

INDEX OF PLANS

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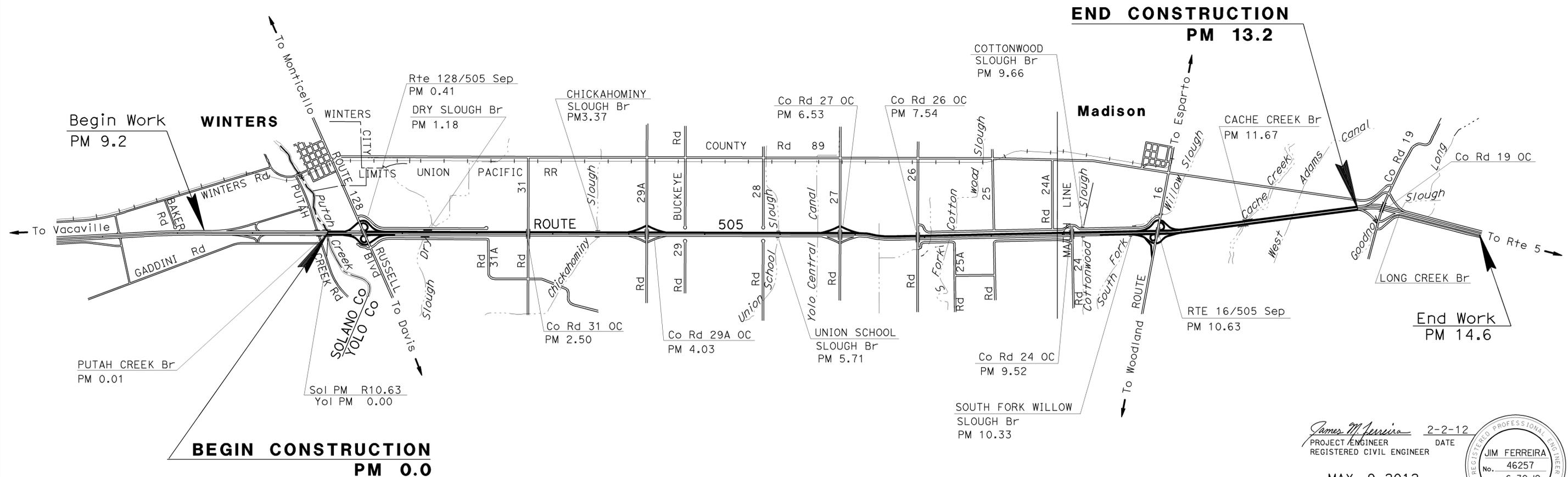
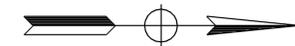
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN YOLO COUNTY IN AND NEAR WINTERS
FROM COUNTY LINE
TO 0.2 MILE SOUTH OF
COUNTY ROAD 19 OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	505	0.0/13.2	1	26

LOCATION MAP



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

James M. Ferreira 2-2-12
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
MAY, 9 2012
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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

NO SCALE

CONTRACT No.	03-4M2904
PROJECT ID	0300020519

DATE PLOTTED => 08-MAY-2012
 TIME PLOTTED => 12:58
 00-00-00

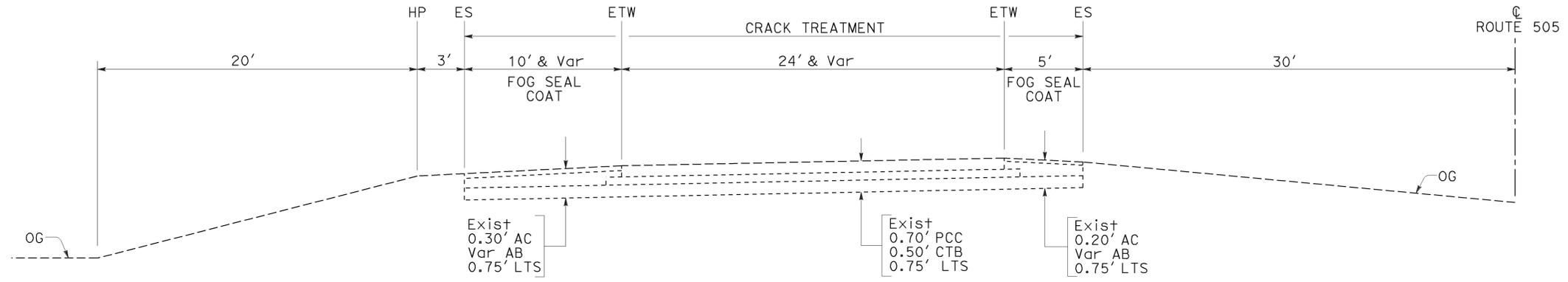
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	505	0.0/13.2	2	26
<i>James M. Ferreira</i> REGISTERED CIVIL ENGINEER			2-2-12	DATE	
5-9-12			PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
REGISTERED PROFESSIONAL ENGINEER JIM FERREIRA No. 48257 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA					

NOTES:

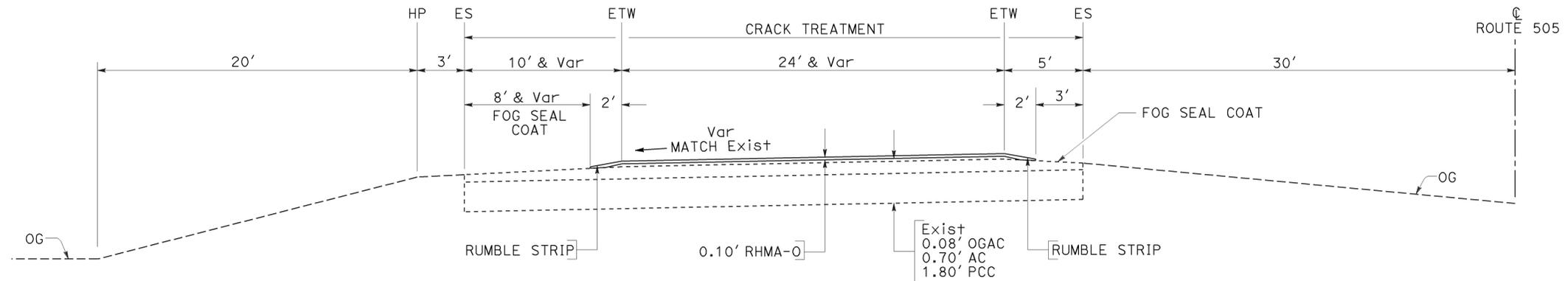
- DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR LOCATIONS AND QUANTITIES, SEE CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES.
- NO WORK SHALL BE PERFORMED ON BRIDGE DECKS OR APPROACH/DEPARTURE SLABS.

ABBREVIATIONS:

- RHMA-O - RUBBERIZED HOT MIX ASPHALT (OPEN GRADED)
 LTS - LIME TREATED SUBBASE



SOUTHBOUND ROUTE 505
 PM 11.00 TO PM 13.20



SOUTHBOUND ROUTE 505
 PM 0.00 TO PM 11.00

TYPICAL CROSS SECTIONS
 NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	RONALD S. SYKES	CHECKED BY	JIM FERREIRA
MAINTENANCE	RONALD S. SYKES		RONALD S. SYKES

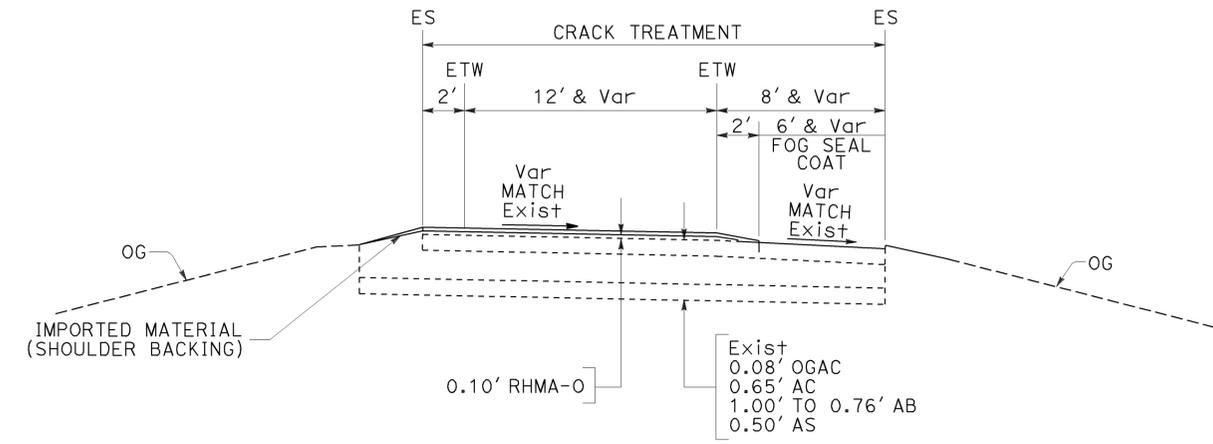
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	505	0.0/13.2	3	26

James M. Ferreira
 REGISTERED CIVIL ENGINEER 2-2-12 DATE
 5-9-12 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
 No. 48257
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

NOTES:

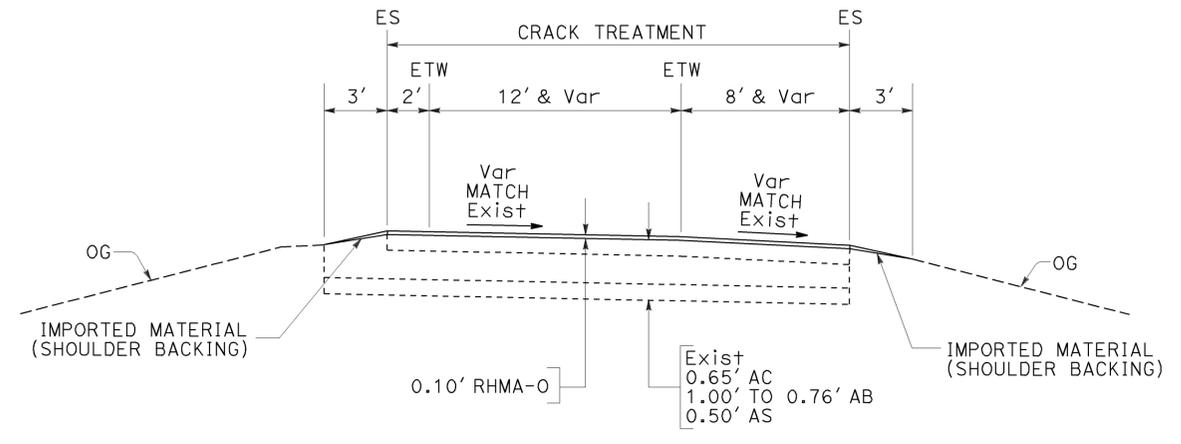
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



SB AND NB ON AND OFF RAMPS

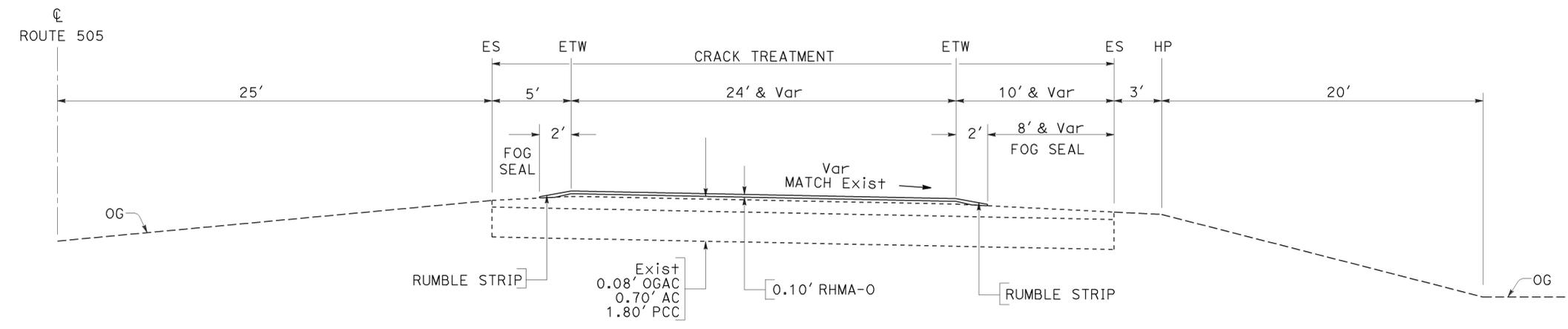
- PM 0.41 SB ROUTE 128 (RUSSELL Blvd) ON RAMP
- PM 0.41 SB ROUTE 128 (RUSSELL Blvd) OFF RAMP
- PM 4.03 SB COUNTY ROAD 29A ON RAMP
- PM 4.03 SB COUNTY ROAD 29A OFF RAMP
- PM 6.53 SB COUNTY ROAD 27 ON RAMP
- PM 6.53 SB COUNTY ROAD 27 OFF RAMP
- PM 10.63 SB ROUTE 16 ON RAMP
- PM 10.63 SB ROUTE 16 OFF RAMP

- PM 0.41 NB ROUTE 128 (RUSSELL Blvd) OFF RAMP
- PM 0.41 NB ROUTE 128 (RUSSELL Blvd) ON RAMP
- PM 10.63 NB ROUTE 16 OFF RAMP
- PM 10.63 NB ROUTE 16 ON RAMP



SB AND NB LOOP ON RAMPS

- PM 0.41 ROUTE 128 (RUSSELL BOULEVARD) LOOP ON RAMPS
- PM 10.63 ROUTE 16 LOOP ON RAMPS



NORTHBOUND ROUTE 505

- PM 0.00 TO PM 0.70
- PM 10.17 TO PM 13.20

TYPICAL CROSS SECTIONS

NO SCALE

X-2

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YoI	505	0.0/13.2	4	26
James M. Ferreira			2-2-12	DATE	
REGISTERED CIVIL ENGINEER					
5-9-12			PLANS APPROVAL DATE		
<small>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.</small>					

NOTES:

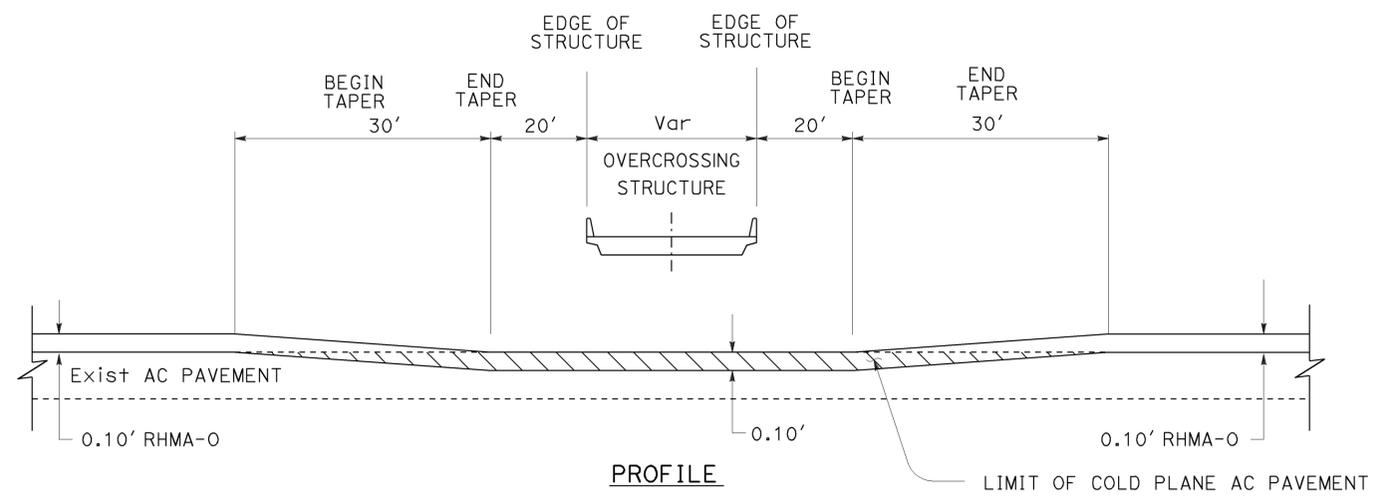
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

ABBREVIATIONS:

RHMA-O = RUBBERIZED HOT MIX ASPHALT (OPEN GRADED)

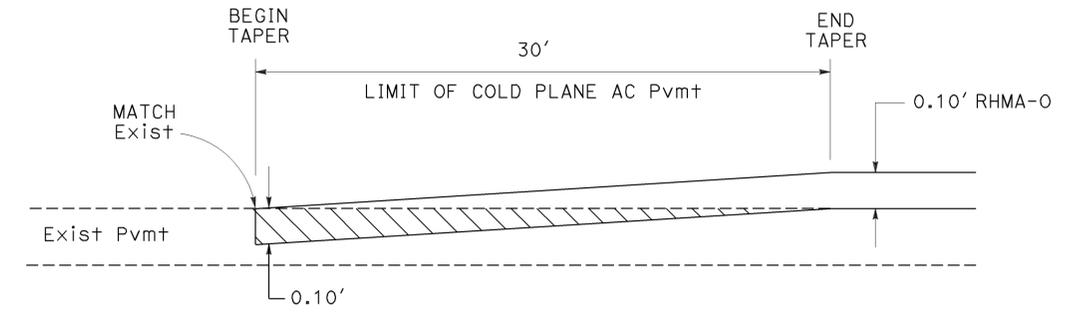
LEGEND:

COLD PLANE AC PAVEMENT



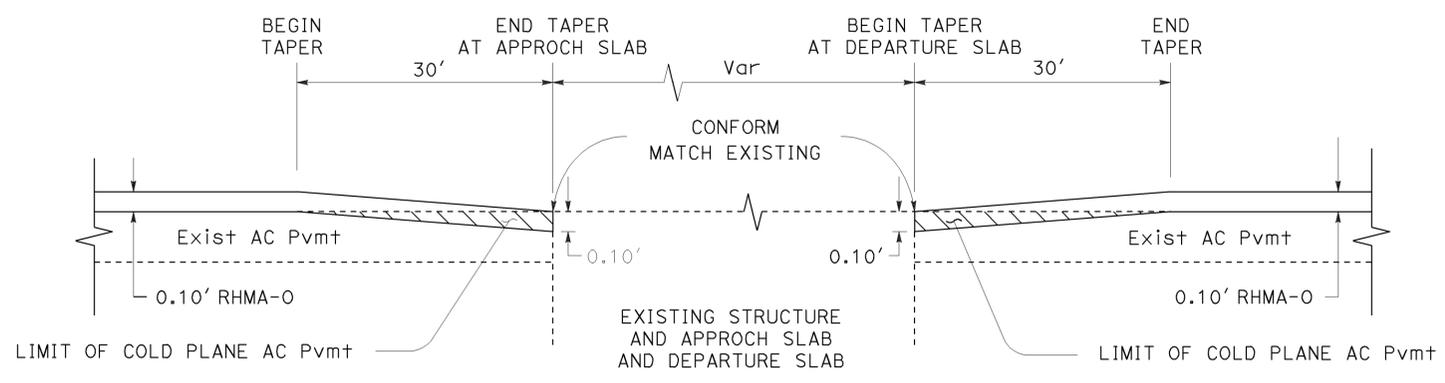
PAVING CONFORM AT OVERCROSSING STRUCTURES

- PM 0.41 ROUTE 128/505 SEPARATION SB & NB
- PM 2.50 COUNTY ROAD 31 OC SB
- PM 4.03 COUNTY ROAD 29A OC SB
- PM 6.53 COUNTY ROAD 27 OC SB
- PM 7.54 COUNTY ROAD 26 OC SB
- PM 9.52 COUNTY ROAD 24 OC SB
- PM 10.63 ROUTE 16/505 SEPARATION SB & NB



MAINLINE PAVING CONFORMS

- PM 0.0 SB
- PM 13.20 SB
- PM 0.0 NB
- PM 0.70 NB
- PM 10.17 NB
- PM 13.20 NB



PAVING CONFORM AT BRIDGE STRUCTURES

- PM 0.01 PUTAH CREEK SB & NB
- PM 1.18 DRY SLOUGH SB
- PM 3.37 CHICKAHOMINY SLOUGH SB
- PM 5.71 UNION SCHOOL SLOUGH SB
- PM 9.66 COTTONWOOD SLOUGH SB
- PM 11.67 CACHE CREEK SB & NB

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: RONALD S. SYKES
 CHECKED BY: JIM FERREIRA, RONALD S. SYKES
 REVISIONS: REVISED BY: JIM FERREIRA, RONALD S. SYKES; DATE: [blank]
 USERNAME => s134507; DGN FILE => 0300020519ga001.dgn
 BORDER LAST REVISED 7/2/2010
 RELATIVE BORDER SCALE IS IN INCHES
 UNIT 0484
 PROJECT NUMBER & PHASE 03000205191
 LAST REVISION: 00-00-00; DATE PLOTTED => 08-MAY-2012; TIME PLOTTED => 12:58

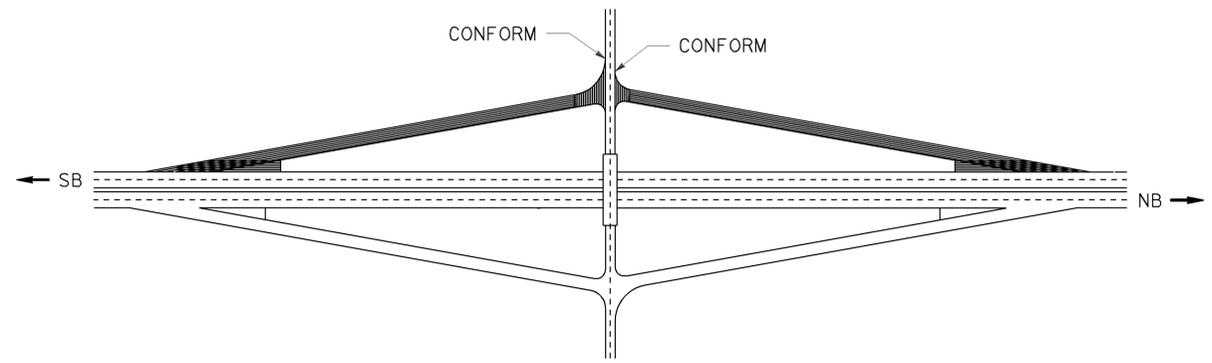
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YoI	505	0.0/13.2	5	26
<i>James M. Ferreira</i> REGISTERED CIVIL ENGINEER			2-2-12 DATE		
5-9-12 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTES:

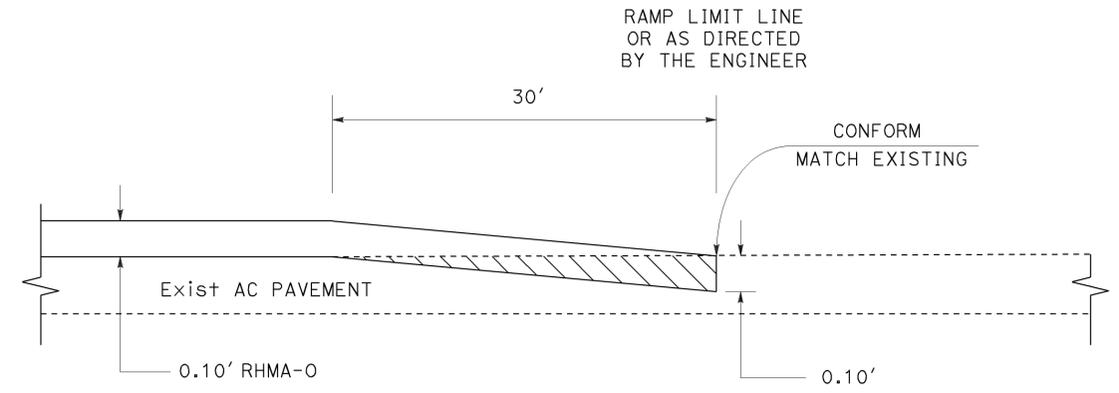
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- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

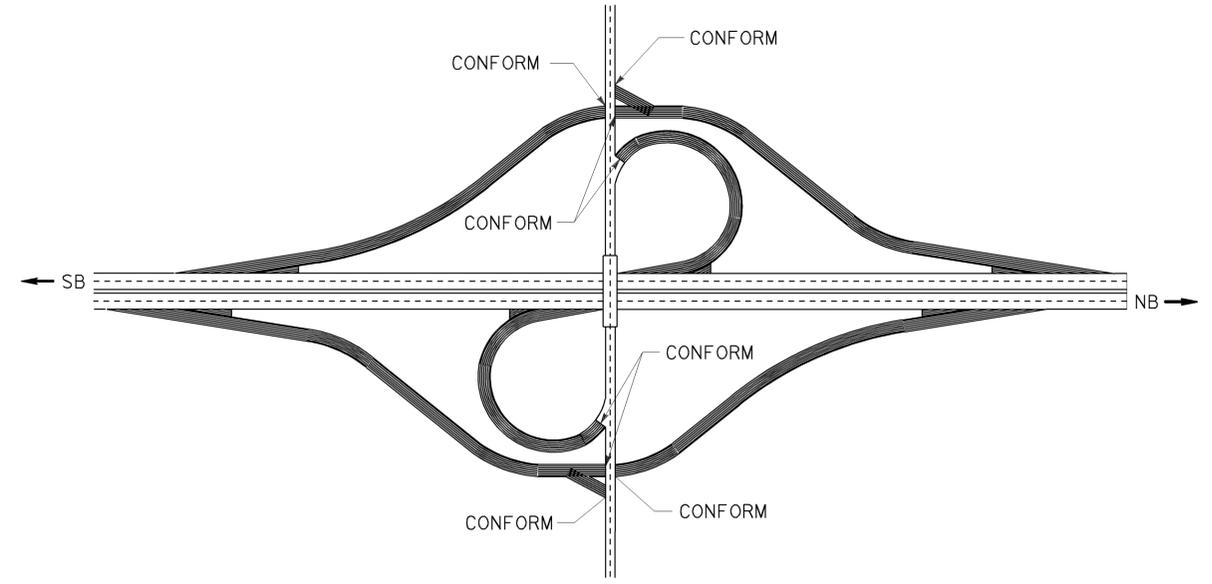
RHMA-O



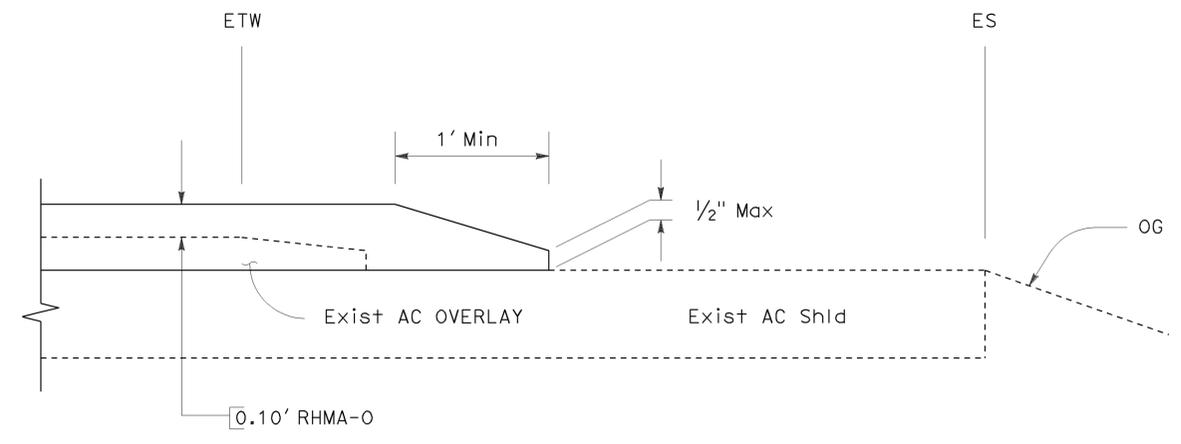
LIMITS OF RHMA-O AT RAMPS
 COUNTY ROAD 29A SB AND COUNTY ROAD 27 SB



RAMP CONFORM DETAIL



LIMITS OF RHMA-O AT RAMPS
 ROUTE 128 AND ROUTE 16



RHMA OVERLAY EDGE TAPER

CONSTRUCTION DETAILS
 NO SCALE
C-2

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

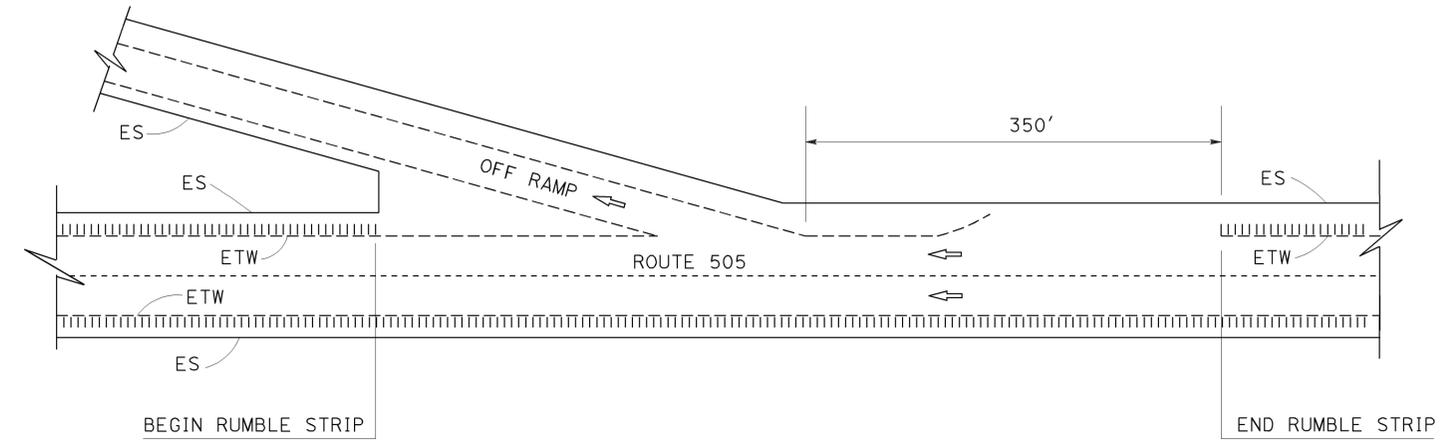
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YoI	505	0.0/13.2	6	26
<i>James M. Ferreira</i> REGISTERED CIVIL ENGINEER			2-2-12 DATE		
5-9-12 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTES:

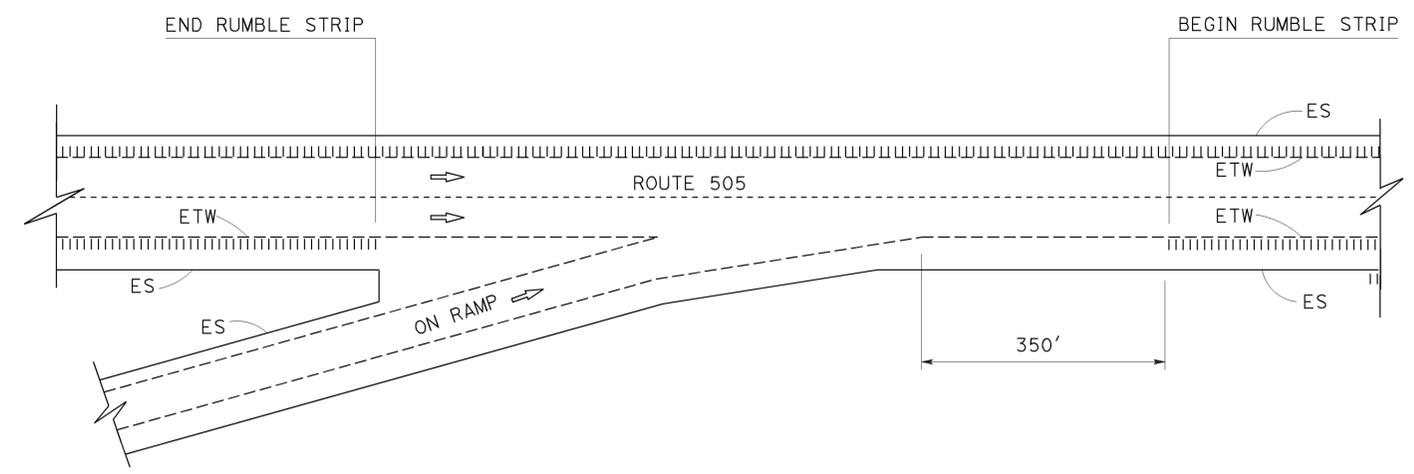
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

- DIRECTION OF TRAFFIC
- SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)



OFF RAMP



ON RAMP

RUMBLE STRIP DETAIL AT RAMPS

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

CONSTRUCTION DETAILS
 NO SCALE
C-3

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] (14)		84" x 42"	ROAD WORK NEXT 14 MILES	2 - 4" x 6"	2
B		C40(Mod)	96" x 60"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 6" x 6"	3
C	G20-1 [Spec] (3)		84" x 42"	ROAD WORK NEXT 3 MILES	2 - 4" x 4"	2
D	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	2
E	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	10
F	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	10
G	G20-2	C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	3

LEGEND

- (X) CONSTRUCTION AREA SIGN LETTER
- ┆ SIGN - SINGLE POST
- ┆┆ SIGN - TWO POSTS

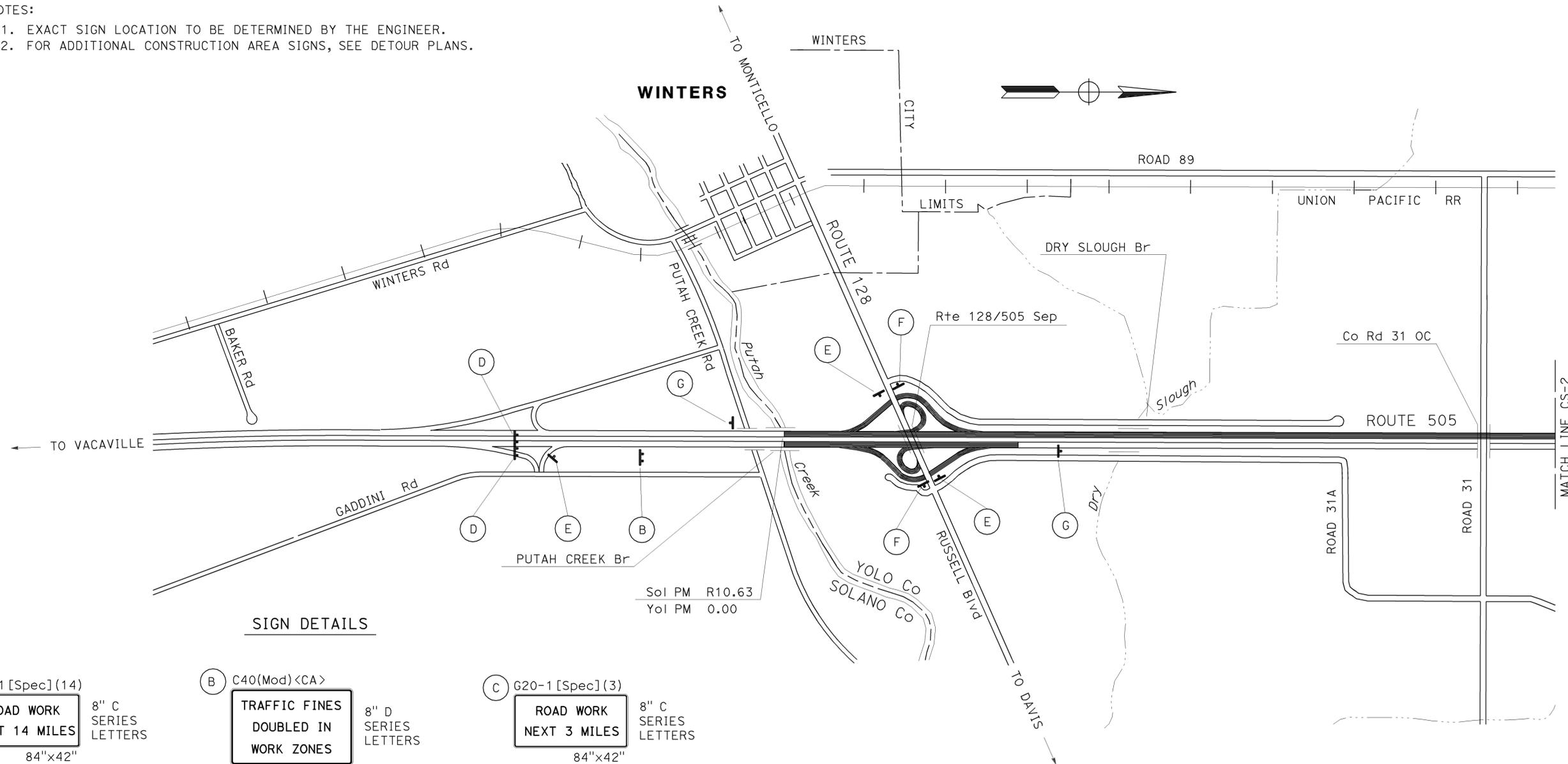
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	505	0.0/13.2	7	26

Jeffrey S Jewett
 REGISTERED CIVIL ENGINEER DATE 2-10-12
 5-9-12
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 Jeffrey S Jewett
 No. 49233
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

NOTES:

- EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
- FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE DETOUR PLANS.



SIGN DETAILS

(A) G20-1 [Spec] (14)

ROAD WORK
NEXT 14 MILES

8" C SERIES LETTERS
84"x42"

RETROREFLECTIVE ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.

(B) C40(Mod) <CA>

TRAFFIC FINES
DOUBLED IN
WORK ZONES

8" D SERIES LETTERS
96"x60"

RETROREFLECTIVE WHITE BACKGROUND WITH BLACK LEGEND AND BORDER.

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

ROAD WORK
NEXT 3 MILES

8" C SERIES LETTERS
84"x42"

RETROREFLECTIVE ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

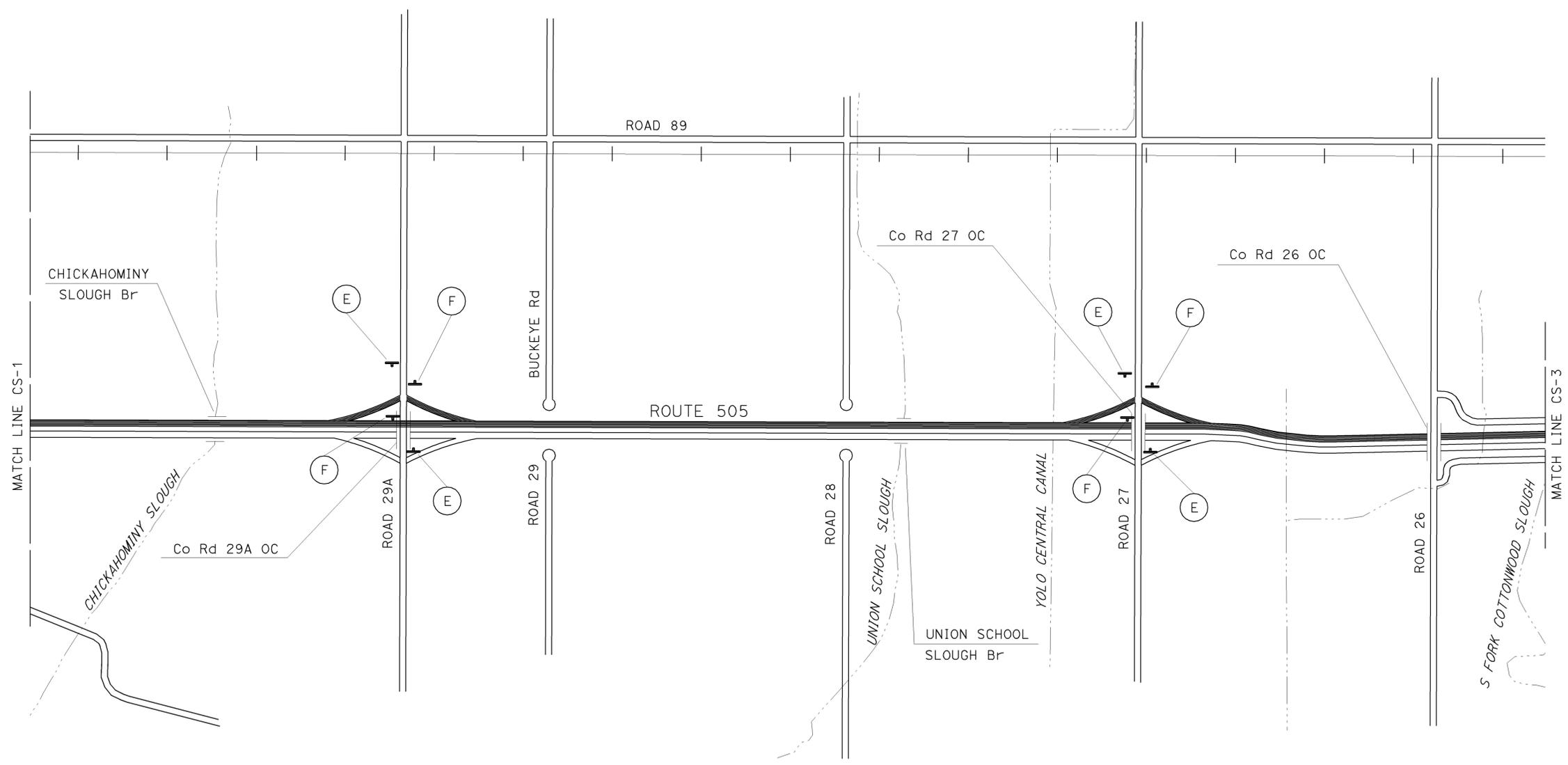
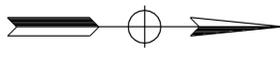
CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 CALCULATED/DESIGNED BY: CHUCK COOK
 CHECKED BY: JEFFREY JEWETT
 REVISIONS: REVISOR: DATE
 REVISOR: DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	505	0.0/13.2	8	26

REGISTERED CIVIL ENGINEER: Jeffrey S. Jewett
 No. 49233
 Exp. 9-30-12
 DATE: 2-10-12
 PLANS APPROVAL DATE: 5-9-12

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CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

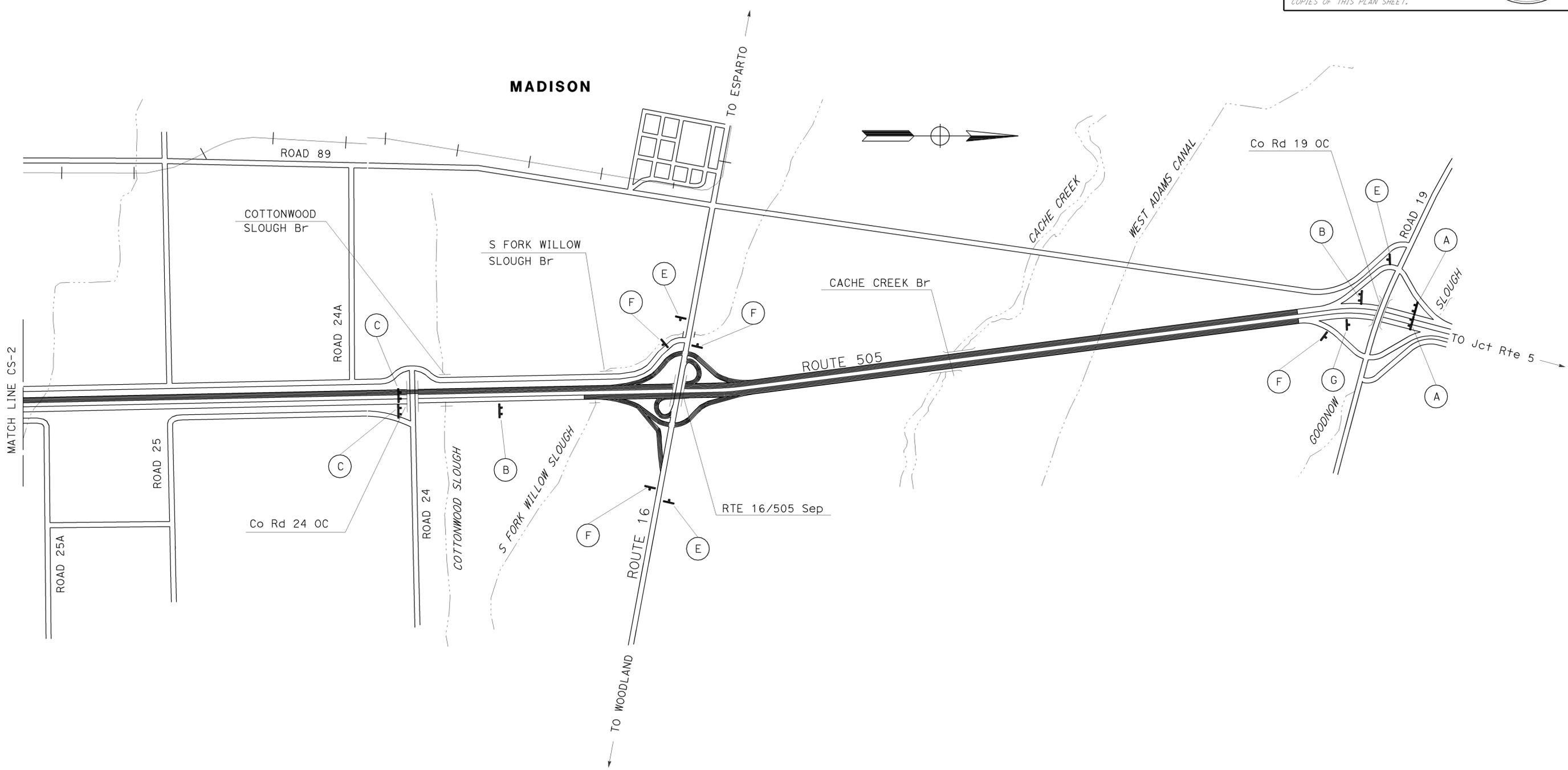
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	505	0.0/13.2	9	26

REGISTERED CIVIL ENGINEER DATE 2-10-12
 5-9-12 PLANS APPROVAL DATE
 REGISTERED PROFESSIONAL ENGINEER
 Jeffrey S. Jewett
 No. 49233
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	CHUCK COOK	REVISOR	CHUCK COOK
Caltrans	TRAFFIC	CHECKED BY	JEFFREY JEWETT	DATE	7/2/2010



CONSTRUCTION AREA SIGNS
NO SCALE
CS-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	505	0.0/13.2	10	26

Jeffrey Jewett
 REGISTERED CIVIL ENGINEER DATE 2-10-12
 5-9-12
 PLANS APPROVAL DATE

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LOCATION	4" THERMOPLASTIC TRAFFIC STRIPE			8" THERMOPLASTIC TRAFFIC STRIPE			4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17 - 7)	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36 - 12)	PAVEMENT MARKER				
	DETAIL NUMBER			DETAIL NUMBER			DETAIL NUMBER	DETAIL NUMBER	DETAIL NUMBER	RETROREFLECTIVE			
	25 (LF)	25A (LF)	27B (LF)	36 (LF)	36A (LF)	38 (LF)	9 (LF)	12 (LF)		14A (LF)	TYPE C (EA)	TYPE G (EA)	TYPE H (EA)
NB MAINLINE	19,514		20,650	1,478	1,136		568	19,082	432	9,12,14A, 25,36,36A	12	524	408
SB MAINLINE	69,675		71,418	1,848	1,743		1,848	67,946	1,728	9,12,14A, 25,36,36A	48	1,609	1,453
NB EXIT RAMP TO Rte 128		1,790	1,800			95				25A,38		4	76
NB LOOP ENTRANCE RAMP FROM Rte 128		1,124	1,124							25A			48
NB ENTRANCE RAMP FROM Rte 128		1,285	1,285							25A			55
SB EXIT RAMP TO Rte 128		1,760	1,760			83				25A,38		5	75
SB LOOP ENTRANCE RAMP FROM Rte 128		1,006	1,006							25A			43
SB ENTRANCE RAMP FROM Rte 128		1,098	1,098							25A			47
SB EXIT RAMP TO COUNTY ROAD 29A		829	829							25A			36
SB ENTRANCE RAMP FROM COUNTY ROAD 29A		1,165	1,165							25A			50
SB EXIT RAMP TO COUNTY ROAD 27		1,165	1,165							25A			50
SB ENTRANCE RAMP FROM COUNTY ROAD 27		1,035	1,035							25A			45
NB EXIT RAMP TO Rte 16		1,450	1,330			280				25A,38		8	62
NB LOOP ENTRANCE RAMP FROM Rte 16		870	870							25A			38
NB ENTRANCE RAMP FROM Rte 16		1,555	1,555							25A			66
SB EXIT RAMP TO Rte 16		1,421	1,421							25A			61
SB LOOP ENTRANCE RAMP FROM Rte 16		859	859										37
SB ENTRANCE RAMP FROM Rte 16		1,342	1,342										57
SUBTOTAL	89,189	19,754	111,712	3,326	2,879	458	2,416	87,028	2,160	—————	60	2,150	2,707
TOTAL		220,655		6,663			2,416	89,188		—————		4,917	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 CALCULATED/DESIGNED BY: CHUCK COOK
 CHECKED BY: JEFFERY JEWETT
 REVISED BY: JEFFERY JEWETT
 DATE REVISED:

PAVEMENT DELINEATION QUANTITIES

PDQ-1

LAST REVISION | DATE PLOTTED => 08-MAY-2012
 01-10-12 | TIME PLOTTED => 12:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	505	0.0/13.2	11	26

Jeffrey S. Jewett 2-10-12
 REGISTERED CIVIL ENGINEER DATE
 5-9-12
 PLANS APPROVAL DATE

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

LOCATION	DELINEATOR (CLASS 1)	REMOVE THERMOPLASTIC PAVEMENT MARKING								
		DESCRIPTION								
		TYPE G-1 (EA)	STOP (SQFT)	AHEAD (SQFT)	SIGNAL (SQFT)	TYPE I(24') ARROW (SQFT)	TYPE II(L) ARROW (SQFT)	TYPE III(R) ARROW (SQFT)	TYPE V ARROW (SQFT)	LIMIT LINE (SQFT)
NB EXIT RAMP TO Rte 128	8		31	32		90	84	33	58	
NB LOOP ENTRANCE RAMP FROM Rte 128	23				31					
NB ENTRANCE RAMP FROM Rte 128	8				31					
SB EXIT RAMP TO Rte 128	9	44	31					33	33	
SB LOOP ENTRANCE RAMP FROM Rte 128	32				31					
SB ENTRANCE RAMP FROM Rte 128	7				31					
SB EXIT RAMP TO COUNTY ROAD 29A	4	66	31					66	62	
SB ENTRANCE RAMP FROM COUNTY ROAD 29A					31					
SB EXIT RAMP TO COUNTY ROAD 27		66	31					66	63	
SB ENTRANCE RAMP FROM COUNTY ROAD 27					31					
NB EXIT RAMP TO Rte 16	8		31	32		90	84	99		116
NB LOOP ENTRANCE RAMP FROM Rte 16	24				31					
NB ENTRANCE RAMP FROM Rte 16	8				31					
SB EXIT RAMP TO Rte 16	9	66	31					66	73	
SB LOOP ENTRANCE RAMP FROM Rte 16	23				31					
SB ENTRANCE RAMP FROM Rte 16	8				31					
SUBTOTAL		242	186	64	310	180	168	363	289	116
TOTAL	171	1,918								

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 CALCULATED/DESIGNED BY: CHUCK COOK
 CHECKED BY: JEFFREY JEWETT
 REVISED BY: JEFFREY JEWETT
 DATE REVISED:

PAVEMENT DELINEATION QUANTITIES
PDQ-2

LAST REVISION: 01-09-12 DATE PLOTTED => 08-MAY-2012 TIME PLOTTED => 12:58

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC

FUNCTIONAL SUPERVISOR
 SERGIO ACEVES

CALCULATED/DESIGNED BY
 CHECKED BY

CHUCK COOK
 JEFFREY JEWETT

REVISED BY
 DATE REVISED

LOCATION	THERMOPLASTIC PAVEMENT MARKING								
	DESCRIPTION								
	STOP (SQFT)	AHEAD (SQFT)	SIGNAL (SQFT)	TYPE I(24') ARROW (SQFT)	TYPE II(L) ARROW (SQFT)	TYPE III(R) ARROW (SQFT)	TYPE V ARROW (SQFT)	LIMIT LINE (SQFT)	CROSSWALK (SQFT)
NB EXIT RAMP TO Rte 128		31	32		90	84	33	58	
NB LOOP ENTRANCE RAMP FROM Rte 128				31					
NB ENTRANCE RAMP FROM Rte 128				31					
SB EXIT RAMP TO Rte 128	44	31					33	33	
SB LOOP ENTRANCE RAMP FROM Rte 128				31					
SB ENTRANCE RAMP FROM Rte 128				31					
SB EXIT RAMP TO COUNTY ROAD 29A	66	31					66	62	
SB ENTRANCE RAMP FROM COUNTY ROAD 29A				31					
SB EXIT RAMP TO COUNTY ROAD 27	66	31					66	63	
SB ENTRANCE RAMP FROM COUNTY ROAD 27				31					
NB EXIT RAMP TO Rte 16		31	32		90	84	99		116
NB LOOP ENTRANCE RAMP FROM Rte 16				31					
NB ENTRANCE RAMP FROM Rte 16				31					
SB EXIT RAMP TO Rte 16	66	31					66	73	
SB LOOP ENTRANCE RAMP FROM Rte 16				31					
SB ENTRANCE RAMP FROM Rte 16				31					
SUBTOTAL	242	186	64	310	180	168	363	289	116
TOTAL	1,918								

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	505	0.0/13.2	12	26

Jeffrey S. Jewett
 REGISTERED CIVIL ENGINEER DATE 2-10-12
 5-9-12
 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.

PAVEMENT DELINEATION QUANTITIES

PDQ-3

LAST REVISION DATE PLOTTED => 08-MAY-2012
 01-10-12 TIME PLOTTED => 12:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol	505	0.0/13.2	13	26

James M. Ferreira 2-2-12
 REGISTERED CIVIL ENGINEER DATE

5-9-12
 PLANS APPROVAL DATE

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 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR
 RONALD S. SYKES
 CALCULATED/DESIGNED BY
 CHECKED BY
 JIM FERREIRA
 RONALD S. SYKES
 REVISED BY
 DATE REVISED

ROADWAY QUANTITIES

EB/WB	PM	DESCRIPTION	COLD PLANE ASPHALT CONCRETE PAVEMENT	IMPORTED MATERIAL (SHOULDER BACKING)	ASPHALTIC EMULSION (FOG SEAL COAT)	CRACK TREATMENT	RUBBERIZED HOT MIX ASPHALT (OPEN GRADED)	RUMBLE STRIP	TACK COAT
			SQYD	TON	TON	LNMI	TON	STA	TON
SB	0.0 TO 13.2	MAINLINE	4,370		35.0	16.4	12,500	1,400	78.0
NB	0.0 TO 13.2	MAINLINE	1,230		10.0	7.6	2,800	400	18.0
SB	0.00 TO 0.35	ROUTE 128 (RUSSELL Blvd) ON RAMP	60	21	0.3	0.3	110		0.6
SB	0.24 TO 0.38	ROUTE 128 (RUSSELL Blvd) LOOP ON RAMP	60	40	0	0.3	150		0.9
SB	0.36 TO 0.73	ROUTE 128 (RUSSEL Blvd) OFF RAMP	120	31	0.5	0.5	160		1.1
SB	3.67 TO 4.02	COUNTY ROAD 29A ON RAMP	60	20	0.3	0.3	100		0.6
SB	4.03 TO 4.25	COUNTY ROAD 29A OFF RAMP	60	18	0.3	0.3	100		0.5
SB	6.14 TO 6.53	COUNTY ROAD 27 ON RAMP	60	22	0.4	0.3	110		0.7
SB	6.54 TO 6.82	COUNTY ROAD 27 OFF RAMP	60	26	0.4	0.3	120		0.8
SB	10.22 TO 10.66	ROUTE 16 ON RAMP	60	28	0.5	0.4	150		1.0
SB	10.47 TO 10.67	ROUTE 16 LOOP ON RAMP	60	37	0.0	0.3	140		0.8
SB	10.67 TO 10.96	ROUTE 16 OFF RAMP	120	31	0.5	0.5	160		0.9
NB	0.07 TO 0.44	ROUTE 128 (RUSSELL Blvd) OFF RAMP	120	37	0.6	0.6	200		1.3
NB	0.43 TO 0.55	ROUTE 128 (RUSSELL Blvd) LOOP ON RAMP	60	47	0	0.3	170		1.1
NB	0.45 TO 0.84	ROUTE 128 (RUSSELL Blvd) ON RAMP	60	26	0.5	0.4	120		0.8
NB	10.30 TO 10.60	ROUTE 16 OFF RAMP	120	28	0.5	0.5	130		1.0
NB	10.61 TO 10.79	ROUTE 16 LOOP ON RAMP	60	37	0.0	0.3	120		0.8
NB	10.61 TO 11.05	ROUTE 16 ON RAMP	60	31	0.5	0.4	160		1.1
SUBTOTAL			6,800	480	50.0	30.0	17,500	1,800	110.0
TOTAL			6,800	480	50.0	30.0	17,500	1,800	110.0

SUMMARY OF QUANTITIES

Q-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YoI	505	0.0/13.2	15	26

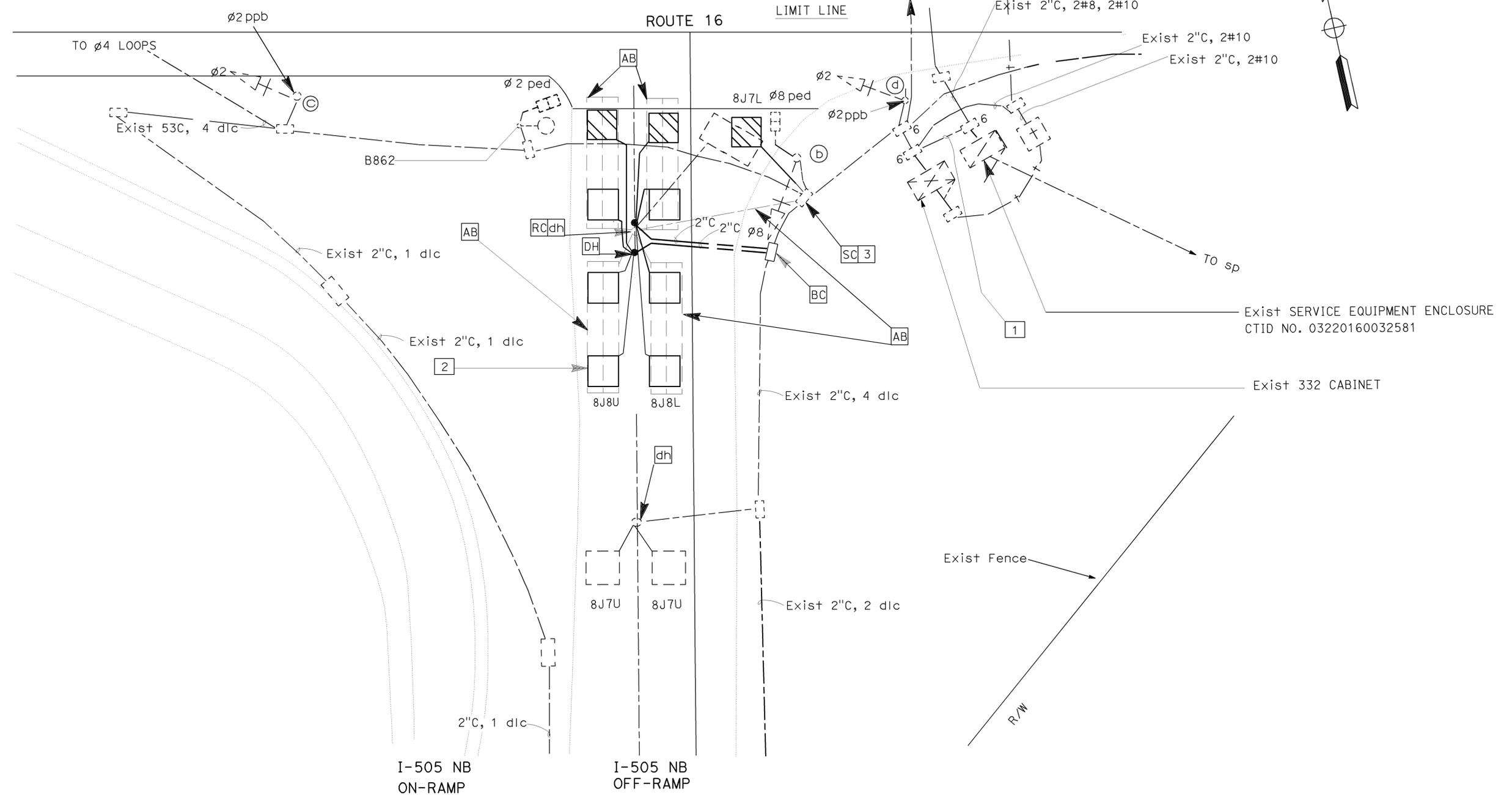
Chamkaur Singh Dhatta 5-08-12
 REGISTERED ELECTRICAL ENGINEER DATE
 5-9-12
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NOTES: FOR THIS SHEET ONLY

- 1 Existing 2#8 (LIGHTING), 2#8 (FLASHING BEACON), 2#8 (COUNT LOOPS CONTROLLER), 2#8 (I-505) LIGHTING.
- 2 SEE LOOP DETECTORS LAYOUT DETAIL AND LOOPS CONNECTIONS ON PLAN E-1.
- 3 RC Existing PULL BOX INSTALL NEW No. 6 PULL BOX.



REPLACEMENT OF DETECTOR LOOPS

NO SCALE

E-2

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans ELECTRICAL DESIGN	STEVEN BLOCK	CHAMKAUR DHATT	CHAMKAUR DHATT
		CHECKED BY	DATE REVISED

USERNAME => s134507
DGN FILE => 0300020519ua002.dgn



UNIT 0402

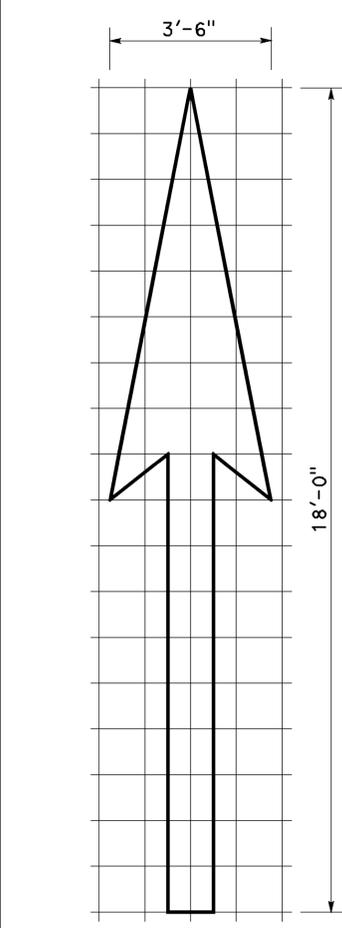
PROJECT NUMBER & PHASE

03000205191

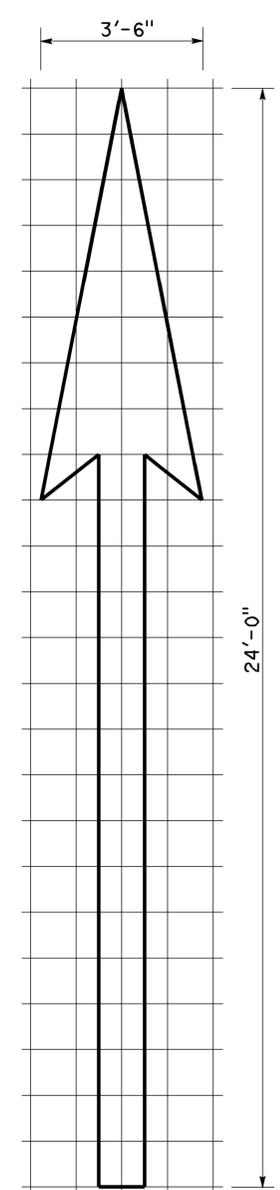
BORDER LAST REVISED 7/2/2010

DATE PLOTTED => 08-MAY-2012
TIME PLOTTED => 12:58

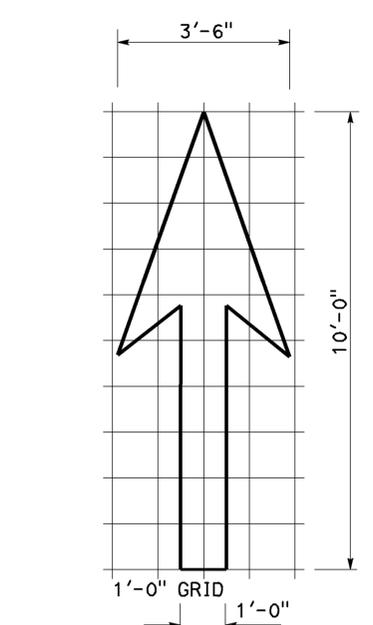
TO ACCOMPANY PLANS DATED 5-9-12



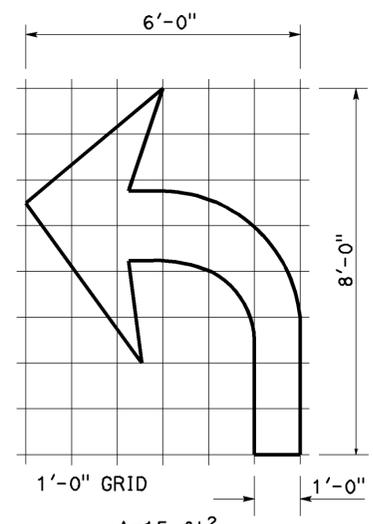
1'-0" GRID 1'-0"
A=25 ft²
TYPE I 18'-0" ARROW



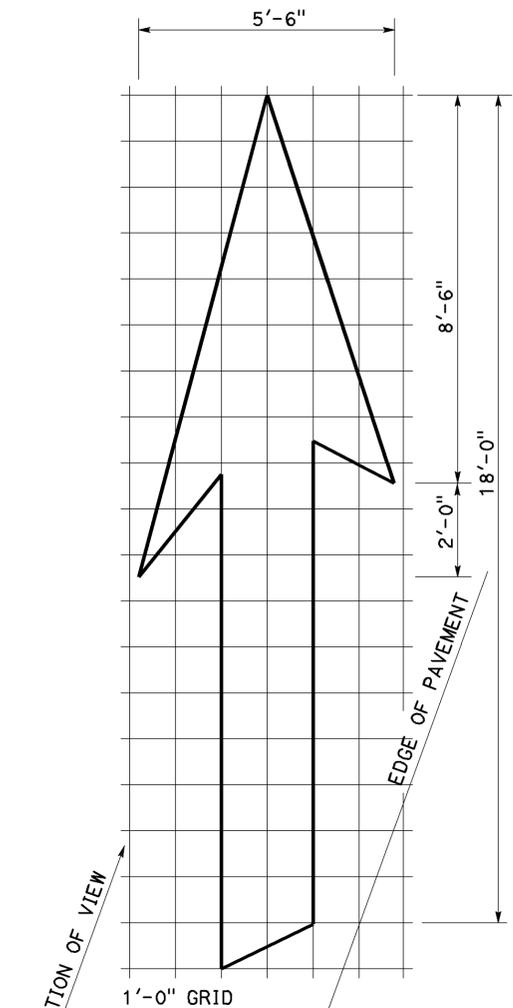
1'-0" GRID 1'-0"
A=31 ft²
TYPE I 24'-0" ARROW



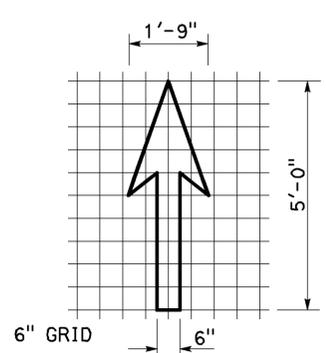
1'-0" GRID 1'-0"
A=14 ft²
TYPE I 10'-0" ARROW



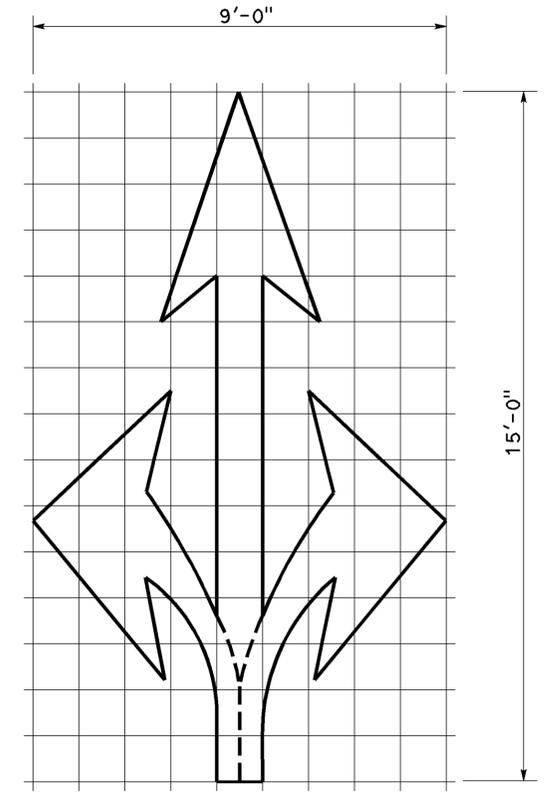
1'-0" GRID 1'-0"
A=15 ft²
TYPE IV (L) ARROW
(For Type IV (R) arrow, use mirror image)



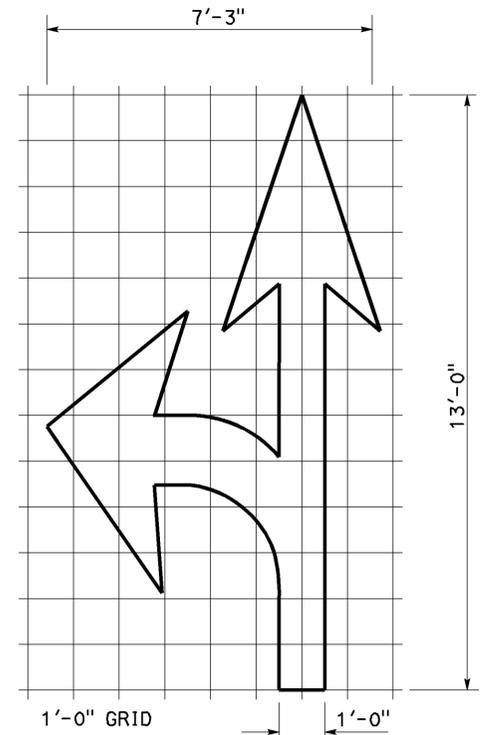
1'-0" GRID 20°
A=42 ft²
TYPE VI ARROW
Right lane drop arrow
(For left lane, use mirror image)



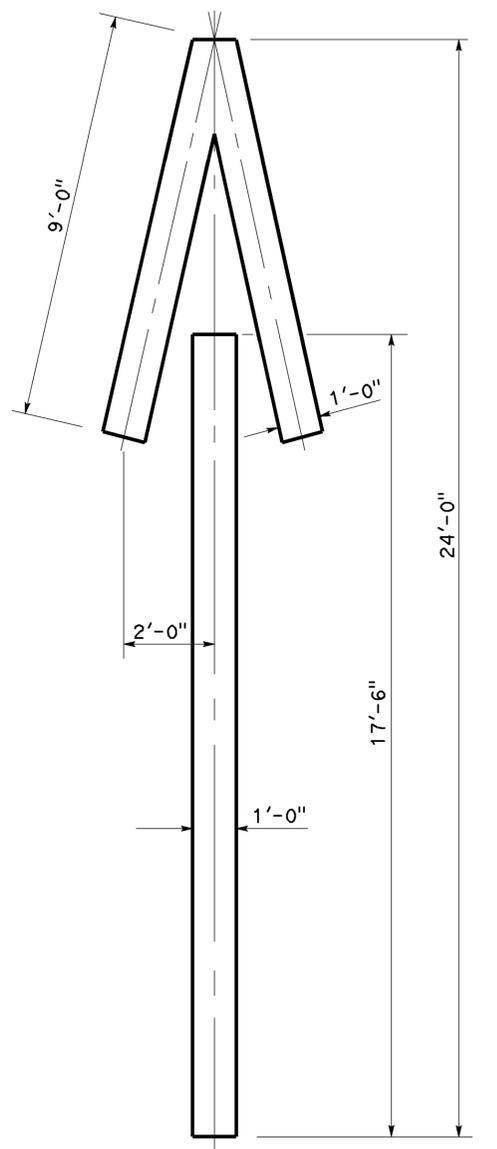
6" GRID 6"
A=3.5 ft²
BIKE LANE ARROW



1'-0" GRID 1'-0"
A=36 ft²
TYPE VIII ARROW



1'-0" GRID 1'-0"
A=27 ft²
TYPE VII (L) ARROW
(For Type VII (R) arrow, use mirror image)



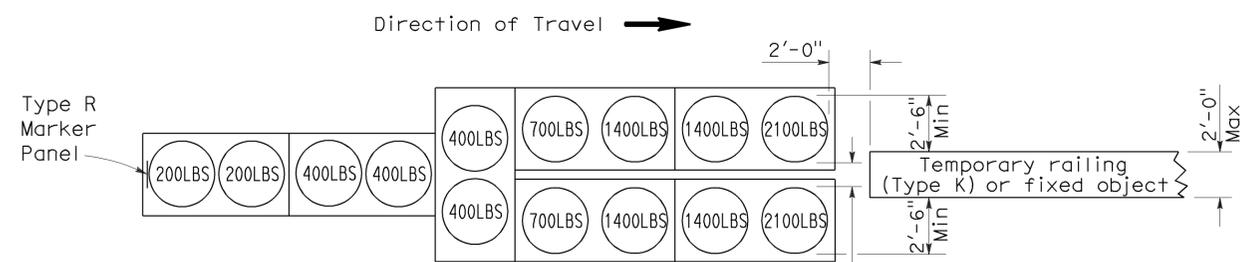
A=33 ft²
TYPE V ARROW

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

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

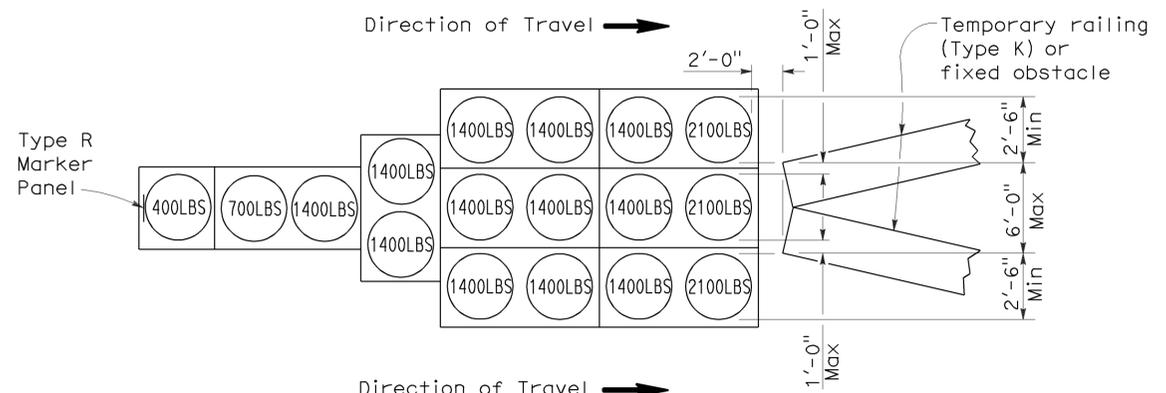
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A
DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

To accompany plans dated 5-9-12



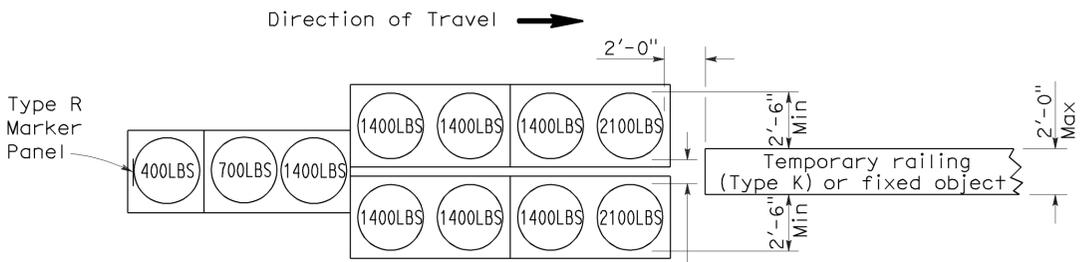
ARRAY 'TU14'

Approach speed 45 mph or more



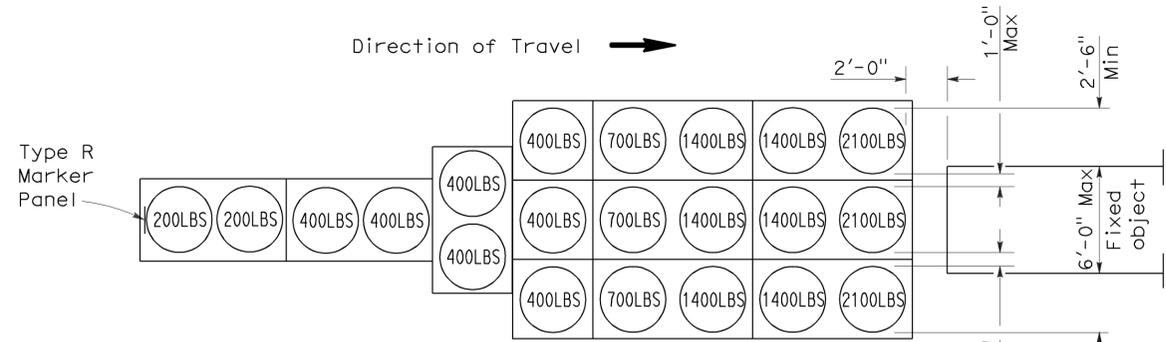
ARRAY 'TU17'

Approach speed less than 45 mph



ARRAY 'TU11'

Approach speed less than 45 mph

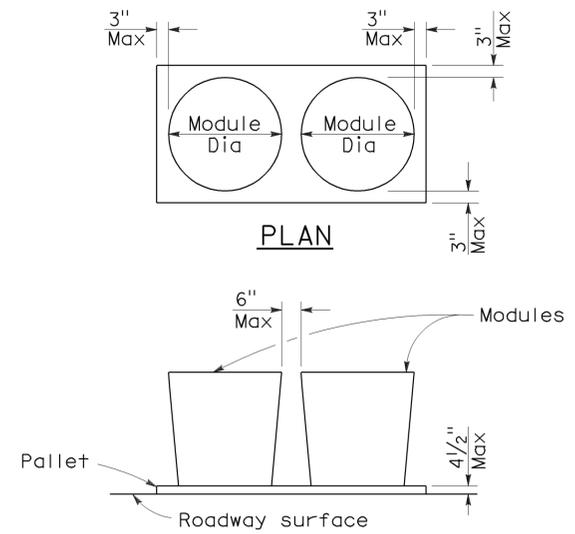


ARRAY 'TU21'

Approach speed 45 mph or more

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.



CRASH CUSHION PALLET DETAIL
See Note 7

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	YoI	505	0.0/13.2	18	26

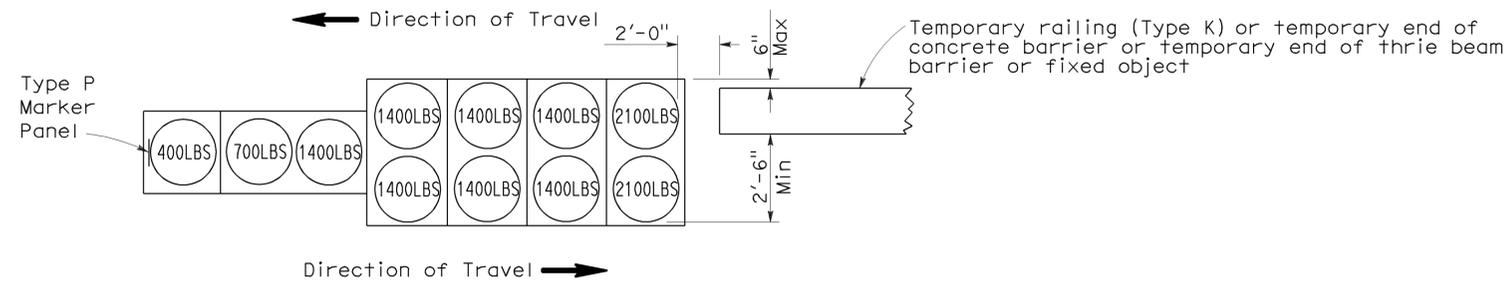
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

5-9-12
PLANS APPROVAL DATE

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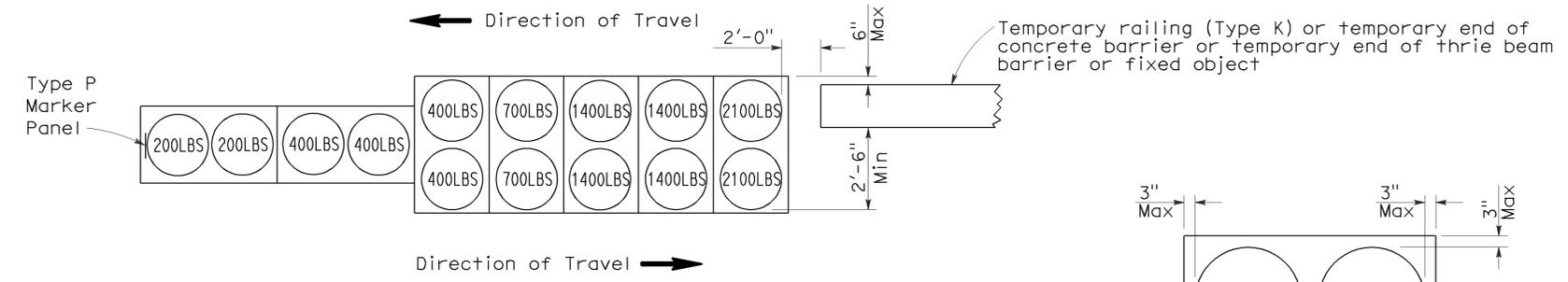
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 5-9-12



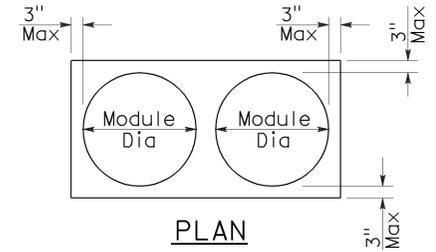
ARRAY 'TB11'

Approach speed less than 45 mph

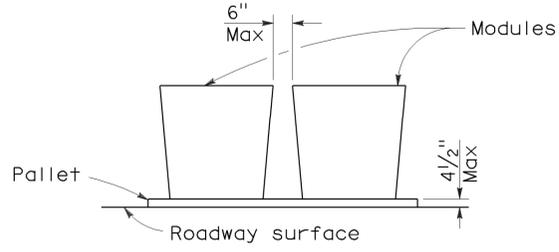


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

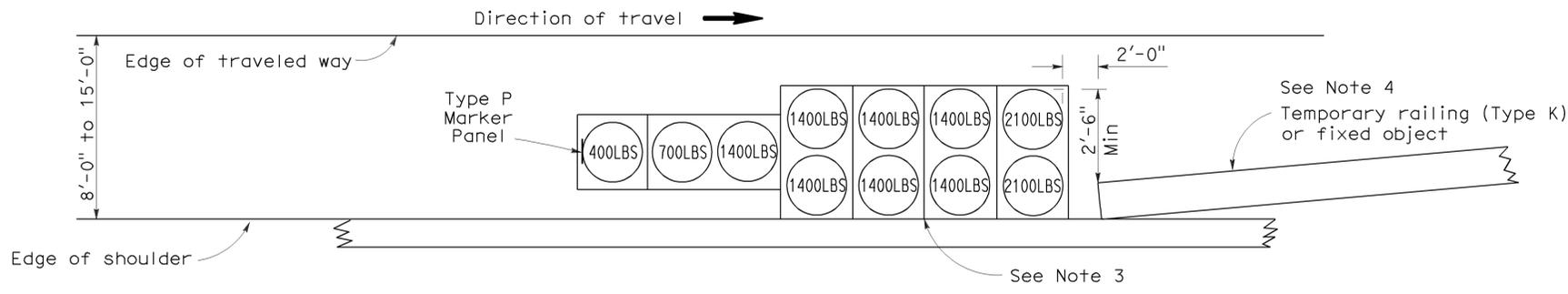
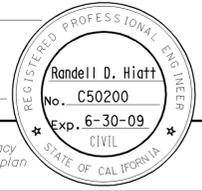
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	YoI	505	0.0/13.2	19	26

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

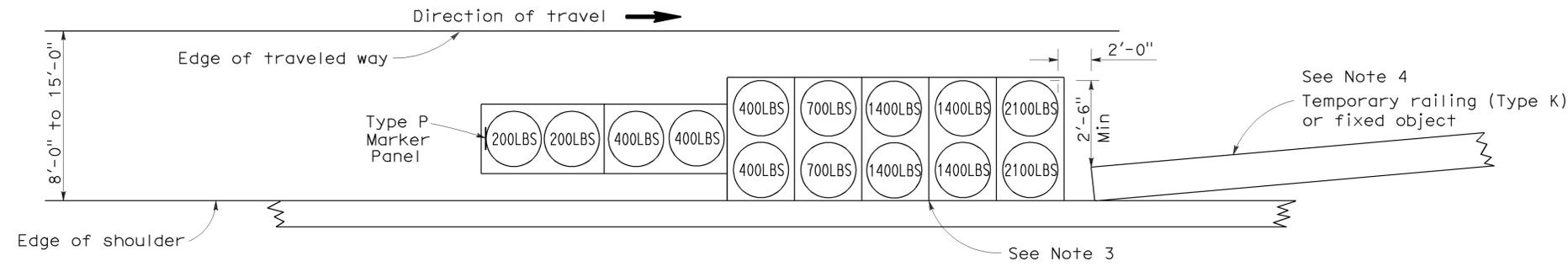
5-9-12
PLANS APPROVAL DATE

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To accompany plans dated 5-9-12



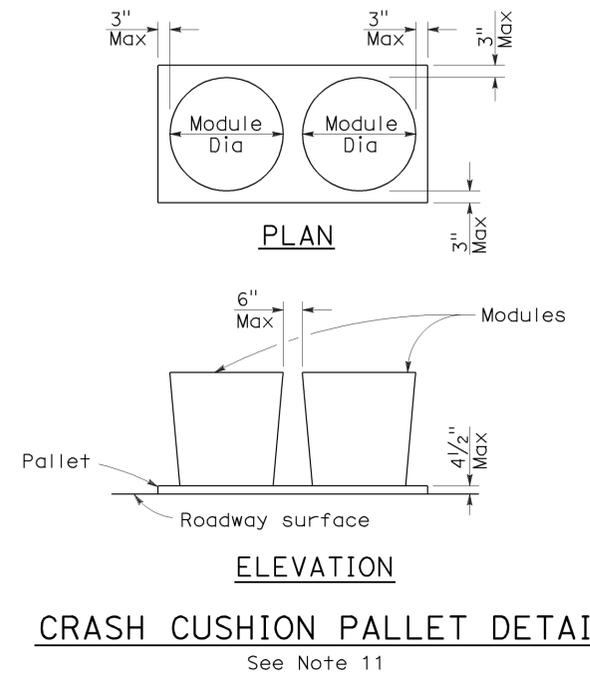
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.



CRASH CUSHION PALLET DETAIL
See Note 11

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**
NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YoI	505	0.0/13.2	20	26

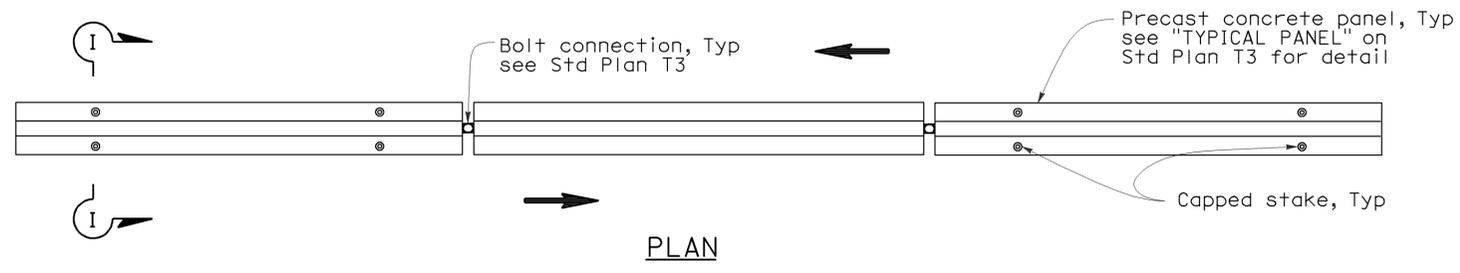
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

5-9-12
PLANS APPROVAL DATE

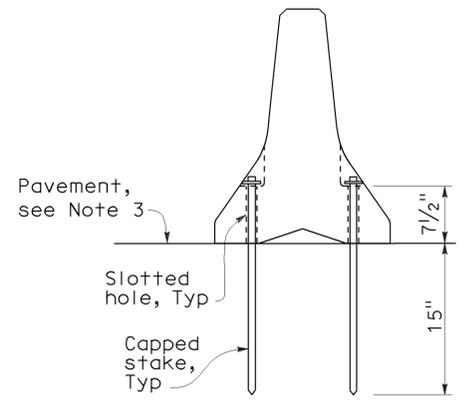
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 5-9-12



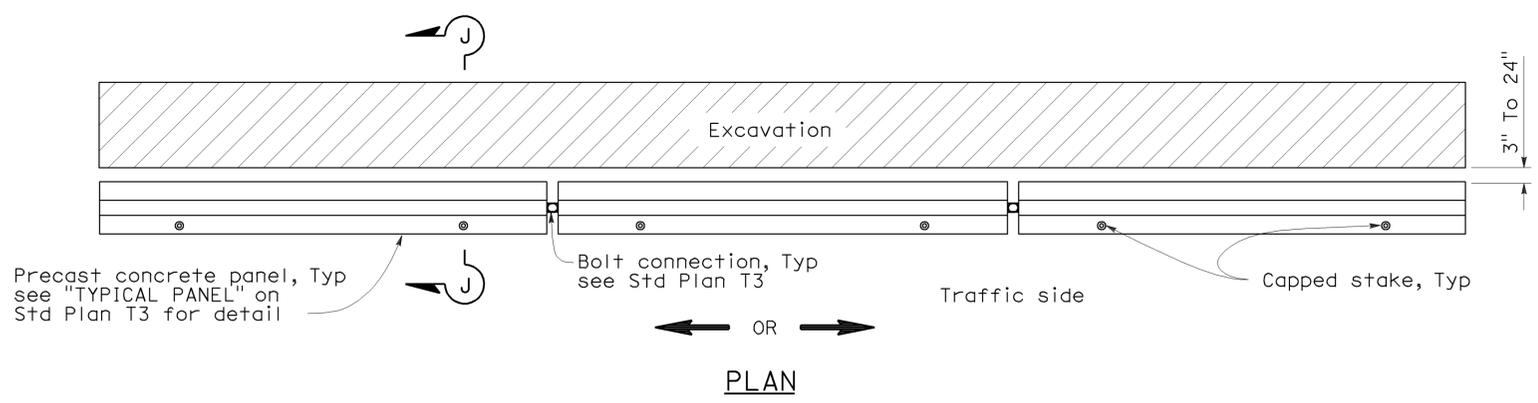
RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1



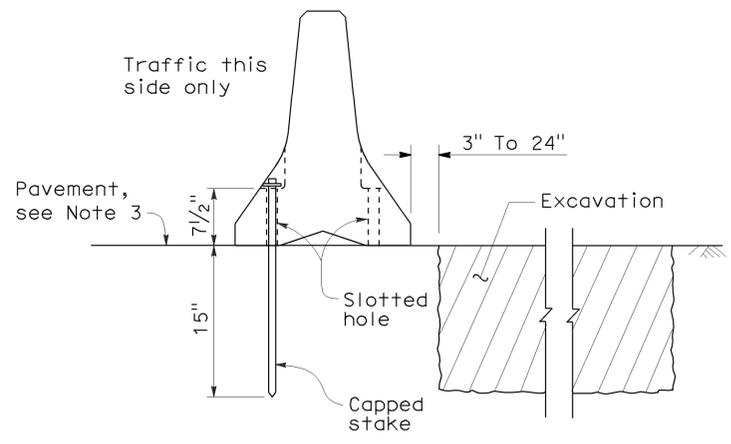
SECTION I-I

NOTES:

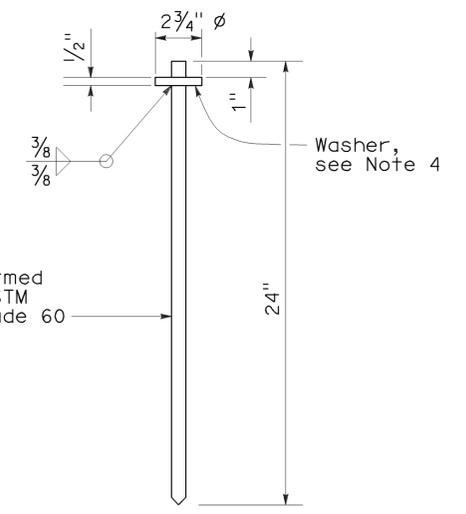
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by \Rightarrow .



RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION
See Note 2



SECTION J-J



CAPPED STAKE DETAIL

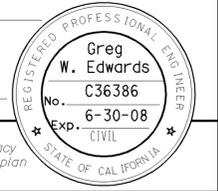
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY RAILING
(TYPE K)**
NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

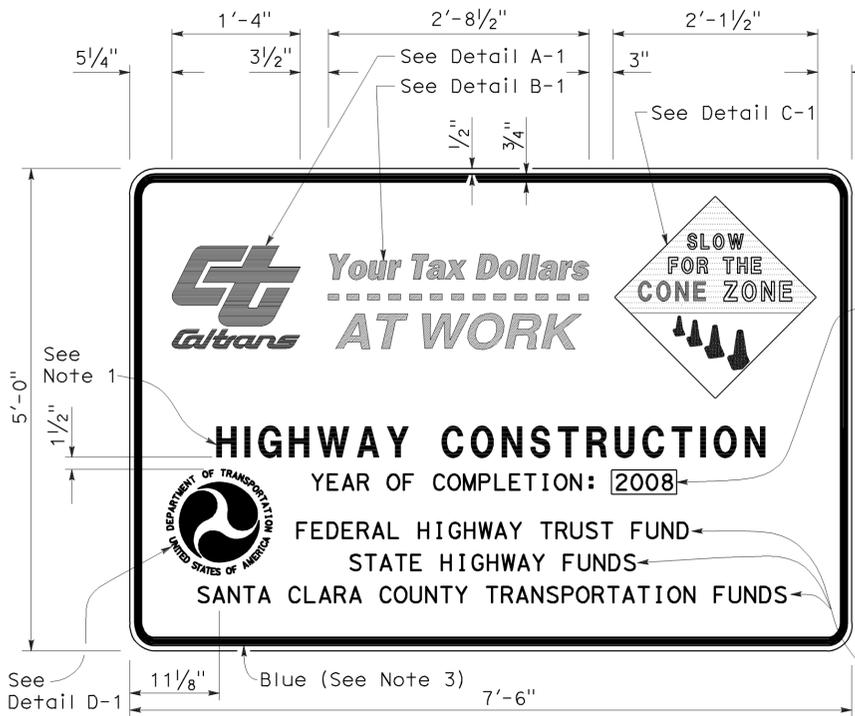
2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Yol	505	0.0/13.2	21	26

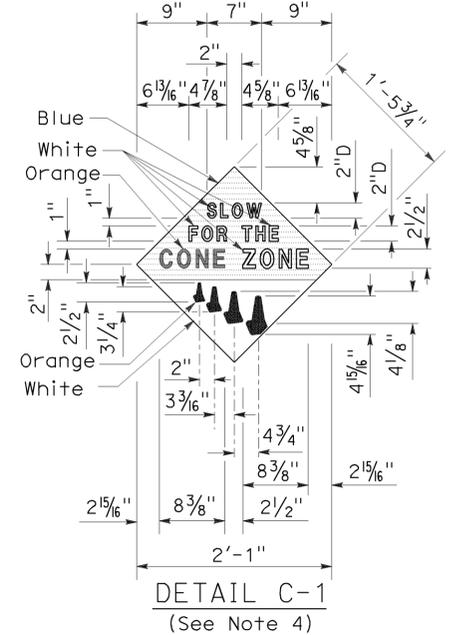
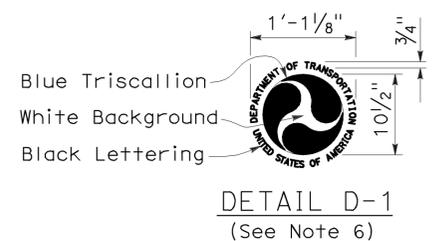
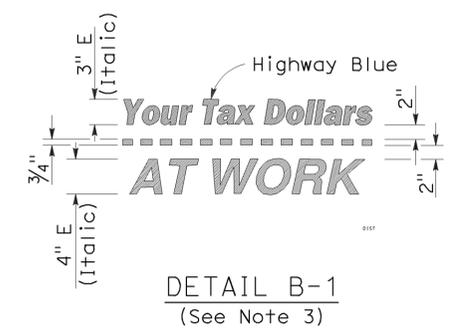
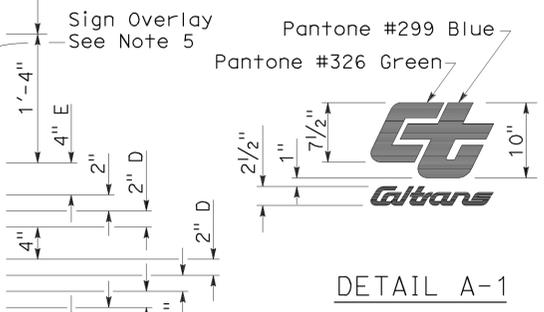
Greg W. Edwards
 REGISTERED CIVIL ENGINEER
 5-9-12
 PLANS APPROVAL DATE
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To accompany plans dated 5-9-12

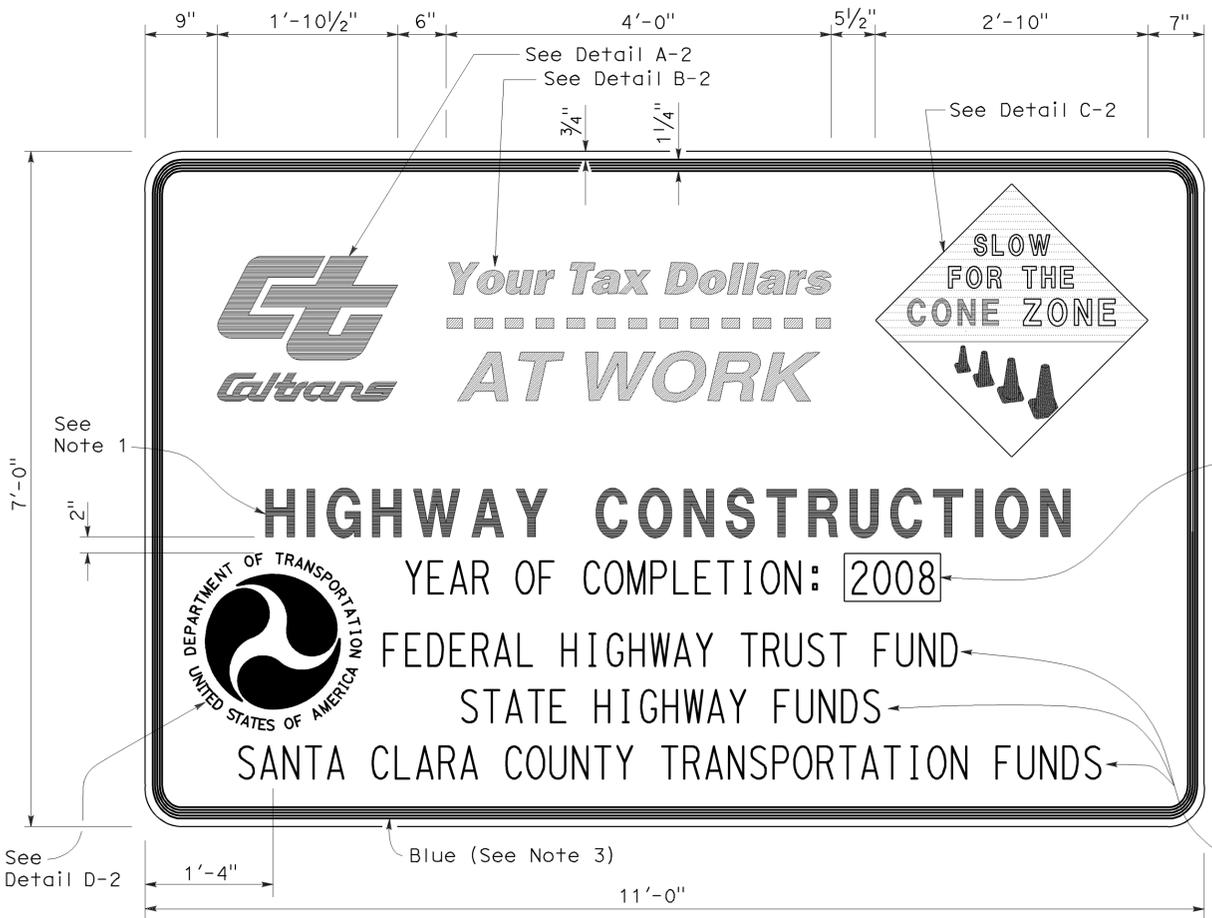


TYPE 1

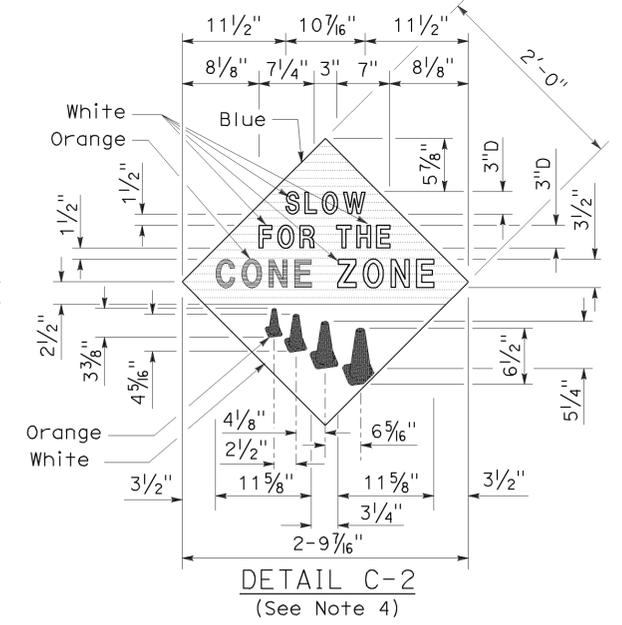
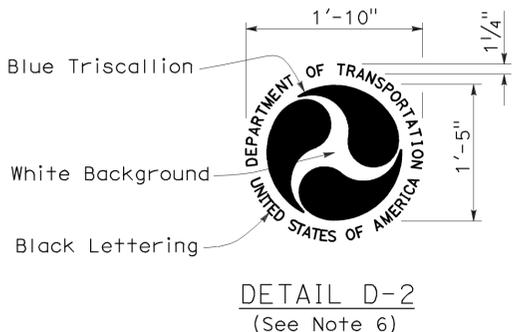
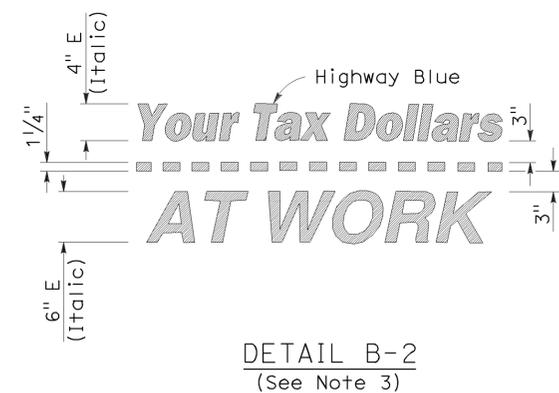
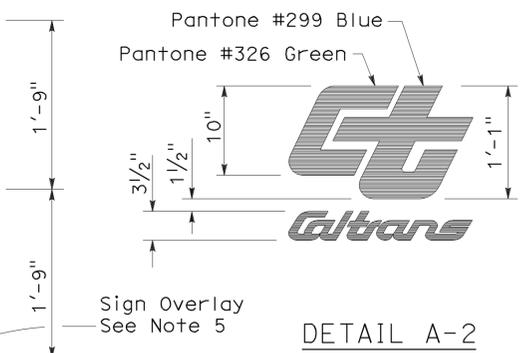


NOTES:

1. The sign messages shown for type of project and fund types are examples only. See the Special Provisions for the applicable type of project and fund type messages to be used.
2. Except as otherwise shown, the legend of sign shall be black on a white background (non-reflective).
3. The border of the signs and details "B-1" and "B-2" shall be blue (non-reflective).
4. The diamond in details "C-1" and "C-2" shall be blue for the background of message, "SLOW FOR THE CONE ZONE", and white background for the orange cones. The color and type of font for the "SLOW FOR THE CONE ZONE" message shall be: "SLOW" white D; "FOR THE" white D; "CONE" orange Arial font; "ZONE" white Arial font.
5. Year of completion of project construction shown on the overlay is an example only. See the Special Provisions.
6. Use when the Project involves Federal Highway Trust Fund.



TYPE 2



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS

NO SCALE

RSP T7 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN T7 DATED MAY 1, 2006 - PAGE 217 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T7

2006 REVISED STANDARD PLAN RSP T7

ELECTROLIERS

STANDARD TYPES	Symbol	Description
15, 15D		High mast light pole
15 STRUCTURE		Double Arm lighting standard
21, 21D STRUCTURE		Existing electrolier
30		Electrolier foundation (Future installation)
31		NOTES: 1. Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS when installed on other type standards or poles, unless otherwise specified. 2. Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified. 3. Variations noted adjacent to symbol on project plans.
32		
35		
36-20A		

- Electrolier (see project notes or project plans)
- Luminaire on wood pole

STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

PROPOSED	EXISTING	Description
BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	
MAS-4C	mas-4C	
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	YoI	505	0.0/13.2	22	26

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

5-9-12
PLANS APPROVAL DATE

Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 5-9-12

SOFFIT AND WALL MOUNTED LUMINAIRES

- Pendant, 70 W HPS unless otherwise specified.
- Flush, 70 W HPS unless otherwise specified.
- Wall surface, 70 W HPS unless otherwise specified.
- Existing soffit or wall luminaire to remain unmodified.
- Existing soffit or wall luminaire to be modified as specified.

NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	YoI	505	0.0/13.2	23	26

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

5-9-12
PLANS APPROVAL DATE

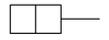
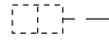
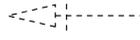
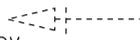
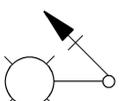
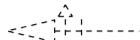
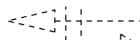
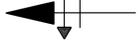
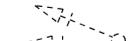
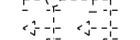
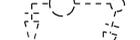
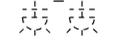
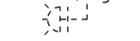
Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

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CONDUIT

PROPOSED	EXISTING	
---	---	Lighting Conduit, unless otherwise indicated or noted
---	---	Traffic signal conduit
-C-	-c-	Communication conduit
-T-	-t-	Telephone conduit
-F-	-f-	Fire alarm conduit
-FO-	-fo-	Fiber optic conduit
---	---	Conduit termination 
		Conduit riser in/on structure or service pole

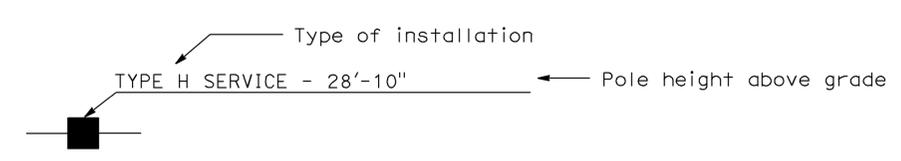
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" Indicates all non-arrow sections louvered "LG" Indicates louvered green section only "PV" Indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

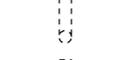
SERVICE EQUIPMENT

PROPOSED	EXISTING	
---OH---	---oh---	Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

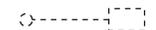
POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.
- Signal indication shall be LED.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(SYMBOLS AND ABBREVIATIONS)**

NO SCALE

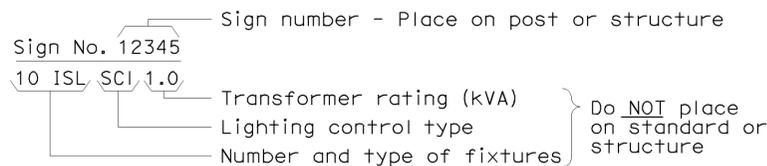
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

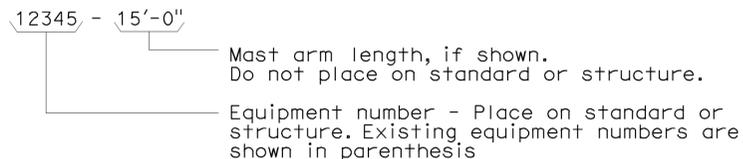
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

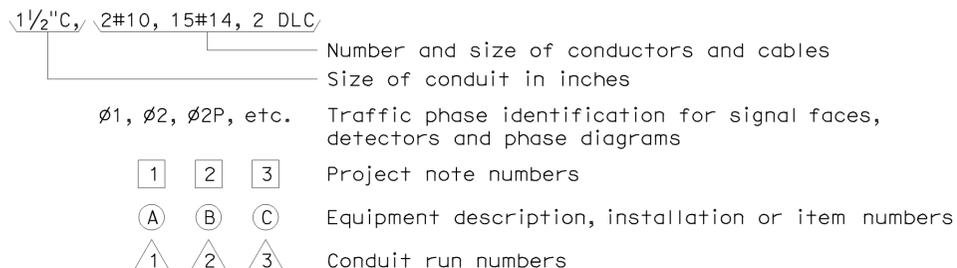
ILLUMINATED SIGN IDENTIFICATION NUMBER:



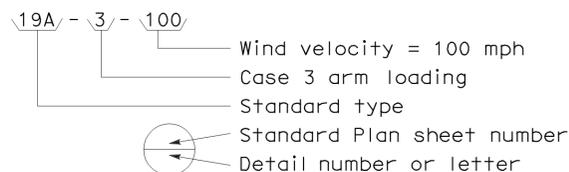
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



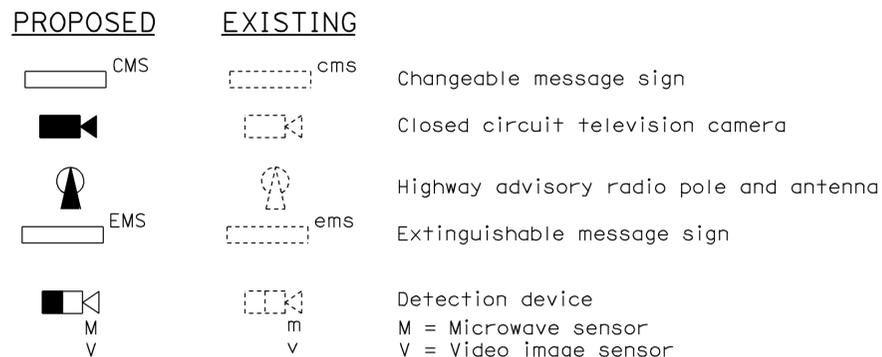
CONDUIT AND CONDUCTOR IDENTIFICATION:



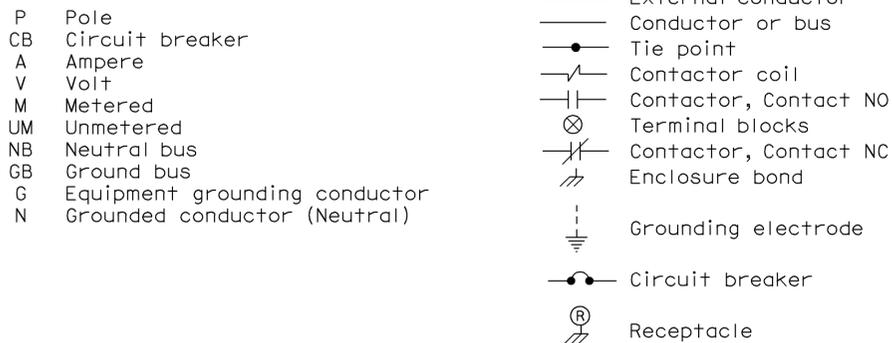
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



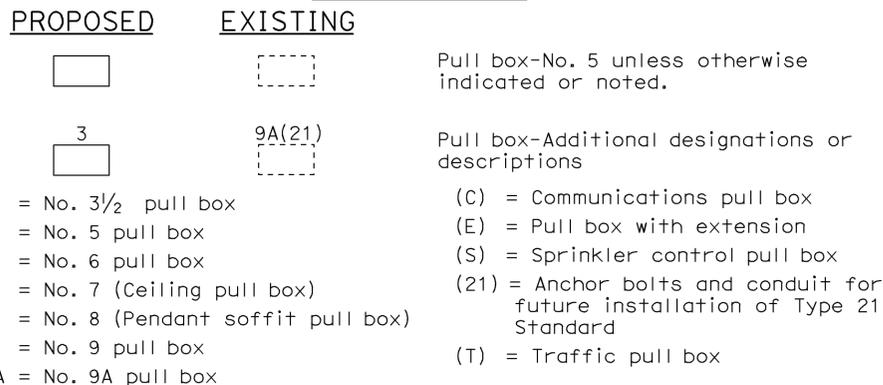
MISCELLANEOUS EQUIPMENT



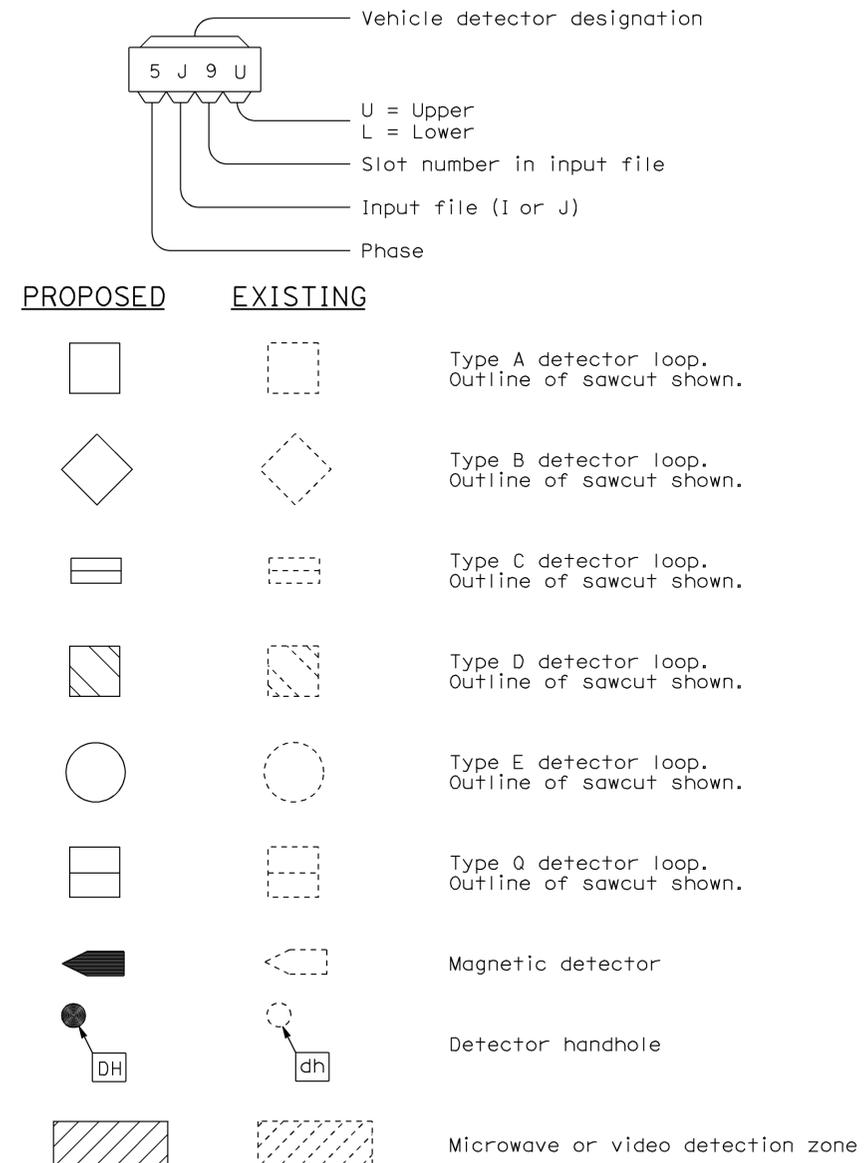
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

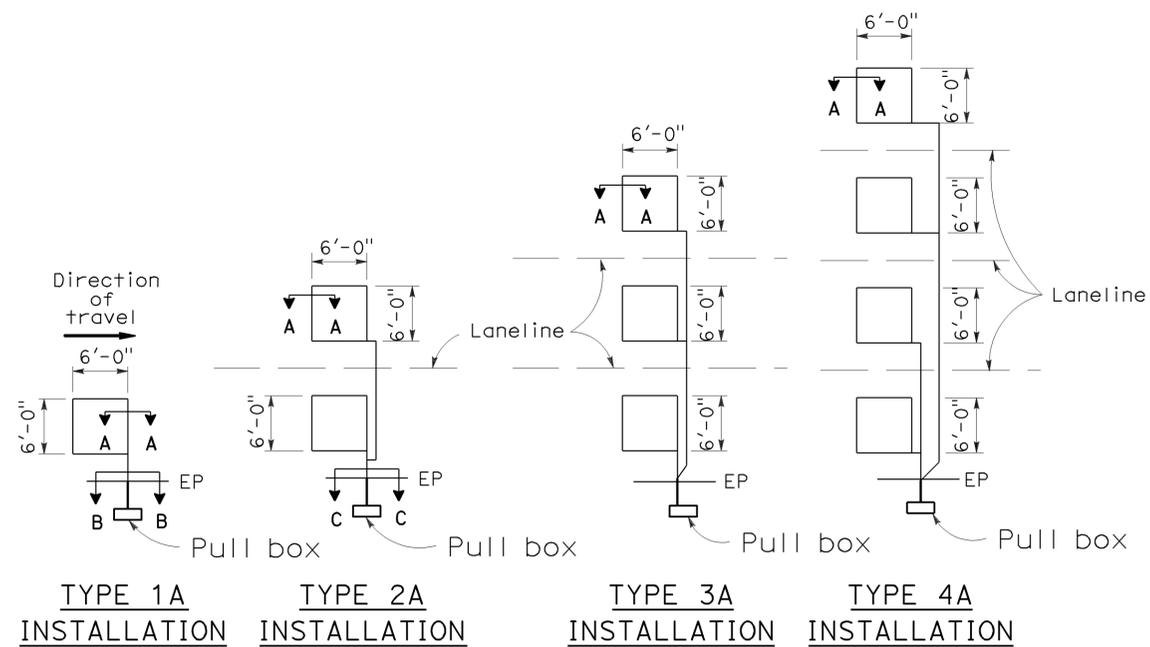
RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
 DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

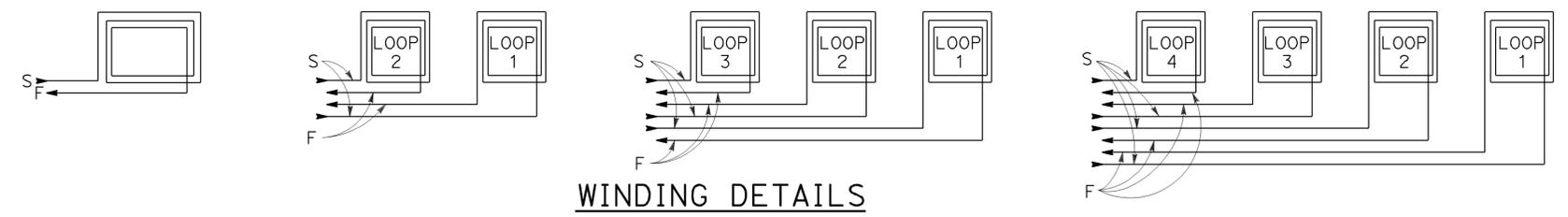
LOOP INSTALLATION PROCEDURE

- Loops shall be centered in lanes.
- Saw slots in pavement for loop conductors as shown in details.
- Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
- Bottom of saw slot shall be smooth with no sharp edges.
- Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
- Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
- Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
- Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
- No more than 2 twisted pairs shall be installed in one sawed slot.
- Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
- The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
- Fill slots as shown in details.
- Splice loop conductors to lead-in-cable. Splices shall be soldered.
- End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
- Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
- Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.



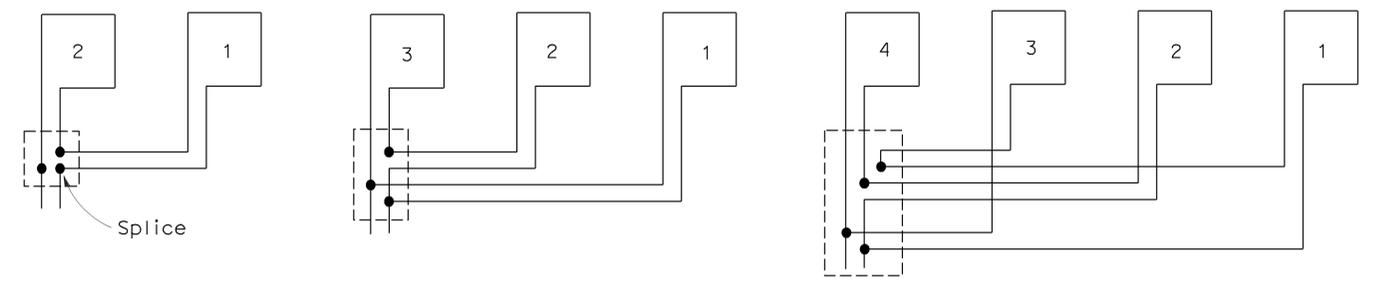
TYPE 1A INSTALLATION TYPE 2A INSTALLATION TYPE 3A INSTALLATION TYPE 4A INSTALLATION
SAWCUT DETAILS
 (Type A loop detector configurations illustrated)

- 1A thru 4A = 1 Type A loop configuration in each lane.
 - 1B thru 4B = 1 Type B loop configuration in each lane.
 - 1C = 1 Type C loop configuration entering lanes as required.
 - 1D thru 4D = 1 Type D loop configuration in each lane.
 - 1E thru 4E = 1 Type E loop configuration in each lane.
 - 1Q thru 4Q = 1 Type Q loop configuration in each lane.
- (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)

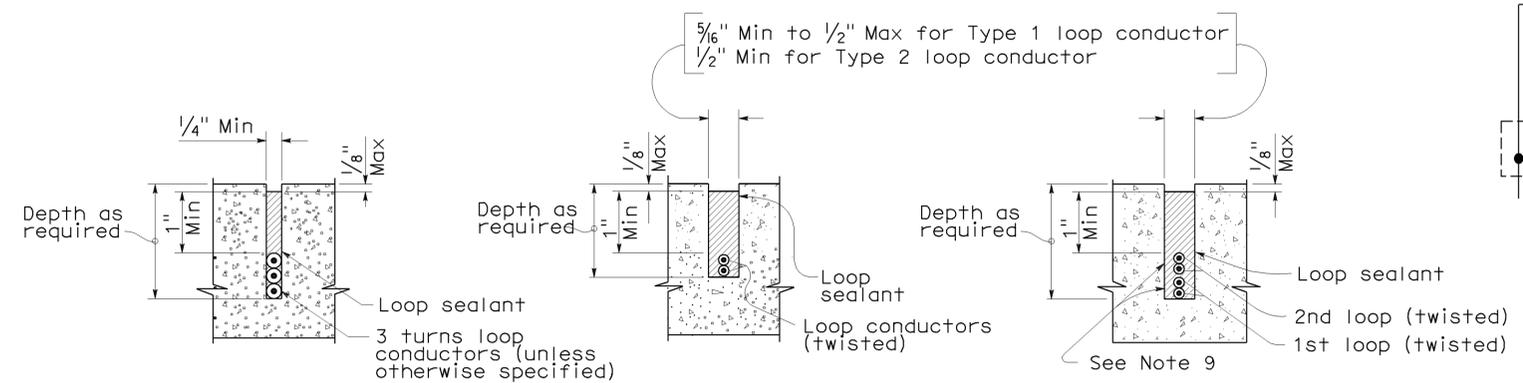


WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS
(Dashed lines represent the pull box)



SECTION A-A SECTION B-B SECTION C-C
SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

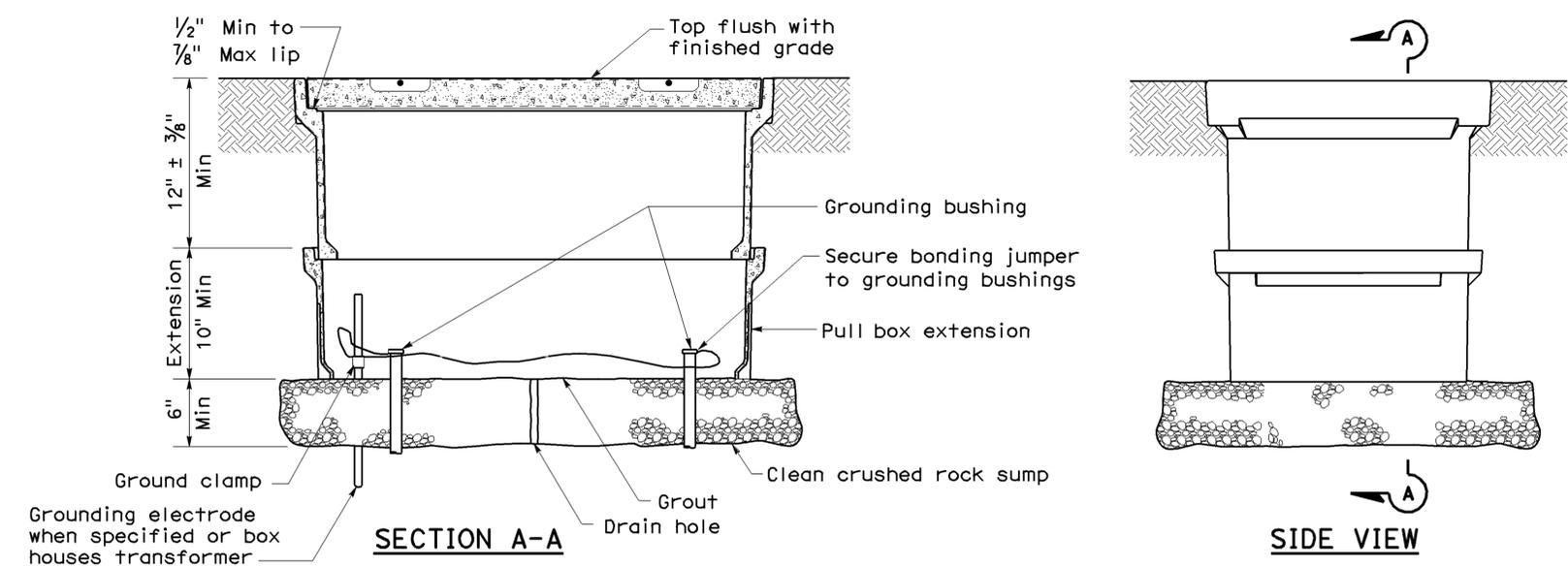
ELECTRICAL SYSTEMS (DETECTORS)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

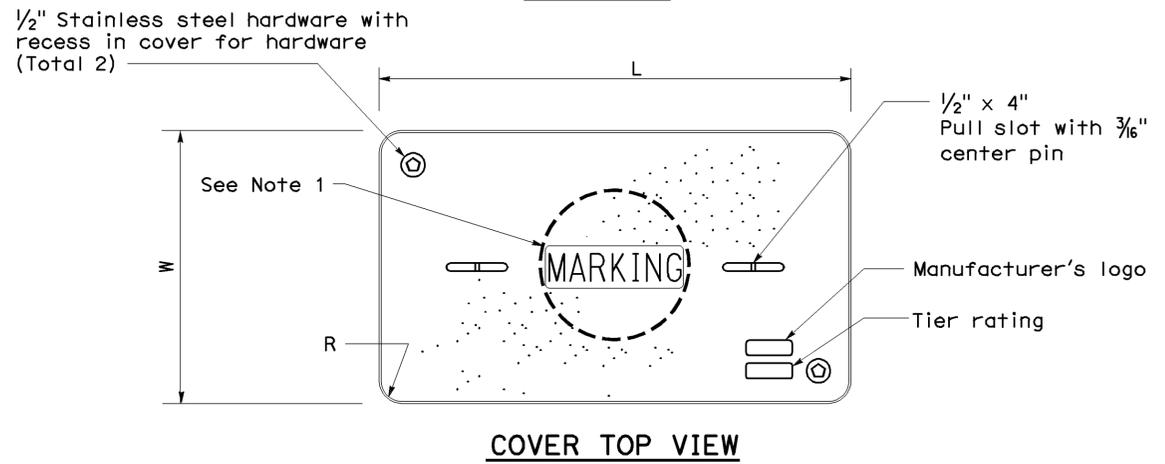
NO SCALE

RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A
DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

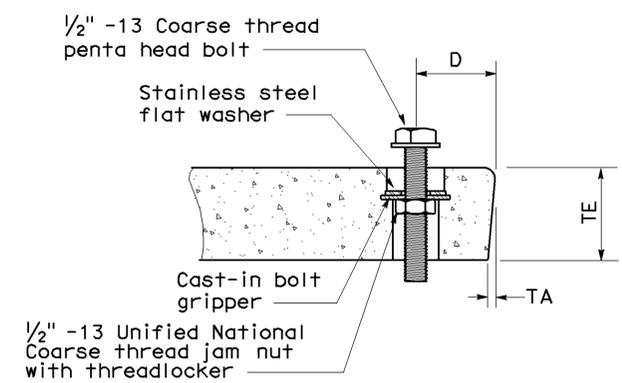
To accompany plans dated 5-9-12



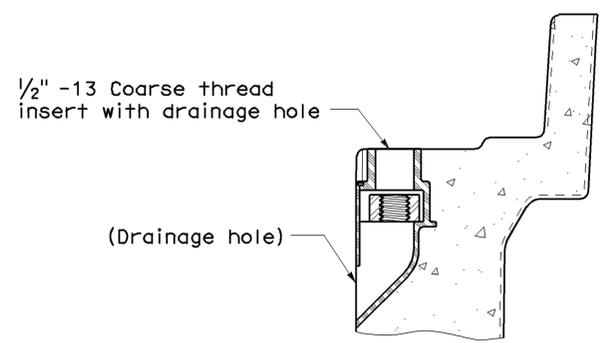
INSTALLATION DETAILS
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
(Or similar)



TYPICAL THREADED INSERT
(Or similar)

NOTES ON PULL BOXES:

- 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;
 - No. 3/2 pull box.
 - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - No. 5, 6, 9 or 9A pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATIONS" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communication line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions (L and W) plus 1/8" or greater.
- Covers and boxes must be interchangeable with California Standard. When interchanged with a standard, the top surfaces must be flush within 1/8". Top outside radius of covers and pull boxes must have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	Minimum Depth Box	Minimum Depth Extension	Maximum Weight	L	W	R	TE	TA	D	Maximum Weight
No. 3/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(PULL BOX)
 NO SCALE

NSP ES-8A DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP ES-8A