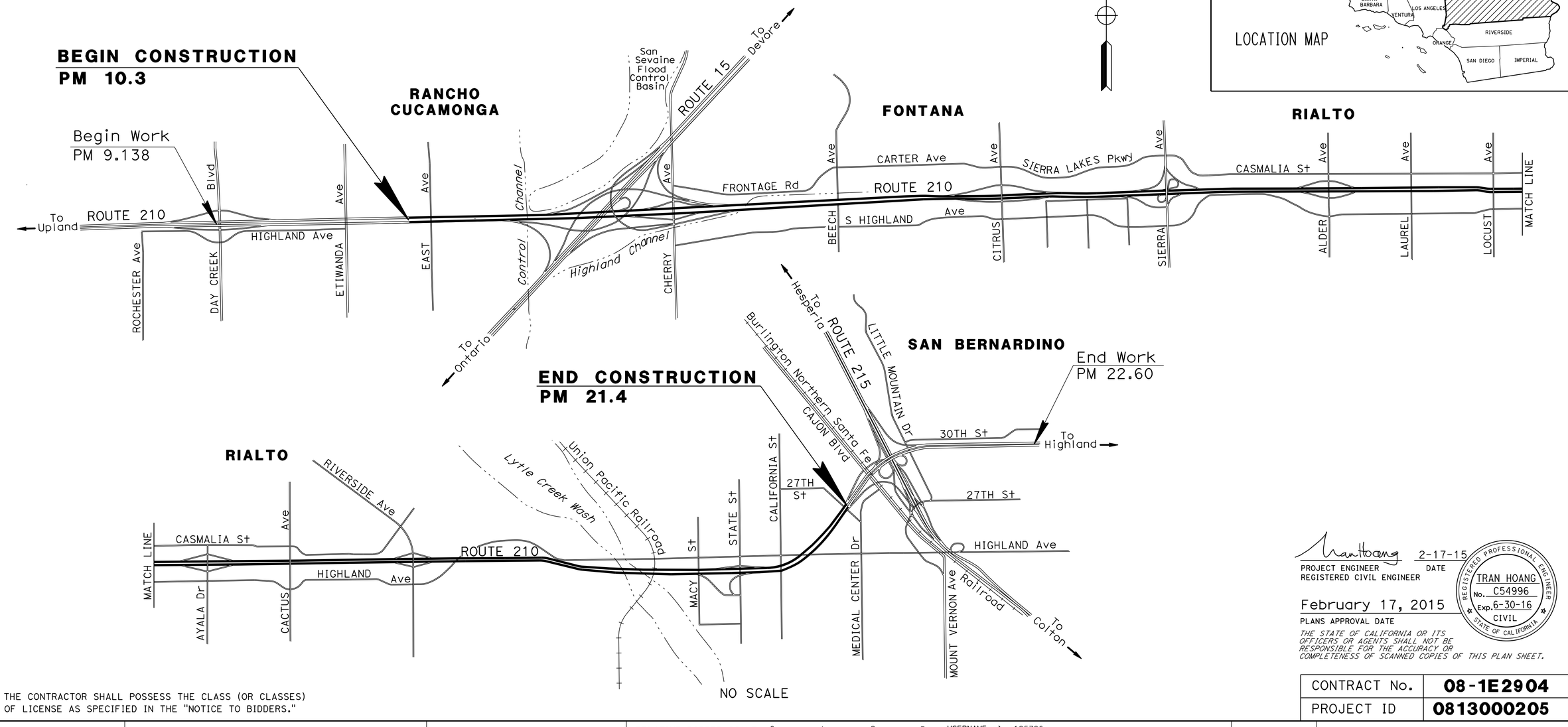
IN SAN BERNARDINO COUNTY

FROM 0.2 MILE WEST OF EAST AVENUE OVERCROSSING TO 27TH STREET UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	1	22

LOCATION MAP



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

PROJECT MANAGER: MUSTAPHA IAALI

DESIGN MANAGER: MARIO L. AMANCIO

PROJECT ENGINEER / REGISTERED CIVIL ENGINEER — DATE: 2-17-15

TRAN HOANG No. C54996 Exp. 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

February 17, 2015
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.	08-1E2904
PROJECT ID	0813000205

LAST REVISION 02-17-15

DATE PLOTTED => 09-MAR-2015
TIME PLOTTED => 1423

BORDER LAST REVISED 10/4/2013 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s125726 | DGN FILE => 0813000205ab001.dgn | UNIT 2284 | PROJECT NUMBER & PHASE 08130002051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	2	22

Tran Hoang 2-17-15
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. C54996
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

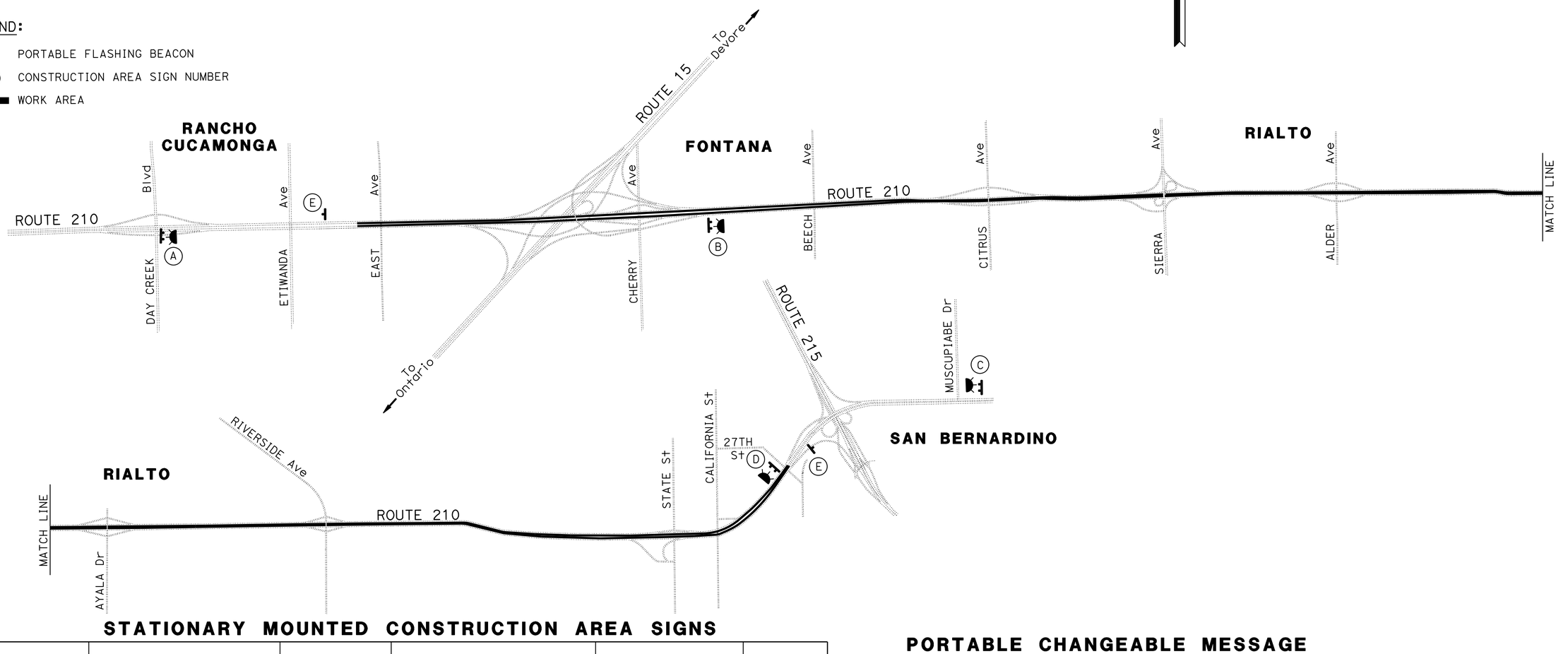
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. CONSTRUCTION AREA SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. EXACT LOCATIONS OF PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) TO BE DETERMINED BY THE ENGINEER.
3. POST HOLES FOR CONSTRUCTION AREA SIGNS SHALL BE EXCAVATED BY HAND METHODS WITHOUT THE USE OF POWERED EQUIPMENT.
4. SECTION 4216 OF THE GOVERNMENT CODE REQUIRES AN INQUIRY IDENTIFICATION. THE PERMIT FOR EXCAVATION IS VALID AFTER IDENTIFICATION IS ISSUED.
5. FOR YOUR PRE-EXCAVATION I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT TOLL FREE AT 1-800-227-2600 FIVE WORKING DAYS BEFORE DIGGING
6. USE STD PLAN RSP T14 FOR RAMP CLOSURE REQUIREMENTS AT BEECH AVE.
7. W20-1 SIGNS ON BARRICADES WILL BE IN PLACE ONLY ON ENTRANCE RAMPS/CONNECTORS WHERE THE WORK IS SCHEDULED DOWNSTREAM OF THE RAMP/CONNECTOR.

LEGEND:

- PORTABLE FLASHING BEACON
- (X) CONSTRUCTION AREA SIGN NUMBER
- WORK AREA



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A		C11	90" x 48"	ROAD CONSTRUCTION NEXT 13 MILES	2 -6" x 6"	1
B		C11	90" x 48"	ROAD CONSTRUCTION NEXT 10 MILES	2 -6" x 6"	1
C		C11	90" x 48"	ROAD CONSTRUCTION NEXT 14 MILES	2 -6" x 6"	1
D		C11	90" x 48"	ROAD CONSTRUCTION NEXT 13 MILES	2 -6" x 6"	1
E		C14	48" x 24"	END ROAD WORK	1 -4" x 6"	2
SEE NOTES	W20-1		48" x 48"	ROAD WORK AHEAD	MOUNTED ON BARRICADE	24

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

(EA)
8

PORTABLE FLASHING BEACON

(EA)
4

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: MARIO L. AMANCIO
CALCULATED-DESIGNED BY: H. SETHNA
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 09-MAR-2015
02-17-15 | TIME PLOTTED => 14:23

BORDER LAST REVISED 7/2/2010 | USERNAME => s125726 | DGN FILE => 08130002051a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2284 | PROJECT NUMBER & PHASE 08130002051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	3	22

REGISTERED CIVIL ENGINEER — DATE: 2-17-15

PLANS APPROVAL DATE: 2-17-15

REGISTERED PROFESSIONAL ENGINEER — TRAN HOANG No. C54996 Exp. 6-30-16 CIVIL — STATE OF CALIFORNIA

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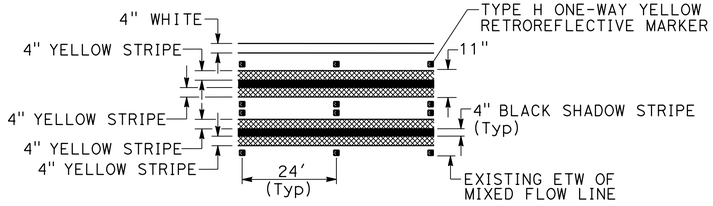
LEGEND:

- ⇨ DIRECTION OF TRAVEL
- ◇ DIAMOND SYMBOL PAVEMENT MARKING
- CAR "CAR" PAVEMENT MARKING
- POOL "POOL" PAVEMENT MARKING
- ONLY "ONLY" PAVEMENT MARKING

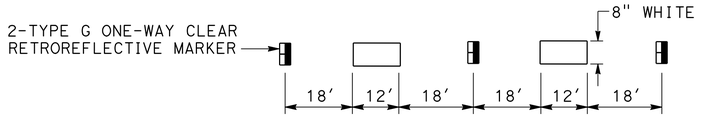


EXISTING DETAIL M-9 WITH BUFFER

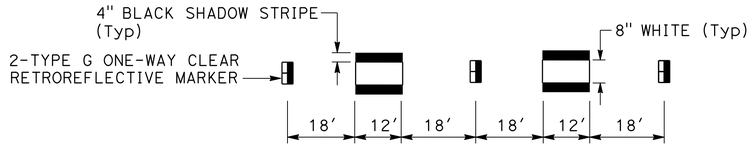
◇ CAR POOL ONLY ◇

EXISTING 'CARPOOL SET' PAVEMENT MARKING

EACH 'CARPOOL SET' INCLUDES TWO 'DIAMOND SYMBOLS' AND
ONE EACH OF 'CAR', 'POOL', & 'ONLY' PAVEMENT MARKINGS AS SHOWN.
REMOVAL Q†y FOR EACH 'CARPOOL SET' = 217 SF.
REMOVAL Q†y FOR EACH 'DIAMOND SYMBOL' = 39 SF.

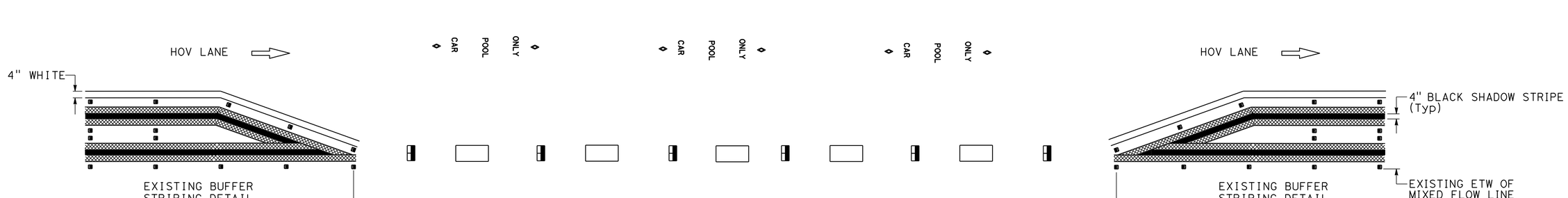


EXISTING DETAIL M-10



EXISTING DETAIL M-10 (MODIFIED)

LOCATION: EB DIRECTION FROM PM 19.6 TO PM 21.42)



DETAILS OF EXISTING PAVEMENT DELINEATION TO BE REMOVED

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MARIO L. AMANCIO

CALCULATED-DESIGNED BY: H. SETHNA
CHECKED BY: TRAN HOANG

REVISED BY | DATE REVISED

LAST REVISION: DATE PLOTTED => 09-MAR-2015
02-17-15 TIME PLOTTED => 14:23

BORDER LAST REVISED 7/2/2010

USERNAME => s125726
DGN FILE => 0813000205nb001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2284 | PROJECT NUMBER & PHASE 08130002051

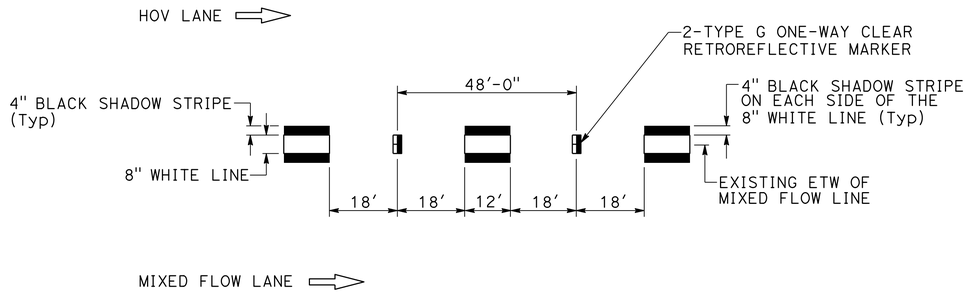
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	4	22

Tran Hoang 2-17-15
REGISTERED CIVIL ENGINEER DATE

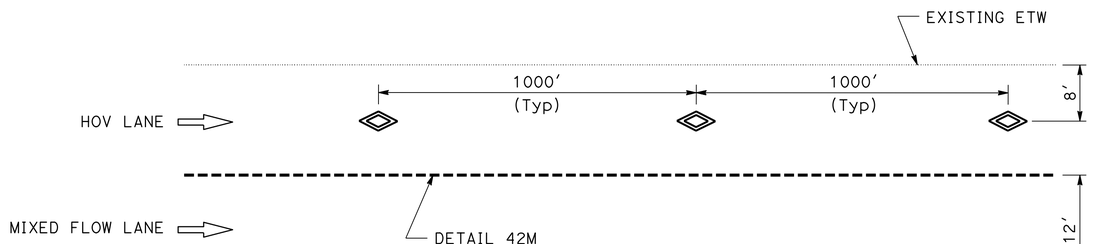
2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. C54996
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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



DETAIL 42M



DIAMOND SYMBOL SPACING

PLACE IN THE CENTER OF HOV LANE AT REGULAR SPACING AS SHOWN

NEW PAVEMENT DELINEATION TO REPLACE EXISTING

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: MARIO L. AMANCIO
CALCULATED-DESIGNED BY
CHECKED BY
H. SETHNA
TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 09-MAR-2015
02-17-15 TIME PLOTTED => 14:23

BORDER LAST REVISED 7/2/2010
USERNAME => s125726
DGN FILE => 0813000205nb002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2284
PROJECT NUMBER & PHASE 08130002051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	5	22

tranhoang 2-17-15
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. C54996
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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

PAVEMENT DELINEATION QUANTITIES

LOCATION P.M.	DIRECTION	DETAIL No. OR MARKING	REMOVE PAVEMENT MARKERS	REMOVE THERMOPLASTIC TRAFFIC STRIPE 4" YELLOW	REMOVE THERMOPLASTIC TRAFFIC STRIPE 4" WHITE	REMOVE THERMOPLASTIC TRAFFIC STRIPE 8" WHITE	REMOVE THERMOPLASTIC PAVEMENTMARKING	PAVEMENT MARKER RETROREFLECTIVE TYPE G	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE) 8" WHITE	THERMOPLASTIC PAVEMENT MARKING	COMMENTS
			EA	LF	LF	LF	SQFT	EA	LF	SQFT	
PM 10.28 TO 10.32	EB	M-10	11			106					
PM 10.32 TO 13.9	EB	M-9 WITH BUFFER	3155	113415	18903						
PM 13.9 TO 14.16	EB	M-10	60			687					
PM 14.16 TO 16.61	EB	M-9 WITH BUFFER	2160	77616	12936						
PM 16.61 TO 16.91	EB	M-10	69			793					
PM 16.91 TO 19.6	EB	M-9 WITH BUFFER	2372	85220	14204						
PM 19.6 TO 21.42	EB	M-10 Mod	403			9610					
PM 10.28 TO 13.61	WB	M-9 WITH BUFFER	2935	105495	17583						
PM 13.61 TO 13.86	WB	M-10	57			660					
PM 13.86 TO 14.58	WB	M-9 WITH BUFFER	638	22810	3802						
PM 14.58 TO 14.86	WB	M-10	64			740					
PM 14.86 TO 15.78	WB	M-9 WITH BUFFER	814	29146	4858						
PM 15.78 TO 16.19	WB	M-10	93			1083					
PM 16.19 TO 18.02	WB	M-9 WITH BUFFER	1615	57975	9663						
PM 18.02 TO 18.26	WB	M-10	55			634					
PM 18.26 TO 19.38	WB	M-9 WITH BUFFER	990	35482	5914						
PM 19.38 TO 19.62	WB	M-10	55			634					
PM 19.62 TO 21.23	WB	M-9 WITH BUFFER	1421	51005	8501						
PM 21.23 TO 21.42	WB	M-10	44			502					
10.28	EB	CARPOOL SET					217				
10.66	EB	DIAMOND MARKING					39				
10.94	EB	CARPOOL SET					217				
11.59	EB	CARPOOL SET					217				
12.25	EB	CARPOOL SET					217				
12.91	EB	CARPOOL SET					217				
13.91	EB	CARPOOL SET					217				
13.98	EB	CARPOOL SET					217				
14.07	EB	CARPOOL SET					217				
14.16	EB	DIAMOND MARKING					39				
14.66	EB	CARPOOL SET					217				
15.31	EB	CARPOOL SET					217				
15.95	EB	CARPOOL SET					217				
16.62	EB	CARPOOL SET					217				
SUBTOTAL			17011	578164	96364	15449	2682				
SHEET TOTAL			17011	689977			2682				

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MARIO L. AMANCIO
CALCULATED-DESIGNED BY: H. SETHNA
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

PAVEMENT DELINEATION QUANTITIES
PDQ-1

LAST REVISION 02-17-15
DATE PLOTTED => 09-MAR-2015
TIME PLOTTED => 14:23

BORDER LAST REVISED 7/2/2010
USERNAME => s125726
DGN FILE => 0813000205nc001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2284
PROJECT NUMBER & PHASE 08130002051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	6	22

tranhoang 2-17-15
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. C54996
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

LOCATION P.M.	DIRECTION	DETAIL No. OR MARKING	REMOVE PAVEMENT MARKERS	REMOVE THERMOPLASTIC TRAFFIC STRIPE 4" YELLOW	REMOVE THERMOPLASTIC TRAFFIC STRIPE 4" WHITE	REMOVE THERMOPLASTIC TRAFFIC STRIPE 8" WHITE	REMOVE THERMOPLASTIC PAVEMENTMARKING	PAVEMENT MARKER RETROREFLECTIVE TYPE G	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE) 8" WHITE	THERMOPLASTIC PAVEMENT MARKING	COMMENTS
			EA	LF	LF	LF	SQFT	EA	LF	SQFT	
16.69	EB	CARPOOL SET					217				
16.77	EB	CARPOOL SET					217				
16.86	EB	CARPOOL SET					217				
17.39	EB	CARPOOL SET					217				
18.04	EB	CARPOOL SET					217				
18.69	EB	CARPOOL SET					217				
19.61	EB	CARPOOL SET					217				
19.69	EB	CARPOOL SET					217				
19.77	EB	CARPOOL SET					217				
20.27	EB	CARPOOL SET					217				
20.91	EB	CARPOOL SET					217				
10.92	WB	CARPOOL SET					217				
11.59	WB	CARPOOL SET					217				
12.14	WB	DIAMOND MARKING					39				
12.24	WB	CARPOOL SET					217				
13.57	WB	CARPOOL SET					217				
13.63	WB	CARPOOL SET					217				
13.72	WB	CARPOOL SET					217				
13.81	WB	CARPOOL SET					217				
13.91	WB	CARPOOL SET					217				
14.57	WB	CARPOOL SET					217				
14.65	WB	CARPOOL SET					217				
14.73	WB	CARPOOL SET					217				
14.81	WB	CARPOOL SET					217				
15.15	WB	CARPOOL SET					217				
15.8	WB	CARPOOL SET					217				
15.88	WB	CARPOOL SET					217				
15.98	WB	CARPOOL SET					217				
16.06	WB	CARPOOL SET					217				
16.14	WB	CARPOOL SET					217				
16.68	WB	CARPOOL SET					217				
17.41	WB	CARPOOL SET					217				
18.05	WB	CARPOOL SET					217				
SUBTOTAL							6983				
SHEET TOTAL							6983				

PAVEMENT DELINEATION QUANTITIES
PDQ-2

CALCULATED-DESIGNED BY: H. SETHNA
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED
FUNCTIONAL SUPERVISOR: MARIO L. AMANCIO
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

LAST REVISION 02-17-15
DATE PLOTTED => 09-MAR-2015
TIME PLOTTED => 14:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	7	22

tranhoang 2-17-15
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. C54996
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

LOCATION P.M.	DIRECTION	DETAIL No. OR MARKING	REMOVE PAVEMENT MARKERS	REMOVE THERMOPLASTIC TRAFFIC STRIPE 4" YELLOW	REMOVE THERMOPLASTIC TRAFFIC STRIPE 4" WHITE	REMOVE THERMOPLASTIC TRAFFIC STRIPE 8" WHITE	REMOVE THERMOPLASTIC PAVEMENTMARKING	PAVEMENT MARKER RETROREFLECTIVE TYPE G	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE) 8" WHITE	THERMOPLASTIC PAVEMENT MARKING	COMMENTS
			EA	LF	LF	LF	SQFT	EA	LF	SQFT	
18.13	WB	CARPOOL SET					217				
18.21	WB	CARPOOL SET					217				
18.77	WB	CARPOOL SET					217				
19.42	WB	CARPOOL SET					217				
19.49	WB	CARPOOL SET					217				
19.57	WB	CARPOOL SET					217				
20.12	WB	CARPOOL SET					217				
21.27	WB	CARPOOL SET					217				
21.34	WB	CARPOOL SET					217				
21.41	WB	CARPOOL SET					217				
P.M 10.28 to 21.42	EB	42M						2453	58820		
P.M 10.28 to 21.42	WB	42M						2453	58820		
P.M 10.28 to 21.42	EB	DIAMOND MARKING								648	
P.M 10.28 to 21.42	WB	DIAMOND MARKING								648	
SUBTOTAL							2170	4906	117640	1296	
SHEET TOTAL							2170	4906	117640	1296	
TOTAL			17011	689977			11835	4906	117640	1296	

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY: H. SETHNA | CHECKED BY: TRAN HOANG
FUNCTIONAL SUPERVISOR: MARIO L. AMANCIO
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

PAVEMENT DELINEATION QUANTITIES
PDQ-3

LAST REVISION 02-17-15 | DATE PLOTTED => 09-MAR-2015 | TIME PLOTTED => 14:23

BORDER LAST REVISED 7/2/2010 | USERNAME => s125726 | DGN FILE => 0813000205nc003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2284 | PROJECT NUMBER & PHASE 08130002051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	8	22

tranhoang 2-17-15
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. C54996
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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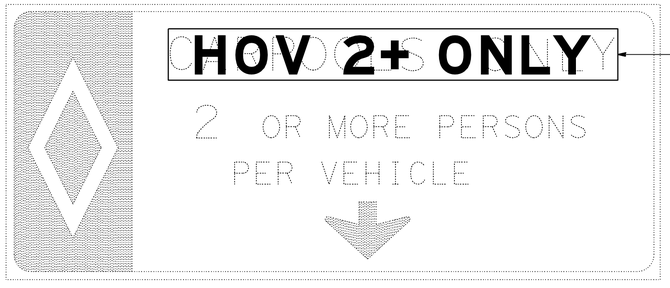
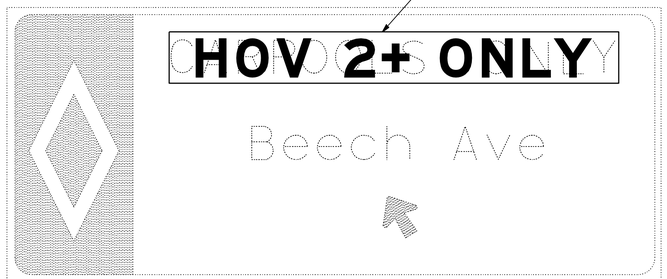
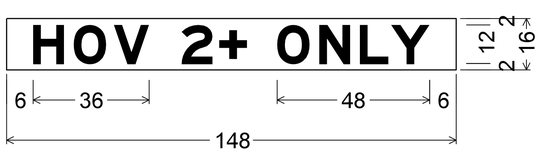
INSTALL SIGN OVERLAY
OVER EXISTING 'CARPOOLS ONLY'



EXISTING R87-1 (CA) OH SIGN PANELS
SEE SQ SHEETS FOR LOCATIONS

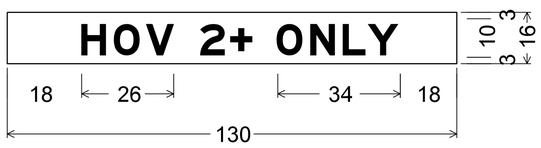


EXISTING G85 Modified (CA) OH SIGN PANELS
SEE SQ SHEETS FOR LOCATIONS



No border, Black Legend on White Retroreflective Background;
[HOV 2+ ONLY] 12" E Mod;

SIGN OVERLAY DETAILS ON 'CARPOOLS ONLY' OVERHEAD SIGNS



No border, Black Legend on White Retroreflective Background;
[HOV 2+ ONLY] 10" D Mod;

SIGN OVERLAY DETAILS ON 'CARPOOLS ONLY' OVERHEAD SIGNS

SIGN DETAILS

NO SCALE

SD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: MARIO L. AMANCIO
CALCULATED-DESIGNED BY: H. SETHNA
CHECKED BY: TRAN HOANG
REVISED BY
DATE REVISED

LAST REVISION 02-17-15
DATE PLOTTED => 09-MAR-2015
TIME PLOTTED => 14:23

BORDER LAST REVISED 7/2/2010
USERNAME => s125726
DGN FILE => 0813000205ob001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2284
PROJECT NUMBER & PHASE 08130002051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	9	22

Tran Hoang 2-17-15
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. C54996
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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

ROADSIDE AND OVERHEAD SIGN QUANTITIES

LOCATION (P.M.)	DIRECTION	SIGN CODE		SIGN PANEL SIZE	REMOVE ROADSIDE SIGN	REMOVE ROADSIDE SIGN PANEL	INSTALL SIGN OVERLAY	INSTALL SIGN PANEL ON EXISTING POST	REMARKS
		FEDERAL	CALIFORNIA	L X D	EA	EA	SQFT	EA	
12.49	EB		G85-9 (CA)	130 x 16			14.4		Beech Ave WITH DIAGONAL ARROW
13.35	WB		G85-9 (CA)	130 x 16			14.4		Beech Ave WITH DIAGONAL ARROW
13.37	EB/WB				1				Post Only
13.51	WB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
13.51	WB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
13.65	WB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
13.65	WB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
13.69	EB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
13.69	EB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
13.74	EB		G86 (CA) Special			1			Sierra Alder NEXT EXIT
13.74	EB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
13.74	WB		SR50-2 (CA)			1			HOV VIOLATION $401 MINIMUM FINE
13.74	WB		SR50-2 (CA)	36 x 78				1	HOV VIOLATION $481 MINIMUM FINE
13.85	WB		R87 (CA)	148 x 16			16.4		CARPOOLS ONLY 2 OR MORE PERSONS PER VEH
14.09	WB		G85-8 (CA)			1			ROUTE 15 Cherry Ave WITH DIAGONAL ARROW
14.09	WB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
14.19	EB		SR50-2 (CA)			1			HOV VIOLATION $401 MINIMUM FINE
14.19	EB		SR50-2 (CA)	36 x 78				1	HOV VIOLATION $481 MINIMUM FINE
14.19	WB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
14.19	WB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
14.37	EB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
14.37	EB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
14.47	WB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
14.47	WB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
14.81	WB		R87 (CA)	148 x 16			16.4		CARPOOLS ONLY 2 OR MORE PERSONS PER VEH
14.84	EB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
14.84	EB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
14.85	WB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
14.85	WB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
14.99	EB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
14.99	EB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
15.15	WB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
15.15	WB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
15.31	WB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
15.31	WB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
15.48	EB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
15.48	EB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
15.81	WB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
15.81	WB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
16.15	EB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
SHEET TOTAL					1	18	61.6	17	

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED
H. SETHNA
TRAN HOANG
FUNCTIONAL SUPERVISOR
MARIO L. AMANCIO
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

SIGN QUANTITIES
SQ-1

LAST REVISION 02-17-15
DATE PLOTTED => 09-MAR-2015
TIME PLOTTED => 14:23

BORDER LAST REVISED 7/2/2010
USERNAME => s125726
DGN FILE => 0813000205od001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2284
PROJECT NUMBER & PHASE 08130002051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	10	22

REGISTERED CIVIL ENGINEER — DATE 2-17-15

PLANS APPROVAL DATE 2-17-15

REGISTERED PROFESSIONAL ENGINEER — TRAN HOANG No. C54996 Exp. 6-30-16 CIVIL — STATE OF CALIFORNIA

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ROADSIDE AND OVERHEAD SIGN QUANTITIES

LOCATION (P.M.)	DIRECTION	SIGN CODE		SIGN PANEL SIZE	REMOVE ROADSIDE SIGN	REMOVE ROADSIDE SIGN PANEL	INSTALL SIGN OVERLAY	INSTALL SIGN PANEL ON EXISTING POST	REMARKS
		FEDERAL	CALIFORNIA	L X D	EA	EA	SQFT	EA	
16.15	EB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
16.15	WB		SR50-2 (CA)			1			HOV VIOLATION $401 MINIMUM FINE
16.15	WB		SR50-2 (CA)	36 x 78				1	HOV VIOLATION $481 MINIMUM FINE
16.18	WB		R87 (CA)	148 x 16			16.4		CARPOOLS ONLY 2 OR MORE PERSONS PER VEH
16.18	WB		G85-8 (CA)			1			Sierra Ave WITH DIAGONAL ARROW
16.18	WB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
16.29	EB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
16.29	EB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
16.37	EB		G86 (CA) Special			1			Ayala Drive Riverside Ave NEXT EXIT
16.37	EB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
16.46	WB		G86 (CA) Special			1			Sierra Ave NEXT EXIT
16.46	WB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
16.61	EB		R87 (CA)	148 x 16			16.4		CARPOOLS ONLY 2 OR MORE PERSONS PER VEH
16.61	EB		G86 (CA) Special			1			Ayala Drive Riverside Ave WITH DIAGONAL ARROW
16.61	EB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
16.69	WB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
16.69	WB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
16.72	EB		SR50-2 (CA)			1			HOV VIOLATION $401 MINIMUM FINE
16.72	EB		SR50-2 (CA)	36 x 78				1	HOV VIOLATION $481 MINIMUM FINE
16.82	WB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
16.82	WB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
16.89	EB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
16.89	EB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
17.05	EB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
17.05	EB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
17.37	EB/WB				1				Post Only
17.53	EB/WB				1				Post Only
17.86	EB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
17.86	EB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
17.86	WB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
17.86	WB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
18.04	EB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
18.04	EB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
18.04	WB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
18.04	WB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
18.14	WB		SR50-2 (CA)			1			HOV VIOLATION $401 MINIMUM FINE
18.14	WB		SR50-2 (CA)	36 x 78				1	HOV VIOLATION $481 MINIMUM FINE
18.25	WB		R87 (CA)	148 x 16			16.4		CARPOOLS ONLY 2 OR MORE PERSONS PER VEH
18.98	WB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
18.98	WB		R91A(CA)			1			MOTORCYCLES OK
SHEET TOTAL					2	18	49.2	17	

REVISED BY | DATE REVISED

H. SETHNA | TRAN HOANG

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: MARIO L. AMANCIO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

SIGN QUANTITIES
SQ-2

LAST REVISION DATE PLOTTED => 09-MAR-2015
02-17-15 TIME PLOTTED => 14:23

BORDER LAST REVISED 7/2/2010

USERNAME => s125726
DGN FILE => 0813000205od002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2284

PROJECT NUMBER & PHASE 08130002051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	11	22

tranhoang 2-17-15
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. C54996
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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ROADSIDE AND OVERHEAD SIGN QUANTITIES

LOCATION (P.M.)	DIRECTION	SIGN CODE		SIGN PANEL SIZE	REMOVE ROADSIDE SIGN	REMOVE ROADSIDE SIGN PANEL	INSTALL SIGN OVERLAY	INSTALL SIGN PANEL ON EXISTING POST	REMARKS
		FEDERAL	CALIFORNIA	L X D	EA	EA	SQFT	EA	
18.98	WB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
19.29	WB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
19.29	WB		R1A(CA)			1			MOTORCYCLES OK
19.29	WB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
19.37	EB		G86 (CA) Special			1			State St/Univ Pkwy NEXT EXIT
19.37	EB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
19.45	WB		SR50-2 (CA)			1			HOV VIOLATION $401 MINIMUM FINE
19.45	WB		SR50-2 (CA)	36 x 78				1	HOV VIOLATION $481 MINIMUM FINE
19.61	EB		R87 (CA)	148 x 16			16.4		CARPOOLS ONLY 2 OR MORE PERSONS PER VEH
19.62	WB		R87 (CA)	148 x 16			16.4		CARPOOLS ONLY 2 OR MORE PERSONS PER VEH
19.72	EB		SR50-2 (CA)			1			HOV VIOLATION $401 MINIMUM FINE
19.72	EB		SR50-2 (CA)	36 x 78				1	HOV VIOLATION $481 MINIMUM FINE
19.85	EB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
19.85	EB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
19.86	WB		G86 (CA) Special			1			Riverside Ave NEXT EXIT
19.86	WB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
19.99	EB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
19.99	EB		R1A(CA)			1			MOTORCYCLES OK
19.99	EB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
20.32	EB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
20.32	EB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
20.85	EB		R84-2 (CA)			1			CARPOOL LANE ENDS ½ MILE
21.12	WB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
21.12	WB		R93-2(CA)	30 x 72				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
21.19	WB		R86-2 (CA)			1			LEFT LANE CARPOOLS ONLY
21.19	WB		R86-4 (CA)	36 x 66				1	LEFT LANE HOV 2+ ONLY
21.42	WB		R87 (CA)	148 x 16			16.4		CARPOOLS ONLY 2 OR MORE PERSONS PER VEH
21.42	WB		R93-2(CA)			1			CARPOOL IS 2 OR MORE PERSONS PER VEHICLE
21.42	WB		R93-2(CA)	36 x 84				1	HOV 2+ IS 2 OR MORE PERSONS PER VEHICLE
SHEET TOTAL						14	49.2	12	
TOTAL					3	50	160.0	46	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MARIO L. AMANCIO

CALCULATED-DESIGNED BY: H. SETHNA
CHECKED BY: TRAN HOANG

REVISED BY
DATE REVISED

SIGN QUANTITIES
SQ-3

LAST REVISION DATE PLOTTED => 09-MAR-2015
02-17-15 TIME PLOTTED => 14:23

BORDER LAST REVISED 7/2/2010

USERNAME => s125726
DGN FILE => 0813000205od003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2284

PROJECT NUMBER & PHASE 08130002051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	12	22

tranhoang 2-17-15
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TRAN HOANG
No. C54996
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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ROADSIDE AND OVERHEAD SIGN PANEL QUANTITIES

LOCATION P.M.	DIRECTION	SIGN CODE		(L x D)	SINGLE FACED	BACKGROUND		LEGEND		PROTECTIVE OVERLAY	FURNISH SINGLE SHEET ALUMINUM SIGN		REMARKS
						SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE		0.063 INCH - UNFRAMED	0.080 INCH - UNFRAMED	
		FEDERAL	CALIFORNIA	INCHES						PREMIUM	SQFT	SQFT	
12.49	EB		G85-9 (CA)	130 x 16	X	WHITE	VIII	BLACK	-	X	14.4		NO BORDER
13.35	WB		G85-9 (CA)	130 x 16	X	WHITE	VIII	BLACK	-	X	14.4		NO BORDER
13.51	WB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
13.65	WB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
13.69	EB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
13.74	EB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
13.74	WB		SR50-2 (CA)	36 x 78	X	WHITE	VIII	BLACK	-	X		19.5	
13.85	WB		R87 (CA)	148 x 16	X	WHITE	VIII	BLACK	-	X	16.4		NO BORDER
14.09	WB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
14.19	EB		SR50-2 (CA)	36 x 78	X	WHITE	VIII	BLACK	-	X		19.5	
14.19	WB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
14.37	EB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
14.47	WB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
14.81	WB		R87 (CA)	148 x 16	X	WHITE	VIII	BLACK	-	X	16.4		NO BORDER
14.84	EB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
14.85	WB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
14.99	EB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
15.15	WB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
15.31	WB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
15.48	EB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
15.81	WB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
16.15	EB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
16.15	WB		SR50-2 (CA)	36 x 78	X	WHITE	VIII	BLACK	-	X		19.5	
16.18	WB		R87 (CA)	148 x 16	X	WHITE	VIII	BLACK	-	X	16.4		NO BORDER
16.18	WB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
16.29	EB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
16.37	EB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
16.46	WB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
16.61	EB		R87 (CA)	148 x 16	X	WHITE	VIII	BLACK	-	X	16.4		NO BORDER
16.61	EB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
16.69	WB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
16.72	EB		SR50-2 (CA)	36 x 78	X	WHITE	VIII	BLACK	-	X		19.5	
16.82	WB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
16.89	EB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
17.05	EB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
17.86	EB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
17.86	WB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
18.04	EB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
18.04	WB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
18.14	WB		SR50-2 (CA)	36 x 78	X	WHITE	VIII	BLACK	-	X		19.5	
SHEET TOTAL											94.4	630.0	

SIGN QUANTITIES
SQ-4

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY

H. SETHNA
TRAN HOANG

FUNCTIONAL SUPERVISOR
MARIO L. AMANCIO

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

LAST REVISION 02-17-15
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BORDER LAST REVISED 7/2/2010

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DGN FILE => 0813000205od004.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2284

PROJECT NUMBER & PHASE 08130002051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	13	22

tranhoang 2-17-15
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
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ROADSIDE AND OVERHEAD SIGN PANEL QUANTITIES

LOCATION P.M.	DIRECTION	SIGN CODE		(L x D)	SINGLE FACED	BACKGROUND		LEGEND		PROTECTIVE OVERLAY	FURNISH SINGLE SHEET ALUMINUM SIGN		REMARKS
						SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE		0.063 INCH - UNFRAMED	0.080 INCH - UNFRAMED	
		FEDERAL	CALIFORNIA	INCHES						PREMIUM	SQFT	SQFT	
18.25	WB		R87 (CA)	148 x 16	X	WHITE	VIII	BLACK	-	X	16.4		NO BORDER
18.98	WB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
19.29	WB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
19.37	EB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
19.45	WB		SR50-2 (CA)	36 x 78	X	WHITE	VIII	BLACK	-	X		19.5	
19.61	EB		R87 (CA)	148 x 16	X	WHITE	VIII	BLACK	-	X	16.4		NO BORDER
19.62	WB		R87 (CA)	148 x 16	X	WHITE	VIII	BLACK	-	X	16.4		NO BORDER
19.72	EB		SR50-2 (CA)	36 x 78	X	WHITE	VIII	BLACK	-	X		19.5	
19.85	EB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
19.86	WB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
19.99	EB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
20.32	EB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
21.12	WB		R93-2(CA)	30 x 72	X	WHITE	VIII	BLACK	-	X		15.0	
21.19	WB		R86-4 (CA)	36 x 66	X	WHITE	VIII	BLACK	-	X		16.5	
21.42	WB		R87 (CA)	148 x 16	X	WHITE	VIII	BLACK	-	X	16.4		NO BORDER
21.42	WB		R93-2(CA)	36 x 84	X	WHITE	VIII	BLACK	-	X		21.0	
SHEET TOTAL											65.6	220.5	
TOTAL											160.0	850.5	

SIGN QUANTITIES
SQ-5

REVISED BY | DATE REVISED
H. SETHNA | TRAN HOANG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
MARIO L. AMANCIO
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

LAST REVISION 02-17-15 | DATE PLOTTED => 09-MAR-2015 | TIME PLOTTED => 14:23

BORDER LAST REVISED 7/2/2010
USERNAME => s125726
DGN FILE => 0813000205od005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2284
PROJECT NUMBER & PHASE 08130002051

M

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

N

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

O

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

P

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

P continued

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

Q

Qty	QUANTITY

R

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

S

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

T

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

T continued

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL

U

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

V

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

W

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

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	14	22

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 2-17-15

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	15	22

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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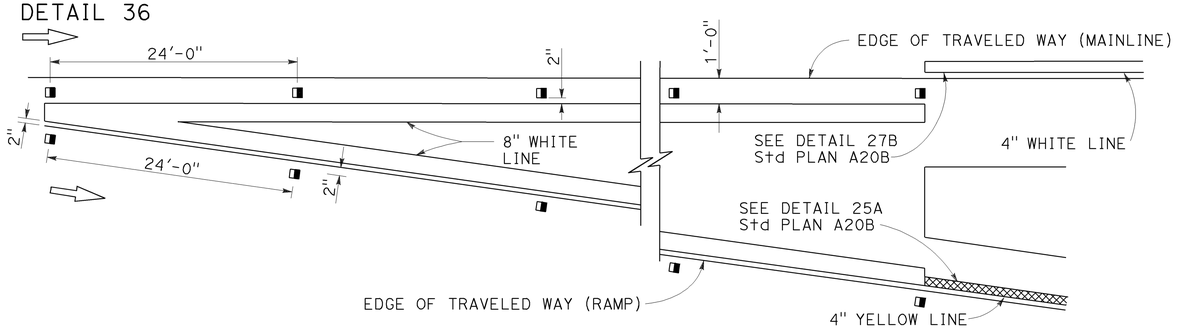
TO ACCOMPANY PLANS DATED 2-17-15

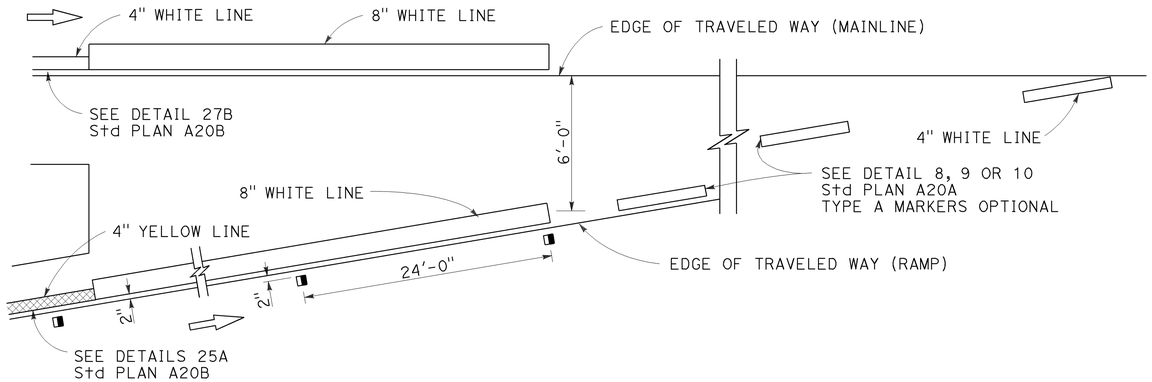
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



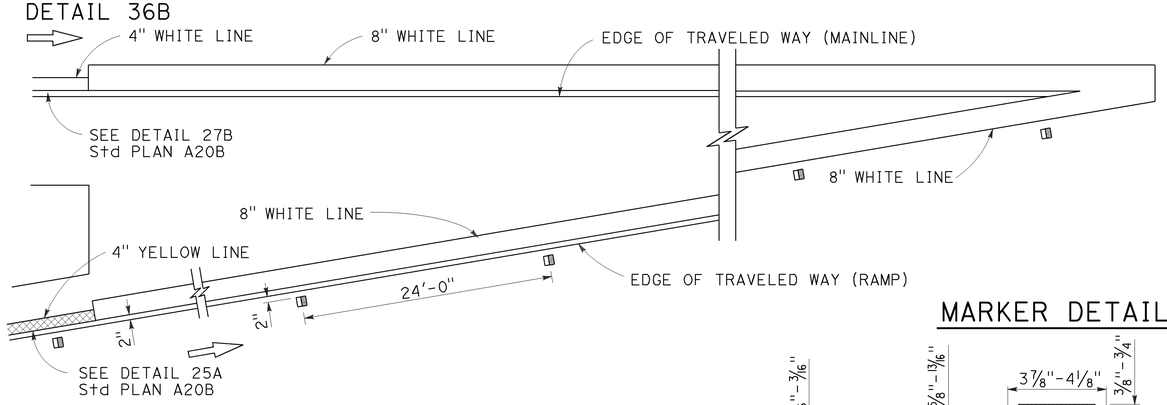
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A



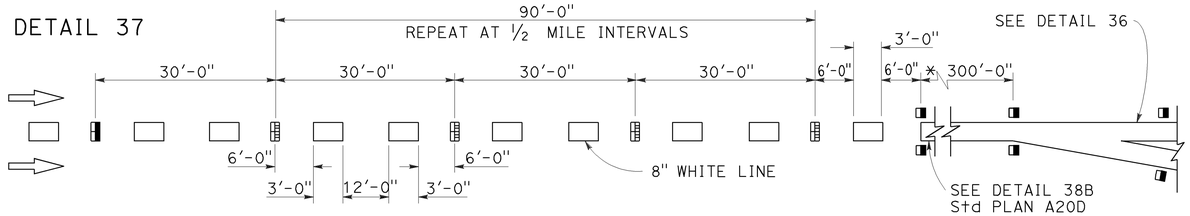
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B

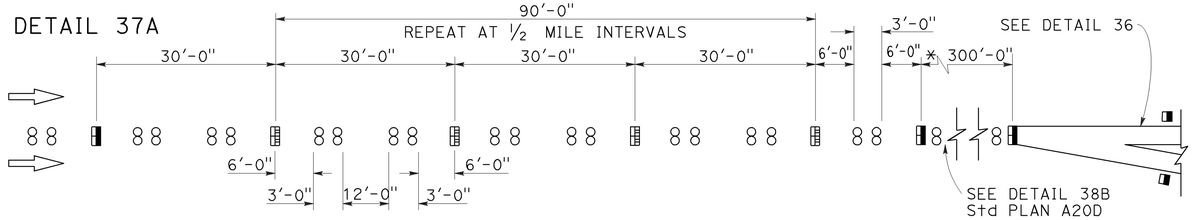


LANE DROP AT EXIT RAMPS

DETAIL 37



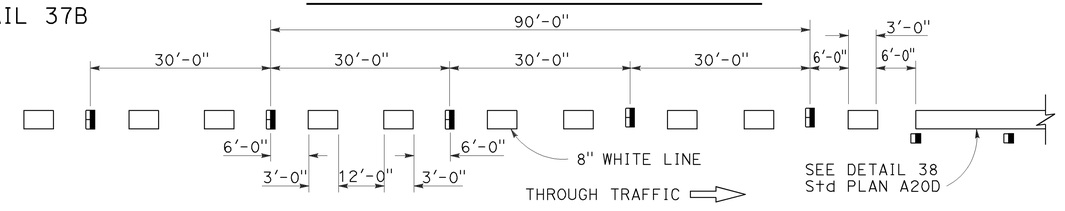
DETAIL 37A



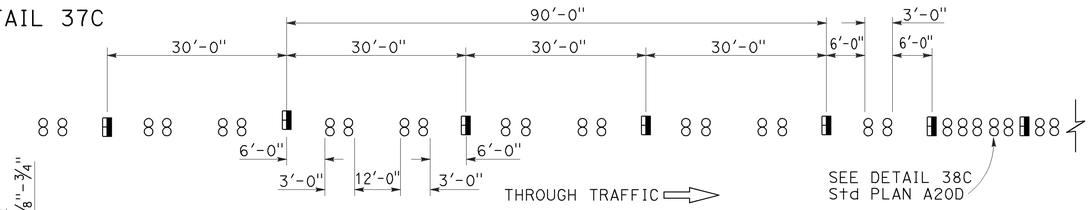
* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS

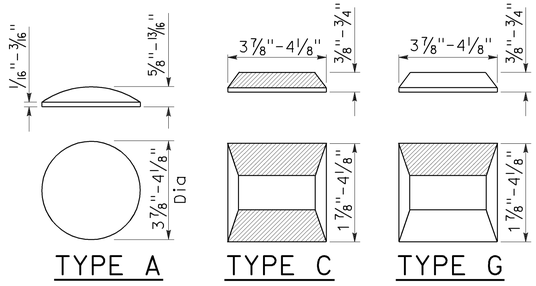
DETAIL 37B



DETAIL 37C



MARKER DETAILS



LEGEND:

MARKERS

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

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

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

4-29-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	16	22

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

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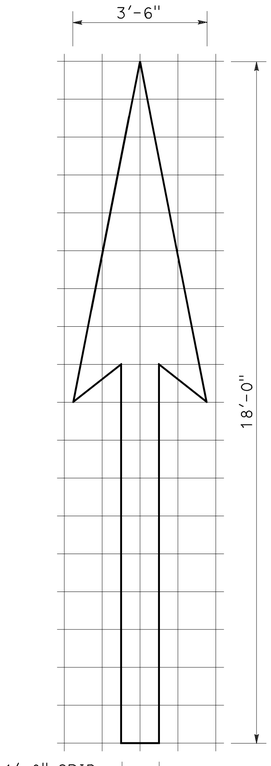
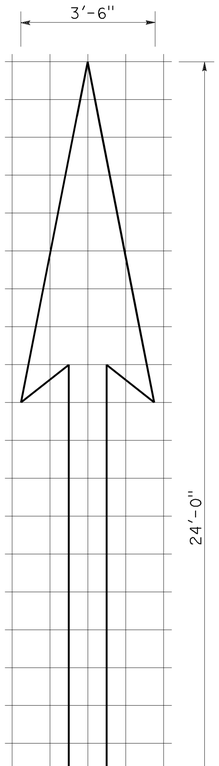
TO ACCOMPANY PLANS DATED 2-17-15

2010 REVISED STANDARD PLAN RSP A24A



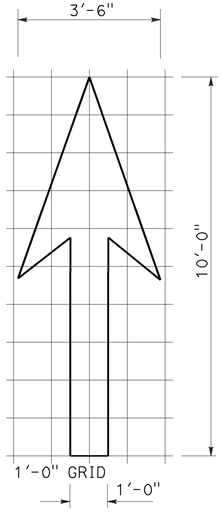
A=25 ft²

TYPE I 18'-0" ARROW



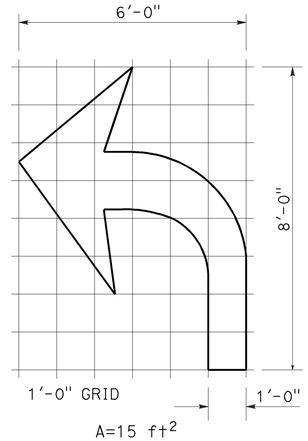
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

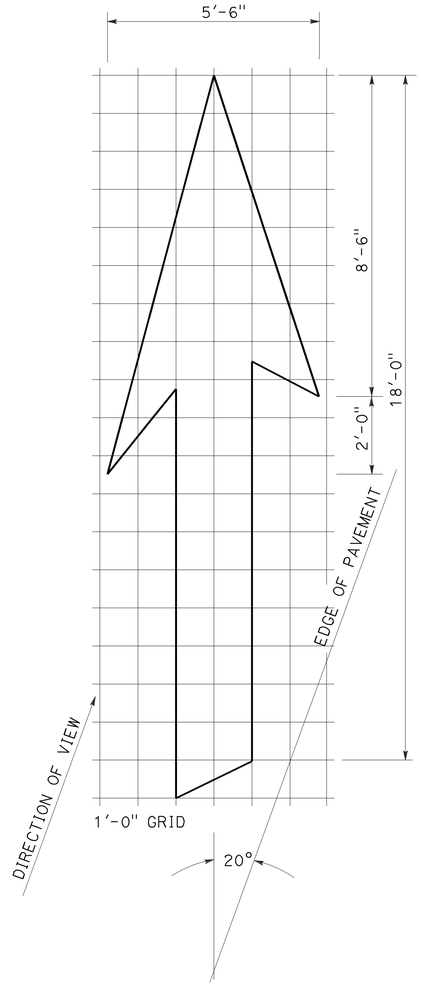
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

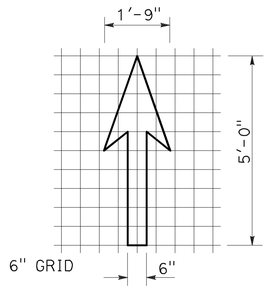
(For Type IV (R) arrow, use mirror image)



A=42 ft²

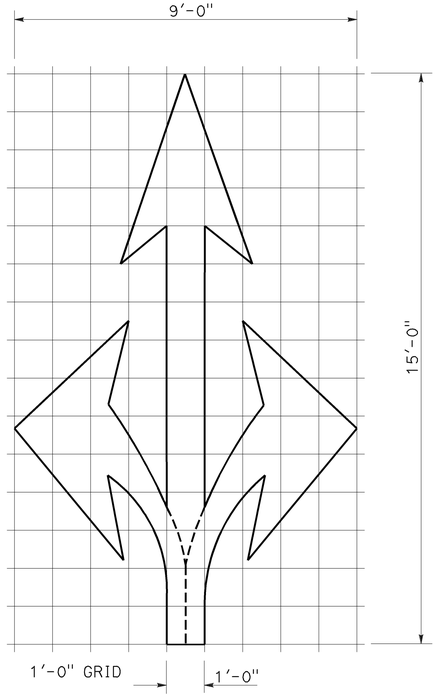
TYPE VI ARROW

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



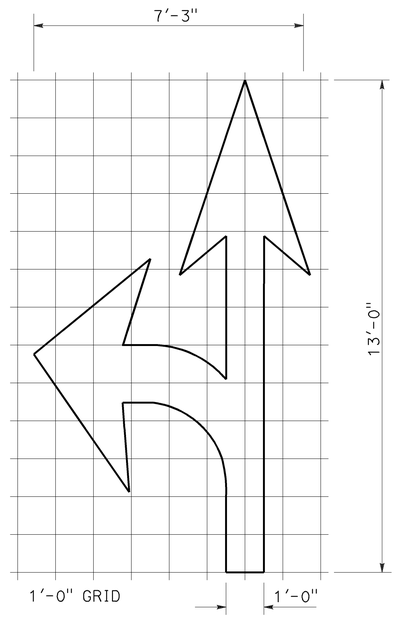
A=3.5 ft²

BIKE LANE ARROW



A=36 ft²

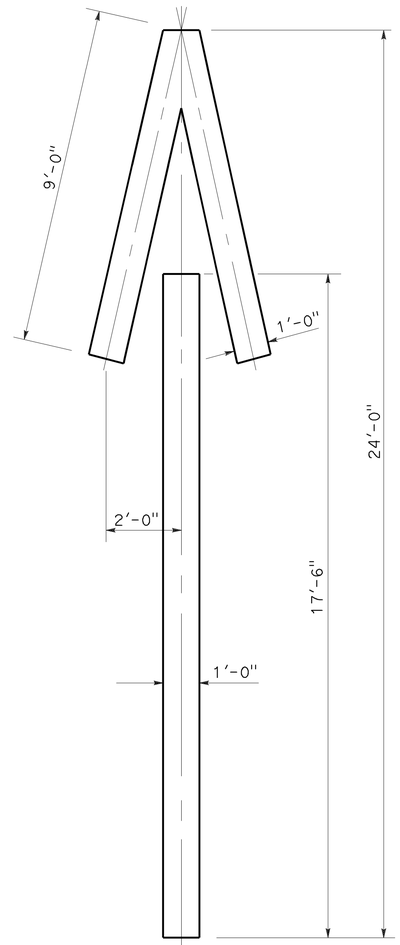
TYPE VIII ARROW



A=27 ft²

TYPE VII (L) ARROW

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



A=33 ft²

TYPE V ARROW

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

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

REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	17	22

REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

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

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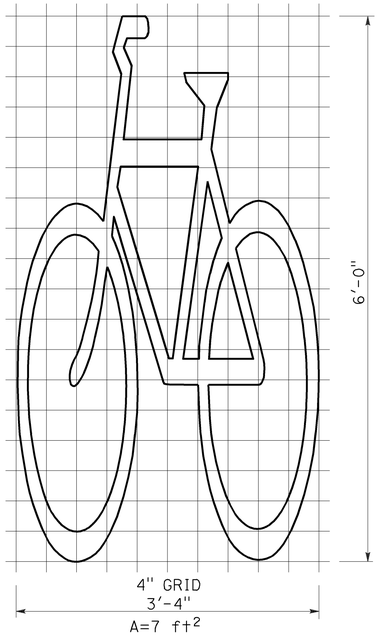
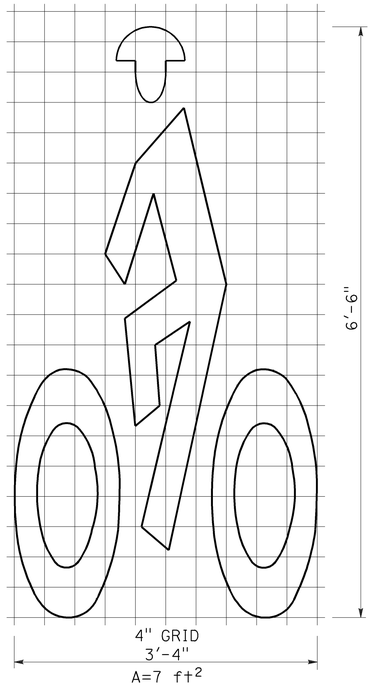
NOTE: TO ACCOMPANY PLANS DATED 2-17-15

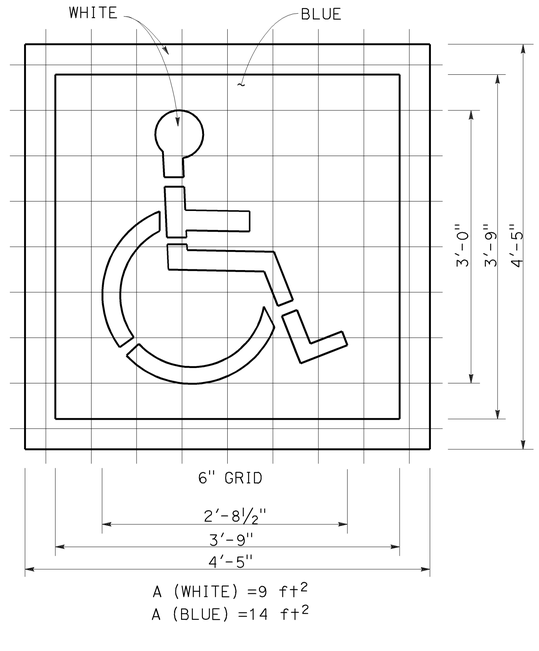
Minor variations in dimensions may be accepted by the Engineer.



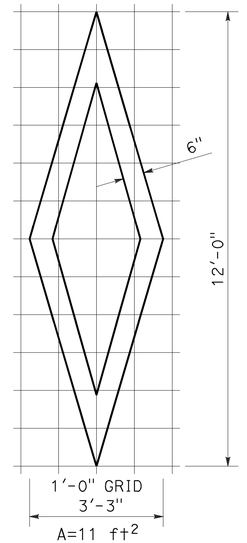
BIKE LANE SYMBOL WITHOUT PERSON



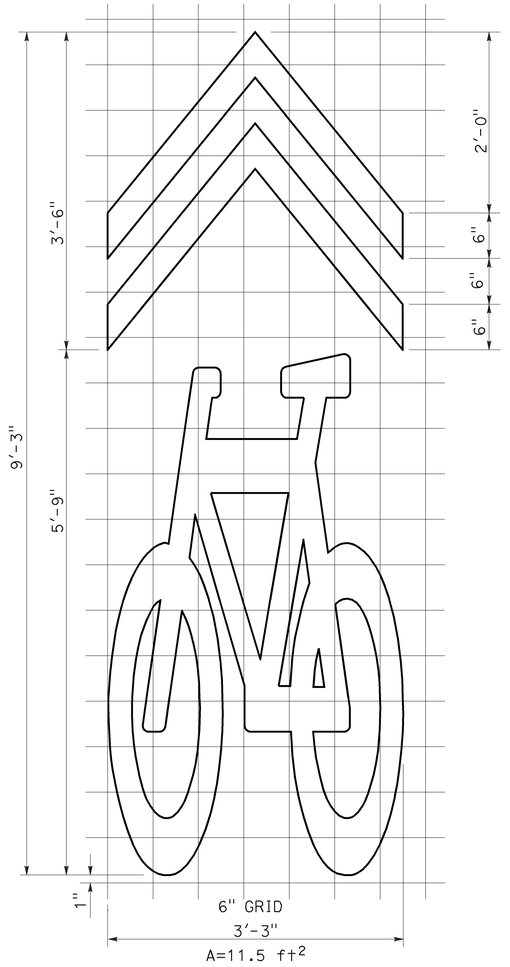
BIKE LANE SYMBOL WITH PERSON



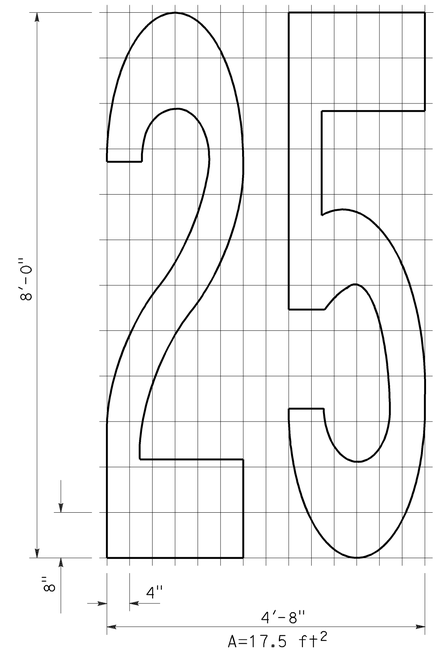
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING

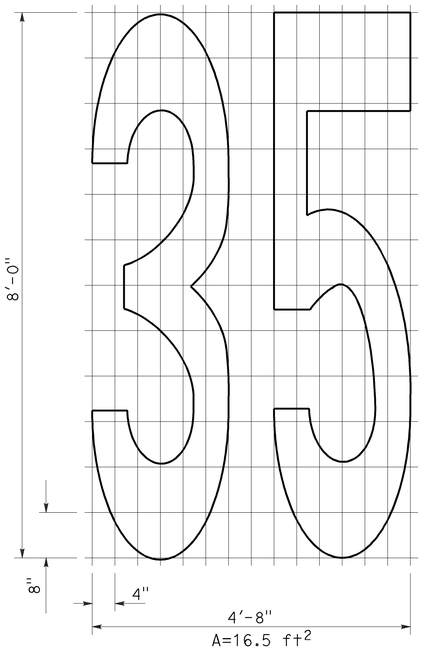


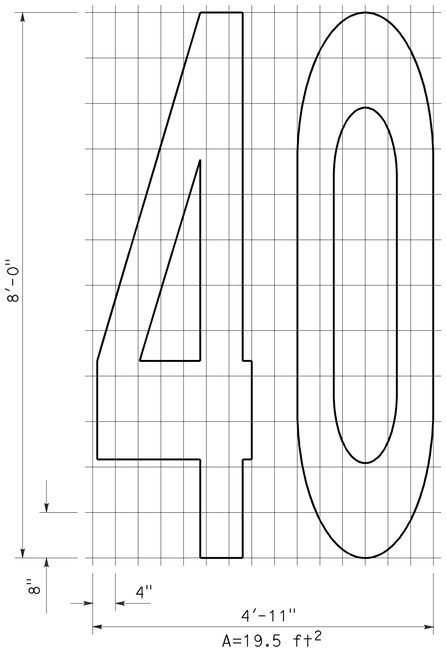
DIAMOND SYMBOL



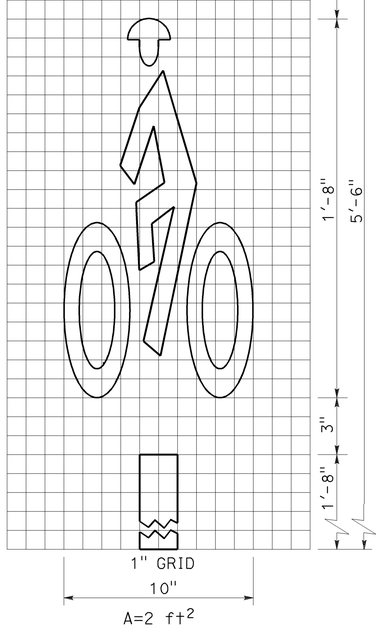
SHARED ROADWAY BICYCLE MARKING







NUMERALS



BICYCLE LOOP DETECTOR SYMBOL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

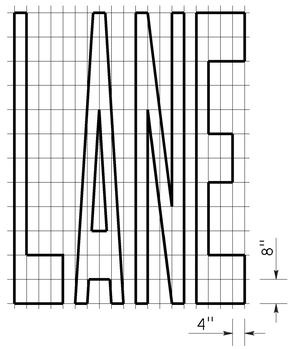
NO SCALE

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

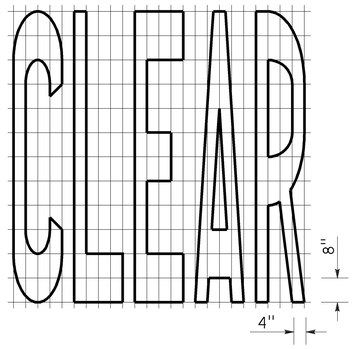
REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

6-28-12



A=24 ft²



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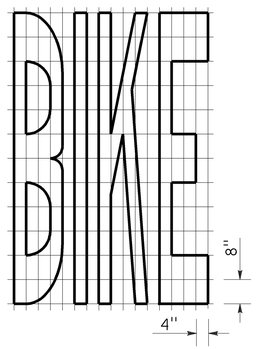

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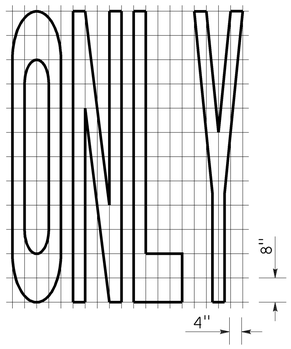

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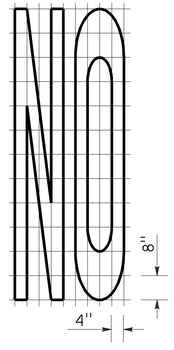

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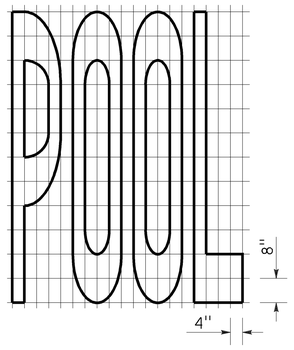

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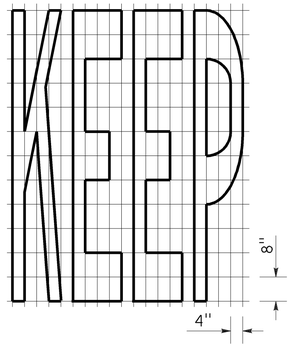

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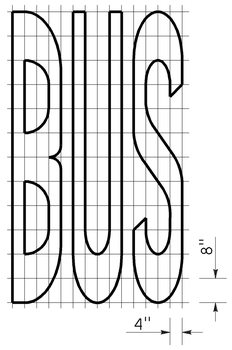

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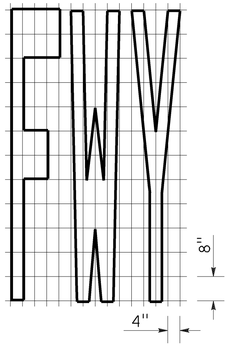

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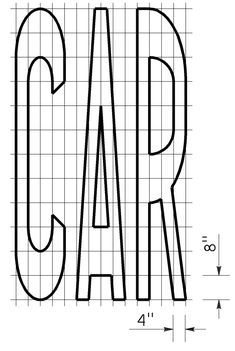


A=17 ft²

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	18	22

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

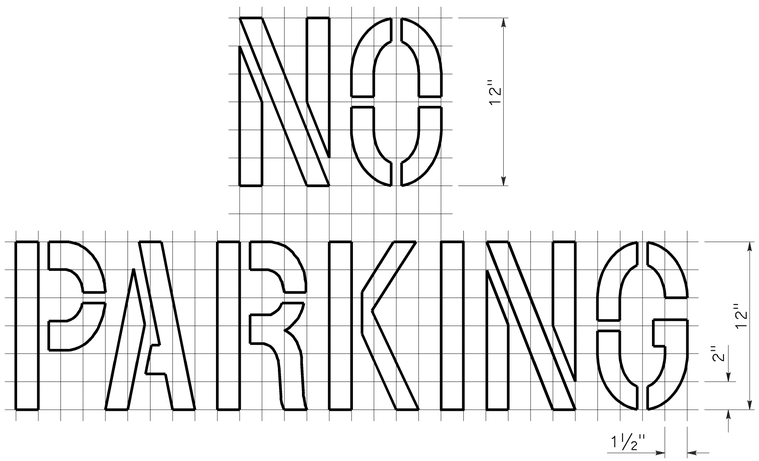
July 20, 2012
PLANS APPROVAL DATE

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

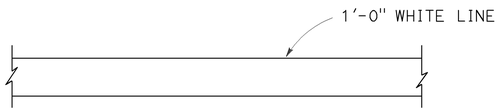
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-17-15

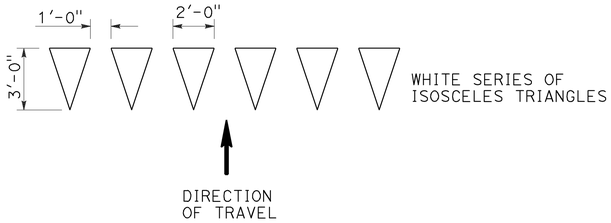
WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



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.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	19	22

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 2-17-15

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

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

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

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

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

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

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

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

** - Longitudinal buffer space or flagger station spacing

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

TABLE 3

ADVANCE WARNING SIGN SPACING

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

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

2010 REVISED STANDARD PLAN RSP T9

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

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

REVISED STANDARD PLAN RSP T9

4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	20	22

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 2-17-15

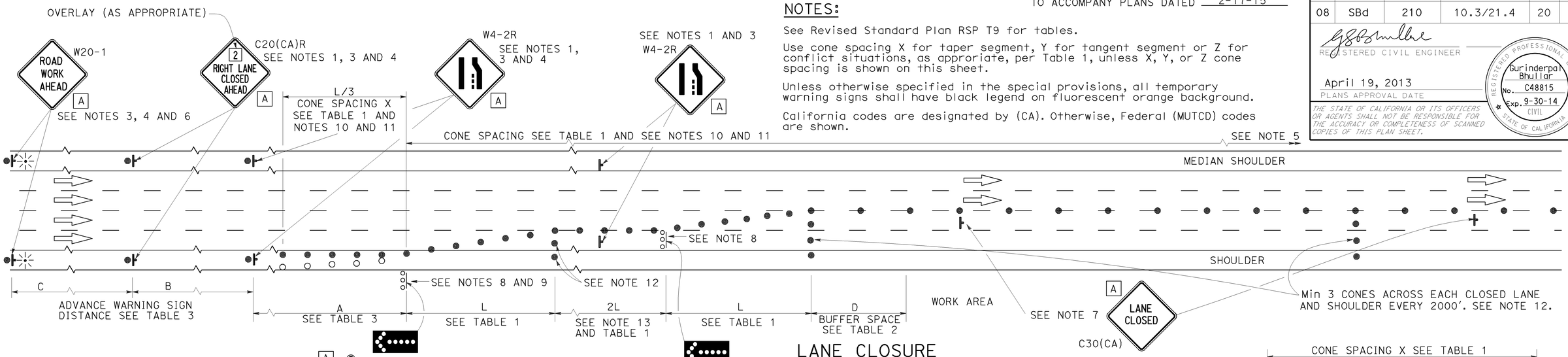
NOTES:

See Revised Standard Plan RSP T9 for tables.

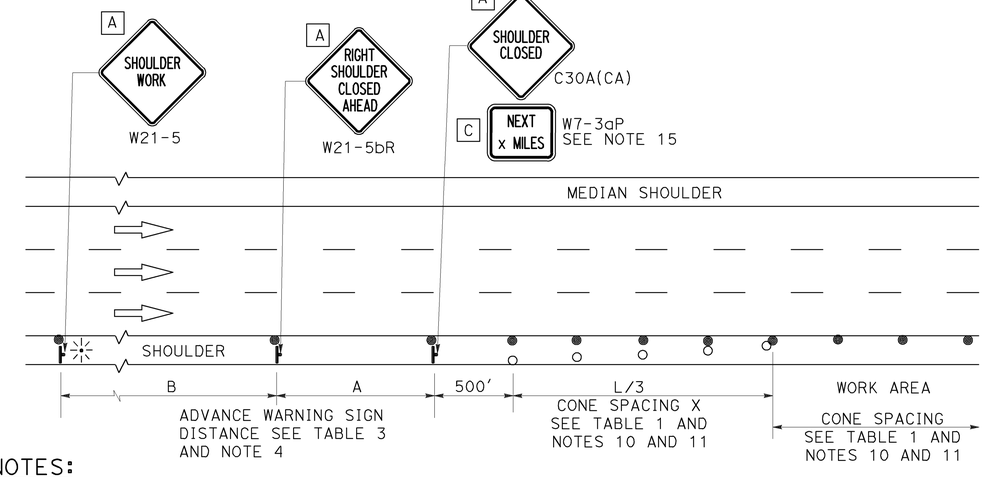
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

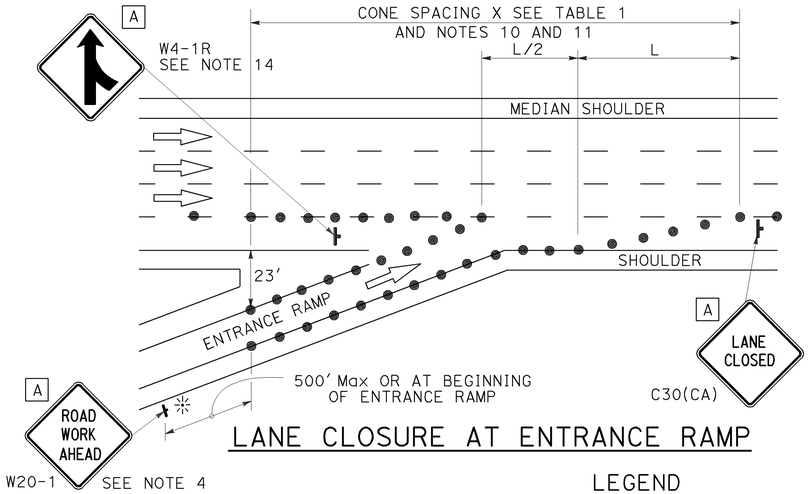
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



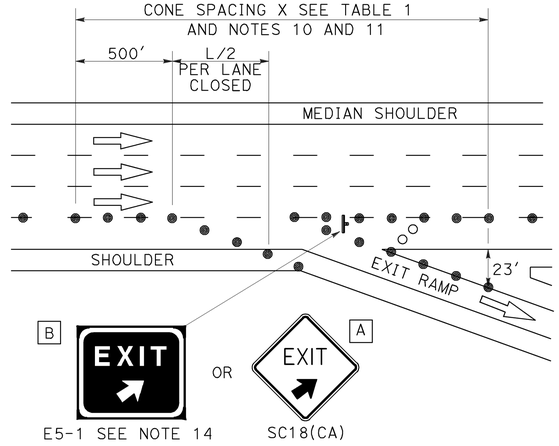
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

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.
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) sign for the first advance warning sign.
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.
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 theshoulder 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

12-18-12

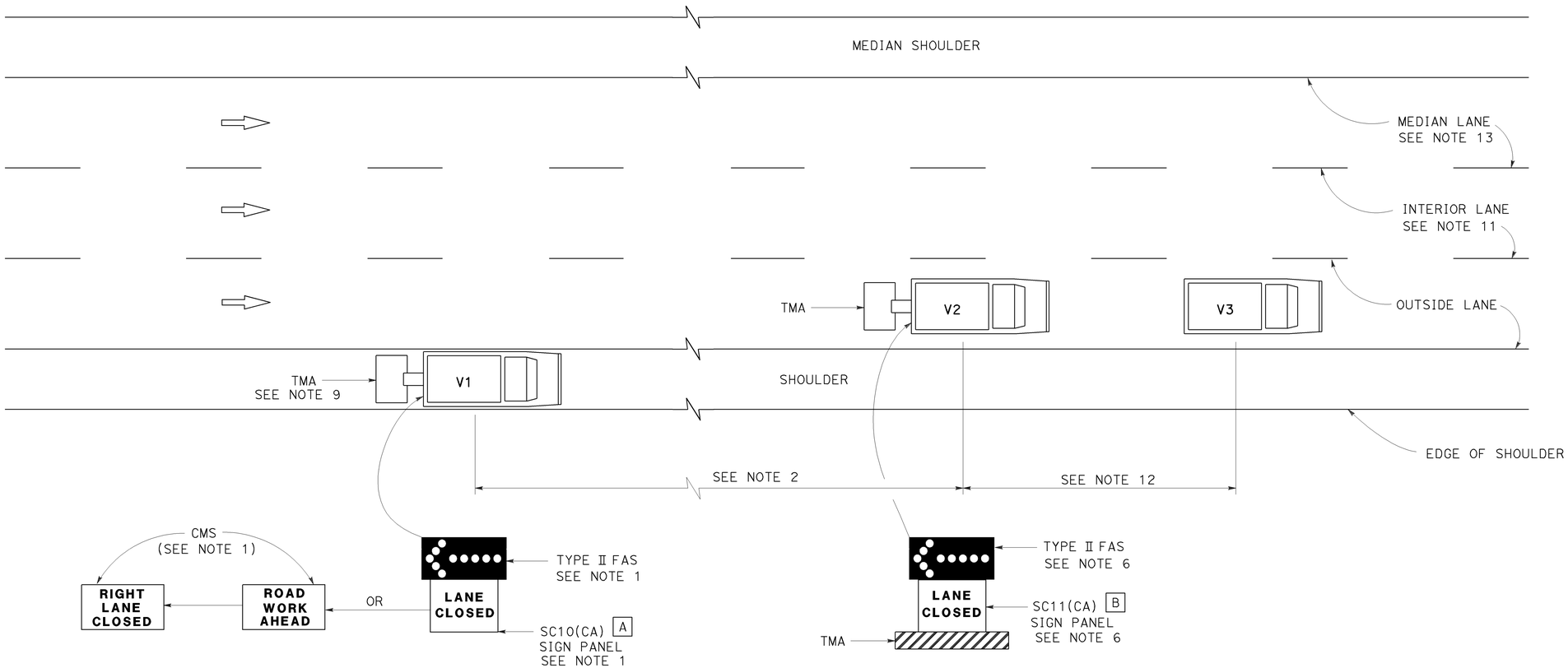
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	21	22

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 2-17-15



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

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	210	10.3/21.4	22	22

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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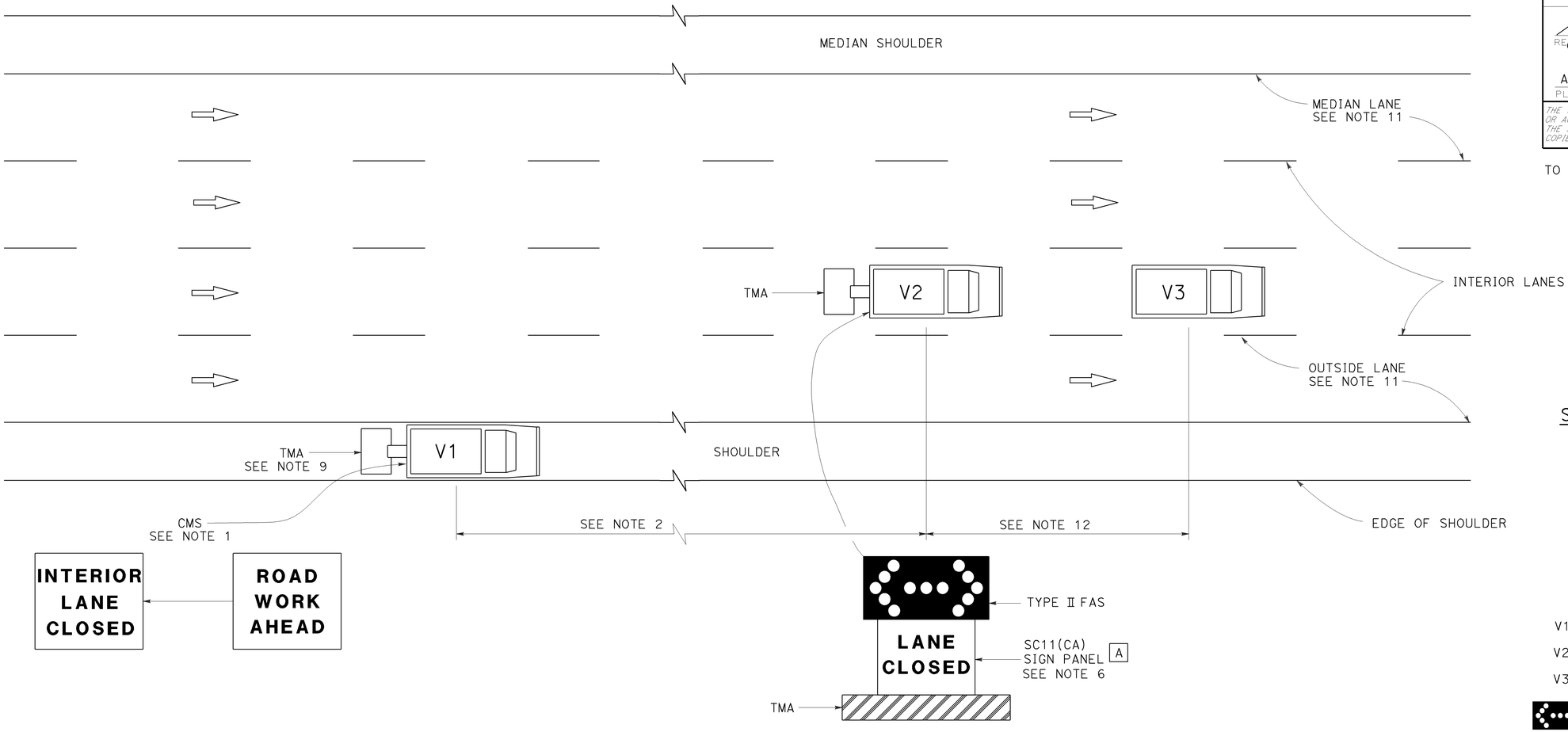
TO ACCOMPANY PLANS DATED 2-17-15



MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

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

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

12-18-13