Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	1	26

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
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4-5	CONSTRUCTION DETAILS
6	CONSTRUCTION AREA SIGNS
7-8	PAVEMENT DELINEATION DETAILS
9-12	PAVEMENT DELINEATION QUANTITIES
13	SUMMARY OF QUANTITIES
14-17	ELECTRICAL PLANS
18-26	REVISED AND NEW STANDARD PLANS

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

STATE OF CALIFORNIA

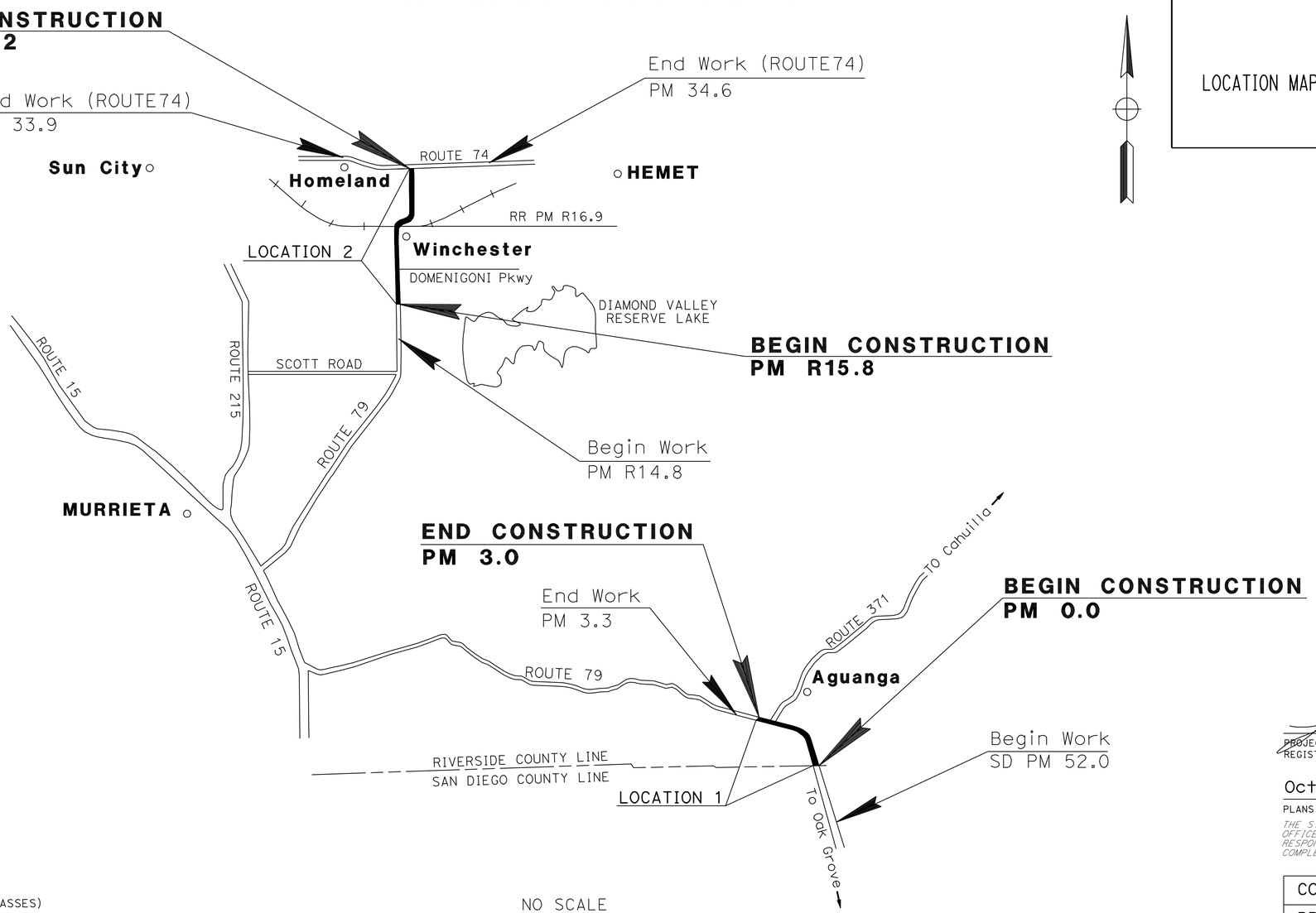
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN RIVERSIDE COUNTY
AND NEAR AGUANGA AND NEAR HOMELAND
FROM SAN DIEGO COUNTY LINE TO 0.7 MILE NORTH OF ROUTE 79/371 SEPARATION AND
FROM 0.1 MILE SOUTH OF DOMENIGONI PARKWAY TO ROUTE 79/74 SEPARATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATION MAP

Caltrans

PROJECT MANAGER: CATALINO PINING III

DESIGN ENGINEER: KEVIN H. CHEN

10-4-11
PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

October 17, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KEVIN H. CHEN — No. C70017 — Exp. 9/31/12 — 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.

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

NO SCALE

CONTRACT No.	08-0P7804
PROJECT ID	0800020030

LAST REVISION 10-04-11 — DATE PLOTTED => 13-OCT-2011 — TIME PLOTTED => 14:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	2	26

REGISTERED CIVIL ENGINEER 10-4-11 DATE

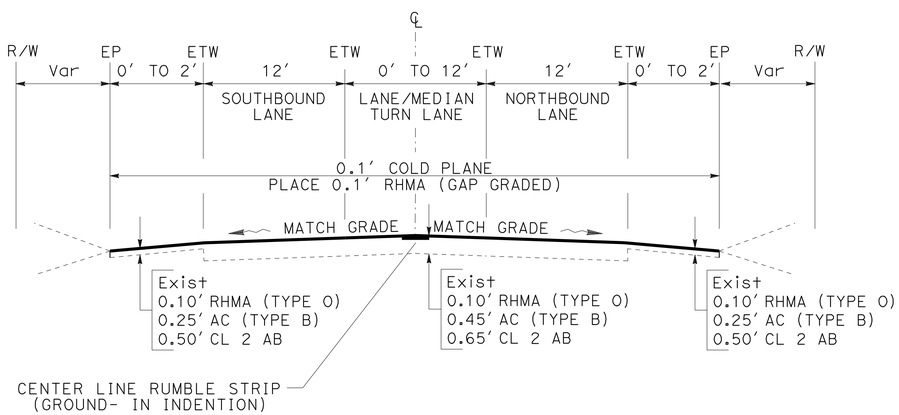
10-17-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KEVIN H. CHEN No. C70017 Exp. 9/30/12 CIVIL STATE OF CALIFORNIA

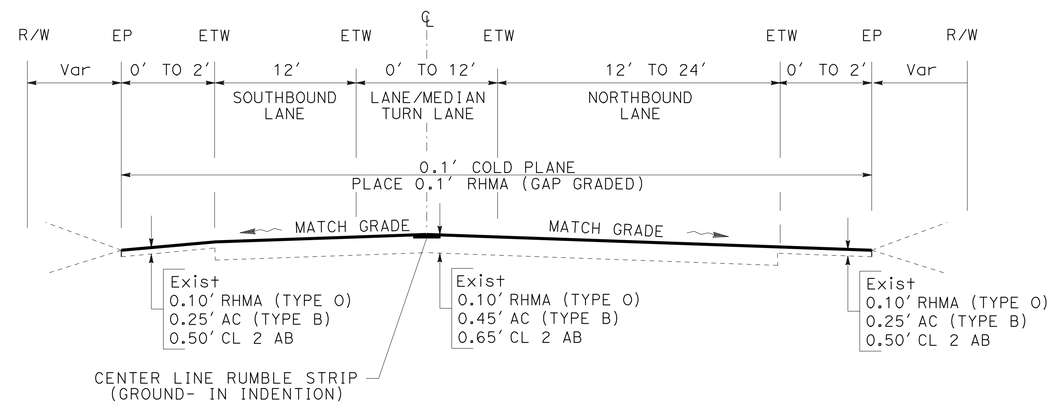
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

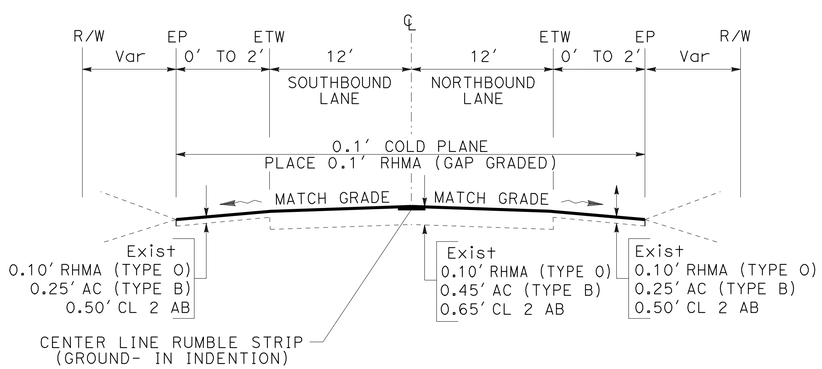
1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. MAINTAIN EXISTING SUPERELEVATION.
3. EXACT LIMITS OF WORK SHALL BE DETERMINED BY THE ENGINEER.
4. FOR RUMBLE STRIP DETAILS GROUND-IN INDENTATIONS AND LIMITS SEE STANDARD PLAN A40B AND CONSTRUCTION DETAIL SHEET C-2.
5. INSTALL GROUND-IN INDENTATIONS RUMBLE STRIP ONLY AT LOCATIONS WHERE CURRENTLY GROUND- IN INDENTATION Exist.



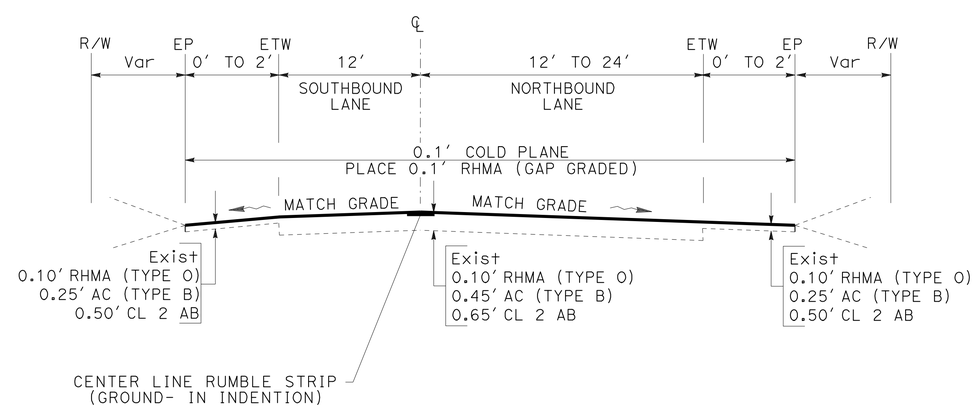
ROUTE 79
PM 0.2/0.4



ROUTE 79
PM 2.7/3.0



ROUTE 79
PM 0.0/0.2
PM 0.4/2.1
PM 2.3/2.5



ROUTE 79
PM 2.1/2.3
PM 2.5/2.7

TYPICAL CROSS SECTIONS
LOCATION 1
NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KEVIN CHEN
CALCULATED-DESIGNED BY: KEVIN H CHEN
CHECKED BY: IYAD NAMY
REVISED BY
DATE REVISED

LAST REVISION 10-04-11
DATE PLOTTED => 13-OCT-2011
TIME PLOTTED => 14:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	3	26

REGISTERED CIVIL ENGINEER 10-4-11 DATE

10-17-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KEVIN H. CHEN No. C70017 Exp. 9/30/12 CIVIL STATE OF CALIFORNIA

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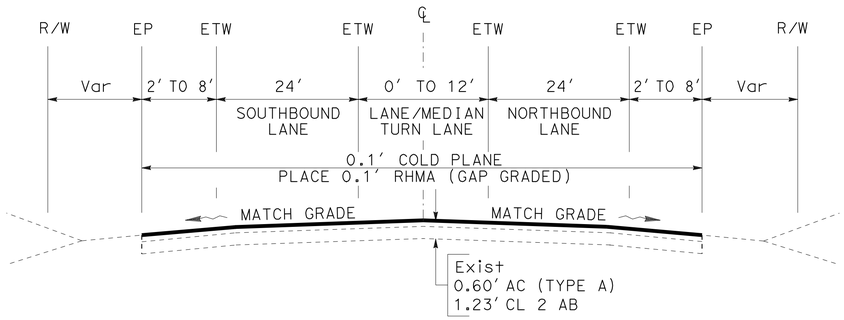
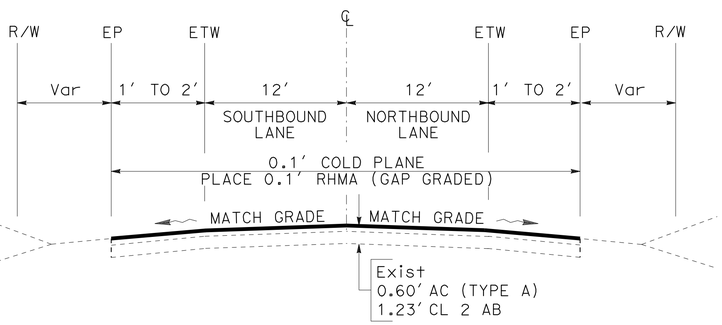
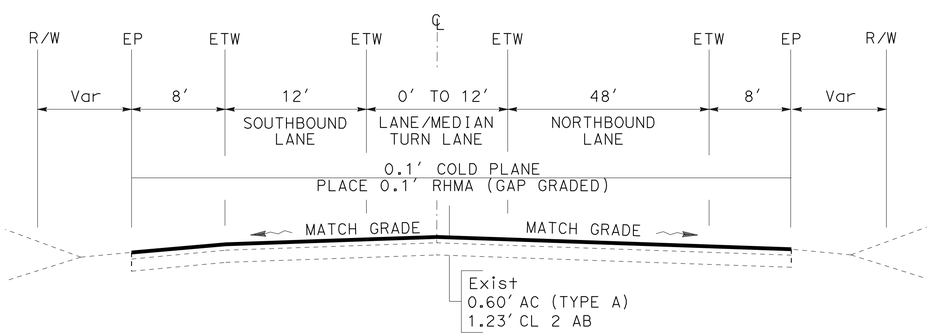


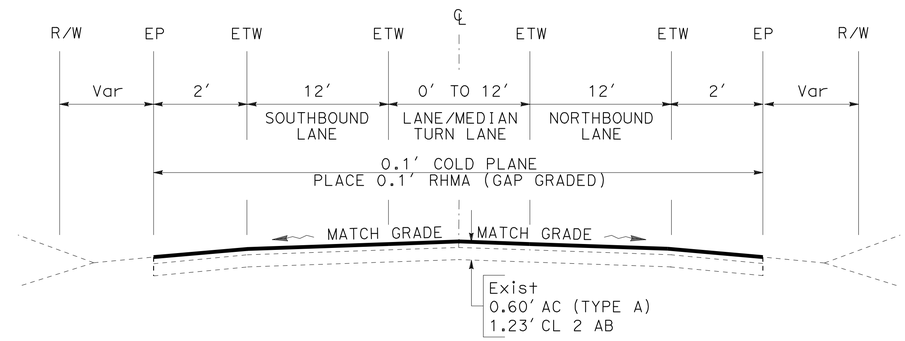
ROUTE 79
PM R16.6/R16.9



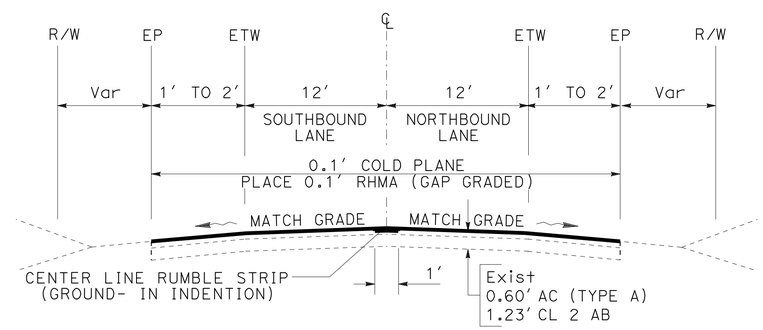
ROUTE 79
PM R16.0/R16.6
PM R18.0/R19.2



ROUTE 79
PM R15.8/R16.0



ROUTE 79
PM R17.0/R17.1



ROUTE 79
PM R16.9/R17.0
PM R17.1/R18.0

TYPICAL CROSS SECTIONS
LOCATION 2
NO SCALE

X-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KEVIN CHEN
CALCULATED-DESIGNED BY: KEVIN H CHEN
CHECKED BY: IYAD NAMY
REVISED BY
DATE REVISED

LAST REVISION 10-04-11 | DATE PLOTTED => 13-OCT-2011 | TIME PLOTTED => 14:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER 10-4-11 DATE

10-17-11
PLANS APPROVAL DATE

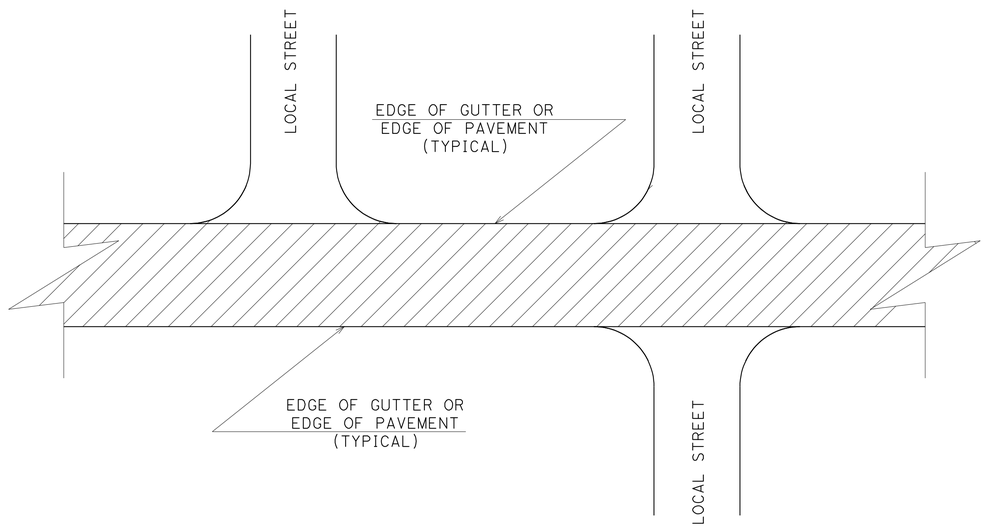
REGISTERED PROFESSIONAL ENGINEER KEVIN H. CHEN No. C70017 Exp. 9/30/12 CIVIL STATE OF CALIFORNIA

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.

LEGEND:

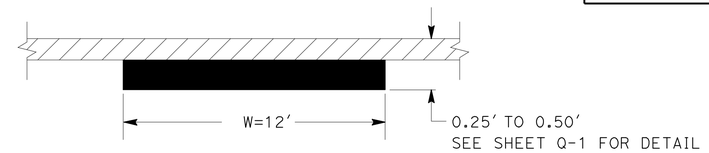
0.1′ COLD PLANE AND 0.1′ RHMA (GAP GRADED)

REPLACE ASPHALT CONCRETE PAVEMENT (DIG-OUTS)



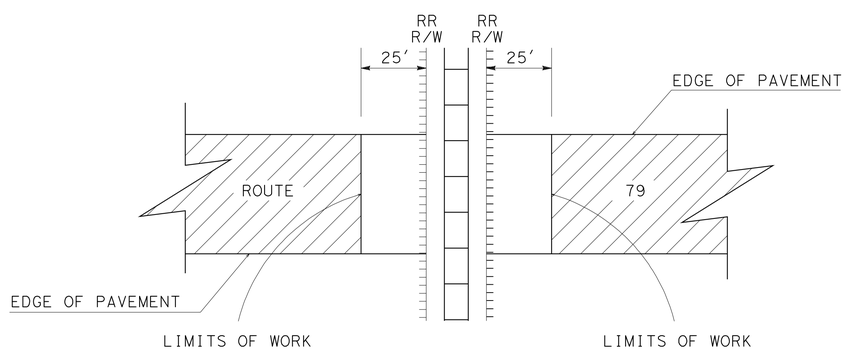
LIMIT OF WORK AT LOCAL STREET CROSSING

TYPICAL

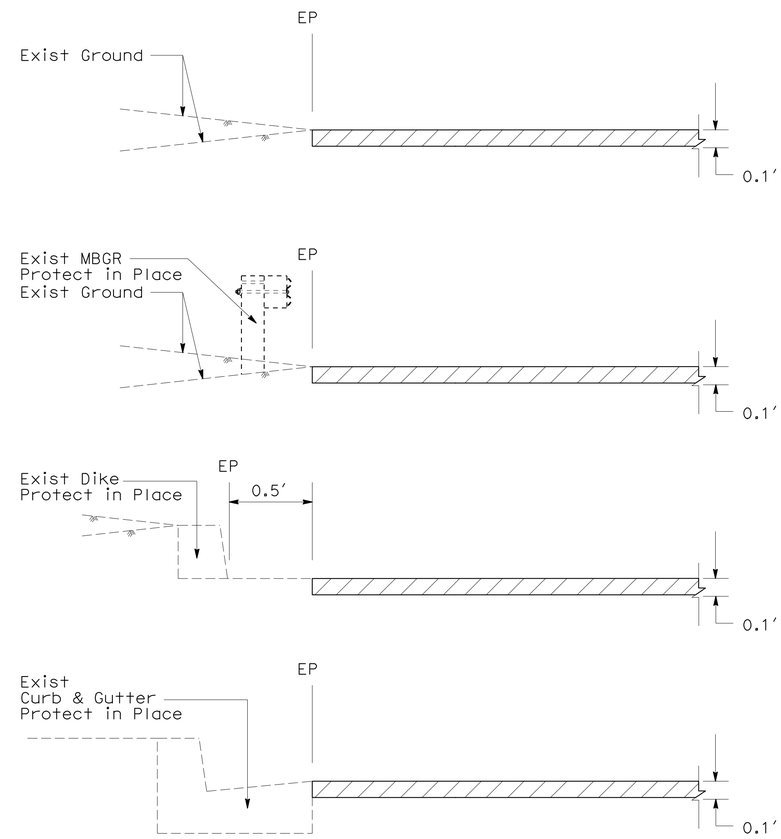


TYPICAL SECTION FOR REPLACE ASPHALT CONCRETE SURFACING

(DIG-OUTS)



LIMITS OF WORK AT RAILROAD GRADE CROSSING



EDGE OF PAVEMENT CONFORM DETAIL

TYPICAL

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KEVIN CHEN

CALCULATED-DESIGNED BY: KEVIN H CHEN
CHECKED BY: IYAD NAMY
REVISED BY
DATE REVISED

LAST REVISION 10-04-11 | DATE PLOTTED => 13-OCT-2011 | TIME PLOTTED => 14:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER 10-4-11 DATE

10-17-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KEVIN H. CHEN No. C70017 Exp. 9/30/12 CIVIL STATE OF CALIFORNIA

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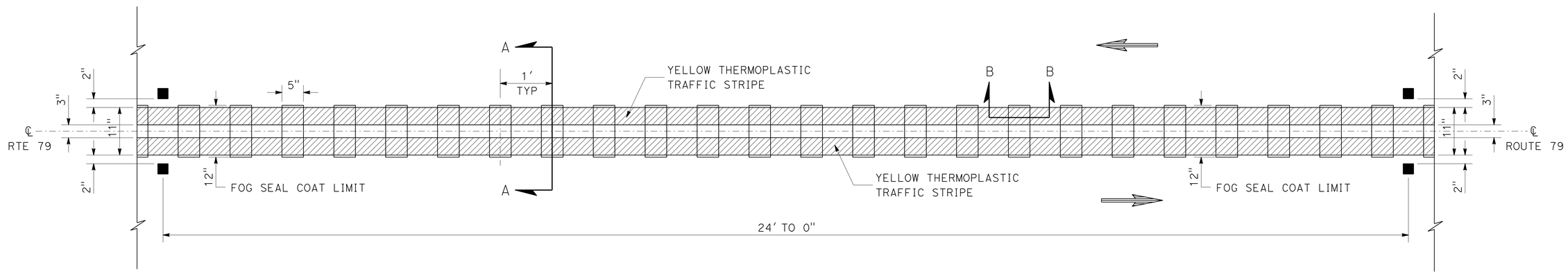
NOTE:

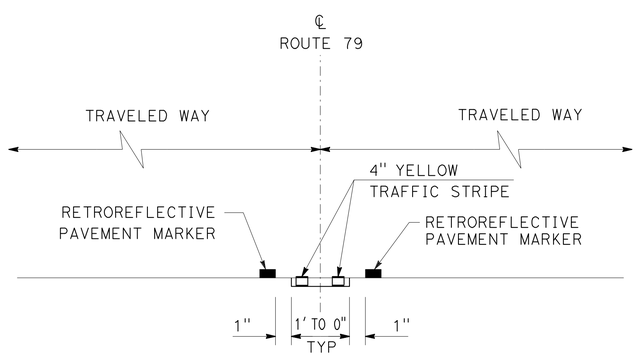
1. EXACT LIMITS SHALL BE DETERMINED BY ENGINEER.
2. FOR ADDITIONAL INFORMATION OF RUMBLE STRIP SEE STANDARD PLAN A40B.
3. FOR ADDITIONAL INFORMATION OF PAVEMENT DELINEATION SEE STANDARD PLAN A20A, A20B.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLAN SHEETS.

LEGEND:

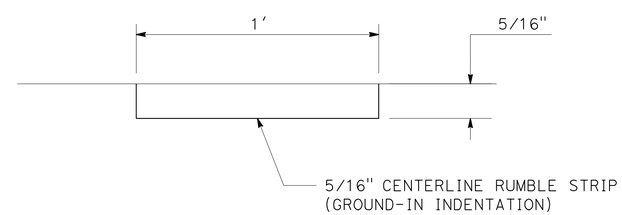
- RETROREFLECTIVE - RECESSED MARKERS
- 4" YELLOW THERMOPLASTIC TRAFFIC STRIPE
- DIRECTION OF TRAVEL



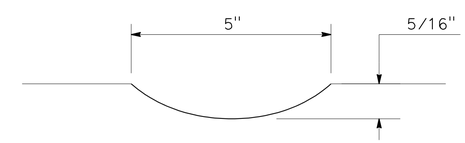
CENTERLINE RUMBLE STRIP
(GROUND-IN INDENTATION)
PLAN VIEW



CENTERLINE RUMBLE STRIP
(GROUND-IN INDENTATION)
TYPICAL



SECTION A-A



SECTION B-B

CONSTRUCTION DETAILS
NO SCALE
C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KEVIN CHEN
CALCULATED-DESIGNED BY: KEVIN H CHEN
CHECKED BY: IYAD NAMY
REVISED BY
DATE REVISED

LAST REVISION 10-04-11
DATE PLOTTED => 13-OCT-2011
TIME PLOTTED => 14:31

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REGISTERED CIVIL ENGINEER 10-4-11 DATE

10-17-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6/30/12 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. CONSTRUCTION AREA SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. REFER TO STANDARD PLANS T11, T13, T15 AND T17 FOR TRAFFIC CONTROL REQUIREMENTS.

LEGEND:

- CONSTRUCTION AREA
- CONSTRUCTION AREA SIGN (ONE POST)
- CONSTRUCTION AREA SIGN (TWO POST)
- (X) CONSTRUCTION AREA SIGN LETTER
- PORTABLE CHANGEABLE MESSAGE SIGN

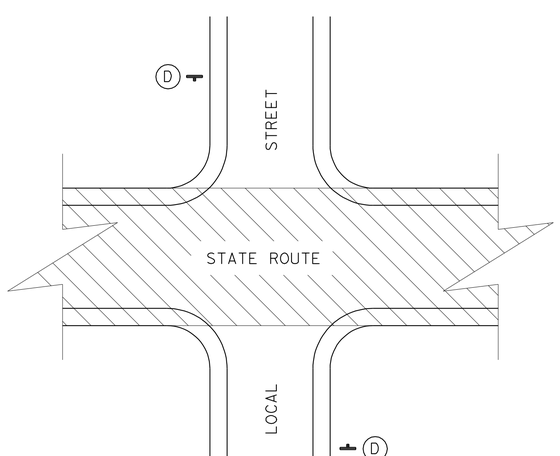
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	No. OF POST-SIZE AND LENGHT	No. OF SIGNS (N)	SIGN MESSAGE
(A)	C40 (CA)	144" x 60"	2 - 6" x 8"	3	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES
(B)	C11 (CA)	90" x 48"	2 - 6" x 6"	2	ROAD CONSTRUCTION NEXT 4 MILES
(C)	C11 (CA)	90" x 48"	2 - 6" x 6"	2	ROAD CONSTRUCTION NEXT 3 MILES
(D)*	W20-1	36" x 36"	1 - 4" x 6"	23	ROAD WORK AHEAD
(E)	C14 (CA)	48" x 24"	2 - 4" x 6"	5	END ROAD WORK

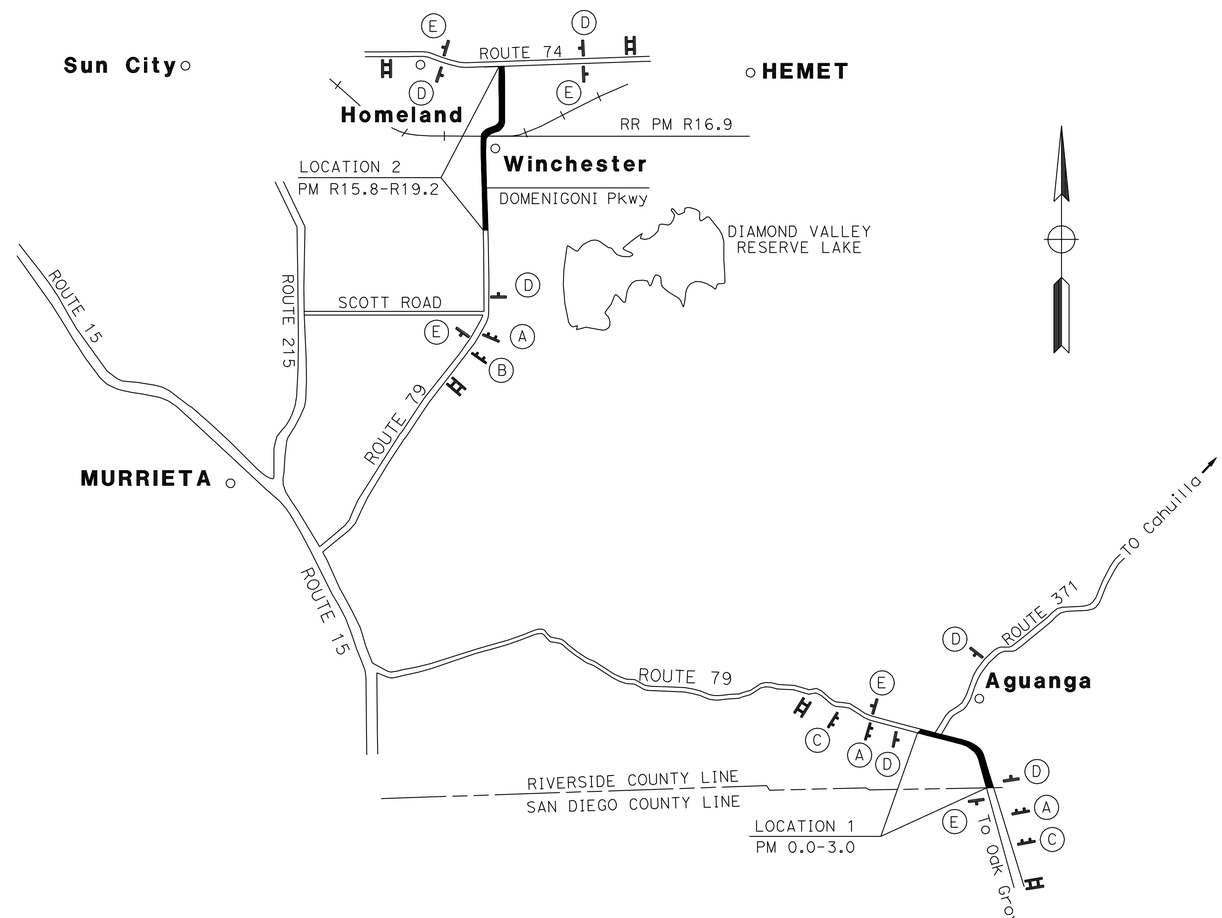
* INCLUDES CONSTRUCTION AREA SIGNS SHOWN ON PLANS AND AT LOCAL INTERSECTIONS.
(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

PORTABLE CHANGEABLE MESSAGE SIGN

QUANTITY
5



LOCAL INTERSECTION



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: HORMUZD SETHNA
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 13-OCT-2011
TIME PLOTTED => 14:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	7	26

REGISTERED CIVIL ENGINEER 10-4-11 DATE

PLANS APPROVAL DATE 10-17-11

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6/30/12 CIVIL STATE OF CALIFORNIA

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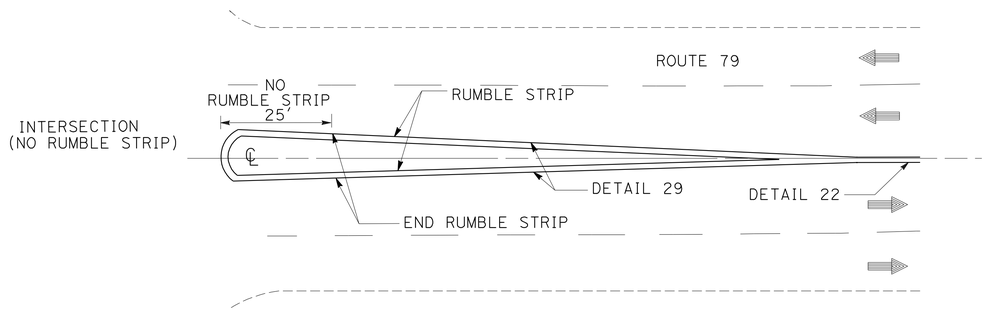
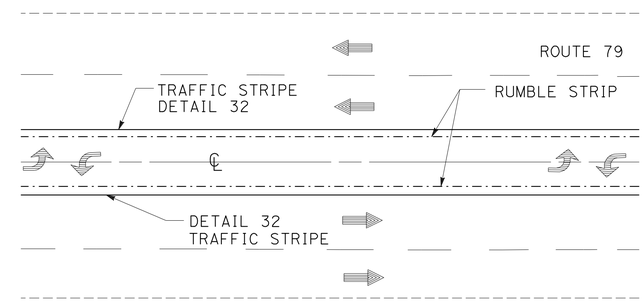


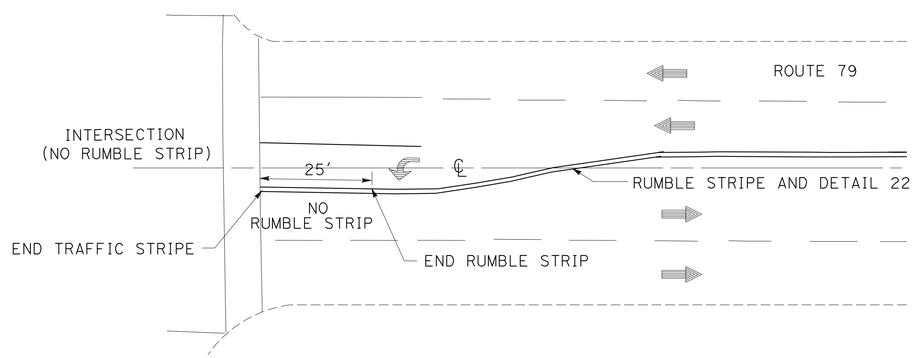
TYPICAL RUMBLE STRIP PLACEMENT WITHIN MEDIAN STRIPED ISLAND

RUMBLE STRIP TO BE PLACED ALONG MEDIAN STRIPED ISLAND, EXCEPT 25' PRIOR TO INTERSECTION, THERE SHALL BE NO RUMBLE STRIP.
DETAIL 29 TO BE RESTRIPE AT EXISTING LOCATION.



TYPICAL RUMBLE STRIP PLACEMENT WITHIN TWO WAY LEFT-TURN LANES

RUMBLE STRIP TO BE PLACED ALONG DETAIL 32, TWO WAY LEFT TURN LANE TRAFFIC STRIPE.
RESTRIPE DETAIL 32 AT EXISTING LOCATION.



TYPICAL RUMBLE STRIP PLACEMENT WITHIN LEFT-TURN POCKET

RUMBLE STRIP SHALL FOLLOW EXISTING BAY TAPER AND LEFT TURN POCKET DELINEATION,
EXCEPT 25' PRIOR TO INTERSECTION, THERE SHALL BE NO RUMBLE STRIP.
RESTRIPE EXISTING DETAIL 22.

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: HORMUZD SETHNA
CHECKED BY: CHRIS HARDIMON
REVISED BY
DATE REVISED

LAST REVISION 10-04-11
DATE PLOTTED => 13-OCT-2011
TIME PLOTTED => 14:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER 10-4-11 DATE

PLANS APPROVAL DATE 10-17-11

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6/30/12 CIVIL STATE OF CALIFORNIA

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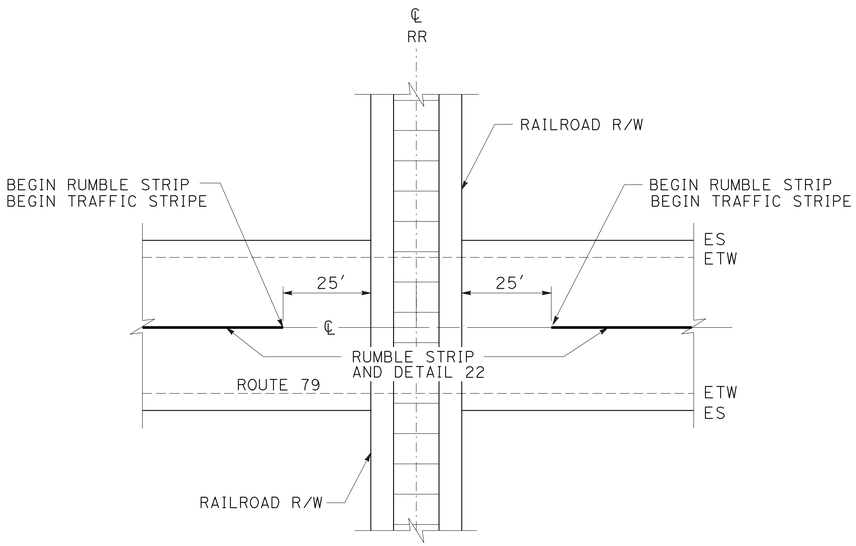
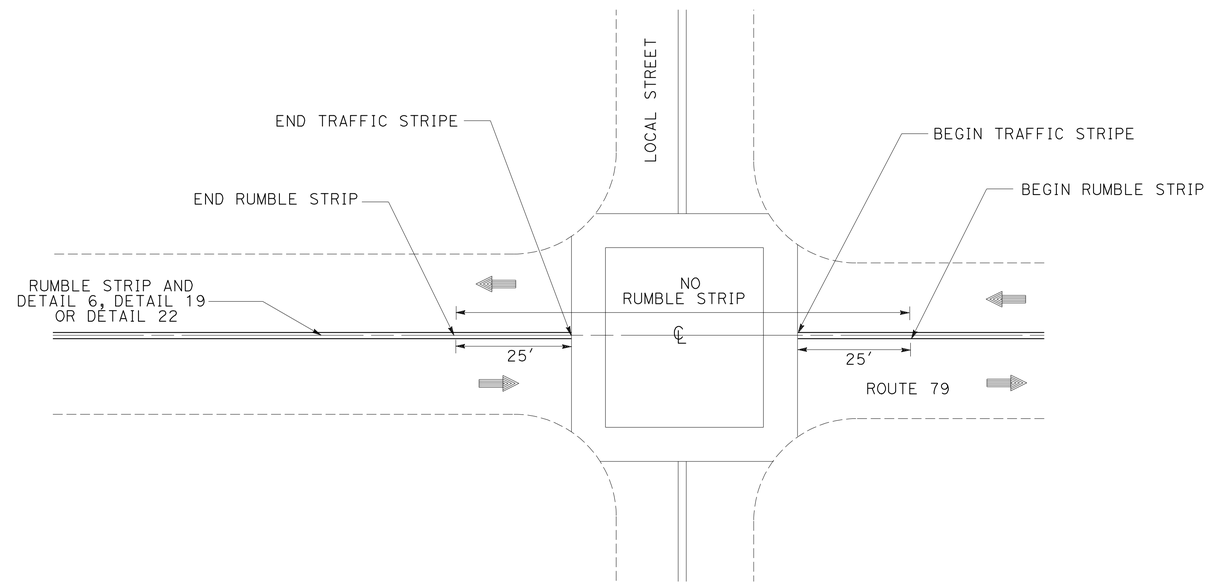


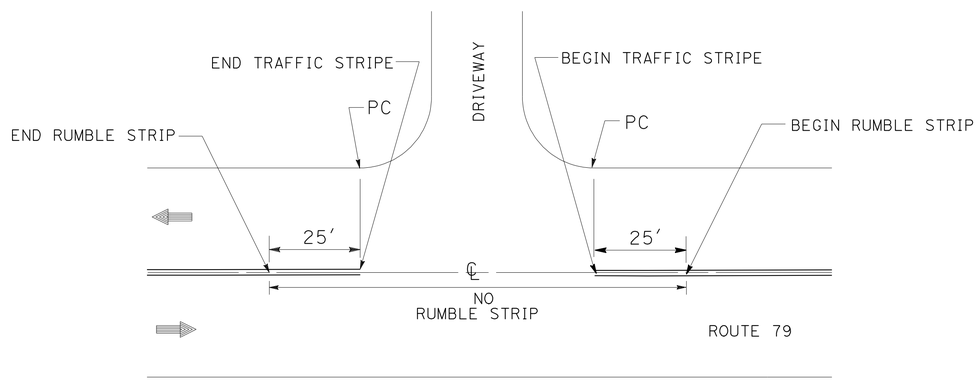
RUMBLE STRIP PLACEMENT AT RAILROAD

RUMBLE STRIP TO BE PLACED ALONG EXISTING CENTERLINE TRAFFIC STRIPE,
EXCEPT 25′ NORTH OF RAILROAD TRACK, THERE SHALL BE NO RUMBLE STRIP OR TRAFFIC STRIPE.



TYPICAL RUMBLE STRIP PLACEMENT WITHIN CENTERLINE AND NO PASSING ZONE TRAFFIC STRIPE

RUMBLE STRIP TO BE PLACED ALONG EXISTING CENTERLINE TRAFFIC STRIPE,
EXCEPT 25′ PRIOR TO INTERSECTION, THERE SHALL BE NO RUMBLE STRIP.
NEW TRAFFIC STRIPE TO BE INSTALLED ON TOP OF RUMBLE STRIP.



TYPICAL RUMBLE STRIP PLACEMENT WITHIN DRIVEWAY

RUMBLE STRIP TO BE PLACED ALONG EXISTING CENTERLINE TRAFFIC STRIPE,
EXCEPT 25′ PRIOR TO DRIVEWAY, THERE SHALL BE NO RUMBLE STRIP.

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-2

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: HORMUZD SETHNA
REVISED BY
DATE REVISED

LAST REVISION 10-04-11
DATE PLOTTED => 13-OCT-2011
TIME PLOTTED => 14:32

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PLANS APPROVAL DATE 10-17-11

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6/30/12 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

LOCATION	DETAIL No. OR PAVEMENT MARKING	PAVEMENT MARKER				THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING
		NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE						
		A	D	G	H	4" YELLOW	4" WHITE	8" WHITE	
		EA	EA	EA	EA	FT	FT	FT	SQFT
FROM PM 0.00 TO 3.00	27B						31,680		
FROM PM 0.00 TO 0.18	22		80			950			
FROM PM 0.18 TO 0.26	29		36			845			
FROM PM 0.27 TO 0.30 (SOUTHBOUND)	38			7				158	
FROM PM 0.27 TO 0.30	22		16			158			
FROM PM 0.30 TO 0.41	29		52			1,162			
FROM PM 0.41 TO 2.12	22		756			9,029			
FROM PM 2.11 TO 2.12 (NORTHBOUND)	38A							53	
FROM PM 2.14 TO 2.69	22		244			2,904			
FROM PM 2.69 TO 2.78	29		40			950			
FROM PM 2.79 TO 2.88	22		40			475			
FROM PM 2.79 TO 2.86 (NORTHBOUND)	38			16				370	
FROM PM 2.79 TO 2.87 (SOUTHBOUND)	38			18				422	
FROM PM 2.88 TO 2.97	29		40			950			
FROM PM 2.97 TO 3.00	22		16			158			
PM 0.27 (SOUTHBOUND)	2-ARROW TYPE IV (L)								30
PM 1.93 (NORTHBOUND)	STOP								22
PM 1.93 (NORTHBOUND)	AHEAD								31
PM 1.97 (NORTHBOUND)		70							
PM 2.04 (NORTHBOUND)		70							
PM 2.08 (NORTHBOUND)		70							
PM 2.12 (NORTHBOUND)	2-STOP								44
PM 2.12 (NORTHBOUND)	ARROW TYPE IV (R)								15
PM 2.12 (NORTHBOUND)	ARROW TYPE I (10FT)								14
PM 2.12 (NORTHBOUND)	LIMIT LINE								35
PM 2.13 (WESTBOUND)	LIMIT LINE								35
PM 2.14 (SOUTHBOUND)	LIMIT LINE								12
PM 2.14 (SOUTHBOUND)	STOP								22
PM 2.18 (SOUTHBOUND)		70							
PM 2.22 (SOUTHBOUND)		70							
PM 2.29 (SOUTHBOUND)		70							
PM 2.32 (SOUTHBOUND)	STOP								22
PM 2.32 (SOUTHBOUND)	AHEAD								31
PM 2.79 (SOUTHBOUND)	3-ARROW TYPE IV (L)								45
PM 2.79 (NORTHBOUND)	3-ARROW TYPE VI (L)								126
PM 2.79 (WESTBOUND)	LIMIT-LINE								20
SUBTOTAL			1,320	41		17,581	31,680	1,003	
SHEET TOTAL		420	1,361			50,264			504

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: CHRIS HARDIMON

CHECKED BY: HORMUZD SETHNA

REVISED BY

DATE REVISED

PAVEMENT DELINEATION QUANTITIES
PDQ-1

LAST REVISION 10-04-11

DATE PLOTTED => 13-OCT-2011

TIME PLOTTED => 14:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	10	26

REGISTERED CIVIL ENGINEER 10-4-11 DATE

PLANS APPROVAL DATE 10-17-11

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6/30/12 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 DELINEATION QUANTITIES

LOCATION	DETAIL No. OR PAVEMENT MARKING	PAVEMENT MARKER				THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING
		NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE						
		A	D	G	H	4" YELLOW	4" WHITE	8" WHITE	
		EA	EA	EA	EA	FT	FT	FT	SQFT
FROM PM 15.80 TO 19.20	27B						35,904		
FROM PM 15.80 TO 15.88(NO PASSING SB)	19		9		18	422			
FROM PM 15.88 TO 15.98	22		44			528			
FROM PM 15.98 TO 16.04	29		28			634			
FROM PM 16.04 TO 16.11	22		32			370			
FROM PM 16.04 TO 16.11(NORTHBOUND)	38			16				370	
FROM PM 16.02 TO 16.11(NORTHBOUND)	9			10			475		
FROM PM 16.02 TO 16.11(NORTHBOUND)	38			20			-	475	
FROM PM 16.07 TO 16.11(SOUTHBOUND)	9			5			211		
FROM PM 16.11 TO 16.14(EASTBOUND/NORTHBOUND)	27C						158		
FROM PM 16.11 TO 16.14(WESTBOUND/SOUTHBOUND)	27C						158		
FROM PM 16.15 TO 16.20(SOUTHBOUND)	38			12				264	
FROM PM 16.15 TO 16.22(SOUTHBOUND)	9			8			370		
FROM PM 16.15 TO 16.20(SOUTHBOUND)	38			12				264	
FROM PM 16.15 TO 16.30	29		68			1,584			
FROM PM 16.15 TO 16.18(NORTHBOUND)	9			4			158		
FROM PM 16.30 TO 16.39(NO PASSING NB)	19		10		20	475			
FROM PM 16.39 TO 16.43(NO PASSING SB)	19		5		10	211			
FROM PM 16.43 TO 16.59	6		18			845			
FROM PM 16.59 TO 16.63(NO PASSING NB)	19		5		10	211			
FROM PM 16.64 TO 16.68	19		5		10	211			
FROM PM 16.68 TO 16.78(NO PASSING SB)	6		12			528			
FROM PM 16.78 TO 16.80	22		12	-	-	106	-	-	
FROM PM 16.82 TO 16.85(SOUTHBOUND)	36		-	14	-	-	-	317	
FROM PM 16.82 TO 16.85	29		16	-	-	317	-	-	
FROM PM 16.82 TO 16.86(NORHBOUND)	9		-	5	-	-	211	-	
FROM PM 16.85 TO 16.88	22		16	-	-	158	-	-	
FROM PM 16.86 TO 16.88(NORTHBOUND)	38		-	5	-	-	-	106	
FROM PM 16.86 TO 16.88(NORTHBOUND)	38		-	5	-	-	-	106	
FROM PM 16.85 TO 16.88(SOUTHBOUND)	37		-	12	-	-	-	158	
FROM PM 16.90 TO 16.92(SOUTHBOUND)	38		-	5	-	-	-	106	
FROM PM 16.90 TO 16.92(SOUTHBOUND)	38		-	5	-	-	-	106	
FROM PM 16.90 TO 16.93	22		16	-	-	158	-	-	
FROM PM 16.90 TO 16.92(NORTHBOUND)	9		-	3	-	-	106	-	
FROM PM 16.92 TO 16.96(SOUTHBOUND)	9		-	5	-	-	211	-	
FROM PM 16.93 TO 16.96	32		20	-	-	317	-	-	
FROM PM 16.97 TO 16.98(SOUTHBOUND)	38		-	3	-	-	-	53	
FROM PM 16.97 TO 17.03	22		28	-	-	317	-	-	
FROM PM 17.01 TO 17.03(NORTHBOUND)	38		-	5	-	-	-	106	
FROM PM 17.04 TO 17.10	22		28	-	-	317	-	-	
FROM PM 17.12 TO 17.28	22		72	-	-	844	-	-	
FROM PM 17.26 TO 17.28(NORTHBOUND)	38		-	5	-	-	-	106	
FROM PM 17.29 TO 17.30(SOUTHBOUND)	38		-	3	-	-	-	53	
FROM PM 17.29 TO 17.94	22		288	-	-	3,432	-	-	
SUBTOTAL			732	162	68	11,985	37,962	2,590	
SHEET TOTAL			962			52,537			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: CHRIS HARDIMON

CHECKED BY: HORMUZD SETHNA

REVISED BY / DATE REVISED

PAVEMENT DELINEATION QUANTITIES

PDQ-2

LAST REVISION 10-04-11 | DATE PLOTTED => 13-OCT-2011 | TIME PLOTTED => 14:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	11	26

REGISTERED CIVIL ENGINEER 10-4-11 DATE

PLANS APPROVAL DATE 10-17-11

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6/30/12 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 DELINEATION QUANTITIES

LOCATION	DETAIL No. OR PAVEMENT MARKING	PAVEMENT MARKER				THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING
		NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE						
		A	D	G	H	4" YELLOW	4" WHITE	8" WHITE	
		EA	EA	EA	EA	FT	FT	FT	SQFT
FROM PM 17.94 TO 18.06(NO PASSING SB)	19		14		28	634			
FROM PM 18.06 TO 18.12	6		7			317			
FROM PM 18.12 TO 18.26	22		64			739			
FROM PM 18.26 TO 18.41	6		17			792			
FROM PM 18.41 TO 18.47(NO PASSING NB)	19		7		14	317			
FROM PM 18.47 TO 18.50(NO PASSING SB)	19		4		8	158			
FROM PM 18.50 TO 18.60	6		12			528			
FROM PM 18.60 TO 18.90(NO PASSING NB)	19		33		66	1,584			
FROM PM 18.90 TO 19.20	22		136			1,584			
FROM PM 19.07 TO 19.20(NORTHBOUND)	38			29				687	
PM 15.92 (NORTHBOUND)	SIGNAL								32
PM 15.92 (NORTHBOUND)	AHEAD								31
PM 16.02 (NORTHBOUND)	4-ARROW TYPE V								132
PM 16.02 (NORTHBOUND)	3-ARROW TYPE IV (R)								45
PM 15.98 (NORTHBOUND)	3-ARROW TYPE IV (L)								45
PM 16.11 (SOUTHBOUND)	3-ARROW TYPE VI (L)								126
PM 16.11 (NORTHBOUND)	LIMIT LINE								12
PM 16.11 (NORTHBOUND)	CROSSWALK								250
PM 16.11 (WESTBOUND)	CROSSWALK								340
PM 16.11 (SOUTHBOUND)	CROSSWALK								240
PM 16.11 (EASTBOUND)	CROSSWALK								300
PM 16.15 (SOUTHBOUND)	3-ARROW TYPE IV (R)								45
PM 16.15 (SOUTHBOUND)	2-ARROW TYPE V								66
PM 16.15 (NORTHBOUND)	2-ARROW TYPE VI (L)								84
PM 16.15 (SOUTHBOUND)	LIMIT LINE								12
PM 16.34 (SOUTHBOUND)	SIGNAL								32
PM 16.34 (SOUTHBOUND)	AHEAD								31
PM 16.38 (EASTBOUND)	LIMIT LINE								35
PM 16.55 (NORTHBOUND)	SLOW (YELLOW)								23
PM 16.55 (NORTHBOUND)	SCHOOL (YELLOW)								35
PM 16.55 (NORTHBOUND)	XING (YELLOW)								21
PM 16.60 (NORTHBOUND)	CROSSWALK (YELLOW HATCHED)								155
PM 16.60 (EASTBOUND)	CROSSWALK (YELLOW HATCHED)								155
PM 16.60 (EASTBOUND)	LIMIT LINE								25
PM 16.72 (SOUTHBOUND)	SLOW (YELLOW)								23
PM 16.72 (SOUTHBOUND)	SCHOOL (YELLOW)								35
PM 16.72 (SOUTHBOUND)	XING (YELLOW)								21
PM 16.78 (NORTHBOUND)	SIGNAL								32
PM 16.78 (NORTHBOUND)	AHEAD								31
PM 16.81 (EASTBOUND)	LIMIT LINE								12
PM 16.82 (SOUTHBOUND)	ARROW TYPE IV (R)								15
PM 16.88 (NORTHBOUND)	ARROW TYPE IV (L)								30
PM 16.88 (NORTHBOUND)	CROSSWALK								160
PM 16.88 (WESTBOUND)	CROSSWALK								160
SUBTOTAL			294	29	116	6,653		687	
SHEET TOTAL				439			7,340		2791

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: CHRIS HARDIMON

CHECKED BY: HORMUZD SETHNA

REVISED BY

DATE REVISED

PAVEMENT DELINEATION QUANTITIES
PDQ-3

LAST REVISION 10-04-11 | DATE PLOTTED => 13-OCT-2011 | TIME PLOTTED => 14:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	12	26

REGISTERED CIVIL ENGINEER 10-4-11 DATE

PLANS APPROVAL DATE 10-17-11

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6/30/12 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 DELINEATION QUANTITIES

LOCATION		DETAIL No. OR PAVEMENT MARKING	PAVEMENT MARKER				THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING
			NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE						
			A	D	G	H	4" YELLOW	4" WHITE	8" WHITE	
			EA	EA	EA	EA	FT	FT	FT	SQFT
PM 16.88	(SOUTHBOUND)	CROSSWALK								160
PM 16.88	(EASTBOUND)	CROSSWALK								160
PM 16.90	(NORTHBOUND)	WHITE CHEVRON								465
PM 16.90	(NORTHBOUND)	3-ARROW TYPE VI (L)								126
PM 16.96	(WESTBOUND)	LIMIT LINE								25
PM 16.96	(EASTBOUND)	LIMIT LINE								25
PM 16.98	(SOUTHBOUND)	SIGNAL								32
PM 16.98	(SOUTHBOUND)	AHEAD								31
PM 17.03	(NORTHBOUND)	2-ARROW TYPE IV (L)								30
PM 16.97	(SOUTHBOUND)	2-ARROW TYPE IV (L)								30
PM 17.04	(WESTBOUND)	LIMIT LINE								25
PM 17.04	(EASTBOUND)	LIMIT LINE								25
PM 17.05	(NORTHBOUND)	RAILROAD								70
PM 17.11	(WESTBOUND)	LIMIT LINE								25
PM 17.11	(EASTBOUND)	LIMIT LINE								25
PM 17.23	(SOUTHBOUND)	RAILROAD								70
PM 17.28	(WESTBOUND)	LIMIT LINE								30
PM 17.28	(EASTBOUND)	LIMIT LINE								40
PM 17.28	(NORTHBOUND)	ARROW TYPE IV (L)								15
PM 17.29	(SOUTHBOUND)	ARROW TYPE IV (L)								15
PM 17.94	(WESTBOUND)	LIMIT LINE								20
PM 19.05	(NORTHBOUND)	SIGNAL								32
PM 19.05	(NORTHBOUND)	AHEAD								31
PM 19.06	(EASTBOUND)	LIMIT LINE								20
PM 19.07	(NORTHBOUND)	3-ARROW TYPE IV (R)								45
PM 19.20	(NORTHBOUND)	LIMIT- LINE								55
SUBTOTAL										
SHEET TOTAL										1,627
GRAND TOTAL			420	2,762			110,141			4,922

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: CHRIS HARDIMON

CHECKED BY: HORMUZD SETHNA

REVISED BY

DATE REVISED

PAVEMENT DELINEATION QUANTITIES
PDQ-4

LAST REVISION 10-04-11 DATE PLOTTED => 13-OCT-2011 TIME PLOTTED => 14:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	13	26

REGISTERED CIVIL ENGINEER 10-4-11 DATE

10-17-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KEVIN H. CHEN No. C70017 Exp. 9/30/12 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. EXACT LOCATION, LENGTH AND WIDTH OF REPLACE ASPHALT CONCRETE SURFACING TO BE DETERMINED BY THE ENGINEER.
2. WIDTH OF TRAVEL WAY AND SHOULDER ARE NOMINAL. MATCH EXISTING WIDTHS IN THE FIELD.

PAVEMENT QUANTITIES

BEGIN	END	LENGTH	WIDTH	RHMA (GAP GRADED)	TACK COAT	COLD PLANE
PM	PM	LF	LF	TONS	TONS	SQYD
0	0.2	1,056	28	229.2	1.4	3,285
0.2	0.4	1,056	40	327.4	2.0	4,693
0.4	2.1	8,976	28	1,947.8	11.6	27,925
2.1	2.3	1,056	40	327.4	2.0	4,693
2.3	2.5	1,056	28	229.2	1.4	3,285
2.5	2.7	1,056	40	327.4	2.0	4,693
2.7	3.0	1,584	52	638.4	3.8	9,152
R15.8	R16.0	1,056	88	720.2	4.3	10,325
R16.0	R16.6	3,168	28	687.5	4.1	9,856
R16.6	R16.9	1,584	76	933.0	5.6	13,376
R16.9	R17.0	528	28	114.6	0.7	1,643
R17.0	R17.1	528	40	163.7	1.0	2,347
R17.1	R18.0	4,752	28	1031.0	6.1	14,784
R18.0	R19.2	6,336	28	1,137.5	8.2	19,712
			TOTAL	9,051.8	54.2	129,769

CENTER LINE RUMBLE STRIP

BEGIN	END	RUMBLE STRIP	FOG SEAL COAT (N)
PM	PM	STA	TON
R16.92	R17.95	55	1
0.0	3.0	158	2
	TOTAL	214	

(N) FOR INFORMATION ONLY, NOT A PAY ITEM

REPLACE ASPHALT CONCRETE SURFACING

DIRECTION	LOCATION	LENGTH	WIDTH	DEPTH	VOLUME
	PM	LF	LF	LF	CY
NORTHBOUND	2.2-2.5	1,500	12	0.25	166.7
NORTHBOUND	15.0-15.3	1,500	12	0.50	333.3
NORTHBOUND	16.8-17.2	1,500	12	0.50	333.3
SOUTHBOUND	2.2-2.5	1,500	12	0.25	166.7
SOUTHBOUND	15.3-15.6	1,500	12	0.50	333.3
SOUTHBOUND	17.1-17.5	1,500	12	0.50	333.3
				TOTAL	1666.6

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED

KEVIN H CHEN | IYAD NAMY

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: KEVIN CHEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

LAST REVISION 10-04-11 | DATE PLOTTED => 13-OCT-2011 | TIME PLOTTED => 14:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	14	26

REGISTERED ELECTRICAL ENGINEER 10-4-11 DATE

PLANS APPROVAL DATE 10-17-11

REGISTERED PROFESSIONAL ENGINEER MICHAEL APANTE No. E17164 Exp. 9/30/13 ELECTRICAL STATE OF CALIFORNIA

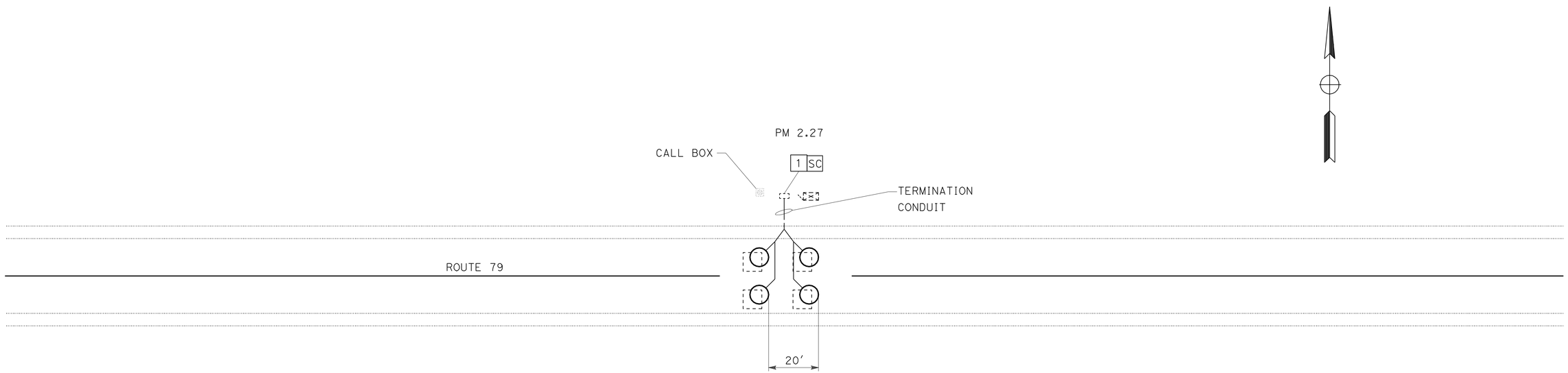
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

GENERAL NOTES: (SHEETS E-1 TO E-4)

1. ALL DISTANCES ARE APPROXIMATE, PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL LOOP LOCATIONS.
2. EXISTING LOOPS, SHOWN TO BE REPLACED, SHALL BE AB.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 5 WORKING DAYS PRIOR TO INSTALLING INDUCTIVE LOOP DETECTORS.
4. RC EXISTING LOOP WIRES FROM TERMINATION CONDUIT AND INSTALL NEW LOOP WIRES, SHOWN ON PLAN, THROUGH TERMINATION CONDUIT.

PROJECT NOTE: (SHEET E-1 AND E-3 ONLY)

1 THE CONTRACTOR SHALL CUT THE CALL BOX CABLE HARNESS FROM THE SPLICE POINT OF THE DLC AND THE LOOP WIRES, AND SHALL SPLICE AND COIL THE CABLE HARNESS SLACK IN THE PULL BOX.



INDUCTIVE LOOP DETECTOR
COUNT STATION No. 941
NO SCALE

E-1

APPROVED FOR ELECTRICAL WORK ONLY

REVISED BY | DATE REVISED

BRUCE W. LUTTON | MICHAEL APANTE

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: DAVID A GONZALEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® ELECTRICAL DESIGN A

LAST REVISION 10-04-11 | DATE PLOTTED => 13-OCT-2011 | TIME PLOTTED => 14:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	15	26

REGISTERED ELECTRICAL ENGINEER 10-4-11 DATE

PLANS APPROVAL DATE 10-17-11

REGISTERED PROFESSIONAL ENGINEER MICHAEL APANTE No. E17164 Exp. 9/30/13 ELECTRICAL STATE OF CALIFORNIA

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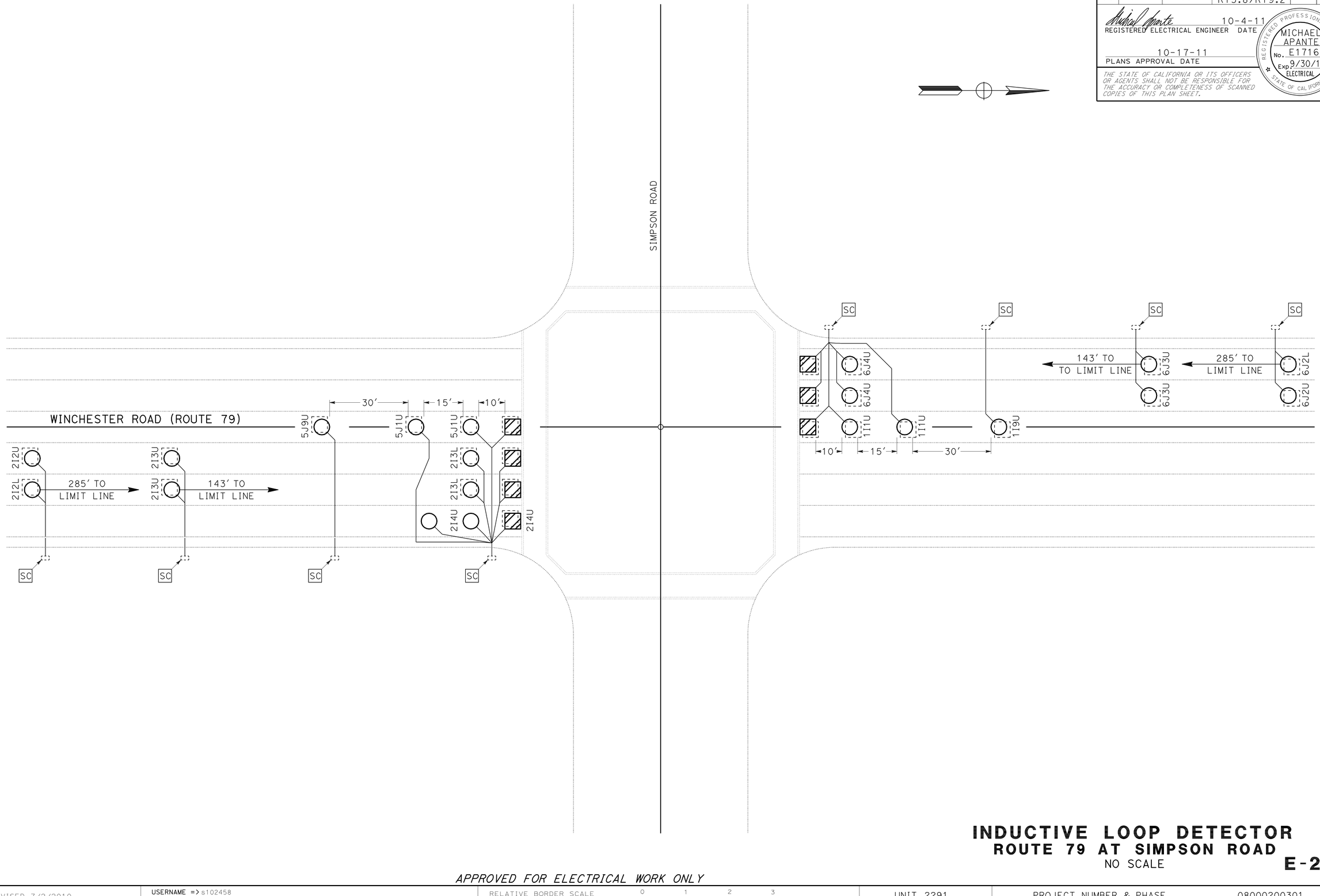

INDUCTIVE LOOP DETECTOR
ROUTE 79 AT SIMPSON ROAD
NO SCALE

E-2

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN A

FUNCTIONAL SUPERVISOR: DAVID A GONZALEZ

CALCULATED-DESIGNED BY: BRUCE W. LUTTON
CHECKED BY: MICHAEL APANTE

REVISED BY
DATE REVISED

LAST REVISION 10-04-11
DATE PLOTTED => 13-OCT-2011
TIME PLOTTED => 14:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	16	26

REGISTERED ELECTRICAL ENGINEER 10-4-11 DATE

PLANS APPROVAL DATE 10-17-11

REGISTERED PROFESSIONAL ENGINEER MICHAEL APANTE No. E17164 Exp. 9/30/13 ELECTRICAL STATE OF CALIFORNIA

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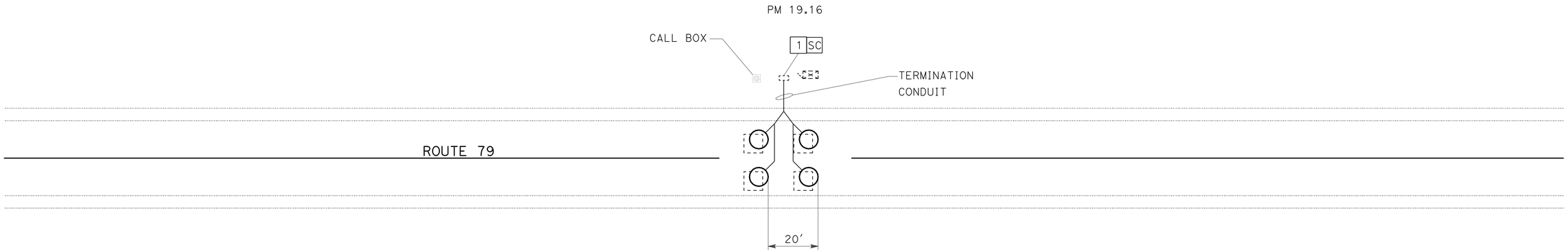

INDUCTIVE LOOP DETECTOR
COUNT STATION No. 952
NO SCALE

E-3

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN A

FUNCTIONAL SUPERVISOR: DAVID A GONZALEZ

CALCULATED-DESIGNED BY: BRUCE W. LUTTON
CHECKED BY: MICHAEL APANTE

REVISED BY
DATE REVISED

LAST REVISION 10-04-11
DATE PLOTTED => 13-OCT-2011
TIME PLOTTED => 14:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0, R15.8/R19.2	17	26

REGISTERED ELECTRICAL ENGINEER 10-4-11 DATE

PLANS APPROVAL DATE 10-17-11

REGISTERED PROFESSIONAL ENGINEER MICHAEL APANTE No. E17164 Exp. 9/30/13 ELECTRICAL STATE OF CALIFORNIA

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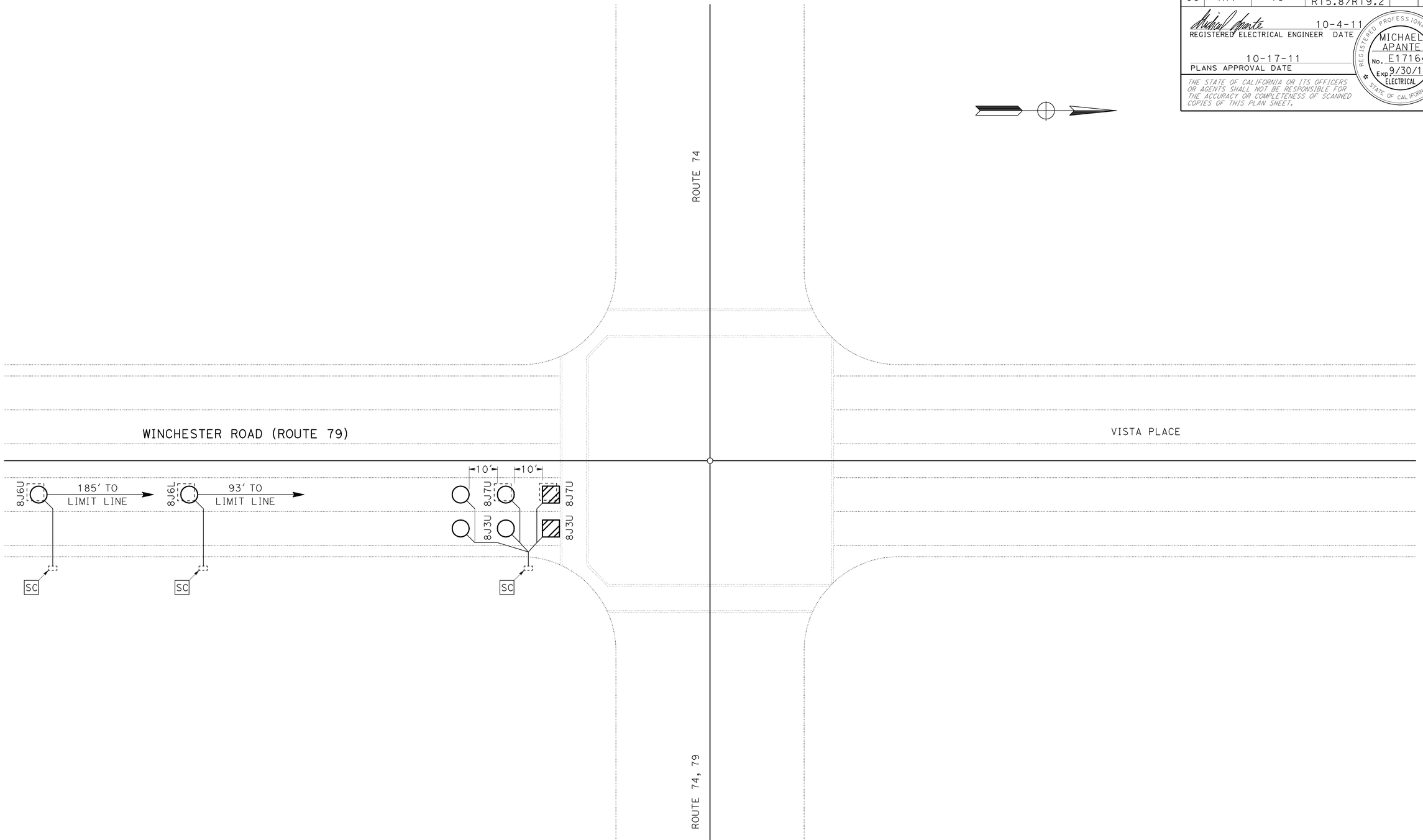

INDUCTIVE LOOP DETECTOR
ROUTE 79 AT ROUTE 74
NO SCALE

E-4

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN A

FUNCTIONAL SUPERVISOR: DAVID A GONZALEZ

CALCULATED-DESIGNED BY: BRUCE W. LUTTON
CHECKED BY: MICHAEL APANTE

REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 13-OCT-2011
TIME PLOTTED => 14:32

BORDER LAST REVISED 7/2/2010
USERNAME => s102458
DGN FILE => 80p780ua004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2291
PROJECT NUMBER & PHASE 08000200301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	79	0.0/3.0 R15.8/R19.2	18	26

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

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

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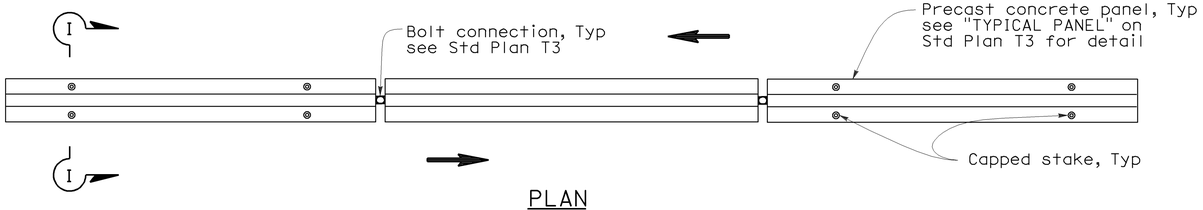
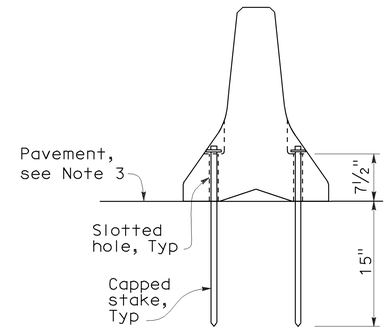
To accompany plans dated 10-17-11



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

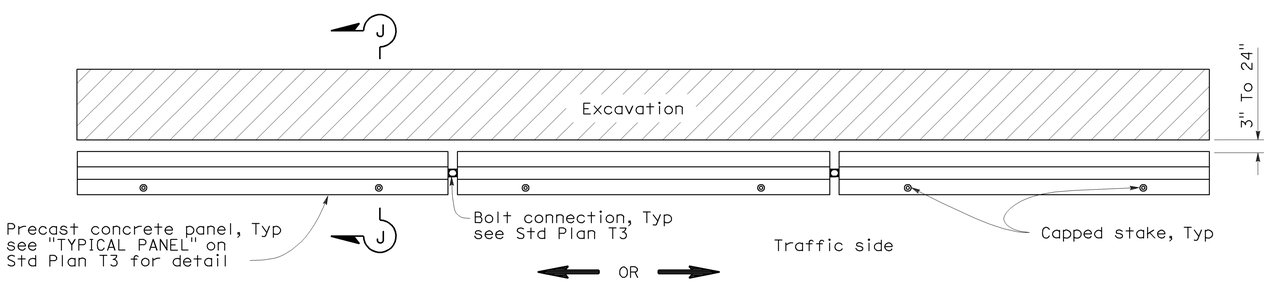
See Note 1



SECTION I-I

NOTES:

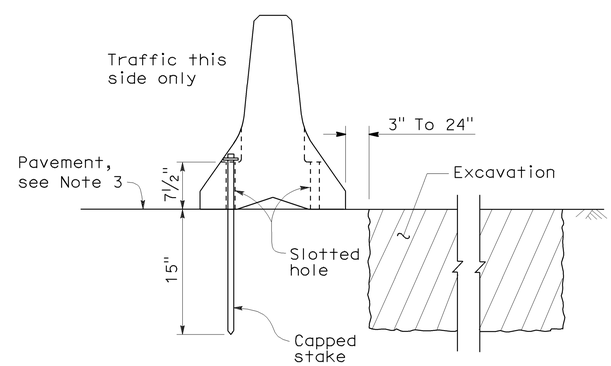
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of 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 ⟹.



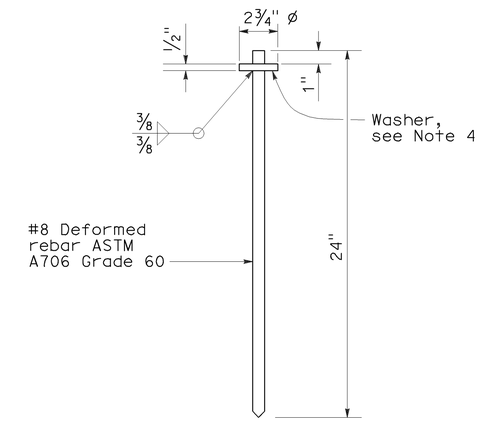
PLAN

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.

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	79	0.0/3.0 R15.8/R19.2	19	26

REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald E. Howe No. C46402 Exp. 3-31-09 CIVIL STATE OF CALIFORNIA

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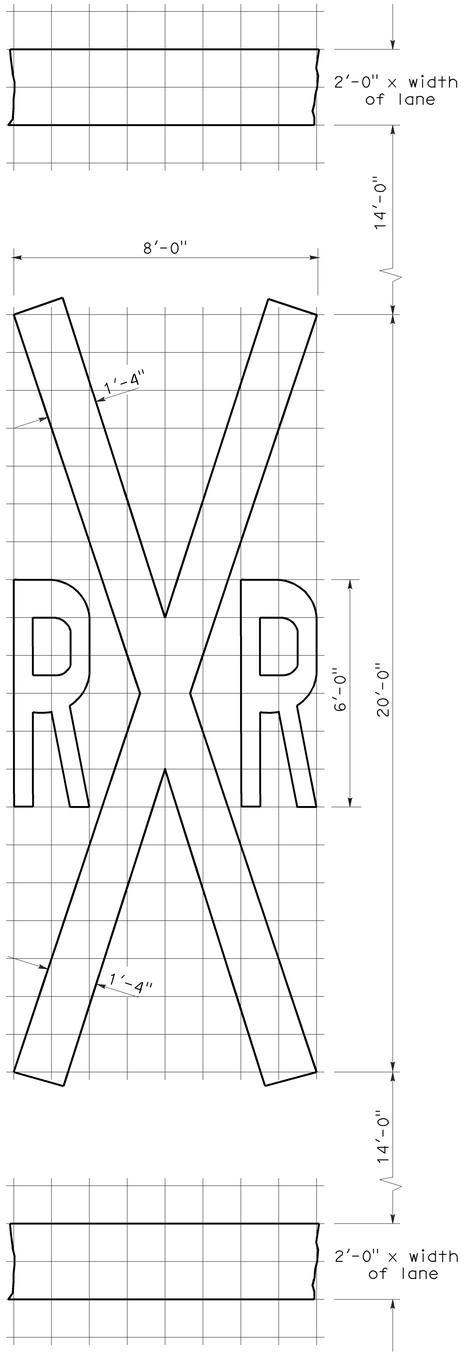
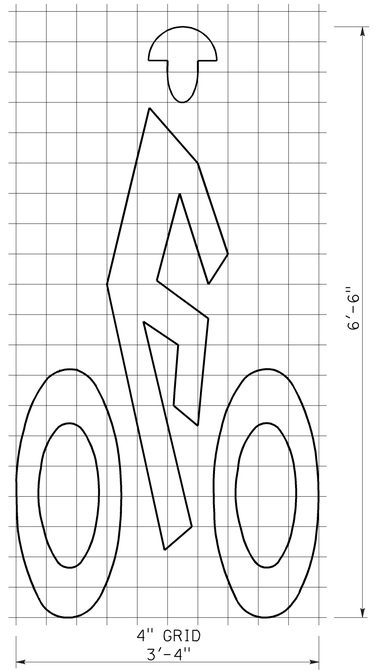
To accompany plans dated 10-17-11



1'-0" GRID
A=70 sq ft ✳

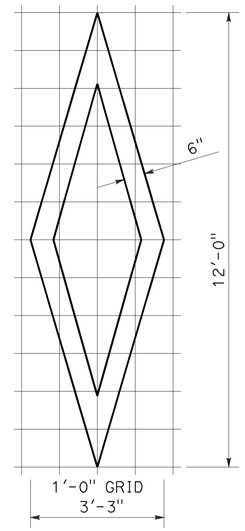
RAILROAD CROSSING SYMBOL

✳70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



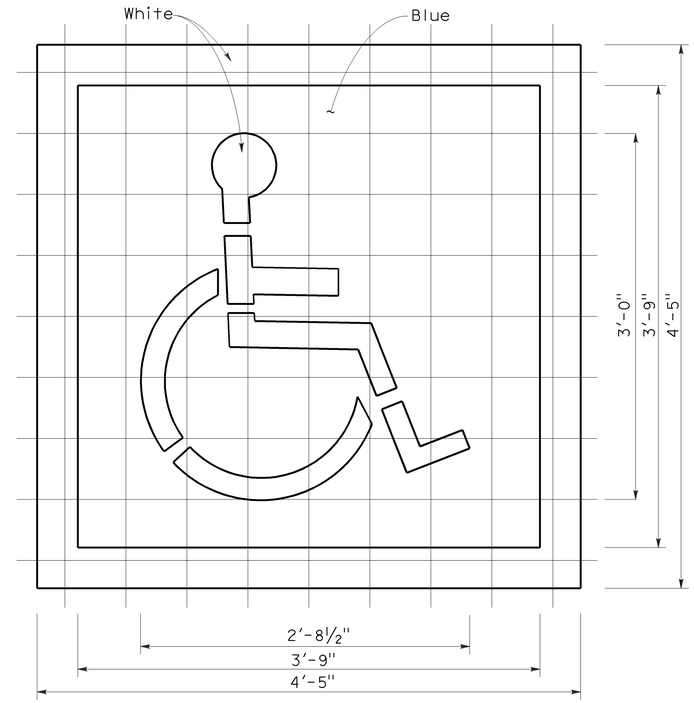
A=7 sq ft

BIKE LANE SYMBOL



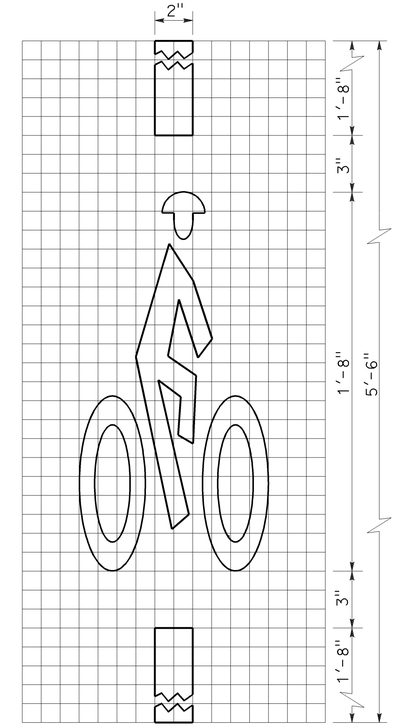
A=11 sq ft

DIAMOND SYMBOL



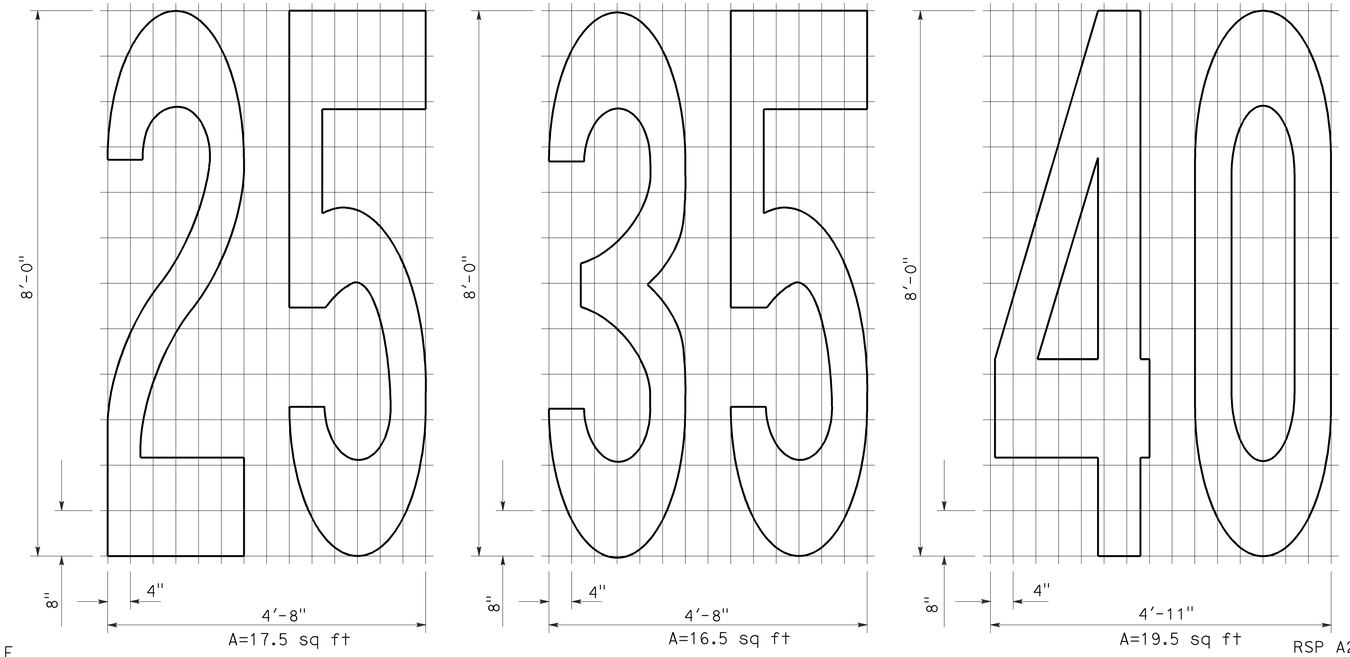
6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft

INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



A=2 sq ft

BICYCLE LOOP DETECTOR SYMBOL



A=17.5 sq ft A=16.5 sq ft A=19.5 sq ft

NUMERALS

NOTE:

1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

5-27-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	79	0.0/3.0 R15.8/R19.2	20	26

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER 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 10-17-11

2006 REVISED STANDARD PLAN RSP ES-1A

ELECTROLIERS

STANDARD TYPES
15, 15D
15 STRUCTURE
21, 21D STRUCTURE
30
31
32
35
36-20A

High mast light pole

Double Arm lighting standard

Existing electrolier

Electrolier foundation (Future installation)

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.

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	
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

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	79	0.0/3.0 R15.8/R19.2	21	26

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 10-17-11

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 RSP ES-9A C
R	r	Conduit riser in/on structure or service pole

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION

Type of installation

TYPE H SERVICE - 28'-10" ← Pole height above grade

ILLUMINATED OVERHEAD SIGN

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

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
PV	PV	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
R	Y	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

SIGNAL EQUIPMENT Cont

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

NOTES:

1. All signal sections shall be 12" unless shown otherwise.
2. Signal heads shall be provided with backplates unless shown otherwise.
3. 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

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	79	0.0/3.0 R15.8/R19.2	22	26

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 10-17-11

EQUIPMENT IDENTIFICATION

ILLUMINATED SIGN IDENTIFICATION NUMBER:

Sign No. 12345 — Sign number - Place on post or structure

10 ISL SCI 1.0

- 1.0 — Transformer rating (kVA)
- SCI — Lighting control type
- ISL — Number and type of fixtures

Do NOT place on standard or structure

ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:

12345 - 15'-0"

- 15'-0" — Mast arm length, if shown. Do not place on standard or structure.
- 12345 — Equipment number - Place on standard or structure. Existing equipment numbers are shown in parenthesis

CONDUIT AND CONDUCTOR IDENTIFICATION:

1½"C, 2#10, 15#14, 2 DLC

- 2#10, 15#14, 2 DLC — Number and size of conductors and cables
- 1½"C — Size of conduit in inches

Ø1, Ø2, Ø2P, etc.	Traffic phase identification for signal faces, detectors and phase diagrams
1 2 3	Project note numbers
A B C	Equipment description, installation or item numbers
1 2 3	Conduit run numbers

SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):

19A - 3 - 100

- 100 — Wind velocity = 100 mph
- 3 — Case 3 arm loading
- 19A — Standard type
- Standard Plan sheet number
- Detail number or letter

MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
CMS	cms	Changeable message sign
		Closed circuit television camera
		Highway advisory radio pole and antenna
EMS	ems	Extinguishable message sign
M V	m v	Detection device M = Microwave sensor V = Video image sensor

WIRING DIAGRAM LEGEND

P	Pole
CB	Circuit breaker
A	Ampere
V	Volt
M	Metered
UM	Unmetered
NB	Neutral bus
GB	Ground bus
G	Equipment grounding conductor
N	Grounded conductor (Neutral)

- External conductor
- Conductor or bus
- Tie point
- Contactor coil
- Contactor, Contact NO
- Terminal blocks
- Contactor, Contact NC
- Enclosure bond
- Grounding electrode
- Circuit breaker
- Receptacle

PULL BOXES

PROPOSED	EXISTING	
		Pull box-No. 5 unless otherwise indicated or noted.
3	9A(21)	Pull box-Additional designations or descriptions

3 = No. 3½ pull box
5 = No. 5 pull box
6 = No. 6 pull box
7 = No. 7 (Ceiling pull box)
8 = No. 8 (Pendant soffit pull box)
9 = No. 9 pull box
9A = No. 9A pull box

(C) = Communications pull box
(E) = Pull box with extension
(S) = Sprinkler control pull box
(21) = Anchor bolts and conduit for future installation of Type 21 Standard
(T) = Traffic pull box

VEHICLE DETECTORS

5 J 9 U

- U = Upper
- L = Lower
- Slot number in input file
- Input file (I or J)
- Phase

PROPOSED	EXISTING	
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
DH	dh	Detector handhole
		Microwave or video detection zone

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	79	0.0/3.0 R15.8/R19.2	23	26

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

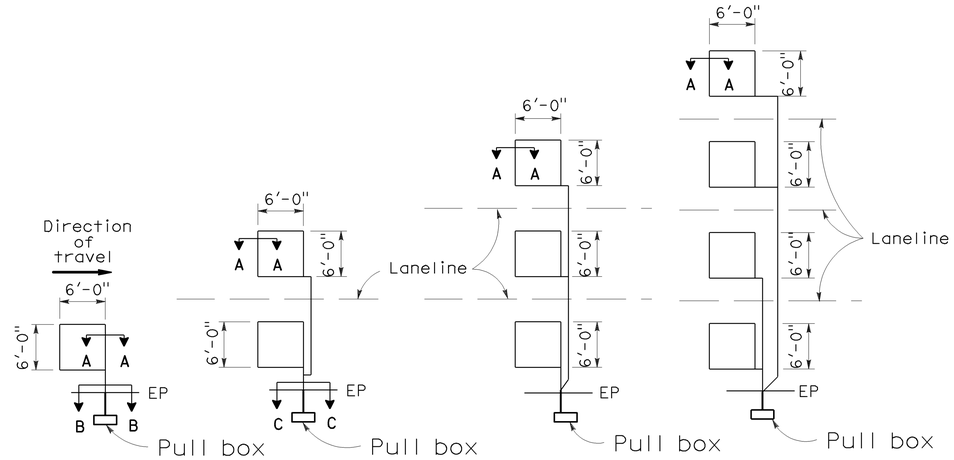
REGISTERED PROFESSIONAL ENGINEER Jeffery G. McRae No. E14512 Exp. 6-30-08 ELECTRICAL STATE OF CALIFORNIA

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 10-17-11

LOOP INSTALLATION PROCEDURE

1. Loops shall be centered in lanes.
2. Saw slots in pavement for loop conductors as shown in details.
3. 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.
4. Bottom of saw slot shall be smooth with no sharp edges.
5. Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
6. Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
7. 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.
8. 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.
9. No more than 2 twisted pairs shall be installed in one sawed slot.
10. Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
11. 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.
12. Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
13. Fill slots as shown in details.
14. Splice loop conductors to lead-in-cable. Splices shall be soldered.
15. 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.
16. Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
17. Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
18. 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.

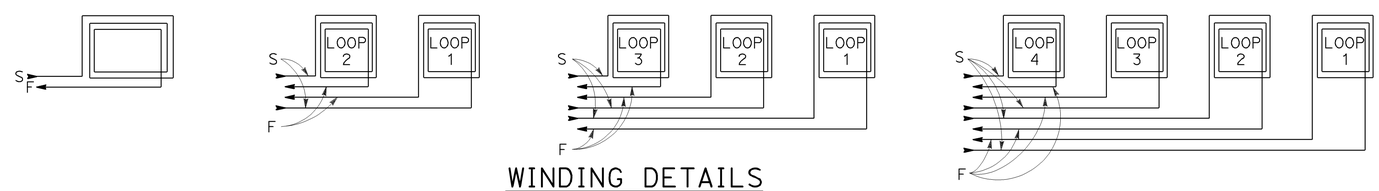


TYPE 1A INSTALLATION | TYPE 2A INSTALLATION | TYPE 3A INSTALLATION | TYPE 4A INSTALLATION

SAWCUT DETAILS

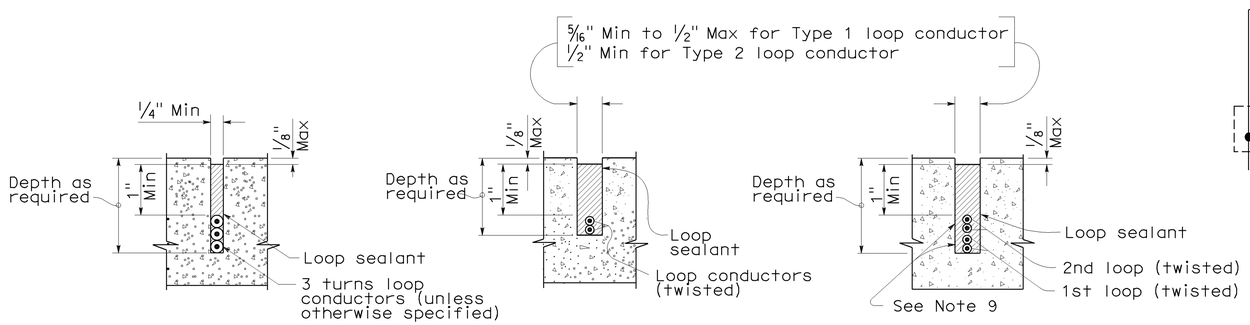
(Type A loop detector configurations illustrated)

1. 1A thru 4A = 1 Type A loop configuration in each lane.
2. 1B thru 4B = 1 Type B loop configuration in each lane.
3. 1C = 1 Type C loop configuration entering lanes as required.
4. 1D thru 4D = 1 Type D loop configuration in each lane.
5. 1E thru 4E = 1 Type E loop configuration in each lane.
6. 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)



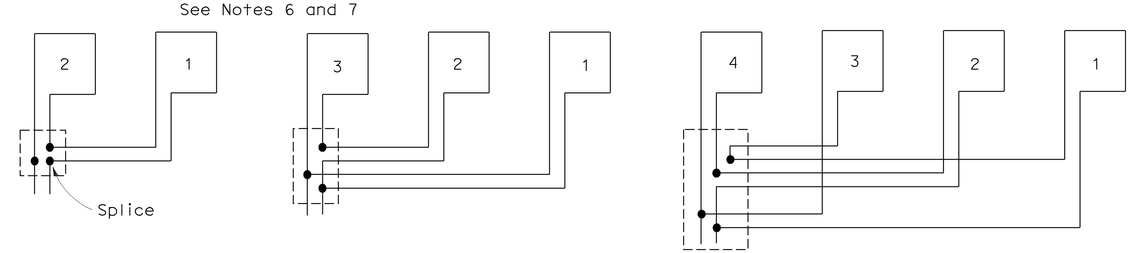
WINDING DETAILS

See Notes 6 and 7



SECTION A-A | SECTION B-B | SECTION C-C

SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (DETECTORS)

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.

REVISED STANDARD PLAN RSP ES-5A

2006 REVISED STANDARD PLAN RSP ES-5A

8-17-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	79	0.0/3.0 R15.8/R19.2	24	26

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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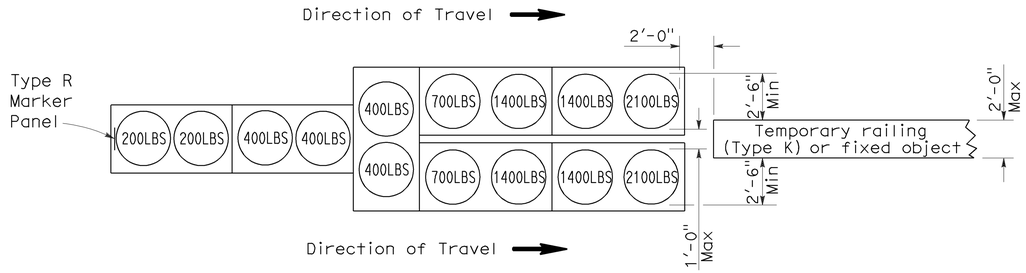
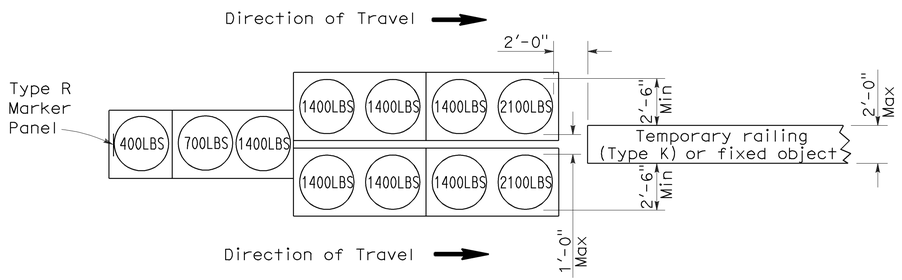
To accompany plans dated 10-17-11



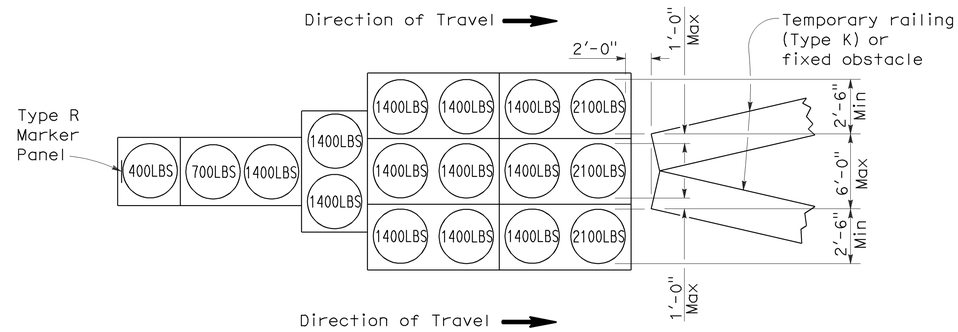
ARRAY 'TU14'

Approach speed 45 mph or more



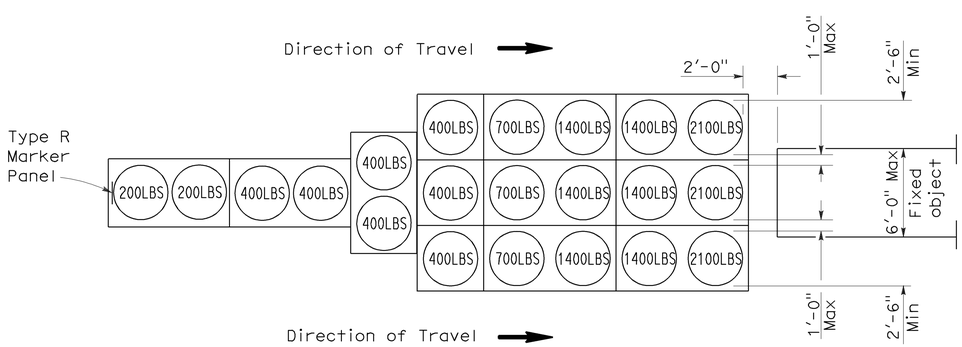
ARRAY 'TU11'

Approach speed less than 45 mph



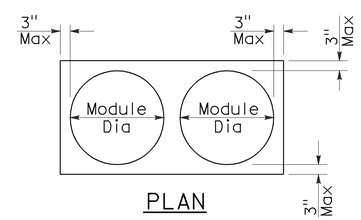
ARRAY 'TU17'

Approach speed less than 45 mph

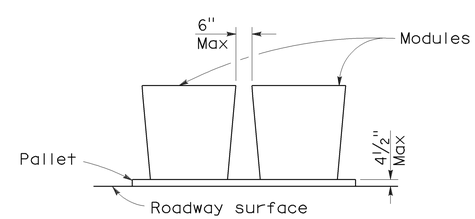


ARRAY 'TU21'

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 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.

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
08	Riv	79	0.0/3.0 R15.8/R19.2	25	26

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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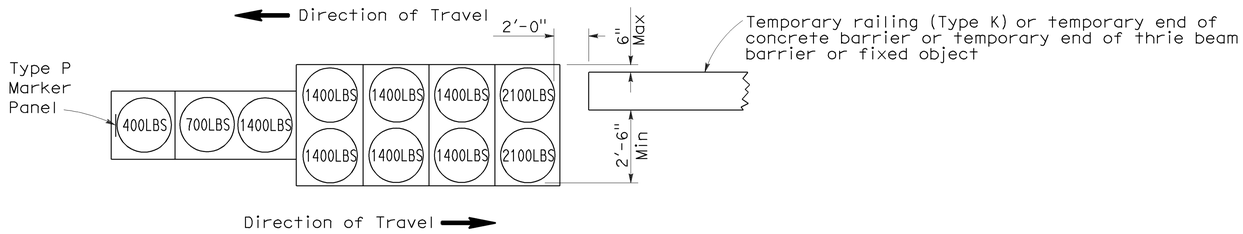
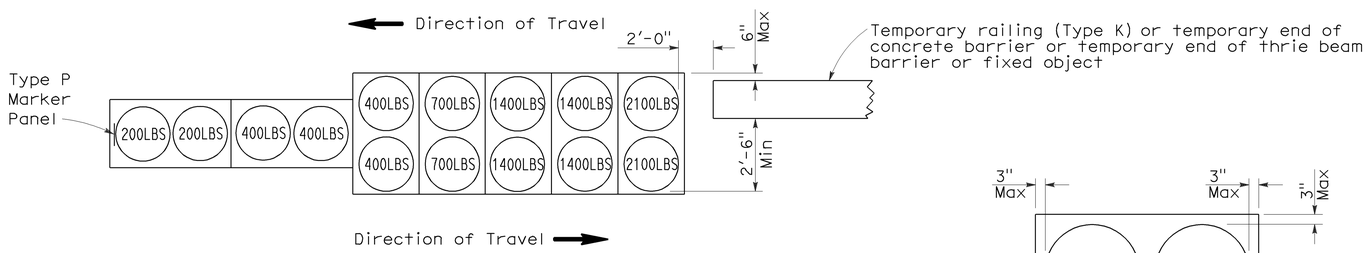
To accompany plans dated 10-17-11

2006 REVISED STANDARD PLAN RSP T1B



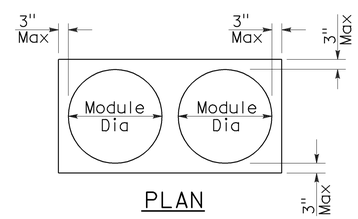
ARRAY 'TB11'

Approach speed less than 45 mph

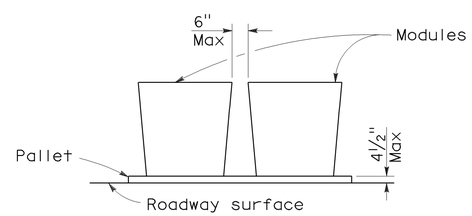


ARRAY 'TB14'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	79	0.0/3.0 R15.8/R19.2	26	26

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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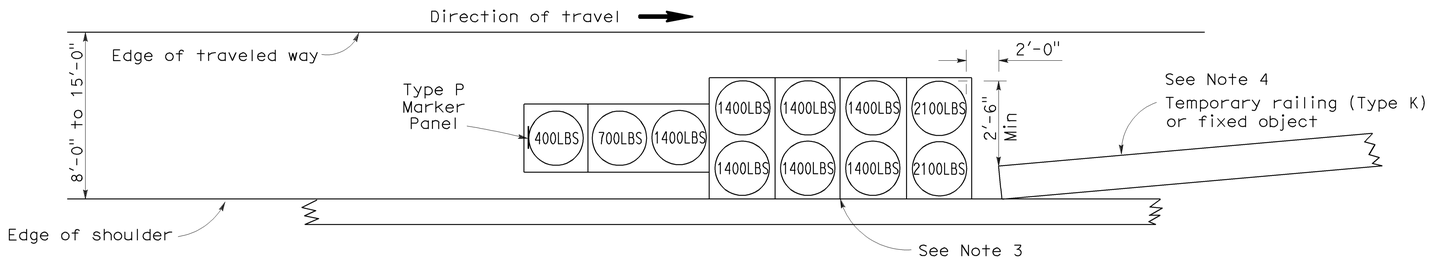
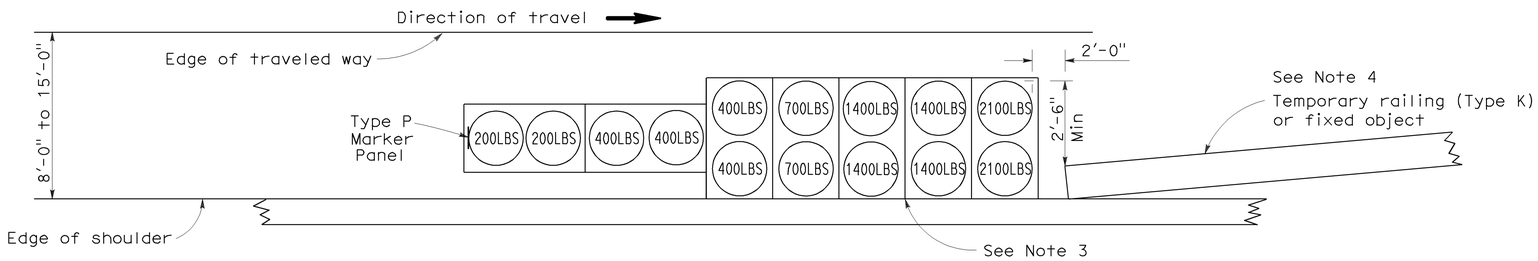
To accompany plans dated 10-17-11



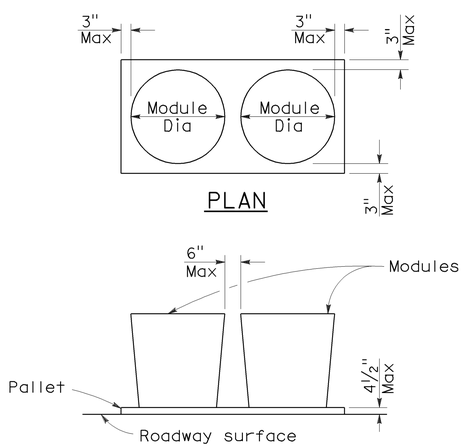
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



CRASH CUSHION PALLET DETAIL

See Note 11

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. 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.
4. 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.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. 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.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. Use of pallets is optional.

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

5-15-08