

INDEX OF PLANS

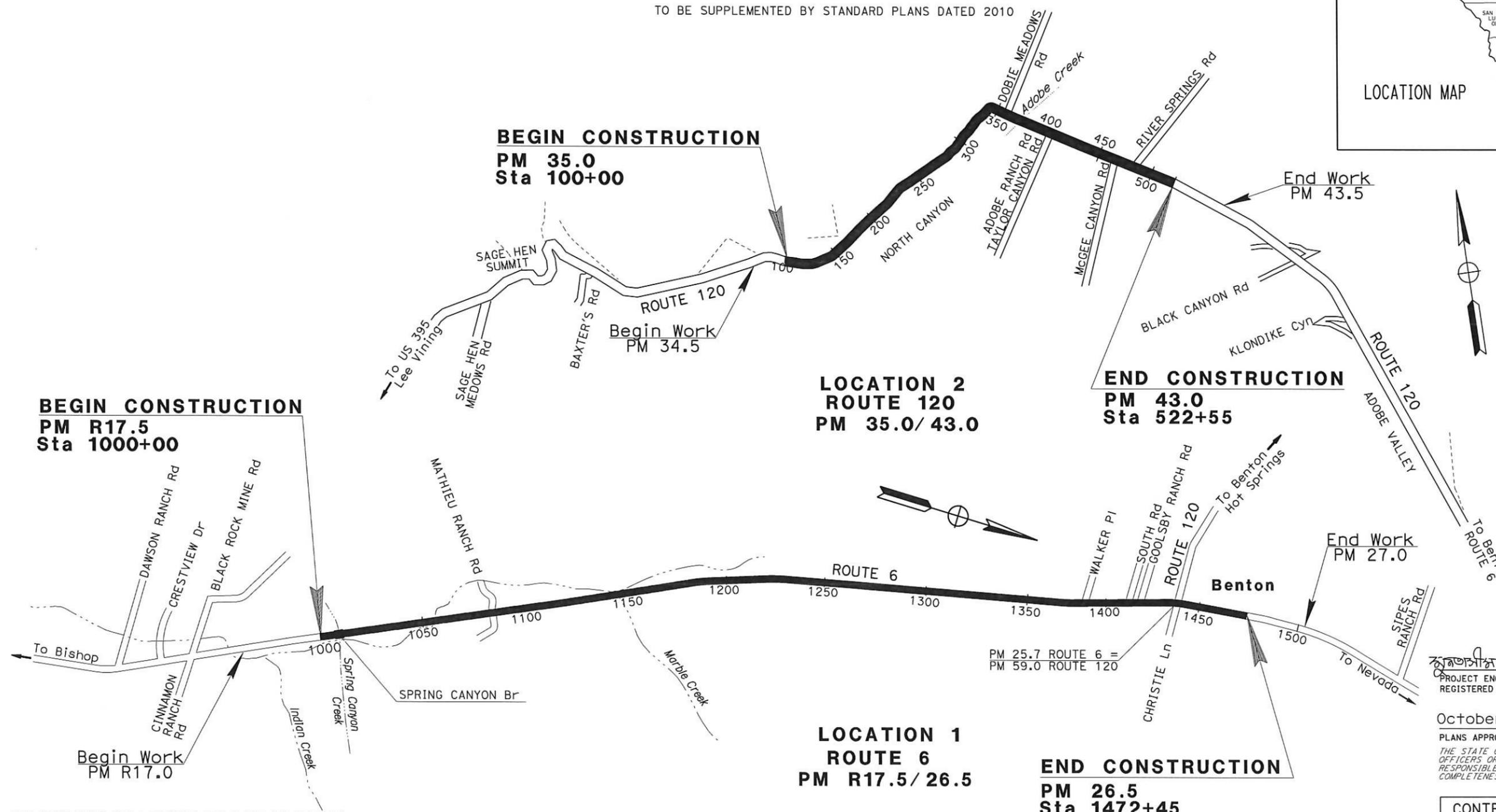
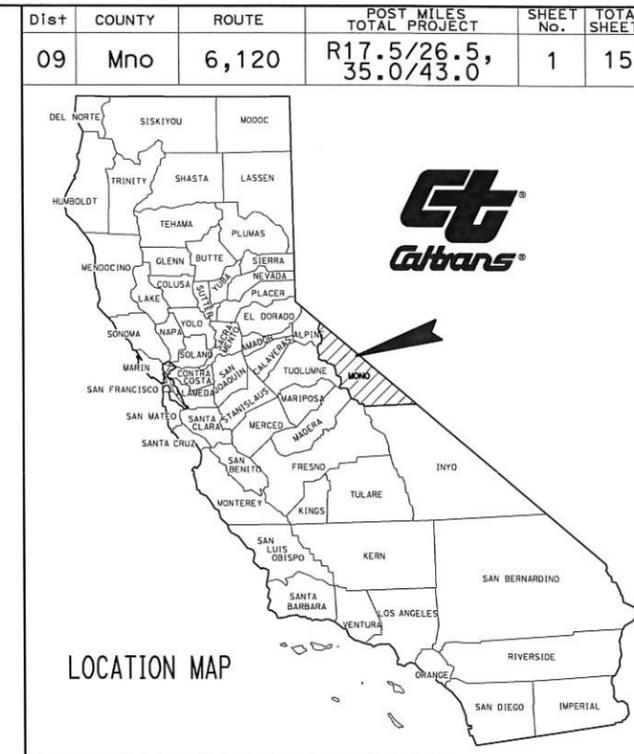
SHEET No	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-4	CONSTRUCTION DETAILS
5	TEMPORARY WATER POLLUTION CONTROL DETAILS
6	TEMPORARY WATER POLLUTION CONTROL QUANTITIES
7	CONSTRUCTION AREA SIGNS
8	SUMMARY OF QUANTITIES
9-15	REVISED STANDARD PLANS

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 MONO COUNTY
AT AND NEAR BENTON ON ROUTE 6 FROM
0.4 MILE SOUTH OF SPRING CANYON BRIDGE TO 0.8 MILE
NORTH OF ROUTE 120 AND ON ROUTE 120 ABOUT 16 MILES
WEST OF BENTON FROM 3.4 MILES EAST OF BAXTER'S ROAD
TO 0.8 MILE EAST OF RIVER SPRINGS ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER
JOHN FOX

DESIGN ENGINEER
JOHN FOX

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

NO SCALE

PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER
October 26, 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.	09-361804
PROJECT ID	0915000055

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: JOHN FOX
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 MONTASHEEMA AFROZE
 NICK SPRAGUE
 REVISOR: MA
 DATE: 09-23-15

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- STATIONING SHOWN IS FOR CONSTRUCTION PURPOSES ONLY.
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.

ABBREVIATIONS:

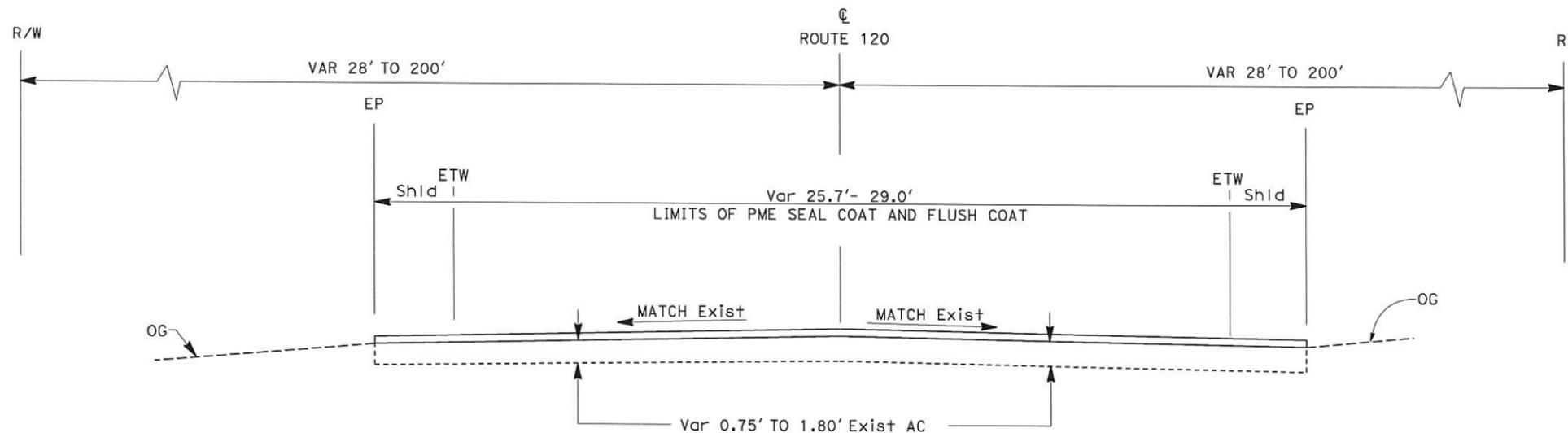
PME - POLYMER ASPHALTIC EMULSION

PAVEMENT CLIMATE REGION

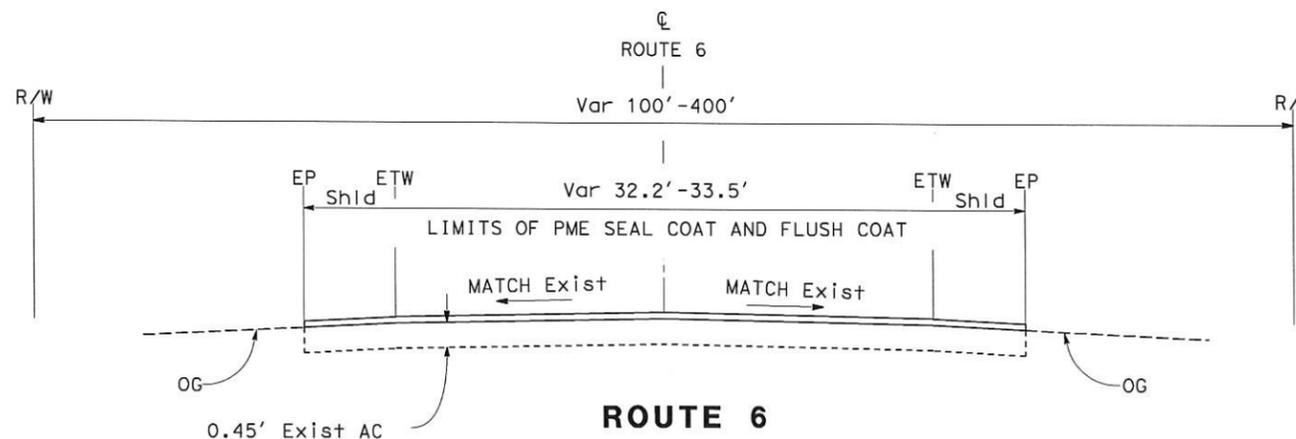
HIGH DESERT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	6,120	R17.5/26.5, 35.0/43.0	2	15

REGISTERED CIVIL ENGINEER DATE: 10-22-15
 MONTASHEEMA AFROZE No. 79286 Exp. 03-31-16 CIVIL
 PLANS APPROVAL DATE: 10-26-15
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.



ROUTE 120
 STA 100+00 TO STA 522+55
LOCATION 2



ROUTE 6
 Sta 1000+00 TO 1472+45
LOCATION 1

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

TYPICAL CROSS SECTIONS
 NO SCALE
X-1

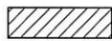
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	6, 120	R17.5/26.5, 35.0/43.0	3	15

REGISTERED CIVIL ENGINEER	DATE
10-22-15	
PLANS APPROVAL DATE	
10-26-15	

REGISTERED PROFESSIONAL ENGINEER
MONTASHEEMA AFROZE
No. 79286
Exp. 03-31-16
CIVIL
STATE OF CALIFORNIA

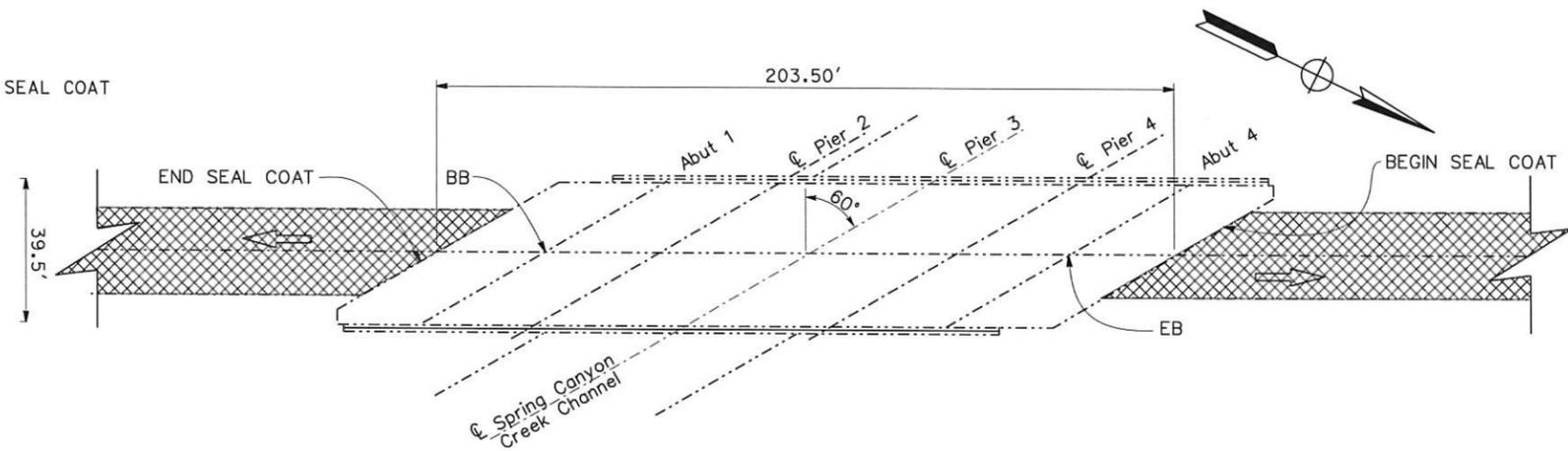
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGENDS:

-  POLYMER ASPHALTIC EMULSION SEAL COAT AND FLUSH COAT
-  YELLOW CROSSWALK MARKINGS
-  DIRECTION OF TRAVEL

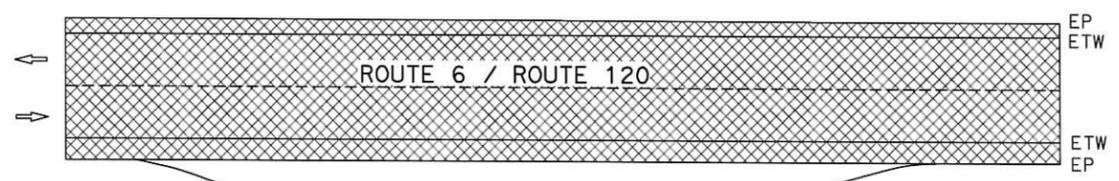
ABBREVIATIONS:

PME - POLYMER ASPHALTIC EMULSION

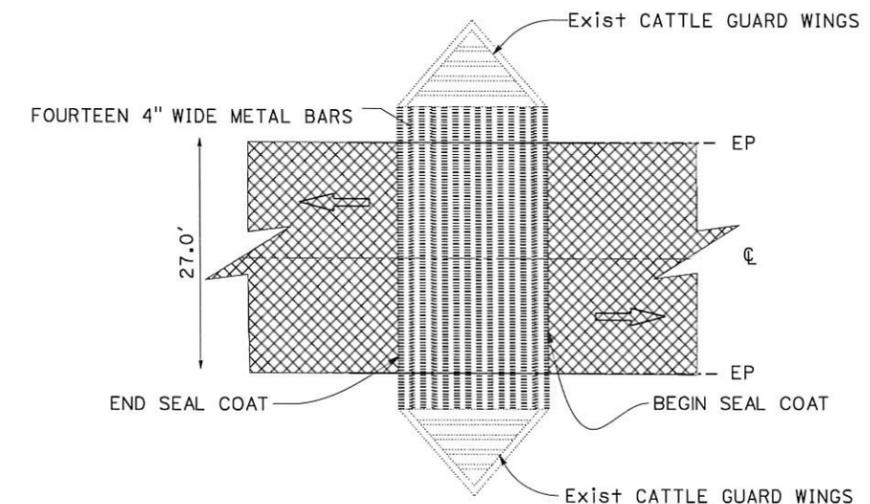
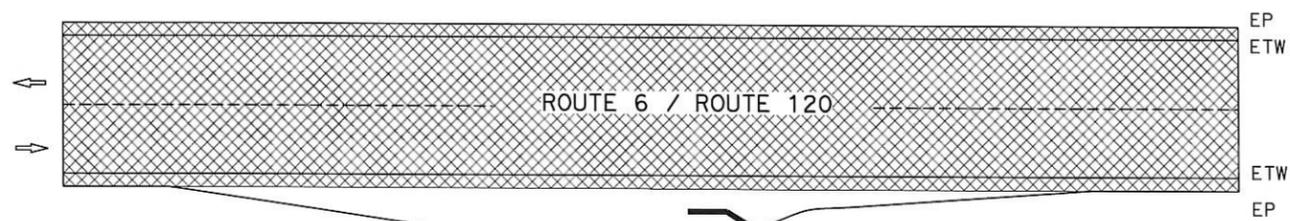


LIMITS OF PME SEAL COAT AND FLUSH COAT AT SPRING CANYON CREEK BRIDGE (Br. No. 47-0062)

ROUTE 6
Sta 1022+30 TO 1024+40



LIMITS OF PME SEAL COAT AND FLUSH COAT AT PAVED TURN-OUTS (TYPICAL)

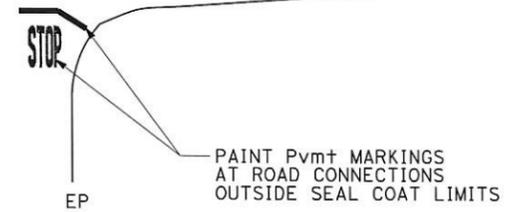


LIMITS OF PME SEAL COAT AND FLUSH COAT AT CATTLE GUARD ON ROUTE 120

PM 41.0 ; STA 416+45

LIMITS OF PME SEAL COAT AND FLUSH COAT AT ROAD CONNECTIONS (TYPICAL)

ROUTE 6	ROUTE 120
Sta 1380+48, Lt	Sta 356+60, Lt
Sta 1401+07, Lt	Sta 399+90, Rt
Sta 1406+72, Lt	Sta 460+60, Rt
Sta 1433+75, Lt, Rt	Sta 479+10, Lt



EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS
NO SCALE **C-1**

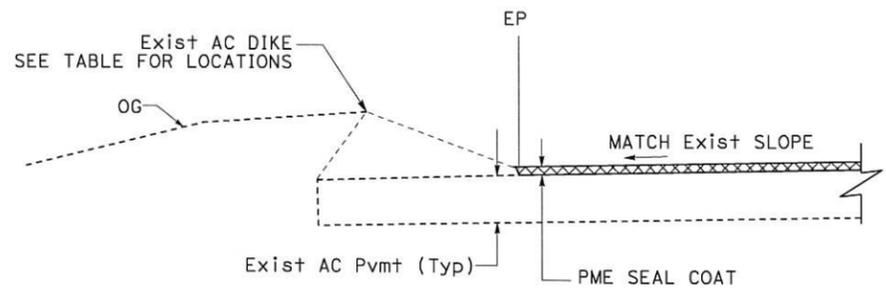
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: JOHN FOX
 CALCULATED/DESIGNED BY: MONTASHEEMA AFROZE
 CHECKED BY: NICK SPRAGUE
 MA 09-23-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	6,120	R17.5/26.5 35.0/43.0	4	15

10-26-15
 REGISTERED CIVIL ENGINEER DATE
 10-26-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MONTASHEEMA AFROZE
 No. 79286
 Exp. 03-31-16
 CIVIL
 STATE OF CALIFORNIA

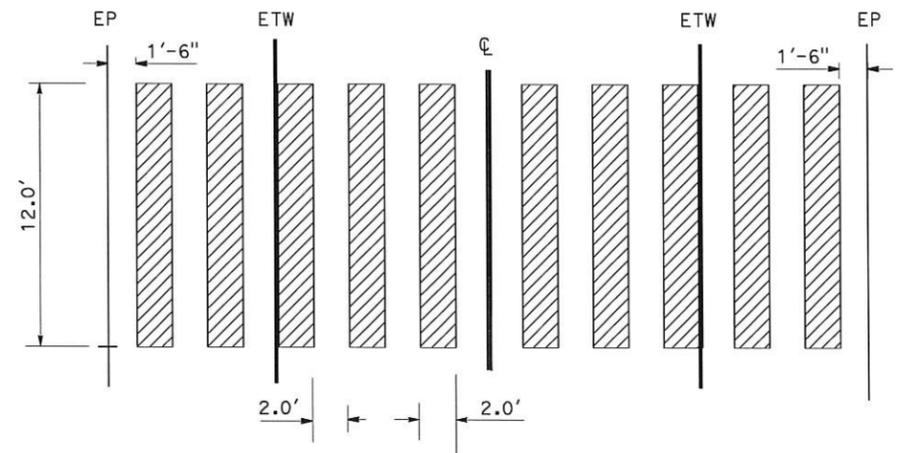
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PME SEAL COAT INTO EXISTING AC DIKE DETAIL (TYPICAL)

EXISTING AC DIKE

ROUTE	PM	STATION TO STATION		L+	R+
		FROM	TO		
120	35.10	104+50	107+60		X
	35.20	107+60	111+45	X	
	37.42	227+45	229+85		X
	38.38	278+45	282+55	X	
	38.48	283+55	286+60		X
	38.57	288+45	293+05	X	
	38.68	294+00	296+10		X
	38.72	296+10	299+10	X	
	38.79	300+00	307+16		X
	38.94	307+98	314+00	X	
	39.06	313+95	316+50		X
	39.11	316+95	320+35	X	
	39.18	320+35	326+62		X
39.31	327+53	332+55	X		



**CONTINENTAL CROSSWALK
ROUTE 6
STA 1425+80**

TABLE D

CONTINENTAL CROSSWALK					
LOCATION	ROUTE	STATION	COLOR	LF	NUMBER OF STRIPES
1	6	1425+80	YELLOW	120	10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 MONTASHEEMA AFROZE
 NICK SPRAGUE
 MA 09-23-15
 CALCULATED-DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 JOHN FOX

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS
NO SCALE **C-2**

LAST REVISION
 DATE PLOTTED => 22-OCT-2015
 TIME PLOTTED => 10:14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR JOHN FOX
 CALCULATED-DESIGNED BY CHECKED BY
 MONTASHEEMA AFROZE NICK SPRAGUE
 MA 09-23-15

NOTE:

1. EXACT LOCATION AND POSITION OF TEMPORARY DRAINAGE INLET PROTECTION & TEMPORARY FIBER ROLL AS APPROVED BY THE ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	6, 120	R17.5/26.5, 35.0/43.0	6	15

REGISTERED CIVIL ENGINEER DATE 10-22-15
 MONTASHEEMA AFROZE
 No. 79286
 Exp. 03-31-16
 CIVIL
 PLANS APPROVAL DATE 10-26-15
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.

TEMPORARY GRAVEL BAG BERM

ROUTE	POST MILE	STATION	DIRECTION	L+	R+	LF	DESCRIPTION
6	R17.65	1007+69	SB	X		6	AC OVERSIDE DRAIN
	R17.90	1021+40	SB	X		6	AC OVERSIDE DRAIN
	R17.91	1021+60	NB		X	6	AC OVERSIDE DRAIN
	R18.01	1026+98	NB		X	6	AC OVERSIDE DRAIN
	R18.03	1028+05	SB	X		6	AC OVERSIDE DRAIN
	R18.15	1034+33	NB		X	6	AC OVERSIDE DRAIN
120	35.10	104+50	EB		X	6	AC OVERSIDE DRAIN
	37.46	229+85	EB		X	6	AC OVERSIDE DRAIN
	38.54	286+60	EB		X	6	AC OVERSIDE DRAIN
	38.72	296+10	EB		X	6	AC OVERSIDE DRAIN
	38.78	299+10	WB	X		6	AC OVERSIDE DRAIN
	38.93	307+16	EB		X	6	AC OVERSIDE DRAIN
	39.10	313+95	WB		X	6	AC OVERSIDE DRAIN
	39.22	322+58	EB		X	6	AC OVERSIDE DRAIN
	39.30	326+62	EB		X	6	AC OVERSIDE DRAIN
39.41	332+55	WB		X	6	AC OVERSIDE DRAIN	
TOTAL						96	

TEMPORARY DRAINAGE INLET PROTECTION

ROUTE	POST MILE	STATION	DIRECTION	L+	R+	EA	DESCRIPTION
6	25.67	1431+50	NB		X	1	DRAINAGE INLET ON SHOULDER (R+), (SEE DETAIL ON SHEET WPCD-1)
TOTAL						1	

TEMPORARY FIBER ROLL

ROUTE	POST MILE	STATION	DIRECTION	L+	R+	No.	LF	DESCRIPTION
120	39.60	339+70-340+30	EB		X	2	60	CULVERT INLET (24" x 42" x 100' CMP)
TOTAL							120	

**TEMPORARY WATER POLLUTION CONTROL QUANTITIES
 WPCQ-1**

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

NOTES:

1. FOR SIGN INSTALLATION DETAILS AND DIMENSIONS NOT SHOWN SEE STANDARD PLANS.
2. SEE TABLE FOR PLACEMENT TYPE.
3. SIGNS IN CONFLICT WITH ADJACENT, ON-GOING PROJECTS SHALL BE COVERED UPON INSTALLATION.
4. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	6,120	R17.5/26.5, 35.0/43.0	7	15

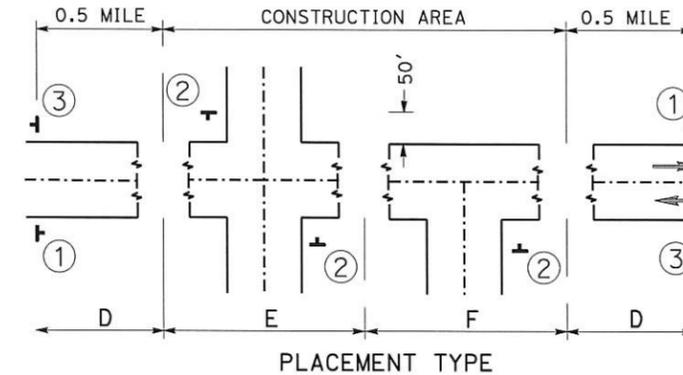
REGISTERED CIVIL ENGINEER DATE 10-22-15

10-26-15
PLANS APPROVAL DATE

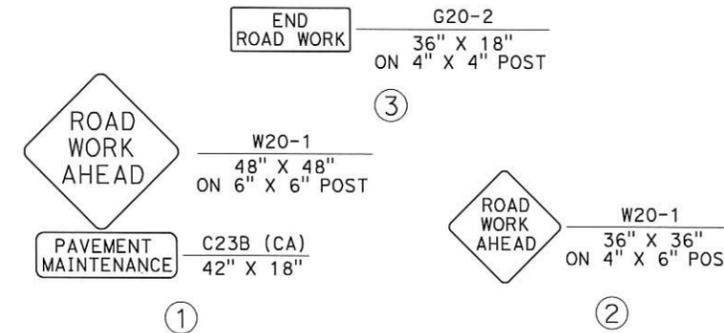
MONTASHEEMA AFROZE
No. 79286
Exp. 03-31-16
CIVIL
STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS				
ROUTE	PM	Sta	PLACEMENT	REMARKS
6	R17.000		D	BEGIN/END WORK
	24.706	1380+48	F	WALKER PLACE, Lt
	25.096	1401+07	F	SOUTH Rd, Lt
	25.203	1406+72	F	GOOLSBY RANCH Rd, Lt
	25.715	1433+75	E	JUNCTION WITH ROUTE 120, Lt, CHRISTY LANE, Rt
120	27.000		D	END/BEGIN WORK
	34.500		D	BEGIN/END WORK
	39.860	356+60	F	DOBE MEADOWS Rd, Lt
	40.680	399+90	F	ADOBE RANCH Rd, Rt
	41.830	460+60	F	McGEE CANYON Rd, Rt
	42.180	479+10	F	RIVER SPRINGS Rd, Lt
	43.500		D	END/BEGIN WORK



TYPICAL SIGN PLACEMENT FOR UNDIVIDED HIGHWAY



TYPICAL SIGN LAYOUT

PORTABLE CHANGEABLE MESSAGE SIGNS		
MESSAGE FOR UNDIVIDED HIGHWAY		
USE CAUTION	PREPARE TO STOP	EXPECT 20 MINUTE DELAY

1. PORTABLE CHANGEABLE MESSAGE SIGN LOCATIONS TO BE CONFIRMED BY THE ENGINEER BEFORE THE ACTUAL CLOSURE.
2. ALTERNATE MESSAGES MUST BE APPROVED BY THE ENGINEER.
3. MESSAGE MAY BE ALTERED BY THE ENGINEER.
4. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, PORTABLE CHANGEABLE MESSAGE SIGNS SHALL NOT DISPLAY A MESSAGE UNLESS DIRECTED BY THE ENGINEER.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
LAYOUT	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF SIGNS	No. OF POST AND SIZE
①	W20-1	48" x 48"	ROAD WORK AHEAD	4	4 - 6" x 6"
	C23B (CA) (SPECIAL)	42" x 18"	PAVEMENT MAINTENANCE	4	
②	W20-1	36" x 36"	ROAD WORK AHEAD	9	9 - 4" x 6"
③	G20-2	36" x 18"	END ROAD WORK	4	4 - 4" x 4"

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: JOHN FOX

DESIGNED BY: MONTASHEEMA AFROZE
CHECKED BY: NICK SPRAGUE

REVISOR: MA
DATE: 09-10-15

NOTE:

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

REMOVE PAINTED PAVEMENT MARKING

LOCATION	ROUTE	STATION	L+	R+	TYPE III (L) ARROW		TYPE III (R) ARROW		TYPE V ARROW		"SLOW"		"SCHOOL"		"XING"		CROSSWALK		YIELD LINE		REMARKS		
					EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT		EA (N)	SQFT
1	6	1420+10		X							1	23									NB LANE		
		1420+50		X										1	35							NB LANE	
		1420+94		X												1	21					NB LANE	
		1425+60		X															1	9			WHITE SERIES OF ISOSCELES TRIANGLES, R+
		1425+80	X	X																			EXISTING CROSSWALK
		1426+10	X																		1	9	WHITE SERIES OF ISOSCELES TRIANGLES, L+
		1428+90	X													1	21						SB LANE
		1429+35	X											1	35								SB LANE
		1430+00	X										1	23									SB LANE
		1430+55	X		1	42																	NB LANE
		1430+75	X			X					1	33											NB LANE
		1433+12	X								1	33											SB LANE
		1433+36	X	X	1	42	1	42															SB LANE
SUBTOTAL					84	42	66	46	70	42	153	18											
TOTAL					521																		

PAINT PAVEMENT MARKING (2 COAT)

LOCATION	ROUTE	STATION	L+	R+	TYPE III (L) ARROW		TYPE III (R) ARROW		TYPE V ARROW		"SLOW"		"SCHOOL"		"XING"		LIMIT LINE (12" WIDE)		"STOP"		CROSSWALK		YIELD LINE		REMARKS		
					EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT	EA (N)	SQFT		EA (N)	SQFT
1	6	1380+48	X														28	28	1	22					WALKER PLACE, L+		
		1401+07	X														31	31	1	22					SOUTH Rd, L+		
		1406+72	X														29	29	1	22					GOOLSBY RANCH Rd, L+		
		1420+10			X							1	23													NB LANE	
		1420+50			X									1	35											NB LANE	
		1420+94			X											1	21									NB LANE	
		1425+60			X																		1	9		WHITE SERIES OF ISOSCELES TRIANGLES, R+	
		1425+80	X	X																			1	240		CONTINENTAL CROSSWALK (SEE SHEET C-1)	
		1426+10	X																						1	9	WHITE SERIES OF ISOSCELES TRIANGLES, L+
		1428+90	X													1	21										SB LANE
		1429+35	X												1	35											SB LANE
		1430+00	X										1	23													SB LANE
		1430+55			X	1	42																				NB LANE
		1430+75			X						1	33															NB LANE
		1433+12	X								1	33															SB LANE
		1433+36	X	X	1	42	1	42																			SB LANE
		1433+75																55	55	2	44						JUNCTION w/ROUTE 120, L+, CHRISTY LANE, R+
2	120	356+61														27	27	1	22						DOBE MEADOWS Rd, L+		
		400+00														27	27	1	22						ADOBE RANCH Rd, R+		
		460+63														28	28	1	22						McGEE CANYON Rd, R+		
		479+10														27	27	1	22						RIVER SPRINGS Rd, L+		
SUBTOTAL					84	42	66	46	70	42	252	198	240	18													
TOTAL					1058																						

PAINT TRAFFIC STRIPE (2-COAT)

LOCATION	STATION	DETAIL NUMBER					
		5	18	21	27B	28	38A
1	1000+00 TO 1472+45	31,280	8619	6104	93,469	969	355
2	100+00 TO 522+55	5555	10,461	25,984	84,111		
SUBTOTAL		36,835	19,080	32,088	177,580	969	355
TOTAL		266,907					

ROADWAY QUANTITIES

LOCATION	STATION	POLYMER ASPHALTIC EMULSION (SEAL COAT)	SCREENINGS	SAND COVER (SEAL)	ASPHALTIC EMULSION (FOG SEAL COAT)
		TON	TON	TON	TON
1	1000+00 TO 1472+45	223	2135	256	36
2	100+00 TO 522+55	199	1576	189	26
TOTAL		422	3711	445	62

SUMMARY OF QUANTITIES Q-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	6,120	R17.5/26.5, 35.0/43.0	8	15

REGISTERED CIVIL ENGINEER DATE 10-22-15

PLANS APPROVAL DATE 10-26-15

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.

MONTASHEEMA AFROZE
No. 79286
Exp. 03-31-16
CIVIL

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	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
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	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

M

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	PERFORMED 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
Qty	QUANTITY
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

P continued

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

S

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL
UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME
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
WWL	WINGWALL LAYOUT LINE
X Sec	CROSS SECTION
Xing	CROSSING
Yr	YEAR
Yrs	YEARS

T continued

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	6,120	R17.5/26.5, 35.0/43.0	9	15

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

July 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 10-26-15

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ABBREVIATIONS
(SHEET 2 OF 2)
NO SCALE

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

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

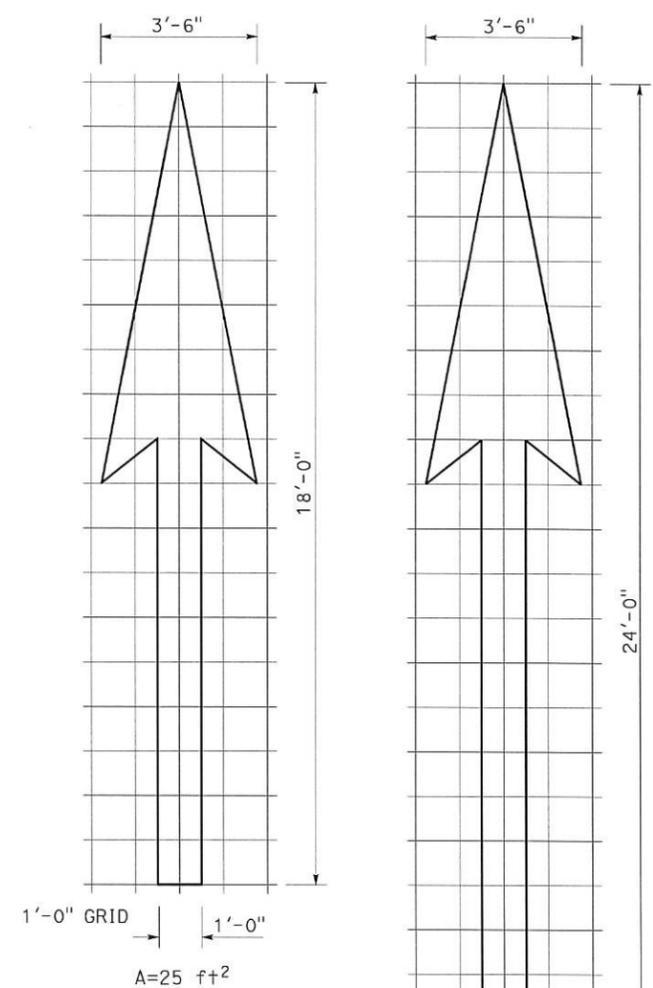
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
09	Mno	6,120	R17.5/26.5, 35.0/43.0	10 15

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

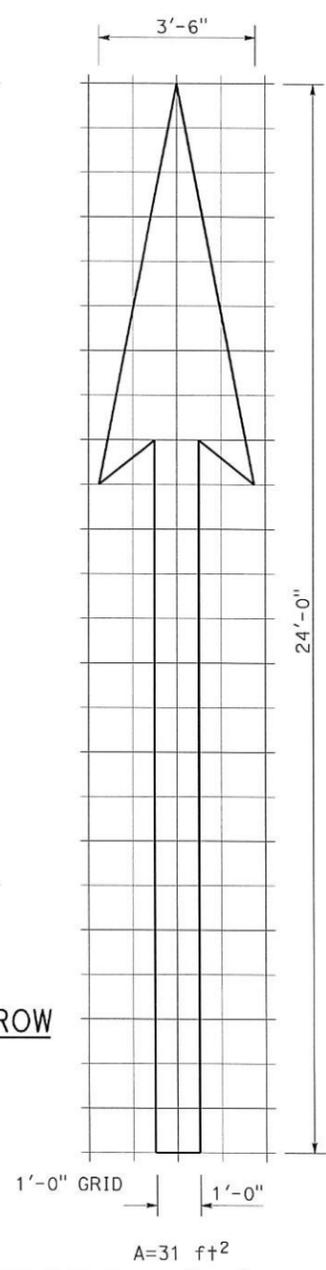
April 20, 2012
 PLANS APPROVAL DATE

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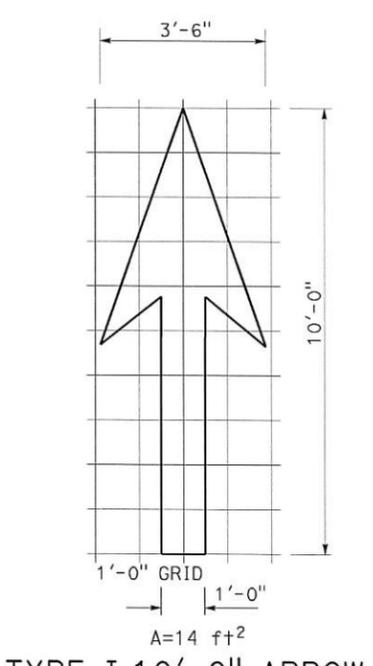
TO ACCOMPANY PLANS DATED 10-26-15



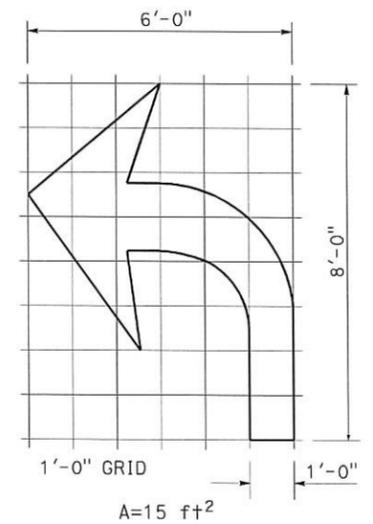
TYPE I 18'-0" ARROW



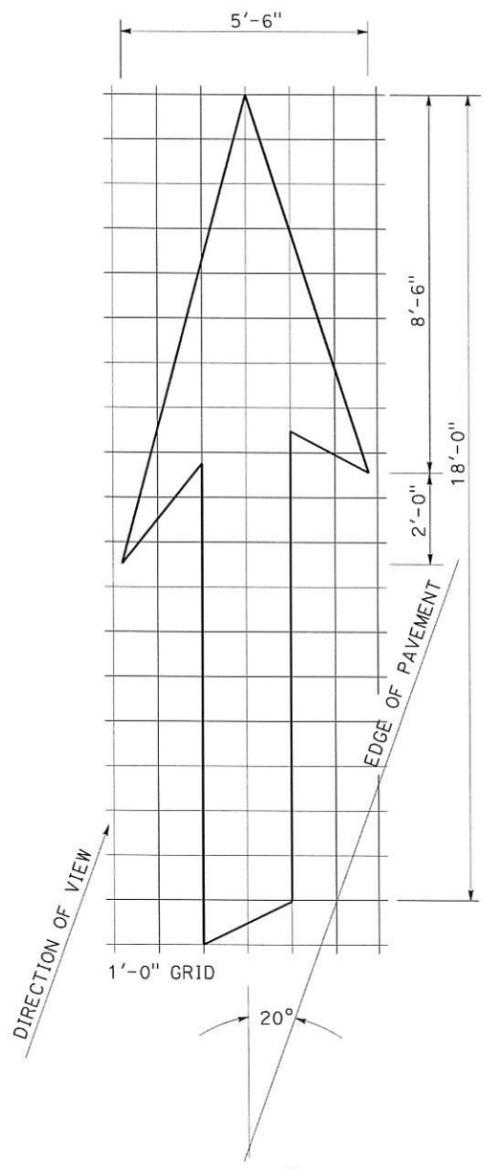
TYPE I 24'-0" ARROW



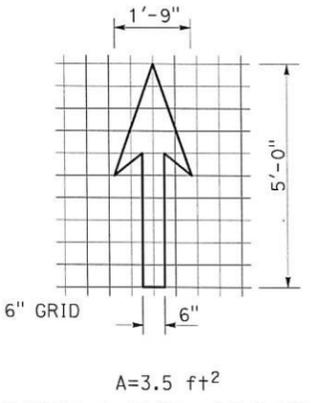
TYPE I 10'-0" ARROW



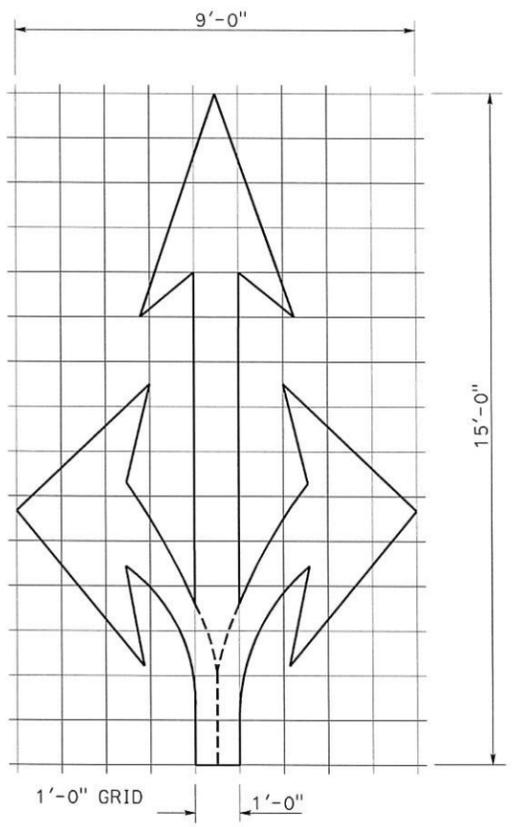
TYPE IV (L) ARROW
(For Type IV (R) arrow, use mirror image)



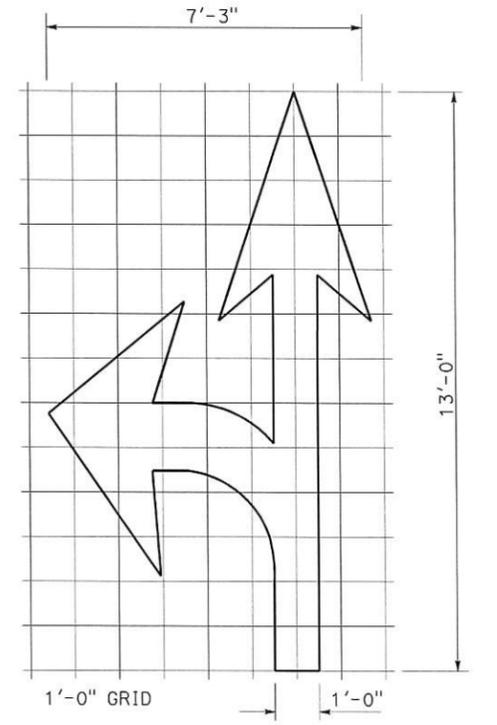
TYPE VI ARROW
Right lane drop arrow
(For left lane, use mirror image)



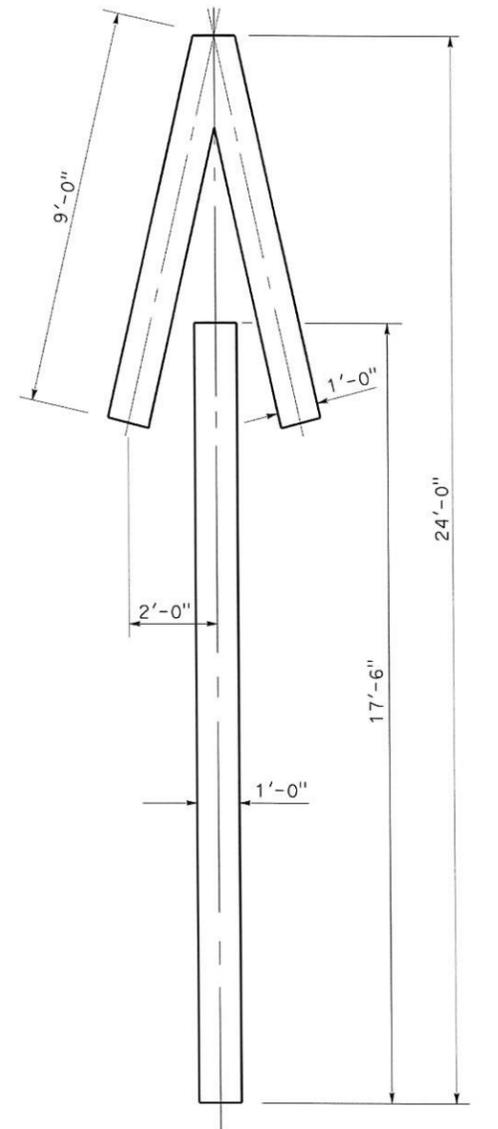
BIKE LANE ARROW



TYPE VIII ARROW



TYPE VII (L) ARROW
(For Type VII (R) arrow, use mirror image)



TYPE V ARROW

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

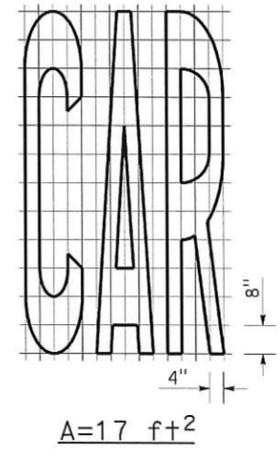
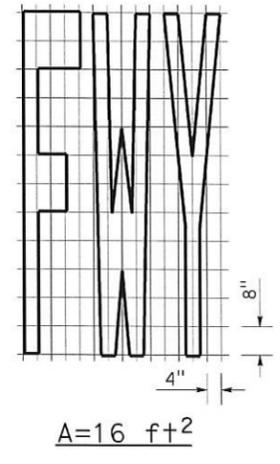
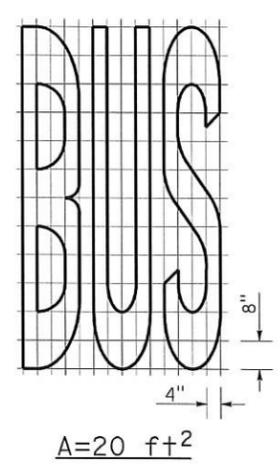
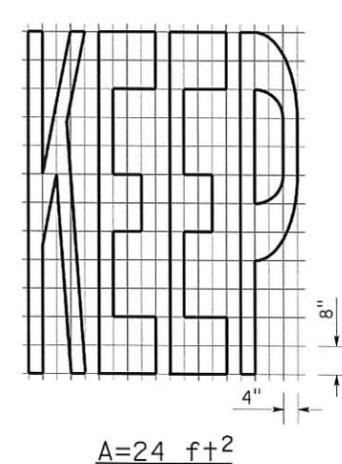
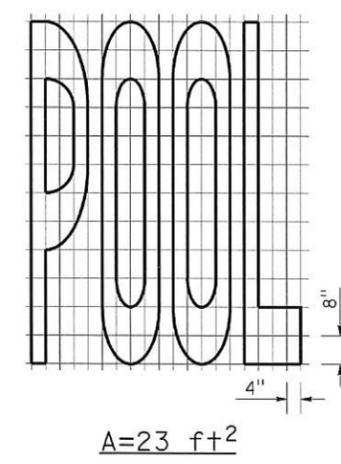
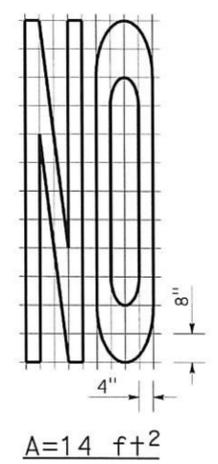
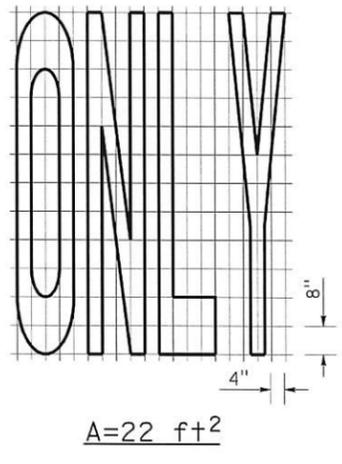
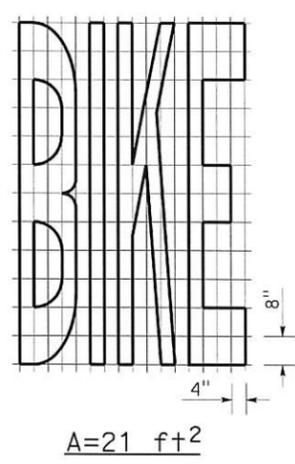
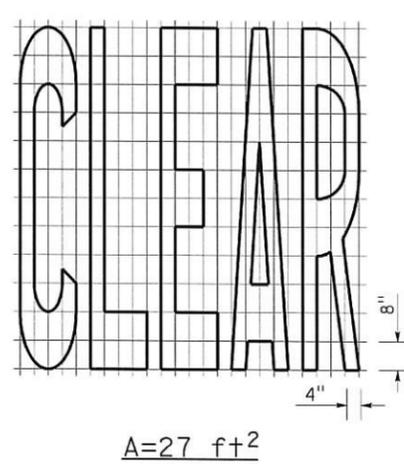
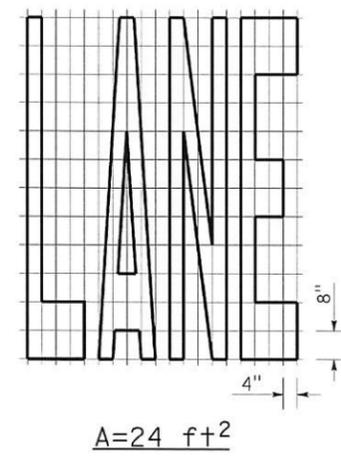
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

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

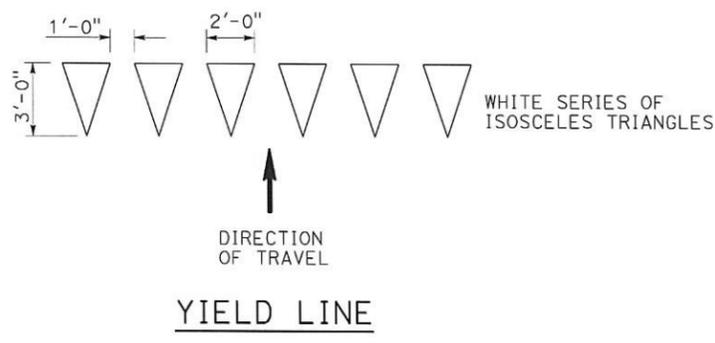
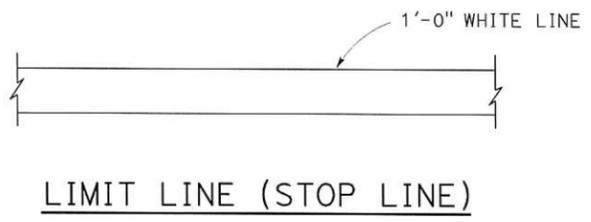
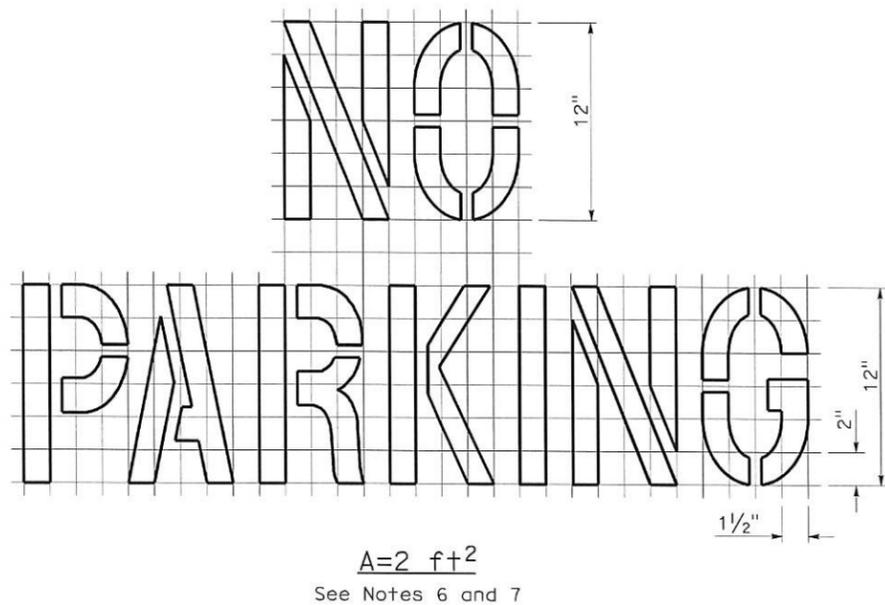
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	6,120	R17.5/26.5, 35.0/43.0	11	15

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

TO ACCOMPANY PLANS DATED 10-26-15



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



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

2010 REVISED STANDARD PLAN RSP A24E

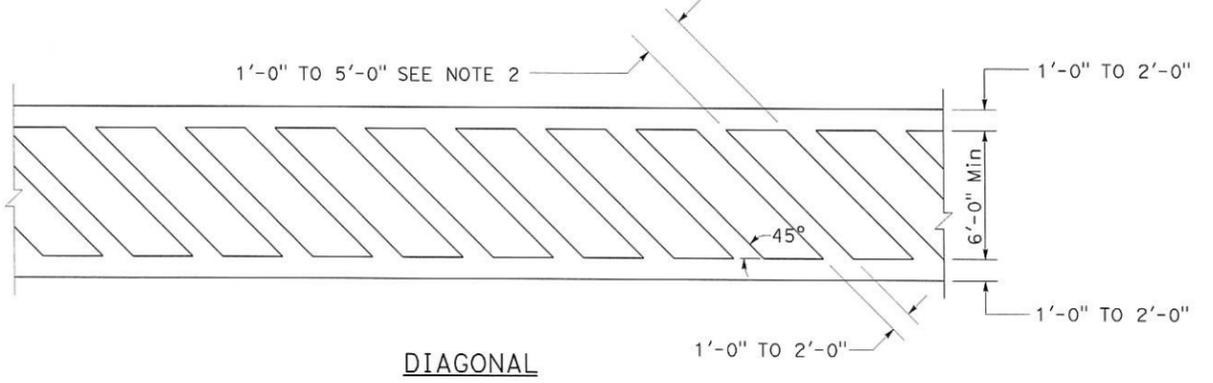
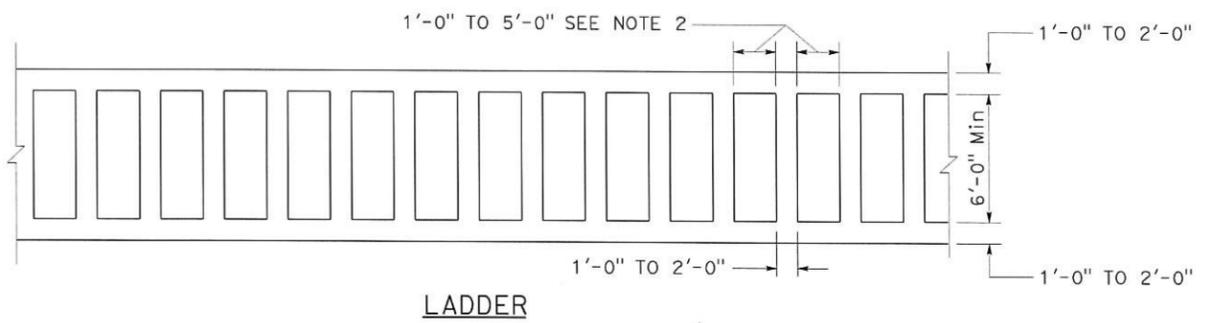
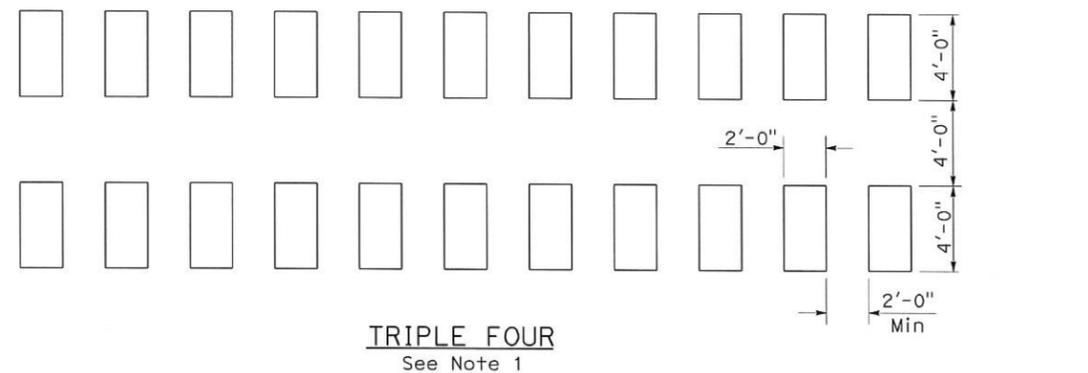
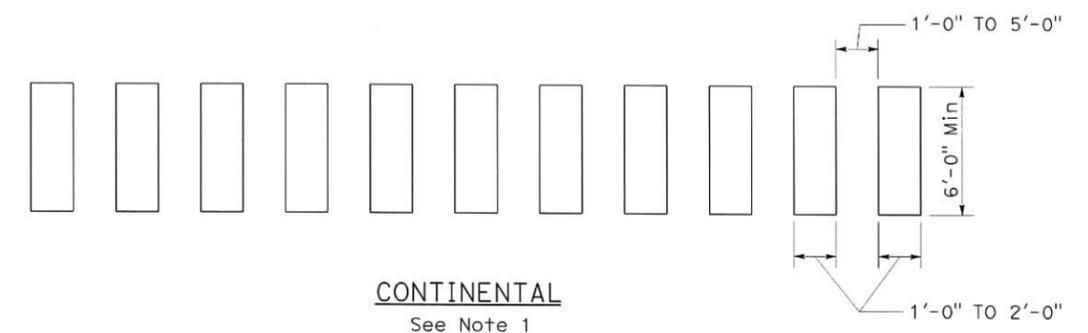
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	6,120	R17.5/26.5, 35.0/43.0	12	15

Registered Civil Engineer
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 STATE OF CALIFORNIA

July 20, 2012
 PLANS APPROVAL DATE

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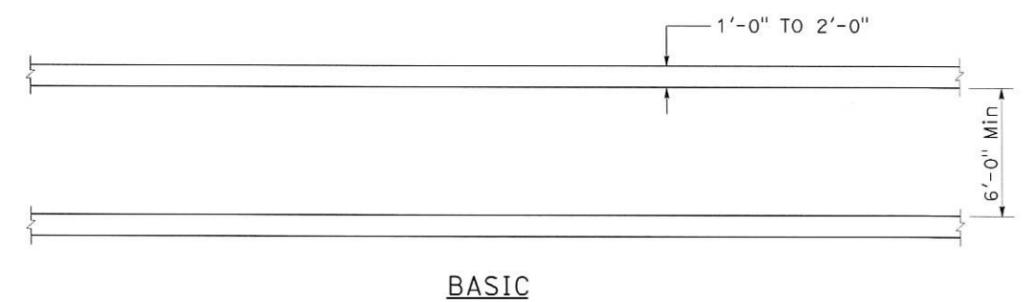
TO ACCOMPANY PLANS DATED 10-26-15



HIGHER VISIBILITY CROSSWALKS

NOTES:

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



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

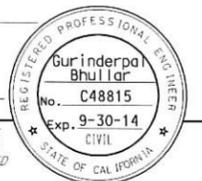
RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A24F

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	6,120	R17.5/26.5, 35.0/43.0	13	15


 REGISTERED CIVIL ENGINEER

July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 10-26-15

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

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

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

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

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
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 recommended distances.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

NO SCALE

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

REVISED STANDARD PLAN RSP T9

2010 REVISED STANDARD PLAN RSP T9

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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	6,120	R17.5/26.5, 35.0/43.0	14	15

Devinder Singh
REGISTERED CIVIL ENGINEER

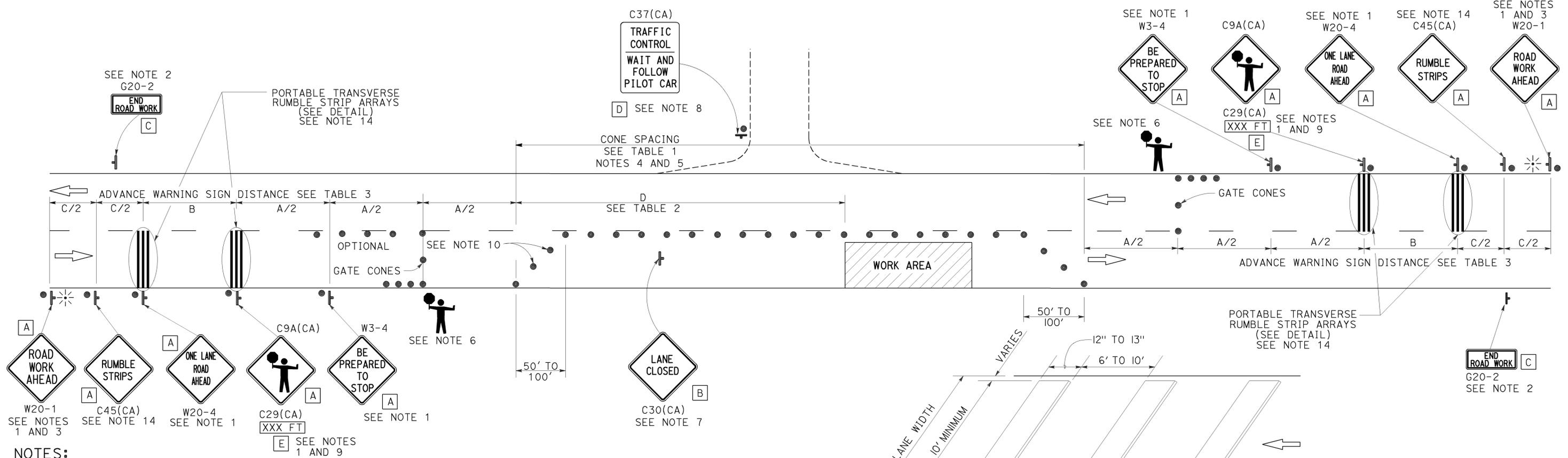
October 30, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Devinder Singh
No. C50470
Exp. 6-30-17
CIVIL
STATE OF CALIFORNIA

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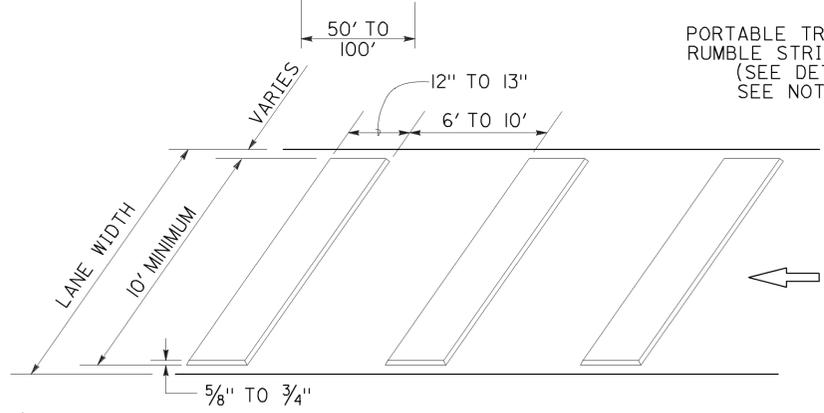
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 10-26-15



NOTES:

- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions



PORTABLE TRANSVERSE RUMBLE STRIP ARRAY DETAIL

SIGN PANEL SIZE (Min)

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

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED OCTOBER 30, 2015 SUPERSEDES RSP T13 DATED OCTOBER 17, 2014, RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	6,120	R17.5/26.5 35.0/43.0	15	15

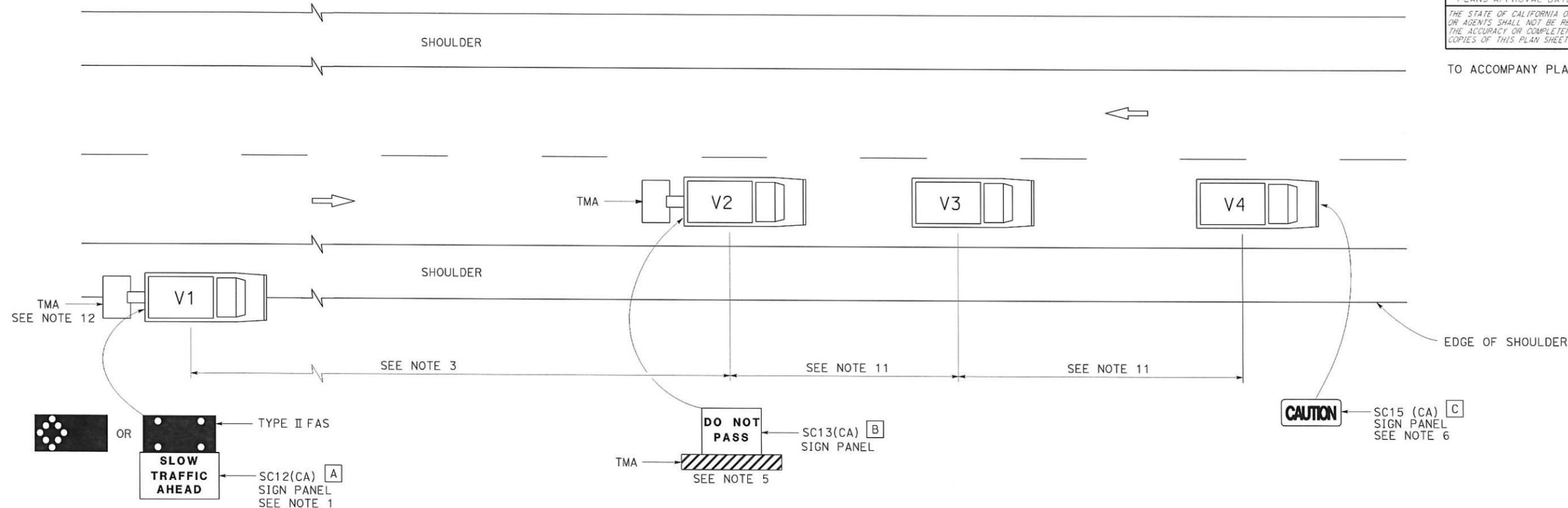
Gurinderpal Bhullar
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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



TO ACCOMPANY PLANS DATED 10-26-15



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