INDEX OF PLANS

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14-15	CONSTRUCTION AREA SIGNS
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19-22	SUMMARY OF QUANTITIES
23-28	ELECTRICAL PLANS
29-30	TRAFFIC CONTROL SYSTEMS
31-34	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

ACSTP-P016(036)E

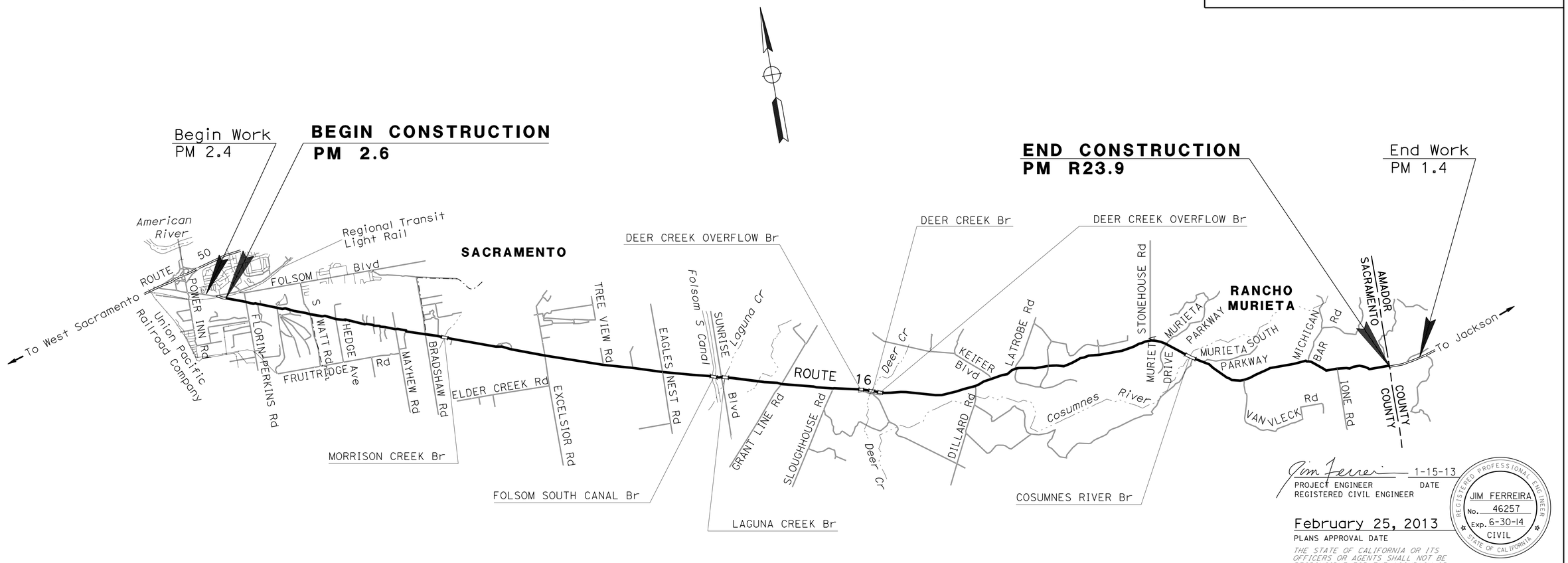
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	1	34

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SACRAMENTO COUNTY
IN AND NEAR SACRAMENTO
FROM 0.3 MILE EAST OF FOLSOM BOULEVARD TO THE AMADOR COUNTY LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



NO SCALE

Jim Ferreira 1-15-13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 46257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

February 25, 2013
PLANS APPROVAL DATE

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

PROJECT MANAGER: RONALD S. SYKES
DESIGN ENGINEER: RONALD S. SYKES

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

CONTRACT No.	03-4M2804
PROJECT ID	0300020518

LAST REVISION 00-00-00 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 10:47

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 => 0300020518ab001.dgn | UNIT 0484 | PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	2	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
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.

NOTES:

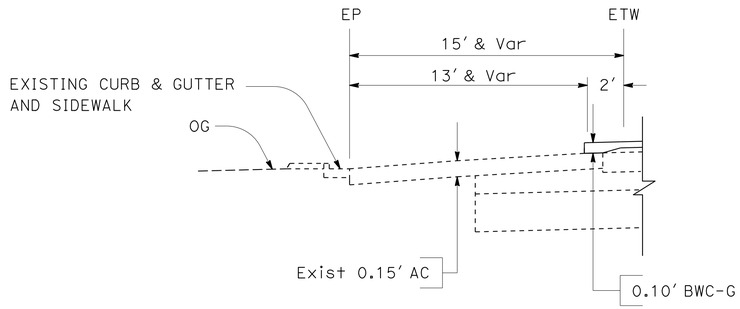
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. EXACT LOCATIONS AND TYPES OF DIKE ARE SHOWN IN THE SUMMARY OF QUANTITIES.
4. FOR RUMBLE STRIP, SEE SUMMARY OF QUANTITIES.

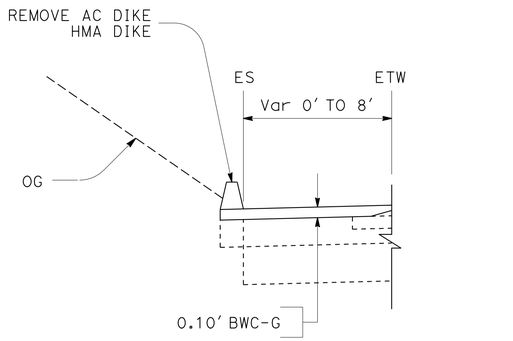
ABBREVIATION:

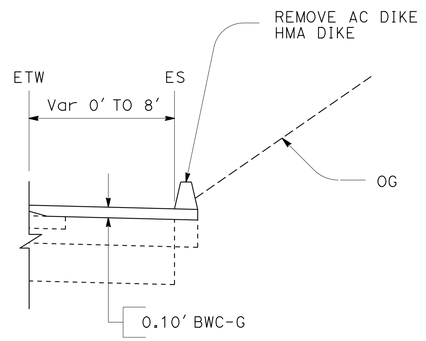
BWC-G = BONDED WEARING COURSE (GAP GRADED)

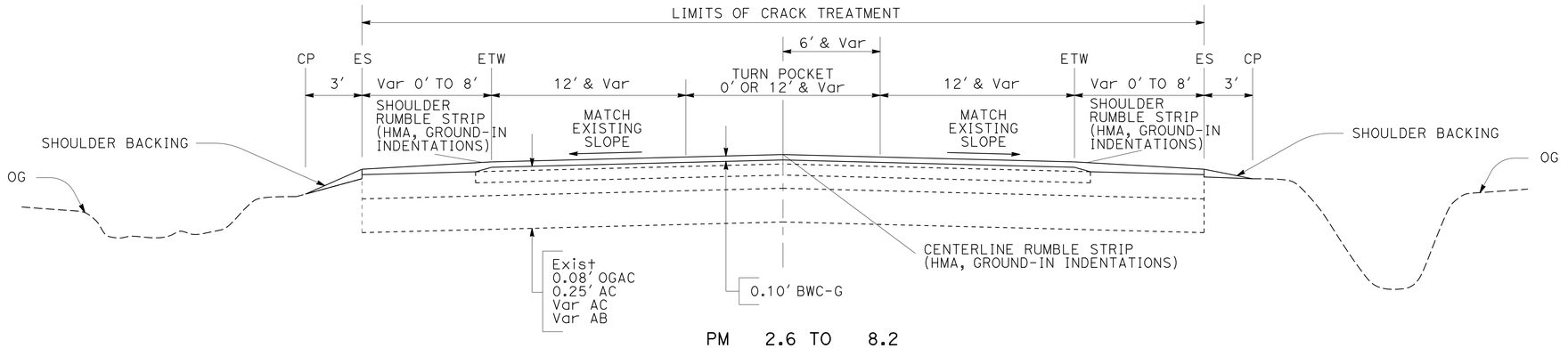
PAVEMENT CLIMATE REGION

INLAND VALLEY









PM 2.6 TO 8.2
PM 8.5 TO 13.7
PM R16.1 TO R16.6
PM R16.9 TO R18.2
PM R19.1 TO R23.9

ROUTE 16

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: JIM FERREIRA
CHECKED BY: RONALD S. SYKES
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 07-MAR-2013
07-19-10 TIME PLOTTED => 13:29

BORDER LAST REVISED 7/2/2010

USERNAME => s125660
DGN FILE => 0300020518ca001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0484

PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	3	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

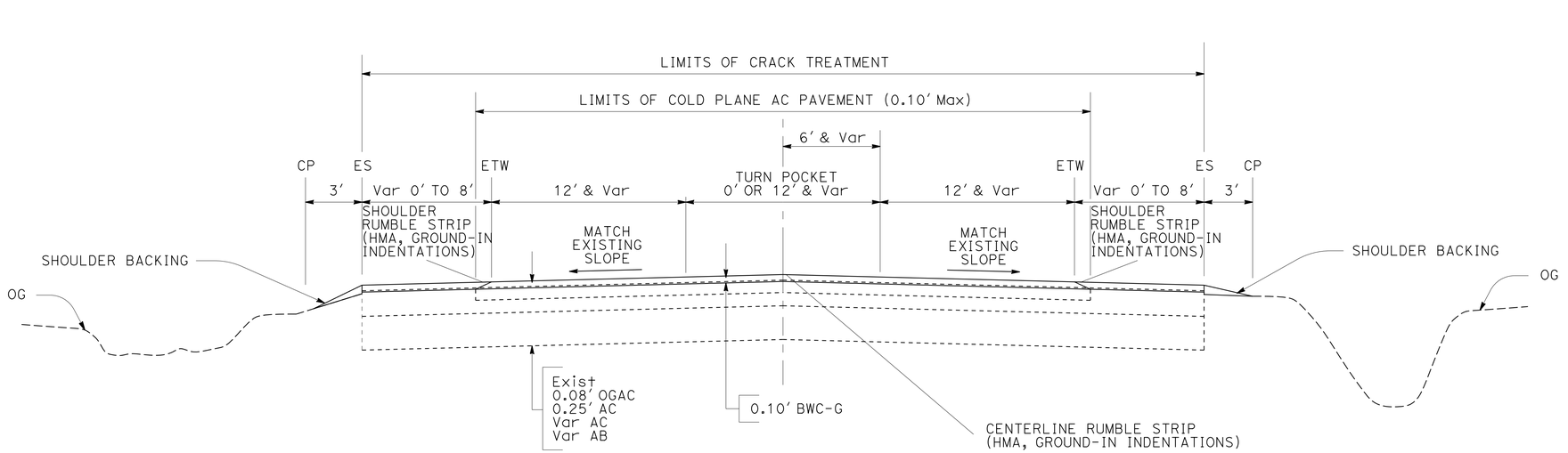
2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
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.

PAVEMENT CLIMATE REGION

INLAND VALLEY



PM 8.2 TO 8.5
PM 13.7 TO R16.1
PM R16.6 TO R16.9
PM R18.2 TO R19.1

ROUTE 16

TYPICAL CROSS SECTIONS

NO SCALE

X-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: JIM FERREIRA
CHECKED BY: RONALD S. SYKES

REVISED BY
DATE REVISED

LAST REVISION 07-19-10
DATE PLOTTED => 07-MAR-2013
TIME PLOTTED => 13:30

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0300020518ca002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	4	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
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.

NOTE:

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

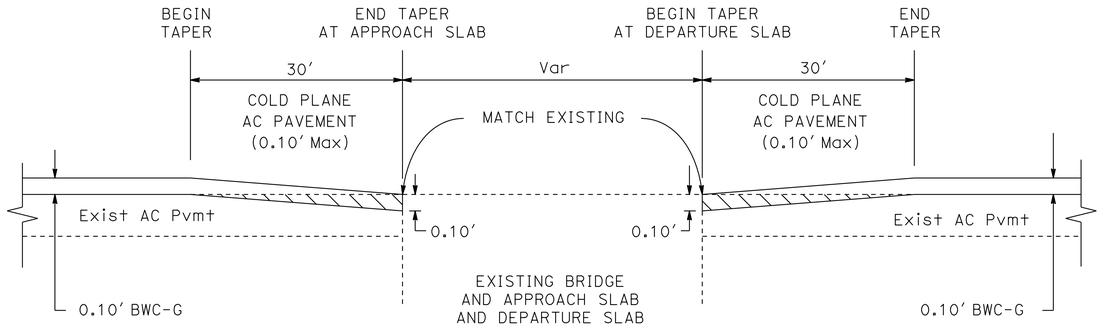
LEGEND:

COLD PLANE ASPHALT CONCRETE PAVEMENT

BWC-G

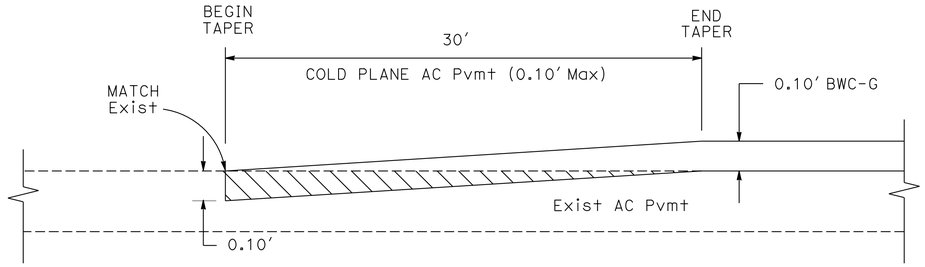
ABBREVIATION:

BWC-G - BONDED WEARING COURSE (GAP GRADED)



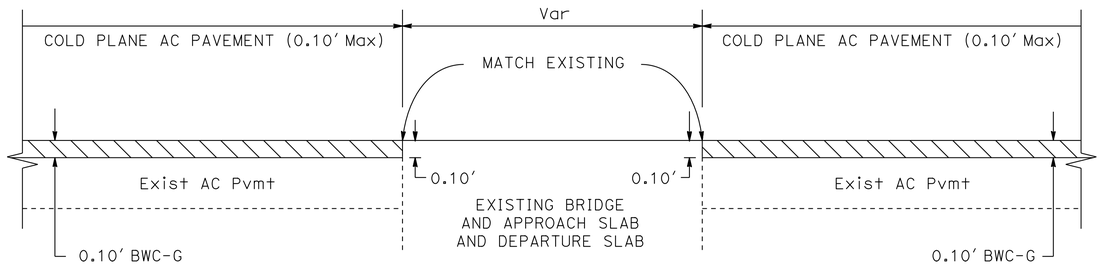
PAVING CONFORM AT BRIDGES

PM 6.64	MORRISON CREEK BRIDGE	(Br No. 24-0075)
PM T11.35	FOLSOM SOUTH CANAL BRIDGE	(Br No. 24-0336)
PM R11.53	LAGUNA CREEK BRIDGE	(Br No. 24-0343)
PM 19.72	COSUMNES RIVER BRIDGE	(Br No. 24-0080)



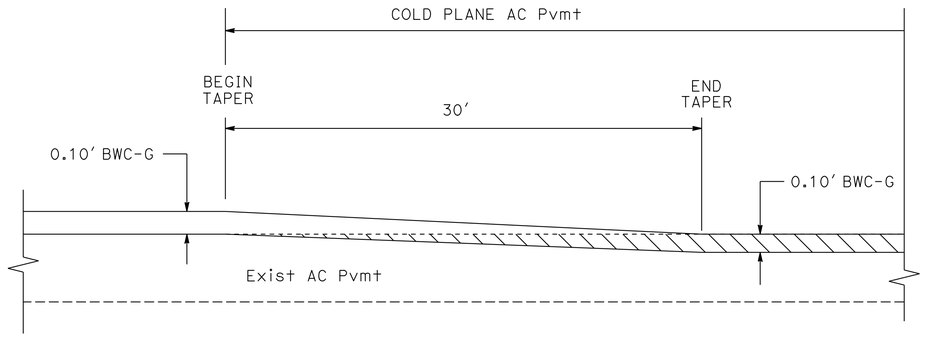
MAINLINE PAVING CONFORM

PM 2.6
PM R23.9



PAVING CONFORM AT BRIDGES WITH COLD PLANE AC PAVEMENT

PM 13.92	DEER CREEK OVERFLOW BRIDGE	(Br No. 24-0077)
PM 14.14	DEER CREEK BRIDGE	(Br No. 24-0078)
PM 14.37	DEER CREEK OVERFLOW BRIDGE	(Br No. 24-0079)



MAINLINE TRANSITION AT COLD PLANE AC PAVEMENT

CONSTRUCTION DETAILS

NO SCALE

C-1

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

LAST REVISION | DATE PLOTTED => 26-FEB-2013
07-19-10 | TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010 | USERNAME => s125660 | DGN FILE => 03000205181ga001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	5	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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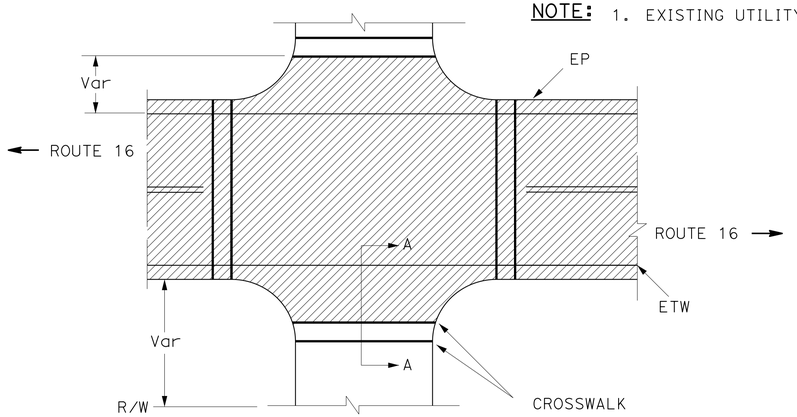
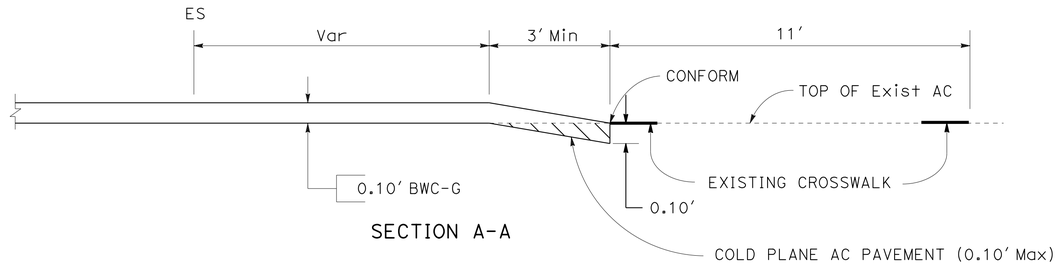
NOTE: 1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

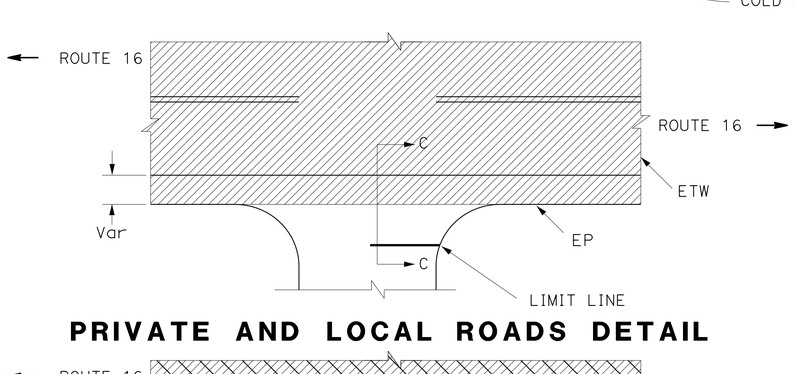


INTERSECTIONS

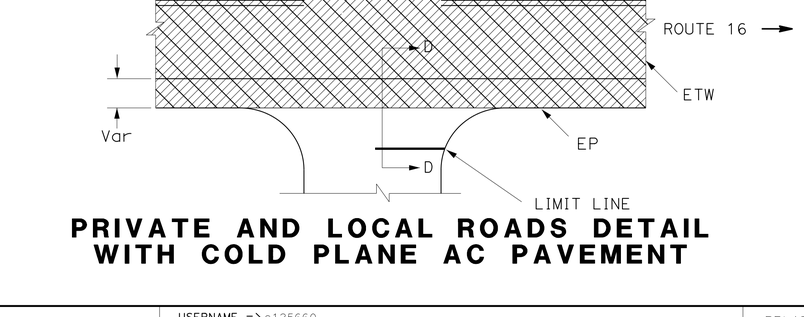
PM 3.02	FLORIN PERKINS ROAD	PM R11.47	SUNRISE BOULEVARD
PM 4.16	SOUTH WATT AVENUE	PM 12.54	GRANT LINE ROAD
PM 4.63	HEDGE AVENUE	PM 19.48	MURIETA PARKWAY
PM 6.22	BRADSHAW ROAD		



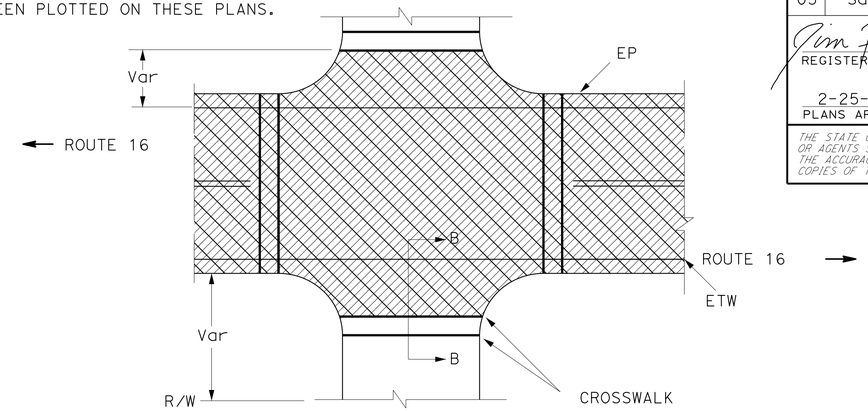
SECTION A-A



PRIVATE AND LOCAL ROADS DETAIL

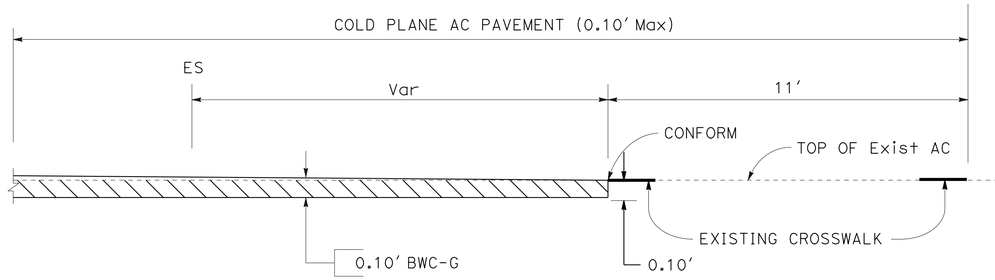


PRIVATE AND LOCAL ROADS DETAIL WITH COLD PLANE AC PAVEMENT

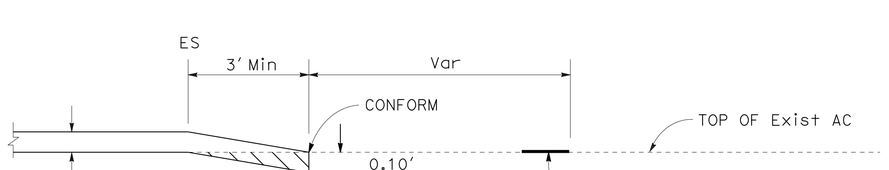


INTERSECTIONS WITH COLD PLANE AC PAVEMENT

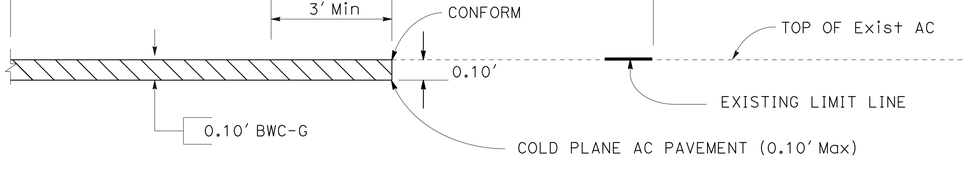
PM 8.34 EXCELSIOR ROAD
PM 16.00 DILLARD ROAD



SECTION B-B



SECTION C-C



SECTION D-D

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: JIM FERREIRA
CHECKED BY: RONALD S. SYKES
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 26-FEB-2013
07-19-10 TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0300020518ga002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	6	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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NOTES:

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. FOR LOCATIONS OF REPLACE ASPHALT CONCRETE SURFACING, SEE SUMMARY OF QUANTITIES.
3. EXACT LOCATIONS FOR REPLACE AC SURFACING ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

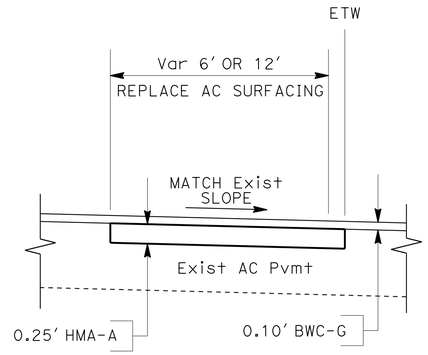
LEGEND:

COLD PLANE ASPHALT CONCRETE PAVEMENT

ABBREVIATIONS:

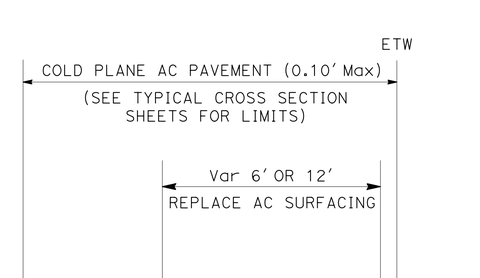
BWC-G - BONDED WEARING COURSE (GAP GRADED)

HMA-A - HOT MIX ASPHALT (TYPE A)



REPLACE AC SURFACING

TRAVELED WAY - SECTION VIEW



REPLACE AC SURFACING WITH COLD PLANE AC PAVEMENT

TRAVELED WAY - SECTION VIEW

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: JIM FERREIRA
CHECKED BY: RONALD S. SYKES

REVISED BY | DATE REVISED

LAST REVISION 07-19-10
DATE PLOTTED => 26-FEB-2013
TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010

USERNAME => s125660
DGN FILE => 0300020518ga003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0484

PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	7	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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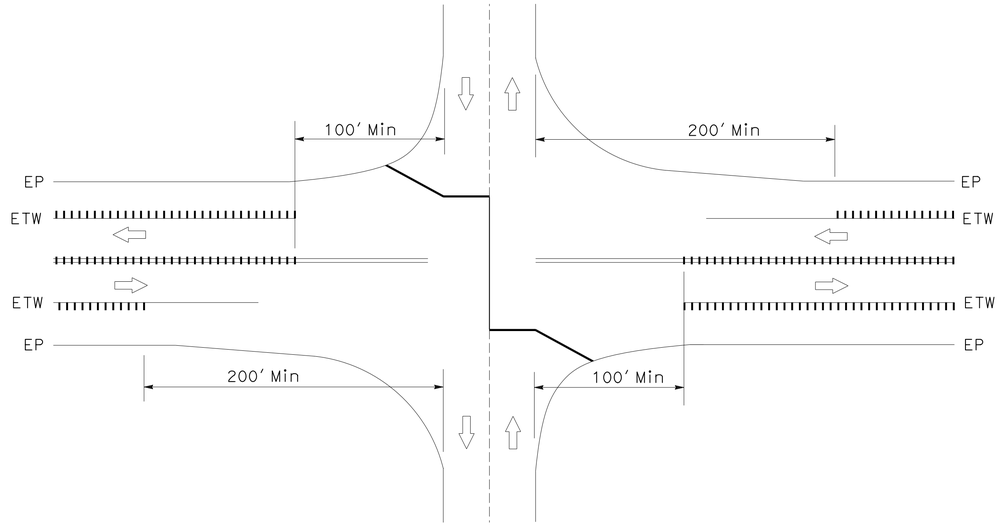
NOTE:

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

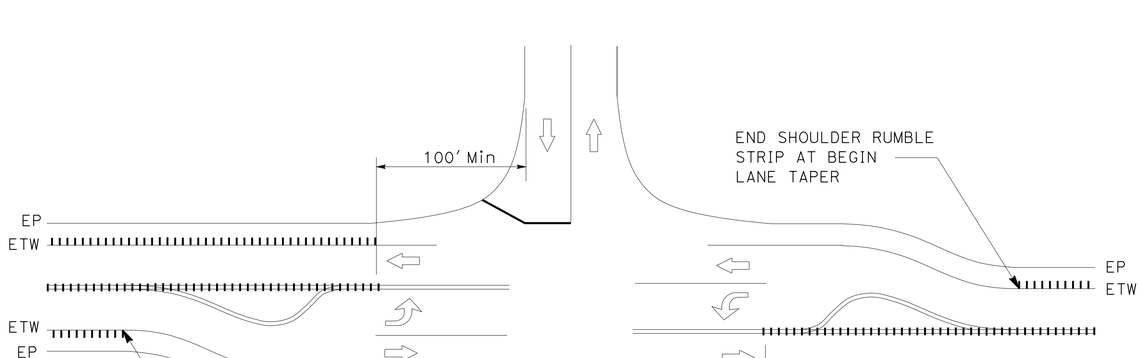
LEGEND:

CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)

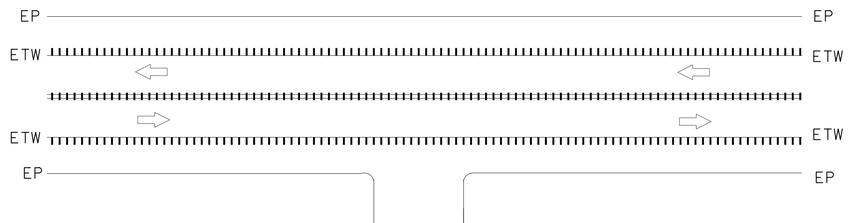
SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)



RUMBLE STRIP AT PUBLIC ROAD INTERSECTION



RUMBLE STRIP AT INTERSECTION WITH LEFT TURN POCKETS



RUMBLE STRIP AT PRIVATE ROAD OR DRIVEWAY

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: JIM FERREIRA
CHECKED BY: RONALD S. SYKES
REVISED BY
DATE REVISED

LAST REVISION 07-19-10
DATE PLOTTED => 26-FEB-2013
TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0300020518ga004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	8	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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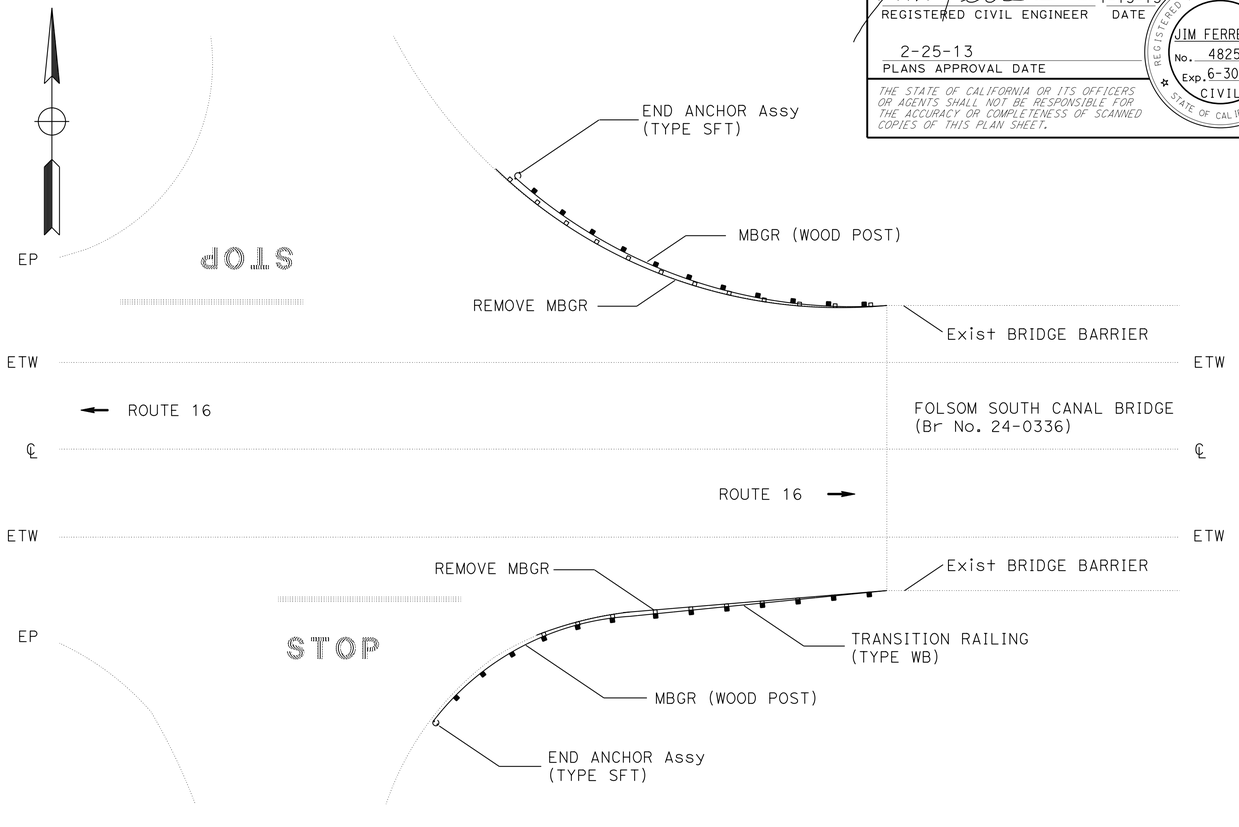
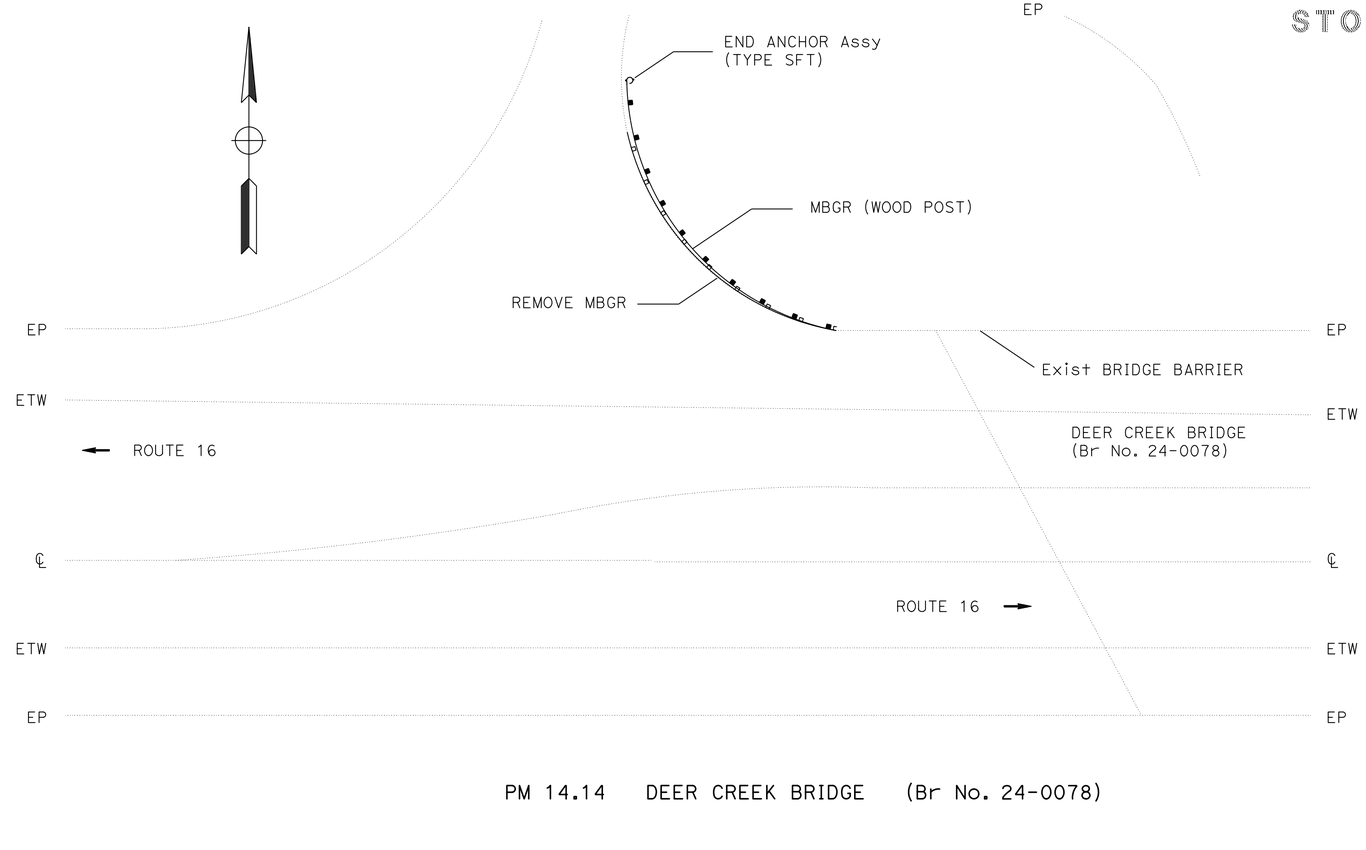
NOTE:

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



PM T11.35 FOLSOM SOUTH CANAL BRIDGE (Br No. 24-0336)



PM 14.14 DEER CREEK BRIDGE (Br No. 24-0078)

CONSTRUCTION DETAILS

NO SCALE

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: JIM FERREIRA
CHECKED BY: RONALD S. SYKES

REVISED BY | DATE REVISED

LAST REVISION 07-19-10 | DATE PLOTTED => 26-FEB-2013 | TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010 | USERNAME => s125660 | DGN FILE => 03000205181ga005.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	9	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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NOTES:

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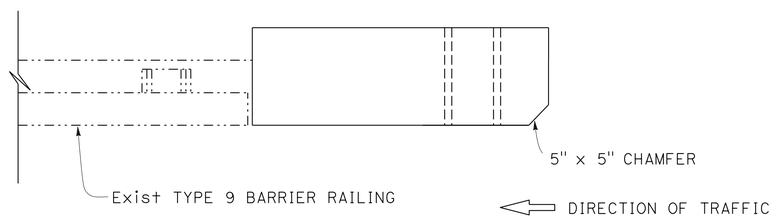
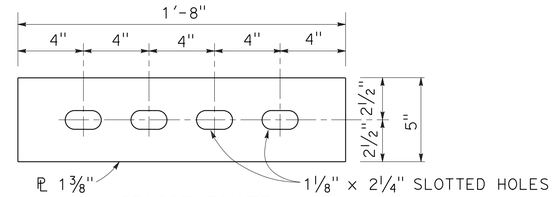
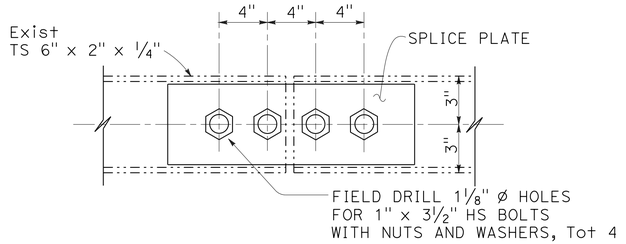
2. EXISTING BARRIER DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD BEFORE FABRICATING ANY END CONNECTION TO CONFORM WITH EXISTING CONDITIONS.
3. ALL PLATES AND BOLTS SHALL BE GALVANIZED.
4. IF RAIL IS NOT CONTINUOUS OVER 2 POSTS, USE RAIL SPLICE DETAIL AT EXISTING EXPANSION JOINT.
5. EXTERIOR SPLICE BOLT HOLES SHALL BE STANDARD 1" x 1⅛" SLOT SIZE FOR RAIL SPLICE AT POST No. T4 AND THE CONNECTION TO THE CONCRETE BARRIER OR RAILING. INTERIOR SPLICE BOLT HOLES MAY BE INCREASED UP TO 1⅛". WASHERS SHALL BE USED WITH SPLICE BOLTS ON BACK SIDE OF RAIL ELEMENT AT POST No. T4 AND CONNECTION TO THE CONCRETE BARRIER OR RAILING.
6. FOR ADDITIONAL INFORMATION, SEE SUMMARY OF QUANTITIES.



PLAN



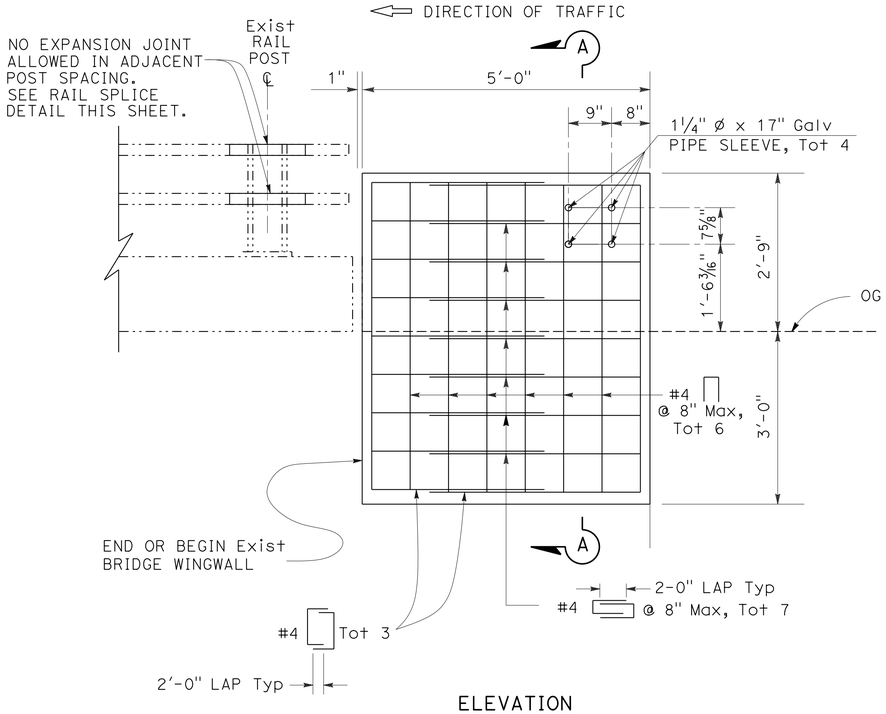
SPLICE PLATE



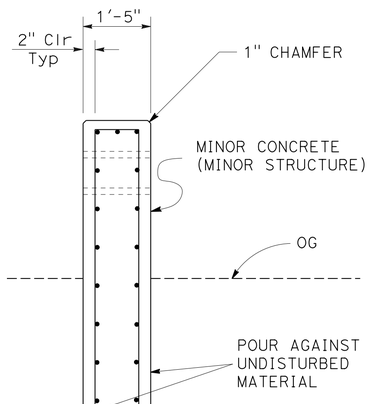
MODIFIED TUBE

RAIL SPLICE DETAIL

SEE NOTE 4



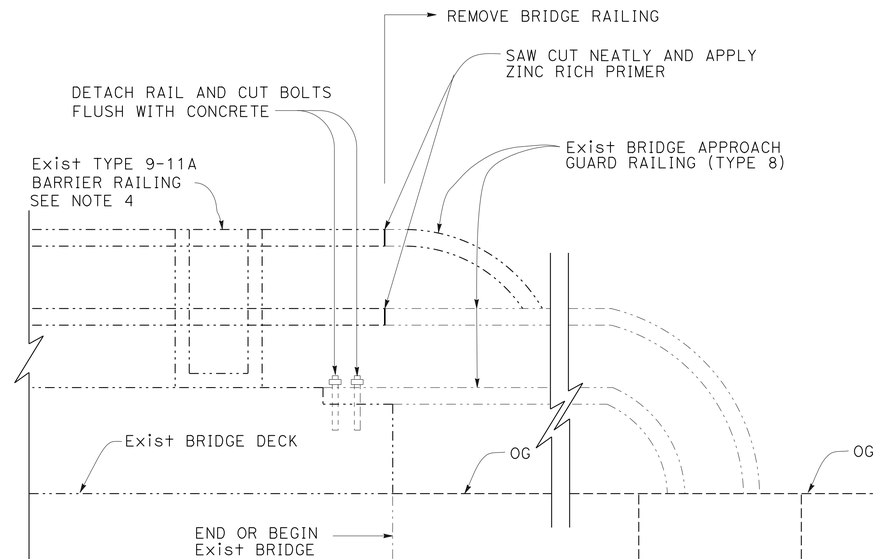
ELEVATION



SECTION A-A

CONCRETE ANCHOR BLOCK DETAIL

PM 6.64 MORRISON CREEK BRIDGE (Br No. 24-0075)



REMOVE BRIDGE RAILING DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-6

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

LAST REVISION DATE PLOTTED => 26-FEB-2013
TIME PLOTTED => 15:27
07-19-10

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 03000205181ga006.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	10	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
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.

NOTES:

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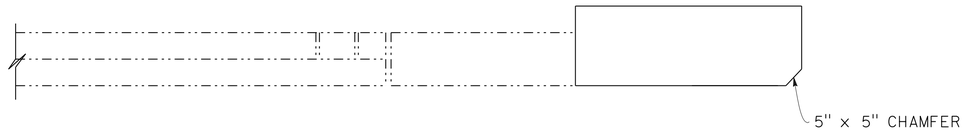
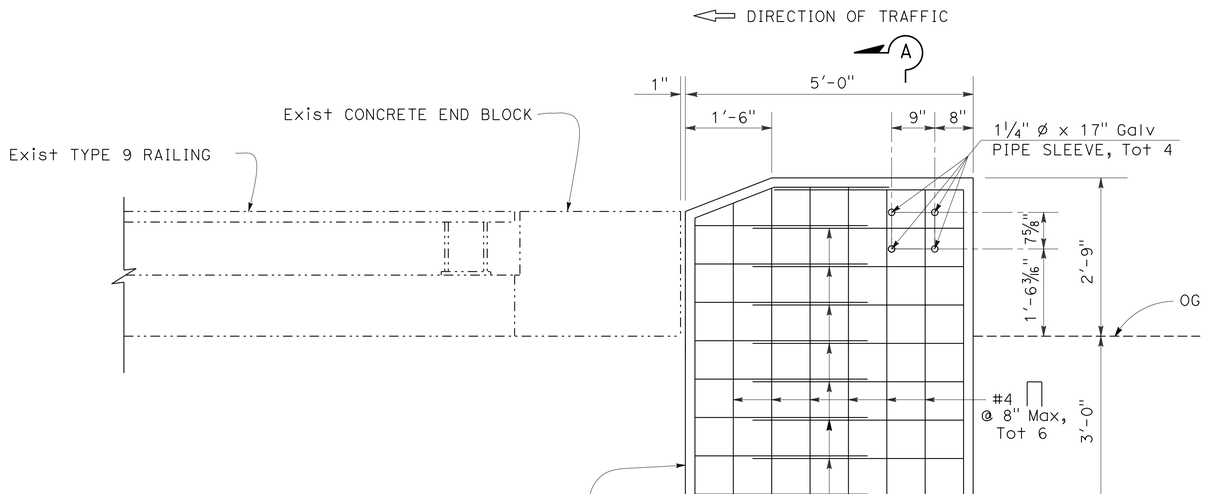
3. FOR ADDITIONAL INFORMATION, SEE SUMMARY OF QUANTITIES.

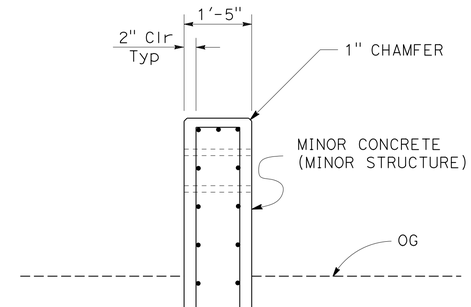


PLAN

DIRECTION OF TRAFFIC



ELEVATION



SECTION A-A

CONCRETE ANCHOR BLOCK DETAIL

PM T11.35 FOLSOM SOUTH CANAL BRIDGE (Br No. 24-0336)

CONSTRUCTION DETAILS

NO SCALE

C-7

CALCULATED-DESIGNED BY: JIM FERREIRA
CHECKED BY: RONALD S. SYKES
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
REVISED BY / DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 07-19-10
DATE PLOTTED => 26-FEB-2013
TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0300020518ga007.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	11	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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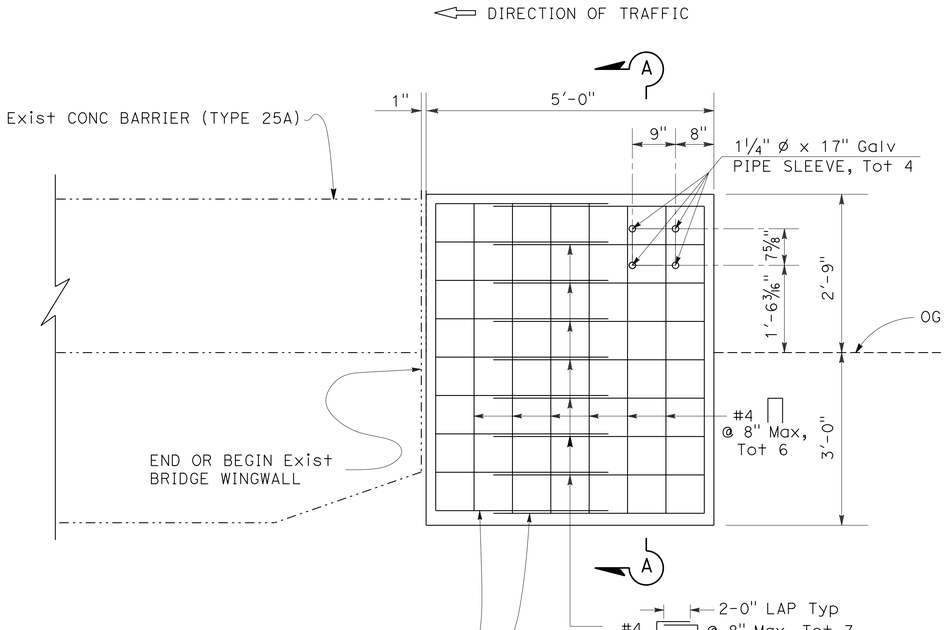
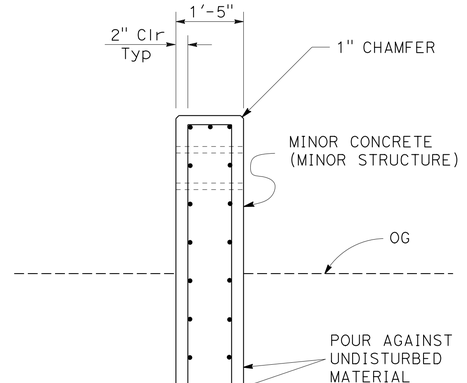


ELEVATION



SECTION A-A

CONCRETE ANCHOR BLOCK DETAIL

PM R11.53 LAGUNA CREEK BRIDGE (Br No. 24-0343)

CONSTRUCTION DETAILS

NO SCALE

C-8

REVISED BY | DATE REVISED
JIM FERREIRA | RONALD S. SYKES
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 26-FEB-2013 | TIME PLOTTED => 15:27
07-19-10

BORDER LAST REVISED 7/2/2010 | USERNAME => s125660 | DGN FILE => 03000205181ga008.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	12	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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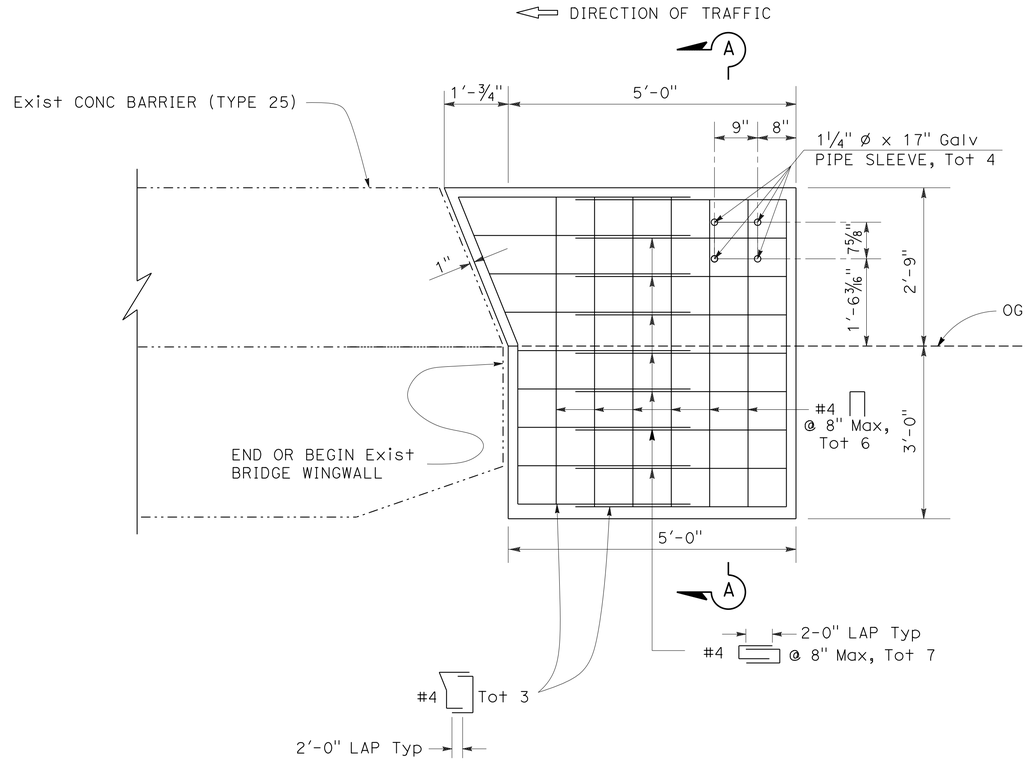
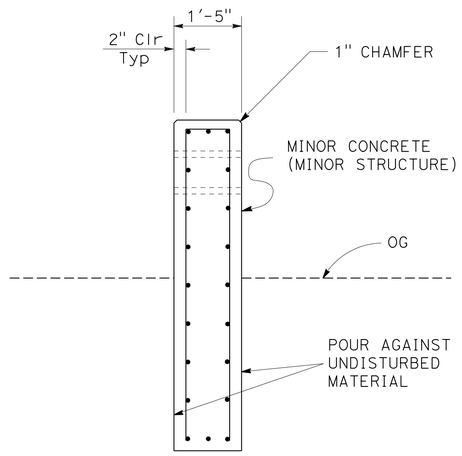


ELEVATION



SECTION A-A

CONCRETE ANCHOR BLOCK DETAIL

PM 13.92	DEER CREEK OVERFLOW BRIDGE	(Br No. 24-0077)
PM 14.14	DEER CREEK BRIDGE	(Br No. 24-0078)
PM 14.37	DEER CREEK OVERFLOW BRIDGE	(Br No. 24-0079)

CONSTRUCTION DETAILS

NO SCALE

C-9

JIM FERREIRA — CALCULATED-DESIGNED BY
RONALD S. SYKES — CHECKED BY
REVISED BY — DATE REVISED
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 26-FEB-2013
07-19-10 | TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0300020518ga009.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	13	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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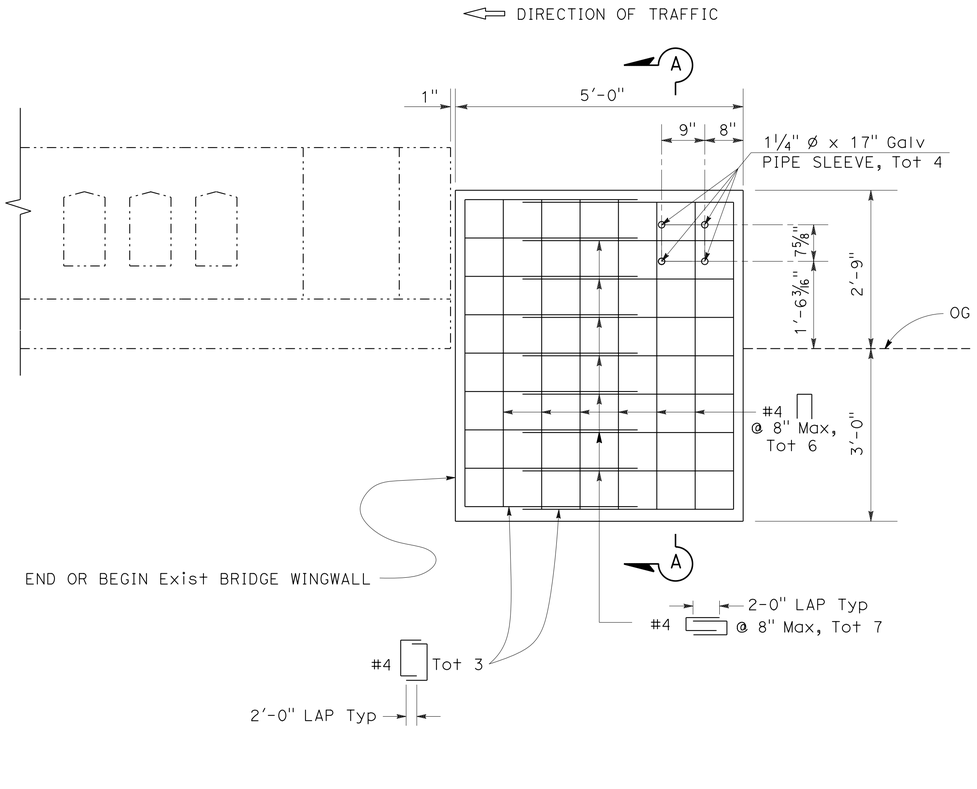

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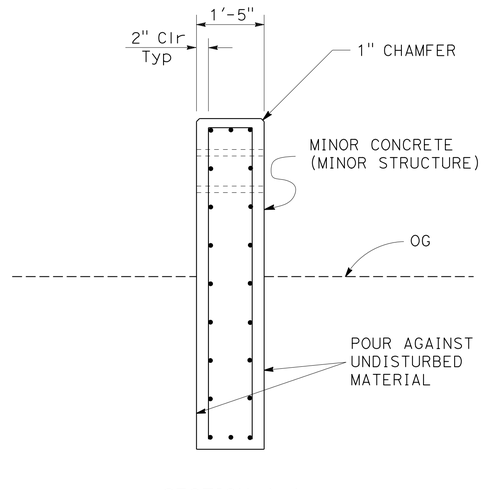

SECTION A-A

CONCRETE ANCHOR BLOCK DETAIL

PM 19.72 COSUMNES RIVER BRIDGE (Br No. 24-0080)

CONSTRUCTION DETAILS

NO SCALE

C-10

REVISED BY | DATE REVISED
JIM FERREIRA | RONALD S. SYKES
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 26-FEB-2013
07-19-10 | TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010 | USERNAME => s125660 | DGN FILE => 03000205181ga010.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	14	34

Kris M. Albers 2-25-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	G20-1[Spec](21)		60" x 30"	ROAD WORK NEXT 21 MILES	2 - 4" x 4"	2
B		C40(Mod)	72" x 42"	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"	36
D	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	35
E	G20-2	C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	2

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

LEGEND

(No.) CONSTRUCTION AREA SIGN LETTER

<CA> CALIFORNIA SIGN CODE

SIGN DETAILS

(A) G20-1[Spec](21)

ROAD WORK
NEXT 21 MILES

6" C SERIES LETTERS

60"X30"

ORANGE BACKGROUND WITH BLACK LEGEND AND BORDERS.

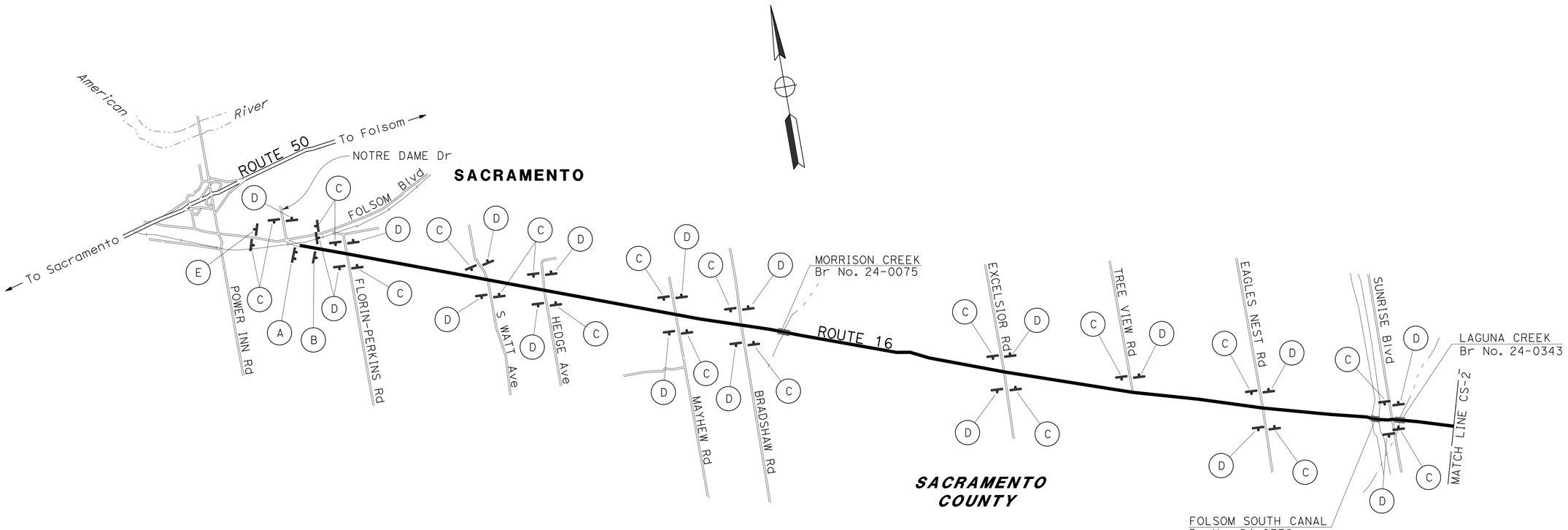
(B) C40(Mod)<CA>

TRAFFIC FINES
DOUBLED IN
WORK ZONES

4" D SERIES LETTERS

48"X36"

RETROREFLECTIVE WHITE BACKGROUND WITH BLACK LEGEND AND BORDERS.



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC

FUNCTIONAL SUPERVISOR: ARSHAD IQBAL

CALCULATED-DESIGNED BY: JACK KEMMERLY
CHECKED BY: KRIS ALBERS

REVISED BY | DATE REVISED

LAST REVISION 1-17-13
DATE PLOTTED => 26-FEB-2013
TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 03000205181a001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0390
PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	15	34

Kris M. Albers 2-25-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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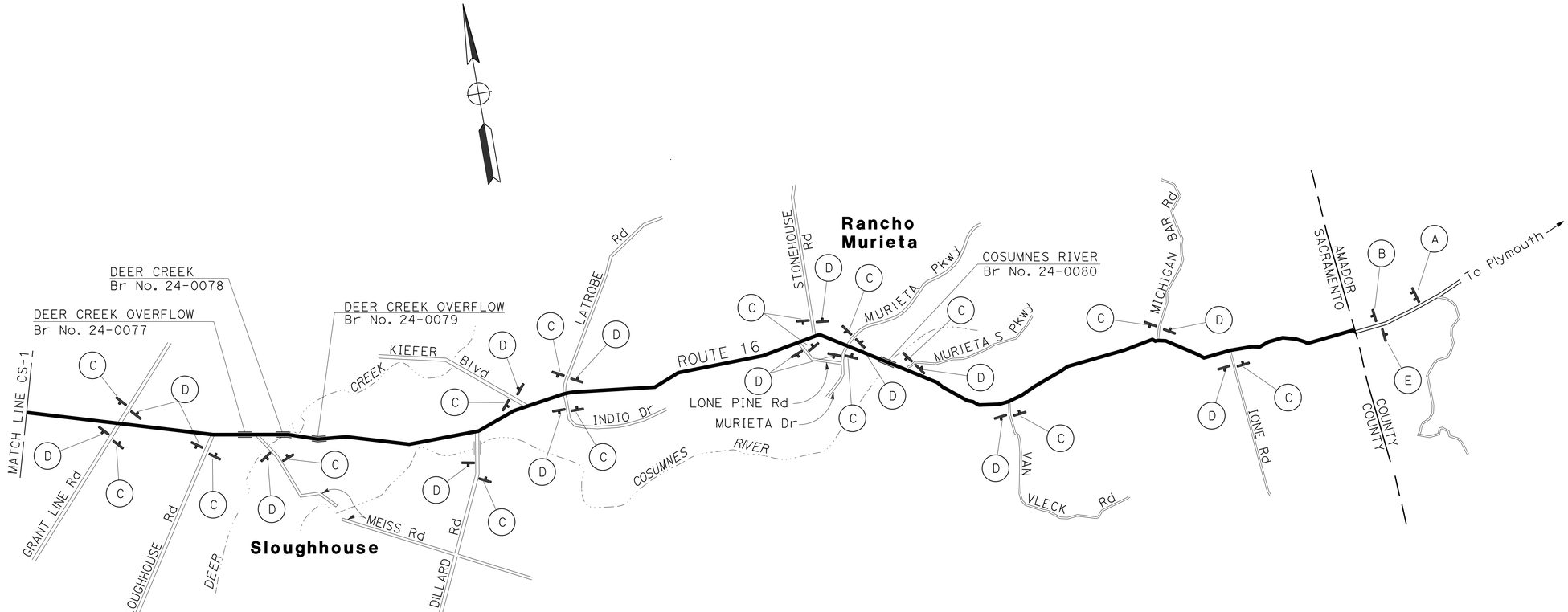

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC

FUNCTIONAL SUPERVISOR: ARSHAD IQBAL
CALCULATED-DESIGNED BY: JACK KEMMERLY
CHECKED BY: KRIS ALBERS
REVISED BY
DATE REVISED

LAST REVISION
DATE PLOTTED => 26-FEB-2013
TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 03000205181a002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0390
PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	16	34

Kris M. Albers 2-25-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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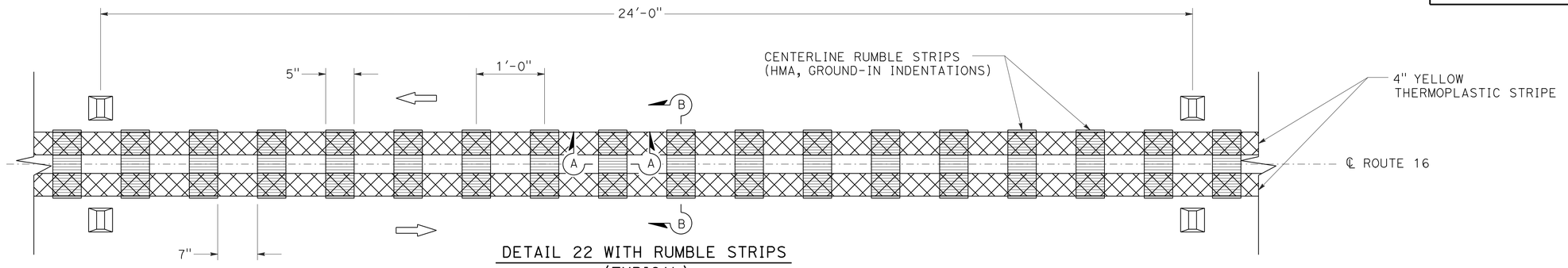
NOTES:

1. CENTERLINE RUMBLE STRIP SHALL BE CONSTRUCTED PRIOR TO INSTALLING FINAL TRAFFIC STRIPES.
2. THIS PLAN ACCURATE FOR CENTERLINE RUMBLE STRIP AND PAVEMENT DELINEATION DETAILS ONLY.

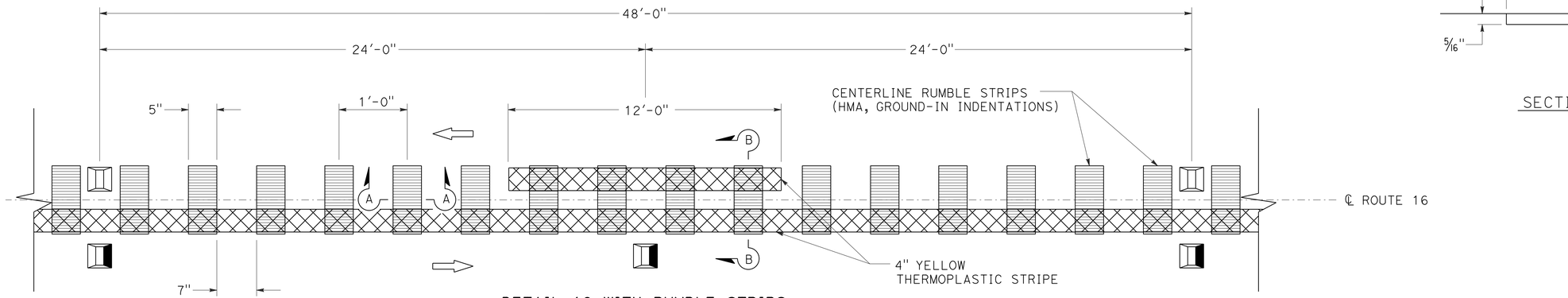
LEGEND

TYPE D TWO-WAY YELLOW PAVEMENT MARKER (RETROREFLECTIVE)

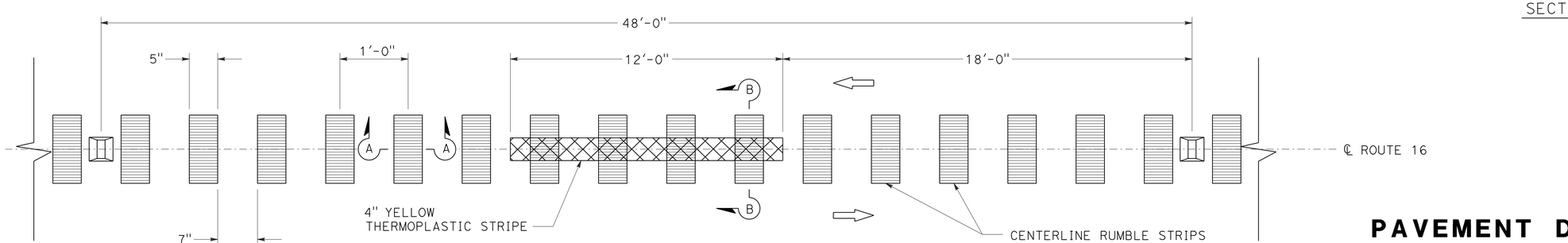
TYPE H ONE-WAY YELLOW PAVEMENT MARKER (RETROREFLECTIVE)



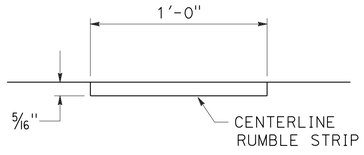
DETAIL 22 WITH RUMBLE STRIPS
(TYPICAL)



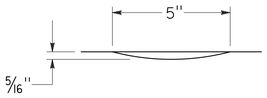
DETAIL 19 WITH RUMBLE STRIPS
(TYPICAL)



DETAIL 6 WITH RUMBLE STRIPS
(TYPICAL)



SECTION B-B



SECTION A-A

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION DETAILS

PDD-1

LAST REVISION 12-6-12
DATE PLOTTED => 26-FEB-2013
TIME PLOTTED => 15:27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ARSHAD IQBAL
CALCULATED-DESIGNED BY:
CHECKED BY: KRIS ALBERS
DRAWN BY: JACK KEMMERLY
REVISED BY
DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => s125660
DGN FILE => 0300020518nb001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0390

PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	17	34

Kris M. Albers 2-25-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
Exp. 6-30-13
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STATE OF CALIFORNIA

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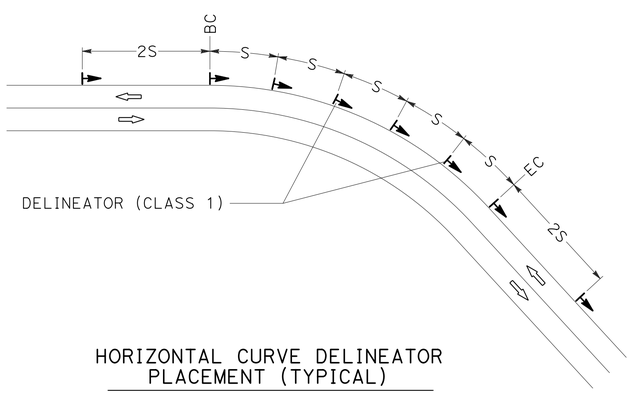
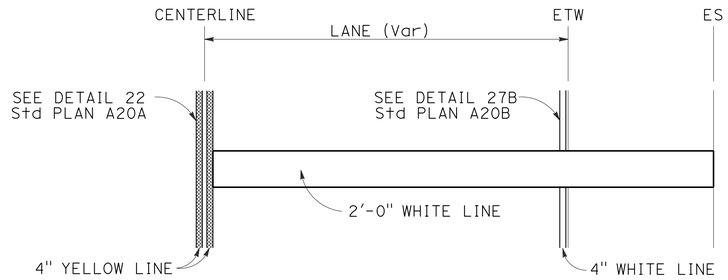


HORIZONTAL CURVE DELINEATOR PLACEMENT (TYPICAL)

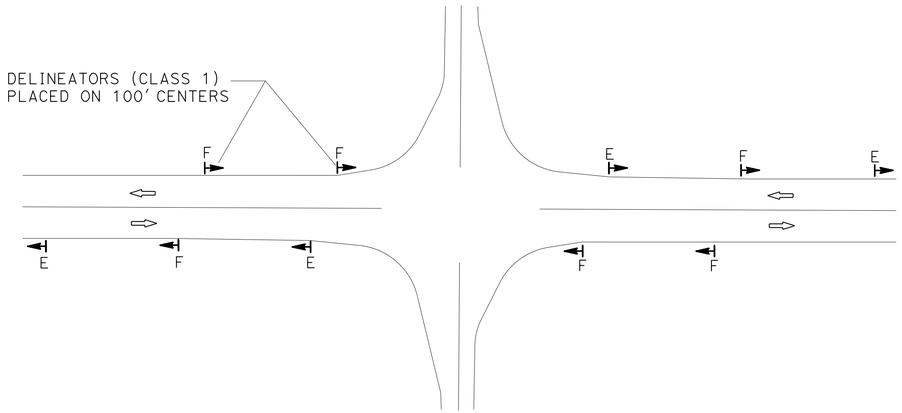
LEGEND

S DELINEATOR SPACING
(TO BE PROVIDED BY THE ENGINEER)



RAILROAD LIMIT LINE

NOTE: THE 2'-0" WIDE RAILROAD LIMIT LINE WILL REPLACE THE EXISTING DOUBLE 1'-0" WIDE LIMIT LINES.



TYPICAL DELINEATOR PLACEMENT AT INTERSECTIONS

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-2

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC
FUNCTIONAL SUPERVISOR: ARSHAD IQBAL
CALCULATED-DESIGNED BY: JACK KEMMERLY
CHECKED BY: KRIS ALBERS
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 26-FEB-2013
12-7-12 TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0300020518nb002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0390
PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	18	34

Kris M. Albers 2-25-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KRIS M. ALBERS
No. 49986
Exp. 6-30-13
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. EWNV = ENHANCED WET NIGHT VISIBILITY.
2. EXACT LOCATION OF DELINEATORS (CLASS 1) TO BE DETERMINED BY THE ENGINEER.
3. FOR ADDITIONAL DELINEATORS (CLASS 1) INFORMATION, SEE PAVEMENT DELINEATION DETAILS.
4. ALL "SCHOOL" PAVEMENT MARKINGS SHALL BE YELLOW.
5. THE 2'-0" WIDE RAILROAD LIMIT LINE WILL REPLACE THE EXISTING DOUBLE 1'-0" WIDE LIMIT LINES. FOR ADDITIONAL INFORMATION, SEE SHEET PDD-1.
6. DO NOT REPLACE THE EXISTING BROKEN RIGHT EDGELINE ADJACENT TO THE WESTBOUND ETW LOCATED BETWEEN PM 16.26± AND PM 16.28±. (EXTEND THE DETAIL 27B WEST FROM PM 16.28± TO THE CROSSWALK.)
7. REMOVE ALL EXISTING TYPE-L OBJECT MARKERS ADJACENT TO BOTH THE EB AND WB EP LOCATED BETWEEN PM 16.12± AND PM 16.49±.

4" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 6-1)

DETAIL NUMBER	LINEAR FEET
40	60
TOTAL	60

4" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 17-7)

DETAIL NUMBER	LINEAR FEET
9	106
TOTAL	106

4" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 36-12)

DETAIL NUMBER	LINEAR FEET
6	28,760
12	4,145
19	17,545
32	12,730
TOTAL	63,180

4" THERMOPLASTIC TRAFFIC STRIPE (EWNV)

DETAIL NUMBER	LINEAR FEET
19	17,545
22	134,310
27B	207,590
27C	4,223
32	12,730
TOTAL	376,398

8" THERMOPLASTIC TRAFFIC STRIPE (EWNV)

DETAIL NUMBER	LINEAR FEET
38	14,058
TOTAL	14,058

8" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 12-3)

DETAIL NUMBER	LINEAR FEET
37B	185
TOTAL	185

PAVEMENT MARKER (RETROREFLECTIVE)

DETAIL NUMBER	TYPE D (EACH)	TYPE G (EACH)	TYPE H (EACH)
6	599		
9		2	
12		86	
19	366		731
22	5,596		
32	663		
37B		12	
38		586	
SUBTOTAL	7,224	686	731
TOTAL	8,641		

THERMOPLASTIC PAVEMENT MARKING (EWNV)

DESCRIPTION	NUMBER	SQUARE FEET
"SCHOOL"	2 @ 35 SQFT	70
"SIGNAL"	17 @ 32 SQFT	544
"AHEAD"	17 @ 31 SQFT	527
"KEEP"	1 @ 24 SQFT	24
"CLEAR"	1 @ 27 SQFT	27
TYPE I(24) ARROW	6 @ 31 SQFT	186
TYPE II ARROW	2 @ 45 SQFT	90
TYPE III ARROW	108 @ 42 SQFT	4,536
TYPE VI ARROW	10 @ 42 SQFT	420
1'-0" CHEVRON (WHITE)	6	75
LIMIT LINE	29	1,242
2'-0" RAILROAD LIMIT LINE	1	40
RAILROAD CROSSING	1 @ 70 SQFT	70
RAILROAD TRANSVERSE LINES	2	48
1'-0" CROSSWALK (WHITE)	33	5,852
1'-0" CROSSWALK (YELLOW)	3	395
TOTAL		14,146

DELINEATOR (CLASS 1)

TYPE	EACH
E	147
F	105
TOTAL	252

REMOVE THERMOPLASTIC TRAFFIC STRIPE

DESCRIPTION	LINEAR FEET
8" CHANNELIZING LINE	23,326
8" LANE DROP PATTERN	74
TOTAL	23,400

REMOVE THERMOPLASTIC PAVEMENT MARKING

DESCRIPTION	NUMBER	SQUARE FEET
"SCHOOL"	2 @ 35 SQFT	70
"SIGNAL"	14 @ 32 SQFT	448
"AHEAD"	14 @ 31 SQFT	434
"KEEP"	1 @ 24 SQFT	24
"CLEAR"	1 @ 27 SQFT	27
TYPE I(24) ARROW	6 @ 31 SQFT	186
TYPE II ARROW	2 @ 45 SQFT	90
TYPE III ARROW	97 @ 42 SQFT	4,074
TYPE VI ARROW	8 @ 42 SQFT	336
1'-0" CHEVRON (WHITE)	6	75
LIMIT LINE	8	335
1'-0" RAILROAD LIMIT LINE	2	40
RAILROAD CROSSING	1 @ 70 SQFT	70
RAILROAD TRANSVERSE LINES	2	48
1'-0" CROSSWALK (WHITE)	13	2,269
1'-0" CROSSWALK (YELLOW)	1	125
TOTAL		8,651

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED
JACK KEMMERLY | KRIS ALBERS
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | ARSHAD IQBAL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | TRAFFIC
Caltrans

LAST REVISION | DATE PLOTTED => 26-FEB-2013 | TIME PLOTTED => 15:27
12-7-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	19	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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PREPAVING GRINDING DAY

POST MILE	SIDE	PREPAVING GRINDING DAY
		EA
2.6 to R23.9	BOTH	5
TOTAL		5

COLD PLANE AC PAVEMENT

POST MILE	SIDE	COLD PLANE ASPHALT CONCRETE PAVEMENT
		SQYD
8.2 to 8.5	BOTH	16,000
13.7 to R16.1	BOTH	38,000
R16.6 to R16.9	BOTH	7,000
R18.2 to R19.1	BOTH	14,000
TOTAL		75,000

REPLACE ASPHALT CONCRETE SURFACING

POST MILE	SIDE	WIDTH (N)	REPLACE ASPHALT CONCRETE SURFACING
			CY
12.67 TO 13.20	R+	6′	156
13.32 TO 13.39	R+	6′	21
13.43 TO 13.49	L+	6′	18
13.56 TO 13.63	R+	6′	21
13.65 TO 13.73	L+	6′	24
R14.70 TO R17.73	R+	6′	10
R15.05 TO R15.09	L+	6′	12
R15.63 TO R15.68	R+	6′	15
R15.76 TO R15.79	L+	6′	10
R15.82 TO R15.88	R+	6′	18
R15.91 TO R15.92	L+	6′	3
R15.98 TO R16.04	R+	6′	20
R18.18 TO R18.20	L+	6′	7
R18.56 TO R18.58	L+	6′	7
R18.74 TO R18.76	L+	6′	7
R18.93 TO R18.97	R+	6′	12
R18.98 TO R19.00	R+	6′	7
R19.04 TO R19.06	L+	6′	7
21.29 TO 21.34	L+	12′	29
R21.89 TO R21.92	L+	12′	18
TOTAL			422

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

RUMBLE STRIP

POST MILE	SIDE	SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)
		STA	STA
6.2 to R23.9	BOTH		940
9.3 to 19.6	BOTH	1,088	
20.4 to R23.9	BOTH	372	
TOTAL		1,460	940

CONCRETE ANCHOR BLOCK

LOCATION	POST MILE	SIDE	MINOR CONCRETE (MINOR STRUCTURE)
			CY
MORRISON CREEK BRIDGE	6.64	BOTH	3.02
MORRISON CREEK BRIDGE	6.65	BOTH	3.02
FOLSOM SOUTH CANAL BRIDGE	T11.35	R+	1.50
FOLSOM SOUTH CANAL BRIDGE	T11.37	BOTH	3.00
LAGUNA CREEK BRIDGE	R11.53	BOTH	3.02
LAGUNA CREEK BRIDGE	R11.54	BOTH	3.02
DEER CREEK OVERFLOW BRIDGE	13.92	BOTH	3.12
DEER CREEK OVERFLOW BRIDGE	13.94	BOTH	3.12
DEER CREEK BRIDGE	14.14	R+	1.56
DEER CREEK BRIDGE	14.17	BOTH	3.12
DEER CREEK OVERFLOW BRIDGE	14.37	BOTH	3.12
DEER CREEK OVERFLOW BRIDGE	14.38	BOTH	3.12
COSUMNES RIVER BRIDGE	19.72	BOTH	3.02
COSUMNES RIVER BRIDGE	19.76	BOTH	3.02
TOTAL			39.78

ROADWAY QUANTITITES

POST MILE	SIDE	SHOULDER BACKING	CRACK TREATMENT	HOT MIX ASPHALT (BONDED WEARING COURSE-GAP GRADED)	ASPHALTIC EMULSION MEMBRANE (BONDED WEARING COURSE)
		TON	LNMI	TON	TON
2.6 to R23.9	BOTH	5,200	50	23,000	480
TOTAL		5,200	50	23,000	480

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED
JIM FERREIRA | RONALD S. SYKES
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 07-19-10 | DATE PLOTTED => 26-FEB-2013 | TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010 | USERNAME => s125660 | DGN FILE => 0300020518pa001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	20	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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HMA DIKE

POST MILE	SIDE	LOCATION	REMOVE ASPHALT CONCRETE DIKE	PLACE HOT MIX ASPHALT DIKE				MINOR HOT MIX ASPHALT
				(TYPE A)	(TYPE C)	(TYPE E)	(TYPE F)	
			LF	LF	LF	LF	LF	TON
T11.34 TO T11.35	L†	FOLSOM SOUTH CANAL BRIDGE	85		85		25	1.0
T11.34 TO T11.35	R†	FOLSOM SOUTH CANAL BRIDGE	90		90		25	1.0
12.06 TO 12.21	L†		790			790		20.7
12.94 to 13.11	L†		900			900		24.5
12.98 to 13.07	R†		480	480				13.0
13.41 to 13.52	L†		580	580				15.8
13.58 to 13.78	L†		1,060	1,060				28.9
R15.60 to R15.68	R†		420			420		11.0
R15.65 to R15.72	L†		370			370		9.8
R16.19 to R16.28	R†		480			480		12.6
R16.32 to R16.35	L†		220	220				6.0
R16.72 to R16.82	R†		530			530		13.8
R16.83 to R17.03	R†		1,060	1,060				28.9
R17.13 to R17.20	R†		370			370		9.8
R17.20 to R17.38	L†		950	950				25.9
R17.20 to R17.33	R†		690	690				18.8
R17.39 to R17.47	R†		420	420				11.4
R17.42 to R17.55	L†		690	690				18.8
R17.63 to R17.88	L†		1,320			1,320		34.7
R17.83 to R18.10	R†		1,440	1,440				39.0
R17.88 to R18.14	L†		1,380	1,380				37.8
R18.78 to R18.88	L†		530			530		13.8
R19.19 to 19.42	R†		1,220	1,220				33.3
R19.24 to 19.48	L†		1,270	1,270				34.7
19.41 TO 19.42	R†	BOX CULVERT	125		50			0.4
19.42 TO 19.43	R†	BOX CULVERT					75	1.0
19.70 TO 19.71	L†	COSUMNES RIVER BRIDGE	90		90			0.7
19.70 TO 19.71	R†	COSUMNES RIVER BRIDGE	90		90			0.7
19.71 TO 19.72	L†	COSUMNES RIVER BRIDGE					25	0.3
19.71 TO 19.72	R†	COSUMNES RIVER BRIDGE					25	0.3
19.90 to 19.93	R†		160			160		4.2
19.92 to 19.98	L†		320			320		8.4
20.72 to 20.80	L†		430	430				11.6
20.72 to 20.80	R†		430	430				11.6
21.18 to 21.23	R†		270	270				7.4
21.65 to 21.70	R†		270	270				7.4
21.70 to R21.78	R†		430			430		11.2
R22.69 to R22.80	L†		590			590		15.4
R22.73 to R22.85	R†		640			640		16.8
R22.85 to R23.21	L†		1,900			1,900		50.1
R22.86 to R22.93	R†		430			430		11.2
R22.93 to R23.60	R†		3,540	3,540				96.0
R23.24 to R23.59	L†		1,850			1,850		48.7
R23.78 to R23.85	L†		370			370		9.6
TOTAL			28,800	16,400	405	12,400	175	778.0

REVISED BY | DATE REVISED
JIM FERREIRA | RONALD S. SYKES
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

SUMMARY OF QUANTITIES

Q-2

LAST REVISION | DATE PLOTTED => 26-FEB-2013
07-19-10 | TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010 | USERNAME => s125660 | DGN FILE => 0300020518pa002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	21	34

Jim Ferreira 1-15-13
REGISTERED CIVIL ENGINEER DATE

2-25-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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METAL BEAM GUARD RAILING

LOCATION	BRIDGE NUMBER	POST MILE	SIDE	MBGR LAYOUT	TREATED WOOD WASTE	REMOVE METAL BEAM GUARD RAILING	REMOVE BRIDGE RAILING	(N) REMOVE STEEL ANCHOR POST ASSEMBLY	(N) REMOVE CONCRETE FOOTING	OBJECT MARKER (TYPE L-1)	METAL BEAM GUARD RAILING (WOOD POST)	TRANSITION RAILING (TYPE WB)	END ANCHOR ASSEMBLY (TYPE SFT)	ALTERNATIVE FLARED TERMINAL SYSTEM
					LB	LF	LF	LF	LF	EA	LF	EA	EA	EA
MORRISON CREEK BRIDGE	24-0075	6.63	L+	12B			50	1	1		25	1	1	
MORRISON CREEK BRIDGE	24-0075	6.64	R+	12B			50	1	1	1		1		1
MORRISON CREEK BRIDGE	24-0075	6.65	L+	12B			50	1	1	1		1		1
MORRISON CREEK BRIDGE	24-0075	6.66	R+	12B			50	1	1		25	1	1	
FOLSOM SOUTH CANAL BRIDGE	24-0336	T11.34	L+	SPECIAL	839	65					75		1	
FOLSOM SOUTH CANAL BRIDGE	24-0336	T11.35	R+	SPECIAL	645	50				1	50	1	1	
FOLSOM SOUTH CANAL BRIDGE	24-0336	R11.37	L+	12B	645	50				1		1		1
FOLSOM SOUTH CANAL BRIDGE	24-0336	R11.38	R+	12B	839	65					37.5	1	1	
LAGUNA CREEK BRIDGE	24-0343	R11.52	L+	12B	839	65					37.5	1	1	
LAGUNA CREEK BRIDGE	24-0343	R11.53	R+	12B	839	65				1		1		1
LAGUNA CREEK BRIDGE	24-0343	R11.54	L+	12B	839	65				1		1		1
LAGUNA CREEK BRIDGE	24-0343	R11.55	R+	12B	839	65					37.5	1	1	
BOX CULVERT		12.42	R+	11B	1,804	140				1	100		1	
DEER CREEK OVERFLOW BRIDGE	24-0077	13.91	L+	12B	839	65					37.5	1	1	
DEER CREEK OVERFLOW BRIDGE	24-0077	13.92	R+	12B	839	65				1		1		1
DEER CREEK OVERFLOW BRIDGE	24-0077	13.94	L+	12B	839	65				1		1		1
DEER CREEK OVERFLOW BRIDGE	24-0077	13.95	R+	12B	839	65					37.5	1	1	
DEER CREEK BRIDGE	24-0078	14.13	L+	SPECIAL	839	65					75		1	
DEER CREEK BRIDGE	24-0078	14.14	R+	12B	839	65				1		1		1
DEER CREEK BRIDGE	24-0078	14.17	L+	12B	839	65				1		1		1
DEER CREEK BRIDGE	24-0078	14.18	R+	12B	839	65					37.5	1	1	
DEER CREEK OVERFLOW BRIDGE	24-0079	14.36	L+	12B	839	65					37.5	1	1	
DEER CREEK OVERFLOW BRIDGE	24-0079	14.37	R+	12B	968	75				1		1		1
DEER CREEK OVERFLOW BRIDGE	24-0079	14.38	L+	12B	968	75				1		1		1
DEER CREEK OVERFLOW BRIDGE	24-0079	14.39	R+	12B	839	65					37.5	1	1	
BOX CULVERT		19.42	R+	11B	1,290	100				1	75		1	
COSUMNES RIVER BRIDGE	24-0080	19.71	L+	12B	839	65					37.5	1	1	1
COSUMNES RIVER BRIDGE	24-0080	19.72	R+	12B	839	65				1		1		1
COSUMNES RIVER BRIDGE	24-0080	19.76	R+	12B	839	65				1		1		1
COSUMNES RIVER BRIDGE	24-0080	19.77	L+	12B	839	65					37.5	1	1	1
TOTAL					23,102	1,790	200			16	737.5	28	17	15

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

SUMMARY OF QUANTITIES

Q-3

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

LAST REVISION 07-19-10
DATE PLOTTED => 26-FEB-2013
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BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0300020518pa003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000205181

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03	Sac	16	2.6/R23.9	22	34

Jim Ferreira 1-15-13
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2-25-13
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JIM FERREIRA
No. 48257
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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TEMPORARY TRAFFIC CONTROL

LOCATION	BRIDGE NUMBER	POST MILE	SIDE	TEMPORARY CRASH CUSHION MODULE	CHANNELIZER (SURFACE MOUNTED)
				EA	EA
MORRISON CREEK BRIDGE	24-0075	6.63	L†	14	6
MORRISON CREEK BRIDGE	24-0075	6.64	R†	14	6
MORRISON CREEK BRIDGE	24-0075	6.65	L†	14	6
MORRISON CREEK BRIDGE	24-0075	6.66	R†	14	6
FOLSOM SOUTH CANAL BRIDGE	24-0336	T11.34	L†	14	6
FOLSOM SOUTH CANAL BRIDGE	24-0336	T11.35	R†	14	6
FOLSOM SOUTH CANAL BRIDGE	24-0336	R11.37	L†	14	6
FOLSOM SOUTH CANAL BRIDGE	24-0336	R11.38	R†	14	6
LAGUNA CREEK BRIDGE	24-0343	R11.52	L†	14	6
LAGUNA CREEK BRIDGE	24-0343	R11.53	R†	14	6
LAGUNA CREEK BRIDGE	24-0343	R11.54	L†	14	6
LAGUNA CREEK BRIDGE	24-0343	R11.55	R†	14	6
BOX CULVERT		12.42	R†	14	6
DEER CREEK OVERFLOW BRIDGE	24-0077	13.91	L†	14	6
DEER CREEK OVERFLOW BRIDGE	24-0077	13.92	R†	14	6
DEER CREEK OVERFLOW BRIDGE	24-0077	13.94	L†	14	6
DEER CREEK OVERFLOW BRIDGE	24-0077	13.95	R†	14	6
DEER CREEK BRIDGE	24-0078	14.13	L†	14	6
DEER CREEK BRIDGE	24-0078	14.14	R†	14	6
DEER CREEK BRIDGE	24-0078	14.17	L†	14	6
DEER CREEK BRIDGE	24-0078	14.18	R†	14	6
DEER CREEK OVERFLOW BRIDGE	24-0079	14.36	L†	14	6
DEER CREEK OVERFLOW BRIDGE	24-0079	14.37	R†	14	6
DEER CREEK OVERFLOW BRIDGE	24-0079	14.38	L†	14	6
DEER CREEK OVERFLOW BRIDGE	24-0079	14.39	R†	14	6
BOX CULVERT		19.42	R†	14	6
COSUMNES RIVER BRIDGE	24-0080	19.71	L†	14	6
COSUMNES RIVER BRIDGE	24-0080	19.72	R†	14	6
COSUMNES RIVER BRIDGE	24-0080	19.76	R†	14	6
COSUMNES RIVER BRIDGE	24-0080	19.77	L†	14	6
TOTAL				420	180

SUMMARY OF QUANTITIES

Q-4

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

LAST REVISION DATE PLOTTED => 26-FEB-2013
07-19-10 TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0300020518pa004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	23	34

H. Golban 2-11-13
REGISTERED ELECTRICAL ENGINEER DATE

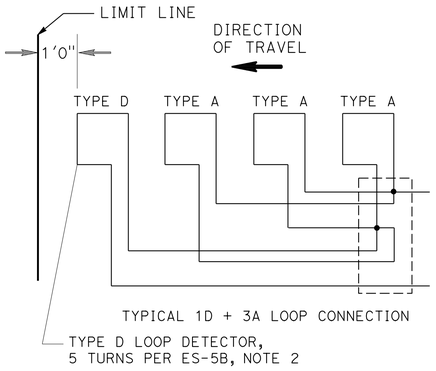
2-25-13
PLANS APPROVAL DATE

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.

GENERAL NOTES:

1. INSTALL TYPE D IN COMBINATION WITH TYPE A LOOPS TO REPLACE TRAFFIC SIGNAL FRONT LOOPS WHERE INDICATED, SEE DETAIL Z ON THIS SHEET FOR LOOP WIRES CONNECTION.
2. RC LOOP WIRES IN CONDUITS BETWEEN HANDHOLE AND PULL BOX OF ABANDONED LOOPS.
3. AB Exist LOOPS AND INSTALL NEW LOOPS AS SHOWN.



DETAIL Z

ABBREVIATION:

CS COUNT STATION

ELECTRICAL ELEMENTS SCHEDULE

LOCATION	Approx PM	DIRECTION	INTERSECTION	ELEMENT	COMMENTS
①	R8.34	EB/WB	Sac 16	TRAFFIC SIGNAL FRONT, MIDDLE AND ADVANCED LOOPS	REPLACE LOOPS SEE DETAIL A, SHEET E-2
		NB/SB	EXCELSIOR RD	TRAFFIC SIGNAL FRONT LOOPS	
②	R11.54	EB	SUNRISE BLVD	TMS (COUNT/DEPARTING LOOP)	REPLACE LOOP SEE DETAIL D, SHEET E-4
③	R12.54	WB	GRANT LINE RD	TRAFFIC SIGNAL ADVANCED LOOPS	REPLACE LOOPS SEE DETAIL B, SHEET E-3
④	R16.00	EB/WB	Sac 16	TRAFFIC SIGNAL FRONT, MIDDLE AND ADVANCED LOOPS	REPLACE LOOPS SEE DETAIL C, SHEET E-3
		NB	DILLARD RD	TRAFFIC SIGNAL FRONT LOOPS	
⑤	R16.92	EB/WB	LATROBE RD (APPROXIMATELY 630' DUE EAST OF INTERSECTION)	TMS (COUNT)	INSTALL NEW LOOPS SEE DETAIL E, SHEET E-5

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL LOCATIONS, DETAILS, AND NOTES

NO SCALE

E-1

REVISED BY | DATE REVISED

JAMIE KOJAK | HABIB GOLBAN
CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: NELSON LEE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DEIGN

LAST REVISION 02-13-13
DATE PLOTTED => 26-FEB-2013
TIME PLOTTED => 15:27

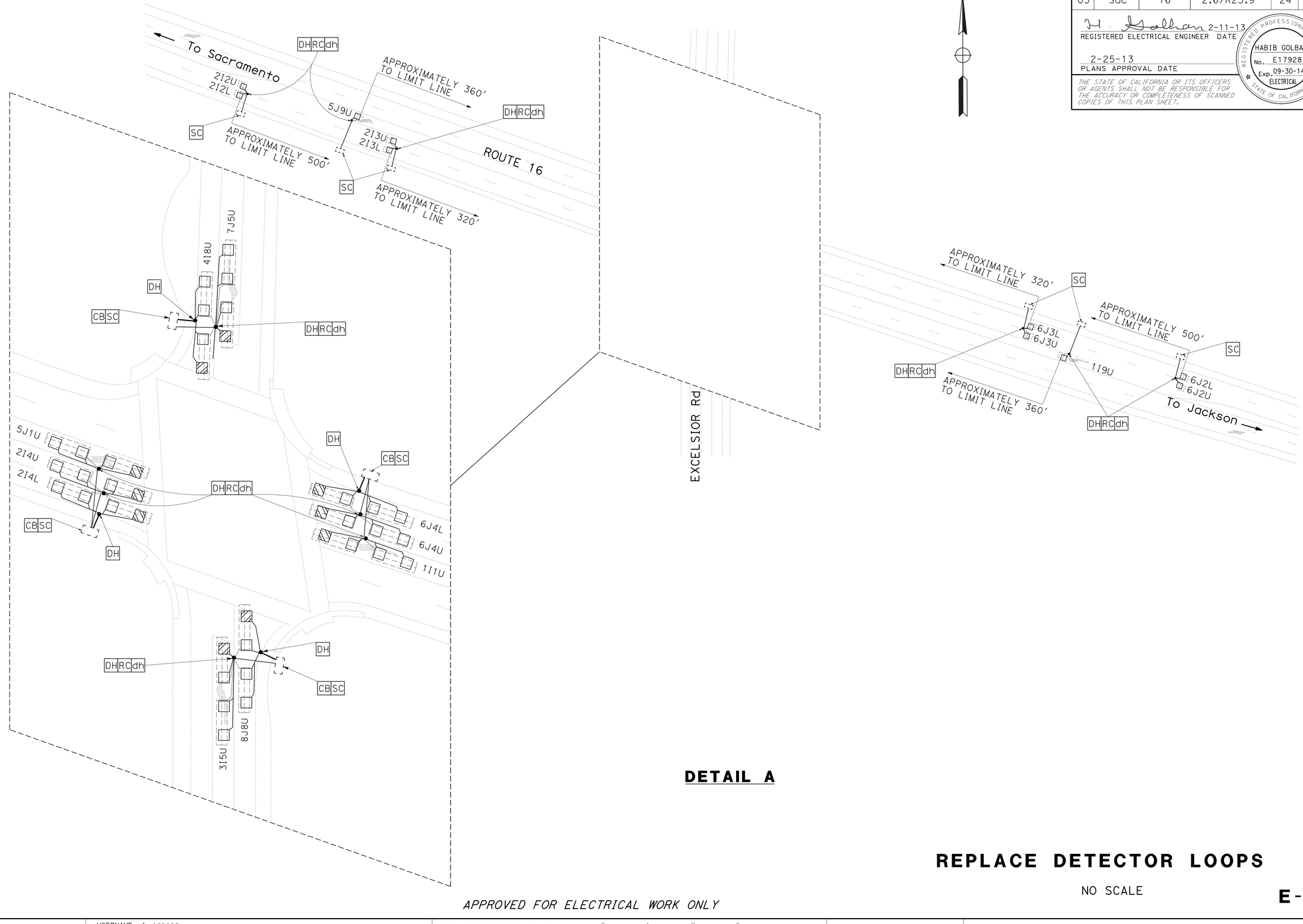
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	24	34

H. Golban 2-11-13
REGISTERED ELECTRICAL ENGINEER DATE

2-25-13
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.



DETAIL A

REPLACE DETECTOR LOOPS

NO SCALE

E-2

APPROVED FOR ELECTRICAL WORK ONLY

CALCULATED-DESIGNED BY			
CHECKED BY			
REVISED BY			
DATE REVISED			
JAMIE KOJAK			
HABIB GOLBAN			
FUNCTIONAL SUPERVISOR			
NELSON LEE			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			
Caltrans® ELECTRICAL DEIGN			

LAST REVISION DATE PLOTTED => 26-FEB-2013
TIME PLOTTED => 15:27
02-13-13

BORDER LAST REVISED 7/2/2010

USERNAME => s125660
DGN FILE => 0300020518ua002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0403

PROJECT NUMBER & PHASE 03000205181

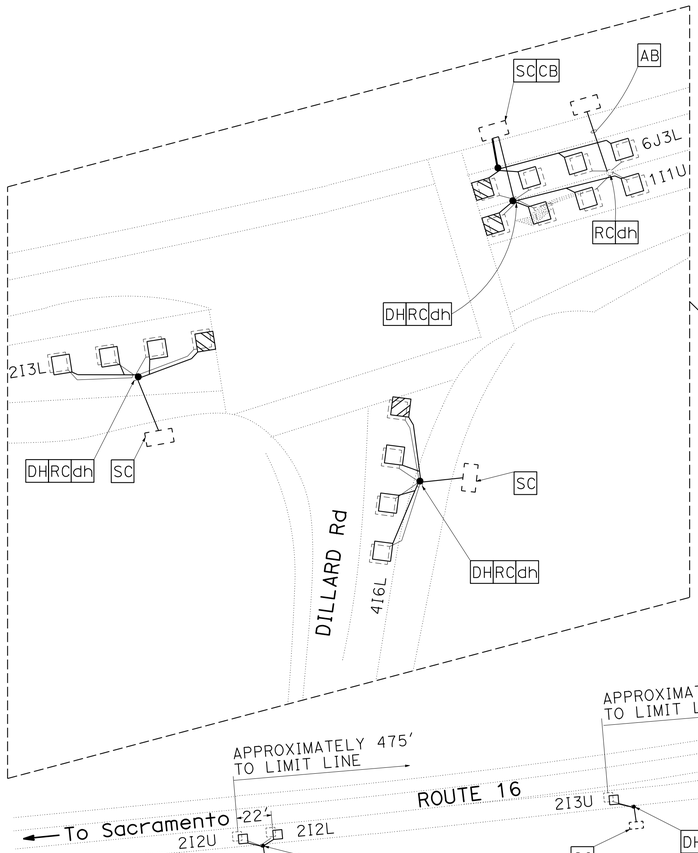
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	25	34

H. Golban 2-11-13
REGISTERED ELECTRICAL ENGINEER DATE

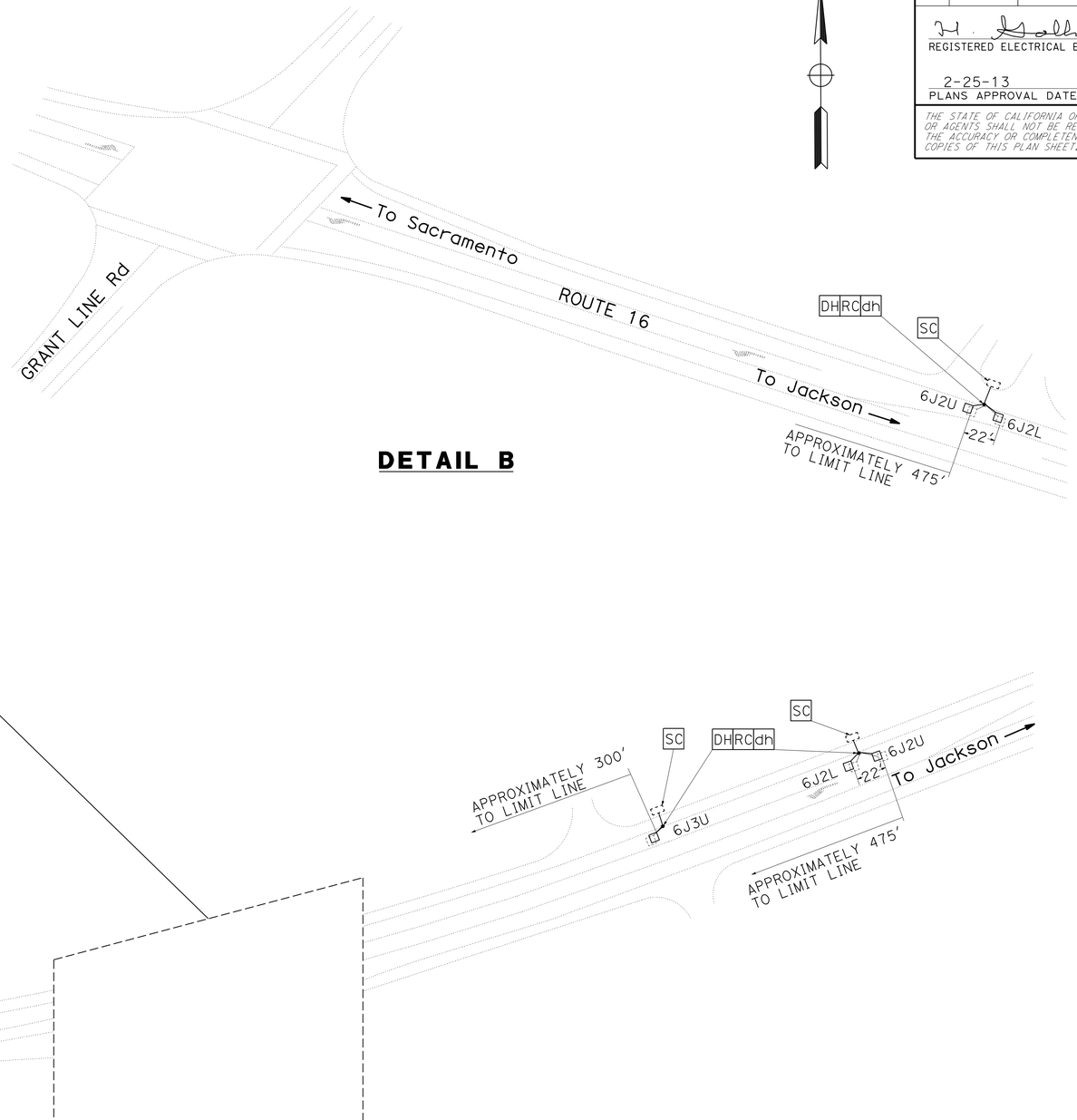
2-25-13
PLANS APPROVAL DATE

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.



DETAIL C



DETAIL B

REPLACE DETECTOR LOOPS

NO SCALE

E-3

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ELECTRICAL DEIGN
Caltrans

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

LAST REVISION | DATE PLOTTED => 26-FEB-2013
02-13-13 | TIME PLOTTED => 15:27

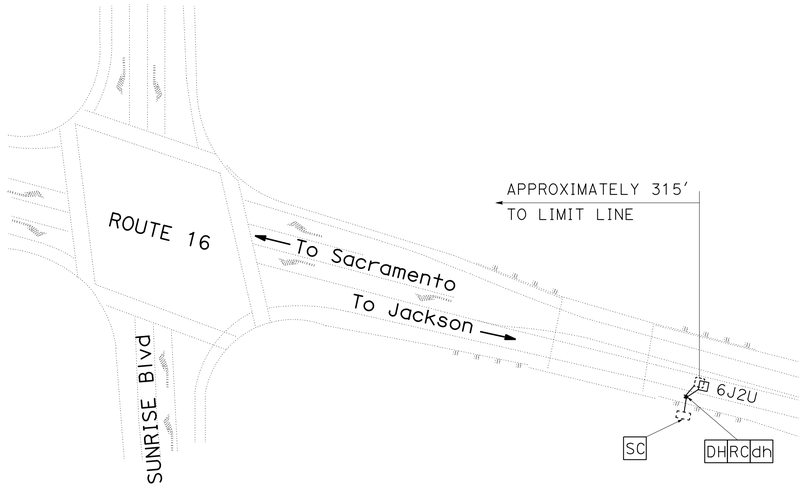
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	26	34

H. Golban 2-11-13
REGISTERED ELECTRICAL ENGINEER DATE

2-25-13
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.



DETAIL D

MODIFY TRAFFIC MONITORING STATION (COUNT)

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

E-4

CALCULATED-DESIGNED BY	REVISED BY
CHECKED BY	DATE REVISED
JAMIE KOJAK	
HABIB GOLBAN	

FUNCTIONAL SUPERVISOR: NELSON LEE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
ELECTRICAL DEIGN

LAST REVISION | DATE PLOTTED => 26-FEB-2013
02-13-13 | TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010

USERNAME => s125660
DGN FILE => 0300020518ua004.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0403

PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	27	34

H. Golban 2-11-13
REGISTERED ELECTRICAL ENGINEER DATE

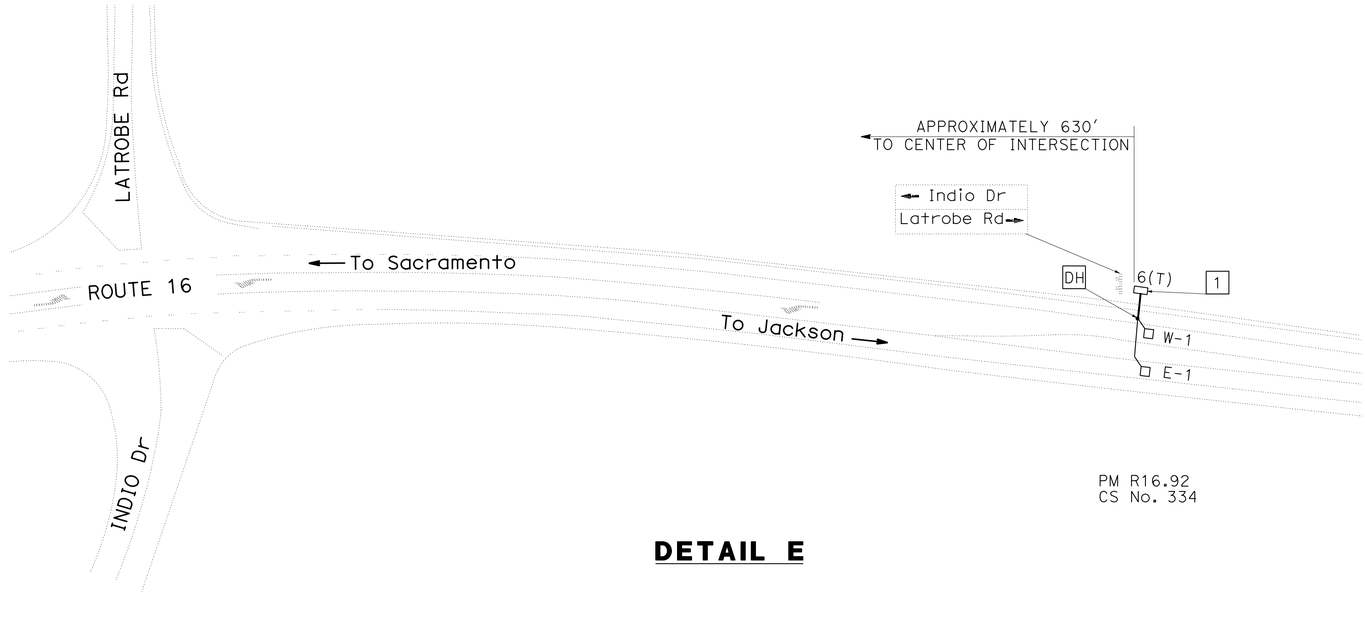
2-25-13
PLANS APPROVAL DATE

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.

LEGEND (THIS SHEET ONLY):

[1] PULL BOX SHALL BE A MINIMUM OF 20' FROM ETW.



PM R16.92
CS No. 334

DETAIL E

TRAFFIC MONITORING STATION (COUNT)

NO SCALE

E-5

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DEIGN

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

LAST REVISION | DATE PLOTTED => 26-FEB-2013 | 02-13-13 | TIME PLOTTED => 15:27

BORDER LAST REVISED 7/2/2010
USERNAME => s125660
DGN FILE => 0300020518ua005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0403
PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	28	34

H. Golban 2-11-13
REGISTERED ELECTRICAL ENGINEER DATE

2-25-13
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.

REPLACE LOOP DETECTORS

SHEET No.	(N) TRENCH IN PAVEMENT METHOD 12" DEEP	(N) 2" TYPE 3 CONDUIT	(N) DETECTOR HANDHOLE	(N) RC EXISTING DETECTOR HANDHOLE	(N) 2" TERMINATE TYPE 3 CONDUIT	(N) INSTALL NEW CONDUIT IN Exist PULL BOX	(N) SPLICE NEW TO EXISTING CONDUCTOR	(N) TYPE A LOOP	(N) TYPE D LOOPS
	FT	FT	EA	EA	EA	EA	EA	EA	EA
E-2	50	50	14	12	4	4	20	39	10
E-3	10	10	9	9	1	1	12	20	4

MODIFY TRAFFIC MONITORING STATION (COUNT)

SHEET No.	(N) DETECTOR HANDHOLE	(N) RC EXISTING DETECTOR HANDHOLE	(N) SPLICE NEW TO EXISTING CONDUCTOR	(N) TYPE A LOOP
	EA	EA	EA	EA
E-4	1	1	1	1

TRAFFIC MONITORING STATION (COUNT)

SHEET No.	(N) DETECTOR HANDHOLE	(N) No. 6 TRAFFIC PULL BOX	(N) TRENCH IN PAVEMENT METHOD 12" DEEP	(N) TYPE A LOOP
	EA	EA	FT	EA
E-5	1	1	20	2

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

ELECTRICAL QUANTITIES

E-6

APPROVED FOR ELECTRICAL WORK ONLY

REVISED BY | DATE REVISED
JAMIE KOJAK | HABIB GOLBAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: NELSON LEE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

LAST REVISION 02-13-13 | DATE PLOTTED => 26-FEB-2013 | TIME PLOTTED => 15:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	29	34

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

2-25-13
PLANS APPROVAL DATE

Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
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.

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

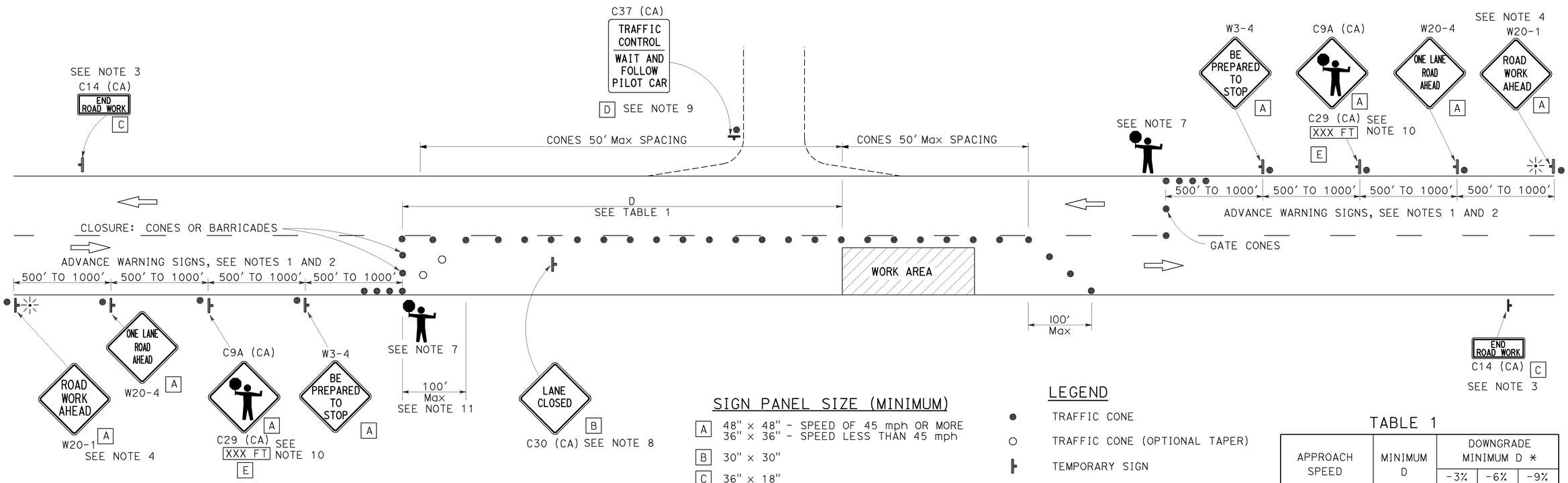
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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

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

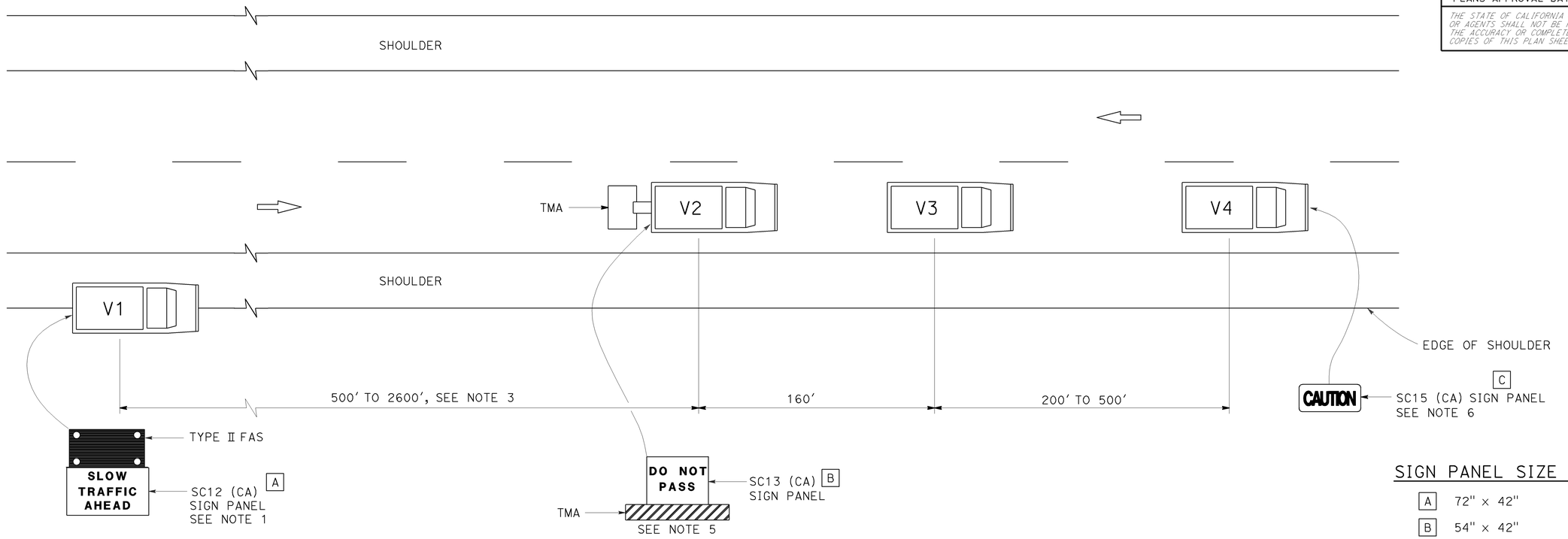
BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => tcs13.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	30	34

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

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

2-25-13
PLANS APPROVAL DATE



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-2

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

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

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => tcs17.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000205181

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	31	34

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

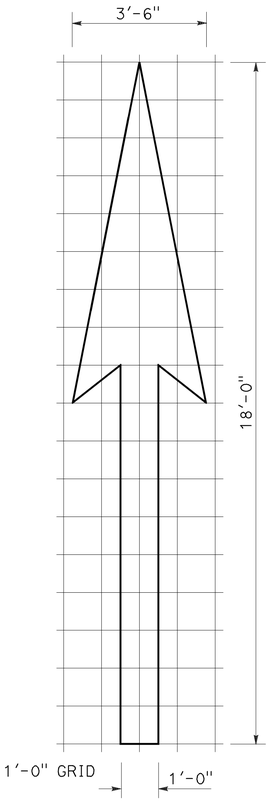
April 20, 2012
PLANS APPROVAL DATE

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.

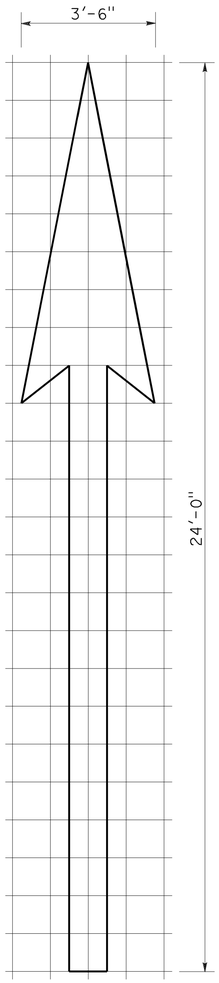
TO ACCOMPANY PLANS DATED 2-25-13

2010 REVISED STANDARD PLAN RSP A24A



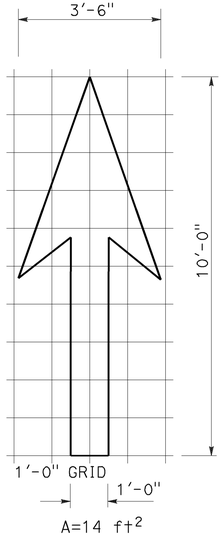
A=25 ft²

TYPE I 18'-0" ARROW



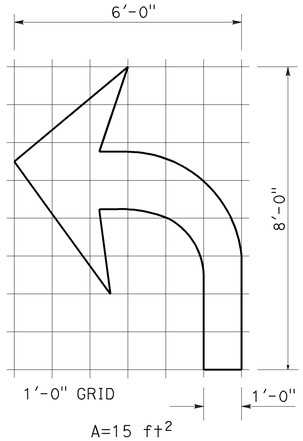
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

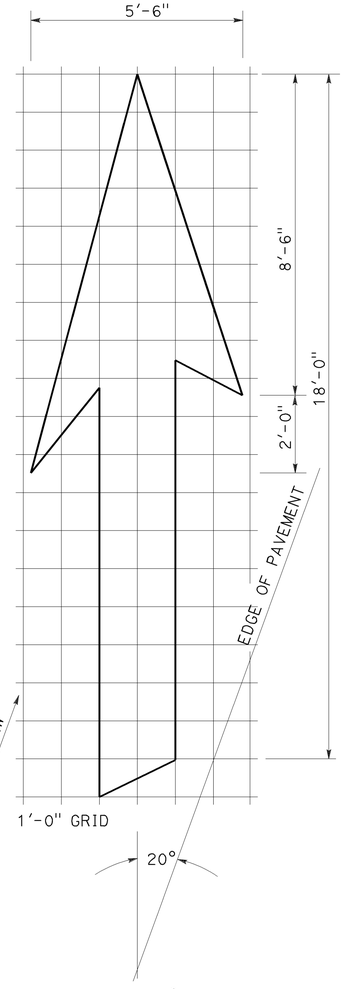
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

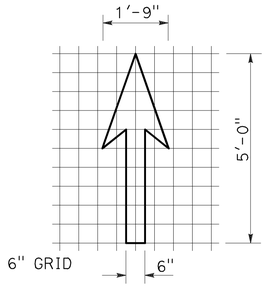
(For Type IV (R) arrow, use mirror image)



A=42 ft²

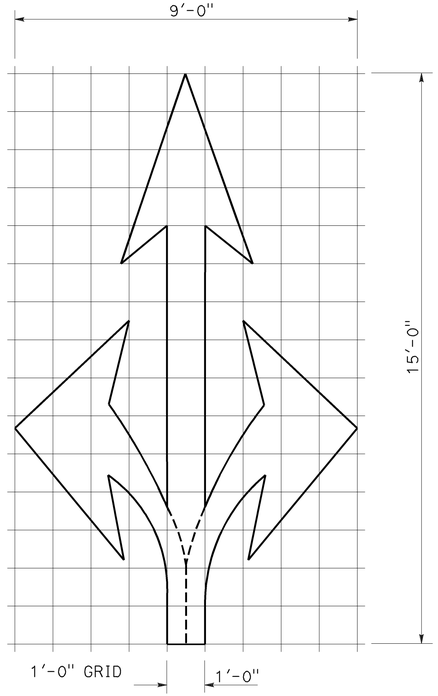
TYPE VI ARROW

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



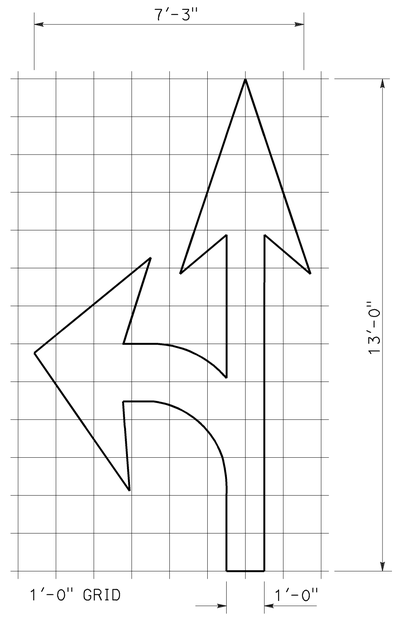
A=3.5 ft²

BIKE LANE ARROW



A=36 ft²

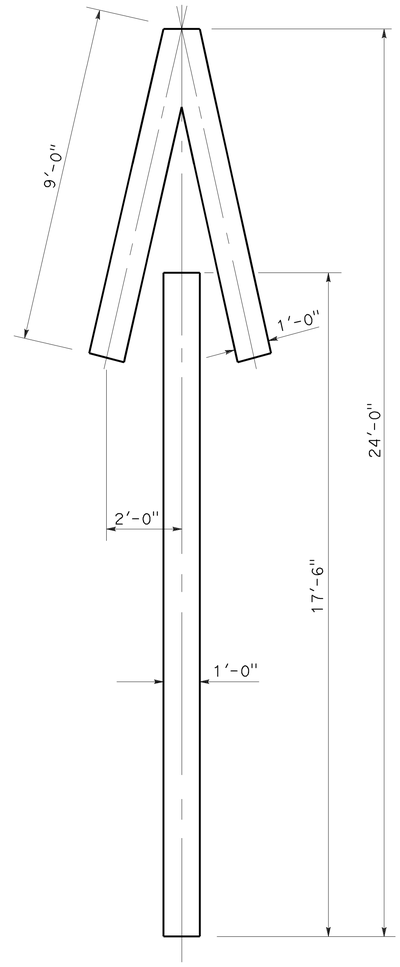
TYPE VIII ARROW



A=27 ft²

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft²

TYPE V ARROW

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

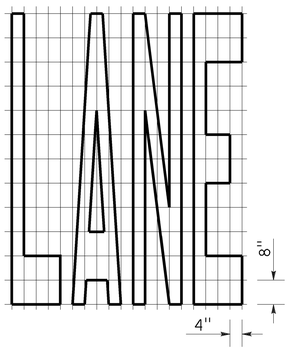
PAVEMENT MARKINGS ARROWS

NO SCALE

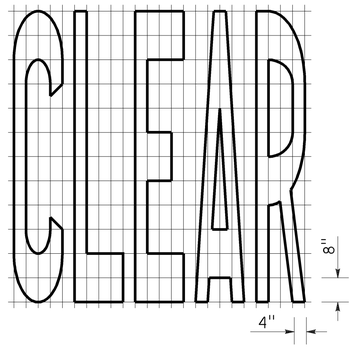
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

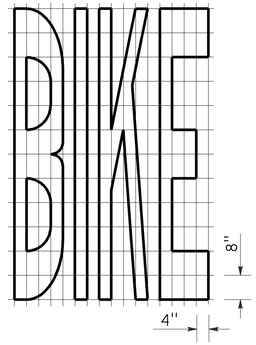
3-14-12



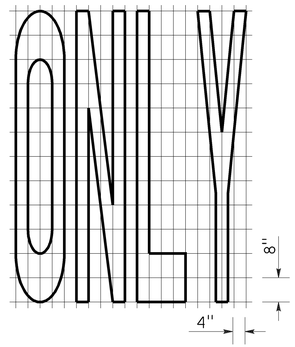
A=24 ft²



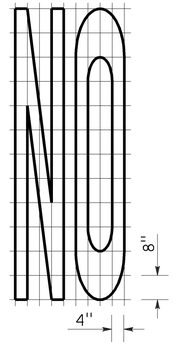
A=27 ft²



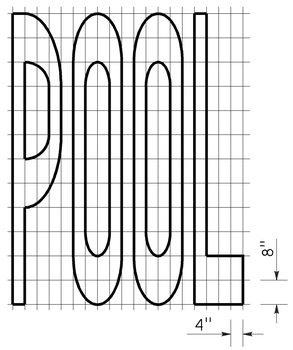
A=21 ft²



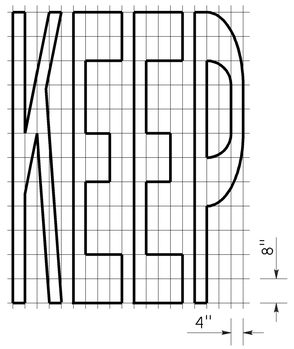
A=22 ft²



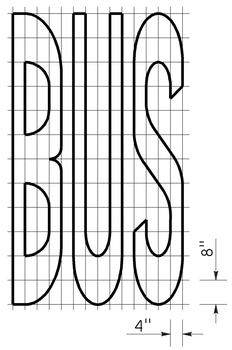
A=14 ft²



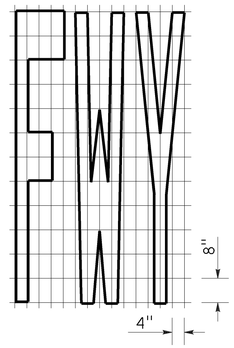
A=23 ft²



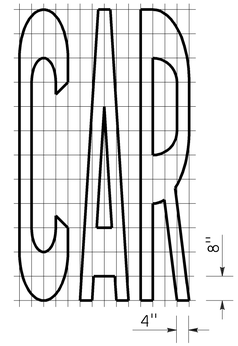
A=24 ft²



A=20 ft²

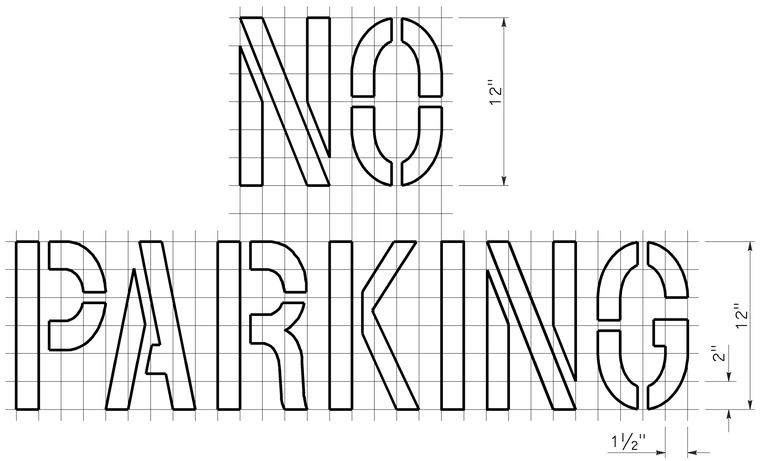


A=16 ft²



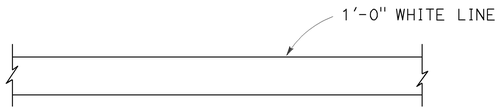
A=17 ft²

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

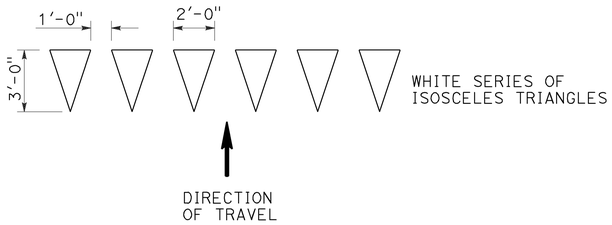


A=2 ft²

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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	32	34

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

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 2-25-13

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	Sac	16	2.6/R23.9	33	34

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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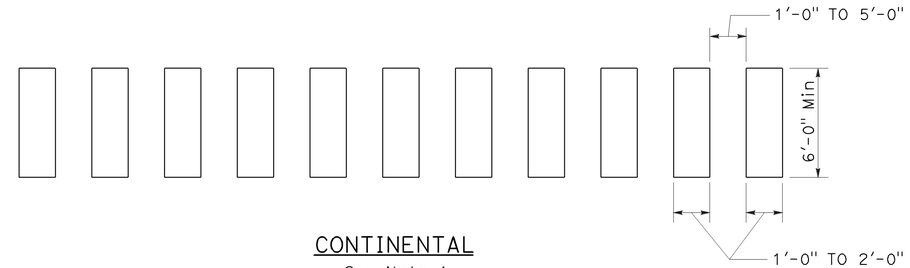
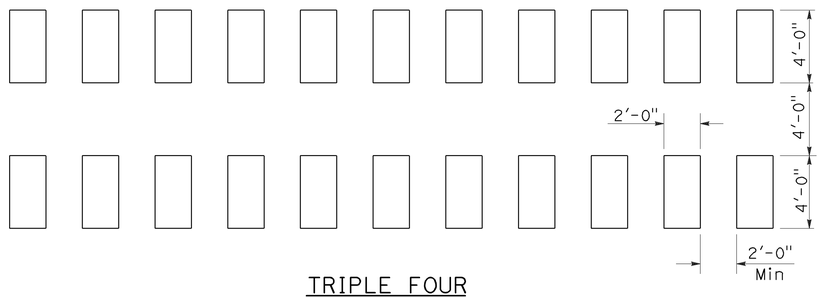
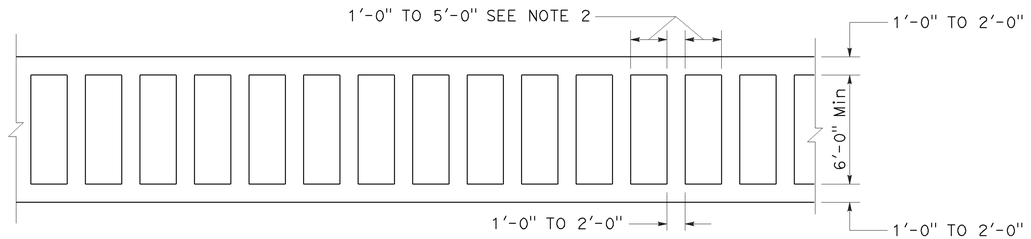
TO ACCOMPANY PLANS DATED 2-25-13



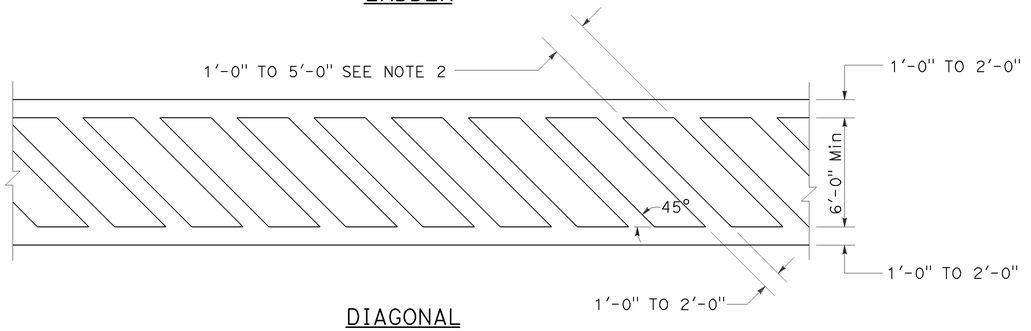
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER

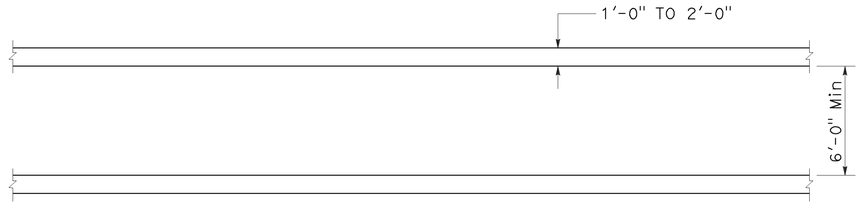


DIAGONAL

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

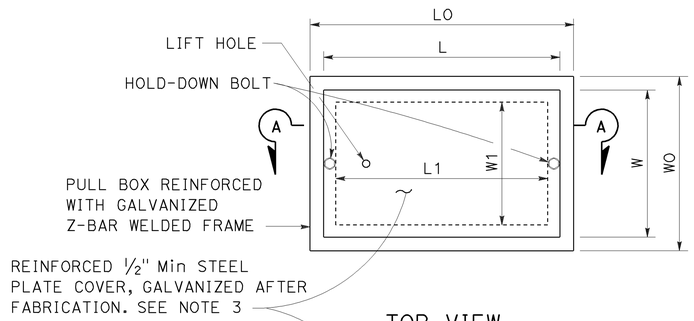
NO SCALE

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

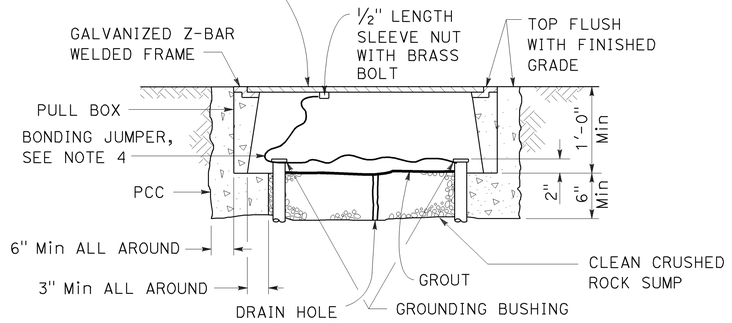
REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

6-28-12



TOP VIEW



SECTION A-A

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

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	16	2.6/R23.9	34	34

Jeffery G. McRae
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 2-25-13

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".

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

01-05-12