

INDEX OF PLANS

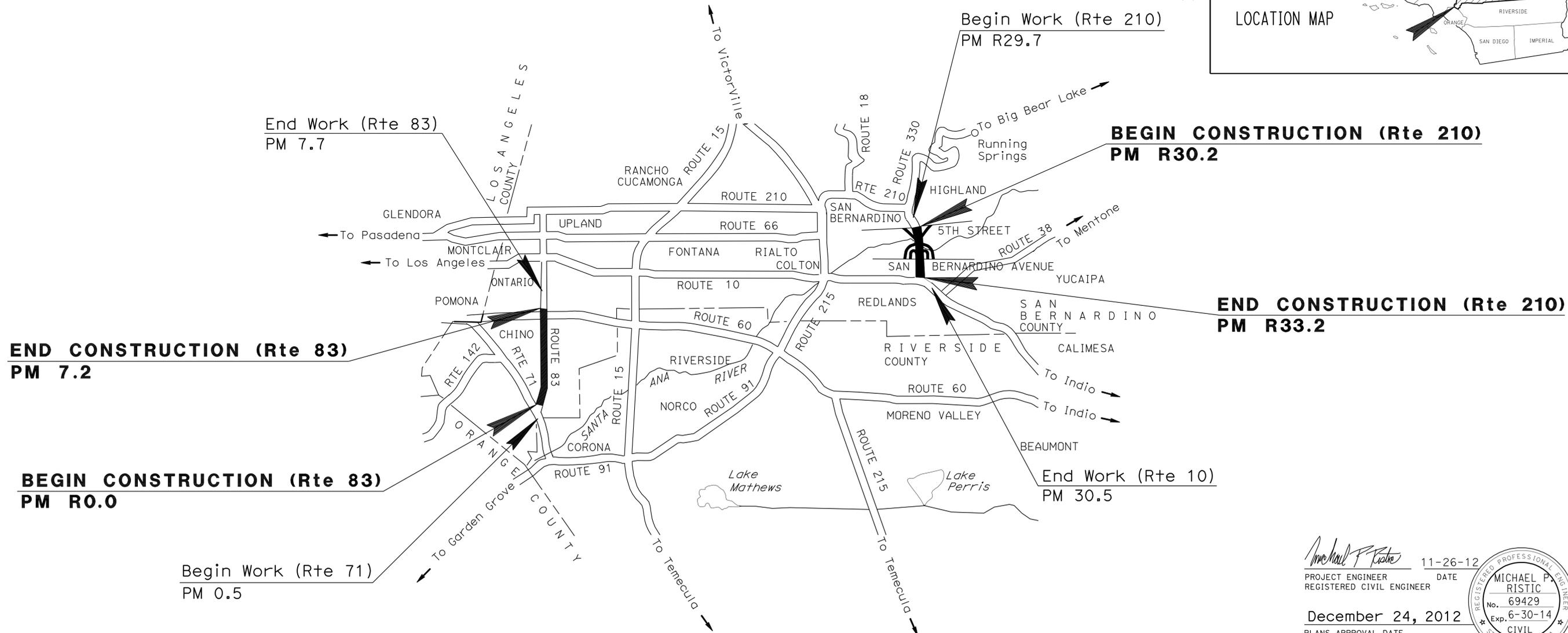
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-4	TYPICAL CROSS SECTIONS
5-7	CONSTRUCTION DETAILS
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**  
**ACNH-X071(064)E**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN SAN BERNARDINO COUNTY**  
**IN CHINO, ONTARIO, HIGHLAND AND REDLANDS**  
**ON ROUTE 83 FROM ROUTE 71/83 SEPARATION**  
**TO ROUTE 60/83 SEPARATION AND**  
**ON ROUTE 210 FROM FIFTH STREET OVERCROSSING**  
**TO ROUTE 10/210 SEPARATION**  
 TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

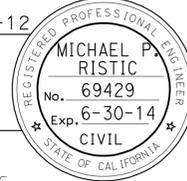
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	1	34

LOCATION MAP



PROJECT MANAGER  
 CATALINO PINING  
 DESIGN ENGINEER  
 RHEA VILLARAMA

PROJECT ENGINEER DATE 11-26-12  
 REGISTERED CIVIL ENGINEER  
**December 24, 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.	<b>08-0P3804</b>
PROJECT ID	<b>0800001024</b>

DATE PLOTTED => 11-26-12  
 TIME PLOTTED => 10:44  
 LAST REVISION 11-26-12





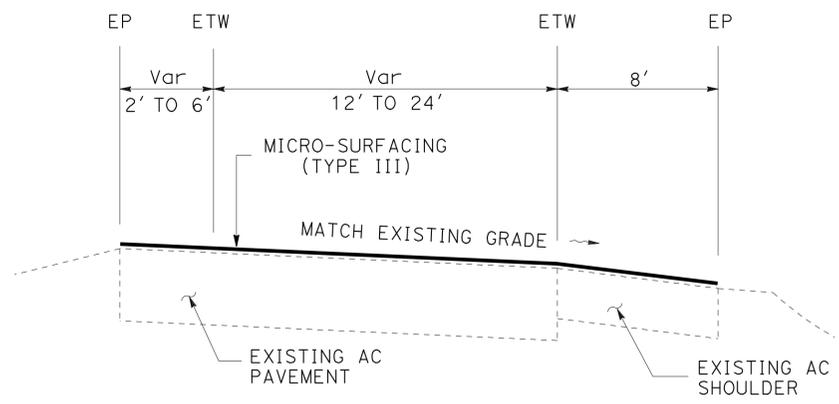
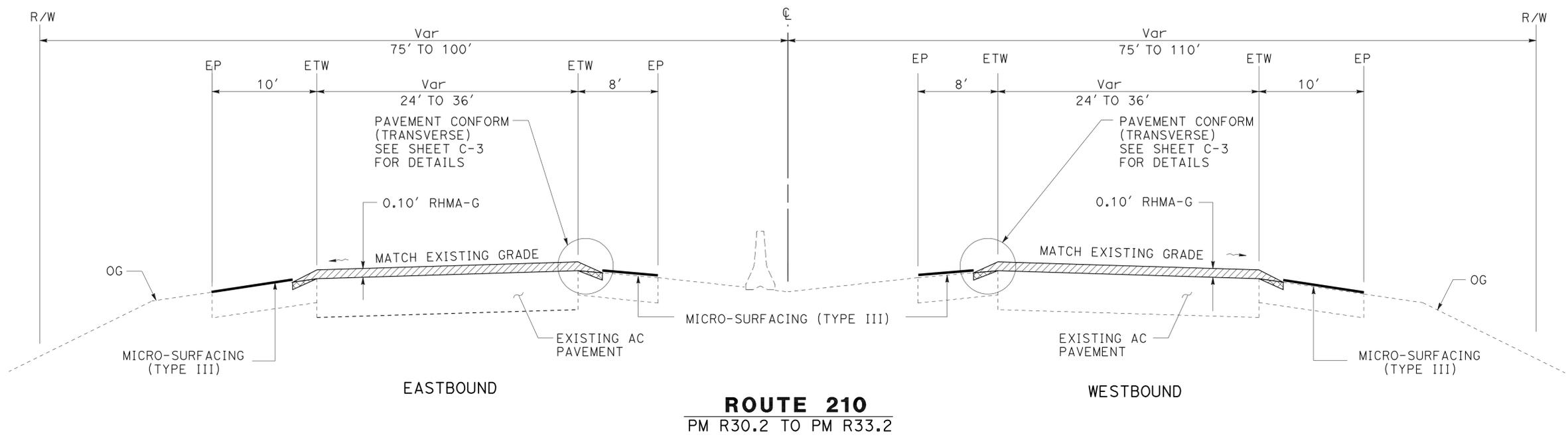
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	4	34

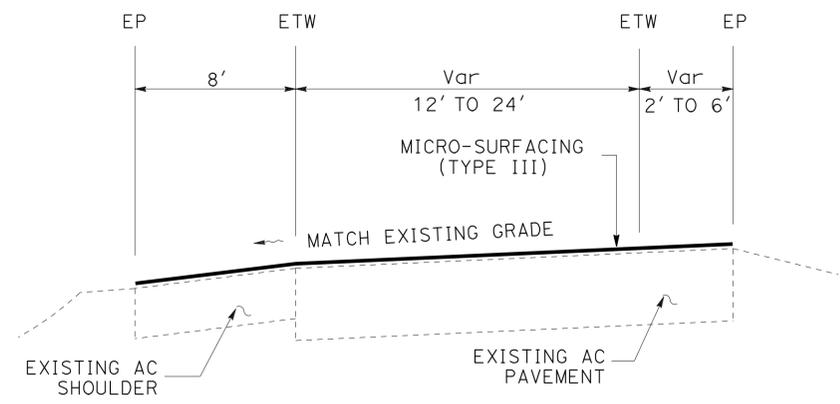
<i>Michael P. Ristic</i>	11-26-12
REGISTERED CIVIL ENGINEER	DATE
12-24-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
**MICHAEL P. RISTIC**  
 No. 69429  
 Exp. 6-30-14  
 CIVIL  
 STATE OF CALIFORNIA

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



- ① 5TH STREET ENTRANCE RAMP TO ROUTE 210 EB
- ② SAN BERNARDINO AVENUE EXIT RAMP FROM ROUTE 210 EB
- ③ SAN BERNARDINO AVENUE ENTRANCE RAMP TO ROUTE 210 EB



- ④ 5TH STREET EXIT RAMP FROM ROUTE 210 WB
- ⑤ SAN BERNARDINO AVENUE EXIT RAMP FROM ROUTE 210 WB
- ⑥ SAN BERNARDINO AVENUE ENTRANCE RAMP TO ROUTE 210 WB

**TYPICAL CROSS SECTIONS**  
NO SCALE  
**X-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR: MICHAEL RISTIC  
 CALCULATED/DESIGNED BY: RHEA VILLARAMA  
 CHECKED BY: MICHAEL RISTIC  
 REVISED BY: RHEA VILLARAMA  
 DATE REVISED: MICHAEL RISTIC

LAST REVISION: 11-26-12  
 DATE PLOTTED => 11-26-12  
 TIME PLOTTED => 10:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	5	34

<i>Michael P. Ristic</i>	11-26-12
REGISTERED CIVIL ENGINEER	DATE
12-24-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
MICHAEL P. RISTIC
No. 69429
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

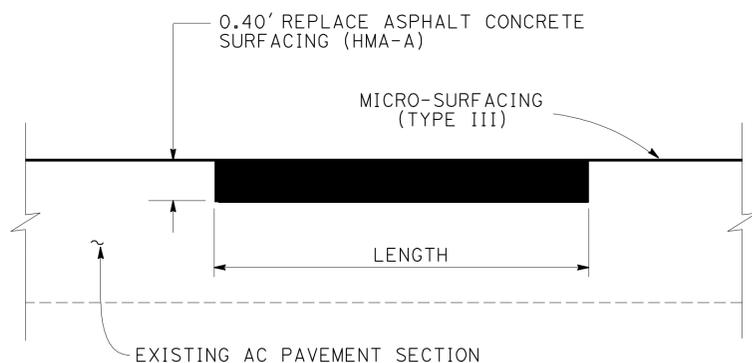
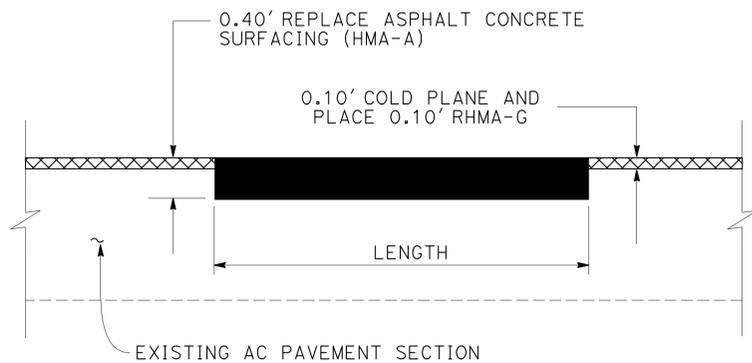
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**NOTES:**

1. PAVING LIMITS SHALL BE AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. NO SURFACING SHALL BE ALLOWED ON BRIDGES.
3. PROTECT IN PLACE EXISTING UTILITY COVERS.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
5. ALL WORK WITHIN STATE RIGHT OF WAY.

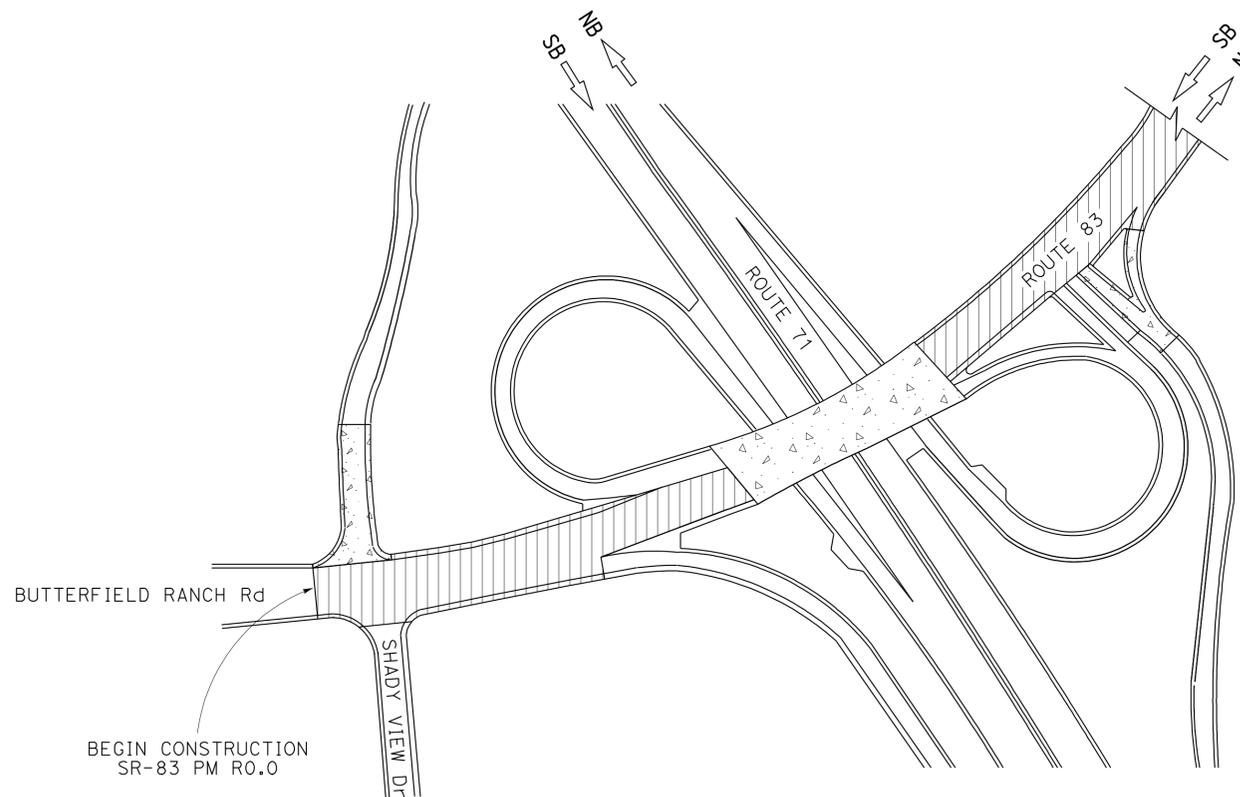
**LEGEND:**

-  LIMITS OF ROUTE WORK
-  EXISTING CONCRETE/BRIDGE STRUCTURE
-  LIMITS OF RAMP WORK
-  0.10' COLD PLANE AND PLACE 0.10' RHMA-G
-  0.10' RHMA-G
-  REPLACE ASPHALT CONCRETE SURFACING
-  MICRO-SURFACING (TYPE III)



**REPLACE AC SURFACING**

FOR REPLACE AC SURFACING LOCATIONS AND DIMENSIONS SEE SHEET Q-1



**ROUTE 83 BEGIN CONSTRUCTION**

LIMIT OF WORK

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
<b>Caltrans</b> MAINTENANCE ENGINEERING	RHEA VILLARAMA	
FUNCTIONAL SUPERVISOR	MICHAEL RISTIC	
CALCULATED/DESIGNED BY	CHECKED BY	
	MICHAEL RISTIC	
	REVISOR	DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	6	34

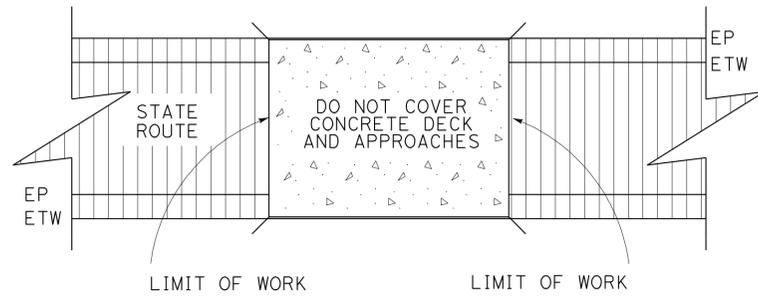
  

<i>Michael P. Ristic</i>	11-26-12
REGISTERED CIVIL ENGINEER	DATE
12-24-12	
PLANS APPROVAL DATE	

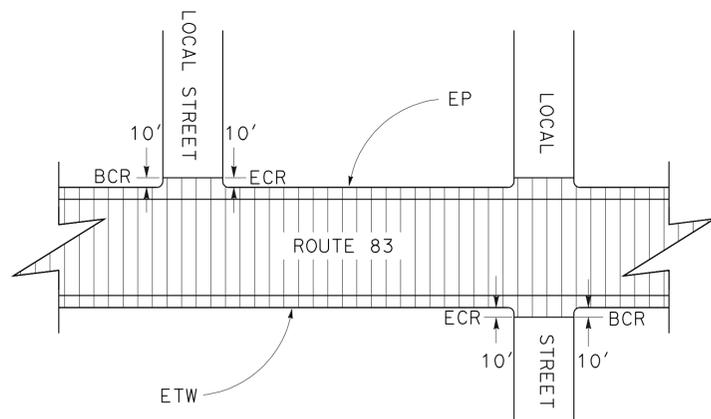
  

REGISTERED PROFESSIONAL ENGINEER
MICHAEL P. RISTIC
No. 69429
Exp. 06-30-14
CIVIL
STATE OF CALIFORNIA

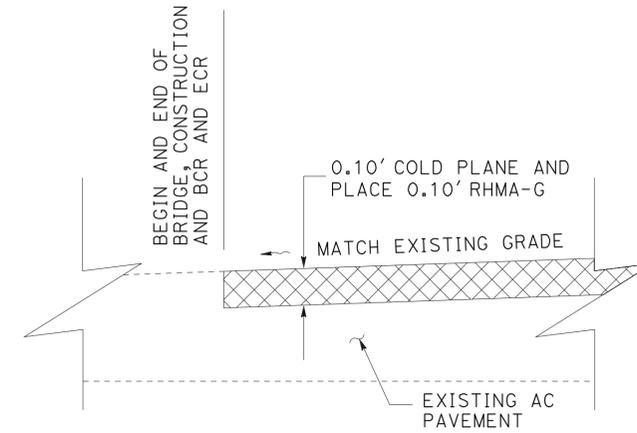
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**BRIDGE DECK**  
TYPICAL

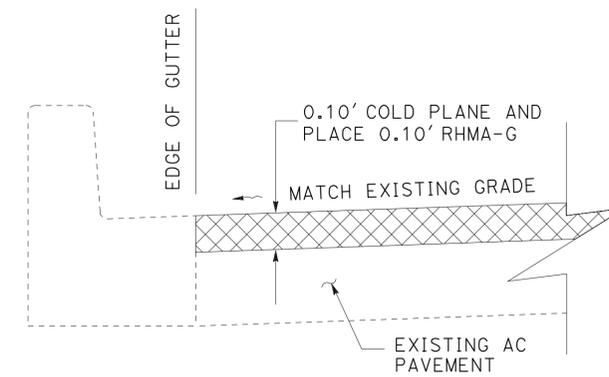


**LOCAL STREET**  
LIMIT OF WORK



**ROUTE 83 PAVEMENT CONFORM**

BEGIN AND END OF CONSTRUCTION,  
BEGIN AND END OF BCR AND ECR,  
AND BEGIN AND END OF BRIDGES



**ROUTE 83 PAVEMENT CONFORM**

EDGE OF GUTTER

**CONSTRUCTION DETAILS**  
NO SCALE  
**C-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	MAINTENANCE ENGINEERING
<b>Caltrans</b>	
FUNCTIONAL SUPERVISOR	MICHAEL RISTIC
CALCULATED/DESIGNED BY	CHECKED BY
RHEA VILLARAMA	MICHAEL RISTIC
REVISED BY	DATE
	REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	7	34

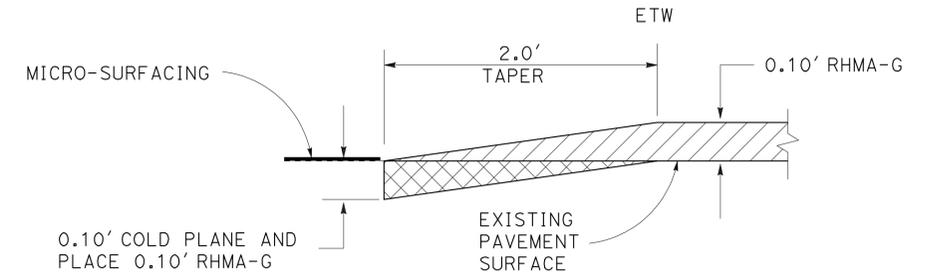
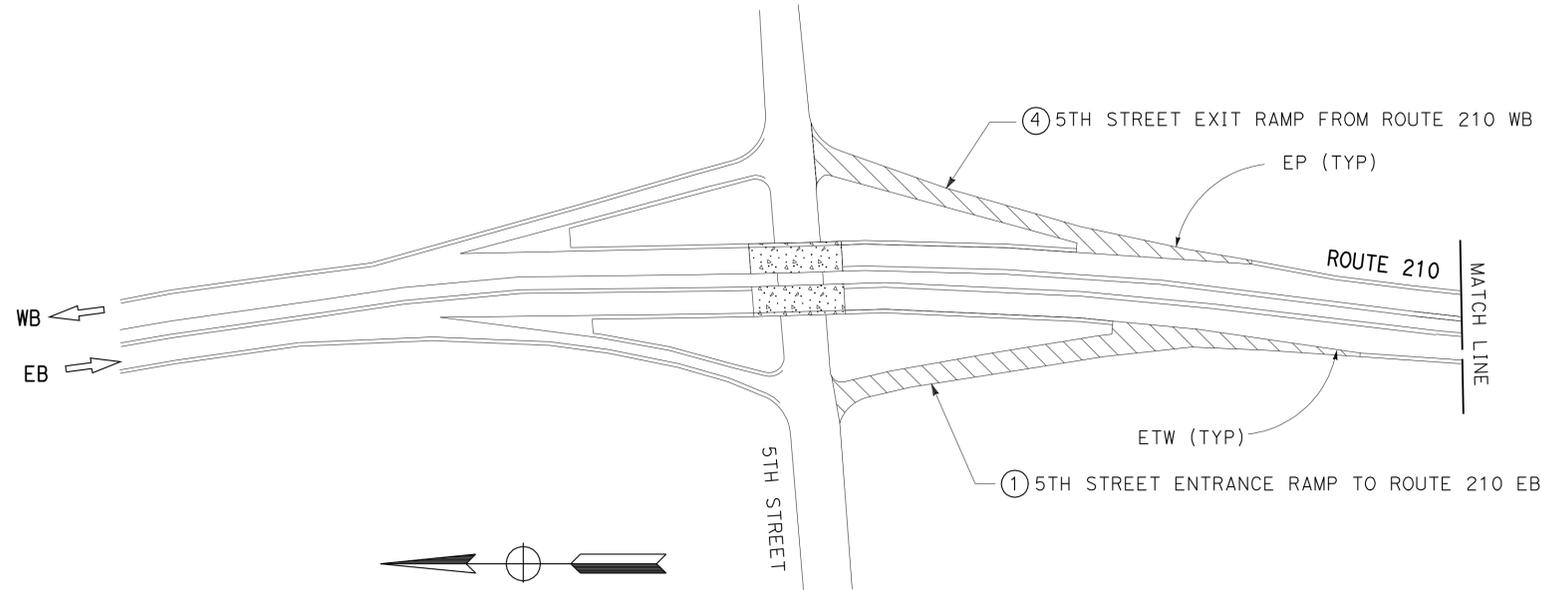
  

<i>Michael P. Ristic</i>	11-26-12
REGISTERED CIVIL ENGINEER	DATE
12-24-12	
PLANS APPROVAL DATE	

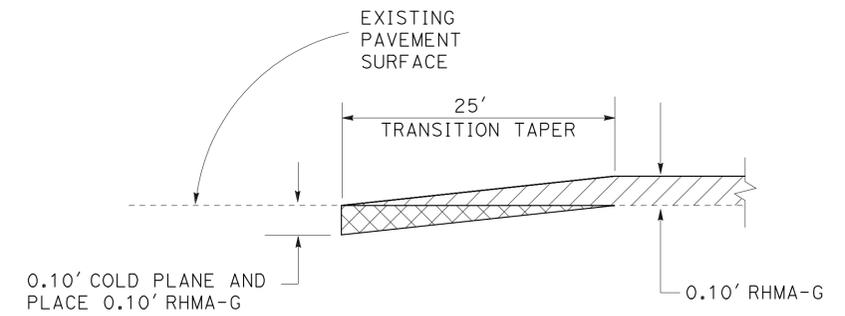
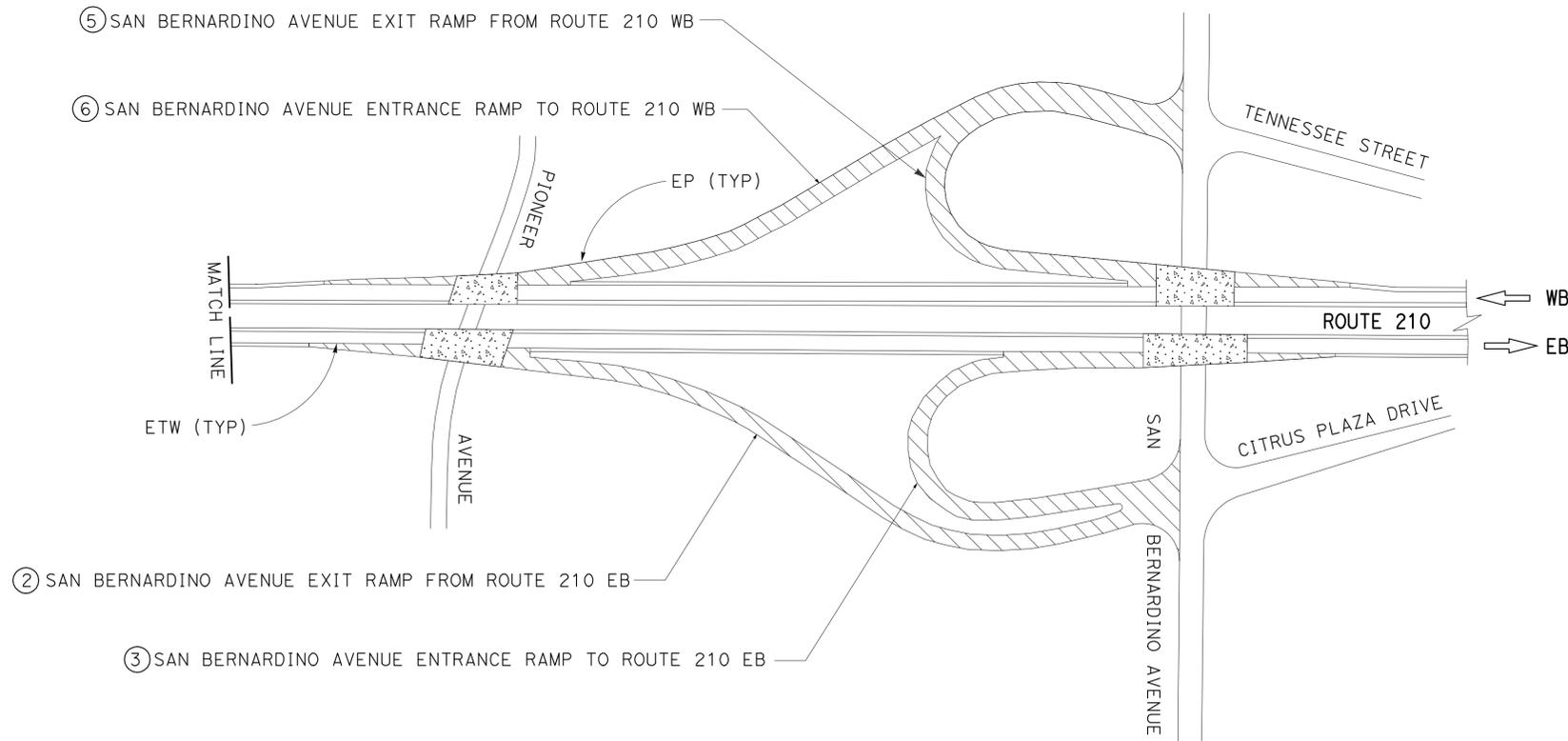
  

REGISTERED PROFESSIONAL ENGINEER
MICHAEL P. RISTIC
No. 69429
Exp. 06-30-14
CIVIL
STATE OF CALIFORNIA

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**ROUTE 210**  
PAVEMENT CONFORM (TRANSVERSE)



**ROUTE 210**  
PAVEMENT CONFORM (LONGITUDINAL)  
BEGIN AND END OF BRIDGES AND  
BEGIN AND END OF CONSTRUCTION

**ROUTE 210 RAMPS**  
LIMIT OF WORK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR: MICHAEL RISTIC  
 RHEA VILLARAMA  
 MICHAEL RISTIC  
 REVISIONS: REVISED BY: RHEA VILLARAMA, DATE: 7/2/2010  
 CALCULATED/DESIGNED BY: MICHAEL RISTIC, CHECKED BY: MICHAEL RISTIC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	SBd	83 210	0.0/7.2 30.2/33.2	8	34

<i>Thanh Trinh</i>		11-26-12
REGISTERED CIVIL ENGINEER	DATE	
12-24-12		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER	THANH TRINH
No. C41189	
Exp. 3-31-13	
CIVIL	

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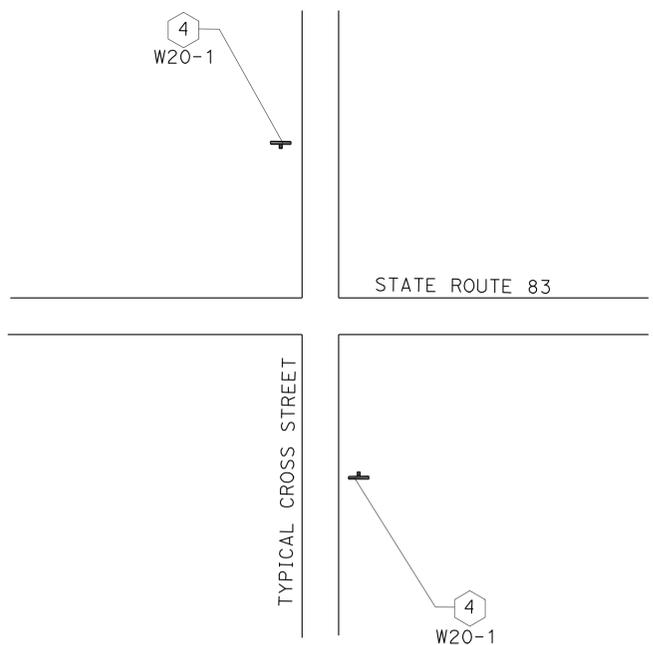
**NOTES:**

- ALL LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER
- REFER TO STANDARD PLANS T10, T11, T12, T13, T14, T15, T16, & T17 FOR TRAFFIC CONTROL SYSTEMS

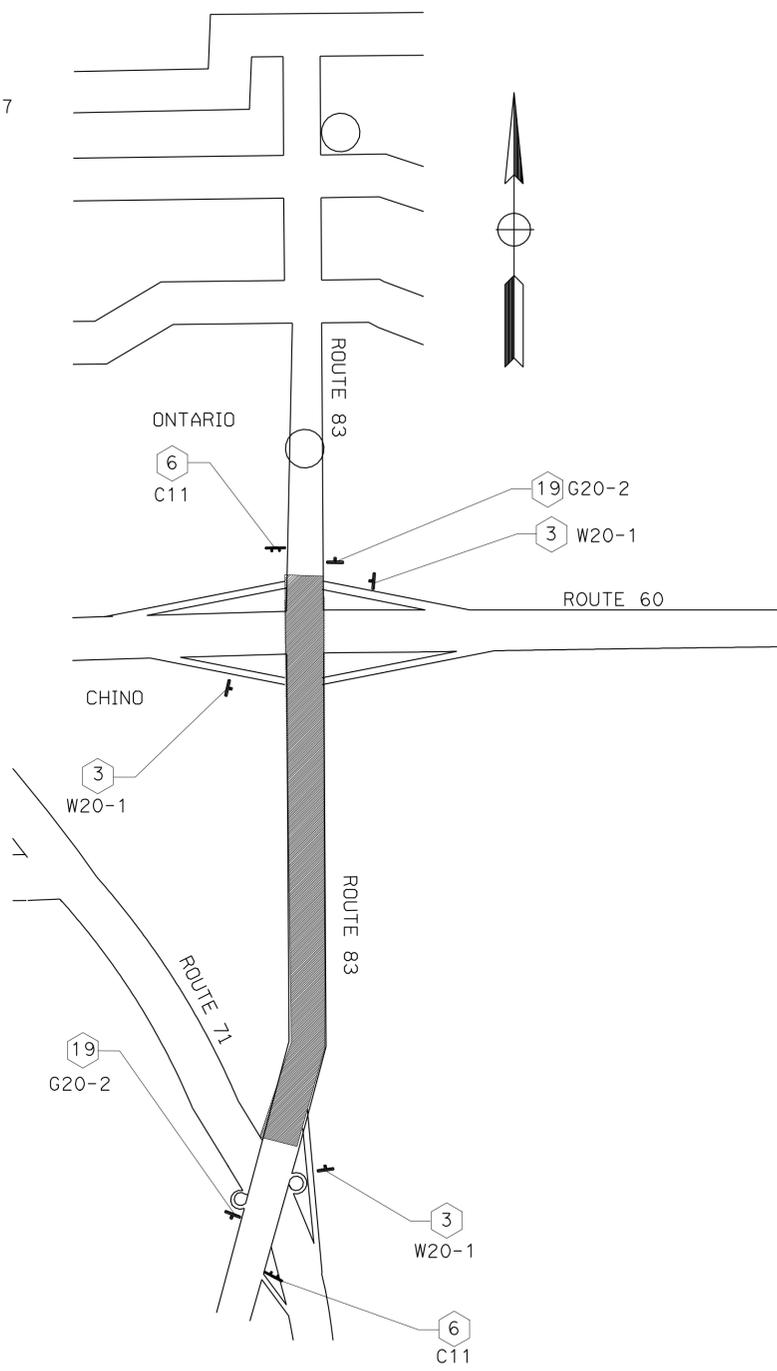
**LEGEND:**

- WORK AREA
- ⊥ CONSTRUCTION AREA SIGN (ONE POST)
- ⊥ CONSTRUCTION AREA SIGN (TWO POST)
- ⊗ CONSTRUCTION AREA SIGN NUMBER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
<b>Caltrans</b> TRAFFIC DESIGN	KEVIN NGUYEN	THANH TRINH
	CALCULATED/DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	BILL WASSER	

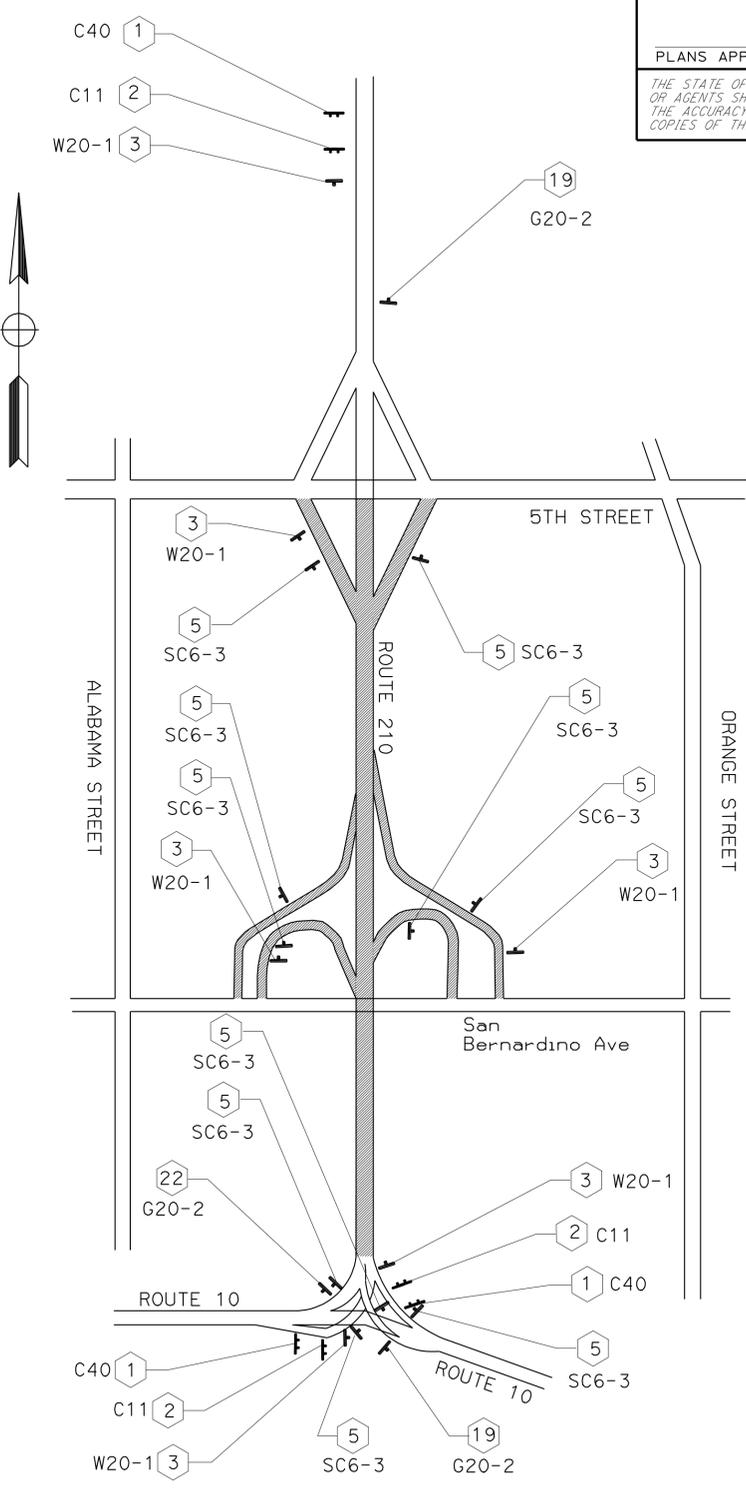


TYPICAL LOCATIONS OF CONSTRUCTION AREA SIGNS W20-1 AT LOCAL CROSS STREETS ON SR 83



**PCMS**

QUANTITY	4 EA
----------	------



**CONSTRUCTION AREA SIGNS**  
NO SCALE  
**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	SBd	83 210	0.0/7.2 30.2/33.2	9	34

*Thanh Trinh* 11-26-12  
 REGISTERED CIVIL ENGINEER DATE

12-24-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**THANH TRINH**  
 No. C41189  
 Exp. 3-31-13  
 CIVIL  
 STATE OF CALIFORNIA

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

### CONSTRUCTION AREA SIGNS

SHEET No.	SIGN	SIGN CODE		PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF STATIONARY CONSTRUCTION AREA SIGNS (EA) *N	REMARKS
		FEDERAL	CALIFORNIA					
CS-1	①		C40	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	3	
CS-1	②		C11	90" x 48"	ROAD WORK NEXT 3 MILES	2 - 6" x 6"	3	
CS-1	③	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	9	
CS-1	④	W20-1		36" x 36"	ROAD WORK AHEAD		31	W20-1 SIGNS AT LOCAL CROSS STREETS ON ROUTE 83
CS-1	⑤		SC6-3	48" x 48"	RAMP CLOSED	1 - 6" x 6"	10	
CS-1	⑥		C11	60" x 36"	ROAD WORK NEXT 7 MILES	2 - 4" x 6"	2	
MI-1	⑦	W20-2		36" x 36"	DETOUR AHEAD	1 - 4" x 6"	5	
MI-1, MI-2, MI-3, & MI-4	⑦a	M4-8A		24" x 18"	END DETOUR	1 - 4" x 4"	6	
MI-1, & MI-2	⑧	M4-10L		48" x 18"	← DETOUR	1 - 4" x 4"	8	
MI-1	⑨		SC3	36" x 12"	↑ DETOUR	1 - 4" x 4"	2	
MI-1	⑩	M4-10R		48" x 18"	DETOUR →	1 - 4" x 4"	4	
MI-1	⑪	M1-1(10)		48" x 48"	INTERSTATE ROUTE SHIELD (10)	1 - 6" x 6"	3	
			SC3	48" x 18"	↑ DETOUR			
MI-1, & MI-3	⑫	M1-1(10)		48" x 48"	INTERSTATE ROUTE SHIELD (10)	1 - 6" x 6"	2	
		M4-10R		48" x 18"	DETOUR →			
MI-1	⑬	M1-1(10)		48" x 48"	INTERSTATE ROUTE SHIELD (10)	1 - 6" x 6"	1	
		M4-10L		48" x 18"	← DETOUR			
MI-2	⑭		CS1	174" x 54"	SAN BERNARDINO AVE EXIT CLOSED USE 5TH ST EXIT	2 - 6" x 8"	1	
MI-2	⑮	D3(SAN)		72" x 18"	SAN BERNARDINO AVE	2 - 4" x 6"	2	
		M4-10R		48" x 18"	DETOUR →			
MI-2	⑯	D3(SAN)		72" x 18"	SAN BERNARDINO AVE	2 - 4" x 6"	1	
		M4-8		30" x 15"	DETOUR			
		M6-4		21" x 15"	Both direction symbol ↔			
MI-2	⑰	D3(SAN)		72" x 18"	SAN BERNARDINO AVE	2 - 4" x 6"	1	
		M4-10L		48" x 18"	← DETOUR			

\*N: FOR INFORMATION ONLY, NOT A SEPARATE PAY ITEM.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: BILL WASSER  
 CALCULATED/DESIGNED BY: KEVIN NGUYEN  
 CHECKED BY: THANH TRINH  
 REVISED BY: KEVIN NGUYEN  
 DATE REVISED: THANH TRINH

## CONSTRUCTION AREA SIGNS CS-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	SBd	83 210	0.0/7.2 30.2/33.2	10	34

*Thanh Trinh* 11-26-12  
 REGISTERED CIVIL ENGINEER DATE

12-24-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 THANH TRINH  
 No. C41189  
 Exp. 3-31-13  
 CIVIL  
 STATE OF CALIFORNIA

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### CONSTRUCTION AREA SIGNS

SHEET No.	SIGN	SIGN CODE		PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF STATIONARY CONSTRUCTION AREA SIGNS (EA) *N	REMARKS
		FEDERAL	CALIFORNIA					
MI-2	18	M4-8		30" x 15"	DETOUR	1 - 6" x 6"	4	
		M6-2		21" x 15"	↘			
CS-1	19	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	5	
MI-3	20		CS-2	96" x 84"	210 WEST CONNECTOR CLOSED USE DETOUR	2 - 6" x 8"	2	
	21		G28-2(210)	35" x 31.25"	STATE ROUTE SHIELD (210)	1 - 6" x 6"	2	
		M4-8		30" x 15"	DETOUR			
	22		G28-2(210)	35" x 31.25"	STATE ROUTE SHIELD (210)	1 - 6" x 6"	1	
		M4-10(R)		48" x 18"	DETOUR →			
	23		G28-2(210)	35" x 31.25"	STATE ROUTE SHIELD (210)	1 - 6" x 6"	1	
		M4-10(L)		48" x 18"	← DETOUR			
	24		G28-2(210)	35" x 31.25"	STATE ROUTE SHIELD (210)	1 - 6" x 6"	3	
		SC3		48" x 18"	↑ DETOUR			
	25		CS-3	96" x 84"	10 EAST CONNECTOR CLOSED USE DETOUR	2 - 6" x 8"	1	
	26	M1-1(10)		48" x 48"	INTERSTATE ROUTE SHIELD (10)	1 - 6" x 6"	2	
		M3-2		30" x 15"	EAST			
	27	M4-10(R)		48" x 18"	DETOUR →	1 - 6" x 6"	2	
		M1-1(10)		48" x 48"	INTERSTATE ROUTE SHIELD (10)			
28	M3-2		30" x 15"	EAST	1 - 6" x 6"	1		
	M4-10(L)		48" x 18"	← DETOUR				
29	M1-1(10)		48" x 48"	INTERSTATE ROUTE SHIELD (10)	1 - 6" x 6"	3		
	M3-2		30" x 15"	EAST				
30	M4-10(R)		48" x 18"	DETOUR →	1 - 6" x 6"	1		
	M1-1(10)		48" x 48"	INTERSTATE ROUTE SHIELD (10)				
31	M3-4		30" x 15"	WEST	1 - 6" x 6"	1		
	M4-10(L)		48" x 18"	← DETOUR				

\*N: FOR INFORMATION ONLY, NOT A SEPARATE PAY ITEM.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: BILL WASSER  
 CALCULATED/DESIGNED BY: KEVIN NGUYEN  
 CHECKED BY: THANH TRINH  
 REVISED BY: KEVIN NGUYEN  
 DATE REVISED: THANH TRINH

## CONSTRUCTION AREA SIGNS CS-3

LAST REVISION: DATE PLOTTED => 18-DEC-2012  
 00-26-02 TIME PLOTTED => 10:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	SBd	83 210	0.0/7.2 30.2/33.2	11	34

<i>Thanh Trinh</i>		11-26-12
REGISTERED CIVIL ENGINEER	DATE	
12-24-12		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER	
THANH TRINH	
No. C41189	
Exp. 3-31-13	
CIVIL	

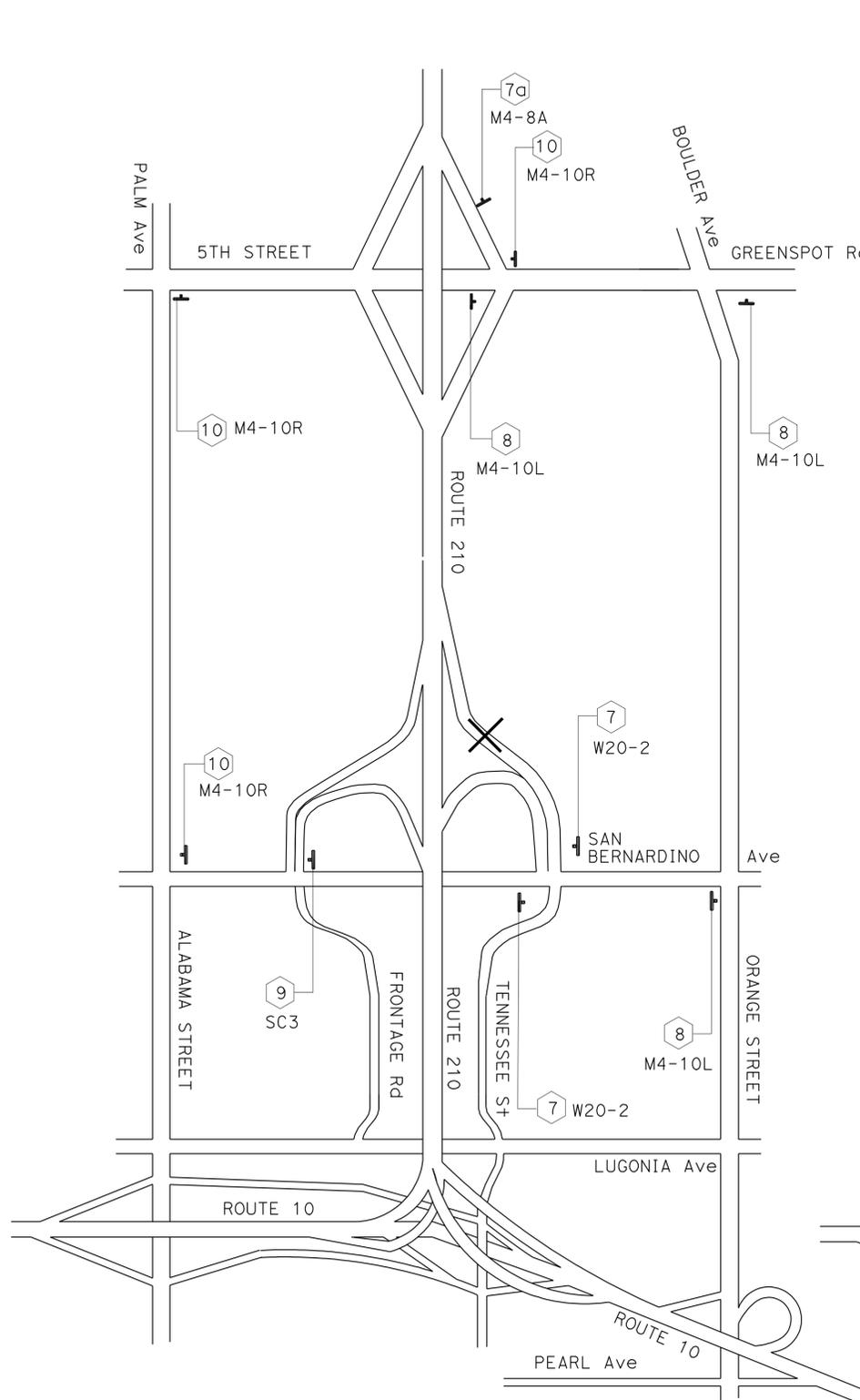
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**NOTE:**

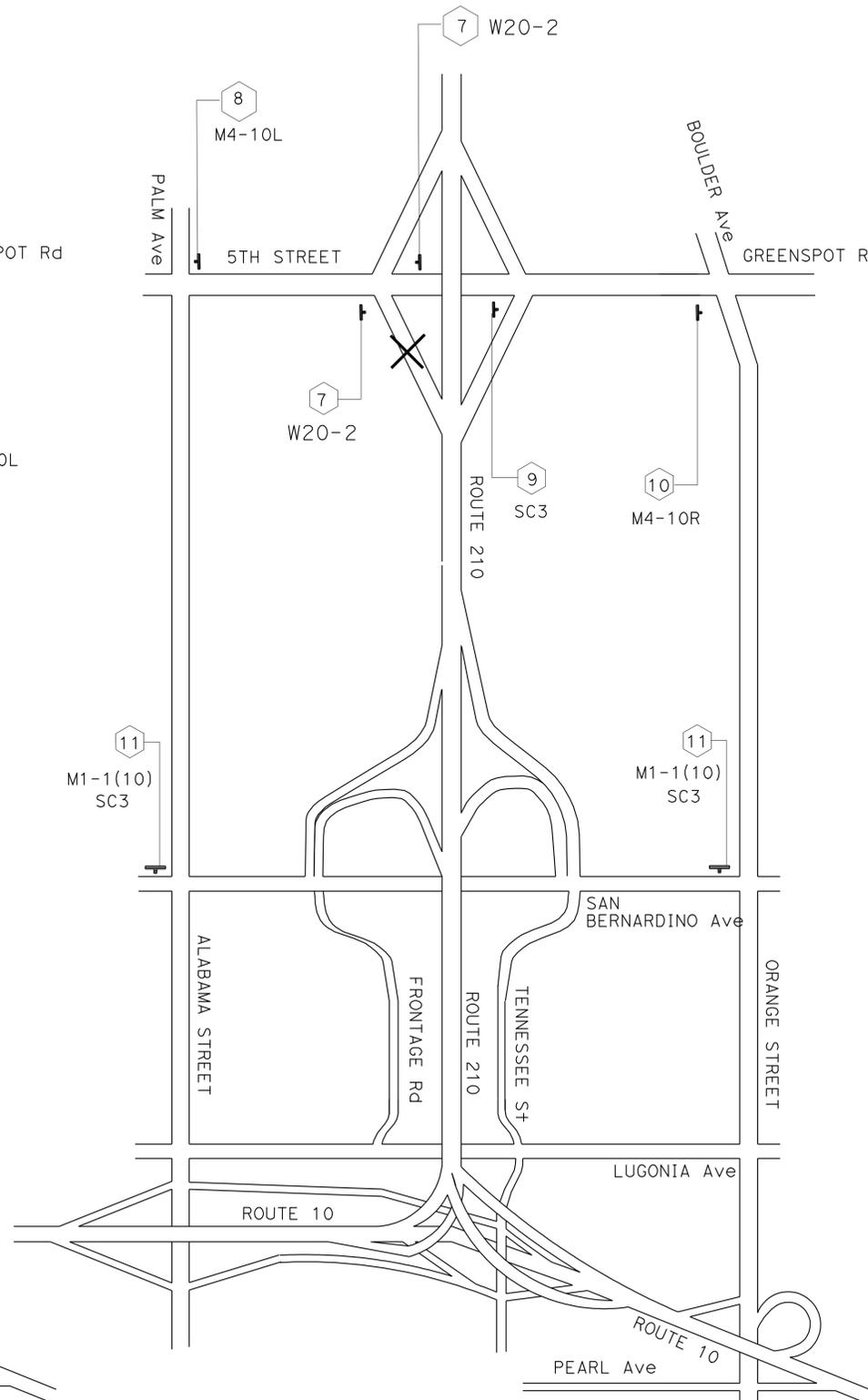
1. DETOUR PLANS FOR RAMP AND CONNECTOR CLOSURES

**LEGEND:**

- ✕ RAMP/CONNECTOR CLOSED
- ⊥ CONSTRUCTION AREA SIGN (ONE POST)
- ⊥ CONSTRUCTION AREA SIGN (TWO POST)
- ⊗ CONSTRUCTION AREA SIGN LETTER



**SAN BERNARDINO Ave WB  
ENTRANCE RAMP DETOUR**



**5TH STREET EB  
ENTRANCE RAMP DETOUR**



**SAN BERNARDINO Ave EB  
ENTRANCE RAMP DETOUR**

**MOTORIST INFORMATION PLAN  
NO SCALE  
MI-1**

APPROVED FOR MOTORIST INFORMATION WORK ONLY



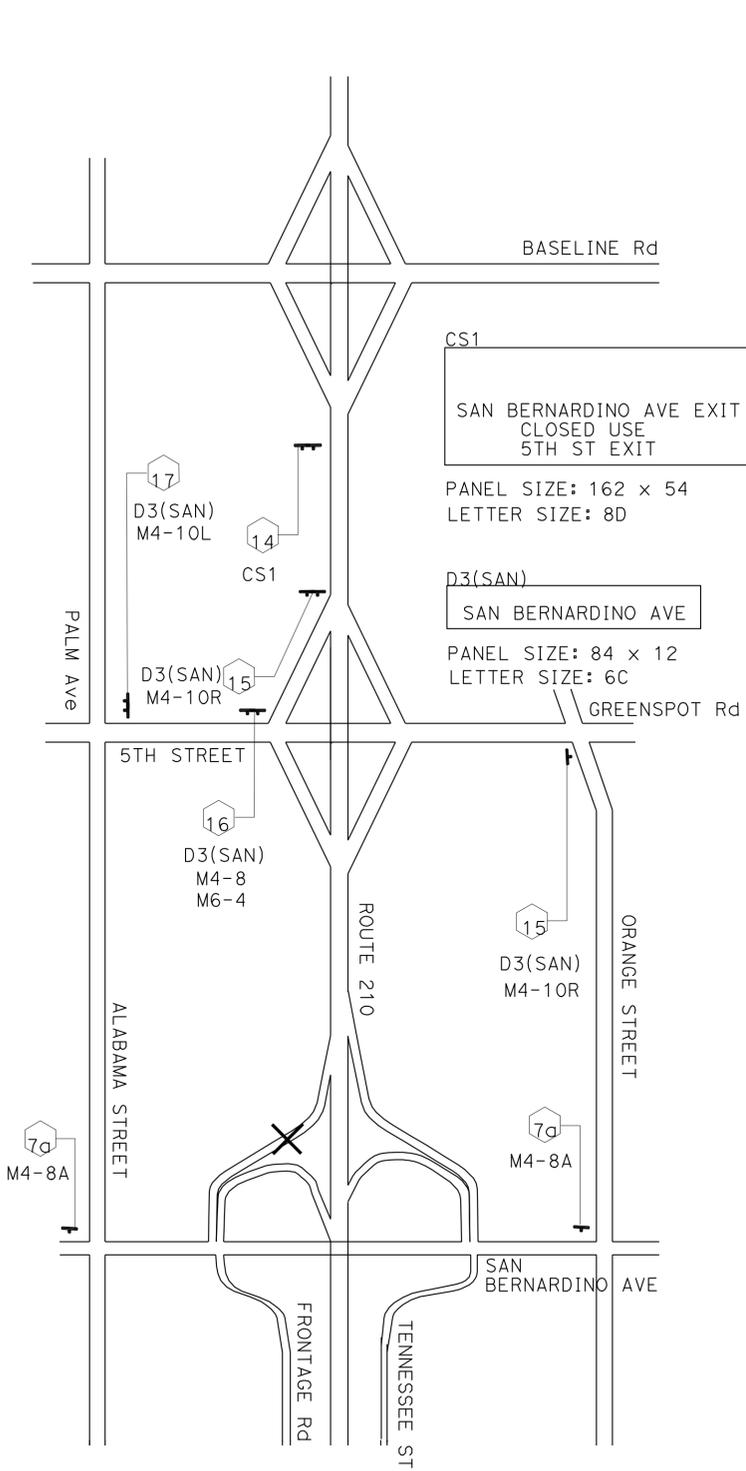
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	THANH TRINH
		DESIGNED BY	KEVIN NGUYEN
			DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	SBd	83 210	0.0/7.2 30.2/33.2	12	34

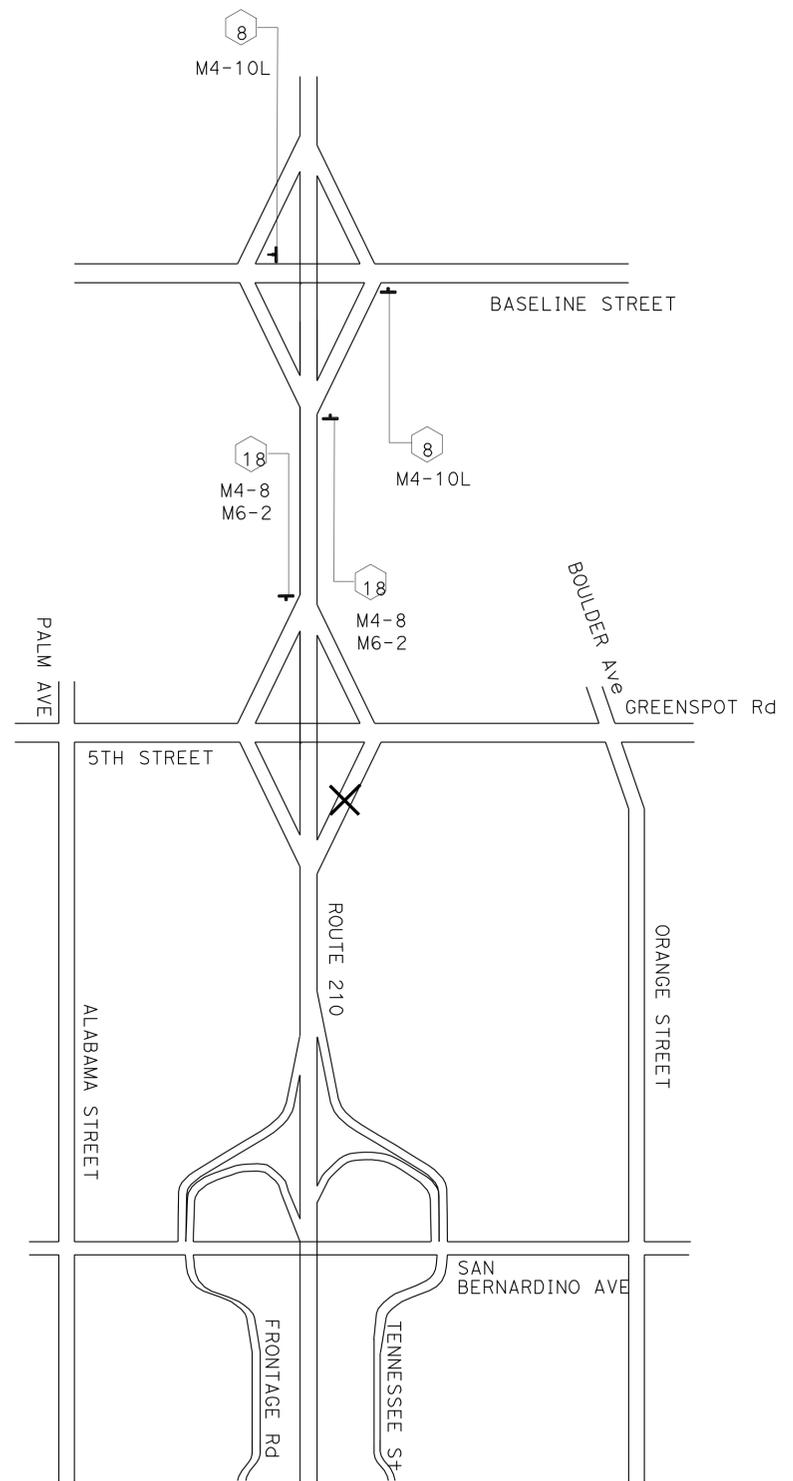
*Thanh Trinh* 11-26-12  
 REGISTERED CIVIL ENGINEER DATE  
 12-24-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 No. C41189  
 Exp. 3-31-13  
 CIVIL  
 STATE OF CALIFORNIA

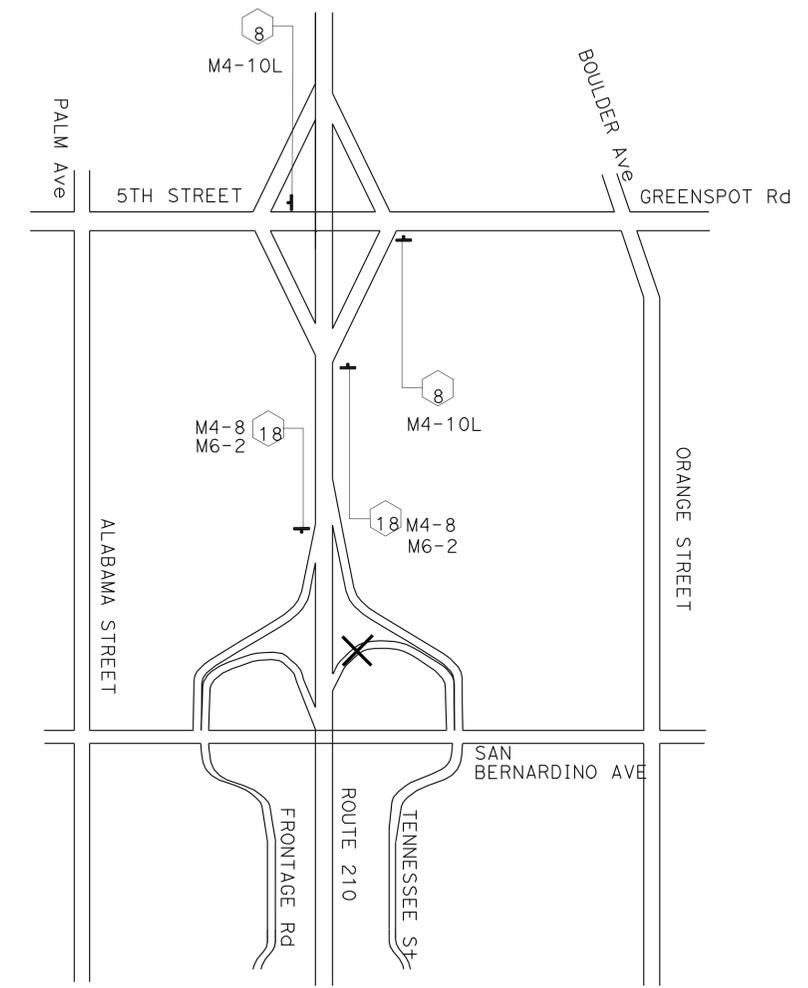
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**SAN BERNARDINO Ave EB  
EXIT RAMP DETOUR**



**5TH STREET WB EXIT RAMP DETOUR**



**SAN BERNARDINO Ave WB  
EXIT RAMP DETOUR**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: BILL WASSER  
 CALCULATED/DESIGNED BY: KEVIN NGUYEN  
 CHECKED BY: THANH TRINH  
 REVISED BY: KEVIN NGUYEN  
 DATE REVISED: THANH TRINH

APPROVED FOR MOTORIST INFORMATION WORK ONLY

**MOTORIST INFORMATION PLAN**  
NO SCALE  
**MI-2**

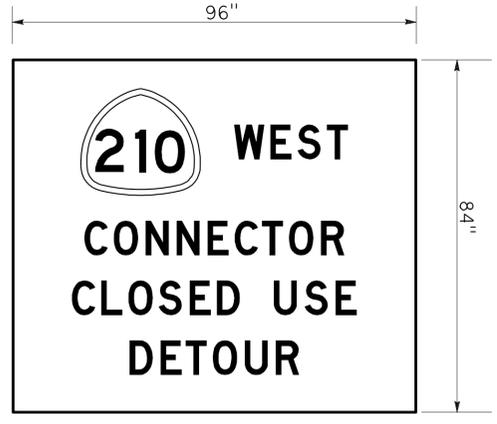
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	SBd	83 210	0.0/7.2 30.2/33.2	13	34

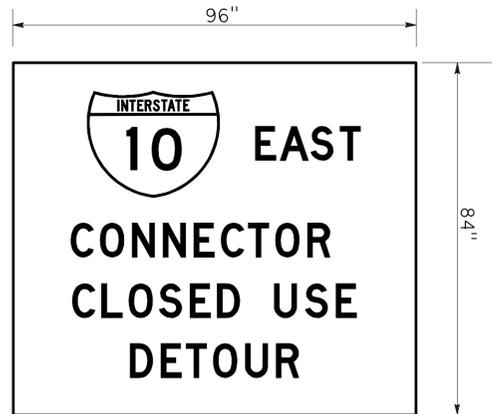
<i>Thanh Trinh</i>		11-26-12
REGISTERED CIVIL ENGINEER	DATE	
12-24-12		
PLANS APPROVAL DATE		

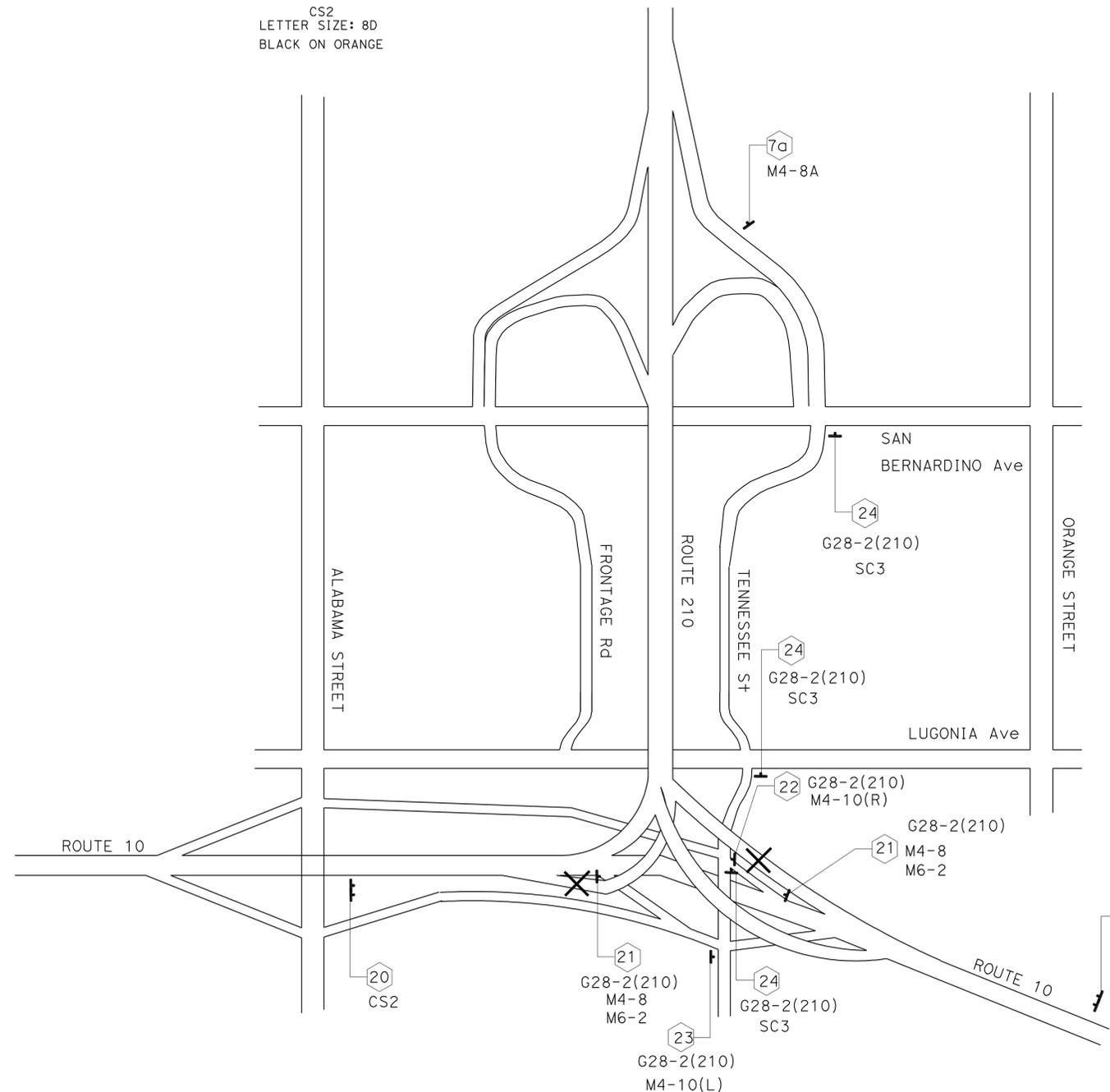
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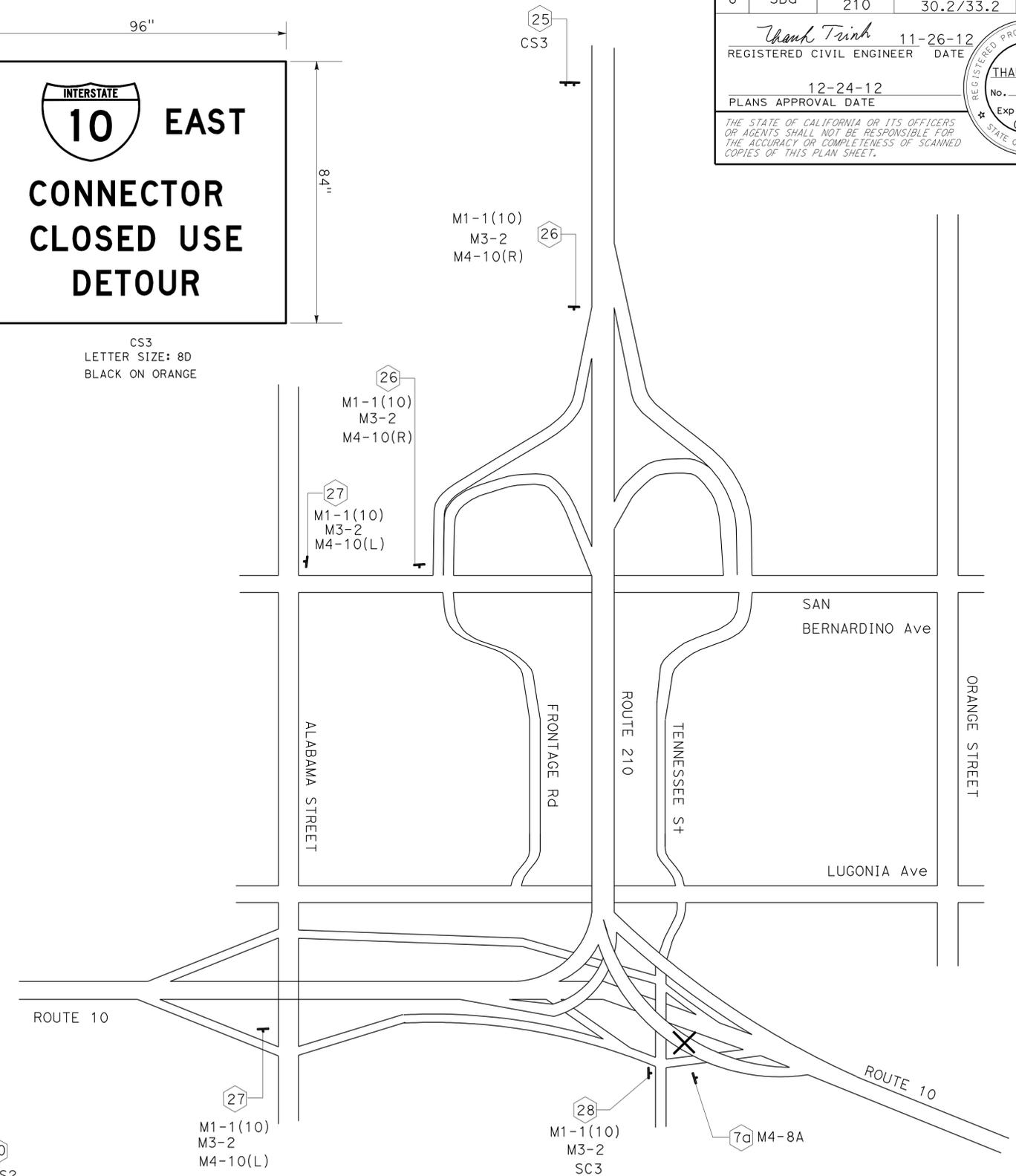
CS2  
LETTER SIZE: 8D  
BLACK ON ORANGE



CS3  
LETTER SIZE: 8D  
BLACK ON ORANGE



**ROUTE 210 WESTBOUND CONNECTOR CLOSURE DETOUR**



**ROUTE 10 EASTBOUND CONNECTOR CLOSURE DETOUR**

**MOTORIST INFORMATION PLAN MI-3**  
NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	THANH TRINH	KEVIN NGUYEN
	CHECKED BY	DATE REVISOR	DATE REVISOR



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	SBd	83 210	0.0/7.2 30.2/33.2	14	34

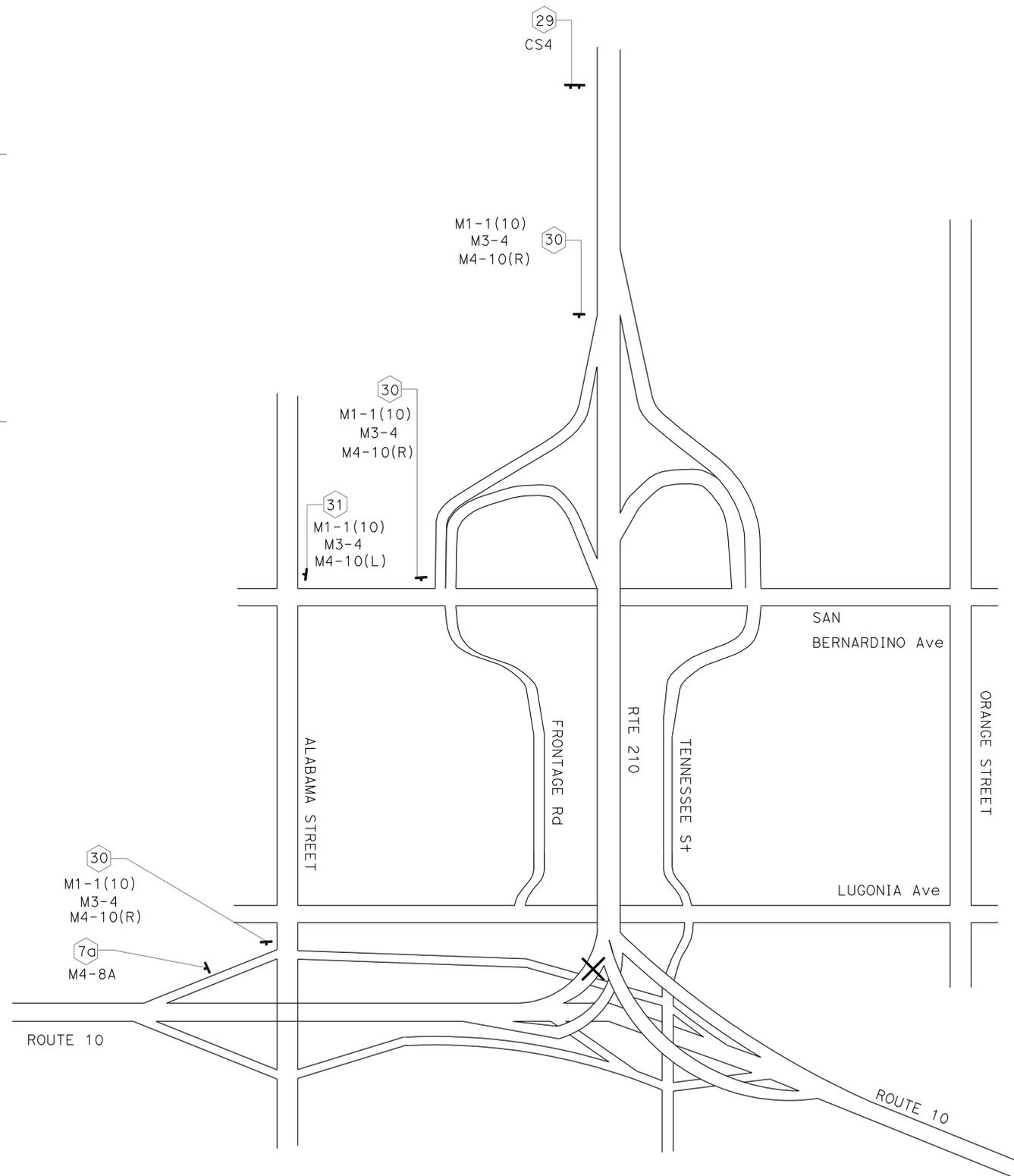
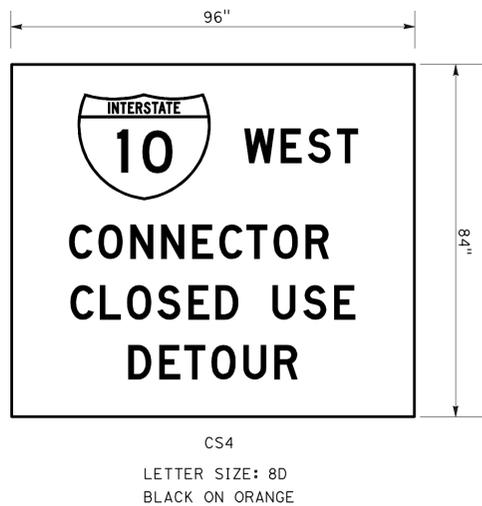
  

<i>Thanh Trinh</i>		11-26-12
REGISTERED CIVIL ENGINEER	DATE	
12-24-12		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER	THANH TRINH
No. C41189	Exp. 3-31-13
CIVIL	

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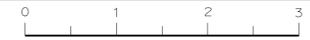


**ROUTE 10 WESTBOUND CONNECTOR CLOSURE DETOUR**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> TRAFFIC DESIGN	BILL WASSER	CHECKED BY	THANH TRINH
			DATE REVISED

**MOTORIST INFORMATION PLAN**  
NO SCALE  
**MI-4**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	16	34

11-26-12  
 REGISTERED CIVIL ENGINEER DATE  
 12-24-12  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 MICHAEL P. RISTIC  
 No. 69429  
 Exp. 6-30-14  
 CIVIL  
 STATE OF CALIFORNIA

### PAVEMENT QUANTITIES

ROUTE	BEGIN PM	END PM	AVERAGE WIDTH (FT)	MICRO-SURFACING (TON)	COLD PLANE AC SURFACING (SQYD)	RHMA-G (TON)	TACK COAT (TON)
83	R0.0	0.6	86	484			
	0.6	0.7	58	54			
	0.7	0.9	56	105			
	0.9	1.1	80	150			
	1.1	1.4	96	270			
	1.4	1.5	94	88			
	1.5	1.9	80	300			
	1.9	2.1	78	146			
	2.1	2.7	80	451			
	2.7	3.9	76	856			
	3.9	4.4	78		22,880	1,493	5.7
	4.4	4.5	86		5,045	329	1.3
	4.5	5.3	78		36,608	2,389	9.2
	5.3	5.4	94		5,515	360	1.4
	5.4	5.9	78		22,880	1,493	5.7
	5.9	6.2	76		13,376	873	3.3
6.2	6.4	74		8,683	567	2.2	
6.4	6.6	98		11,499	750	2.9	
6.6	7.2	92		32,384	2,113	8.1	
210	R30.2	R31.9	84	894	8,134	3,644	14.0
	R31.9	R32.3	96	255	1,878	1,041	4.0
	R32.3	R32.7	96	255	1,877	1,041	4.0
	R32.7	R33.2	84	263	2,502	1,072	4.1
SUBTOTAL				4,571	173,261	17,165	65.9
TOTAL FROM ROUTE 210 RAMP QUANTITIES (TABLE)				535			
TOTAL				5,106	173,261	17,165	65.9

### REPAIR WHEEL PATH DEPRESSION

ROUTE	LOCATION (PM)	TOTAL AREA (SF)	REPAIR WHEEL PATH DEPRESSION (TON)
83	R0.0/2.7	10,391	166
210	R30.2/R33.2	547	9
TOTAL			175

EXACT LOCATIONS AND DIMENSIONS OF REPAIR WHEEL PATH DEPRESSION WILL BE DETERMINED BY THE ENGINEER.

### ROUTE 210 RAMP QUANTITIES

LOCATION No.	DESCRIPTION	AVERAGE LENGTH (FT)	AVERAGE WIDTH (FT)	AREA (SQYD)	MICRO-SURFACING (TON)
1	5TH STREET ENTRANCE RAMP TO ROUTE 210 EB	1150	38	4,856	78
2	SAN BERNARDINO AVENUE EXIT RAMP FROM ROUTE 210 EB	1520	38	6,418	103
3	SAN BERNARDINO AVENUE EXIT RAMP TO ROUTE 210 EB	1340	38	5,658	91
4	5TH STREET EXIT RAMP FROM ROUTE 210 WB	1230	38	5,193	83
5	SAN BERNARDINO AVENUE EXIT RAMP FROM ROUTE 210 WB	1150	38	4,856	78
6	SAN BERNARDINO AVENUE ENTRANCE RAMP TO ROUTE 210 WB	1515	38	6,397	102
TOTAL					535

\* SEE PAVEMENT QUANTITIES TABLE FOR TOTAL

### REPLACE AC SURFACING QUANTITIES

ROUTE	LOCATION (PM)	TOTAL AREA (SF)	REPLACE ASPHALT CONCRETE SURFACING (CY)
83	R0.0/3.0	74,250	1,100
83	3.0/7.2	47,250	700
210	R30.2/R33.2	81,000	1,200
TOTAL			3,000

EXACT LOCATIONS AND DIMENSIONS OF REPLACE AC SURFACING WILL BE DETERMINED BY THE ENGINEER.

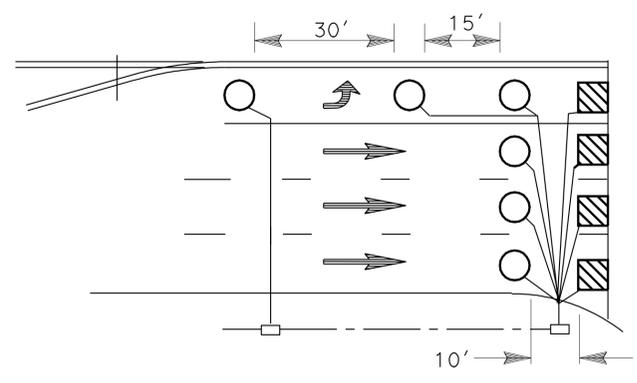
## SUMMARY OF QUANTITIES Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 RHEA VILLARAMA  
 MICHAEL RISTIC  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 FUNCTIONAL SUPERVISOR  
 MICHAEL RISTIC  
 MAINTENANCE ENGINEERING

REVISED BY  
 DATE REVISED

**GENERAL NOTES (SHEETS E-1 THRU E-8):**

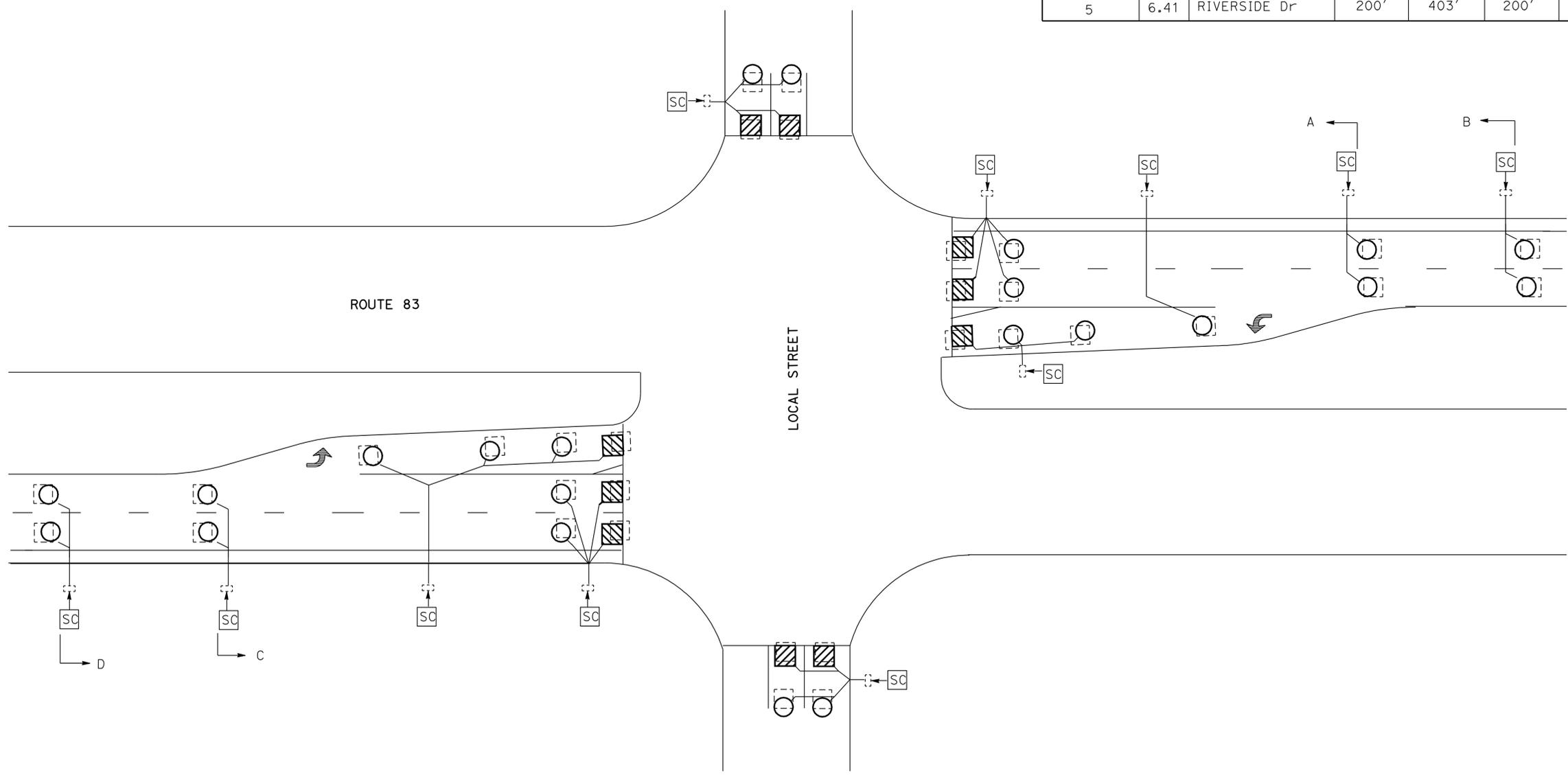
1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF OF THE INDUCTIVE LOOP DETECTORS.
2. **AB** ALL EXISTING INDUCTIVE LOOP DETECTORS SHOWN ON PLAN.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FIVE WORKING DAYS PRIOR TO INSTALLING DETECTOR LOOPS AND ANY WORK PERFORM AT TRAFFIC SIGNAL LOCATIONS.
4. LABEL CONDUCTOR ENDS AS PER STNADARD PLAN ES-13B.
5. THESE PLANS ARE ACCURATE FOR LOOP DETECTOR REPLACEMENT ONLY OTHER SIGNAL ITEMS ARE NOT SHOWN.



**TYPICAL LOOP DETECTOR LAYOUT**

**LOOP LOCATIONS (SHEET E-1 THRU E-4 ONLY)**

LOCATION	PM	LOCAL STREET	DISTANCE TO LIMIT LINE			
			A	B	C	D
1	4.42	EUCALYPTUS Ave	200'	403'	200'	403'
2	4.92	EDISON Ave	180'	250'	160'	320'
3	5.4	SCHAEFER Ave	200'	403'	200'	403'
4	5.92	CHINO Ave	200'	403'	200'	403'
5	6.41	RIVERSIDE Dr	200'	403'	200'	403'



**LOCATIONS 1 & 3**

**INDUCTIVE LOOP DETECTOR**  
NO SCALE  
**E-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ELECTRICAL DESIGN B  
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ  
 CALCULATED/DESIGNED BY: FERDINAND DE LA CRUZ  
 CHECKED BY:  
 SANDY TUNG  
 REVISOR: FERDINAND DE LA CRUZ  
 DATE REVISOR:

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**® ELECTRICAL DESIGN B

FUNCTIONAL SUPERVISOR  
 FERDINAND DE LA CRUZ

CALCULATED/DESIGNED BY  
 CHECKED BY

SANDY TUNG  
 FERDINAND DE LA CRUZ

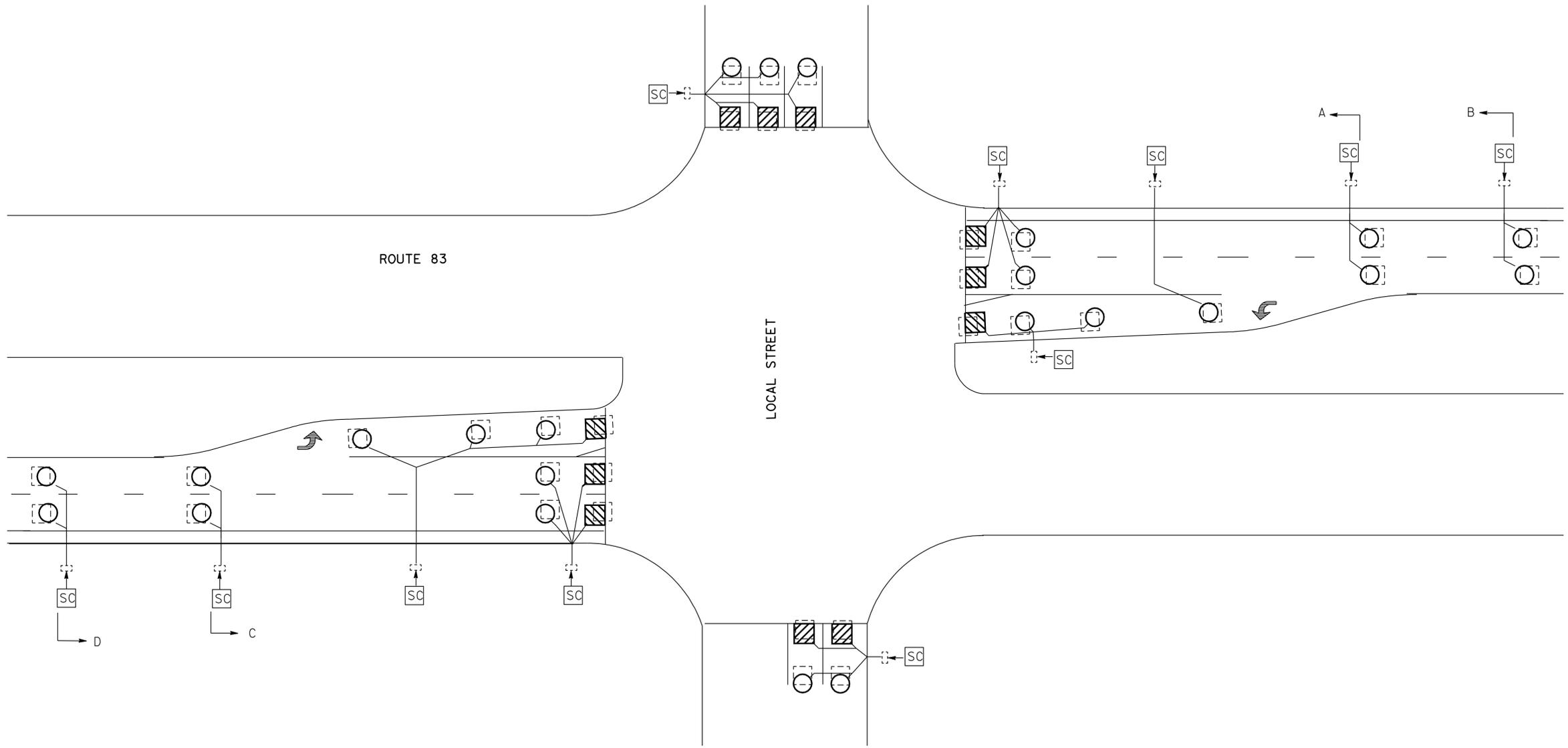
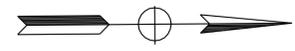
REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	0.0/7.2 30.2/33.2	18	34

*Ferdinand De la Cruz* 11-26-12  
 REGISTERED ELECTRICAL ENGINEER DATE  
 12-24-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 FERDINAND DE LA CRUZ  
 No. E17215  
 Exp. 6-30-12  
 ELECTRICAL  
 STATE OF CALIFORNIA

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**LOCATION 2**

**INDUCTIVE LOOP DETECTOR**  
 NO SCALE  
**E-2**

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**® ELECTRICAL DESIGN B

FUNCTIONAL SUPERVISOR  
 FERDINAND DE LA CRUZ

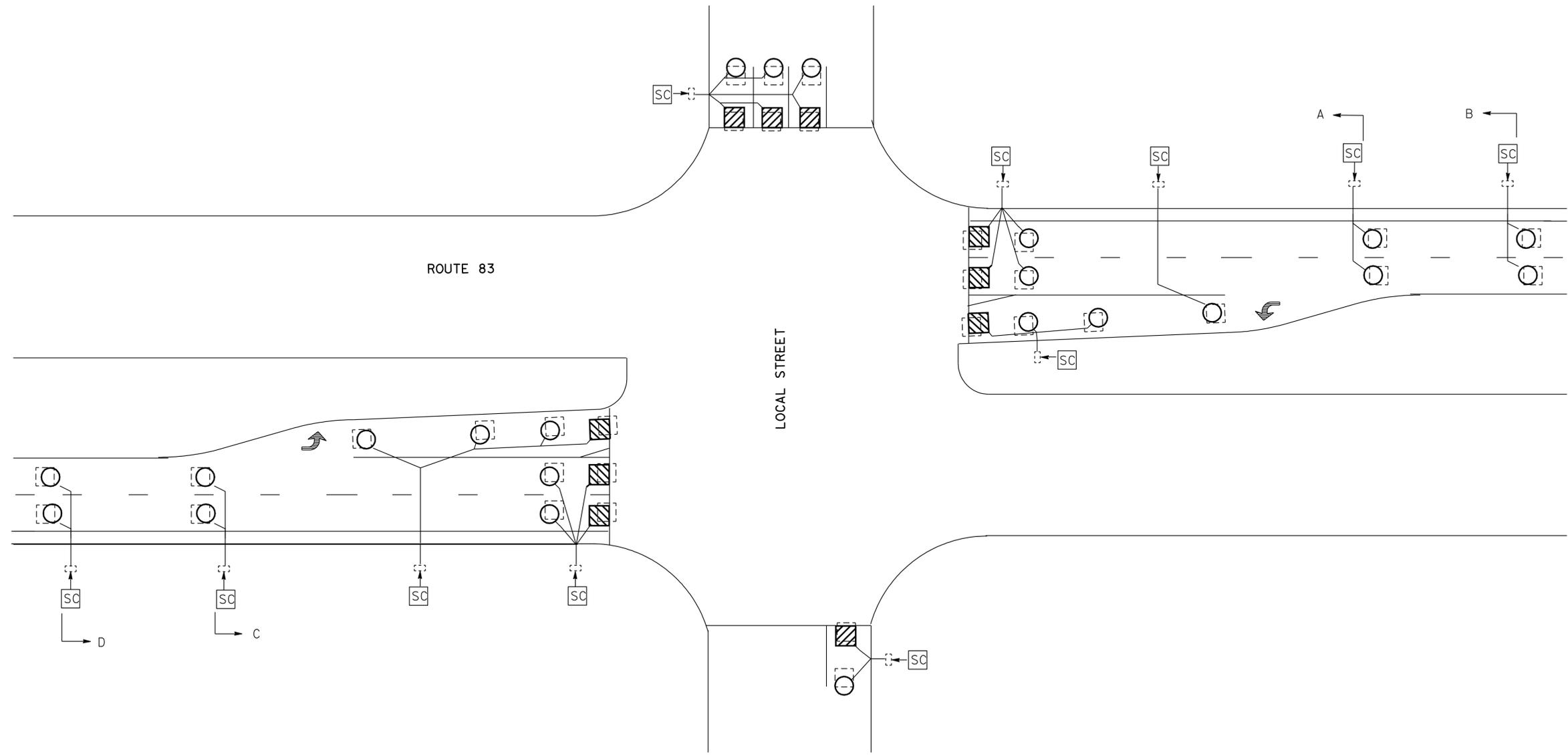
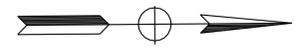
CALCULATED / DESIGNED BY  
 CHECKED BY

SANDY TUNG  
 FERDINAND DE LA CRUZ

REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	0.0/7.2 30.2/33.2	19	34

*Ferdinand De la Cruz* 11-26-12  
 REGISTERED ELECTRICAL ENGINEER DATE  
 12-24-12  
 PLANS APPROVAL DATE  
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**LOCATION 4**

**INDUCTIVE LOOP DETECTOR**  
 NO SCALE  
**E-3**

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 FERDINAND DE LA CRUZ

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SANDY TUNG  
 FERDINAND DE LA CRUZ

REVISED BY  
 DATE

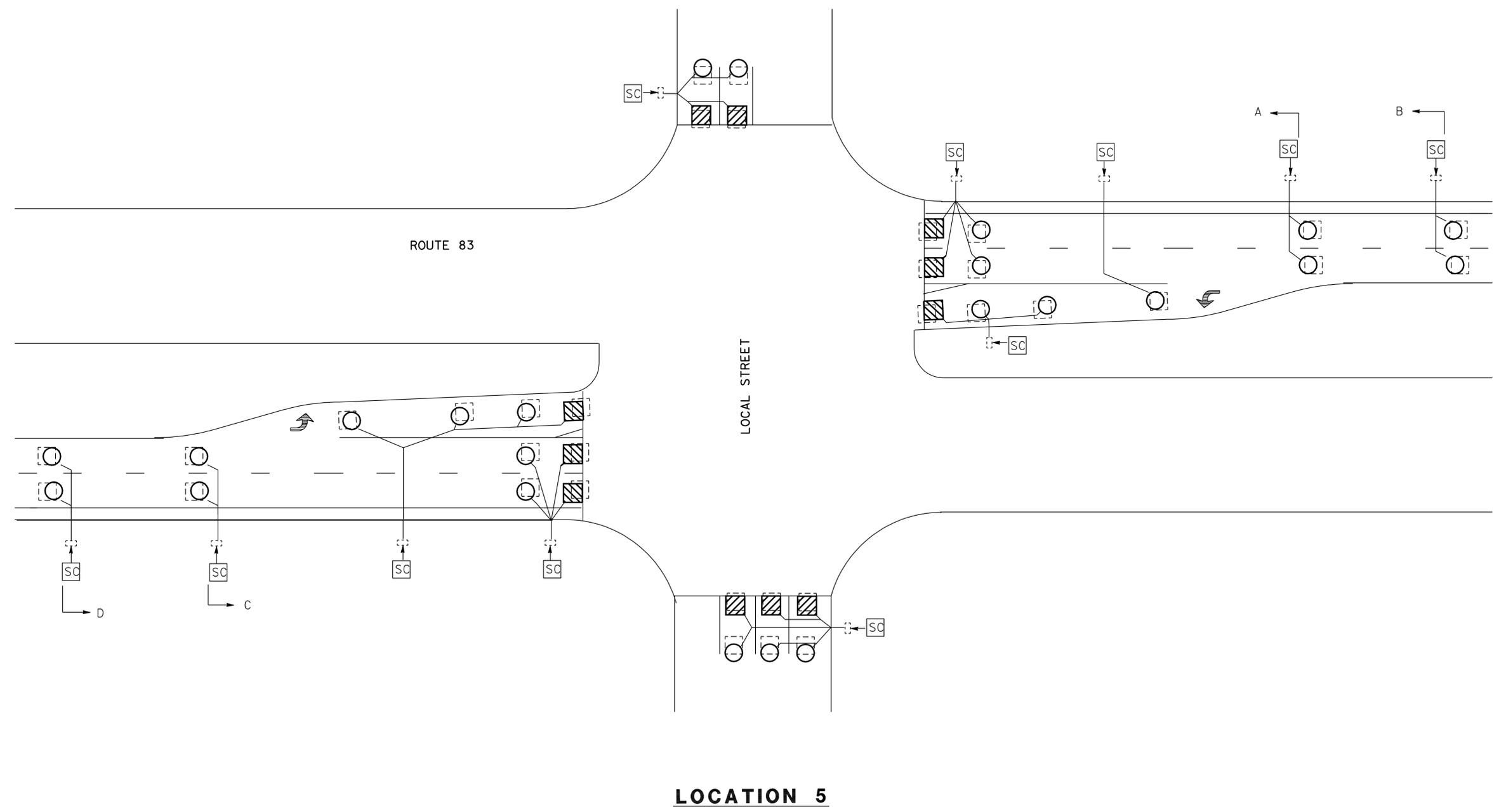
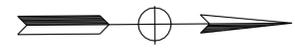
REVISED BY  
 DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	0.0/7.2 30.2/33.2	20	34

*Ferdinand De la Cruz* 11-26-12  
 REGISTERED ELECTRICAL ENGINEER DATE  
 12-24-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 FERDINAND DE LA CRUZ  
 No. E17215  
 Exp 6-30-12  
 ELECTRICAL  
 STATE OF CALIFORNIA

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**LOCATION 5**

**INDUCTIVE LOOP DETECTOR**  
 NO SCALE  
**E-4**

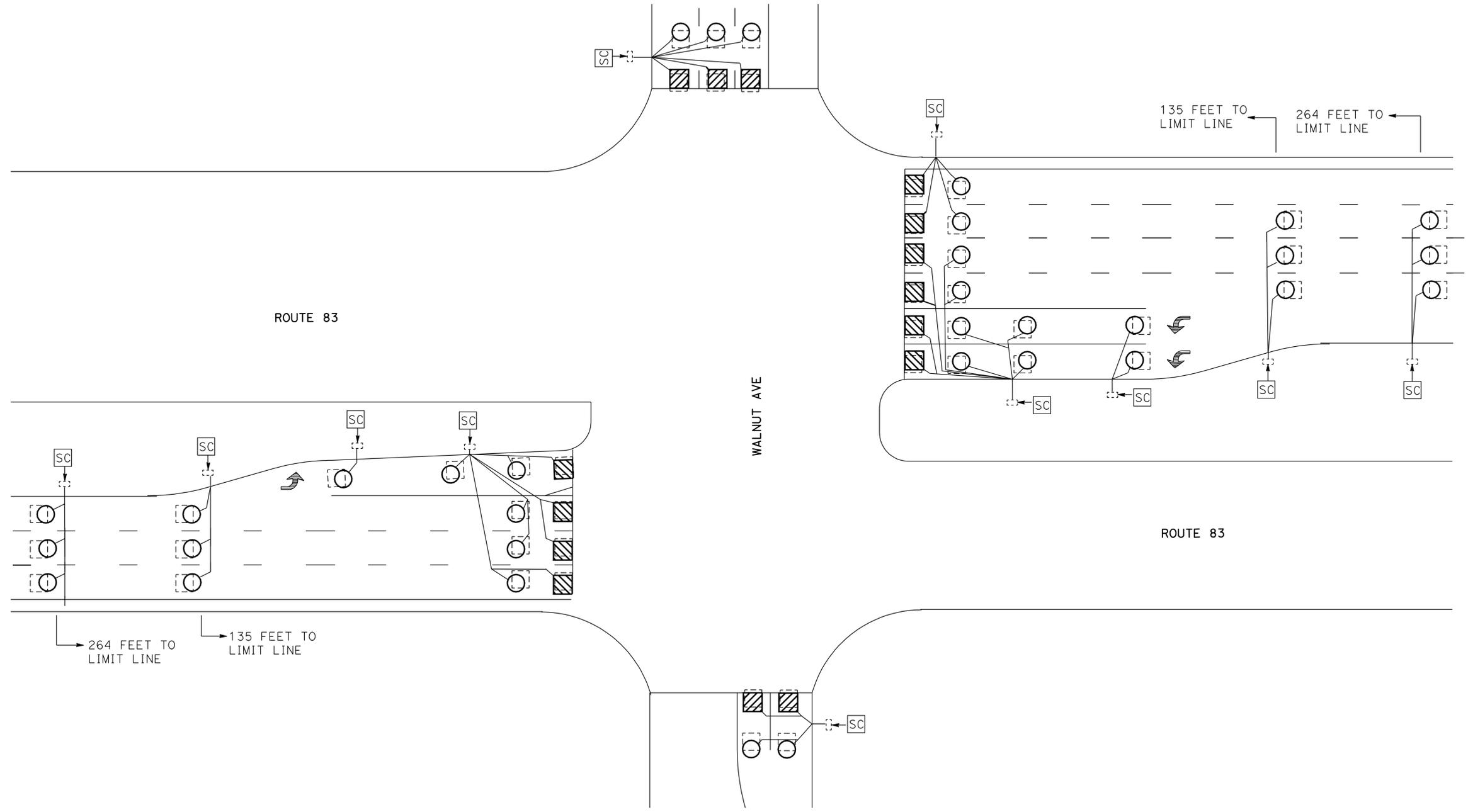
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	0.0/7.2 30.2/33.2	21	34

11-26-12  
 REGISTERED ELECTRICAL ENGINEER DATE  
 12-24-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 FERDINAND DELA CRUZ  
 No. E17215  
 Exp. 6-30-12  
 ELECTRICAL  
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**LOCATION 6**  
PM 6.91  
EXISTING TRAFFIC SIGNAL

**INDUCTIVE LOOP DETECTOR**  
NO SCALE  
**E-5**

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<b>Caltrans</b> ELECTRICAL DESIGN B	FERDINAND DE LA CRUZ	CHECKED BY	SANDY TUNG
			FERDINAND DE LA CRUZ
			DATE
			REVISOR
			DATE

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FUNCTIONAL SUPERVISOR  
 FERDINAND DE LA CRUZ

CALCULATED/DESIGNED BY  
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SANDY TUNG  
 FERDINAND DE LA CRUZ

REVISED BY  
 DATE REVISED

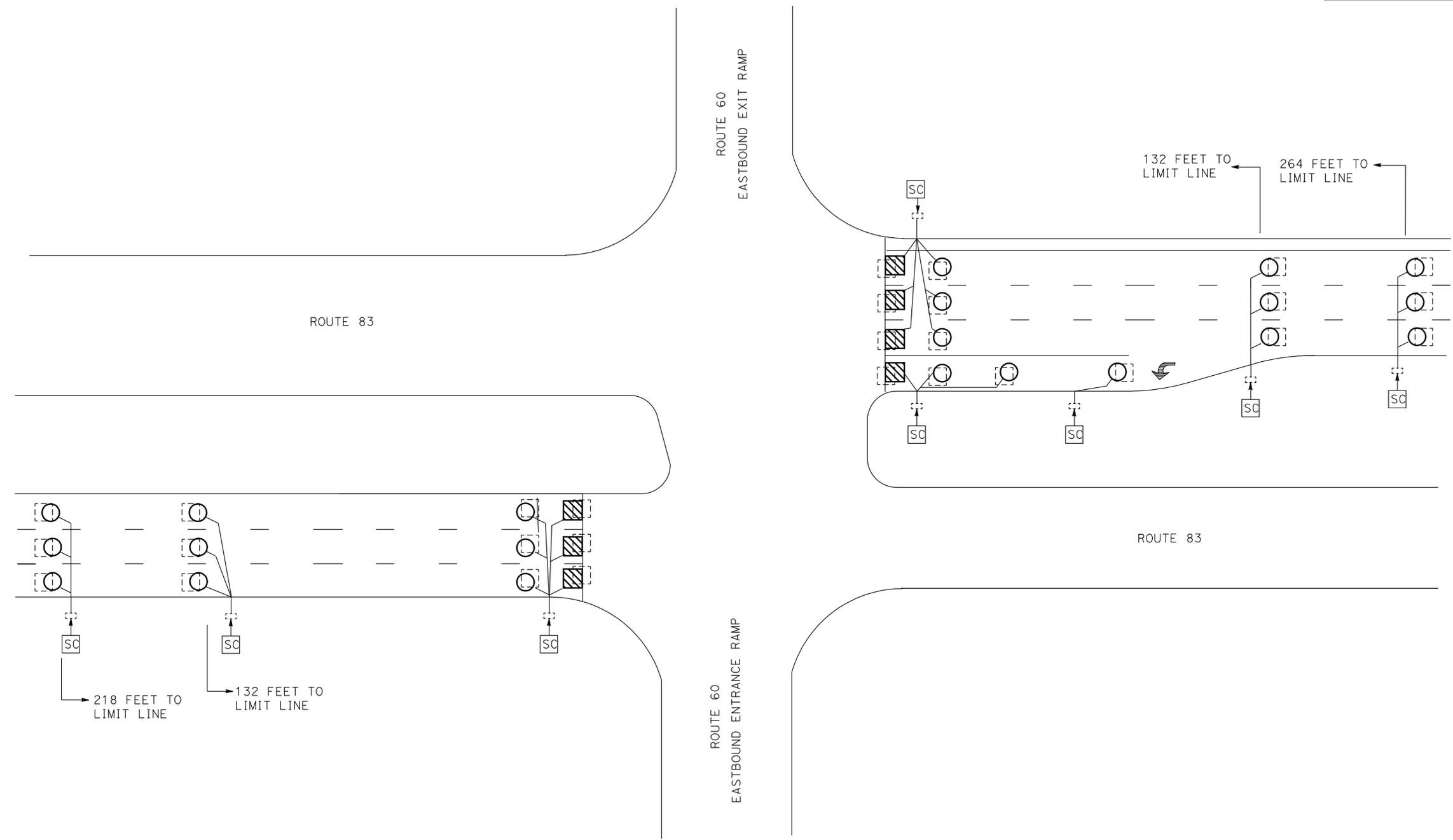
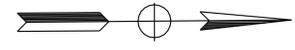
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	0.0/7.2 30.2/33.2	22	34

11-26-12  
 REGISTERED ELECTRICAL ENGINEER DATE

12-24-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 FERDINAND DE LA CRUZ  
 No. E17215  
 Exp 6-30-12  
 ELECTRICAL  
 STATE OF CALIFORNIA

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**LOCATION 7**  
 PM 7.13  
 EXISTING TRAFFIC SIGNAL

**INDUCTIVE LOOP DETECTOR**  
 NO SCALE  
**E-6**

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SANDY TUNG  
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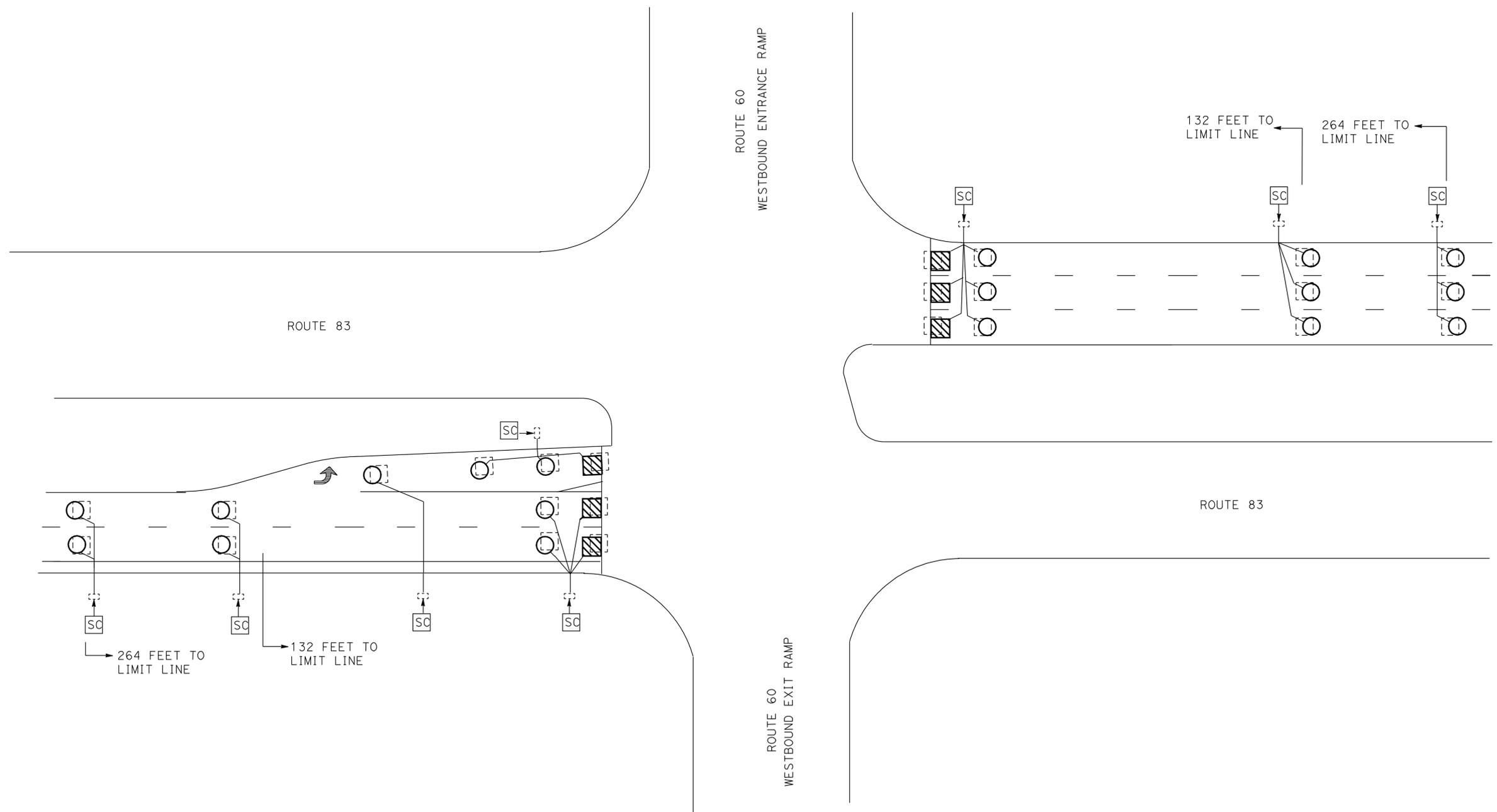
REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	0.0/7.2 30.2/33.2	23	34

11-26-12  
 REGISTERED ELECTRICAL ENGINEER DATE  
 12-24-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 FERDINAND DE LA CRUZ  
 No. E17215  
 Exp 6-30-12  
 ELECTRICAL  
 STATE OF CALIFORNIA

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**LOCATION 8**  
 PM 7.23  
 EXISTING TRAFFIC SIGNAL

**INDUCTIVE LOOP DETECTOR**

NO SCALE

**E-7**

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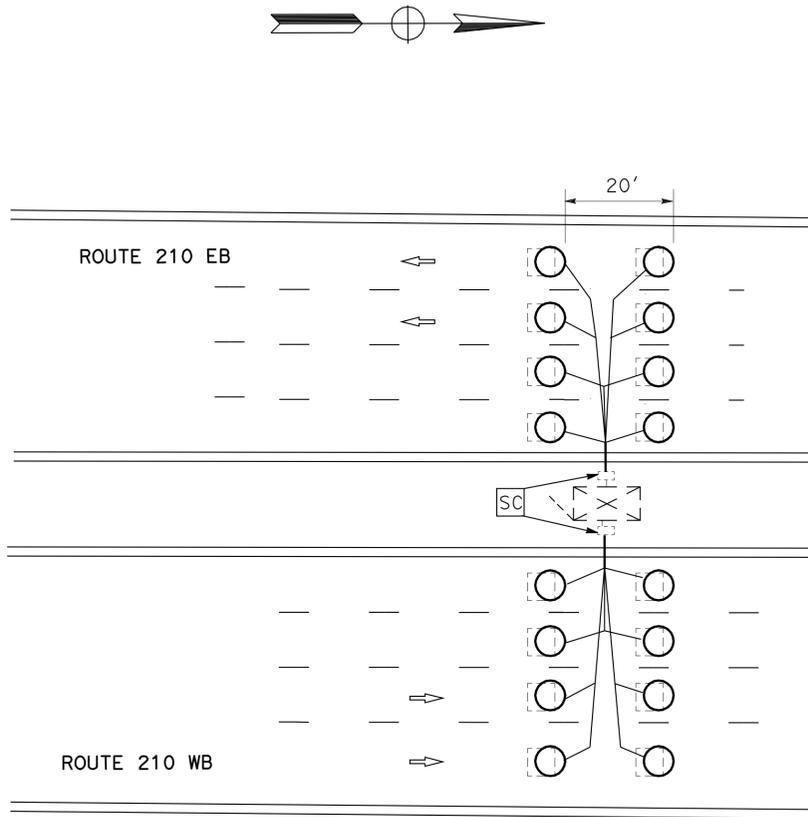
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83 210	0.0/7.2 30.2/33.2	24	34

11-26-12  
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 12-24-12  
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REGISTERED PROFESSIONAL ENGINEER  
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 No. E17215  
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<b>Caltrans</b> ELECTRICAL DESIGN B	FERDINAND DE LA CRUZ	CHECKED BY	SANDY TUNG	
	FERDINAND DE LA CRUZ		FERDINAND DE LA CRUZ	



**LOCATION 9**  
 COUNT STATION  
 ROUTE 210, PM R33.2  
 WEST OF LUGONIA Ave

**INDUCTIVE LOOP DETECTOR**  
 NO SCALE  
**E-8**

APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	83	R0.0/7.2 R30.2/R33.2	25	34

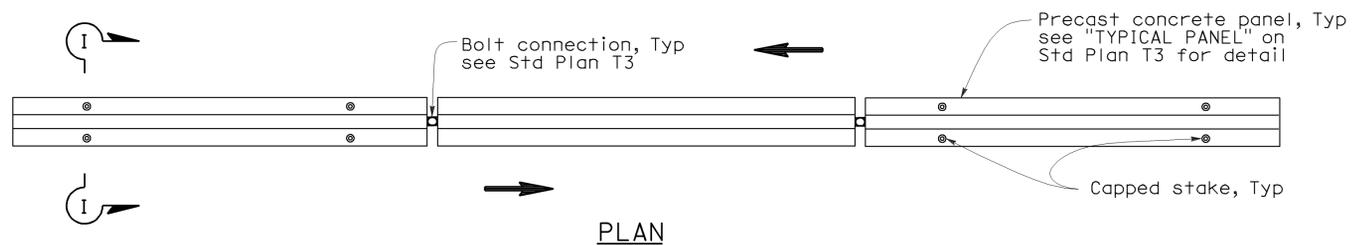
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

May 20, 2011  
PLANS APPROVAL DATE

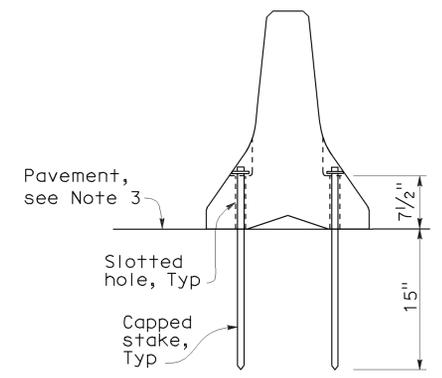
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*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-11  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 12-24-12



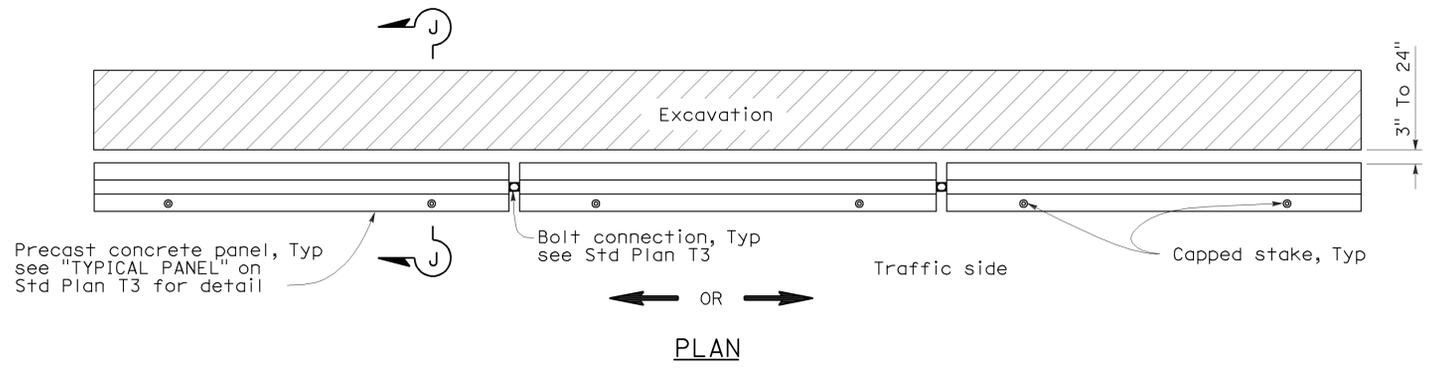
**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1



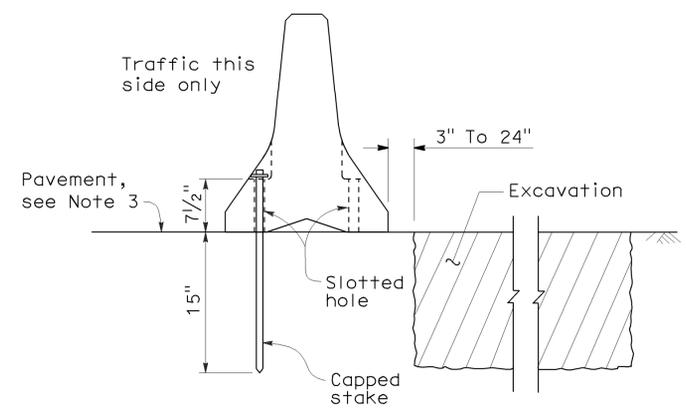
**SECTION I-I**

**NOTES:**

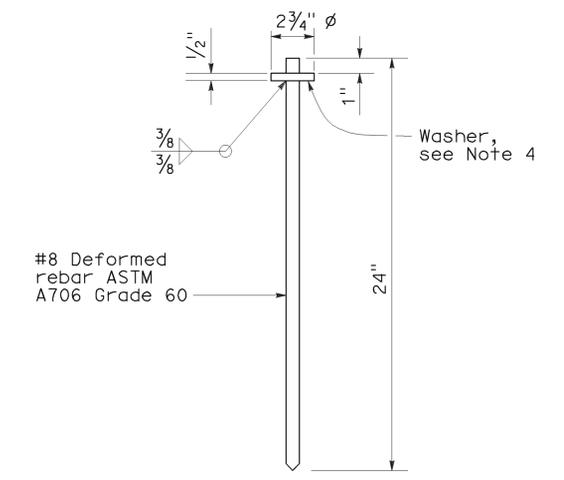
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of 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 pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by →.



**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.

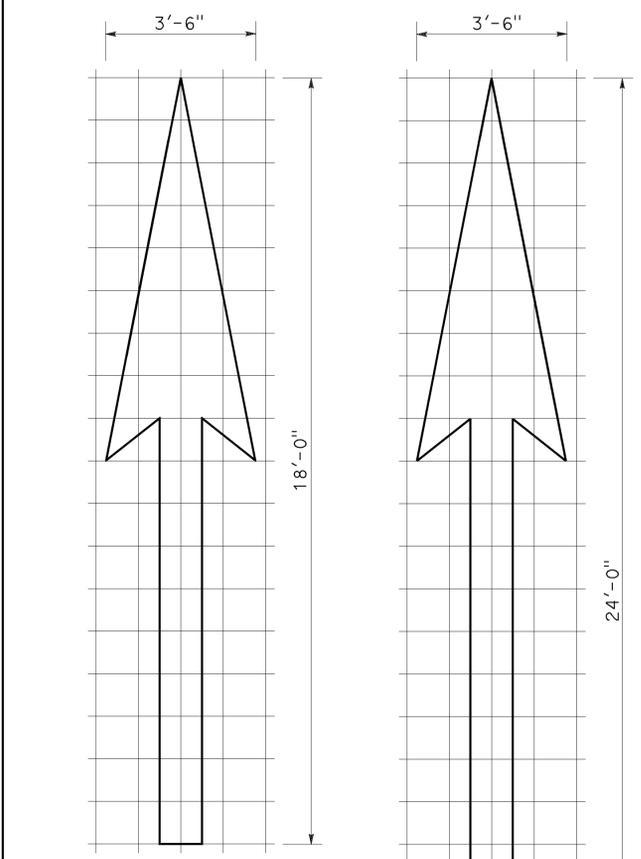
**2006 NEW STANDARD PLAN NSP T3A**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	26	34

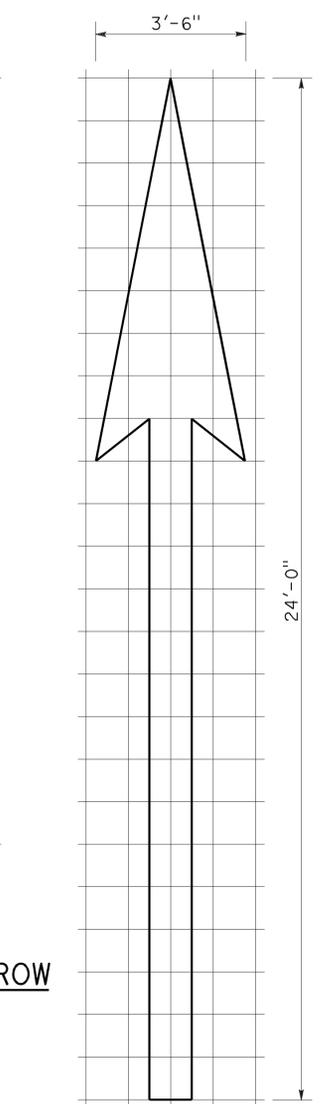
Registered Professional Engineer  
 Roberta L. McLaughlin  
 No. C40375  
 Exp. 3-31-13  
 CIVIL  
 STATE OF CALIFORNIA

April 20, 2012  
 PLANS APPROVAL DATE  
 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.

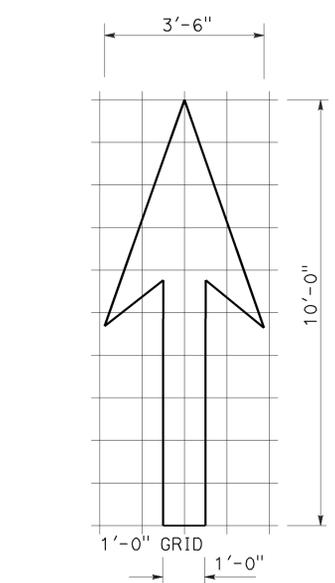
To accompany plans dated 12-24-12



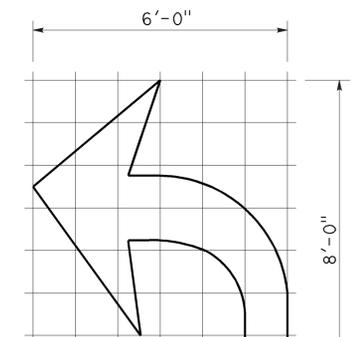
**TYPE I 18'-0" ARROW**



**TYPE I 24'-0" ARROW**



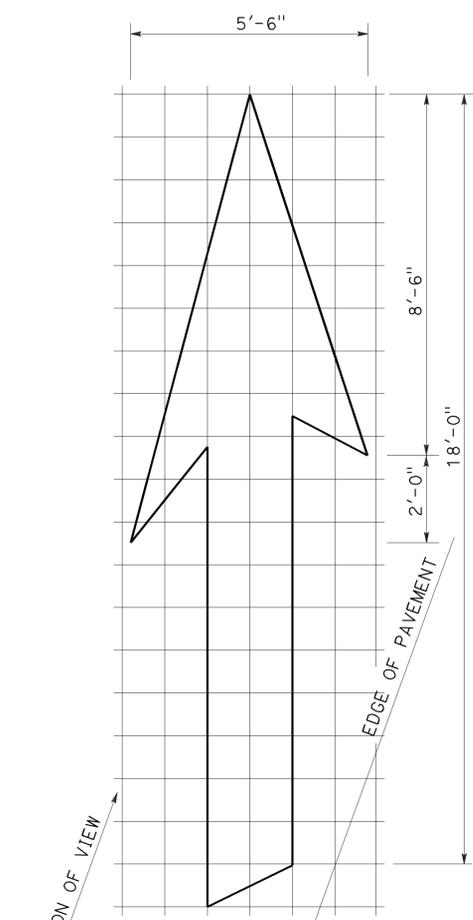
**TYPE I 10'-0" ARROW**



**TYPE IV (L) ARROW**

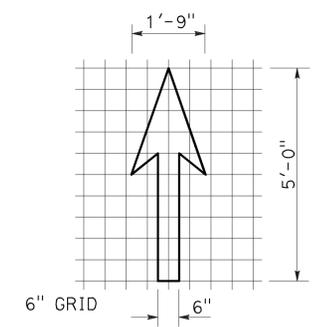
(FOR TYPE IV (R) ARROW, USE MIRROR IMAGE)

**NOTE:**  
MINOR VARIATIONS IN DIMENSIONS  
MAY BE ACCEPTED BY THE ENGINEER.

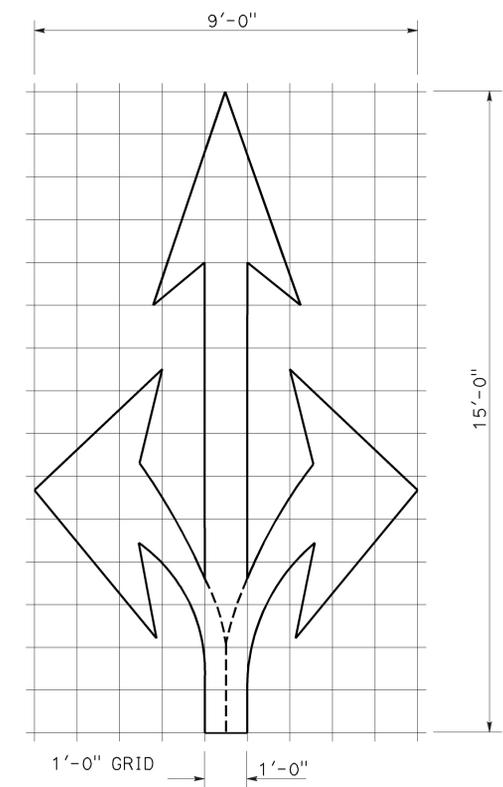


**TYPE VI ARROW**

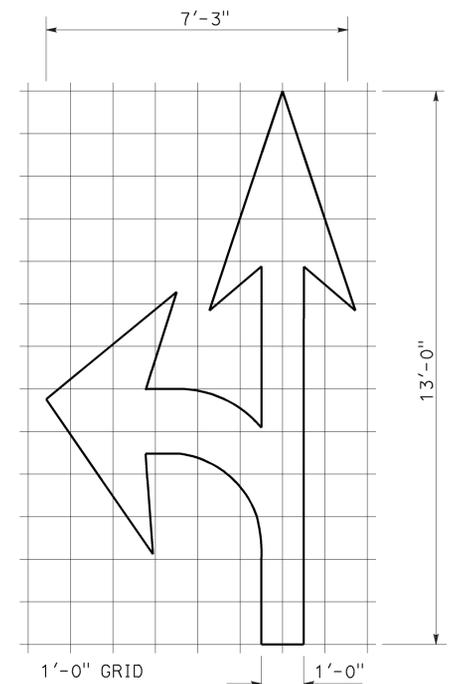
RIGHT LANE DROP ARROW  
(FOR LEFT LANE, USE MIRROR IMAGE)



**BIKE LANE ARROW**

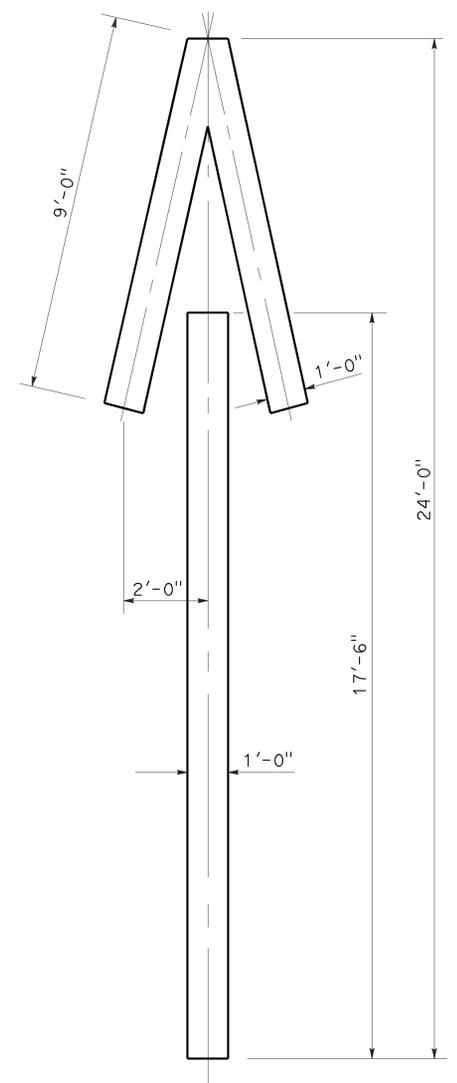


**TYPE VIII ARROW**



**TYPE VII (L) ARROW**

(FOR TYPE VII (R) ARROW, USE MIRROR IMAGE)



**TYPE V ARROW**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS  
ARROWS**

NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A  
DATED MAY 1, 2006 - PAGE 9 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP A24A**

2006 REVISED STANDARD PLAN RSP A24A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	27	34

*Roberta L. McLaughlin*  
 REGISTERED CIVIL ENGINEER

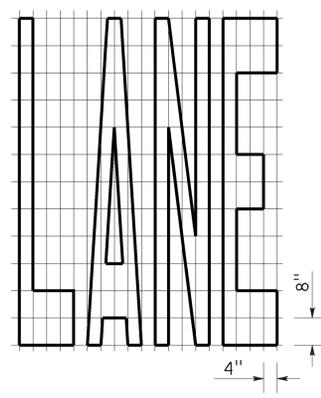
July 20, 2012  
 PLANS APPROVAL DATE

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.

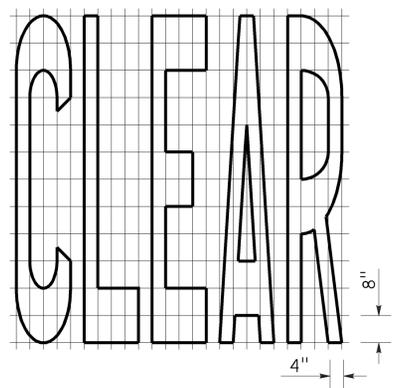
REGISTERED PROFESSIONAL ENGINEER  
 No. C40375  
 Exp. 3-31-13  
 CIVIL  
 STATE OF CALIFORNIA

To accompany plans dated 12-24-12

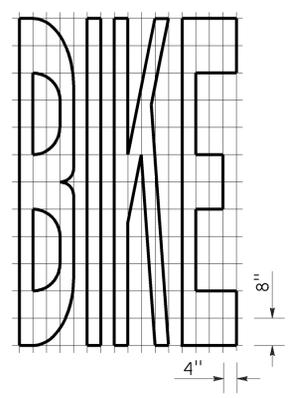
2006 REVISED STANDARD PLAN RSP A24E



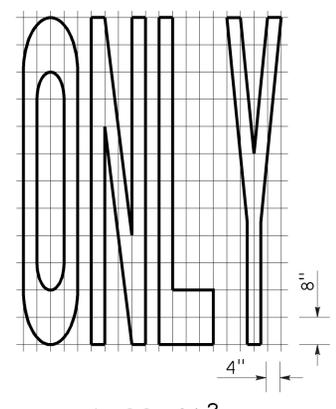
A=24 ft<sup>2</sup>



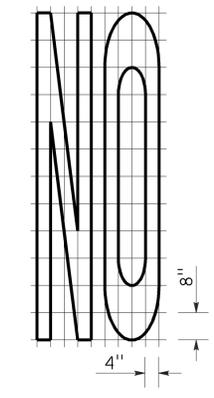
A=27 ft<sup>2</sup>



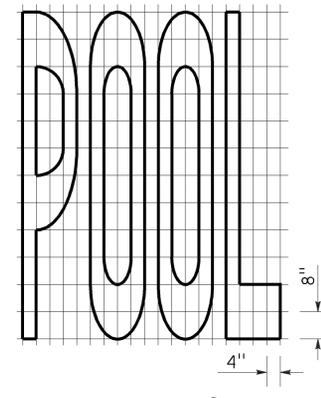
A=21 ft<sup>2</sup>



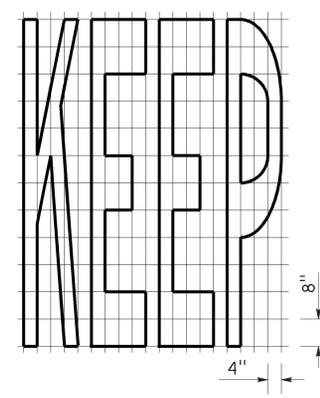
A=22 ft<sup>2</sup>



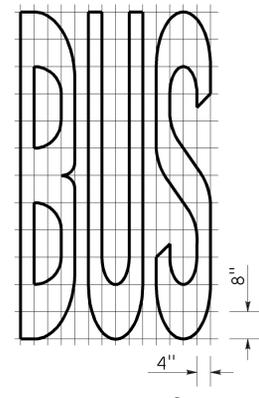
A=14 ft<sup>2</sup>



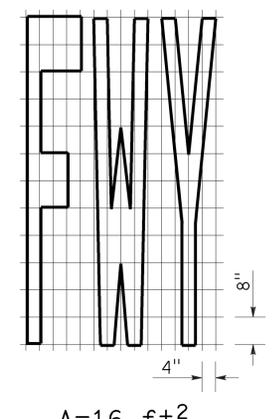
A=23 ft<sup>2</sup>



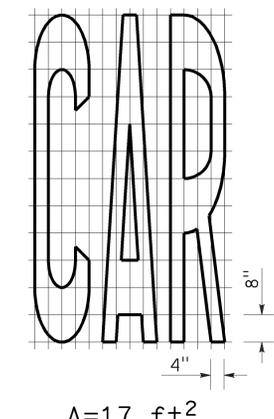
A=24 ft<sup>2</sup>



A=20 ft<sup>2</sup>

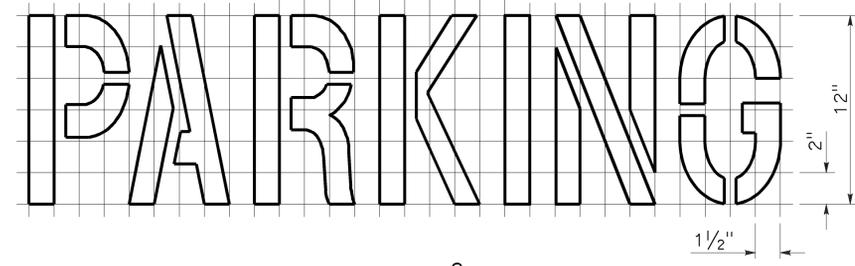
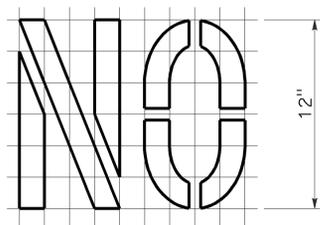


A=16 ft<sup>2</sup>

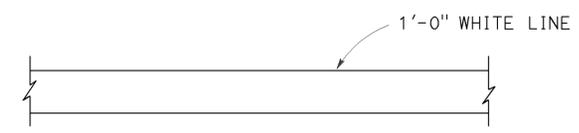


A=17 ft<sup>2</sup>

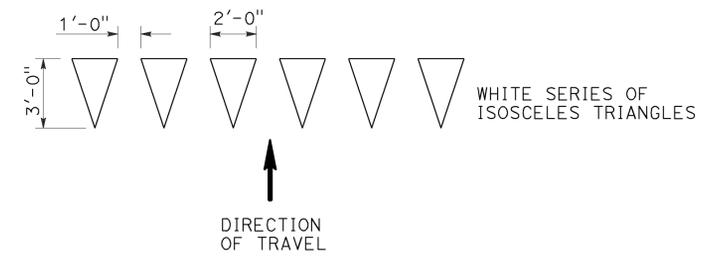
WORD MARKINGS			
ITEM	ft <sup>2</sup>	ITEM	ft <sup>2</sup>
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft<sup>2</sup>  
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS  
WORDS, LIMIT AND YIELD LINES**

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E  
DATED MAY 1, 2006 - PAGE 13 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP A24E**

## ELECTROLIERS

STANDARD TYPES	High mast light pole
15, 15D	
15 STRUCTURE	
21, 21D STRUCTURE	
30	
31	
32	
35	
36-20A	

**NOTES:**

- 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.
- Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.
- 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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	28	34

*Jeffrey G. McRae*  
REGISTERED ELECTRICAL ENGINEER

October 5, 2007  
PLANS APPROVAL DATE

Jeffrey G. McRae  
No. E14512  
Exp. 6-30-08  
REGISTERED PROFESSIONAL ENGINEER  
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 12-24-12

## 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
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	29	34

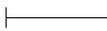
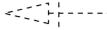
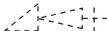
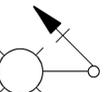
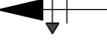
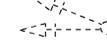
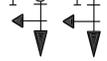
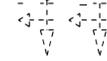
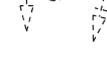
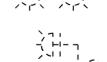
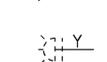
*Jeffery G. McRae*  
 REGISTERED ELECTRICAL ENGINEER  
 October 5, 2007  
 PLANS APPROVAL DATE  
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To accompany plans dated 12-24-12

**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

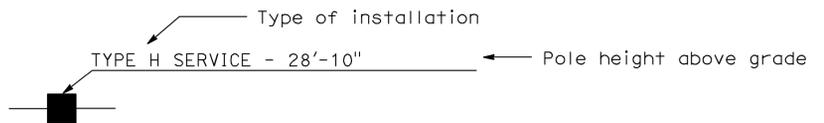
**SIGNAL EQUIPMENT**

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 lowered "LG" indicates lowered 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

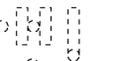
**SERVICE EQUIPMENT**

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:**

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

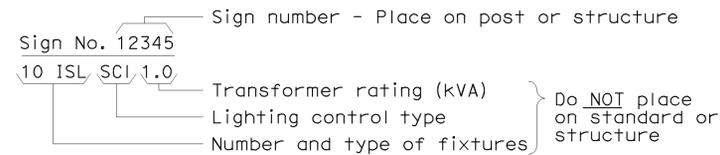
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	30	34

Jeffrey G. McRae  
 REGISTERED ELECTRICAL ENGINEER  
 October 5, 2007  
 PLANS APPROVAL DATE  
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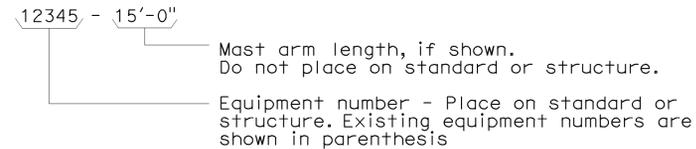
REGISTERED PROFESSIONAL ENGINEER  
 Jeffrey G. McRae  
 No. E14512  
 Exp. 6-30-08  
 ELECTRICAL  
 STATE OF CALIFORNIA

### EQUIPMENT IDENTIFICATION

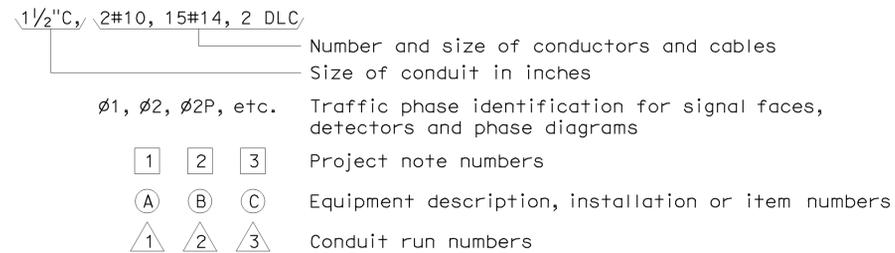
#### ILLUMINATED SIGN IDENTIFICATION NUMBER:



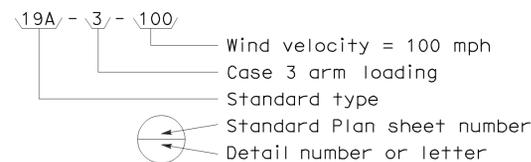
#### ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



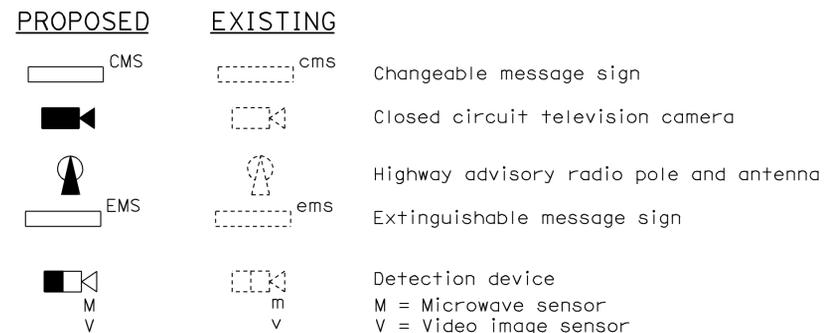
#### CONDUIT AND CONDUCTOR IDENTIFICATION:



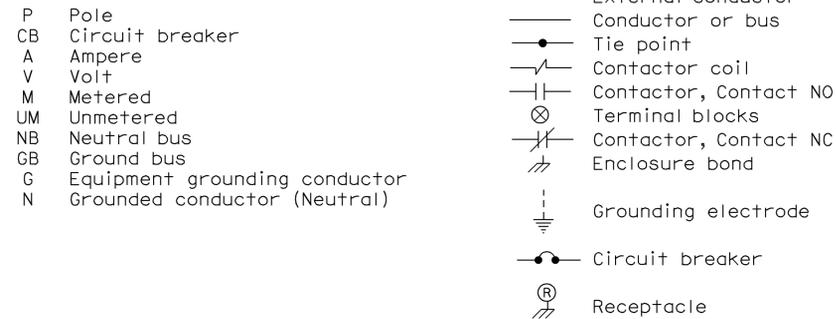
#### SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



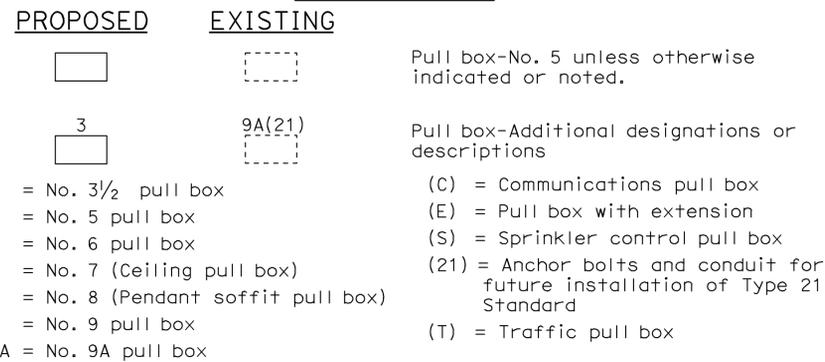
### MISCELLANEOUS EQUIPMENT



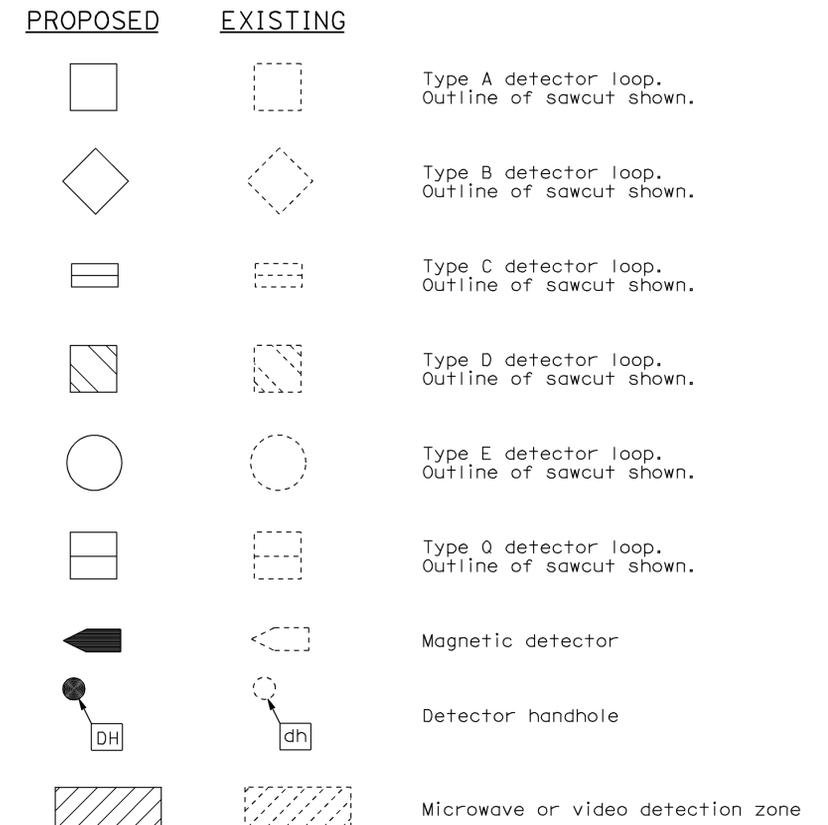
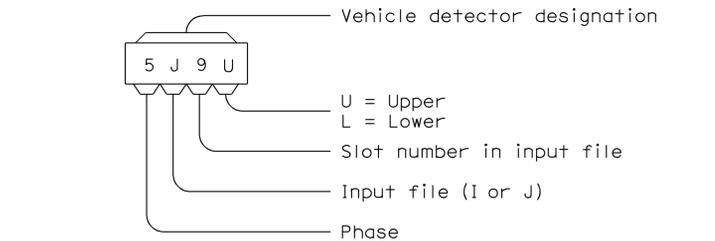
### WIRING DIAGRAM LEGEND



### 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

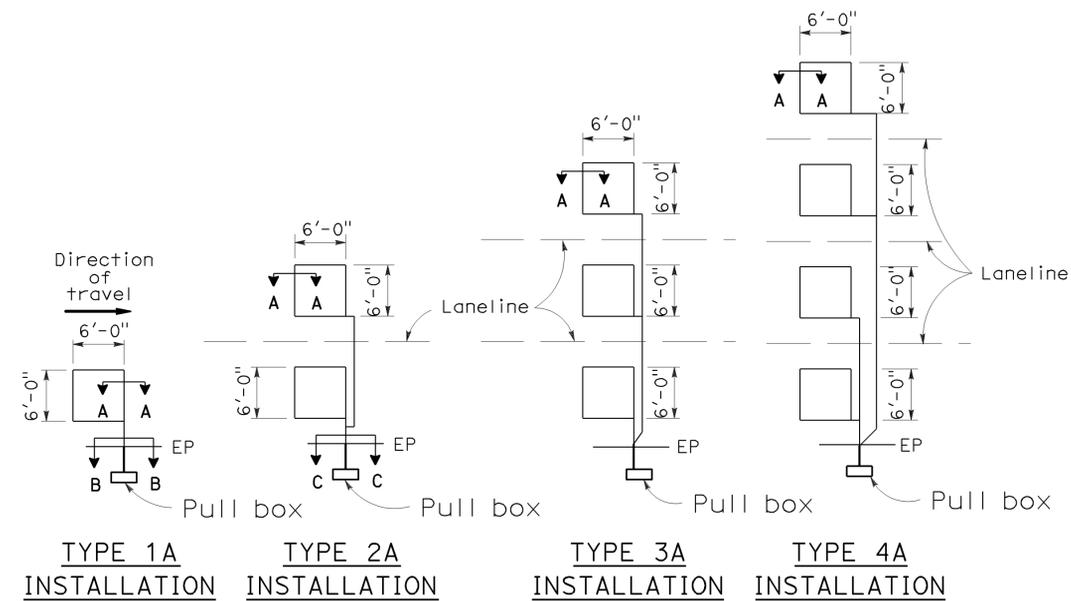
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	31	34

October 5, 2007  
 PLANS APPROVAL DATE  
 To accompany plans dated 12-24-12

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

## 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.

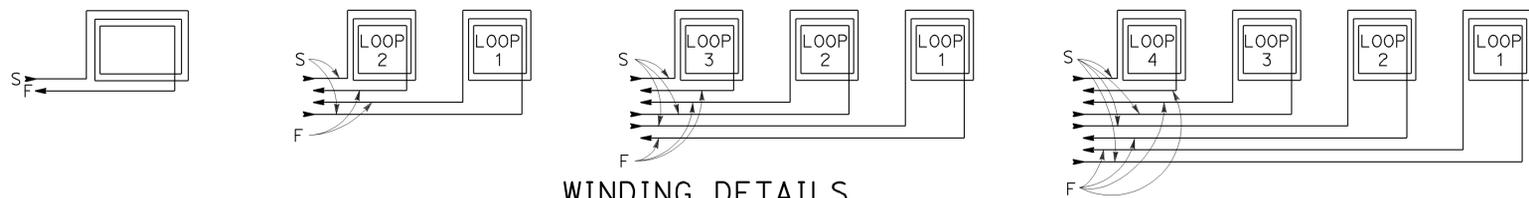


TYPE 1A INSTALLATION    TYPE 2A INSTALLATION    TYPE 3A INSTALLATION    TYPE 4A INSTALLATION

### SAWCUT DETAILS

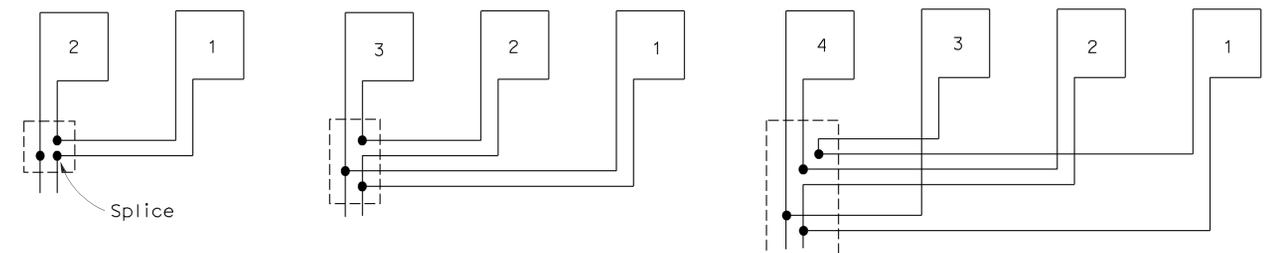
(Type A loop detector configurations illustrated)

- 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)



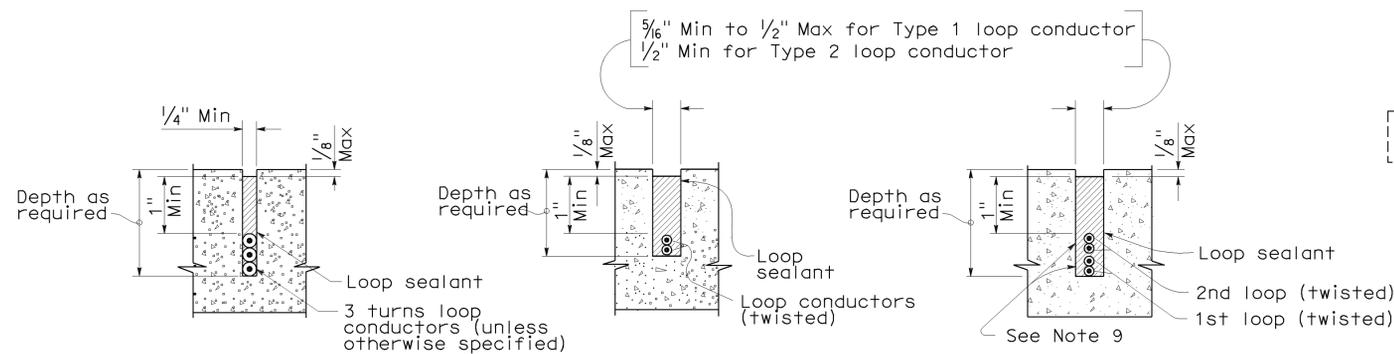
### WINDING DETAILS

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

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	32	34

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

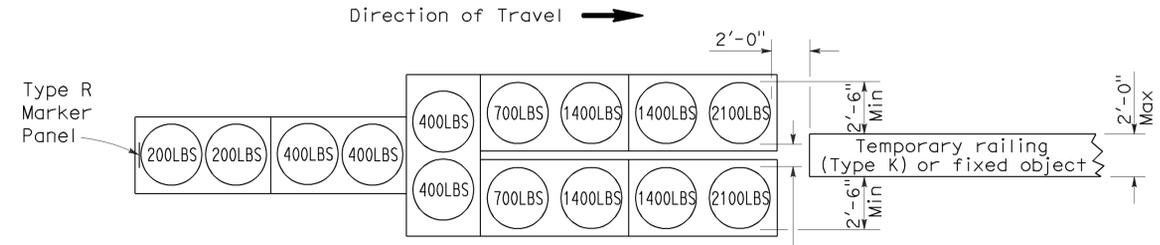
June 6, 2008  
PLANS APPROVAL DATE

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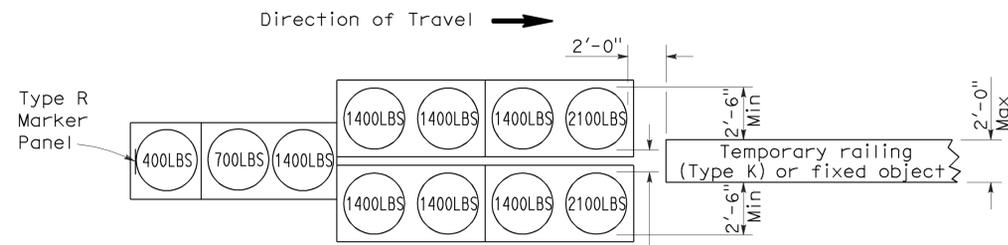
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 12-24-12

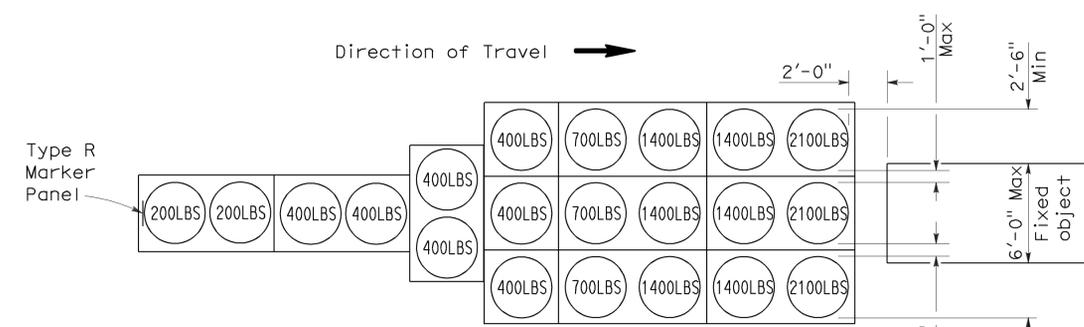
2006 REVISED STANDARD PLAN RSP T1A



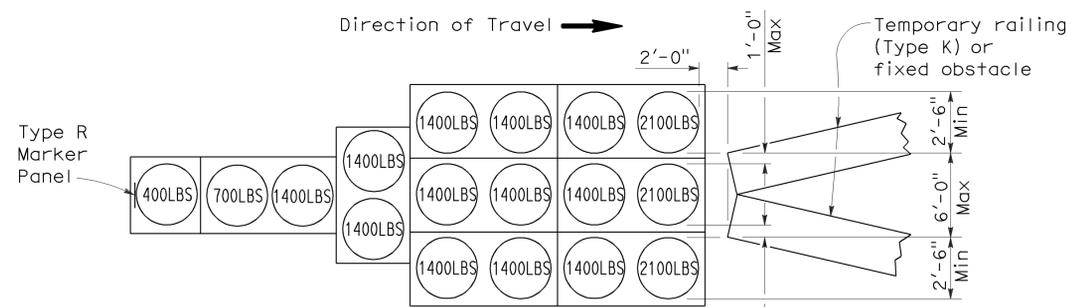
Direction of Travel →  
**ARRAY 'TU14'**  
Approach speed 45 mph or more



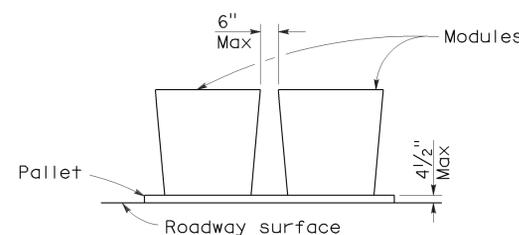
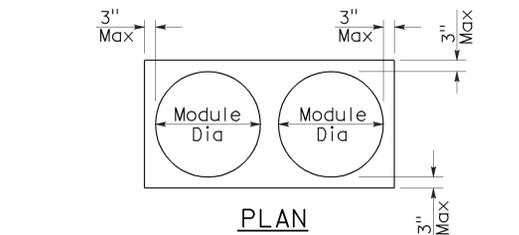
Direction of Travel →  
**ARRAY 'TU11'**  
Approach speed less than 45 mph



Direction of Travel →  
**ARRAY 'TU21'**  
Approach speed 45 mph or more



Direction of Travel →  
**ARRAY 'TU17'**  
Approach speed less than 45 mph



**PLAN**  
**ELEVATION**  
**CRASH CUSHION PALLET DETAIL**  
See Note 7

**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.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Place the top of Type R marker panel 1" below the module lid.
- Refer to Standard Plan A73B for marker details.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- 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**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	33	34

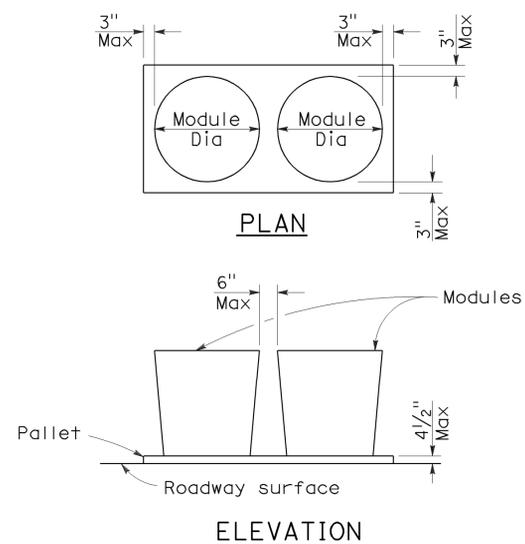
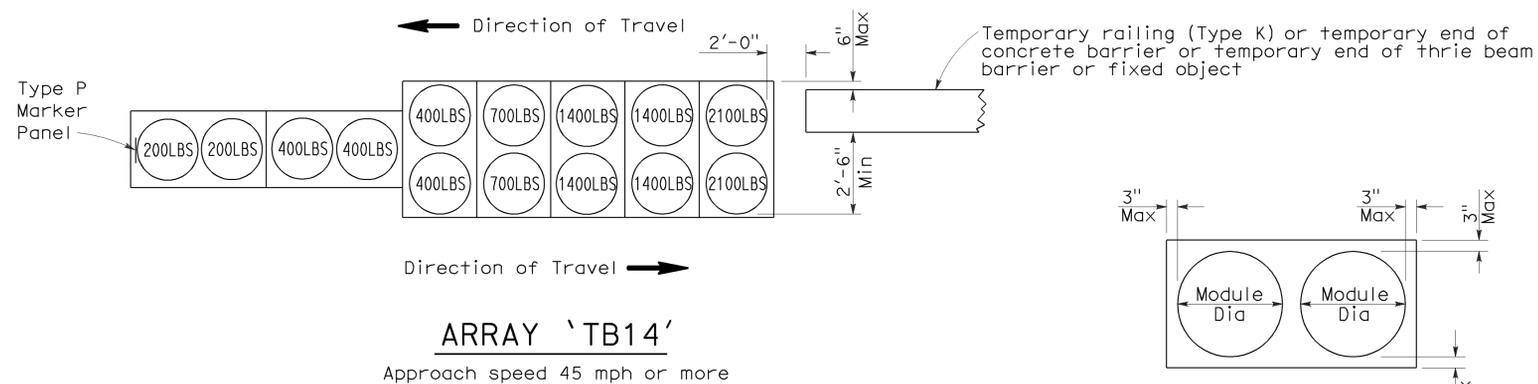
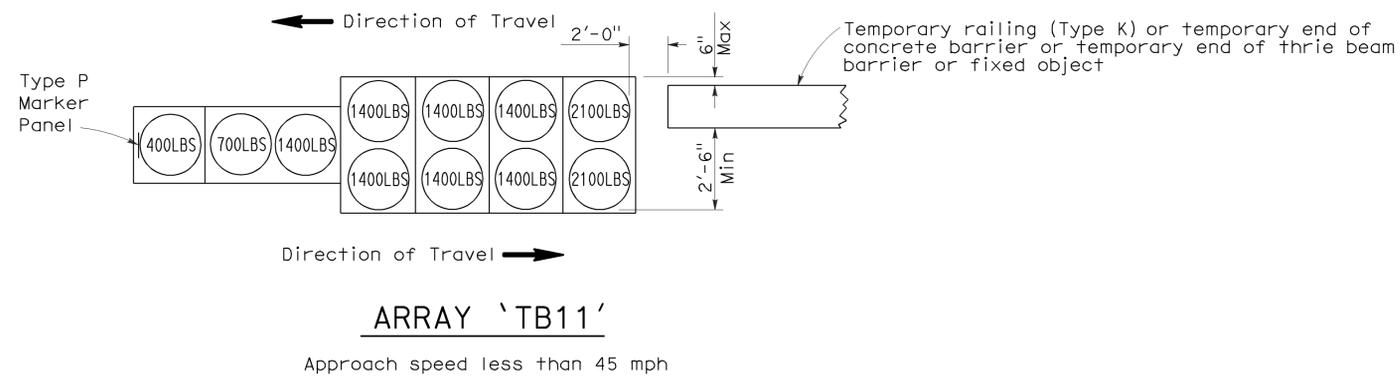
Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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

To accompany plans dated 12-24-12



**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
08	SBd	83 210	R0.0/7.2 R30.2/R33.2	34	34

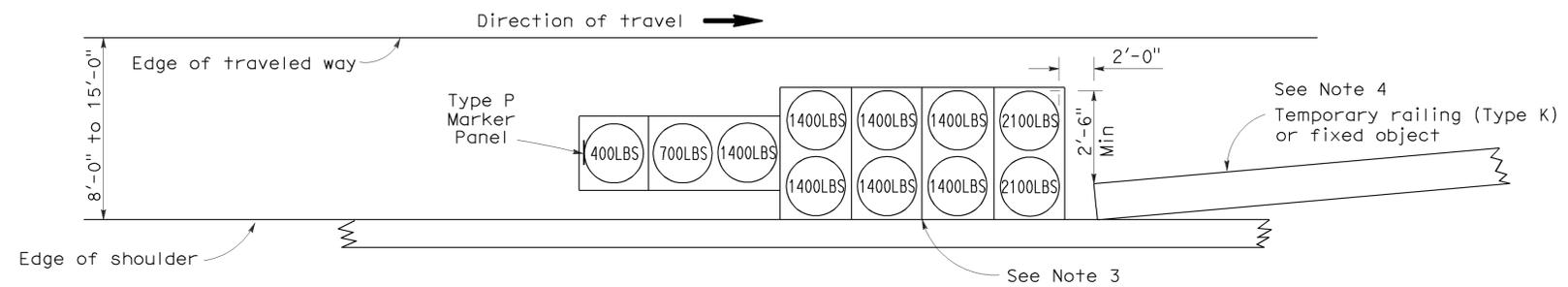
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

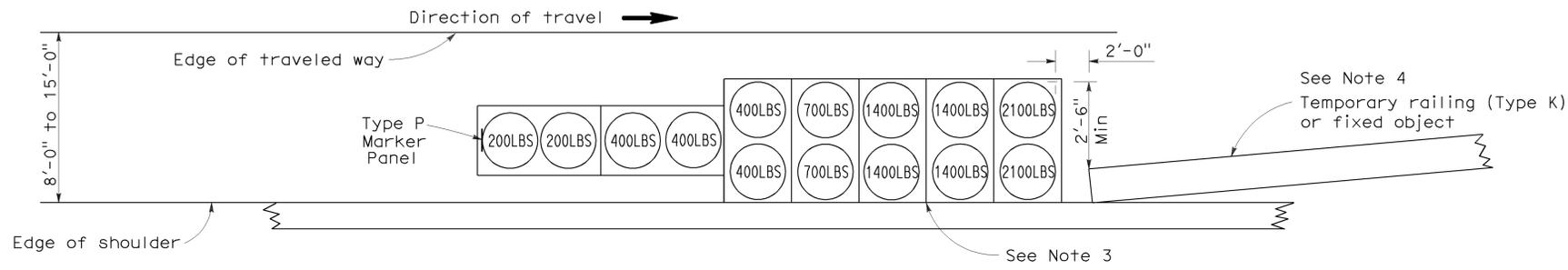
*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

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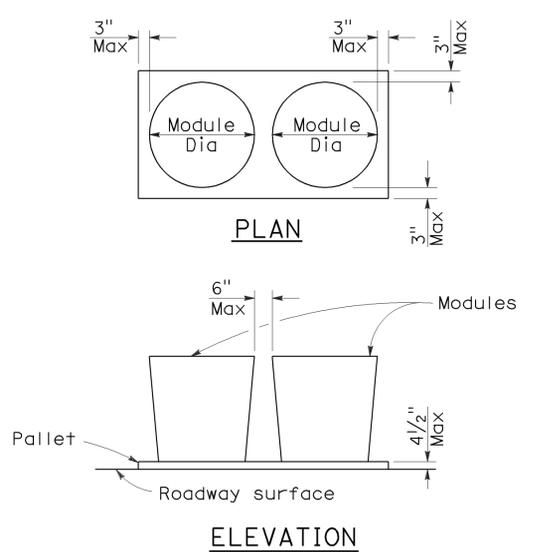
To accompany plans dated 12-24-12



**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:**

- (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.

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