INDEX OF PLANS

SHEET No.	DESCRIPTION
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2	TYPICAL CROSS SECTIONS
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14	CONSTRUCTION AREA SIGNS
15-17	PAVEMENT DELINEATION PLANS AND QUANTITIES
18-19	SIGN PLANS AND SIGN QUANTITIES
20	SUMMARY OF QUANTITIES
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

ACNH-P020(169)E

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

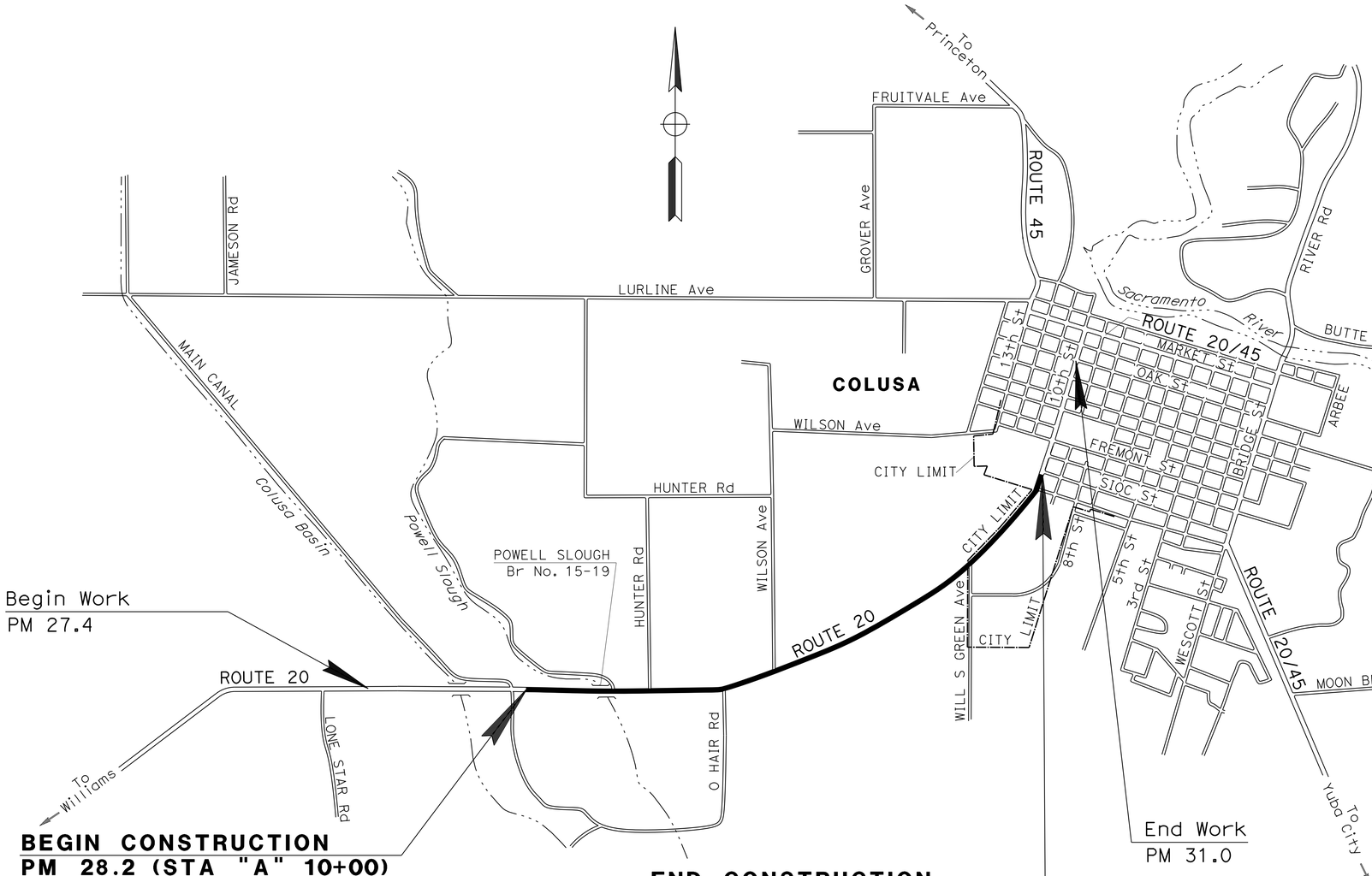
STATE HIGHWAY

IN COLUSA COUNTY
NEAR COLUSA
FROM 0.3 MILE WEST OF POWELL SLOUGH BRIDGE
TO SIOC STREET

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	1	26

LOCATION MAP



NO SCALE

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

Russell F Petty 5-3-13
PROJECT ENGINEER — DATE
REGISTERED CIVIL ENGINEER

June 17, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — RUSSELL F. PETTY — No. 72008 — Exp. 6/30/14 — 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.

CONTRACT No.	03-2F9704
PROJECT ID	0312000025

LAST REVISION 01-07-13
DATE PLOTTED => 13-JUN-2013
TIME PLOTTED => 14:29

PROJECT MANAGER: RODNEY MURPHY
DESIGN ENGINEER: RUSSELL F. PETTY

BORDER LAST REVISED 9/30/2012 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s125660 | DGN FILE => 0312000025ab001.dgn | UNIT 0310 | PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	2	26

Russell F. Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUSSELL F. PETTY
No. 72008
Exp. 06-30-14
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:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. THE LIMITS OF COLD PLANE, CRACK TREATMENT AND OVERLAY ARE EP TO EP EXCEPT AT CROSS STREETS AND DRIVEWAYS AS SHOWN ON LAYOUT SHEETS.
3. THE LIMITS OF ROADWAY EXCAVATION (FULL STRUCTURAL SECTION DIGOUTS) ARE EP TO EP.
4. BRIDGE DECKS ARE ONLY TO BE COLD PLANED 0.10' AND OVERLAYED WITH 0.10' OF RHMA-O.
5. SAFETY EDGES ARE TO BE CONSTRUCTED OF RHMA-SP-G. STATION LIMITS FOR SAFETY EDGES ON SHEET Q-1.
6. CRACK TREATMENT SHALL BE PERFORMED AFTER THE PAVEMENT SURFACE HAS BEEN COLD PLANED.
7. THE ALIGNMENT AND STATIONING FOR THIS PROJECT IS FOR LINEAR MEASUREMENT ONLY. NO CURVE DATA OR BEARINGS ARE ASSOCIATED WITH IT. STATIONING WILL BE USED IN LIEU OF POST MILES FOR CALL OUTS.

ABBREVIATIONS:

RHMA-O	RUBBERIZED HOT MIX ASPHALT, (OPEN GRADED)
RHMA-SP-G	RUBBERIZED HOT MIX ASPHALT, SUPERPAVE (GAP GRADED)
(HMA-SP) TYPE A	HOT MIX ASPHALT, SUPERPAVE (TYPE A)

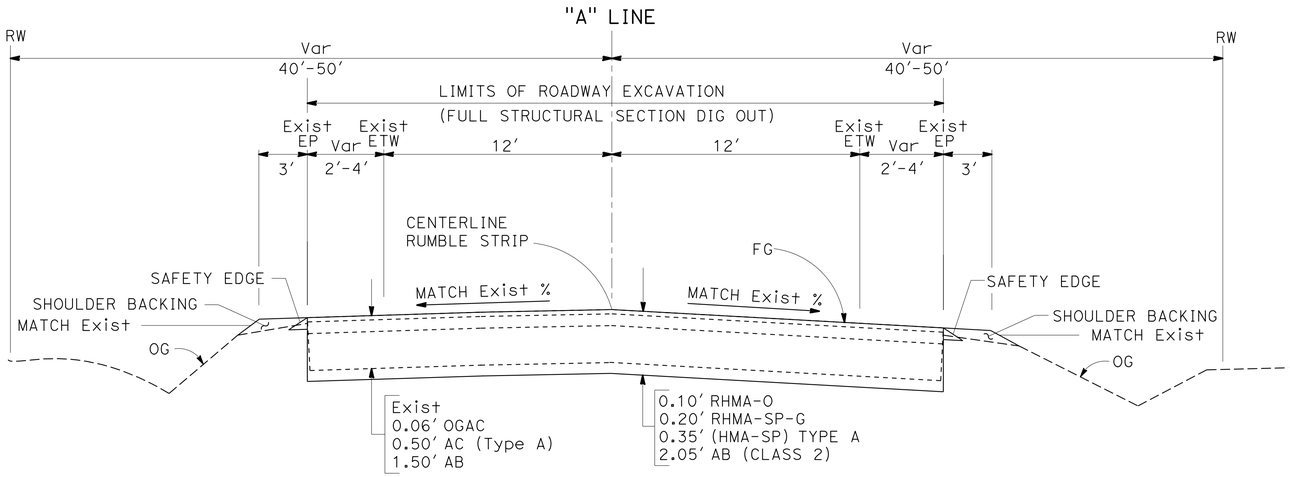
(LOCATION: PM 28.2/30.6)

DESIGN DESIGNATION

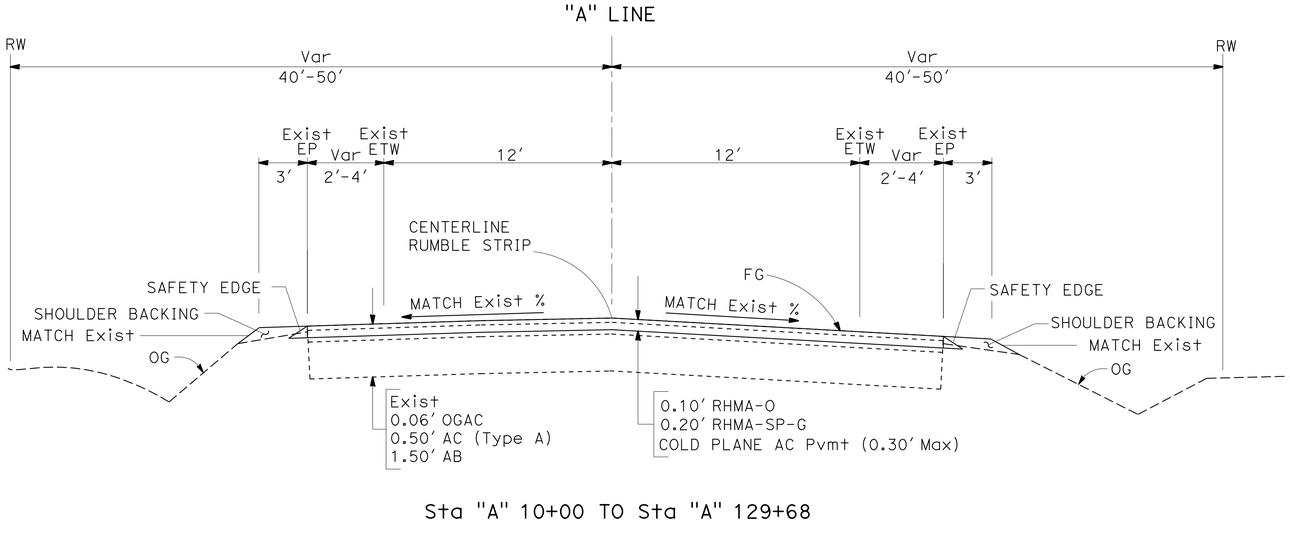
2011 ADT = 8,200 D=55%
2021 ADT = 10,200
2031 ADT = 11,400 T=9%
DHV = 850
10 YEAR TI=10.0
20 YEAR TI=10.5

PAVEMENT CLIMATE REGION

INLAND VALLEY



Sta "A" 24+68 TO Sta "A" 27+98 (EXCEPT AT POWELL SLOUGH BRIDGE)
Sta "A" 47+00 TO Sta "A" 50+80



Sta "A" 10+00 TO Sta "A" 129+68

ROUTE 20

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY | DATE REVISED
RUSSELL F. PETTY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: CHARLES W. LAUGHLIN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING

LAST REVISION 00-00-00 | DATE PLOTTED => 13-JUN-2013 | TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010 | USERNAME => s125660 | DGN FILE => 0312000025ca001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0310 | PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	3	26

Russell F. Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUSSELL F. PETTY
No. 72008
Exp. 06-30-14
CIVIL
STATE OF CALIFORNIA

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NOTES:

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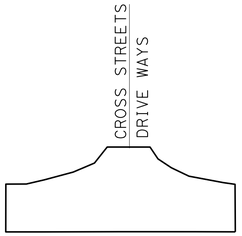
LEGEND:

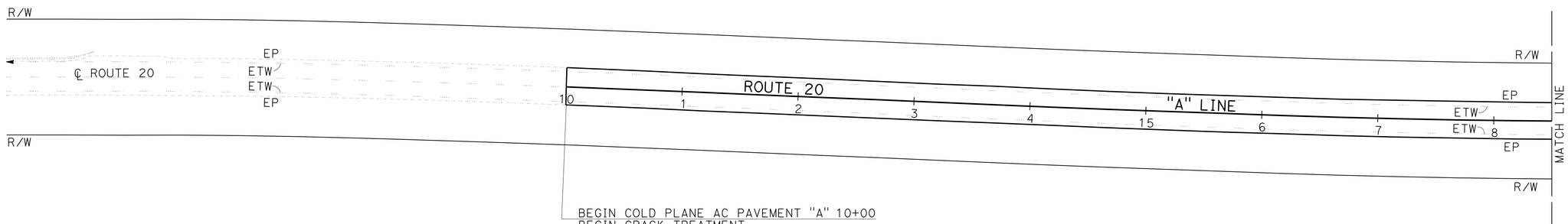


COLD PLANE AND OVERLAY LIMITS.

ROADWAY EXCAVATION LIMITS
(FULL STRUCTURAL SECTION DIGOUT)

UTILITY OWNER:

ELECTRIC - PACIFIC GAS AND ELECTRIC (PG&E)



BEGIN COLD PLANE AC PAVEMENT "A" 10+00
BEGIN CRACK TREATMENT
BEGIN TACK COAT
BEGIN RHMA-SP-G
BEGIN RHMA-O
BEGIN SAFETY EDGE
BEGIN SHOULDER BACKING
BEGIN CENTERLINE RUMBLE STRIP
MATCH EXISTING

COLUSA NATIONAL WILDLIFE REFUGE

LAYOUT

SCALE: 1" = 50'

L-1

REVISED BY | DATE REVISED
RUSSELL F. PETTY | CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: CHARLES W. LAUGHLIN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING

LAST REVISION | DATE PLOTTED => 13-JUN-2013 | 00-00-00 | TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010 | USERNAME => s125660 | DGN FILE => 0312000025ea001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0310 | PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	4	26

Russell F. Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUSSELL F. PETTY
No. 72008
Exp. 06-30-14
CIVIL
STATE OF CALIFORNIA

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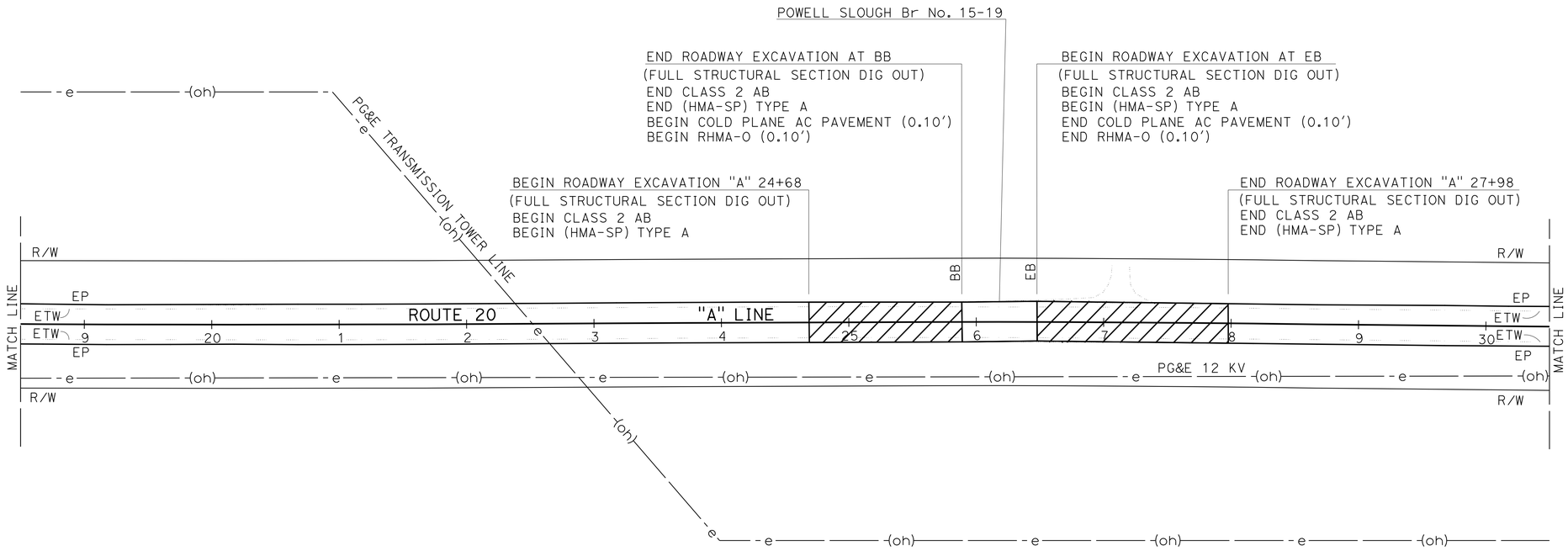

COLUSA NATIONAL WILDLIFE REFUGE

LAYOUT

SCALE: 1" = 50'

L-2

CALCULATED-DESIGNED BY: RUSSELL F. PETTY
CHECKED BY:
REVISED BY:
DATE REVISED:
FUNCTIONAL SUPERVISOR: CHARLES W. LAUGHLIN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING

LAST REVISION: DATE PLOTTED => 13-JUN-2013
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BORDER LAST REVISED 7/2/2010

USERNAME => s125660
DGN FILE => 0312000025ea002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0310

PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	5	26

Russell F Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUSSELL F. PETTY
No. 72008
Exp. 06-30-14
CIVIL
STATE OF CALIFORNIA

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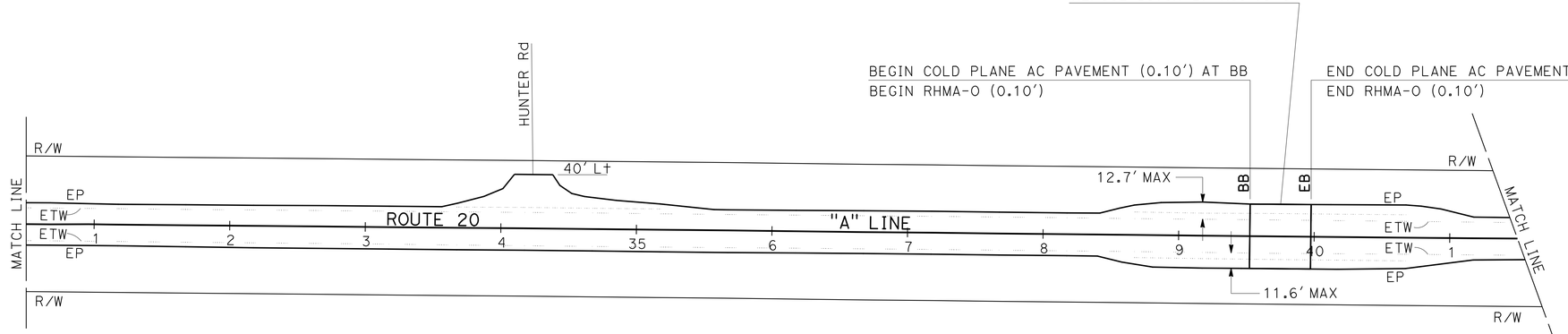

COLUSA NATIONAL WILDLIFE REFUGE

LAYOUT

SCALE: 1" = 50'

L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING
FUNCTIONAL SUPERVISOR: CHARLES W. LAUGHLIN
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY | DATE REVISED
RUSSELL F. PETTY

LAST REVISION DATE PLOTTED => 13-JUN-2013
00-00-00 TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0312000025ea003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0310
PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	6	26

Russell F Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUSSELL F. PETTY
No. 72008
Exp. 06-30-14
CIVIL
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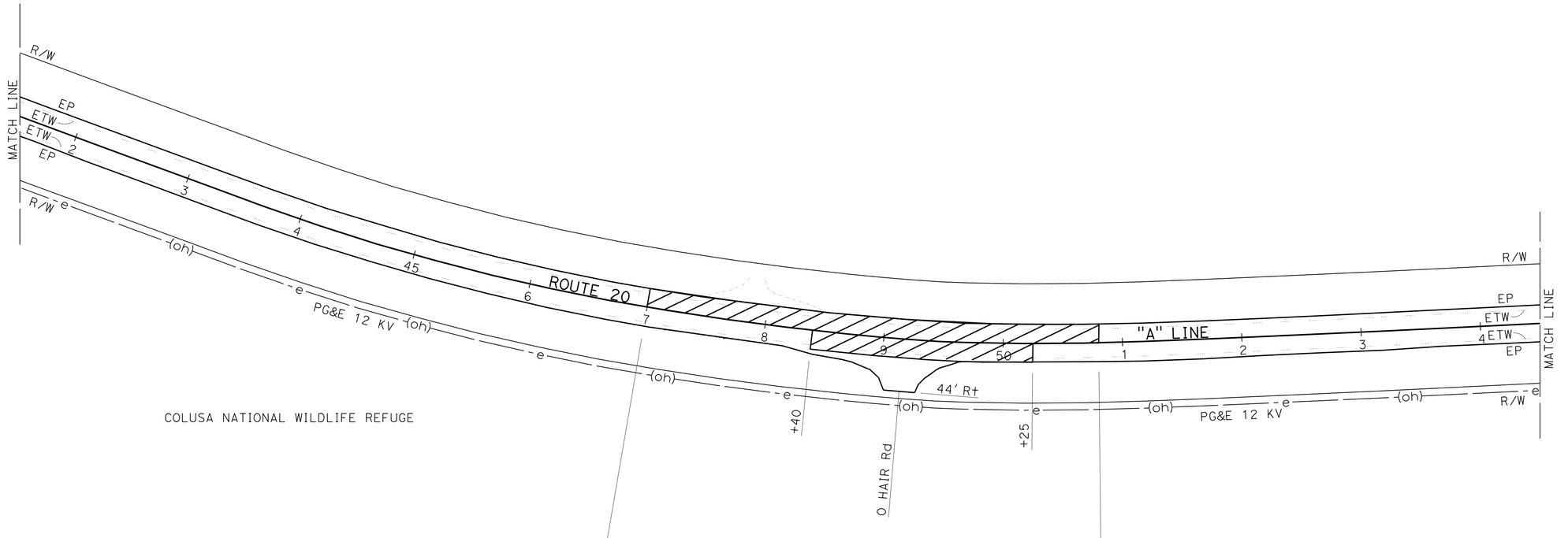

BEGIN ROADWAY EXCAVATION "A" 47+00
(FULL STRUCTURAL SECTION DIG OUT)
BEGIN CLASS 2 AB
BEGIN (HMA-SP) TYPE A

END ROADWAY EXCAVATION "A" 50+80
(FULL STRUCTURAL SECTION DIG OUT)
END CLASS 2 AB
END (HMA-SP) TYPE A

LAYOUT

SCALE: 1" = 50'

L-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING
FUNCTIONAL SUPERVISOR: CHARLES W. LAUGHLIN
CALCULATED-DESIGNED BY
CHECKED BY: RUSSELL F. PETTY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 13-JUN-2013
TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0312000025ea004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0310
PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	7	26

Russell F. Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUSSELL F. PETTY
No. 72008
Exp. 06-30-14
CIVIL
STATE OF CALIFORNIA

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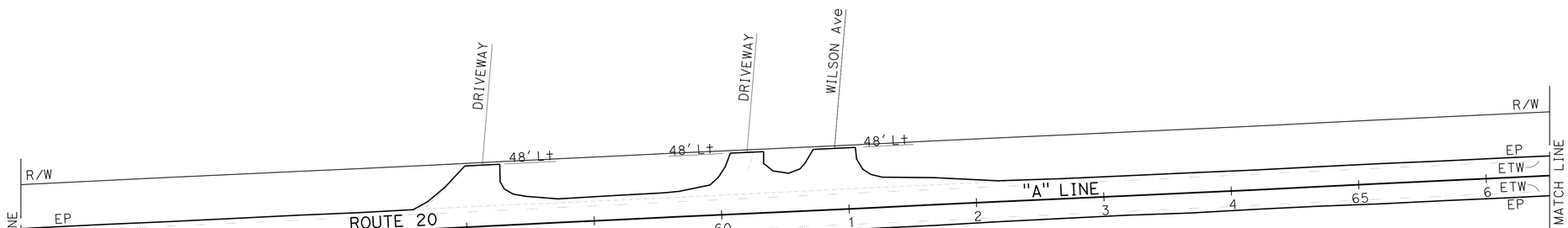

LAYOUT

SCALE: 1" = 50'

L-5

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY: RUSSELL F. PETTY

CHECKED BY

FUNCTIONAL SUPERVISOR: CHARLES W. LAUGHLIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING

LAST REVISION | DATE PLOTTED => 13-JUN-2013
00-00-00 | TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010

USERNAME => s125660
DGN FILE => 0312000025ea005.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0310

PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	8	26

Russell F. Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUSSELL F. PETTY
No. 72008
Exp. 06-30-14
CIVIL
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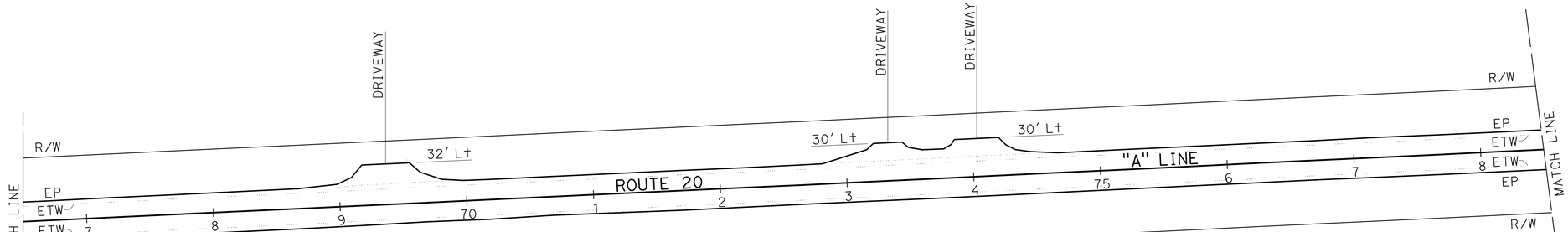

LAYOUT
SCALE: 1" = 50'
L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING
FUNCTIONAL SUPERVISOR: CHARLES W. LAUGHLIN
CALCULATED-DESIGNED BY: RUSSELL F. PETTY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 13-JUN-2013
00-00-00 TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0312000025ea006.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0310
PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	9	26

Russell F Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUSSELL F. PETTY
No. 72008
Exp. 06-30-14
CIVIL
STATE OF CALIFORNIA

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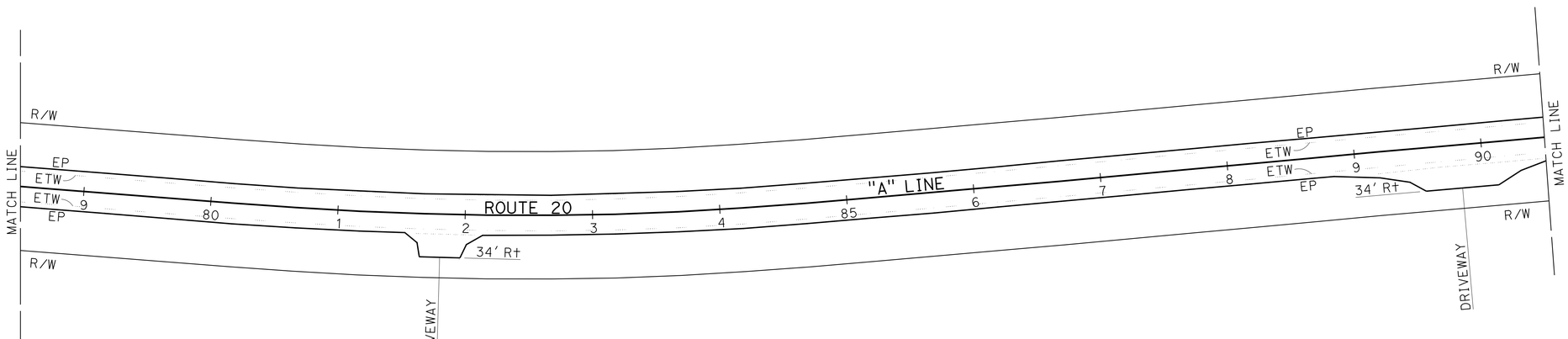

LAYOUT
SCALE: 1" = 50'

L-7

REVISED BY | DATE REVISED
RUSSELL F. PETTY | CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
CHARLES W. LAUGHLIN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING

LAST REVISION | DATE PLOTTED => 13-JUN-2013
00-00-00 | TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0312000025ea007.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0310
PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	10	26

Russell F Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
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RUSSELL F. PETTY
No. 72008
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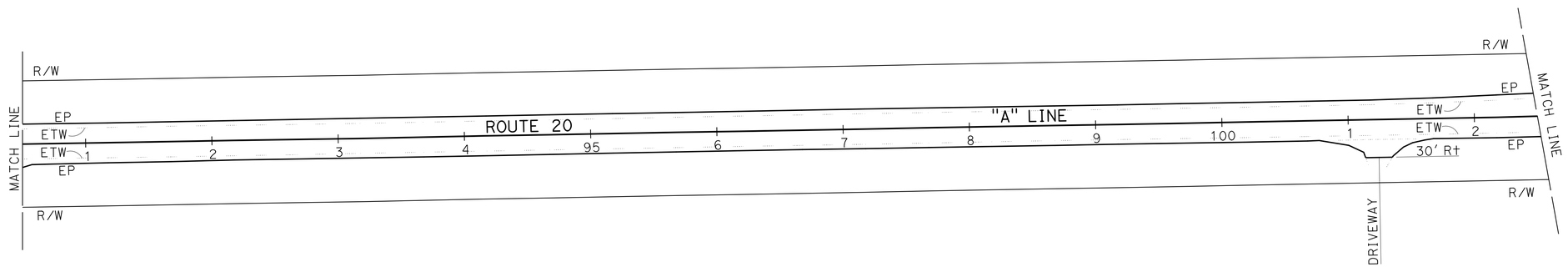

LAYOUT
SCALE: 1" = 50'

L-8

REVISED BY | DATE REVISED
RUSSELL F. PETTY
CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
CHARLES W. LAUGHLIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING

LAST REVISION: DATE PLOTTED => 13-JUN-2013
00-00-00 TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010

USERNAME => s125660
DGN FILE => 0312000025ea008.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0310

PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	11	26

Russell F Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
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RUSSELL F. PETTY
No. 72008
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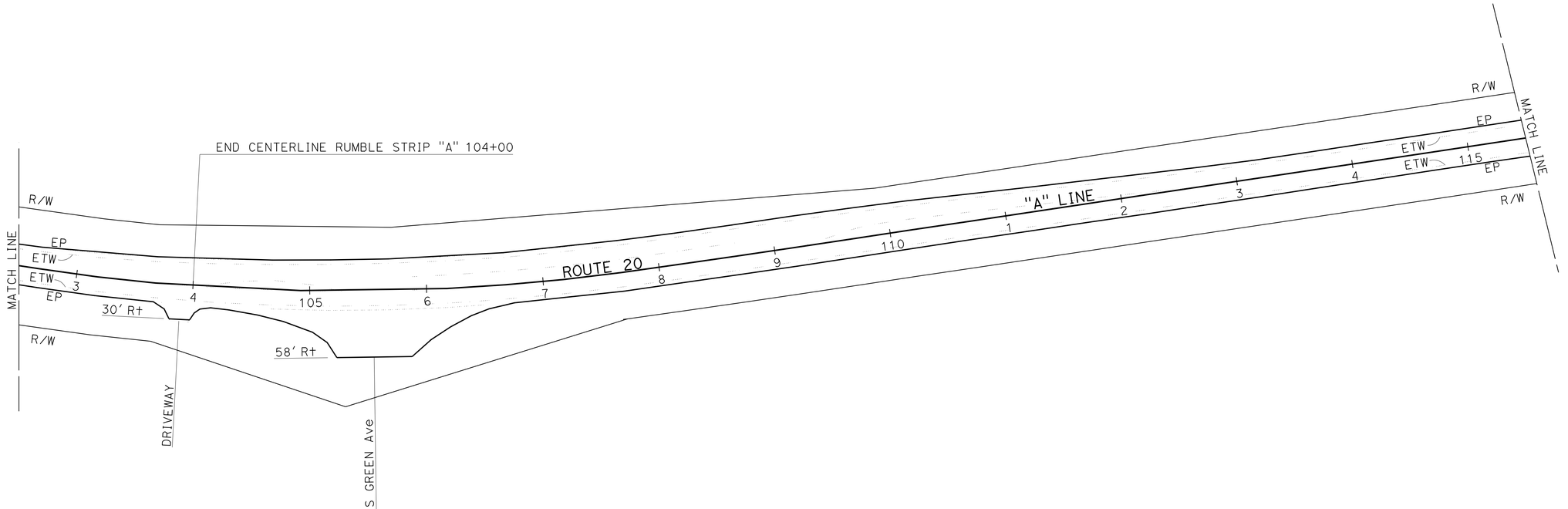

LAYOUT

SCALE: 1" = 50'

L-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING

FUNCTIONAL SUPERVISOR: CHARLES W. LAUGHLIN

CALCULATED-DESIGNED BY

CHECKED BY

RUSSELL F. PETTY

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 13-JUN-2013
00-00-00 | TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010

USERNAME => s125660
DGN FILE => 0312000025ea009.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0310

PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Russell F. Petty 5-3-13
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6-17-13
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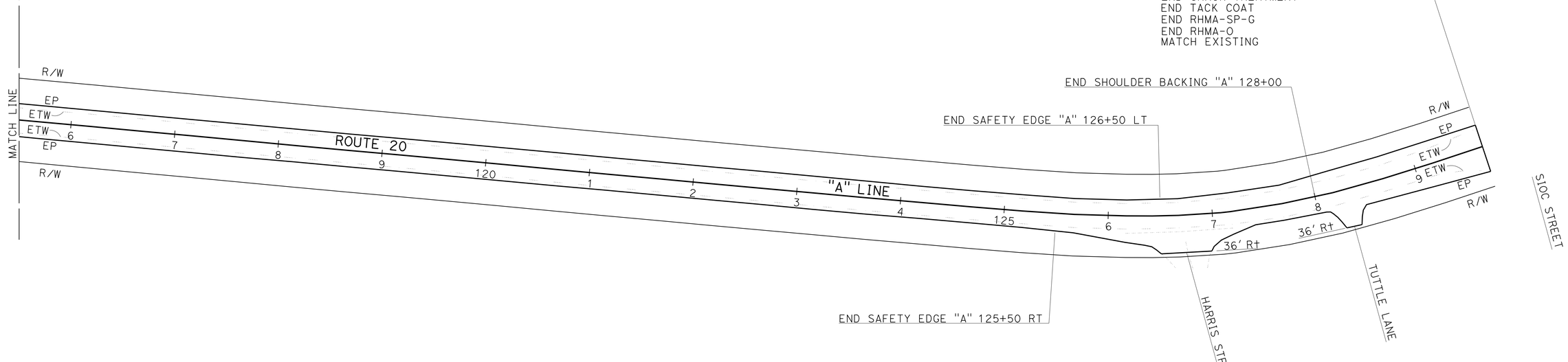
CIVIL
STATE OF CALIFORNIA

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. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE ONLY BEEN PLOTTED ON PORTIONS OF THESE PLANS, WHERE UNDERGROUND WORK IS SHOWN.



LAYOUT

SCALE: 1" = 50'

L-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING
FUNCTIONAL SUPERVISOR: CHARLES W. LAUGHLIN
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY: RUSSELL F. PETTY
DATE REVISED

LAST REVISION DATE PLOTTED => 13-JUN-2013
00-00-00 TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0312000025ea010.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0310
PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	13	26

Russell F. Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUSSELL F. PETTY
No. 72008
Exp. 06-30-14
CIVIL
STATE OF CALIFORNIA

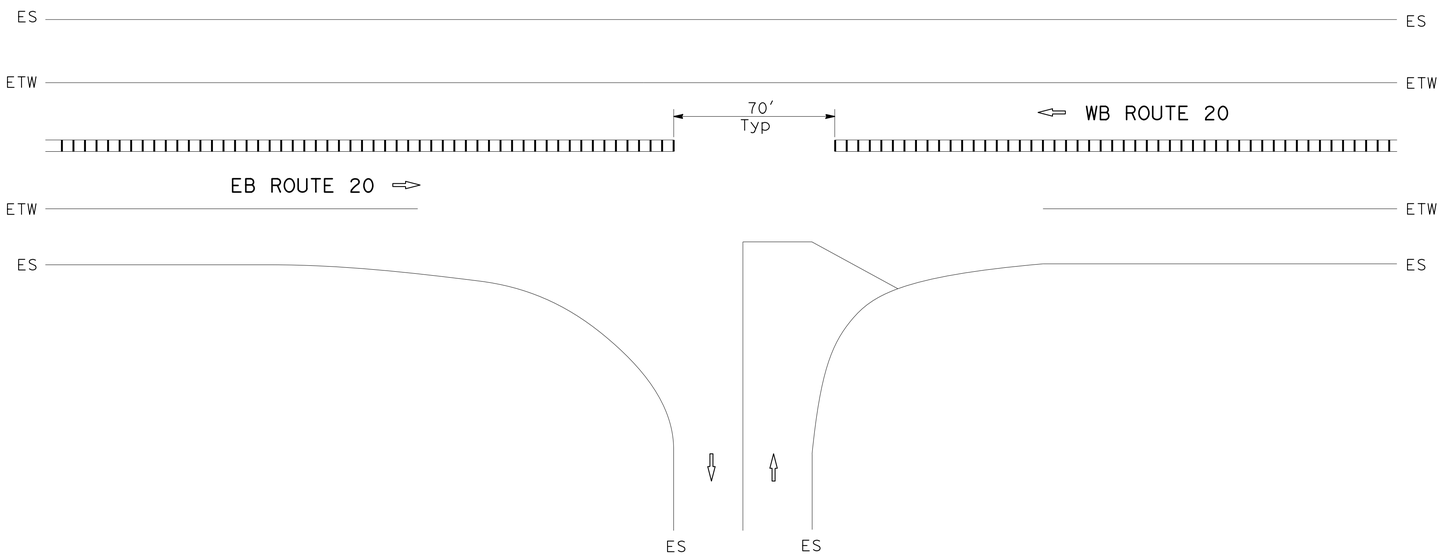
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. CENTERLINE RUMBLE STRIP MUST BE CONSTRUCTED PRIOR TO INSTALLING FINAL TRAFFIC STRIPE.
2. SEE LAYOUT SHEETS FOR RUMBLE STRIP BEGIN AND END LOCATIONS.
3. DO NOT CONSTRUCT RUMBLE STRIPS ON STRUCTURES.
4. FOR ADDITIONAL RUMBLE STRIP INFORMATION, SEE PAVEMENT DELINEATION DETAILS SHEET.

LEGEND:

▮▮▮▮▮▮▮▮ RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)



RUMBLE STRIPS AT INTERSECTIONS

(TYPICAL)

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY | DATE REVISED
RUSSELL F. PETTY | CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
CHARLES W. LAUGHLIN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING

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00-00-00 | TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 03120000025ga001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0310
PROJECT NUMBER & PHASE 03120000251

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1	C23	48" X 48"	ROAD WORK AHEAD	1 - 6" X 6"	8
B		C40(MOD)	48" X 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" X 6"	2
C	G20-2	C14	36" X 18"	END ROAD WORK	1 - 4" X 4"	2

NOTES:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA <CA> SIGN CODES.

SIGN DETAILS

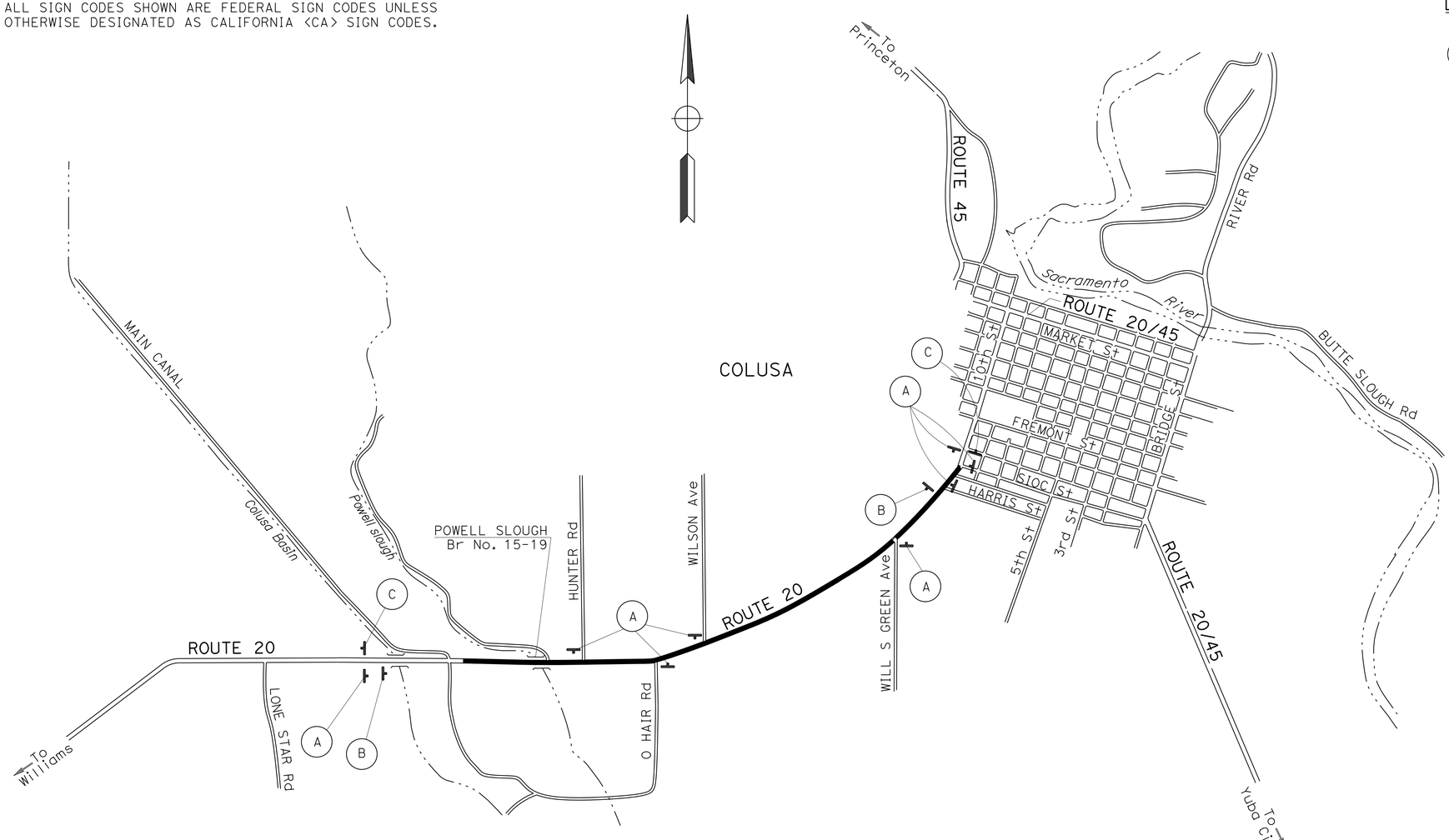
(B) C40(Mod)<CA>

TRAFFIC FINES DOUBLED IN WORK ZONES

4" D SERIES LETTERS

48"X36"

RETROREFLECTIVE WHITE BACKGROUND WITH BLACK LEGEND AND BORDER.



LEGEND:

(X) CONSTRUCTION AREA SIGN LETTER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	14	26

Russell F. Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — RUSSELL F. PETTY No. 72008 Exp. 06-30-14 CIVIL — STATE OF CALIFORNIA

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REVISED BY | DATE REVISED

RUSSELL F. PETTY

CALCULATED-DESIGNED BY

CHECKED BY

FUNCTIONAL SUPERVISOR: CHARLES W. LAUGHLIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DIVISION OF ENGINEERING

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION | DATE PLOTTED => 13-JUN-2013 | 00-00-00 | TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010

USERNAME => s125660
DGN FILE => 03120000025la001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0310

PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	15	26

John R. Keber 5-9-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
John R. Keber
No. 40048
Exp. 12-31-13
CIVIL
STATE OF CALIFORNIA

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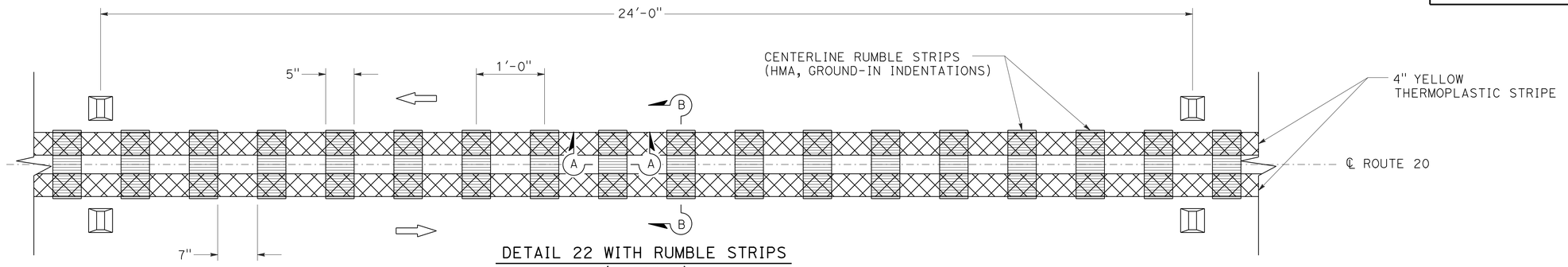
NOTES:

1. CENTERLINE RUMBLE STRIP SHALL BE CONSTRUCTED PRIOR TO INSTALLING FINAL TRAFFIC STRIPES.
2. FOR STRIPING DETAIL INFORMATION NOT SHOWN, SEE STANDARD PLANS.
3. FOR ADDITIONAL RUMBLE STRIP INFORMATION NOT SHOWN, SEE LAYOUTS AND CONSTRUCTION DETAILS.
4. THIS PLAN ACCURATE FOR CENTERLINE RUMBLE STRIP AND PAVEMENT DELINEATION DETAILS ONLY.

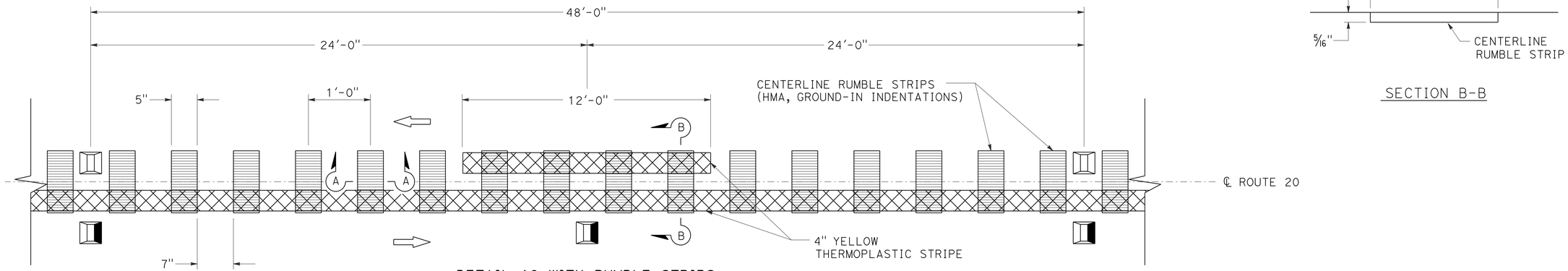
LEGEND

TYPE D TWO-WAY YELLOW PAVEMENT MARKER (RETROREFLECTIVE)

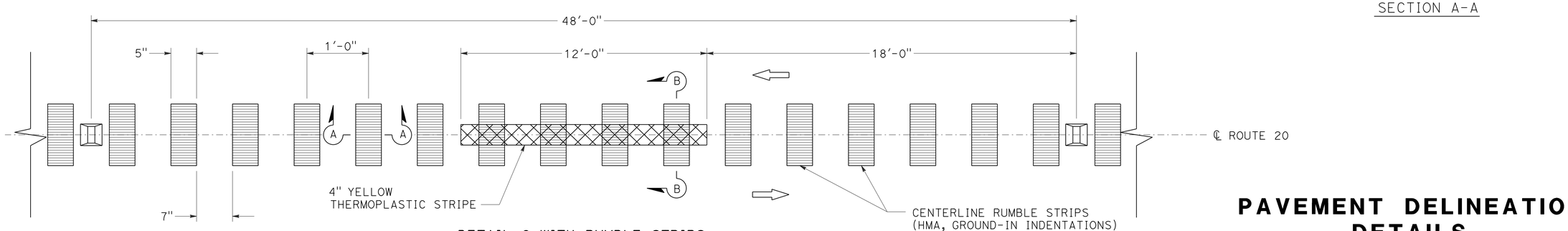
TYPE H ONE-WAY YELLOW PAVEMENT MARKER (RETROREFLECTIVE)



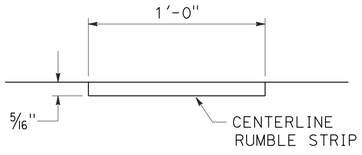
DETAIL 22 WITH RUMBLE STRIPS
(TYPICAL)



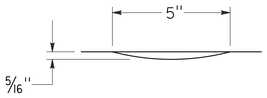
DETAIL 19 WITH RUMBLE STRIPS
(TYPICAL)



DETAIL 6 WITH RUMBLE STRIPS
(TYPICAL)



SECTION B-B



SECTION A-A

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

REVISED BY | DATE REVISED

JACK KEMMERLY | JOHN KEBER

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: SERGIO ACEVES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

LAST REVISION 4-2-13
DATE PLOTTED => 13-JUN-2013
TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010

USERNAME => s125660
DGN FILE => 0312000025nb001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0390

PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	16	26

John R. Keber 5-9-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
John R. Keber
No. 40048
Exp. 12-31-13
CIVIL
STATE OF CALIFORNIA

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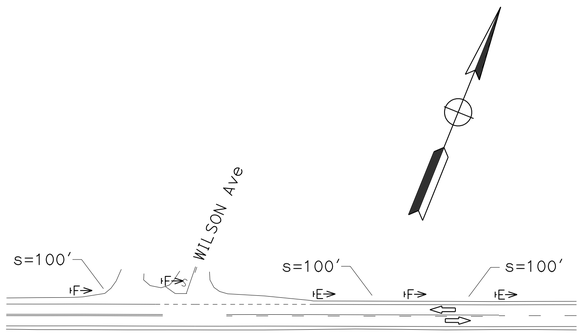
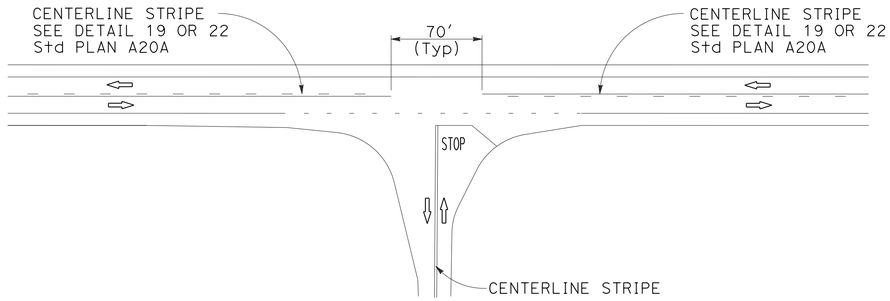
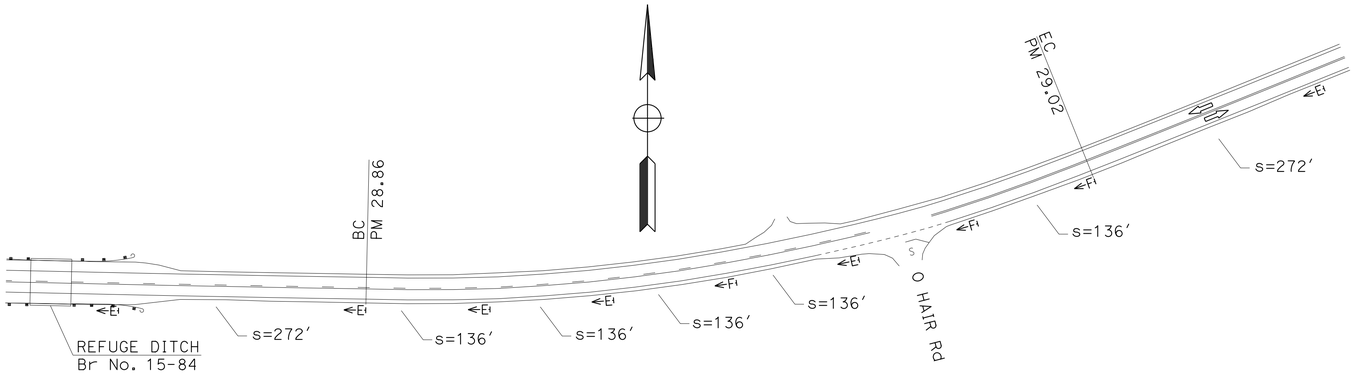


DELINEATOR PLACEMENT
WILSON AVENUE

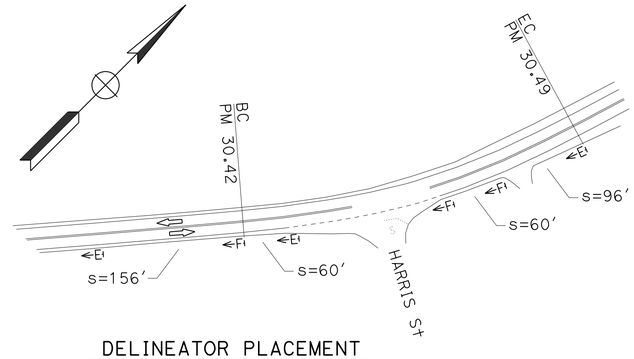


TYPICAL CENTERLINE GAP AT LOCAL ROAD INTERSECTION
HUNTER ROAD
O'HAIR ROAD
WILSON AVENUE
HARRIS STREET

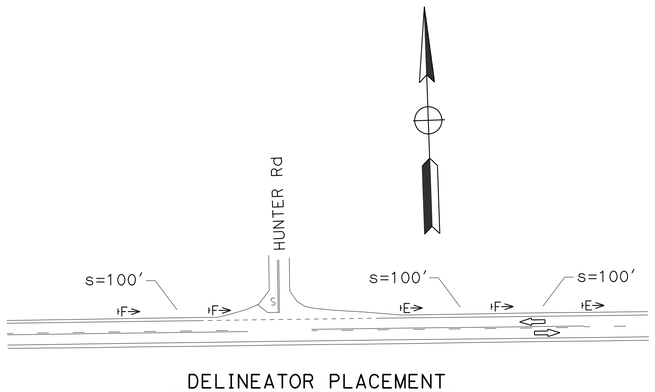
LEGEND
E DELINEATOR (SPECIAL) (TYPE E)
F DELINEATOR (SPECIAL) (TYPE F)



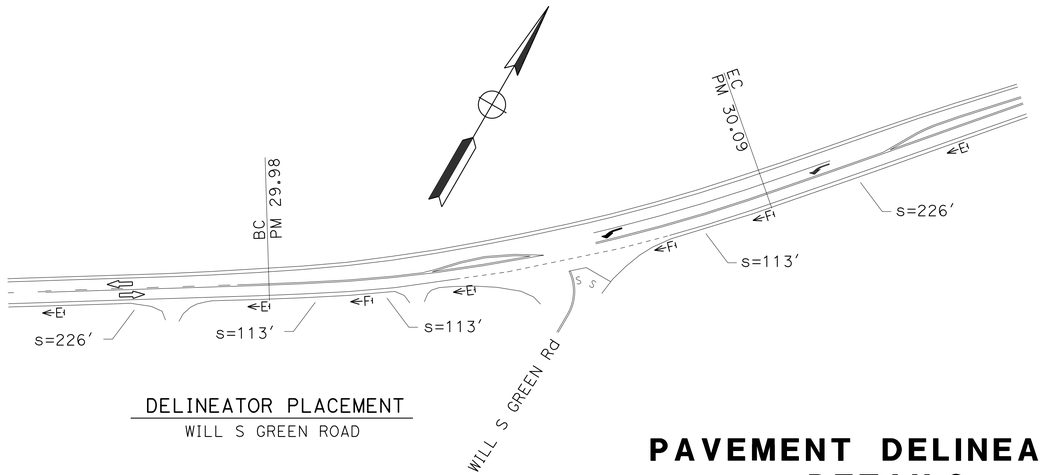
DELINEATOR PLACEMENT
O'HAIR ROAD



DELINEATOR PLACEMENT
HARRIS STREET



DELINEATOR PLACEMENT
HUNTER ROAD



DELINEATOR PLACEMENT
WILL S GREEN ROAD

PAVEMENT DELINEATION DETAILS
NO SCALE

PDD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
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FUNCTIONAL SUPERVISOR: SERGIO ACEVES
CALCULATED-DESIGNED BY:
CHECKED BY:
JACK KEMMERLY / JOHN KEBER
REVISED BY / DATE REVISED

LAST REVISION
DATE PLOTTED => 13-JUN-2013
TIME PLOTTED => 14:29
4-2-13

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0312000025nb002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0390
PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	17	26

John R. Keber 5-9-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
John R. Keber
No. 40048
Exp. 12-31-13
CIVIL
STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

HIGHWAY POST LIMITS/LOCATION	4" THERMOPLASTIC TRAFFIC STRIPE (EWNV)					8" THERMOPLASTIC TRAFFIC STRIPE (EWNV)	4" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 12-3)	4" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 36-12)			PAVEMENT MARKER (RETROREFLECTIVE)			THERMOPLASTIC PAVEMENT MARKING (EWNV)			DELINEATOR (SPECIAL)		HIGHWAY POST MARKER
	DETAIL 18	DETAIL 19	DETAIL 21	DETAIL 22	DETAIL 27B	DETAIL 38	DETAIL 27C	DETAIL 6	DETAIL 18	DETAIL 19	TYPE D	TYPE G	TYPE H	TYPE III ARROW	STOP	LIMIT LINE	TYPE E	TYPE F	
	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	SQFT	SQFT	SQFT	EA	EA	EA
28.23 TO 28.69		300			4,759		89	2,089		300	50		12						
28.50 (FWBT)																			1
HUNTER ROAD			40												22	30	2	3	
28.69 TO 28.97		600			2,780		204	822		600	30		26						
O'HAIR ROAD															22	30	6	3	
28.97 TO 29.19				2,194	2,147		187				92								
29.00 (FEBT)																			1
WILSON AVENUE	25								25						22	30	2	3	
29.19 TO 30.04		500		916	8,692		258	3,567		500	122		20						
29.50 (FWBT)																			1
30.00 (FEBT)																			1
WILL S GREEN ROAD			70												44	50	4	3	
30.04 TO 30.44				4,786	4,003	274	231				200	12		84					
HARRIS STREET															22	30	3	3	
30.44 TO 30.50				516	522		64				22								
SUBTOTAL	25	1,400	110	8,412	22,903			6,478	25	1,400	516	12	58	84	132	170	17	15	
TOTAL	32,850					274	1,033	7,903			586			386			32		4

NOTES:

1. EWNV = ENHANCED WET NIGHT VISIBILITY.
2. THE DELINEATORS (SPECIAL) SHALL BE THE DRIVABLE ANCHOR TYPE.
3. FOR DELINEATORS (SPECIAL) LOCATION INFORMATION, SEE PAVEMENT DELINEATION DETAILS.
4. EXACT LOCATION OF HIGHWAY POST MARKERS TO BE DETERMINED BY THE ENGINEER.

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED
JACK KEMMERLY | JOHN KEBER
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SERGIO ACEVES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC

LAST REVISION 4-2-13
DATE PLOTTED => 13-JUN-2013
TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0312000025nc001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0390
PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	18	26

John R. Keber 5-9-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
John R. Keber
No. 40048
Exp. 12-31-13
CIVIL
STATE OF CALIFORNIA

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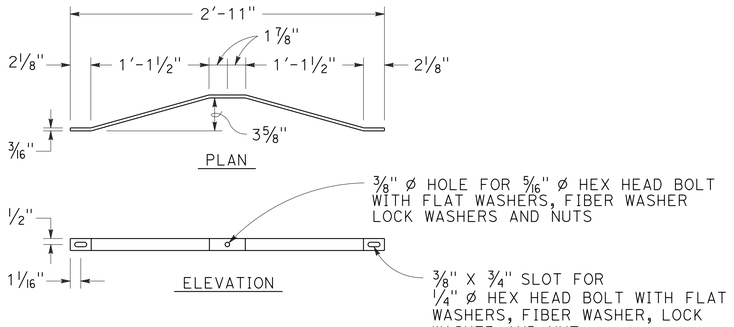
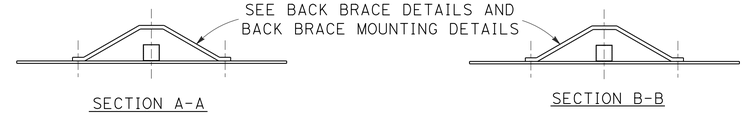
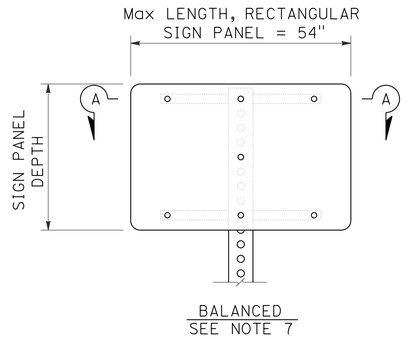
NOTES:

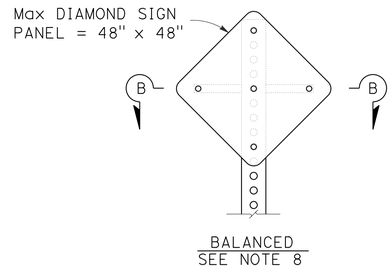
1. THE SIGN POST SHALL HAVE 7/16" DIAMETER PERFORATIONS 1" ON CENTER ON ALL FOUR SIDES FOR THE FULL LENGTH.
2. USE TWO DRIVE RIVETS TO FASTEN ASSEMBLED SIGN AND SIGN POST INTO ANCHOR SLEEVE. INSTALL DRIVE RIVETS INTO THE SIDES FACING TRAFFIC.
3. ALL METAL SIGN POSTS AND ANCHOR SLEEVES SHALL BE GALVANIZED.
4. ALL ANCHOR SLEEVES SHALL BE EMBEDDED IN PCC.
5. BALANCED SINGLE POST INSTALLATIONS OF SINGLE SHEET ALUMINUM PANEL SIGNS REQUIRE BACK BRACES WHEN 2'-10" OR MORE IN LENGTH.
6. WOOD BLOCK SPACERS ARE NOT REQUIRED FOR SIGNS MOUNTED ON METAL POSTS.
7. ATTACH RECTANGULAR SIGN PANEL TO SIGN POST WITH BOLTS AT TOP AND BOTTOM. CENTER MAY BE ATTACHED WITH EITHER BOLT OR 3/8" DRIVE RIVET.
8. ATTACH DIAMOND SIGN PANEL TO SIGN POST WITH BOLT AT CENTER. TOP AND BOTTOM MAY BE ATTACHED WITH EITHER BOLTS OR 3/8" DRIVE RIVETS.
9. FOR DETAILS NOT SHOWN, SEE STANDARD PLANS RS1 AND RS2.



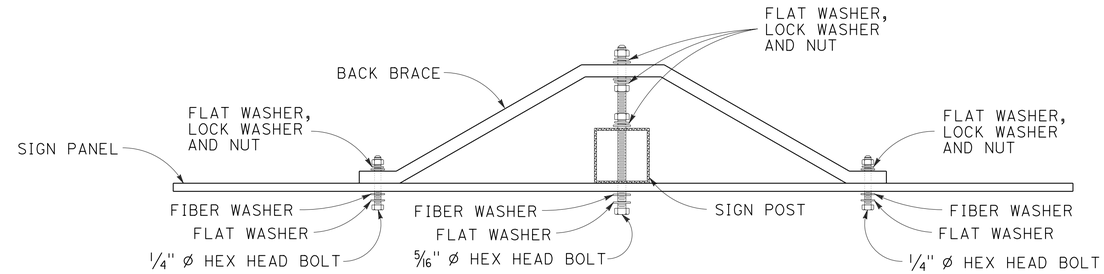
BACK BRACE DETAILS
SEE NOTE 5



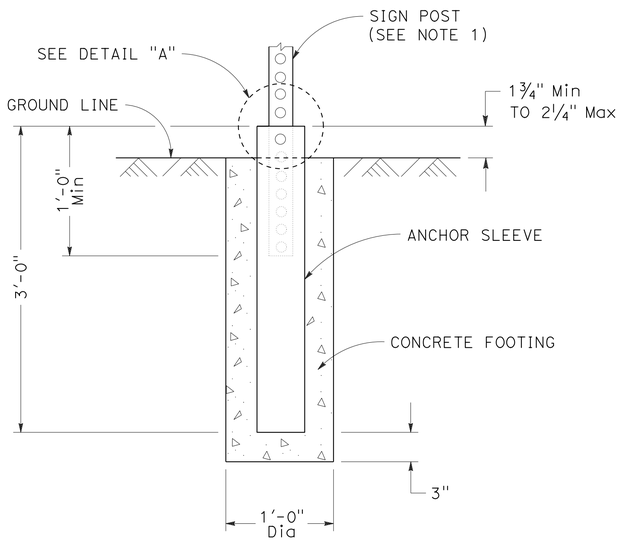




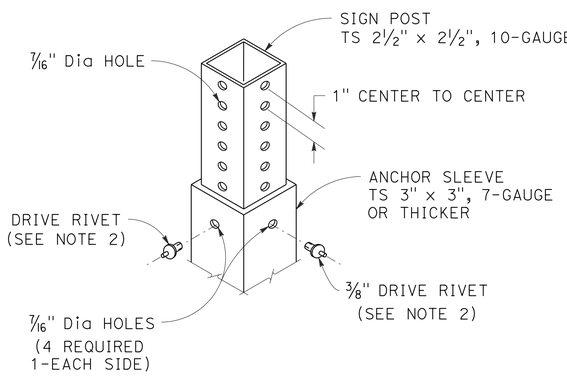
SINGLE POST INSTALLATION



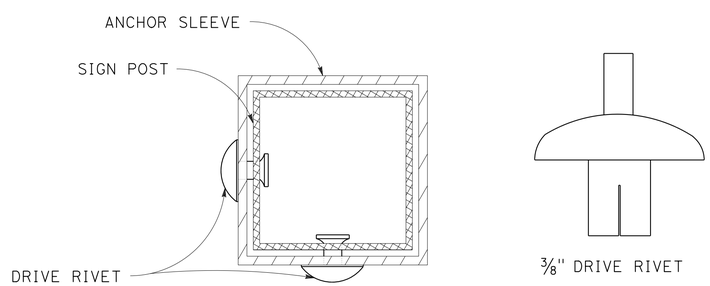
BACK BRACE MOUNTING DETAIL
SEE NOTES 6, 7 AND 8



ANCHOR SLEEVE DETAIL



DETAIL "A"



FASTENER DETAILS

SIGN PLANS
NO SCALE

SD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC
FUNCTIONAL SUPERVISOR: SERGIO ACEVES
CALCULATED-DESIGNED BY: JACK KEMMERLY
CHECKED BY: JOHN KEBER
REVISED BY
DATE REVISED

LAST REVISION 4-2-13
DATE PLOTTED => 13-JUN-2013
TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0390
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03	Col	20	28.2/30.5	19	26

John R. Keber 5-9-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — John R. Keber No. 40048 Exp. 12-31-13 CIVIL — STATE OF CALIFORNIA

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ROADSIDE SIGN QUANTITIES

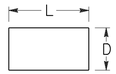
HIGHWAY POST LIMITS/LOCATION	ORIENTATION	SIGN CODE		PANEL SIZE	"C" DIM IN FEET	POST SIZE AND LENGTH	ROADSIDE SIGN	INSTALL SIGN (SSBM)	REMOVE ROADSIDE SIGN	REMARKS
		FEDERAL	CALIFORNIA	INCHES		METAL POST 2½"x2½"	ONE POST	EA	EA	
PM 28.60		W2-2L							1	
	FEBT	W2-2L		36 X 36	5	12′	1			SEE NOTE 5
PM 28.69		W1-7	N-1						1	
	FSBT	W1-7	N-1	48 X 24 18 X 18	4			1 1		SEE NOTE 6 SEE NOTE 6
HUNTER ROAD		R1-1							1	
	FSBT	R1-1		30 X 30	5	10′	1			SEE NOTE 5
PM 28.77		W2-2R							1	
	FWBT	W2-2R		36 X 36	5	12′	1			SEE NOTE 5
O'HAIR ROAD		R1-1							1	
	FNBT	R1-1		30 X 30	5	10′	1			SEE NOTE 5
PM 28.99		W1-7	N-1						1	
	FNBT	W1-7	N-1	48 X 24 18 X 18	4	10′	1			SEE NOTE 7
PM 29.11		W2-2L							1	
	FEBT	W2-2L		36 X 36	5	12′	1			SEE NOTE 5
PM 29.20		W1-7	N-1						1	
	FSBT	W1-7	N-1	48 X 24 18 X 18	4	10′	1			SEE NOTE 8
WILSON ROAD		R1-1							1	
	FSBT	R1-1		30 X 30	5	10′	1			SEE NOTE 5
PM 29.26		W2-2R							1	
	FWBT	W2-2R		36 X 36	5	12′	1			SEE NOTE 5
TOTAL							9	2	10	———

NOTES:

1. EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
2. POST LENGTHS GIVEN ARE APPROXIMATE.
3. "C" DIM = VERTICAL CLEARANCE EP TO BOTTOM OF SIGN PANEL.
4. (N) - NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.
5. FOR ADDITIONAL METAL POST INSTALLATION INFORMATION, SEE SIGN DETAIL PLANS.
6. SIGN PANEL TO BE MOUNTED ON ELECTROLIER (J171) FSBT ON HUNTER ROAD.
7. SIGN PANELS TO BE ORIENTED FNBT ON O'HAIR ROAD.
8. SIGN PANELS TO BE ORIENTED FSBT ON WILSON ROAD.

ROADSIDE SIGN PANEL QUANTITIES

SIGN CODE		SIGN MESSAGE/DESCRIPTION	PANEL SIZE L x D	PANEL AREA	NUMBER OF PANELS	BACKGROUND		LEGEND		PROTECTIVE OVERLAY	FURNISH SINGLE SHEET ALUMINUM SIGN	
						SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	PREMIUM	UNFRAMED	
											0.063"	0.080"
FEDERAL	CALIFORNIA		INCHES	SQFT							SQFT	SQFT
R1-1		STOP	30	5.18	3	RED	IX	WHITE	IX	X	15.54	
W1-7		TWO-DIRECTION LARGE ARROW	48 x 24	8.00	3	YELLOW	IX	BLACK		X		24.00
W2-2L		SIDE ROAD (Symbol)	36 x 36	9.00	2	YELLOW	III	BLACK		X	18.00	
W2-2R		SIDE ROAD (Symbol)	36 x 36	9.00	2	YELLOW	III	BLACK		X	18.00	
	N-1	OBJECT MARKER	18 x 18	2.25	3	YELLOW	III				6.75	
TOTAL											58.29	24.00



L = LENGTH OF PANEL
D = DEPTH OF PANEL

SIGN QUANTITIES

SQ-1

REVISED BY | DATE REVISED
JACK KEMMERLY | JOHN KEBER
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SERGIO ACEVES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

LAST REVISION 4-2-13 | DATE PLOTTED => 13-JUN-2013 | TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010 | USERNAME => s125660 | DGN FILE => 0312000025od001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0390 | PROJECT NUMBER & PHASE 03120000251

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	20	26

Russell F. Petty 5-3-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUSSELL F. PETTY
No. 72008
Exp. 06-30-14
CIVIL
STATE OF CALIFORNIA

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ROADWAY ITEMS

LOCATION	COLD PLANE ASPHALT CONCRETE PAVEMENT	RUBBERIZED HOT MIX ASPHALT, SUPERPAVE (GAP GRADED)	RUBBERIZED HOT MIX ASPHALT (OPEN GRADED)	HOT MIX ASPHALT, SUPERPAVE (TYPE A)	ROADWAY EXCAVATION	CLASS 2 AGGREGATE BASE	CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	TACK COAT	SHOULDER BACKING	CRACK TREATMENT
STATION	SQYD	TON	TON	TON	CY	TON	STA	TON	TON	LNMI
"A" 10+00-129+68	44,260.8	6,112.7	2,788.4					29.6		4.6
SAFETY EDGE		110.2								
"A" 10+00-104+00							94			
"A" 24+68-27+98		130.7	59.1	228.8	843.4	1,383.1				
"A" 47+00-50+80		141.5	63.9	247.6	912.5	1,496.6				
"A" 10+00-25+50									174.4	
"A" 27+50-34+00 LT									36.6	
"A" 34+50-39+00 LT									25.3	
"A" 27+00-39+00 RT									67.5	
"A" 40+50-57+75 LT									97.1	
"A" 40+50-49+00 RT									47.8	
"A" 48+50-60+00 LT									64.7	
"A" 49+50-89+50 RT									225.0	
"A" 61+00-69+25 LT									46.4	
"A" 69+75-73+25 LT									19.7	
"A" 74+25-128+00 LT									302.4	
"A" 90+25-105+00 RT									83.0	
"A" 106+00-126+00 RT									112.5	
"A" 127+00-128+00 RT									5.6	
TOTAL	44,260.8	6,495.1	2,911.4	476.4	1,755.9	2,879.7	94	29.6	1,308.0	4.6

SAFETY EDGE

LOCATION	DIRECTION	(N) TOTAL THICKNESS OF SAFETY EDGE	(N) LENGTH OF SAFETY EDGE	RUBBERIZED HOT MIX ASPHALT, SUPERPAVE (GAP GRADED)
STATION	LT/RT	FT	LF	TON
"A" 10+00-25+00	BOTH	0.30	1,500	8.8
"A" 27+50-33+50	LT	0.30	600	3.5
"A" 35+75-38+75	LT	0.30	300	1.8
"A" 27+00-38+75	RT	0.30	1,175	6.9
"A" 40+75-47+50	LT	0.30	675	4.0
"A" 40+75-48+00	RT	0.30	725	4.3
"A" 48+75-57+50	LT	0.30	875	5.1
"A" 49+75-81+50	RT	0.30	3,175	18.6
"A" 62+25-68+75	LT	0.30	650	3.8
"A" 70+00-72+75	LT	0.30	275	1.6
"A" 74+75-126+50	LT	0.30	5,175	30.3
"A" 82+25-88+75	RT	0.30	650	3.8
"A" 90+75-100+75	RT	0.30	1,000	5.9
"A" 101+75-103+50	RT	0.30	175	1.0
"A" 107+00-125+50	RT	0.30	1,850	10.8
SUBTOTAL (IN ROADWAY ITEMS TABLE)			18,800	110.2

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

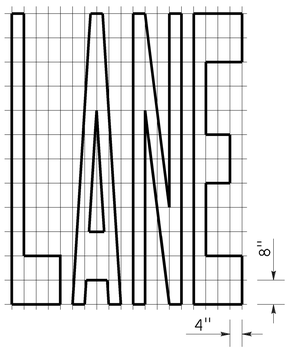
SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING
FUNCTIONAL SUPERVISOR: CHARLES W. LAUGHLIN
CALCULATED-DESIGNED BY
CHECKED BY
RUSSELL F. PETTY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 13-JUN-2013
TIME PLOTTED => 14:29

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0312000025pa001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0310
PROJECT NUMBER & PHASE 03120000251



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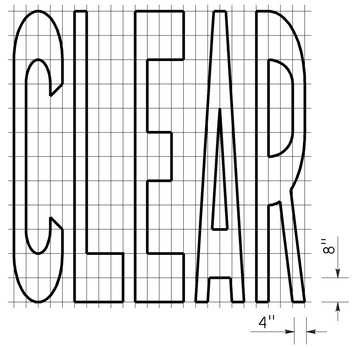

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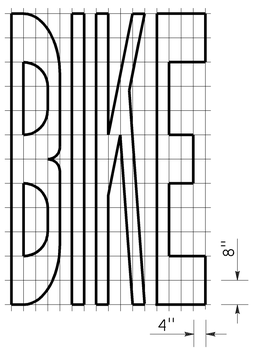

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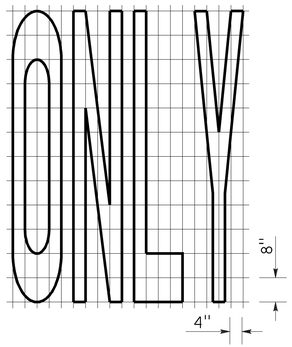

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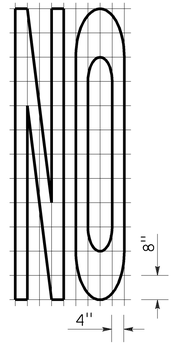

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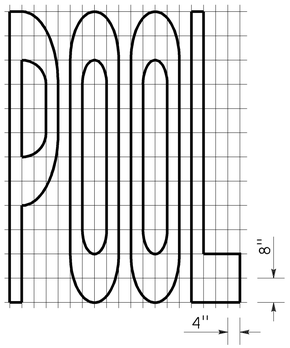

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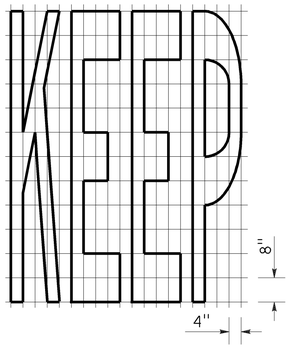

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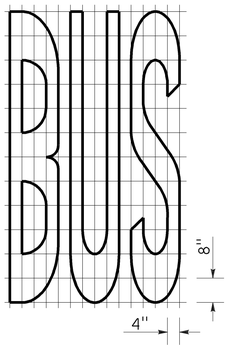

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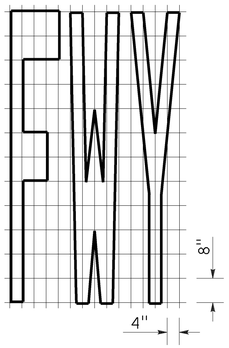

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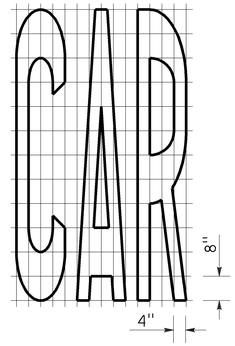
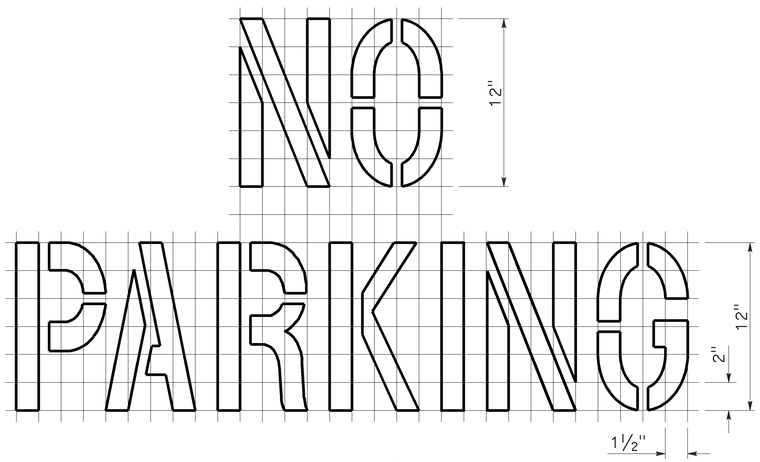


A=17 ft^2

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



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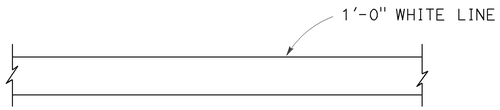
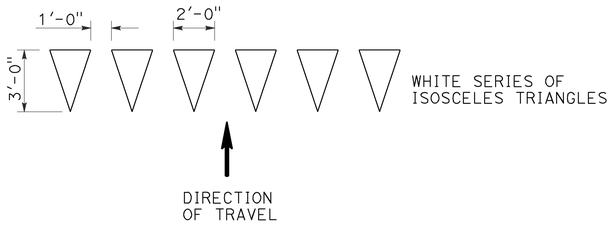
See Notes 6 and 7



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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	21	26

Roberta L. McLaughlin
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

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TO ACCOMPANY PLANS DATED 6-17-13

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

6-12-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	22	26

REGISTERED CIVIL ENGINEER

January 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Cornelis M. Hakim
No. C55610
Exp. 12-31-12
CIVIL
STATE OF CALIFORNIA

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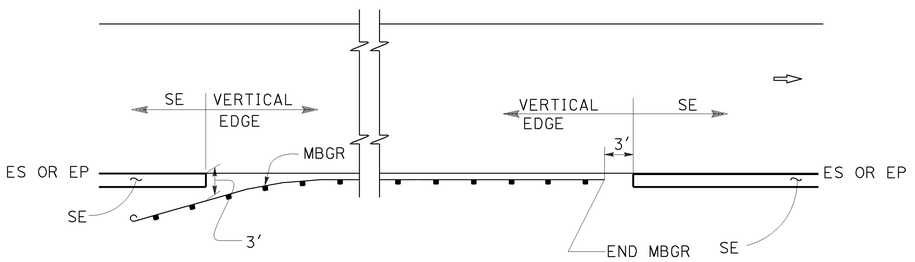
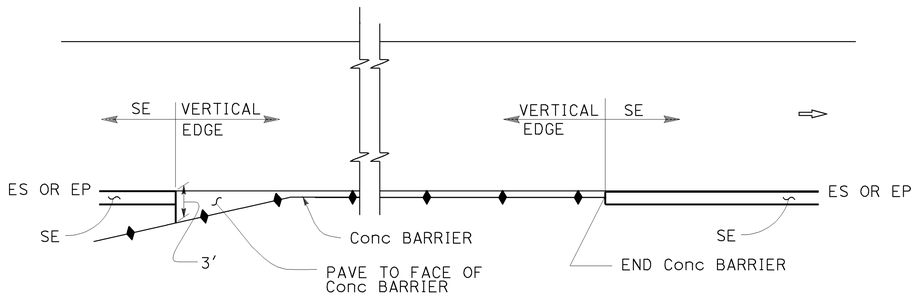
TO ACCOMPANY PLANS DATED 6-17-13

ABBREVIATIONS:

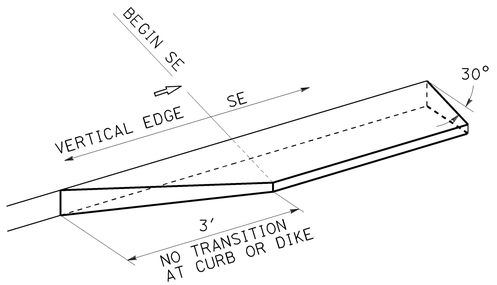
SE SAFETY EDGE



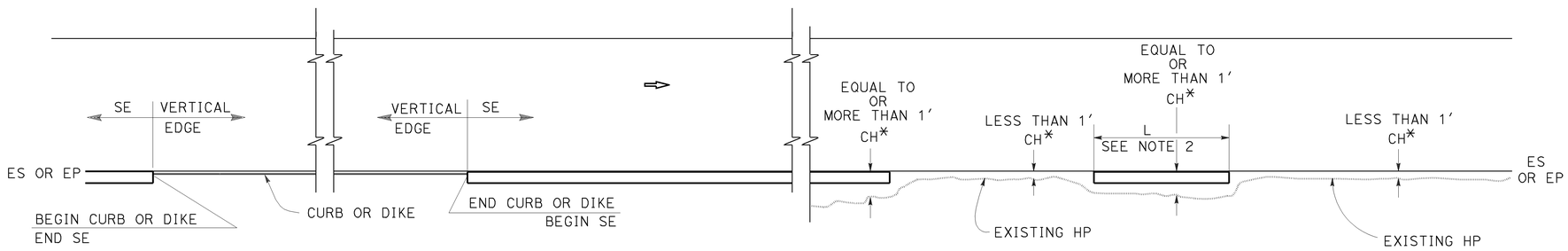
MBGR



CONCRETE BARRIER



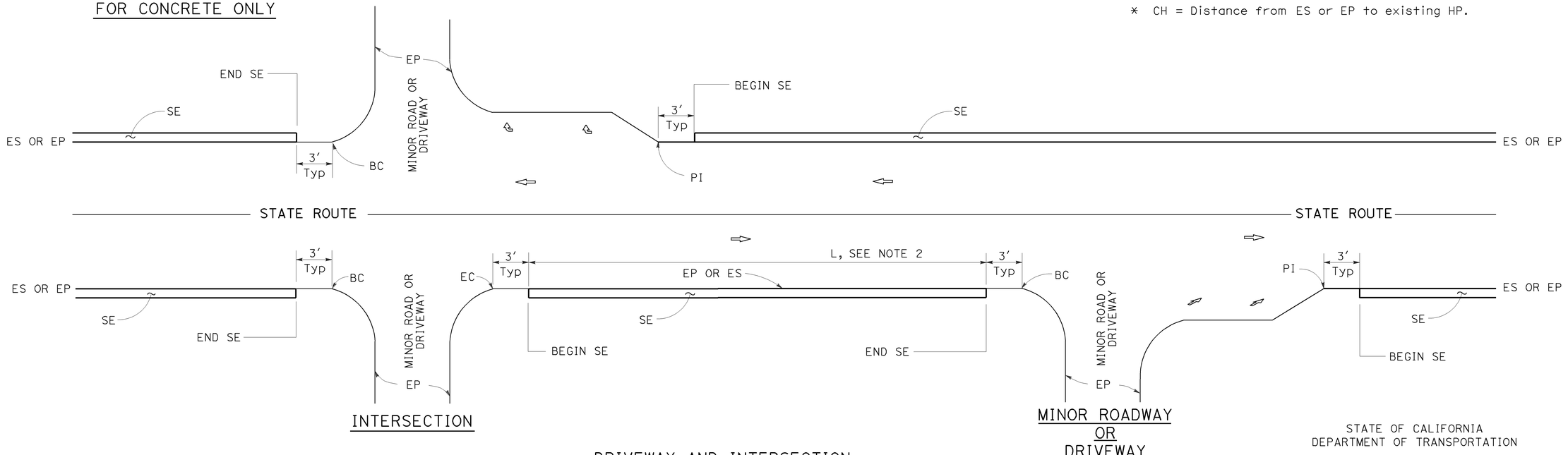
TRANSITION DETAIL
FOR CONCRETE ONLY



CURB OR DIKE

NARROW SIDE SLOPE

* CH = Distance from ES or EP to existing HP.



INTERSECTION

DRIVEWAY AND INTERSECTION

MINOR ROADWAY OR DRIVEWAY

NOTES:

1. For details not shown, see Revised Standard Plans RSP P75 and RSP P76.
2. Safety edge is optional when L is less than 30′.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE TREATMENTS

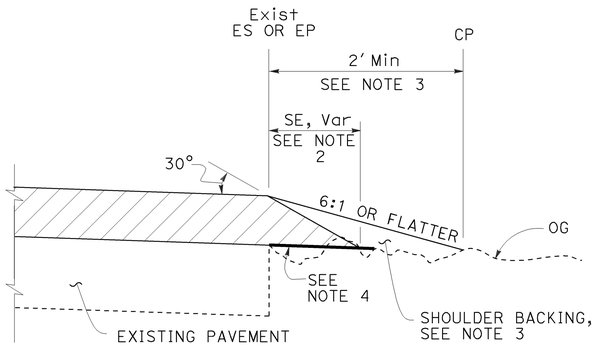
NO SCALE

RSP P74 DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

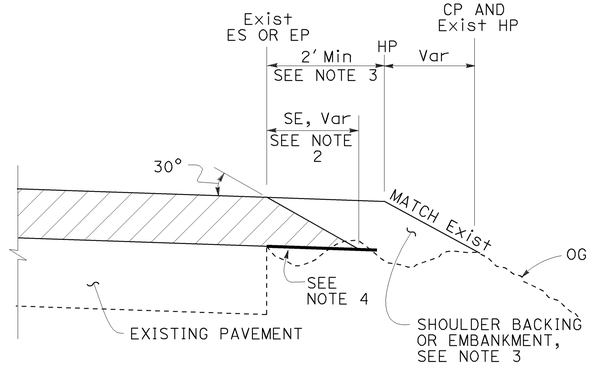
REVISED STANDARD PLAN RSP P74

2010 REVISED STANDARD PLAN RSP P74

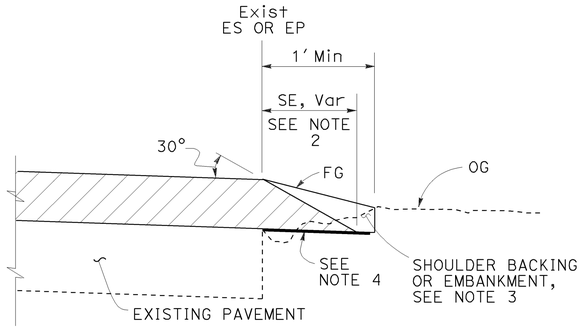
01-05-12



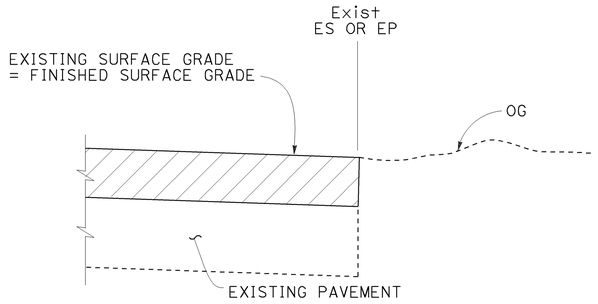
CASE A
Safety Edge



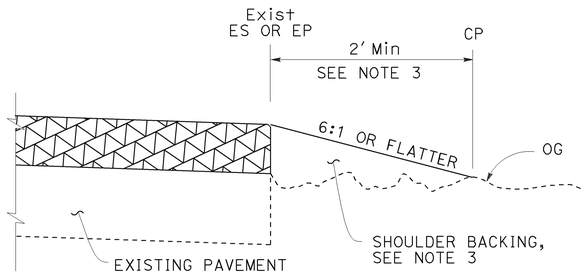
CASE B
Safety Edge



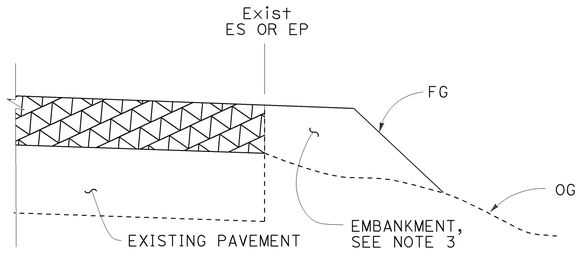
CASE C
Safety Edge



CASE D
Vertical Edge



CASE E
Vertical Edge



CASE F
Vertical Edge
* See Table A and Revised Std Plan RSP P74

NOTES:

1. For limits of safety edge and vertical edge treatments, see Revised Standard Plan RSP P74.
2. Details shown for HMA overlay thickness less than 0.43'. See Detail "A" for HMA overlay thickness more than 0.43' or concrete overlay.
3. For locations and limits of shoulder backing or embankment see project plans.
4. Grade existing ground to place safety edge. 1' minimum width
5. Safety edge transverse joint must match overlay transverse joint. End of #6 longitudinal bar must be 2" ±½" clear from transverse joint.
6. Safety edge is not needed in the area of MBGR, barrier, right turn lane and acceleration lane. See Revised Standard Plan RSP P74.

LEGEND:

HMA OVERLAY

HMA OR CONCRETE OVERLAY

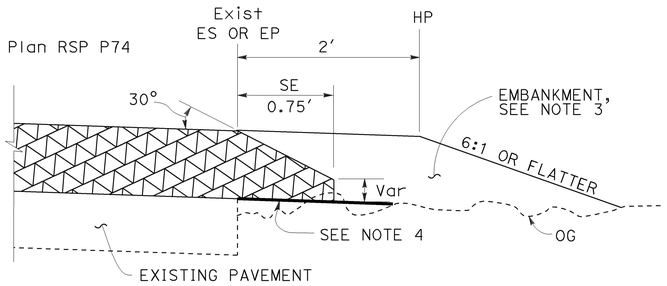
CONCRETE OVERLAY

ABBREVIATIONS:

SE SAFETY EDGE
TT TOTAL THICKNESS OF SE

TABLE A
EDGE TREATMENT FOR VARIOUS OVERLAY THICKNESS AND CONDITIONS

	OVERLAY THICKNESS	
FIELD CONDITION	LESS THAN 0.15'	0.15' OR MORE
Exist SLOPE 6:1 OR FLATTER	CASE E	CASE A
Exist SLOPE 3:1 TO 6:1	CASE E	CASE B
Exist SLOPE STEEPER THAN 3:1	CASE F	CASE F
CUT SECTION (REPLACE, COLD PLANE, MILL PAVEMENT)	CASE D	CASE C



DETAIL "A"
For HMA overlay thickness more than 0.43' or concrete overlay

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	23	26

REGISTERED CIVIL ENGINEER

January 20, 2012
PLANS APPROVAL DATE

Cornelis M. Hakim
No. C55610
Exp. 12-31-12
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

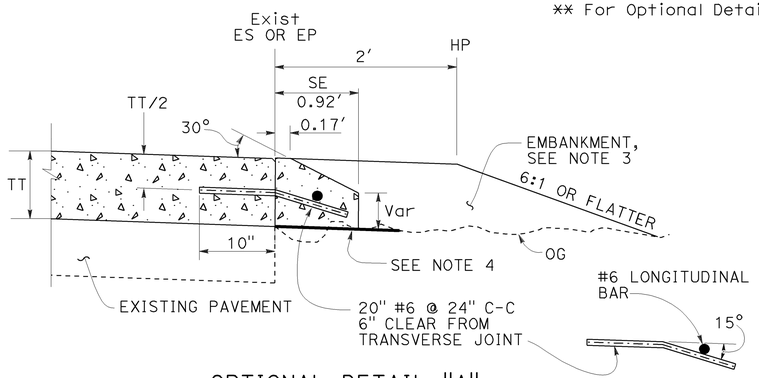
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 6-17-13

ADDITIONAL HMA OR CONCRETE QUANTITIES FOR SE/SIDE/MILE

TYPICAL CROSS SECTION	TT	TOTAL ADDITIONAL MATERIAL FOR SE/SIDE/MILE		
		HMA (TON)	CONCRETE (CY)*	CONCRETE (CY)**
TT	0.15'	NA	NA	NA
	0.20'	13.7	NA	NA
	0.30'	30.9	NA	NA
	0.40'	54.9	NA	NA
	0.45'	69.4	NA	NA
TT, 0.43'	0.50'	84.2	NA	NA
	0.60'	113.9	NA	NA
	0.70'	143.6	70.9	94.2
	0.80'	173.3	85.6	112.2
	0.90'	203.0	100.3	130.2
	1.00'	232.7	114.9	148.2
	1.10'	262.4	129.6	166.2
	1.20'	292.1	144.3	184.2

* For Detail "A"
** For Optional Detail "A"



OPTIONAL DETAIL "A"
For concrete overlay
See Note 5

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE TREATMENTS-OVERLAYS

NO SCALE

RSP P75 DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P75

2010 REVISED STANDARD PLAN RSP P75

01-09-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	24	26

REGISTERED CIVIL ENGINEER

January 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Cornelis M. Hakim
No. C55610
Exp. 12-31-12
CIVIL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 6-17-13

LEGEND:

HMA PAVEMENT

HMA OR CONCRETE PAVEMENT

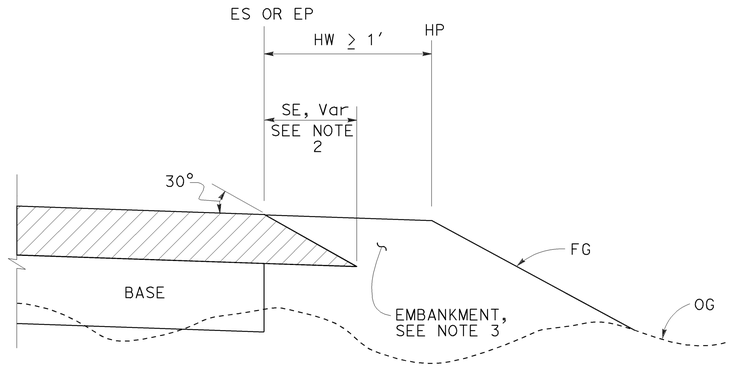
CONCRETE PAVEMENT

ABBREVIATIONS:

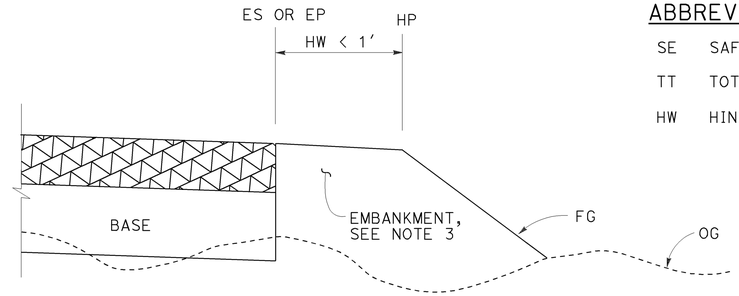
SE SAFETY EDGE

TT TOTAL THICKNESS OF SE

HW HINGE WIDTH, DISTANCE FROM ES OR EP TO HP

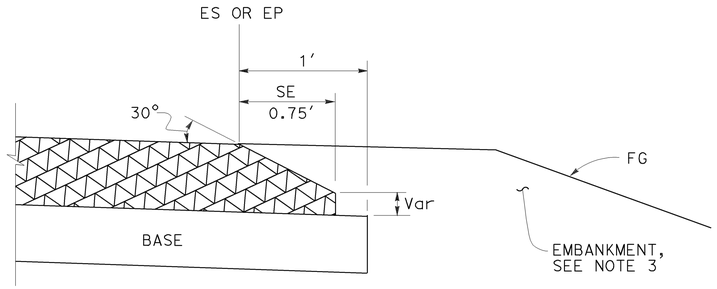


CASE K
Safety Edge - Fill Section, HW ≥ 1′

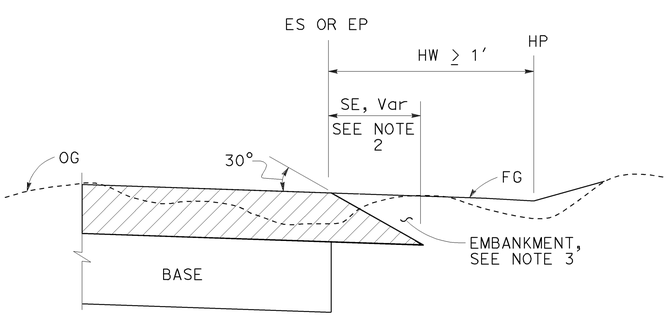


CASE L
Vertical Edge - Fill Section, HW < 1′

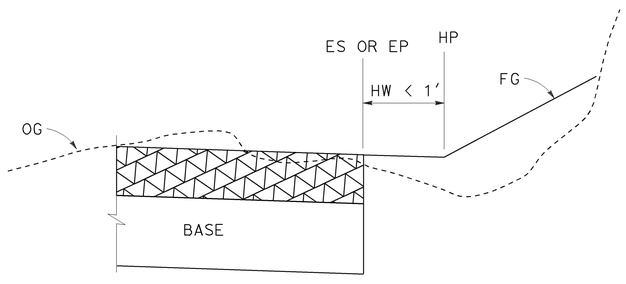
FILL SECTION



DETAIL "B"
For HMA pavement thickness
more than 0.43′ or concrete pavement

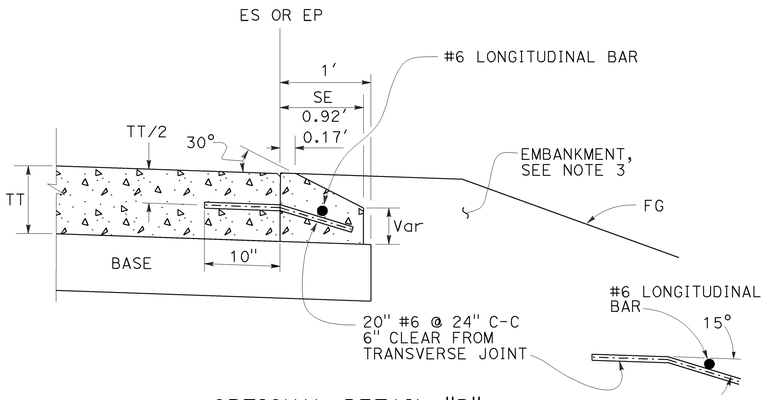


CASE M
Safety Edge - Cut Section, HW ≥ 1′



CASE N
Vertical Edge - Cut Section, HW < 1′

CUT SECTION



OPTIONAL DETAIL "B"
For concrete pavement
See Note 4

NOTES:

1. For limits of safety edge and vertical edge treatments, see Revised Standard Plan RSP P74
2. Details shown for HMA pavement thickness less than 0.43′. See Detail "B" for HMA pavement thickness more than 0.43′ or concrete pavement.
3. For locations and limits of embankment see project plans.
4. Safety edge transverse joint must match pavement transverse joint. End of #6 longitudinal bar must be 2" ±½" clear from transverse joint.
5. Safety edge is not needed in the area of MBGR, barrier, right turn lane and acceleration lane. See Revised Standard Plan RSP P74.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE TREATMENTS- NEW CONSTRUCTION

NO SCALE

RSP P76 DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P76

2010 REVISED STANDARD PLAN RSP P76

01-09-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	25	26

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 6-17-13

NOTES:

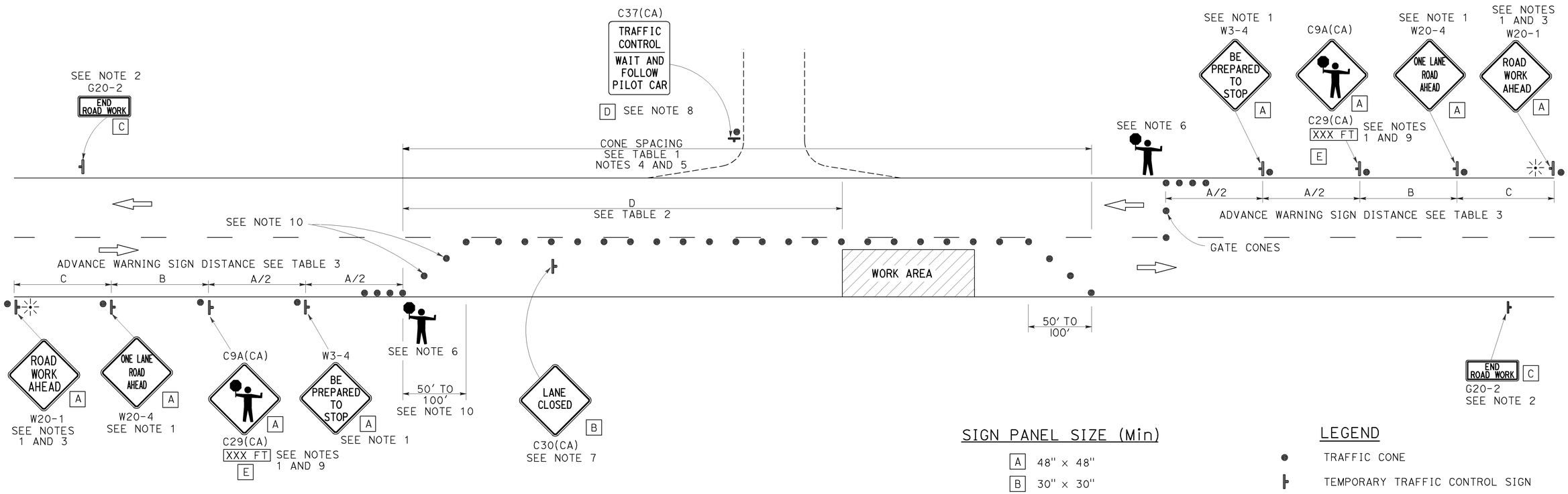
See Revised Standard Plan RSP T9 for tables.

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

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (Min)

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

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

NOTES:

1. 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.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
4. All cones used for lane 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 closures only.
6. 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.
7. 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.
8. When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. 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

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

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

4-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	26	26

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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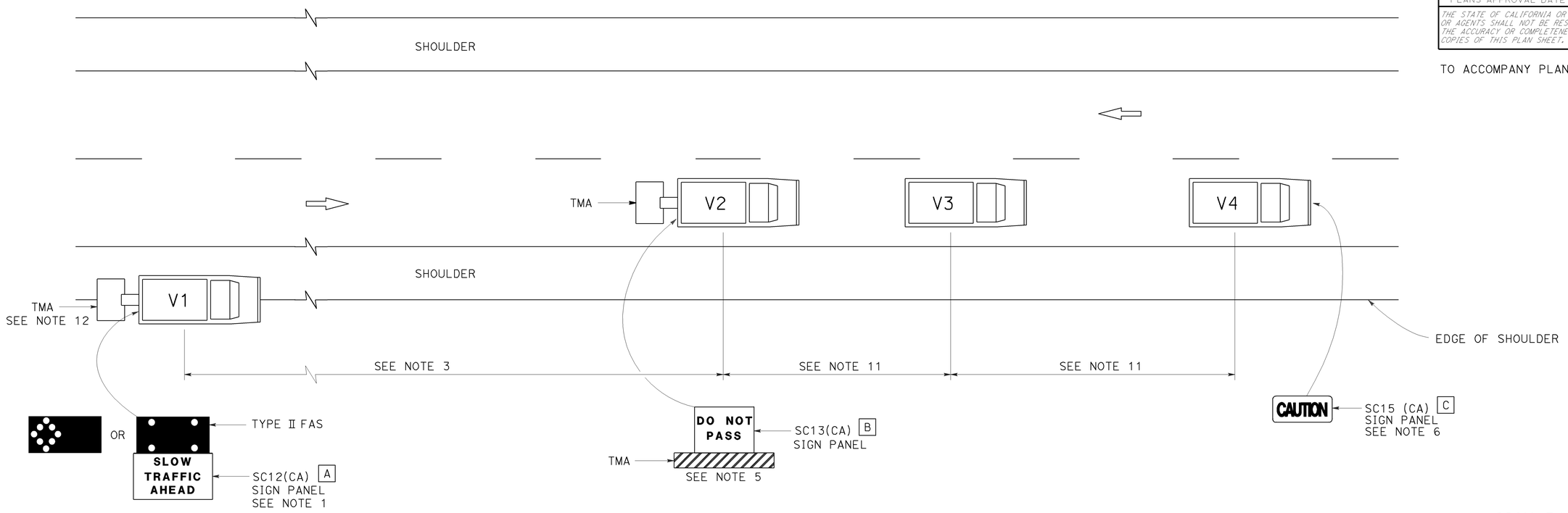
TO ACCOMPANY PLANS DATED 6-17-13



NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

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

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17

12-18-12