

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-4	LAYOUTS
5	PROFILES AND SUPERELEVATION DIAGRAMS
6-8	CONSTRUCTION DETAILS
9	TEMPORARY WATER POLLUTION CONTROL
10-11	EROSION CONTROL
12	CONSTRUCTION AREA SIGNS
13-20	TRAFFIC HANDLING PLANS AND QUANTITIES
21-28	PAVEMENT DELINEATION AND SIGN PLANS DETAILS AND QUANTITIES
29	SUMMARY OF QUANTITIES
30-33	ELECTRICAL PLANS
34-43	NEW AND REVISED STANDARD PLANS

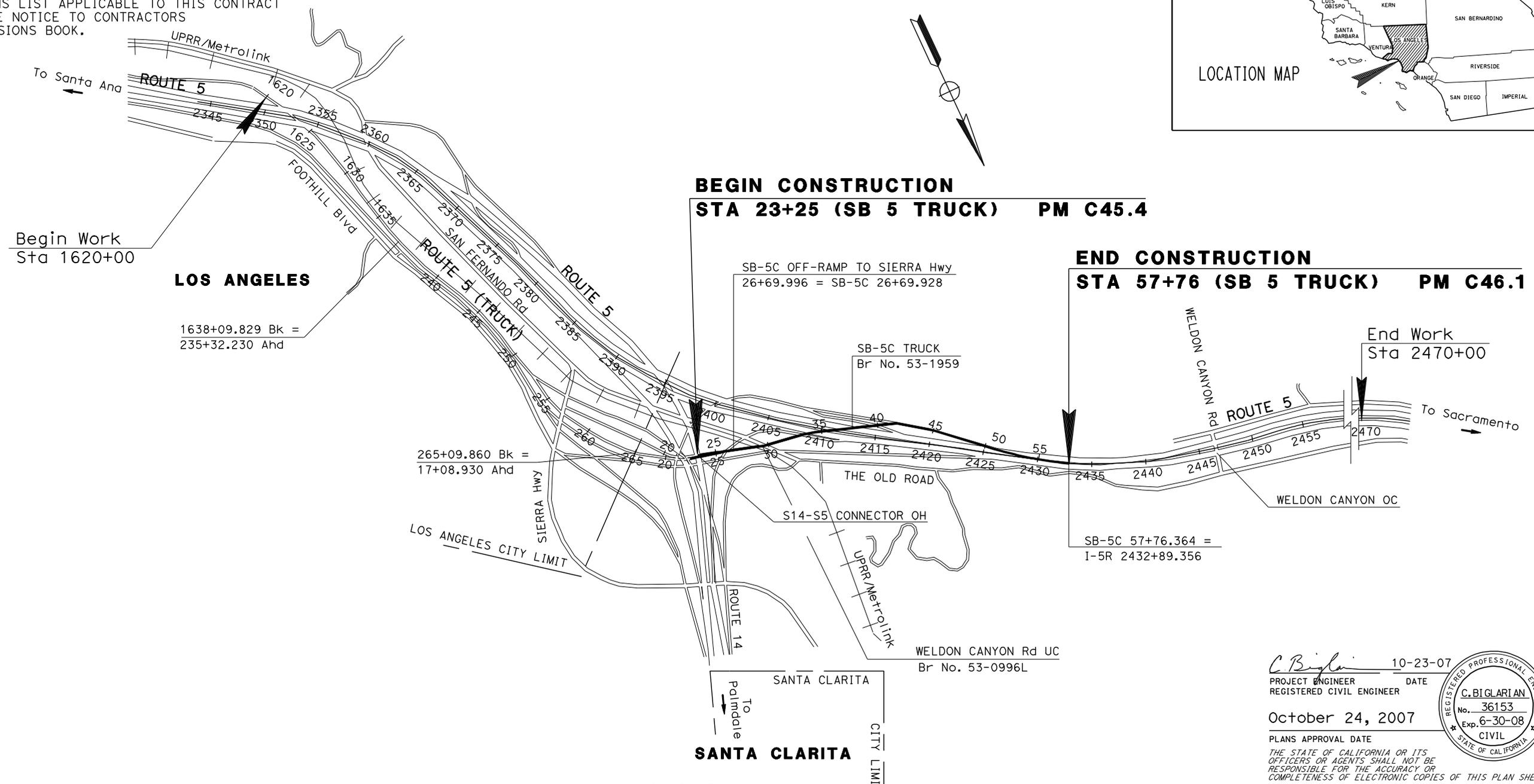
STRUCTURE PLANS	
44-61	TRUCK ROUTE UNDERCROSSING (REPAIR) Br No. 53-1959

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

**STATE OF CALIFORNIA**  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN LOS ANGELES COUNTY**  
**NEAR LOS ANGELES FROM**  
**SOUTH 14 TO SOUTH 5 CONNECTOR OVERHEAD**  
**TO 0.4 MILE SOUTH OF WELDON CANYON OVERCROSSING**

**ACSTP-43Y1(001)E**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER  
**OSAMA MEGALLA**

DESIGN ENGINEER  
**CRICORIS BIGLIARIAN**

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

NO SCALE

*C. Bigliarian* 10-23-07  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER  
October 24, 2007  
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.



CONTRACT No. **07-1X8404**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	2	61

C. Biglar		10-23-07
REGISTERED CIVIL ENGINEER DATE		
10-24-07		
PLANS APPROVAL DATE		

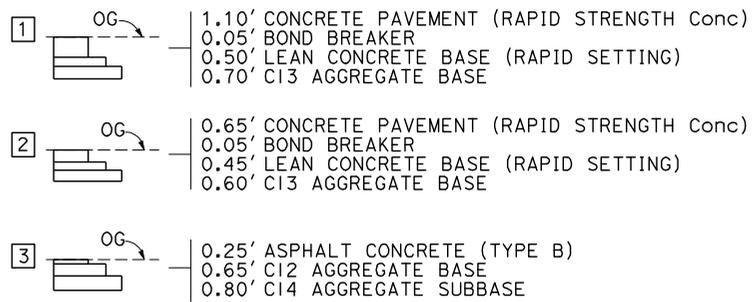
REGISTERED PROFESSIONAL ENGINEER
C. BIGLARIAN
No. 36153
Exp 6-30-08
CIVIL
STATE OF CALIFORNIA

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.

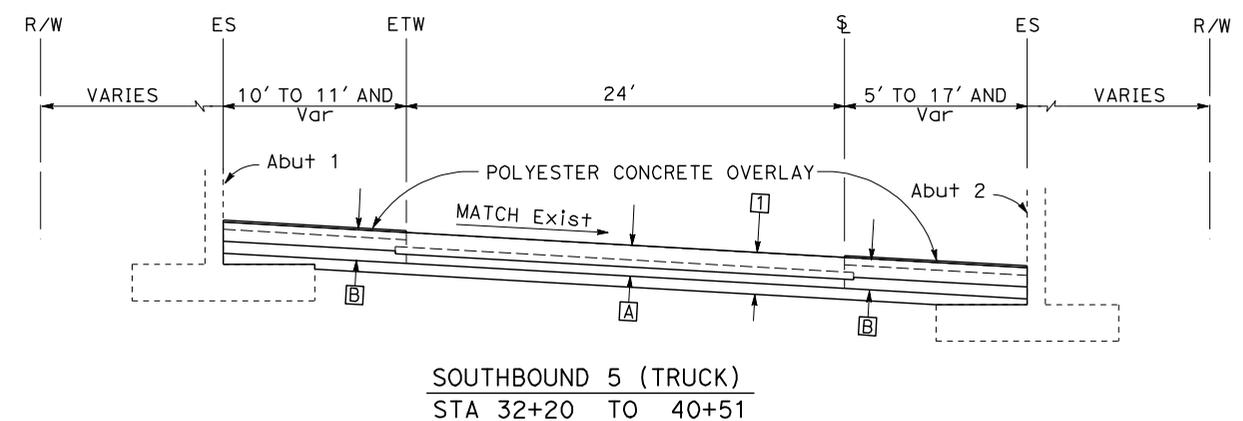
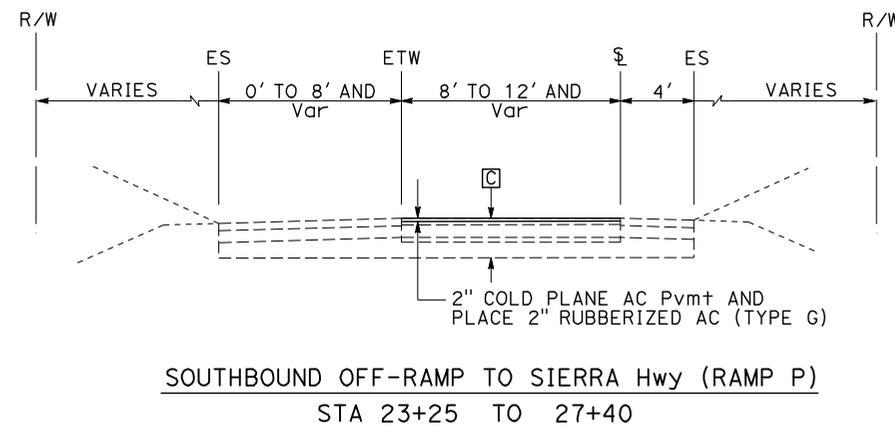
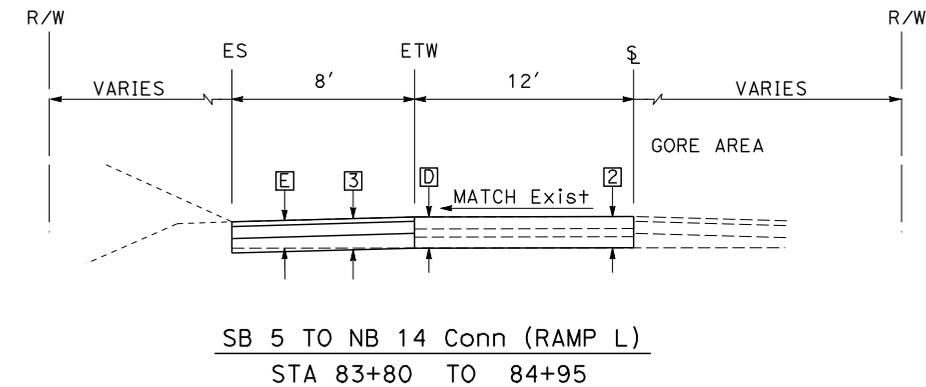
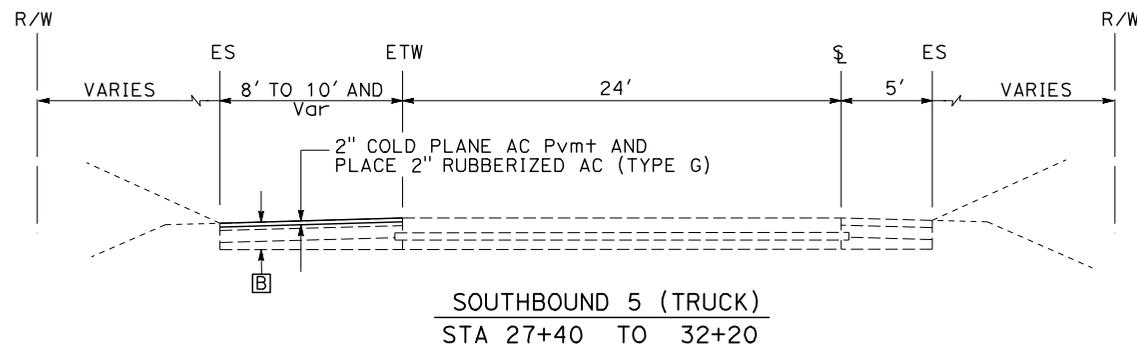
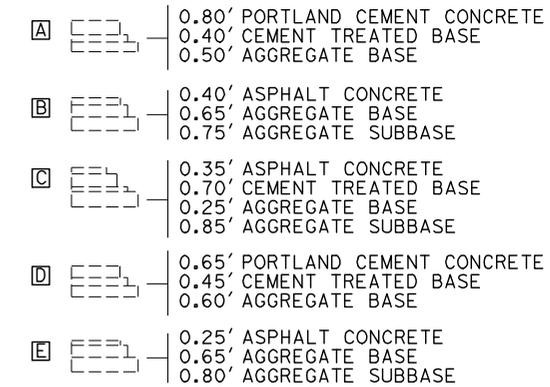
**NOTES:**

- DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.

**TYPICAL STRUCTURAL SECTION**



**EXISTING STRUCTURAL SECTION**



**TYPICAL CROSS SECTIONS**  
NO SCALE

X-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	3	61

C. Biglar 10-23-07  
 REGISTERED CIVIL ENGINEER DATE  
 10-24-07  
 PLANS APPROVAL DATE  
 No. 36153  
 Exp 6-30-08  
 CIVIL  
 STATE OF CALIFORNIA

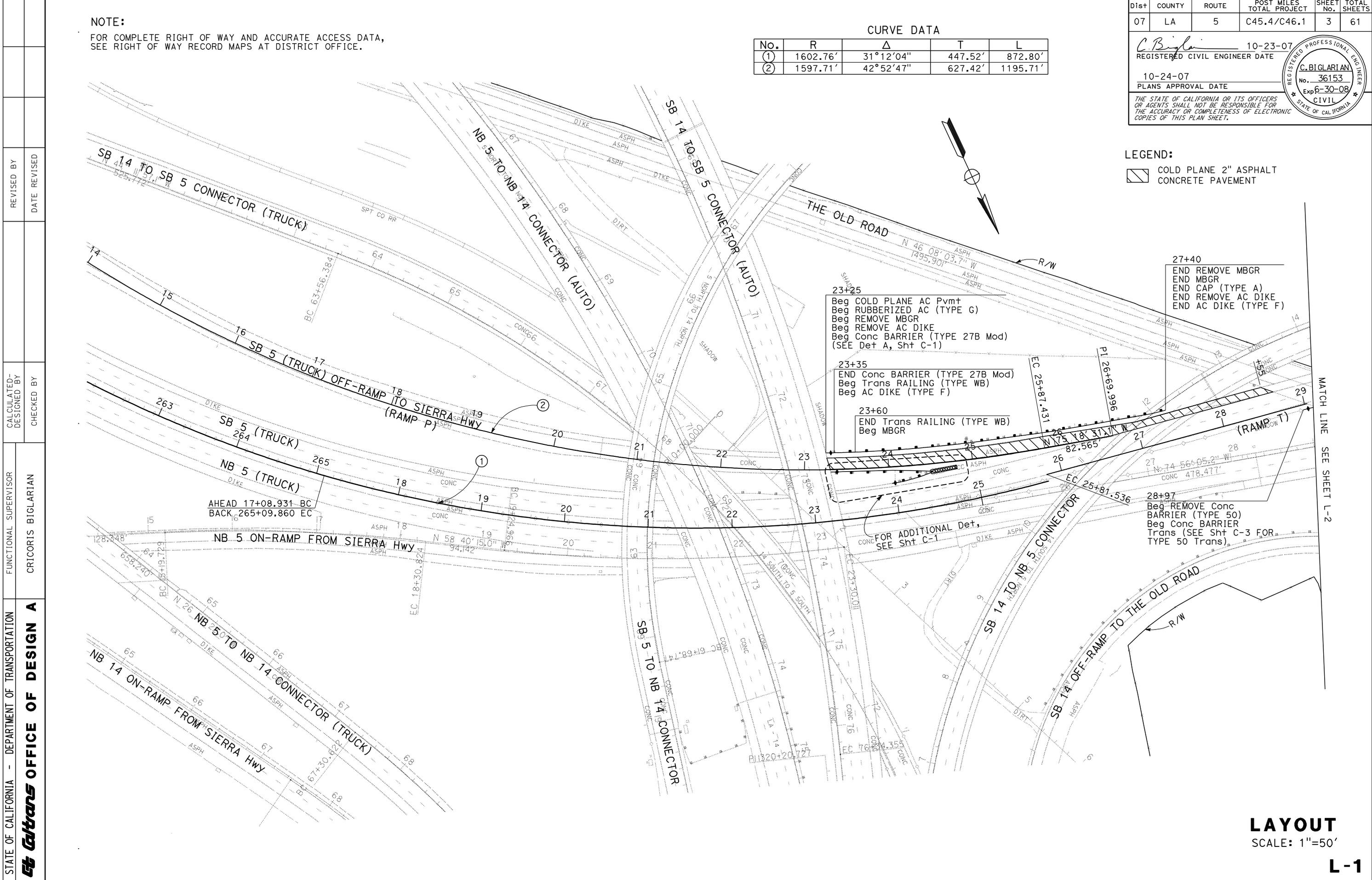
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

**NOTE:**  
 FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

**CURVE DATA**

No.	R	Δ	T	L
①	1602.76'	31°12'04"	447.52'	872.80'
②	1597.71'	42°52'47"	627.42'	1195.71'

**LEGEND:**  
 COLD PLANE 2" ASPHALT  
 CONCRETE PAVEMENT



REVISIONS:  
 REVISED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CALCULATED/DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 FUNCTIONAL SUPERVISOR: CRICORIS BIGLIARIAN  
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**TRANS OFFICE OF DESIGN A**

MATCH LINE SEE SHEET L-2

**LAYOUT**  
 SCALE: 1"=50'  
**L-1**

**NOTE:**

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,  
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	4	61

*C. Biglar* 10-23-07  
REGISTERED CIVIL ENGINEER DATE

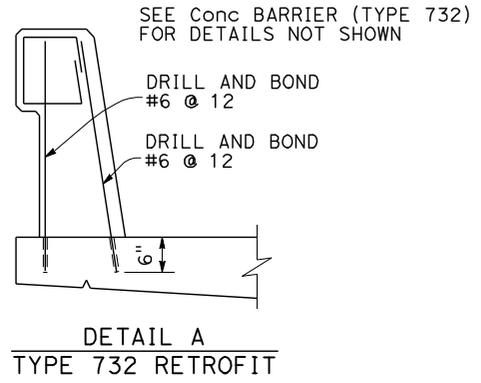
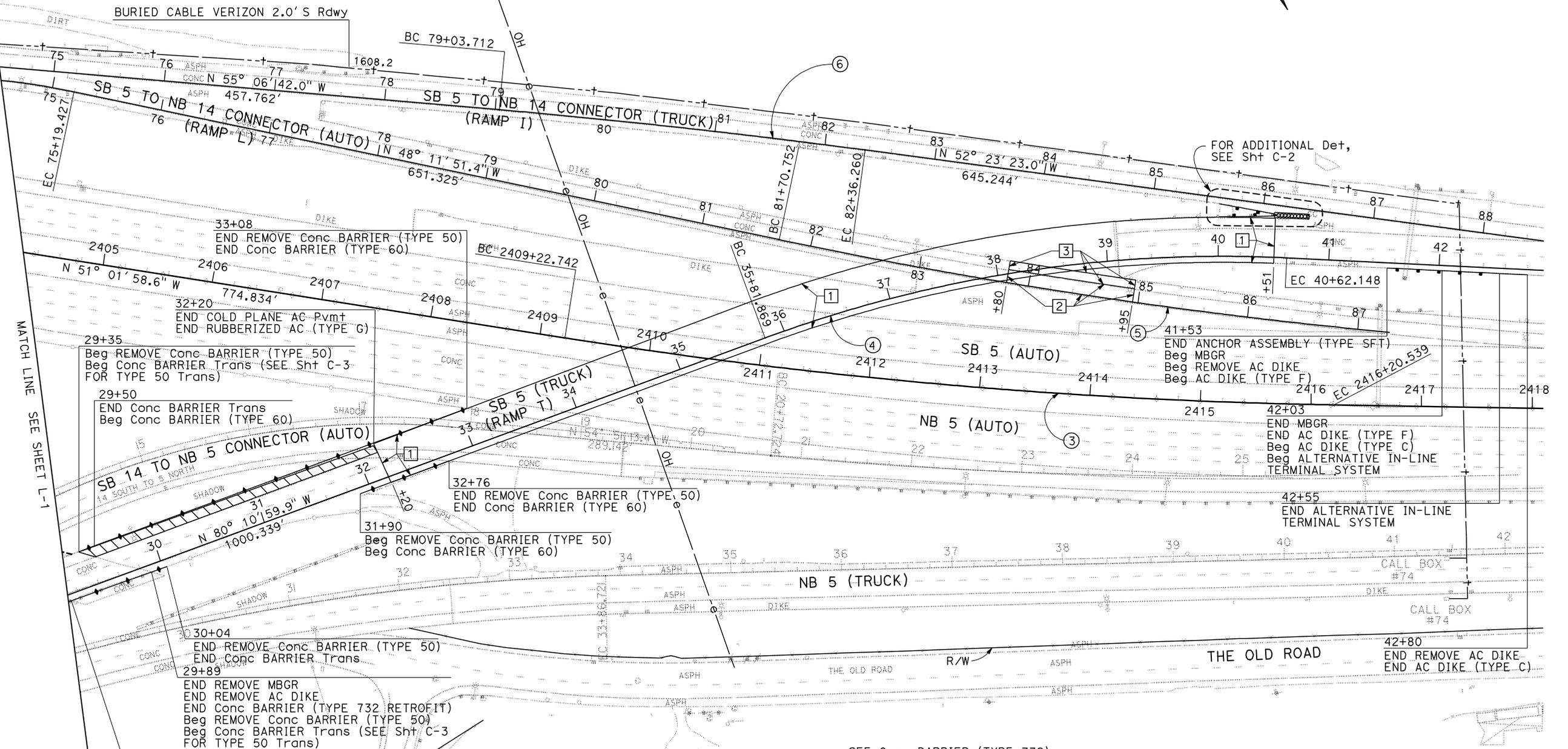
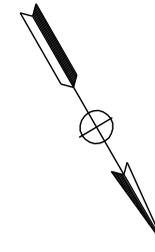
10-24-07  
PLANS APPROVAL DATE

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.

**C. BIGLARIAN**  
REGISTERED PROFESSIONAL ENGINEER  
No. 36153  
Exp 6-30-08  
CIVIL  
STATE OF CALIFORNIA

**CURVE DATA**

No.	R	Δ	T	L
③	5023.93'	7°57'34"	349.52'	697.92'
④	1200.00	22°55'54"	243.40'	480.28'
⑤	4892.16'	6°5'31"	260.32'	520.15'
⑥	7460.73'	2°33'10"	166.24'	332.42'



**LAYOUT**  
SCALE: 1"=50'

**L-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** OFFICE OF DESIGN A

FUNCTIONAL SUPERVISOR  
CRICORIS BIGLARIAN

CALCULATED-DESIGNED BY  
CHECKED BY

REVISED BY  
DATE REVISED

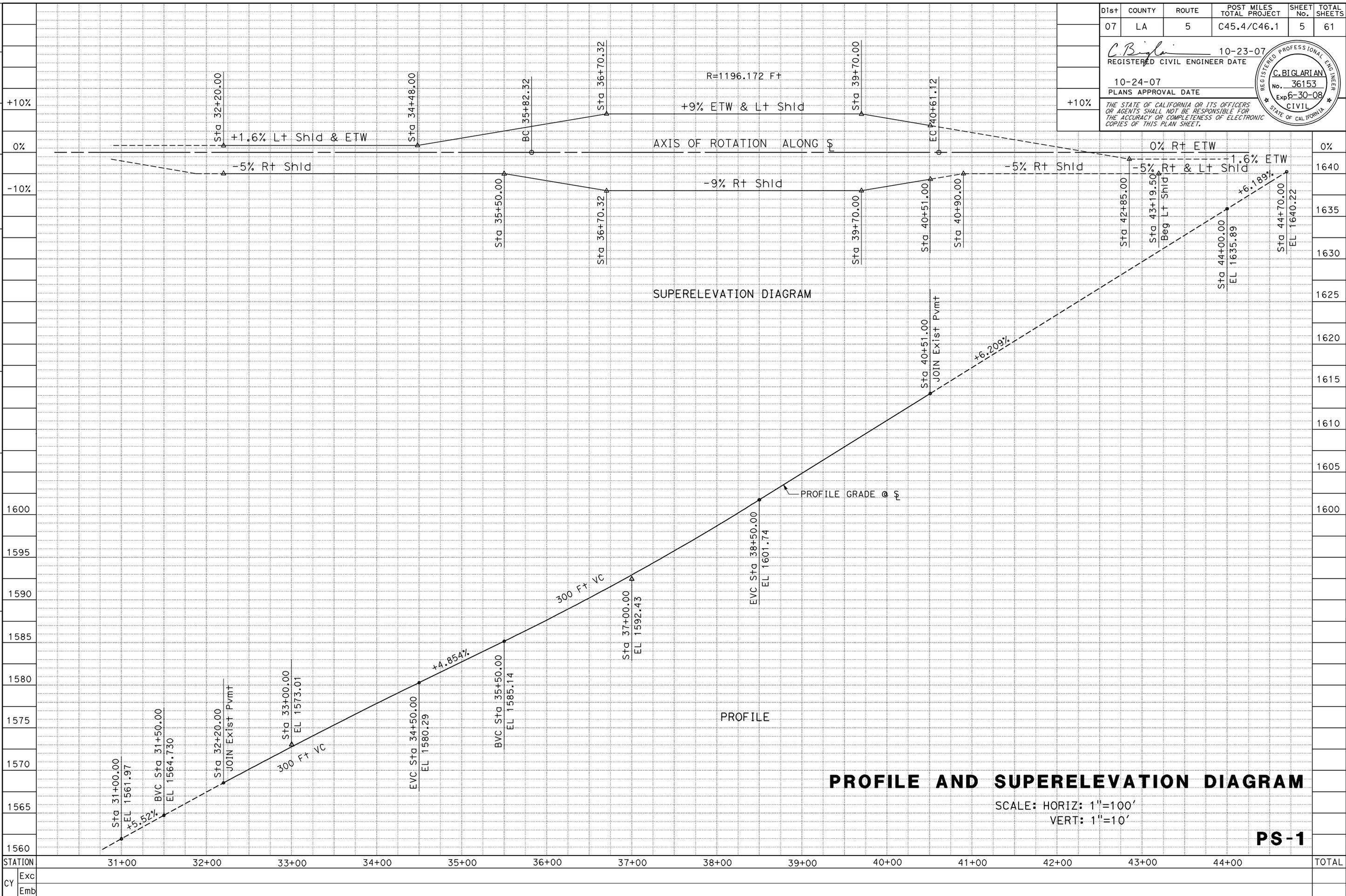
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	5	61

C. Bigliarian 10-23-07  
 REGISTERED CIVIL ENGINEER DATE

10-24-07  
 PLANS APPROVAL DATE

No. 36153  
 Exp 6-30-08  
 CIVIL

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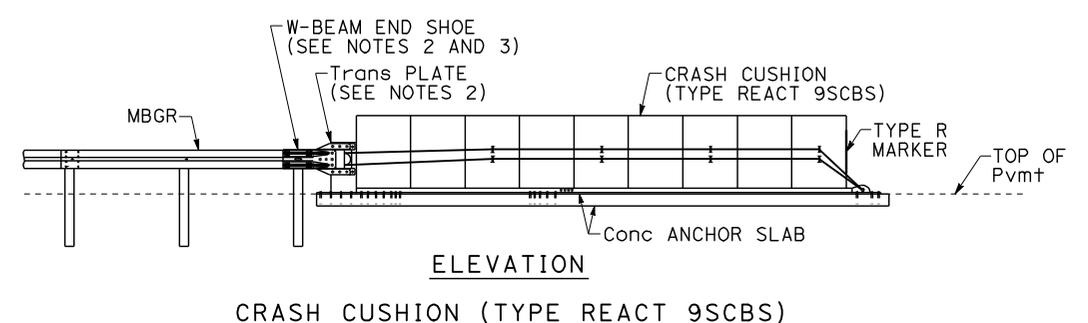
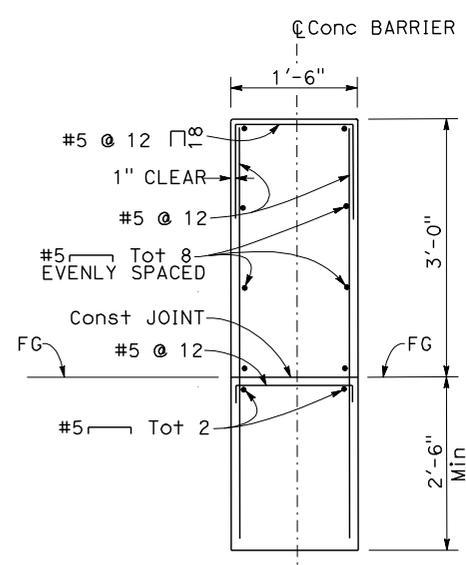
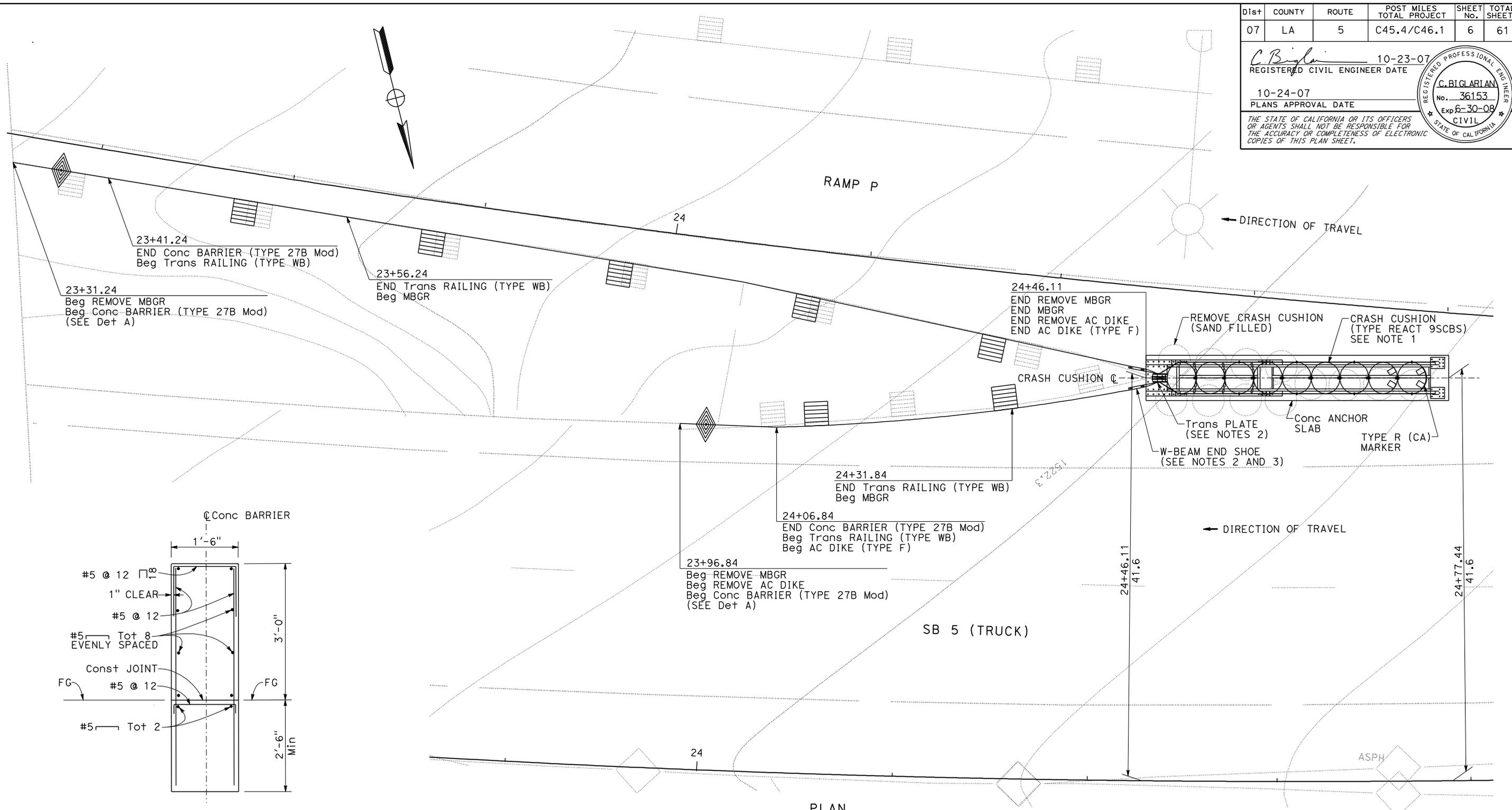


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	6	61

C. Biglar 10-23-07  
 REGISTERED CIVIL ENGINEER DATE  
 10-24-07  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 C. BIGLIARIAN  
 No. 36153  
 Exp 6-30-08  
 CIVIL  
 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.



- NOTES:**
- FOR ADDITIONAL DETAILS OF CRASH CUSHION (TYPE REACT 9SCBS), SEE STANDARD PLAN A82D1.
  - ATTACH MANUFACTURER SUPPLIED TRANSITION PLATES AND W-BEAM END SHOES TO BACKUP SUPPORT WITH MANUFACTURER SUPPLIED BOLTS.
  - ATTACH W-BEAM END SHOE TO MBGR WITH MANUFACTURER SUPPLIED BOLTS IN THE MANNER RECOMMENDED BY THE MANUFACTURER.

**LEGEND:**  
 (CA) CALIFORNIA SIGN CODE PER CALIFORNIA SUPPLEMENT

**CONSTRUCTION DETAILS**  
 NO SCALE

REVISIONS: 00-00-00 DATE PLOTTED => 14:04  
 00-00-00 TIME PLOTTED => 28-OCT-2007  
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 FUNCTIONAL SUPERVISOR: CRICORIS BIGLIARIAN  
 OFFICE OF DESIGN A  
 BORDER LAST REVISED 3/1/2007



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	7	61

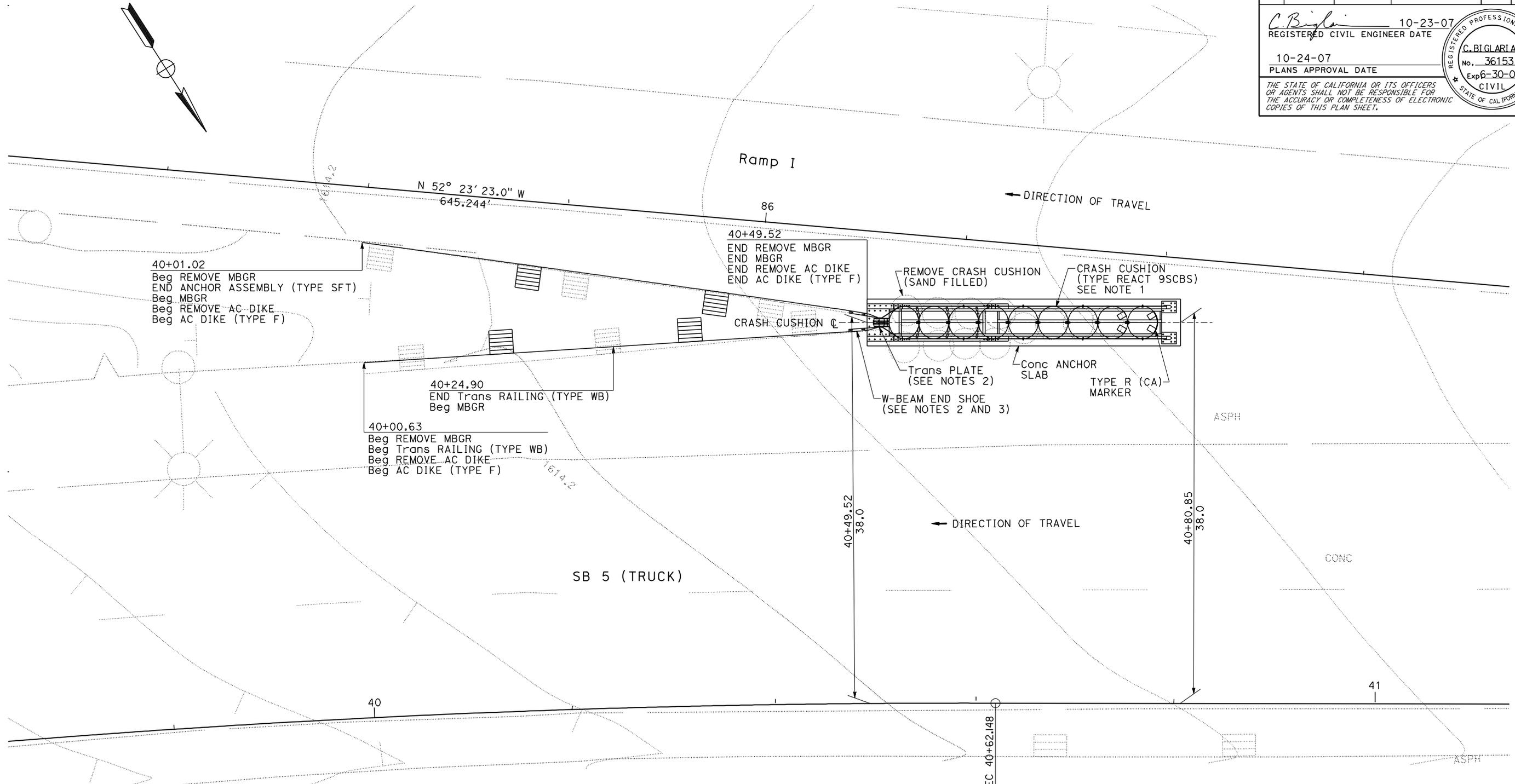
<i>C. Bigliari</i>	10-23-07
REGISTERED CIVIL ENGINEER DATE	
10-24-07	
PLANS APPROVAL DATE	

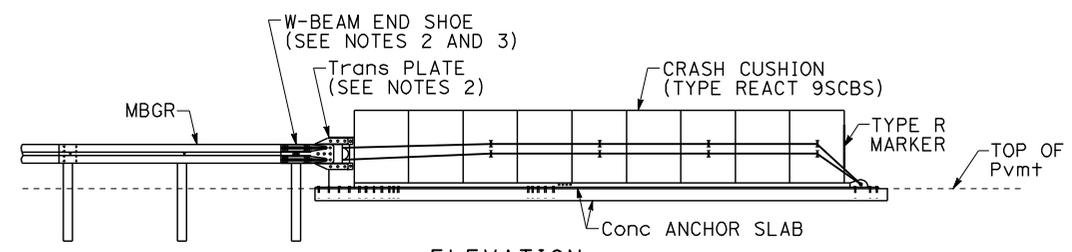
REGISTERED PROFESSIONAL ENGINEER	C. BIGLIARIAN
No.	36153
Exp	6-30-08
CIVIL	

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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** OFFICE OF DESIGN A  
 FUNCTIONAL SUPERVISOR: CRICORIS BIGLIARIAN  
 REVISIONS: 00-00-00 DATE PLOTTED => 28-OCT-2007 TIME PLOTTED => 14:05



PLAN



ELEVATION

CRASH CUSHION (TYPE REACT 9SCBS)

- NOTES:
- FOR ADDITIONAL DETAILS OF CRASH CUSHION (TYPE REACT 9SCBS), SEE STANDARD PLAN A82D1.
  - ATTACH MANUFACTURER SUPPLIED TRANSITION PLATES AND W-BEAM END SHOES TO BACKUP SUPPORT WITH MANUFACTURER SUPPLIED BOLTS.
  - ATTACH W-BEAM END SHOE TO MBGR WITH MANUFACTURER SUPPLIED BOLTS IN THE MANNER RECOMMENDED BY THE MANUFACTURER.

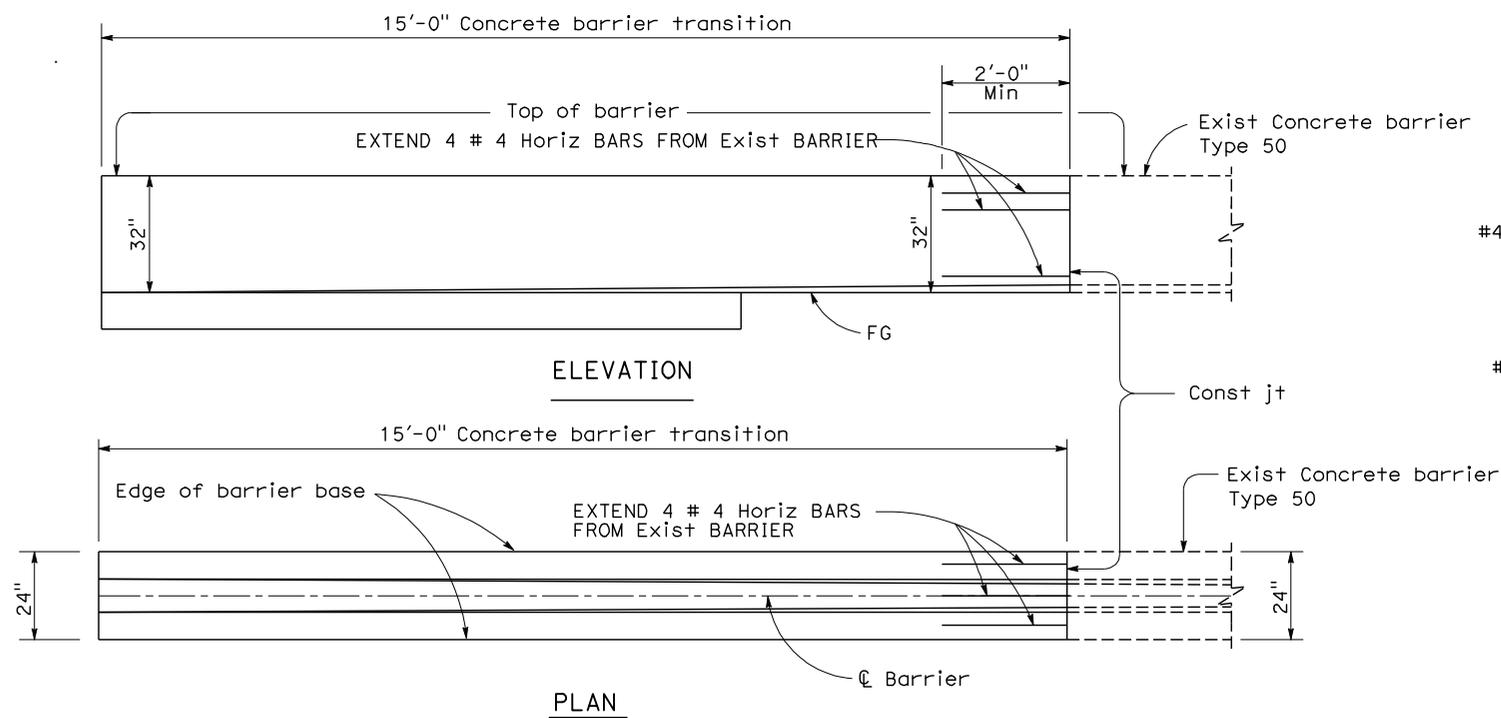
LEGEND:  
 (CA) CALIFORNIA SIGN CODE PER CALIFORNIA SUPPLEMENT

**CONSTRUCTION DETAILS**  
 NO SCALE

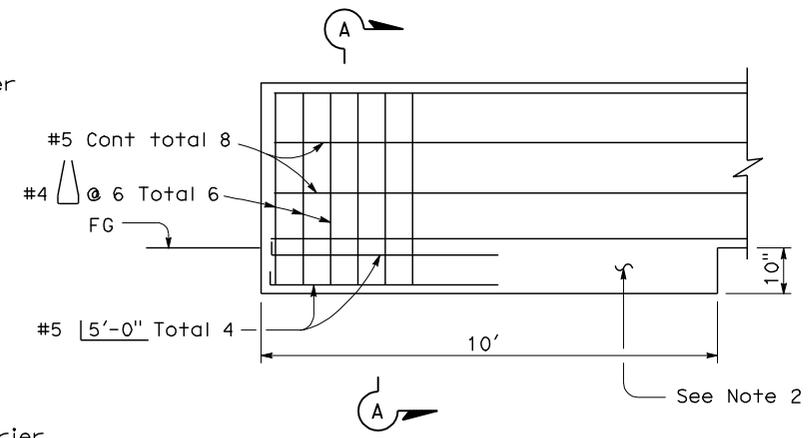
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	8	61

*C. Biglar* 10-23-07  
 REGISTERED CIVIL ENGINEER DATE  
 10-24-07  
 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.

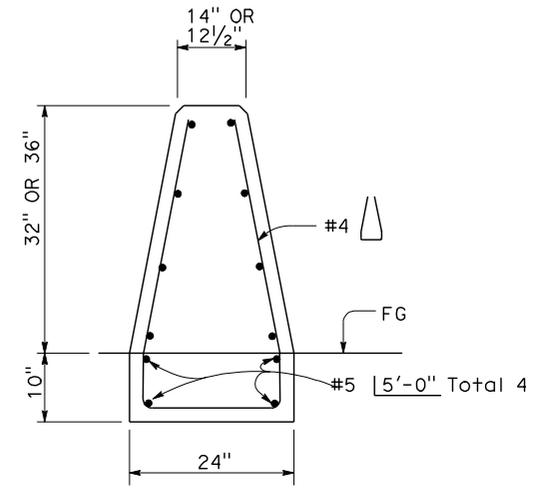
REGISTERED PROFESSIONAL ENGINEER	C. BIGLIARIAN
No. 36153	Exp 6-30-08
CIVIL	STATE OF CALIFORNIA



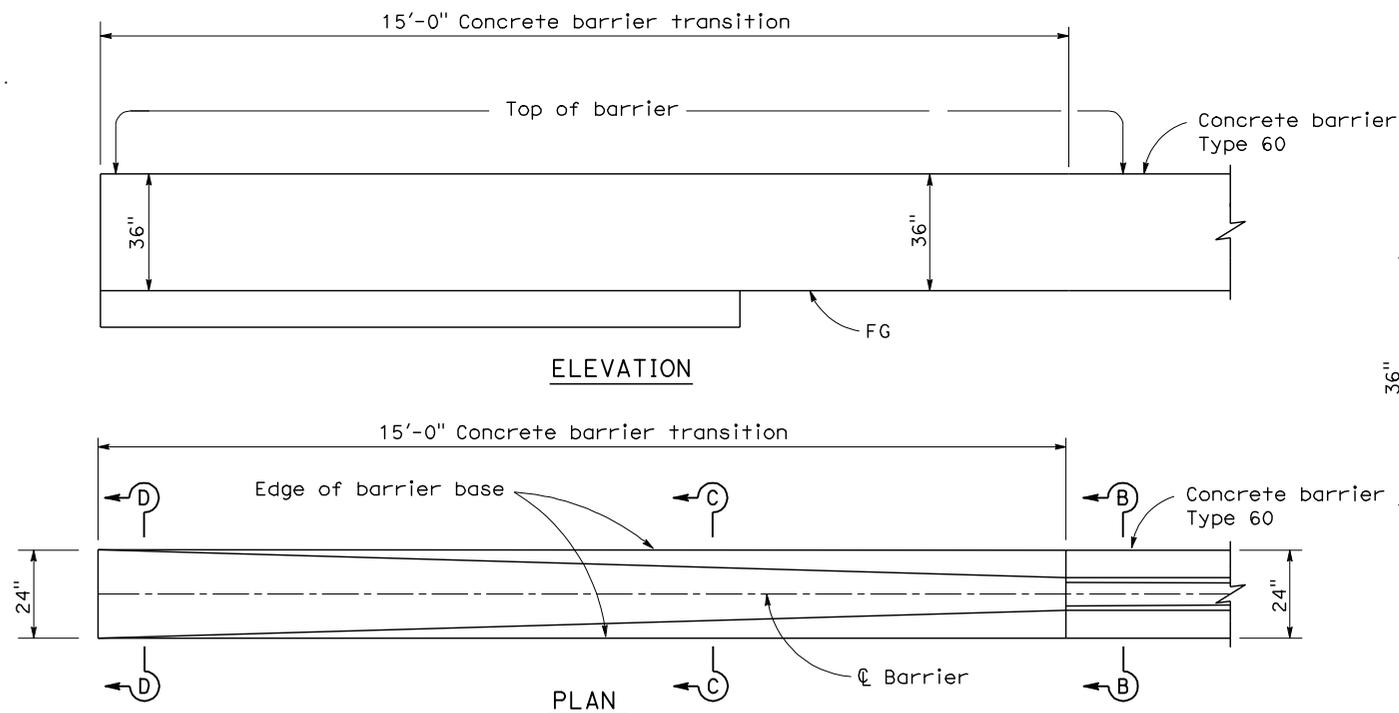
CONCRETE BARRIER TRANSITION TO TYPE 50 CONCRETE BARRIER



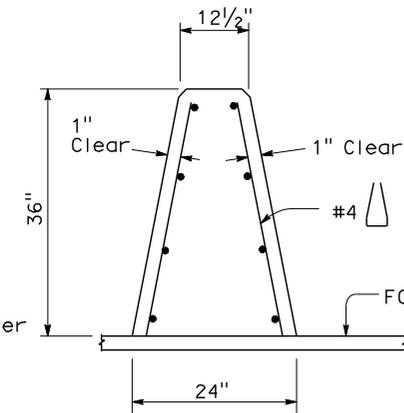
CONCRETE BARRIER END ANCHORAGE



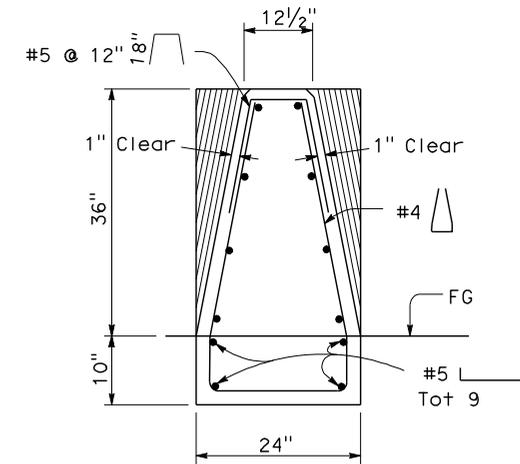
SECTION A-A



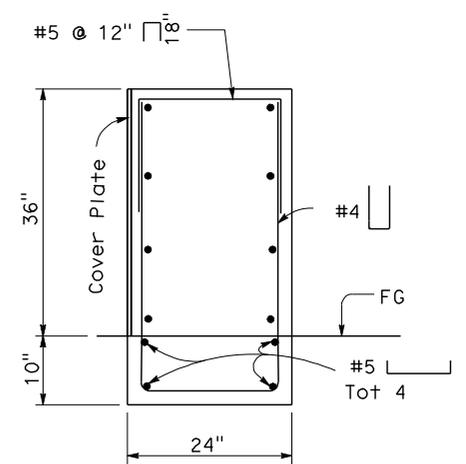
CONCRETE BARRIER TRANSITION FOR TYPE 60 CONCRETE BARRIER



SECTION B-B



SECTION C-C



SECTION D-D

- NOTES:
- Details similar to Type 60 and 60S except as shown. For more details see Standard Plan A76A and A76G.
  - Footing monolithic or doweled with 2-#8 x 8" @ 2'-0". The footing is required at concrete barrier ends and at interruptions in concrete barrier.
  - Expansion joints in concrete barrier shall be located at all deck, pavement and principal wall joints. Expansion joint filler material shall be the same size as joint or 1/2" minimum.
  - 10" Concrete barrier footing extends 10'-0" back from structure.

CONCRETE BARRIER TRANSITION

CONSTRUCTION DETAILS

NO SCALE

C-3

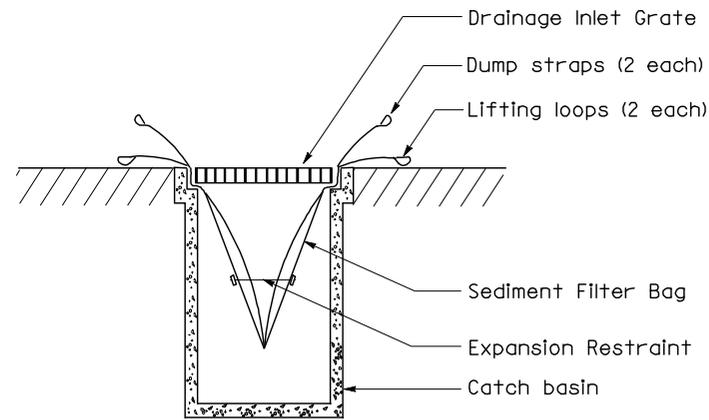
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	9	61

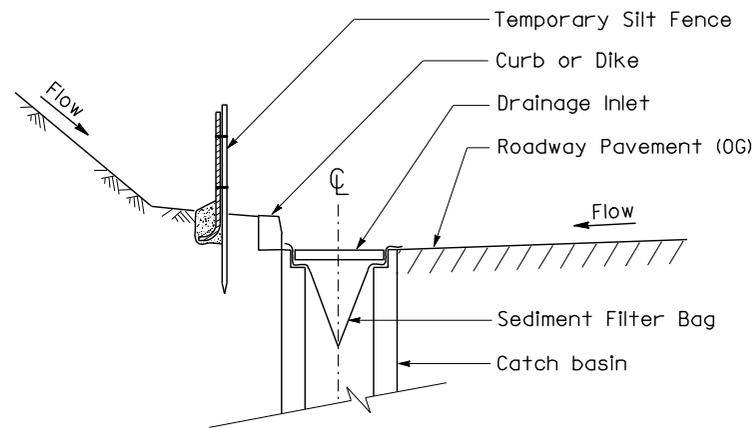
<i>C. Biglar</i>	10-23-07
REGISTERED CIVIL ENGINEER DATE	
10-24-07	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
**C. BIGLARIAN**  
 No. 36153  
 Exp 6-30-08  
 CIVIL  
 STATE OF CALIFORNIA

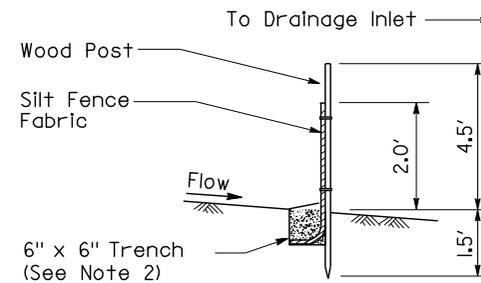
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



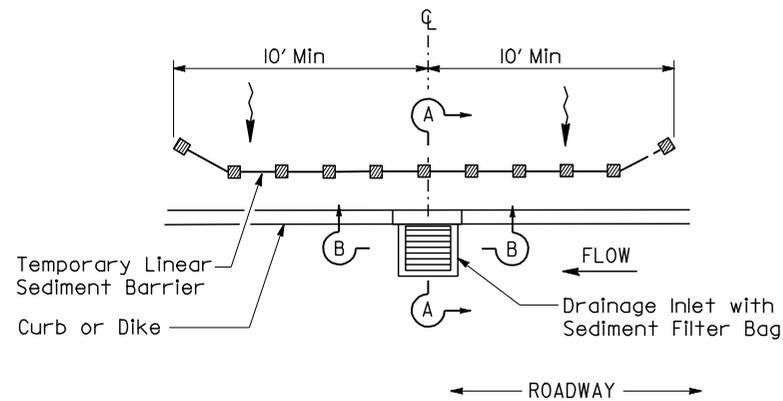
SECTION B-B  
SEDIMENT FILTER BAG DETAIL



SECTION A-A



SECTION  
TEMPORARY SILT FENCE DETAIL



PLAN  
TEMPORARY DRAINAGE  
INLET PROTECTION (TYPE 5)  
(SEDIMENT FILTER BAG)

NOTES:

1. Temporary Linear Sediment Barrier shall be silt fence, fiber roll, gravelbag barrier, or other.
2. Install Temporary Silt Fence by first digging trench, driving posts, placing and securing fabric. Then backfill and tamp.
3. Dimensions may vary to fit field conditions.

**TEMPORARY WATER POLLUTION CONTROL DETAILS  
(TEMPORARY DRAINAGE INLET PROTECTION)**

NO SCALE

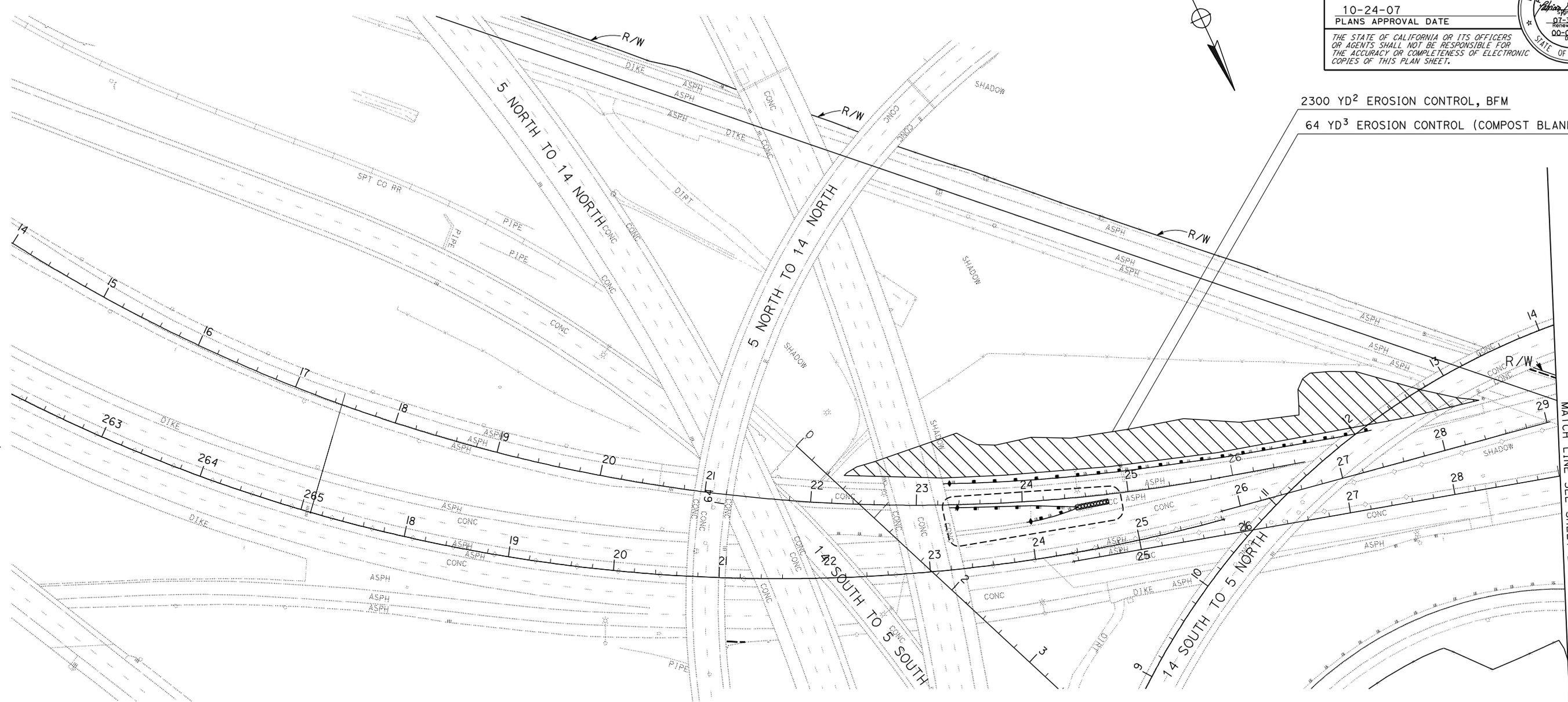
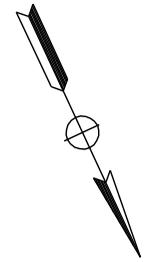
**WPCD-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans OFFICE OF DESIGN A**  
 FUNCTIONAL SUPERVISOR: CRICORIS BIGLARIAN  
 REVISIONS: (Grids x, y, z)  
 REVISION BY: (Grids x, y, z)  
 DATE REVISION: (Grids x, y, z)  
 CALCULATED/DESIGNED BY: (Grids x, y, z)  
 CHECKED BY: (Grids x, y, z)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	10	61

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
 NO. 3168  
 10-24-07  
 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.

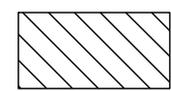
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



2300 YD<sup>2</sup> EROSION CONTROL, BFM  
 64 YD<sup>3</sup> EROSION CONTROL (COMPOST BLANKET)

MATCH LINE SEE SHEET EC-2

LEGEND



EROSION CONTROL (COMPOST BLANKET)  
 EROSION CONTROL, BFM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Ettrans LANDSCAPE ARCHITECT**  
 SENIOR LANDSCAPE ARCHITECT  
 PATRICIA R WATANABE  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED

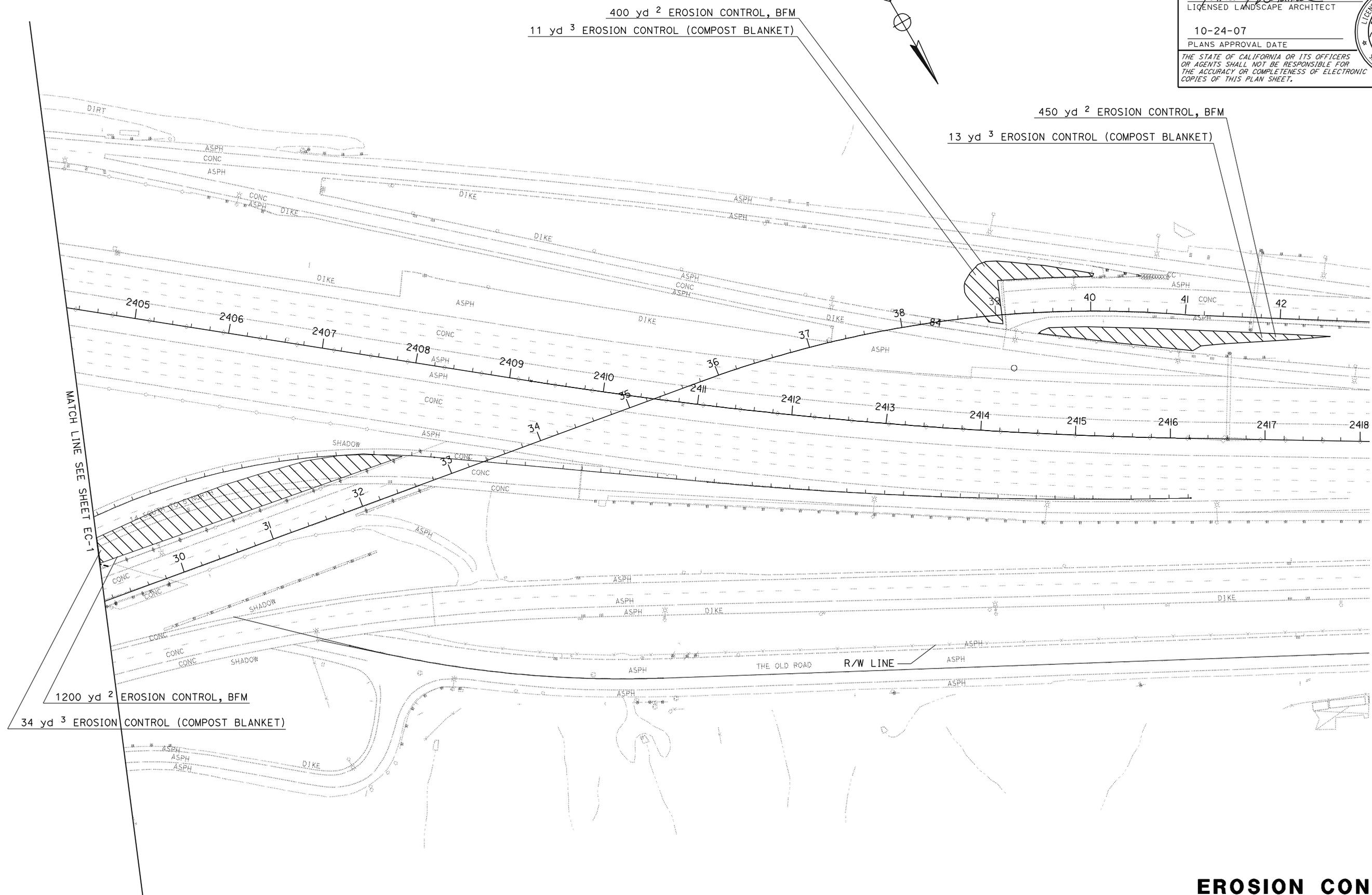
**EROSION CONTROL**  
 SCALE: 1"=50'  
**EC-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECT  
 SENIOR LANDSCAPE ARCHITECT  
 PATRICIA R. WATANABE  
 DP  
 PW  
 CALCULATED BY  
 CHECKED BY  
 DESIGNED BY  
 REVISIONS

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,  
 SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	11	61

*Patricia R. Watanabe*  
 LICENSED LANDSCAPE ARCHITECT  
 No. 3166  
 10-24-07  
 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.

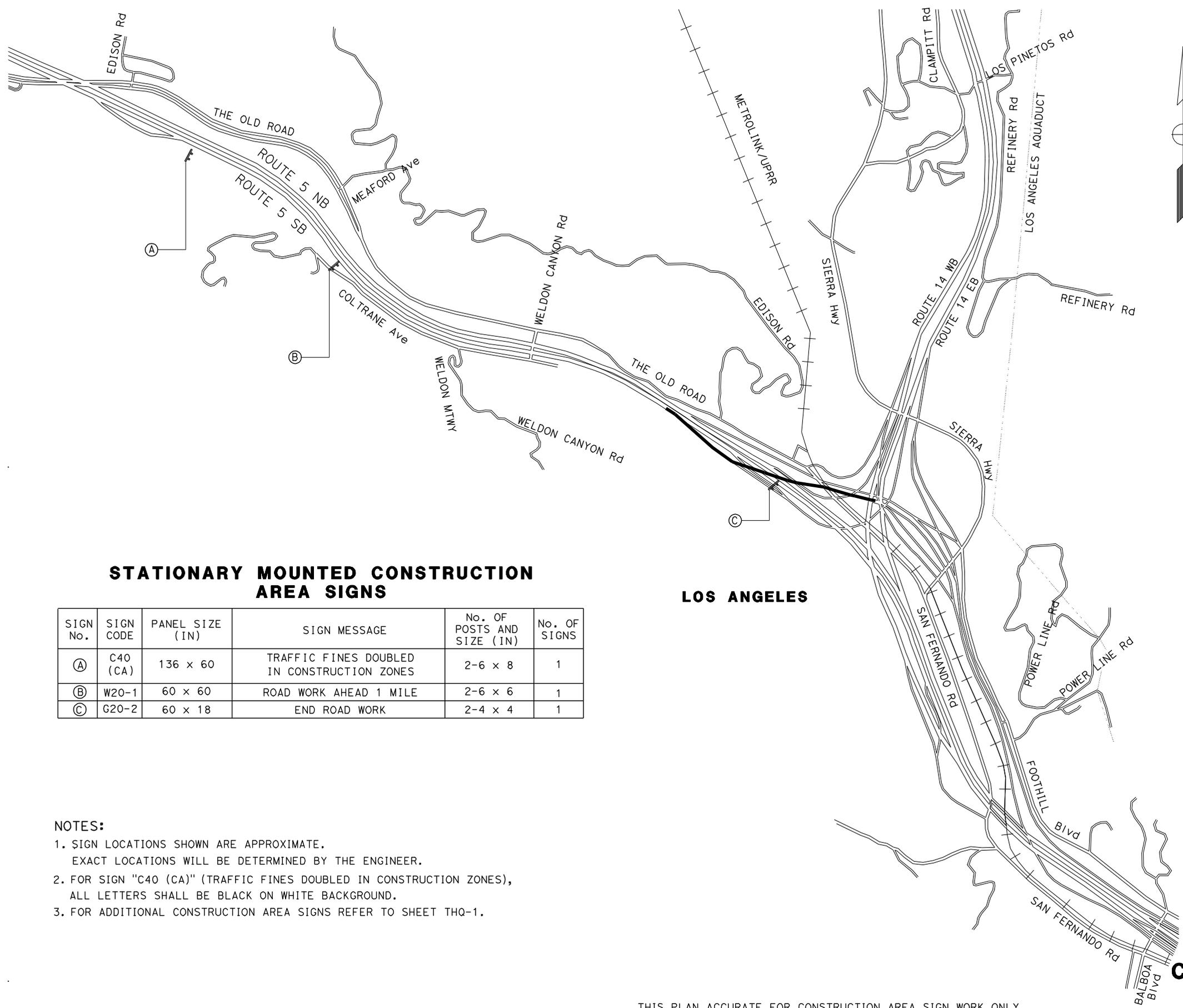


**EROSION CONTROL**  
 SCALE: 1"=50'

**EC-2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	12	61

REGISTERED CIVIL ENGINEER DATE: 10-23-07  
 REGISTERED CIVIL ENGINEER: JAMES TUCKER  
 No. C6332L  
 Exp. 6/30/08  
 CIVIL  
 STATE OF CALIFORNIA  
 PLANS APPROVAL DATE: 10-24-07  
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.



**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN No.	SIGN CODE	PANEL SIZE (IN)	SIGN MESSAGE	No. OF POSTS AND SIZE (IN)	No. OF SIGNS
(A)	C40 (CA)	136 x 60	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2-6 x 8	1
(B)	W20-1	60 x 60	ROAD WORK AHEAD 1 MILE	2-6 x 6	1
(C)	G20-2	60 x 18	END ROAD WORK	2-4 x 4	1

- NOTES:**
- SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
  - FOR SIGN "C40 (CA)" (TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES), ALL LETTERS SHALL BE BLACK ON WHITE BACKGROUND.
  - FOR ADDITIONAL CONSTRUCTION AREA SIGNS REFER TO SHEET THQ-1.

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** OFFICE OF DESIGN A  
 FUNCTIONAL SUPERVISOR  
 J. TUCKER  
 D. HIGA  
 REVISOR BY  
 DATE REVISOR  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 BORDER LAST REVISED 3/1/2007



USERNAME => trmikesl  
DGN FILE => 71x8401a001.dgn

CU 07262 EA 1X8401

LAST REVISION | DATE PLOTTED => 28-OCT-2007  
 00-00-00 | TIME PLOTTED => 14:05

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	13	61

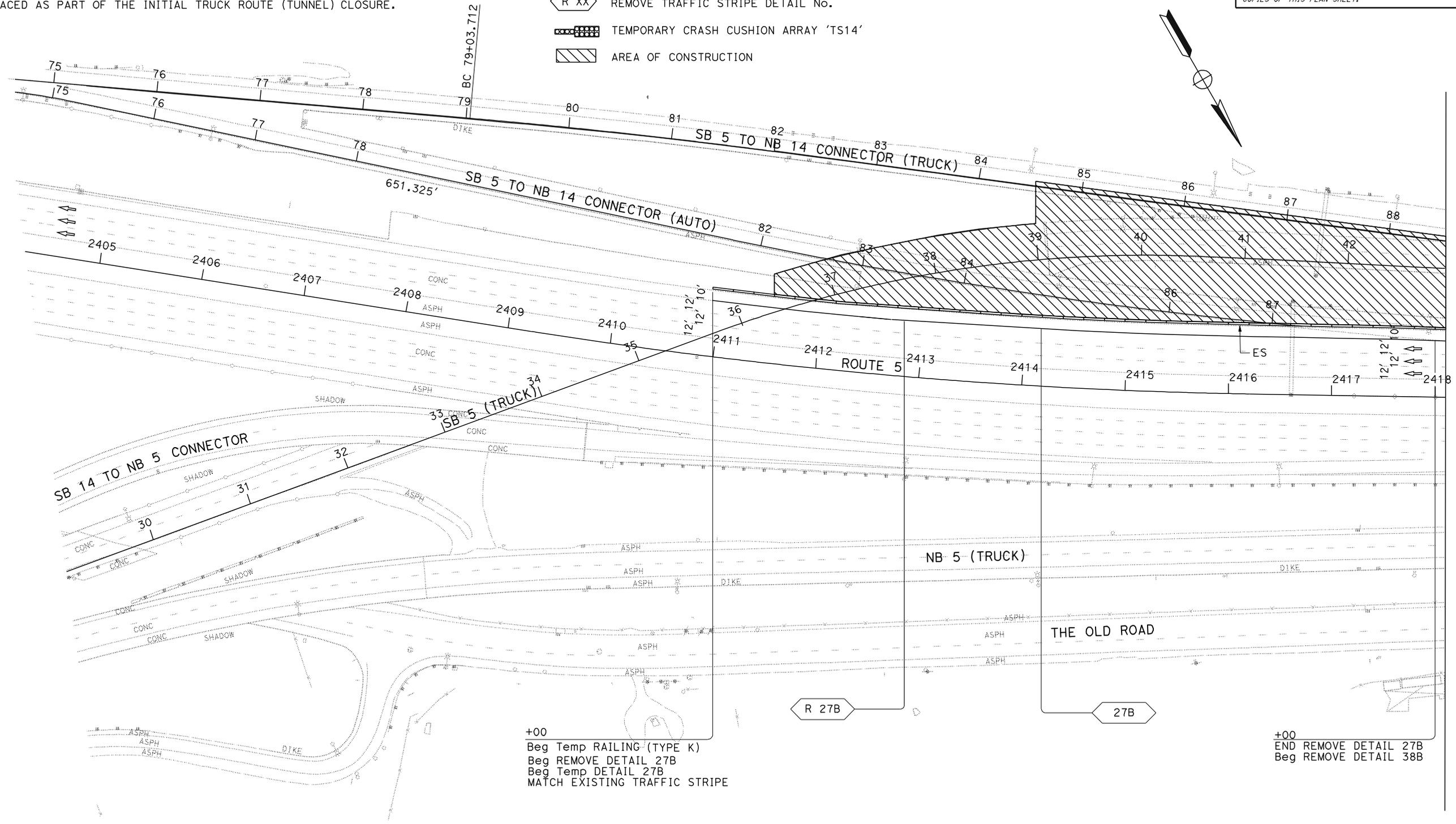
<i>James B. Tucker, Jr.</i> 10-23-07 REGISTERED CIVIL ENGINEER DATE	
10-24-07 PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.	

**NOTES:**

1. REMOVE CONFLICTING TRAFFIC STRIPES.
2. REMOVE/COVER CONFLICTING SIGNS.
3. LOCATIONS FOR CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
4. STATIONS ARE REFERENCED TO ROUTE 5 CENTER LINE
5. REMOVE CONFLICTING STRIPING, CHANNELIZERS AND OTHER FEATURES PLACED AS PART OF THE INITIAL TRUCK ROUTE (TUNNEL) CLOSURE.

**LEGEND AND ABBREVIATIONS:**

- CONSTRUCTION AREA SIGN ONE POST
- DIRECTION OF TRAFFIC
- TEMPORARY RAILING (TYPE K)
- CHANNELIZERS
- TEMPORARY PAVEMENT MARKING TYPE VI ARROW
- REMOVE TRAFFIC STRIPE DETAIL No.
- TEMPORARY CRASH CUSHION ARRAY 'TS14'
- AREA OF CONSTRUCTION



**TRAFFIC HANDLING PLAN**

SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR TRAFFIC HANDLING ONLY

**TH-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans OFFICE OF DESIGN A**  
 FUNCTIONAL SUPERVISOR: CRICORIS BIGLIARIAN  
 CALCULATED/DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 REVISED BY: [Blank] DATE REVISED: [Blank]

BORDER LAST REVISED 3/1/2007



USERNAME => trmikes1  
DGN FILE => 71x840md001.dgn

CU 07262

EA 1X8401

LAST REVISION: 00-00-00  
 DATE PLOTTED => 28-OCT-2007  
 TIME PLOTTED => 14:05

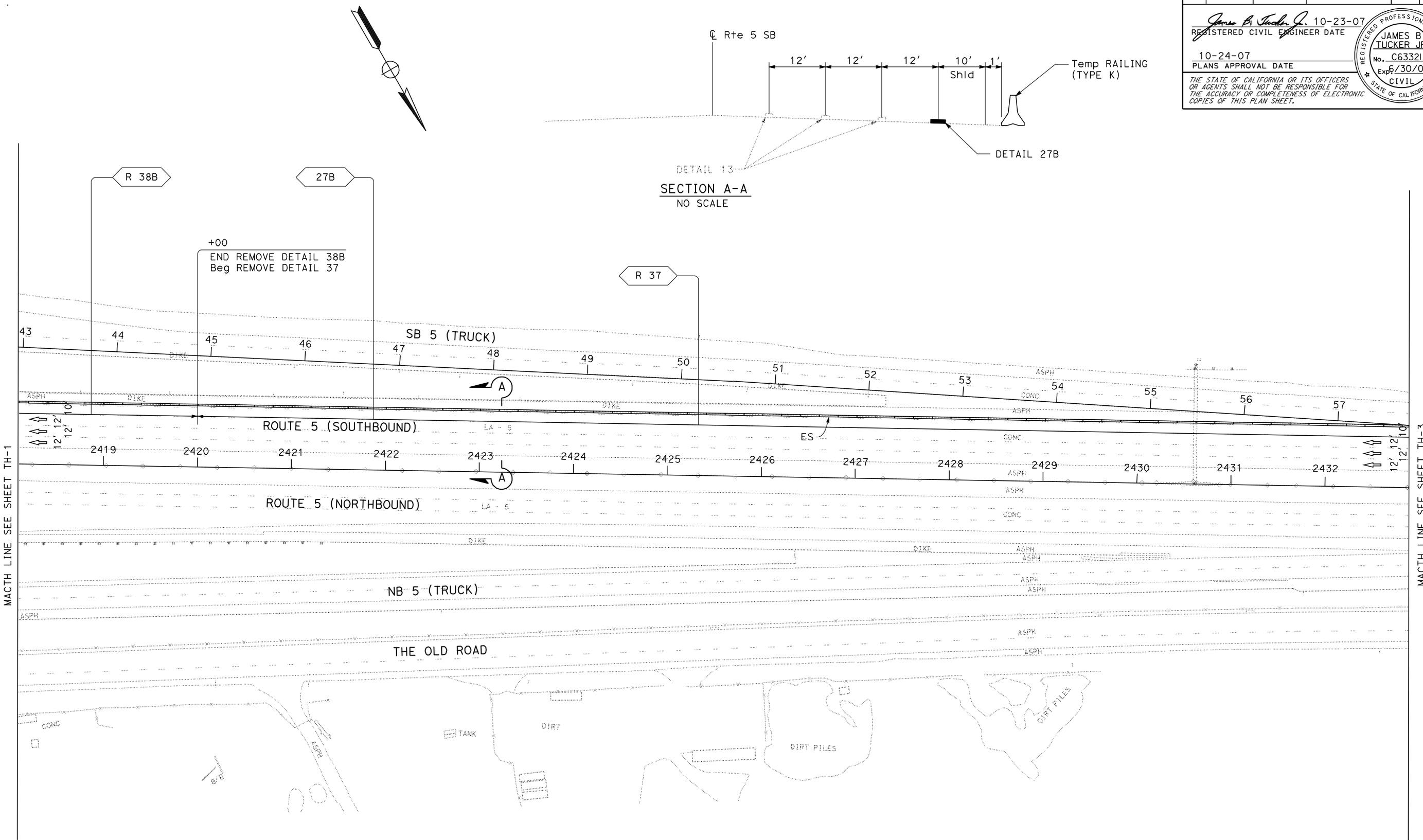
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	14	61

REGISTERED CIVIL ENGINEER DATE 10-23-07  
 REGISTERED CIVIL ENGINEER  
 JAMES B. TUCKER JR.  
 No. C63321  
 Exp. 6/30/08  
 CIVIL  
 STATE OF CALIFORNIA

10-24-07  
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** OFFICE OF DESIGN A  
 FUNCTIONAL SUPERVISOR: CRICORIS BIGLIARIAN  
 CALCULATED/DESIGNED BY: [ ] CHECKED BY: [ ]  
 REVISED BY: [ ] DATE REVISED: [ ]



# TRAFFIC HANDLING PLAN

SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR TRAFFIC HANDLING ONLY

**TH-2**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	5	LA	C45.4/C46.1	16	61

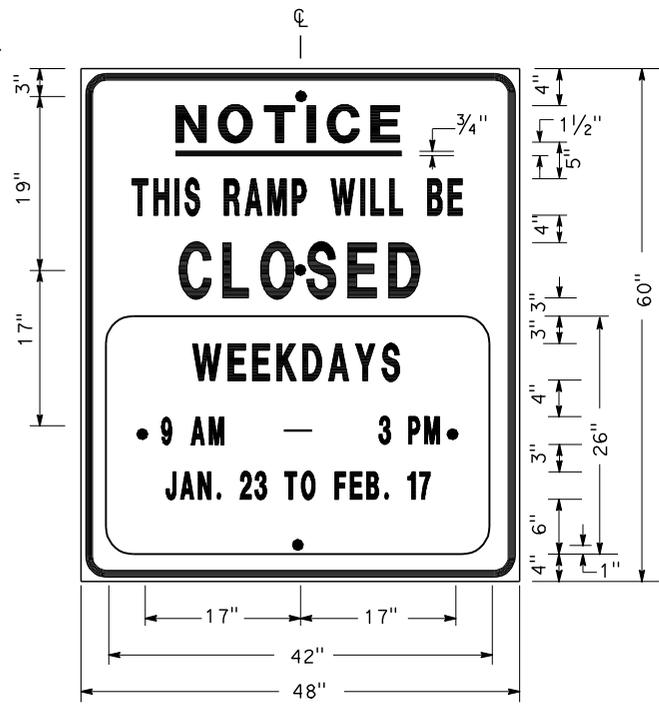
REGISTERED CIVIL ENGINEER DATE 10-23-07  
 10-24-07  
 PLANS APPROVAL DATE

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.

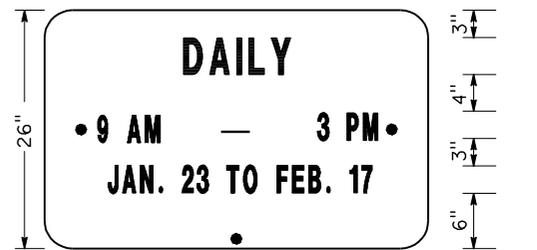
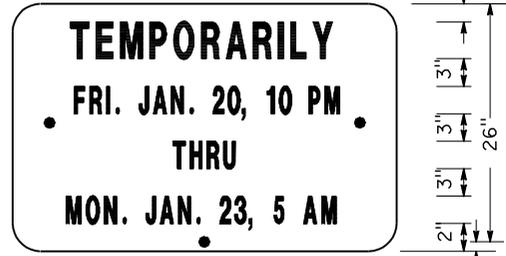
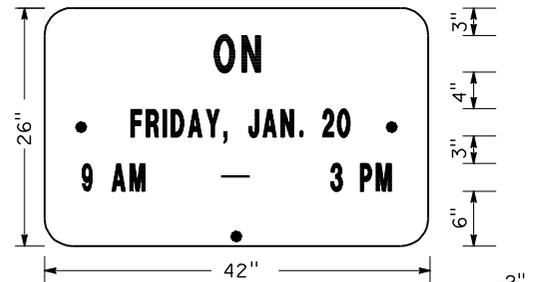
- NOTES: (SIGN SP-1)
- SIGNS SHALL HAVE ORANGE RETROREFLECTORIZED BACKGROUND WITH BLACK BORDER AND LETTERS.
  - BOLT HOLES SHALL BE 3/8" DIAMETERS.
  - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
  - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

SIZE	BORDER		MARGIN		LETTER SIZE				CORNER RADIUS
	WIDTH	HEIGHT	LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5,6 & 7*		
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"	
42"x26"	OVERLAY						3D	1 1/2"	

\* CONDENSED SPACING IF NECESSARY

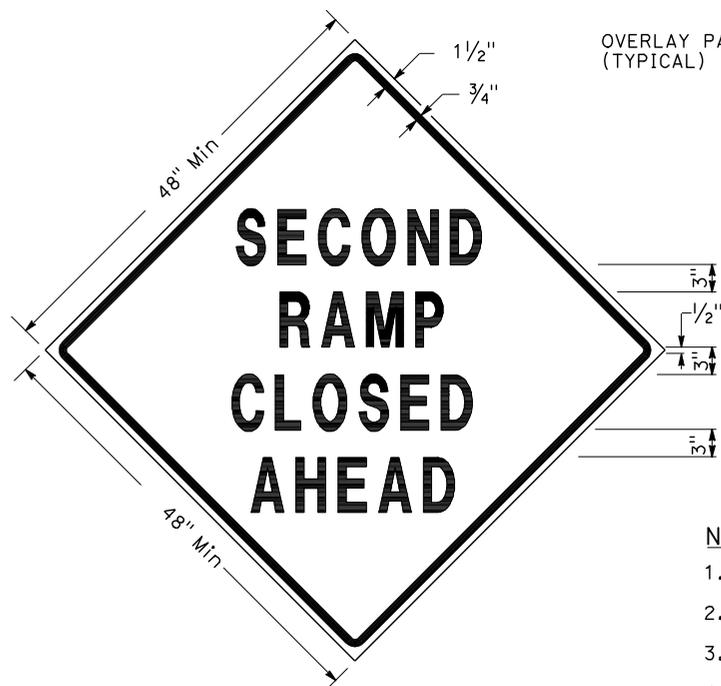


SIGN SP-1



ALTERNATE OVERLAY PANELS (TYPICAL)

**SPECIAL ADVANCE NOTICE PUBLICITY SIGN**



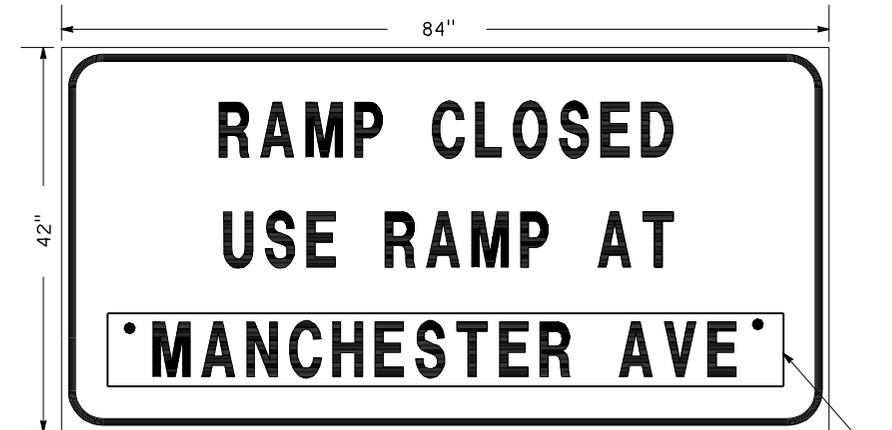
SIGN SP-3

**SPECIAL SIGN FOR EXIT RAMP CLOSURES**

- NOTES: (SIGNS SP-3 & SP-5)
- LETTERS - 6" SERIES D.
  - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
  - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
  - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.



SIGN SP-5



SIGN SP-4

- NOTES: (SIGN SP-4)
- LETTERS - 6" SERIES C.
  - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED WHITE BACKGROUND.
  - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
  - SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH STANDARD PLAN T14.

**SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES**

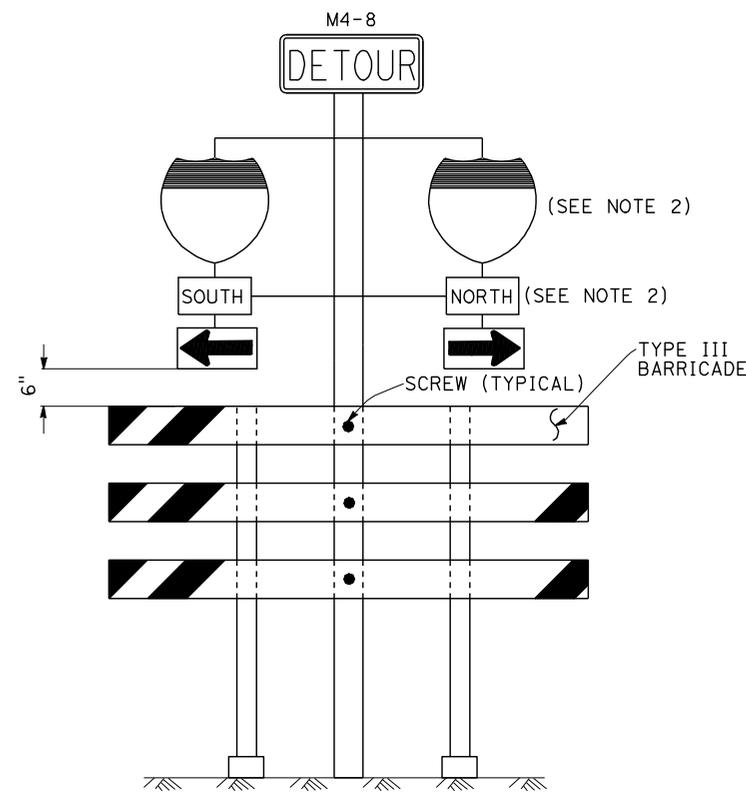
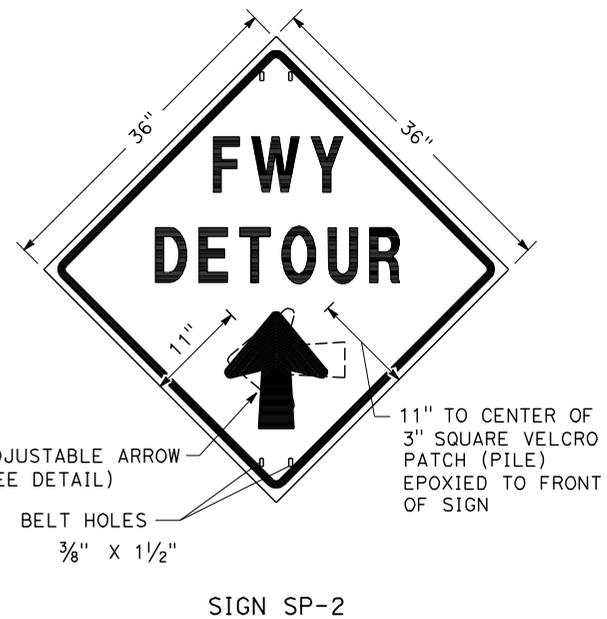
**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR RAMP CLOSURES, DETOUR SIGNS  
AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

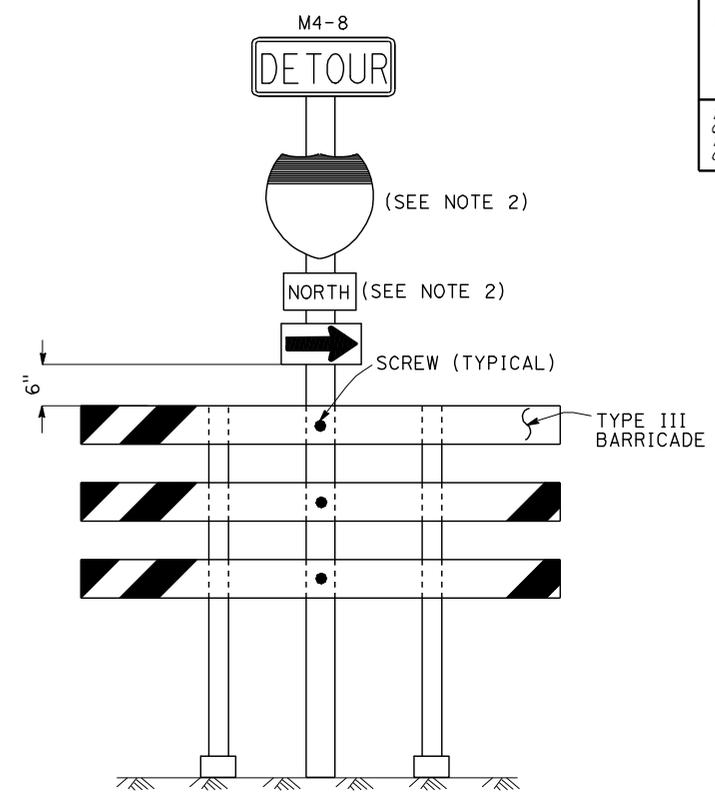
NO SCALE

THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 CALTRANS  
 FUNCTIONAL SUPERVISOR: MARTIN OREGEL  
 DESIGNED BY: ALBERT K YU  
 CHECKED BY: JOCELYN C CHIANG  
 REVISIONS: JC 4/07  
 DATE REVISED: 4/07



**SIGN SP-6 (SEE NOTE 1)**



**SIGN SP-7 (SEE NOTE 1)**

**NOTES: (SIGN SP-2)**

- LETTERS -6" SERIES E.
- LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
- BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
- BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
- SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

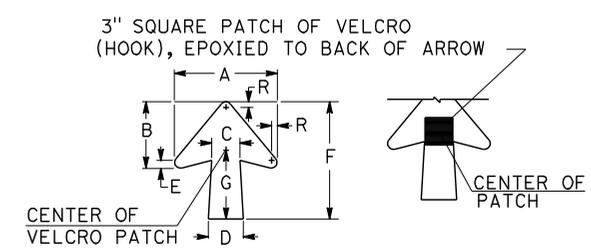
**ABBREVIATION**

(CA) CALIFORNIA CODE

**NOTES: (SIGNS SP-6 & SP-7)**

- IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
- USE APPROPRIATE ROUTE SHIELD [G26 (CA), G27 (CA), G28 (CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)]

**SPECIAL PORTABLE FREEWAY DETOUR SIGNS**



DIMENSIONS							
A	B	C	D	E	F	G	R
11 1/4"	7 1/4"	3 1/8"	4"	7/8"	13"	7 1/2"	5/8"

SPECIAL PORTABLE FREEWAY DETOUR SIGN

**ADJUSTABLE ARROW DETAIL**

**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR RAMP CLOSURES, DETOUR SIGNS  
AND MISCELLANEOUS DETAILS**

**SHEET 2 OF 2**

NO SCALE

**THD-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: MARTIN OREGEL  
 CHECKED BY: JOCELYN C CHIANG  
 DESIGNED BY: ALBERT K YU  
 REVISIONS: 4/07  
 DATE: 4/07

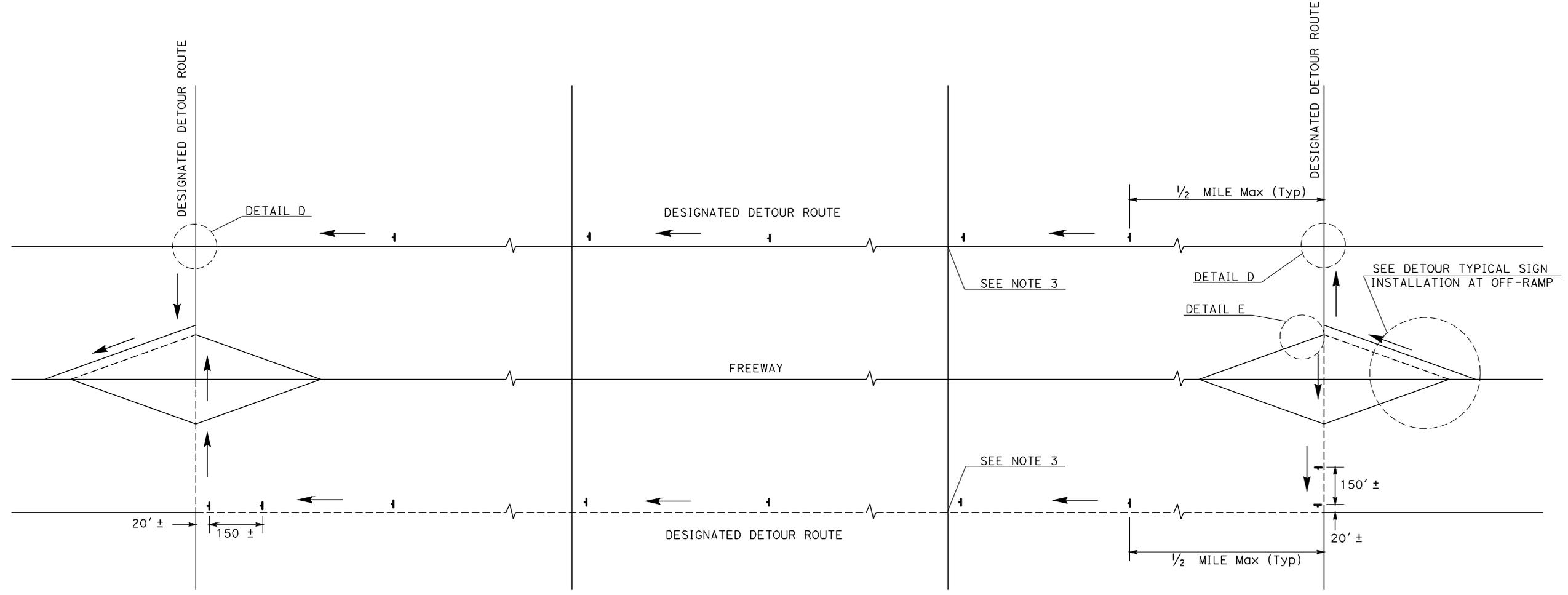
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	18	61

*Martin Oregel* 10-23-07  
 REGISTERED CIVIL ENGINEER DATE  
 10-24-07  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**MARTIN OREGEL**  
 No. C56816  
 Exp. 6-30-09  
 CIVIL  
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
**DTM**  
 FUNCTIONAL SUPERVISOR  
**MARTIN OREGEL**  
 CALCULATED-DESIGNED BY  
**ALBERT K YU**  
 CHECKED BY  
**JOCELYN C CHIANG**  
 REVISED BY  
**JC**  
 DATE REVISED  
**4/07**



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

**LEGEND**

SIGN SP-2  
 AND/OR DESIGNATED DETOUR ROUTE  
  
 DIRECTION OF TRAVEL

**NOTES:**

1. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
3. SP-2 SIGNS SHALL BE POSTED AT SIGNALIZED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE OR 1/2 MILE MAXIMUM APART.

**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR DETOUR SIGN INSTALLATION**  
**ALONG DESIGNATED DETOUR ROUTE**  
**SHEET 1 OF 2**  
 NO SCALE

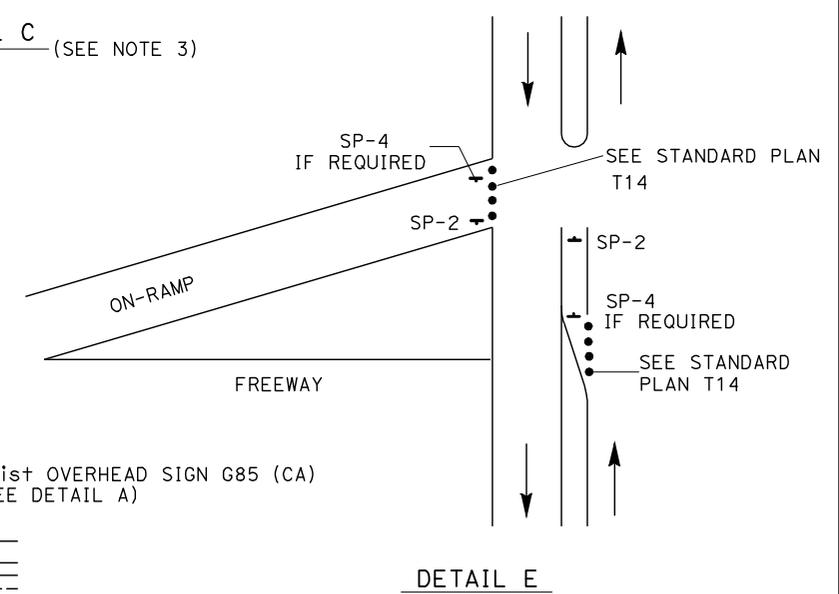
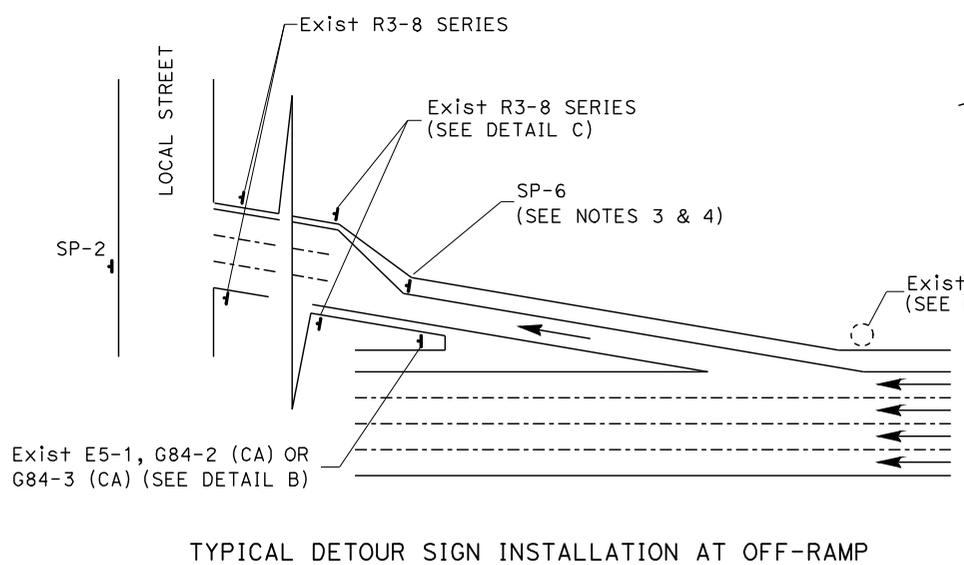
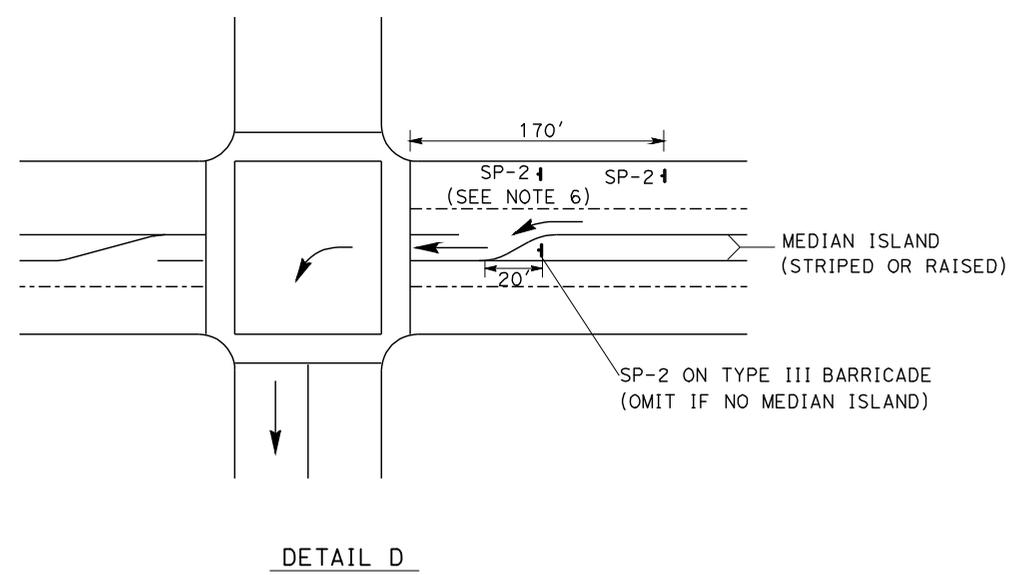
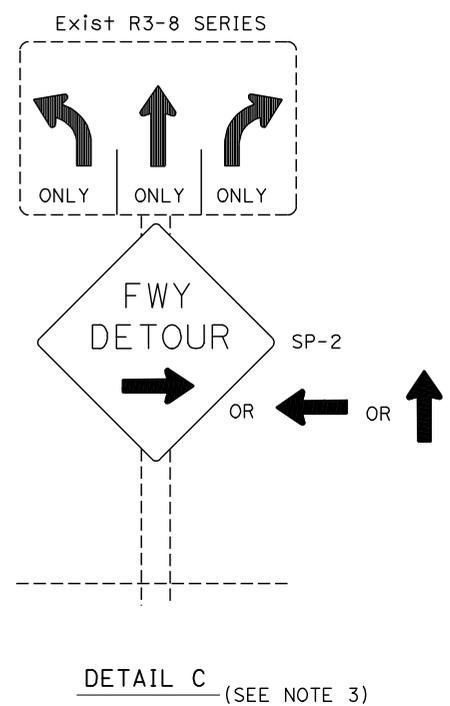
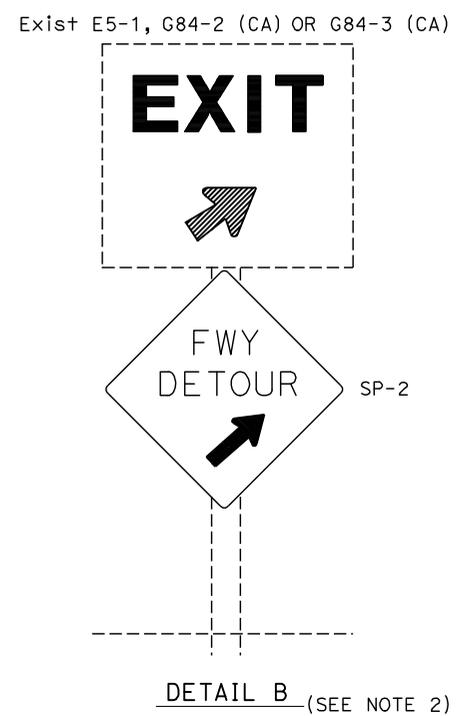
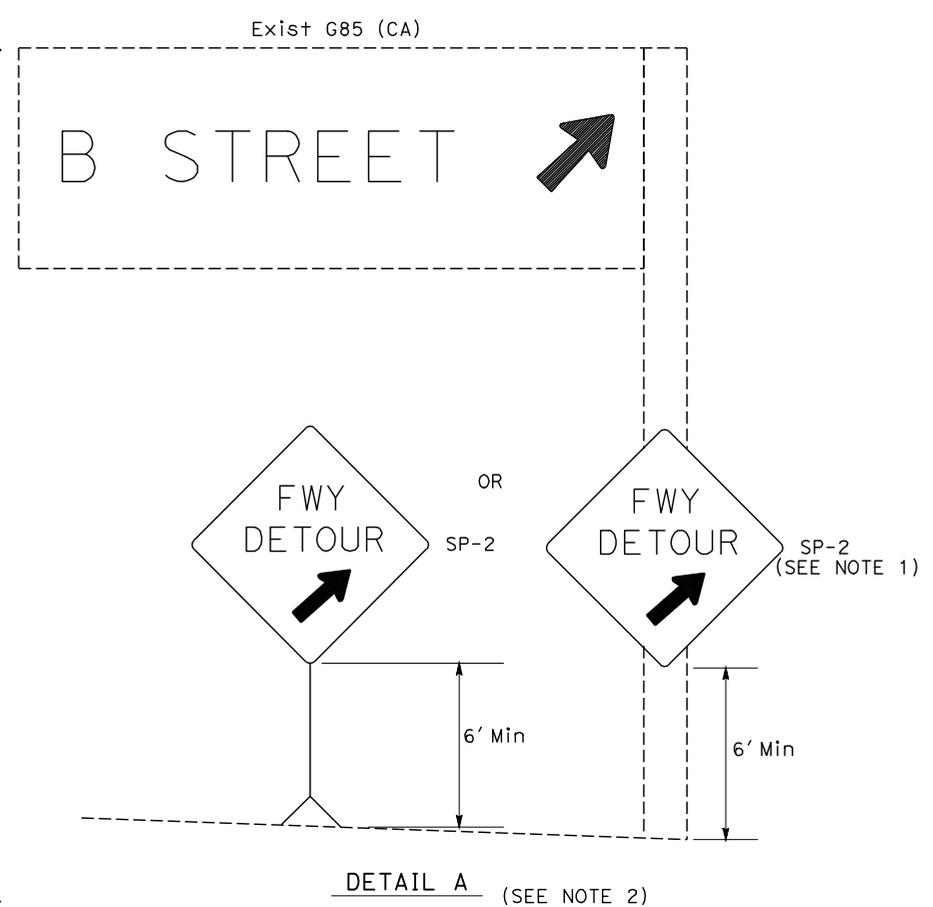
**THD-3**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	19	61

10-23-07  
 REGISTERED CIVIL ENGINEER DATE  
 10-24-07  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 MARTIN OREGEL  
 No. C56816  
 Exp. 6-30-09  
 CIVIL  
 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.



- NOTES:**
1. SP-2 MAY BE STRAPPED ON EXISTING ELECTROLIER SIGNAL POSTS OR SIGN POSTS.
  2. OMIT DETAIL A AND DETAIL B FOR FULL FREEWAY CLOSURES.
  3. SEE SPECIAL PROVISIONS FOR SIGN REQUIREMENTS.
  4. OMIT DETAIL C WHEN SP-6 IS USED.
  5. SEE TRAFFIC HANDLING DETAILS PLAN-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS SHEET 2 OF 2 FOR SP-6.
  6. OMIT IF MEDIAN ISLAND EXIST.

**ABBREVIATIONS**

(CA) CALIFORNIA CODE

- LEGENDS**
- CONE
  - † PORTABLE SIGN
  - DIRECTION OF TRAVEL
  - EXISTING OVERHEAD SIGN

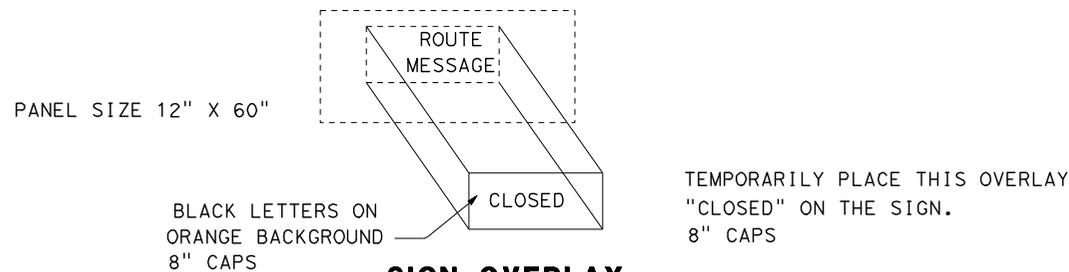
**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR DETOUR SIGN INSTALLATION  
ALONG DESIGNATED DETOUR ROUTE  
SHEET 2 OF 2  
NO SCALE**

**THD-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Functional Supervisor: MARTIN OREGEL  
 Calculated/Designed By: ALBERT K YU  
 Checked By: JOCELYN C CHIANG  
 Revised By: JC  
 Date Revised: 4/07

**EXISTING OVERHEAD SIGNS**

POST MILE (APPROXIMATE)	ROUTE 5 DIRECTION	OVERHEAD SIGN MESSAGE	REMARKS
46.0	SB	NORTH PALMDALE 14 LANCASTER ONLY	SEE SIGN OVERLAY TYPICAL DETAIL
46.34	SB	14 NORTH PALMDALE LANCASTER ONLY	SEE SIGN OVERLAY TYPICAL DETAIL
49.81	SB	CALGROVE BLVD TRUCK ROUTE 5 14 4 1/2 ANTELOPE VALLEY FWY 14 4 3/4	SEE SIGN OVERLAY TYPICAL DETAIL
50.96	SB	LYONS AVE 1/2 CALGROVE BLVD 1 3/4 TRUCK ROUTE 5 14 3 1/2	SEE SIGN OVERLAY TYPICAL DETAIL
* TOTAL No. OF SIGNS			4



**SIGN OVERLAY TYPICAL DETAIL**

**TRAFFIC HANDLING SIGNS**

SHEET No.	STATION	DIRECTION		CODE	SIGN MESSAGE	PANEL SIZE (IN)	"D" Dim (IN)	"H" Dim (IN)	"E" Dim (IN)	POST LENGTH	POST SIZE (IN)			* ONE POST	REMARKS
		ROUTE 5-NB	ROUTE 5-SB								4 X 4	4 X 6	6 X 6		
TH-3	2444+00		X	W4-2(L+)	LANE ENDS MERGE LEFT	36 X 48	48	108	54	15'-6"		X		1	
	2450+00		X	W9-1(R+)	RIGHT LANE ENDS	36 X 36	51	109	54	15'-9"		X		1	
TOTAL														2	

\* NOT A SEPARATE PAY ITEM, PAID AS CONSTRUCTION AREA SIGNS LUMP SUM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	20	61

James B. Tucker, Inc. 10-23-07  
REGISTERED CIVIL ENGINEER DATE

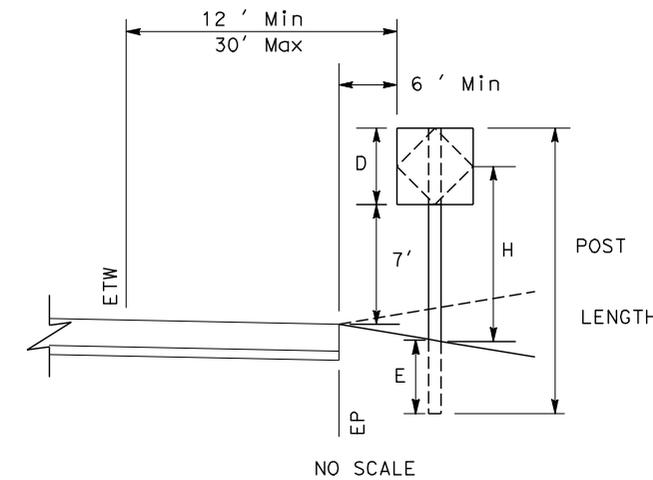
10-24-07  
PLANS APPROVAL DATE

JAMES TUCKER  
No. C6332L  
Exp. 6/30/08  
CIVIL

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.

**TRAFFIC HANDLING QUANTITIES**

SHEET No.	DIRECTION	PAVEMENT DELINEATION										MISCELLANEOUS						
		REMOVE					INSTALL					TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION MODULE	CHANNELIZER (SURFACE MOUNTED)				
		PAVEMENT MARKER		THERMOPLASTIC TRAFFIC STRIPE			TEMPORARY TRAFFIC STRIPE (PAINT)		TEMPORARY PAVEMENT MARKING (PAINT)									
		DETAIL 13 (TYPE A)	DETAIL 13 (TYPE G)	DETAIL 37 (TYPE G)	DETAIL 37 (TYPE C)	8" WHITE (DETAIL 27B)	DETAIL 37	DETAIL 38B	DETAIL 13	4" WHITE (DETAIL 27B)	DIAGONAL	(TYPE VI ARROW)	LF	SQFT	SQFT	LF	EA	EA
TH-1	SB	EA	EA	EA	EA	LF	LF	LF	LF	LF			710.0			720		
TH-2	SB			16	43		1290	190		1480.0						1480		
TH-3	SB	105	23	18	32		960		1010	960.0	502	128	200	14	39			
SUBTOTAL		105	23	34	75	1400	2250	200	1010	3150.0	502	128	2400	14	39			
TOTAL		237				4860				3150.0		630		2400	14	39		

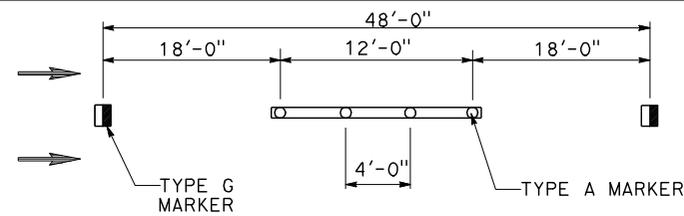
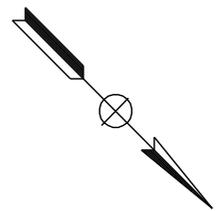


**TRAFFIC HANDLING PLAN QUANTITIES**

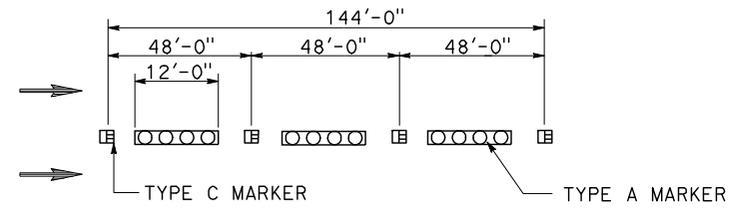
**THQ-1**

**NOTES:**

1. ALL STRIPES AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
2. ALL CHEVRON AND DIAGONAL MARKINGS SHALL BE APPLIED AT A 45 DEGREE ANGLE FROM THE ETW.
3. ALL CONFLICTING STRIPING SHALL BE REMOVED.
4. ALL LANES ARE 12' WIDE UNLESS OTHERWISE SHOWN ON PLANS.



**DETAIL 13M**



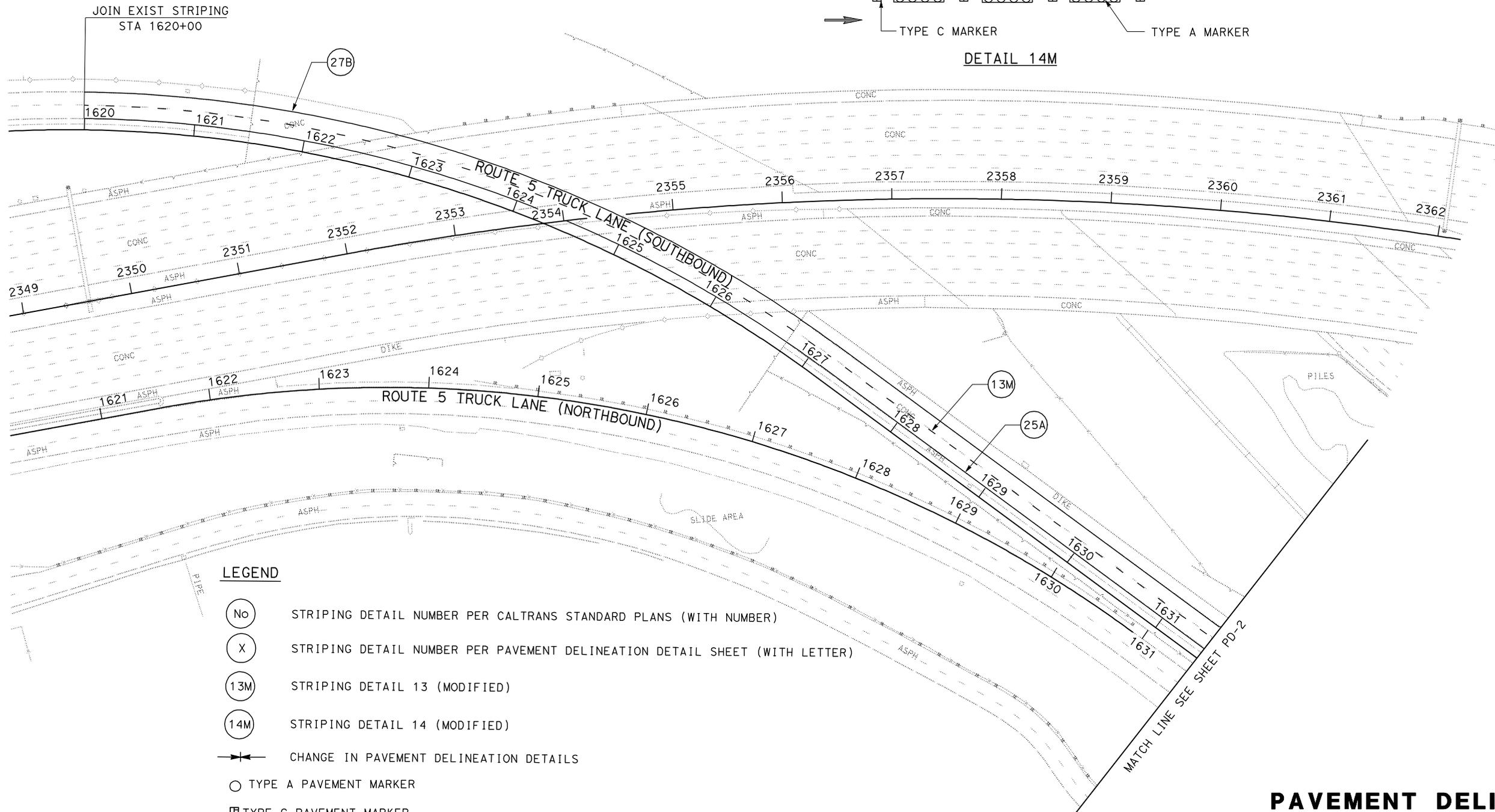
**DETAIL 14M**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	21	61

REGISTERED CIVIL ENGINEER DATE  
 10-24-07  
 PLANS APPROVAL DATE

**E. HERRERA**  
 No. 67603  
 Exp. 6-30-09  
 CIVIL  
 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.



**LEGEND**

- (No) STRIPING DETAIL NUMBER PER CALTRANS STANDARD PLANS (WITH NUMBER)
- (X) STRIPING DETAIL NUMBER PER PAVEMENT DELINEATION DETAIL SHEET (WITH LETTER)
- (13M) STRIPING DETAIL 13 (MODIFIED)
- (14M) STRIPING DETAIL 14 (MODIFIED)
- ↔ CHANGE IN PAVEMENT DELINEATION DETAILS
- TYPE A PAVEMENT MARKER
- ▣ TYPE C PAVEMENT MARKER
- TYPE G PAVEMENT MARKER
- ▬ 4" WHITE THERMOPLASTIC STRIPE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR  
 EDGAR HERRERA  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 V.N.  
 REVISED BY  
 DATE REVISED

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY



USERNAME => trmikesl  
 DGN FILE => 71x840na001.dgn

CU 07380 EA 1X8401

**PAVEMENT DELINEATION AND SIGN PLAN**

SCALE: 1"=50'

**PD-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	22	61

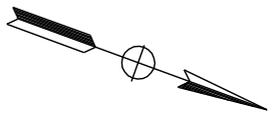
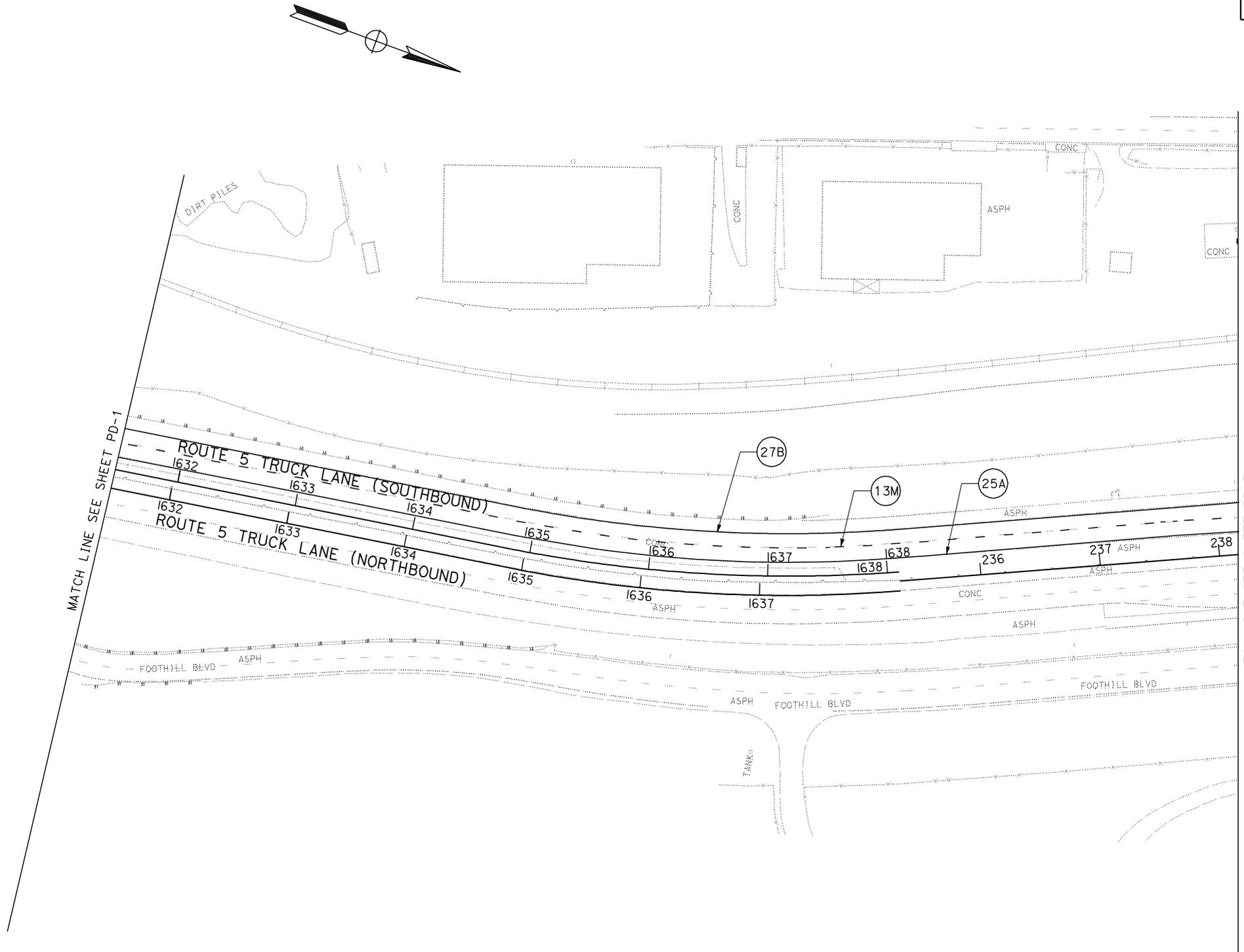
<i>Edgar Herrera</i>	
REGISTERED CIVIL ENGINEER DATE	
10-24-07	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	
E. HERRERA	
No. 67603	
Exp. 3-30-09	
CIVIL	
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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	V.N.	REVISED BY
<b>Caltrans</b> TRAFFIC DESIGN	EDGAR HERRERA	CHECKED BY		DATE REVISED



# PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

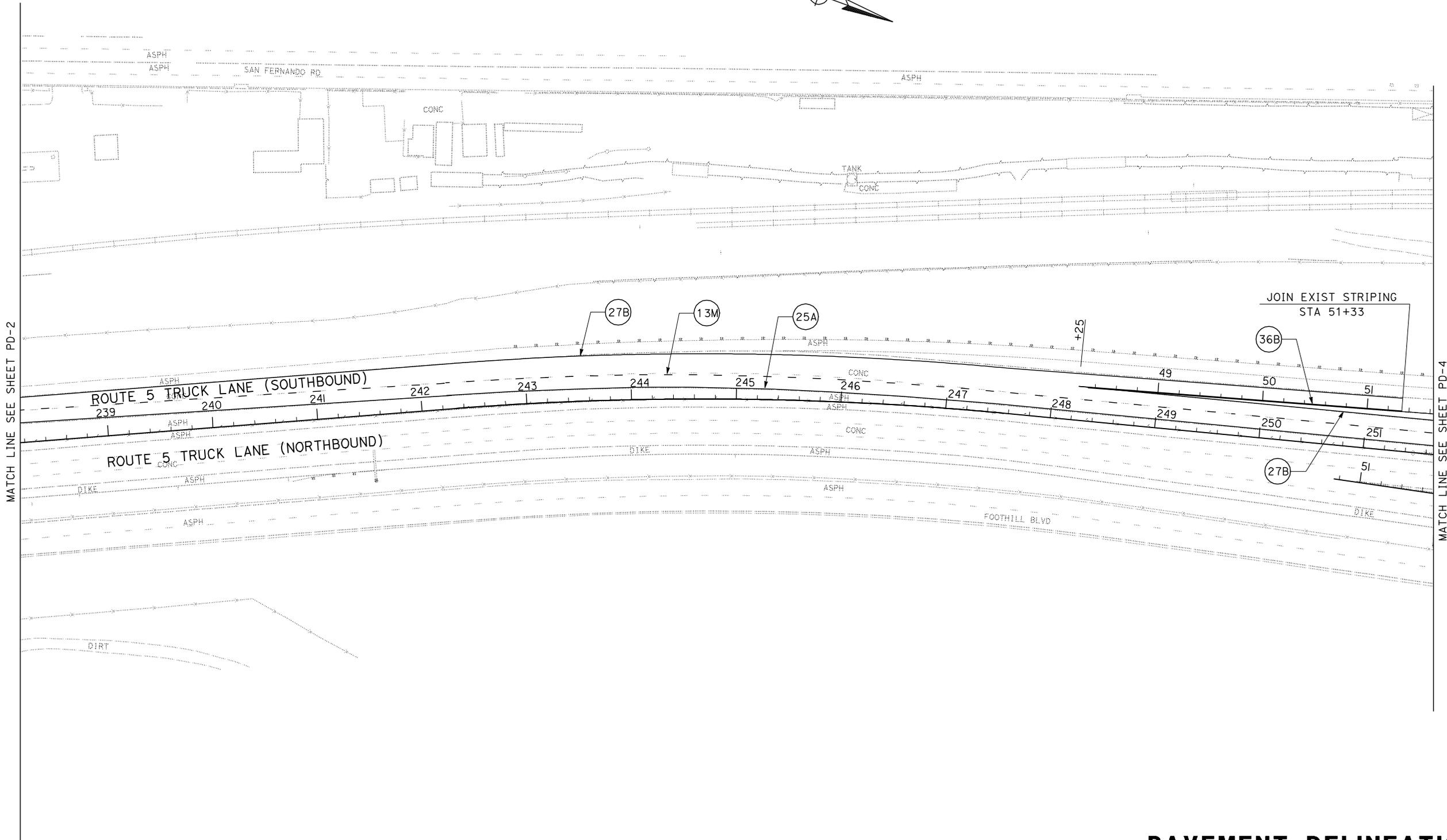
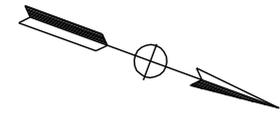
**PD-2**

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	23	61

<i>Edgar Herrera</i> REGISTERED CIVIL ENGINEER DATE	
10-24-07 PLANS APPROVAL DATE	
<small>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.</small>	



MATCH LINE SEE SHEET PD-2

MATCH LINE SEE SHEET PD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>Edgarr</b> <b>TRANS</b> <b>TRAFFIC DESIGN</b>	FUNCTIONAL SUPERVISOR EDGAR HERRERA	CALCULATED- DESIGNED BY	CHECKED BY	V.N.	REVISED BY	DATE REVISED

## PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

**PD-3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	24	61

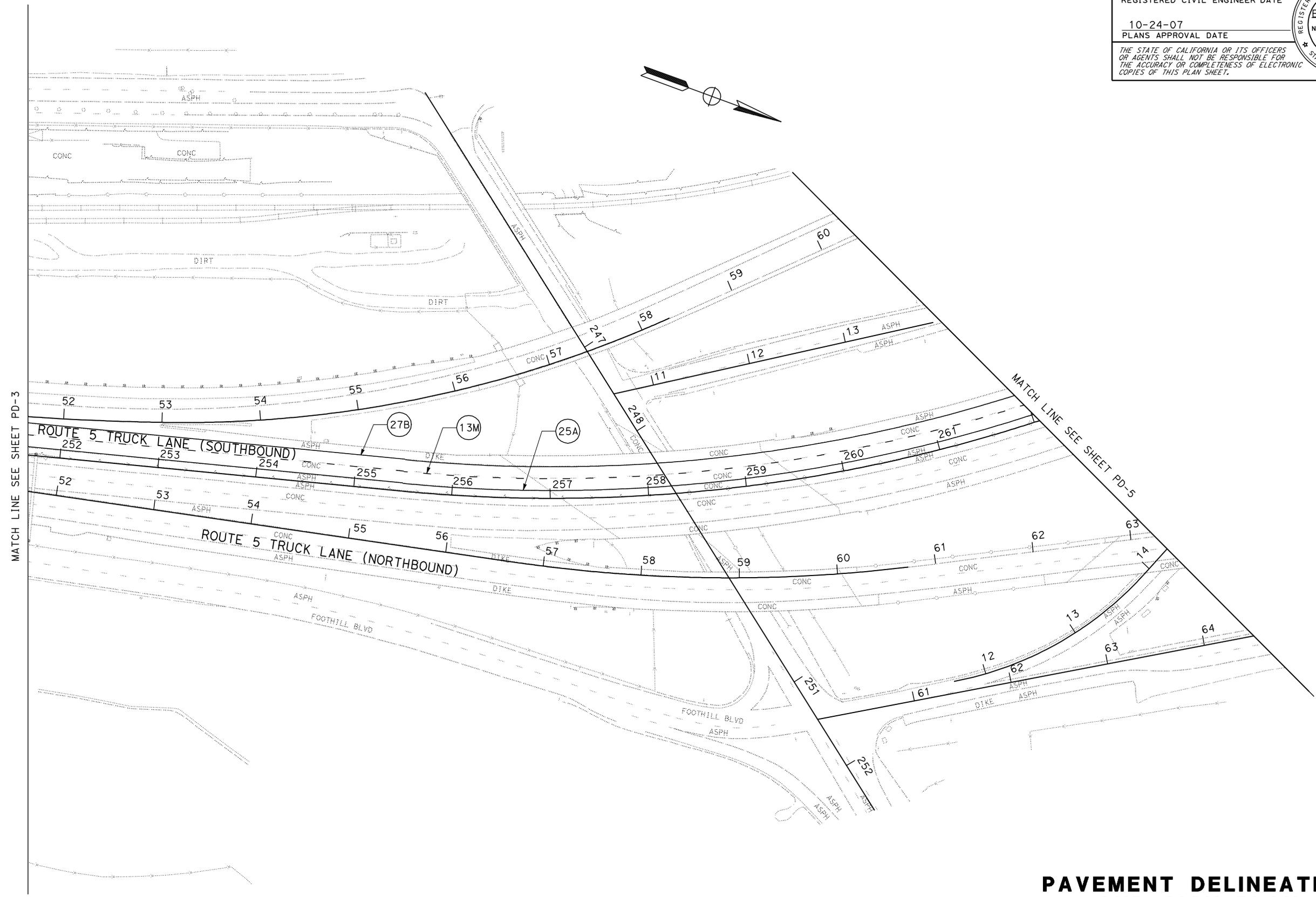
  

<i>Edgar Herrera</i>	
REGISTERED CIVIL ENGINEER DATE	
10-24-07	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
<b>F. HERRERA</b>
No. 67603
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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<b>Caltrans</b> <b>TRAFFIC DESIGN</b>	EDGAR HERRERA	CHECKED BY		DATE REVISED

# PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

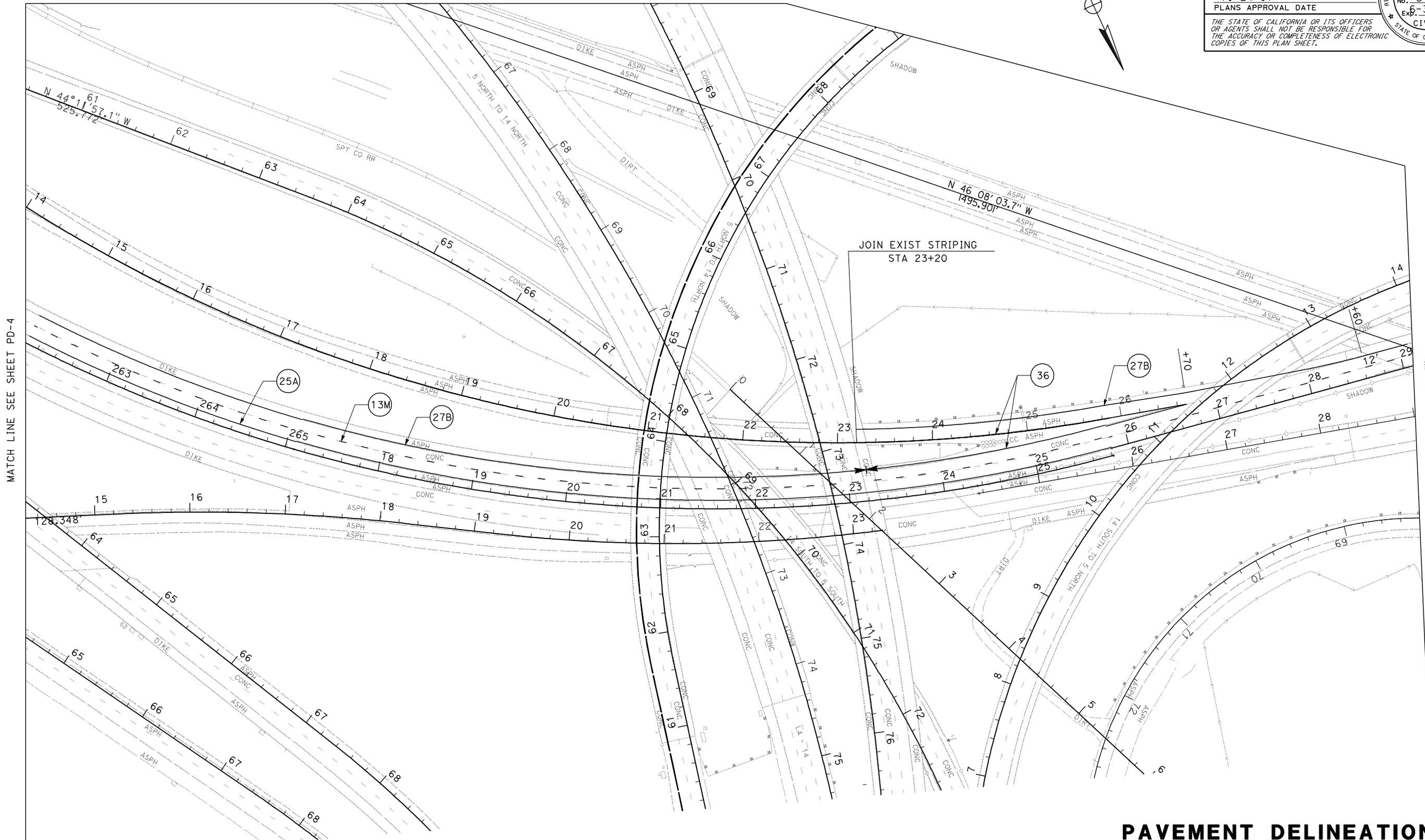
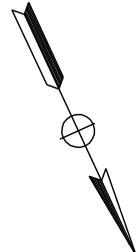
**PD-4**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	25	61

REGISTERED CIVIL ENGINEER DATE  
 10-24-07  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**E. HERRERA**  
 No. 67603  
 Exp. 6-30-09  
 CIVIL  
 STATE OF CALIFORNIA

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# PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

**PD-5**

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AN SIGN WORK ONLY

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<b>Caltrans</b> <b>TRAFFIC DESIGN</b>	EDGAR HERRERA	CHECKED BY	DATE REVISED
V.N.			

BORDER LAST REVISED 3/1/2007



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DGN FILE => 71x840na005.dgn

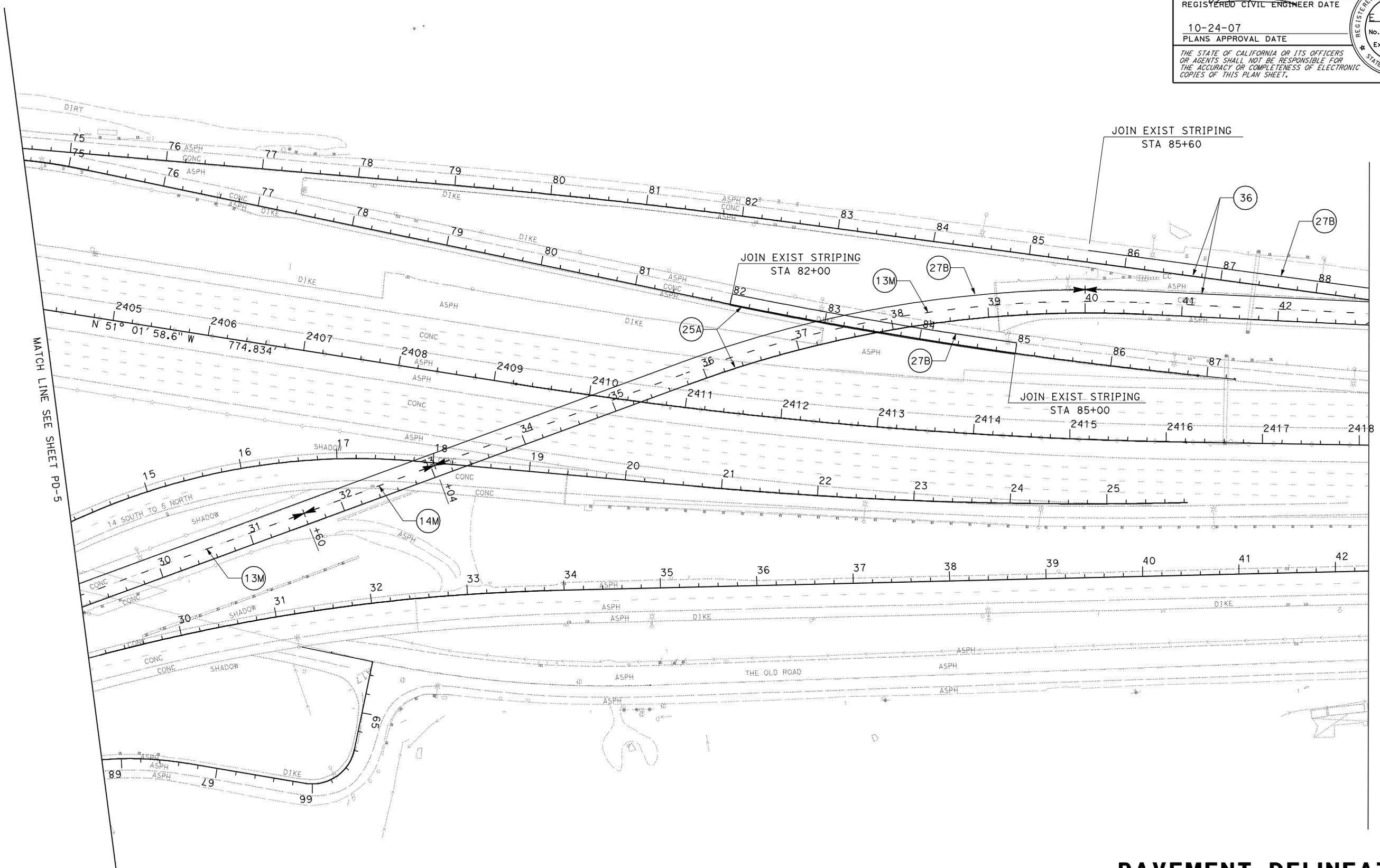
CU 07380

EA 1X8401

LAST REVISION: 10-22-07  
DATE PLOTTED => 28-OCT-2007  
TIME PLOTTED => 14:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	26	61
 REGISTERED CIVIL ENGINEER DATE 10-24-07 PLANS APPROVAL DATE					
					
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	V.N.	REVISED BY
<b>Caltrans</b> <b>TRAFFIC DESIGN</b>	EDGAR HERRERA	CHECKED BY		DATE REVISED



MATCH LINE SEE SHEET PD-5

MATCH LINE SEE SHEET PD-7

# PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

**PD-6**

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

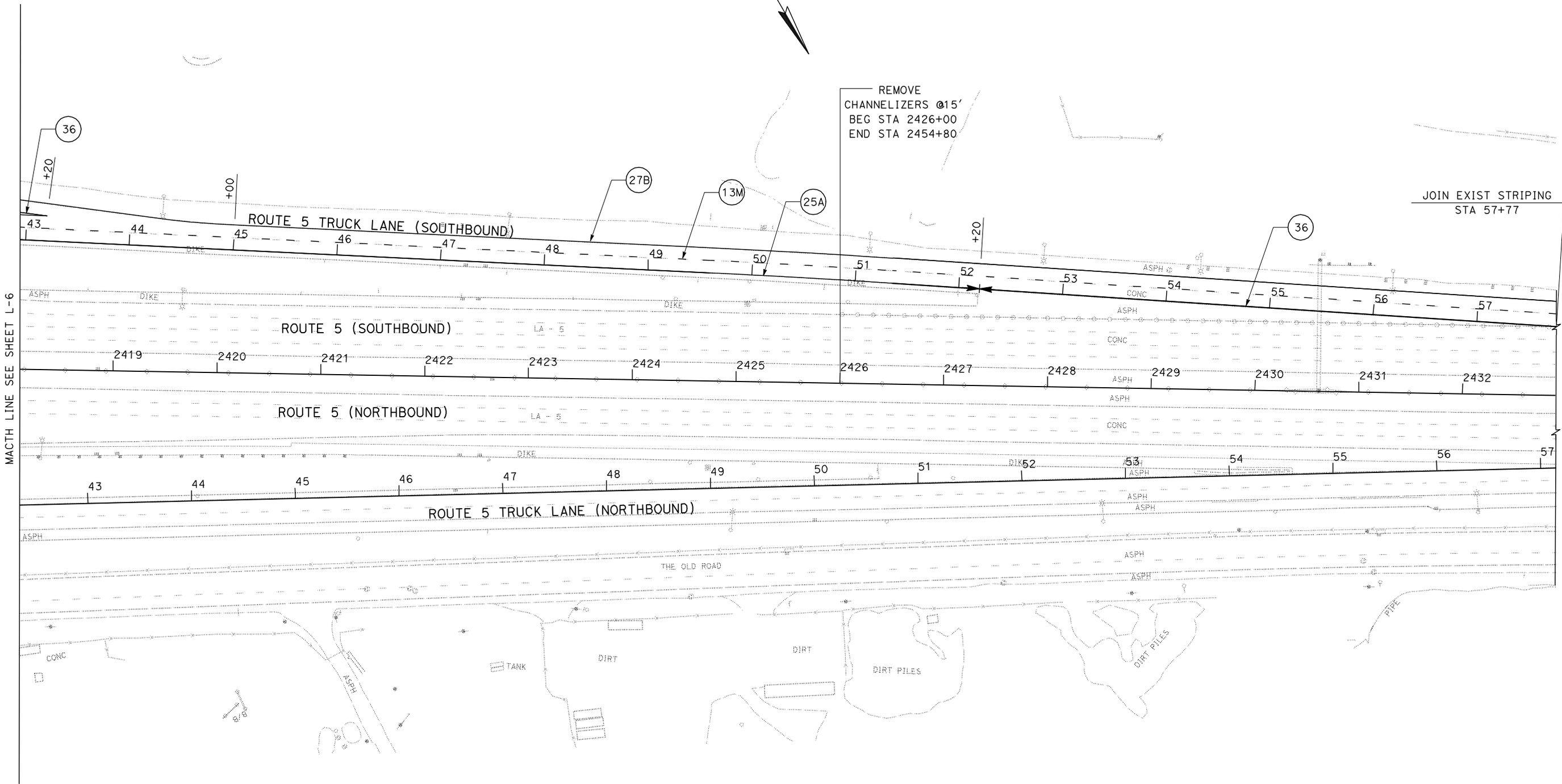


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	27	61

Edg. Herrera  
 REGISTERED CIVIL ENGINEER DATE  
 10-24-07  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 E. HERRERA  
 No. 67603  
 Exp. 6-30-09  
 CIVIL  
 STATE OF CALIFORNIA

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# PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PD-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Edg. Herrera** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR  
 EDGAR HERRERA  
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 V.N.  
 REVISED BY  
 DATE REVISED

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

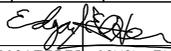
FUNCTIONAL SUPERVISOR  
 EDGAR HERRERA

CALCULATED-DESIGNED BY  
 CHECKED BY

V.N.

REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	28	61

  
 REGISTERED CIVIL ENGINEER DATE  
 10-24-07  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 E. HERRERA  
 No. 67603  
 Exp. 6-30-09  
 CIVIL  
 STATE OF CALIFORNIA

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SHEET No.	THERMOPLASTIC TRAFFIC STRIPE						PAVEMENT MARKER				
	DETAIL 25A 4 INCH YELLOW STRIPE	DETAIL 27B 4 INCH WHITE STRIPE	DETAIL 13M 4 INCH WHITE (BROKEN (36-12)	DETAIL 14M 4 INCH WHITE (BROKEN (36-12)	DETAIL 36 8 INCH WHITE STRIPE	DETAIL 36B 8 INCH WHITE STRIPE	RETROREFLECTIVE			NON-REFLECTIVE TYPE A	REMOVE CHANNELIZERS
							TYPE C	TYPE G	TYPE H		
	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA
PD-1	1147	1147	1147					24	48	96	
PD-2	954	954	954					20	40	79	
PD-3	1352	1318	1352			308		41	56	113	
PD-4	1033	1033	1033					22	43	86	
PD-5	1511	1511	1511		700			61	63	126	
PD-6	1683	1684	1199	144	588		4	50	61	112	
PD-7	926	1473	1473		609			56	39	124	192
SUBTOTAL	8606	9120	8669	144	1897	308	4	274	350	736	192
TOTAL	17726		8813		2205		628			736	192

**PAVEMENT DELINEATION QUANTITIES**  
**PDQ-1**



NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

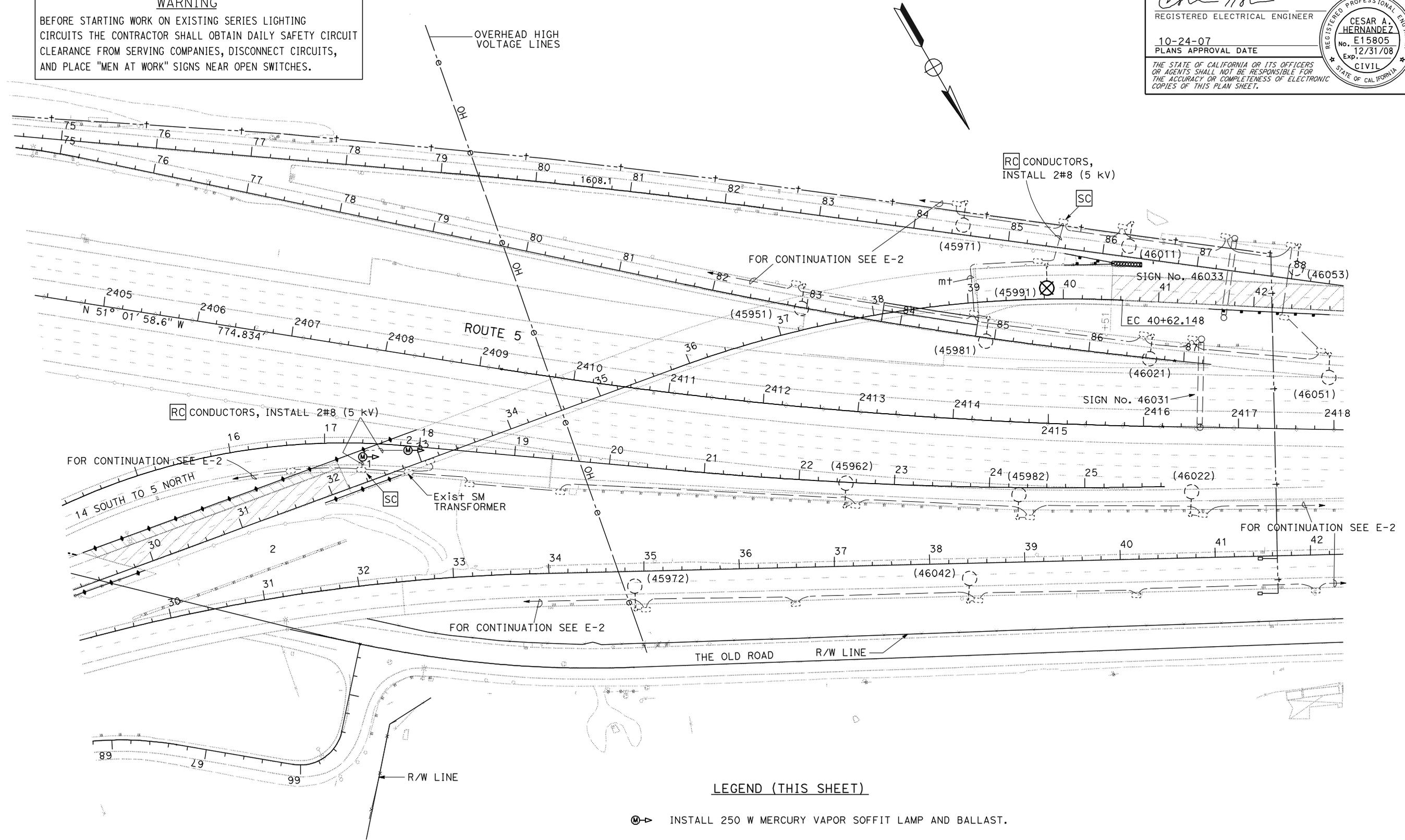
**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR SHALL OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	30	61

REGISTERED ELECTRICAL ENGINEER  
 CESAR A. HERNANDEZ  
 No. E15805  
 Exp. 12/31/08  
 CIVIL

10-24-07  
 PLANS APPROVAL DATE

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**LEGEND (THIS SHEET)**

- ⊙➤ INSTALL 250 W MERCURY VAPOR SOFFIT LAMP AND BALLAST.
- ⊗ INSTALL 700 W MERCURY VAPOR LUMINAIRE AND BALLAST.

**MODIFY LIGHTING AND SIGN ILLUMINATION**

SCALE: 1"=50'

**E-1**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trmikes1  
 DGN FILE => 71x840ua001.dgn

CU 07381

EA 1X8401

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

FUNCTIONAL SUPERVISOR  
 YI TSAU

CALCULATED-DESIGNED BY  
 CHECKED BY

CEGAR HERNANDEZ  
 K. P.

REVISED BY  
 DATE REVISED

BORDER LAST REVISED 3/1/2007

LAST REVISION | DATE PLOTTED => 28-OCT-2007  
 00-00-00 | TIME PLOTTED => 14:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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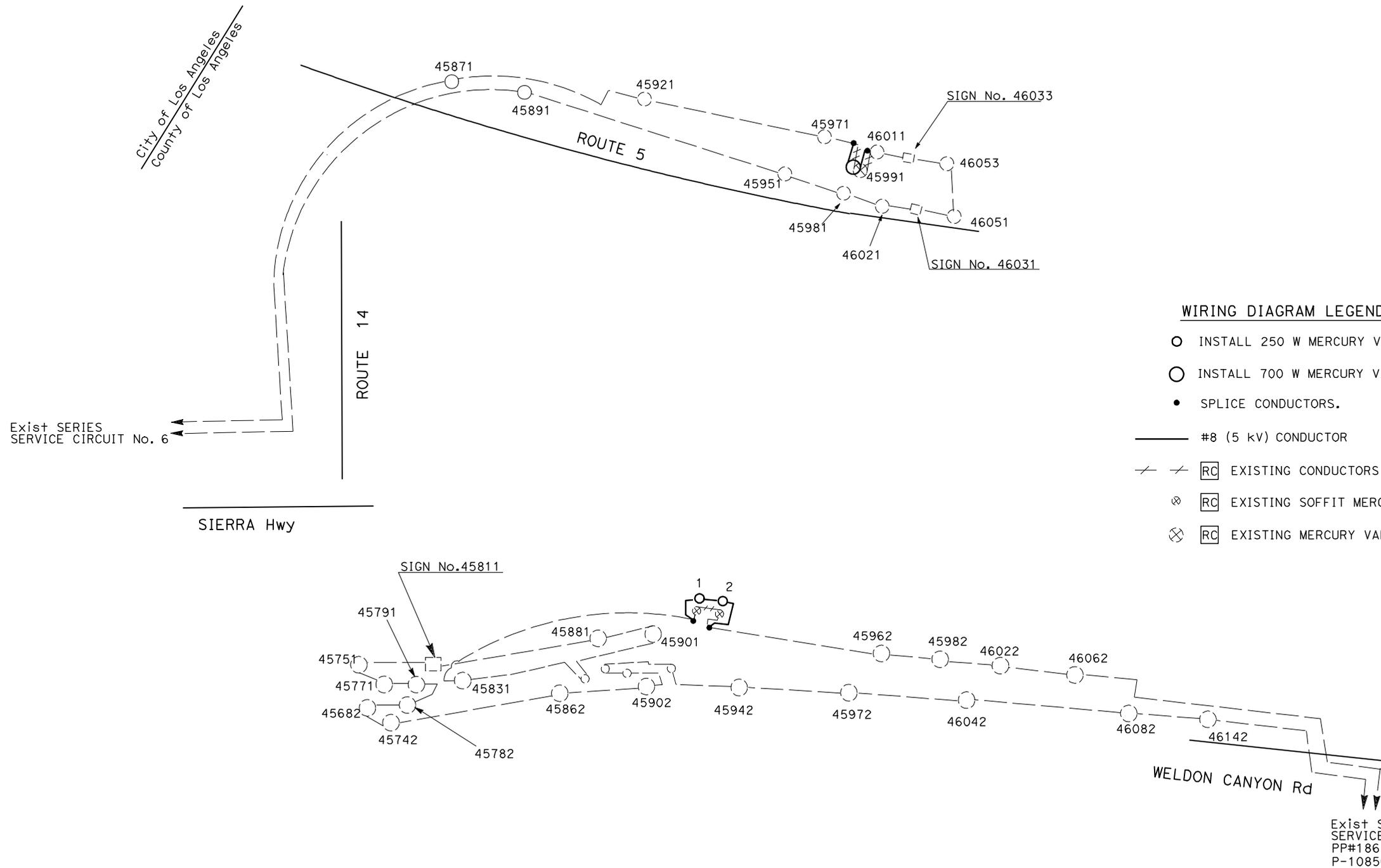
REGISTERED ELECTRICAL ENGINEER	
10-24-07	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER CESAR A. HERNANDEZ No. E15805 Exp. 12/31/08 ELEC STATE OF CALIFORNIA
--

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**WARNING**  
 BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS THE CONTRACTOR SHALL OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS, AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES.



**WIRING DIAGRAM LEGEND:**

- INSTALL 250 W MERCURY VAPOR LAMP AND BALLAST
- INSTALL 700 W MERCURY VAPOR LAMP AND BALLAST
- SPLICE CONDUCTORS.
- #8 (5 kV) CONDUCTOR
- - - RC EXISTING CONDUCTORS (5 kV)
- ⊗ RC EXISTING SOFFIT MERCURY LAMP AND BALLAST
- ⊗ RC EXISTING MERCURY VAPOR LAMP

**MODIFY LIGHTING AND SIGN ILLUMINATION  
 (WIRING DIAGRAM)**

SCALE: 1"=50'

**E-2**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

RELATIVE BORDER SCALE  
 IS IN INCHES



USERNAME => trmikes1  
 DGN FILE => 71x840ua002.dgn

CU 07381

EA 1X8401

BORDER LAST REVISED 3/1/2007

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

FUNCTIONAL SUPERVISOR  
 YI TSAU

CALCULATED-DESIGNED BY  
 CHECKED BY

CESAR HERNANDEZ  
 K. P.

REVISED BY  
 DATE REVISED

LAST REVISION | DATE PLOTTED => 28-OCT-2007  
 00-00-00 | TIME PLOTTED => 14:01

PROJECT NOTE: ( THIS SHEET)

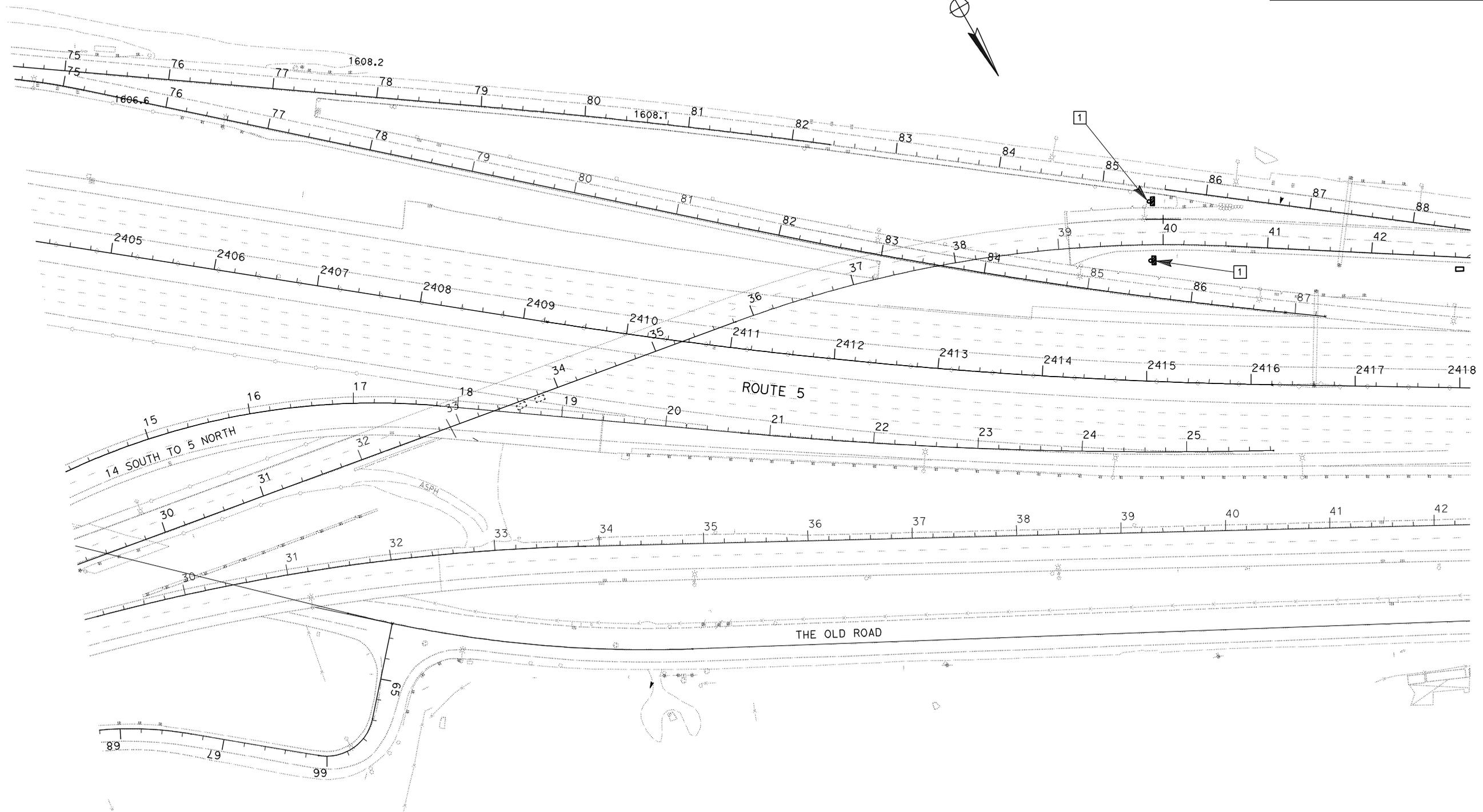
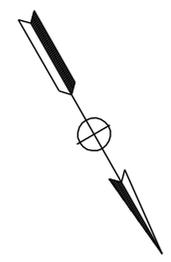
- 1 INSTALL SOLAR POWERED VEHICLE SPEED FEEDBACK SIGN ON TYPE 15TS POLE.  
SEE E-4 FOR SIGN DETAILS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	32	61

  
 REGISTERED ELECTRICAL ENGINEER  
 10-24-07  
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: YI TSAU  
 CALCULATED-DESIGNED BY: YI TSAU  
 CHECKED BY: YI TSAU  
 C. BURCIAGA  
 YI TSAU  
 REVISED BY: YI TSAU  
 DATE REVISED:

**VEHICLE SPEED FEEDBACK SYSTEM**  
SCALE: 1"=50'

THIS PLAN ACCURATE FOR ELECTRICAL WORKONLY



USERNAME => trmikesl  
DGN FILE => 71x840Ua003.dgn

CU 07380

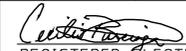
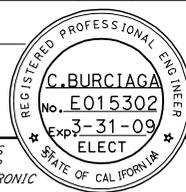
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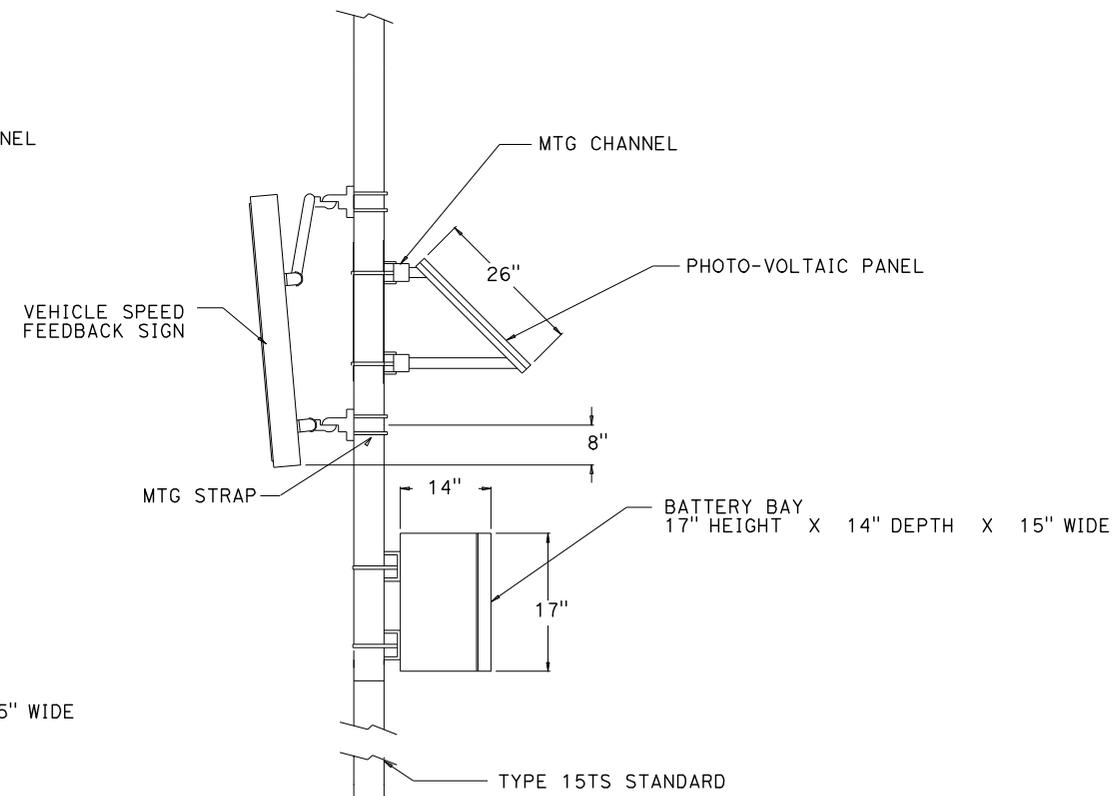
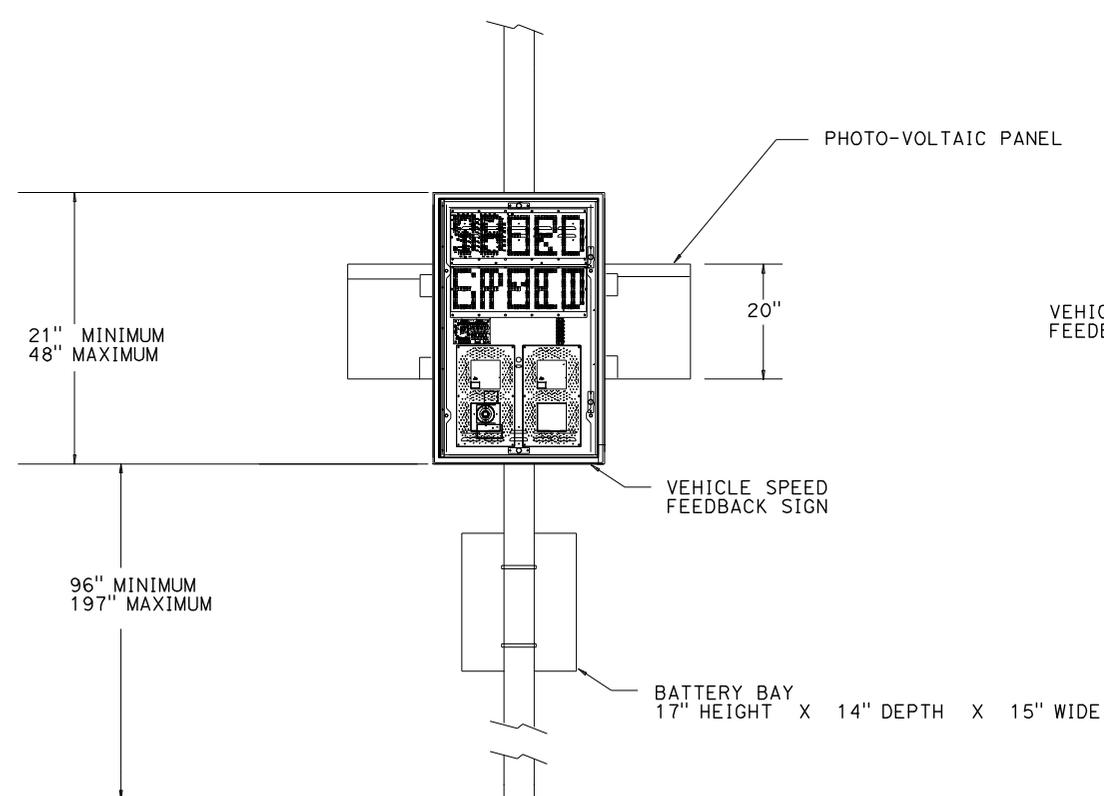
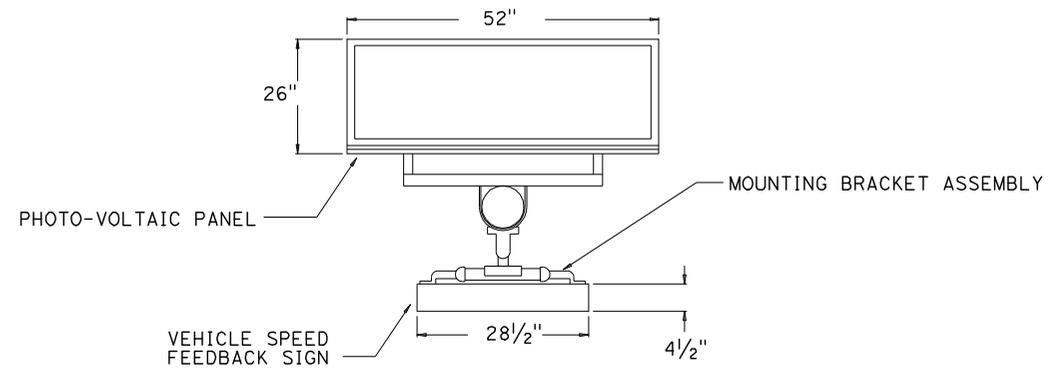
BORDER LAST REVISED 3/1/2007

LAST REVISION | DATE PLOTTED => 28-OCT-2007  
 00-00-00 | TIME PLOTTED => 14:08

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	33	61

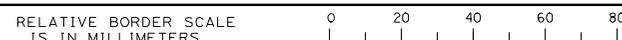
 REGISTERED ELECTRICAL ENGINEER		
10-24-07 PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.</small>		



# VEHICLE SPEED FEEDBACK SYSTEM

SCALE: 1"=50'

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY



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DGN FILE => 71x840ud004.dgn

CU 07380

EA 1X8401

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
**TRAFFIC DESIGN**  
 FUNCTIONAL SUPERVISOR  
 YI TSAU  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 C. BURCIAGA  
 YI TSAU  
 REVISED BY  
 DATE REVISED

BORDER LAST REVISED 3/1/2007

LAST REVISION DATE PLOTTED => 28-OCT-2007  
 00-00-00 TIME PLOTTED => 14:08

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07	LA	5	C45.4/C46.1	34	61

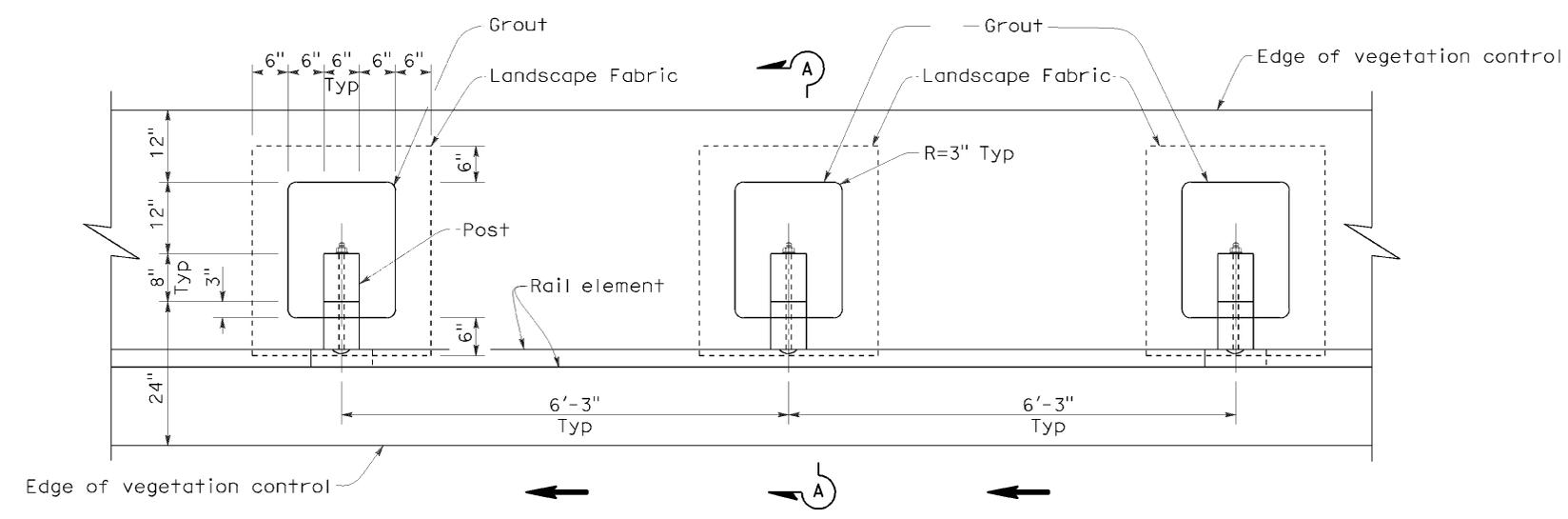
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

October 20, 2006  
PLANS APPROVAL DATE

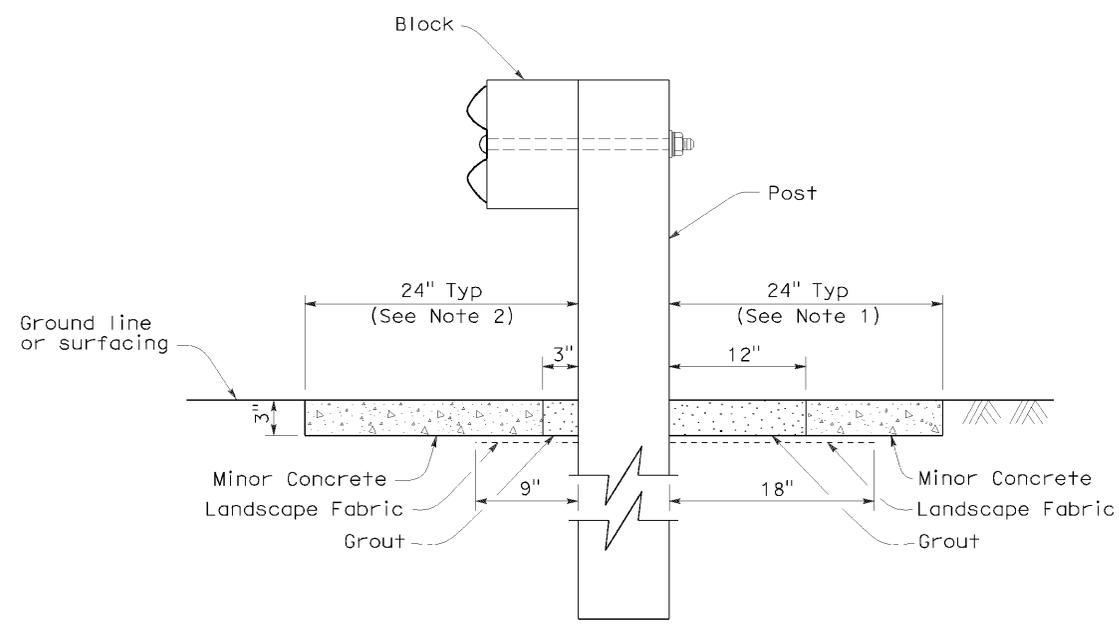
*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-07  
CIVIL  
STATE OF CALIFORNIA

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To accompany plans dated 10-24-07



PLAN



SECTION A-A

NOTES:

1. Where the distance between back of post and hinge point is less than 24", vegetation control to be constructed flush with the back edge of the post.
2. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
3. Direction of adjacent traffic indicated by ← .

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL VEGETATION CONTROL  
STANDARD RAILING SECTION**

NO SCALE

NSP A77C5 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD  
PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP A77C5**

2006 NEW STANDARD PLAN NSP A77C5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	35	61

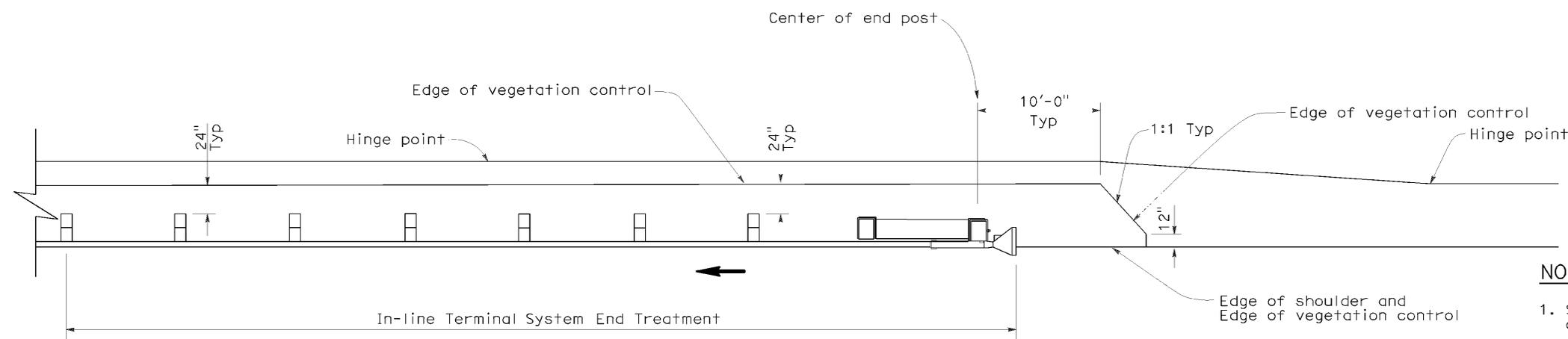
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

October 20, 2006  
PLANS APPROVAL DATE

*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-07  
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STATE OF CALIFORNIA

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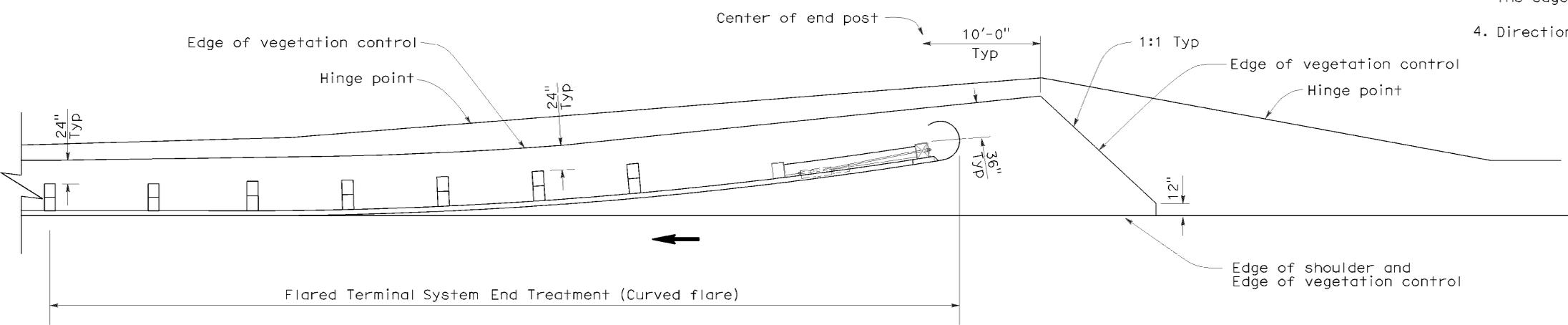
To accompany plans dated 10-24-07



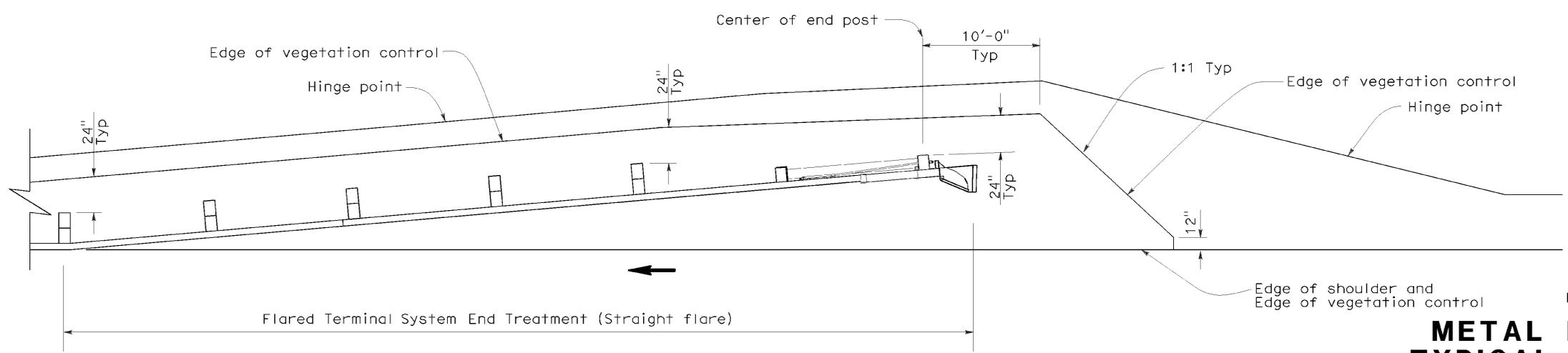
PLAN

**NOTES:**

1. See New Standard Plan NSP A77C5 for additional vegetation control details.
2. Where the distance between back of post and hinge point is less than 24", vegetation control to be constructed flush with the back edge of the post.
3. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
4. Direction of adjacent traffic indicated by ←.



PLAN



PLAN

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING  
TYPICAL VEGETATION CONTROL  
FOR TERMINAL SYSTEM END TREATMENTS**

NO SCALE  
NSP A77C6 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD  
PLANS BOOK DATED MAY 2006.

**2006 NEW STANDARD PLAN NSP A77C6**

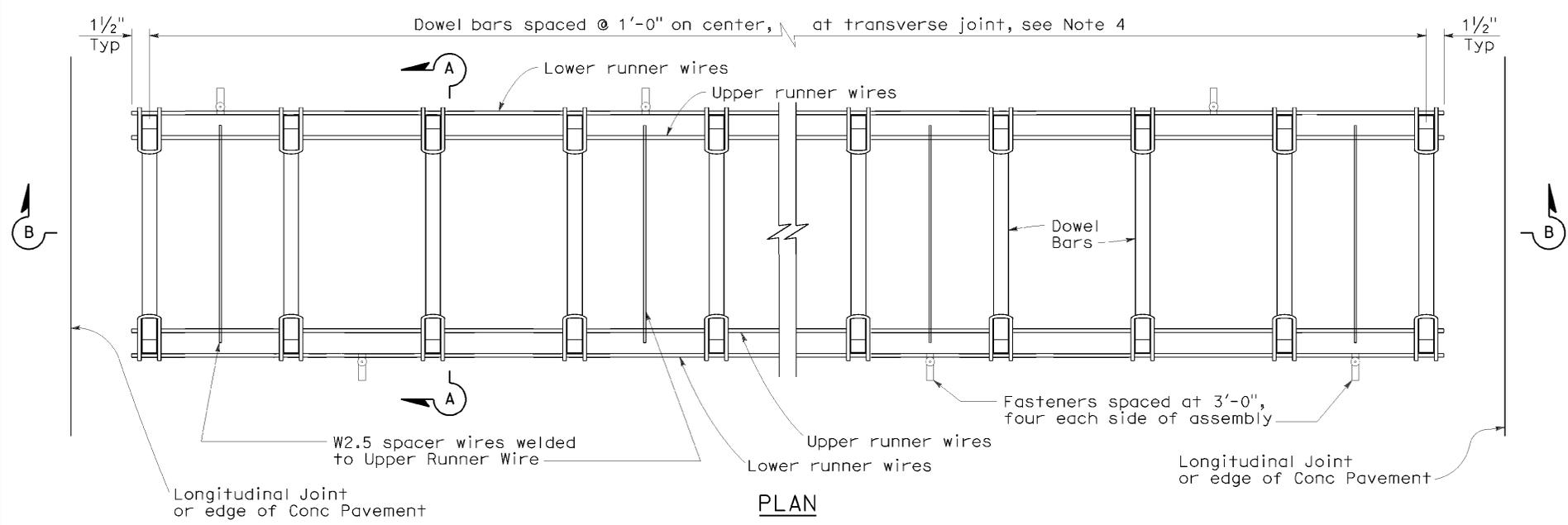
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	36	61

William K. Farnbach  
 REGISTERED CIVIL ENGINEER  
 November 17, 2006  
 PLANS APPROVAL DATE

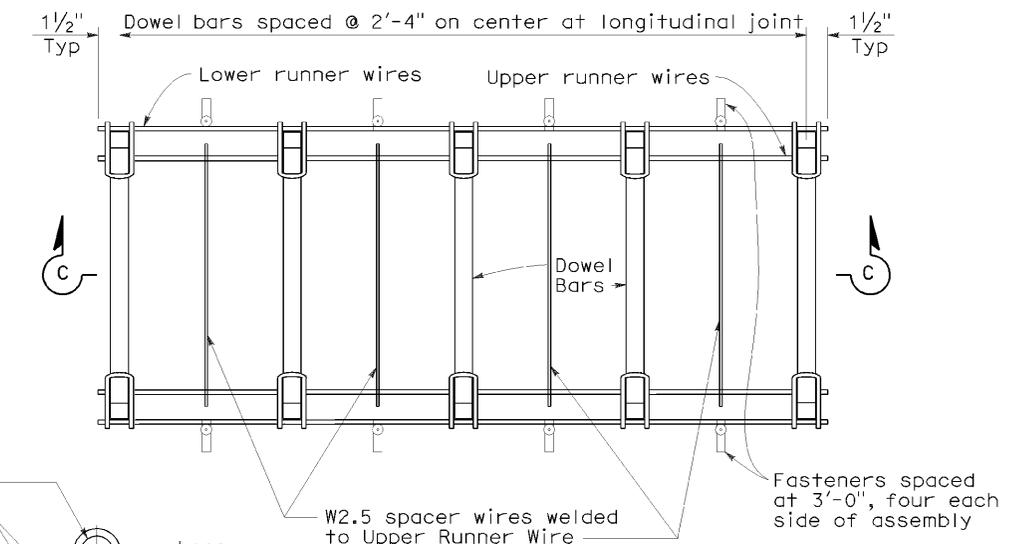
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REGISTERED PROFESSIONAL ENGINEER  
 William K. Farnbach  
 No. C49042  
 Exp. 9-30-08  
 CIVIL  
 STATE OF CALIFORNIA

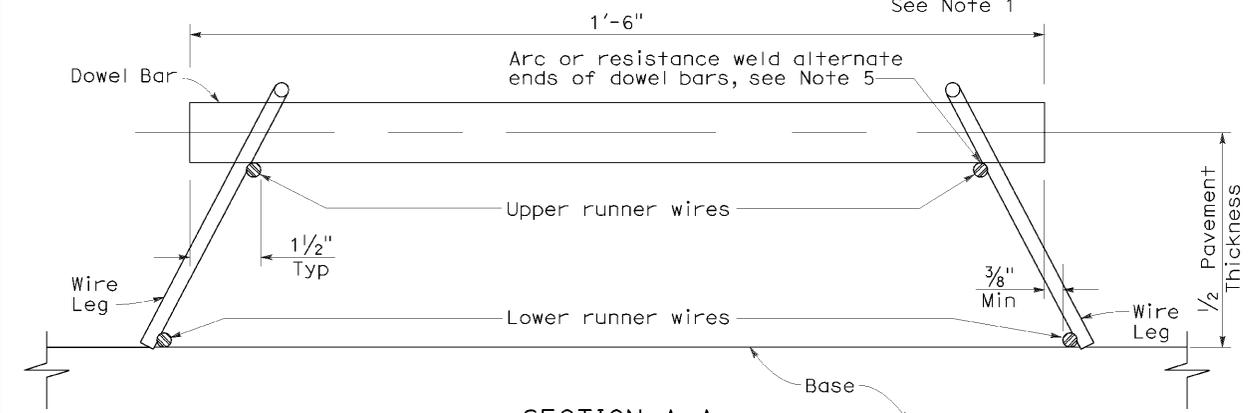
To accompany plans dated 10-24-07



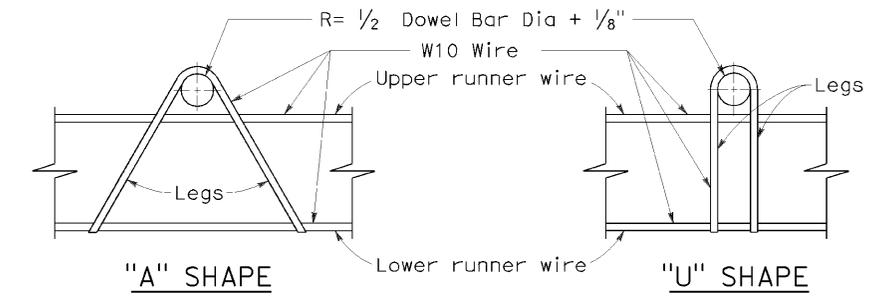
**PLAN**  
**DOWEL BAR BASKET**  
**(TRANSVERSE JOINT)**  
 See Note 1



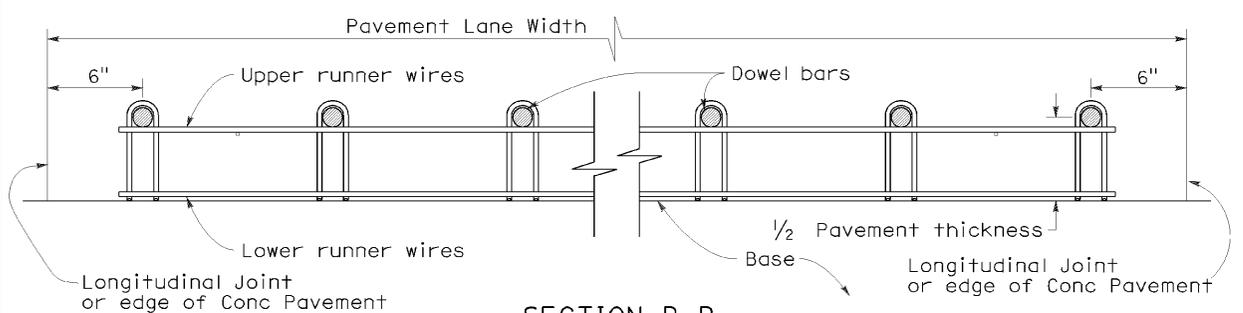
**PLAN**  
**DOWEL BAR BASKET**  
**(LONGITUDINAL JOINT)**  
 See Note 1



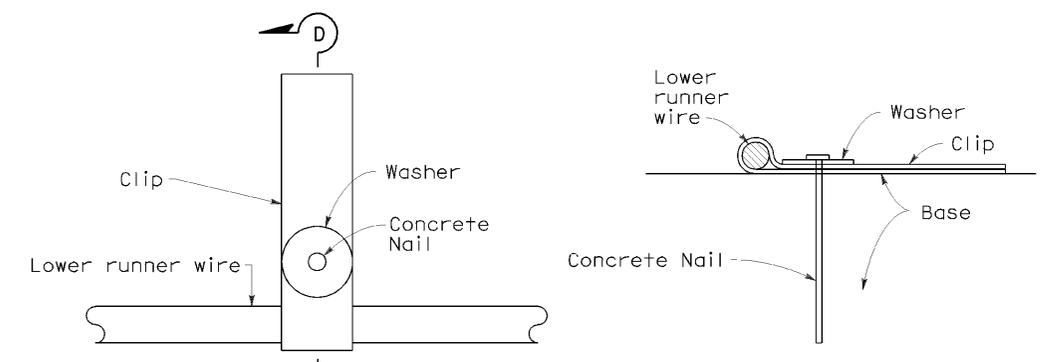
SECTION A-A



ASSEMBLY FRAME DETAILS



SECTION B-B  
See Note 1



FASTENER DETAIL

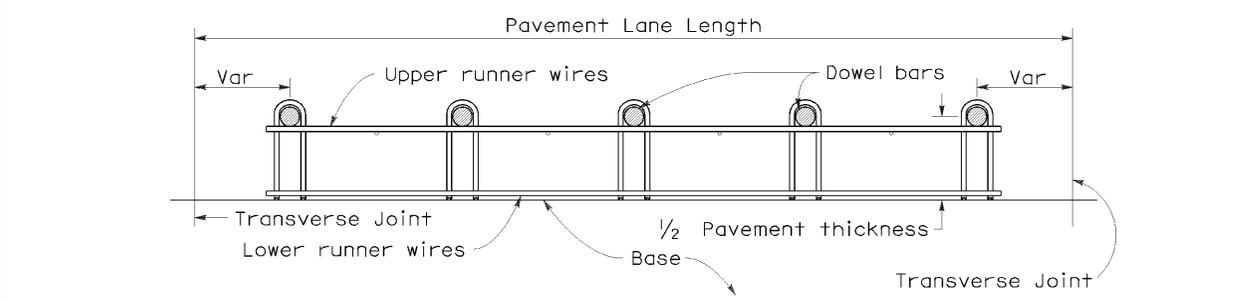
NOTES:

- "U" frame shape assembly shown. "U" frame shape or "A" frame shape are acceptable.
- Wire sizes shown are minimum required.
- All wire intersections are to be resistance welded.
- Use tie bar spacing for longitudinal dowel bar locations. See Std Plans P1 and P2, and Revised Std Plan RSP P3 for tie bar requirements.
- Weld may be at top or bottom of dowel bar.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**CONCRETE PAVEMENT-**  
**DOWEL BAR BASKET**  
**DETAILS**

NO SCALE



SECTION C-C  
See Notes 1 and 4

SECTION D-D

RSP P12 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN P12  
 DATED MAY 1, 2006 - PAGE 125 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP P12**

2006 REVISED STANDARD PLAN RSP P12

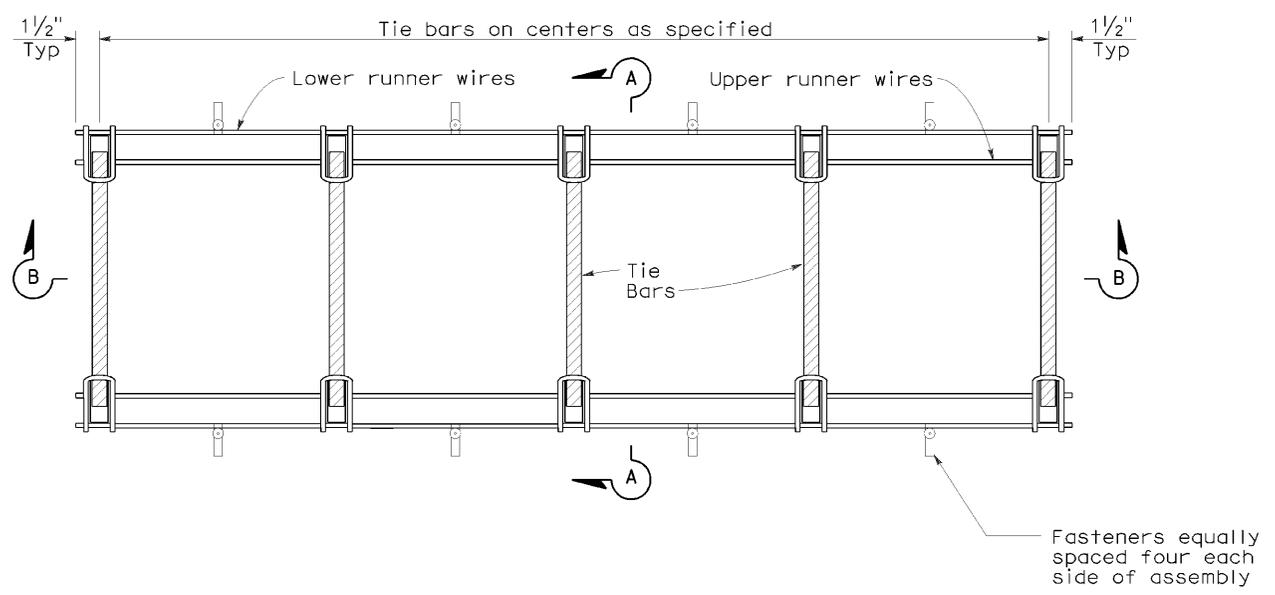
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	37	61

*William K. Farnbach*  
 REGISTERED CIVIL ENGINEER  
 November 17, 2006  
 PLANS APPROVAL DATE

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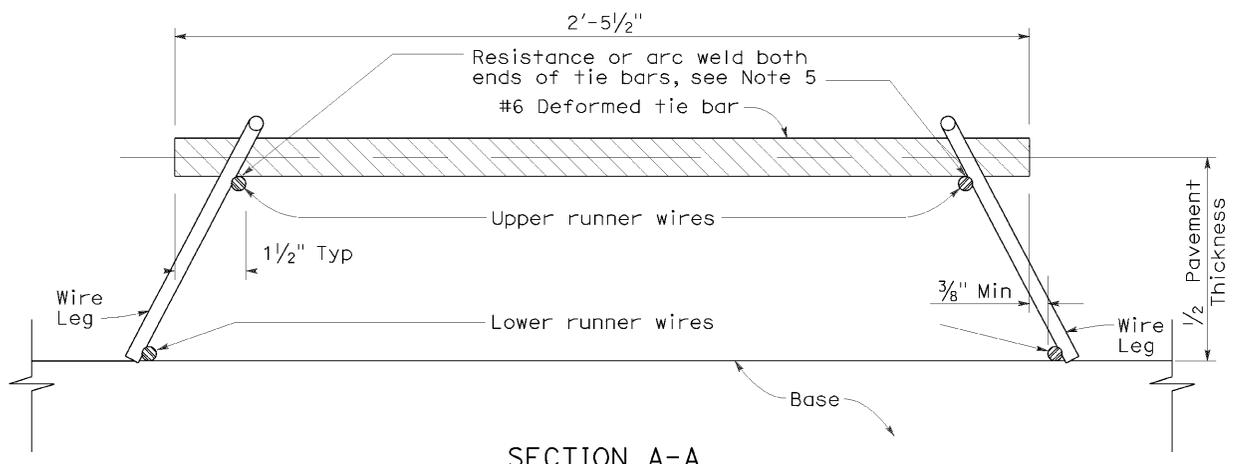
REGISTERED PROFESSIONAL ENGINEER  
 William K. Farnbach  
 No. C49042  
 Exp. 9-30-08  
 CIVIL  
 STATE OF CALIFORNIA

To accompany plans dated 10-24-07

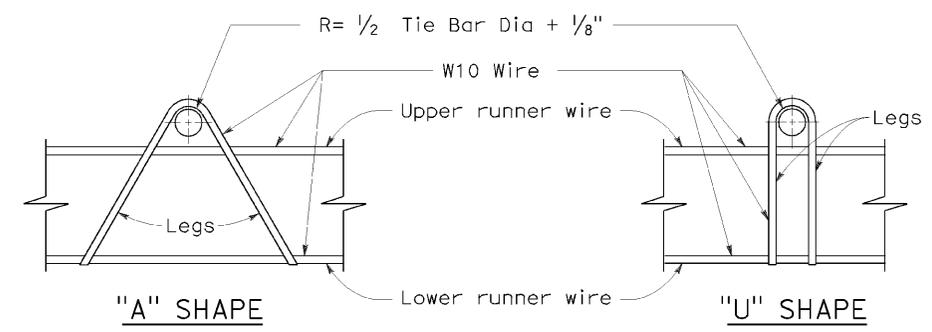


**PLAN**  
**TIE BAR BASKET**  
 (TIE BARS AT LONGITUDINAL JOINT)  
 See Note 1

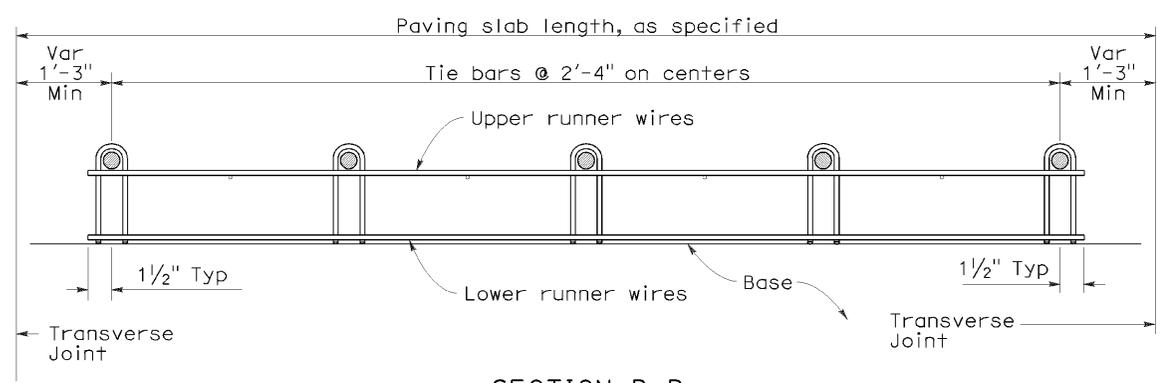
- NOTES:**
- "U" frame shape assembly shown. "U" frame shape or "A" frame shape are acceptable.
  - Wire sizes shown are minimum required.
  - All wire intersections are to be resistance welded.
  - Not for use on nondoweled skewed jointed plain concrete pavement.
  - Weld may be at top or bottom of tie bar.



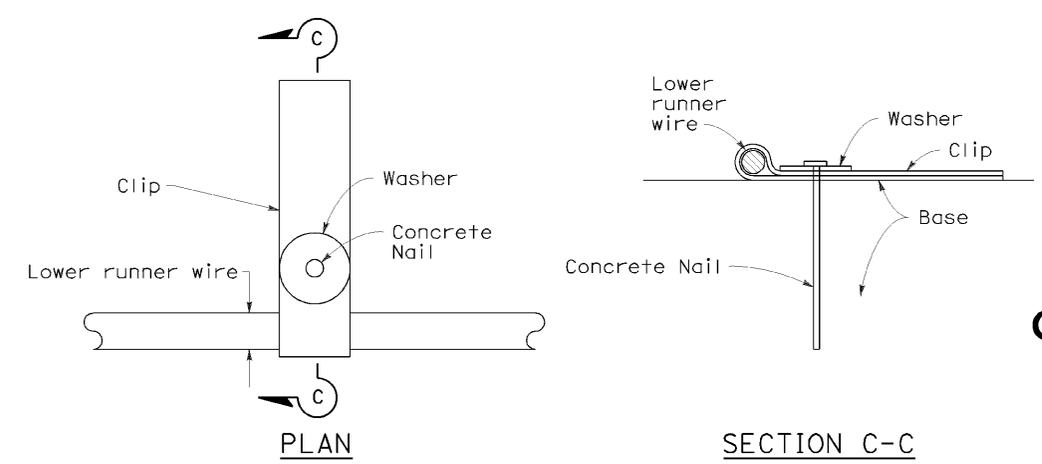
**SECTION A-A**



**ASSEMBLY FRAME DETAILS**



**SECTION B-B**  
 See Note 1



**FASTENER DETAIL**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**CONCRETE PAVEMENT -  
 TIE BAR BASKET  
 DETAILS**

NO SCALE

RSP P17 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN P17  
 DATED MAY 1, 2006 - PAGE 126 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP P17**

2006 REVISED STANDARD PLAN RSP P17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	38	61

William K. Farnbach  
 REGISTERED CIVIL ENGINEER  
 No. C49042  
 Exp. 9-30-08  
 CIVIL  
 STATE OF CALIFORNIA

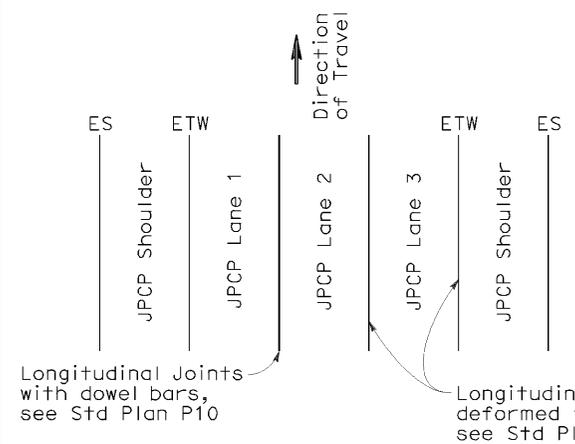
November 17, 2006  
 PLANS APPROVAL DATE

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.

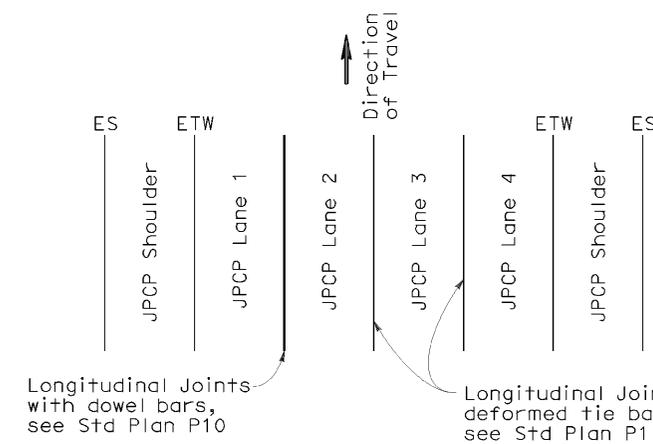
To accompany plans dated 10-24-07

**NOTES:**

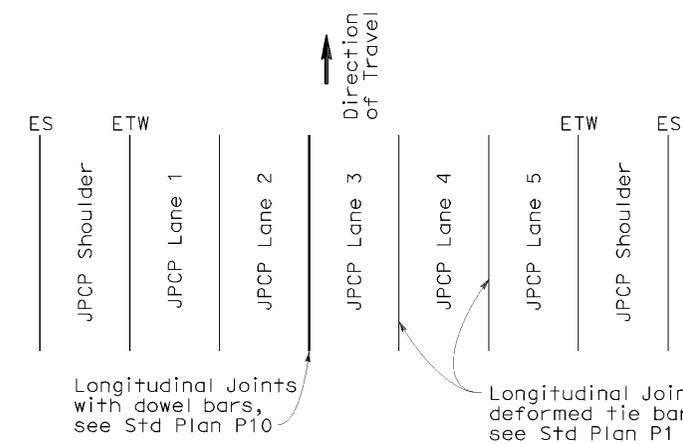
- Where Lean Concrete Base is not used as base material, the joint filler material used for the longitudinal isolation joint shall only extend to the bottom of the new concrete slab. See Detail A.
- Use  $\frac{5}{8}'' \pm \frac{1}{16}''$  dimension for silicone sealant.
- See Standard Plan P10 for longitudinal joint with dowel bars.



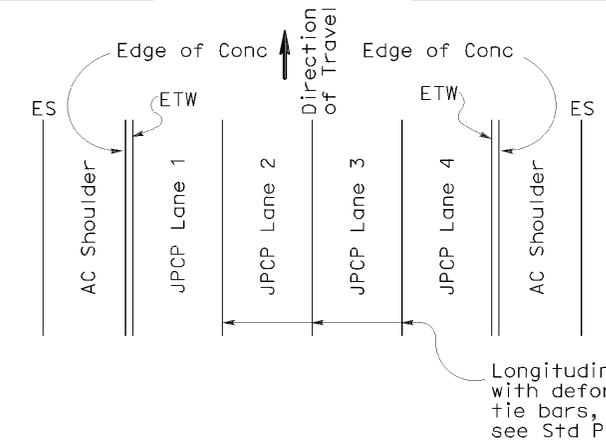
**3 LANES WITH CONCRETE SHOULDERS**  
PLAN



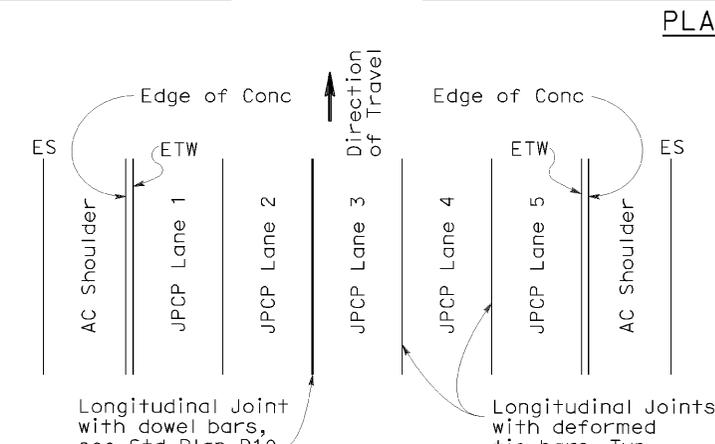
**4 LANES WITH CONCRETE SHOULDERS**  
PLAN



**5 LANES WITH CONCRETE SHOULDERS**  
PLAN



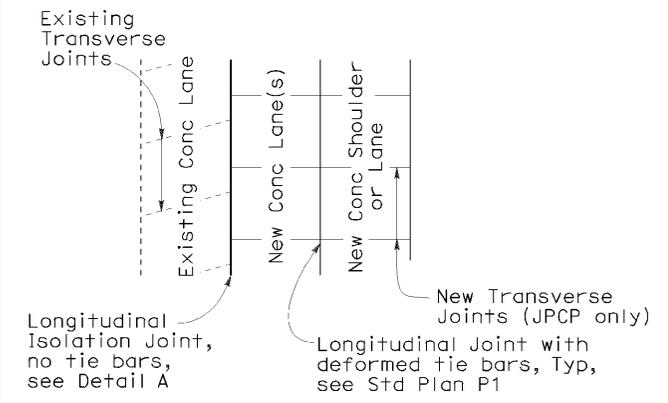
**4 LANES OR LESS WITH AC SHOULDERS**  
PLAN



**5 LANES WITH AC SHOULDERS**  
PLAN

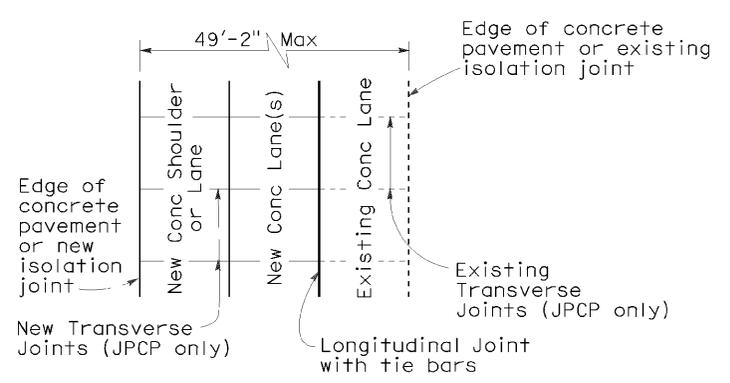
**NEW CONSTRUCTION**

Location of Longitudinal Joints  
Jointed Plain Concrete Pavement only



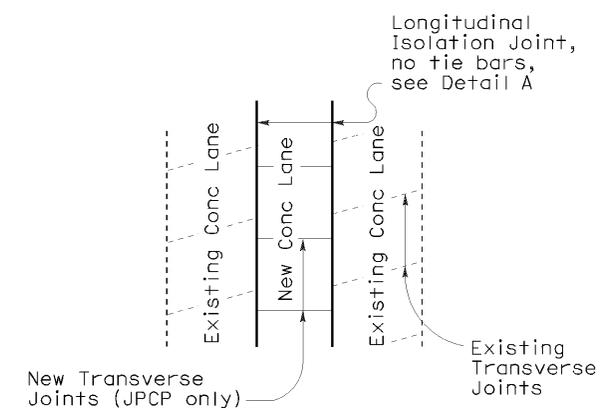
**CASE 1**  
PLAN

Transverse Joints do not align between new and existing



**CASE 2**  
PLAN

Transverse Joints align between new and existing

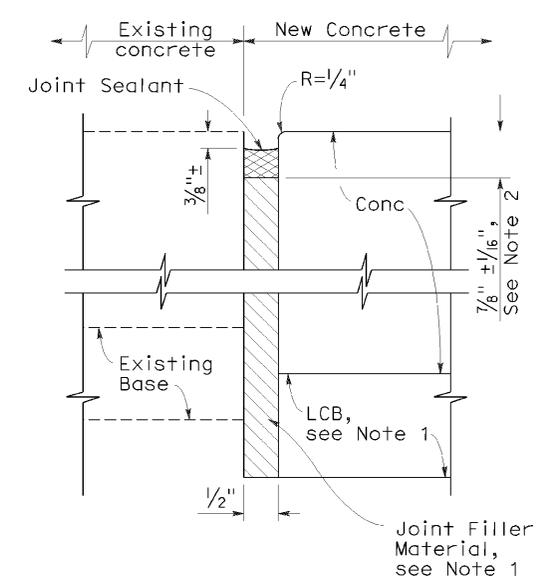


**CASE 3 (INTERIOR LANE REPLACEMENT)**  
PLAN

Transverse Joints do not align between new and existing

**LANE/SHOULDER ADDITION OR RECONSTRUCTION**

For JPCP and CRCP



**DETAIL A**  
**ISOLATION JOINT**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**CONCRETE PAVEMENT-  
LANE SCHEMATICS  
AND ISOLATION JOINT DETAIL**

NO SCALE

RSP P18 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN P18  
DATED MAY 1, 2006 - PAGE 127 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP P18**

2006 REVISED STANDARD PLAN RSP P18

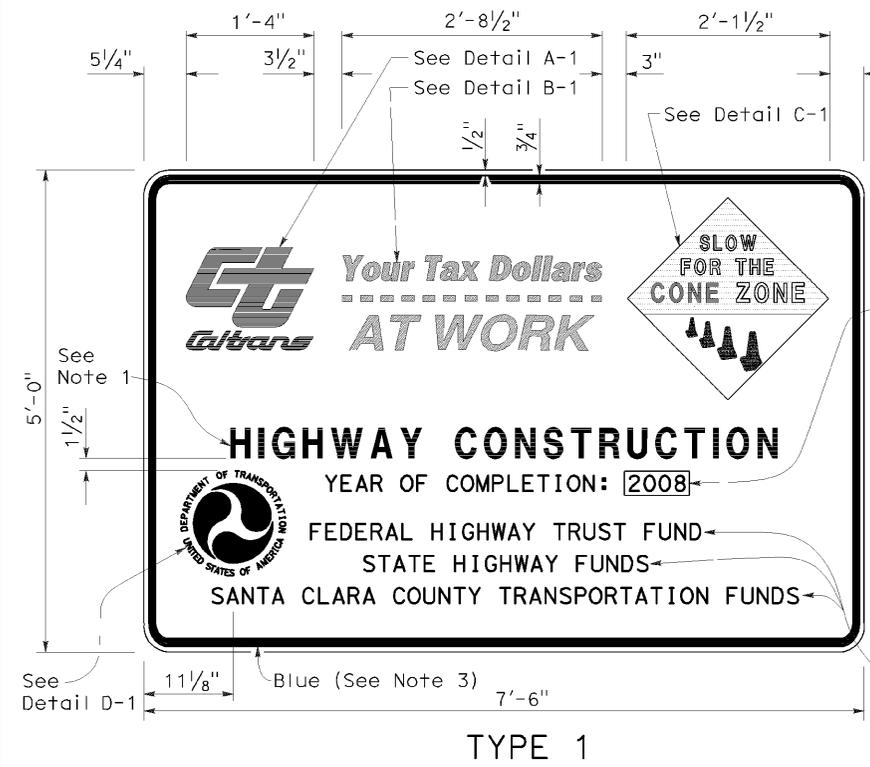
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	39	61

*Greg W. Edwards*  
 REGISTERED CIVIL ENGINEER  
 No. C36386  
 Exp. 6-30-08  
 CIVIL  
 STATE OF CALIFORNIA

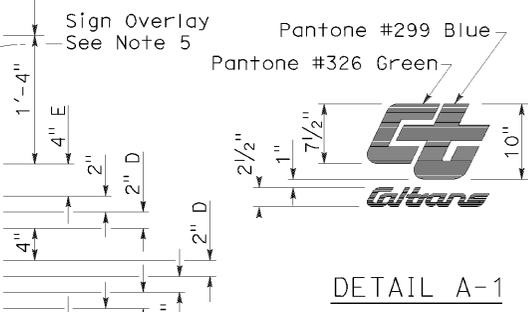
November 17, 2006  
 PLANS APPROVAL DATE

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.

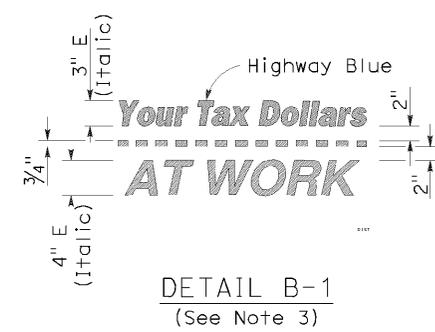
To accompany plans dated 10-24-07



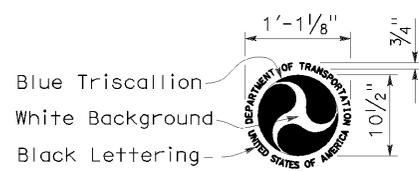
**TYPE 1**



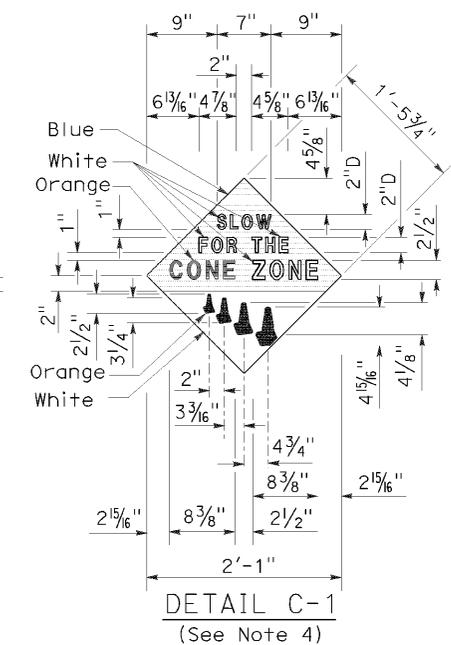
**DETAIL A-1**



**DETAIL B-1**  
(See Note 3)



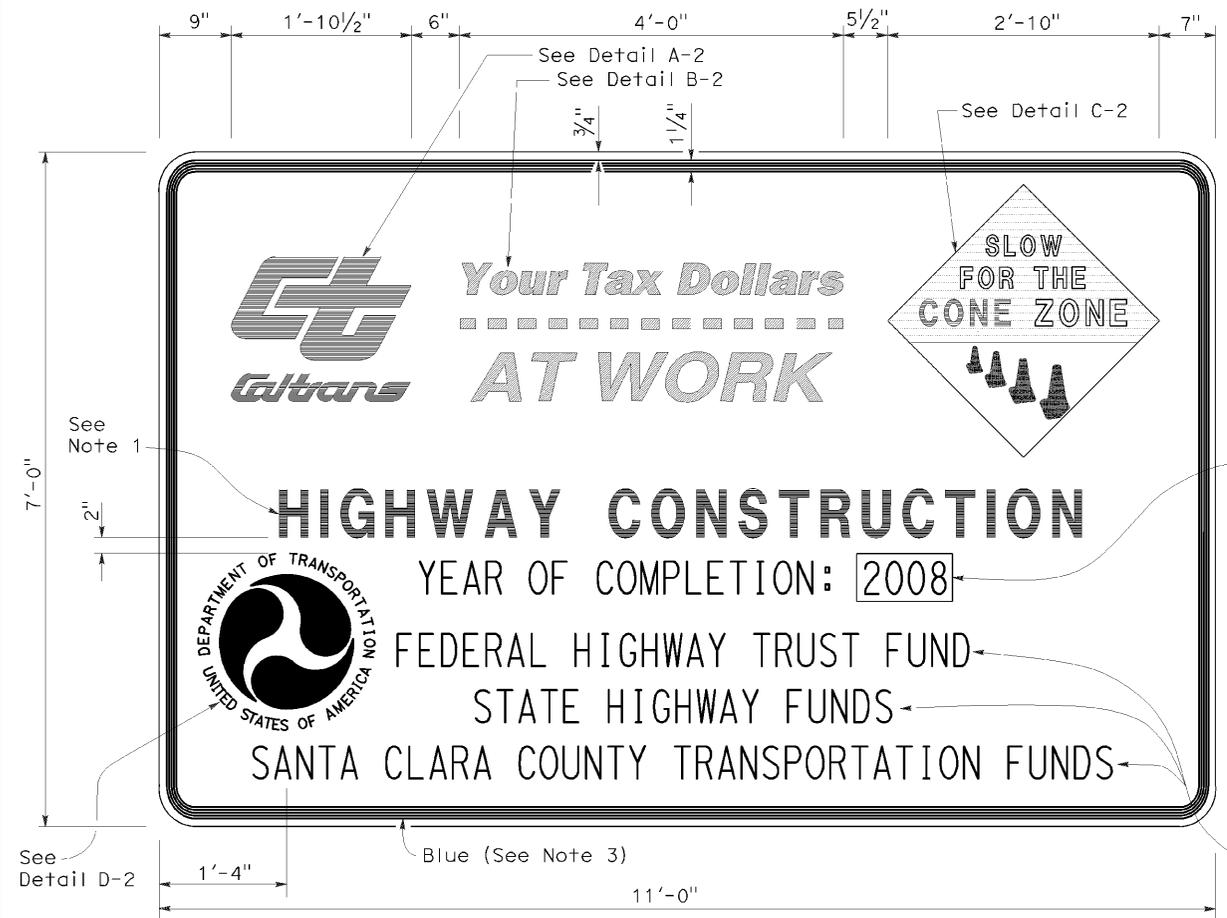
**DETAIL D-1**  
(See Note 6)



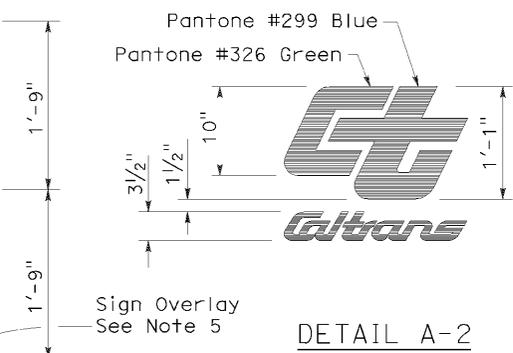
**DETAIL C-1**  
(See Note 4)

**NOTES:**

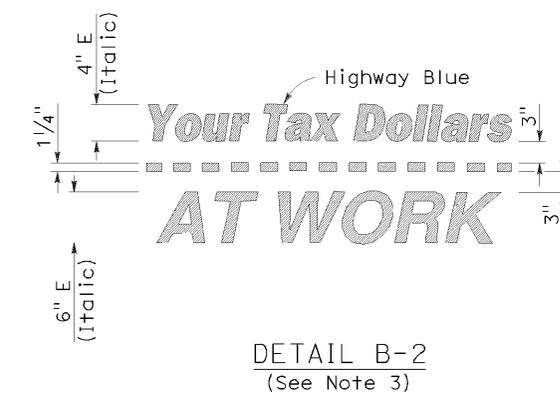
1. The sign messages shown for type of project and fund types are examples only. See the Special Provisions for the applicable type of project and fund type messages to be used.
2. Except as otherwise shown, the legend of sign shall be black on a white background (non-reflective).
3. The border of the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



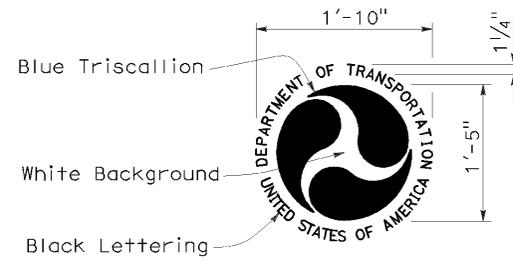
**TYPE 2**



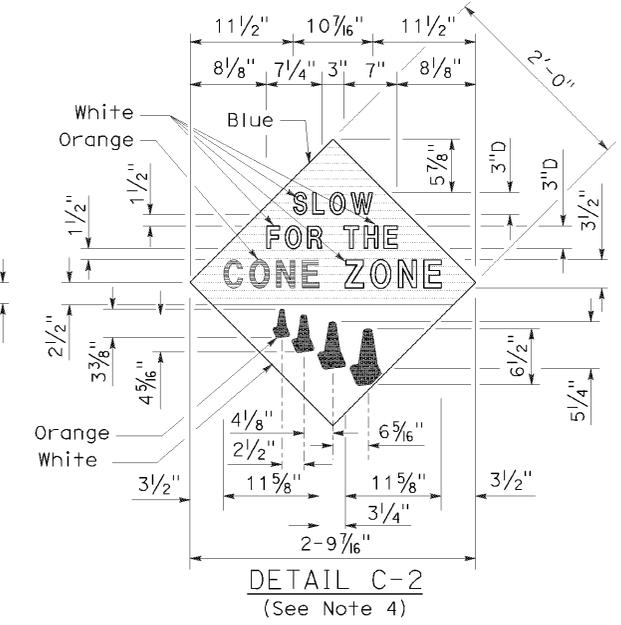
**DETAIL A-2**



**DETAIL B-2**  
(See Note 3)



**DETAIL D-2**  
(See Note 6)



**DETAIL C-2**  
(See Note 4)

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS**

NO SCALE

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

**REVISED STANDARD PLAN RSP T7**

2006 REVISED STANDARD PLAN RSP T7

# ELECTROLIERS

STANDARD TYPES		
15, 15D		High mast light pole
15 STRUCTURE		Double Arm lighting standard
21, 21D STRUCTURE		Existing electrolier
30		Electrolier foundation (Future installation)
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, top attachment
MAS-4B	mas-4B	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4C	mas-4C	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, top attachment
MAS-5B	mas-5B	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
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
07	LA	5	C45.4/C46.1	40	61

REGISTERED ELECTRICAL ENGINEER  
 No. E14512  
 Exp. 6-30-08  
 STATE OF CALIFORNIA

October 5, 2007  
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 10-24-07

## 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
07	LA	5	C45.4/C46.1	41	61

*Jeffery G. McRae*  
 REGISTERED ELECTRICAL ENGINEER  
 October 5, 2007  
 PLANS APPROVAL DATE

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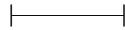
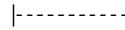
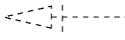
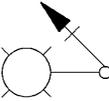
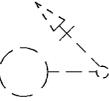
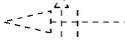
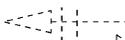
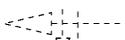
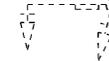
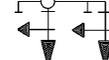
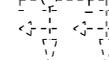
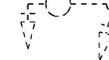
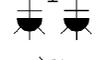
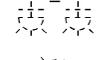
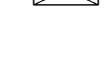
To accompany plans dated 10-24-07

2006 REVISED STANDARD PLAN RSP ES-1B

**CONDUIT**

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

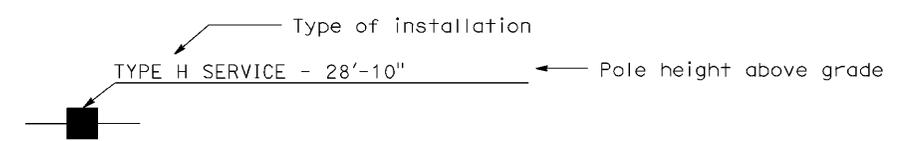
**SIGNAL EQUIPMENT**

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

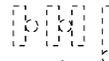
**SERVICE EQUIPMENT**

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

**POLE-MOUNTED SERVICE DESIGNATION**



**ILLUMINATED OVERHEAD SIGN**

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

**SIGNAL EQUIPMENT Cont**

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

**NOTES:**

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.

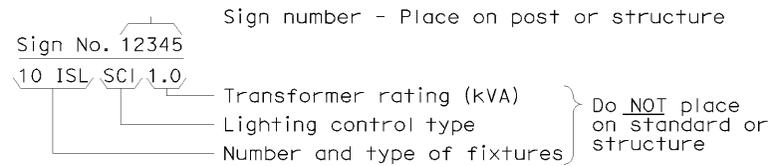
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
 (SYMBOLS AND ABBREVIATIONS)**  
 NO SCALE

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.

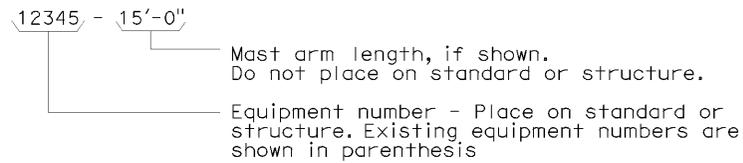
**REVISED STANDARD PLAN RSP ES-1B**

### EQUIPMENT IDENTIFICATION

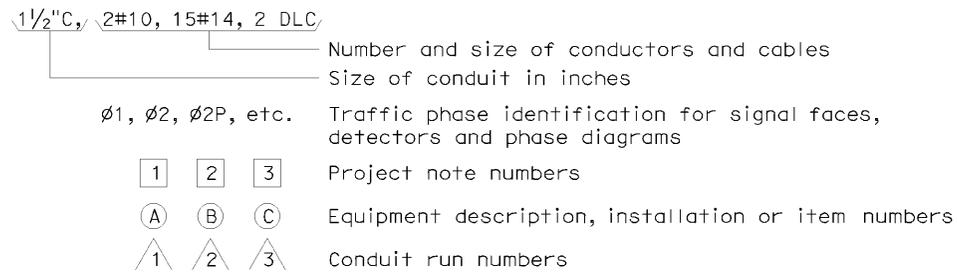
#### ILLUMINATED SIGN IDENTIFICATION NUMBER:



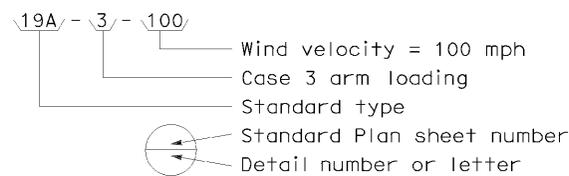
#### ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



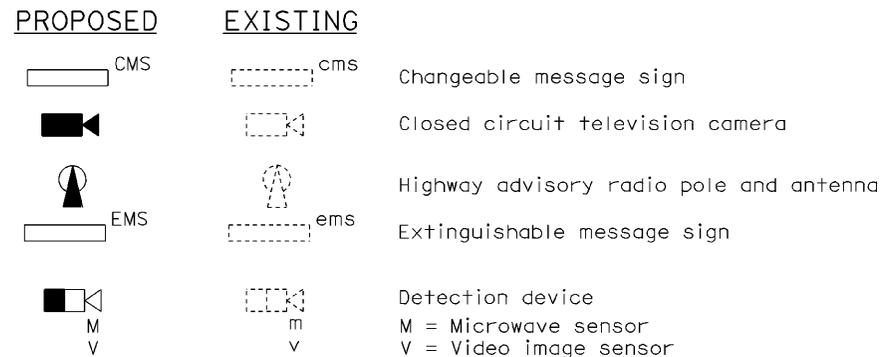
#### CONDUIT AND CONDUCTOR IDENTIFICATION:



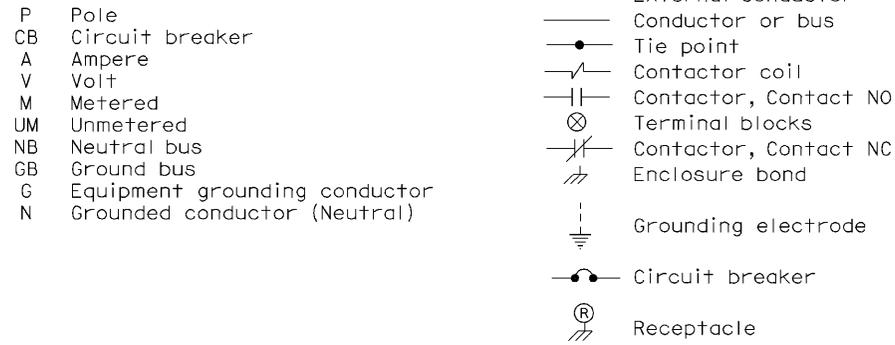
#### SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



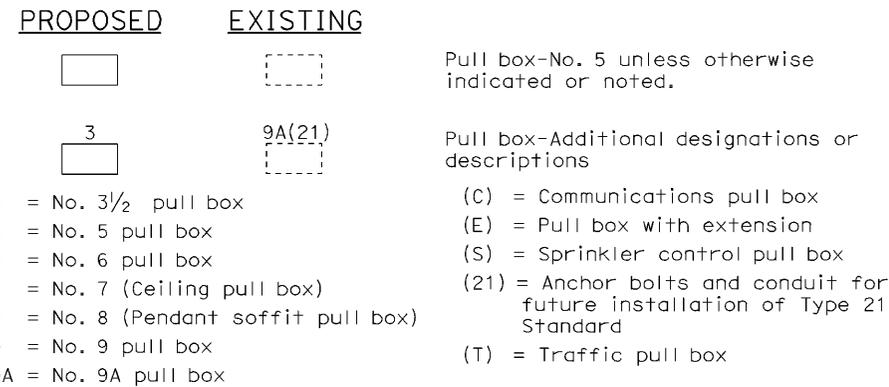
### MISCELLANEOUS EQUIPMENT



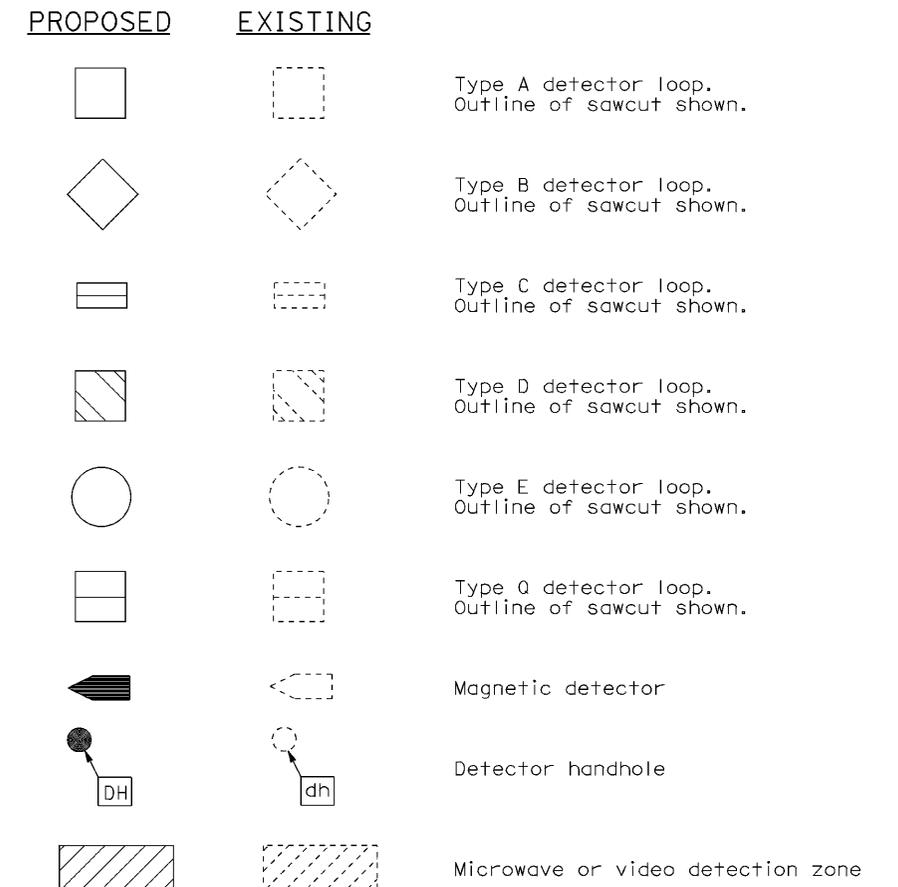
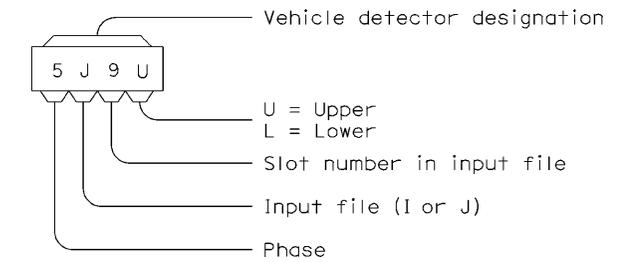
### WIRING DIAGRAM LEGEND



### PULL BOXES



### VEHICLE DETECTORS



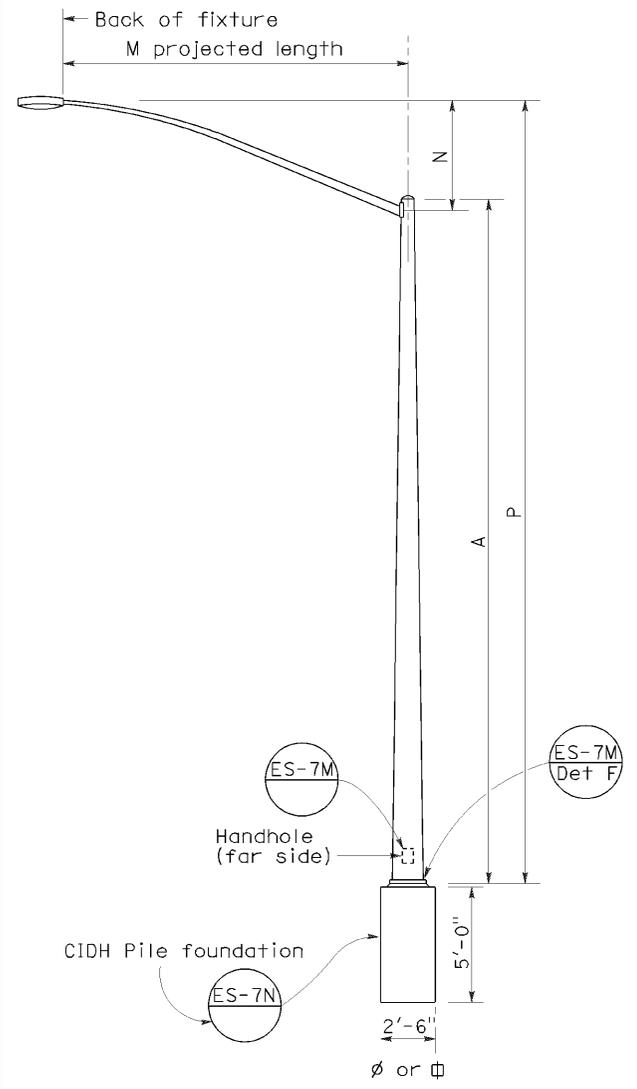
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

## ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

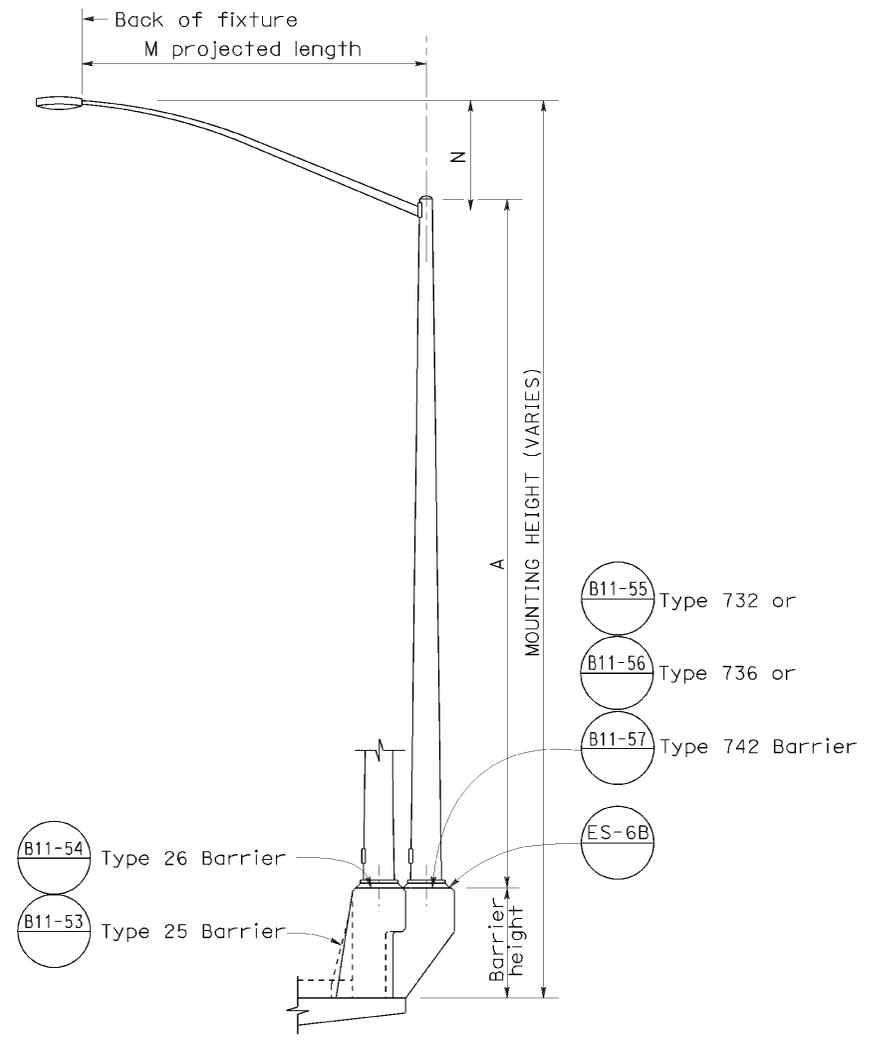
NO SCALE

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.

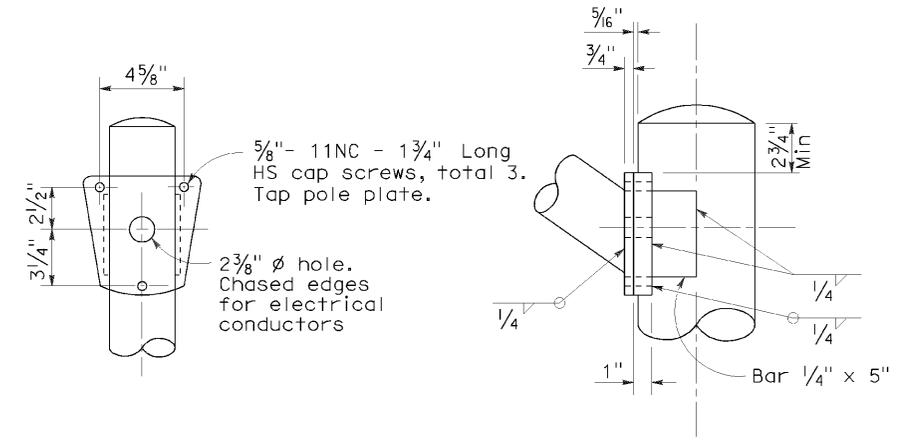
To accompany plans dated 10-24-07



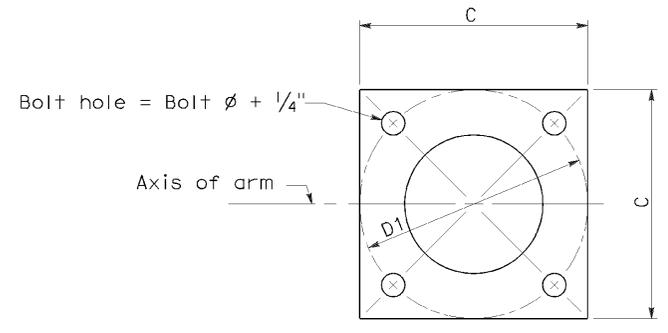
**ELEVATION**  
**TYPE 15 AND TYPE 21**



**ELEVATION**  
**TYPE 15 AND TYPE 21 BARRIER RAIL MOUNTED**



**DETAIL R**  
**LUMINAIRE ARM CONNECTION**



**BASE PLATE**

POLE TYPE	POLE DATA				BASE PLATE DATA				LUMINAIRE ARM
	A Height	Min OD Base	Min OD Top	Wall Thickness	C	D1 Bolt Circle	Thick-ness	Anchor Bolts Size	
15	30'	8"	3 7/8"	0.1196"	1'-0"	1'-0"	1"	1" ø x 3'-0" x 4"*	6' - 15' 12'
21	35'	8 5/8"	3 7/8"	0.1196"	1'-0"	1'-0"	1"	1 1/4" ø x 3'-0" x 4"*	6' - 15' 12'

LUMINAIRE ARM DATA					
M Projected Length	N Rise	Min OD At Pole	Nominal Thickness	P	
				Type 15	Type 21
6'-0"	2'-0"±	3 1/4"	0.1196"	31'-6"±	36'-6"±
8'-0"	2'-6"±	3 1/2"	0.1196"	32'-0"±	37'-0"±
10'-0"	3'-3"±	3 7/8"	0.1196"	32'-9"±	37'-9"±
12'-0"	4'-3"±	3 7/8"	0.1196"	33'-9"±	38'-9"±
15'-0"	4'-9"±	4 1/4"	0.1196"	34'-3"±	39'-3"±

\* For barrier rail bolts, see Standard Plan ES-6B.

**NOTES:**

- Indicates arm length to be used unless otherwise noted on the plans.
- For Type 15-SB, use Type 15 standard with Type 30 slip base plate details, see Standard Plan ES-6F.
- For additional notes, see Standard Plan ES-7M and ES-7N.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS**  
**(LIGHTING STANDARD**  
**TYPES 15 AND 21)**

NO SCALE

RSP ES-6A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-6A DATED MAY 1, 2006 - PAGE 427 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP ES-6A**

2006 REVISED STANDARD PLAN RSP ES-6A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	C45.4/C46.1	44	61

10-23-07  
 REGISTERED CIVIL ENGINEER DATE  
 10-24-07  
 PLANS APPROVAL DATE

M. A. HOLM  
 No. 53312  
 Exp. 6-30-09  
 CIVIL  
 STATE OF CALIFORNIA

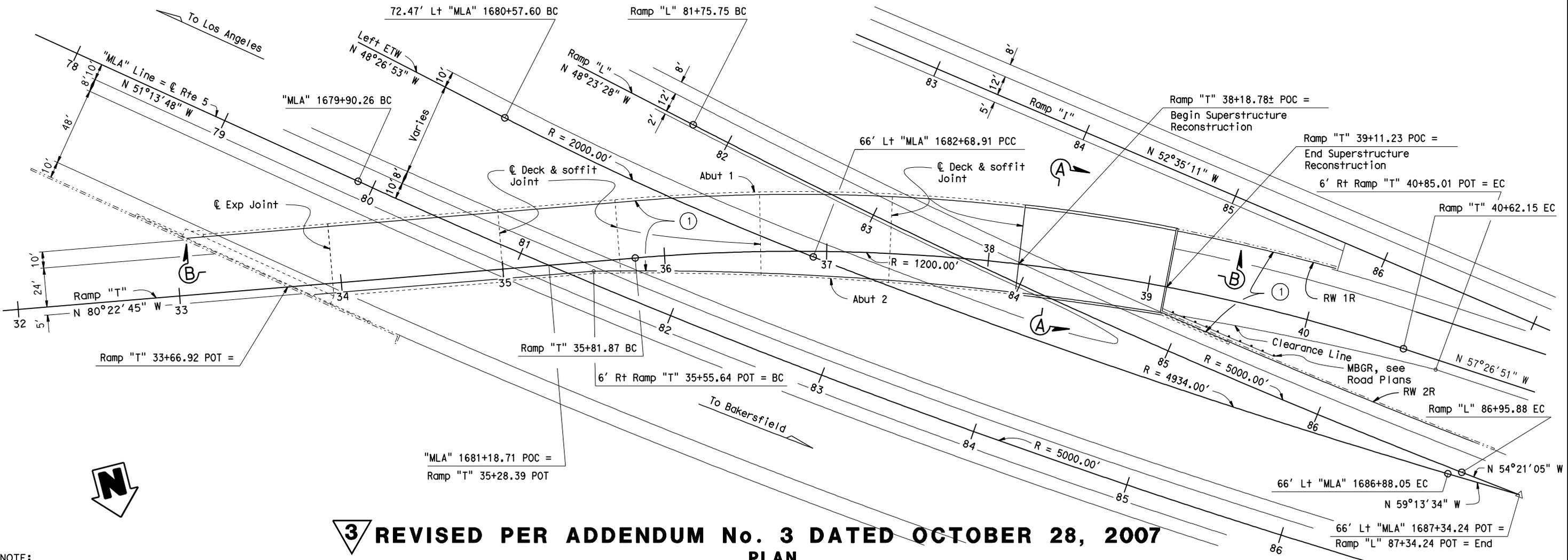
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

QUANTITIES

TEMPORARY SUPPORT	LUMP SUM
REMOVE UNSOUND CONCRETE	2,250 CF
BRIDGE REMOVAL (PORTION)	LUMP SUM
STRUCTURE EXCAVATION (BRIDGE)	425 CY
STRUCTURE BACKFILL (BRIDGE)	425 CY
STRUCTURAL CONCRETE, BRIDGE	158 CY
DRILL AND BOND DOWEL	2,450 LF
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (50'-60')	15 EA
ERECT PRECAST CONCRETE GIRDER	15 EA
BAR REINFORCING STEEL (BRIDGE)	83,700 LB
SHOTCRETE (STRUCTURAL SECTION)	191 CY
SHOTCRETE (FINISH COAT)	24,900 SQFT
CABLE RAILING	102 LF
CONCRETE BARRIER (TYPE 732)	54 LF
UNDERCROSSING ELECTRICAL WORK	LUMP SUM
PREPARE CONCRETE ABUTMENT WALL SURFACE	18,915 SQFT
SPRAY MORTAR	45 CF



- NOTES:
- Existing wall repair.
  - For "Index To Plans" see "GENERAL PLAN 2" sheet.
  - For "Section A-A" and "Section B-B" see "GENERAL PLAN 2" sheet.



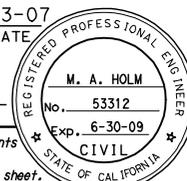
**3 REVISED PER ADDENDUM No. 3 DATED OCTOBER 28, 2007**

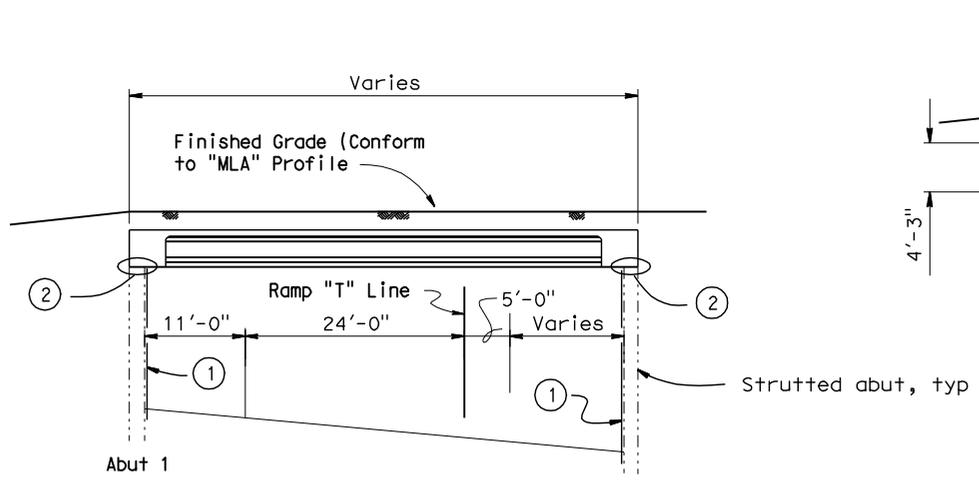
**2 REVISED PER ADDENDUM No. 2 DATED OCTOBER 27, 2007**

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

X  10-23-07 DESIGN ENGINEER	DESIGN	BY Rick Schendel	CHECKED Bill Addlespurger	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 12	BRIDGE NO.	53-1959	TRUCK ROUTE UNDERCROSSING (REPAIR) GENERAL PLAN 1	
	DETAILS	BY Jeff Thorne	CHECKED Rick Schendel	LAYOUT	BY Jeff Thorne			CHECKED Rick Schendel	POST MILE		45.7
	QUANTITIES	BY Rick Schendel	CHECKED Bill Addlespurger	SPECIFICATIONS	BY John Strootman			PLANS AND SPECS COMPARED John Strootman	REVISION DATES		10-22-07

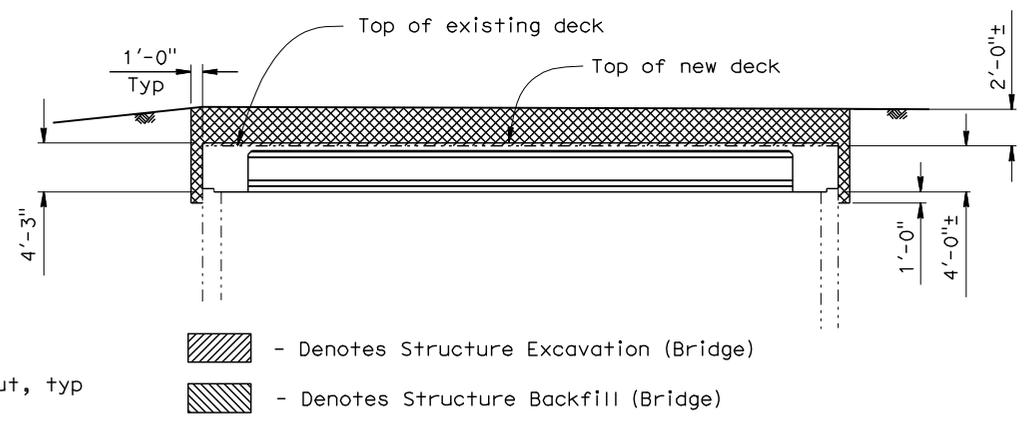
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 07 EA 1X8401 FILE => 53-1959-c-agp01.dgn DISREGARD PRINTS BEARING EARLIER REVISION DATES 10-22-07 SHEET 1 OF 18 STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.07-24-06)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	C45.4/C46.1	45	61
 REGISTERED CIVIL ENGINEER DATE 10-23-07					
PLANS APPROVAL DATE 10-24-07					
<small>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.</small>					



**SECTION A-A**  
1" = 10'-0"

- Notes:
- ① Existing wall repair.
  - ② Refinish bearing area.



**SUPERSTRUCTURE RECONSTRUCTION SECTION**  
**PAY LIMITS OF EXCAVATION AND BACKFILL**  
No Scale

**GENERAL NOTES**  
**LOAD FACTOR DESIGN**

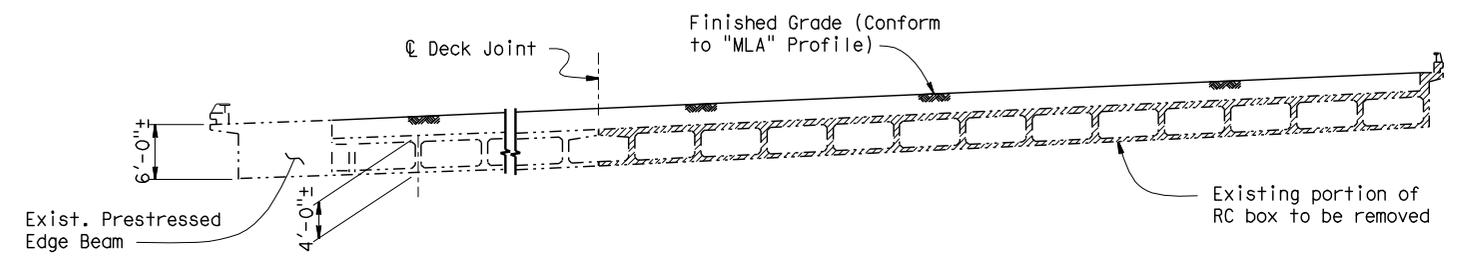
DESIGN: CALTRANS BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by Caltrans)

LIVE LOAD: HS20-44 and Alternative and Permit Design Load

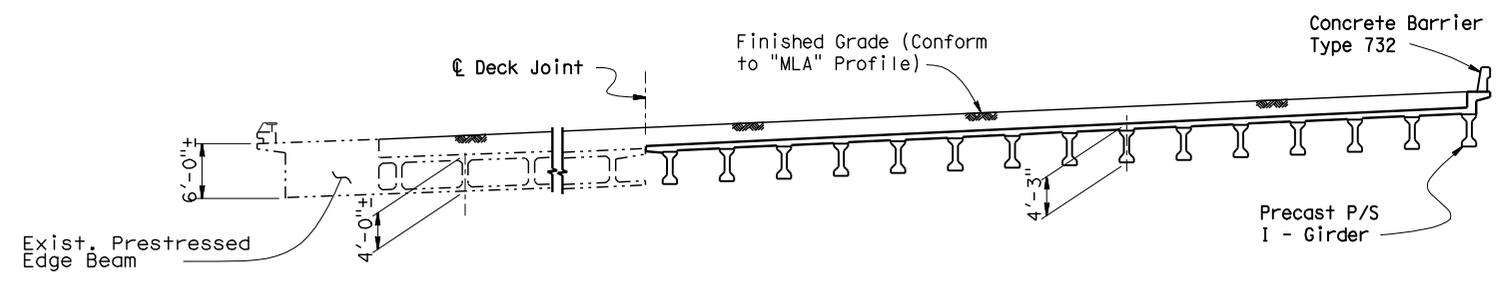
REINFORCED CONCRETE:  $f_y = 60$  ksi  
 $f'_c = 3.6$  ksi UON

Transverse Deck Slabs and walls (Working Stress):  
 $f_s = 20$  ksi  
 $f_c = 1.20$  ksi  
 $n = 10$

PRESTRESSED CONCRETE: See "PRECAST PRESTRESSED I GIRDER" sheet  
SHOTCRETE:  $f'_c = 3.6$  ksi



**SECTION B-B SUPERSTRUCTURE REMOVAL (PORTION)**  
1" = 10'



**SECTION B-B SUPERSTRUCTURE RECONSTRUCTION (PORTION)**  
1" = 10'

INDEX TO PLANS

1. GENERAL PLAN 1
2. GENERAL PLAN 2
3. ABUTMENT 1 ELEVATION
4. ABUTMENT 2 ELEVATION
5. RETAINING WALLS
6. WALL DETAILS
7. TEMPORARY SUPPORT DETAILS
8. TYPICAL SECTION
9. GIRDER LAYOUT
10. END DIAPHRAGM DETAILS
11. PRECAST PRESTRESSED I GIRDER
12. EE-0 - LEGEND
13. EE-1 - SITE PLAN
14. EE-2 - UNDERCROSSING LAYOUT
15. EE-3 - UNDERCROSSING SECTION AND ELECTRICAL DETAILS
16. EE-4 - SERVICE SWITCHBOARD AND SINGLE LINE DIAGRAM
17. EE-5 - ELECTRICAL EQUIPMENT ENCLOSURE
18. EE-6 - LUMINAIRE MOUNTING AND GENERATOR SLAB DETAILS

STANDARD PLANS DATED MAY 2006

- |        |   |
|--------|---|
| A10A   | ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2) |
| A10B   | ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2) |
| B0-1   | BRIDGE DETAILS                            |
| B0-5   | BRIDGE DETAILS                            |
| B0-13  | BRIDGE DETAILS                            |
| B11-47 | CABLE RAILING                             |
| B11-55 | CONCRETE BARRIER TYPE 732                 |

LEGEND:

- Denotes new construction
- Denotes existing structure
-  STANDARD PLAN SHEET No.
-  DETAIL No.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

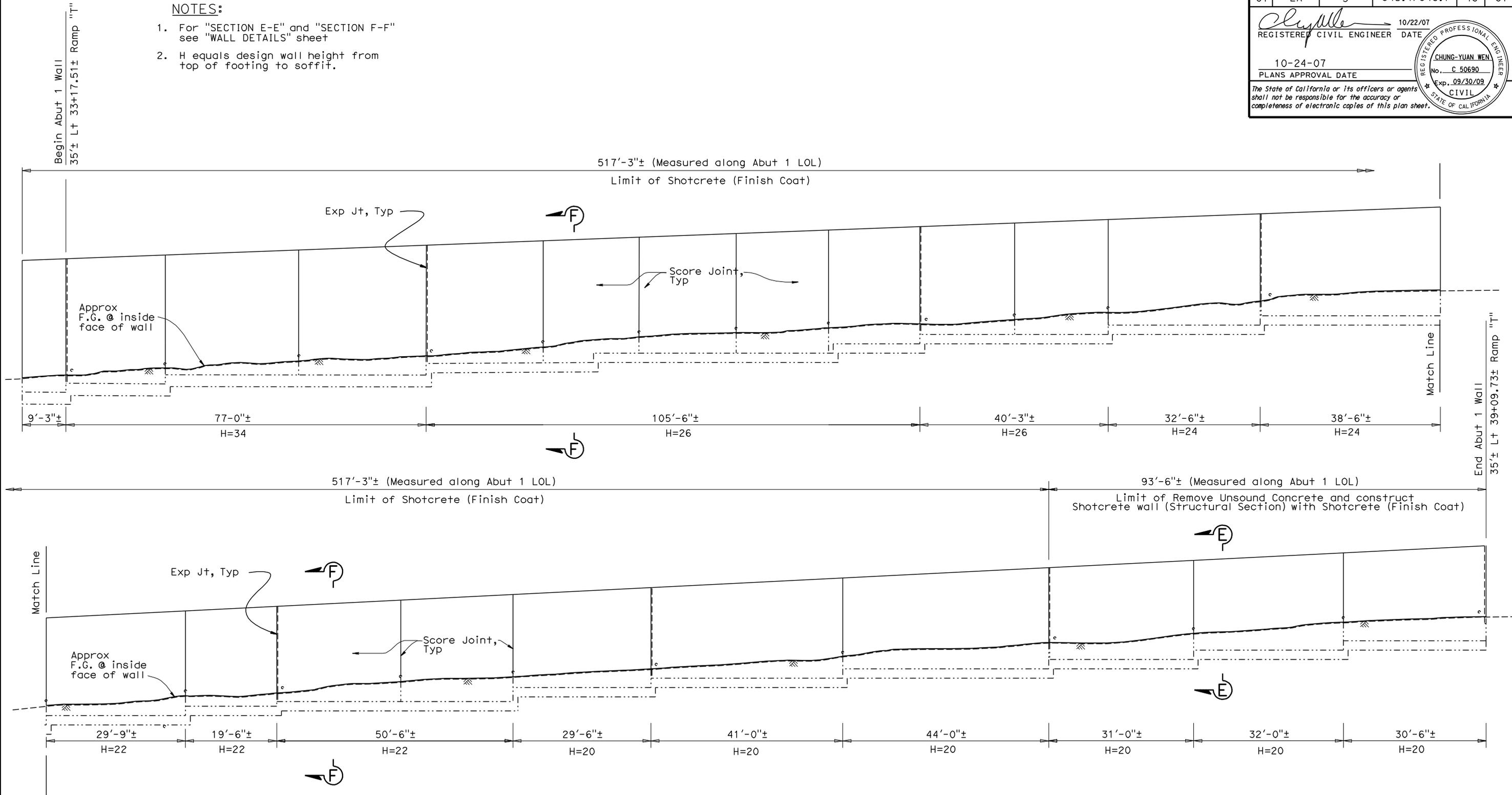
 DESIGN ENGINEER 10-23-07	DESIGN	BY Rick Schendel	CHECKED Bill Addlespurger	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION OF ENGINEERING SERVICES</b> <b>STRUCTURE DESIGN</b> <b>DESIGN BRANCH 12</b>	BRIDGE No.	53-1959	<b>TRUCK ROUTE UNDERCROSSING (REPAIR)</b> <b>GENERAL PLAN 2</b>	
	DETAILS	BY Jeff Thorne	CHECKED Rick Schendel	LAYOUT	BY Jeff Thorne			POST MILE	45.7		
	QUANTITIES	BY Rick Schendel	CHECKED Bill Addlespurger	SPECIFICATIONS	BY John Strootman			PLANS AND SPECS COMPARED	John Strootman		
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07 EA 1X8401	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET 2 OF 18

USERNAME => hrmikes1 DATE PLOTTED => 28-OCT-2007 TIME PLOTTED => 14:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	C45.4/C46.1	46	61
			REGISTERED CIVIL ENGINEER	DATE	
			10/22/07		
			PLANS APPROVAL DATE		
			10-24-07		
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.					

**NOTES:**

1. For "SECTION E-E" and "SECTION F-F" see "WALL DETAILS" sheet
2. H equals design wall height from top of footing to soffit.



NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

**ABUTMENT 1 ELEVATION**

Scale 1" = 10'

DESIGN	BY Feiruz Aberra	CHECKED Chung-Yuan Wen
DETAILS	BY Lan Tran	CHECKED Feiruz Aberra
QUANTITIES	BY Mohammad Muqtadir	CHECKED Bin Mu

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
STRUCTURE DESIGN  
**DESIGN BRANCH 20**

BRIDGE NO.	53-1959
POST MILE	45.7

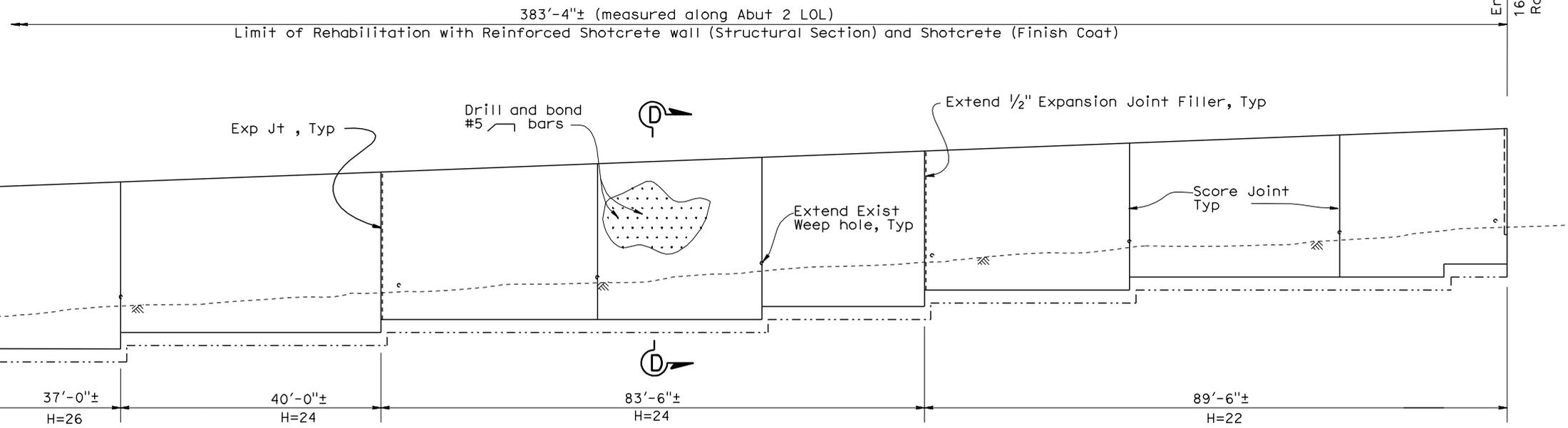
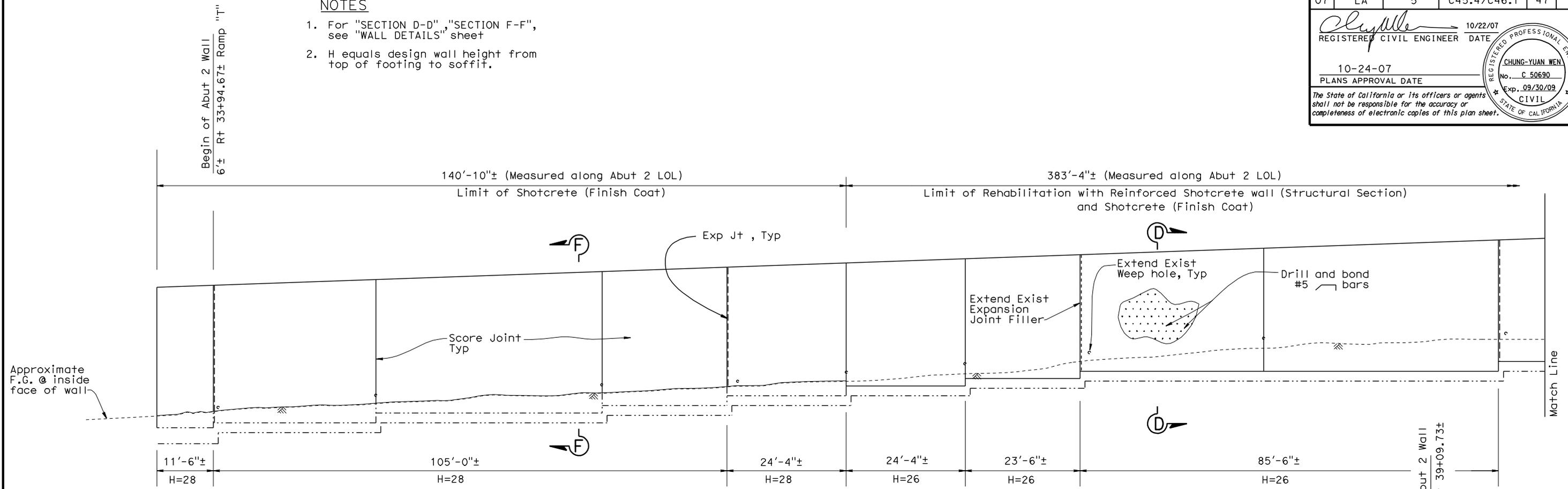
**TRUCK ROUTE UNDERCROSSING (REPAIR)**  
**ABUTMENT 1 ELEVATION**

USERNAME => hrmikes DATE PLOTTED => 28-OCT-2007 TIME PLOTTED => 14:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	C45.4/C46.1	47	61
REGISTERED CIVIL ENGINEER			DATE	10/22/07	
10-24-07			PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER CHUNG-YUAN WEN No. C 50690 Exp. 09/30/09 CIVIL 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.					

**NOTES**

- For "SECTION D-D", "SECTION F-F", see "WALL DETAILS" sheet
- H equals design wall height from top of footing to soffit.



**ABUTMENT 2 ELEVATION**

Scale 1" = 10'

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Feiruz Aberra	CHECKED Chung-Yuan Wen
DETAILS	BY Lan Tran	CHECKED Feiruz Aberra
QUANTITIES	BY Mohammad Muqtadir	CHECKED Bin Mu

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
STRUCTURE DESIGN  
DESIGN BRANCH **20**

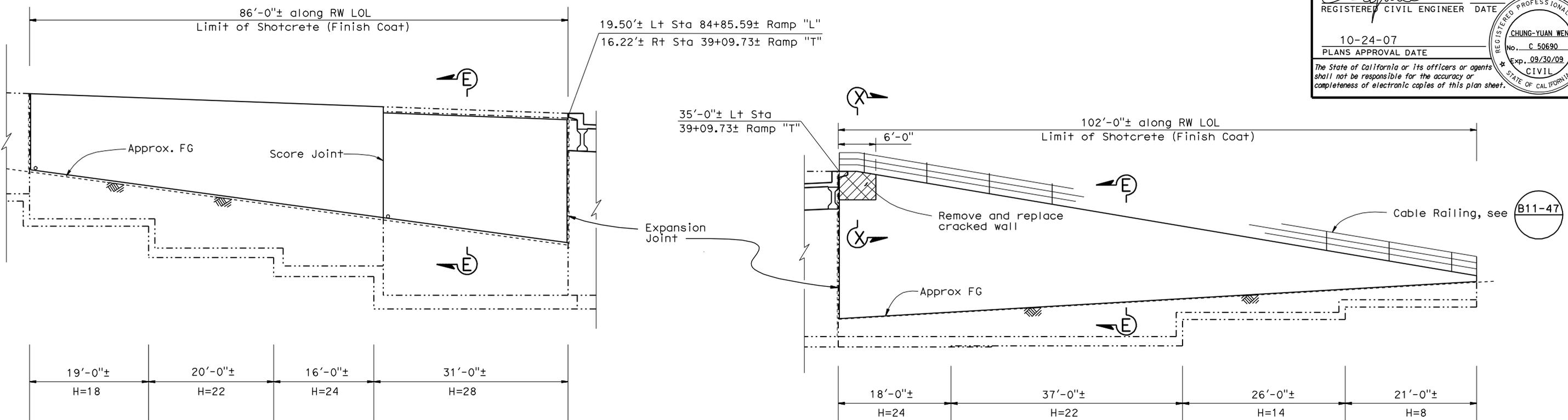
BRIDGE NO.	53-1959
POST MILE	45.7

TRUCK ROUTE UNDERCROSSING (REPAIR)  
ABUTMENT 2 ELEVATION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	C45.4/C46.1	48	61

REGISTERED CIVIL ENGINEER: *Chung-Yuan Wen*  
 DATE: 10/22/07  
 PLANS APPROVAL DATE: 10-24-07  
 No. C 50690  
 Exp. 09/30/09  
 CIVIL  
 STATE OF CALIFORNIA

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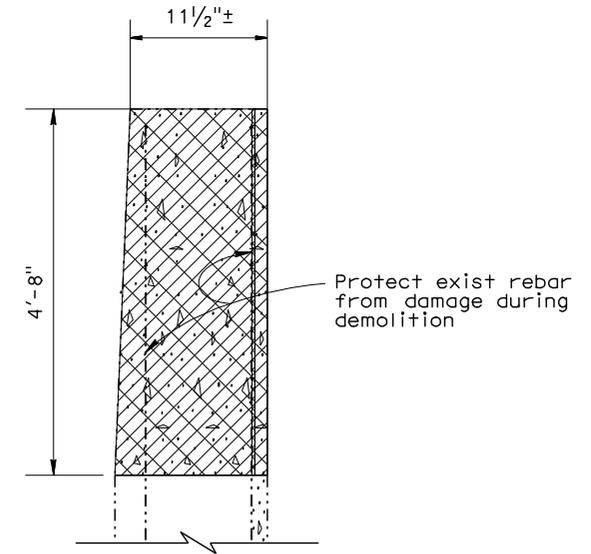


**RW 2R ELEVATION**  
1/8" = 1'-0"

**RW 1R ELEVATION**  
1/8" = 1'-0"

NOTE: Barrier not shown

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



**SECTION X-X**  
No Scale

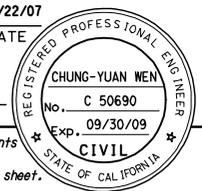
- LEGEND:**
- Exist Structure
  - Bridge Removal (Portion)
  - Shotcrete (Structural Section)
  - Bridge Replacement (Portion)

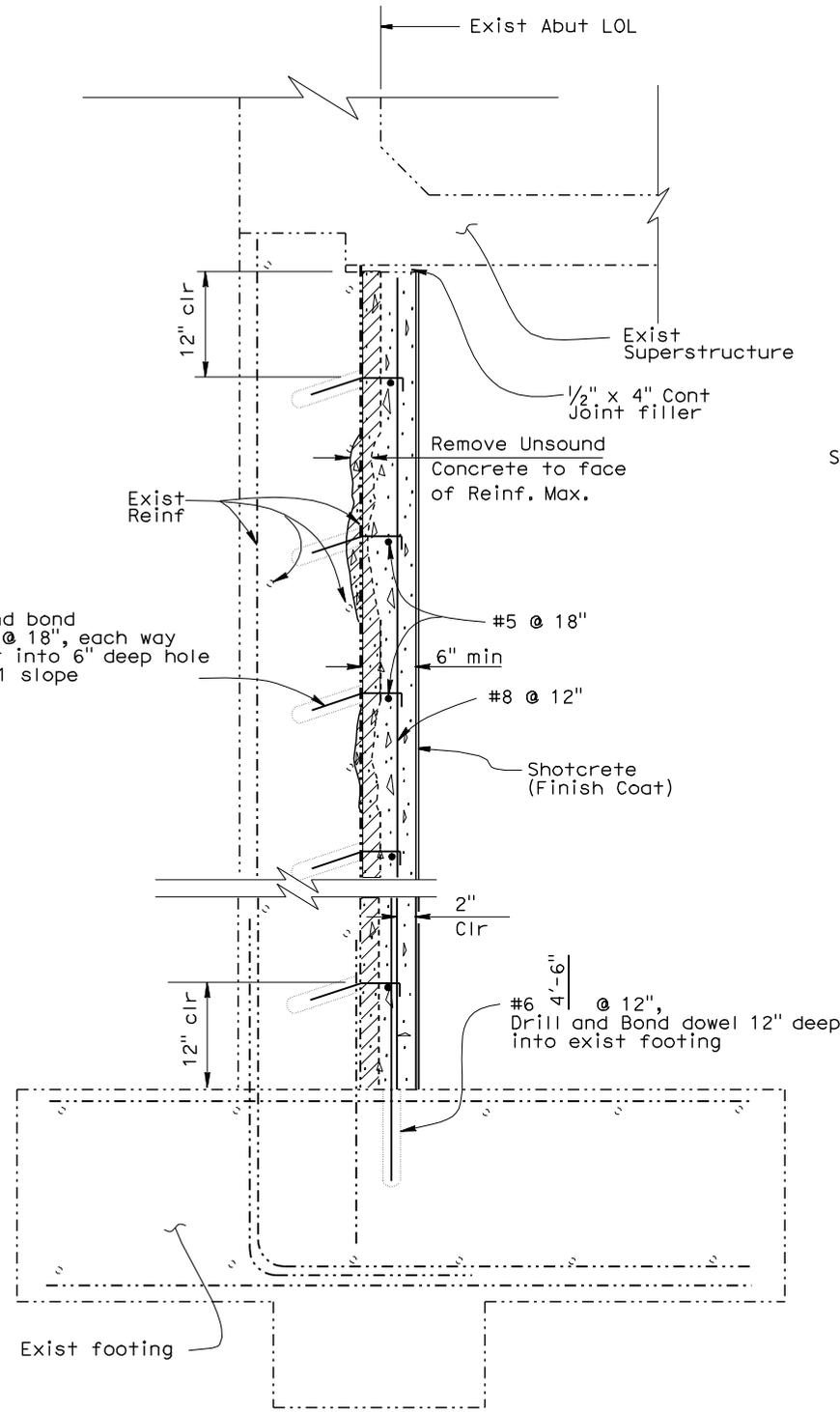
- NOTE:**
1. For "SECTION E-E" see, "WALL DETAILS" sheet
  2. H equals design height from top of footing to top of wall

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Feiruz Aberra	CHECKED Chung-Yuan Wen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH <b>20</b>	BRIDGE NO.	53-1959	TRUCK ROUTE UNDERCROSSING (REPAIR) RETAINING WALLS	
	DETAILS	BY Mandeep Singh/Lan Tran	CHECKED Feiruz Aberra			POST MILE	45.7		
	QUANTITIES	BY Mohammad Muqtadir	CHECKED Bin Mu						
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07 EA 1X8401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 5 OF 18

FILE => 53-1959-c-brws.dgn

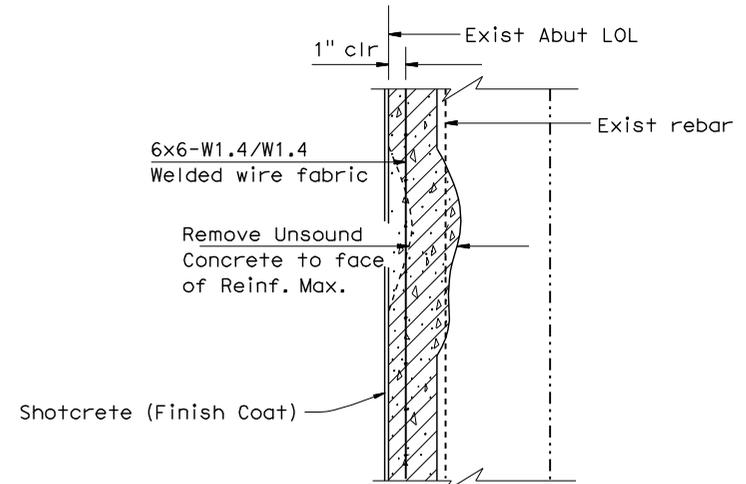
28-OCT-2007 TIME PLOTTED => 14:09 USERNAME => hrmikes DATE PLOTTED =>

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	C45.4/C46.1	49	61
 REGISTERED CIVIL ENGINEER			DATE	10/22/07	
PLANS APPROVAL DATE			10-24-07		
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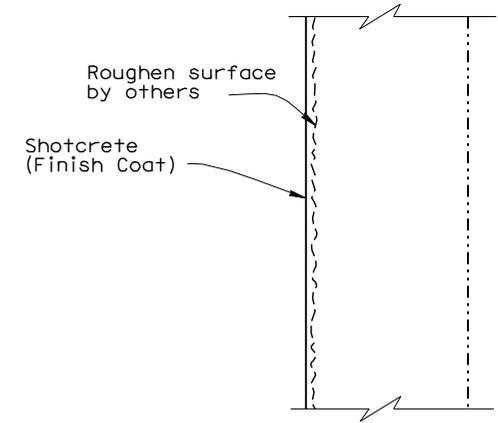
**SECTION D-D**  
NO SCALE

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



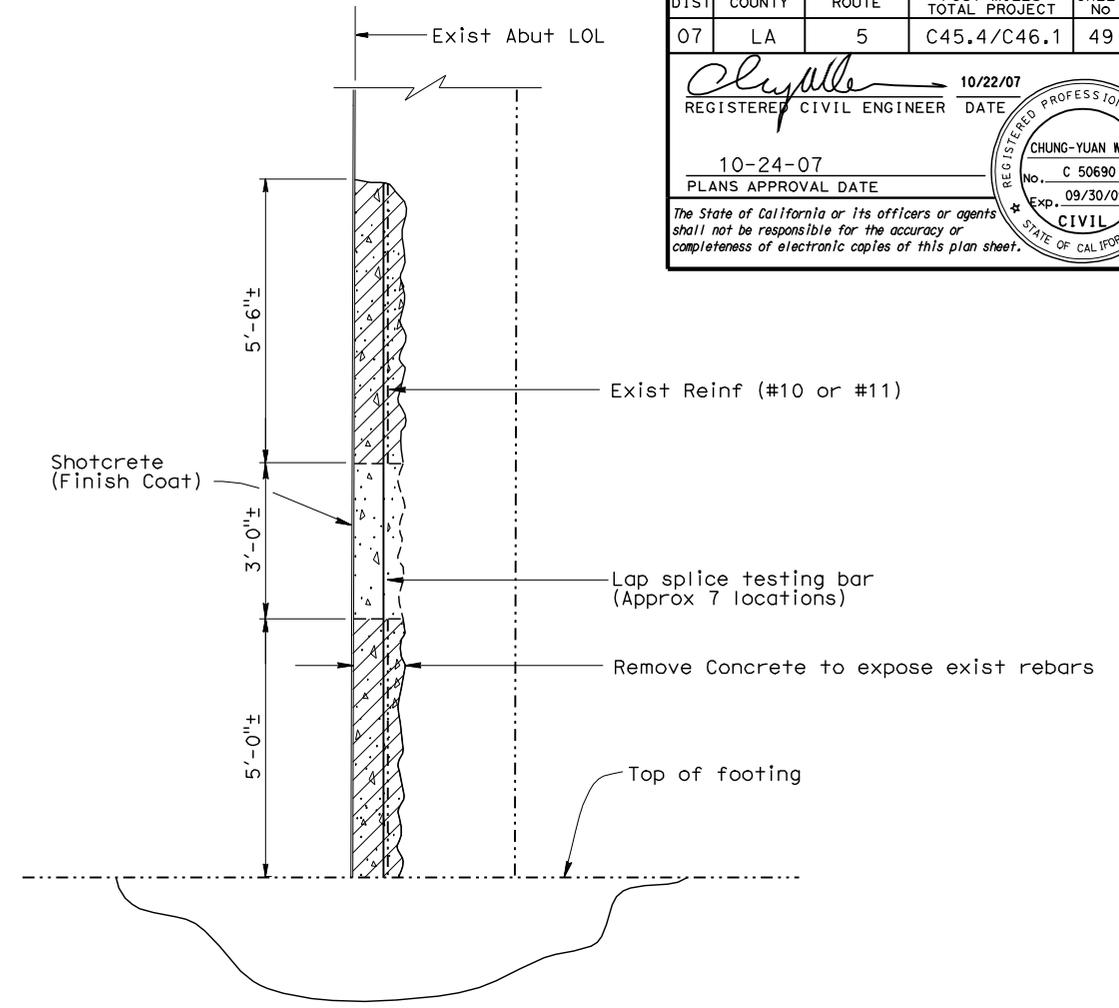
**SECTION E-E**  
NO SCALE

NOTES:  
1. Lap splice exist reinforcement removed for testing, see Lap Splice Test Bar" detail.  
2. Limit of repair from exist soffit or top of wall to F.G.



**SECTION F-F**  
NO SCALE

NOTES:  
1. Lap splice exist reinforcement removed for testing, see Lap Splice Test Bar" detail.  
2. Limit of repair from exist soffit to F.G.



**LAP SPLICE TEST BAR**  
NO SCALE

**LEGEND:**

- Exist Structure
-  Remove Unsound Concrete
-  Shotcrete (Structural Section)

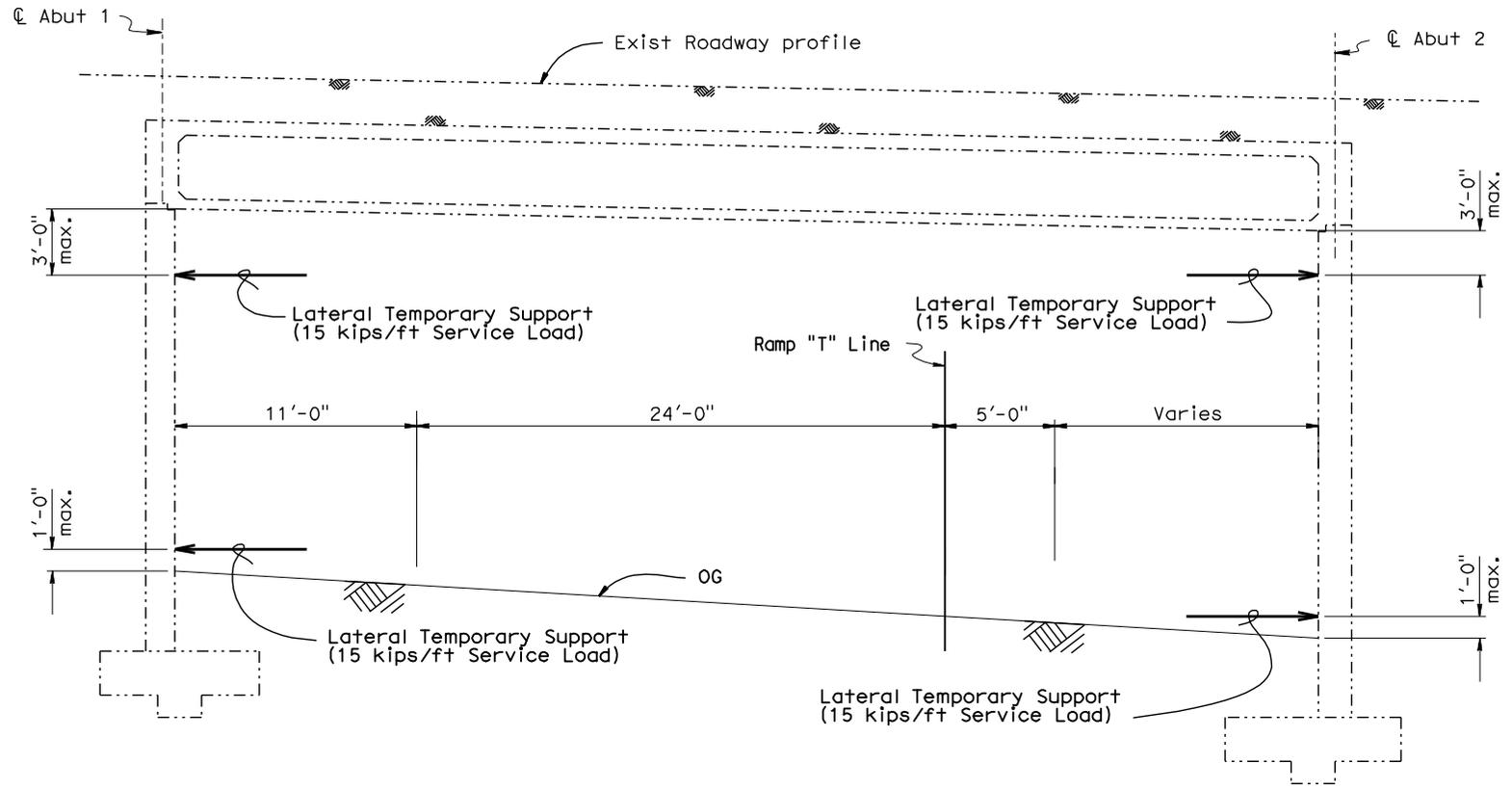
**NOTES:**

1. Method of removal of unsound concrete shall be approved by the Engineer
2. Exist reinforcement shall remain undamaged
3. For excavation and backfill limits, see "Road Plans"
4. Do not unnecessarily expose Reinf.
5. Provide 2" shotcrete cover over all exterior reinforcing.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Feiruz Aberra	CHECKED Chung-Yuan Wen	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 20</b>	BRIDGE NO.	53 1959	<b>TRUCK ROUTE UNDERCROSSING (REPAIR)</b> <b>WALL DETAILS</b>	
	DETAILS	BY Lan Tran/M.Singh	CHECKED Feiruz Aberra			POST MILE	45.7		
	QUANTITIES	BY Mohammad Muqtadir	CHECKED Bin Mu						
				CU 07	EA 1x8401	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 10/18/07 10/19/07 10/24/07 10/22/07	SHEET 6 OF 18

USERNAME => hrmikes DATE PLOTTED => 28-OCT-2007 TIME PLOTTED => 14:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	C45.4/C46.1	50	61
			10-23-07	REGISTERED CIVIL ENGINEER DATE	
			10-24-07	PLANS APPROVAL DATE	
			M. A. HOLM No. 53312 Exp. 6-30-09 CIVIL STATE OF CALIFORNIA		



**TEMPORARY SUPPORT**  
1/4" = 1'-0"

**Notes**

1. Lateral temporary supports shown shall be located within limits of superstructure reconstruction.
2. Lateral temporary supports shown shall be installed prior to removing existing cast-in-place box girder.
3. Lateral temporary support load includes 240 psf of live load surcharge behind each abutment wall.
4. Lateral temporary supports shall be designed to resist a force of no less than 0.75 kips/ft in the vertical and longitudinal directions.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Rick Schendel	CHECKED Bill Addlespurger
DETAILS	BY Jeff Thorne	CHECKED Rick Schendel
QUANTITIES	BY Rick Schendel	CHECKED Bill Addlespurger

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
STRUCTURE DESIGN  
**DESIGN BRANCH 12**

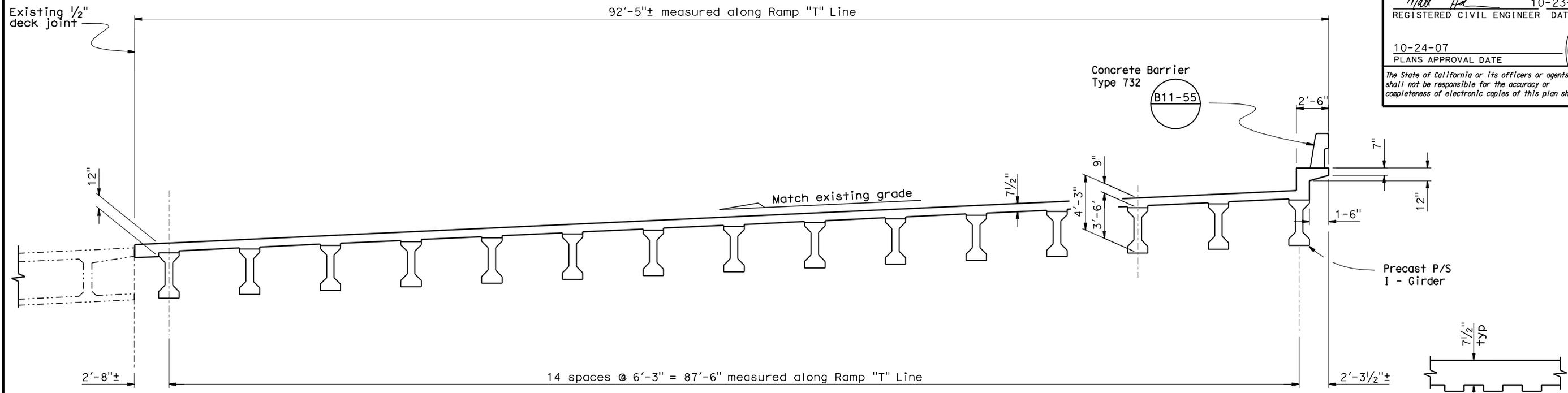
BRIDGE NO.	53-1959
POST MILE	45.7

**TRUCK ROUTE UNDERCROSSING (REPAIR)**  
**TEMPORARY SUPPORT DETAILS**

USERNAME => hrmikes DATE PLOTTED => 28-OCT-2007 TIME PLOTTED => 14:09

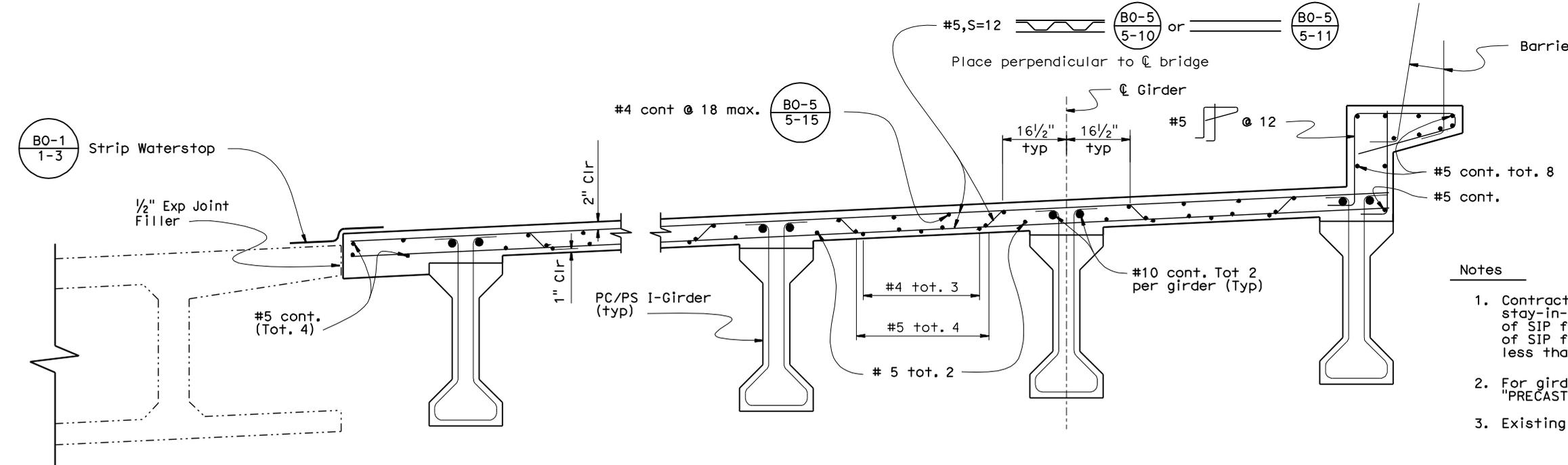
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	C45.4/C46.1	51	61

10-23-07  
 REGISTERED CIVIL ENGINEER DATE  
 10-24-07  
 PLANS APPROVAL DATE  
 M. A. HOLM  
 No. 53312  
 Exp. 6-30-09  
 CIVIL  
 STATE OF CALIFORNIA



**TYPICAL SECTION**  
 $\frac{1}{4}'' = 1'-0''$

**CONCRETE DECK WITH OPTIONAL STAY-IN-PLACE FORM**  
 No Scale  
 See Note 1



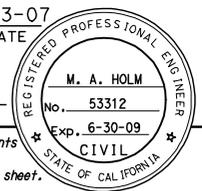
- Notes**
- Contractor has the option to use galvanized stay-in-place (SIP) form. Composite action of SIP form may not be assumed. Dead load of SIP form and additional concrete shall be less than 20 psf.
  - For girder reinforcement details, see "PRECAST PRESTRESSED I GIRDER" sheet.
  - Existing structure (not shown) to be removed.

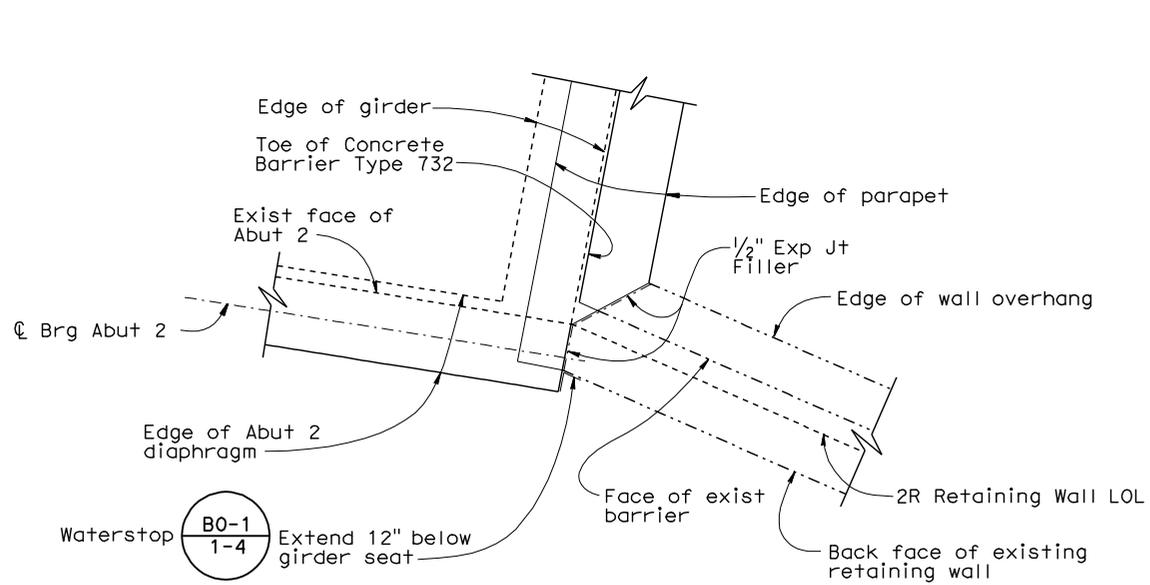
**PART TYPICAL SECTION**  
 $\frac{3}{4}'' = 1'-0''$

**NOTE:**  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

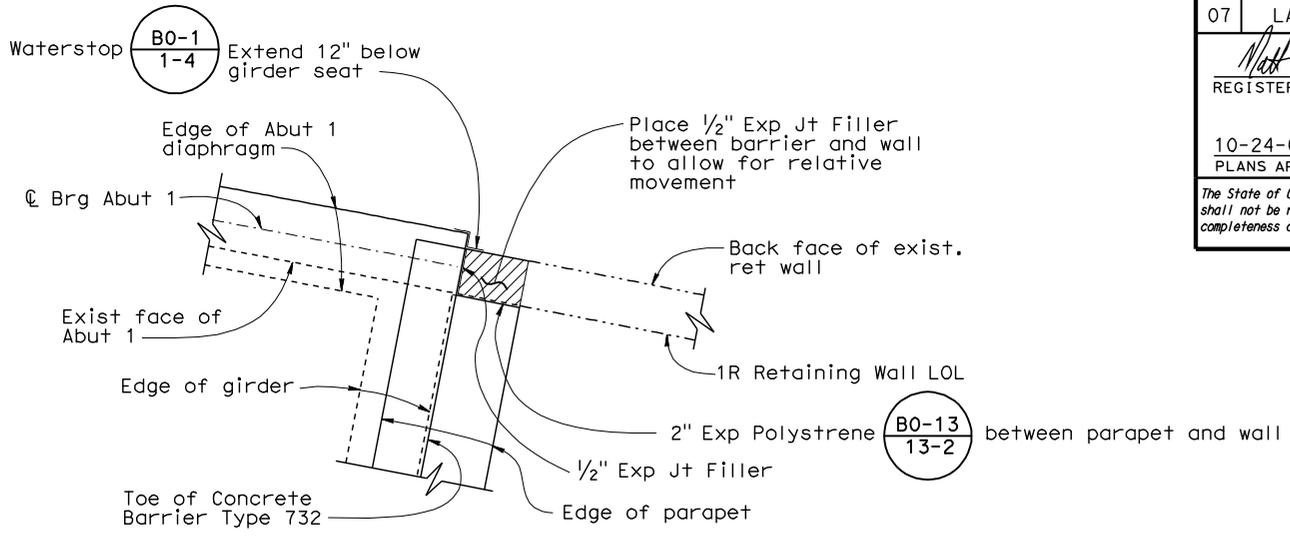
DESIGN BY Mike Pope	CHECKED G. Hight / P. Rimal	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION OF ENGINEERING SERVICES</b> <b>STRUCTURE DESIGN</b> <b>DESIGN BRANCH 12</b>	BRIDGE NO. 53-1959	<b>TRUCK ROUTE UNDERCROSSING (REPAIR)</b> <b>TYPICAL SECTION</b>
DETAILS BY Jeff Thorne	CHECKED Bill Adlespurger			POST MILE 45.7	
QUANTITIES BY Mike Pope	CHECKED Gary Hight				

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 07 EA 1X8401 FILE => 53-1959-c-btyp.dgn  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES 10-21-07 10-21-07 REVISION DATES SHEET 8 OF 18

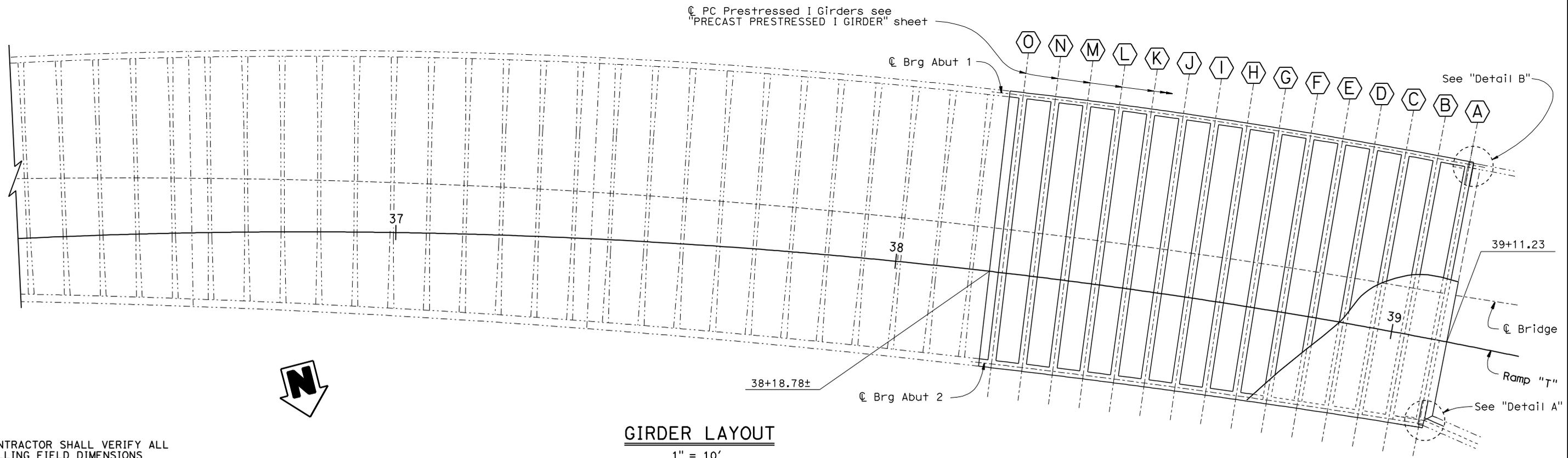
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	C45.4/C46.1	52	61
			10-23-07	REGISTERED CIVIL ENGINEER DATE	
			10-24-07	PLANS APPROVAL DATE	
					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



**DETAIL A**  
1/2" = 1'-0"



**DETAIL B**  
1/2" = 1'-0"



**GIRDER LAYOUT**  
1" = 10'

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

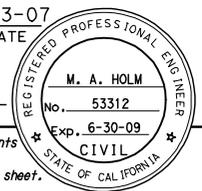
DESIGN	BY Bill Adlespurger	CHECKED Rick Schendel
DETAILS	BY J. Thorne / S. Schenck	CHECKED Bill Adlespurger
QUANTITIES	BY Mike Pope	CHECKED Gary Hight

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
STRUCTURE DESIGN  
**DESIGN BRANCH 12**

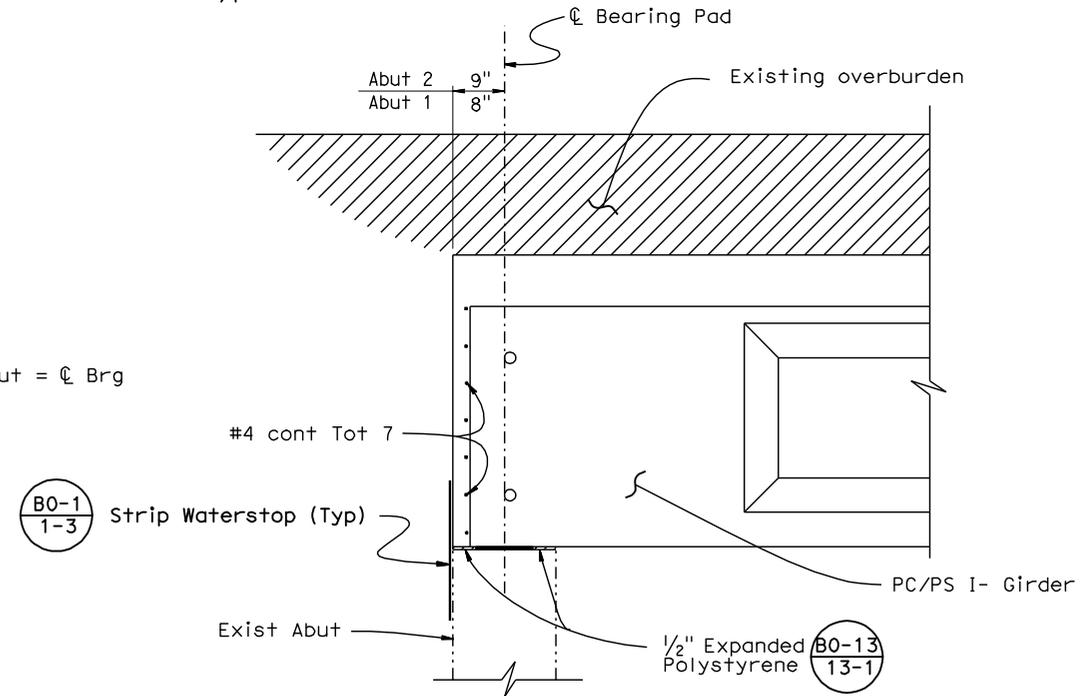
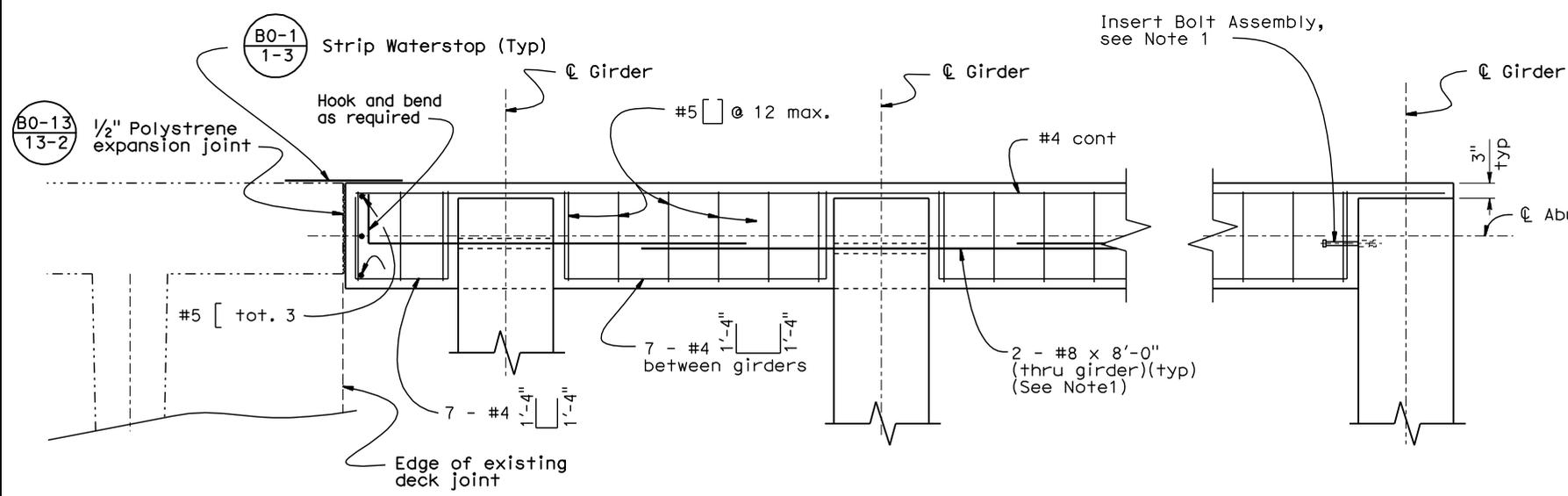
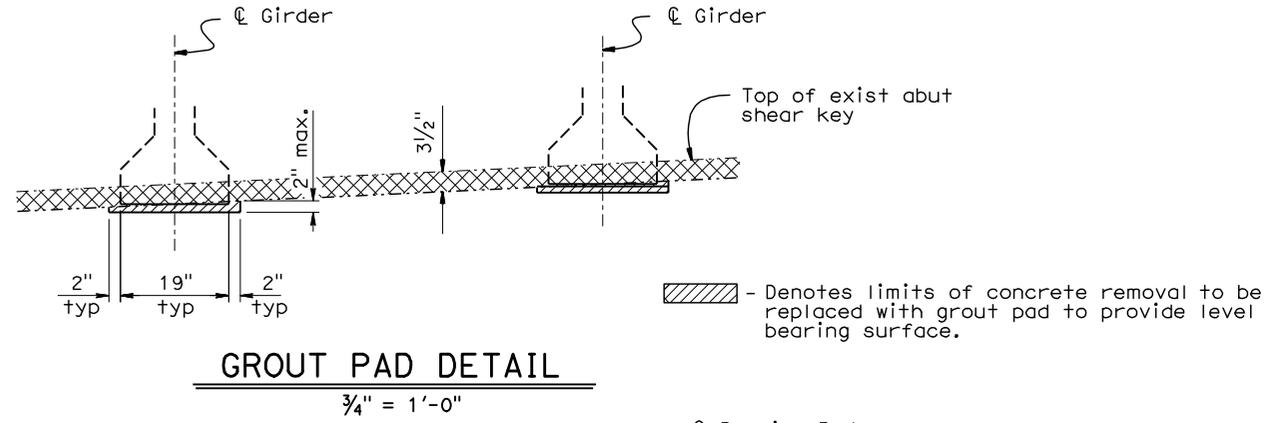
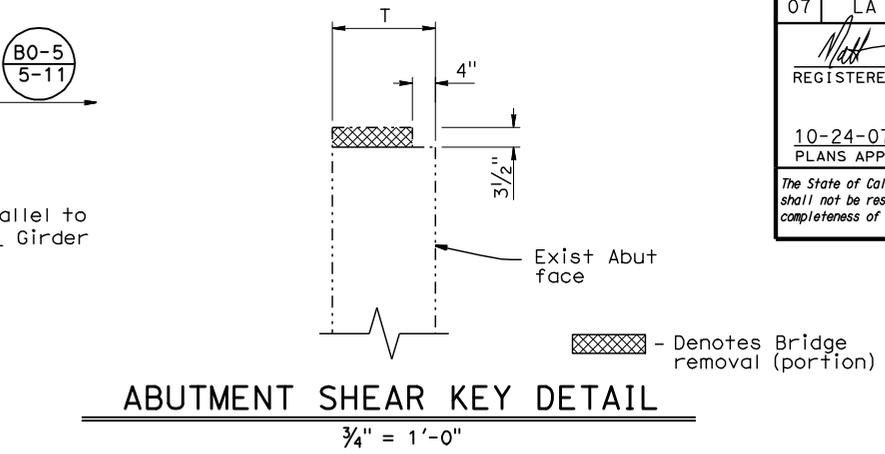
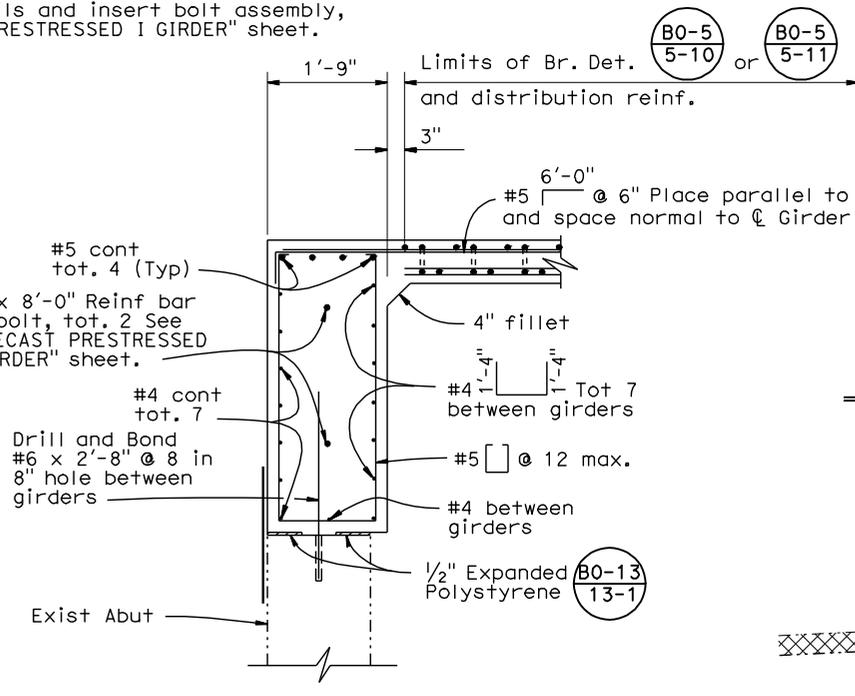
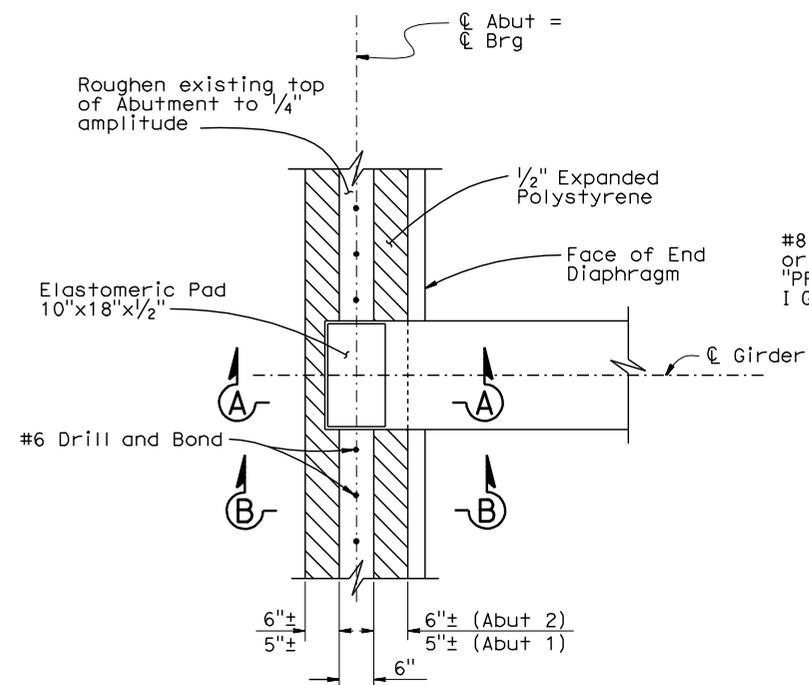
BRIDGE NO. 53-1959  
POST MILE 45.7

**TRUCK ROUTE UNDERCROSSING (REPAIR)**  
**GIRDER LAYOUT**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	C45.4/C46.1	53	61
10-23-07 REGISTERED CIVIL ENGINEER DATE					
10-24-07 PLANS APPROVAL DATE					
<small>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.</small>					

Note 1

For dowel details and insert bolt assembly, see "PRECAST PRESTRESSED I GIRDER" sheet.



NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

For details not shown' see "Section B-B"

DESIGN BY Mike Pope CHECKED Gary Hight DETAILS BY Schenck / Thorne CHECKED Gary Hight QUANTITIES BY Mike Pope CHECKED Gary Hight	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 12	BRIDGE NO. 53-1959	TRUCK ROUTE UNDERCROSSING (REPAIR) END DIAPHRAGM DETAILS	
			POST MILE 45.7		
			BRIDGE NO. 53-1959 POST MILE 45.7		
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07 EA 1X8401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 10 OF 18

USERNAME => hrmikes DATE PLOTTED => 28-OCT-2007 TIME PLOTTED => 14:10

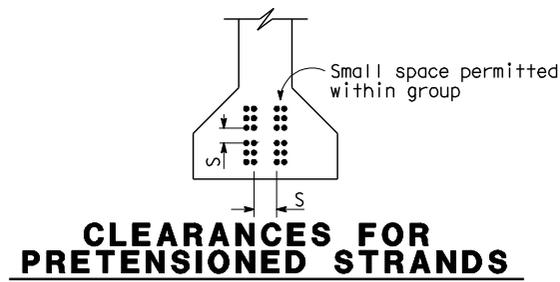
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	C45.4/C46.1	54	61

10-23-07  
REGISTERED CIVIL ENGINEER DATE

10-24-07  
PLANS APPROVAL DATE

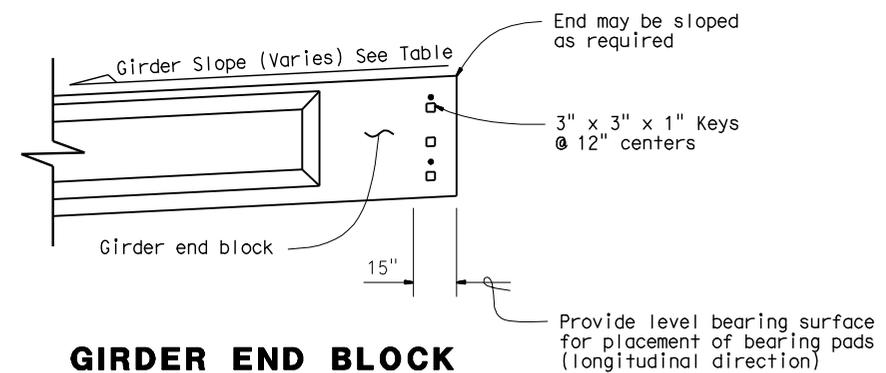
M. A. HOLM  
No. 53312  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

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.



### CLEARANCES FOR PRETENSIONED STRANDS

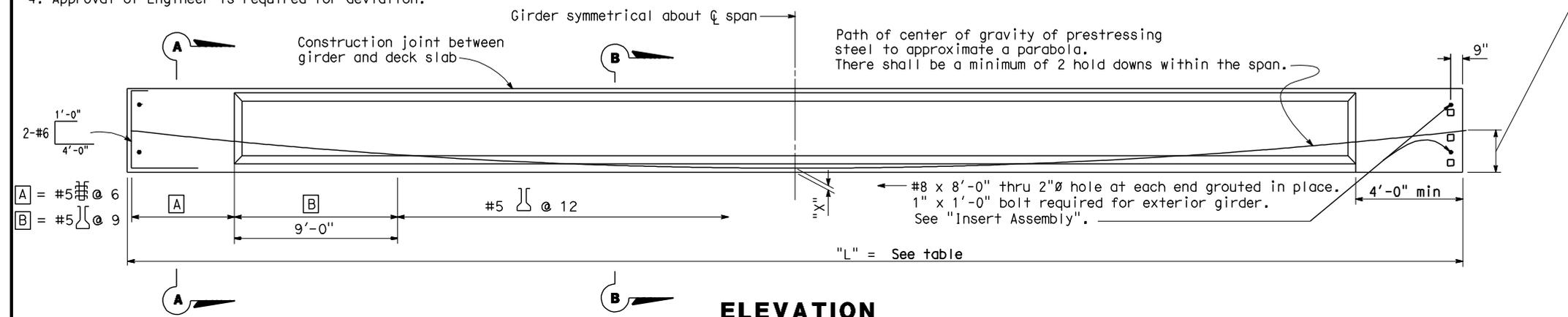
1. Strands may be bundled in groups consisting of 3 vertically 2 horizontally, and separated at the ends.
2. The min distance "S" between groups or individual strands is 1/2" for 3/8" strands, 1 3/4" for 7/16" strands and 2" for 1/2" strands and 0.6" strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of Engineer is required for deviation.



### GIRDER END BLOCK

### PRESTRESSING NOTES

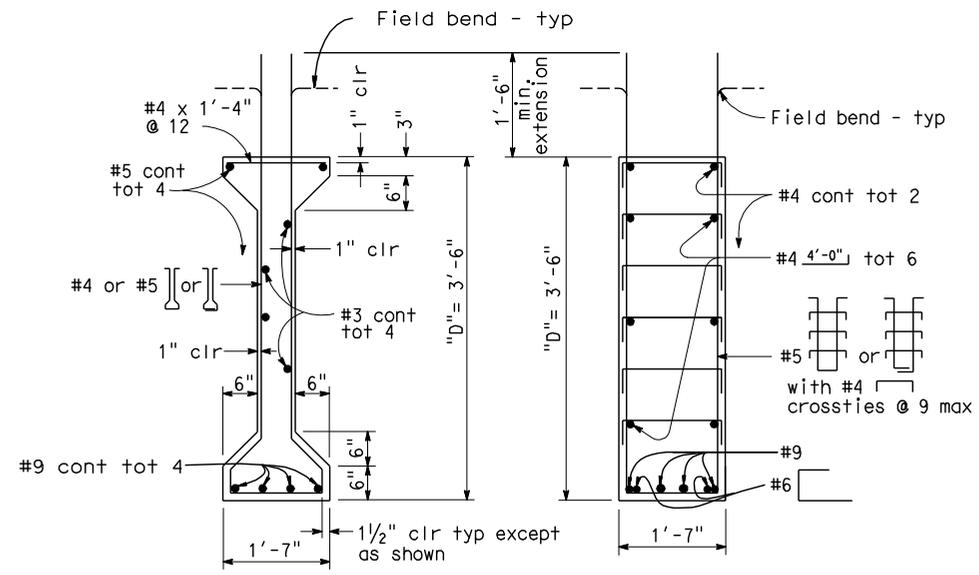
WORKING FORCE: The force required at center of span after all losses.  
 CONCRETE STRENGTH:  $f'_{ci}$  (Ksi) is at time of initial stressing,  $f'_c$  (Ksi) is at 28 days  
 Scribed line elevations for deck concrete will be determined by the Engineer.  
 Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.



### ELEVATION

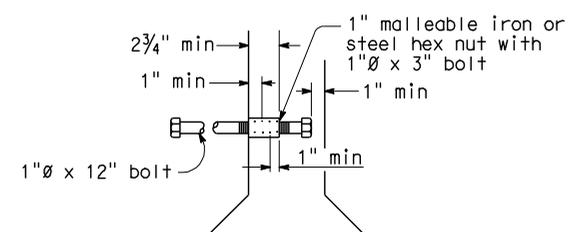
Notes:  
 Details shown are for pretensioned girders.  
 The Contractor may submit details for post-tensioning which shall be subject to the approval of the Engineer.

Girder Location	Girder Length (ft±)	"X1" (in)	P1 = Working Force (kips)	"X2" (in)	P1 = Working Force (kips)	Concrete Strength		Girder Slope % ±
						$f'_{ci}$ (ksi)	$f'_c$ (ksi)	
(A)	53.73	4	550	6	590	5	6	5.31
(B)	53.91	4	550	6	590	5	6	4.88
(C)	54.08	4	550	6	590	5	6	4.54
(D)	54.23	4	550	6	590	5	6	4.18
(E)	54.37	4	550	6	590	5	6	3.80
(F)	54.50	4	550	6	590	5	6	3.44
(G)	54.61	4	550	6	590	5	6	3.07
(H)	54.71	4	550	6	590	5	6	2.72
(I)	54.80	4	550	6	590	5	6	2.37
(J)	54.87	4	550	6	590	5	6	2.00
(K)	54.94	4	550	6	590	5	6	1.66
(L)	54.98	4	550	6	590	5	6	1.30
(M)	55.02	4	550	6	590	5	6	0.93
(N)	55.04	4	550	6	590	5	6	0.57
(O)	55.05	4	550	6	590	5	6	0.23



### SECTION B-B

### SECTION A-A



### INSERT ASSEMBLY

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NO SCALE

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY P. Rimal	CHECKED Gary Hight	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 12	BRIDGE NO.	53-1959	TRUCK ROUTE UNDERCROSSING (REPAIR)	
	DETAILS	BY Steven Schenck	CHECKED Gary Hight			POST MILE	45.7		PRECAST PRESTRESSED I GIRDER
	QUANTITIES	BY Mike Pope	CHECKED Gary Hight			REVISION DATES	10-21-07		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 07  
EA 1X8401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

FILE => 53-1959-k-psi01.dgn

USERNAME => hrmikes DATE PLOTTED => 28-OCT-2007 TIME PLOTTED => 14:10

GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
(S)	SURFACE INCANDESCENT, METAL HALIDE OR SODIUM VAPOR FIXTURE
(R)	RECESSED INCANDESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE
(B)	BLANK OUTLET
(D)	DROP CORD
(J)	JUNCTION BOX
(X)	EXIT LIGHT
(OR)	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE
(O)	RECESSED INDIVIDUAL FLUORESCENT FIXTURE
(O)	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT FIXTURES

NOTE: A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE.  
EXAMPLE: (4) F 2 - 2 x 32

SYMBOL	DESCRIPTION
Sm	MOTION SENSOR SWITCH
St	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
Shp	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
Ts	TIMER SWITCH
(S)	SWITCH AND SINGLE RECEPTACLE
(S)	SWITCH AND DUPLEX RECEPTACLE
(H)	HAND DRYER NOZZLE
(H)	HAND DRYER
(R)	RADIO OUTLET
(T)	TELEPHONE OUTLET
(S)	SOUND SYSTEM LOUD SPEAKER OUTLET
(P)	PUSHBUTTON
(L)	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
(M)	PUSHBUTTON STATION MOTOR CONTROL
(B)	BUZZER
(B)	BELL
(B)	COMBINATION BELL-BUZZER
(T)	THERMOSTAT
(PS)	PRESSURE SWITCH
(R)	CONTROL RELAY
(FS)	FLOW SWITCH
(PEC)	PHOTOELECTRIC CELL
(R)	RADIO OUTLET
(TV)	TELEVISION OUTLET
(M)	MICROPHONE OUTLET
(P)	FLUSH-MOUNTED PANELBOARD AND CABINET
(P)	SURFACE-MOUNTED PANELBOARD AND CABINET
(P)	LIGHTING PANEL
(P)	POWER PANEL
(P)	COMBINATION LIGHTING AND POWER
(MC)	MOTOR CONTROLLER
(D)	DISCONNECT SWITCH
(C)	CONDUIT CONCEALED IN CEILING OR WALL
(C)	CONDUIT CONCEALED IN FLOOR
(E)	CONDUIT EXPOSED
(C)	CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES #12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH #12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT 16 mm UNLESS OTHERWISE NOTED.
(A, A2)	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT.
(SM)	SURFACE METAL RACEWAY
(2) 16C, PVC, 2#12	CONDUCTOR INFO (PER CONDUIT)
(C)	CONDUIT TYPE
(C)	CONDUIT SIZE
(C)	NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
(C)	CONDUIT, METALLIC UNDERGROUND
(PVC)	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
(OH)	OVERHEAD POWER CABLE CONDUCTORS
(F)	CONDUIT, FLEXIBLE
(U)	CONDUIT, TURN UP
(D)	CONDUIT, TURN DOWN
(S)	CONDUIT SEAL, EXPLOSION-PROOF
(X)	CONDUIT, EXPANSION JOINT
(A)	ADAPTER, ONE TYPE CONDUIT TO ANOTHER POLE
(L)	POLE-TOP LUMINAIRE
(A)	POLE-ARM LUMINAIRE

SYMBOL	DESCRIPTION
(H)	HEAT DETECTOR
(S)	SMOKE DETECTOR
(P)	MANUAL PULL STATION
(AV)	AUDIO/VISUAL ALARM DEVICE
(G)	GLASS BREAK DISCRIMINATOR
(C)	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
(C)	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
(K)	KEYPAD FOR ALARM SYSTEM
(W)	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
( )	PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
( ) (T)	PULL BOX (TRAFFIC RATED)-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
(CHLF)	COMBINATION HEAT, LIGHT AND FAN UNIT
(A)	SECTION/ELEVATION LETTER
(EE-2)	SHEET NUMBER
(I)	DETAIL NUMBER
(EE-2)	SHEET NUMBER

REMODEL WORK

SYMBOL	DESCRIPTION
(F)	EXISTING FLUORESCENT FIXTURE-TO REMAIN
(X)	EXISTING FLUORESCENT FIXTURE-REMOVE
(I)	EXISTING INCANDESCENT FIXTURE-TO REMAIN
(X)	EXISTING INCANDESCENT FIXTURE-REMOVE
(O)	EXISTING OUTLET-TO REMAIN
(X)	EXISTING RECEPTACLE OUTLET-TO REMAIN
(X)	EXISTING RECEPTACLE OUTLET-REMOVE
(-E-E-)	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
(-X-X-)	EXISTING CONDUIT AND CONDUCTORS-REMOVE
(S)	EXISTING SWITCH-TO REMAIN
(X)	EXISTING SWITCH-REMOVE
(J)	EXISTING JUNCTION BOX-TO REMAIN
(X)	EXISTING JUNCTION BOX-REMOVE

STANDARD NOTES

(AB)	ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
(BC)	INSTALL PULL BOX IN EXISTING CONDUIT RUN.
(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 ROPE AND PLUG.
(FA)	REMOVE FOUNDATION ABOVE GRADE AND ABANDON FOUNDATION BELOW GRADE.
(RL)	RELOCATE EQUIPMENT.
(RLD)	RELOCATED EQUIPMENT.
(SC)	SPLICE NEW TO EXISTING CONDUCTORS.
(RC)	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

SYMBOL	DESCRIPTION
(C)	CIRCUIT BREAKER, SINGLE POLE
(C)	CIRCUIT BREAKER, DOUBLE POLE
(C)	CIRCUIT BREAKER, THREE POLE
(GFCI)	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
(O)	CONTACT, NORMALLY OPEN
(C)	CONTACT, NORMALLY CLOSED
(C)	CONTACT, NORMALLY CLOSED, TIME DELAY CLOSING ON DE-ENERGIZING
(C)	CONTACT, NORMALLY OPEN, TIME DELAY OPENING ON DE-ENERGIZING
(C)	CONTACT, NORMALLY OPEN, TIME DELAY CLOSING ON ENERGIZING
(C)	CONTACT, NORMALLY CLOSED, TIME DELAY OPENING ON ENERGIZING
(C)	CONTACT, SINGLE POLE DOUBLE-THROW
(C)	OPERATING COIL
(C)	LIQUID LEVEL ACTUATED SWITCH, NORMALLY CLOSED
(C)	LIQUID LEVEL ACTUATED SWITCH, NORMALLY OPEN
(C)	PRESSURE ACTUATED SWITCH, NORMALLY CLOSED
(C)	PRESSURE ACTUATED SWITCH, NORMALLY OPEN
(C)	FLOW ACTUATED SWITCH, NORMALLY CLOSED
(C)	FLOW ACTUATED SWITCH, NORMALLY OPEN
(C)	TEMPERATURE ACTUATED SWITCH, NORMALLY CLOSED
(C)	TEMPERATURE ACTUATED SWITCH, NORMALLY OPEN
(C)	LIMIT SWITCH, NORMALLY CLOSED
(C)	LIMIT SWITCH, NORMALLY OPEN
(C)	PUSHBUTTON SWITCH, NORMALLY CLOSED
(C)	PUSHBUTTON SWITCH, NORMALLY OPEN
(C)	SWITCH, SINGLE-POLE
(C)	SWITCH, SINGLE-POLE, DOUBLE-THROW
(C)	SWITCH, DOUBLE-POLE
(C)	SWITCH, DOUBLE-POLE, DOUBLE-THROW
(C)	SWITCH, SINGLE-POLE, 3-POSITION
(C)	THERMAL OVERLOAD
(C)	FUSE
(C)	RESISTOR
(C)	VARIABLE RESISTOR
(C)	TRANSFORMER WINDING
(C)	GROUNDING ELECTRODE
(C)	ENCLOSURE BOND
(A)	PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
(G)	GENERATOR
(M)	MOTOR
(F)	FAN MOTOR

PROJECT NOTES

- SEPARATE GROUND (NEUTRAL) CONDUCTOR SHALL BE USED FOR EACH 120-VOLT CIRCUIT.
- HOMERUNS TO PANELBOARDS SHALL BE INSTALLED AS SHOWN ON THE PLANS. HOMERUNS SHALL NOT BE COMBINED.
- A SINGLE INSULATED EQUIPMENT GROUNDING CONDUCTOR (SIZED AS REQUIRED) SHALL BE INSTALLED IN EACH CONDUIT RUN.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	55	61

*Jasvinder S. Sandhu*  
REGISTERED ELECTRICAL ENGINEER DATE 10/22/07  
No. 11803  
Exp. 9-20-08  
ELEC  
STATE OF CALIFORNIA

10-24-07  
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.

ABBREVIATIONS

A	AMPERES
A/C	AIR CONDITIONING UNIT
ACS	AIR COMPRESSOR STARTER
AI	ANALOG INPUT
AL	ALARM LIGHT
AO	ANALOG OUTPUT
AVC	AIR VOLUME CONTROLLER
BD	BUILDING DISCONNECT
BRK	BREAKER
CB	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CSW	CURRENT SWITCH
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DUPLEX PLUG RECEPTACLE
DS	DOOR SWITCH
(E)	EXISTING
EF	EXHAUST FAN
F	FUSE
FL	FAILURE LIGHT
FLA	FLASHER
FLEX	FLEXIBLE CONDUIT
FLS	FLOW SWITCH
FR	FAILURE RESET
FS	FLOAT SWITCH
G	GROUND
G/B	GROUND BUS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
IR	INDUCTION RELAY
JB	JUNCTION BOX
L	LIGHT
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LD	LIGHT DISCONNECT
LP	LIGHT PANEL
LS	LIGHT SWITCH
MB	MAIN BREAKER
MC	METALLIC CONDUIT
MCP	MOTOR CIRCUIT PROTECTOR
MCC	MOTOR CONTROL CENTER
MSB	MAIN SWITCHBOARD
MT	EMPTY CONDUIT
(N)	NEW
N/B	NEUTRAL BUS
NO	NORMALLY OPEN
NSW	NEUTRAL SWITCHING BREAKER
OL	OVERLOAD
P	POLE
PB	PULL BOX
PB	PUSHBUTTON
PFR	PHASE FAILURE RELAY
PFRD	PHASE FAILURE RELAY DISCONNECT
PEC	PHOTOELECTRIC CELL
PL	PILOT LIGHT
PS	PRESSURE SWITCH
PVC	POLYVINYL CHLORIDE
RSC	RIGID STEEL CONDUIT
S	STARTER COIL
SD	SERVICE DISCONNECT
SFR	SEAL FAILURE RELAY
SL	SUMP LIGHT
SPR	STANDBY POWER RECEPTACLE
SS	SELECTOR SWITCH
ST	STARTER
TB	TERMINAL BLOCK
TS	TIMER SWITCH
TSW	TEST SWITCH
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
WLS	WATER LEVEL SWITCH
WP	WEATHERPROOF

DESIGN	BY <i>Lee/Jesse Sandhu</i>	CHECKED <i>J.S.Sandhu</i>
DETAILS	BY <i>Ed D.Tapalla 10/07</i>	CHECKED <i>J.S.Sandhu</i>
QUANTITIES	BY <i>Tommy Lee</i>	CHECKED <i>J.S.Sandhu</i>

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	53-1959
POST MILE	45.7

TRUCK ROUTE UNDERCROSSING (REPAIR)

LEGEND

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
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CU 07383  
EA 1X8401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF
10/22/07		12	18

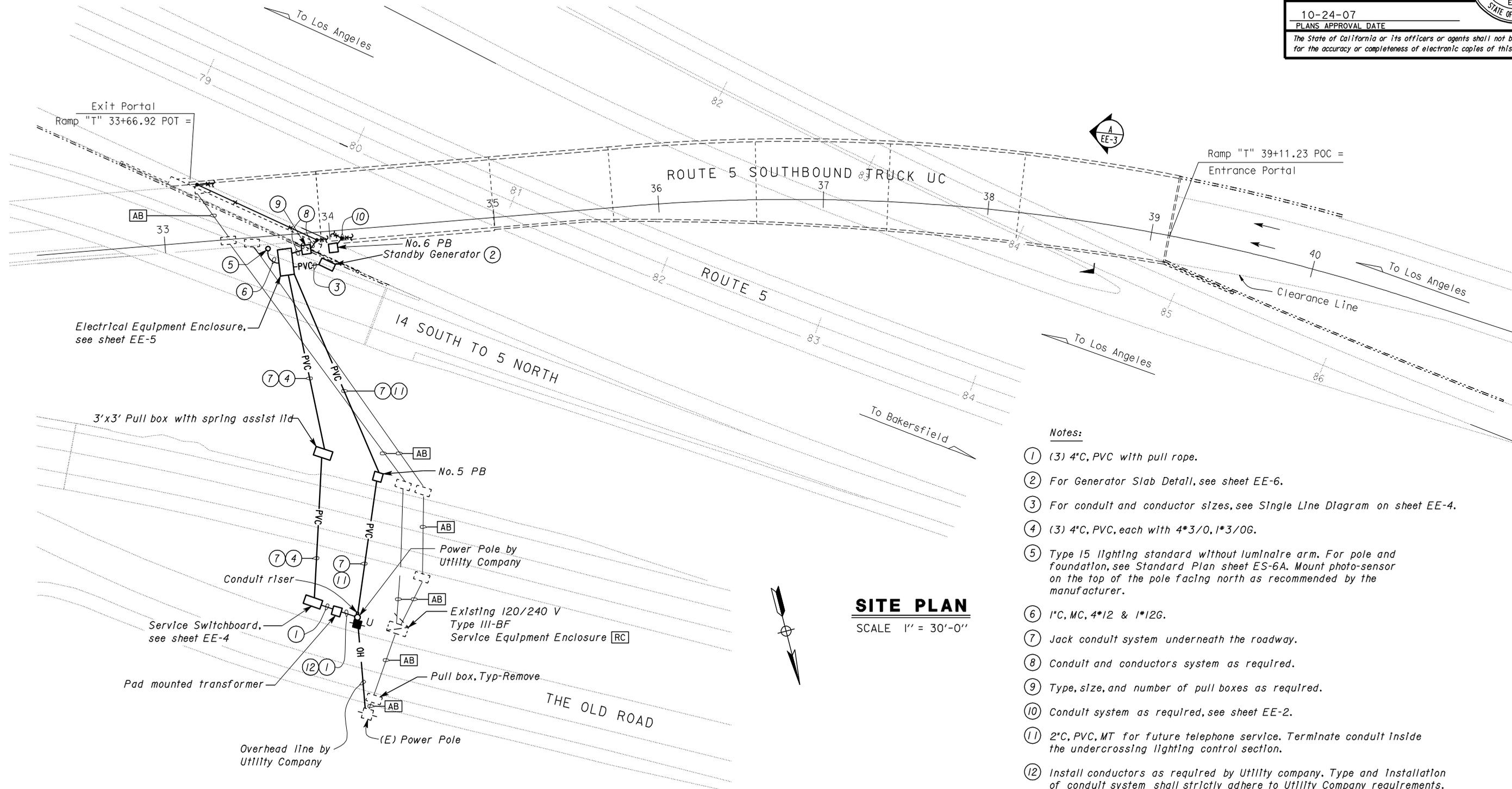
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	56	61

*Jaswinder S Sandhu*  
REGISTERED ELECTRICAL ENGINEER DATE 10/22/07

**J.S.SANDHU**  
No. 11803  
Exp. 9-20-08  
ELEC  
STATE OF CALIFORNIA

10-24-07  
PLANS APPROVAL DATE

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- Notes:**
- ① (3) 4"C, PVC with pull rope.
  - ② For Generator Slab Detail, see sheet EE-6.
  - ③ For conduit and conductor sizes, see Single Line Diagram on sheet EE-4.
  - ④ (3) 4"C, PVC, each with 4\*3/0, 1\*3/0G.
  - ⑤ Type 15 lighting standard without luminaire arm. For pole and foundation, see Standard Plan sheet ES-6A. Mount photo-sensor on the top of the pole facing north as recommended by the manufacturer.
  - ⑥ 1"C, MC, 4\*12 & 1\*12G.
  - ⑦ Jack conduit system underneath the roadway.
  - ⑧ Conduit and conductors system as required.
  - ⑨ Type, size, and number of pull boxes as required.
  - ⑩ Conduit system as required, see sheet EE-2.
  - ⑪ 2"C, PVC, MT for future telephone service. Terminate conduit inside the undercrossing lighting control section.
  - ⑫ Install conductors as required by Utility company. Type and installation of conduit system shall strictly adhere to Utility Company requirements.

**SITE PLAN**  
SCALE 1" = 30'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN SUPERVISOR <i>J. Sandhu</i>	DESIGN	BY Lee/Jesse Sandhu	CHECKED J.S.Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	53-1959	<b>TRUCK ROUTE UNDERCROSSING (REPAIR)</b>	SHEET <b>EE-1</b>	
	DESIGN ENGINEER <i>Jaswinder S Sandhu</i>	DETAILS	BY Ed D. Tapalla 10/07			CHECKED J.S.Sandhu				POST MILE
	QUANTITIES	BY Tommy Lee	CHECKED J.S.Sandhu			SITE PLAN			SHEET OF	
DOES SD Imperial Rev. 1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07383 EA 1X8401	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)			13 OF 18

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	57	61

<i>Jaswinder S Sandhu</i> REGISTERED ELECTRICAL ENGINEER DATE 10/22/07		REGISTERED PROFESSIONAL ENGINEER No. 11803 Exp. 9-20-08 ELEC STATE OF CALIFORNIA
10-24-07 PLANS APPROVAL DATE		

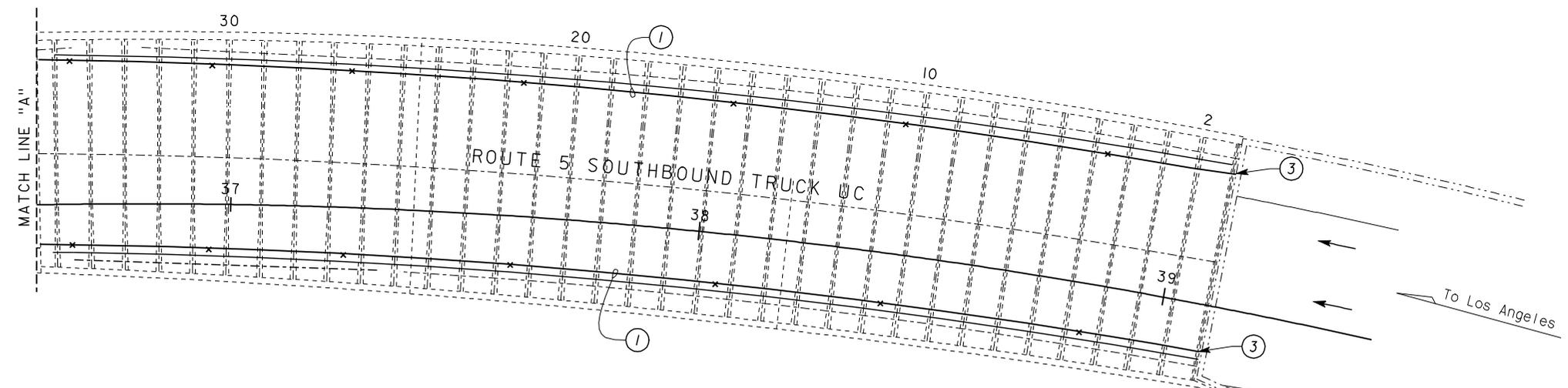
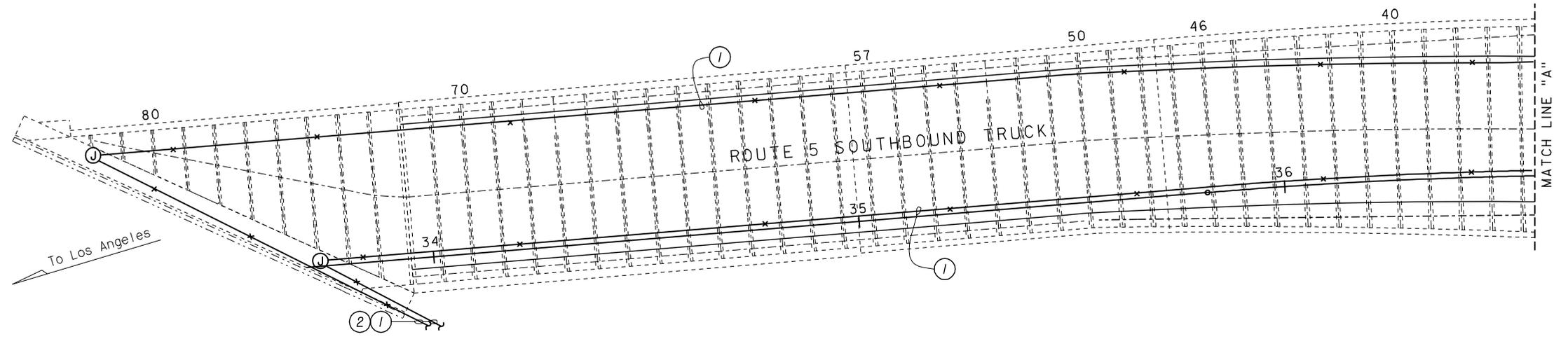
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**General Notes:**

A. Remove all existing luminaries, conduits and conductors from inside of the existing undercrossing.

B. Install undercrossing lighting, junction boxes, conduit and conductors system and supporting/anchorage devices. For Information, see Specifications.

- Notes:**
- (1) (3) 1" empty conduits on Abutment wall 6" below ceiling with weatherproof junction at every 100 feet.
  - (2) Terminate all conduits inside No.6 pull box near the Electrical Equipment Enclosure for future use. For continuation, see plan sheet EE-1.
  - (3) Capped conduits for future use.



  
**UNDERCROSSING LAYOUT**  
 NO SCALE

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DESIGN BY <i>Lee/Jesse Sandhu</i>	CHECKED <i>J.S.Sandhu</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	<b>TRUCK ROUTE UNDERCROSSING (REPAIR)</b>	SHEET <b>EE-2</b>
				53-1959		
DETAILS BY <i>Ed D.Tapalla 10/07</i>	CHECKED <i>J.S.Sandhu</i>	DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE	UNDERCROSSING LAYOUT	OF
QUANTITIES BY <i>Tommy Lee</i>	CHECKED <i>J.S.Sandhu</i>			45.7		14
DOES SD Imperial Rev.1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07383 EA 1X8401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	18
					10/22/07	ee_2.dgn

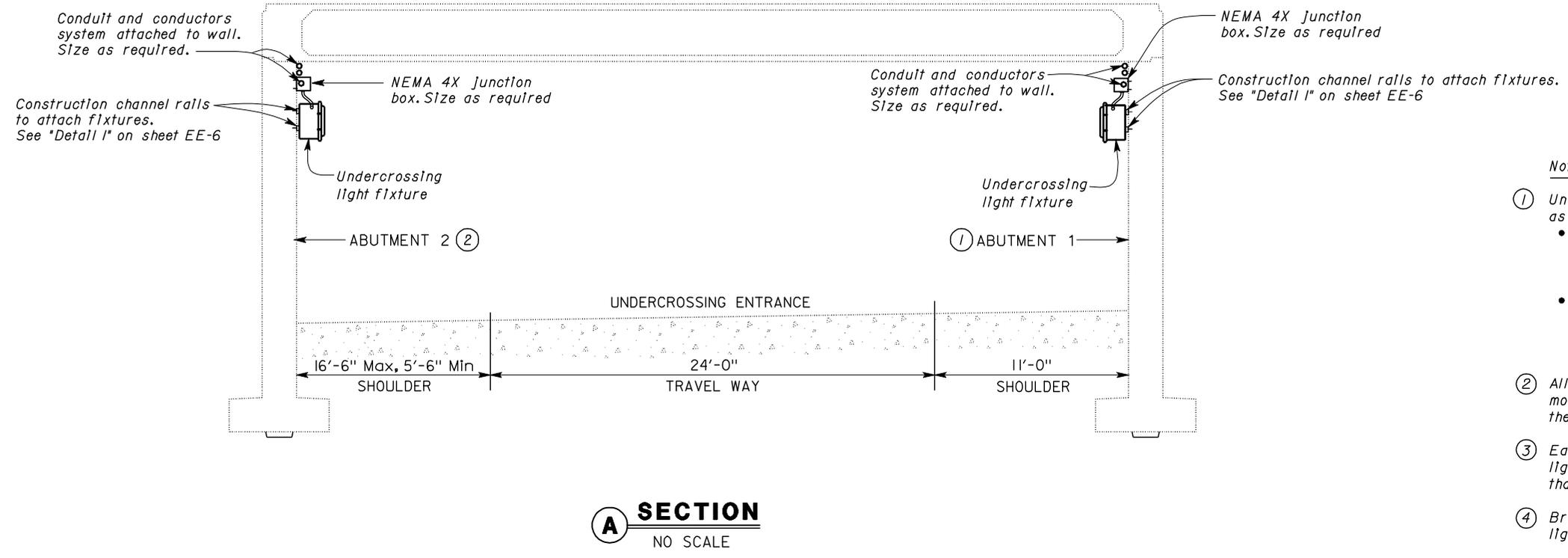
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	58	61

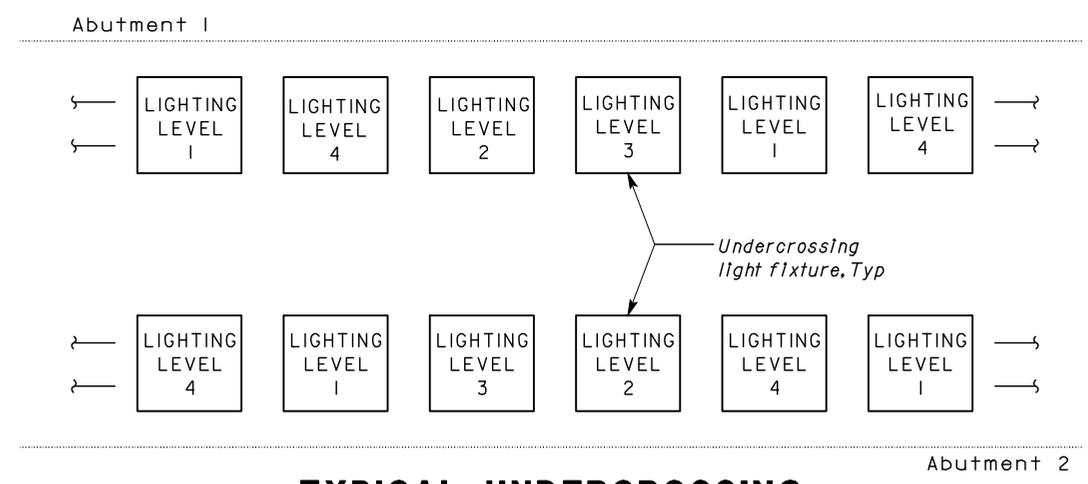
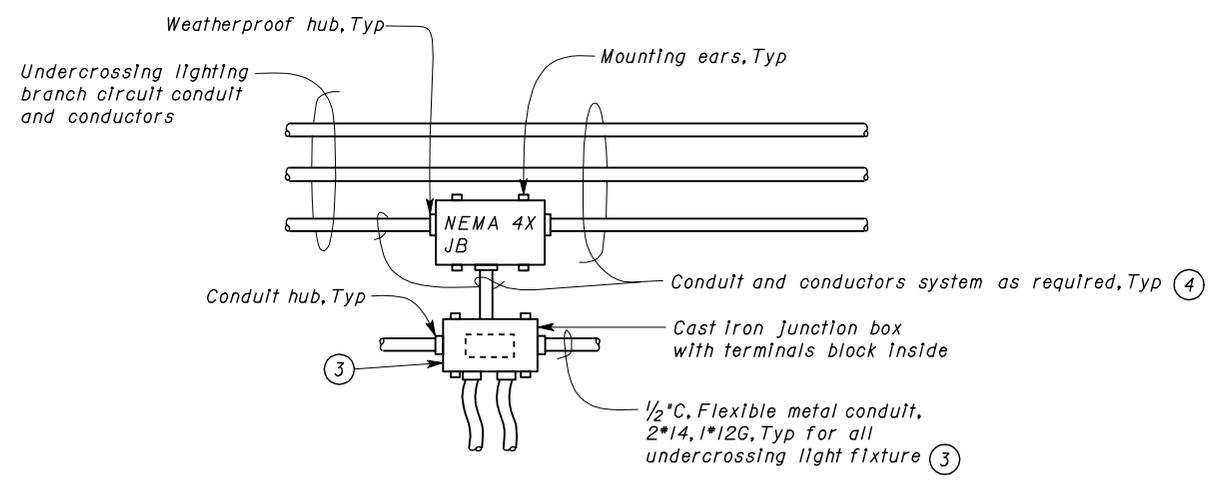
  

<i>Jaswinder S Sandhu</i> REGISTERED ELECTRICAL ENGINEER DATE 10/22/07		
10-24-07 PLANS APPROVAL DATE		

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- Notes:
- Undercrossing light fixture on Abutment 1 shall be mounted as follows:
    - In the length of the undercrossing where 16'-6" mounting height cannot be achieved, light fixture shall be mounted at impaired height as directed by the Engineer.
    - In the length of the undercrossing where 16'-6" mounting height can be achieved, light fixture shall be mounted at 16'-6" to the bottom of the fixture from the top of the roadway surface for the remainder of the length of the undercrossing.
  - All undercrossing lighting fixtures on Abutment 2 shall be mounted at 16'-6" to the bottom of the fixture from the top of the roadway surface throughout the length of the undercrossing.
  - Each junction box shall supply no more than four undercrossing light fixtures. In no case flexible metal conduit length is longer than four feet. Secure conduits to wall as required.
  - Branch circuits shall be designed in a manner so that 25% of the light fixtures could be turned off if required.



**TYPICAL UNDERCROSSING LIGHT FIXTURE CONNECTION LAYOUT**

DESIGN BY <i>Lee/Jesse Sandhu</i> CHECKED <i>J.S. Sandhu</i>				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 53-1959	<b>TRUCK ROUTE UNDERCROSSING (REPAIR)</b> UNDERCROSSING SECTION AND ELECTRICAL DETAILS	SHEET 15 OF 18
DETAILS BY <i>Ed D. Tapalla 10/07</i> CHECKED <i>J.S. Sandhu</i>						POST MILE 45.7		
QUANTITIES BY <i>Tommy Lee</i> CHECKED <i>J.S. Sandhu</i>								

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3
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CU 07383	EA 1X8401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	10/22/07	REVISION DATES (PRELIMINARY STAGE ONLY)						
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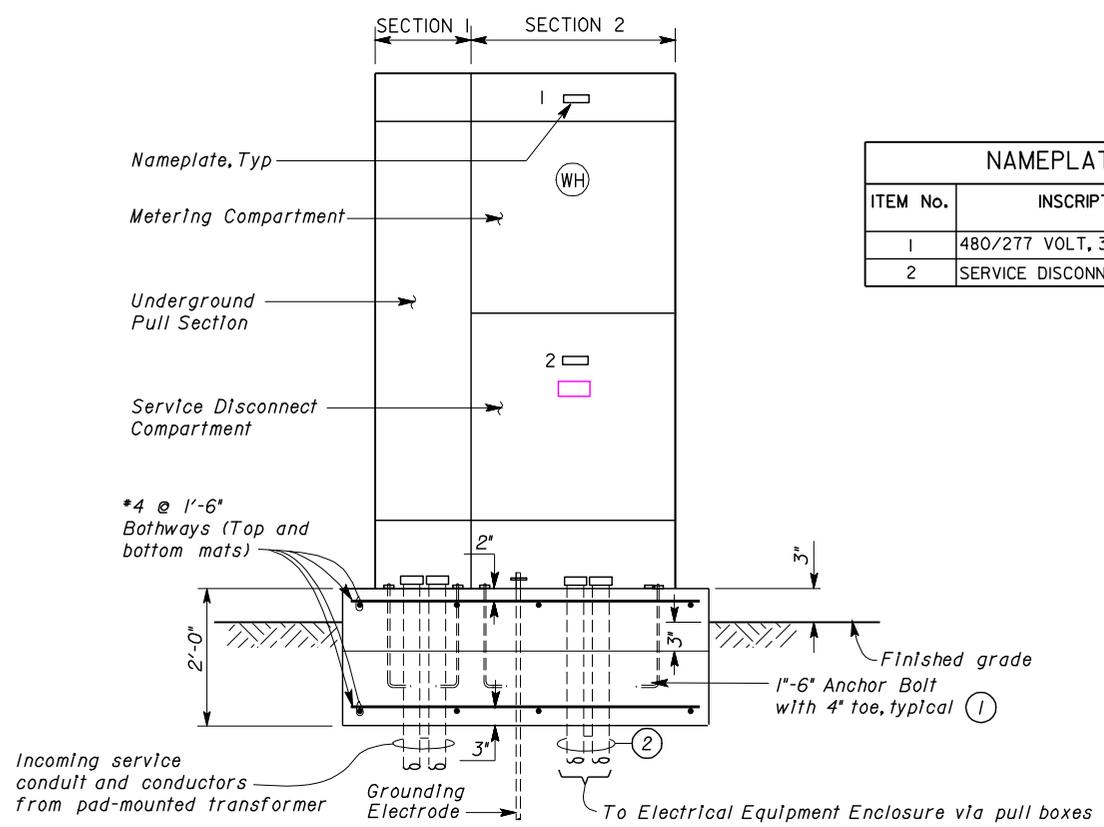
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	59	61

**Jaswinder S Sandhu**  
 REGISTERED ELECTRICAL ENGINEER  
 DATE 10/22/07  
 No. 11803  
 Exp. 9-20-08  
 ELEC  
 STATE OF CALIFORNIA

10-24-07  
PLANS APPROVAL DATE

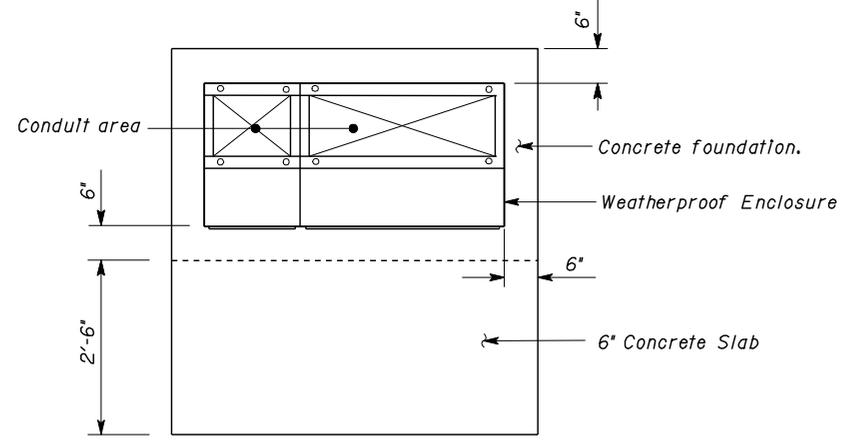
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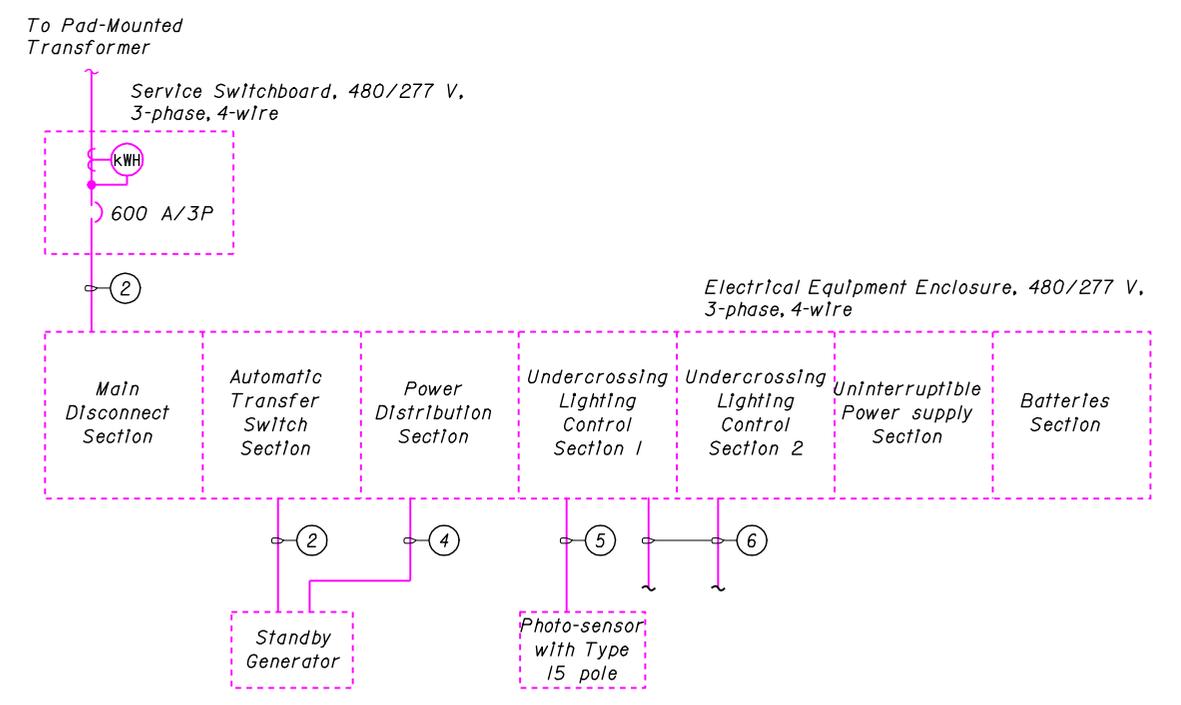
NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER SIZE (INCH)
1	480/277 VOLT, 3-PHASE, 4-WIRE	1/4
2	SERVICE DISCONNECT	1/2

- Notes:**
- Install anchor bolts at location to suit switchboard furnished.
  - (3) 4"C, each with 4\*3/0, 1\*3/0G.
  - All circuit breaker handles shall be operable with interior door closed. Circuit breakers nameplates shall be mounted on interior door.
  - 1" PVC, 2\*12 for battery charger and 2\*12 for Engine water Jacket heater.  
-1 PVC, Control conductors as required for automatic operation of the Standby Generator.
  - 1"C, MC, 4\*12 & 1\*12G.
  - Conduit and conductors system as required.

**ELEVATION**  
(WEATHERPROOF ENCLOSURE NOT SHOWN)



**PLAN**  
**SERVICE SWITCHBOARD**  
NO SCALE (3)



**SINGLE LINE DIAGRAM**

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DESIGN	BY Lee/Jesse Sandhu	CHECKED J.S.Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	<b>TRUCK ROUTE UNDERCROSSING (REPAIR)</b>	SHEET OF <b>EE-4</b>		
	DETAILS	BY Ed D.Tapalla 10/07			CHECKED J.S.Sandhu			53-1959	
	QUANTITIES	BY Tommy Lee			CHECKED J.S.Sandhu			POST MILE 45.7	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 07383 EA 1X8401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	10/22/07	SHEET OF 16 18

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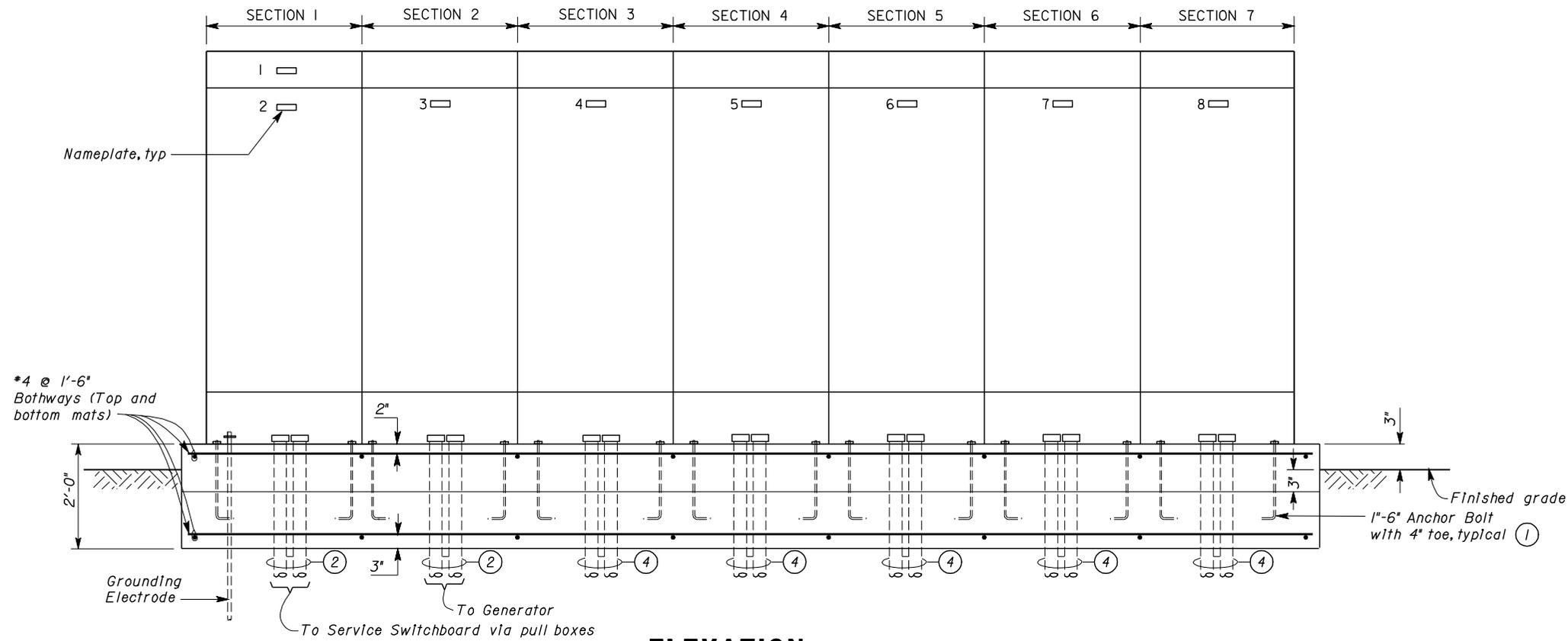
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	60	61

*Jaswinder S Sandhu*  
REGISTERED ELECTRICAL ENGINEER DATE 10/22/07

**J.S.SANDHU**  
No. 11803  
Exp. 9-20-08  
ELEC  
STATE OF CALIFORNIA

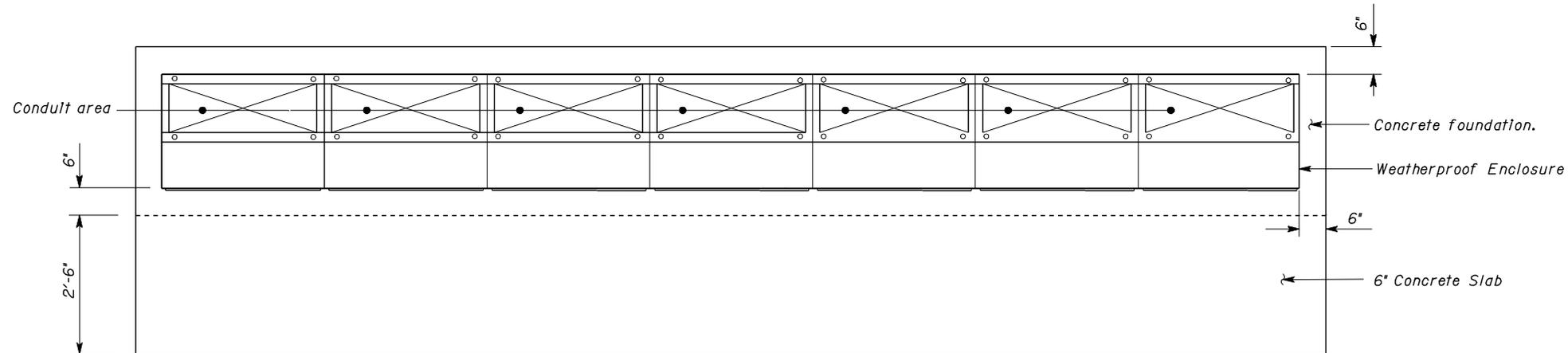
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PLANS APPROVAL DATE

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**ELEVATION**

(WEATHERPROOF ENCLOSURE NOT SHOWN)



**PLAN**

**ELECTRICAL EQUIPMENT ENCLOSURE (3)**

NO SCALE

- Notes:
- Install anchor bolts at location to suit switchboard furnished.
  - (3) 4"C, each with 4\*3/0, 1\*3/0G.
  - All circuit breaker handles shall be operable with interior door closed. Circuit breakers nameplates shall be mounted on interior door.
  - Install conduits and conductors as required.

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER SIZE ( INCH )
1	480/277 VOLT, 3-PHASE, 4-WIRE	1/4
2	MAIN DISCONNECT	1/2
3	AUTOMATIC POWER TRANSFER SWITCH	1/2
4	POWER DISTRIBUTION	1/2
5	UNDERCROSSING LIGHTING CONTROL SECTION 1	1/2
6	UNDERCROSSING LIGHTING CONTROL SECTION 2	1/2
7	UNINTERRUPTIBLE POWER SUPPLY	1/2
8	STORAGE BATTERIES	1/2

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DESIGN BY <i>T Lee/Jesse Sandhu</i> CHECKED <i>J.S.Sandhu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 53-1959	<b>TRUCK ROUTE UNDERCROSSING (REPAIR)</b>	SHEET OF <b>EE-5</b>
			POST MILE 45.7		
DETAILS BY <i>Ed D.Tapalla 10/07</i> CHECKED <i>J.S.Sandhu</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07383 EA 1X8401	DISREGARD PRINTS BEARING EARLIER REVISION DATES → 10/22/07	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF 17 18
QUANTITIES BY <i>Tommy Lee</i> CHECKED <i>J.S.Sandhu</i>					ee_5.dgn

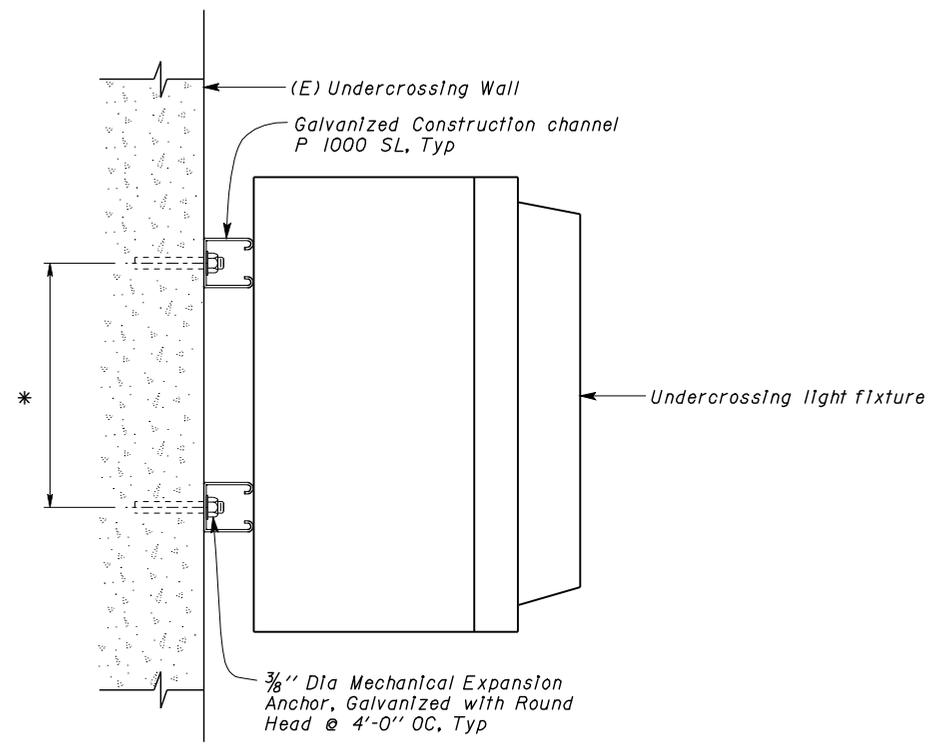
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	C45.4/C46.1	61	61

*Jaswinder S Sandhu*  
REGISTERED ELECTRICAL ENGINEER DATE 10/22/07

REGISTERED PROFESSIONAL ENGINEER  
J.S.SANDHU  
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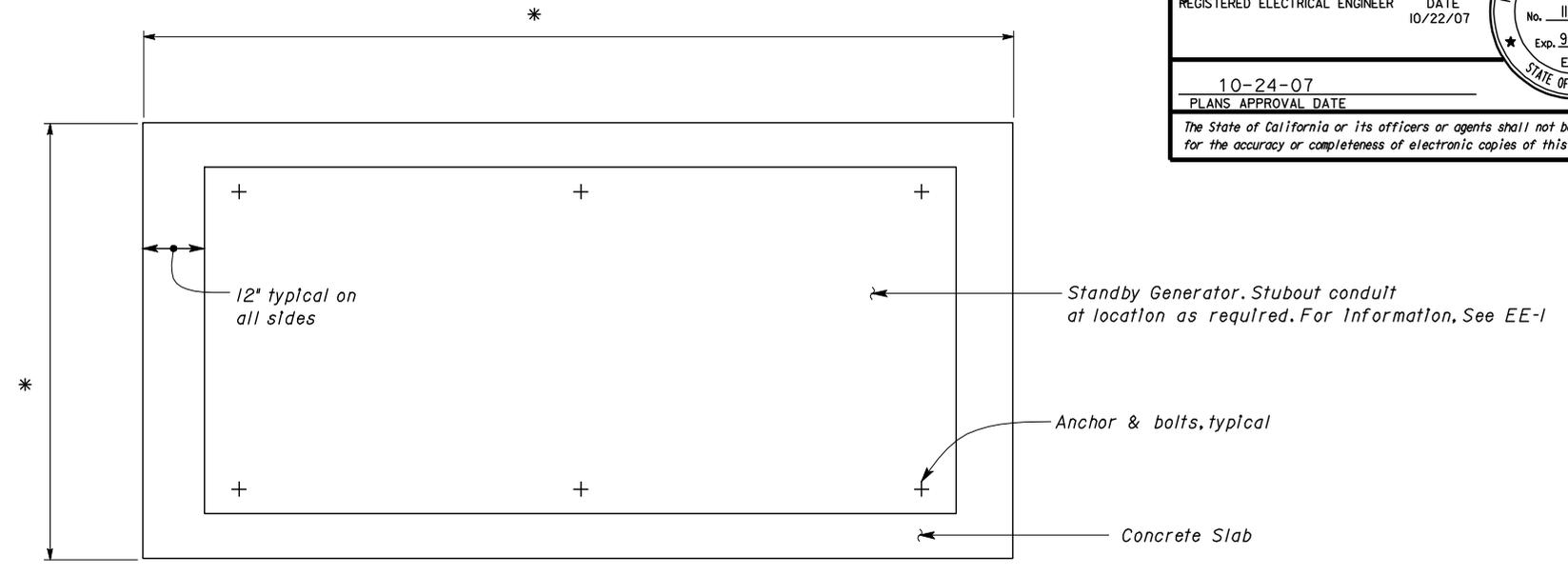
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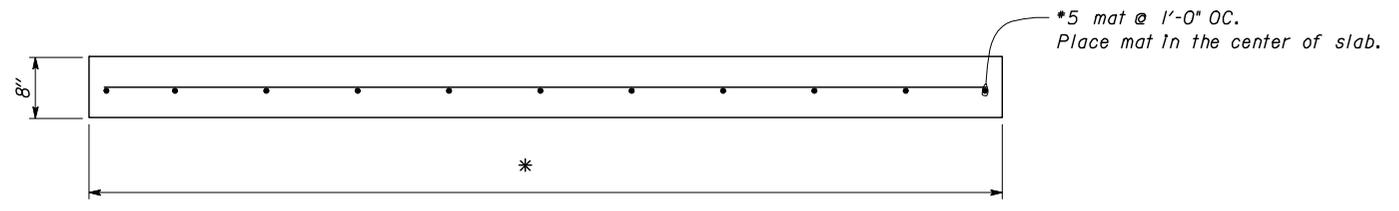
\* Per luminaire manufacturer's requirement

**1 LUMINAIRE MOUNTING DETAIL**  
SCALE 4" = 1'-0"



\* Dimensions as required

**PLAN**  
SCALE 1" = 1'-0"



\* Dimensions as required

**A ELEVATION**  
SCALE 1" = 1'-0"

**STANDBY GENERATOR SLAB**

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN BY <i>Bill Rocha</i>	CHECKED <i>J.S.Sandhu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 53-1959	<b>TRUCK ROUTE UNDERCROSSING (REPAIR)</b>	SHEET OF <b>EE-6</b>	
	REVIEWED BY			CHECKED <i>J.S.Sandhu</i>			POST MILE 45.7
	DETAILS BY <i>Ed D. Tapalla 10/07</i>			CHECKED <i>J.S.Sandhu</i>			
QUANTITIES BY <i>Tommy Lee</i>	CHECKED <i>J.S.Sandhu</i>				LUMINAIRE MOUNTING AND GENERATOR SLAB DETAILS		
DOES SD Imperial Rev.1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 07383 EA 1X8401	DISREGARD PRINTS BEARING EARLIER REVISION DATES → 10/22/07	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF 18 18	28-001-2007 14:11 ee_6.dgn	