

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN EL DORADO COUNTY IN AND NEAR PLACERVILLE
ON ROUTE 50 FROM CLAY STREET UNDERCROSSING
TO EAST OF CARSON ROAD OVERCROSSING
AND ON ROUTE 193 FROM SOUTH FORK AMERICAN
RIVER BRIDGE TO THE JUNCTION OF ROUTE 49/193

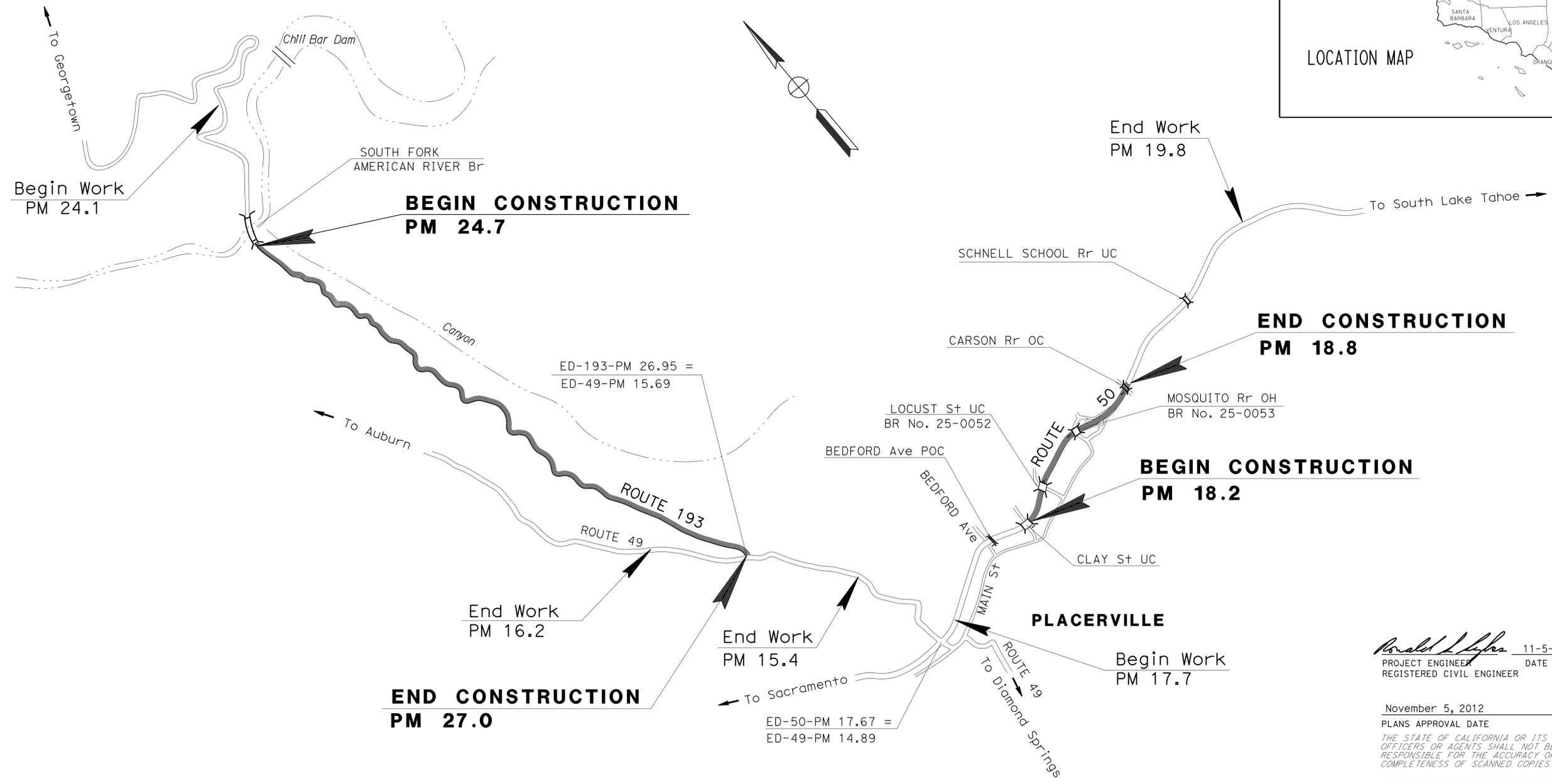
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50,193	18.2/18.8, R24.7/27.0	1	12

INDEX OF PLANS

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8	SUMMARY OF QUANTITIES
9-11	TRAFFIC CONTROL SYSTEM
12	REVISED STANDARD PLAN

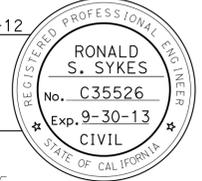
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.



PROJECT MANAGER
RONALD S. SYKES

DESIGN ENGINEER
RONALD S. SYKES

Ronald S. Sykes 11-5-12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER



November 5, 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.

CONTRACT No.	03-4M5404
PROJECT ID	0312000109

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

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50,193	18.2/18.8, 24.7/27.0	2	12

<i>Ronald S. Sykes</i>		11-5-12
REGISTERED CIVIL ENGINEER	DATE	
11-5-12		
PLANS APPROVAL DATE		

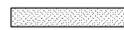
REGISTERED PROFESSIONAL ENGINEER
RONALD S. SYKES
No. C35526
Exp. 9-30-13
CIVIL

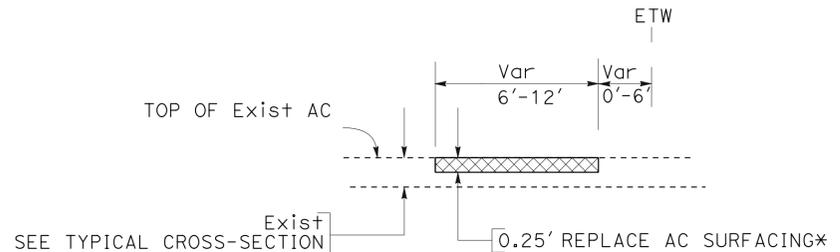
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NOTES:

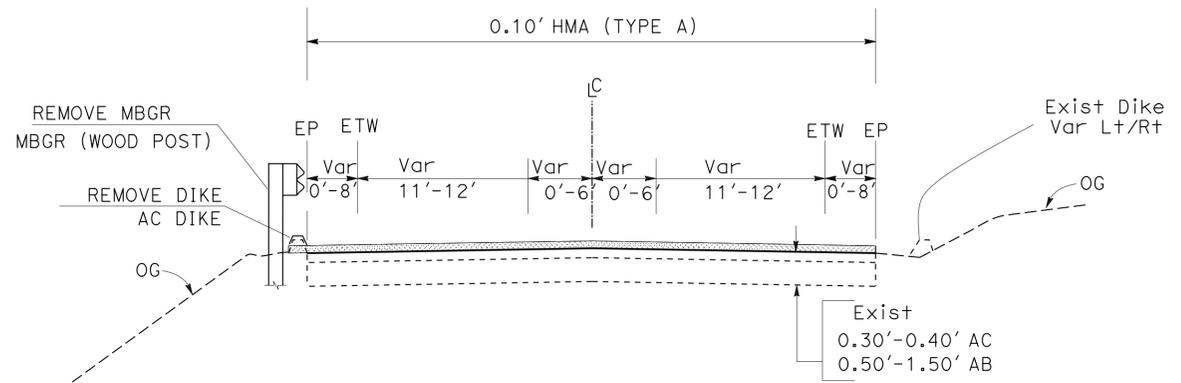
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- CROSS SLOPES VARY, MATCH EXISTING.
- FOR LOCATIONS AND DIMENSIONS OF REPLACE ASPHALT CONCRETE SURFACING SEE SUMMARY OF QUANTITIES
- NO WORK ON BRIDGES.
- FOR LOCATION OF REMOVE MBGR, MBGR (WOOD POST), REMOVE ASPHALT CONCRETE DIKE, PLACE HMA DIKE, SEE SUMMARY OF QUANTITIES SHEET.

LEGEND:

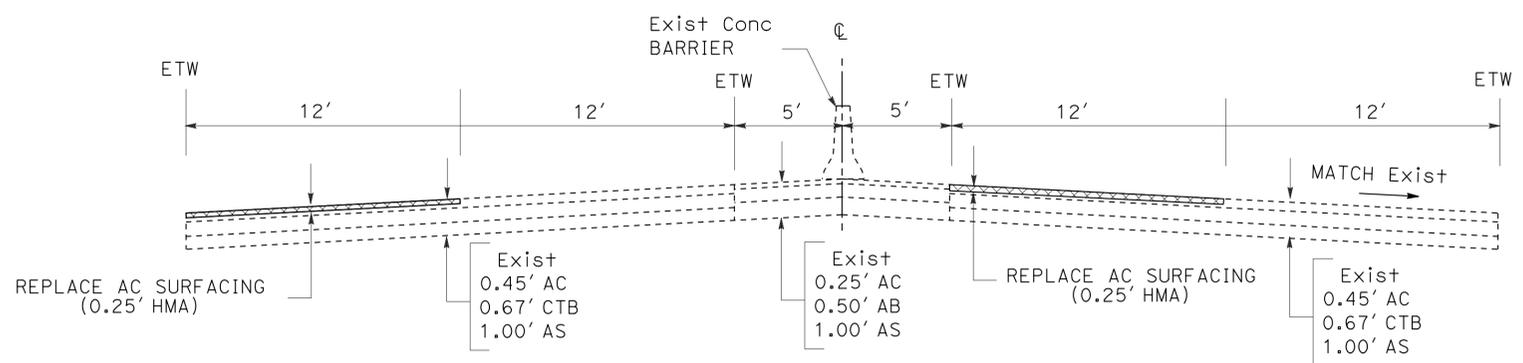
-  0.10' HMA (TYPE A)
-  REPLACE ASPHALT CONCRETE SURFACING



REPLACE ASPHALT CONCRETE SURFACING
ROUTE 193 MAINLINE
ROUTE 50 MAINLINE



ROUTE 193
PM 24.7 To 27.0



ROUTE 50
PM 18.2 To 18.8

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: RONALD S. SYKES
 CALCULATED/DESIGNED BY: JOSEPH SAAVEDRA
 CHECKED BY: REX HERVEY
 REVISIONS: REVISOR: SA, DATE: 7/2/2010

USERNAME => s125660
DGN FILE => 0312000109ca001.dgn



UNIT 0484

PROJECT NUMBER & PHASE 03120001091

LAST REVISION: DATE PLOTTED => 06-DEC-2012
 TIME PLOTTED => 15:20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
 RONALD S. SYKES

CALCULATED/DESIGNED BY
 CHECKED BY

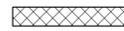
JOSEPH SAAVEDRA

REVISED BY
 DATE REVISED

NOTES:

- FOR LOCATIONS AND DIMENSIONS OF REPLACE ASPHALT CONCRETE SURFACING SEE SUMMARY OF QUANTITIES

LEGEND:

 REPLACE ASPHALT CONCRETE SURFACING

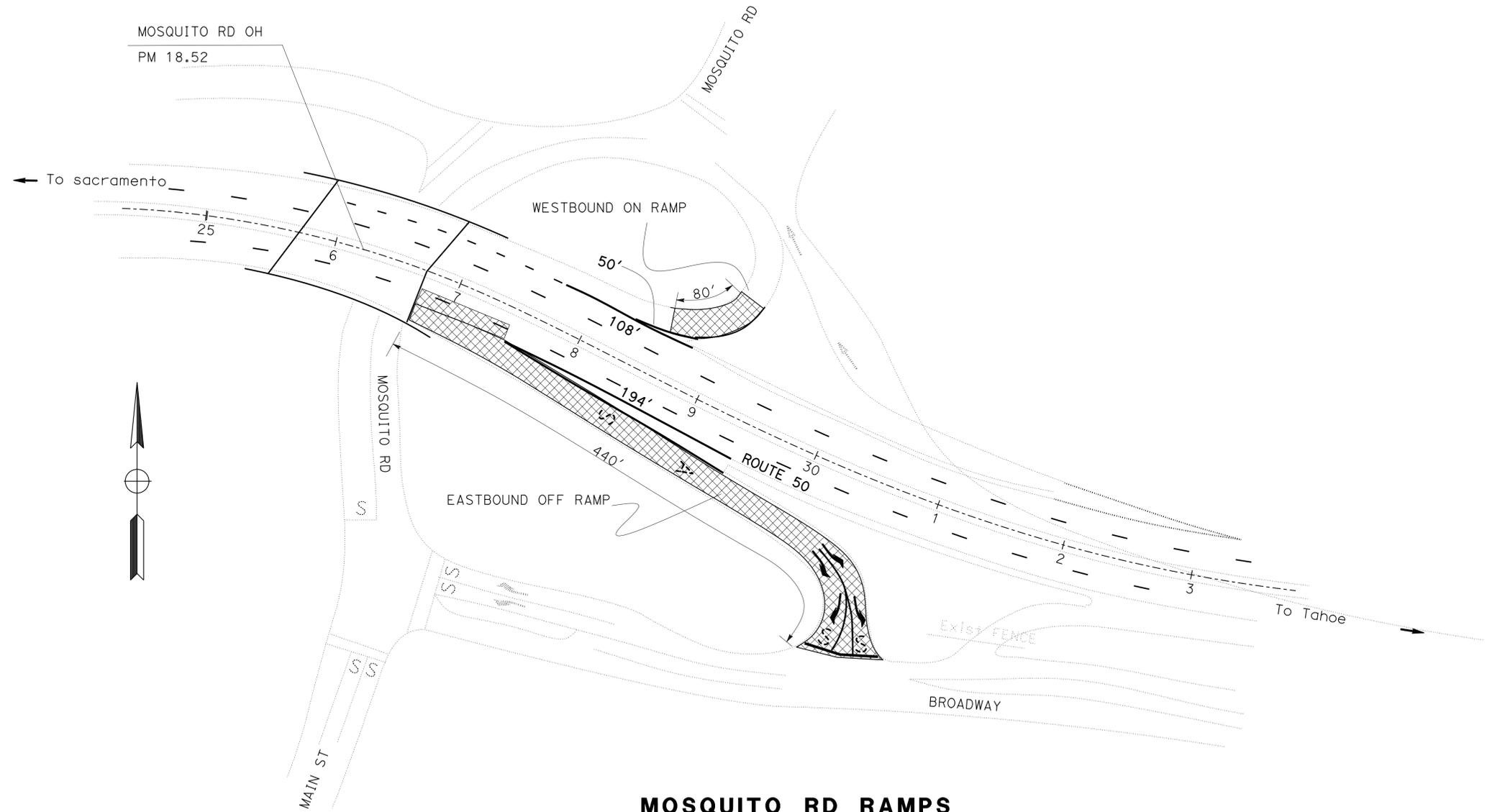
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50,193	18.2/18.8, 24.7/27.0	4	12

Ronald S. Sykes
 REGISTERED CIVIL ENGINEER DATE 11-5-12

11-5-12
 PLANS APPROVAL DATE

RONALD S. SYKES
 No. C35526
 Exp. 9-30-13
 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.



MOSQUITO RD RAMPS

ROUTE 50
 PM 18.54 TO 18.60

CONSTRUCTION DETAILS

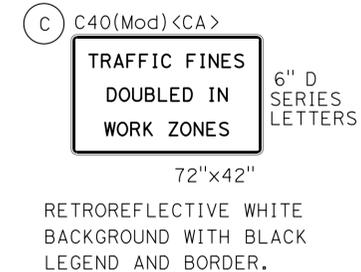
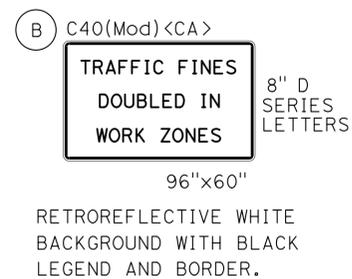
NO SCALE

C-2

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	2
(B)		C40(Mod)	96" x 60"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 6" x 6"	2
(C)		C40(Mod)	72" x 42"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 4" x 6"	2
(D)	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	5
(E)	G20-2	C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	2
(F)	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	6

SIGN DETAILS

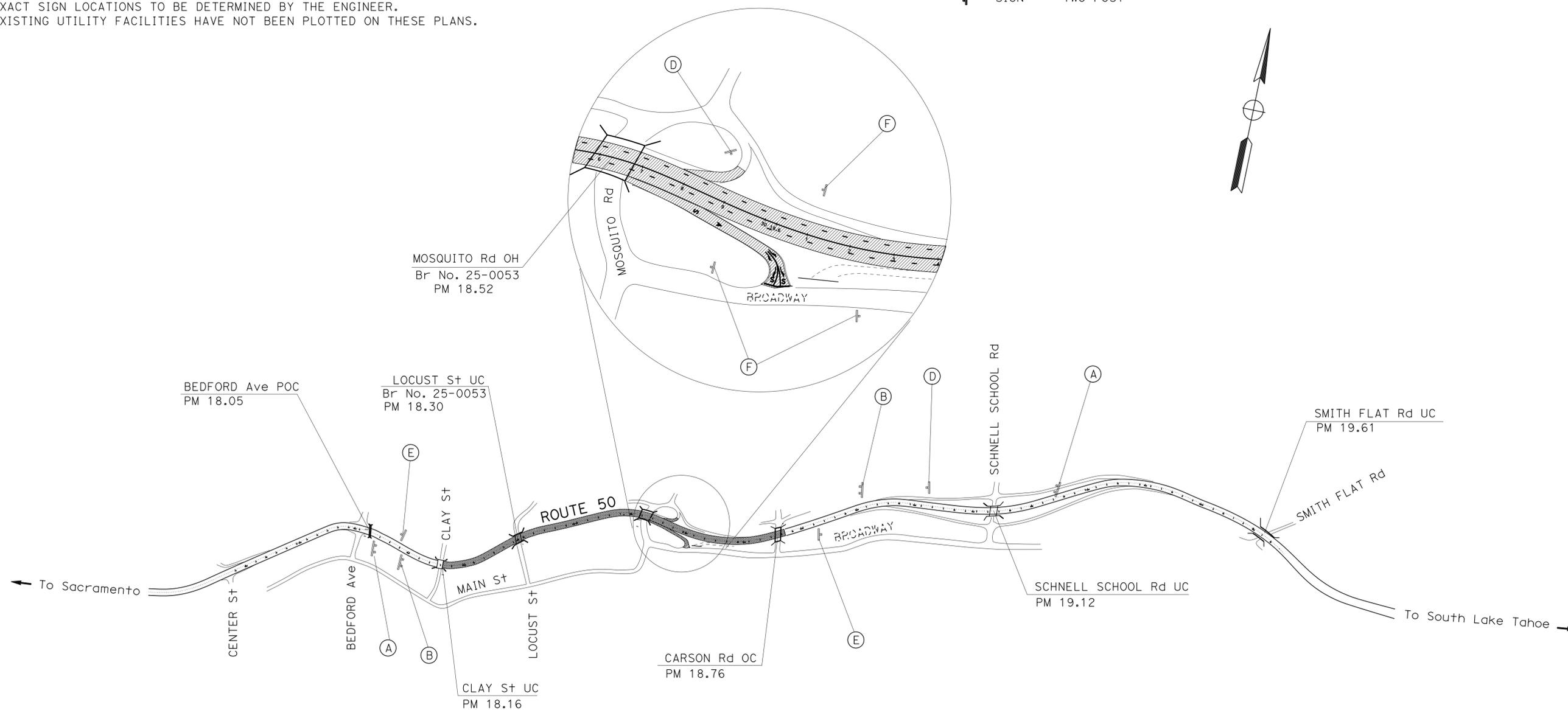


LEGEND:

- ⊥ SIGN - ONE POST
- ⊥ SIGN - TWO POST

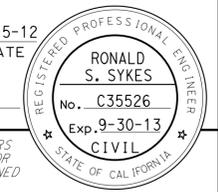
NOTES:

1. POST DIMENSIONS ARE NOMINAL.
2. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50,193	18.2/18.8, 24.7/27.0	5	12

11-5-12 DATE
 REGISTERED CIVIL ENGINEER
 11-5-12 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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE DESIGN
 Caltrans

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
 RONALD S. SYKES

CALCULATED/DESIGNED BY
 CHECKED BY

JOSEPH SAAVEDRA

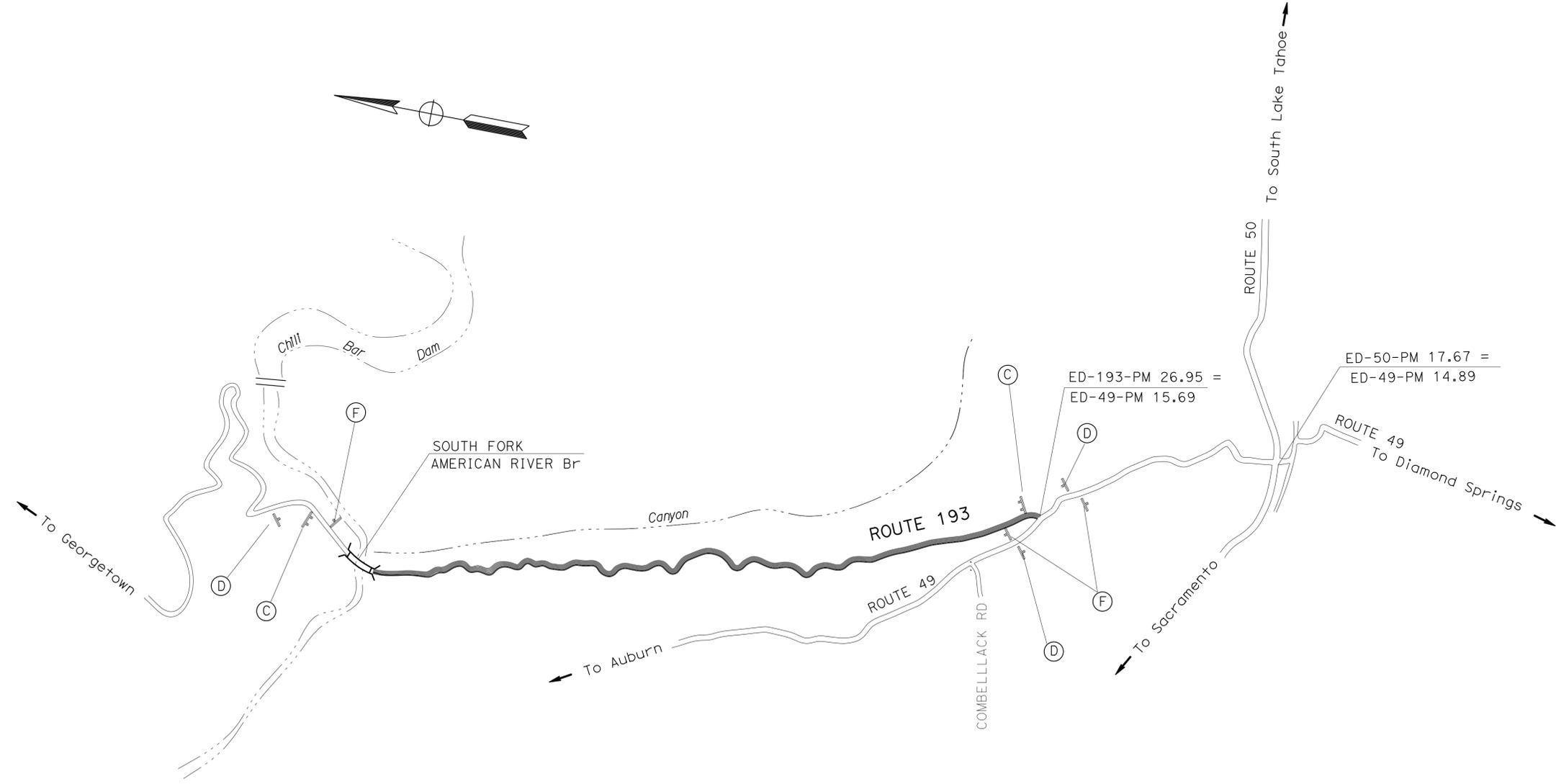
REVISED BY
 DATE REVISED

NOTES:

1. SEE SHEET CS-1 FOR ADDITIONAL CONSTRUCTION AREA SIGNS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50,193	18.2/18.8, 24.7/27.0	6	12

Ronald S. Sykes 11-5-12
 REGISTERED CIVIL ENGINEER DATE
 11-5-12
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONSTRUCTION AREA SIGNS
 NO SCALE
CS-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50,193	18.2/18.8, 24.7/27.0	7	12

Ronald S. Sykes
 REGISTERED CIVIL ENGINEER DATE 11-5-12

11-5-12
 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.

PAVEMENT STRIPING AND PAVEMENT MARKERS

LOCATION/ DESCRIPTION	4" THERMOPLASTIC TRAFFIC STRIPE			4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	8" THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKER (RETROREFLECTIVE RECESSED)		
	22	25	27B	9	12	36	38	38A	D	G	
DETAIL/TYPE UNITS	LF									EA	
ROUTE 50 - WESTBOUND		3,200	3,053	200	3,200	443			67	89	
ROUTE 50 - EASTBOUND		3,150	3,355		3,200	400	138		66	83	
ROUTE 193	23,000		23,000					990	958		
SUBTOTAL	23,000	6,350	29,408			843	138	990	1,091	172	
TOTAL	58,758			200	6,400	1,971			1,263		

PAVEMENT MARKINGS

LOCATION/DESCRIPTION	THERMOPLASTIC PAVEMENT MARKING					NOTES	
	"STOP"	"AHEAD"	"SIGNAL"	TYPE III ARROW	LIMIT LINE		
	SQFT						
ROUTE 50	WESTBOUND PM 18.29		62		64		
	EASTBOUND PM 18.53	22	31			OFFRAMP	
	EASTBOUND PM 18.55	44			168	59	OFFRAMP
ROUTE 193	PM 24.72 (L+)	22				20	DRIVEWAY
	PM 26.90	22	31				
	PM 26.99	44				53	INTERSECTION OF RTE 193/49
SUBTOTAL	154	124	64	168	132		
TOTAL	642						

REMOVE THERMOPLASTIC PAVEMENT MARKING

LOCATION/DESCRIPTION	REMOVE THERMOPLASTIC PAVEMENT MARKING			
	"STOP"	"AHEAD"	LIMIT LINE	DETAIL 38A
	SQFT			
RTE 193 PM 25.42 TO 26.52				660
RTE 193 PM 26.90	22	31		
RTE 193 PM 26.99	44		53	
SUB TOTAL	66	31	53	660
TOTAL	810			

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: RONALD S. SYKES
 CHECKED BY: JEFF JEWETT
 CALCULATED/DESIGNED BY: JOSEPH SAAVEDRA
 REVISOR: JEFF JEWETT
 REVISION DATE:



REPLACE ASPHALT CONCRETE SURFACING

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50,193	18.2/18.8, 24.7/27.0	8	12

Ronald S. Sykes
 REGISTERED CIVIL ENGINEER DATE 11-5-12
 11-5-12
 PLANS APPROVAL DATE

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DIRECTION	APPROXIMATE PM	LANE No.	WHEEL PATH	LENGTH	WIDTH	(N)	REPLACE AC SURFACING
						HMA	
				LF		TON	CY
RTE 50	WESTBOUND	2	R/L	75	12	16.6	8.3
		ON RAMP	R/L	80	18' To 21'	31.2	15.6
		1	R/L	150	12	33.4	16.7
		2	R/L	50	12	11.2	5.6
		1	R/L	640	12	142.2	71.1
		2	R/L	40	12	8.8	4.4
		1	R/L	260	12	57.8	28.9
		2	R/L	685	12	152.2	76.1
		EASTBOUND	1	R/L	510	12	113.4
	2		R/L	590	12	131.1	65.7
	1		R/L	230	12	51.2	25.6
	2		R/L	60	12	13.4	6.7
	OFF RAMP		R/L	440	12' To 64'	179.2	89.6
	2		R/L	345	12	76.6	38.3
	2		R/L	580	12	128.8	64.4
	2		R/L	250	12	55.6	27.8
	1		R/L	75	12	16.6	8.3
	RTE 193	SOUTHBOUND	2	R/L	230	12	51.2
			R/L	100	12	22.2	11.1
			R/L	550	12	122.2	61.1
			R/L	100	12	22.2	11.1
			R/L	50	12	11.2	5.6
			R/L	50	12	11.2	5.6
			R/L	50	12	11.2	5.6
			R/L	60	12	13.4	6.7
			R/L	100	6	11.2	5.6
TOTAL							747.8

ROADWAY QUANTITY SUMMARY

LOCATION/DESCRIPTION	HMA-A	ASPHALTIC EMULSION	ASPHALTIC EMULSION (FOG SEAL COAT)	COLD PLANE ASPHALT CONCRETE PAVEMENT	COMMENTS
RTE 193					
R24.7				89	CONFORM GRIND AT SOUTH FORK AMERICAN BR
27.0				233	CONFORM GRIND AT INERSECTION RTE 193/49
R24.7 To 27.0	2,925	10.0			
AC GUTTER/DIKE			1.0		FOG SEAL ALL EXISTING DIKE AND AC SPILLWAYS
HMA DIKE	13				
TOTAL	2,938	10.0	1.0	322	

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

DIKE AND METAL BEAM GUARD RAIL QUANTITY SUMMARY

LOCATION/DESCRIPTION	REMOVE ASPHALT CONCRETE DIKE	PLACE HMA DIKE (TYPE C)	PLACE HMA DIKE (TYPE F)	REMOVE MBGR	MBGR (WOOD POST)	TRANSITION RAILING (TYPE WB)	ALTERNATIVE FLARED TERMINAL SYSTEM	ALTERNATIVE IN-LINE TERMINAL SYSTEM	END ANCHOR ASSEMBLY (TYPE SFT)	RETURN END CAP	END CAP (TYPE A)	OBJECT MARKER (TYPE L-1)	(N)	
													LAYOUT TYPE	
RTE 193	Beg PM	L+/R+	LF				EA							
	24.70	L+			62.5	37.5	1			1	1	1		
	24.70	R+			262.5	262.5			1	1	1		12DD	
	24.74	L+	430.0	25.0	405.0	462.5	425.0	1		1	1	1	11B	
26.72	L+	530.0	50.0	475.0	600.0	575.0		1	1	1	1	11A		
TOTAL	960.0	75.0	880.0	1,387.5	1,300.0	1	1	1	4	4	1	3		

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

SUMMARY OF QUANTITIES

Q-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50,193	18.2/18.8, 24.7/27.0	9	12

REGISTERED CIVIL ENGINEER	DATE
11-5-12	11-5-12
PLANS APPROVAL DATE	

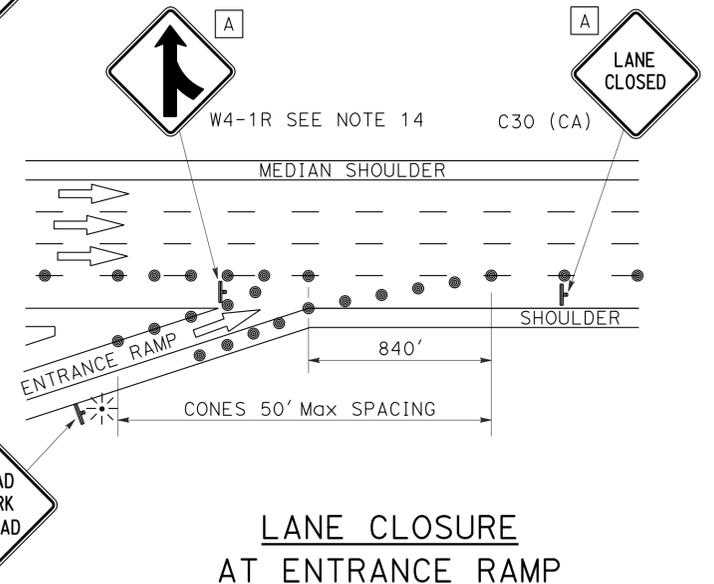
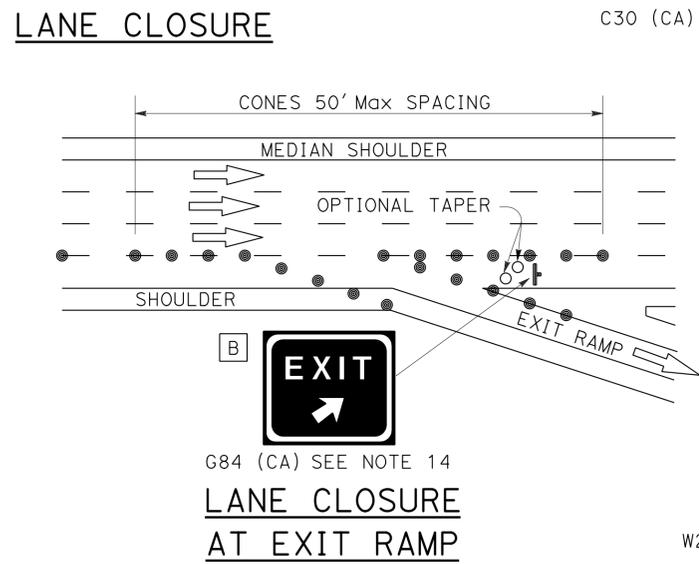
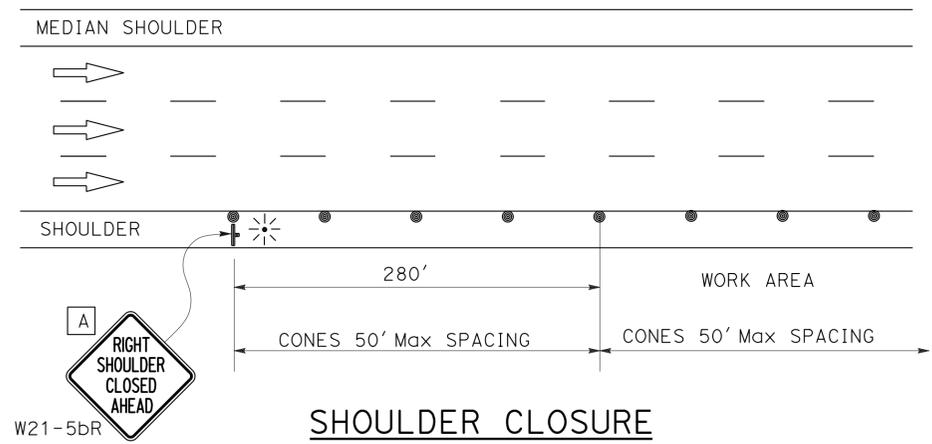
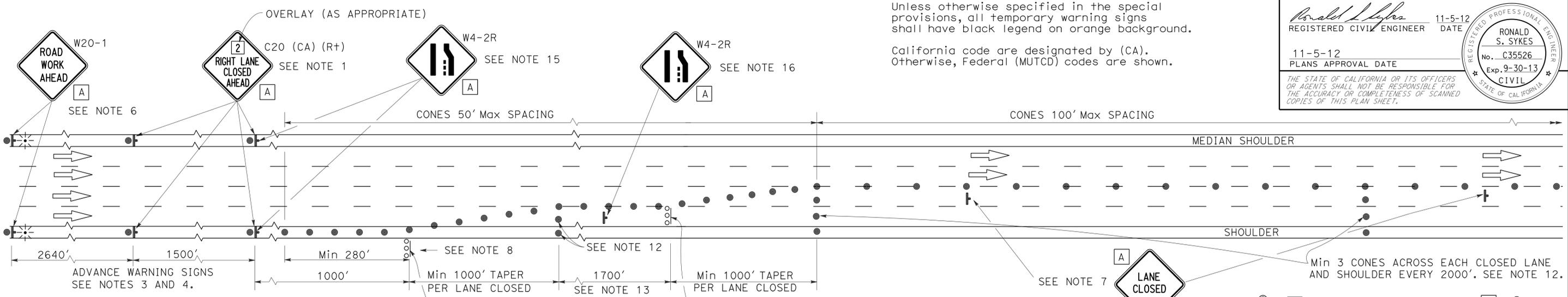
REGISTERED PROFESSIONAL ENGINEER
RONALD S. SYKES
No. C35526
Exp. 9-30-13
CIVIL

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.

NOTES:

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

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



NOTES:

- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
- 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 C14 (CA) "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 C11 (CA) "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 first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- 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.
- 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" 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 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
- When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
- The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 54" x 48"

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

TCS-1

REVISOR: [] DATE: []

CALCULATED/DESIGNED BY: [] CHECKED BY: []

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Maintenance DESIGN

Et Caltrans

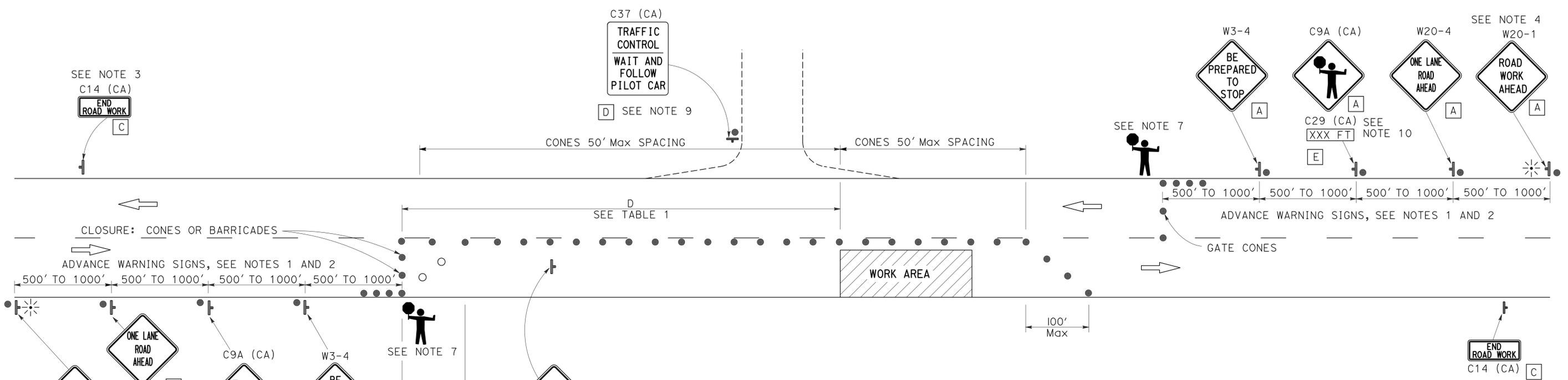
LAST REVISION: [] DATE PLOTTED => 06-DEC-2012
00-00-00 TIME PLOTTED => 15:21

NOTES:

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

- A 48" x 48" - SPEED OF 45 mph OR MORE
36" x 36" - SPEED LESS THAN 45 mph
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 36" x 9"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⊢ TEMPORARY SIGN
- ☀ PORTABLE FLASHING BEACON
- 👤 FLAGGER

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	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

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

NOTES:

- Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
- 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 C14 (CA) "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 C11 (CA) "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 at all intersections within traffic control area. Signs shall be clean and visible at all times.
- An optional C29 (CA) sign may be placed below the C9A (CA) sign.
- Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

TCS-2

REVISIONS: x, x, x, x, x
 REVISOR: x
 DATE: x
 CHECKED BY: x
 DESIGNED BY: x
 CALCULATED BY: x
 SUPERVISOR: x
 FUNCTIONAL SUPERVISOR: x
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Maintenance Design
 Ronald S. Sykes
 Et Caltrans

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE
36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

LEGEND

- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

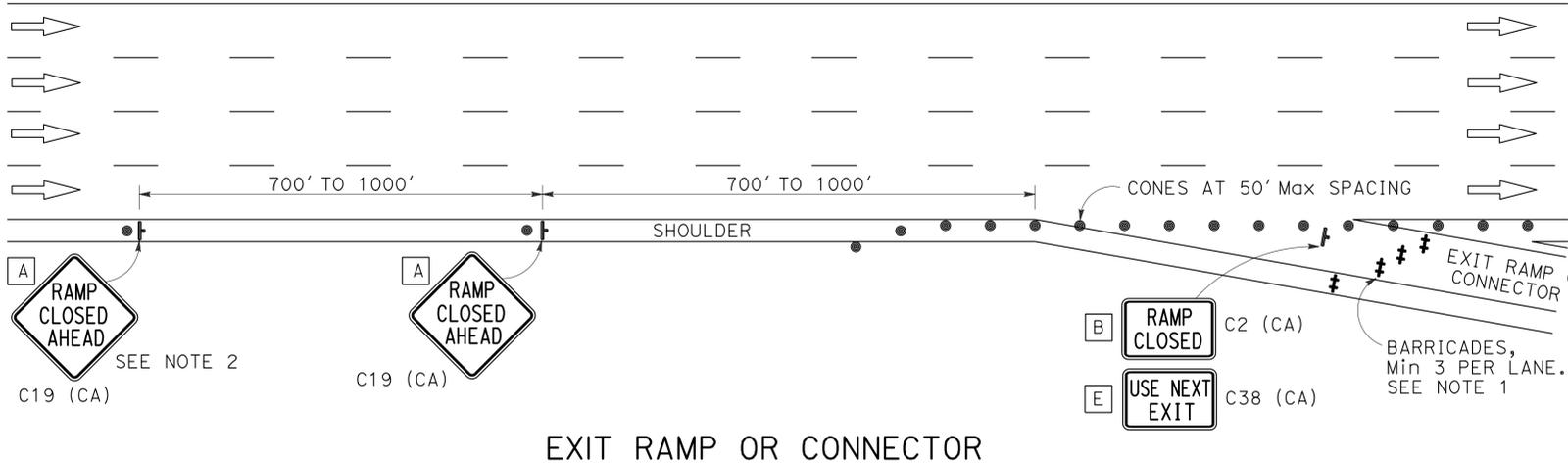
NOTES:

- 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.
- 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" sign in the gore area shall be covered during ramp closures.

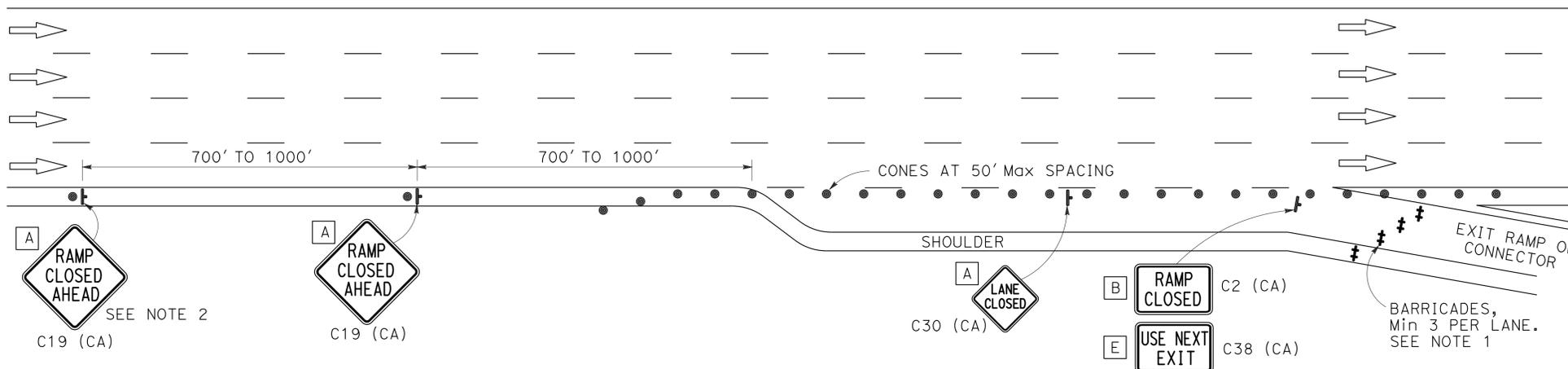
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50,193	18.2/18.8, 24.7/27.0	11	12

Ronald S. Sykes
 REGISTERED CIVIL ENGINEER 11-5-12 DATE
 11-5-12 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.

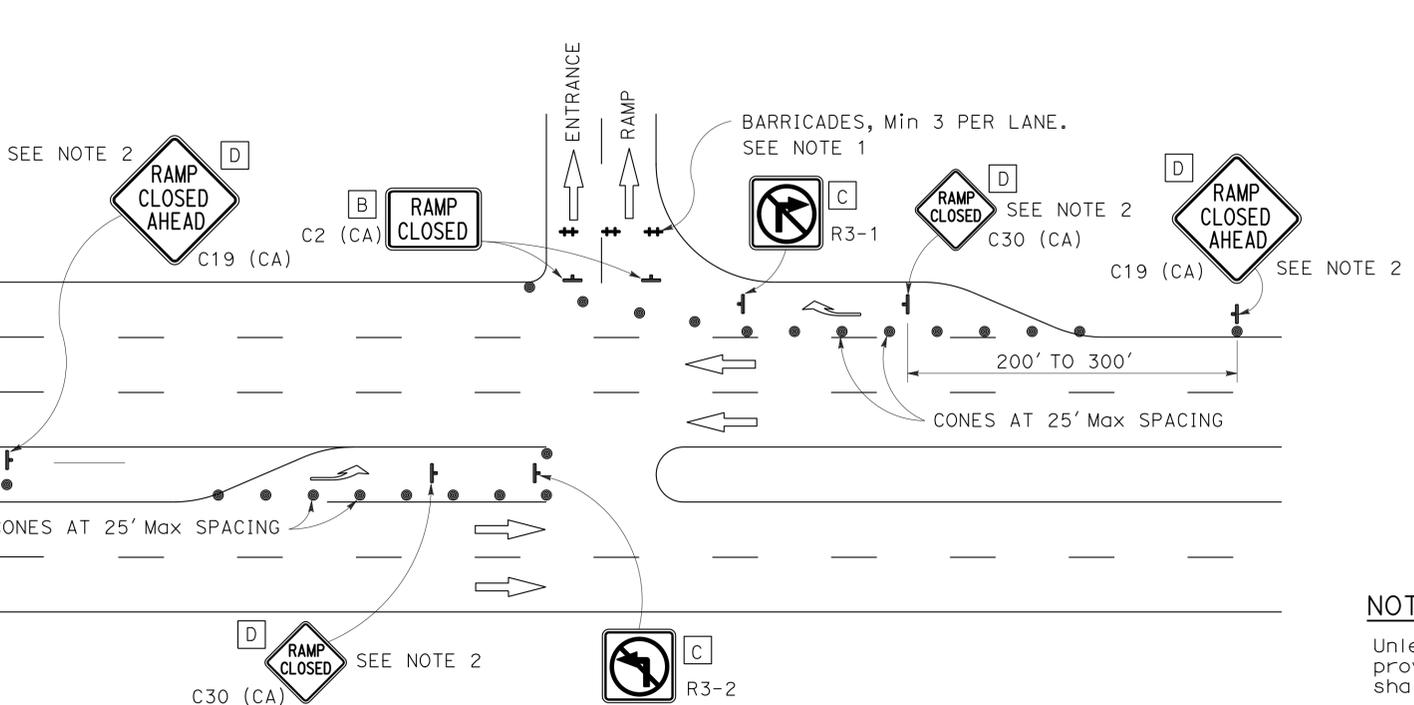
REGISTERED PROFESSIONAL ENGINEER
RONALD S. SYKES
 No. C35526
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA



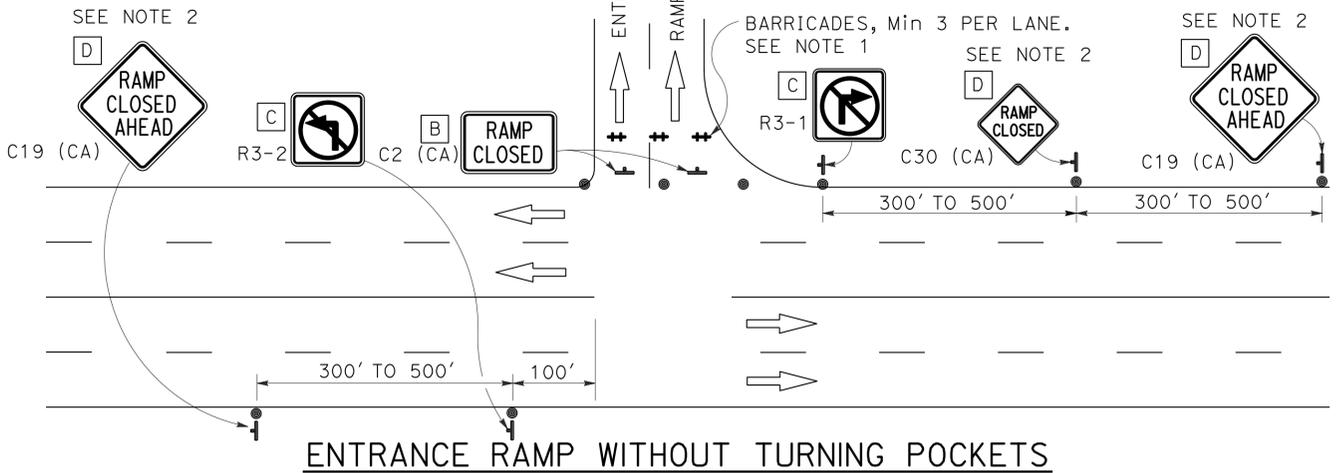
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
- California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

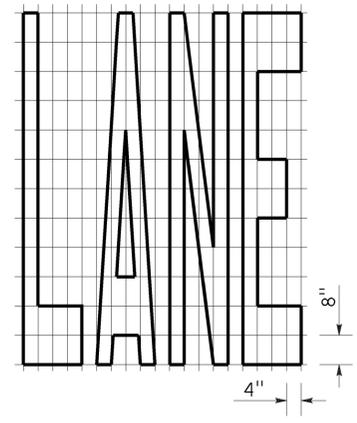
NO SCALE

TCS-3

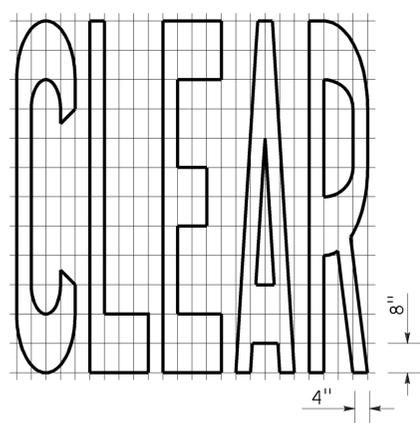
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: RONALD S. SYKES
 REVISIONS: REVISOR, DATE, REVISION BY, DATE, REVISION BY, DATE

LAST REVISION: DATE PLOTTED => 06-DEC-2012
 TIME PLOTTED => 15:21

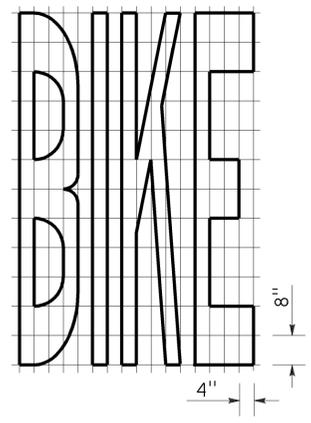
TO ACCOMPANY PLANS DATED 11-5-12



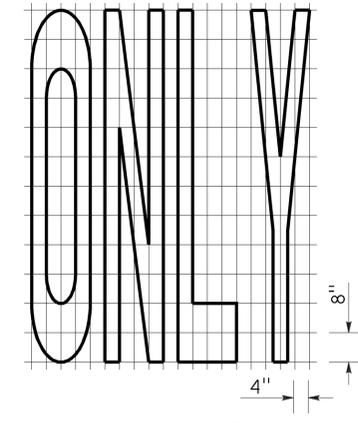
A=24 ft²



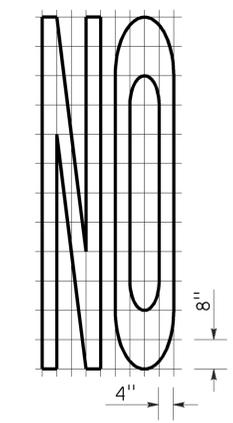
A=27 ft²



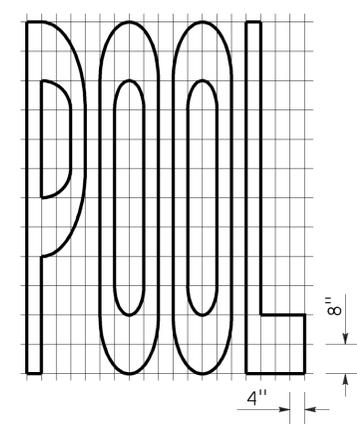
A=21 ft²



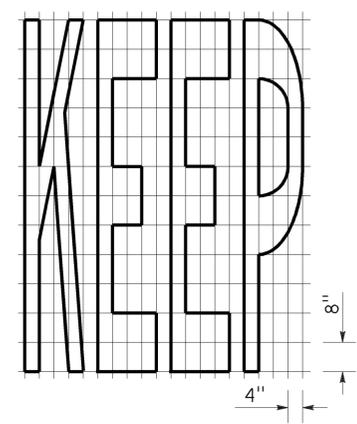
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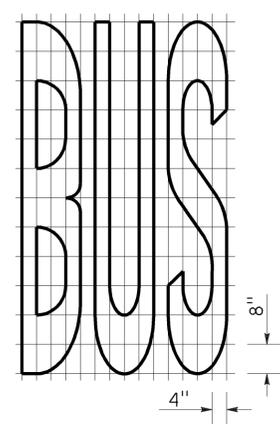
A=14 ft²



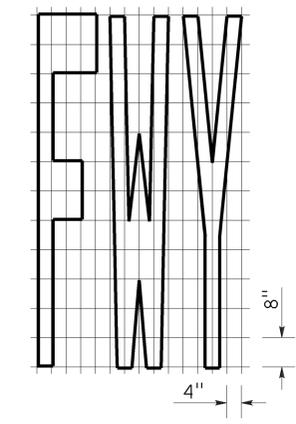
A=23 ft²



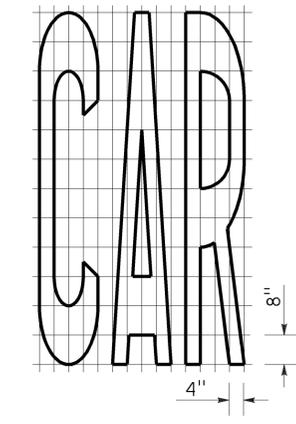
A=24 ft²



A=20 ft²

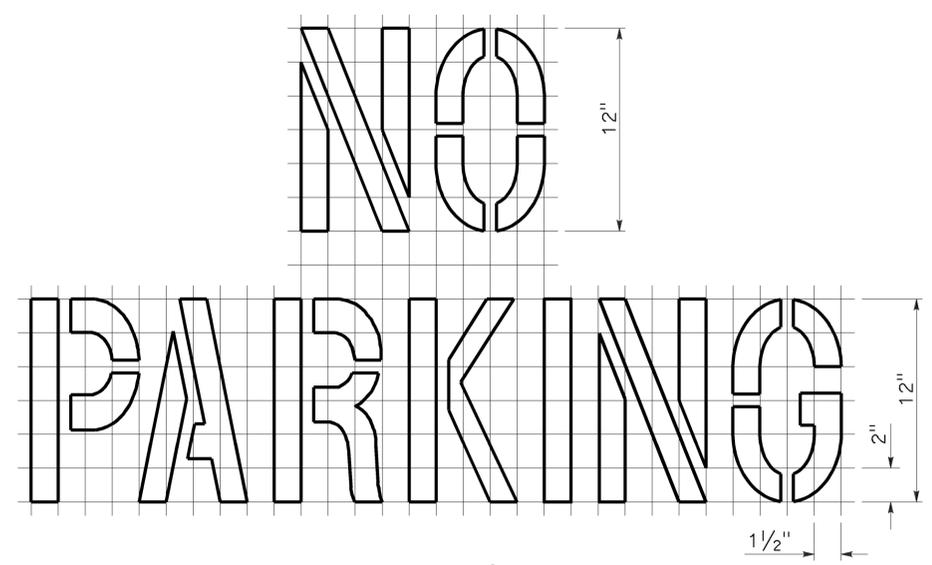


A=16 ft²

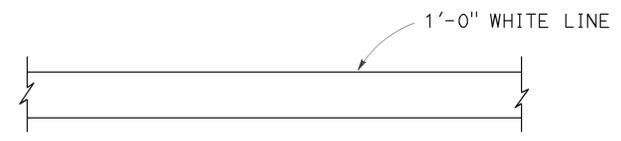


A=17 ft²

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



LIMIT LINE (STOP LINE)



DIRECTION OF TRAVEL
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.

2010 REVISED STANDARD PLAN RSP A24E