

STATE OF CALIFORNIA **ACNHP-P395(254)E**  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**

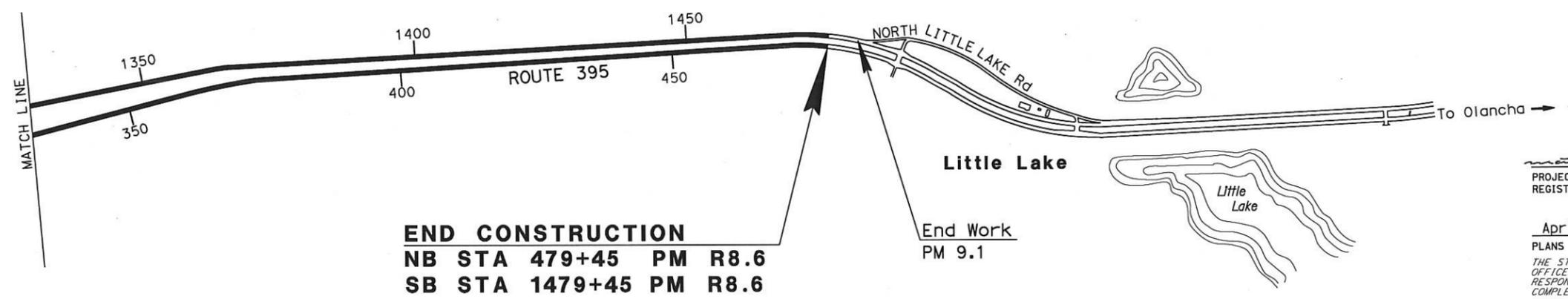
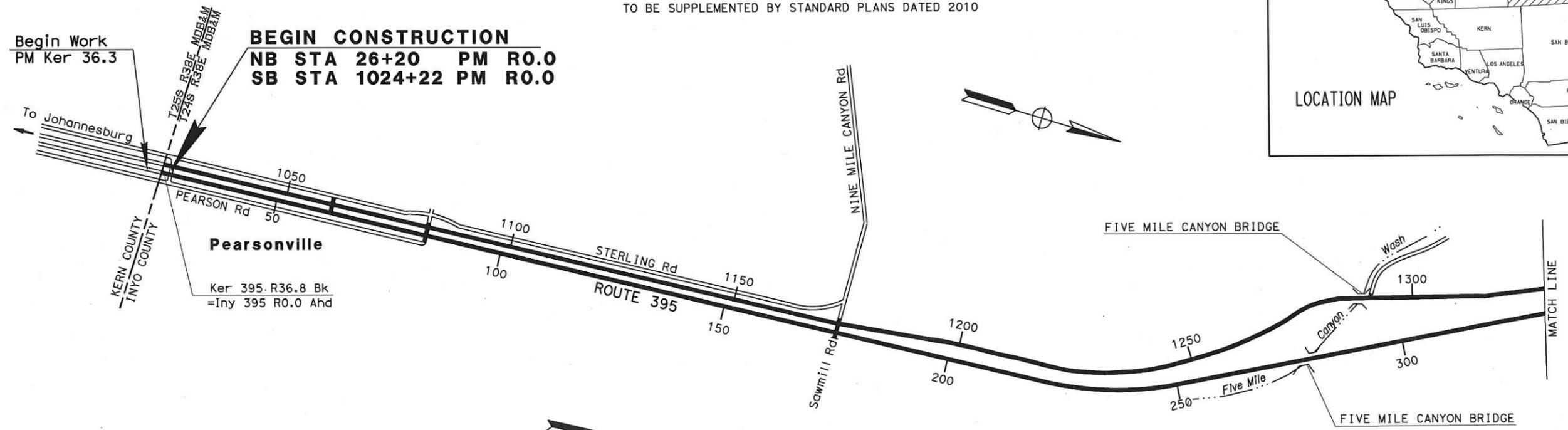
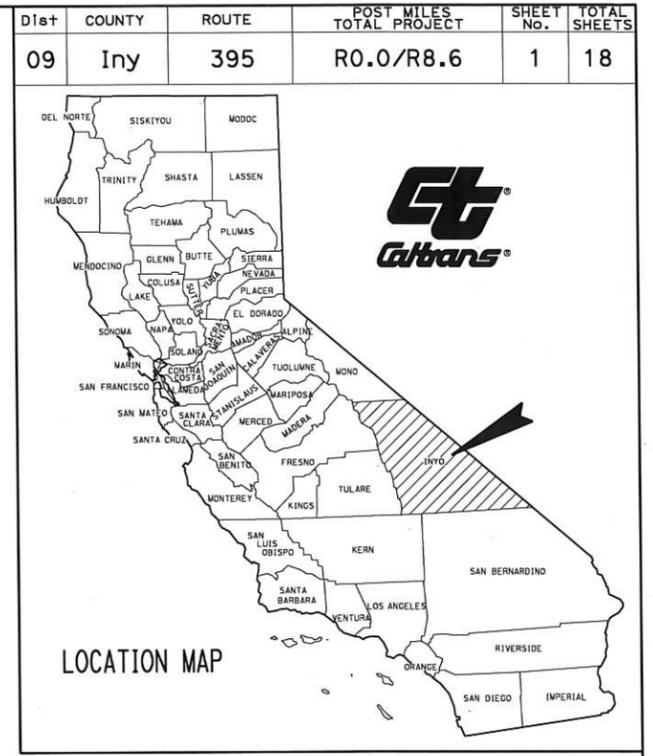
**IN INYO COUNTY NEAR PEARSONVILLE**  
**FROM KERN COUNTY LINE TO**  
**1.0 MILE SOUTH OF NORTH LITTLE LAKE ROAD**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-7	CONSTRUCTION DETAILS
8	TEMPORARY WATER POLLUTIONS
9	CONSTRUCTION AREA SIGNS
10-11	SUMMARY OF QUANTITIES
12-18	REVISED STANDARD PLANS

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



**BEGIN CONSTRUCTION**  
 NB STA 26+20 PM R0.0  
 SB STA 1024+22 PM R0.0

**END CONSTRUCTION**  
 NB STA 479+45 PM R8.6  
 SB STA 1479+45 PM R8.6

End Work  
 PM 9.1

PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER 04-20-15



April, 27 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.

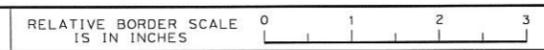
CONTRACT No.	<b>09-361404</b>
PROJECT ID	<b>0914000053</b>

NO SCALE

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

PROJECT MANAGER  
CEDRICK ZEMITTIS

DESIGN ENGINEER  
JOHN FOX



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	R0.0/R8.6	2	18

REGISTERED CIVIL ENGINEER	DATE
<i>Matthew Goike</i>	4-20-15
PLANS APPROVAL DATE	
04-27-15	

REGISTERED PROFESSIONAL ENGINEER
MATTHEW GOIKE
No. 63638
Exp. 09-30-16
CIVIL
STATE OF CALIFORNIA

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

**NOTES:**

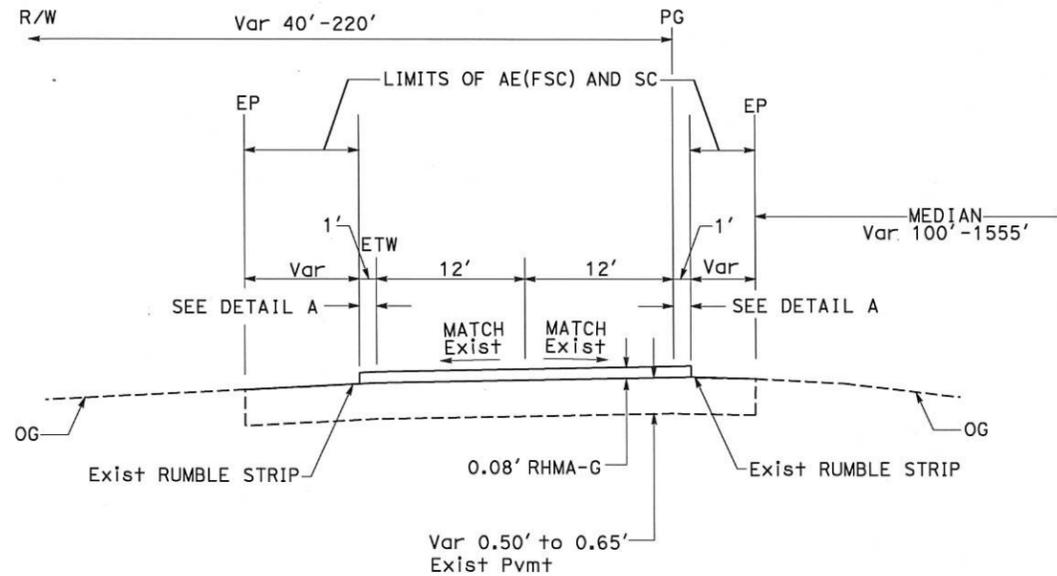
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
4. STATIONING SHOWN IS FOR CONSTRUCTION PURPOSES ONLY.
5. FOR COLD PLANE AND RHMA-G PAVING LIMITS AT BRIDGE DECKS, SEE CONSTRUCTION DETAILS.

**ABBREVIATIONS:**

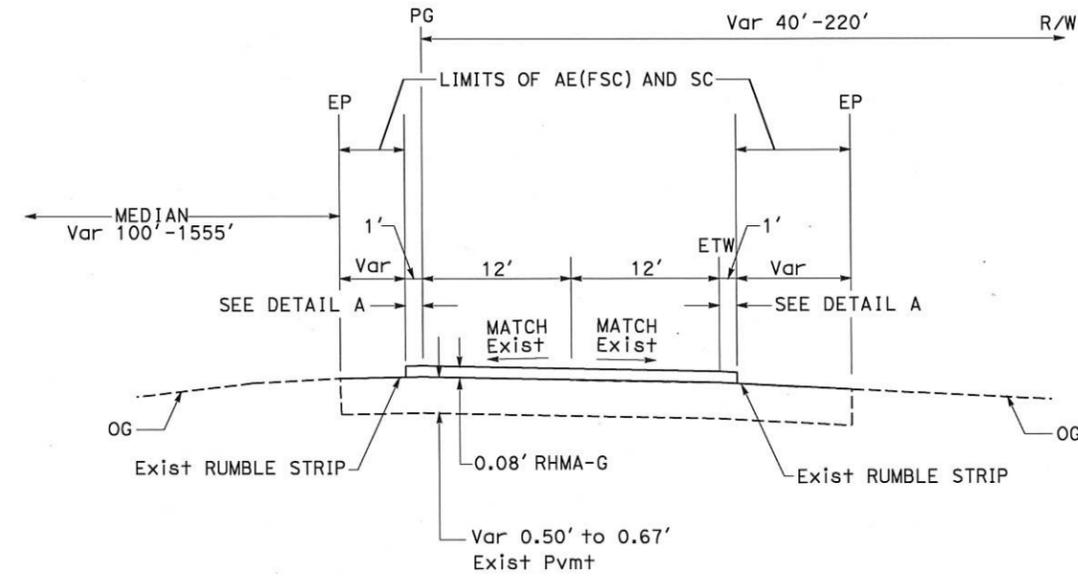
- RHMA-G - RUBBERIZED HOT MIX ASPHALT-GAP GRADED
- AE(FSC) - ASPHALTIC EMULSION (FOG SEAL COAT)
- SC - SAND COVER

**PAVEMENT CLIMATE REGION**

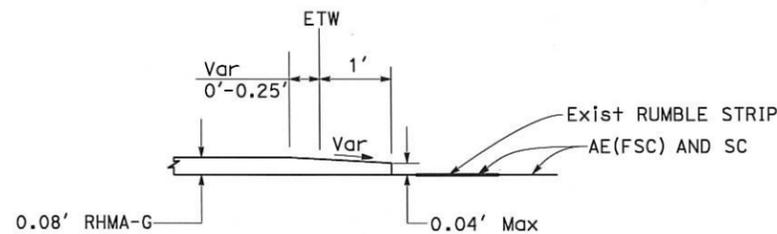
DESERT



**SB PG STA 1024+22 TO STA 1479+45**



**NB PG STA 26+20 TO STA 479+45**



**A Shld CONFORM DETAIL (Typ)**

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

**TYPICAL CROSS SECTIONS**  
NO SCALE  
**X-1**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR  
JOHN FOX

CALCULATED-DESIGNED BY  
CHECKED BY

MATTHEW GOIKE  
MALISSA REYNOLDS

REVISED BY  
DATE REVISED

4-14-15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	R0.0/R8.6	3	18

REGISTERED CIVIL ENGINEER	DATE	04-20-15
PLANS APPROVAL DATE		04-27-15

REGISTERED PROFESSIONAL ENGINEER	STATE OF CALIFORNIA
MATTHEW GOJKE	No. 63638
Exp. 09-30-16	CIVIL

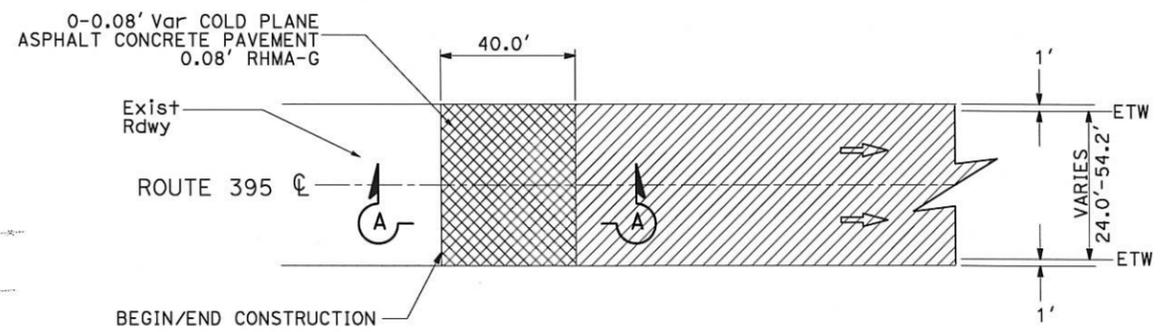
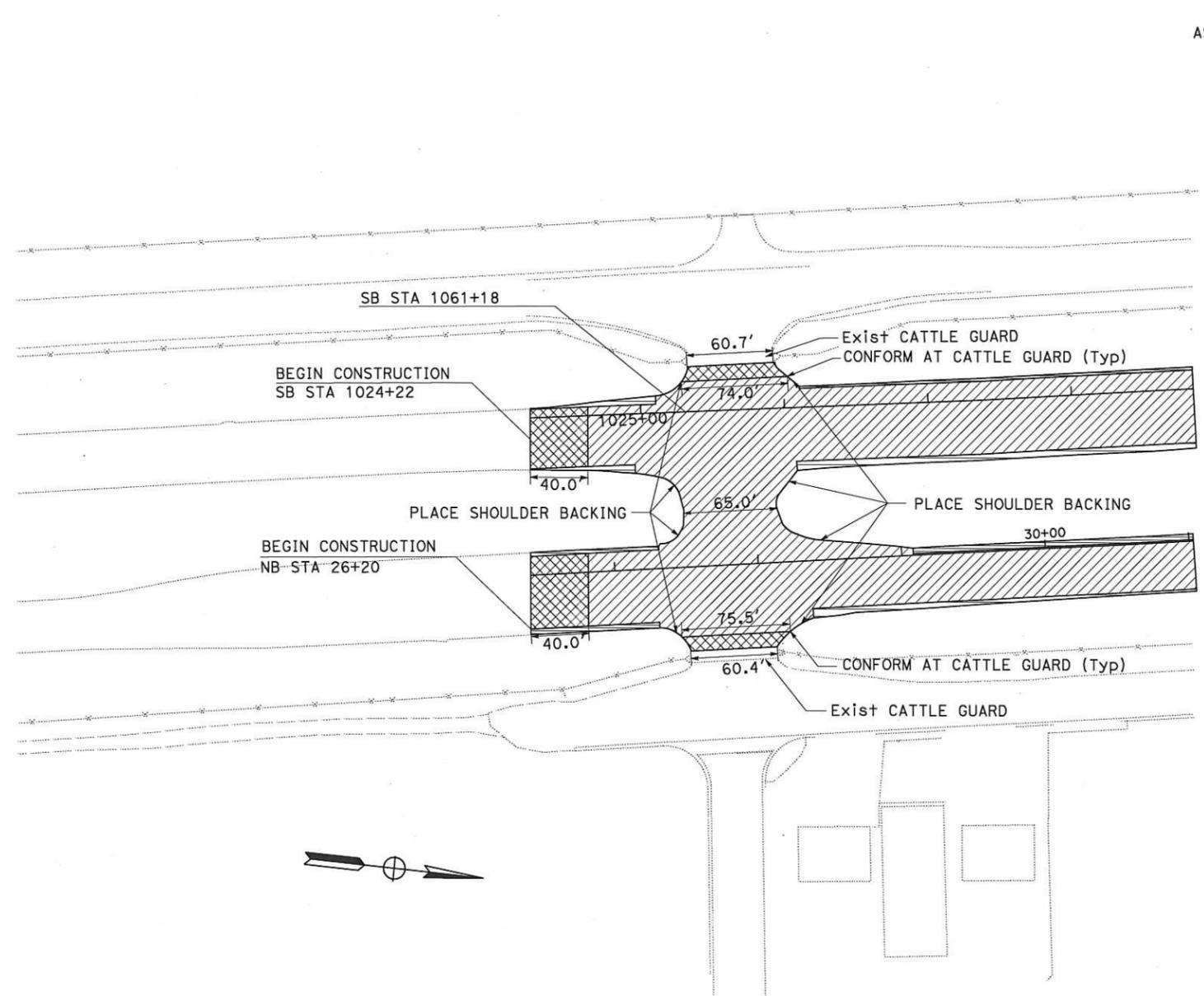
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

- LEGEND:**
- LIMITS OF RHMA-G
  - LIMITS OF COLD PLANE AC PAVEMENT AND RHMA-G
  - LIMITS OF ASPHALTIC EMULSION (FOG SEAL COAT)
  - DIRECTION OF TRAFFIC

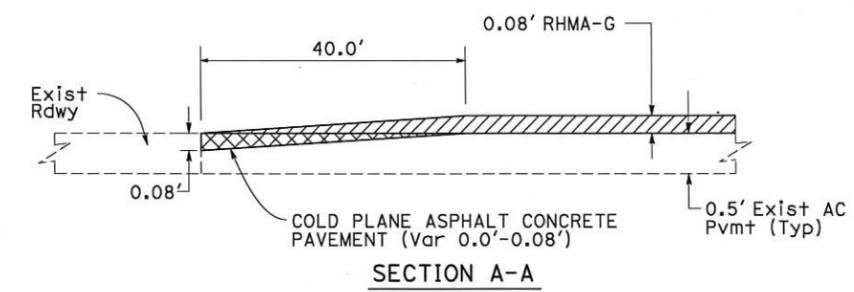
**ABBREVIATIONS:**

RHMA-G - RUBBERIZED HOT MIX ASPHALT-GAP GRADED

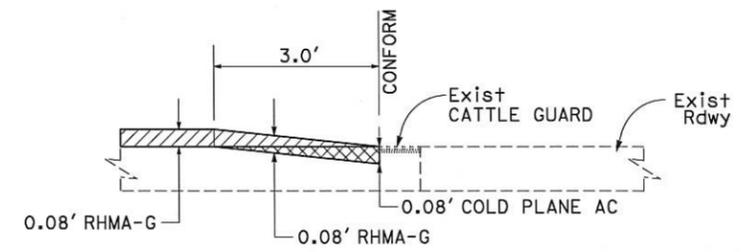
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR JOHN FOX  
 CALCULATED-DESIGNED BY CHECKED BY  
 MATTHEW GOJKE MALISSA REYNOLDS  
 REVISED BY DATE REVISED  
 4-14-15



**TYPICAL BEGIN/END CONSTRUCTION COLD PLANE AND HMA PAVING LIMITS**



**CONFORM AT BEGIN/END CONSTRUCTION (Typ)**



**CONFORM GRIND AT CATTLE GUARD (Typ)**

**PAVING AND COLD PLANE DETAIL AT SOUTH STERLING ROAD, MEDIAN X-OVER, AND SOUTH PEARSON ROAD PM R0.00**

**CONSTRUCTION DETAILS C-1**

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	R0.0/R8.6	4	18

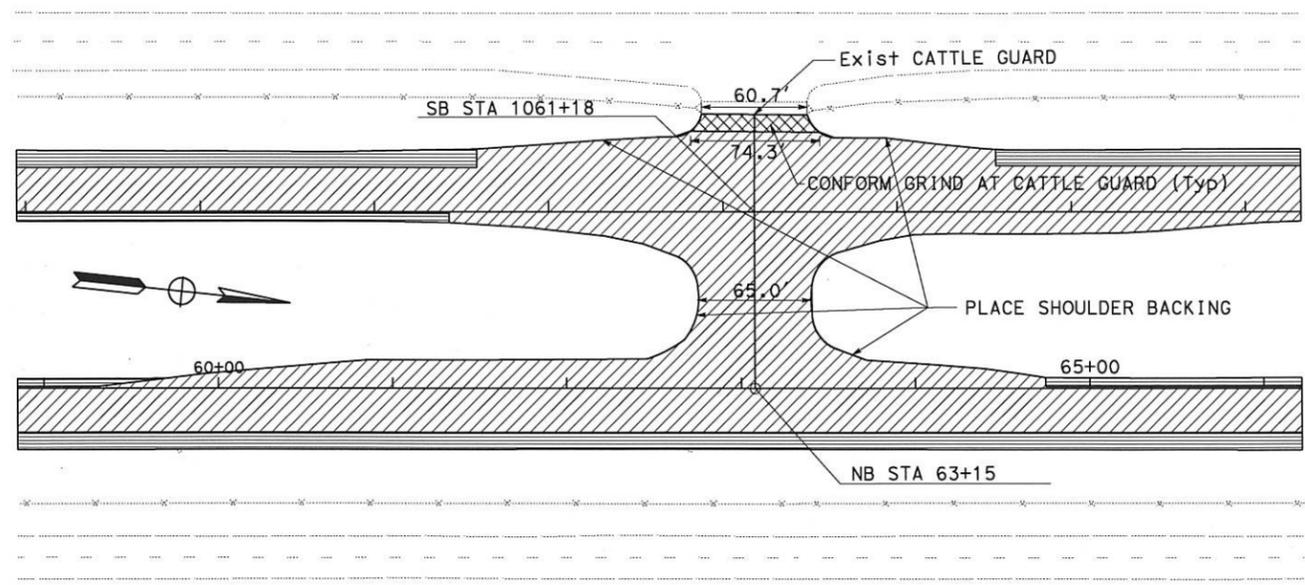
  

REGISTERED CIVIL ENGINEER	DATE
04-27-15	04-20-15
PLANS APPROVAL DATE	

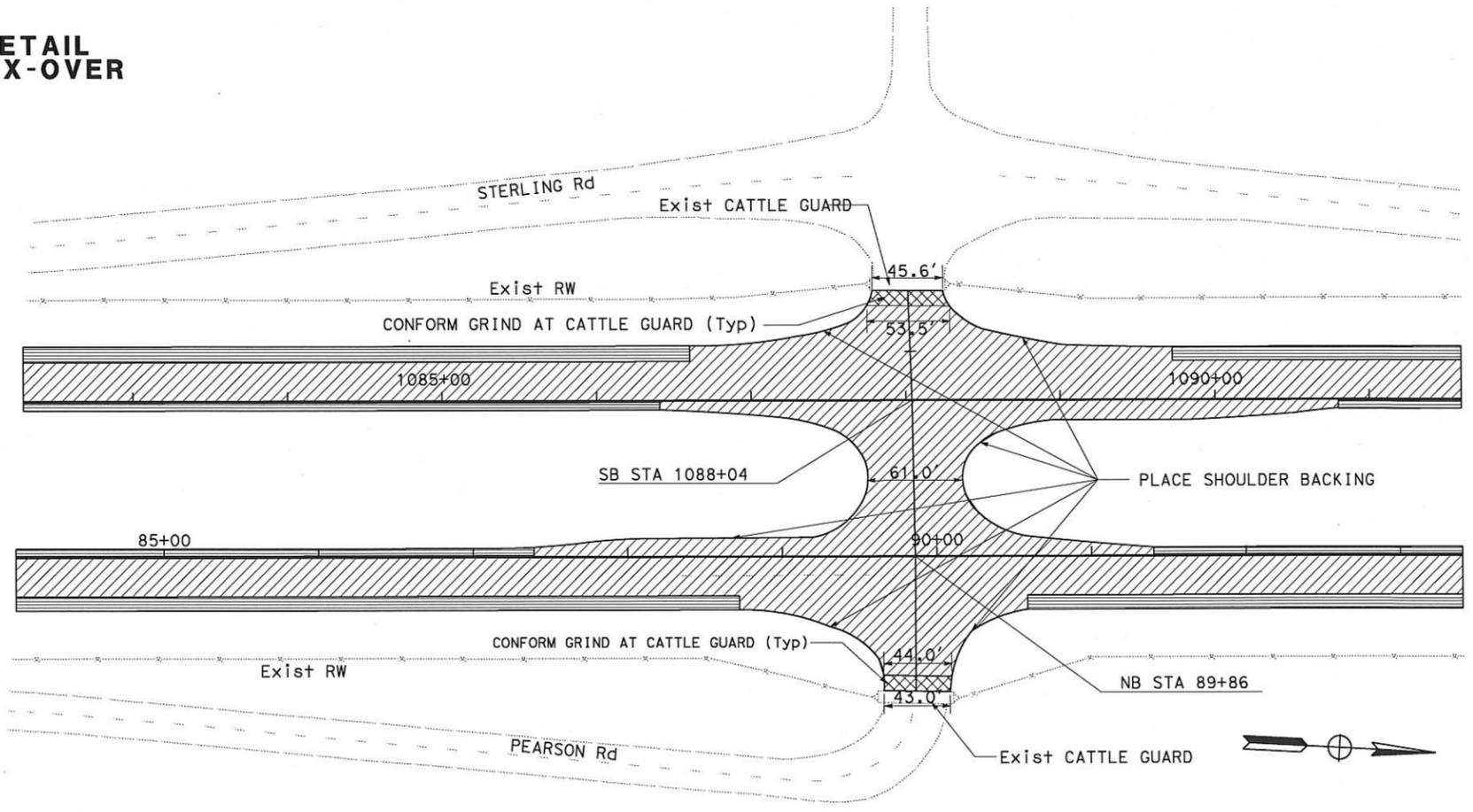
  

REGISTERED PROFESSIONAL ENGINEER
MATTHEW GOIKE
No. 63638
Exp. 09-30-16
CIVIL
STATE OF CALIFORNIA

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



**PAVING AND COLD PLANE DETAIL  
STERLING ROAD AND MEDIAN X-OVER  
(PM R0.68)**



**PAVING AND COLD PLANE DETAIL  
NORTH STERLING ROAD, NORTH PEARSON ROAD, AND MEDIAN X-OVER  
(PM R1.19)**

**CONSTRUCTION DETAILS**  
NO SCALE  
**C-2**

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR  
JOHN FOX

CALCULATED-DESIGNED BY  
CHECKED BY  
MATTHEW GOIKE  
MALISSA REYNOLDS

REVISED BY  
DATE REVISED  
4-14-15

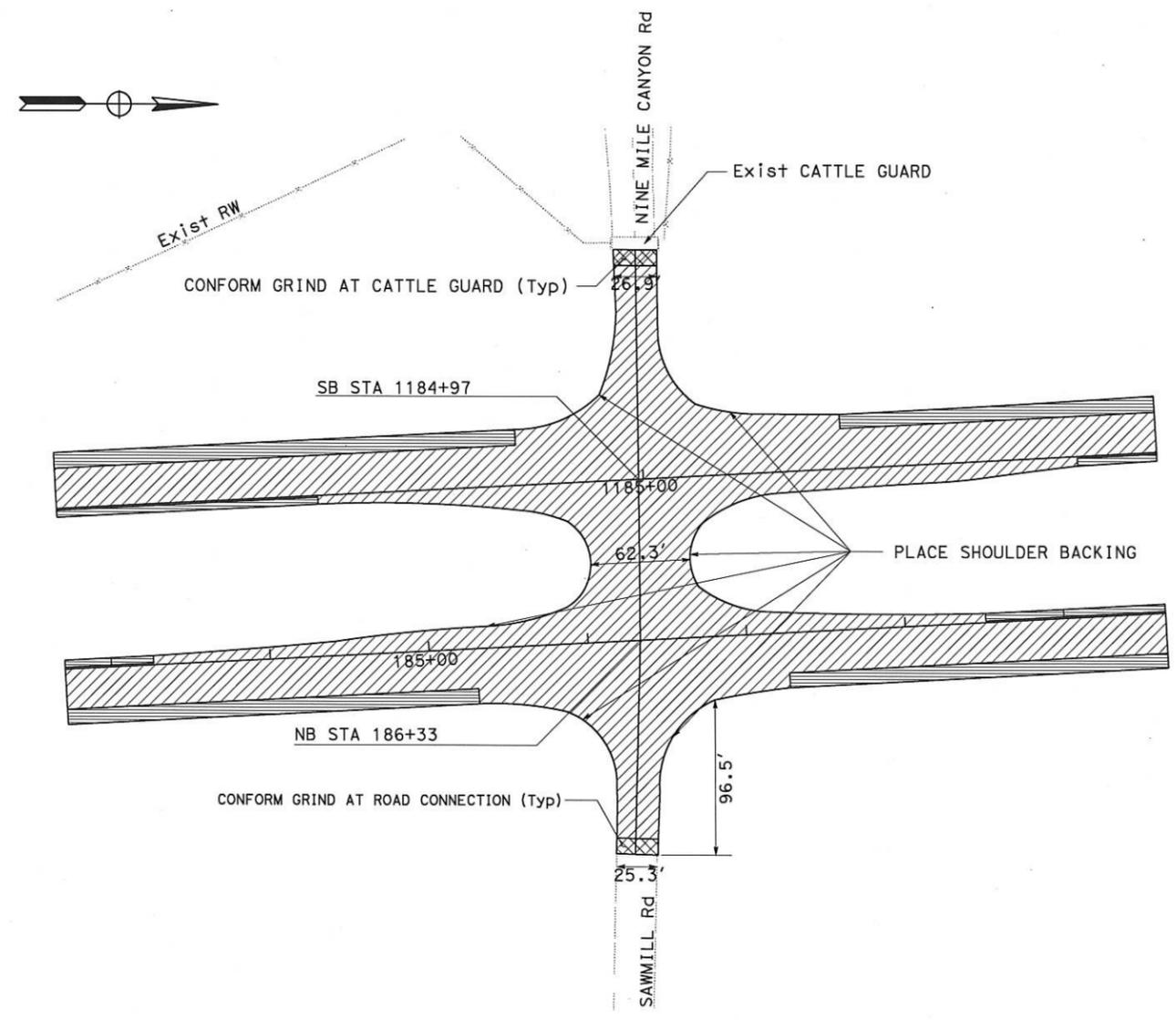
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	RO.0/R8.6	5	18

<i>Matthew Goike</i>	04-20-15
REGISTERED CIVIL ENGINEER	DATE
04-27-15	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
**MATTHEW GOIKE**  
 No. 63638  
 Exp. 09-30-16  
 CIVIL  
 STATE OF CALIFORNIA

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



**PAVING AND COLD PLANE DETAIL  
 NINE MILE CANYON ROAD, SAW MILL ROAD, AND MEDIAN X-OVER  
 (PM R3.02)**

**CONSTRUCTION DETAILS**  
 NO SCALE **C-3**

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR JOHN FOX  
 CALCULATED-DESIGNED BY CHECKED BY  
 MATTHEW GOIKE MALISSA REYNOLDS  
 REVISED BY DATE REVISED  
 4-14-15

BORDER LAST REVISED 7/2/2010

USERNAME => s122469  
 DGN FILE => 936140gc003.dgn



UNIT 2480

PROJECT NUMBER & PHASE

09140000531

LAST REVISION  
 DATE PLOTTED => 23-APR-2015  
 TIME PLOTTED => 13:02  
 04-14-15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	R0.0/R8.6	6	18

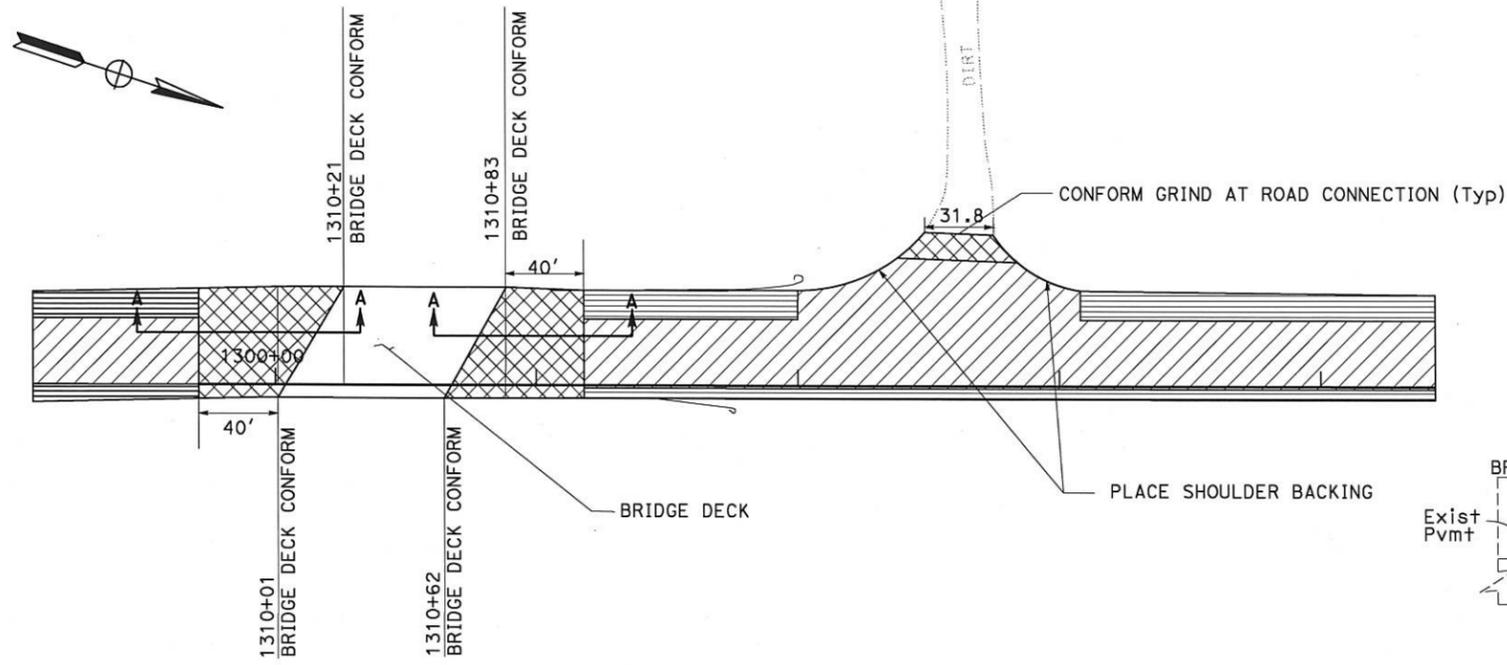
  

REGISTERED CIVIL ENGINEER	DATE
04-27-15	04-20-15
PLANS APPROVAL DATE	

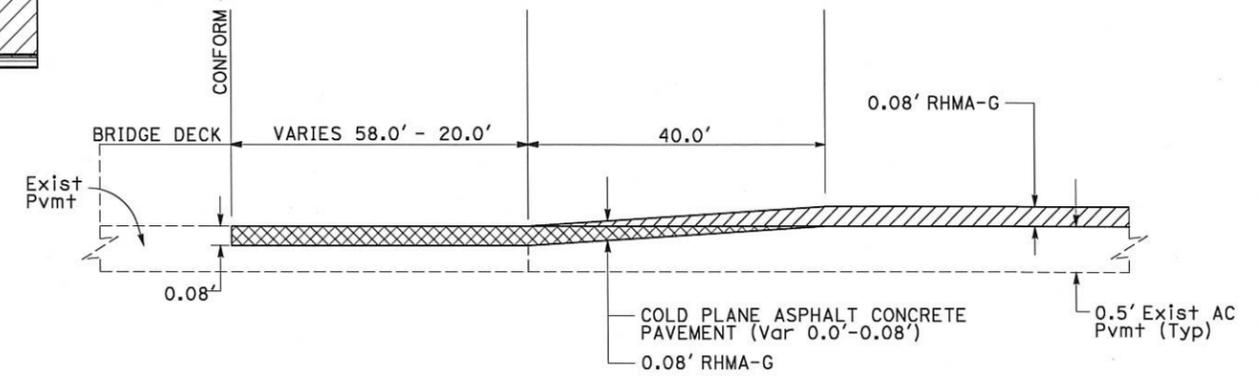
  

REGISTERED PROFESSIONAL ENGINEER
Matthew Goike
No. 63638
Exp. 09-30-16
CIVIL
STATE OF CALIFORNIA

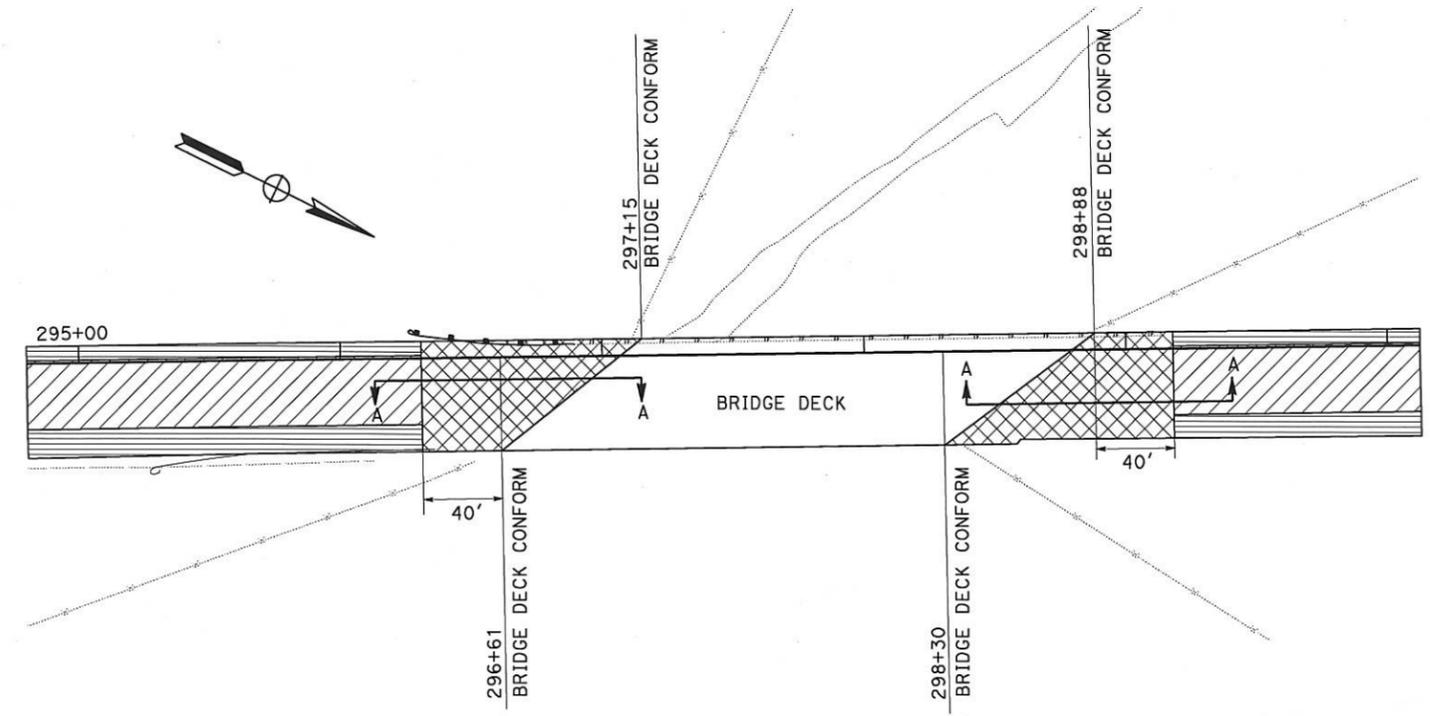
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



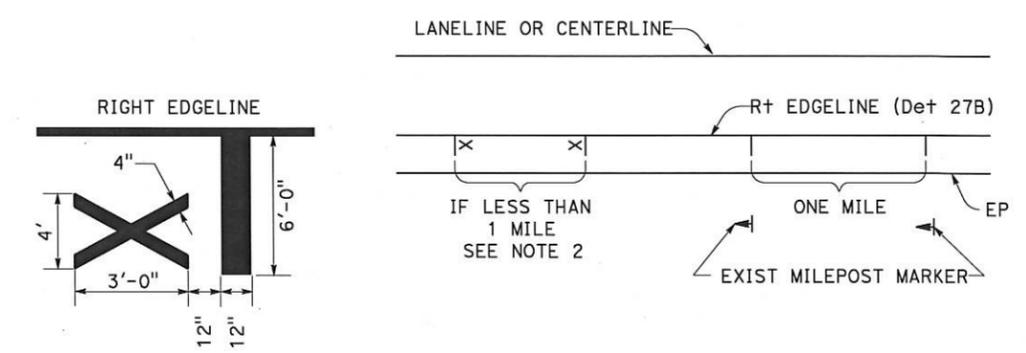
**PAVING AND COLD PLANE DETAIL AT FIVE MILE CANYON BRIDGE (No. 48-0051L-SB) PM R5.39 AND FIVE MILE CANYON ROAD**



**SECTION A-A PAVEMENT TRANSITION TAPER**



**PAVING AND COLD PLANE DETAIL AT FIVE MILE CANYON BRIDGE (No. 48-0046R-NB) (PM R5.12)**



**MARKING DETAILS**

- NOTES:**
1. AIRCRAFT MARKINGS SHALL BE PAINT PAVEMENT MARKING
  2. MARKINGS SHALL BE PLACED ON A ONE-MILE INCREMENT AT THE EVEN POSTMILE MARKER.

**AIRCRAFT MARKING DETAIL**

**CONSTRUCTION DETAILS**

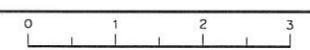
NO SCALE **C-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR JOHN FOX  
 CALCULATED - DESIGNED BY  
 CHECKED BY  
 MATTHEW GOIKE  
 MALISSA REYNOLDS  
 REVISED BY  
 DATE REVISED 4-14-15

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

USERNAME => s122469  
 DGN FILE => 936140g004.dgn

RELATIVE BORDER SCALE IS IN INCHES



UNIT 2480

PROJECT NUMBER & PHASE

09140000531

DATE PLOTTED => 23-APR-2015  
 TIME PLOTTED => 13:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	R0.0/R8.6	7	18

REGISTERED CIVIL ENGINEER DATE 04-20-15  
 04-27-15 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  
**MATTHEW GOIKE**  
 No. 63638  
 Exp. 09-30-16  
 CIVIL  
 STATE OF CALIFORNIA

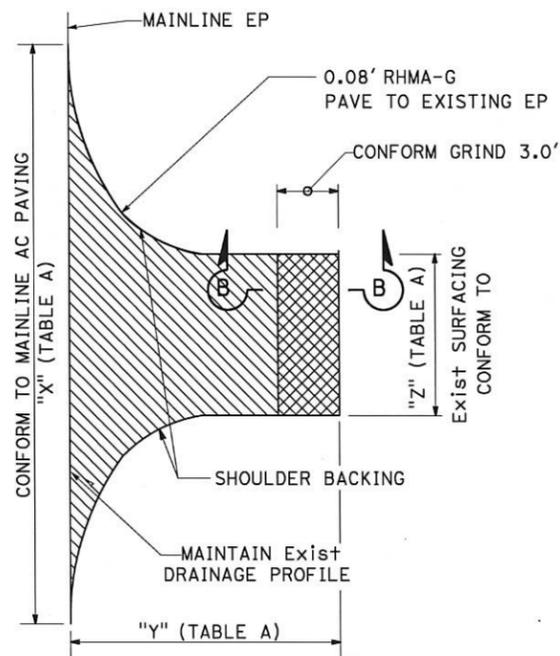
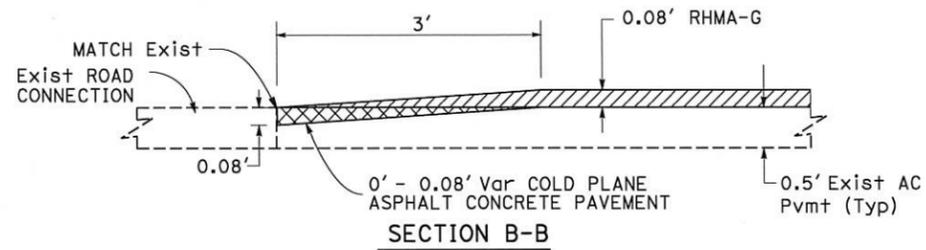


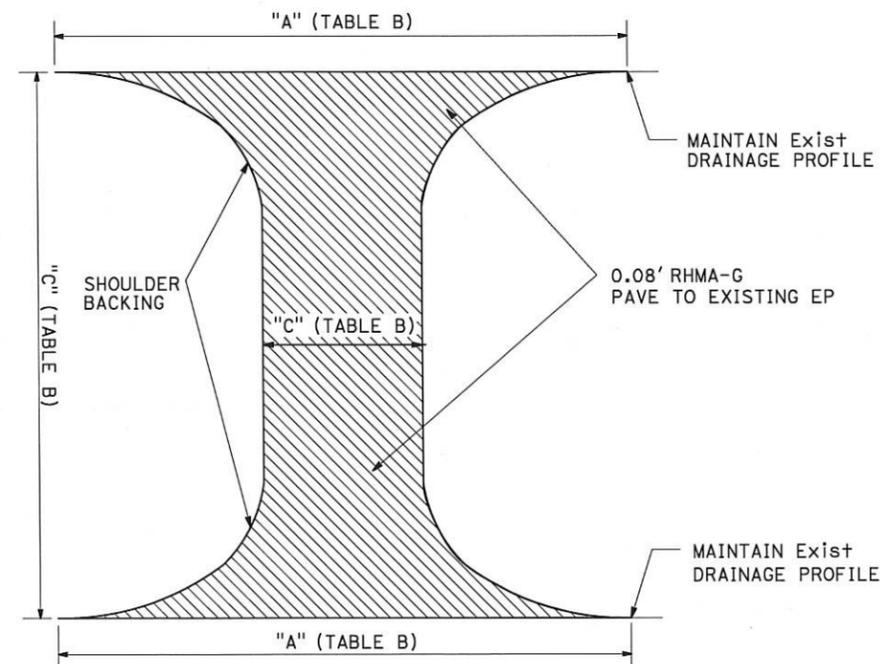
TABLE B

RHMA-G MEDIAN CROSSOVER LIMITS						
STATION	PM	L+ R+	"A"	"B"	"C"	DESCRIPTION
26+40	R0.00	X	113'	65.0'	98.7'	MEDIAN CROSSOVER, SOUTH PEARSON ROAD, NB/SOUTH STERLING ROAD, SB
63+15	R0.68	X	120'	71'	177'	MEDIAN CROSSOVER, STERLING ROAD, SB
89+86	R1.19	X	140'	79'	177'	MEDIAN CROSSOVER, NORTH PEARSON ROAD, NB/NORTH STERLING ROAD, SB
186+33	R3.02	X	162'	74'	203'	MEDIAN CROSSOVER, SAW MILL ROAD, NB/NINE MILE CANYON ROAD, SB

TYPICAL ROAD CONNECTION CONFORM GRIND AND RHMA-G PAVING LIMITS

TABLE A

RHMA-G AND COLD PLANE AC Pvm ROAD CONNECTION LIMITS					
STA	"X"	"Y"	"Z"	THICKNESS	NOTES
26+20	40'	56'	-	0.08'	BEGIN CONSTRUCTION, NB
26+40	108'	75.5'	28.0'	0.08'	SOUTH PEARSON ROAD, NB, Rt.
89+86	186'	44.0'	53.4'	0.08'	NORTH PEARSON ROAD, NB, Rt.
186+33	196'	99.3'	25.3'	0.08'	SAW MILL ROAD, NB, Rt.
479+25	40'	26.3'	-	0.08'	END CONSTRUCTION, NB
1024+22	40'	48.5'	-	0.08'	BEGIN CONSTRUCTION, SB
1024+42	111'	74.0'	28.8'	0.08'	SOUTH STERLING RD, SB, Lt.
1061+18	298'	74.3'	28.3'	0.08'	STERLING ROAD, SB, Lt.
1088+04	199'	53.5'	38.8'	0.08'	NORTH STERLING ROAD, SB, Lt.
1184+97	205'	110.6'	38.9'	0.08'	NINE MILE CANYON ROAD, SB, Lt.
1310+50	91'	25.4'	31.8'	0.08'	DRIVEWAY, SB, Lt.
1479+45	40'	26.0'	-	0.08'	END CONSTRUCTION, SB



TYPICAL MEDIAN CROSSOVER RHMA-G PAVING LIMITS

CONSTRUCTION DETAILS

NO SCALE

C-5

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 MATTHEW GOIKE  
 MALISSA REYNOLDS  
 JOHN FOX  
 MAINTENANCE ENGINEERING

REVISED BY  
 DATE REVISED  
 4-14-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	RO.0/R8.6	8	18

REGISTERED CIVIL ENGINEER DATE 04-20-15  
 REGISTERED CIVIL ENGINEER DATE 04-27-15  
 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.

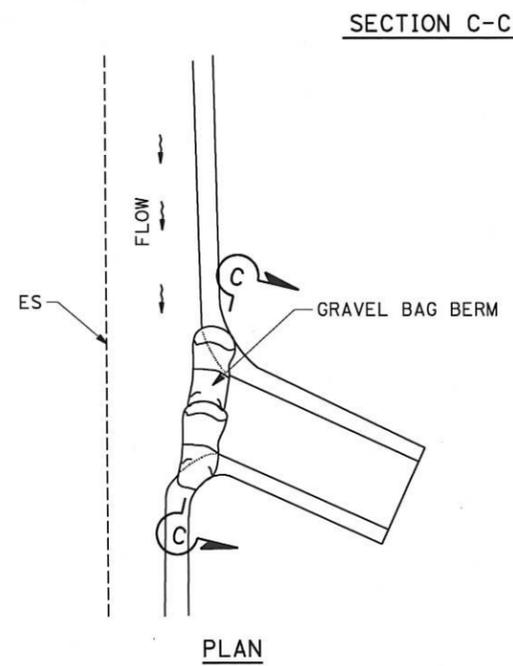
MATTHEW GOIKE  
 No. 63638  
 Exp. 09-30-16  
 CIVIL  
 STATE OF CALIFORNIA

NOTE:  
 1. EXACT LOCATION AND POSITION OF TEMPORARY DRAINAGE PROTECTION TO BE DETERMINED BY THE ENGINEER.

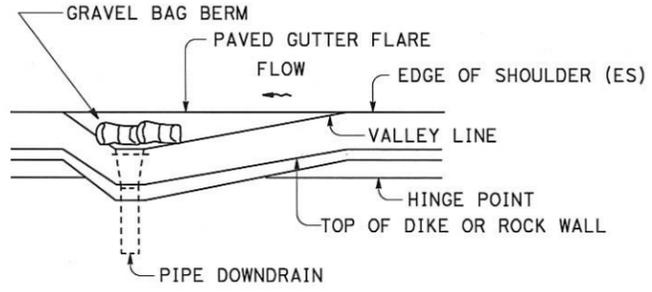
TEMPORARY GRAVEL BAG BERM				
STATION	L+	R+	LF	DESCRIPTION
232+47	X		4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
303+43		X	4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
331+71	X		4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
331+88		X	4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
334+90		X	4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
335+88	X		4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
338+34	X		4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
338+41		X	4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
355+30		X	4	Temp DRAINAGE PROTECTION AC DOWN DRAIN
362+95	X		4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
363+18		X	4	Temp DRAINAGE PROTECTION AC DOWN DRAIN
364+36		X	4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
372+10	X		4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
372+56		X	4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
376+56		X	4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
395+92	X		4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
397+59		X	4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
437+16	X		4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
440+51		X	4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
1271+76	X		4	Temp DRAINAGE PROTECTION AC OVERSIDE DRAIN
1289+57		X	4	Temp DRAINAGE PROTECTION AC DOWN DRAIN
1295+48		X	4	Temp DRAINAGE PROTECTION AC DOWN DRAIN
1298+86		X	4	Temp DRAINAGE PROTECTION AC DOWN DRAIN
1302+07		X	4	Temp DRAINAGE PROTECTION AC DOWN DRAIN
1412+97	X		4	Temp DRAINAGE PROTECTION AC DOWN DRAIN
1415+99	X		4	Temp DRAINAGE PROTECTION AC DOWN DRAIN
1421+50	X		4	Temp DRAINAGE PROTECTION AC DOWN DRAIN
TOTAL			108	

TEMPORARY DRAINAGE INLET PROTECTION				
STATION	L+	R+	EA	DESCRIPTION
479+75	X		1	DRAINAGE INLET GRATE
1284+98	X		1	DRAINAGE INLET GRATE
1295+22	X		1	DRAINAGE INLET GRATE
TOTAL			3	

CROSS SECTION OF SLOPE DITCH MAY BE SEMICIRCULAR, VEE OR TRAPEZOIDAL



TEMPORARY GRAVEL BAG BERM AT ASPHALT CONCRETE OVERSIDE DRAIN (TYPICAL)



TEMPORARY GRAVEL BAG BERM AT PIPE DOWNDRAIN (TYPICAL)

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

TEMPORARY WATER POLLUTION CONTROL QUANTITIES  
 NO SCALE  
 WPCQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 MATTHEW GOIKE  
 MALISSA REYNOLDS  
 JOHN FOX  
 MAINTENANCE ENGINEERING

LAST REVISION DATE PLOTTED => 23-APR-2015 TIME PLOTTED => 13:05

NOTES:

- FOR SIGN INSTALLATION DETAILS AND DIMENSIONS NOT SHOWN SEE STANDARD PLANS.
- SEE TABLE FOR PLACEMENT TYPE, EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	RO.0/R8.6	9	18

REGISTERED CIVIL ENGINEER DATE 04-20-15

04-27-15  
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  
MATTHEW GOIKE  
No. 63638  
Exp. 09-30-14  
CIVIL  
STATE OF CALIFORNIA

**PORTABLE CHANGEABLE MESSAGE SIGNS**

MESSAGE FOR DIVIDED HIGHWAY		
LANE CLOSED AHEAD	REDUCE SPEED	USE CAUTION

- PORTABLE CHANGEABLE MESSAGE SIGN LOCATIONS TO BE CONFIRMED BY THE ENGINEER BEFORE THE ACTUAL CLOSURE.
- ALTERNATE MESSAGES MUST BE APPROVED BY THE ENGINEER.
- MESSAGE MAY BE ALTERED BY THE ENGINEER.
- PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DISPLAYED DURING SWEEPING OPERATIONS AND WHEN CONSTRUCTION OPERATIONS ARE ACTIVELY IN PROGRESS.

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

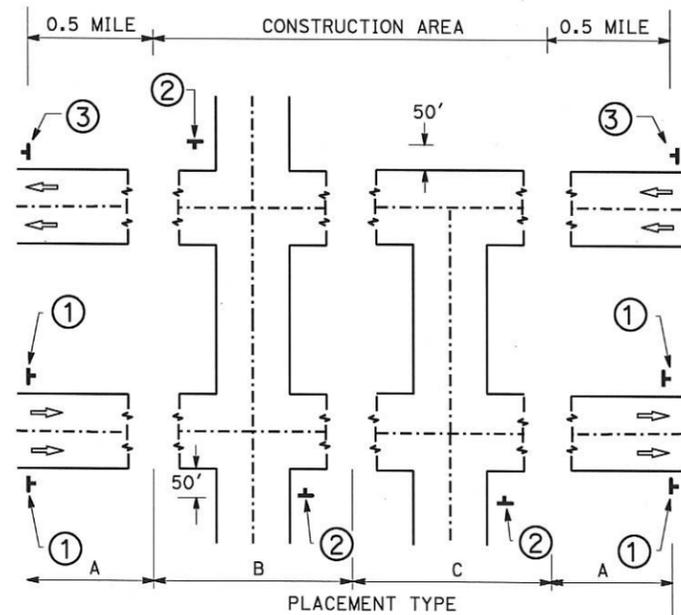
STATION	PM	PLACEMENT	REMARKS
0+00 (NB)/998+02 (SB)	KER395 R36.32	A	BEGIN WORK, NB/END WORK, SB
26+40 (NB)/1024+42 (SB)	R0.00	B	SOUTH PEARSON ROAD, NB, R+./SOUTH STERLING ROAD, SB, LT.
1060+32 (SB)	R0.68	C	STERLING ROAD, SB, Lt.
89+86 (NB)/1088+04 (SB)	R1.19	B	NORTH PEARSON ROAD, NB, R+/NORTH STERLING ROAD, SB, Lt.
186+33 (NB)/1184+97 (SB)	R3.02	B	SAW MILL ROAD, NB, R+/NINE MILE CANYON ROAD, SB, Lt.
505+85 (NB)/1505+85 (SB)	9.10	A	END WORK (NB)/BEGIN WORK (SB)

**MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION**

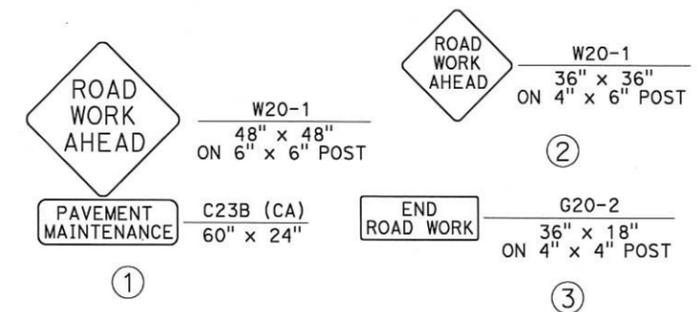
STATION	PM	REMARKS
194+78	R3.18	TRAFFIC COUNT Sta, DETECTOR LOOPS
1193+42	R3.18	TRAFFIC COUNT Sta, DETECTOR LOOPS

**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	1 - 6" x 6"
	C23B (CA) (SPECIAL)	48" x 30"	PAVEMENT MAINTENANCE	4	
②	W20-1	36" x 36"	ROAD WORK AHEAD	7	1 - 4" x 6"
③	G20-2	36" x 18"	END ROAD WORK	2	1 - 4" x 4"



**TYPICAL SIGN PLACEMENT FOR DIVIDED HIGHWAY WITH CONSTRUCTION IN BOTH DIRECTIONS OF TRAVEL**



**TYPICAL SIGN LAYOUT**

**CONSTRUCTION AREA SIGNS**  
NO SCALE  
**CS-1**

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR JOHN FOX  
 CALCULATED-DESIGNED BY CHECKED BY  
 MATTHEW GOIKE MALISSA REYNOLDS  
 REVISED BY DATE REVISED  
 MR 04-14-15

**NOTES:**

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	R0.0/R8.6	10	18

REGISTERED CIVIL ENGINEER DATE 04-20-15  
 04/27/15  
 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.

ROADWAY QUANTITIES				
LOCATION	RUBBERIZED HOT-MIX ASPHALT (GAP GRADED)	COLD PLANE AC PAVEMENT	TACK COAT	ASPHALTIC EMULSION (FOG SEAL COAT)
PM	TON	SQYD	TON	TON
R0.0/R8.6	20,476	2079	156	42
<b>TOTAL</b>	<b>20,476</b>	<b>2079</b>	<b>156</b>	<b>42</b>

SHOULDER BACKING				
STATION	NB	SB	QUANTITY	REMARKS
			TON	
26+40	X		1.0	SOUTH PEARSON ROAD, Rt.
26+40	X		3.9	MEDIAN CROSSOVER, Lt.
89+86	X		3.1	NORTH PEARSON ROAD, Rt.
89+86	X		12.4	MEDIAN CROSSOVER, Lt.
186+33	X		4.9	SAWMILL ROAD.,Rt.
186+33	X		14.9	MEDIAN CROSSOVER, Lt.
1024+42		X	0.9	SOUTH STERLING ROAD, Lt.
1061+18		X	3.5	STERLING ROAD, Lt.
1061+18		X	14.7	MEDIAN CROSSOVER, Rt.
1088+04		X	4.6	NORTH STERLING ROAD, Lt.
1184+97		X	4.3	NINE MILE CANYON ROAD, Lt.
1295+32		X	2.9	FIVE MILE CANYON ROAD, Lt.
<b>TOTAL</b>			<b>71.1</b>	

**SUMMARY OF QUANTITIES**

NO SCALE **Q-1**

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

LAST REVISION DATE PLOTTED => 23-APR-2015 04-14-15 TIME PLOTTED => 13:07

**NOTES:**

1. REMOVE THERMOPLASTIC PAVEMENT MARKINGS INCLUDES THE QUANTITY FOR PAINT TRAFFIC (2-COAT) DETAIL 38A.

**THERMOPLASTIC PAVEMENT MARKING (2-COAT)**

STATION	TYPE III ARROW (LEFT)		TYPE III ARROW (RIGHT)		TYPE V ARROW		LIMIT LINE (12" WIDE)		"STOP"		AIRCRAFT MARKING		DESCRIPTION
	EA(N)	SQFT	EA(N)	SQFT	EA(N)	SQFT	LF(N)	SQFT	EA(N)	SQFT	EA(N)	SQFT	
SB 26+40							43	43	1	22			SOUTH PEARSON ROAD, Rt.
SB 26+20	1	42	1	42	2	66					2	10	AIRCRAFT MARKER PM 0.0
SB 61+20	1	42											
SB 61+45					2	66							
SB 62+60	1	42			2	66							
SB 63+15							33	33	1	22			MEDIAN CROSSOVER AT STERLING ROAD, Lt.
SB 79+00											1	6	AIRCRAFT MARKER PM 0.0
SB 88+22					2	66							
SB 88+90	1	42											
SB 89+40	1	42			2	66							
SB 89+86							40	40	1	22			NORTH PEARSON ROAD, Rt.
SB 89+86							29	29	1	22			MEDIAN CROSSOVER, Lt.
SB 131+80											2	10	AIRCRAFT MARKER PM 1.0
SB 184+60											1	6	AIRCRAFT MARKER PM 2.0
SB 184+94					2	66							
SB 185+60	1	42											
SB 186+15					2	66							
SB 186+33							35	35	1	22			SAWMILL ROAD, Rt.
SB 186+33							29	29	1	22			MEDIAN CROSSOVER, Lt.
SB 237+40											2	10	AIRCRAFT MARKER PM 3.0
SB 290+20											1	6	AIRCRAFT MARKER PM 4.0
SB 343+00											2	10	AIRCRAFT MARKER PM 5.0
SB 395+80											1	6	AIRCRAFT MARKER PM 6.0
SB 448+60											2	10	AIRCRAFT MARKER PM 7.0
NB 1024+22											2	10	AIRCRAFT MARKER PM 8.0
NB 1024+42							36	36	1	22			SOUTH STERLING ROAD, Lt.
NB 1025+94					2	66							
NB 1026+17	1	42	1	42									
NB 1027+20					2	66							
NB 1028+60	1	42	1	42									
NB 1061+18							63	63	2	44			STERLING ROAD, Lt., MEDIAN CROSSOVER, Rt.
NB 1062+00	1	42			2	66							
NB 1063+25	1	42			2	66							
NB 1077+02											1	6	AIRCRAFT MARKER PM 1.0
NB 1088+06							74	74	2	44			NORTH STERLING ROAD, Lt., MEDIAN CROSSOVER, Rt.
NB 1088+50	1	42			2	66							
NB 1089+75	1	42			2	66							
NB 1129+82											2	10	AIRCRAFT MARKER PM 2.0
NB 1182+62											1	6	AIRCRAFT MARKER PM 3.0
NB 1184+97	1	42			2	66	66	66	2	44			NINE MILE CANYON ROAD, Lt., MEDIAN CROSSOVER, Rt.
NB 1185+40	1	42			2	66							
NB 1186+20					2	66							
NB 1235+42											2	10	AIRCRAFT MARKER PM 4.0
NB 1288+22											1	6	AIRCRAFT MARKER PM 5.0
NB 1313+00					2	66							
NB 1314+19					2	66							
NB 1341+02											2	10	AIRCRAFT MARKER PM 6.0
NB 1353+24					2	66							
NB 1354+36					2	66							
NB 1393+82											1	6	AIRCRAFT MARKER PM 7.0
NB 1409+45					2	66							
NB 1410+53					2	66							
NB 1446+62											2	10	AIRCRAFT MARKER PM 8.0
<b>SUBTOTAL</b>	<b>588</b>	<b>126</b>	<b>1,452</b>	<b>448</b>	<b>286</b>	<b>74</b>							
<b>TOTAL</b>				<b>2,974</b>									

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

**REMOVE  
THERMOPLASTIC  
PAVEMENT MARKING**

SQFT

3,774

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	RO.0/R8.6	11	18

REGISTERED CIVIL ENGINEER  
 DATE 04-20-15  
 04-27-15  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 No. 63638  
 Exp. 09-30-16  
 CIVIL  
 STATE OF CALIFORNIA

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

**PAINT TRAFFIC STRIPE (2-COAT)**

STATION TO STATION (LOCATION)	DETAIL NUMBER				
	11	21	24	27B	38A
	LF	LF	LF	LF	LF
NB 26+20 - 26+73	53		53	53	106
NB 26+73 - 27+60					
NB 27+60 - 60+97	3,337		3,337	3,337	
NB 60+97 - 62+75	178		178	178	178
NB 62+75 - 63+70	95			95	
NB 63+70 - 88+68	2,498		2,498	2,498	
NB 88+68 - 89+62	94		94	94	94
NB 89+62 - 90+42					
NB 90+42 - 185+38	9,496		9,496	9,496	
NB 185+38 - 186+28	90		90	90	90
NB 186+28 - 187+00					
NB 187+00 - 477+03	29,003		29,003	29,003	
NB 477+03 - 479+45	242	242		242	
SB 1024+22 - 1025+10	88		88	88	
SB 1025+10 - 1025+94					
SB 1025+94 - 1028+90	296		296	296	296
SB 1028+90 - 1061+15	3,225		3,225	3,225	
SB 1061+15 - 1062+00					
SB 1062+00 - 1063+70	170		170	170	170
SB 1063+70 - 1087+69	2,399		2,399	2,399	
SB 1087+69 - 1088+50					
SB 1088+50 - 1189+87	137		137	137	137
SB 1189+87 - 1184+38	9,451		9,451	9,451	
SB 1184+38 - 1185+40					
SB 1185+40 - 1186+68	128		128	128	128
SB 1186+68 - 1477+03	29,035		29,035	29,035	
SB 1186+68 - 1477+03	242	242		242	
NB 26+40 PEARSON Rd Rt			20		
NB 26+40 CROSSOVER			46		
SB 1024+42 STERLING Rd Lt			46		
NB 63+15 CROSSOVER			66		
SB 1061+18 STERLING Rd Lt			20		
NB 89+86 PEARSON Rd Rt			56		
NB 89+86 CROSSOVER			72		
SB 1088+04 STERLING Rd Lt			39		
NB 186+33 SAWMILL Rd Rt			289		
NB 186+33 CROSSOVER			69		
SB 1184+97 NINE MILE CANYON Rd Lt			105		
<b>SUBTOTAL</b>	<b>90,257</b>	<b>1,312</b>	<b>89,678</b>	<b>90,257</b>	<b>1,199</b>
<b>TOTAL</b>			<b>272,703</b>		

**SUMMARY OF QUANTITIES**

NO SCALE **Q-2**

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
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	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	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
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**

**Q**

**R**

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

**S**

**T**

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**

**U**

**V**

**W**

**X**

**Y**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	RO.0/R8.6	12	18

*Grace M. Tsushima*  
REGISTERED CIVIL ENGINEER

July 19, 2013  
PLANS APPROVAL DATE

No. C49814  
Exp. 9-30-14  
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.

TO ACCOMPANY PLANS DATED 04-27-15

**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 <sup>3</sup> , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
∅	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

\* For use on a sign panel only

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS  
(SHEET 2 OF 2)**

NO SCALE

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

**REVISED STANDARD PLAN RSP A10B**

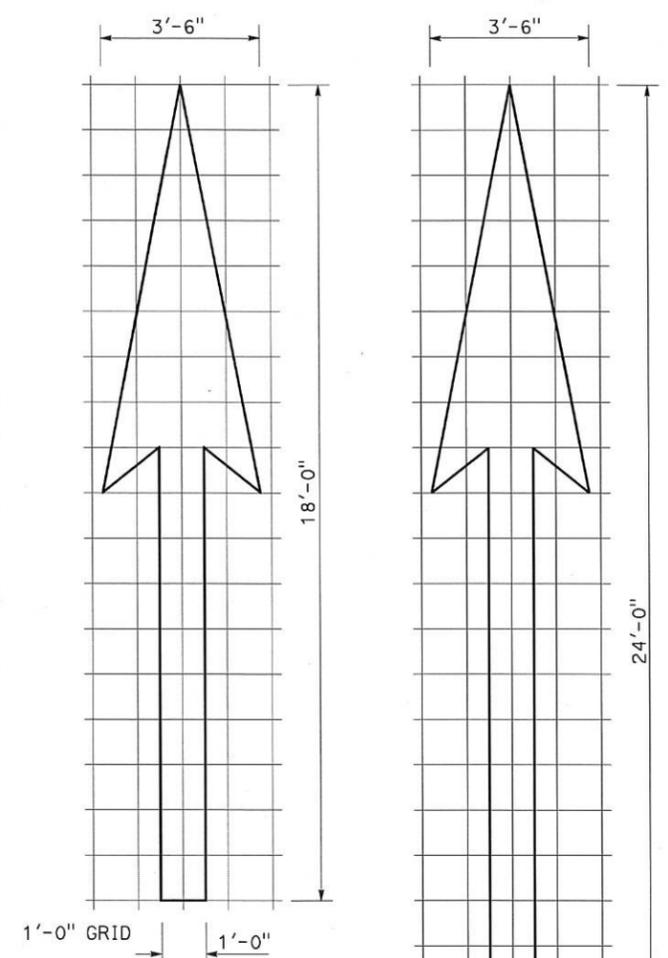
2010 REVISED STANDARD PLAN RSP A10B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	RO.0/R8.6	13	18

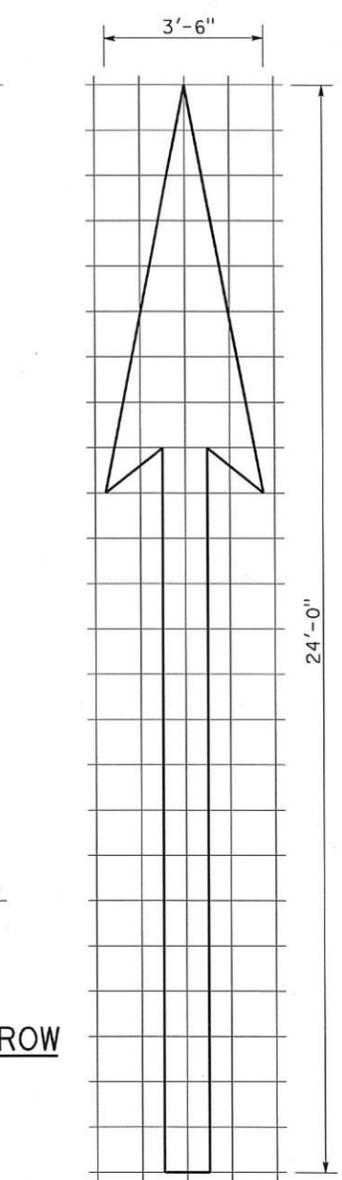
*Roberta L. McLaughlin*  
 REGISTERED CIVIL ENGINEER  
 April 20, 2012  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

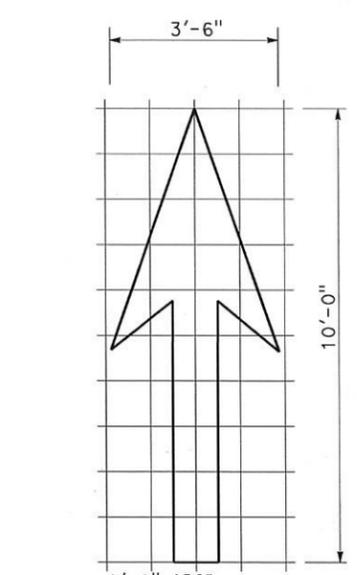
TO ACCOMPANY PLANS DATED 04-27-15



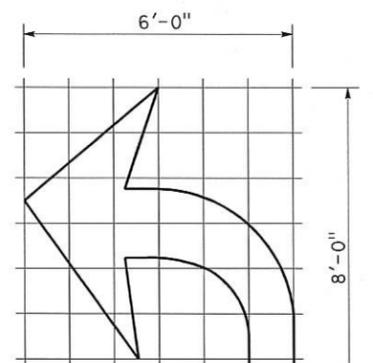
A=25 ft<sup>2</sup>  
**TYPE I 18'-0" ARROW**



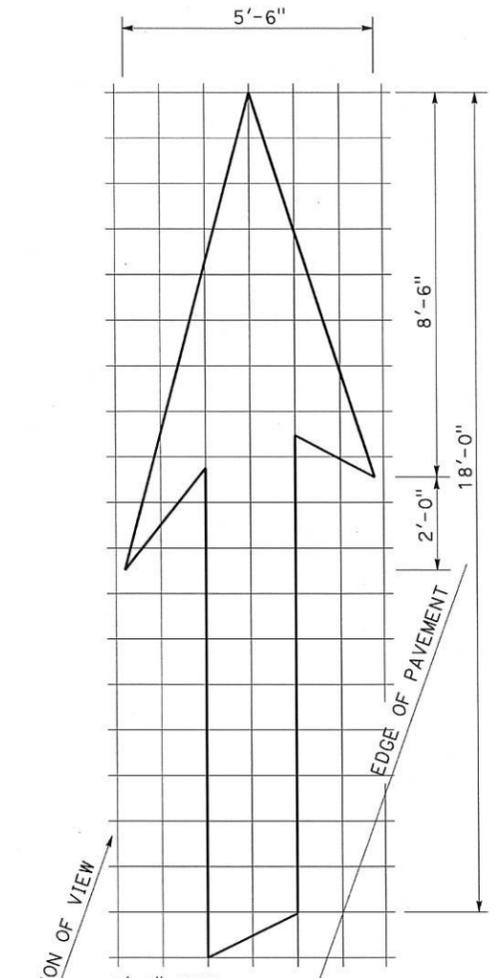
A=31 ft<sup>2</sup>  
**TYPE I 24'-0" ARROW**



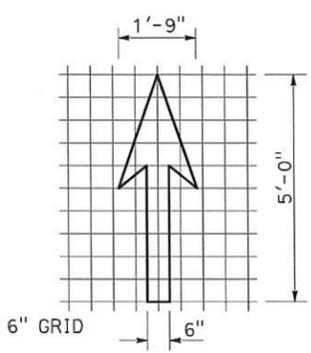
A=14 ft<sup>2</sup>  
**TYPE I 10'-0" ARROW**



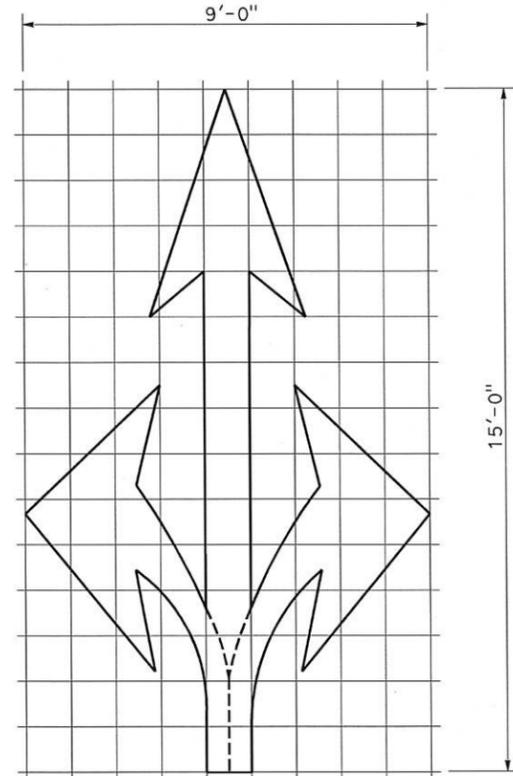
A=15 ft<sup>2</sup>  
**TYPE IV (L) ARROW**  
(For Type IV (R) arrow, use mirror image)



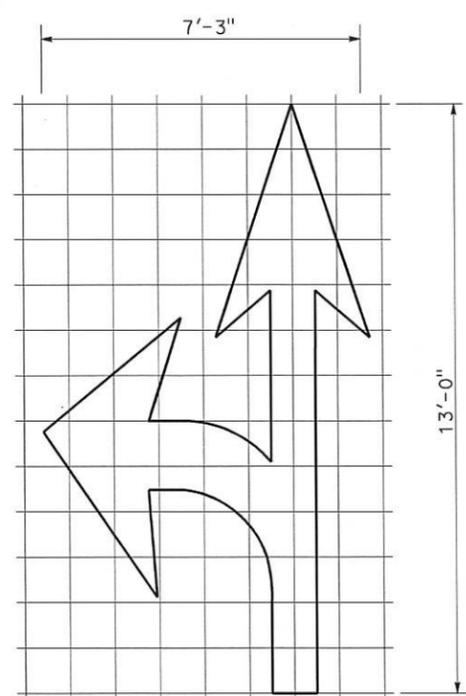
A=42 ft<sup>2</sup>  
**TYPE VI ARROW**  
Right lane drop arrow  
(For left lane, use mirror image)



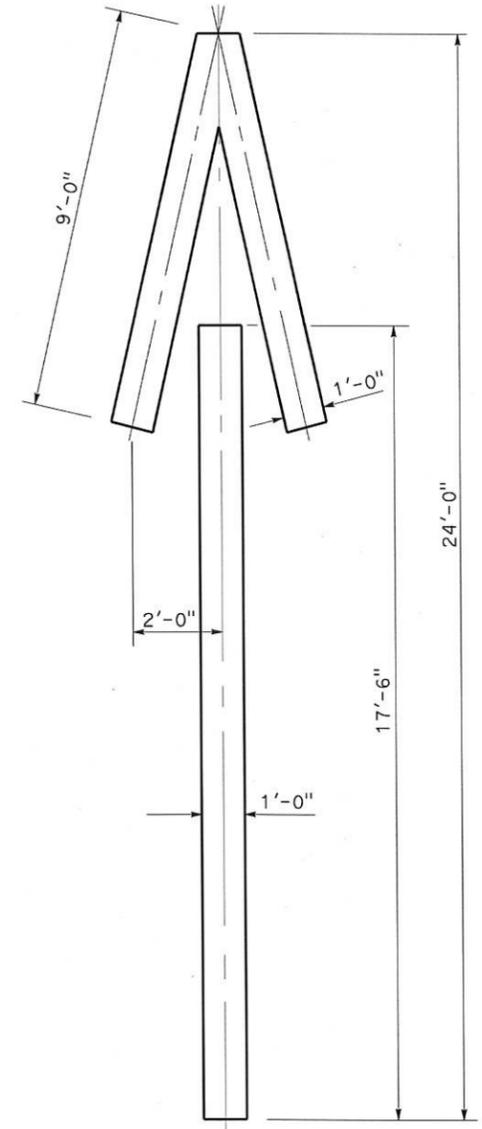
A=3.5 ft<sup>2</sup>  
**BIKE LANE ARROW**



A=36 ft<sup>2</sup>  
**TYPE VIII ARROW**



A=27 ft<sup>2</sup>  
**TYPE VII (L) ARROW**  
(For Type VII (R) arrow, use mirror image)



A=33 ft<sup>2</sup>  
**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

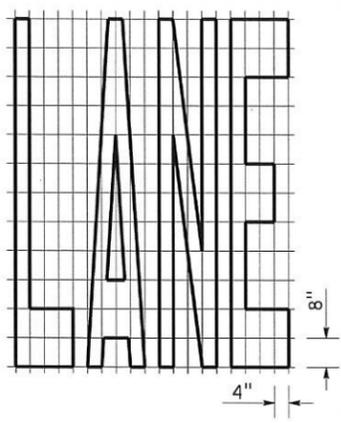
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A24A

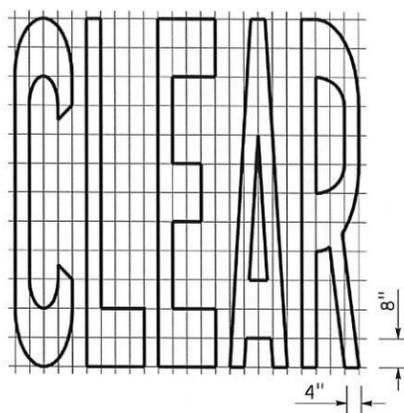
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	RO.0/R8.6	14	18

*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.

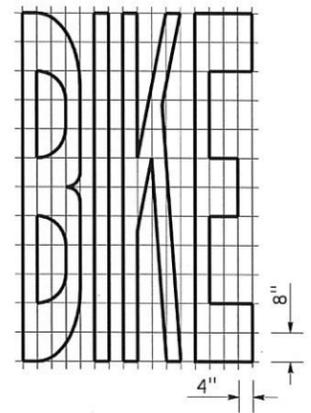
TO ACCOMPANY PLANS DATED 04-27-15



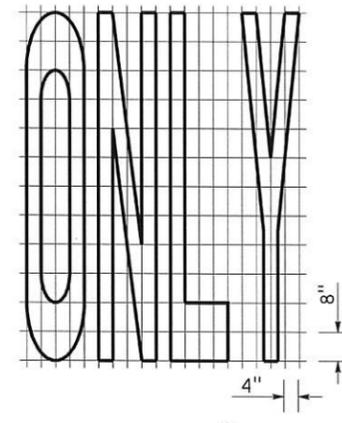
A=24 ft<sup>2</sup>



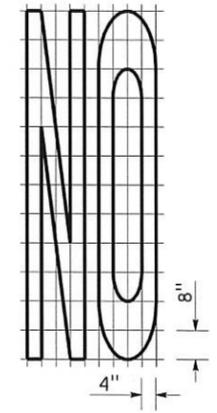
A=27 ft<sup>2</sup>



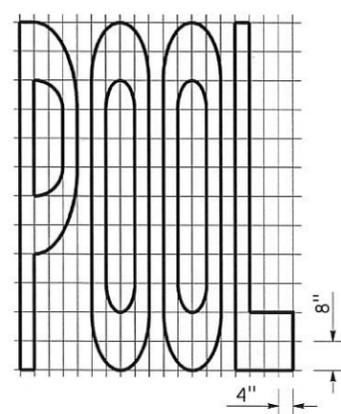
A=21 ft<sup>2</sup>



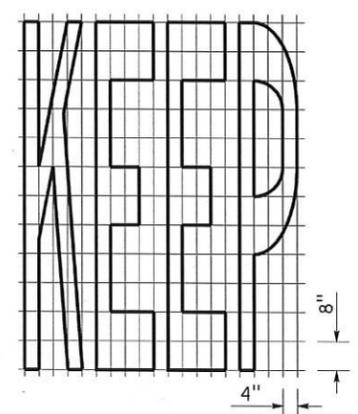
A=22 ft<sup>2</sup>



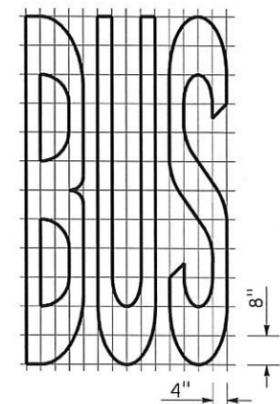
A=14 ft<sup>2</sup>



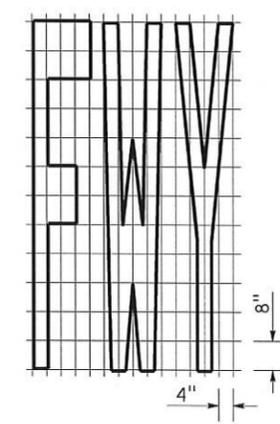
A=23 ft<sup>2</sup>



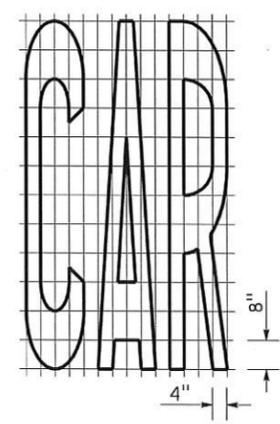
A=24 ft<sup>2</sup>



A=20 ft<sup>2</sup>

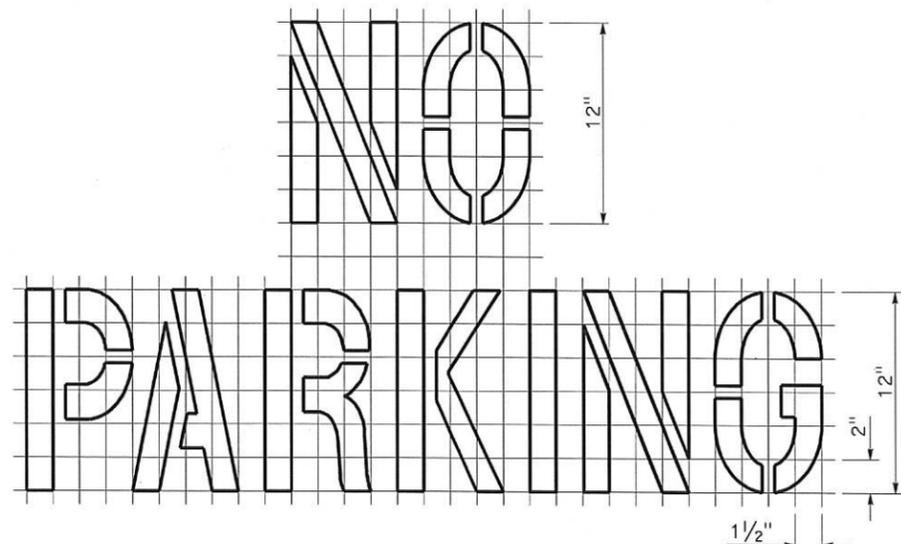


A=16 ft<sup>2</sup>

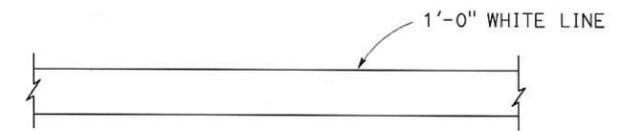


A=17 ft<sup>2</sup>

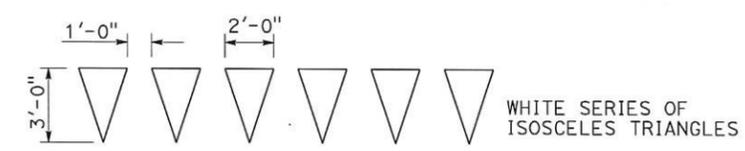
WORD MARKINGS			
ITEM	ft <sup>2</sup>	ITEM	ft <sup>2</sup>
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft<sup>2</sup>  
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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	RO.0/R8.6	15	18

*Gurinderpal Bhullar*  
REGISTERED CIVIL ENGINEER

July 19, 2013  
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 04-27-15

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

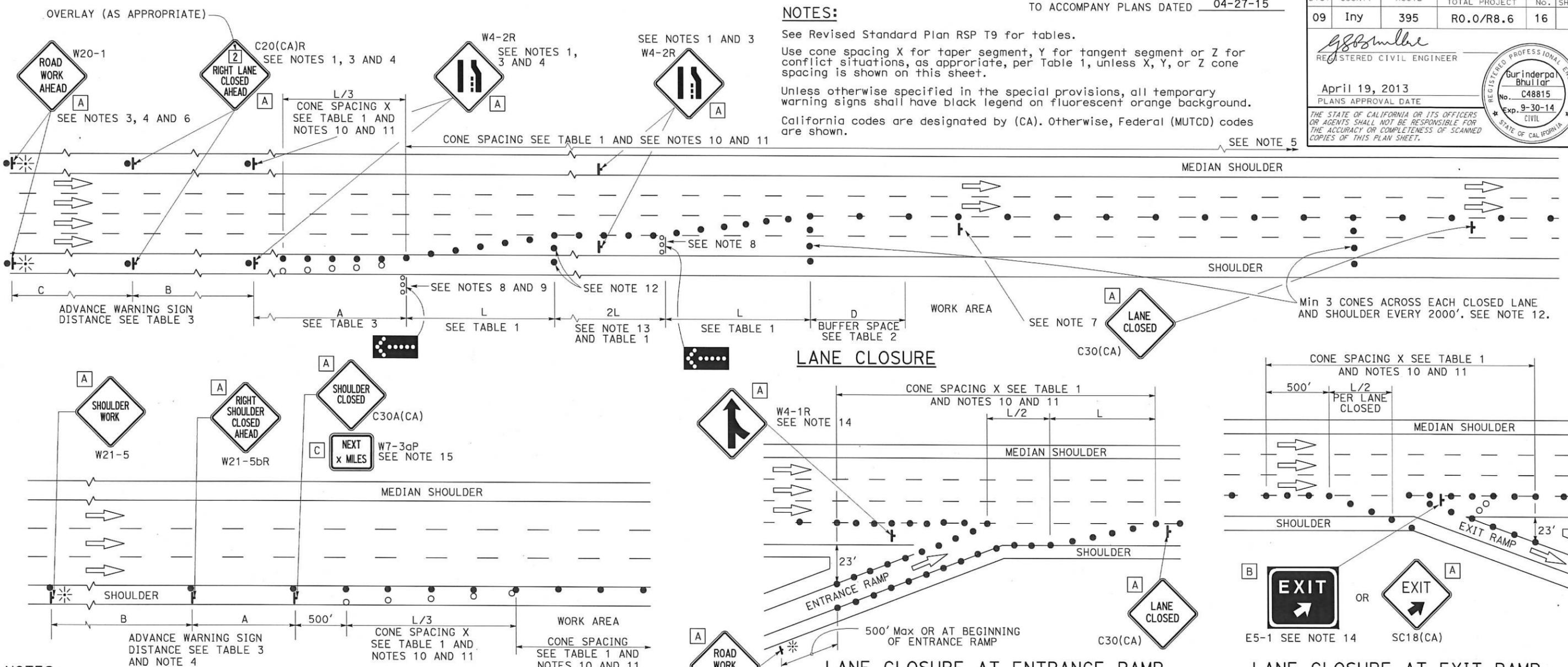
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	RO.0/R8.6	16	18

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.

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

**NOTES:**

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



**NOTES:**

- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane 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 G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

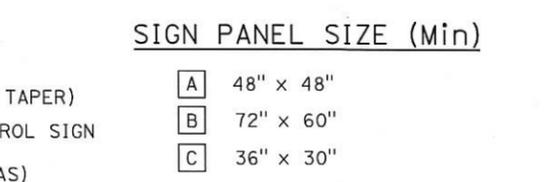
**SHOULDER CLOSURE**

- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT \_\_\_\_\_ MILES", use a C20(CA) "ROAD WORK NEXT \_\_\_\_\_ MILES" sign for the first advance warning sign.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at 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.

**LANE CLOSURE AT ENTRANCE RAMP**

- 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 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
- A W7-3aP "NEXT \_\_\_\_\_ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

**LANE CLOSURE AT EXIT RAMP**



**LEGEND**

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

**SIGN PANEL SIZE (Min)**

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T10**

2010 REVISED STANDARD PLAN RSP T10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	395	RO.0/R8.6	17	18

NOTES: See Revised Standard Plan RSP T9 for tables.

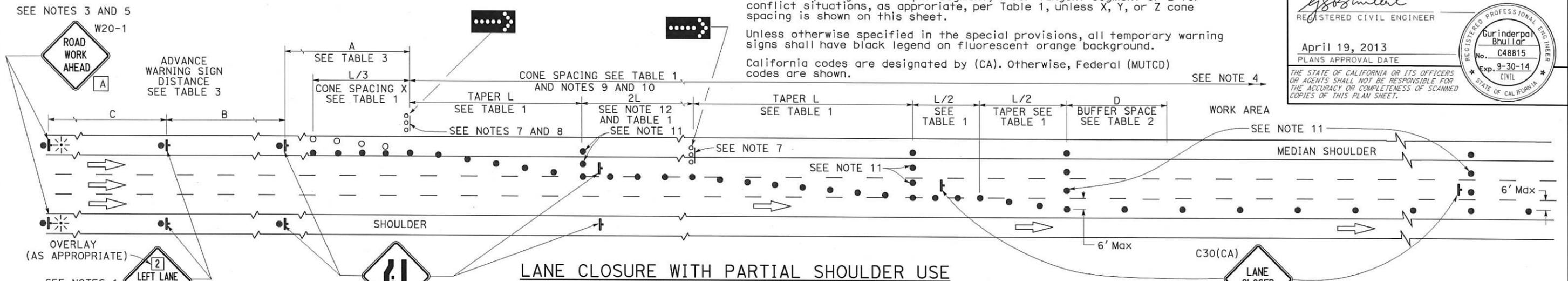
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

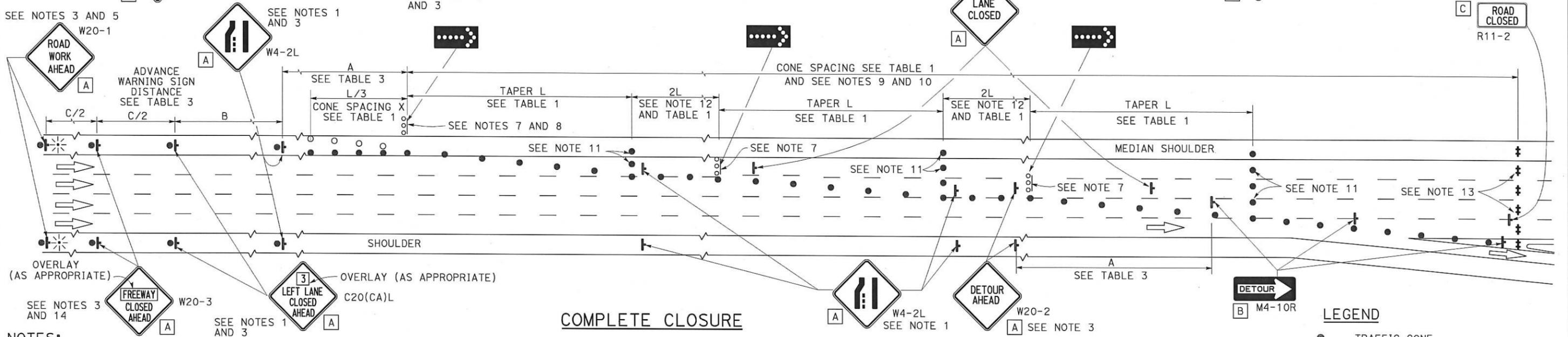
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

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

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



**LANE CLOSURE WITH PARTIAL SHOULDER USE**



**COMPLETE CLOSURE**

- NOTES:
- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
  - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
  - Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
  - A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
  - If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT \_\_\_ MILES", use a C20(CA) sign for the first advance warning sign.
  - Place a C30(CA) sign every 2000' throughout length of lane closure.

- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

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

SIGN PANEL SIZE (Min)

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

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- ⊞ FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURES ON  
 FREEWAYS AND EXPRESSWAYS**  
 NO SCALE

2010 REVISED STANDARD PLAN RSP T10A

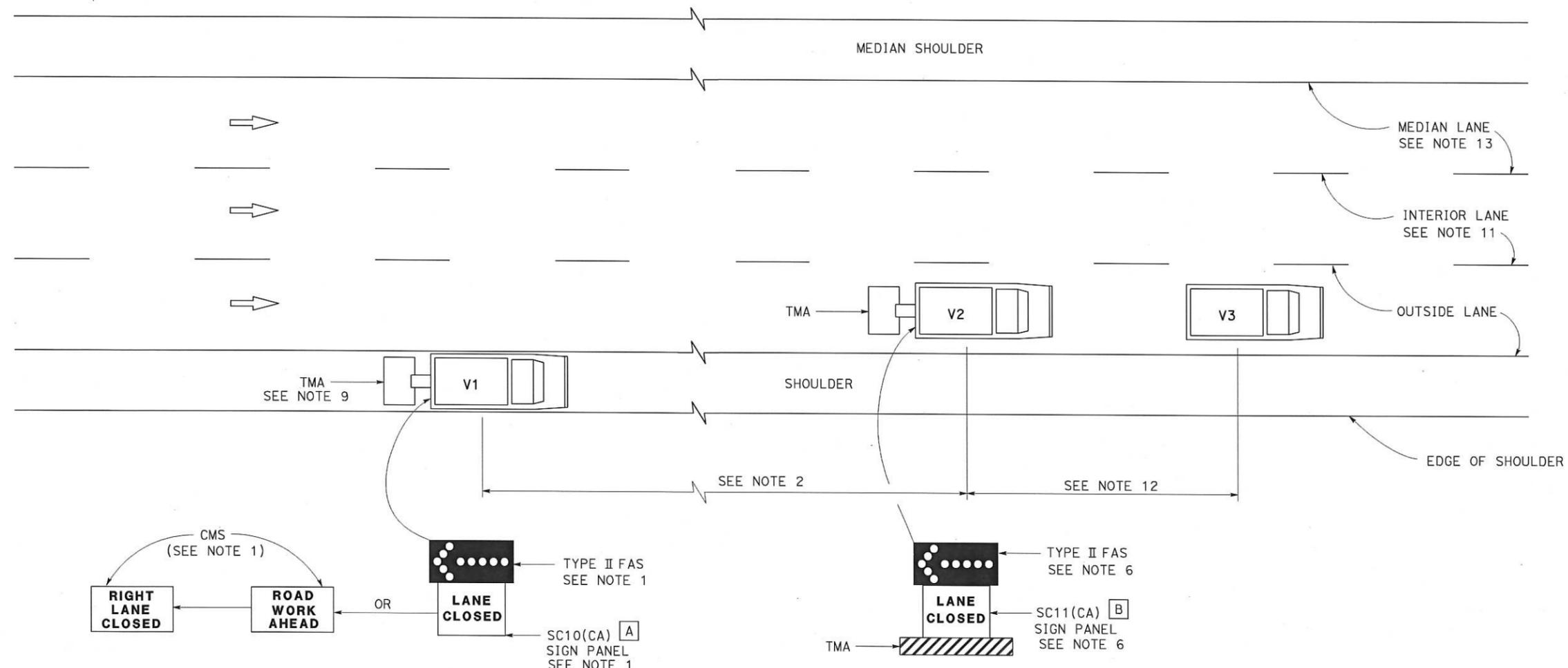
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	R0.0/R8.6	18	18

Registered Professional Engineer  
 Gurinderpa Bhullar  
 No. C48815  
 Exp. 9-30-14  
 CIVIL  
 STATE OF CALIFORNIA

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 04-27-15



**SIGN PANEL SIZE (Min)**

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

**LEGEND**

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

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

**NOTES:**

- Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
- A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
- Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
- 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.
- Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
- 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.
- All vehicles shall be equipped with flashing or rotating amber lights.
- 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.
- Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
- For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
- The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
- When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS**  
NO SCALE

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

2010 REVISED STANDARD PLAN RSP T15