Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	1	18

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN PLACER COUNTY

IN AND NEAR COLFAX

FROM ROUTE 174/80 SEPARATION

TO BEAR RIVER BRIDGE

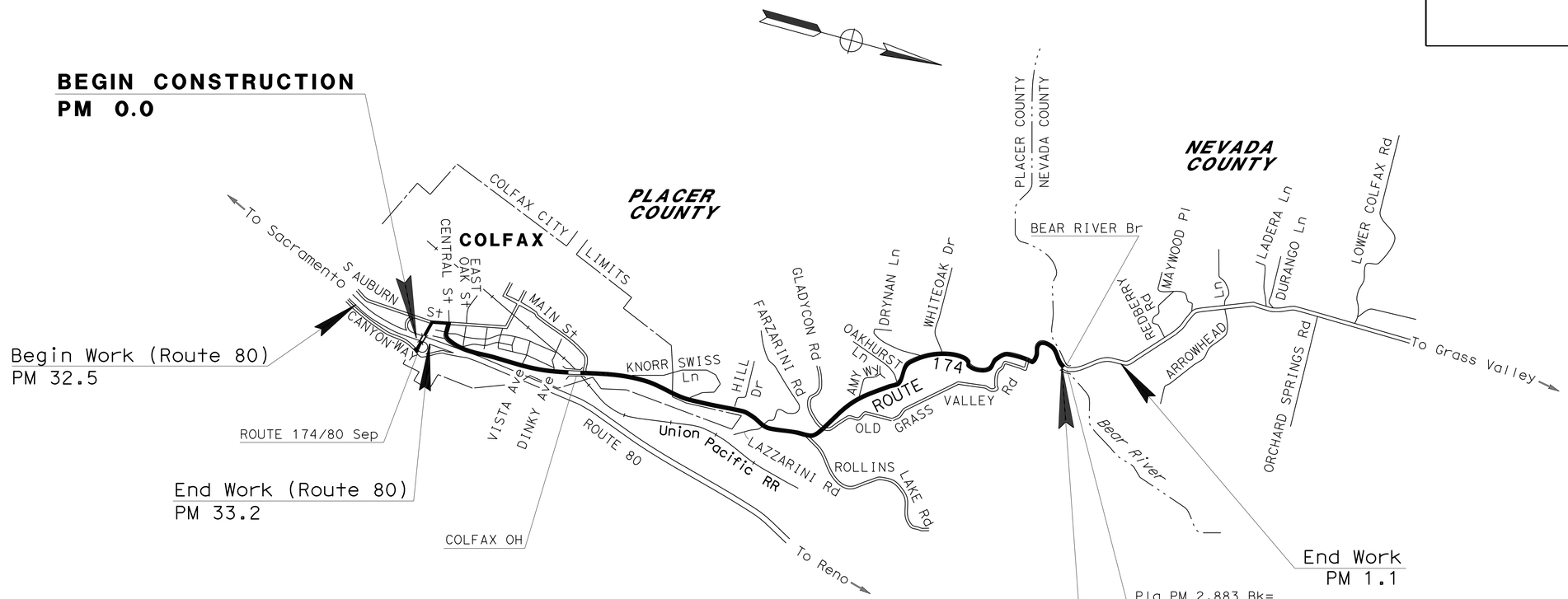
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-6	CONSTRUCTION DETAILS
7	CONSTRUCTION AREA SIGNS
8	PAVEMENT DELINEATION QUANTITIES
9-10	SUMMARY OF QUANTITIES
11-12	ELECTRICAL PLANS
13-15	TRAFFIC CONTROL SYSTEMS
16-18	REVISED STANDARD PLANS

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

LOCATION MAP



NO SCALE

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

PROJECT MANAGER: RONALD S. SYKES

DESIGN ENGINEER: RONALD S. SYKES

Ronald S. Sykes 3-11-13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

March 11, 2013
PLANS APPROVAL DATE

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

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

CONTRACT No.	03-4M5704
PROJECT ID	0312000112

LAST REVISION 03-13-13

DATE PLOTTED => 13-MAR-2013
TIME PLOTTED => 15:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	2	18

REGISTERED CIVIL ENGINEER 3-11-13 DATE

3-11-13
PLANS APPROVAL DATE

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

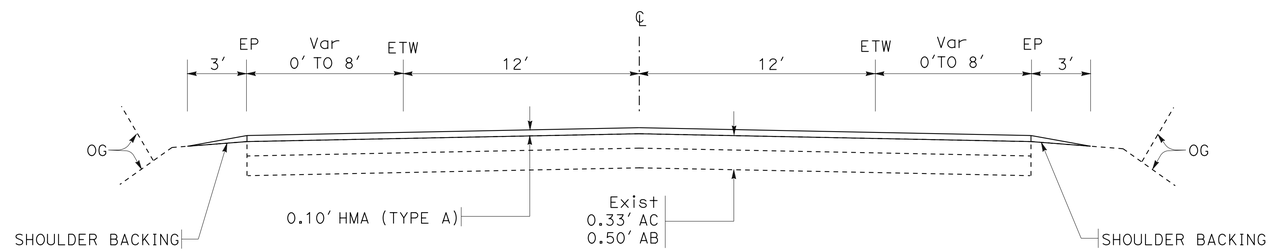
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. SEE CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES FOR REPLACE ASPHALT CONCRETE SURFACING LOCATIONS AND DIMENSIONS.
4. SEE CONSTRUCTION DETAILS FOR OTHER CASES (EXISTING CURB AND GUTTER OR DIKE SHOWN) AND FOR LIMITS OF WORK ON CANYON WAY.

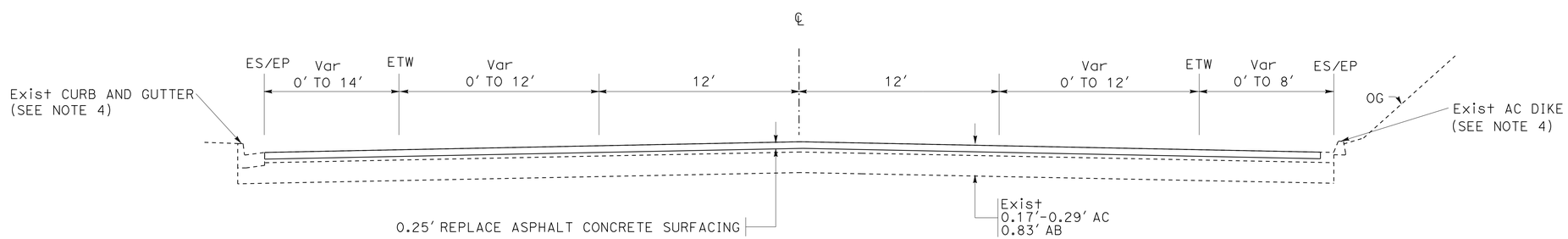
PAVEMENT CLIMATE REGION

LOW MOUNTAIN



Rte 174 PM 0.23 TO PM 2.84

(SEE NOTE 3)



CANYON WAY

CANYON WAY TO RTE 174 PM 0.23

(SEE NOTE 4)

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: NIK BEACH

CHECKED BY: DARLENE WULFF

REVISED BY | DATE REVISED

LAST REVISION 03-13-13 | DATE PLOTTED => 14-MAR-2013 | TIME PLOTTED => 08:10

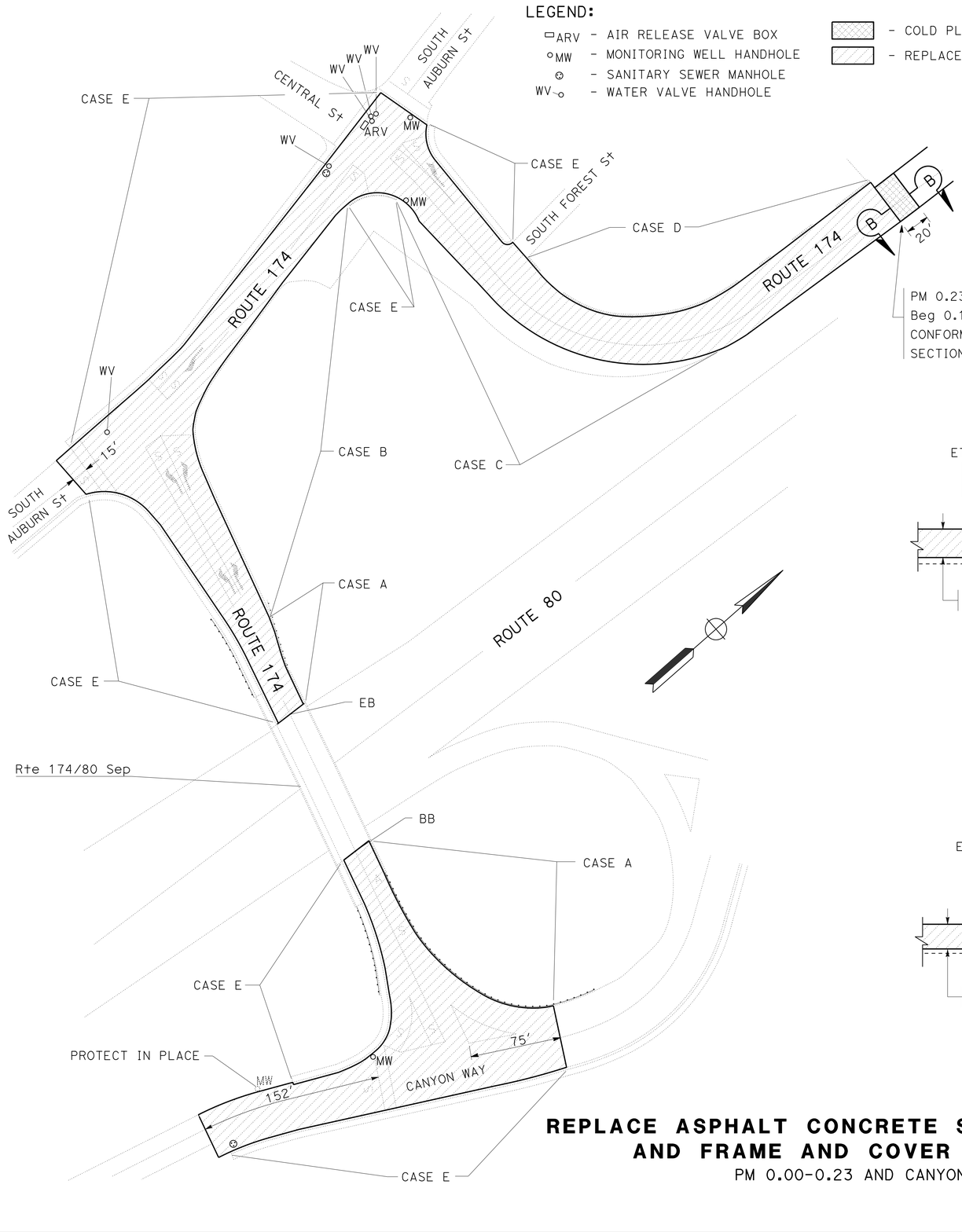
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	3	18

REGISTERED CIVIL ENGINEER 3-11-13 DATE

3-11-13
PLANS APPROVAL DATE

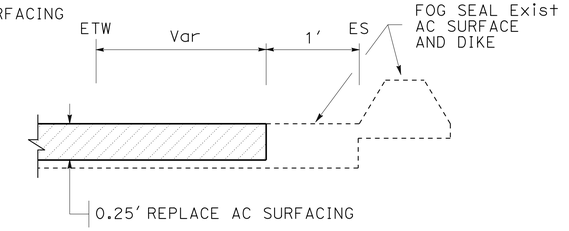
REGISTERED PROFESSIONAL ENGINEER RONALD S. SYKES No. C35526 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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

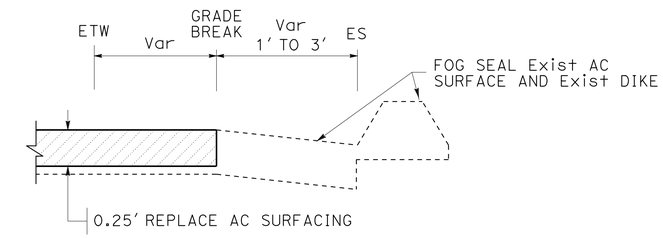


REPLACE ASPHALT CONCRETE SURFACING LIMITS AND FRAME AND COVER LOCATIONS

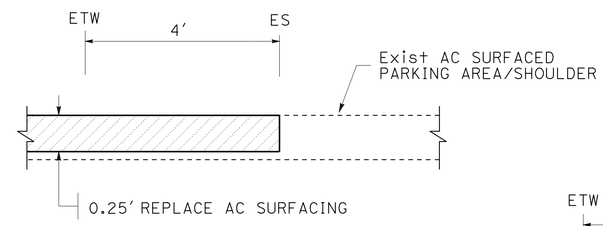
PM 0.00-0.23 AND CANYON WAY



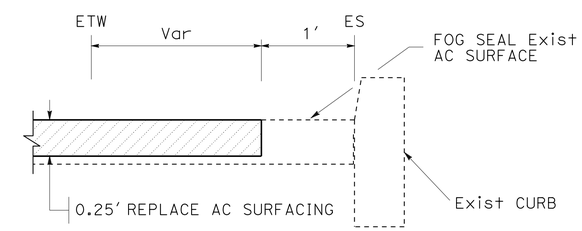
CASE A
SECTION VIEW



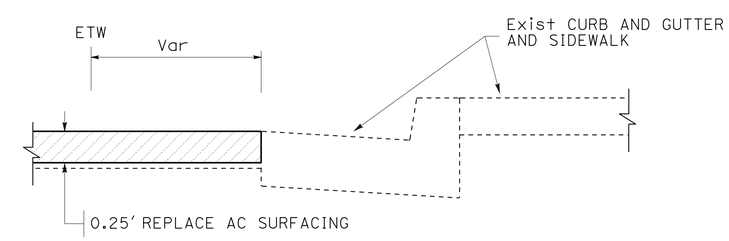
CASE B
SECTION VIEW



CASE C
SECTION VIEW



CASE D
SECTION VIEW



CASE E
SECTION VIEW

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: NIK BEACH
CHECKED BY: DARLENE WULFF
REVISED BY
DATE REVISED

LAST REVISION 01-23-13 | DATE PLOTTED => 14-MAR-2013 | TIME PLOTTED => 08:10

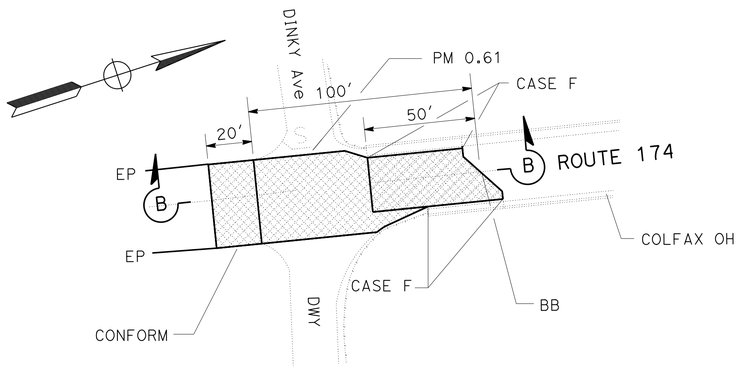
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	4	18

REGISTERED CIVIL ENGINEER 3-11-13 DATE

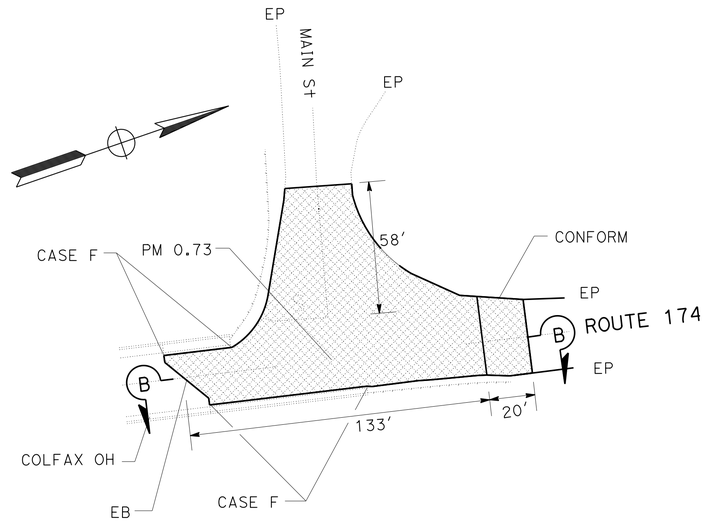
3-11-13
PLANS APPROVAL DATE

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

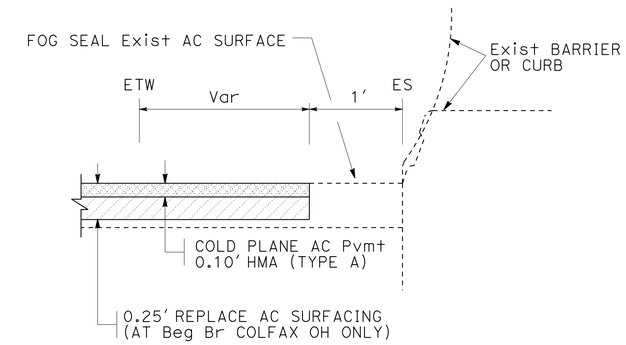
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



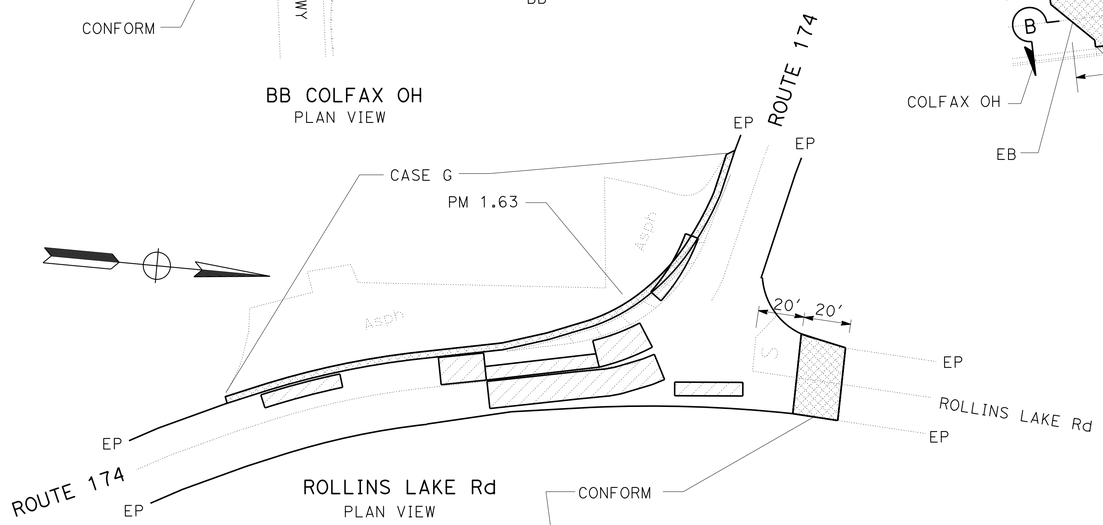
BB COLFAX OH
PLAN VIEW



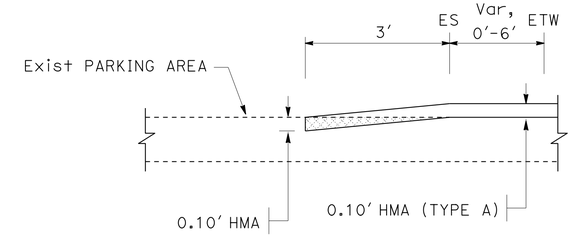
EB COLFAX OH
PLAN VIEW



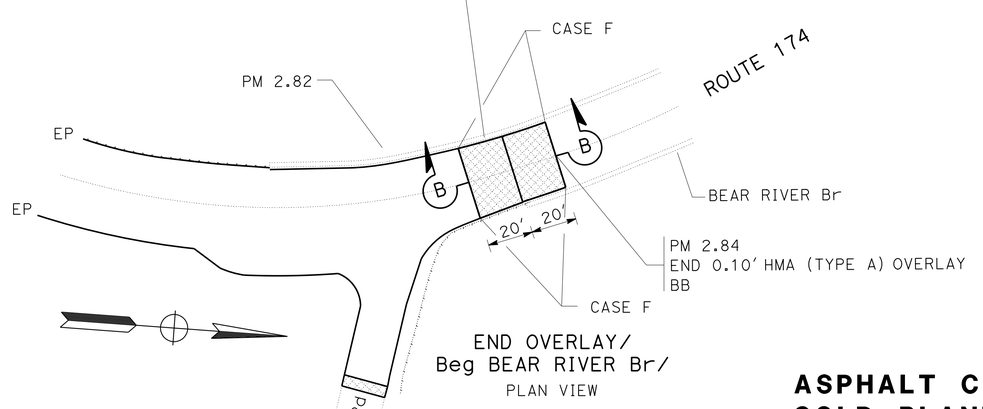
CASE F
SECTION VIEW



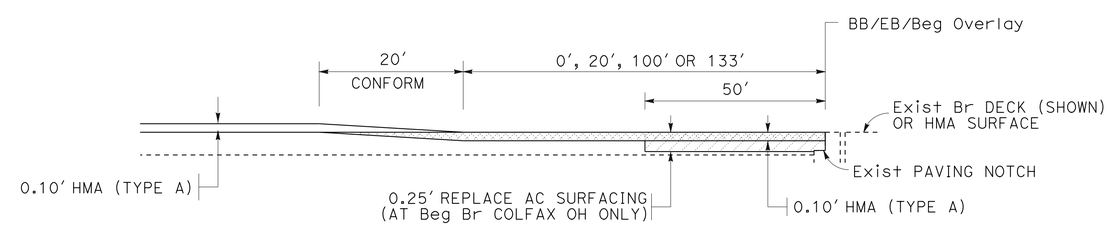
ROLLINS LAKE Rd
PLAN VIEW



CASE G
SECTION VIEW



END OVERLAY/
Beg BEAR RIVER Br/
PLAN VIEW



SECTION B-B

ASPHALT CONCRETE REPLACEMENT, COLD PLANING AND PAVING LIMITS

COLFAX OH, ROLLINS LAKE Rd AND BEAR RIVER BRIDGE

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: NIK BEACH
CHECKED BY: DARLENE WULFF
REVISED BY
DATE REVISED

LAST REVISION 03-07-13
DATE PLOTTED => 13-MAR-2013
TIME PLOTTED => 15:13

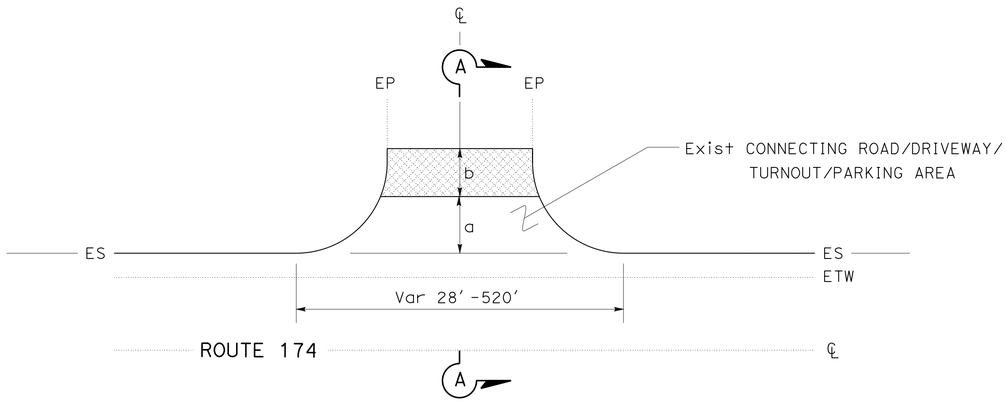
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	5	18

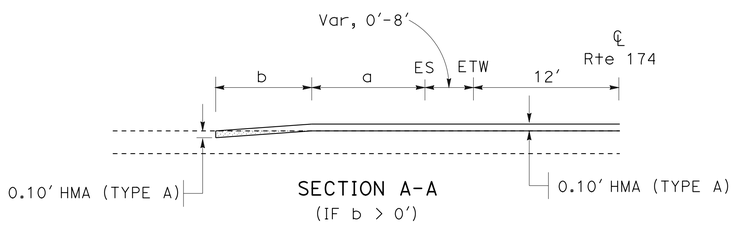
REGISTERED CIVIL ENGINEER 3-11-13 DATE

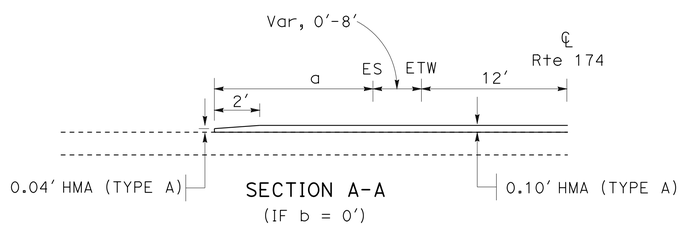
PLANS APPROVAL DATE 3-11-13

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

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







LOCATION/DESCRIPTION	a =	b =
PM 0.25-26 Lt, OAK St	10′	10′
PM 0.27 Lt, Dwy	16′	0′
PM 0.50-0.51 Lt, VISTA Ave	20′	10′
PM 0.52-0.55 Rt, Dwy	10′	0′
PM 0.59 Lt, Dwy	5′	0′
PM 0.59 Rt, Dwy	10′	0′
PM 0.74-0.76 Rt, Dwy	0′	5′
PM 0.83-0.93 Rt, TURNOUT	10′	0′
PM 0.87-0.88 Lt, Dwy	0′	5′
PM 1.01-1.04 Lt, Dwy	0′	5′
PM 1.05-1.11 Rt, PARKING AREA	0′	5′
PM 1.19 Rt, Dwy	5′	0′
PM 1.20-1.23 Lt, Dwy	5′	0′
PM 1.33 Lt, Dwy	0′	5′
PM 1.35-1.39 Rt, DWY AND PARKING AREA	5′	5′
PM 1.39 Lt, Dwy	0′	5′
PM 1.43-1.48 Rt, TURNOUT/Dwy	5′	0′
PM 1.63-1.64 Rt, ROLLINS LAKE Rd	41′	20′
PM 1.66-1.68 Lt, GLADYCON Rd	18′	10′
PM 1.67-1.70 Rt, OLD GRASS VALLEY Rd	48′	10′
PM 1.84 Lt, Dwy (AMY WAY)	5′	0′
PM 1.99-2.00 Rt, Dwy	5′	0′
PM 2.04-2.05 Lt, Dwy (OAKHURST LANE)	0′	5′
PM 2.12-2.15 Rt, Dwy	0′	5′
PM 2.15-2.17 Lt, Dwy (DRYNAN LANE)	8′	0′
PM 2.20-2.23 Lt, WHITE OAK Dr	16′	10′
PM 2.30-2.31 Lt, Dwy	5′	0′
PM 2.32-2.34 Rt, TURNOUT/Dwy	5′	0′
PM 2.40-2.43 Rt, TURNOUT	5′	0′
PM 2.58-2.61 Rt, OLD GRASS VALLEY Rd/TURNOUT	10′	0′
PM 2.69-2.70 Lt, Dwy	0′	5′
PM 2.81-2.83 Rt, TURNOUT	10′	0′
2.83 RT, Dwy (OLD BRIDGE Rd)	60′	5′

PAVING AND CONFORM LIMITS AND DETAILS

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR RONALD S. SYKES

CALCULATED-DESIGNED BY NIK BEACH
CHECKED BY DARLENE WULFF

REVISED BY | DATE REVISED

LAST REVISION 03-07-13 | DATE PLOTTED => 13-MAR-2013 | TIME PLOTTED => 15:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	6	18

REGISTERED CIVIL ENGINEER 3-11-13 DATE

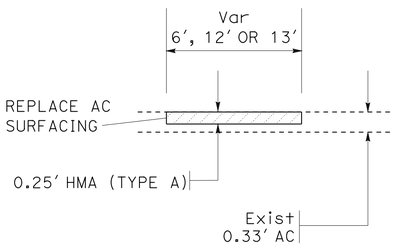
3-11-13
PLANS APPROVAL DATE

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

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

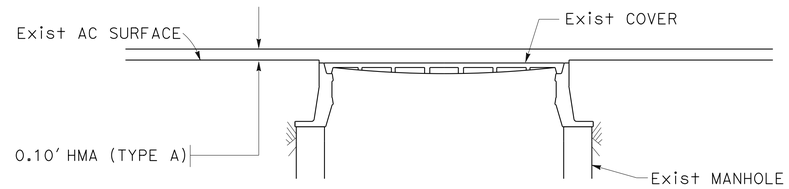
NOTES:

1. SEE SUMMARY OF QUANTITIES FOR OTHER DIMENSIONS AND/OR LOCATIONS OF ADJUST FRAME AND COVER TO GRADE, REPLACE ASPHALT CONCRETE SURFACING AND RECONSTRUCT METAL BEAM GUARD RAILING.



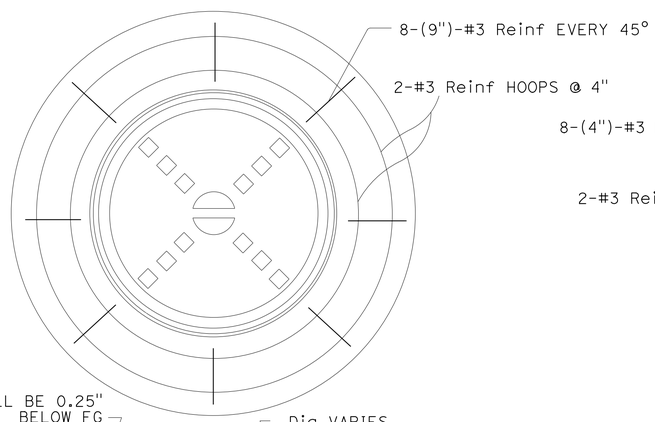
REPLACE AC SURFACING

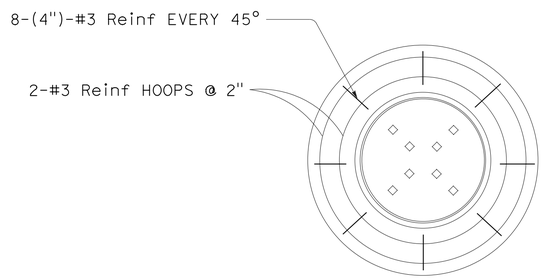
SECTION VIEW - PM 0.61-2.78

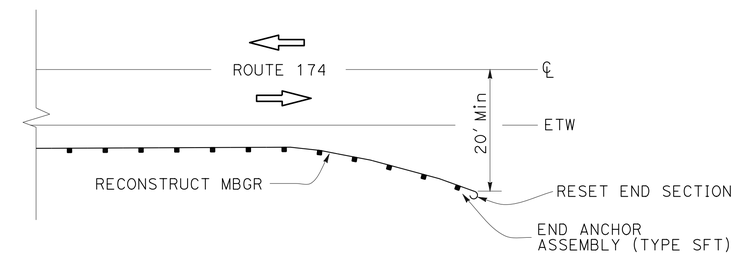


HMA PAVING OVER EXISTING FRAME AND COVER

MANHOLE (FIBER OPTICS)
SB PM 0.75
SB PM 1.12
SB PM 1.50

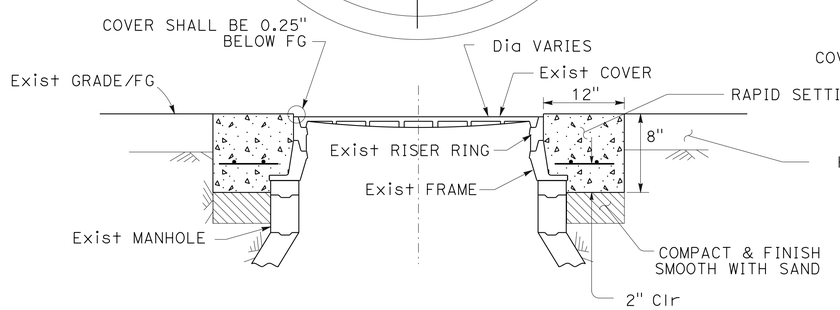




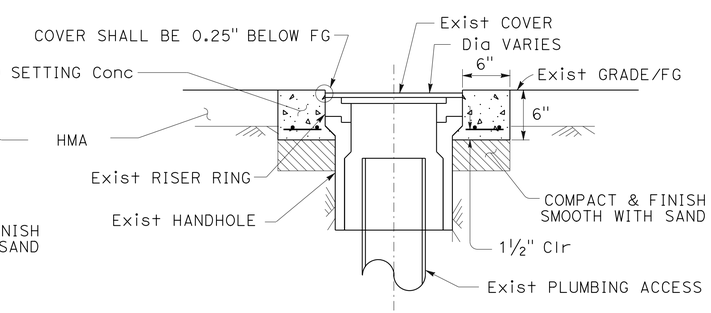


METAL BEAM GUARD RAILING END OFFSET - TYPICAL

PLAN VIEW

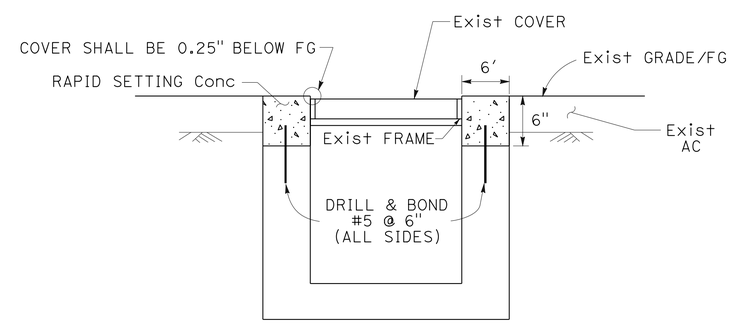


MANHOLE
(SANITARY SEWER)



HANDHOLE
(MONITORING WELL AND WATER VALVE)

ADJUST FRAME AND COVER TO GRADE



BOX
(AIR RELEASE VALVE)

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: NIK BEACH
CHECKED BY: DARLENE WULFF
REVISED BY / DATE REVISED

LAST REVISION 03-12-13 | DATE PLOTTED => 13-MAR-2013 | TIME PLOTTED => 15:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	7	18

REGISTERED CIVIL ENGINEER 3-11-13 DATE

3-11-13
PLANS APPROVAL DATE

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

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
A	G20-1[Spec](3)		60" x 30"	ROAD WORK NEXT 3 MILES	2 - 4" x 6"	2
B		C40(Mod)	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	2
C	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	16
D	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	7

NOTES:
1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

LEGEND:
- <CA> CALIFORNIA SIGN CODE
- SC9 <CA> TEMPORARY CAS
- PORTABLE CHANGEABLE MESSAGE SIGN

SIGN DETAILS

(A) G20-1[Spec](3)

ROAD WORK
NEXT 3 MILES

60"X30"

6" C SERIES LETTERS

RETROREFLECTIVE ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.

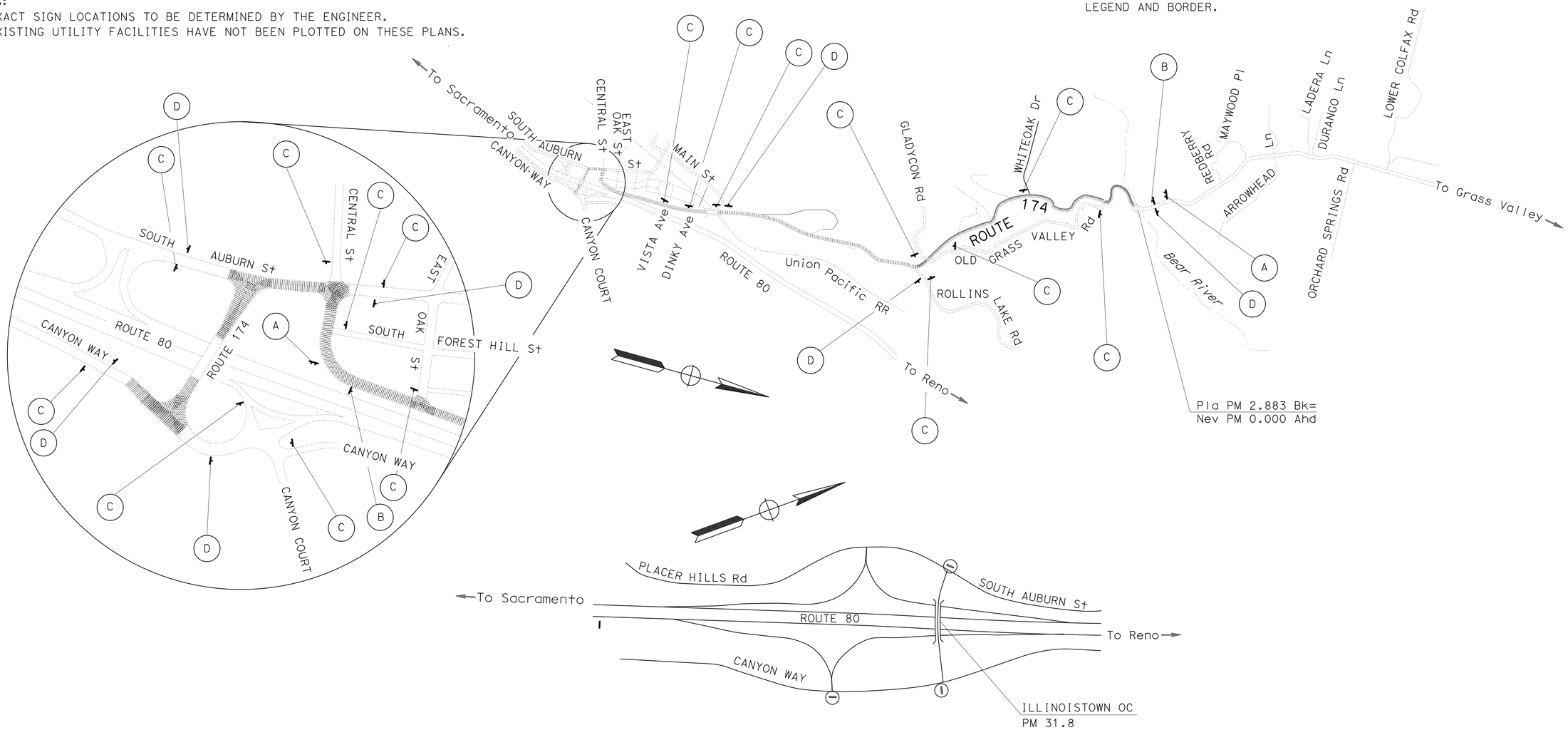
(B) C40(Mod)<CA>

TRAFFIC FINES
DOUBLED IN
WORK ZONES

48"X36"

4" D SERIES LETTERS

RETROREFLECTIVE WHITE BACKGROUND WITH BLACK LEGEND AND BORDER.



PCMS LOCATION AND Temp CAS DURING EB Rte 80 TO Rte 174 RAMP CLOSURE

NOTE: EXACT PCMS AND Temp CAS LOCATIONS TO BE DETERMINED BY THE ENGINEER.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: NIK BEACH
CHECKED BY: DARLENE WULFF
REVISED BY
DATE REVISED

LAST REVISION 03-13-13 | DATE PLOTTED => 13-MAR-2013 | TIME PLOTTED => 15:13

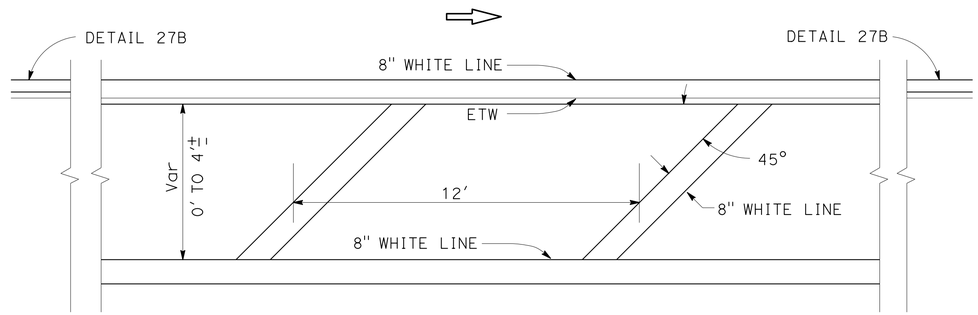
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	8	18

REGISTERED CIVIL ENGINEER 3-11-13 DATE

3-11-13
PLANS APPROVAL DATE

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

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



DIAGONALS WITH BORDER DETAIL

PM 1.62-1.65 Lt

TRAFFIC LINES AND PAVEMENT MARKERS

LOCATION/DESCRIPTION	4" THERMOPLASTIC TRAFFIC STRIPE			4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)		8" THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)		
	DETAIL 27B	DETAIL 19	DETAIL 22	DETAIL 6	DETAIL 19	DETAIL 38	DETAIL 27C	TYPE D	TYPE G	TYPE H
	LF							EA		
Rte 174 PM 0.00-2.84, CONNECTING ROADS	29,453*	755	26,506*	1,690	755	520	885	1,100	31	33
TOTAL	56,714			2,445		520	885	1,164		

*RESTRIPE ROUTE 174/80 SEPARATION AND BEAR RIVER BRIDGE.

PAVEMENT MARKINGS

LOCATION/DESCRIPTION	THERMOPLASTIC PAVEMENT MARKING					NOTES
	"STOP"	"AHEAD"	TYPE III ARROW	8" WHITE LINE	1'-0" WHITE LINE	
	SQFT					
CANYON WAY	88	31			157	4 - "STOP", 1 - "AHEAD", 53' LIMIT LINE, 104' CROSSWALK
SOUTH AUBURN St/Rte 174 (PM 0.03-0.08)	110		210		164	5 - "STOP", 3-TYPE III (L) ARROWS, 2-TYPE III (R) ARROWS, 64' LIMIT LINE, 100' CROSSWALK
SOUTH AUBURN St/Rte 174 (PM 0.12-0.14)	88		42		148	4 - "STOP", 1-TYPE III (R) ARROWS, 61' LIMIT LINE, 87' CROSSWALK
OAK St	22				26	1 - "STOP", 26' LIMIT LINE
VISTA Ave	22				25	1 - "STOP", 25' LIMIT LINE
MAIN St	44	31			29	2 - "STOP", 1 - "AHEAD", 29' LIMIT LINE
ROLLINS LAKE Rd (PM 1.62-1.65)	44	31		99	24	2 - "STOP", 1 - "AHEAD", 24' LIMIT LINE, 148' DIAGONAL AND BORDER LINES
GLADYCON Rd	22				23	1 - "STOP", 23' LIMIT LINE
OLD GRASS VALLEY Rd	22				16	1 - "STOP", 16' LIMIT LINE
WHITE OAK Dr	22				30	1 - "STOP", 30' LIMIT LINE
SUBTOTAL	484	93	252	99	642	
TOTAL	1570					

PAVEMENT DELINEATION DETAILS AND QUANTITIES

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: NIK BEACH
CHECKED BY: DARLENE WULFF
REVISED BY / DATE REVISED

LAST REVISION 03-07-13 | DATE PLOTTED => 13-MAR-2013 | TIME PLOTTED => 15:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	9	18

Ronald S. Sykes 3-11-13
REGISTERED CIVIL ENGINEER DATE

3-11-13
PLANS APPROVAL DATE

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

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

REPLACE ASPHALT CONCRETE SURFACING

LOCATION/ DESCRIPTION				REPLACE ASPHALT CONCRETE SURFACING
NB/SB AND PM OR OTHER	WHEEL PATH	L	W	CY
CANYON WAY/Rte 174 TO Rte 174/80 Sep	SEE Const DETAILS			205.2
Rte 174 FROM Rte 174/80 Sep TO PM 0.23	SEE Const DETAILS			446.8
NB PM 0.61 - 0.62	Lt/Rt	55′	13′	6.6
NB PM 1.62 - 1.63	Lt/Rt	75′	12′	8.3
NB PM 1.63 - 1.63	Rt	30′	6′	1.7
NB PM 1.72 - 1.72	Rt	23′	6′	1.3
NB PM 2.41 - 2.43	Lt/Rt	110′	12′	12.2
SB PM 2.78 - 2.76	Rt	120′	6′	6.7
SB PM 2.46 - 2.45	Rt	85′	6′	4.7
SB PM 2.44 - 2.43	Rt	45′	6′	2.5
SB PM 2.38 - 2.37	Rt	50′	6′	2.8
SB PM 2.37 - 2.37	Rt	10′	6′	0.6
SB PM 2.29 - 2.26	Rt	160′	6′	8.9
SB PM 2.25 - 2.25	Rt	12′	6′	0.7
SB PM 2.24 - 2.24	Rt	10′	6′	0.6
SB PM 2.20 - 2.19	Rt	62′	6′	3.4
SB PM 2.16 - 2.16	Rt	10′	6′	0.6
SB PM 1.91 - 1.90	Rt	40′	6′	2.2
SB PM 1.85 - 1.84	Rt	30′	6′	1.7
SB PM 1.83 - 1.83	Rt	20′	6′	1.1
SB PM 1.71 - 1.71	Rt	10′	6′	0.6
SB PM 1.71 - 1.70	Rt	80′	6′	4.4
SB PM 1.69 - 1.69	Rt	15′	6′	0.8
SB PM 1.68 - 1.66	Rt	115′	6′	6.4
SB PM 1.65 - 1.65	Rt	15′	6′	0.8
SB PM 1.65 - 1.65	Rt	10′	6′	0.6
SB PM 1.64 - 1.64	Rt	30′	6′	1.7
SB PM 1.63 - 1.63	Lt/Rt	25′	12′	2.8
SB PM 1.63 - 1.62	Rt	75′	6′	4.2
SB PM 1.61 - 1.61	Lt/Rt	20′	12′	2.2
SB PM 1.60 - 1.60	Rt	36′	6′	2.0
SB PM 0.61 - 0.62	Lt/Rt	44′	13′	5.3
TOTAL				750.4

UTILITY FRAMES AND COVERS

LOCATION/ DESCRIPTION	PROTECT IN PLACE (N)	ADJUST FRAME AND COVER TO GRADE
	EA	
WB CANYON WAY - MONITORING WELL	1	
EB CANYON WAY - SEWER MANHOLE		1
WB CANYON WAY - MONITORING WELL		1
SB PM 0.06 - WATER VALVE		1
SB PM 0.12 - SEWER MANHOLE		1
SB PM 0.12 - WATER VALVE		1
SB PM 0.12 - WATER VALVES		3
SB PM 0.12 - AIR RELEASE VALVE		1
SB PM 0.13 - MONITORING WELL		1
NB PM 0.14 - MONITORING WELL		1
SB PM 0.75 - FIBER OPTIC MANHOLE	1	
SB PM 1.12 - FIBER OPTIC MANHOLE	1	
SB PM 1.50 - FIBER OPTIC MANHOLE	1	
TOTAL	4	11

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

PAVEMENT MARKING REMOVAL

LOCATION/ DESCRIPTION	REMOVE THERMOPLASTIC PAVEMENT MARKING		NOTES
	"STOP"	1′-0" WHITE LINE	
	SQFT		
OAK St	22	26	1 - "STOP", 26′ LIMIT LINE
VISTA Ave	22	25	1 - "STOP", 25′ LIMIT LINE
ROLLINS LAKE Rd	22	24	1 - "STOP", 24′ LIMIT LINE
GLADYCON Rd	22	23	1 - "STOP", 23′ LIMIT LINE
OLD GRASS VALLEY Rd		16	16′ LIMIT LINE
WHITE OAK Dr	22	30	1 - "STOP", 30′ LIMIT LINE
SUBTOTAL	110	144	
TOTAL	254		

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: NIK BEACH
CHECKED BY: DARLENE WULFF
REVISED BY
DATE REVISED

LAST REVISION 03-13-13
DATE PLOTTED => 13-MAR-2013
TIME PLOTTED => 15:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	10	18

REGISTERED CIVIL ENGINEER 3-11-13 DATE

3-11-13
PLANS APPROVAL DATE

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

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

HOT MIX ASPHALT DIKE

LOCATION/ DESCRIPTION	REMOVE ASPHALT CONCRETE DIKE	PLACE HOT MIX ASPHALT DIKE (TYPE F)	PLACE HOT MIX ASPHALT DIKE (TYPE D)	HOT MIX ASPHALT (TYPE A)
	LF			TON
PM 2.32 - 2.36 L+	170		170	10
PM 2.39 - 2.41 L+	95		95	6
PM 2.76 - 2.82 L+	290	290		4
TOTAL	555	290	265	20*

*FOR GRAND TOTAL SEE GRINDING, PAVING, FOG SEAL AND SHOULDER BACKING TABLE.

GRINDING, PAVING, FOG SEAL AND SHOULDER BACKING

LOCATION/ DESCRIPTION	COLD PLANE ASPHALT CONCRETE PAVEMENT	HOT MIX ASPHALT (TYPE A)	TACK COAT	SHOULDER BACKING	ASPHALTIC EMULSION (FOG SEAL COAT)
	SQYD	TON			
CANYON WAY TO PM 0.23					0.11
PM 0.23 - 0.62	586	604	2.5	70	0.01
PM 0.71 - 1.65	1504	1442	5.9	155	0.01
PM 1.65 - 2.84	395	1442	5.9	213	0.04
FROM HMA DIKE TABLE		20			
TOTAL	2485	3508	14.3	438	0.17

GUARD RAILING, MARKERS AND SIGNS

LOCATION/ DESCRIPTION	RECONSTRUCT METAL BEAM GUARD RAILING	REMOVE METAL BEAM GUARD RAILING	TREATED WOOD WASTE	TRANSITION RAILING (TYPE WB)	END ANCHOR ASSEMBLY (TYPE SFT)	RESET END SECTION	EXISTING STEEL POSTS (N)	REMOVE CABLE ANCHOR ASSEMBLY (N)	REMOVE CONCRETE POST FOOTING (N)	OBJECT MARKER (TYPE L-1)	RESET ROADSIDE SIGN (ONE POST)
	LF		LB	EA							
PM 2.70 - 2.81 L+	625		3863		1	1	59***	1	2		
PM 2.81 - 2.82 L+		25	460	1			0				
PM 2.83 - 2.83 R+			1196		1	1	0			1	1**
PM 2.83 - 2.84 R+	75	25	460	1			0				
TOTAL	700	50	5979	2	2	2	59	1	2	1	1

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
** R26<CA> MOUNTED ON 4" x 4" POST.
***EACH EXISTING STEEL POST TO BE REUSED AT ITS ORIGINAL LOCATION.

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR RONALD S. SYKES
CALCULATED-DESIGNED BY NIK BEACH
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 01-23-13 DATE PLOTTED => 13-MAR-2013 TIME PLOTTED => 15:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	11	18

H. Golban 3-11-13
REGISTERED ELECTRICAL ENGINEER DATE

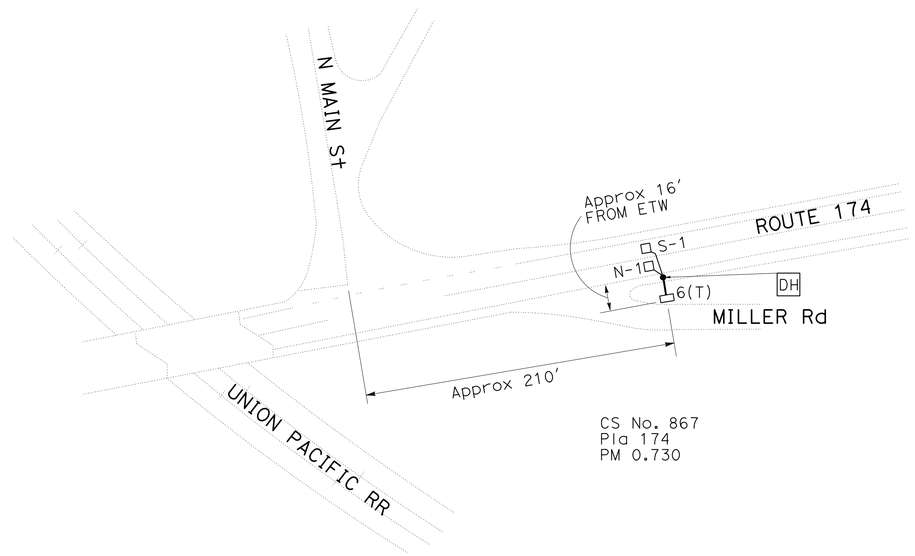
3-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HABIB GOLBAN
No. E17928
Exp. 09-30-14
ELECTRICAL
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.

ABBREVIATION:

CS COUNT STATION



TRAFFIC MONITORING STATION (COUNT)

NO SCALE

E-1

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: NELSON LEE
CALCULATED-DESIGNED BY: JAMIE KOJAK
CHECKED BY: HABIB GOLBAN
REVISED BY
DATE REVISED

LAST REVISION 02-13-13
DATE PLOTTED => 13-MAR-2013
TIME PLOTTED => 15:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	12	18

H. Golban 3-11-13
REGISTERED ELECTRICAL ENGINEER DATE

3-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HABIB GOLBAN
No. E17928
Exp. 09-30-14
ELECTRICAL
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.

TRAFFIC MONITORING STATION (COUNT)

SHEET No.	(N) DETECTOR HANDHOLE	(N) No. 6 TRAFFIC PULL BOX	(N) TRENCH IN DIRT 30" DEEP	(N) TYPE A LOOP
	EA	EA	FT	EA
E-1	1	1	16	2

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

ELECTRICAL QUANTITIES

E-2

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: NELSON LEE
CALCULATED-DESIGNED BY: JAMIE KOJAK
CHECKED BY: HABIB GOLBAN
REVISED BY
DATE REVISED

LAST REVISION 02-13-13
DATE PLOTTED => 13-MAR-2013
TIME PLOTTED => 15:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	13	18

REGISTERED CIVIL ENGINEER 12-7-12 DATE

3-11-13
PLANS APPROVAL DATE

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

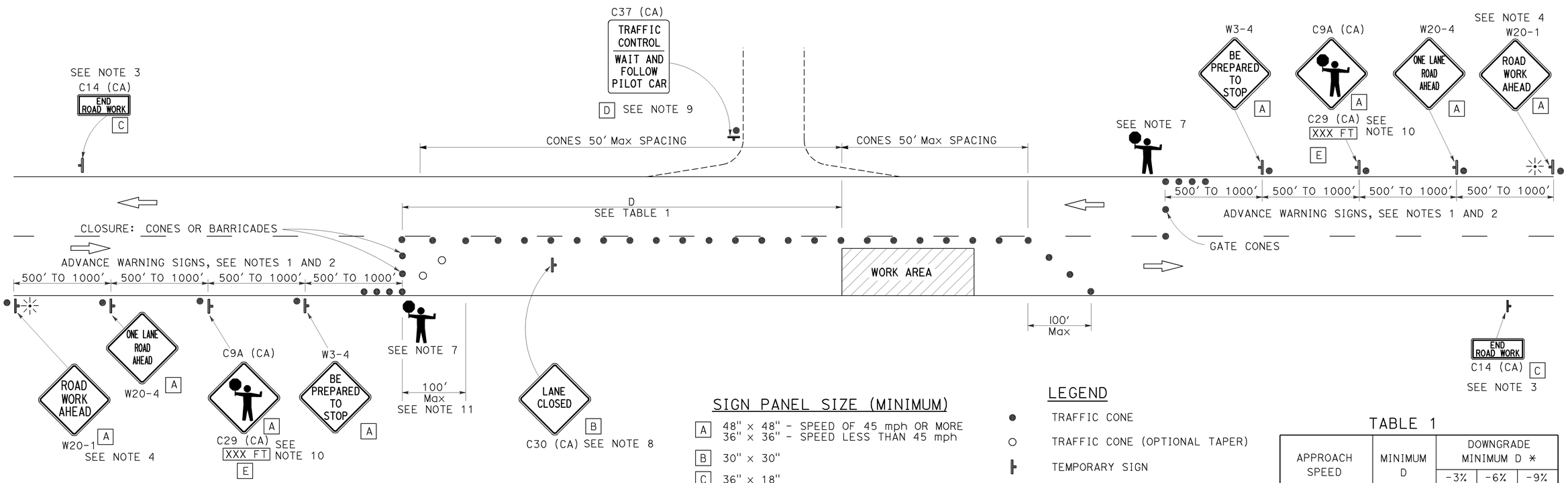
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

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

LEGEND

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

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

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

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
2. 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.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____MILES", use a W20-4 sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. 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.
8. 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.
9. When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	14	18

REGISTERED CIVIL ENGINEER 12-7-12 DATE

3-11-13
PLANS APPROVAL DATE

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

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

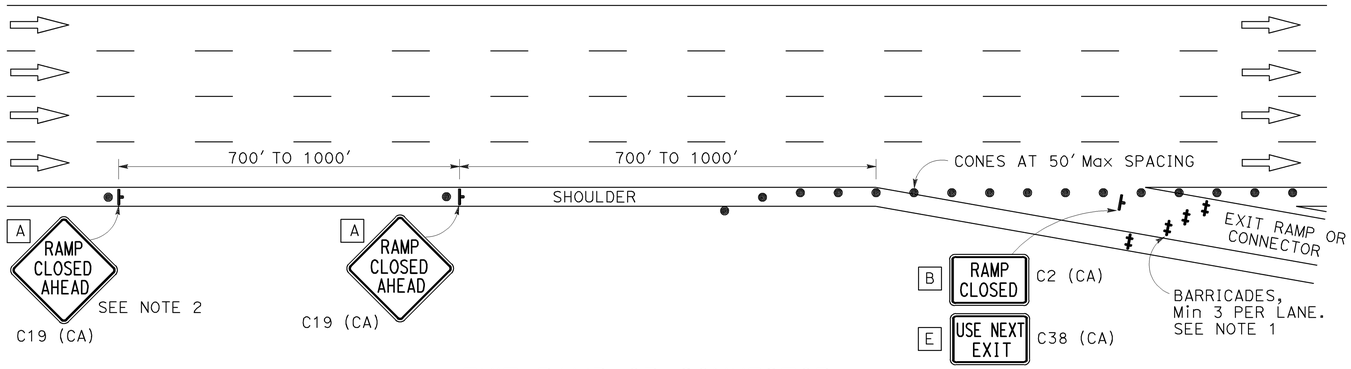
TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

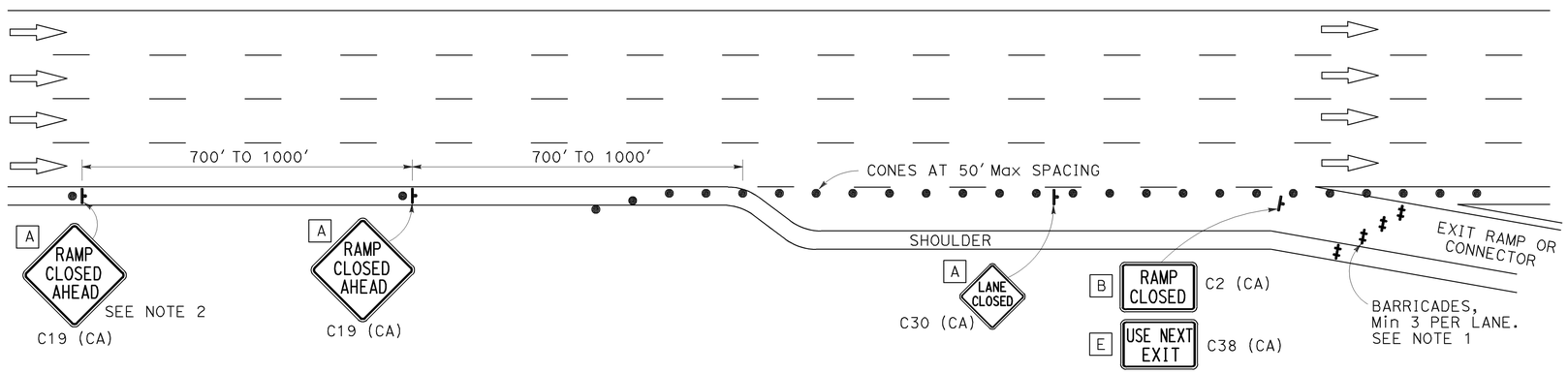
- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE
  36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

LEGEND

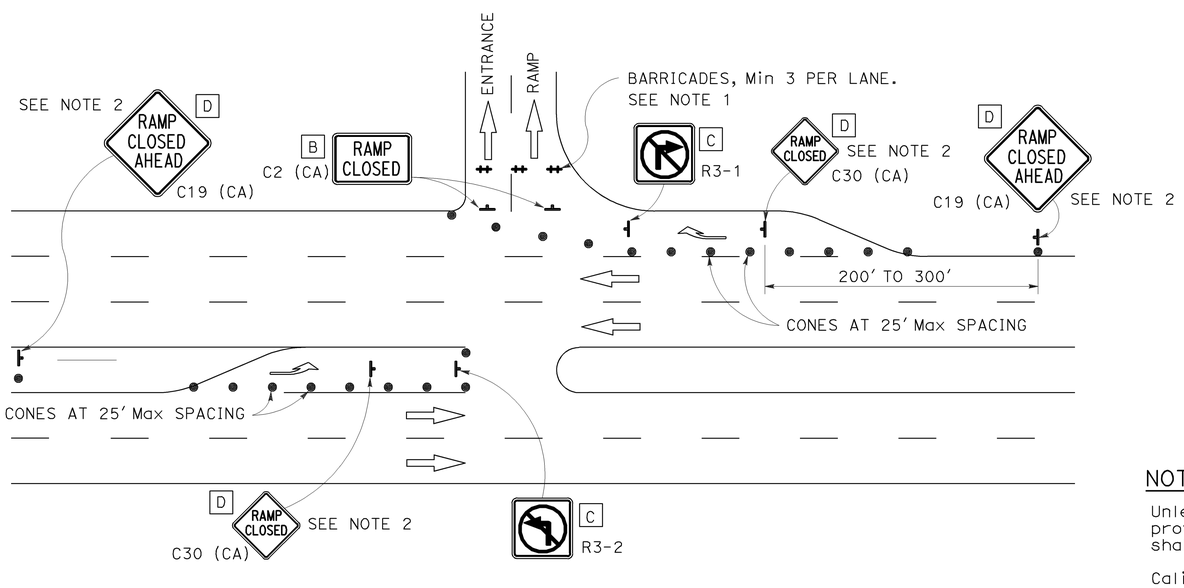
- TRAFFIC CONE
- TEMPORARY SIGN
- BARRICADES



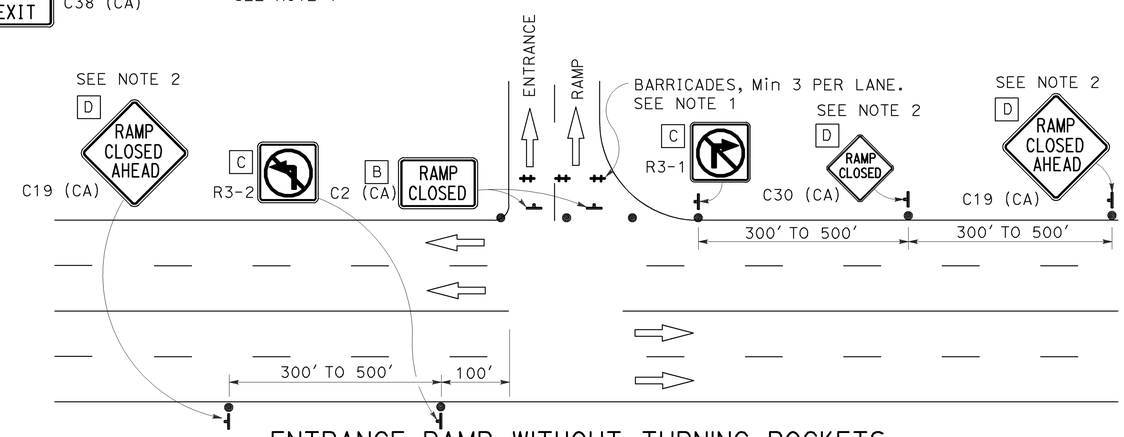
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19 (CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" sign in the gore area shall be covered during ramp closures.

NOTES:

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

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45

00-00-00

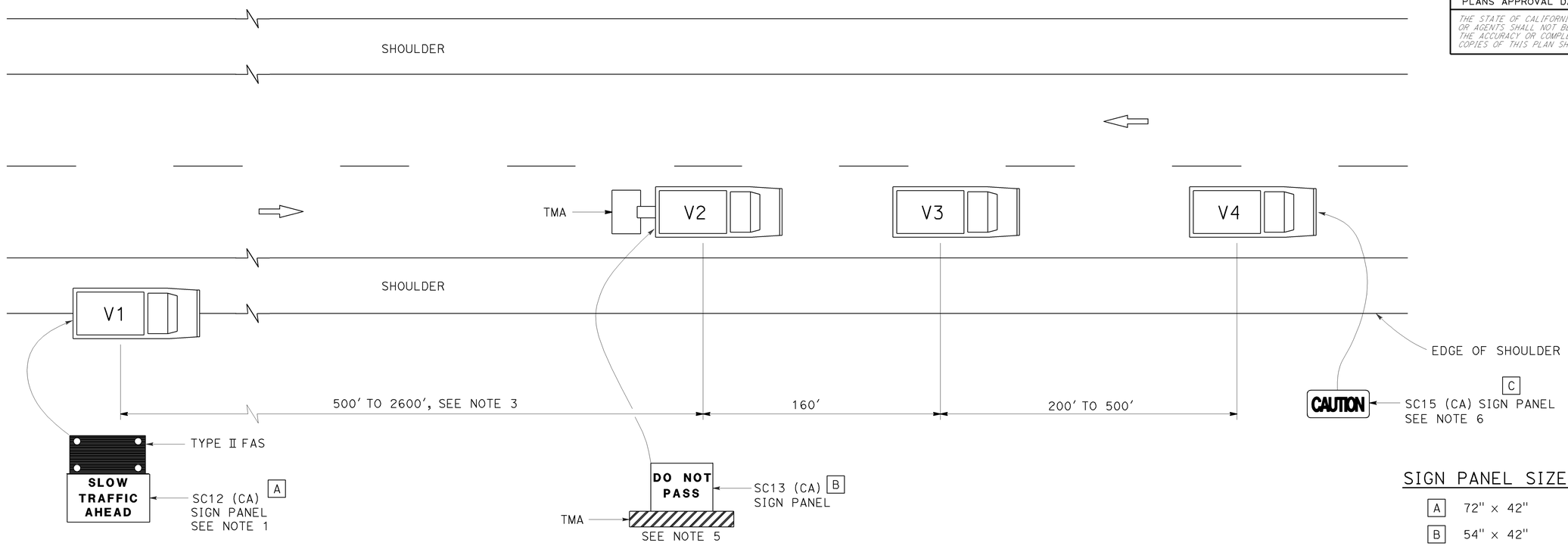
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	15	18

REGISTERED CIVIL ENGINEER 12-7-12 DATE

3-11-13
PLANS APPROVAL DATE

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

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



SIGN PANEL SIZE (Min)

A	72" × 42"
B	54" × 42"
C	54" × 24"

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

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. 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 be Type III, IV VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Gross Vehicle Weight of shadow vehicle shall be a minimum of 20,000 pounds and 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. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

TCS-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	16	18

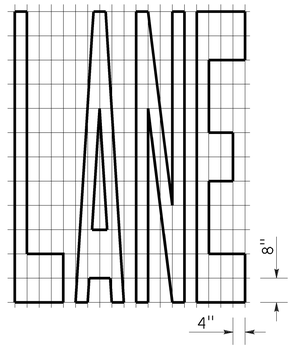
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

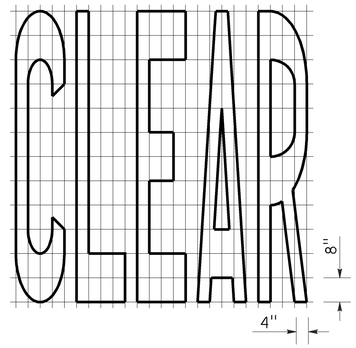
REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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

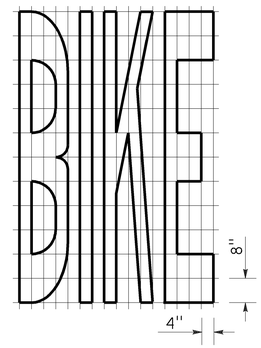
TO ACCOMPANY PLANS DATED 3-11-13



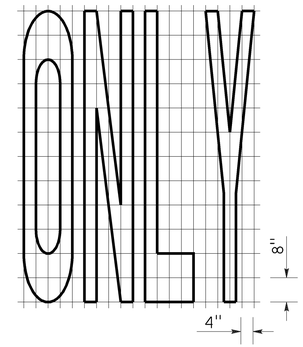
A=24 ft²



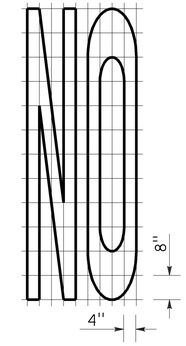
A=27 ft²



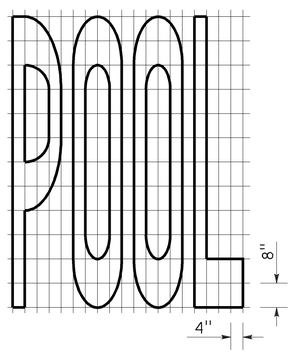
A=21 ft²



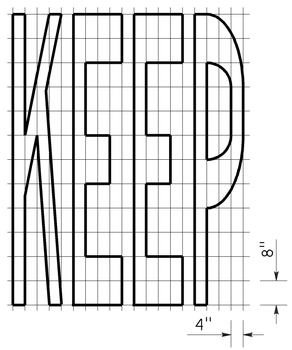
A=22 ft²



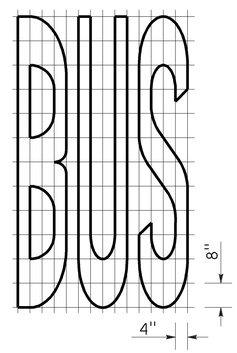
A=14 ft²



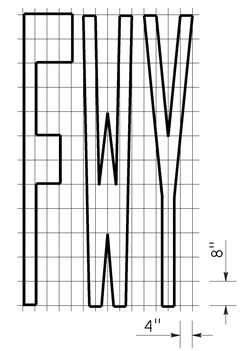
A=23 ft²



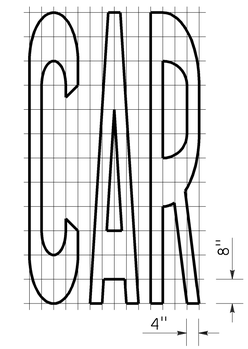
A=24 ft²



A=20 ft²

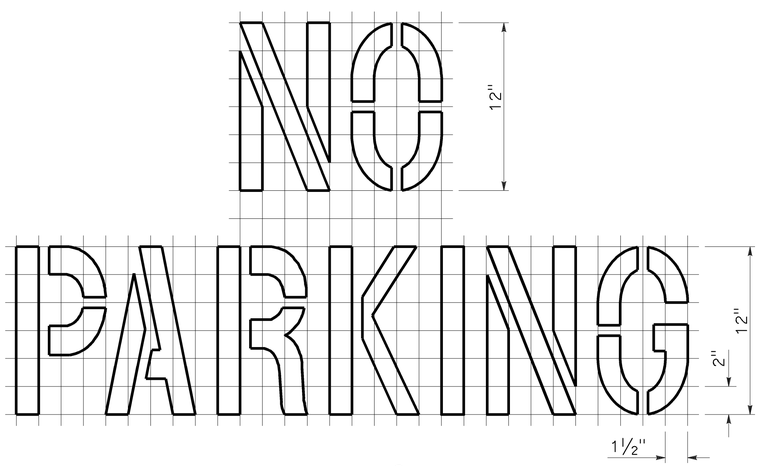


A=16 ft²



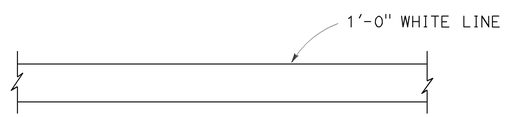
A=17 ft²

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

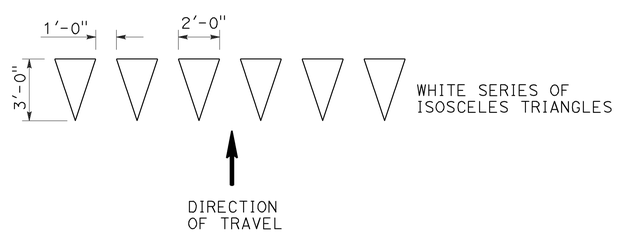


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES

NO SCALE

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

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	174	0.0/2.8	17	18

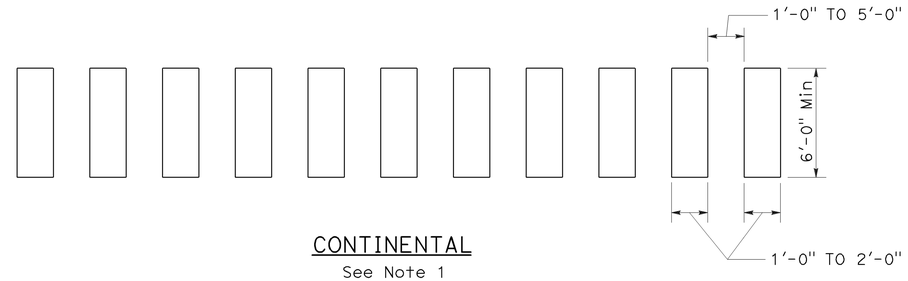
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

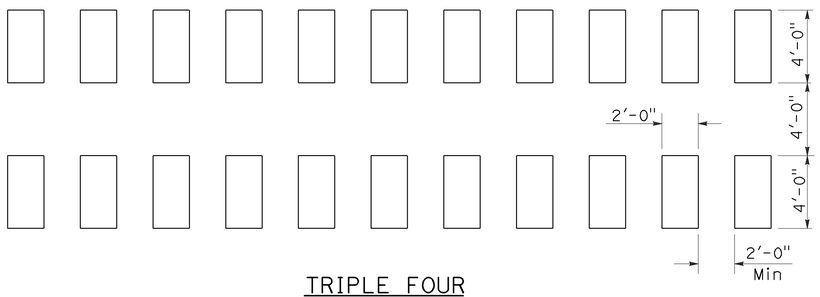
REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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

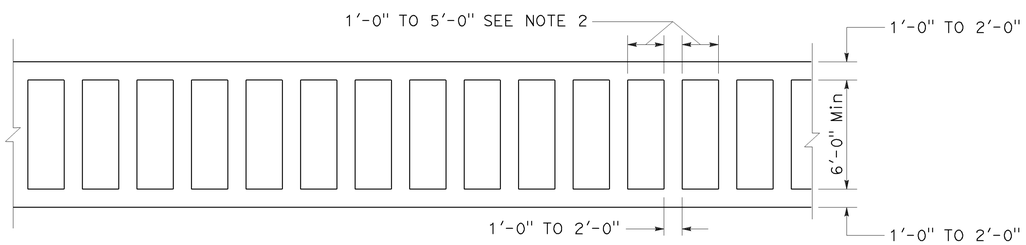
TO ACCOMPANY PLANS DATED 3-11-13



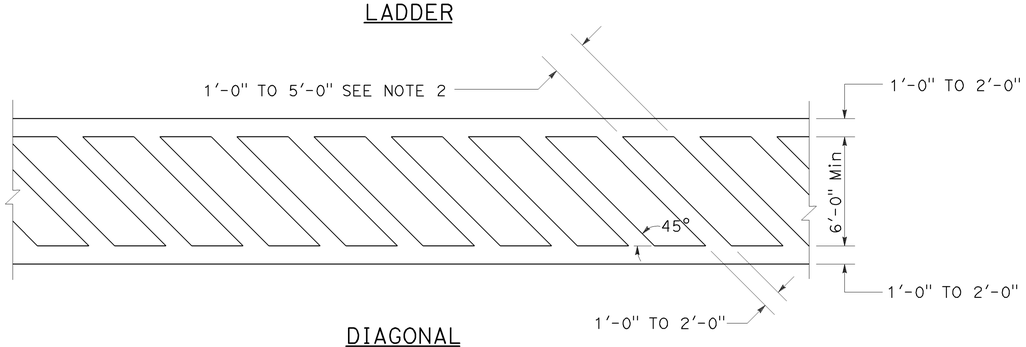
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER

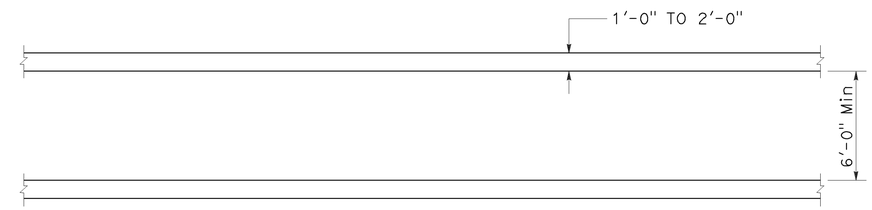


DIAGONAL

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.



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS CROSSWALKS

NO SCALE

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

REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

6-28-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	174	0.0/2.8	18	18

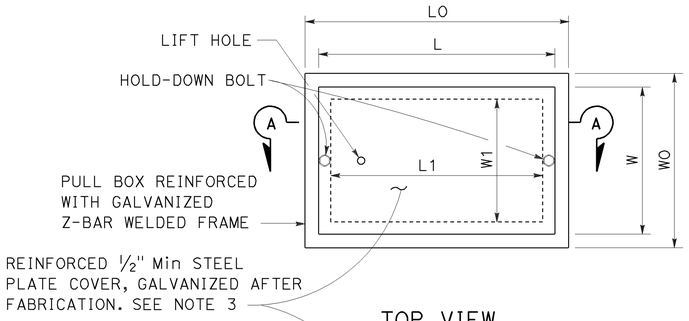
REGISTERED ELECTRICAL ENGINEER

January 20, 2012
PLANS APPROVAL DATE

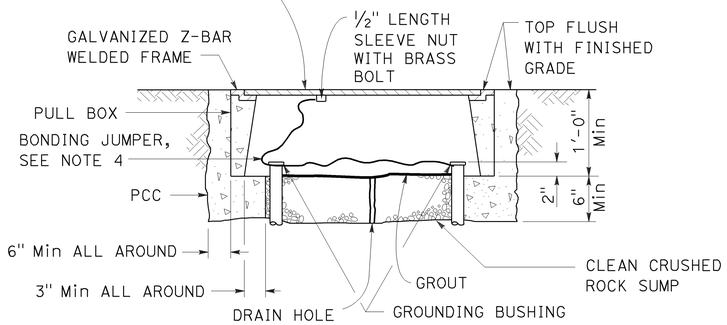
REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
No. E14512
Exp. 6-30-12
ELECTRICAL
STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 3-11-13



TOP VIEW



SECTION A-A

No. 3½(T), No. 5(T) AND No. 6(T) TRAFFIC PULL BOX

NOTES ON PULL BOXES:

1. Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
2. Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
3. Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less; "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service.
   - A) No. 3½(T) pull box.
     - 1) "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
     - 2) "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
   - B) No. 5(T) or 6(T) pull box.
     - 1) "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
     - 2) "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
     - 3) "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
     - 4) "IRRIGATION" - Circuits to irrigation controller 120 V or more.
     - 5) "RAMP METER" - Ramp meter circuits.
     - 6) "COUNT STATION" - Count or speed monitor circuits.
     - 7) "COMMUNICATION" - Communication circuits.
     - 8) "TOS COMMUNICATIONS" - TOS communications line.
     - 9) "TOS POWER" - TOS power.
     - 10) "TDC POWER" - Telephone demarcation cabinet power.
     - 11) "CCTV" - Closed circuit television circuits.
     - 12) "TMS" - Traffic monitoring station circuits.
     - 13) "CMS" - Changeable message sign circuits.
     - 14) "HAR" - Highway advisory radio circuits.
4. Bonding jumper for metal covers shall be 3' long, minimum.
5. The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions except the length and width dimensions shall be ⅛" greater.
6. Covers and boxes must be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces must be flush within ⅛".

DIMENSION TABLE

PULL BOX	BOX						COVER				
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	WO	LO	L1	W1	L **	W **	R	EDGE THICKNESS	EDGE TAPER
No. 3½(T)	1½"	1'-0"	1'-5"± 1"	1'-8⅞"±	1'-2½"±	10⅝"± 1"	1'-8"±	1'-1¾"±	0"	½"	NONE
No. 5(T)	1¾"	1'-0"	1'-11½"± 1"	2'-5½"±	1'-7"±	1'-1"± 1"	2'-3"±	1'-4"±	0"	½"	NONE
No. 6(T)	2"	1'-0"	2'-6"± 1"	2'-11½"±	1'-11½"±	1'-5"± 1"	2'-9"±	1'-8"±	0"	½"	NONE

* EXCLUDING CONDUIT WEB ** TOP DIMENSION

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (TRAFFIC RATED PULL BOX)

NO SCALE

RSP ES-8B DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8B

2010 REVISED STANDARD PLAN RSP ES-8B