

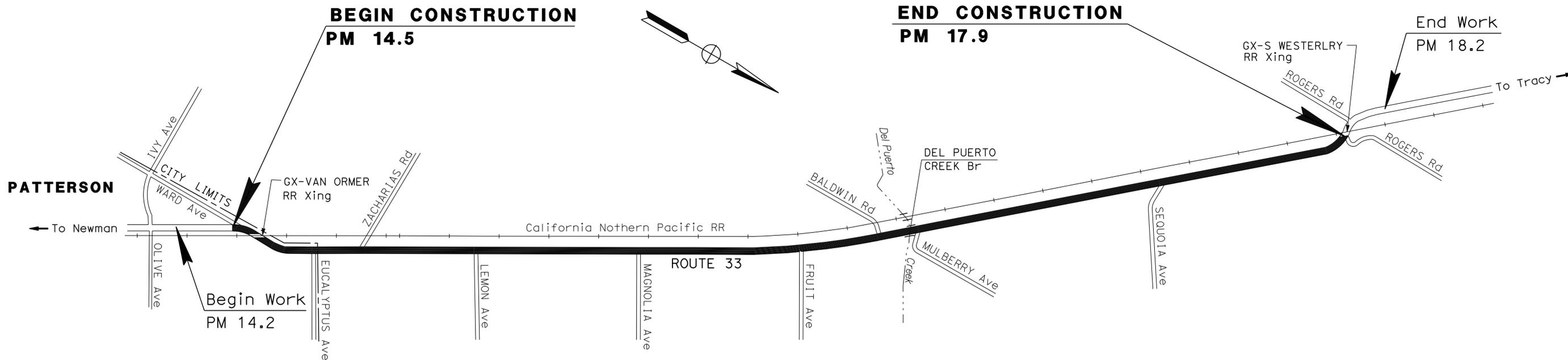
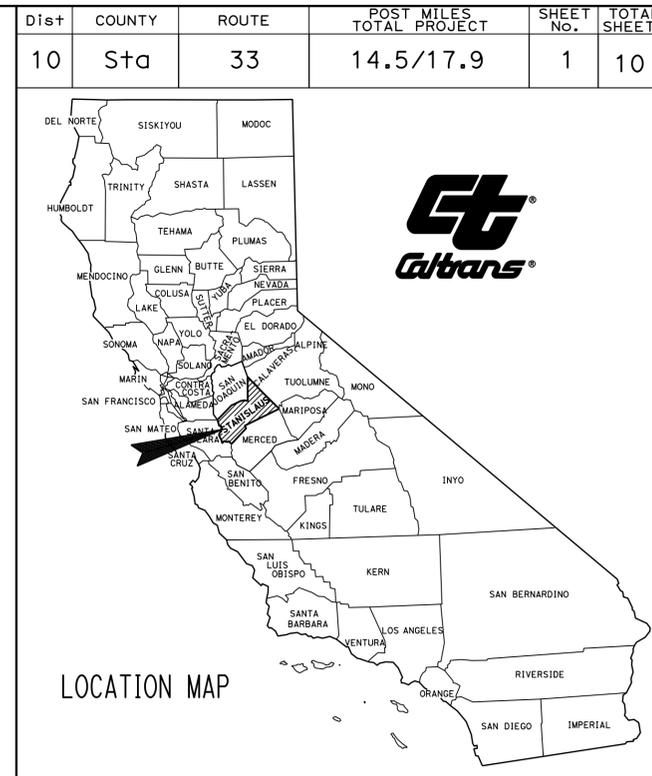
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION
3-4	CONSTRUCTION DETAILS
5	CONSTRUCTION AREA SIGNS
6	SUMMARY OF QUANTITIES
7-10	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 STANISLAUS COUNTY
IN AND NEAR PATTERSON
FROM WARD AVENUE
TO ROGERS ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER	ALVIN MANGINDIN
DESIGN ENGINEER	ALVIN MANGINDIN

DATE 9/26/13
 PROJECT ENGINEER REGISTERED CIVIL ENGINEER
 REGISTERED PROFESSIONAL ENGINEER
JOSE A. ALICEA II
 No. 64817
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

November 12, 2013
 PLANS APPROVAL DATE

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

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

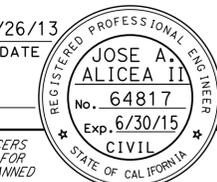
NO SCALE



USERNAME => s123936
 DGN FILE => a0y260ab001.dgn

CONTRACT No.	10-0Y2604
PROJECT ID	1013000125

DATE PLOTTED => 15-NOV-2013 TIME PLOTTED => 08:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	14.5/17.9	2	10
			9/26/13		
REGISTERED CIVIL ENGINEER			DATE		
11/12/13			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTES:

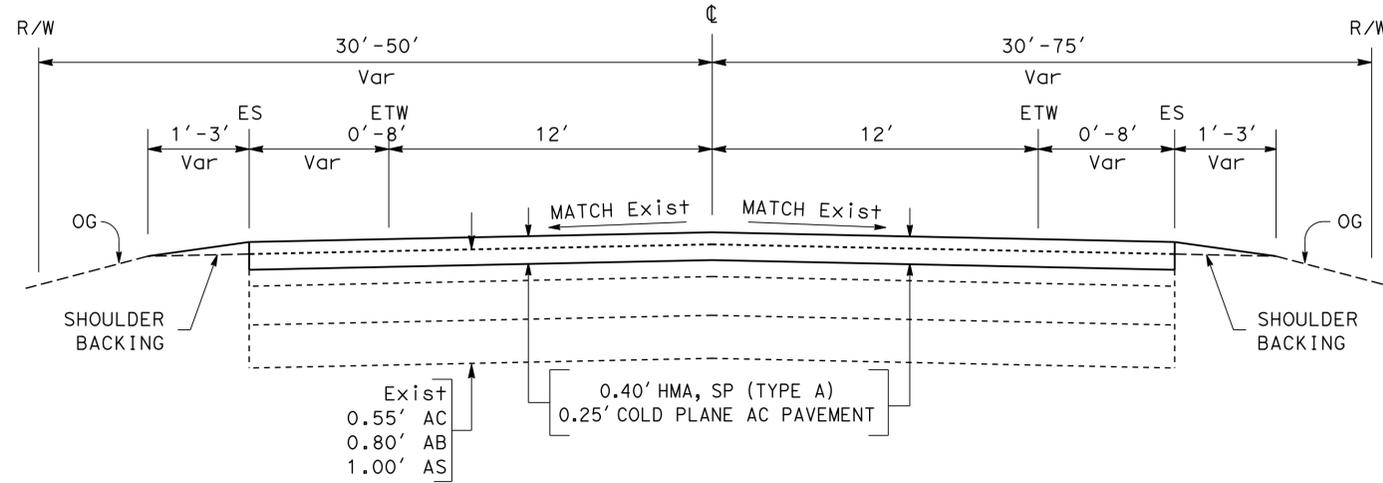
1. DIMENSIONS OF PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. FOR COLD PLANE AC PAVEMENT DIMENSIONS AND LOCATIONS, SEE SUMMARY OF QUANTITIES SHEET.
5. FINAL GRADE OF COLD IN-PLACE RECYCLING TO MATCH EXISTING CROSS SLOPE.

ABBREVIATIONS:

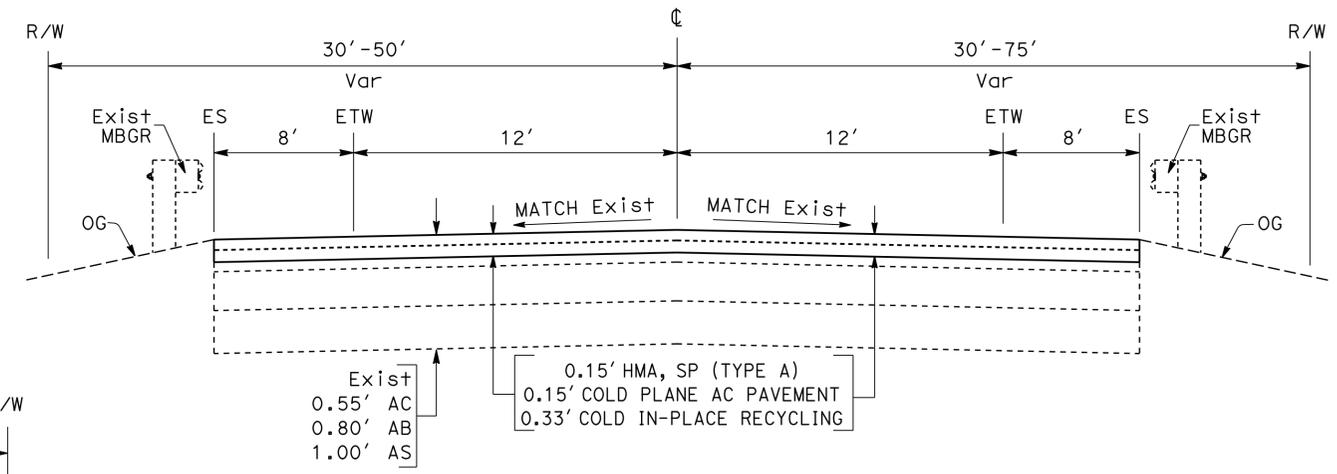
CIR - COLD IN-PLACE RECYCLING
HMA, SP (TYPE A) - HOT MIX ASPHALT, SUPERPAVE (TYPE A)

PAVEMENT CLIMATE REGION

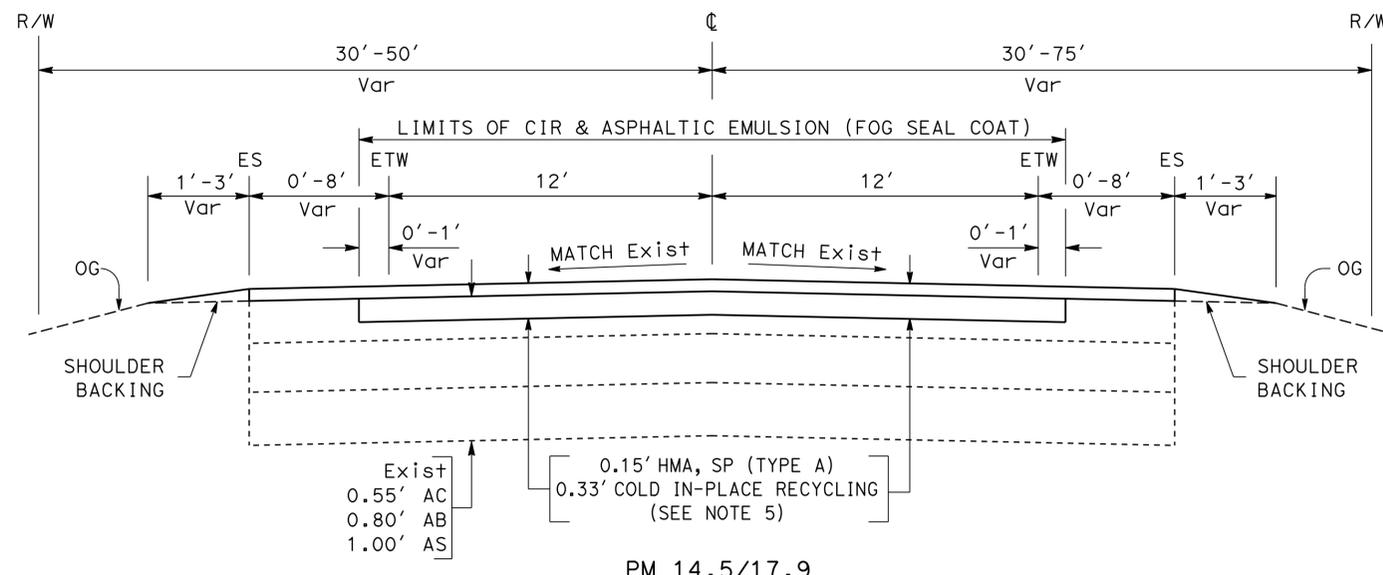
INLAND VALLEY



(SEE CONSTRUCTION DETAILS FOR PUBLIC ROAD LOCATIONS)
PUBLIC INTERSECTIONS



DEL PUERTO CREEK BRIDGE (APPROACH) - PM 16.54
MBGR LOCATION



PM 14.5/17.9

ROUTE 33

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 JOSE A. ALICEA II
 BRUCE SUMIDA
 JAA
 09/26/13
 REVISOR: JAA
 DATE: 09/26/13
 DESIGNED BY: JAA
 CHECKED BY: JAA
 BORDER LAST REVISED 7/2/2010

USERNAME => s123936
DGN FILE => a0y260ca001.dgn



UNIT 2593

PROJECT NUMBER & PHASE

10130001251

LAST REVISION | DATE PLOTTED => 15-NOV-2013
 00-00-00 | TIME PLOTTED => 08:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	14.5/17.9	3	10

JAAlicea 9/26/13
 REGISTERED CIVIL ENGINEER DATE
 11/12/13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 JOSE A. ALICEA II
 No. 64817
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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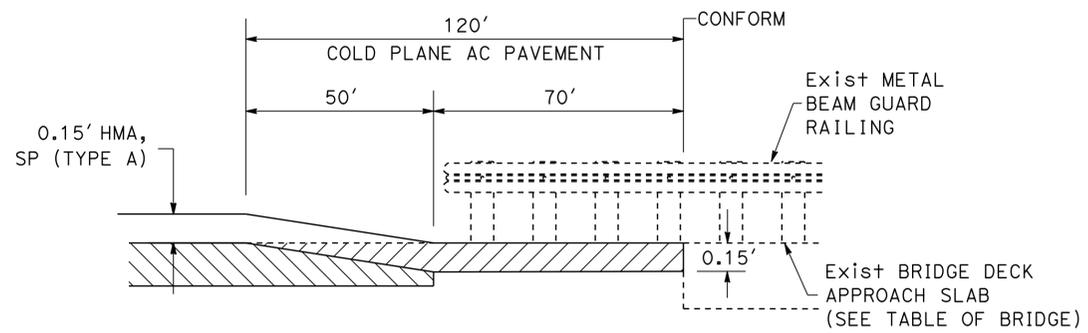
LEGEND

 - COLD PLANE AC PAVEMENT
 HMA, SP (TYPE A)

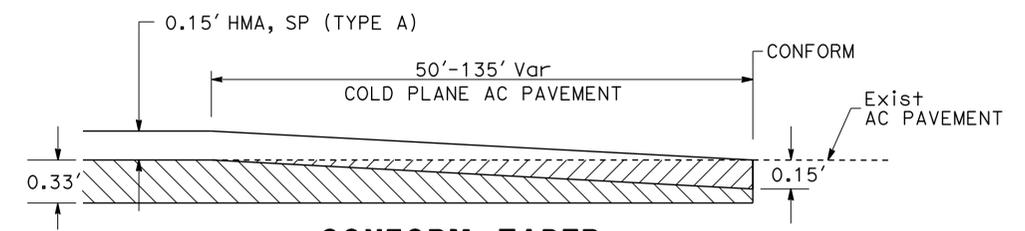
 - COLD IN-PLACE RECYCLING (CIR)

ABBREVIATIONS:

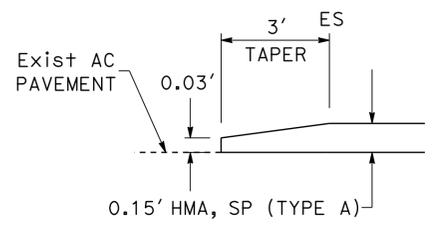
CIR - COLD IN-PLACE RECYCLING
 HMA, SP (TYPE A) - HOT MIX ASPHALT, SUPERPAVE (TYPE A)



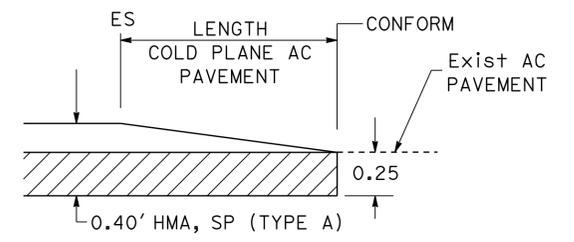
Rte 33 - PM 16.54
(DEL PUERTO CREEK Br)
**CONFORM TAPER AT MBGR;
APPROACH BRIDGE DECK**



**CONFORM TAPER
AT EXISTING AC PAVEMENT**
(SEE CONFORM TAPERS TABLE ON
SUMMARY OF QUANTITIES SHEET)



**PRIVATE DRIVEWAY
CONFORM TAPER**



**PUBLIC ROAD
CONFORM TAPER**
(SEE CONFORM TAPERS AT PUBLIC ROAD
INTERSECTIONS)

PRIVATE DRIVEWAY

PM	SIDE	LENGTH	WIDTH
16.10	R+	3'	50
16.44	R+	3'	40
16.46	R+	3'	40
17.41	R+	3'	50
17.55	R+	3'	50

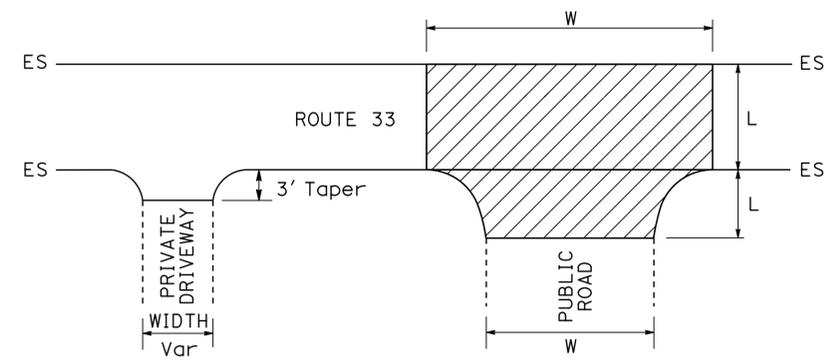
ACTUAL WIDTHS MAY VARY IN THE FIELD AND WILL BE DETERMINED BY THE ENGINEER.

PUBLIC ROAD INTERSECTIONS

PM	SIDE	ROAD NAME	L	W
14.52	L+	WARD AVENUE	125'	24'
14.52	CENTER	WARD AVENUE	355'	24'
14.70	R+	EUCALYPTUS AVENUE	28'	22'
14.70	CENTER	EUCALYPTUS AVENUE	32'	90'
14.86	L+	ZACHARIAS ROAD	30'	28'
14.86	CENTER	ZACHARIAS ROAD	32'	100'
15.20	R+	LEMON AVENUE	28'	22'
15.20	CENTER	LEMON AVENUE	32'	90'
15.70	R+	MAGNOLIA AVENUE	35'	24'
15.70	CENTER	MAGNOLIA AVENUE	32'	90'
16.20	R+	FRUIT AVENUE	35'	22'
16.20	CENTER	FRUIT AVENUE	32'	90'
16.43	L+	BALDWIN ROAD	35'	24'
16.43	CENTER	BALDWIN ROAD	32'	100'
16.56	R+	MULBERRY AVENUE	45'	34'
16.56	CENTER	MULBERRY AVENUE	40'	100'
17.32	R+	SEQUOIA AVENUE	32'	28'
17.32	CENTER	SEQUOIA AVENUE	24'	160'
17.93	R+	ROGERS ROAD	32'	42'
17.93	CENTER	ROGERS ROAD	44'	165'

TABLE OF BRIDGE

PM	BRIDGE NAME	BRIDGE No.
16.54	DEL PUERTO CREEK	38-0019



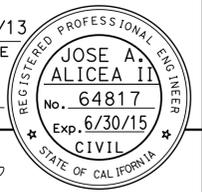
**PAVING LIMITS AT PRIVATE DRIVEWAYS
AND PUBLIC ROAD INTERSECTIONS**
(SEE PRIVATE DRIVEWAYS TABLE AND
CONFORM TAPERS AT PUBLIC ROAD INTERSECTIONS TABLE)

**CONSTRUCTION DETAILS
NO SCALE
C-1**

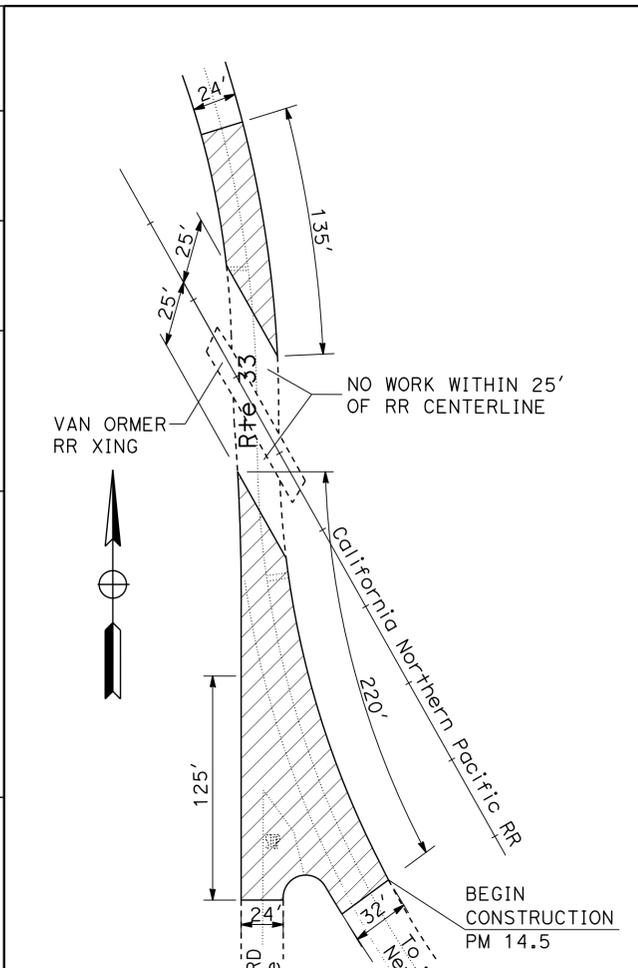
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CALCULATED/DESIGNED BY: JOSE A. ALICEA II
 CHECKED BY: BRUCE SUMIDA
 REVISIONS: JAA 11/07/13
 REVISED BY: DATE

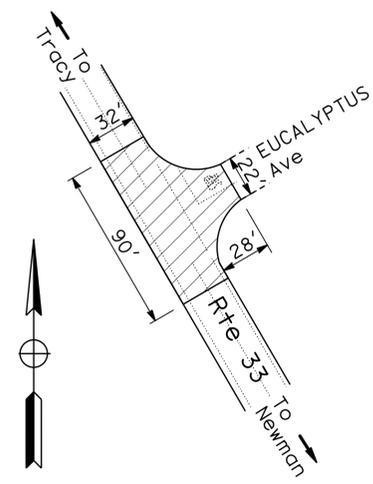
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	14.5/17.9	4	10
REGISTERED CIVIL ENGINEER		DATE		9/26/13	
JOSE A. ALICEA II		No. 64817		Exp. 6/30/15	
PLANS APPROVAL DATE		11/12/13			
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



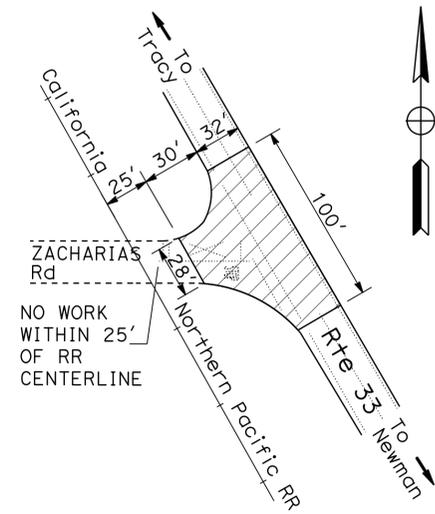
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE



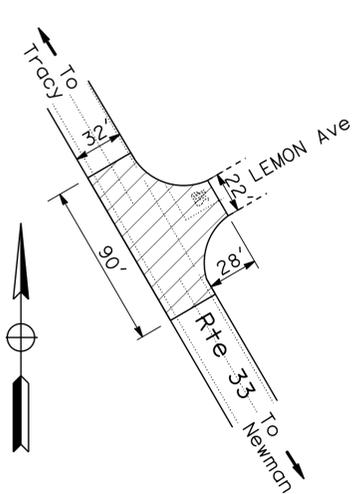
PM 14.52
WARD AVENUE



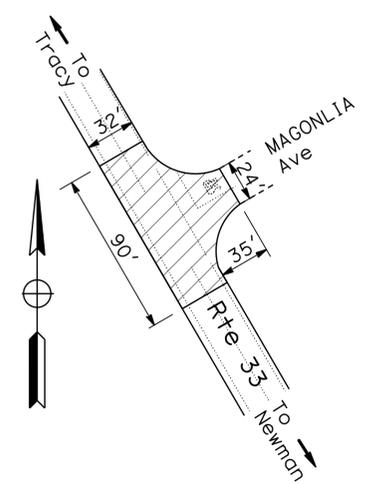
PM 14.70
EUCALYPTUS AVENUE



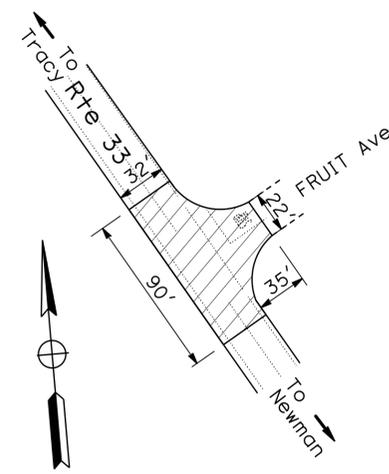
PM 14.86
ZACHARIAS ROAD



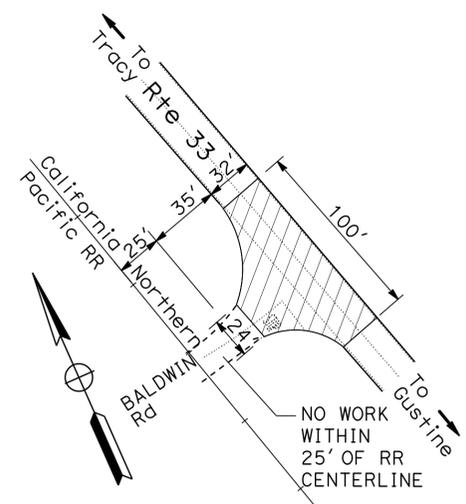
PM 15.20
LEMON AVENUE



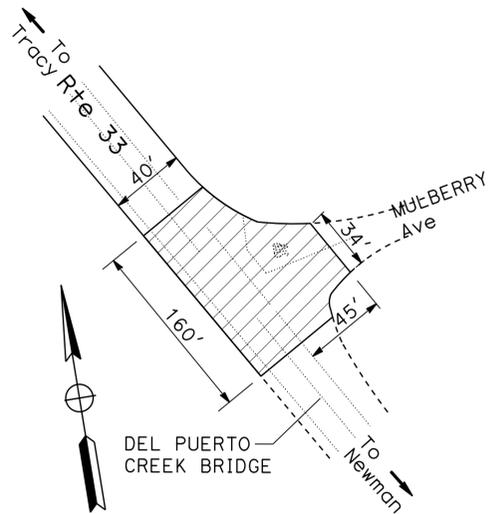
PM 15.70
MAGNOLIA AVENUE



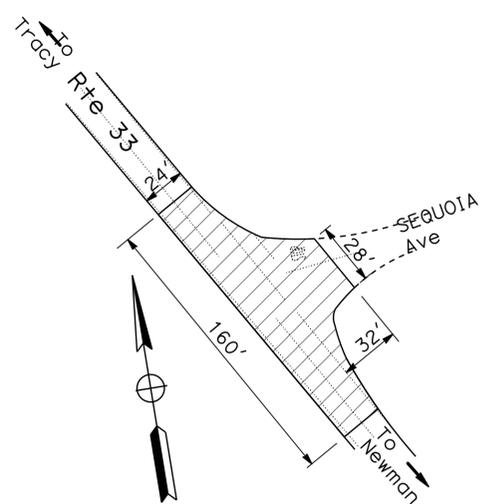
PM 16.20
FRUIT AVENUE



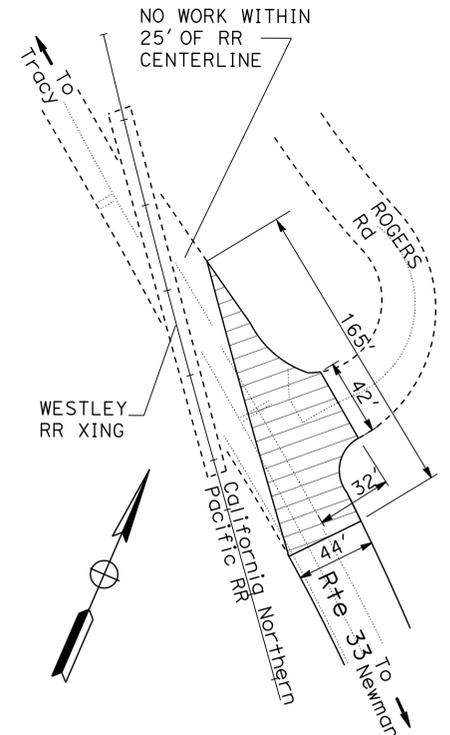
PM 16.43
BALDWIN ROAD



PM 16.56
MULBERRY AVENUE



PM 17.32
SEQUOIA AVENUE



PM 17.93
RODGERS ROAD

PAVING LIMITS

CONSTRUCTION DETAILS

NO SCALE

C-2

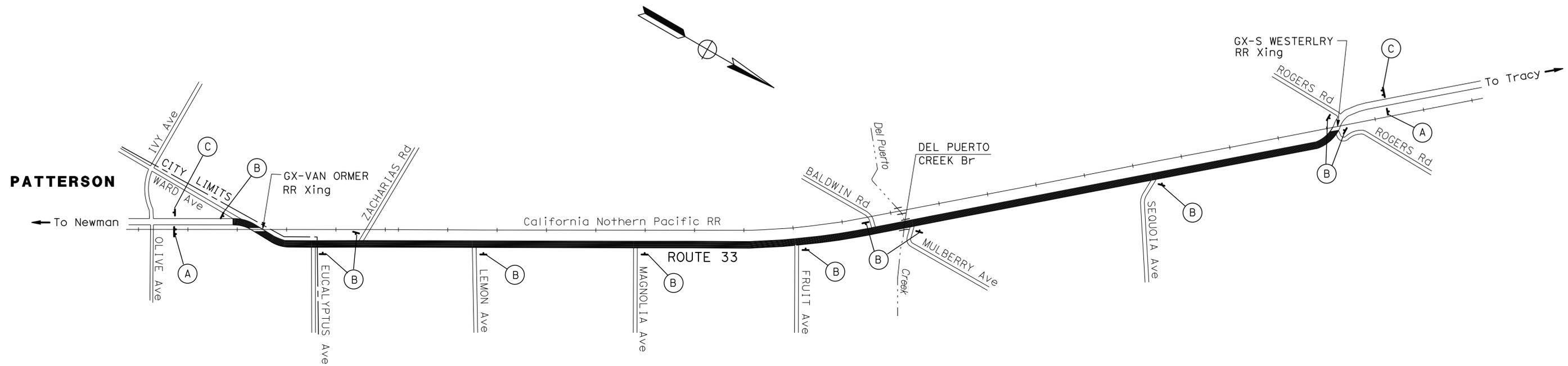


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	14.5/7.9	5	10

JAAlicea II 9/26/13
 REGISTERED CIVIL ENGINEER DATE
 11/12/13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 JOSE A. ALICEA II
 No. 64817
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
	FEDERAL				
(A)	G20-1	60" x 36"	2 - 4" x 6"	2	ROAD WORK NEXT 4 MILES
(B)	W20-1	36" x 36"	1 - 4" x 6"	11	ROAD WORK AHEAD
(C)	G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE
 FUNCTIONAL SUPERVISOR ALVIN MANGINDIN
 CALCULATED/DESIGNED BY CHECKED BY
 JOSE A. ALICEA II BRUCE G. SUMIDA
 REVISED BY DATE REVISED
 JAA 09/26/13

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR
 ALVIN MANGINDIN
 CALCULATED/DESIGNED BY
 CHECKED BY
 JOSE A. ALICEA II
 BRUCE G. SUMIDA
 REVISED BY
 DATE REVISED
 JAA
 09/26/13

NOTES:

- * - TOTAL INCLUDED IN ROADWAY ITEMS TABLE.
- (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
- TRAFFIC MANAGEMENT SYSTEM ELEMENTS LOCATIONS AREA APPROXIMATE.

ABBREVIATION:

HMA, SP (TYPE A) - HOT MIX ASPHALT, SUPERPAVE (TYPE A)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	14.5/17.9	6	10

REGISTERED CIVIL ENGINEER
 JOSE A. ALICEA II
 No. 64817
 Exp. 6/30/15
 CIVIL
 9/26/13
 DATE
 11/12/13
 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.

CONFORM TAPERS

LOCATION			LENGTH	WIDTH	COLD PLANE AC Pvm†	HMA, SP (TYPE A)
PM	SIDE	DESCRIPTION			SQYD	TON
14.56	BOTH	VAN ORMER RR CROSSING	135'	24'	360	37
16.54	BOTH	DEL PUERTO CREEK Br (APPROACH)	120'	40'	533	54
17.90	BOTH	Rte 33 (END CONSTRUCTION)	50'	32'	178	18
TOTAL					1,071*	109*

CONFORM TAPERS AT INTERSECTIONS

LOCATION			LENGTH	WIDTH	COLD PLANE AC Pvm†	HMA, SP (TYPE A)
PM	SIDE	DESCRIPTION			SQYD	TON
14.52	L+	WARD AVENUE	125'	24'	465	126
14.52	CENTER	WARD AVENUE	355'	24'	947	160
14.70	R+	EUCALYPTUS AVENUE	28'	22'	114	31
14.70	CENTER	EUCALYPTUS AVENUE	32'	90'	320	54
14.86	L+	ZACHARIAS ROAD	30'	28'	177	48
14.86	CENTER	ZACHARIAS ROAD	32'	100'	356	60
15.20	R+	LEMON AVENUE	28'	22'	115	31
15.20	CENTER	LEMON AVENUE	32'	90'	320	54
15.70	R+	MAGNOLIA AVENUE	35'	24'	115	31
15.70	CENTER	MAGNOLIA AVENUE	32'	90'	320	54
16.20	R+	FRUIT AVENUE	35'	22'	115	31
16.20	CENTER	FRUIT AVENUE	32'	90'	320	54
16.43	L+	BALDWIN ROAD	35'	24'	152	42
16.43	CENTER	BALDWIN ROAD	32'	100'	356	60
16.56	R+	MULBERRY AVENUE	45'	34'	154	42
16.56	CENTER	MULBERRY AVENUE	40'	100'	516	87
17.32	R+	SEQUOIA AVENUE	32'	28'	230	63
17.32	CENTER	SEQUOIA AVENUE	24'	160'	427	72
17.93	R+	ROGERS ROAD	32'	42'	160	44
17.93	CENTER	ROGERS ROAD	44'	165'	410	70
TOTAL					6,086*	1,214*

ROADWAY ITEMS

LOCATION	COLD PLANE AC PAVEMENT	COLD IN-PLACE RECYCLING	HOT MIX ASPHALT, SUPERPAVE (TYPE A)	TACK COAT	CEMENT (COLD IN-PLACE RECYCLING)	EMULSIFIED RECYCLING AGENT (COLD IN-PLACE RECYCLING)	ASPHALTIC EMULSION (COLD IN-PLACE RECYCLING)	SAND COVER (COLD IN-PLACE RECYCLING)	SHOULDER BACKING	SQYD	TON
										PM 14.5/17.9	50,620
CONFORM TAPERS	1,071		109	1							
CONFORM TAPERS AT INTERSECTIONS	6,086		1,214	2							
CONFORM TAPERS AT PRIVATE DRIVEWAYS			8	1							
TOTAL	7,158	50,620	7,535	24	82	390	15	103	1,940		

PAVEMENT DELINEATION ITEMS

LOCATION	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)					PAVEMENT MARKER (RETROREFLECTIVE)				THERMOPLASTIC PAVEMENT MARKING			
	4" WHITE		4" YELLOW			TYPE D		TYPE H	LIMIT LINE	STOP	RR XING SYMBOL	RR XING LIMIT LINE	
	DETAIL 27B	DETAIL 27C	DETAIL 6	DETAIL 19	DETAIL 22	DETAIL 6	DETAIL 19	DETAIL 22					
PM	LF					EA				SQFT			
14.5/17.9	36,748	945	11,036	5,017	2,644	236	223	236	218	334	220	210	400
TOTAL	56,390					802				1,164			

SUMMARY OF QUANTITIES

Q-1



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

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

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

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	14.5/17.9	7	10

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 11/12/13

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

TABLE A

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

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

TABLE B

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

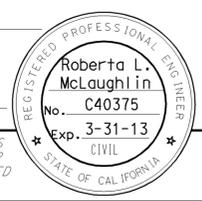
* For use on a sign panel only

STATE OF CALIFORNIA
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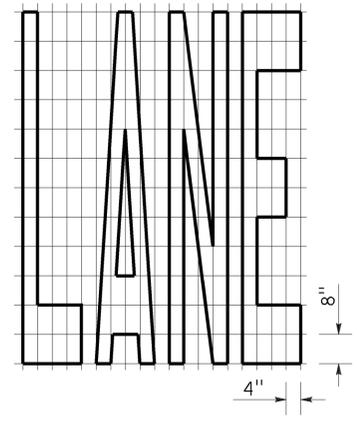
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

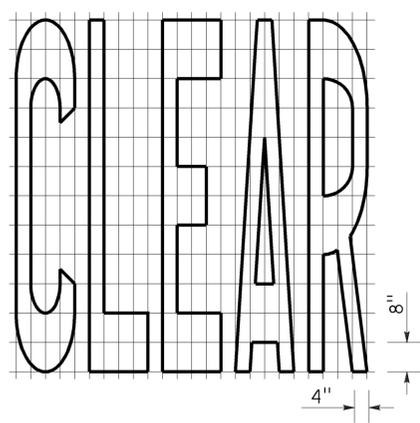
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.



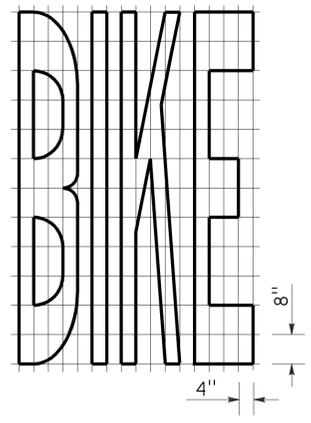
TO ACCOMPANY PLANS DATED 11/12/13



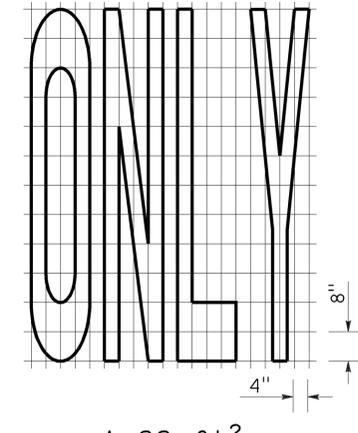
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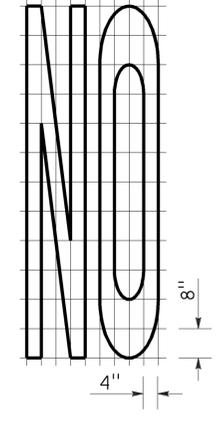
A=27 ft²



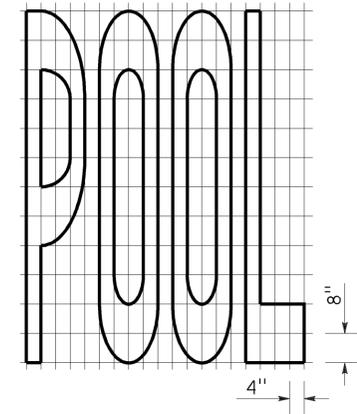
A=21 ft²



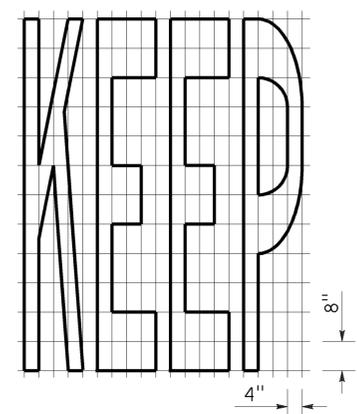
A=22 ft²



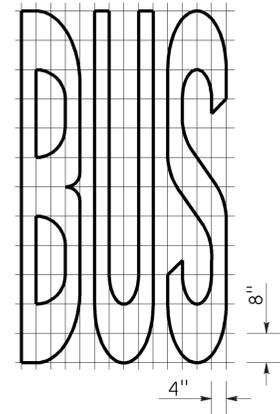
A=14 ft²



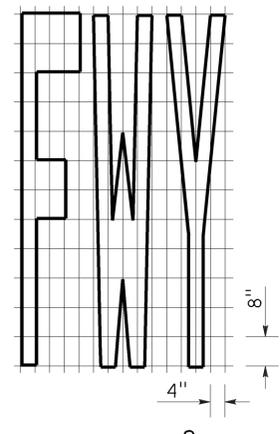
A=23 ft²



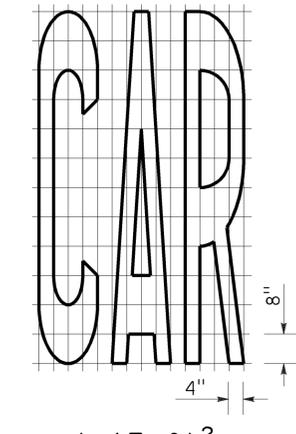
A=24 ft²



A=20 ft²

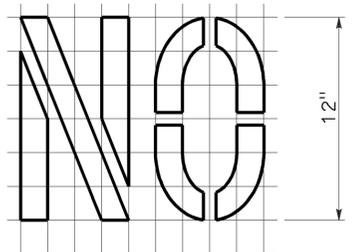


A=16 ft²



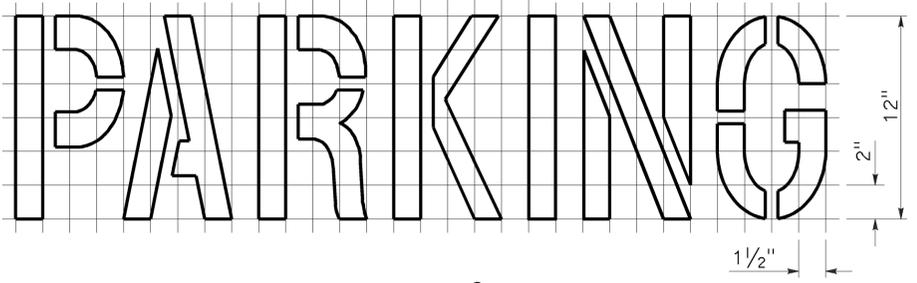
A=17 ft²

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



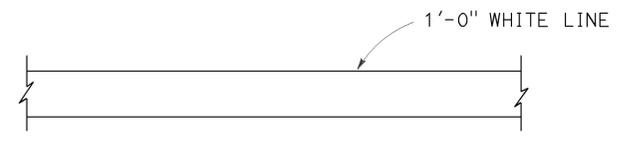
A=2 ft²

See Notes 6 and 7

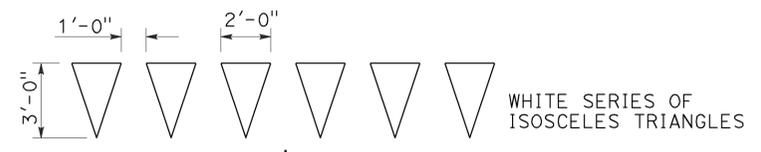


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
 WORDS, LIMIT AND YIELD LINES**
 NO SCALE

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

2010 REVISED STANDARD PLAN RSP A24E

NOTES:

See Revised Standard Plan RSP T9 for tables.

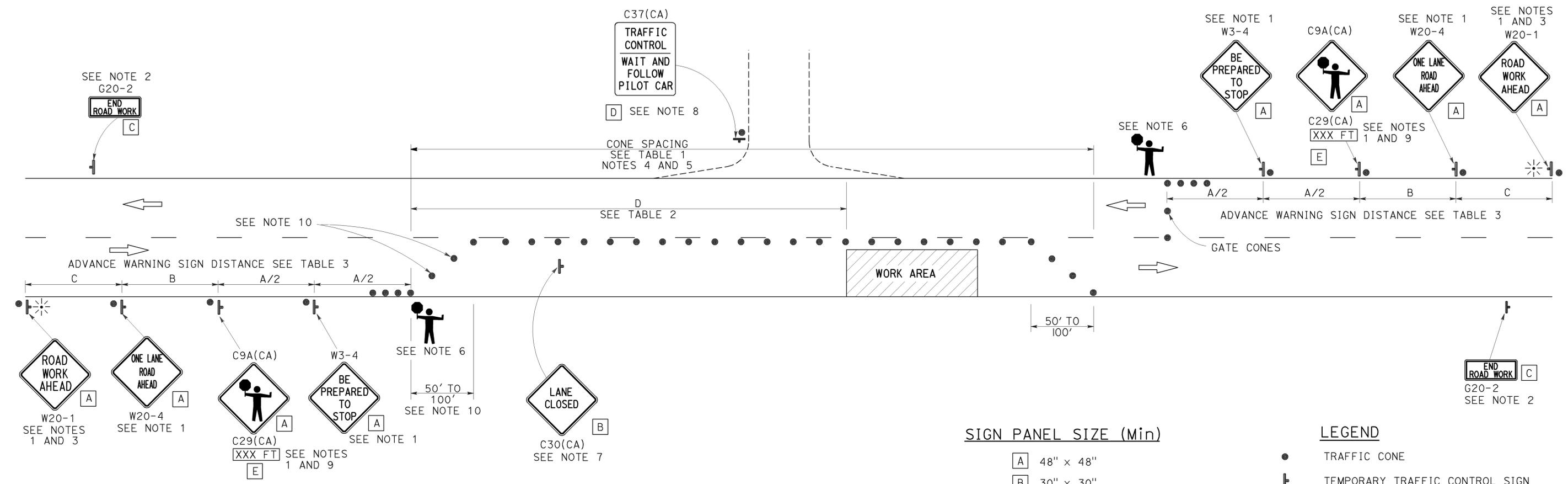
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 11/12/13



NOTES:

- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

SIGN PANEL SIZE (Min)

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

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ☼ PORTABLE FLASHING BEACON
- 👤 FLAGGER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

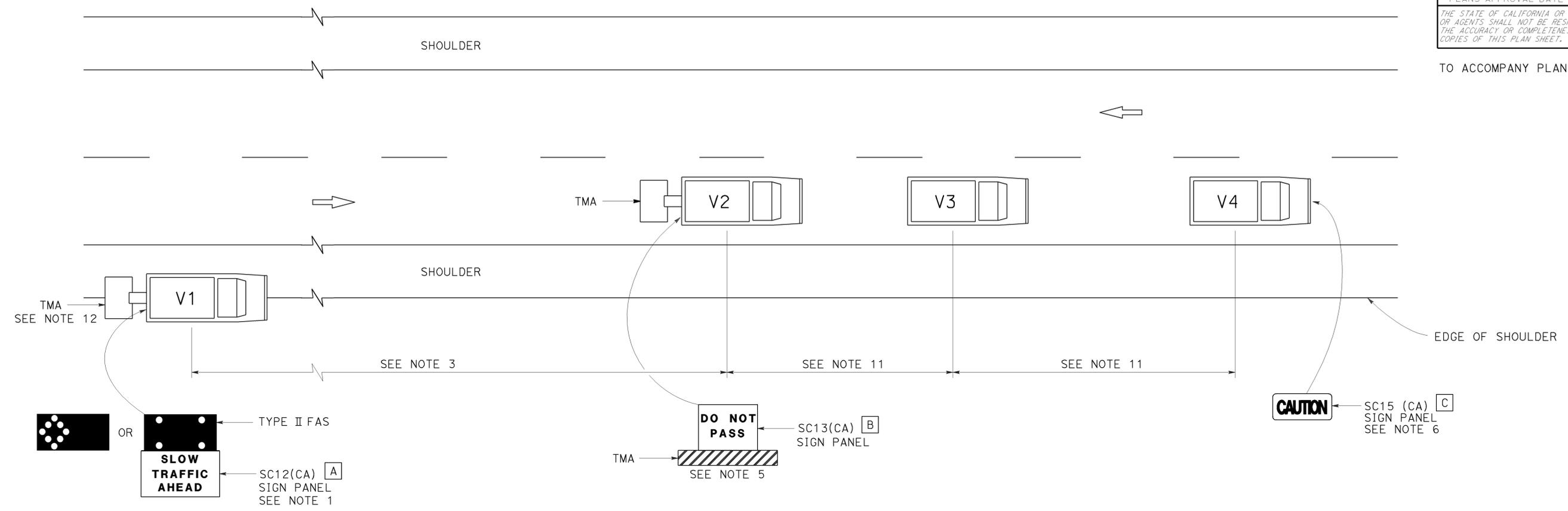
NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13
DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

TO ACCOMPANY PLANS DATED 11/12/13



NOTES:

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

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

LEGEND

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

SIGN PANEL SIZE (Min)

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

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

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

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17