

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS AND CONSTRUCTION DETAILS
3	LAYOUT
4	CONSTRUCTION DETAILS
5	CONSTRUCTION AREA SIGNS, TRAFFIC HANDLING PLAN, TRAFFIC HANDLING QUANTITIES AND PAVEMENT DELINEATION PLAN
6	SIGN PLAN, DETAILS AND QUANTITIES
7-8	SUMMARY OF QUANTITIES
9-10	MODIFY LIGHTING
11-28	REVISED AND NEW STANDARD PLANS

BUILDING PLANS

29	GENERAL PLAN
30-35	ARCHITECTURAL PLANS
36-43	STRUCTURAL PLANS
44-72	ELECTRICAL PLANS
73-76	SANITARY PLANS

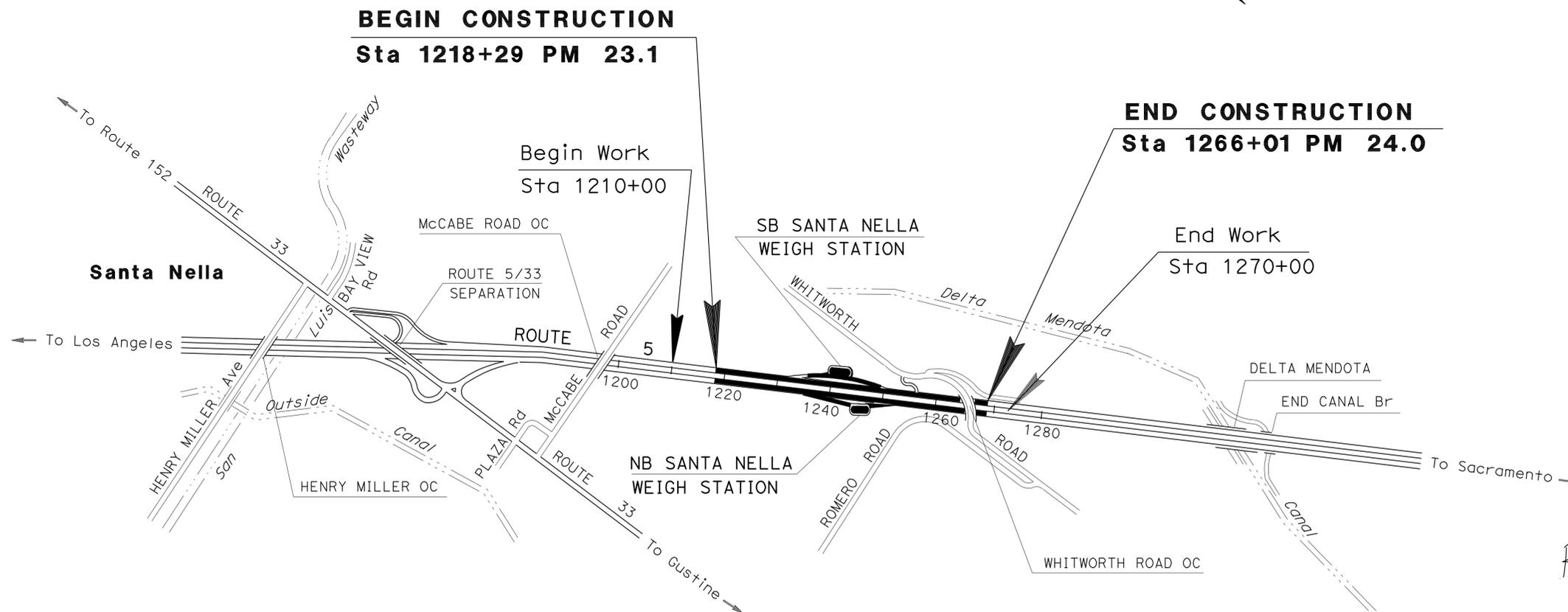
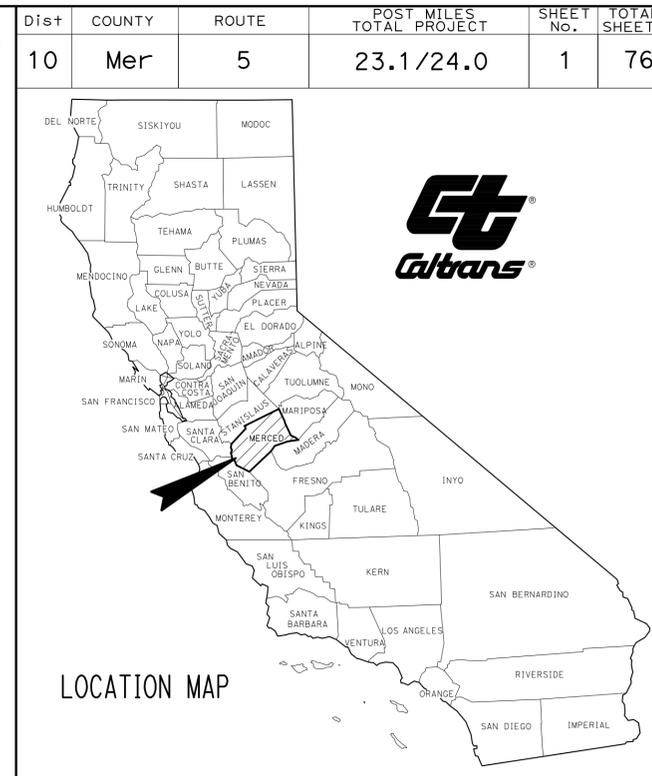
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

IM-005-5(138)408E

PROJECT PLANS FOR BUILDING CONSTRUCTION ON
STATE HIGHWAY
IN MERCED COUNTY
NEAR SANTA NELLA
FROM 0.5 MILE NORTH OF MCCABE ROAD OVERCROSSING
TO 0.2 MILE NORTH OF WHITWORTH ROAD OVERCROSSING
AND AT SANTA NELLA WEIGH STATION

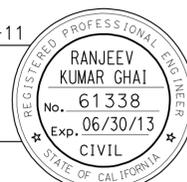
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER
JOY PINNE

DESIGN ENGINEER
SHAHIN MANSOUR

Ranjeet Kumar Ghai 03-30-11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER



December 5, 2011
PLANS APPROVAL DATE

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

CONTRACT No.	10-0S1904
PROJECT ID	1000000233

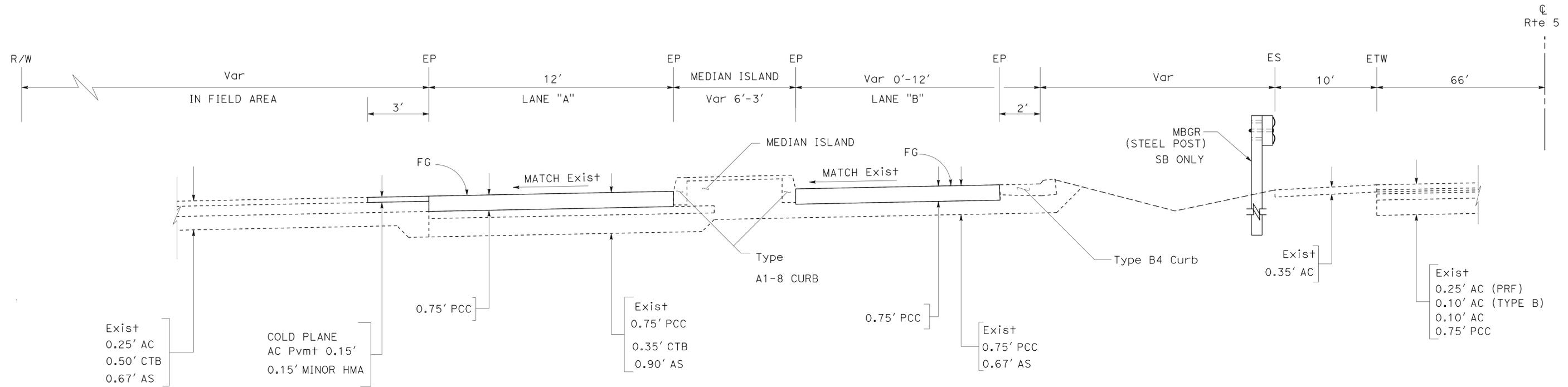
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5	23.1/24.0	2	76
<i>Ranjeev Kumar Ghai</i> REGISTERED CIVIL ENGINEER			11-23-11 DATE		
12-5-11 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

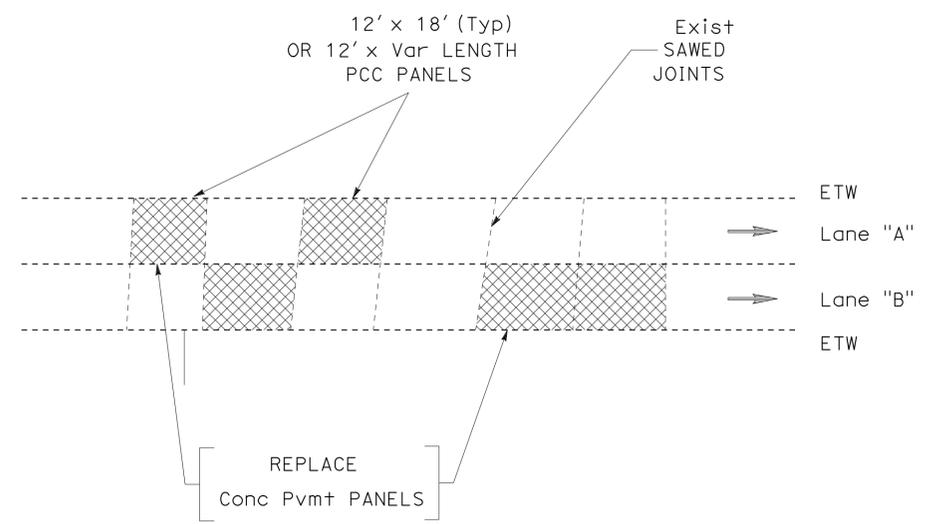
NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SEE SUMMARY OF QUANTITIES FOR LOCATION AND DIMENSIONS OF CONCRETE PANELS TO BE REPLACED. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. TYPICAL CROSS SECTIONS FOR SB WEIGH STATION IS SHOWN, MIRROR VERTICALLY ALONG THE ϕ OF ROUTE 5 FOR NB WEIGH STATION TYPICAL X-SECTION.
4. FOR LOCATION OF MBGR, SEE SHEET L-1.



ROUTE 5

**NB WEIGH STATION
SB WEIGH STATION**



(SEE SHEET Q-2 FOR LOCATIONS AND QUANTITIES)

**TYPICAL REPLACE CONCRETE PAVEMENT
AT WEIGH STATION**

**TYPICAL CROSS SECTIONS
AND
CONSTRUCTION DETAILS**

X-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 06-DESIGN
 FUNCTIONAL SUPERVISOR: SHAHIN MANSOUR
 CALCULATED/DESIGNED BY: SHAHIN MANSOUR
 CHECKED BY:
 REVISIONS: REVISED BY: DATE REVISION:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5	23.1/24.0	3	76

Ranjeev Kumar Ghai 11-23-11
 REGISTERED CIVIL ENGINEER DATE
 12-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 RANJEEV KUMAR GHAI
 No. 61338
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

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

NOTES:

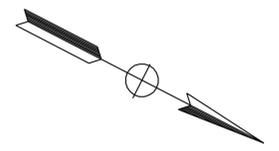
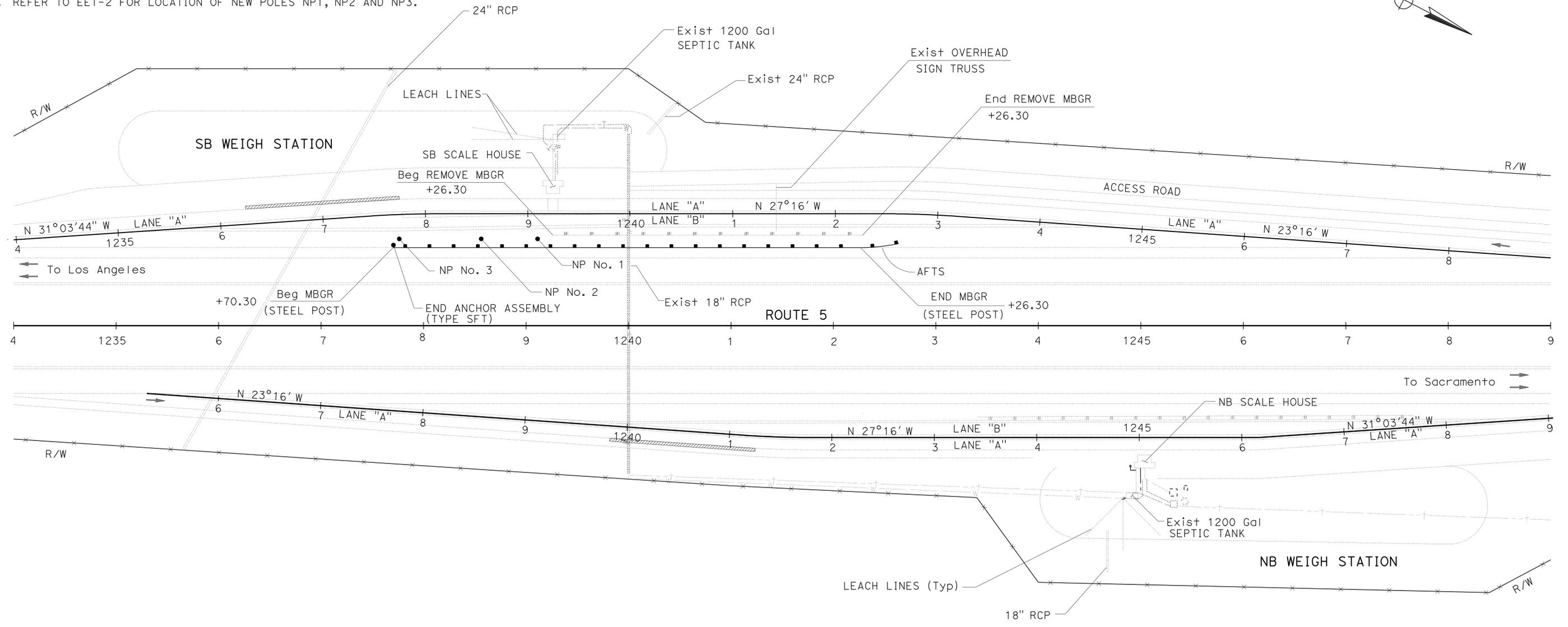
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- SEE SUMMARY OF QUANTITIES FOR LOCATION AND DIMENSIONS OF CONCRETE PANELS TO BE REPLACED, EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- UTILITY OWNERS:
 TELEPHONE - AT&T
 SEWER - CALTRANS
 WATER - SANTA NELLA WATER DISTRICT
- REFER TO EE1-2 FOR LOCATION OF NEW POLES NP1, NP2 AND NP3.

LEGEND:

 COLD PLANE AC PAVEMENT

ABBREVIATIONS:

NP INSTALL NEW POLE
 AFTS ALTERNATIVE FLARED TERMINAL SYSTEM



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 06-DESIGN
 Caltrans®
 FUNCTIONAL SUPERVISOR: SHAHIN MANSOUR
 CALCULATED/DESIGNED BY: SHAHIN MANSOUR
 CHECKED BY: SHAHIN MANSOUR
 REVISED BY: RANJEEV KUMAR GHAI
 DATE REVISED:

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

LAST REVISION: DATE PLOTTED => 07-DEC-2011 TIME PLOTTED => 1:3:34

NOTES: (THIS SHEET)

1. SEE MANUFACTURER PLANS FOR ADDITIONAL DETAILS AND DIMENSIONS NOT SHOWN ON PLANS.
2. SYSTEM TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
3. ONLY TIGHTEN THE CABLE ASSEMBLIES USING THE NUTS AT THE CABLE BRACKET (SEE DETAIL D). DO NOT TIGHTEN THE CABLES AT THE FRONT OF THE GROUND ANCHOR.
4. WHEN DRIVING STEEL POST, ENSURE THAT A DRIVING CAP WITH TIMBER OR PLASTIC INSERT IS USED TO PREVENT DAMAGE TO THE GALVANIZING TO THE TOP OF THE STEEL POST.

LEGEND:

- | ITEM | DESCRIPTION |
|------|-------------------------------------|
| ① | X-TENSION TERMINAL COMPONENT KIT |
| ② | X-TENSION HARDWARE KIT |
| ③ | X-TENSION SYSTEM HARDWARE KIT |
| ④ | X-TENSION GUARDRAIL COMPONENT KIT 3 |
| ⑤ | I-BEAM POST, MIDDLE, X350 |

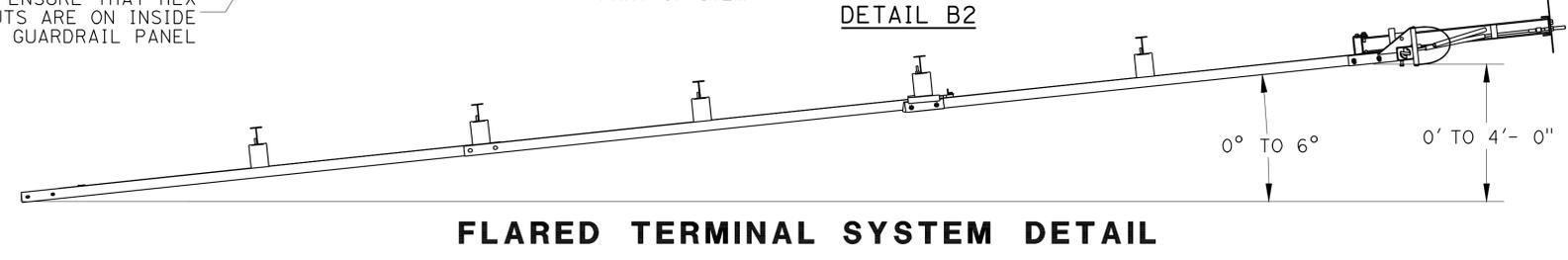
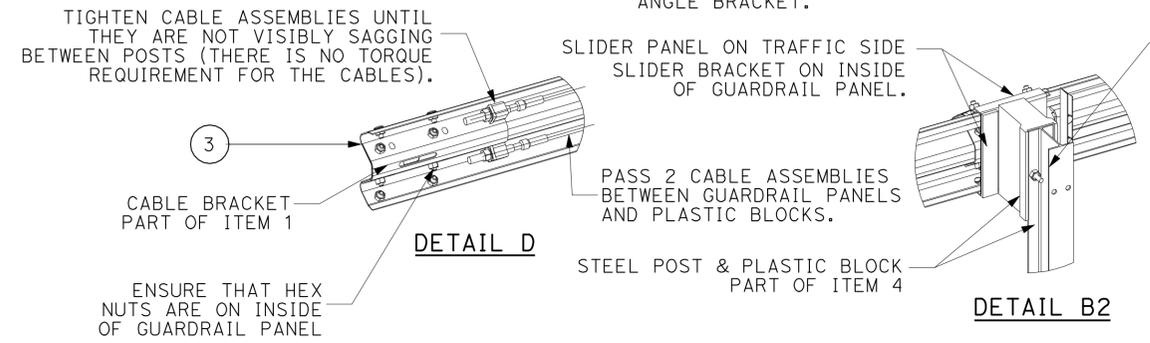
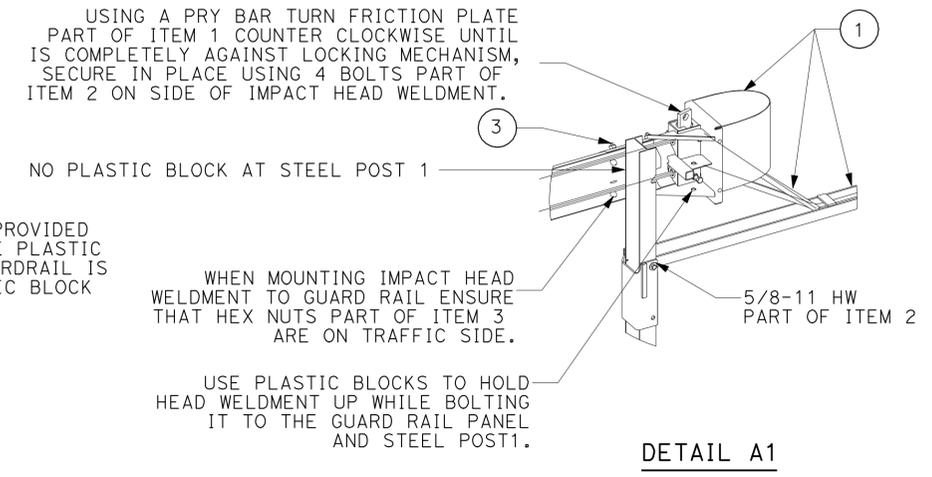
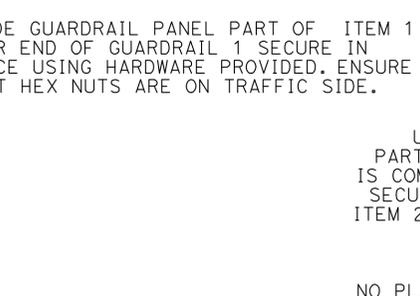
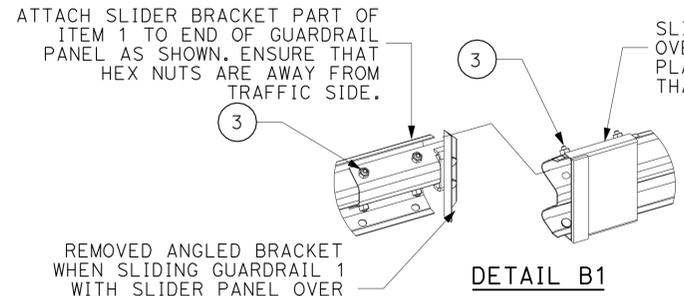
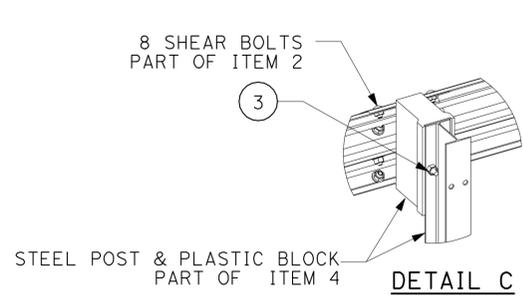
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5	23.1/24.0	4	76

Ranjeew Kumar Ghai 11-23-11
 REGISTERED CIVIL ENGINEER DATE

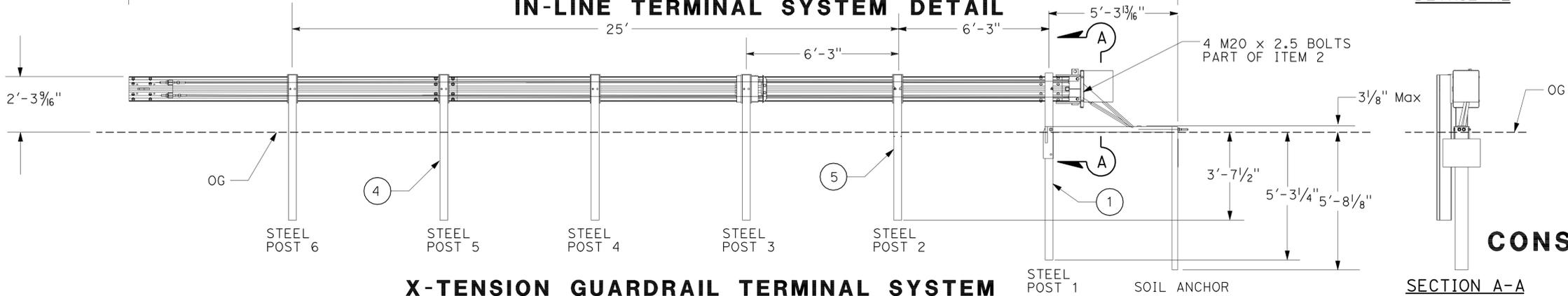
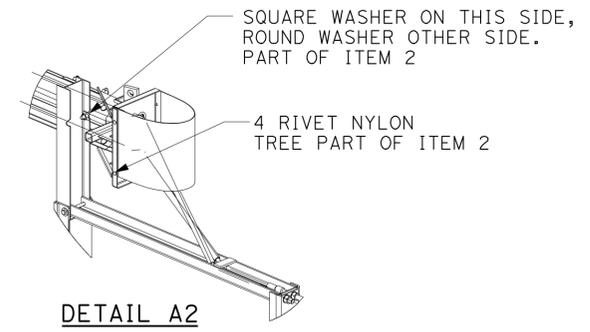
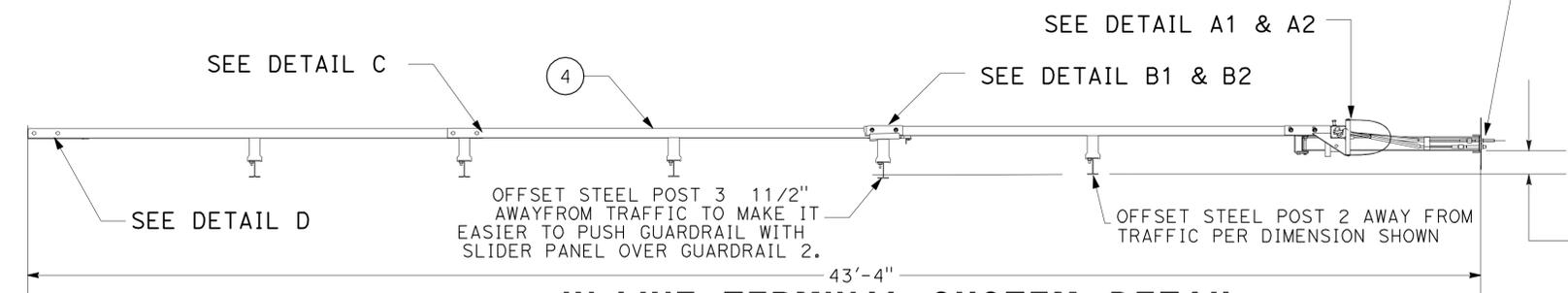
12-5-11
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 RANJEEV KUMAR GHAI
 No. 61338
 Exp. 6/30/13
 CIVIL
 STATE OF CALIFORNIA



PASS CABLE ASSEMBLY UNDER THE STEEL STRAP ON THE GROUND STRUT AND FORWARD THROUGH THE HOLES AT FRONT END OF GROUND STRUT. THEN PASS CABLE ASSEMBLY THROUGH LOWER HOLE IN IMPACT HEAD WELDMENT AND THROUGH FRICTION PLATE AND OUT THE BACK SIDE OF THE IMPACT HEAD. (REPEAT FOR SECOND CABLE ASSEMBLY TO PASS THROUGH UPPER HOLE IN IMPACT HEAD WELDMENT).



CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 06-DESIGN
 FUNCTIONAL SUPERVISOR: SHAHIN MANSOUR
 CALCULATED/DESIGNED BY: M SADATMANSOORI
 CHECKED BY: KHALID CHAOUI
 REVISOR BY: DATE

LAST REVISION DATE PLOTTED => 07-DEC-2011 12-10-10 TIME PLOTTED => 1:3:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5	23.1/24.0	5	76

Hassan Cohe 3-24-11
 REGISTERED CIVIL ENGINEER DATE
 12-5-11
 PLANS APPROVAL DATE

HASSAN M. TAHA
 No. 60130
 Exp. 06/30/12
 CIVIL

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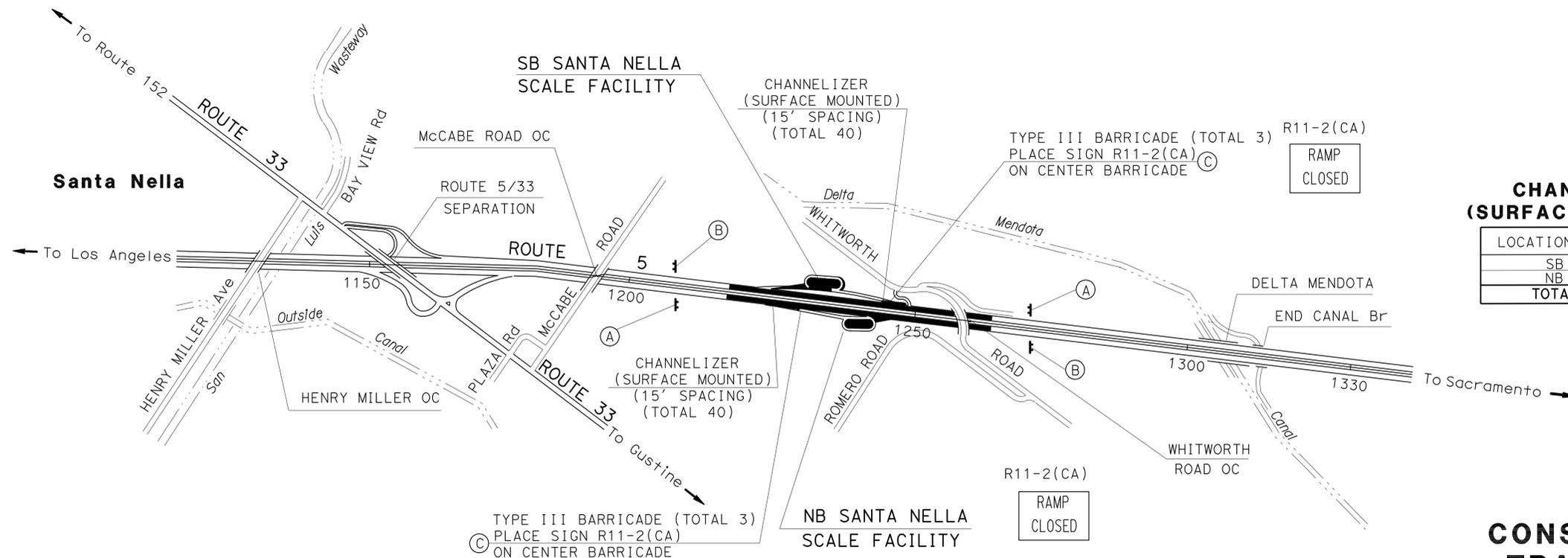
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS	POST SIZE	No. OF SIGNS
(A)	W20-1	60" x 60"	ROAD WORK AHEAD	2	6" x 6"	2
(B)	G20-2	60" x 24"	END ROAD WORK	2	4" x 4"	2
(C)	R11-2(CA)	48" x 30"	RAMP CLOSED	ON BARRICADE		2

NOTE: EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

PAVEMENT DELINEATION QUANTITIES

ROUTE	LOCATION		DIRECTION	DETAIL No.	PAVEMENT MARKERS (RETROREFLECTIVE)		THERMOPLASTIC TRAFFIC STRIPE
					TYPE H	EA	4" SOLID
ON-RAMP	1235+00	1240+00	SB	27B 25A	22	500	500
OFF-RAMP	1240+00	1245+00	SB	27B 25A	22	500	500
OFF-RAMP	1240+00	1245+00	NB	27B 25A	22	500	500
ON-RAMP	1245+00	1253+00	NB	27B 25A	34	800	800
TOTAL						100	4600



CHANNELIZER (SURFACE MOUNTED)

LOCATION No.	EA
SB	40
NB	40
TOTAL	80

TYPE III BARRICADE

LOCATION No.	EA
SB	3
NB	3
TOTAL	6

CONSTRUCTION AREA SIGNS, TRAFFIC HANDLING PLAN, TRAFFIC HANDLING QUANTITIES AND PAVEMENT DELINEATION PLAN

THIS PLAN ACCURAT FOR CONSTRUCTION AREA SIGN AND PAVEMENT DELINEATION WORK ONLY.

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 06 - TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
 CALCULATED/DESIGNED BY: VANIK POGOSYAN
 CHECKED BY: HASSAN TAHA
 REVISOR: VANIK POGOSYAN
 DATE REVISOR: HASSAN TAHA

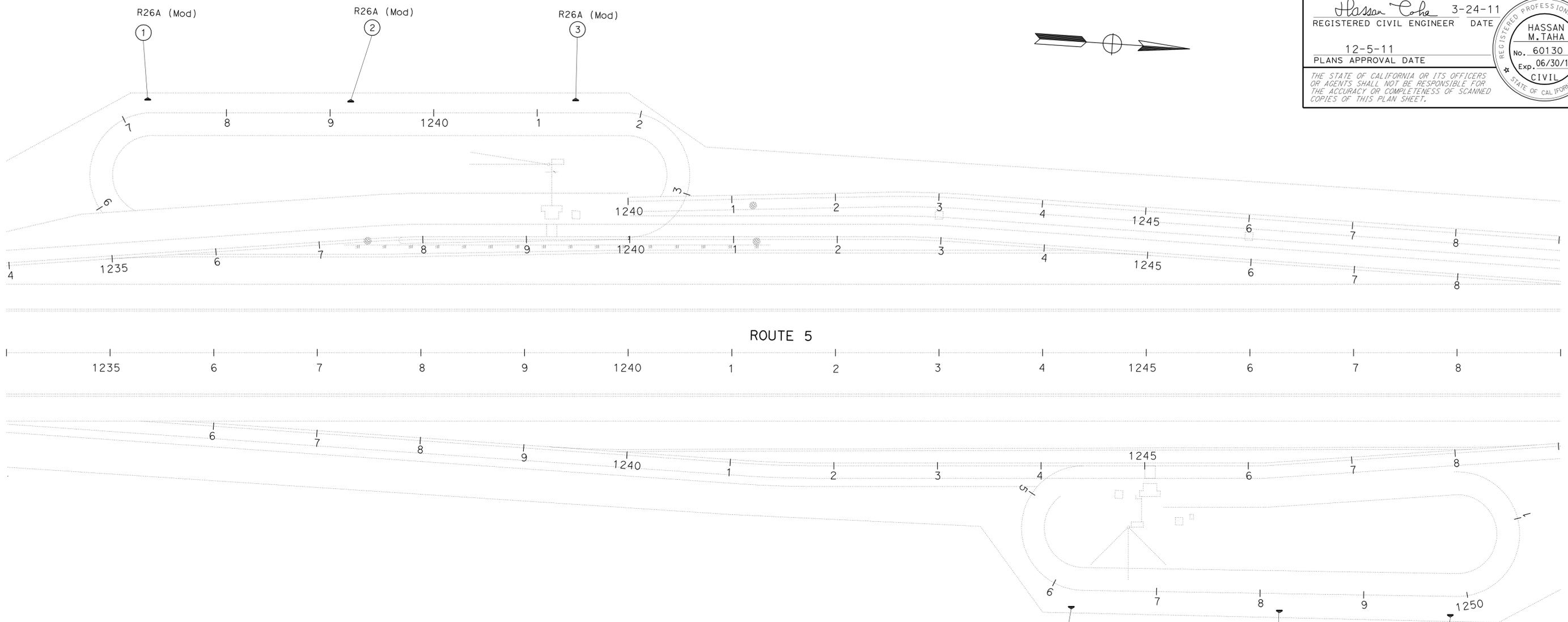
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5	23.1/24.0	6	76

Hassan Cohe 3-24-11
REGISTERED CIVIL ENGINEER DATE

12-5-11
PLANS APPROVAL DATE

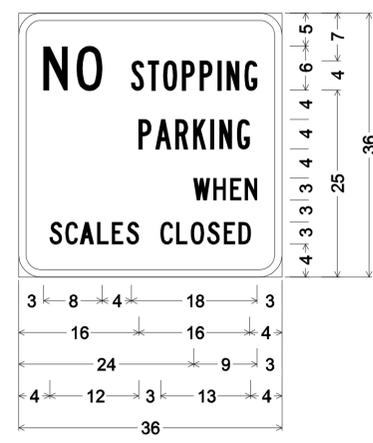
HASSAN M. TAHA
No. 60130
Exp. 06/30/12
CIVIL

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SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN CODE	SIGN MESSAGE	No. OF POST AND SIZE	PANEL SIZE	BACKGROUND		LEGEND		STANDARD GRAFFITI FILM	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063" UNFRAMED)	INSTALL SIGN (SSBM)
						SHEETING COLOR	Retroreflectivity ASTM TYPE	SHEETING COLOR	Retroreflectivity ASTM TYPE			
PD-1	1-6	R26A(Mod)(CA)	NO STOPPING PARKING WHEN SCALES CLOSED	ON Elect POLE	36" x 36"	WHITE	III	RED		X	54	6



3" Radius, 1" Border, Black on White;
[NO] C; [STOPPING] B;
[PARKING] B; [WHEN] C;
[SCALES CLOSED] C;

SIGN PLAN, DETAILS AND QUANTITIES

SCALE: 1" = 50'

S-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - 06 - TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

DESIGNED BY: VANIK POGOSYAN

CHECKED BY: HASSAN TAHA

REVISOR: VANIK POGOSYAN

DATE REVISOR: HASSAN TAHA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5	23.1/24.0	7	76

Ranjeev Kumar Ghai 1-10-11
REGISTERED CIVIL ENGINEER DATE

12-5-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RANJEEV KUMAR GHAI
No. 61338
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA

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EROSION CONTROL QUANTITY

STATION	Loc	COMPOST BLANKET (CY)
1224+00 TO 1234+00 R+	SB	74.1
1240+00 TO 1249+00 R+	SB	66.7
1249+00 TO 1259+00 R+	SB	74.1
1259+00 TO 1265+00 R+	SB	44.5
1218+00 TO 1224+00 R+	NB	44.5
1224+00 TO 1234+00 R+	NB	74.1
1234+00 TO 1245+00 R+	NB	81.5
TOTAL		459.5

NOTE: APPLY IN DISTURBED SOIL WHERE TRENCHING WILL OCCUR.

METAL BEAM GUARD RAILING

STATIONING (ALONG C Rte 5) Loc : IN SB DIRECTION	MBGR (STEEL POST)	REMOVE MBGR	END ANCHOR ASSEMBLY (TYPE SFT)	ALTERNATIVE FLARED TERMINAL SYSTEM
	LF	LF	EA	EA
1239+26.30 TO 1242+26.30		300		
1237+70.30 TO 1242+26.30	456		1	
1242+26.30 TO 1242+63.80				1
TOTAL	456	300	1	1

MINOR HMA

STATION	Loc	Ton
1239+81.61 TO 1241+23.61	NB	5
1236+26.30 TO 1237+76.30	SB	5
TOTAL		10

COLD PLANE AC PAVEMENT

STATION	Loc	SQYD
1239+81.61 TO 1241+23.61	NB	50
1236+26.30 TO 1237+76.30	SB	50
TOTAL		100

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 06-DESIGN
 FUNCTIONAL SUPERVISOR
 SHAHIN MANSOUR
 CALCULATED/DESIGNED BY
 CHECKED BY
 RANJEEV KUMAR GHAI
 SHAHIN MANSOUR
 REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5	23.1/24.0	8	76

Ranjeew Kumar Ghai 11-23-11
REGISTERED CIVIL ENGINEER DATE
12-5-11
PLANS APPROVAL DATE

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REPLACE CONCRETE PAVEMENT (NB WEIGH STATION)

FROM STA TO STA	LENGTH	WIDTH	DEPTH	CY
	LANE "A"			
1240+02.60 to 1240+17.60	15'	12.0'	0.75'	5.00
1240+17.60 to 1240+39.60	22'	12.0'	0.75'	7.33
1240+39.60 to 1240+51.60	12'	12.0'	0.75'	4.00
1240+51.60 TO 1240+65.60	14'	12.0'	0.75'	4.67
1241+01.60 to 1241+14.60	13'	12.0'	0.75'	4.33
1241+26.60 to 1241+45.60	19'	12.0'	0.75'	6.33
1241+45.60 to 1241+63.60	18'	12.0'	0.75'	6.00
1241+89.60 to 1242+08.60	19'	12.0'	0.75'	6.33
1242+44.60 to 1242+69.60	25'	12.0'	0.75'	8.33
1242+69.60 to 1242+88.60	19'	12.0'	0.75'	6.33
1243+83.60 to 1243+94.60	11'	12.0'	0.75'	3.67
1244+37.60 to 1244+56.60	19'	12.0'	0.75'	6.33
1244+74.60 to 1244+89.60	15'	12.0'	0.75'	5.00
1245+44.60 to 1245+62.60	18'	12.0'	0.75'	6.00
1246+06.60 to 1246+62.60	18'	12.0'	0.75'	6.00
1246+68.60 to 1246+87.60	19'	12.0'	0.75'	6.33
1246+87.60 to 1247+06.60	19'	12.0'	0.75'	6.33
1247+06.60 to 1247+17.60	11'	12.0'	0.75'	3.67
1247+30.60 to 1247+49.60	19'	12.0'	0.75'	6.33
SUB TOTAL 1				108.31

EXACT LOCATIONS OF CONCRETE PANELS TO BE REPLACED WILL BE DETERMINED BY THE ENGINEER

REPLACE CONCRETE PAVEMENT (SB WEIGH STATION)

FROM STA TO STA	LENGTH	WIDTH	DEPTH	CY
	LANE "A"			
1236+72.30 TO 1236+90.30	18.0'	12.0'	0.75'	6.00
1236+90.30 TO 1237+09.30	19.0'	12.0'	0.75'	6.33
1237+09.30 TO 1237+22.30	13.0'	12.0'	0.75'	4.33
1237+22.30 TO 1237+34.30	12.0'	12.0'	0.75'	4.00
1237+34.30 TO 1237+51.30	17.0'	12.0'	0.75'	5.67
1237+51.30 TO 1237+71.30	20.0'	12.0'	0.75'	6.67
1238+15.30 TO 1238+30.30	15.0'	12.0'	0.75'	5.00
1238+81.30 TO 1238+96.30	15.0'	12.0'	0.75'	5.00
1239+78.30 TO 1239+97.30	19.0	12.0'	0.75'	6.33
1240+40.30 TO 1240+59.30	19.0	12.0'	0.75'	6.33
1240+59.30 TO 1240+72.30	13.0	12.0'	0.75'	4.33
1240+72.30 TO 1240+84.30	12.0	12.0'	0.75'	4.00
1240+84.30 TO 1241+02.30	18.0	12.0'	0.75'	6.00
1241+02.30 TO 1241+21.30	19.0	12.0'	0.75'	6.33
1241+55.30 TO 1241+74.30	19.0	12.0'	0.75'	6.33
1241+74.30 TO 1241+92.30	18.0	12.0'	0.75'	6.00
SUB TOTAL 3				88.65
SUB TOTAL 1				108.31
SUB TOTAL 2				57.65
TOTAL				254.61

EXACT LOCATIONS OF CONCRETE PANELS TO BE REPLACED WILL BE DETERMINED BY THE ENGINEER

REPLACE CONCRETE PAVEMENT (NB WEIGH STATION)

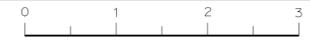
FROM STA TO STA	LENGTH	WIDTH	DEPTH	CY
	LANE "B"			
1240+83.60 TO 1241+01.60	18'	12.0'	0.75'	6.00
1241+26.60 TO 1241+45.60	19'	12.0'	0.75'	6.33
1241+45.60 TO 1241+63.60	18'	12.0'	0.75'	6.00
1241+76.60 TO 1241+89.60	13'	12.0'	0.75'	4.33
1241+89.60 TO 1242+08.60	19'	12.0'	0.75'	6.33
1242+26.60 TO 1242+44.60	18'	12.0'	0.75'	6.00
1242+44.60 TO 1242+69.60	25'	12.0'	0.75'	8.33
1244+37.60 TO 1244+56.60	19'	12.0'	0.75'	6.33
1244+74.60 TO 1244+89.60	15'	12.0'	0.75'	5.00
1244+89.60 TO 1244+98.60	9'	12.0'	0.75'	3.00
SUB TOTAL 2				57.65

EXACT LOCATIONS OF CONCRETE PANELS TO BE REPLACED WILL BE DETERMINED BY THE ENGINEER

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 06 - DESIGN
 Ranjeev Kumar Ghai
 Shahin Mansour
 Shahin Mansour
 Shahin Mansour



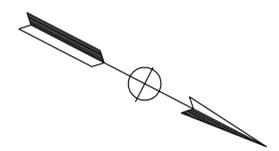
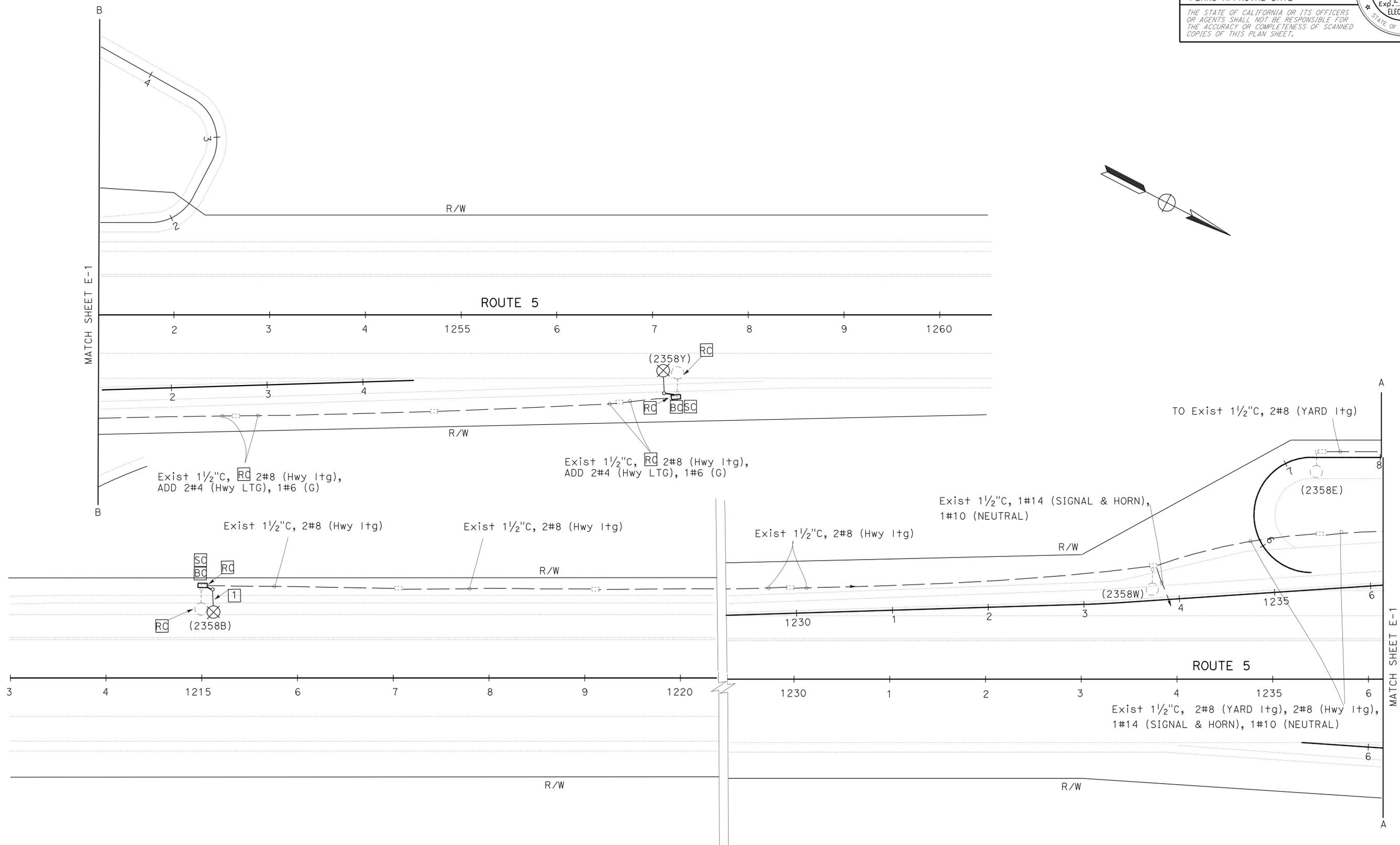
LAST REVISION DATE PLOTTED => 07-DEC-2011
 00-00-00 TIME PLOTTED => 1:3:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5	23.1/24.0	10	76
			11/15/10	DATE	
REGISTERED ELECTRICAL ENGINEER			ALVARO ARAICA		
No. 15558			Exp. 2/31/13		
ELECTRICAL			STATE OF CALIFORNIA		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

NOTES:

- FOR ADDITIONAL NOTES, REFER TO SHEET E-1.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

AA	REVISOR	DATE
AA	ALVARO ARAICA	3/14/11
	DESIGNER	
	JASPAL SINGH	
	CHECKED BY	
	ALI BAKHOUD	
	FUNCTIONAL SUPERVISOR	
	DEPARTMENT OF TRANSPORTATION	
	ELECTRICAL	



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

MODIFY LIGHTING
SCALE: 1" = 50' **E-2**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5	23.1/24.0	11	76

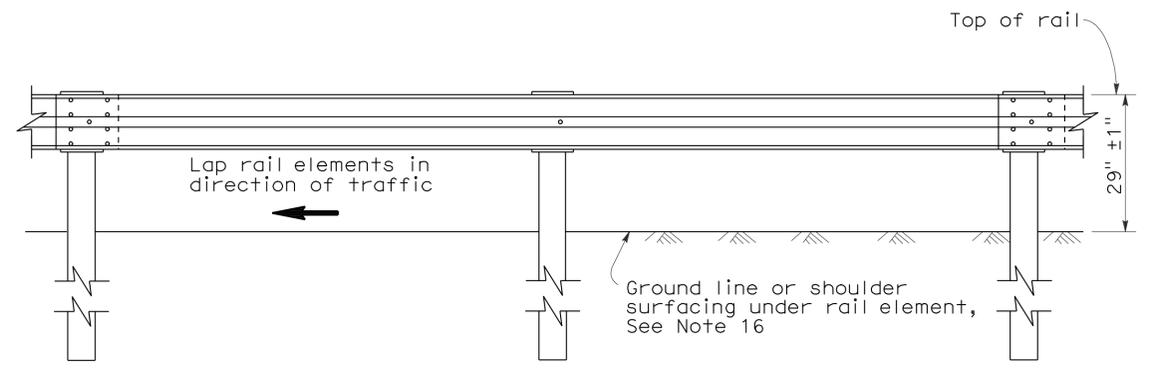
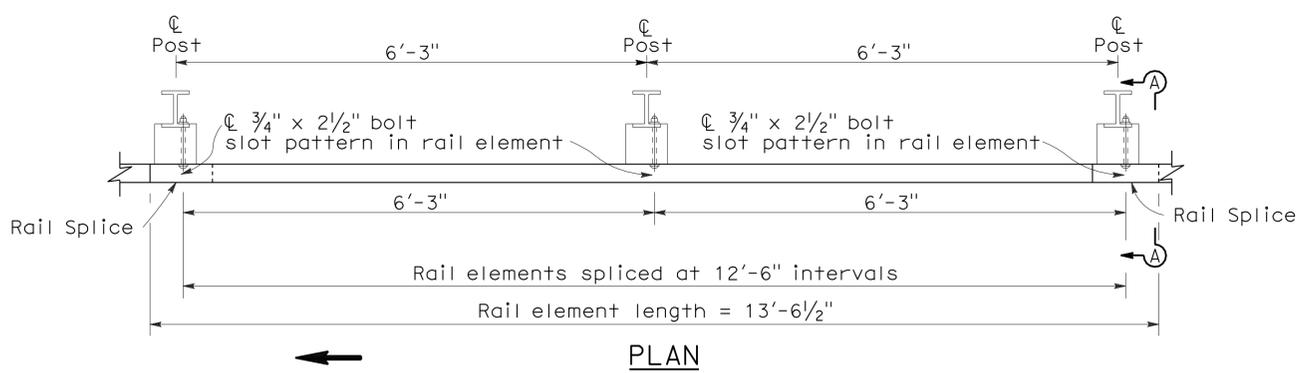
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

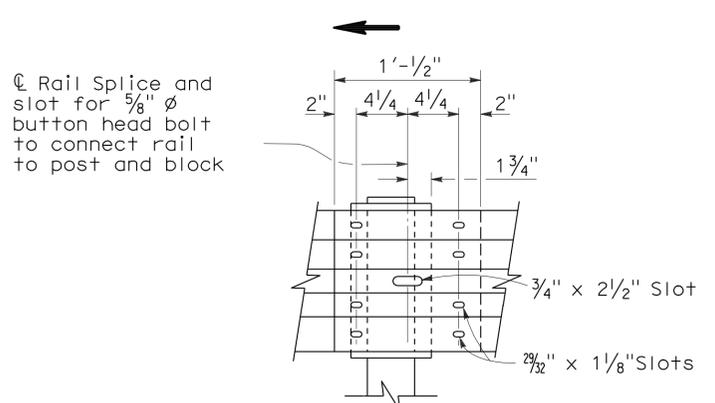
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To accompany plans dated 12-5-11

2006 REVISED STANDARD PLAN RSP A77A2

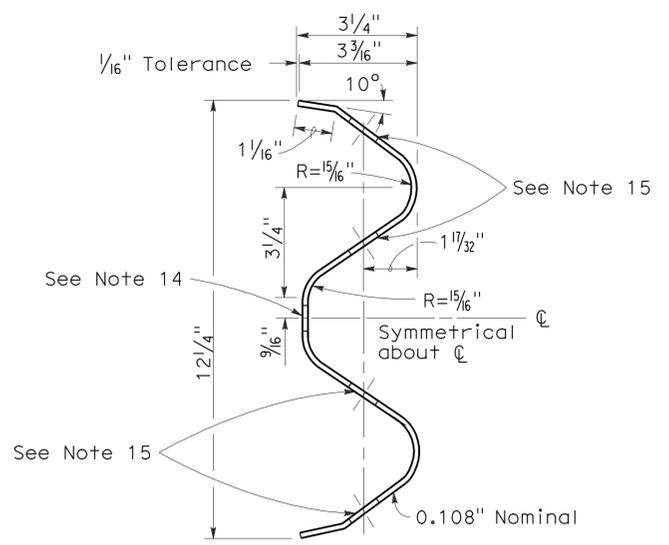


METAL BEAM GUARD RAILING WITH STEEL POSTS AND NOTCHED WOOD OR NOTCHED RECYCLED PLASTIC BLOCKS

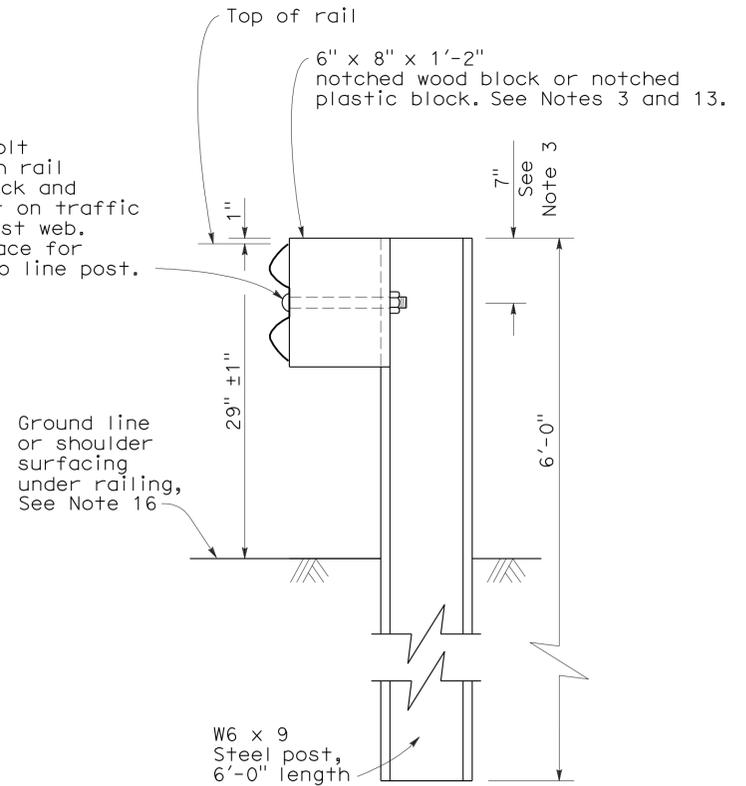


ELEVATION RAIL ELEMENT SPLICE DETAIL

- Connect the over lapped end of the rail elements with $\frac{5}{8}$ " ϕ x $1\frac{3}{8}$ " button head oval shoulder splice bolts inserted into the $\frac{29}{32}$ " x $1\frac{1}{8}$ " slots and bolted together with $\frac{5}{8}$ " ϕ recessed hex nuts. Recess of hex nut points toward rail element. A total of 8 bolts and nuts are to be used at each rail splice connection.
- The ends of the rail elements are to be overlapped in the direction of traffic (see details).
- Where end cap is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used.



SECTION THRU RAIL ELEMENT



SECTION A-A TYPICAL STEEL LINE POST INSTALLATION

See Note 4

NOTES:

- For details of wood post installations, see Standard Plan A77A1.
- For details of standard hardware used to construct guard railing, see Standard Plan A77B1.
- For details of steel posts and notched wood blocks used to construct guard railing, see Standard Plan A77C2.
- For additional installation details, see Standard Plan A77C3.
- Guard railing post spacing to be 6'-3" center to center, except as otherwise noted.
- For guard railing typical layouts, see the A77E, A77F and A77G Series of Standard Plans.
- For terminal system end treatment details, see the A77L Series of Standard Plans. To connect railing to terminal system end treatment, transition the top of railing height at a ratio of 120:1 to terminal system end treatment height plus one 12'-6" standard railing section at the transitioned height for a horizontal connection to the end treatment.
- For guard railing end anchor details, see Standard Plans A77H1 and A77I2.
- For details of guard railing transition to bridge railing, see Standard Plan A77J4.
- For additional details of guard railing connection to bridge railings, see Standard Plans A77J1, A77J2 and A77K1.
- For dike positioning and guard railing delineation details, see Standard Plan A77C4.
- Direction of adjacent traffic indicated by \rightarrow .
- Notched face of block faces steel post.
- Slotted hole for bolted connection of rail element to block and post. See "Section Thru Rail Element".
- Slotted holes for splice bolts to overlap ends of rail element. See "Section Thru Rail Element".
- Install posts in soil.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING STANDARD RAILING SECTION (STEEL POST WITH NOTCHED WOOD OR NOTCHED RECYCLED PLASTIC BLOCK)

NO SCALE

RSP A77A2 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77A2 DATED MAY 1, 2006 - PAGE 42 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77A2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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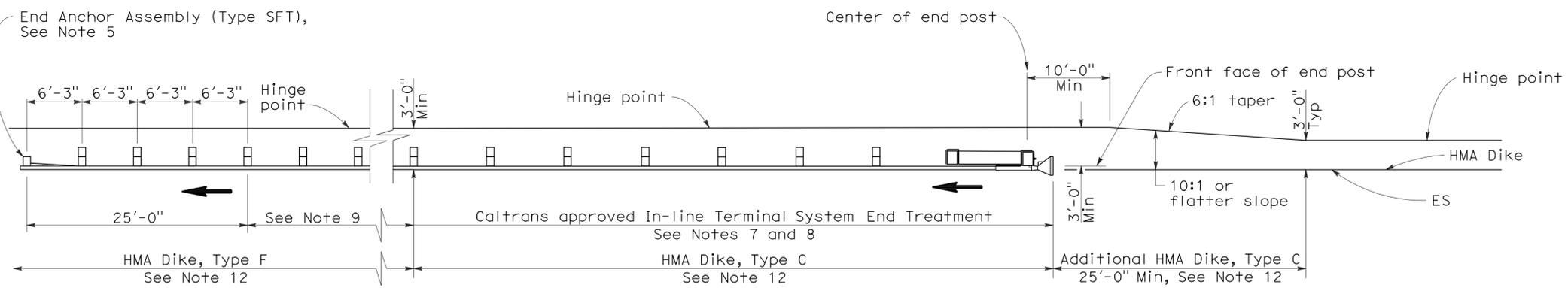
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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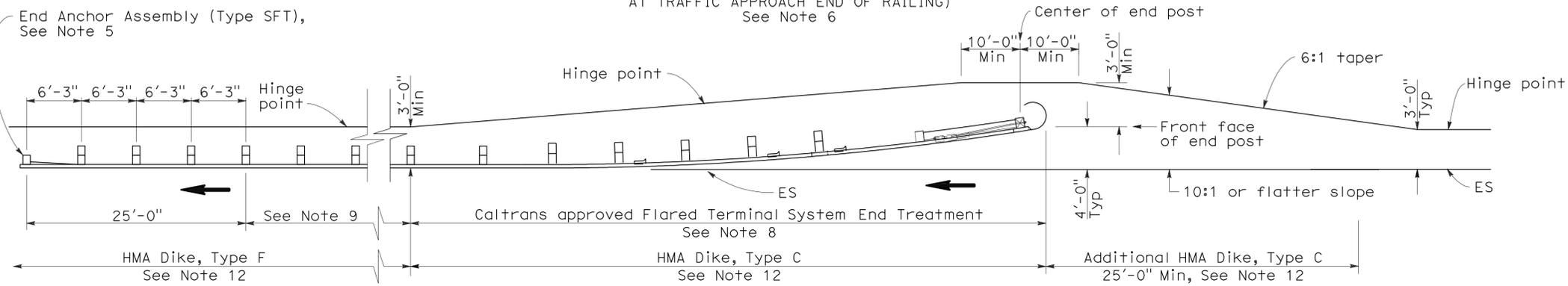
To accompany plans dated 12-5-11

2006 REVISED STANDARD PLAN RSP A77E1



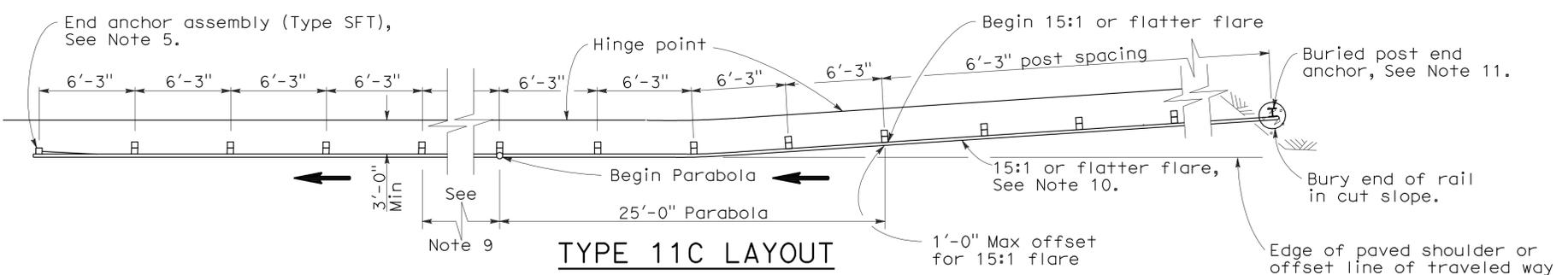
TYPE 11A LAYOUT

(EMBANKMENT GUARD INSTALLATION WITH IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING) See Note 6



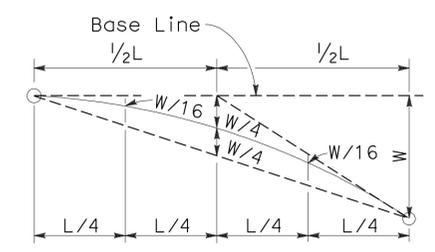
TYPE 11B LAYOUT

(EMBANKMENT GUARD RAILING INSTALLATION WITH FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING) See Note 6

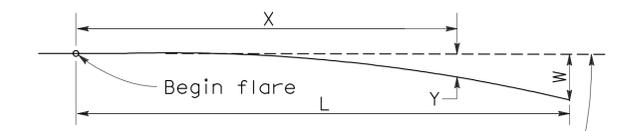


TYPE 11C LAYOUT

(EMBANKMENT GUARD RAILING INSTALLATION WITH BURIED END ANCHOR TREATMENT AT TRAFFIC APPROACH END OF RAILING) See Notes 6 and 12



TYPICAL PARABOLIC LAYOUT

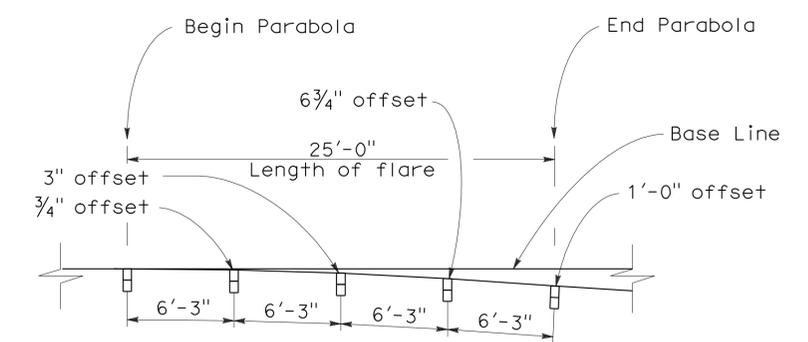


Base Line (Edge of paved shoulder or offset line of edge of traveled way)

$Y = \frac{WX^2}{L^2}$

Y = Offset from base line
W = Maximum offset
X = Distance along base line
L = Length of flare

PARABOLIC FLARE OFFSETS



TYPICAL FLARE OFFSETS FOR 1 FOOT MAX END OFFSET

NOTES:

- Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1, and A77C2.
- Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or recycled plastic blocks may be used for 6" x 8" x 6'-0" wood post with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- Direction of adjacent traffic indicated by \rightarrow .
- For End Anchor Assembly (Type SFT) details, see Standard Plan A77H1.
- Layout Types 11A, 11B or 11C are typically used where guard railing is recommended to shield embankment slopes and a crashworthy end treatment is required for only one direction of traffic.
- In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system end treatment to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height and side slope), construction of additional guard railing (length equal to multiples of 12'-6" with 6'-3" post spacing) may be advisable.
- The 15:1 or flatter flare used with buried end anchors is based on the edge of the paved shoulder or offset line of edge of the traveled way. The length of guard railing within the 15:1 or flatter flare is based on site conditions and should be a length equal to multiples of 12'-6".
- For details of the buried post end anchor used with Type 11C Layout, see Standard Plan A77I2.
- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL LAYOUTS FOR
EMBANKMENTS**

NO SCALE

RSP A77E1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77E1
DATED MAY 1, 2006 - PAGE 48 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77E1

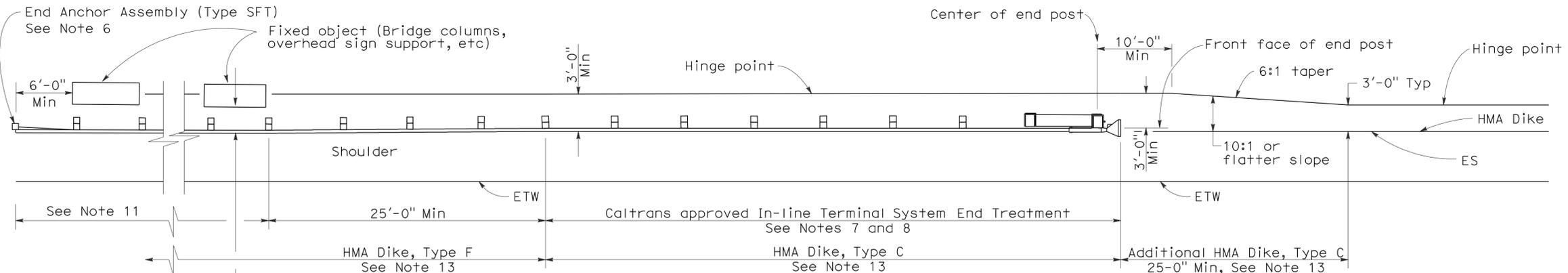
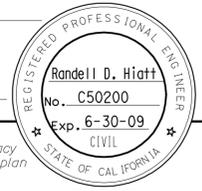
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	13	76

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

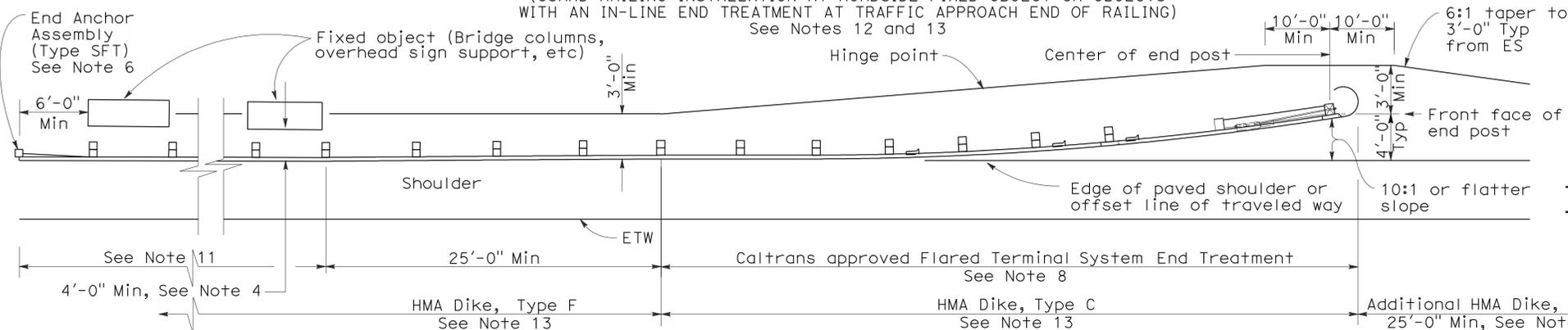
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To accompany plans dated 12-5-11



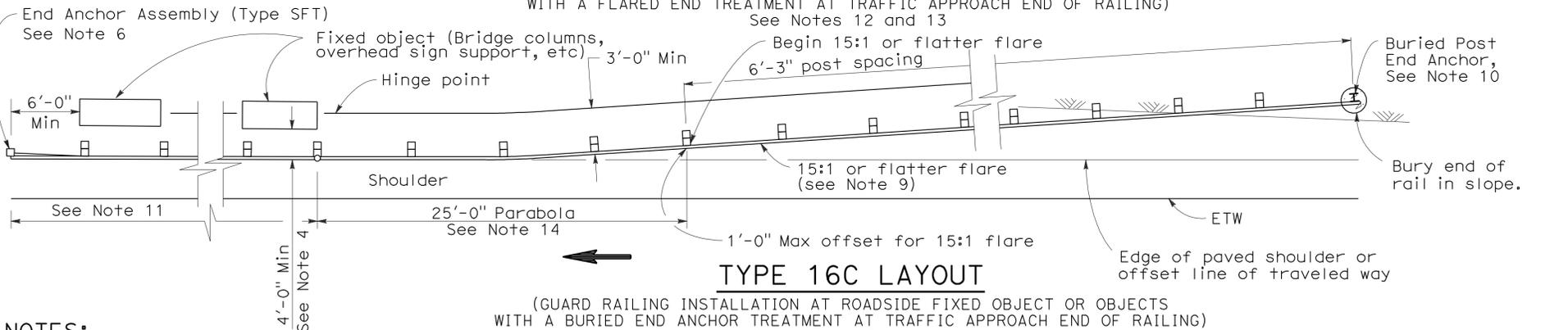
TYPE 16A LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH AN IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 7 and 8



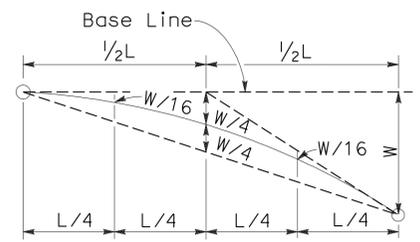
TYPE 16B LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH A FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 12 and 13

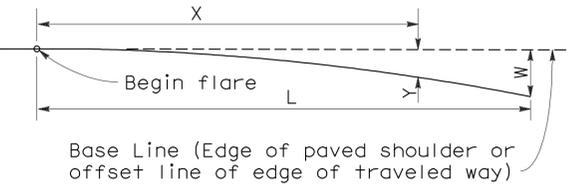


TYPE 16C LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH A BURIED END ANCHOR TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 12 and 13



TYPICAL PARABOLIC LAYOUT



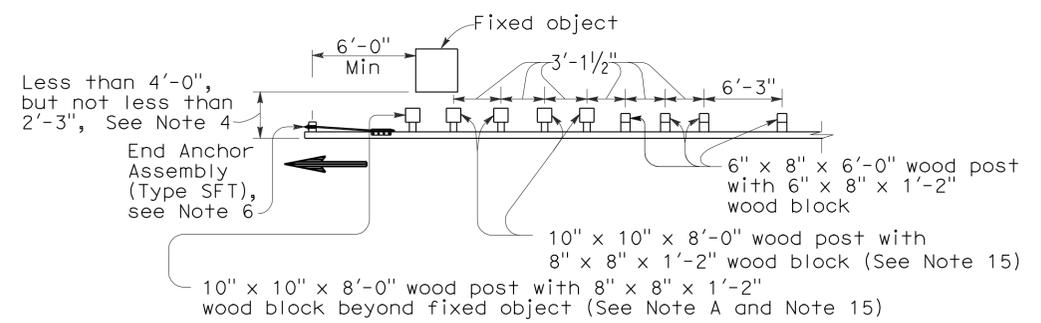
Base Line (Edge of paved shoulder or offset line of edge of traveled way)
Y = Offset from base line
W = Maximum offset
X = Distance along base line
L = Length of flare

PARABOLIC FLARE OFFSETS

$$Y = \frac{WX^2}{L^2}$$

NOTES:

- Line post, blocks and hardware to be used are shown on Revised Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard railing post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood line posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- A 4'-0" minimum clearance is required between the face of the railing and the face of a fixed object located directly behind standard guard railing sections with post spacing of 6'-3". Construct guard railing as shown in the detail "Strengthened Railing Sections for Fixed Objects" on this plan, where the clearance between the face of the railing and the face of a fixed object is less than 4'-0", but not less than 2'-3". Where the clearance is less than 2'-3", a concrete wall or barrier should be constructed to shield the fixed object(s).
- Direction of adjacent traffic indicated by \rightarrow .
- For End Anchor Assembly (Type SFT) details, see Standard Plan A77H1.
- In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system to be used will be shown on the Project Plans.
- The 15:1 or flatter flare used with Type 16C Layout is based on the edge of the paved shoulder or offset line of edge of the traveled way. The length of guard railing within the 15:1 or flatter flare is based on site conditions and should be a length equal to multiples of 12'-6".
- For details of the Buried Post End Anchor used with Type 16C Layout, see Standard Plan A77I2.
- As site conditions dictate, construct additional guard railing to shield fixed object(s). Additional guard railing length equal to multiples of 12'-6". Post spacing at 6'-3" except as specified in Note 4.
- Layout Types 16A, 16B or 16C are typically used where guard railing is recommended to shield roadside fixed object(s) and a crashworthy end treatment is required for only one direction of traffic.
- Where placement of dike is required with guard railing, see Revised Standard Plan RSP A77C4 for dike positioning details.
- For typical flare offsets for 25'-0" length parabola with maximum offset of 1'-0", see Revised Standard Plan RSP A77E1.
- W6 x 15 steel post, 8'-0" in length, with 8" x 8" x 1'-2" notched wood block or notched recycled plastic blocks may be used in place of the 10" x 10" x 8'-0" wood post with 8" x 8" x 1'-2" wood block shown in the "Strengthened Railing Sections Detail".



NOTE A:

For a series of fixed objects (bridge columns, overhead sign supports, etc.) additional 10" x 10" x 8'-0" wood post with 8" x 8" x 1'-2" wood blocks at 3'-1/2" center to center spacing are to be used between fixed objects.

STRENGTHENED RAILING SECTIONS FOR FIXED OBJECT

Use strengthened railing sections with Types 16A, 16B or 16C Layouts where minimum clearance between the face of the guard railing and fixed object(s) is less than 4'-0", but not less than 2'-3". See Note 4

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR ROADSIDE FIXED OBJECTS

NO SCALE
RSP A77G3 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77G3
DATED MAY 1, 2006 - PAGE 61 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77G3

2006 REVISED STANDARD PLAN RSP A77G3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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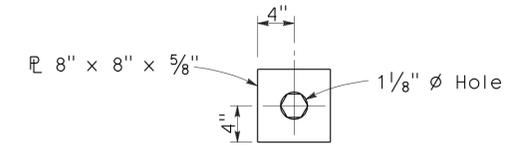
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

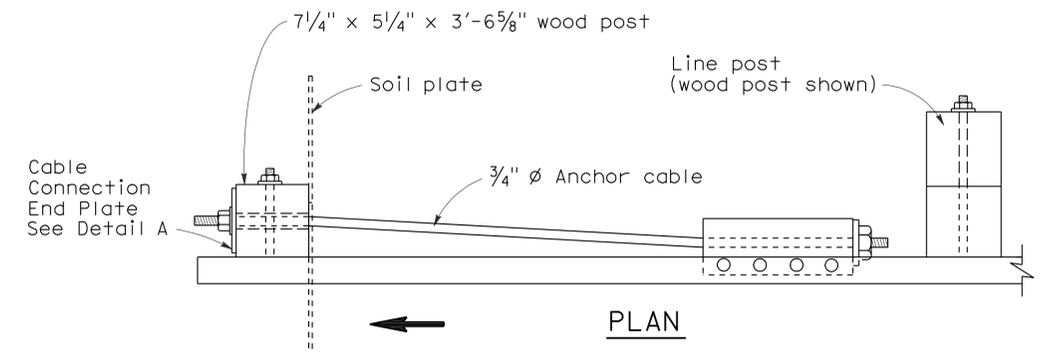
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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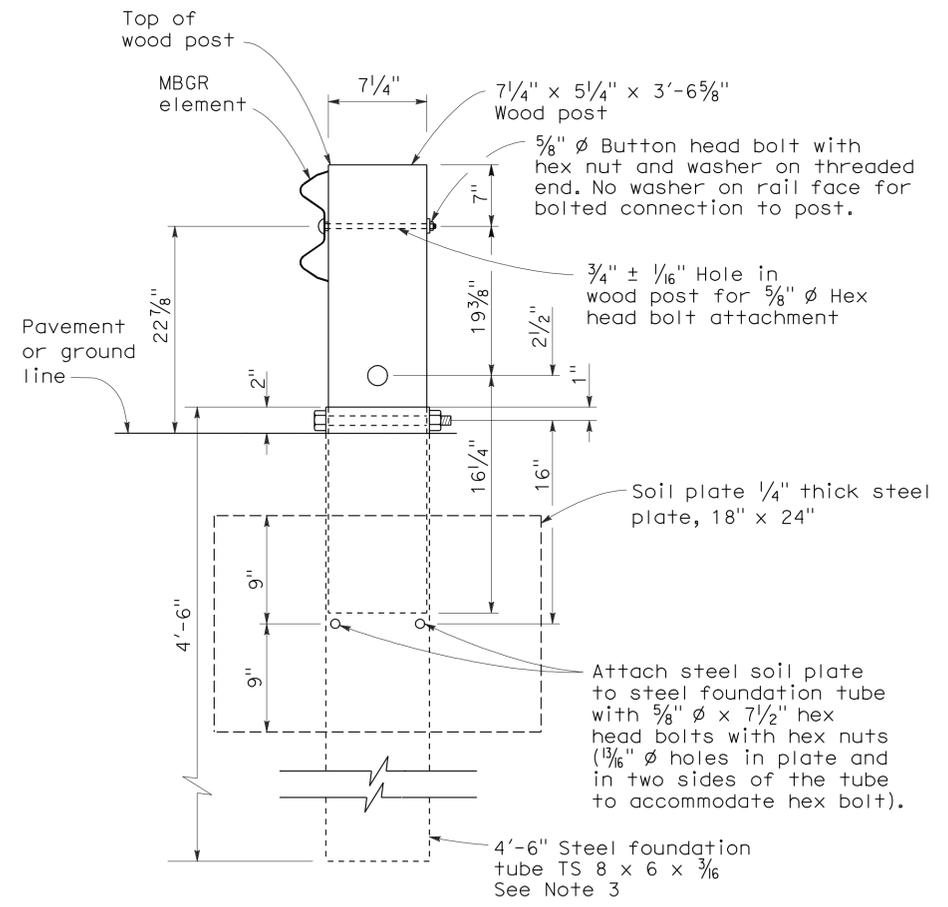
To accompany plans dated 12-5-11



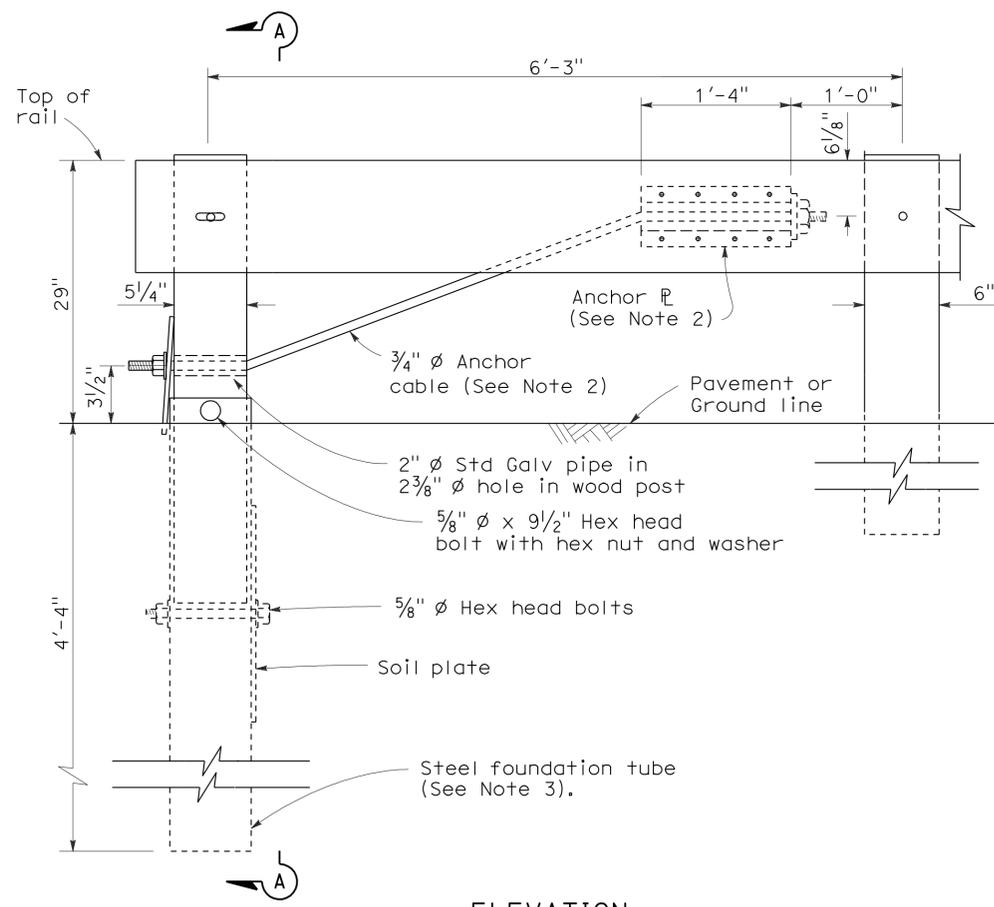
DETAIL A
CABLE CONNECTION
END PLATE



PLAN



SECTION A-A



ELEVATION
END ANCHOR
ASSEMBLY (TYPE SFT)
See Note 1

NOTES:

1. See the A77E, A77F and A77G series of Standard Plans for typical use of End Anchor Assembly (Type SFT).
2. For details of the anchor plate and 3/4" cable, see Standard Plan A77H3.
3. A 6'-0" length steel foundation tube, TS 8 x 6 x 3/16, without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 5/8" diameter hex head bolt and nut shall be installed in the hole in the 6'-0" length tube to keep the wood post from dropping into the tube.
4. Direction of traffic indicated by →.
5. Install line post, steel foundation tube and soil plate in soil.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL RAILING
END ANCHOR ASSEMBLY
(TYPE SFT)

NO SCALE

RSP A77H1 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77H1
DATED MAY 1, 2006 - PAGE 67 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77H1

2006 REVISED STANDARD PLAN RSP A77H1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5	23.1/24.0	15	76

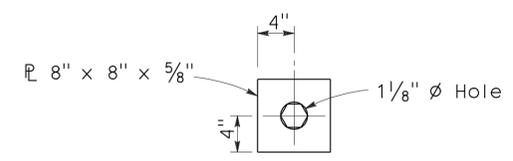
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

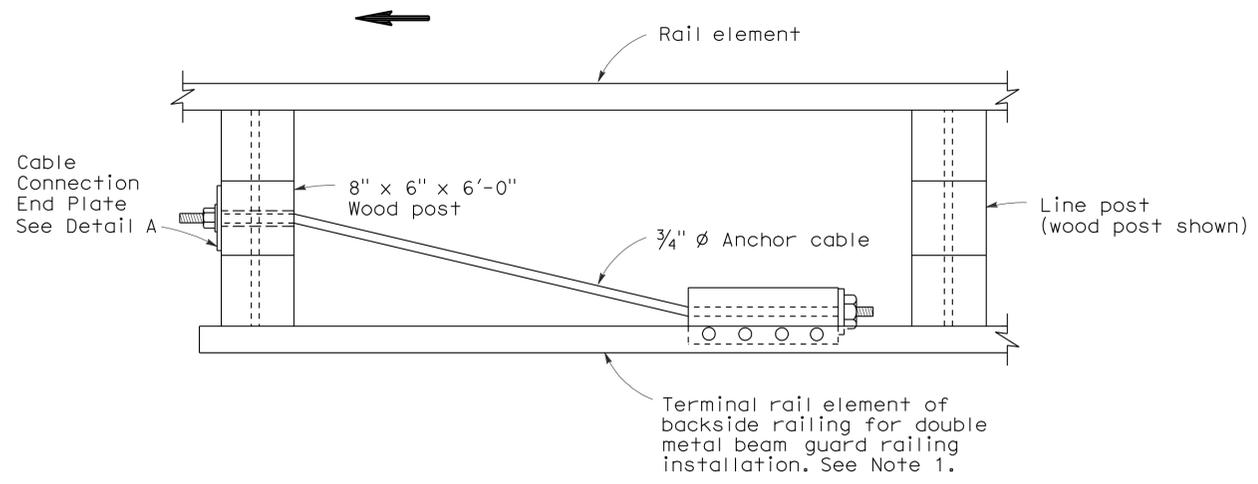
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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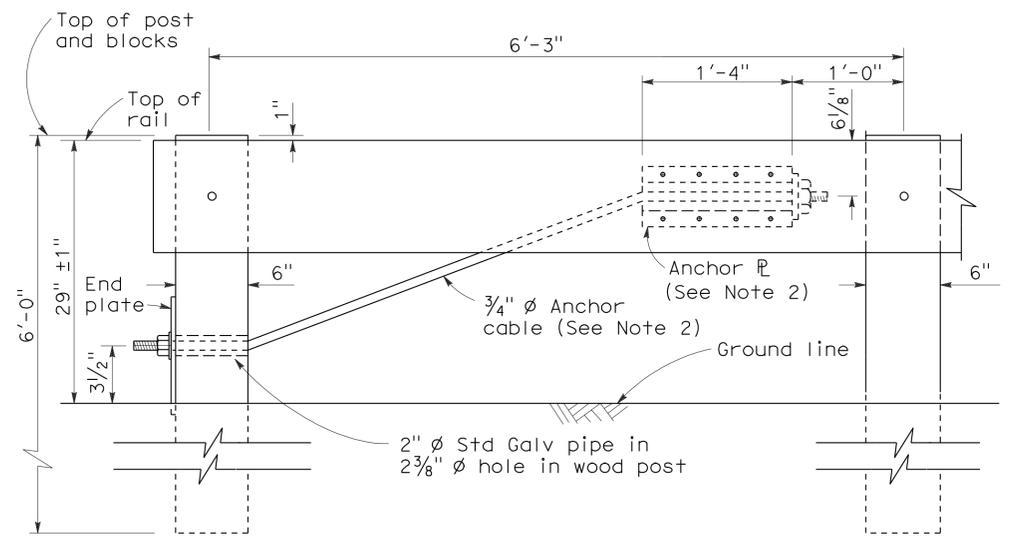
To accompany plans dated 12-5-11



DETAIL A
CABLE CONNECTION
END PLATE



PLAN



ELEVATION
RAIL TENSIONING
ASSEMBLY
See Note 1

NOTES:

1. See Standard Plan A77F3 and Standard Plan A77G1 for typical use of rail tensioning assembly.
2. For details of the anchor plate and 3/4 inch cable, see Standard Plan A77H3.
3. Direction of traffic indicated by →.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
METAL RAILING
RAIL TENSIONING ASSEMBLY

NO SCALE

RSP A77H2 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77H2
DATED MAY 1, 2006 - PAGE 68 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77H2

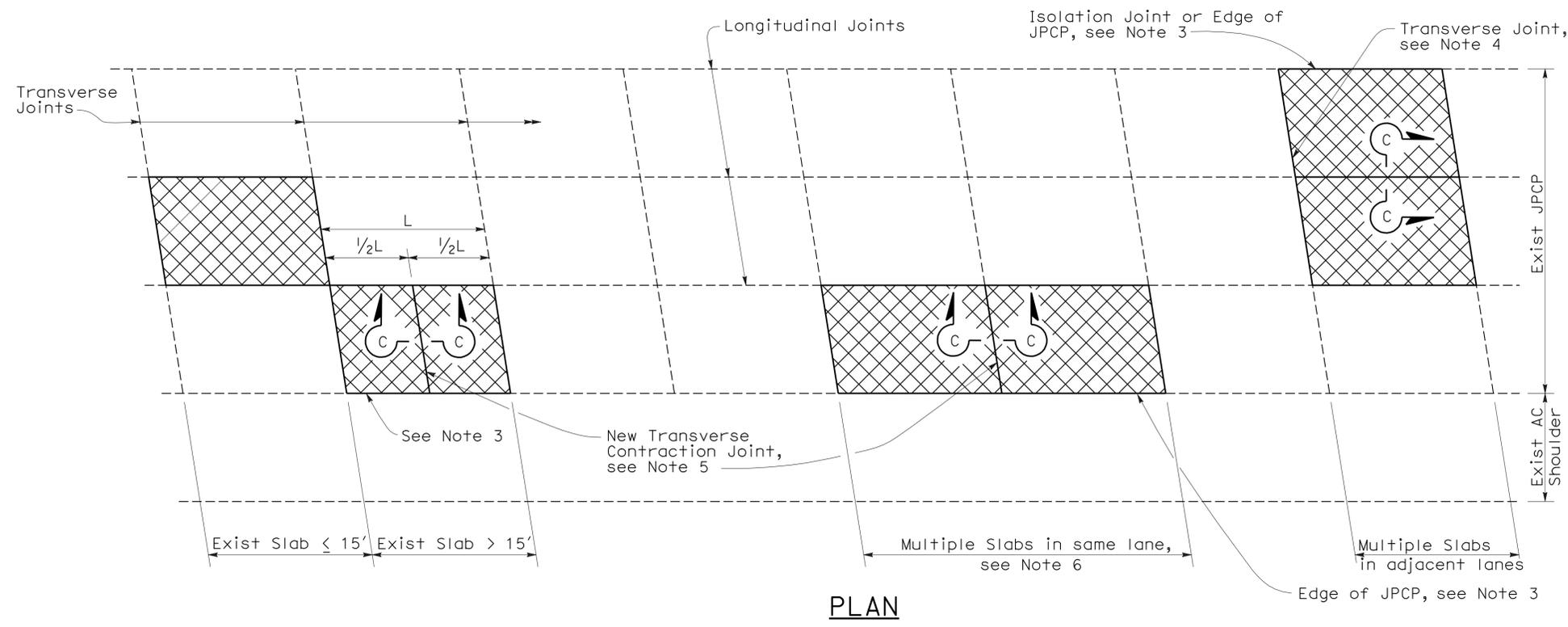
2006 REVISED STANDARD PLAN RSP A77H2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	16	76

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 May 15, 2009
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 William K. Farnbach
 No. C49042
 Exp. 9-30-10
 CIVIL
 STATE OF CALIFORNIA

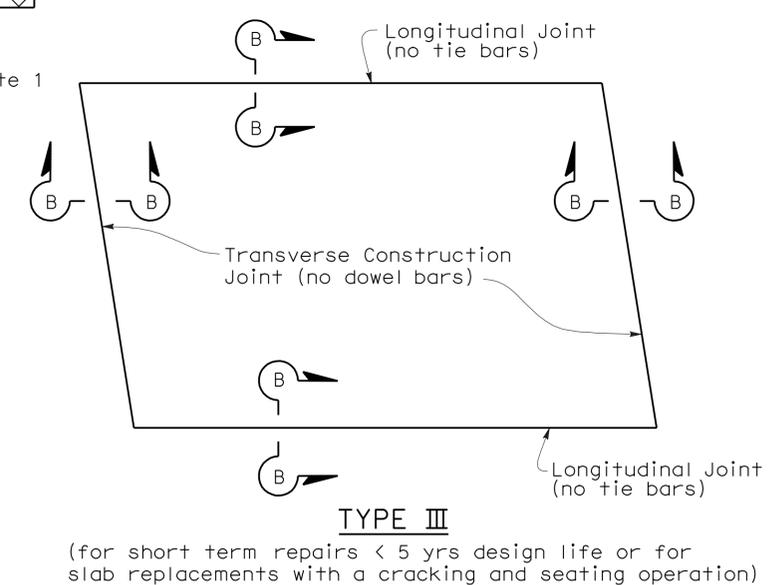
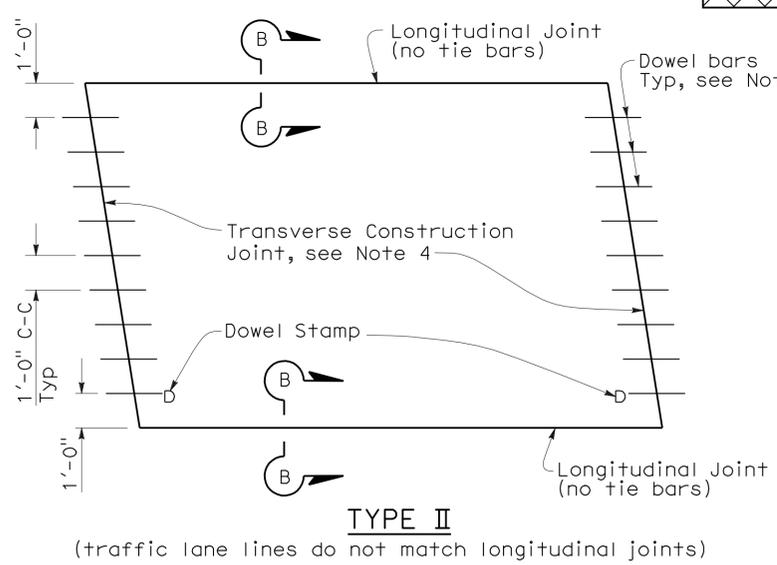
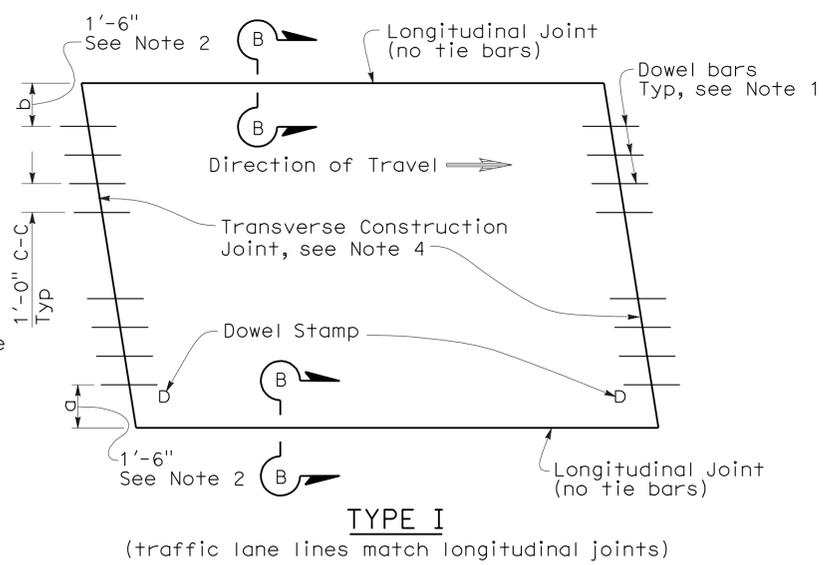
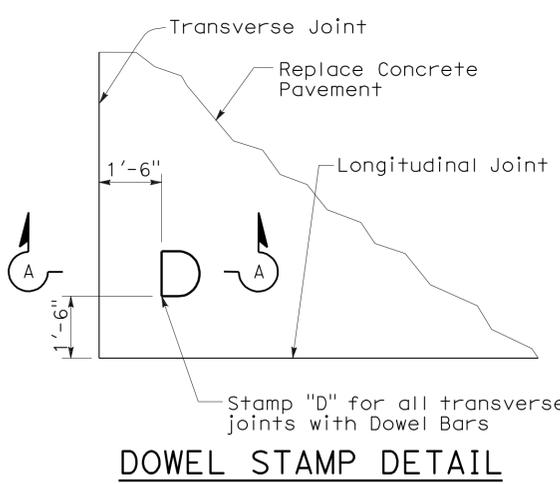
To accompany plans dated 12-5-11



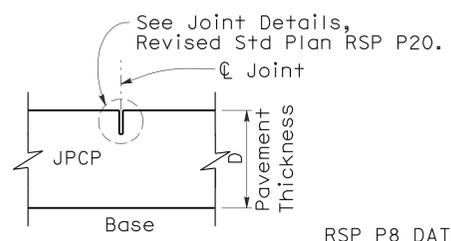
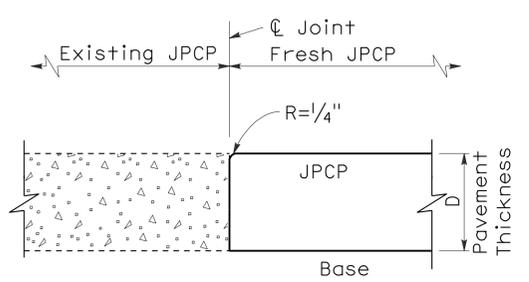
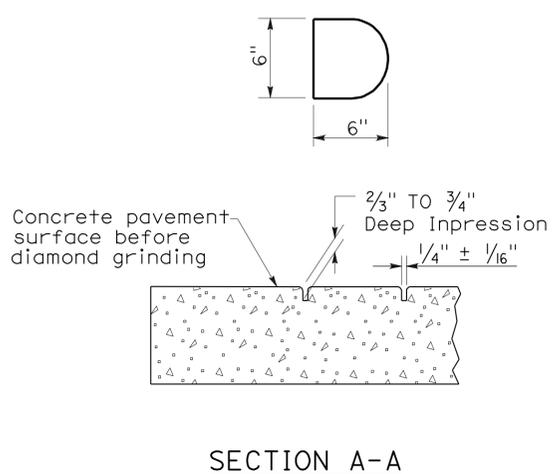
NOTES:

- For details not shown, see Revised Standard Plan RSP P10.
- Where the existing outer shoulder pavement is asphalt concrete pavement, the "a" dimension shall be 1'-0" and the "b" dimension shall be 2'-0".
- Side forms shall be used where edge of pavement is adjacent to asphalt concrete.
- For detail, see Transverse Construction Joint for existing concrete pavement detail on Revised Standard Plan RSP P10.
- Transverse joint to match skew of existing joint. Omit dowel bars.
- This Standard Plan only applicable when replacing multiple slabs in the same lane is less than 100'.

LEGEND



SLAB LAYOUT



SECTION B-B

SECTION C-C

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
JOINTED PLAIN CONCRETE PAVEMENT-INDIVIDUAL SLAB REPLACEMENT
 NO SCALE

RSP P8 DATED MAY 15, 2009 SUPERSEDES RSP P8 DATED SEPTEMBER 1, 2006 AND STANDARD PLAN P8 DATED MAY 1, 2006 - PAGE 123 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P8

2006 REVISED STANDARD PLAN RSP P8

NOTE:

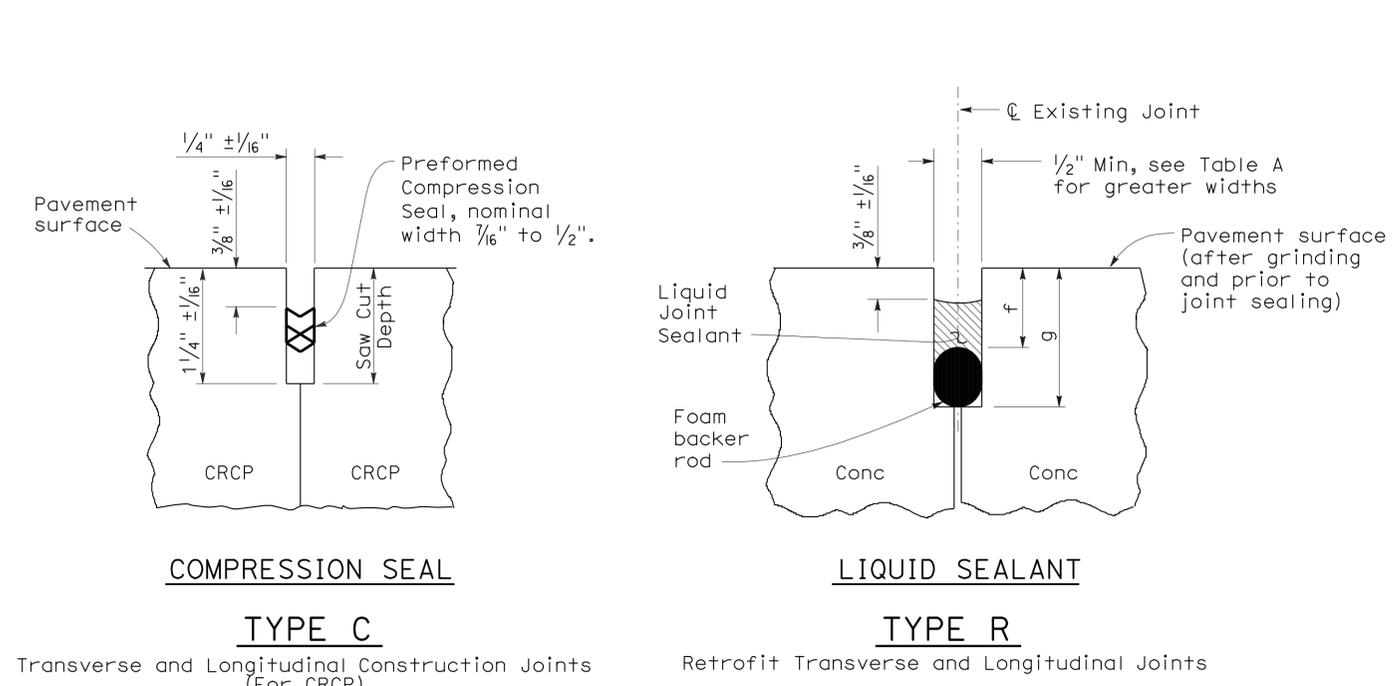
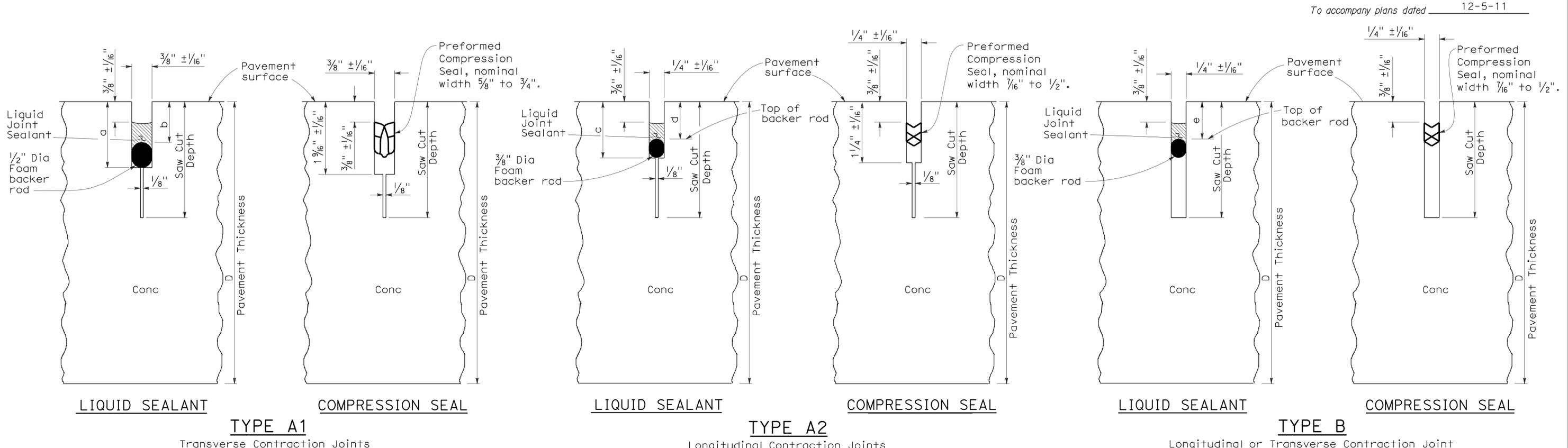
1. Tie bars, dowel bars, and reinforcement are not shown in joint seal details, see Revised Standard Plans RSP P1, RSP P3, RSP P10, RSP P35, RSP P45, or RSP P46 as applicable.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	17	76

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 No. C49042
 Exp. 9-30-10
 CIVIL
 STATE OF CALIFORNIA

May 15, 2009
 PLANS APPROVAL DATE

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LIQUID SEALANT RESERVOIR DEPTH

LIQUID SEALANT MATERIAL	3/8" Joint Width Type A1		1/4" Joint Width Type A2		1/4" Joint Width Type B
	DIMENSION		DIMENSION		DIMENSION
	a	b	c	d	e
SILICONE	1" ± 1/16"	5/8" ± 1/16"	15/16" ± 1/16"	9/16" ± 1/16"	9/16" ± 1/16"
ASPHALT RUBBER	1 3/16" ± 1/16"	3/4" ± 1/16"	1 1/16" ± 1/16"	11/16" ± 1/16"	11/16" ± 1/16"

TABLE A (TYPE R JOINT)

Sawn Joint Width	Backer Rod Diameter ± 1/16"	DIMENSION "f"	DIMENSION "g"
1"	1 5/16"	7/8"	2 1/4"
7/8"	1 3/16"	13/16"	2"
3/4"	1"	3/4"	1 3/4"
5/8"	7/8"	11/16"	1 1/2"
1/2"	11/16"	5/8"	1 1/4"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT-
 JOINT DETAILS**
 NO SCALE

RSP P20 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P20
 DATED MAY 1, 2006 - PAGE 128 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P20

2006 REVISED STANDARD PLAN RSP P20

NOTES:

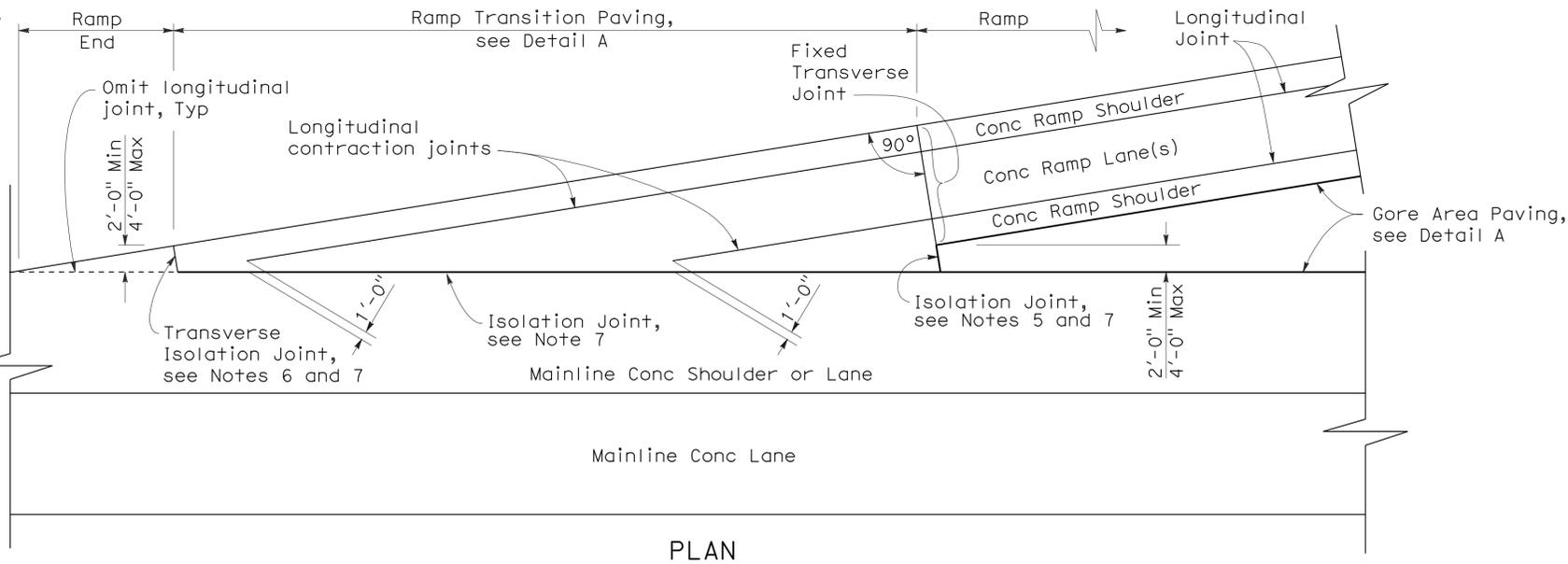
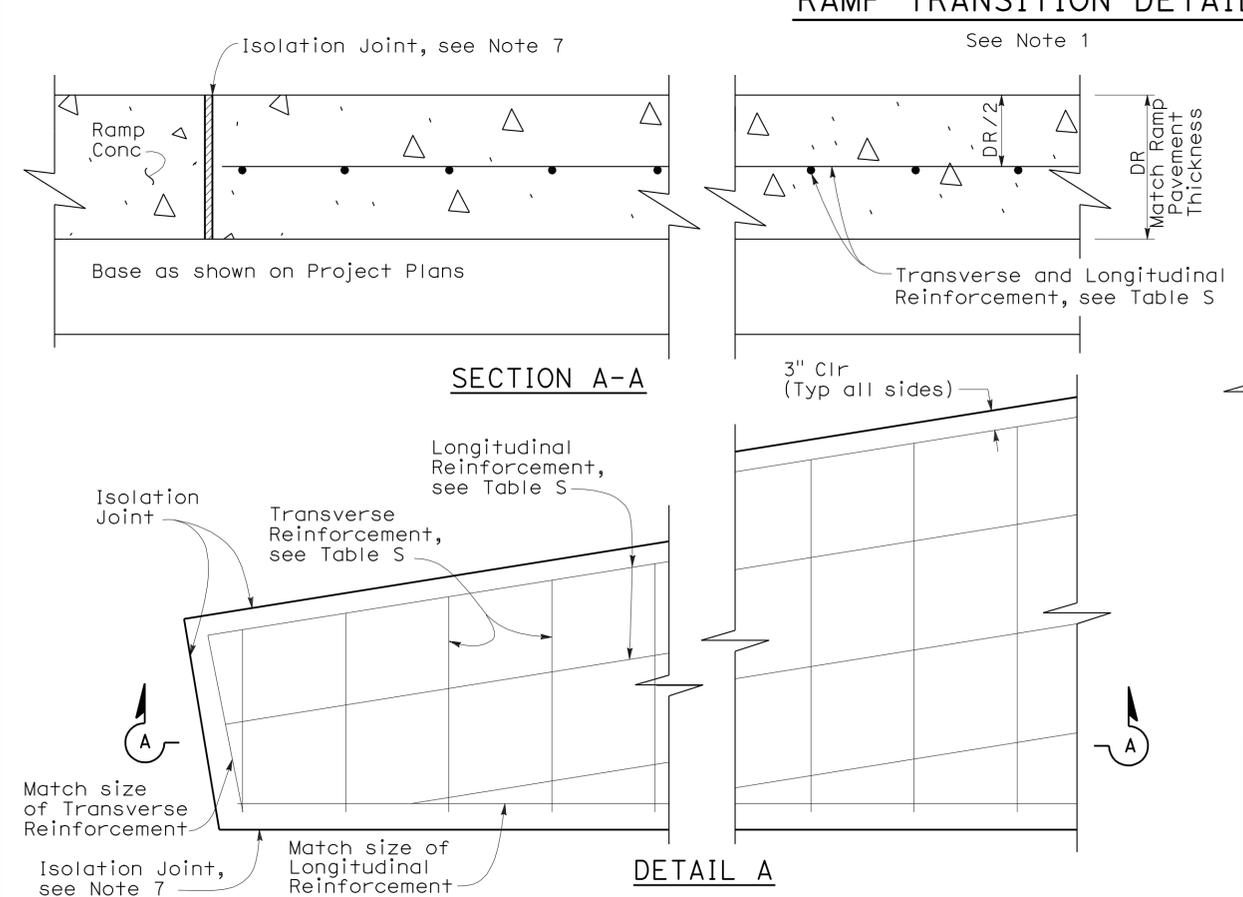
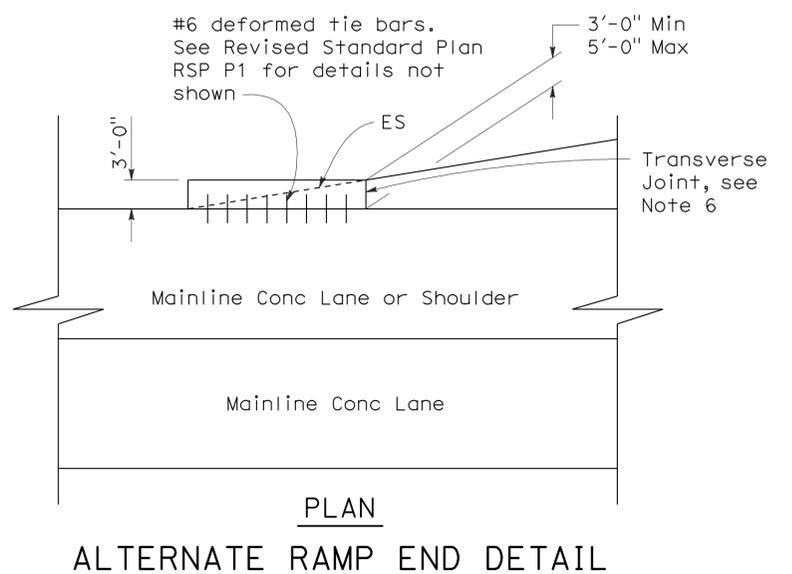
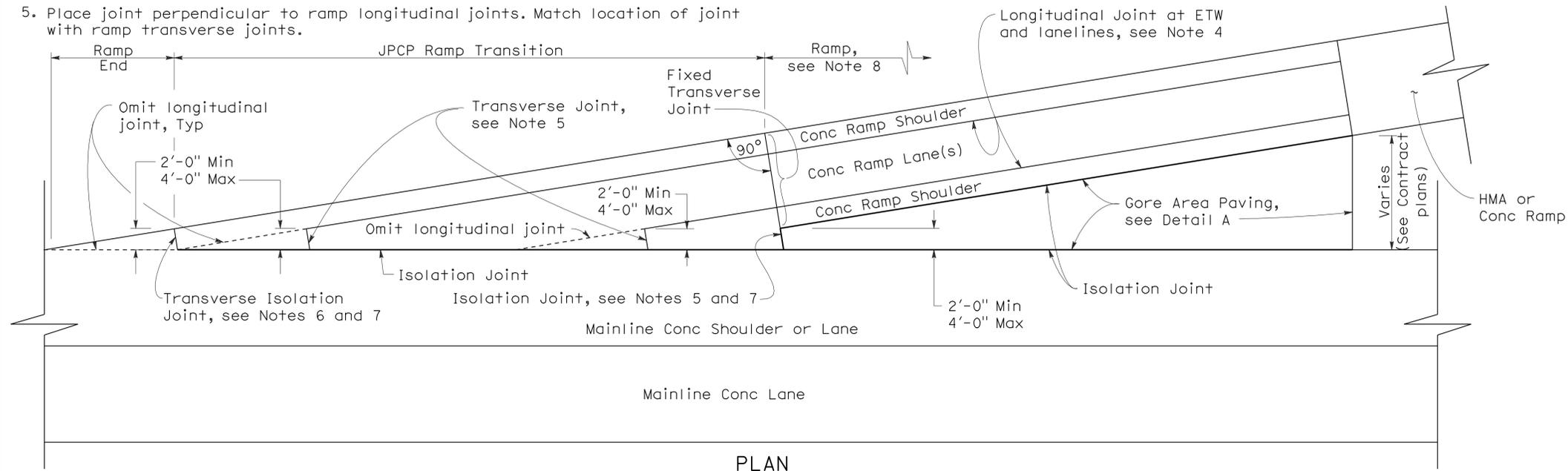
1. Details for gore area paving are applicable to both exit and entrance ramps.
2. Transverse Joint Layouts are not shown. Refer to Revised Standard Plan RSP P1 or Project Plans for details regarding joint layouts, tie bars, and dowel bars not shown.
3. WWF 4 x 4 - W4.0 x W4.0 can be used in place of steel reinforcement for gore area paving only.
4. Omit longitudinal joint when concrete on ramp shoulder is less than 3'-0".
5. Place joint perpendicular to ramp longitudinal joints. Match location of joint with ramp transverse joints.
6. Place joint perpendicular to ramp longitudinal joints. Match location of joint with mainline transverse joints.
7. Isolation joint detail shown on Revised Standard Plan RSP P18.
8. For jointed plain concrete pavement, transverse joints to be spaced from fixed transverse joint and shall follow spacing pattern on Revised Standard Plan RSP P1. Minimum spacing shall be 6 feet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	18	76

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 May 15, 2009
 PLANS APPROVAL DATE

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To accompany plans dated 12-5-11



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-RAMP TRANSITION PAVING DETAILS

NO SCALE

RSP P35 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P35
DATED MAY 1, 2006 - PAGE 131 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P35

5-8-09

2006 REVISED STANDARD PLAN RSP P35

TABLE S
(For JPCP and CRCP)

Location	Transverse Reinf	Longitudinal Reinf
Gore Area Paving	#4 @ 1'-0" *	#4 @ 1'-0" *
Ramp Transition (JPCP)	#6 @ 1'-6"	#6 @ 9"
Ramp Transition (CRCP)	See NSP P4, Table No. 2	See NSP P4, Table No. 1

* See Note 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	19	76

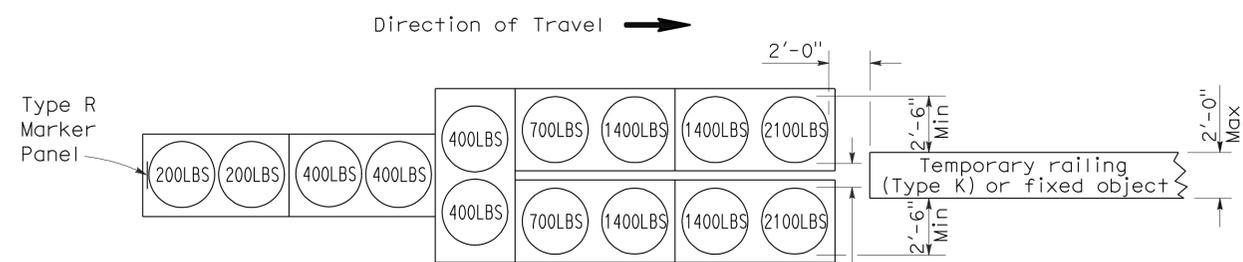
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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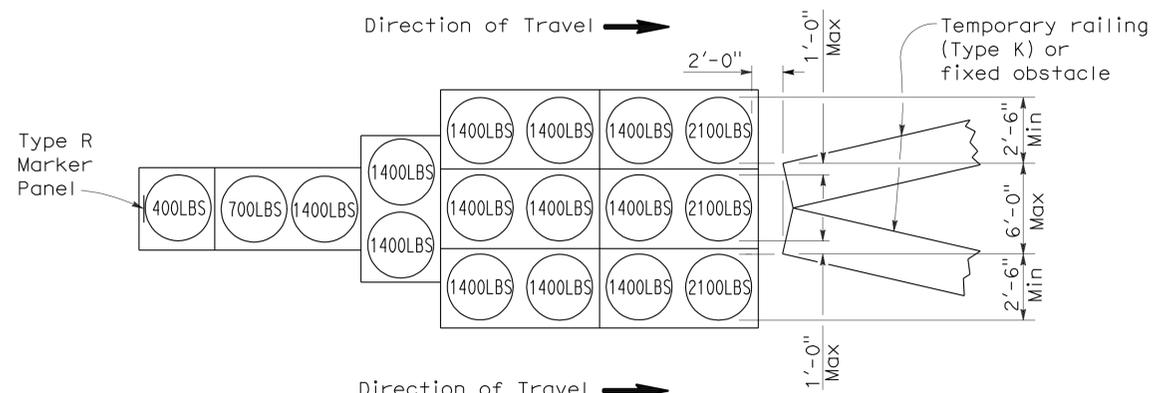
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 12-5-11



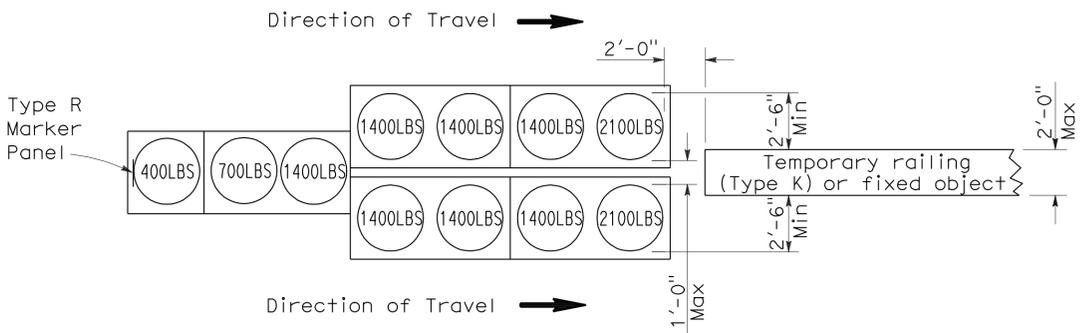
ARRAY 'TU14'

Approach speed 45 mph or more



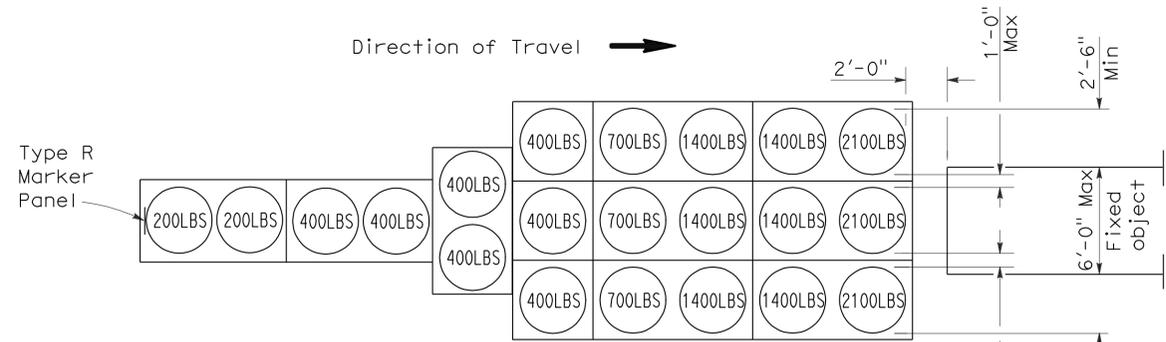
ARRAY 'TU17'

Approach speed less than 45 mph



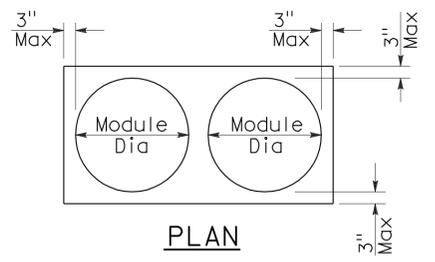
ARRAY 'TU11'

Approach speed less than 45 mph

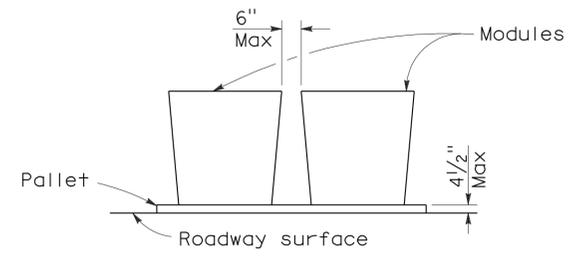


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

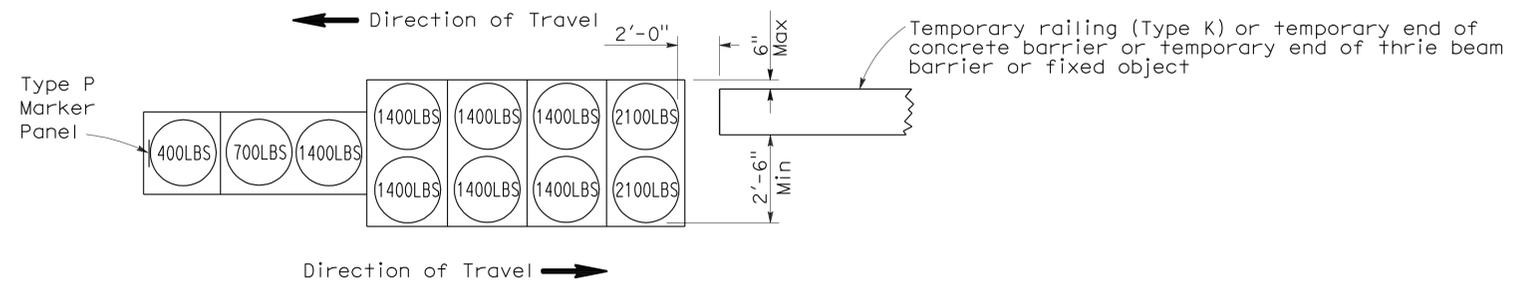
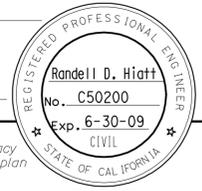
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	20	76

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

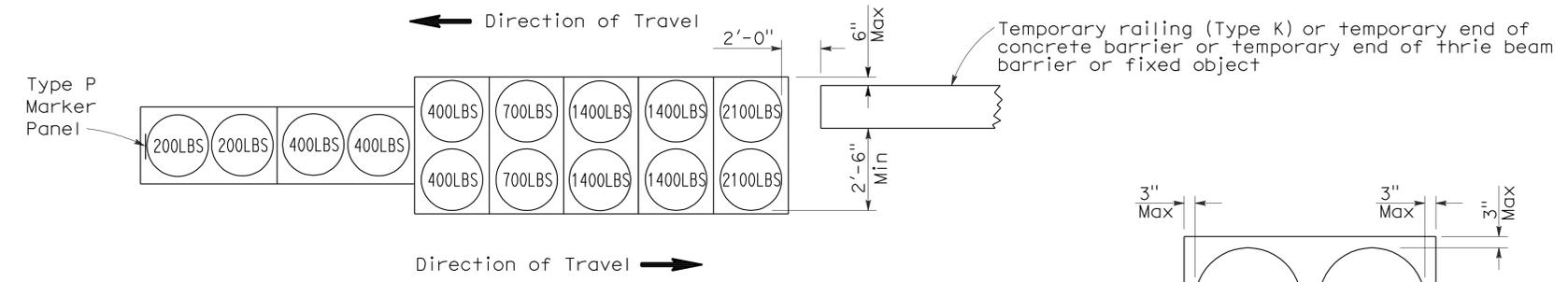
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To accompany plans dated 12-5-11



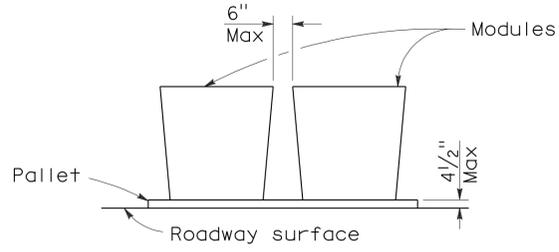
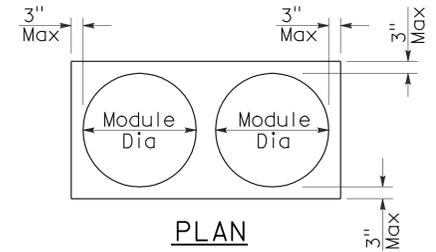
ARRAY 'TB11'

Approach speed less than 45 mph



ARRAY 'TB14'

Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

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

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	21	76

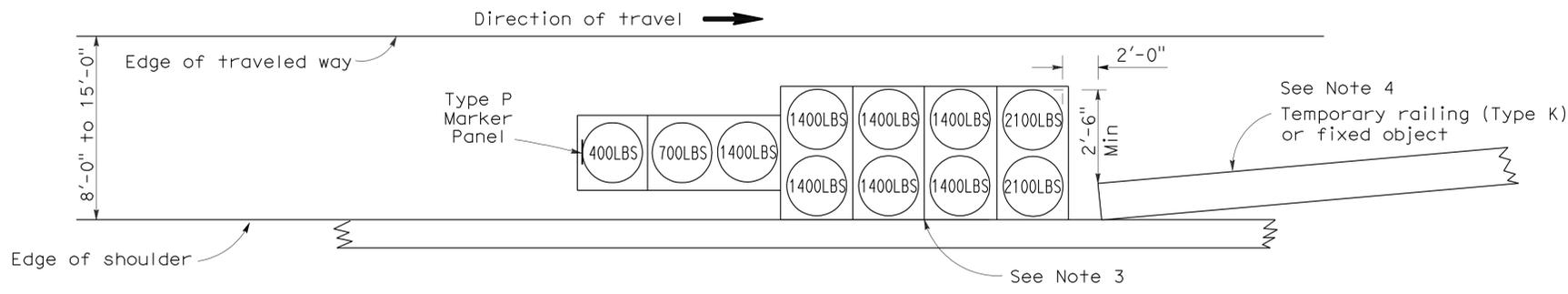
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

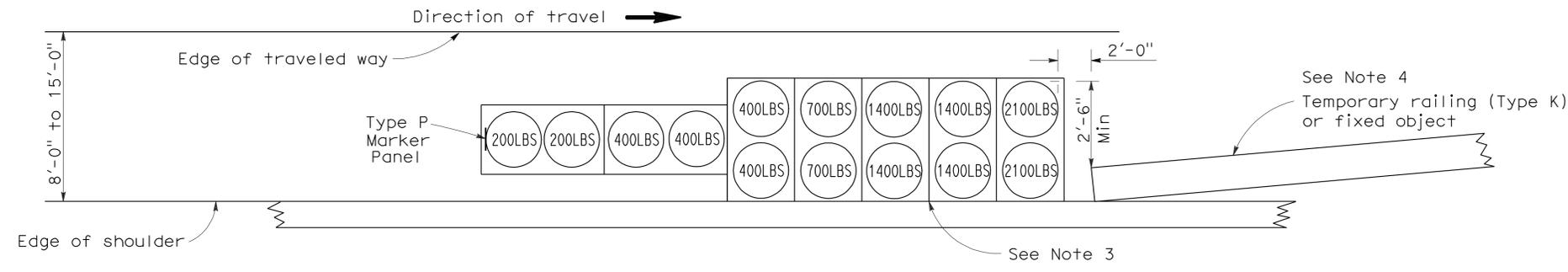
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 12-5-11



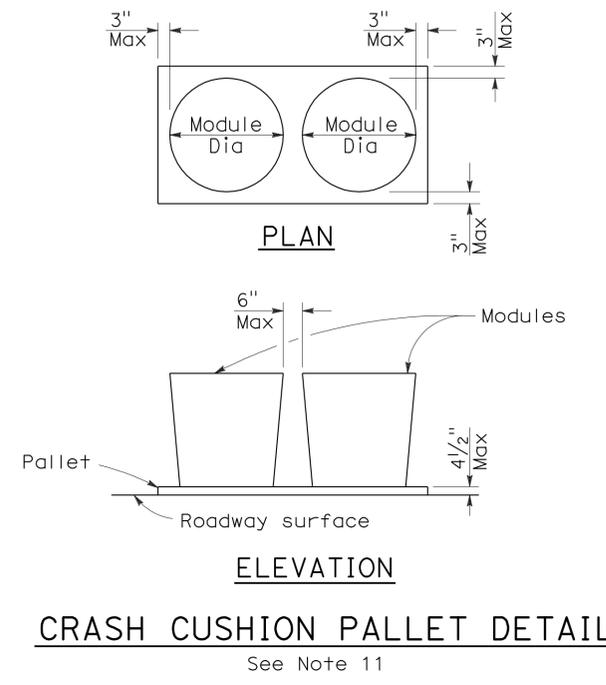
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

NOTES:

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



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

NO SCALE

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

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer	5	23.1/24.0	22	76

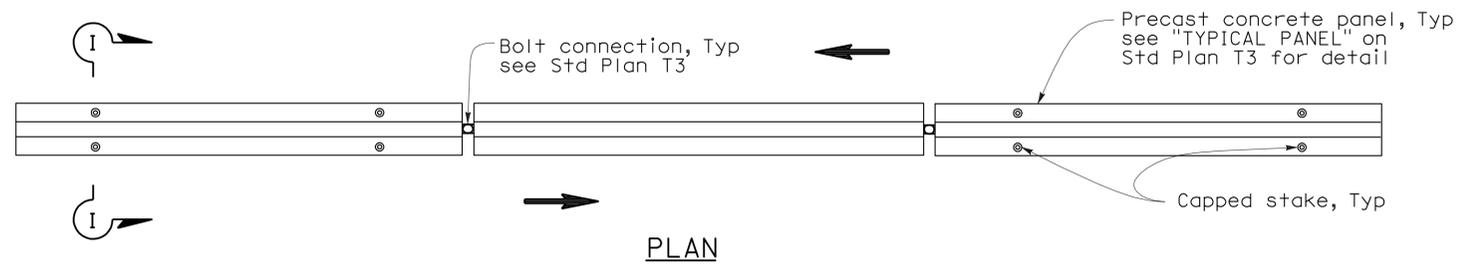
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

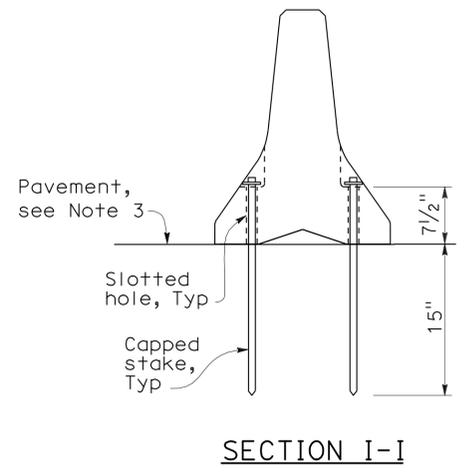
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 12-5-11

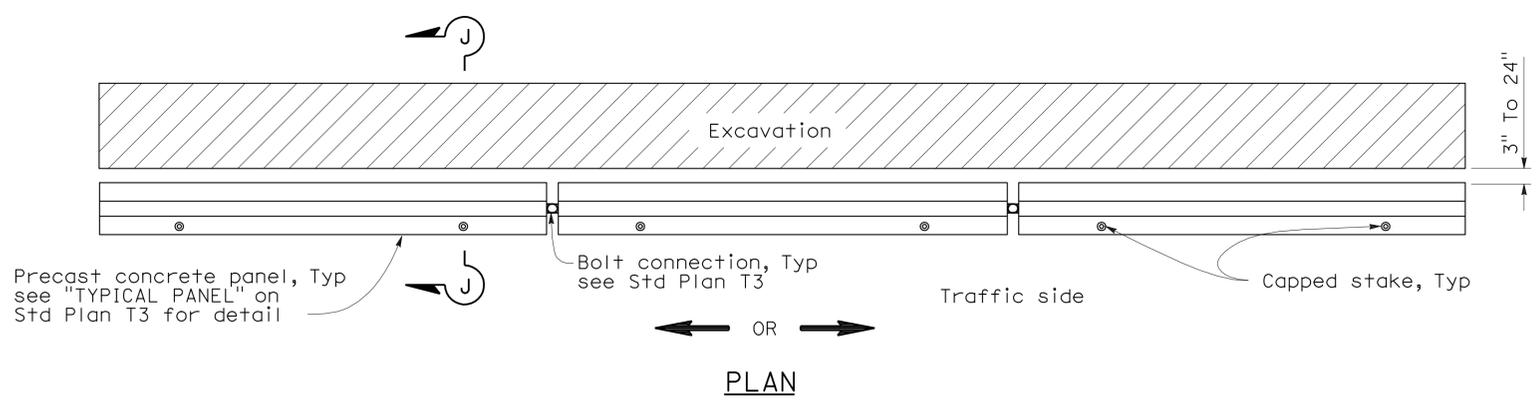


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

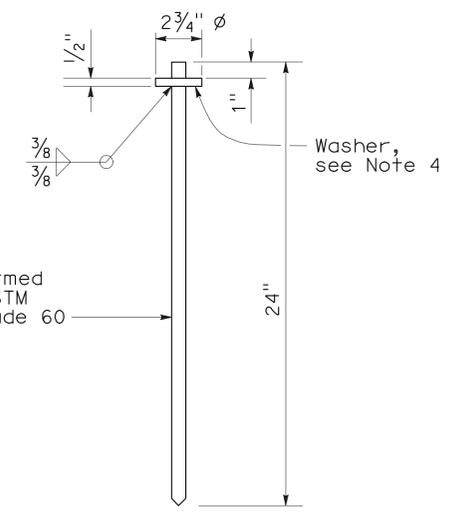
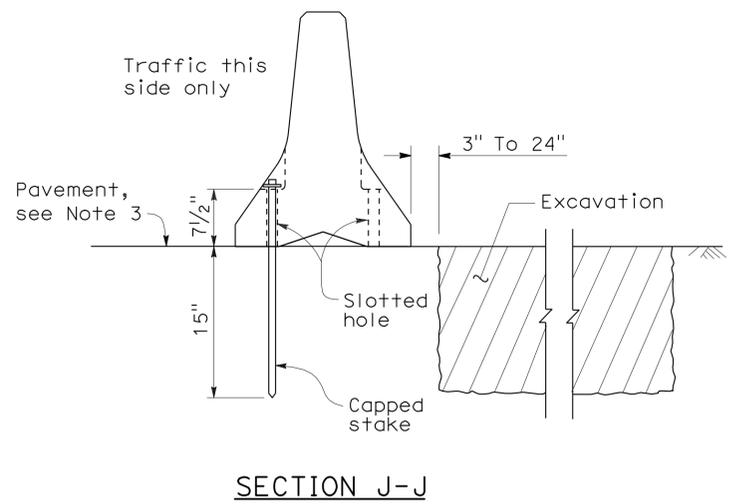


NOTES:

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



RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION
See Note 2

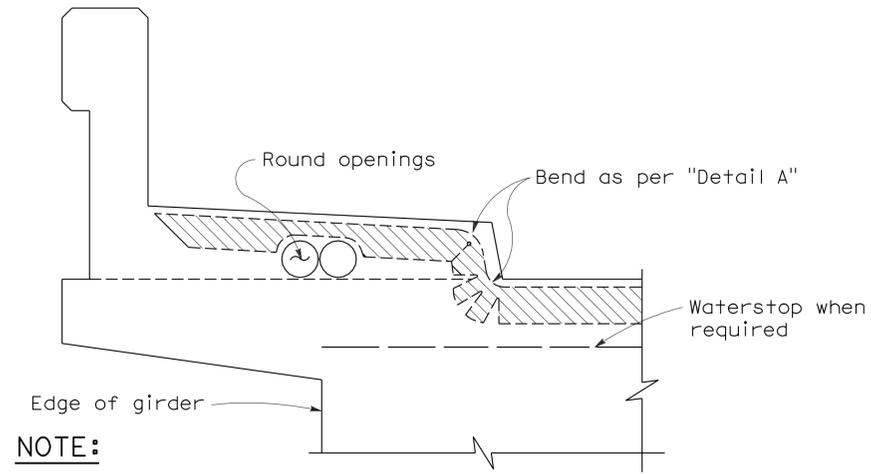


CAPPED STAKE DETAIL

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

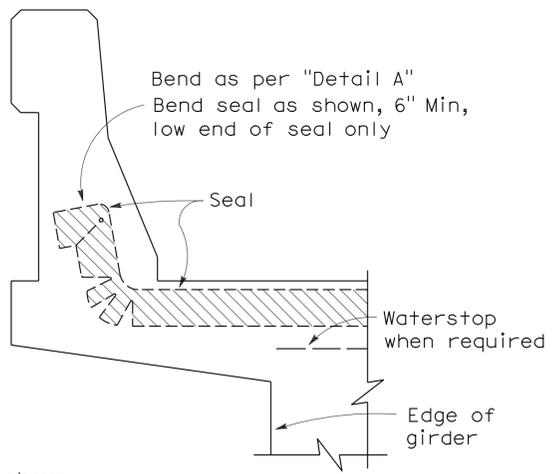
NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T3A

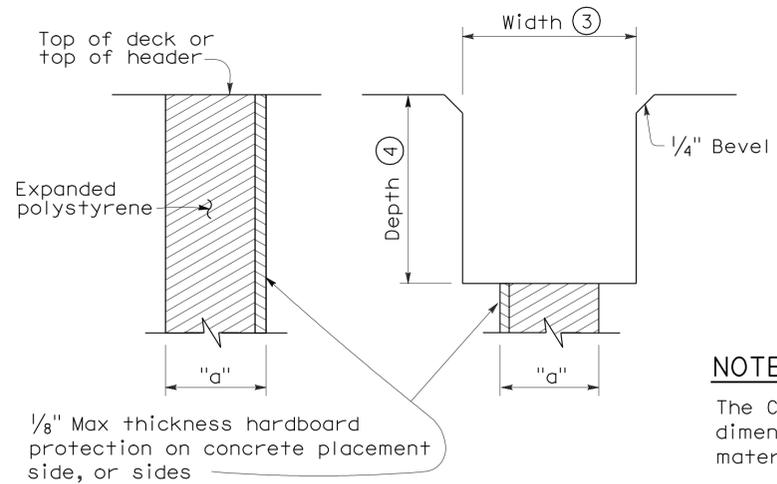


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



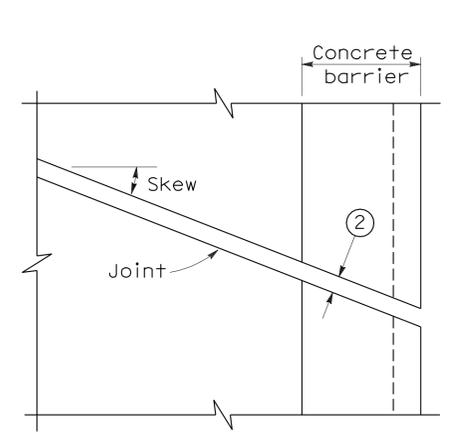
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

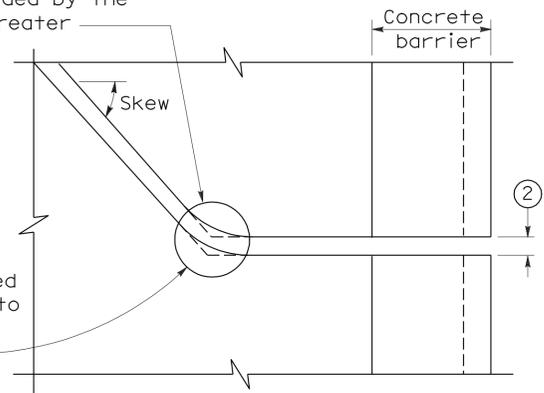
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



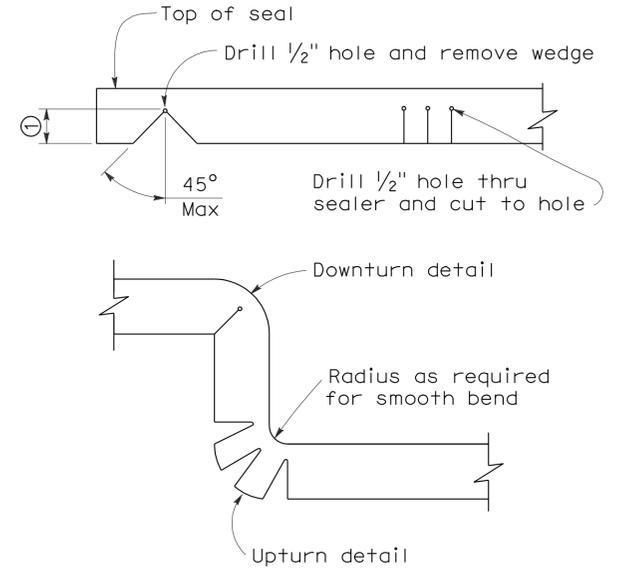
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



PLAN OF JOINT (SKEW > 20°)

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



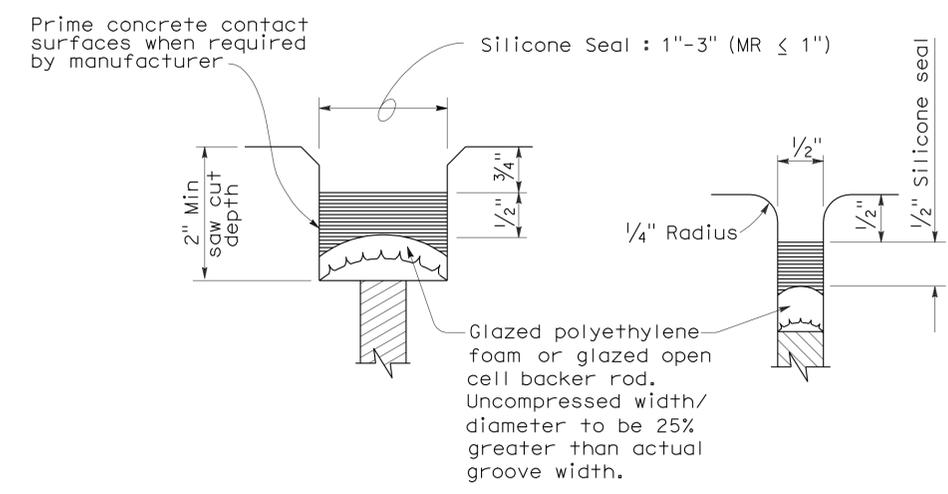
DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
 - Opening in barrier to match width of sawn deck joint.
 - Sawcut groove widths shall be as ordered by the Engineer.
 - Depth of sawcut: Type A - Depth to be 2" minimum.
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W₂) plus dimensions shown.
 - MR (movement rating) as shown on other plan sheets.
 - Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")
 NO SCALE

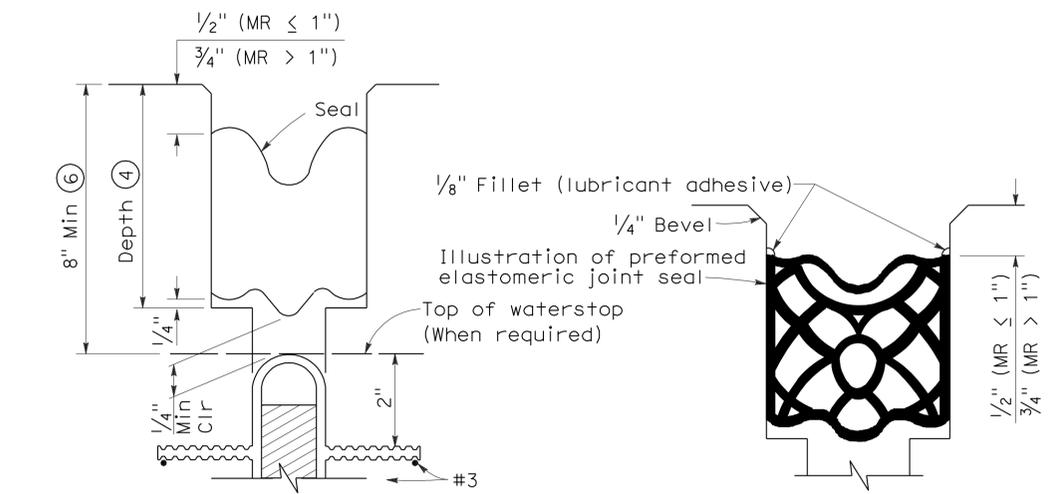


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



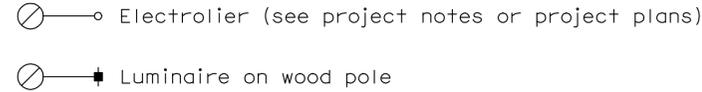
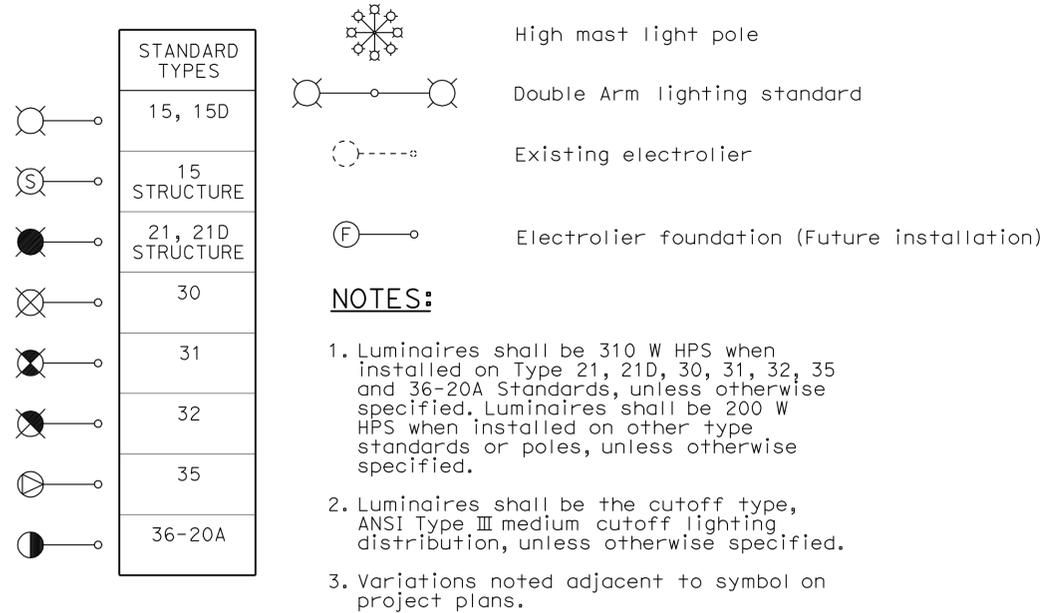
TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

Movement Rating ≤ 2"

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

ELECTROLIERS



STANDARD NOTES:

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

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	24	76

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

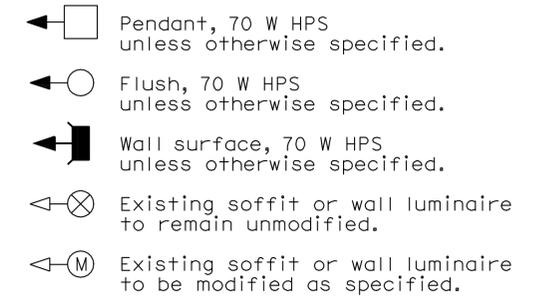
October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 12-5-11

SOFFIT AND WALL MOUNTED LUMINAIRES



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
10	Mer	5	23.1/24.0	25	76

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 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.

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

CONDUIT

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

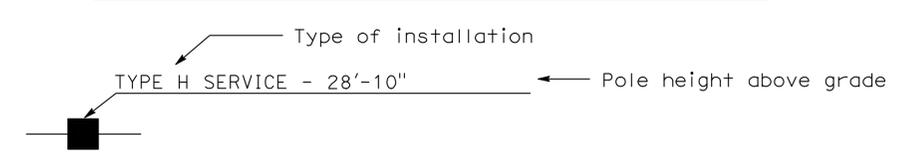
SIGNAL EQUIPMENT

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

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

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

SIGNAL EQUIPMENT Cont

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

NOTES:

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

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

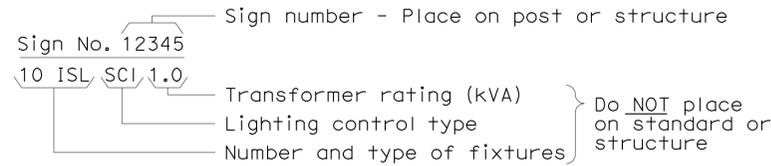
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

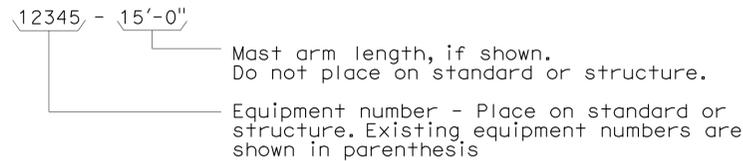
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

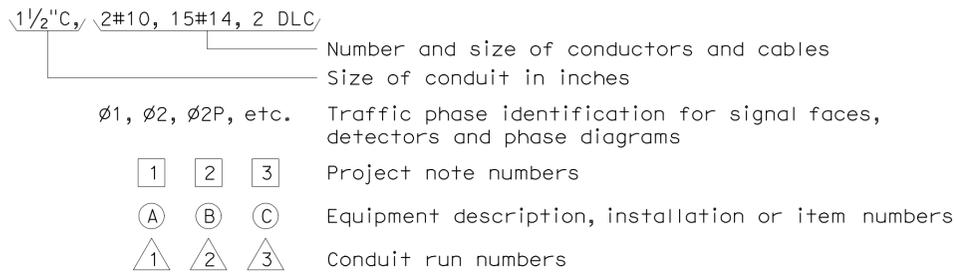
ILLUMINATED SIGN IDENTIFICATION NUMBER:



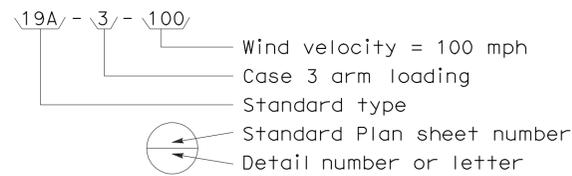
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



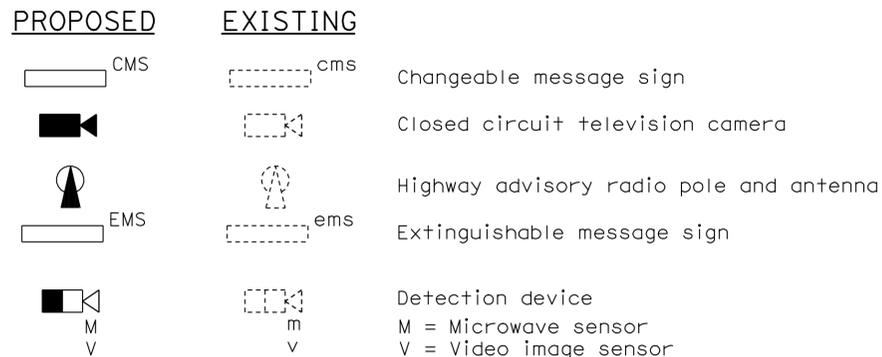
CONDUIT AND CONDUCTOR IDENTIFICATION:



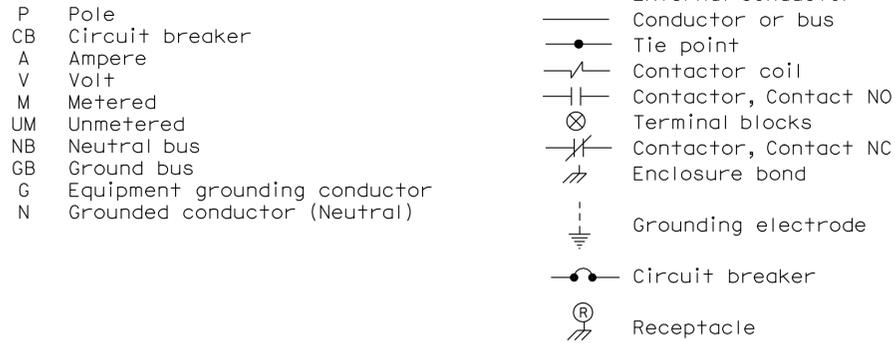
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



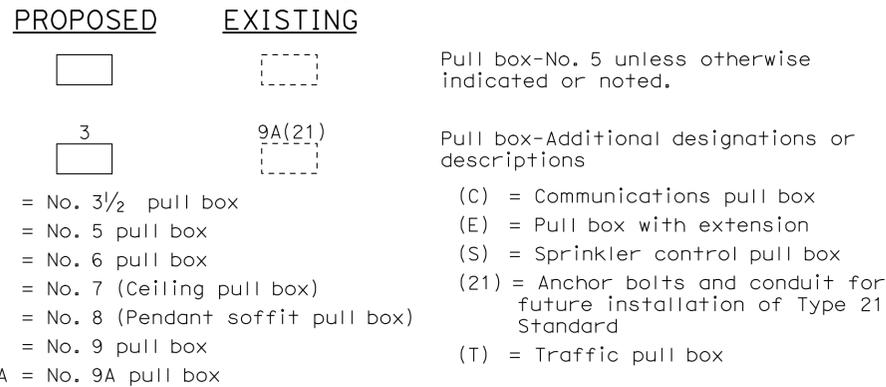
MISCELLANEOUS EQUIPMENT



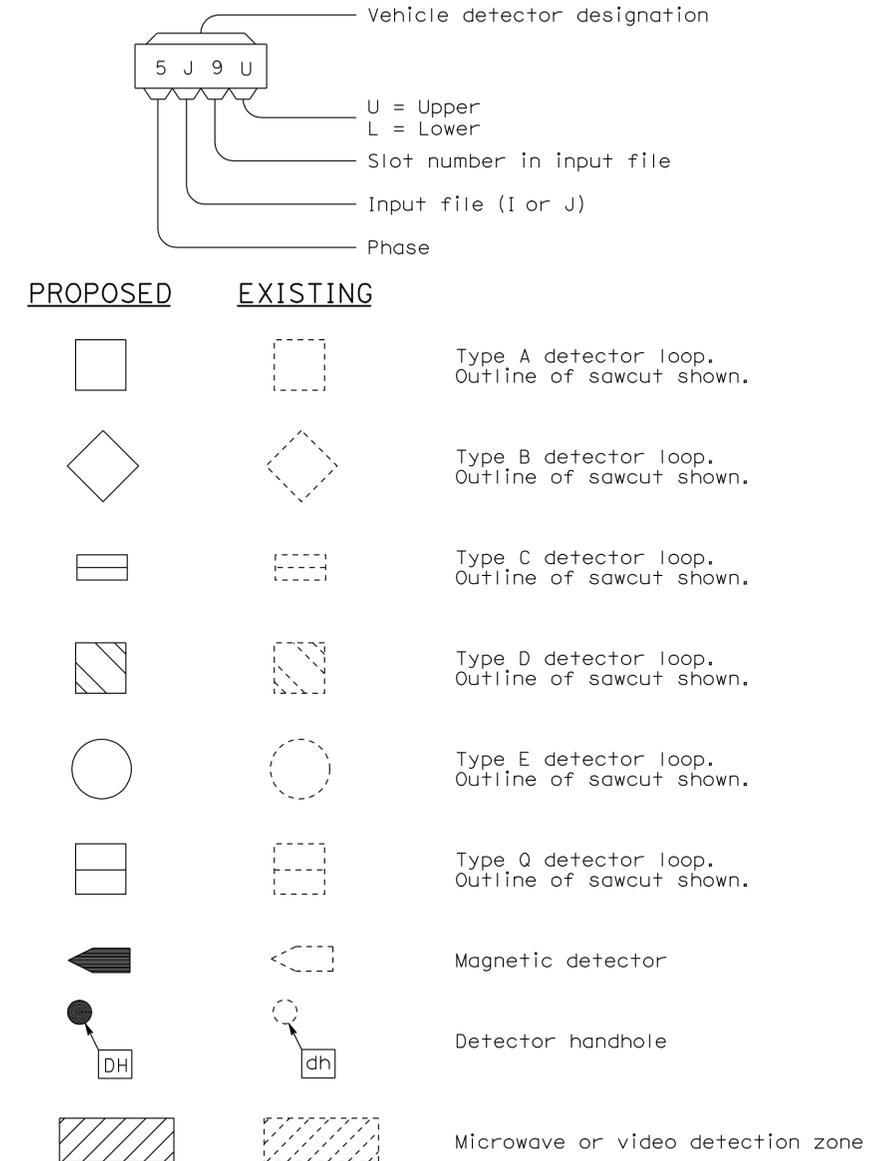
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

2006 REVISED STANDARD PLAN RSP ES-1C

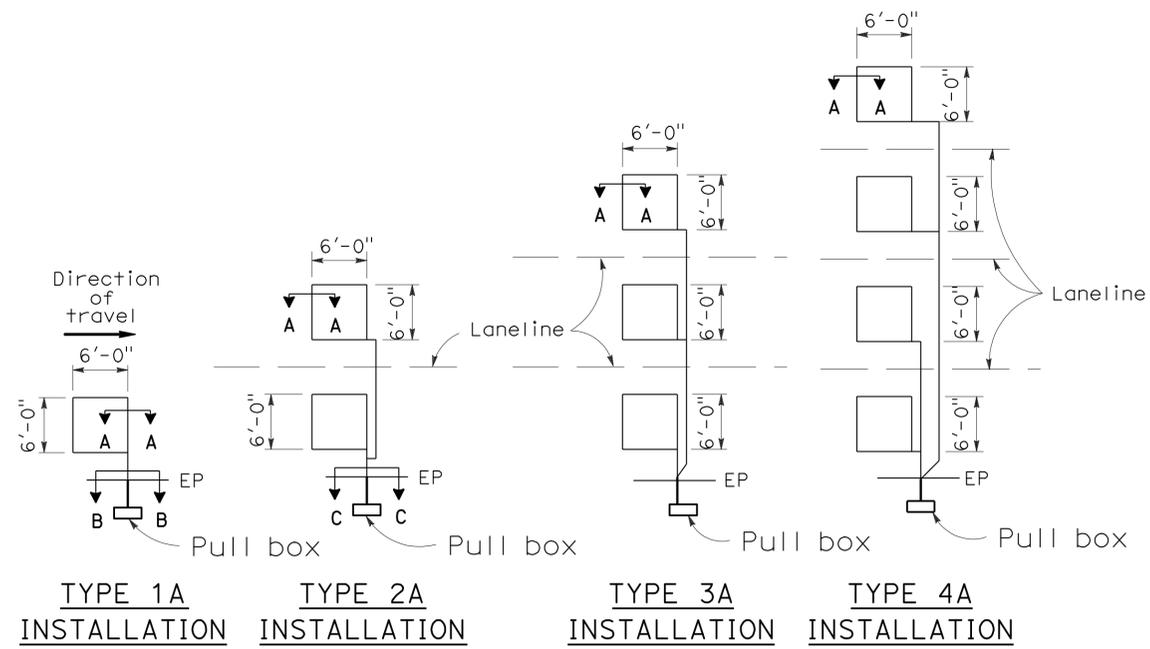
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	27	76

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 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.

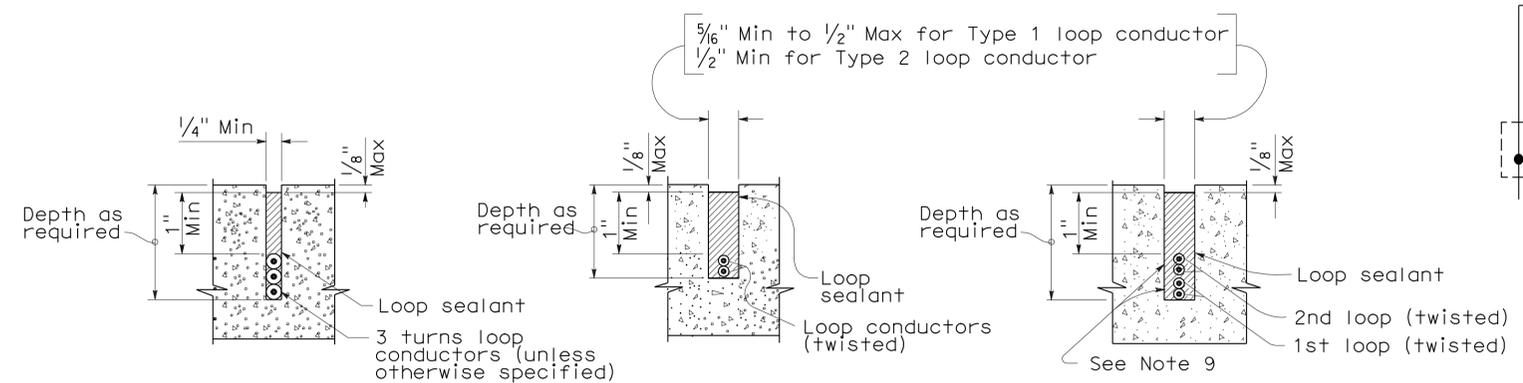
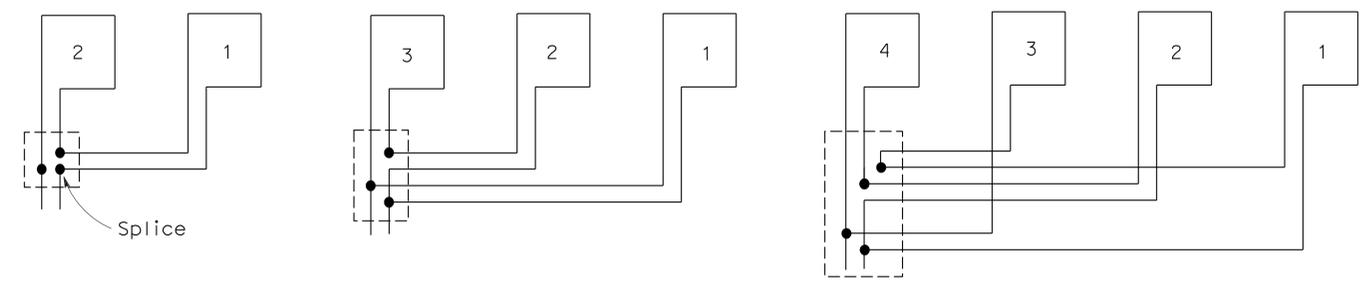
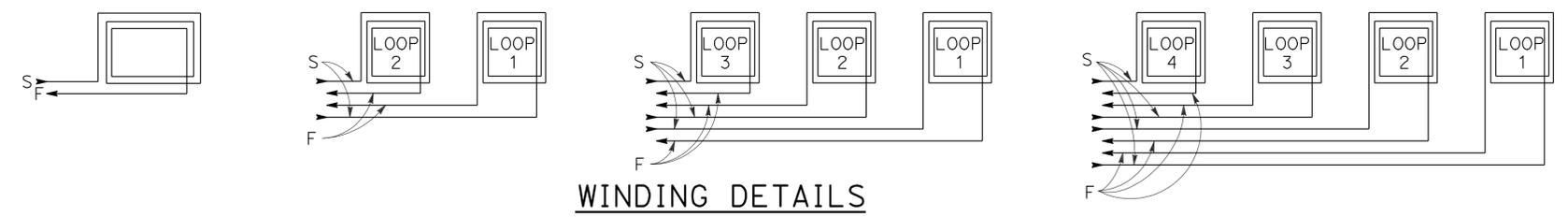
REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

LOOP INSTALLATION PROCEDURE

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



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



ELECTRICAL SYSTEMS (DETECTORS)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

NO SCALE

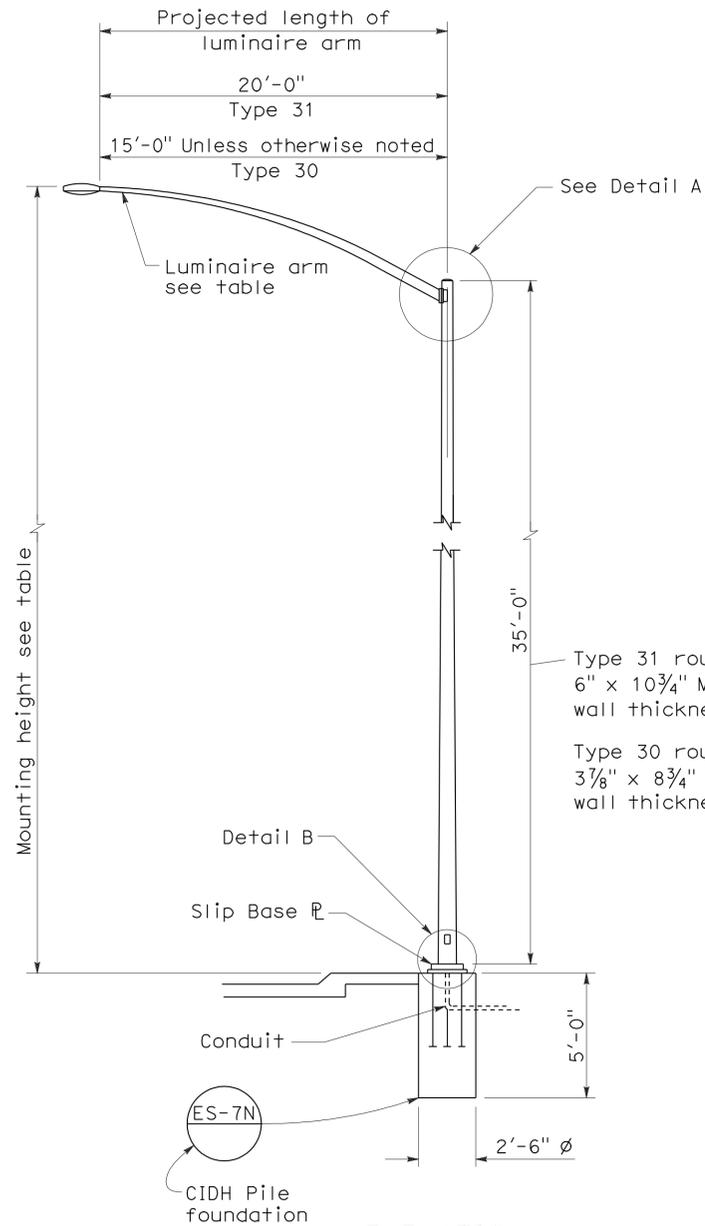
RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A
DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP ES-5A

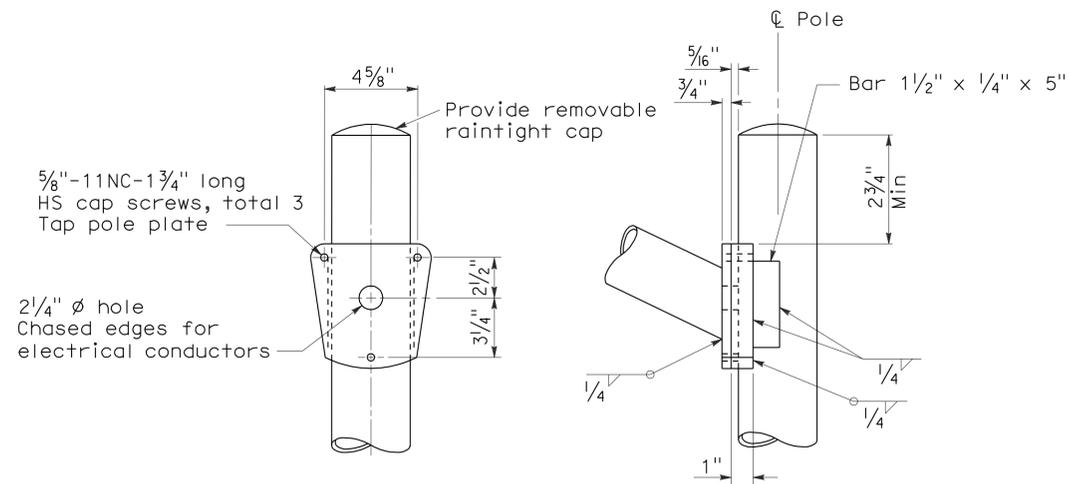
LUMINAIRE ARM DATA

PROJECTED LENGTH	THICKNESS	MINIMUM OD @ POLE	MOUNTING HEIGHT
* 6'-0"	0.1196"	3 1/4"	36'-9"±
8'-0"		3 1/2"	37'-3"±
10'-0"		3 3/4"	38'-0"±
12'-0"		3 3/4"	39'-0"±
15'-0"		4 1/4"	39'-6"±
** 20'-0"	0.1793"	5"	37'-0"±

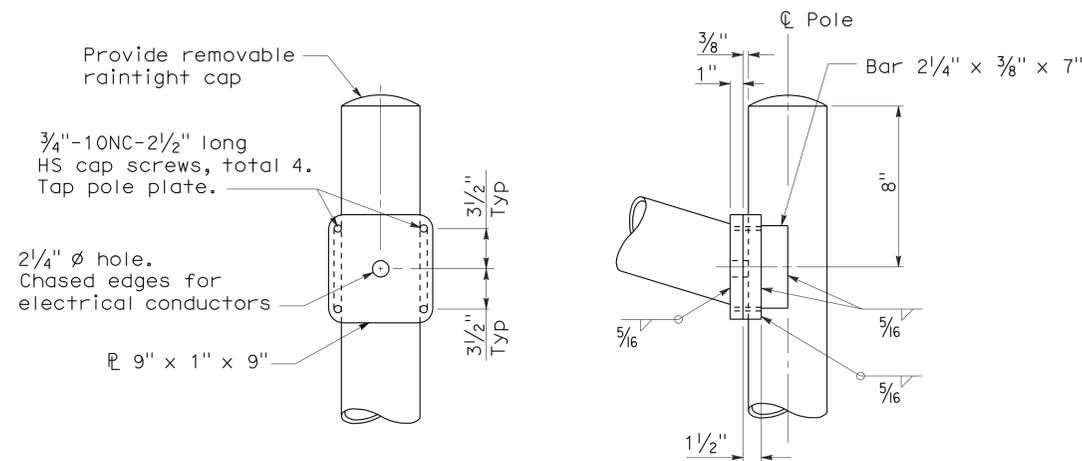
* Type 30 - arm length 6'-0" - 15'-0" maximum
 ** Type 31 - arm lengths 20'-0"



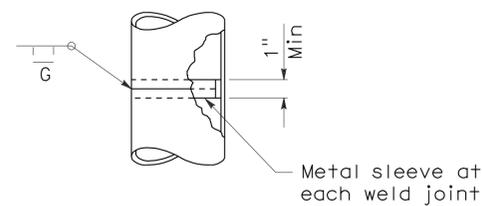
ELEVATION



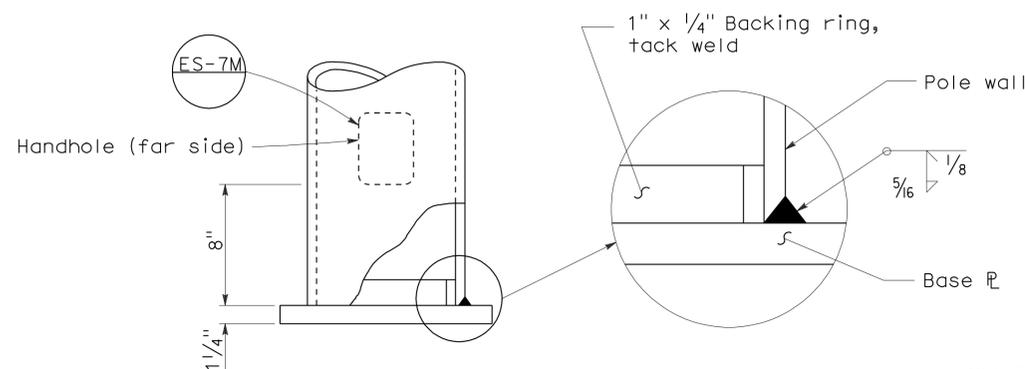
DETAIL A - TYPE 30



DETAIL A - TYPE 31



POLE SPLICE



DETAIL B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	28	76

Stanley P. Johnson
 REGISTERED CIVIL ENGINEER
 No. C57793
 Exp. 03-31-08
 CIVIL
 STATE OF CALIFORNIA

January 18, 2008
 PLANS APPROVAL DATE

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

To accompany plans dated 12-5-11

NOTES:

- Sheet steel shall have a minimum yield of 48,000 psi.
- For slip base details see Standard Plan ES-6F.
- For Type 30 fixed base use Type 15 base plate, and foundation shown on Revised Standard Plan RSP ES-6A. Use 1 1/4" Dia x 3'-6" x 4" anchor bolts.
- For Type 31 fixed base use Type 32 base plate, anchor bolts and foundation on Standard Plan ES-6G.
- Handhole shall be located on downstream side of traffic unless noted otherwise on plans.
- For additional general notes refer to Standard Plan ES-7M.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (LIGHTING STANDARD
 TYPES 30 AND 31)**

NO SCALE

RSP ES-6E DATED JANUARY 18, 2008 SUPERCEDES STANDARD PLAN ES-6E
 DATED MAY 1, 2006 - PAGE 430 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-6E

2006 REVISED STANDARD PLAN RSP ES-6E

INDEX OF SHEETS

SHEET No.	TITLE
GP	GENERAL PLAN

ARCHITECTURAL

SOUTHBOUND WEIGH STATION	
A-1	ARCHITECTURAL ABBREVIATIONS, SYMBOLS, PROJECT DATA AND NOTES
A-2	REMOVAL PLANS
A-3	FLOOR PLANS
A-4	SECTIONS AND DETAIL
A-5	ELEVATION AND LONGITUDE SECTIONS
A-6	COLOR KEY AND DETAILS

STRUCTURAL

SOUTHBOUND WEIGH STATION	
ST-1	LEGEND
ST-2	CONCRETE STANDARD
ST5-1	EXISTING SCALE PIT PLAN AND SECTION
ST5-2	SCALE PIT AND SECTION
ST5-3	SCALE PIT CROSS SECTION AND DETAILS
ST5-4	RESTRAINER ASSEMBLY
ST5-5	RESTRAINER ASSEMBLY
ST5-6	MISCELLANEOUS DETAILS

ELECTRICAL

EE0-1	LEGEND
EE0-2	SITE PLAN 1
EE0-3	SITE PLAN 2
EE0-4	SITE PLAN 3

SOUTHBOUND WEIGH STATION	
EE1-1	EXISTING SCALE HOUSE VICINITY
EE1-2	MODIFIED SCALE HOUSE VICINITY
EE1-3	SCALE HOUSE POWER AND COMMUNICATION PLAN
EE1-4	SCALE DESK POWER AND COMMUNICATION PLAN 1
EE1-5	SCALE DESK POWER AND COMMUNICATION PLAN 2
EE1-6	SCALE DESK POWER AND COMMUNICATION PLAN 3
EE1-7	HEIGHT AND SIGNAL PANEL SCHEMATIC DIAGRAM
EE1-8	WEIGH STATION MESSAGE SIGN CONTROL SCHEMATIC DIAGRAM
EE1-9	PUBLIC ADDRESS SYSTEM SCHEMATIC DIAGRAM
EE1-10	MAIN CONTROL CONSOLE
EE1-11	CCTV SYSTEM AND STATIC SCALE INTERCONNECTION DIAGRAM
EE1-12	SYSTEM INTERCONNECTION DIAGRAM
EE1-13	PANEL SCHEDULE
EE1-14	POLE MOUNTED CCTV CAMERA DETAILS
EE1-15	HEIGHT GAGE AND SPEAKER POLE DETAILS
EE1-16	ENLARGED PLAN

NORTHBOUND WEIGH STATION	
EE2-1	SCALE HOUSE POWER AND COMMUNICATION PLAN
EE2-2	POLE MOUNTED CCTV CAMERA DETAILS
EE2-3	WEIGH STATION MESSAGE SIGN CONTROL SCHEMATIC DIAGRAM
EE2-4	WEIGH STATION MESSAGE SIGN CONTROL CONSOLE

STRUCTURAL MESSAGE SIGNS

EE3-1	(SD-1)	ELEVATION LAYOUT
EE3-2	(SD-2)	WEIGH STATION MESSAGE SIGN LAYOUT
EE3-3	(SD-3)	MESSAGE SIGN MOUNTING DETAILS
EE3-4	(SD-4)	TRAFFIC SIGNAL & WEIGHT DISPLAY POLE DETAILS
EE3-5	(SD-5)	SPEAKER POLE DETAILS

SANITARY SEWER

SS-0	NOTES, LEGEND, AND ABBREVIATIONS
SS-1	SOUTHBOUND SITE PLAN
SS-2	NORTHBOUND SITE PLAN
SS-3	DETAILS

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	29	76

Catalino A. Enriquez
REGISTERED ELECTRICAL ENGINEER
DATE 12-08-10

REGISTERED PROFESSIONAL ENGINEER
C.A. ENRIQUEZ
No. 16944
Exp. 6-30-13
ELEC
STATE OF CALIFORNIA

12-5-11
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.

CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 04-27-11

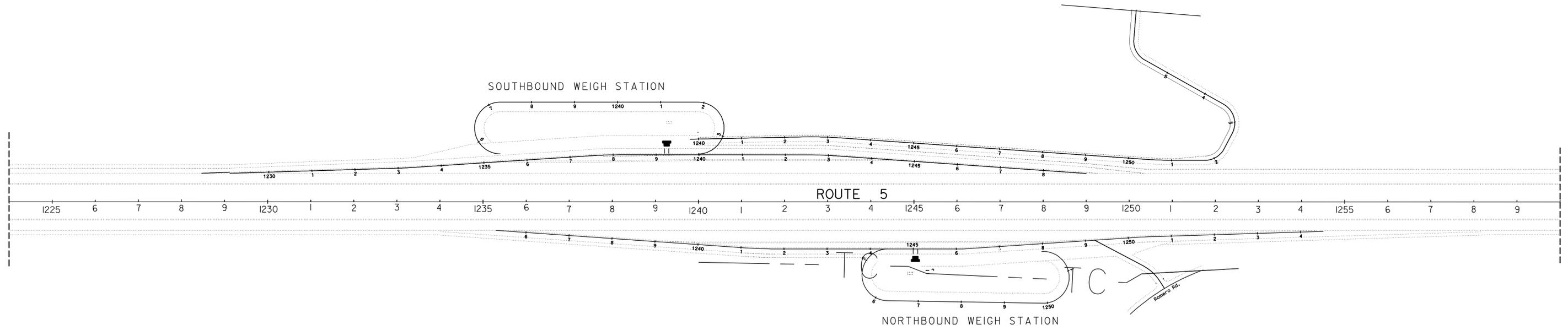
ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA

10-051901
DISTRICT - EA

EXEMPT

Reviewed by: *[Signature]*
Date: 6-24-10

UPDATED: 07/01/10
* PER 2007 CBC SEC. 1123B.2 & 1134B.2.1 EXCEPTION 4, AND 1991 ADAAG 4.1.1 (3) & 4.1.6 (1) (i)



SITE PLAN
NO SCALE

J. S. Sandhu
DESIGN SUPERVISOR

Catalino A. Enriquez
DESIGN ENGINEER

DESIGN	BY <i>C. A. Enriquez</i>	CHECKED <i>J. S. Sandhu</i>
DETAILS	BY <i>Dali Zhou</i>	CHECKED <i>C. A. Enriquez</i>
QUANTITIES	BY <i>C. A. Enriquez</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. 39W002R/L
POST MILE R23.5

SANTA NELLA WEIGH STATION UPGRADE
GENERAL PLAN

SHEET **GP** OF

ARCHITECTURAL ABBREVIATIONS

&	AND	EPB	ELECTRICAL PANELBOARD	LPG	LIQUIFIED PETROLEUM GAS	S	SOUTH
L	ANGLE	EQUIP	EQUIPMENT	LS	LAG SCREW	SC	SOLID CORE SCHEDULE
∅	CENTER LINE	ESCL	ESCALATOR	M	METER	SD	SOAP DISPENSER
∅	DIAMETER OR ROUND SQUARE	ETW	EDGE OF TRAVEL WAY	MB	MACHINE BOLT	SDST	SELF DRILLING SELF TAPPING SQUARE FEET
□	SQUARE	EWC	ELECTRIC WATER COOLER	MECH	MEMBER	SH	SH
d	PENNY	EXP	EXPOSED, EXPOSURE	MEMB	MEMBRANE	SHWR	SHOWER
°	DEGREE	EXPO	EXPOSED, EXPOSURE	MFR	MANUFACTURER	SHT	SHEET
		EXT	EXTERIOR	MIN	MINIMUM	SHTG	SHEATHING
A/C	AIR CONDITIONING	FDN	FLOOR DRAIN	MISC	MISCELLANEOUS	SIM	SIMILAR
AC	ASPHALT CONCRETE	FE	FIRE EXTINGUISHER	MISW	MISCELLANEOUS WASHER	SL	SCORE LINE
AB	ANCHOR BOLT	FEC	FIRE EXTINGUISHER CABINET	MM	MILLIMETER	SMS	SHEET METAL SCREW
ABV	ABOVE	FF	FINISH FLOOR	MO	MASONRY OPENING	SOHD	SECTIONAL OVERHEAD DOOR
ACOUS	ACOUSTICAL	FG	FINISH GRADE	MTD	MOUNTED	SPEC	SPECIFICATION
ADJ	ADJUSTABLE	FH	FIRE HYDRANT	MUL	MULLION	SPS	STRUCTURAL PLYWOOD SHEATHING
ALT	ALTERNATE	FHC	FIRE HOSE CABINET	N	NORTH	SQ	SQUARE
ALUM	ALUMINUM	FHMS	FLATHEAD METAL SCREW	ND	NAPKIN DISPOSAL	SRRA	SAFETY ROADSIDE REST AREA
APA	AMERICAN PLYWOOD ASSOCIATION	FHWS	FLATHEAD WOOD SCREW	NTS	NOT TO SCALE	SS	SERVICE SINK
ARCH	ARCHITECTURAL, ARCHITECT	FIN	FINISH	OBSC	OBSCURE	SST	STAINLESS STEEL
ASPH	ASPHALT	FJ	FLOOR JOIST	OC	ON CENTER	STA	STATION
		FLASH	FLASHING	OD	OUTSIDE DIAMETER	STAG	STAGGER
BD	BOARD	FLR	FLOOR	OFF	OFFICE	STD	STANDARD
BIT	BITUMINOUS	FLUOR	FLUORESCENT	OFD	OVERFLOW DRAIN	STL	STEEL
BLDG	BUILDING	FOC	FACE OF CONCRETE	OG	ORIGINAL GROUND	STOR	STORAGE
BLK	BLOCK	FOF	FACE OF FINISH	OH	OPPOSITE HAND	STRUC	STRUCTURAL
BLKG	BLOCKING	FOM	FACE OF MASONRY	OHD	OVERHEAD	SUSP	SUSPENDED
BLKG	BLOCKING	FOS	FACE OF STUD	OHS	OVERHEAD WOOD SCREW	T	TREAD
BM	BEAM	FRMG	FRAMING	OP	OPERATIONS	T&G	TONGUE & GROOVE
BN	BOUNDARY NAILING	FRPP	FIBERGLASS REINFORCED PLASTIC PANEL	OPNG	OPENING	TB	TOLL BOOTH
BOT	BOTTOM	FT	FEET, FOOT	OPP	OPPOSITE	TEL	TELEPHONE
BR	BRIDGE	FTG	FOOTING	OPT	OPTION, OPTIONAL	TEMP	TEMPERED
BTM	BOTTOM	FURR	FURRING	P	PITCH	TER	TERRAZZO
BTWN	BETWEEN	FWY	FREEWAY	PB	POST BASE	THK	THICK
BUR	BUILT-UP-ROOFING	GA	GAUGE	PC	POST CAP	THLD	THRESHOLD
		GAL	GALLON	PCC	PORTLAND CEMENT CONCRETE	TJ	TOOLED JOINT
CJ	CONTROL JOINT	GALV	GALVANIZED	PDF	POWDER DRIVEN FASTENERS	TKBD	TACKBOARD
CL	CHAIN LINK	GB	GRAB BAR	PH	PHILLIPS HEAD	TN	TOE NAIL
CAB	CABINET	GL	GLASS	PL	PLATE	TNVM	TAMPON/NAPKIN VENDING MACHINE
CB	CATCH BASIN	GLM	GLUE LAMINATED MEMBER	PLAM	PLASTIC LAMINATE	TOC	TOP OF CURB OR CONCRETE
CEM	CEMENT	GLZ	GLAZING	PLAS	PLASTER	TOP	TOP OF PAVEMENT
CER	CERAMIC	GR	GRADE	PLYWD	PLYWOOD	TOS	TOP OF WALL
CH	CLOTHES HOOK	GSM	GALVANIZED SHEET METAL	PMF	PRESSED METAL FRAME </td <td>TOT</td> <td>TOTAL</td>	TOT	TOTAL
CIDH	CAST IN DRILLED HOLE	GYP	GYP SUM	PR	PAIR	TOW	TOP OF WALL
CIP	CAST IN PLACE	GYP SHTG	GYP SUM SHEATHING	PRTN	PARTITION	TS	TUBE STEEL
CKBD	CHALKBOARD	HB	HOSE BIB	PT	POINT	TS	TUBE STEEL
CLG	CEILING	HC	HOLLOW CORE	PTD	PAPER TOWEL DISPENSER	TS	TUBE STEEL
CMU	CONCRETE MASONRY UNIT	HD	HEAD, HOLD DOWN	PTD/R	PAPER TOWEL DISPENSER /RECEPTACLE	TS	TUBE STEEL
		HDR	HEADER	PVC	POLYVINYL CHLORIDE	TSCD	TOILET SEAT COVER DISPENSER
CLO	CLOSET	HDW	HARDWOOD	PWB	PREFABRICATED WOOD I BEAM	TTD	TOILET TISSUE DISPENSER
CLR	CLEAR	HDWR	HARDWARE	QT	QUARRY TILE	TTY	TELETYPEWRITER
COL	COLUMN	HEX	HEXAGONAL	(R)	RELOCATED	TYP	TYPICAL
CONC	CONCRETE	HF	HEMLOCK-FIR	R	RADIUS, RISER	UNF	UNFINISHED
CONN	CONNECTION	HGR	HANGER	R/W	RIGHT OF WAY	UON	UNLESS OTHERWISE NOTED
CONST	CONSTRUCTION	HM	HOLLOW METAL	RD	ROOF DRAIN	UR	URINAL
CONT	CONTINUOUS	HORIZ	HORIZONTAL	RDWD	REDWOOD	VAR	VARIES
CORR	CORRIDOR	HP	HIGH POINT	REF	REFERENCE	VCT	VINYL COMPOSITION TILE
CPT	CARPET	HR	HOUR	REFG	REFRIGERATOR	VERT	VERTICAL
CT	CERAMIC TILE	HSB	HIGH STRENGTH BOLT	REINF	REINFORCED(ING)	VEST	VESTIBULE
CTR	CENTER	HT	HEIGHT	REQ	REQUIRED	VR	VENT RISER
CTSK	COUNTERSUNK	HVAC	HEATING, VENTILATING, AIR CONDITIONING	RFG	ROUGHSAWN	VTR	VENT THRU ROOF
CY	CUBIC YARD	HWY	HIGHWAY	RHSWN	ROUGHSAWN	W	WEST
		ID	INSIDE DIAMETER	RH	ROUND HEAD	W/	WITHOUT
DBL	DOUBLE	IN	INCH	RHWS	ROUND HEAD WOOD SCREWS	W/O	WITHOUT
DEPT	DEPARTMENT	INFO	INFORMATION	RJ	ROOF JOIST	WC	WATER CLOSET
DET	DETAIL	INSUL	INSULATION	RM	ROOM	WD	WOOD
DF	DOUGLAS FIR	INT	INTERIOR	RM	ROOM	WDW	WINDOW
DIA	DIAMETER	JAN	JANITOR	RO	ROUGH OPENING	WH	WATER HEATER
DIM	DIMENSION	JB	JUNCTION BOX	RSWN	RESAWN	WP	WORKING POINT
DN	DOWN	JH	JOIST HANGER	RO	ROUGH OPENING	WR	WATER RESISTANT
DP	DEEP	JST	JOIST	RTE	ROUTE	WSCT	WAINSCOT
DR	DOOR	JT	JOINT	RW	RETAINING WALL	WT	WEIGHT
DR	DOOR	KIT	KITCHEN	RWL	RAINWATER LEADER	WTPR	WATERPROOFING
DS	DOWNSPOUT	LAB	LABORATORY			WWF	WELDED WIRE FABRIC
DWG	DRAWING	LAV	LAVATORY			YD	YARD
DWR	DRAWER	LBS	POUNDS				
(E)	EXISTING	LFF	LINEAR FEET				
E	EAST	LKR	LOCKER				
EA	EACH	LLV	LONG LEG VERTICAL				
EF	EXHAUST FAN	LOL	LAYOUT LINE				
EHD	ELECTRIC HAND DRYER						
EJ	EXPANSION JOINT						
EL	ELEVATION (HEIGHT)						
ELEC	ELECTRICAL						
ELEV	ELEVATION (VIEW)						
ELVR	ELEVATOR						
EMER	EMERGENCY						
ENCL	ENCLOSURE						
EP	EDGE OF PAVEMENT						
EQ	EQUAL						

PROJECT DATA

APPLICABLE CODES INCLUDE:

- 2007 CALIFORNIA BUILDING CODE
- 2007 CALIFORNIA MECHANICAL CODE
- 2007 CALIFORNIA PLUMBING CODE
- 2007 CALIFORNIA ELECTRICAL CODE
- 2007 CALIFORNIA FIRE CODE
- CURRENT EDITION OF ADA

AS DEFINED IN THE 2007 CALIFORNIA BUILDING CODE THE CONSTRUCTION TYPE, OCCUPANCY GROUP, AND THE ALLOWABLE FLOOR AREA FOR THE BUILDING IN THIS PROJECT ARE:

TRUCK INSPECTION FACILITY

BUILDING CODE:	2007 C.B.C.
OCCUPANCY TYPE:	B OFFICE
CONSTRUCTION TYPE:	V-B
RATED CONSTRUCTION:	NR
BUILDING AREA ANALYSIS:	UNLIMITED, WITH 4 SIDE YARDS
BUILDING AREA:	240 SQ FT
ALLOWABLE AREAS:	9,000 SQ FT
BUILDING HEIGHT:	1 STORY
ALLOWABLE HEIGHT:	2 STORY

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	30	76
			5-12-10		
LICENSED ARCHITECT			DATE		
12-5-11					
PLANS APPROVAL DATE					
<i>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.</i>					

CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Polly Parenti*
POLLY PARENTI

Approval date: 04-27-11

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS OR ASSEMBLIES.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL MEASUREMENTS OR FIELD CONDITIONS.

SYMBOLS

	BUILDING SECTION LETTER
	SHEET
	ADDITIONAL REFERENCE (IF USED)
	DETAIL NUMBER
	SHEET
	WORKING POINT
	ROOM NUMBER
	DOOR DESIGNATION
	WINDOW DESIGNATION
	LOUVER DESIGNATION
	COLOR DESIGNATION
	SHADED ARROW INDICATES ELEVATION DRAWN
	SECTION LETTER; SECTION DRAWN ON SAME SHEET
	ELEVATION LETTER; ELEVATION DRAWN ON SAME SHEET
	DRAWN ON SAME SHEET

a_1_abv_1.dgn	DESIGN BY	Q. WONG	CHECKED	<i>Quincy Wong</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	39W0002R/L	SANTA NELLA WEIGH STATION UPGRADE	SHEET	A-1	
	DETAILS BY	S. YEH	CHECKED	<i>Quincy Wong</i>		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE		R23.5	SOUTHBOUND SCALE HOUSE	ARCHITECTURAL ABBREVIATIONS, SYMBOLS, PROJECT DATA AND NOTES
	QUANTITIES BY	F. IGNACIO	CHECKED	F. IGNACIO					REVISION DATES (PRELIMINARY STAGE ONLY)		
DS OSD Imperial Rev. 11/98 07-DEC-2011 13:17	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT	3598	DISREGARD PRINTS BEARING EARLIER REVISION DATES	07-16-08 09-30-08 07-15-09 05-12-10	SHEET OF	X X

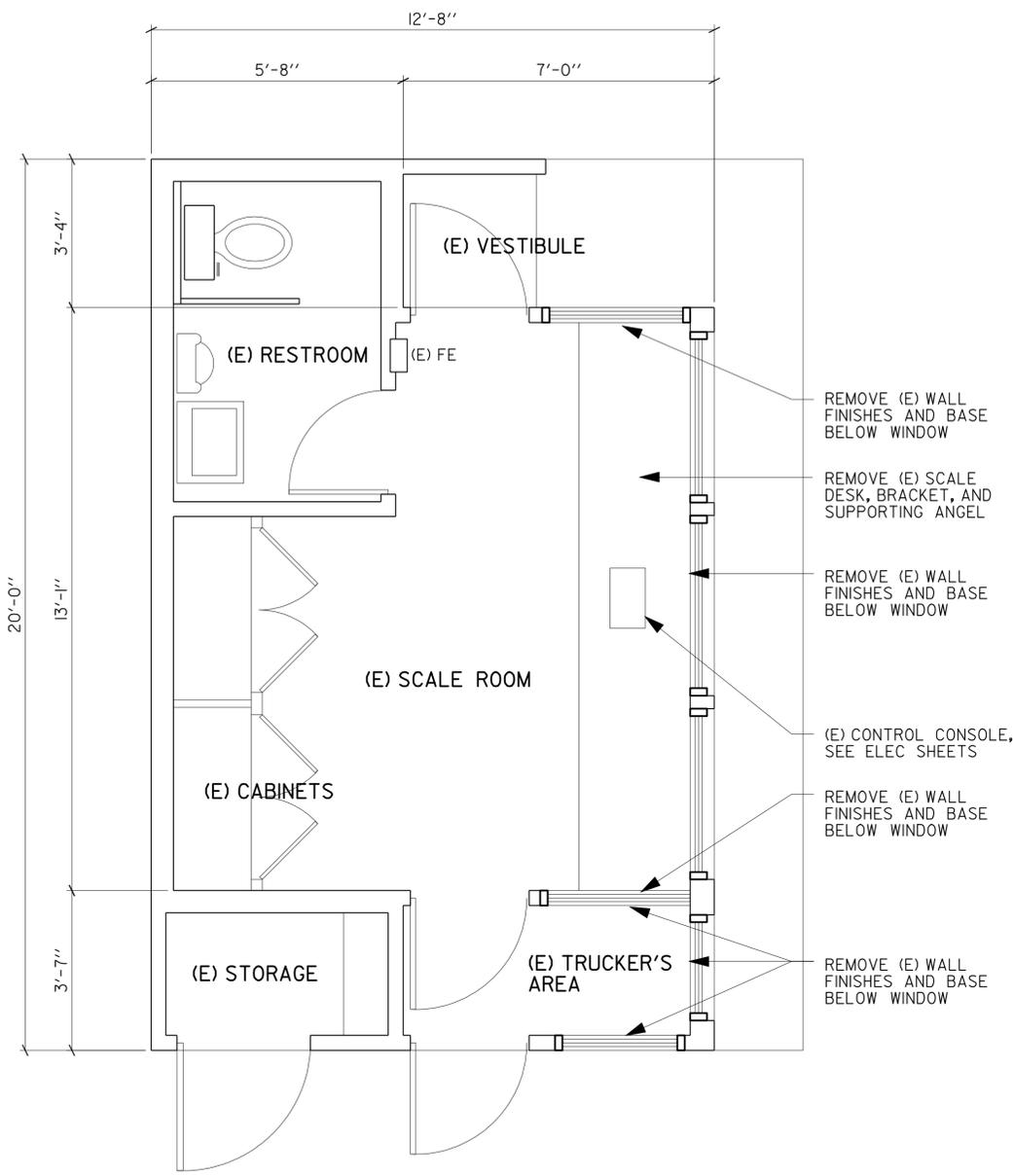
07-DEC-2011 13:17

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	31	76
 LICENSED ARCHITECT			5-12-10 DATE	 LICENSED ARCHITECT QUINCY J. WONG No. C-18849 Exp. 5-31-13 STATE OF CALIFORNIA	
12-5-11 PLANS APPROVAL DATE					
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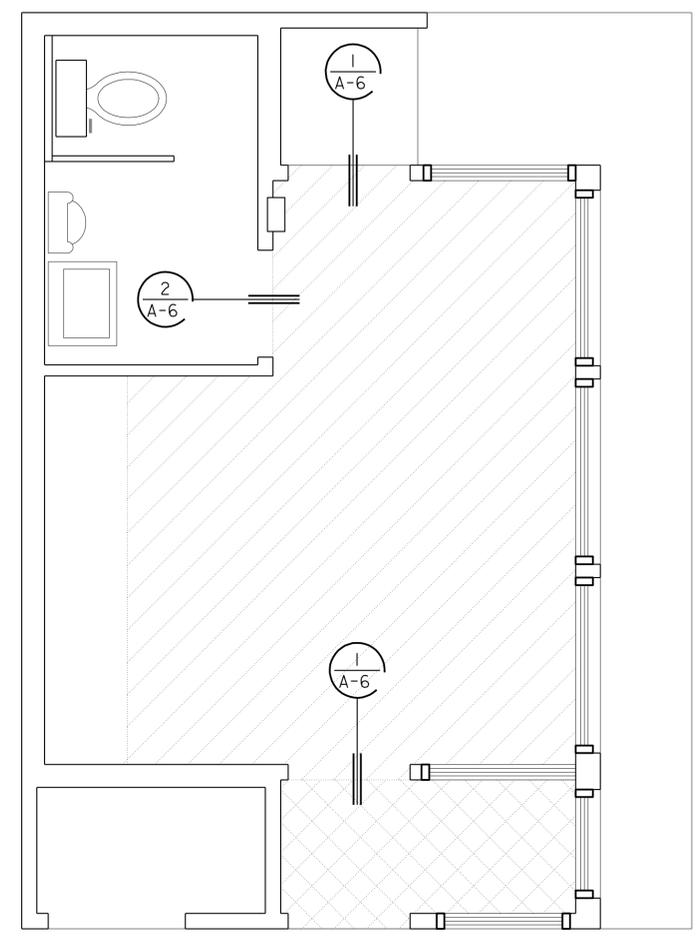
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Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 04-27-11



1 SCALE DESK REMOVAL PLAN
 SCALE 1/2" = 1'-0"



LEGEND:

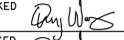
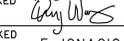
 VCT FLOORING IN HATCHED AREA TO BE REMOVED FOR ELECTRICAL WORK, HATCHED AREA TO BE REPLACED W/VCT AFTER ELECTRICAL WORK IS COMPLETED

 CONC FLOORING IN HATCHED AREA TO BE RESTORED, CLEANED, FINISHED PER COLOR KEY ON A-6, AFTER ELECTRICAL WORK IS COMPLETED, SEE ELEC SHEETS

2 FLOOR REMOVAL PLAN
 SCALE 1/2" = 1'-0"



- GENERAL NOTES:**
- FOR LOCATION OF EXISTING UTILITIES, REFER TO ELECT. & SANITARY DWGS. ALL UNDERGROUND UTILITIES AFFECTED BY THE CONTRACTED WORK MUST BE FIELD LOCATED.
 - THE CONTRACTOR MUST VERIFY THE ACTUAL LOCATION OF UNDERGROUND PIPES BEFORE EXCAVATION.
 - POST DEMOLITION & REMOVAL WORK, CONTRACTOR TO RESTORE ALL REMAINING ITEMS & SURFACES PRIOR TO EXISTING CONDITION.
 - DIMENSIONS OF EXISTING SITE & BUILDING ITEMS ARE BASED ON THOSE STATED IN ORIGINAL PLANS; CONTRACTOR TO VERIFY CORRECTNESS OF DIMENSIONS.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THESE PLANS & ACTUAL MEASUREMENTS OR FIELD CONDITIONS.
 - CONTRACTOR TO VERIFY REMOVAL OF ALL ITEMS FOUND BUT NOT SPECIFIED IN PLANS.

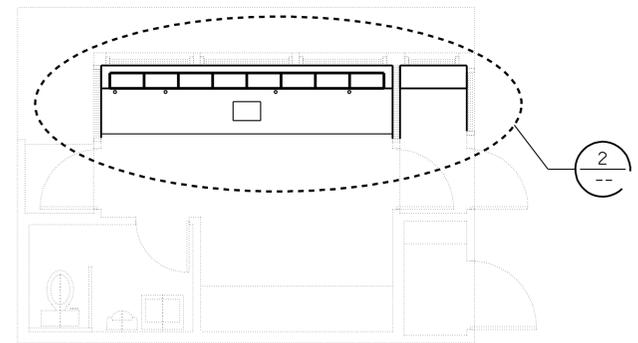
a_2_remp1n.dgn DS OSD Imperial Rev. 11/98 07-DEC-2011 13:17	DESIGN	BY Q. WONG	CHECKED 	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	SANTA NELLA WEIGH STATION UPGRADE		SHEET A-2
	DETAILS	BY S. YEH	CHECKED 			POST MILE	REMOVAL PLANS		
	QUANTITIES	BY	CHECKED F. IGNACIO			R23.5	SOUTHBOUND SCALE HOUSE		
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE	3598 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
								07-16-08 09-30-08 07-15-09 05-12-10	X X

07-DEC-2011 13:17

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	32	76
 LICENSED ARCHITECT			5-12-10 DATE		
12-5-11 PLANS APPROVAL DATE					
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GENERAL NOTES:

THE CONTRACTOR MUST VERIFY SIZES OF ALL ELECTRICAL EQUIPMENT & CONTROL PANELS BEFORE FRAMING FOR A TIGHT FIT OF EQUIPMENT.



1 MODIFIED SCALE DESK FLOOR PLAN
SCALE 1/4" = 1'-0"

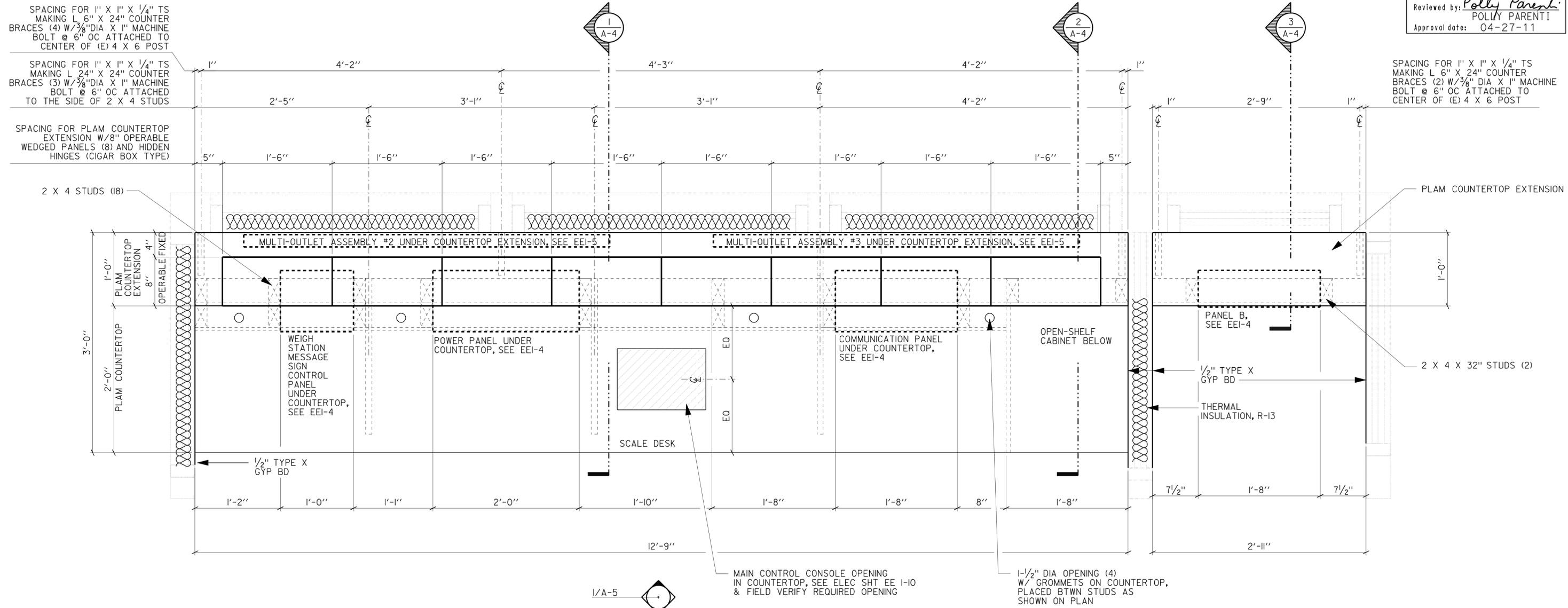


SPACING FOR 1" X 1" X 1/4" TS MAKING L 6" X 24" COUNTER BRACES (4) W/ 3/8" DIA X 1" MACHINE BOLT @ 6" OC ATTACHED TO CENTER OF (E) 4 X 6 POST

SPACING FOR 1" X 1" X 1/4" TS MAKING L 24" X 24" COUNTER BRACES (3) W/ 3/8" DIA X 1" MACHINE BOLT @ 6" OC ATTACHED TO THE SIDE OF 2 X 4 STUDS

SPACING FOR PLAM COUNTERTOP EXTENSION W/ 8" OPERABLE WEDGED PANELS (8) AND HIDDEN HINGES (CIGAR BOX TYPE)

SPACING FOR 1" X 1" X 1/4" TS MAKING L 6" X 24" COUNTER BRACES (2) W/ 3/8" DIA X 1" MACHINE BOLT @ 6" OC ATTACHED TO CENTER OF (E) 4 X 6 POST



CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 04-27-11

2 MODIFIED SCALE DESK ENLARGED FLOOR PLAN
SCALE 1-1/2" = 1'-0"



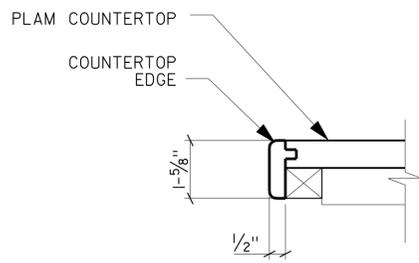
a_3_pln.dgn DS OSD Imperial Rev. 11/98 07-DEC-2011 13:17	DESIGN BY Q. WONG	CHECKED <i>Q. Wong</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 39W0002R/L	SANTA NELLA WEIGH STATION UPGRADE FLOOR PLANS	SHEET OF A-3
	DETAILS BY S. YEH	CHECKED <i>S. Yeh</i>		UNIT PROJECT NUMBER & PHASE 3598 10000002331	POST MILE R23.5		REVISION DATES (PRELIMINARY STAGE ONLY) 07-16-08 09-30-08 07-15-09 05-12-10
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			DISREGARD PRINTS BEARING EARLIER REVISION DATES		07-16-08 09-30-08 07-15-09 05-12-10		

07-DEC-2011 13:17

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	33	76
 LICENSED ARCHITECT			5-12-10	DATE	
			12-5-11 PLANS APPROVAL DATE		
<i>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.</i>					

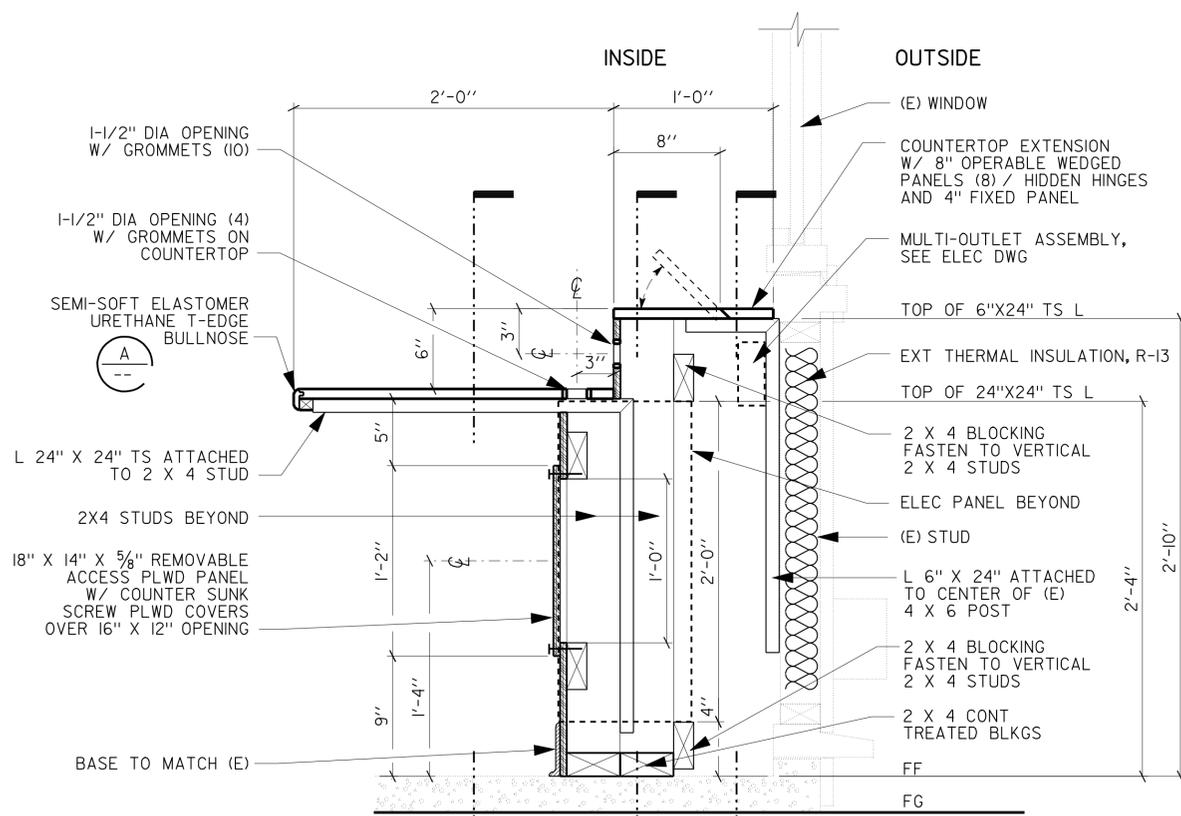
GENERAL NOTES:

THE CONTRACTOR MUST VERIFY SIZES OF ALL ELECTRICAL EQUIPMENT & CONTROL PANELS BEFORE FRAMING FOR A TIGHT FIT OF EQUIPMENT.

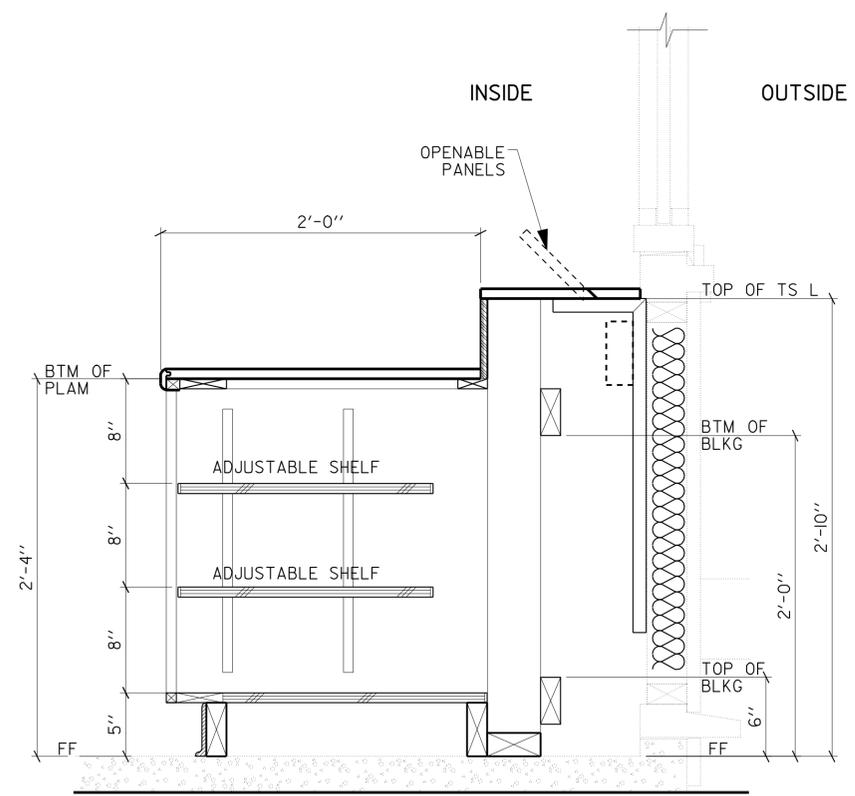


A COUNTERTOP EDGE
NOT TO SCALE

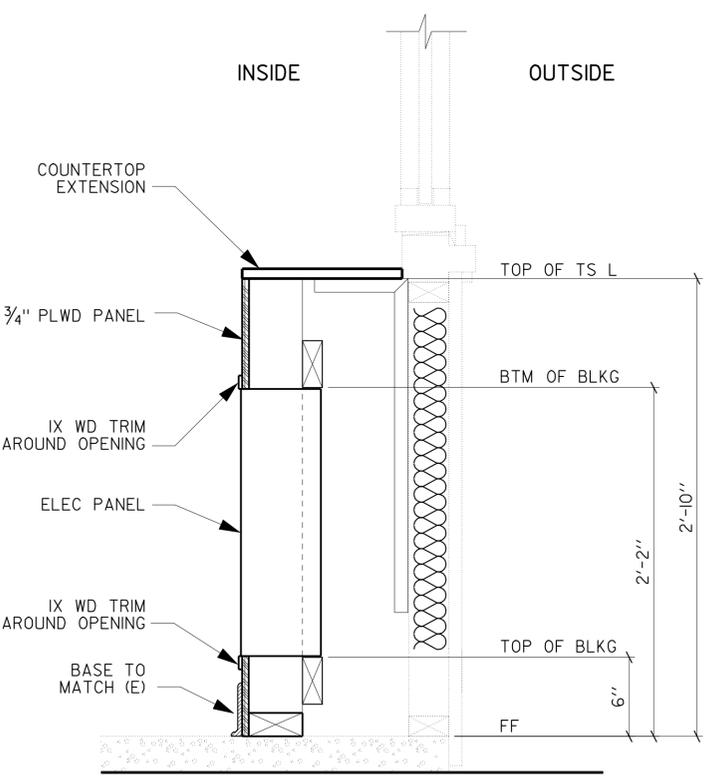
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 POLLY PARENTI
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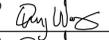
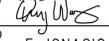
1 SECTION
SCALE 1-3/4" = 1'-0"



2 CABINET SECTION
SCALE 1-3/4" = 1'-0"
SEE SECTION 1 FOR ADDITIONAL INFORMATION



3 SECTION
SCALE 1-3/4" = 1'-0"
SEE SECTION 1 FOR ADDITIONAL INFORMATION

a_4_sections.dgn DS OSD Imperial Rev. 11/98 07-DEC-2011 13:17	DESIGN BY Q. WONG	CHECKED 	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 39W0002R/L	SANTA NELLA WEIGH STATION UPGRADE	SHEET OF A-4
	DETAILS BY S. YEH	CHECKED 		POST MILE R23.5	SOUTHBOUND SCALE HOUSE		SECTIONS AND DETAIL
	QUANTITIES BY	CHECKED F. IGNACIO	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3598 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X

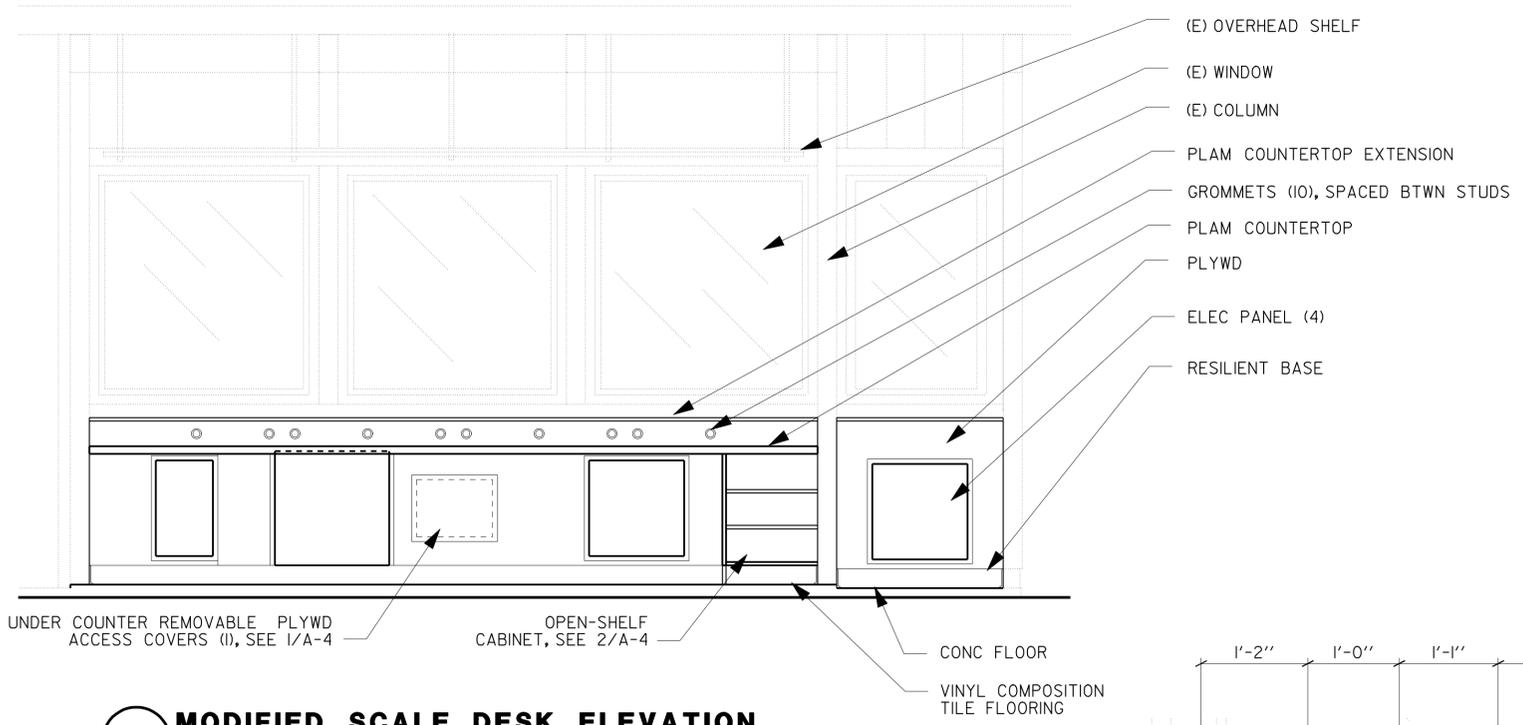
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	34	76

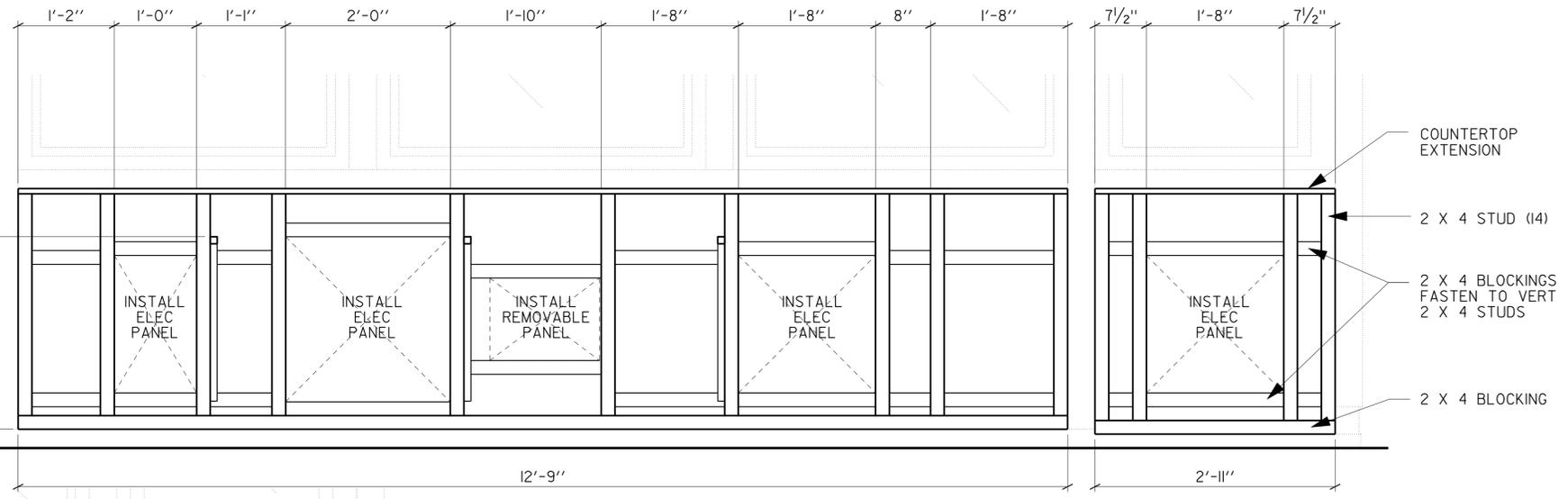
5-12-10 DATE
 12-5-11 PLANS APPROVAL DATE
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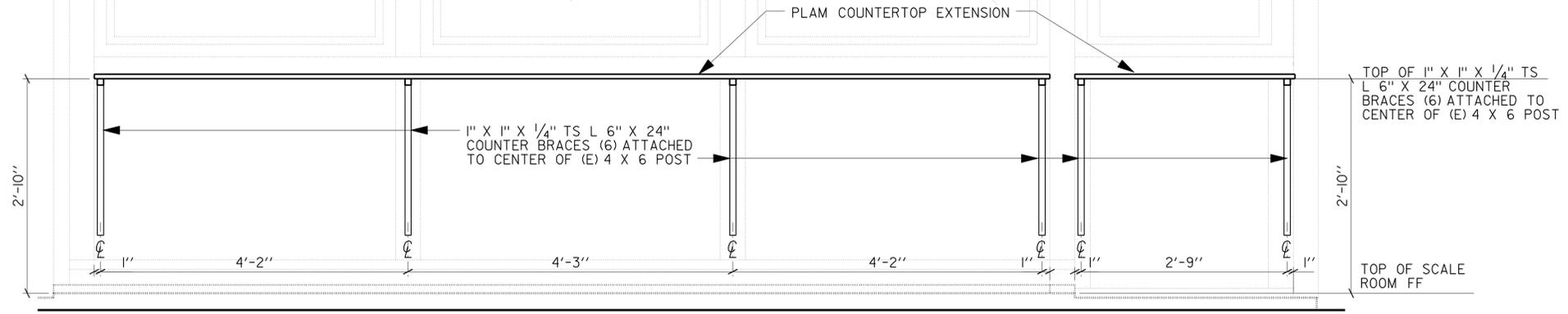
GENERAL NOTES:
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1 MODIFIED SCALE DESK ELEVATION
 SCALE 3/8" = 1'-0"



2 SCALE DESK LONGITUDE SECTION
 SCALE 1" = 1'-0"



3 SCALE DESK LONGITUDE SECTION
 SCALE 1" = 1'-0"

a_5_elevations.dgn DS OSD Imperial Rev. 11/98 07-DEC-2011 13:17	DESIGN BY Q. WONG	CHECKED <i>Quincy Wong</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 39W0002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET OF
	DETAILS BY S. YEH	CHECKED <i>Quincy Wong</i>		UNIT PROJECT NUMBER & PHASE 3598 10000002331	POST MILE R23.5	ELEVATION AND LONGITUDE SECTIONS		A-5
	QUANTITIES BY	CHECKED F. IGNACIO	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 07-16-08 09-30-08 07-15-09 05-12-10			SHEET OF X X

07-DEC-2011 13:17

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	35	76

5-12-10
 DATE
 12-5-11
 PLANS APPROVAL DATE
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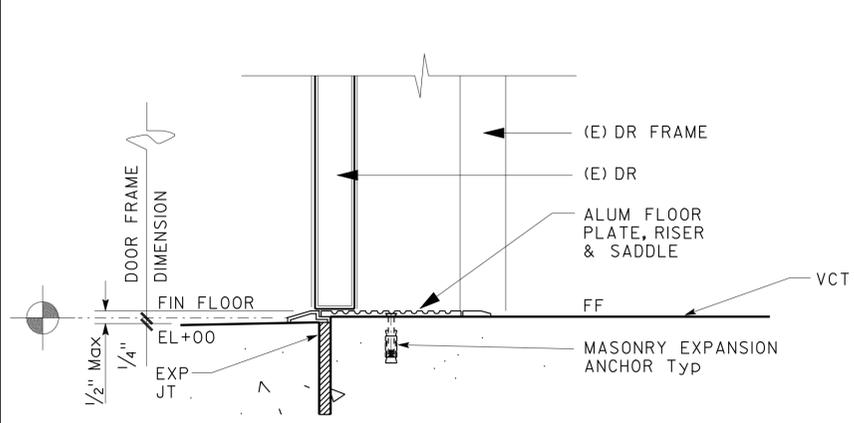


COLOR KEY				NOTES
ITEM	FIN	COLOR	MAUFACTURER	REMARK
BUILDING AND SITE ITEMS				
SCALE DESK	2	MARINE BLUE (914), MATTE FINISH	FORMICA	NOTE 5
COUNTER EXTENSION	2	MARINE BLUE (914), MATTE FINISH	FORMICA	NOTE 5
UNDERDESK CASEWORK	5	MATCH (E) PLYWOOD	--	NOTE 3
OPEN-SHELF CABINET	-	BIRCH, LIGHT STAIN	--	NOTE 3
POLYURETHANE COUNTERTOP EDGE	2	GRAPHITE BLUE 5-3-23T	EDGEMOLD	NOTE 4
WALL/GYP BD	5	MATCH (E)	--	NOTE 3
VCT	2	MATCH (E), OR MARINA BLUE (51820)	ARMSTRONG	NOTE 3
RESILIENT BASE	2	MATCH (E), OR TROPICAL BLUE (606)	ROPPE	NOTE 3
RESILIENT FLOOR TRANSITION	2	WINDSOR BLUE	JOHNSONITE	
CONCRETE FINISH	3	MEDIUM SANDBLAST FINISH W/ SEALER	--	

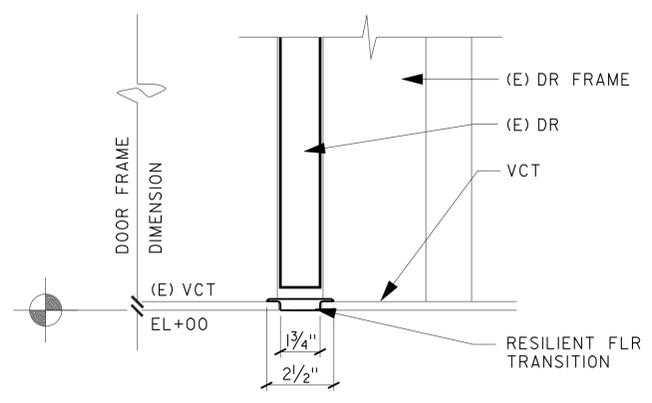
LEGEND
 FIN = FINISH CODE
FINISH CODING
 1 = NOT USED
 2 = MFR. FINISH, CLEAN
 3 = SEALER/HARDENER
 4 = SEALER
 5 = PAINT SYSTEM

- MANUFACTURER'S PRODUCTS LISTED HAVE BEEN INCLUDED AS EXAMPLES OF COLOR AND FINISH ONLY. MATCHING PRODUCTS BY OTHER MFR MAY BE SUBMITTED FOR APPROVAL.
- SEE THE SPECIAL PROVISIONS FOR THE APPROPRIATE COATING SYSTEM FOR EACH MATERIAL TO BE COATED.
- SUBMIT MATERIAL AND COLOR ALTERNATES TO FIELD ENGINEER FOR APPROVAL
- STYLE TO BE T-EDGE RTI5
- PLAM ALL EXPOSED EDGES

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 Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 04-27-11



1 EXT DOOR THRESHOLD
 SCALE 3" = 1'-0"



2 RESILIENT FLOOR TRANSITION
 SCALE 3" = 1'-0"

a_6_sched.dgn DS OSD Imperial Rev. 11/98 07-DEC-2011 13:17	DESIGN BY Q. WONG	CHECKED <u>Quincy Wong</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 39W0002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET OF A-6
	DETAILS BY S. YEH	CHECKED <u>Quincy Wong</u>			POST MILE R23.5	COLOR KEY & DETAILS		
	QUANTITIES BY	CHECKED F. IGNACIO	UNIT PROJECT NUMBER & PHASE 3598 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF X X

07-DEC-2011 13:17

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	36	76

C. N. Bapat
11-29-10
REGISTERED CIVIL ENGINEER DATE



12-5-11
PLANS APPROVAL DATE
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ABBREVIATIONS

AAD	Adhesive Anchorage Device	HD	Holdown
AB	Anchor Bolt	Hex	Hexagon
AC	Asphalt Concrete	Horiz	Horizontal
Alt	Alternate	HSB	High Strength Bolt
APA	American Plywood Association	HSS	Hollow Structural Section
APC	Alternative Pipe Culvert	Jt	Joint
Bldg	Building	LOL	Layout Line
Blkg	Blocking	LVL	Laminated Veneer Lumber
BN	Boundary Nailing	m	Meter
Btm	Bottom	Max	Maximum
CB	Carriage Bolt	MEA	Mechanical Expansion Anchor
CIDH	Cast In Drilled Hole	Mech	Mechanical
CJ	Control Joint	Mfr	Manufacturer
Clr	Clear	mm	Millimeter
CMU	Concrete Masonry Unit	Min	Minimum
Conc	Concrete	MIW	Malleable Iron Washer
Const	Construction	OC	On Center
Cont	Continuous	OG	Original Grade
CP	Complete Penetration Weld	OH	Opposite Hand
Dbl	Double	Opt	Optional
DF	Douglas Fir	P	Pitch
Dia	Diameter	PDF	Powder Driven Fastener
DIP	Ductile Iron Pipe	Plwd	Plywood
DN	Diameter Nominal	PT	Pressure Treated
do	Diitto	PW	Puddle Weld
(E)	Existing	PWB	Prefabricated Wood I Beam
Ea	Each	RCP	Reinforced Concrete Pipe
EL	Elevation	Relnf	Reinforced, Reinforcing
Elec	Electrical	Req'd	Required
Embed	Embedment	SDSTS	Self Drill, Self Tap Screw
EN	Edge Nail	Sim	Similar
Eq	Equal	SPS	Structural Plywood Sheathing
Exp	Expansion	Sq	Square
FDGM	Free Draining Granular Material	Stagg	Staggered
FG	Finish Grade	Std	Standard
FL	Flow Line	SW	Stud Weld
Fir	Floor	Sym	Symmetrical
FN	Face (Field) Nail	T&G	Tongue-and-Groove
FOC	Face of Concrete	TN	Toe Nail
FOM	Face of Masonry	TS	Tube Steel
FOS	Face of Stud	Typ	Typical
Ftg	Footing	UON	Unless Otherwise Noted
Ga	Gage	Vert	Vertical
Galv	Galvanized		
GLM	Glue Laminated Member		
Gyp Bd	Gypsum Board		

SYMBOLS

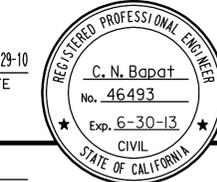
	Blocking in Section or Elevation		CMU Wall on Plan Views
	Continuous Member in Section		Dropped Slab on Plan Views
	End of Member		Reinforced Concrete
	Bearing Wall		Sand
	Shear Wall		Structural Backfill
	Length Shearwall Schedule Symbol Reference		Structural Excavation
	Glue Laminated Member Section		Original Ground
	North Arrow		Limits of Structural Backfill (shown on plan view)
	Partial Section Cut		Free Draining Granular Material
	Full Section Cut		Bottom of Footing
	Revision Callout		Elevation or Working Point
	Grid Line Indicator		Existing Features
	Center Line		Holdown, Typ (Manufacturers are those noted in the order shown.)
	Station Line		Frame Connector (Manufacturers are those noted in the order shown.)
	Steel Plate		Detail Number or Note Number Additional Reference (if required) Sheet Number
	Diameter		
	Square		

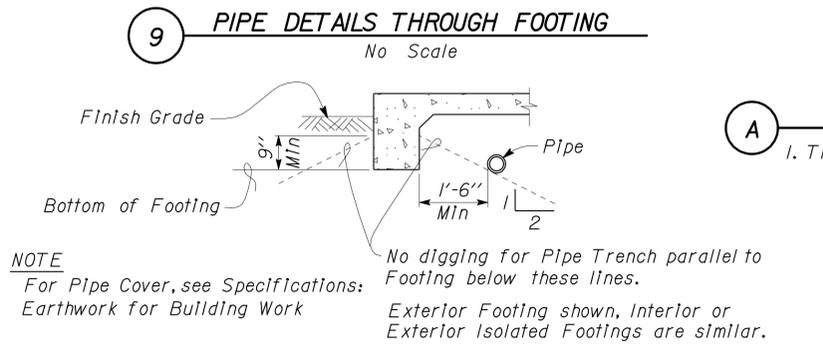
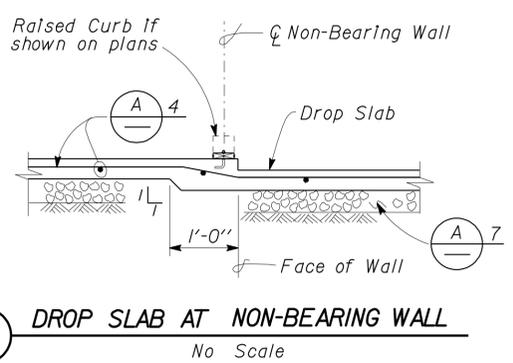
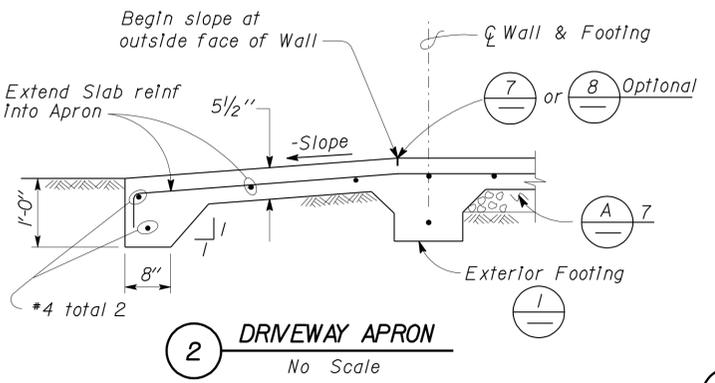
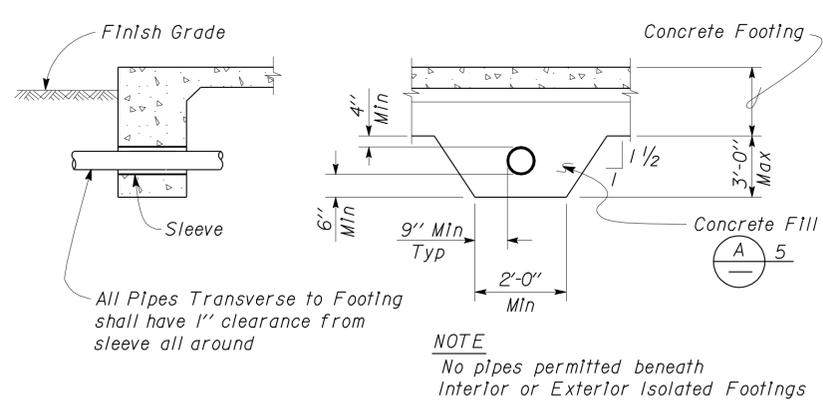
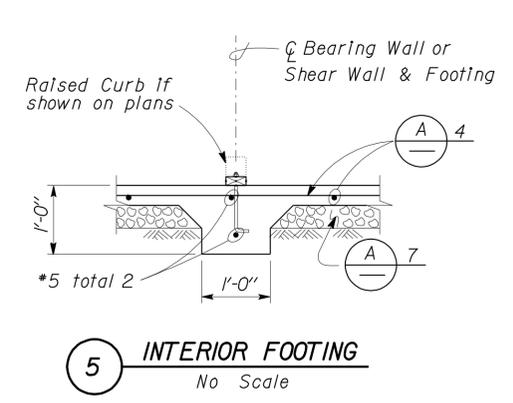
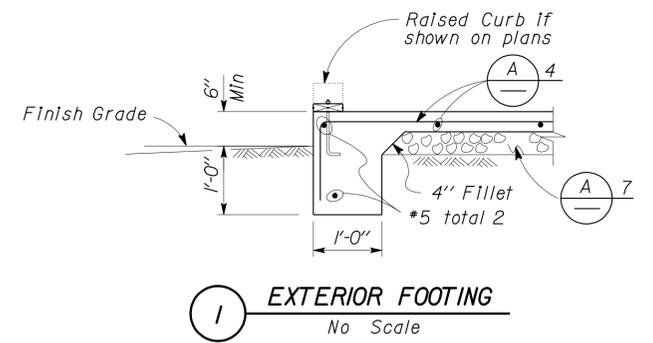
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-0	DESIGN BY <i>Sean Seibel</i>	CHECKED BY <i>George E. Rowe</i>	APPROVED BY <i>R.E. Travis</i>
DRAWING DATE 1-04	DETAILS BY <i>Sean Seibel</i>	CHECKED BY <i>George E. Rowe</i>	DESIGN SUPERVISOR
	SUBMITTED BY <i>Sean Seibel</i>	DESIGN ENGINEER	

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE	SHEET ST-1
DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE 23.5	LEGEND	

UNIT PROJECT NUMBER & PHASE	3581 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	1-16-04	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
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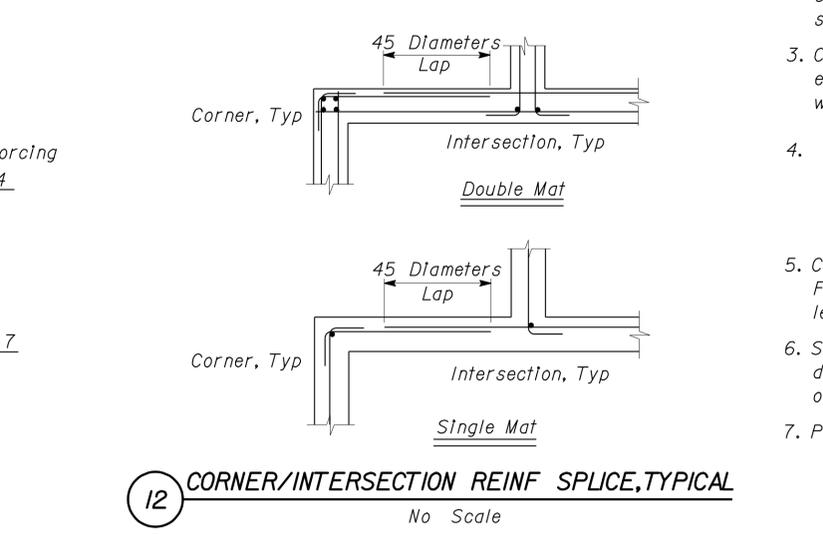
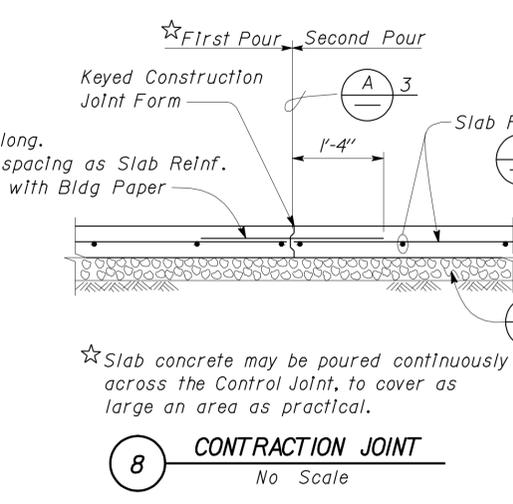
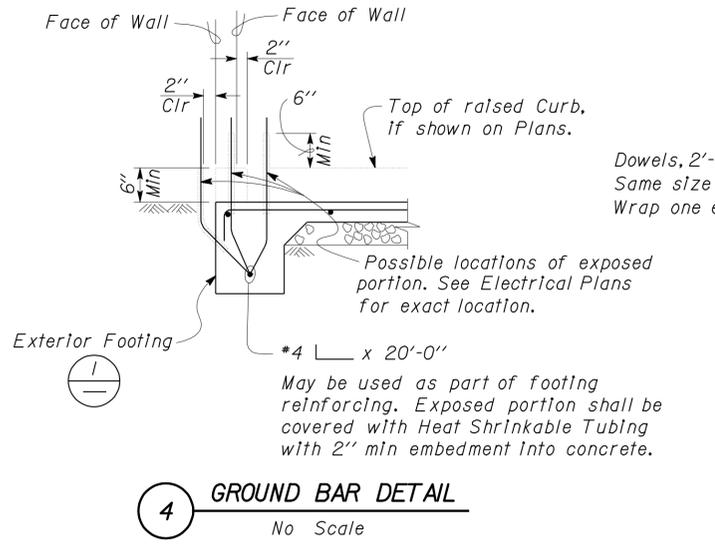
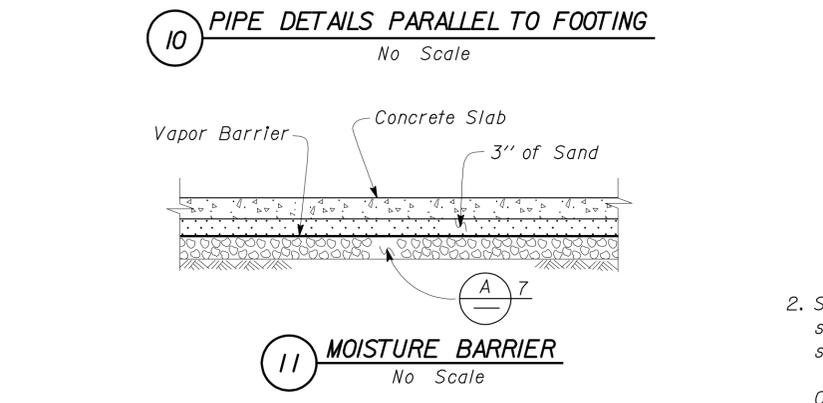
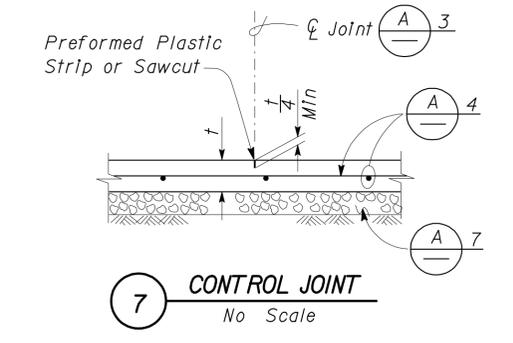
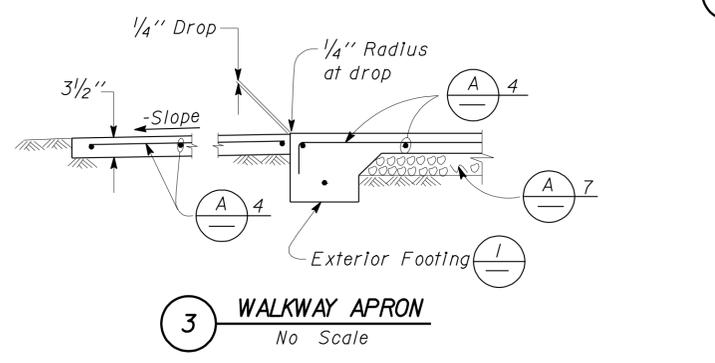
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	37	76
 REGISTERED CIVIL ENGINEER			11-29-10 DATE		
12-5-11 PLANS APPROVAL DATE					
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A CONCRETE NOTES:

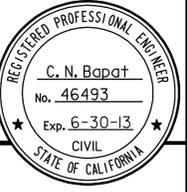
- The following minimum concrete cover shall be provided for reinforcement.

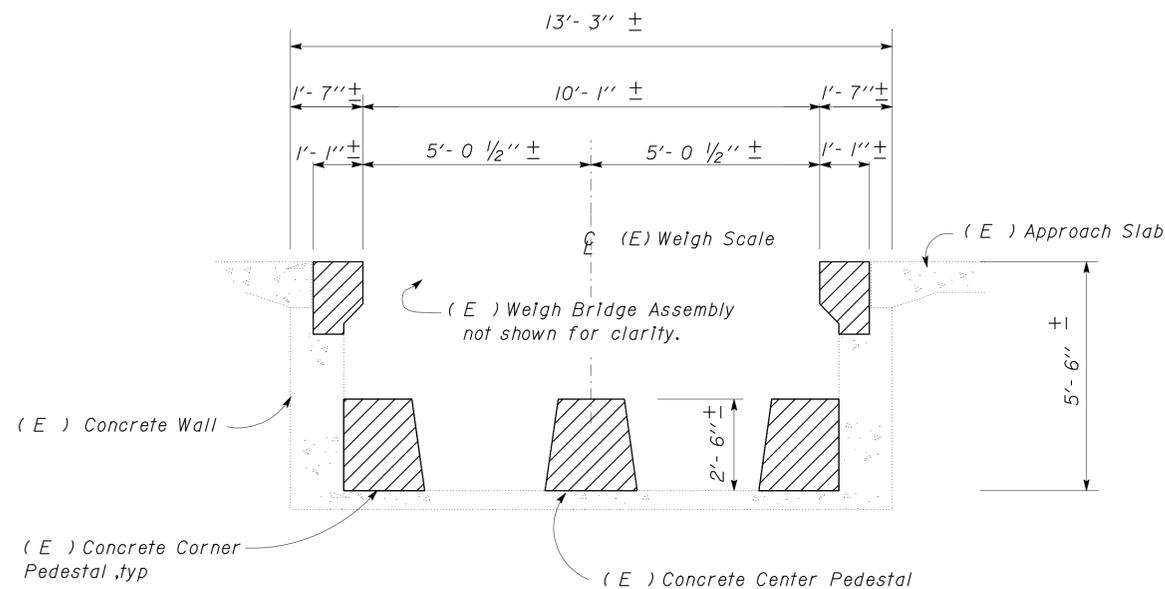
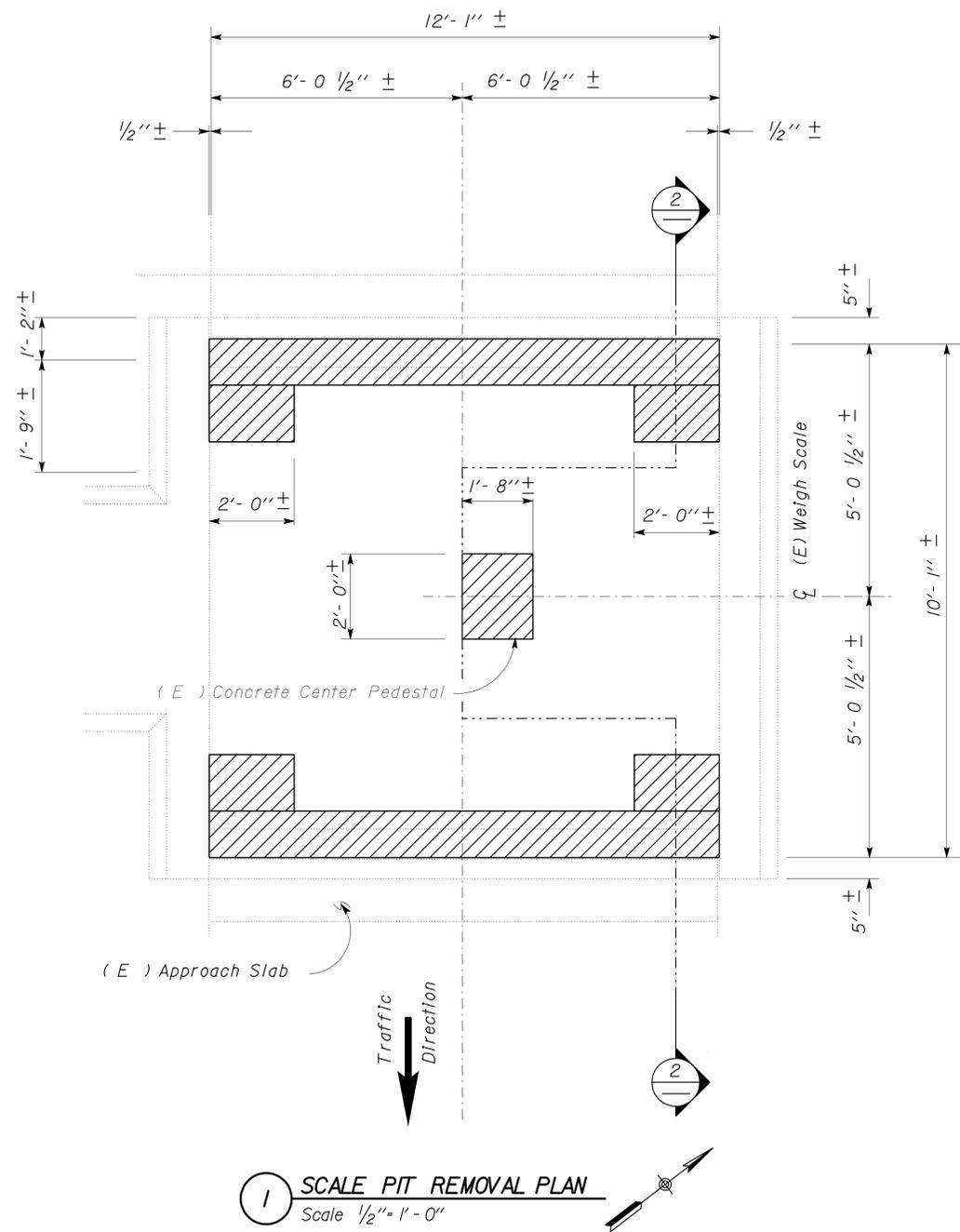
	Minimum Cover
a. Concrete cast against and permanently exposed to earth	3"
b. Concrete exposed to earth or weather but cast in forms:	
*6 thru *18 bars	2"
*5 bar and smaller, W31 or D31 Wire, and smaller	1 1/2"
c. Concrete not exposed to weather or in contact with ground:	
Slabs, Walls and Joists:	
*14 and *18 Bar	1 1/2"
*11 Bar and smaller	3/4"
Beams and Columns:	
Primary Reinforcement, Ties, Stirrups and Spirals	1 1/2"



NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-1	DESIGN BY <i>Sean Seavel</i>	CHECKED BY <i>Steve Gaudin</i>	APPROVED BY <i>R.E. Brown</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 39W002R/L	SANTA NELLA WEIGH STATION	SHEET ST-2
DRAWING DATE 1-04	DETAILS BY <i>Peter F. von Savoy</i>	CHECKED BY <i>Steve Gaudin</i>	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE 23.5	UPGRADE	
DOES SD Imperial Rev. 9/02	TAEMWW Imperial Rev. 7/10	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE EA 051901	3581 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	CONCRETE STANDARD	SHEET OF
						REVISION DATES (PRELIMINARY STAGE ONLY)		
						11-14-05		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	38	76
 REGISTERED CIVIL ENGINEER			11-29-10 DATE		
12-5-11 PLANS APPROVAL DATE					
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2 SCALE PIT REMOVAL SECTION
 Scale 3/4" = 1'-0"

NOTE:
 Mechanical Scale: Remove existing scale platform, main beams, transfer beams, and other weighing system components as required.

A SCALE PIT DESIGN NOTES:

- Design: Bridge Design Specifications 1996 AASHTO with Interims and revisions by Caltrans.
 - Loads:
 - Maximum Live Load: 60 Kips Tandem Axle with 8 tires per axle
 - Average Daily Truck Traffic: 9044
 - Reinforced Concrete: (Allowable Stress Design)
 - $f'_c = 3 \text{ Ksi}$
 - $f_y = 60 \text{ Ksi}$
 - Structural Steel: (Allowable Stress Design)
 - $f_y = 50 \text{ Ksi}$
- Foundation :
 (Dead Load plus Live Load allowable soil pressure) : 1000 PSF

B DETAIL NOTES:

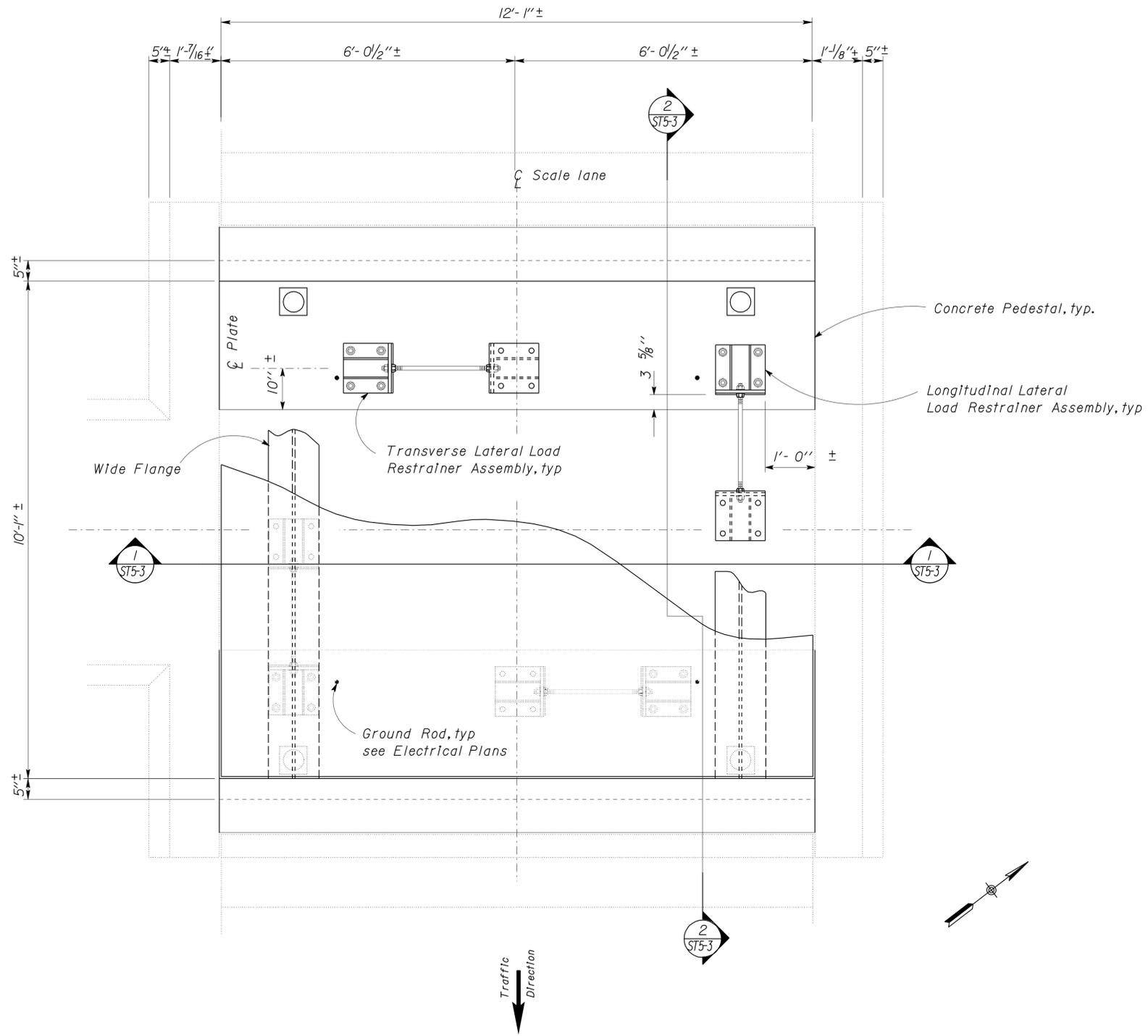
- The Weigh Bridge Assembly Reinforced Concrete Deck shall be in full bearing with the wide flange beams and connected to the wide flange beams with headed stud anchors.
- Corner Pedestal dimensions shown are minimum. Pedestals may be increased in size, per the Engineers approval, to accommodate load cells and restrainer assemblies. Pedestals shall not inhibit existing access into the scale pit nor existing floor drainage.
- Lateral Load Restrainer Assembly Bracket dimensions shown are minimum. Bracket locations and dimensions may be adjusted, per the Engineers approval, to accommodate the particular load cells supplied.
- All metal to metal bolted connections shall utilize A325 High Strength Bolts with oversize holes, unless otherwise shown.
- All miscellaneous metal shall be hot-dip galvanized after fabrication.
- Refer to Electrical Sheets EEI-1 and EEI-2 for location of Scale Pit.

NOTE
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DOES SD Imperial Rev. 9/02	 DESIGN ENGINEER	DESIGN	BY Chandra Bapat	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	SANTA NELLA WEIGH STATION UPGRADE		SHEET OF
		DETAILS	BY Aleksey Serin	CHECKED Chandra Bapat			39W0002R/L	SOUTHBOUND EXISTING SCALE PIT		
QUANTITIES	BY	CHECKED	R23.5	POST MILE			REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3						UNIT PROJECT NUMBER & PHASE: 3581 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES: 06-17-08 01-13-10	EA 051901		C:\exped1\fe\st5_01.dgn

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	39	76
<i>Bapat</i> REGISTERED CIVIL ENGINEER			11-29-10 DATE		
12-5-11 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.					



- A NOTES**
- STRUCTURAL SUPPORT AND LATERAL RESTRAINER SYSTEM FOR SCALE ASSEMBLY SHALL BE AS PER MANUFACTURERS RECOMMENDATIONS. WORKING DRAWING AND CALCULATIONS SHALL BE SUBMITTED FOR ENGINEERS APPROVAL.
 - WEIGHT BRIDGE STRUCTURAL MEMBERS SHALL BE PAINTED OR GALVANIZED.

1 RESTRAINER ASSEMBLY PLAN
 Scale 3/4" = 1' - 0"

NOTE
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

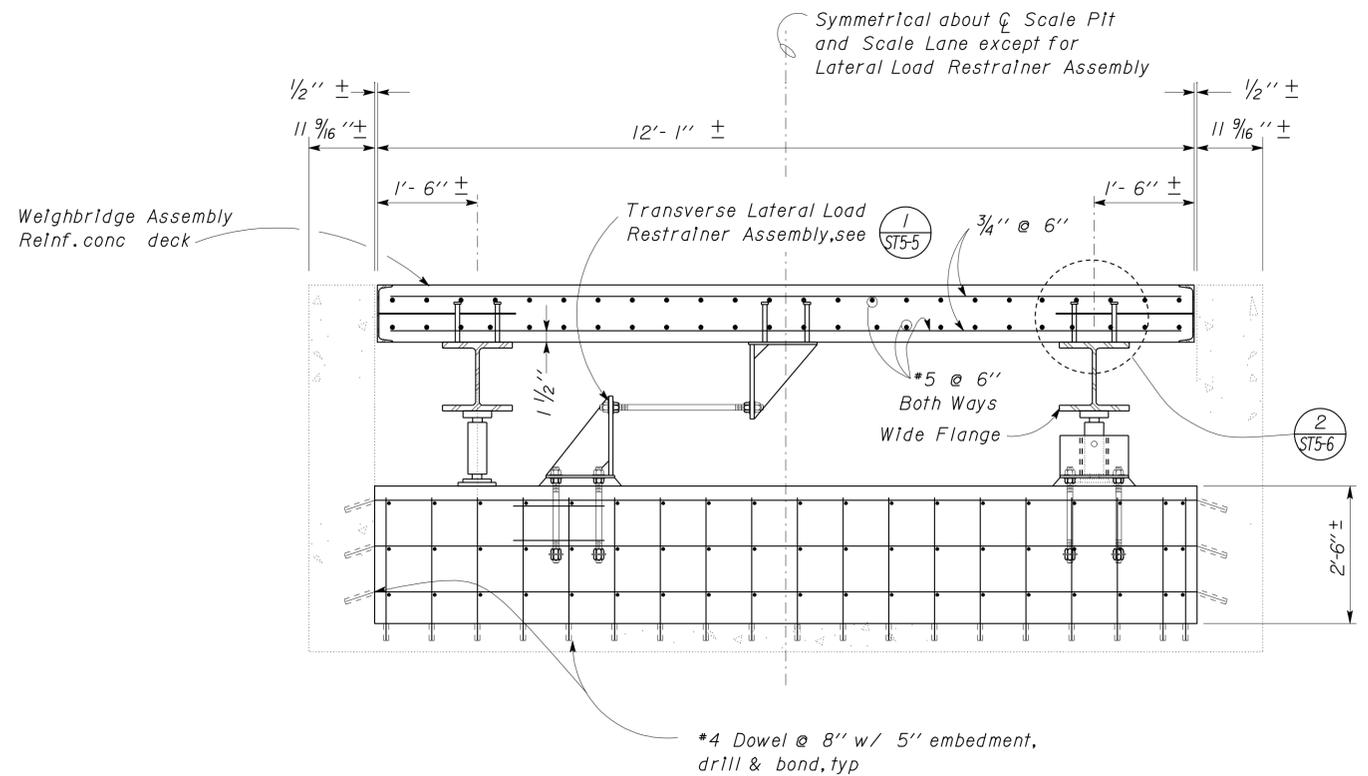
DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	SANTA NELLA WEIGH STATION UPGRADE		SHEET ST5-2
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	POST MILE	SOUTHBOUND	
QUANTITIES	BY		CHECKED		UNIT	3581	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	01-13-10	
DOES SD Imperial Rev. 9/02					PROJECT NUMBER & PHASE		10000002331	EA 051901		C:\expedit\fe\st5_02.dgn

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	40	76

<i>Bapat</i> REGISTERED CIVIL ENGINEER		11-29-10 DATE
PLANS APPROVAL DATE 12-5-11		
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.		

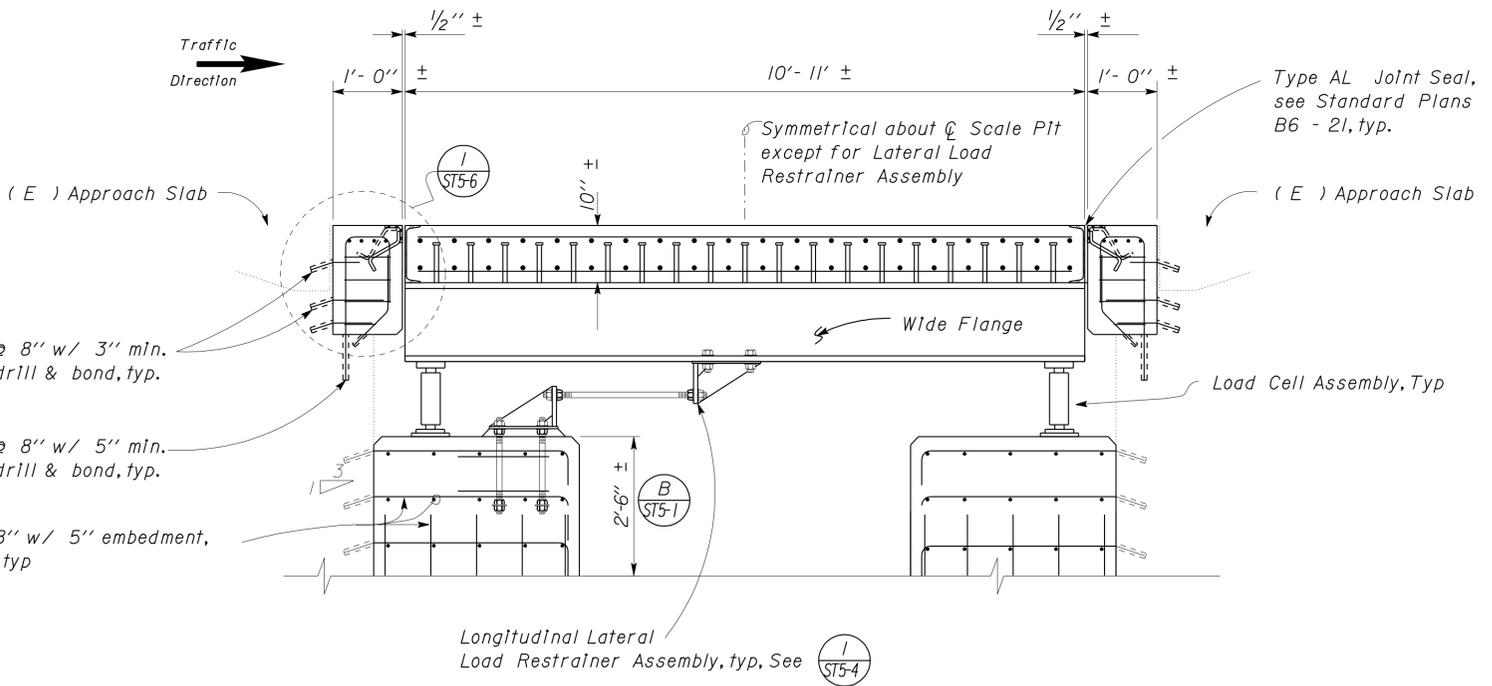
REGISTERED PROFESSIONAL ENGINEER
 C. N. Bapat
 No. 46493
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA



1 SCALE PIT SECTION
 Scale 3/4" = 1'-0"
 Note: Longitudinal Lateral Restrainer Assembly not shown

A NOTES

STRUCTURAL SUPPORT AND LATERAL RESTRAINER SYSTEM FOR SCALE ASSEMBLY SHALL BE AS PER MANUFACTURERS RECOMMENDATIONS. WORKING DRAWING AND CALCULATIONS SHALL BE SUBMITTED FOR ENGINEERS APPROVAL.



2 SCALE PIT SECTION
 Scale 3/4" = 1'-0"

NOTE
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	SANTA NELLA WEIGH STATION UPGRADE		SHEET ST5-3		
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	39W002R/L	SOUTHBOUND SCALE PIT CROSS SECTION AND DEATILS			
QUANTITIES	BY		CHECKED		UNIT	3581	POST MILE	R23.5	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	01-13-10		

DOES SD Imperial Rev. 9/02

EA 051901

PROJECT NUMBER & PHASE 10000002331

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	41	76

Bapat
REGISTERED CIVIL ENGINEER

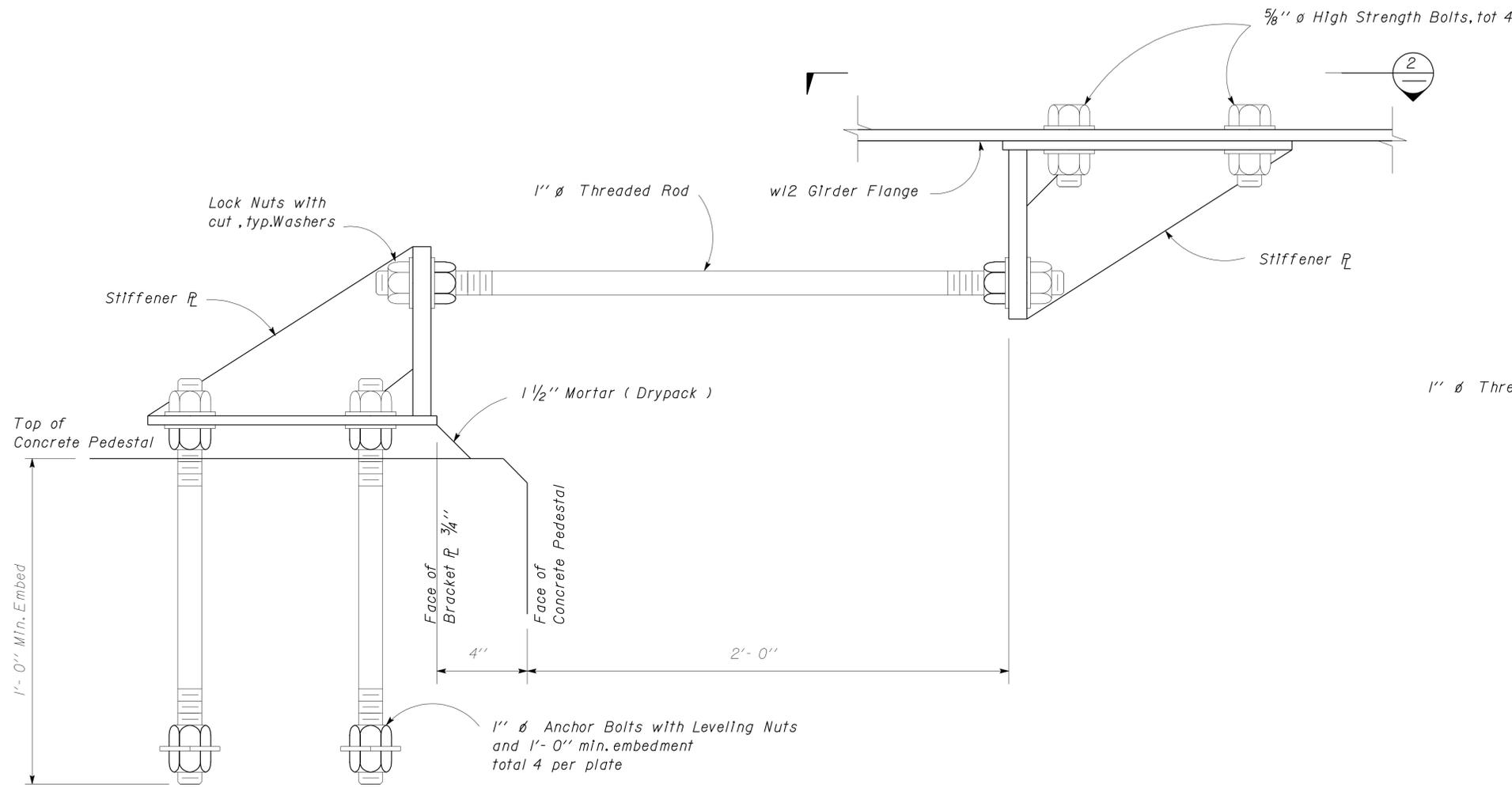
11-29-10
DATE

12-5-11
PLANS APPROVAL DATE

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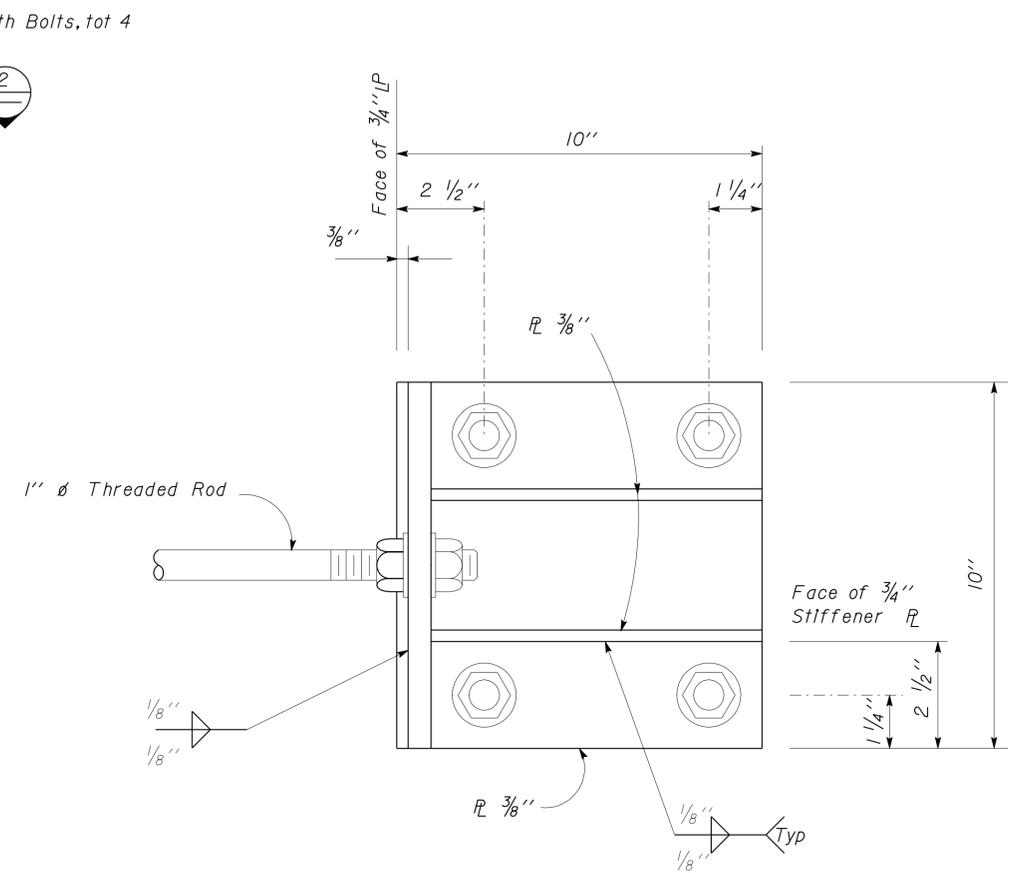
REGISTERED PROFESSIONAL ENGINEER

C. N. Bapat
No. 46493
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA



NOTE: Concrete Reinforcing not shown for clarity

1 MINIMUM RECOMMENDED LONGITUDINAL RESTRAINER ASSEMBLY
No Scale



2 TRANSVERSE BRACKET PLAN
No Scale

NOTE
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

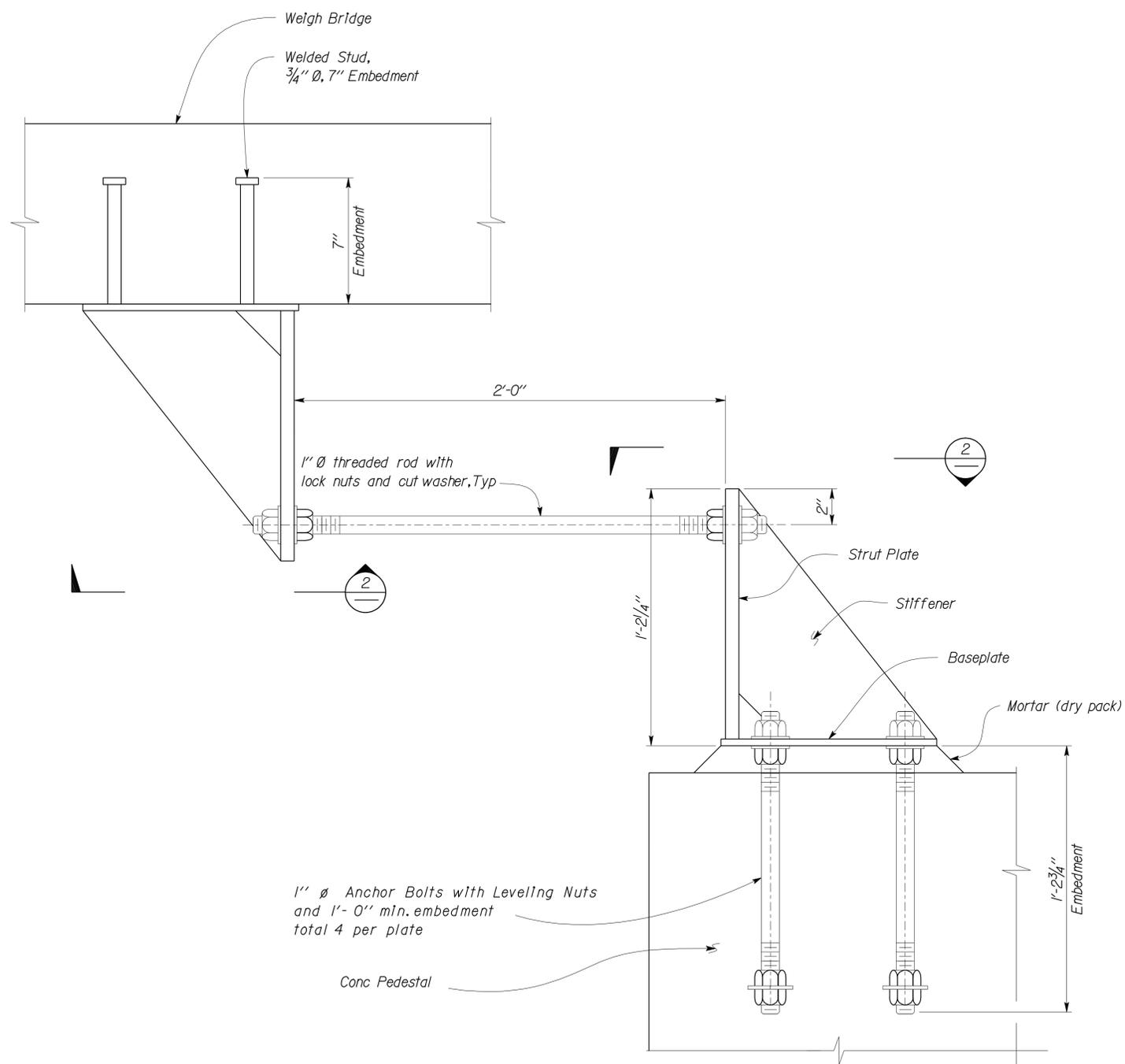
DESIGN	BY <i>Chandra Bapat</i>	CHECKED <i>Thomas Tong</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 39W0002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET ST5-4
	DETAILS	BY <i>Aleksey Serin</i>			CHECKED <i>Chandra Bapat</i>	POST MILE R23.5	SOUTHBOUND	
QUANTITIES	BY	CHECKED			REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT PROJECT NUMBER & PHASE		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
0 1 2 3			3581 10000002331		01-13-10		EA 051901	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	42	76

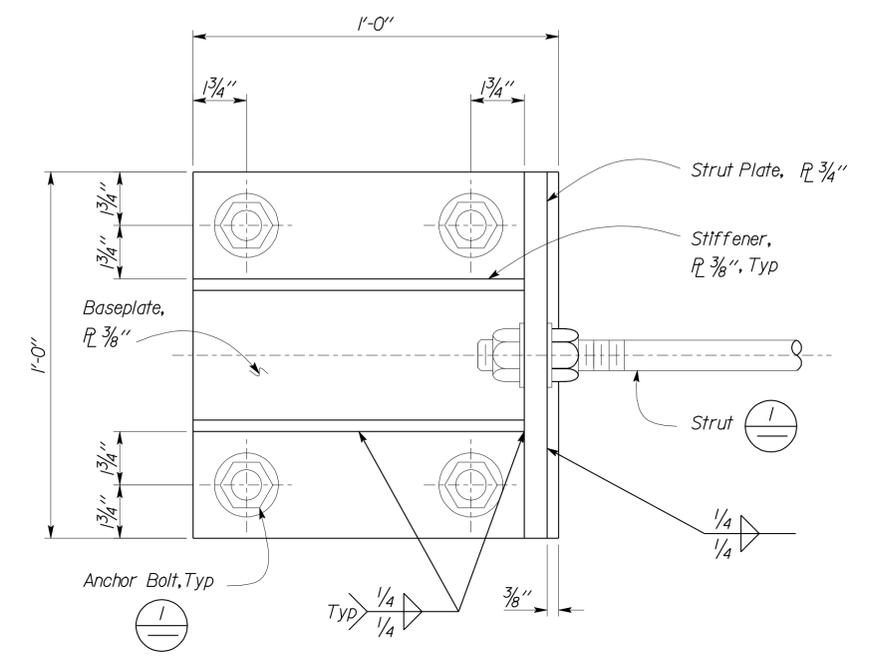
<i>Bapat</i>	11-29-10	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA
REGISTERED CIVIL ENGINEER	DATE	

12-5-11
PLANS APPROVAL DATE

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1 MINIMUM RECOMMENDED TRANSVERSE RESTRAINER ASSEMBLY AND ANCHORAGE
No Scale



2 STRUT ANCHORAGE DETAIL
No Scale

NOTE
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	SANTA NELLA WEIGH STATION UPGRADE		SHEET OF	
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	39W0002R/L	SOUTHBOUND RESTRAINER ASSEMBLY		ST5-5
QUANTITIES	BY		CHECKED				POST MILE				
							R23.5				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0	1	2	3		
UNIT PROJECT NUMBER & PHASE						EA 051901	3581 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
DOES SD Imperial Rev. 9/02										07-09-08	01-13-10

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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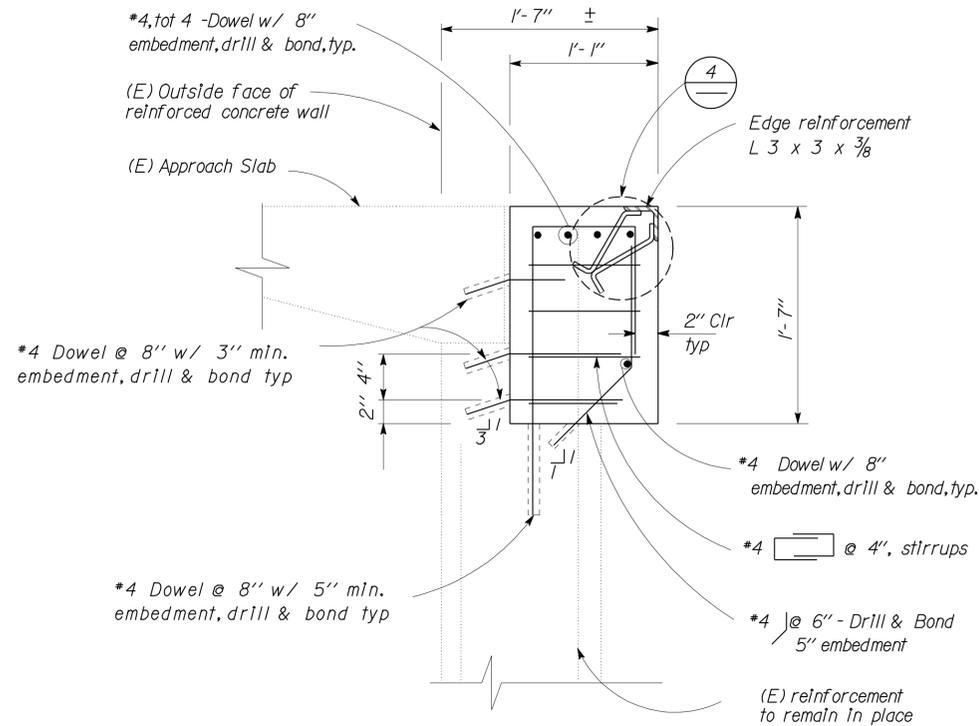
Bapat
REGISTERED CIVIL ENGINEER

11-29-10
DATE

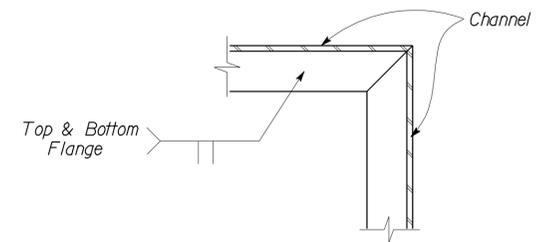
REGISTERED PROFESSIONAL ENGINEER
 C. N. Bapat
 No. 46493
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

12-5-11
PLANS APPROVAL DATE

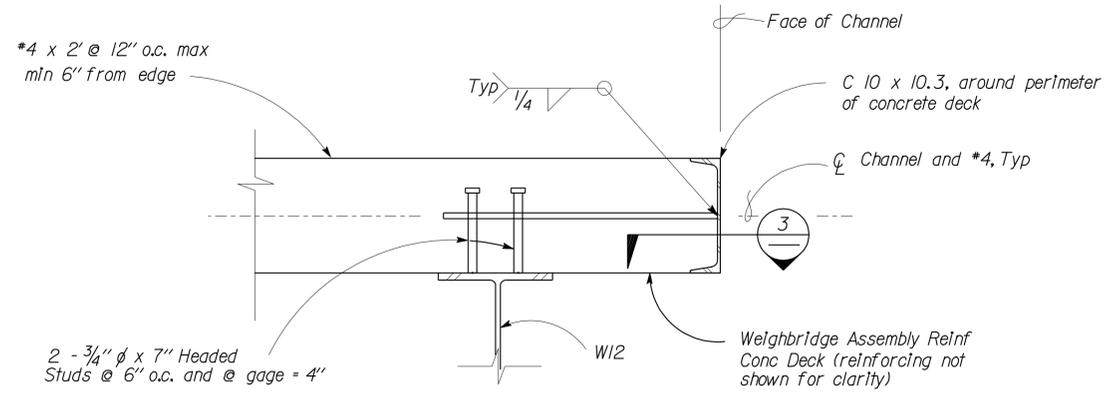
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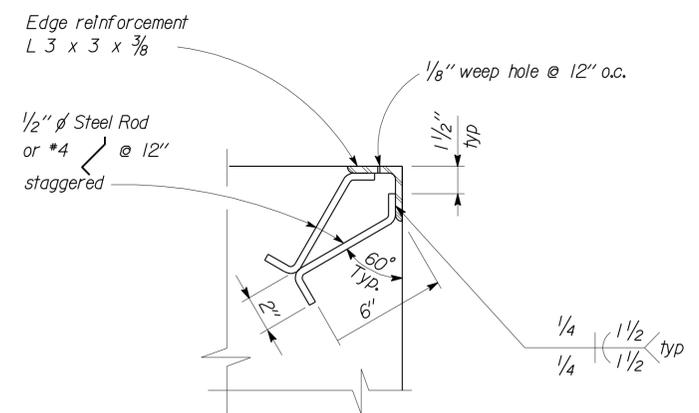
1 SCALE PIT SECTION
Scale 1" = 1'-0"



3 CHANNEL MITERED CORNER DETAIL
No Scale



2 CHANNEL EDGE ANCHORAGE DETAIL
Scale 1 1/2" = 1'-0"



Note: Concrete reinforcing not shown for clarity

4 EDGE REINFORCING ANGLE DETAIL
No Scale

NOTE
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DOES SD Imperial Rev. 9/02	DESIGN	BY Chandra Bapat	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	SANTA NELLA WEIGH STATION UPGRADE		SHEET
	DETAILS	BY Aleksey Serin	CHECKED Chandra Bapat			39W0002R/L	SOUTHBOUND MISCELLANEOUS DETAILS		ST5-6
QUANTITIES	BY	CHECKED				R23.5			
					UNIT PROJECT NUMBER & PHASE	3581 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	07-09-08 01-13-10		SHEET OF

07-DEC-2011 13:18

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GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
CEILING WALL	
	SURFACE FLUORESCENT, METAL HALIDE OR SODIUM VAPOR FIXTURE
	RECESSED FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE
	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT FIXTURE
	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 ALPHANUMERIC 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	
	BLANK OUTLET
	JUNCTION BOX
	DROP CORD
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET
	RANGE OUTLET
	CLOCK HANGER RECEPTACLE
	FAN HANGER RECEPTACLE
	FLOOR SINGLE RECEPTACLE OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET
	FLOOR SPECIAL PURPOSE OUTLET
	FLOOR RADIO OUTLET
	FLOOR TELEPHONE OUTLET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG
	MULTI-OUTLET ASSEMBLY
S	SINGLE POLE SWITCH
S ₂	DOUBLE POLE SWITCH
S ₃	THREE WAY SWITCH
S ₄	FOUR WAY SWITCH
S _D	AUTOMATIC DOOR
S _K	KEY OPERATED SWITCH
S _P	SWITCH AND PILOT LIGHT
S _{MC}	MOMENTARY CONTACT SWITCH
S _{RC}	REMOTE CONTROL SWITCH
S _{WP}	WEATHERPROOF SWITCH
S _F	FAN SWITCH
S _L	LIGHT SWITCH
S _H	HEATER SWITCH
S _{VS}	VARIABLE SPEED MOTOR CONTROL SWITCH
S _{CHLF}	TWO SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND TIMER SWITCH FOR HEAT LAMP

SYMBOL	DESCRIPTION
S ₁	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S ₂	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
S _M	MOTION SENSOR SWITCH
S _T	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
S _{HP}	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
T _s	TIMER SWITCH
S	SWITCH AND SINGLE RECEPTACLE
S	SWITCH AND DUPLEX RECEPTACLE
	HAND DRYER NOZZLE
	HAND DRYER
	RADIO OUTLET
	TELEPHONE OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	COMBINATION BELL-BUZZER
	THERMOSTAT
	PRESSURE SWITCH
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC CELL
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	FLUSH-MOUNTED PANELBOARD AND CABINET
	SURFACE-MOUNTED PANELBOARD AND CABINET
	LIGHTING PANEL
	POWER PANEL
	COMBINATION LIGHTING AND POWER
	MOTOR CONTROLLER
	DISCONNECT SWITCH
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED IN FLOOR
	CONDUIT EXPOSED
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 1/2" UNLESS OTHERWISE NOTED.	
	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT.
	SURFACE METAL RACEWAY
	CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
	CONDUIT, RIGID STEEL, UNDERGROUND
	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	CONDUIT, FLEXIBLE
	CONDUIT, TURN UP
	CONDUIT, TURN DOWN
	CONDUIT SEAL, EXPLOSION-PROOF
	CONDUIT, EXPANSION JOINT
	ADAPTER, ONE TYPE CONDUIT TO ANOTHER
	POLE

SYMBOL	DESCRIPTION
	OCCUPANCY SENSOR
	HEAT DETECTOR
	SMOKE DETECTOR
	MANUAL PULL STATION
	AUDIO/VISUAL ALARM DEVICE
	GLASS BREAK DISCRIMINATOR
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
	KEYPAD FOR ALARM SYSTEM
	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	PULL BOX NO. 5 UNLESS OTHERWISE NOTED
	PULL BOX (TRAFFIC RATED)
	COMBINATION HEAT, LIGHT AND FAN UNIT
	SECTION/ELEVATION LETTER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REMODEL WORK

SYMBOL	DESCRIPTION
	EXISTING FLUORESCENT FIXTURE-TO REMAIN
	EXISTING FLUORESCENT FIXTURE-REMOVE
	EXISTING INCANDESCENT FIXTURE-TO REMAIN
	EXISTING INCANDESCENT FIXTURE-REMOVE
	EXISTING OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-REMOVE
	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
	EXISTING CONDUIT AND CONDUCTORS-REMOVE
	EXISTING SWITCH-TO REMAIN
	EXISTING SWITCH-REMOVE
	EXISTING JUNCTION BOX-TO REMAIN
	EXISTING JUNCTION BOX-REMOVE

STANDARD NOTES

	ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
	INSTALL PULL BOX IN EXISTING CONDUIT RUN.
	INSTALL CONDUIT INTO EXISTING PULL BOX.
	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS, INSTALL PULL ROPE AND PLUG.
	REMOVE FOUNDATION ABOVE GRADE AND ABANDON FOUNDATION BELOW GRADE.
	RELOCATE EQUIPMENT.
	RELOCATED EQUIPMENT.
	SPLICE NEW TO EXISTING CONDUCTORS.

STANDARD PLANS

DATED MAY, 2006

• RSP ES-1B	• ES-5B	• ES-8
• RSP ES-1C	• ES-5D	• ES-13A
• ES-3C	• RSP ES-7B	
• ES-4A	• ES-7M	
• RSP ES-5A	• ES-7N	

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

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

PROJECT NOTES

- SEPARATE GROUNDED (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
10	Mer	5	23.1/24.0	44	76

Catalino A. Enriquez 12-08-10
REGISTERED ELECTRICAL ENGINEER DATE

C.A. ENRIQUEZ
No. 16944
Exp. 6-30-13
ELEC
STATE OF CALIFORNIA

12-5-11
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.

CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 04-27-11

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
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CR	CONTROL RELAY
CS	CURRENT SENSOR
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
FR	FAILURE RESET
FS	FLOAT SWITCH
G	GROUND
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
LL	LIQUID LEVEL RELAY
LLC	LIQUID LEVEL CONTROLLER
LP	LIGHT PANEL
LS	LIGHT SWITCH
LT	LIGHT TRANSFORMER
LTO	LIGHT TRANSFORMER OVERLOAD
MB	MAIN BREAKER
MC	METALLIC CONDUIT
MCP	MOTOR CIRCUIT PROTECTOR
MCC	MOTOR CONTROL CENTER
MSB	MAIN SWITCHBOARD
MT	EMPTY CONDUIT
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NSW	NEUTRAL SWITCHING BREAKER
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PB	PUSH BUTTON
PFDR	PHASE FAILURE RELAY DISCONNECT
PEC	PHOTOELECTRIC CELL
PL	PILOT LIGHT
PS	PRESSURE SWITCH
PTS	POWER TRANSFER SWITCH
PVC	POLYVINYL CHLORIDE
RES	RESISTOR
RTB	RADIO TERMINAL BOARD
S	STARTER COIL
SD	SERVICE DISCONNECT
SFR	SEAL FAILURE RELAY
SL	SUMP LIGHT
SP	SPARE
SS	SELECTOR SWITCH
ST	STARTER
SV	SOLENOID VALVE
T	TRANSFORMER
TB	TERMINAL BLOCK
TDR	TIME DELAY RELAY
TGLS	TOGGLE SWITCH
TM	TIME METER
TOT	TOTAL
TS	TIMER SWITCH
TSW	TEST SWITCH
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
WSPMS	WEIGH STATION MESSAGE SIGN
WP	WEATHERPROOF

DESIGN BY <i>C. A. Enriquez</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. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE	SHEET
DETAILS BY <i>Ed D. Tapalla 3/10</i>	CHECKED <i>C. A. Enriquez</i>		POST MILE R23.5	LEGEND		EEO-1
QUANTITIES BY <i>C. A. Enriquez</i>	CHECKED <i>J. S. Sandhu</i>		UNIT 3596	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	PROJECT NUMBER & PHASE 10000002331	12/08/08 5/10/10 11/10/10 12/10/10	e00_01.dgn	

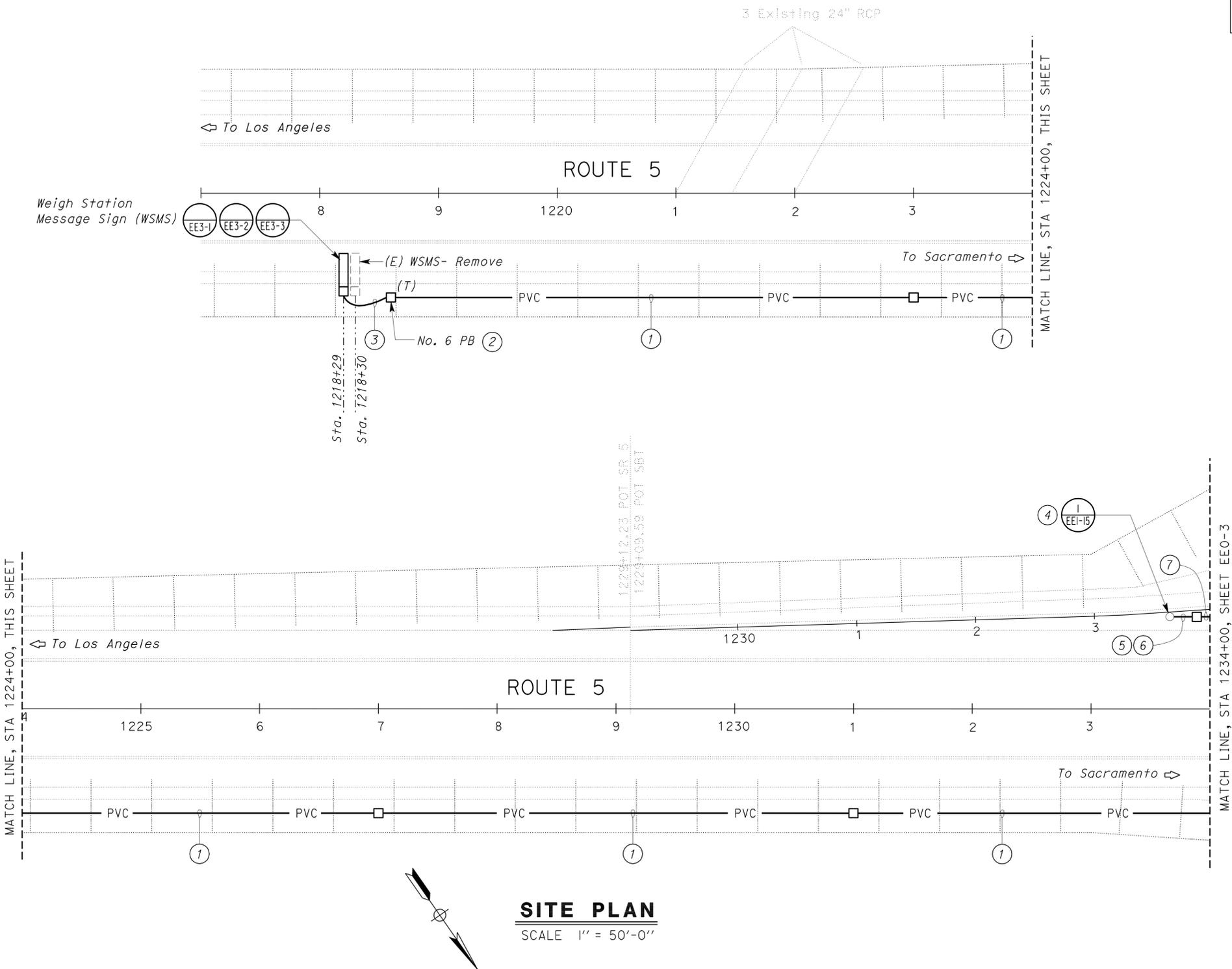
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Polly Parenti*
POLLY PARENTI
 Approval date: 04-27-11

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	45	76

<i>Catalino A. Enriquez</i> REGISTERED ELECTRICAL ENGINEER	12-08-10 DATE
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12-5-11 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.



General Notes:

- A. Existing conduits and conductors are not shown. Contractor shall field verify the exact location of existing conduits and conductors that may affect construction prior to the beginning of trenching, excavation and removal work.
- B. The cost of all work in locating existing pull boxes, underground utilities, conduit and conductor system shall be paid for in the building lump sum contract price and no additional cost will be paid.
- C. Locate new WSMS as directed by the Engineer.

Notes:

- ① 2" C, 2#6 (120 Volt power), 5#10 (WSMS control), 2#10 spare, 1#8G.
- ② Install ground rod inside the pull box. Bond ground rod to equipment grounding conductor, metal conduit and metal pull box cover bonding jumper. Pull box bonding jumper shall be braided copper strap of 3-foot minimum length. In addition, bond jumper to pull box cover by providing suitable lug and brass bolt with nut and washer.
- ③ 1/2" C, PVC coated rigid steel conduit, 2#6 (120 Volt power), 5#10 (WSMS control), 2#10 spare, 1#6G.
- ④ Replace existing exit signal pole.
- ⑤ 3/4" C, (MC), 2#10, 1#10G to height and signal panel.
- ⑥ 3/4" C, (MC), cable to PA system..
- ⑦ For conduit, conductors and cable details, see notes ⑦ and ⑧ of sheet EE1-2.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

J. S. Sandhu
 DESIGN SUPERVISOR
Gabwinder K. Sandhu
 DESIGN ENGINEER

DESIGN	BY C. A. Enriquez	CHECKED J. S. Sandhu
DETAILS	BY Ed D. Tapalla/Dall Zhou	CHECKED C. A. Enriquez
QUANTITIES	BY C. A. Enriquez	CHECKED J. S. Sandhu

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 39W002R/L
 POST MILE R23.5

SANTA NELLA WEIGH STATION UPGRADE
 SITE PLAN 1

SHEET **EE0-2** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	46	76

Catalino A. Enriquez
 REGISTERED ELECTRICAL ENGINEER
 DATE 12-08-10
 No. 16944
 Exp. 6-30-13
 ELEC
 STATE OF CALIFORNIA

12-5-11
 PLANS APPROVAL DATE

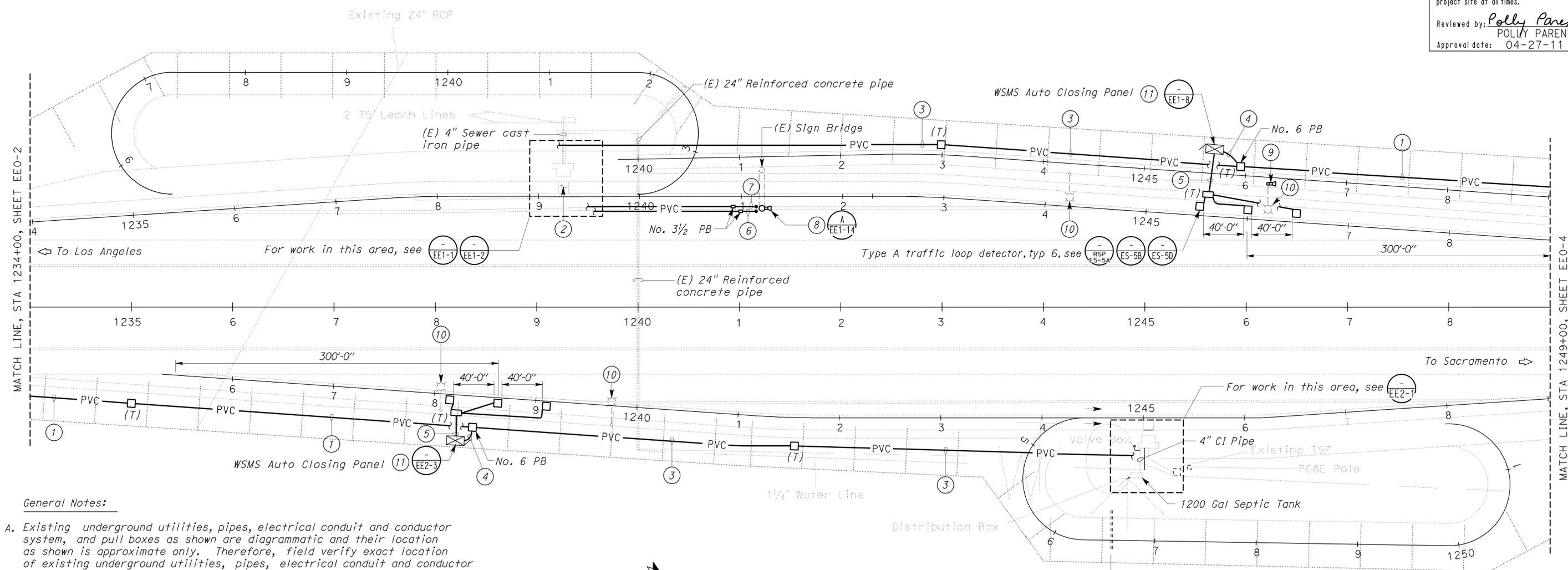
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

- Notes:**
- ① 2"C, 2#6 (WSMS 120 volt power), 5#10 (WSMS control), 2#10 spare, 1#8G.
 - ② Existing Scale pit and platform. For modifications, see Structural drawings. For Electrical works, see sheet EE1-2.
 - ③ 2"C, 2#6 (WSMS 120 volt), 2#10 (WSMS spare), 5#10 (WSMS control), 3#12 and 3#12 spare (WSMS auto closing panel- control), 1#8G.
 - ④ 1½"C, PVC, 2#8 (120 volt), 3#12 and 3#12 spare (WSMS auto closing panel- control), 1#8G.
 - ⑤ 2"C, PVC (schedule 80), loop detector lead-in cables as required.
 - ⑥ 1"C, (MC) 2#10 (CKT B5), 2#10 spare, 1#12G.
 - ⑦ 1"C, MC, CCTV cable.
 - ⑧ Mount CCTV camera at the top portion of the existing sign bridge. Mount camera at a height as directed by the Engineer.
 - ⑨ Existing CCTV camera mounted at top of existing lighting standard. Remove camera, associated devices, and its conduit and conductor system.
 - ⑩ Existing lighting standard. For works need to be done, see Electrical "E" sheets.
 - ⑪ Install Type 334 cabinet complete with concrete foundation, see sheet ES-3C.

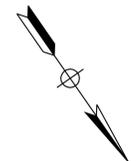
CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 04-27-11



- General Notes:**
- A. Existing underground utilities, pipes, electrical conduit and conductor system, and pull boxes as shown are diagrammatic and their location as shown is approximate only. Therefore, field verify exact location of existing underground utilities, pipes, electrical conduit and conductor system, and pull boxes that are in the way of construction, prior to the beginning of trenching, excavation and removal work.
 - B. Not all existing conduits and conductors are shown. Contractor shall field verify the exact location of other existing conduits and conductors as required prior to the beginning of trenching, excavation and removal work.
 - C. The cost of all work in locating existing underground utilities, pipes, electrical conduit and conductor system, and pull boxes shall be paid for in the building lump sum contract price and no additional cost will be paid.



SITE PLAN
 SCALE 1" = 50'-0"

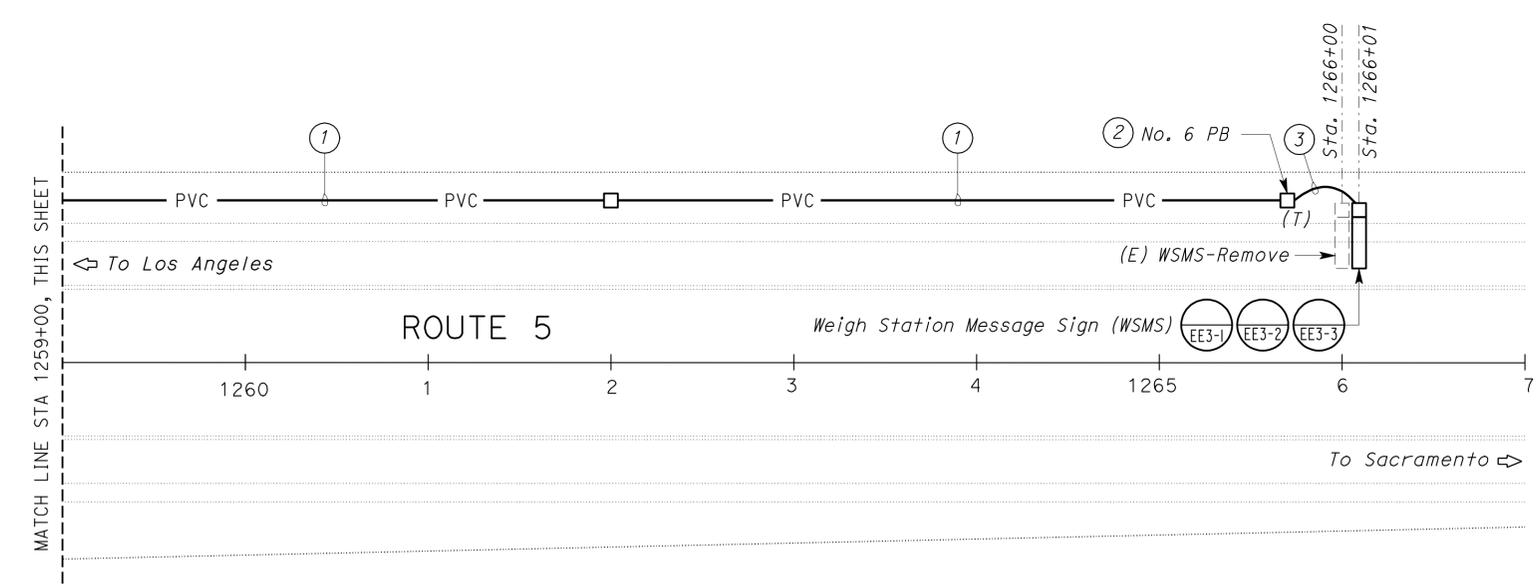
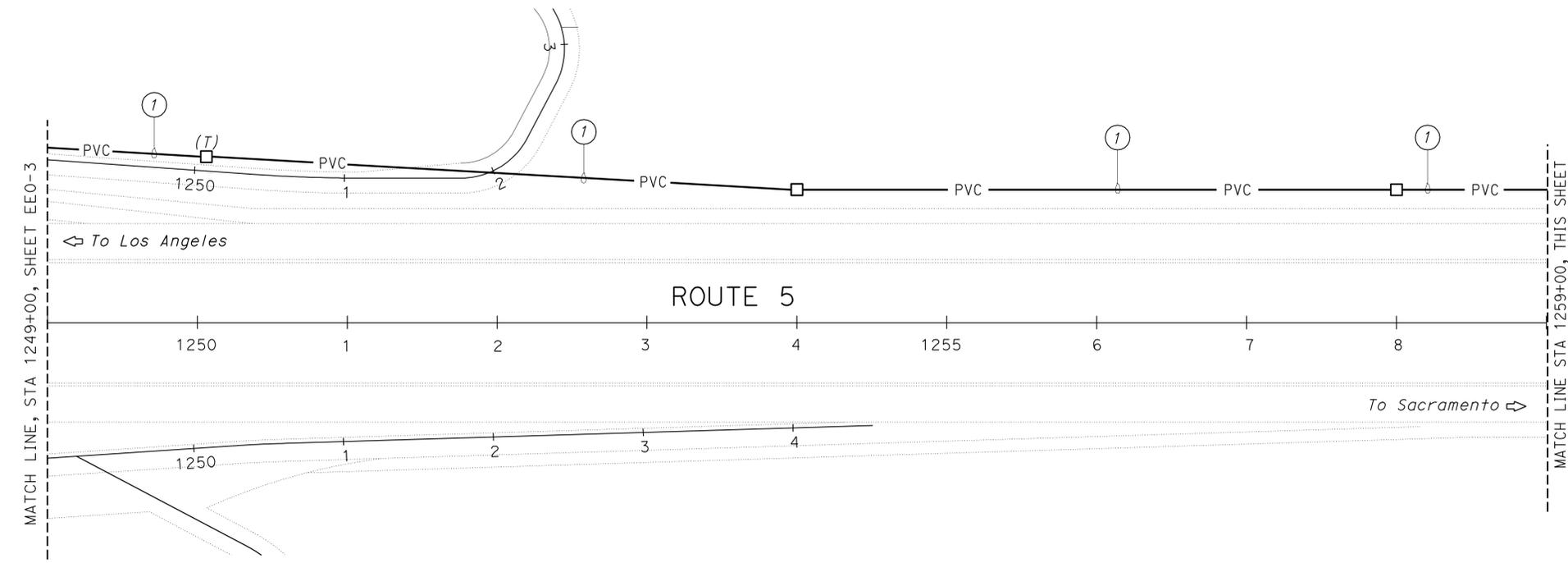
THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>C. A. Enriquez</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. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE	SHEET EE0-3
				POST MILE R23.5		
DETAILS BY <i>Ed D. Tapalla/Dall Zhou</i>	CHECKED <i>C. A. Enriquez</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT 3596	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 4/18/08 6/26/08 5/18/10 11/18/10 12/8/10	SHEET OF
QUANTITIES BY <i>C. A. Enriquez</i>	CHECKED <i>J. S. Sandhu</i>	PROJECT NUMBER & PHASE 10000002331				OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	47	76

Catalino A. Enriquez
 REGISTERED ELECTRICAL ENGINEER
 DATE 12-08-10
 No. 16944
 Exp. 6-30-13
 ELEC
 STATE OF CALIFORNIA

12-5-11
 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.



- General Notes:
- Existing conduits and conductors are not shown. Contractor shall field verify the exact location of existing conduits and conductors that may affect construction prior to the beginning of trenching, excavation and removal work.
 - The cost of all work in locating existing pull boxes, underground utilities, conduit and conductor system shall be paid for in the building lump sum contract price and no additional cost will be paid.
 - Locate new WSMS as directed by the Engineer.

- Notes:
- 2"C, 2#6 (120 Volt power), 5#10 (WSMS control), 2#10 spare, 1#8G.
 - Install ground rod inside the pull box. Bond ground rod to equipment grounding conductor, metal conduit and metal pull box cover bonding jumper. Pull box bonding jumper shall be braided copper strap of 3-foot minimum length. In addition, bond jumper to pull box cover by providing suitable lug and brass bolt with nut and washer.
 - 1/2"C, PVC coated rigid steel conduit, 2#6 (120 Volt power), 5#10 (WSMS control), 2#10 spare, 1#6G.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY C. A. Enriquez CHECKED J. S. Sandhu DETAILS BY Ed D. Tapalla/Dali Zhou CHECKED C. A. Enriquez QUANTITIES BY C. A. Enriquez CHECKED J. S. Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 39W002R/L POST MILE R23.5	SANTA NELLA WEIGH STATION UPGRADE SITE PLAN 3	SHEET EE0-4 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3596 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 6/26/08 11/8/10 12/8/10	SHEET OF
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	48	76

Catalino A. Enriquez REGISTERED ELECTRICAL ENGINEER No. 16944 Exp. 6-30-13 ELEC STATE OF CALIFORNIA		12-08-10 DATE
12-5-11 PLANS APPROVAL DATE		
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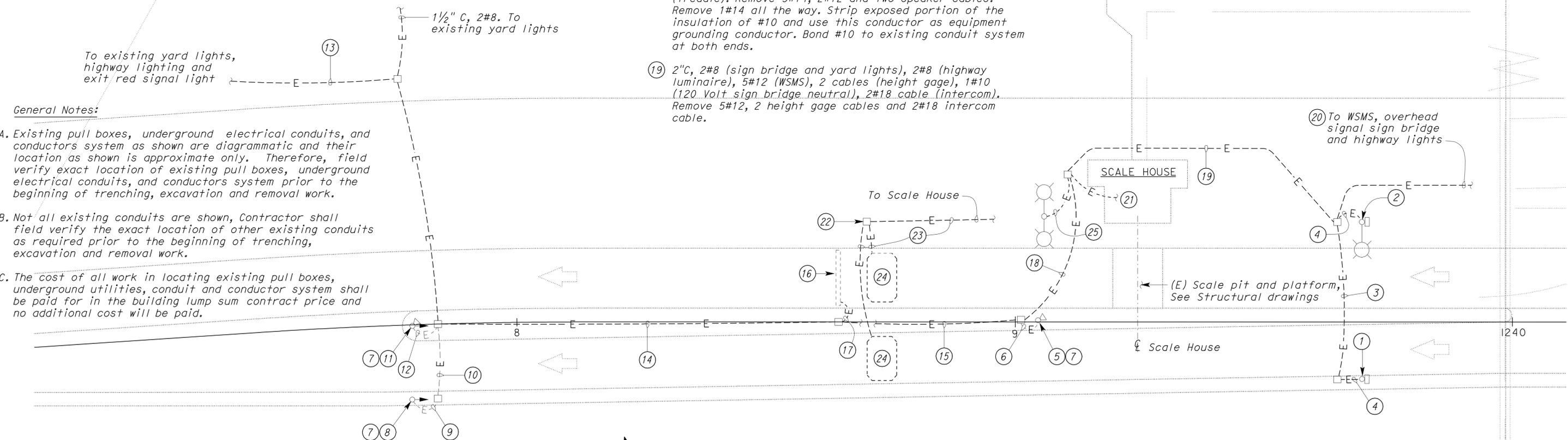
CALIFORNIA STATE FIRE MARSHAL
APPROVED
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 Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 04-27-11

Notes:

- ① Pole with height gage transmitter. Remove existing height gage transmitter, brackets, and associated conductors. Pole to remain.
- ② Pole with height gage receiver and yard lighting. Remove existing height gage receiver, brackets, siren, electrical panels and associated conductors. Pole and yard lighting to remain. Plug all unused openings.
- ③ 1/2"C, Height gage cables. Remove cables and reuse conduit.
- ④ 1"C, Height gage cables. Lighting conductors to remain. Remove height gage cables.
- ⑤ Pole with speaker. Remove pole, speaker and associated cables.
- ⑥ 1"C, Speaker cable. Remove cable and abandon conduit.
- ⑦ Remove foundation 6-inch below ground. Remove conduit stubs and anchor bolts as required.
- ⑧ Pole with signal lights. Remove pole, signal lights and associated conduit and conductors.
- ⑨ 1"C, 2#14, 1#10. Remove conductors and abandon conduit.
- ⑩ 1/2"C, 2#14, 1#10. Remove conductors and abandon conduit.
- ⑪ Pole with signal lights and speaker. Remove pole, signal lights, speaker and associated conduit and conductors.

- ⑫ 1/2"C, 2#14, 1#10, speaker cable. Remove conductors, cable and abandon conduit.
- ⑬ 1/2"C, 2#8 (yard lights), 2#8 (highway luminaire), 1#14 (exit signal light), 1#10 neutral. Remove 1#14 all the way. Strip exposed portion of the insulation of #10 and use this conductor as equipment grounding conductor. Bond #10 to existing conduit system at both ends.
- ⑭ 2"C, 2#8 (yard lights), 2#8 (highway luminaire), 5#14 (signal lights), 1#10 neutral, 1 speaker cable. Remove 5#14, and speaker cable. Remove 1#14 all the way. Strip exposed portion of the insulation of #10 and use this conductor as equipment grounding conductor. Bond #10 to existing conduit system at both ends.
- ⑮ 2"C, 2#8 (yard lights), 2#8 (highway luminaire), 5#14 (signal lights), 1#10 neutral, 1 speaker cable, 2#12 (treadle). Remove 5#14, 2#12 and speaker cable. Remove 1#14 all the way. Strip exposed portion of the insulation of #10 and use this conductor as equipment grounding conductor. Bond #10 to existing conduit system at both ends.
- ⑯ Axle detector sensor. Remove axle detector treadle and fill opening as directed by the Engineer.
- ⑰ 1"C, 2#12. Remove conductors and abandon conduit.
- ⑱ 2"C, 2#8 (yard lights), 2#8 (highway luminaire), 5#14 (signal lights), 1#10 neutral, 2 speaker cables, 2#12 (treadle). Remove 5#14, 2#12 and two speaker cables. Remove 1#14 all the way. Strip exposed portion of the insulation of #10 and use this conductor as equipment grounding conductor. Bond #10 to existing conduit system at both ends.
- ⑲ 2"C, 2#8 (sign bridge and yard lights), 2#8 (highway luminaire), 5#12 (WSMS), 2 cables (height gage), 1#10 (120 Volt sign bridge neutral), 2#18 cable (intercom). Remove 5#12, 2 height gage cables and 2#18 intercom cable.

- ⑳ 1/2"C, 1#8, 1#10 (sign bridge), 2#8 (highway luminaire), 5#12 (WSMS), 2#18 cable (intercom). Disconnect 5#12 and 2#18 cable at both ends and mark as spare.
- ㉑ 2 1/2"C, 4#8 (highway luminaire), 2#8 (yard and sign lights), 1#10 neutral (sign bridge), 2#12 (control yard and sign lights), 1#10 spare (old signals neutral).
- ㉒ Remove pull box and fill resulting opening as directed by the Engineer.
- ㉓ Loop detector cables and conduit. Remove cable as required and abandon underground conduit.
- ㉔ Traffic loops. Abandon loops.
- ㉕ 1/2"C, 6#8 (yard and sign bridge lights), 2#12 lights control.



General Notes:

- A. Existing pull boxes, underground electrical conduits, and conductors system as shown are diagrammatic and their location as shown is approximate only. Therefore, field verify exact location of existing pull boxes, underground electrical conduits, and conductors system prior to the beginning of trenching, excavation and removal work.
- B. Not all existing conduits are shown, Contractor shall field verify the exact location of other existing conduits as required prior to the beginning of trenching, excavation and removal work.
- C. The cost of all work in locating existing pull boxes, underground utilities, conduit and conductor system shall be paid for in the building lump sum contract price and no additional cost will be paid.

SITE PLAN
 SCALE 1" = 10'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <u>C. A. Enriquez</u> CHECKED <u>J. S. Sandhu</u> DETAILS BY <u>Ed D. Tapalla 7-08</u> CHECKED <u>C. A. Enriquez</u> QUANTITIES BY <u>C. A. Enriquez</u> CHECKED <u>J. S. Sandhu</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE1-1
			POST MILE R23.5	SOUTHBOUND	EXISTING SCALE HOUSE VICINITY	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT 3596 PROJECT NUMBER & PHASE 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES →		REVISION DATES (PRELIMINARY STAGE ONLY) 7/17/08 11/28/10 12/8/10

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	49	76

<i>Catalino A. Enriquez</i> REGISTERED ELECTRICAL ENGINEER		12-08-10 DATE
12-5-11 PLANS APPROVAL DATE		

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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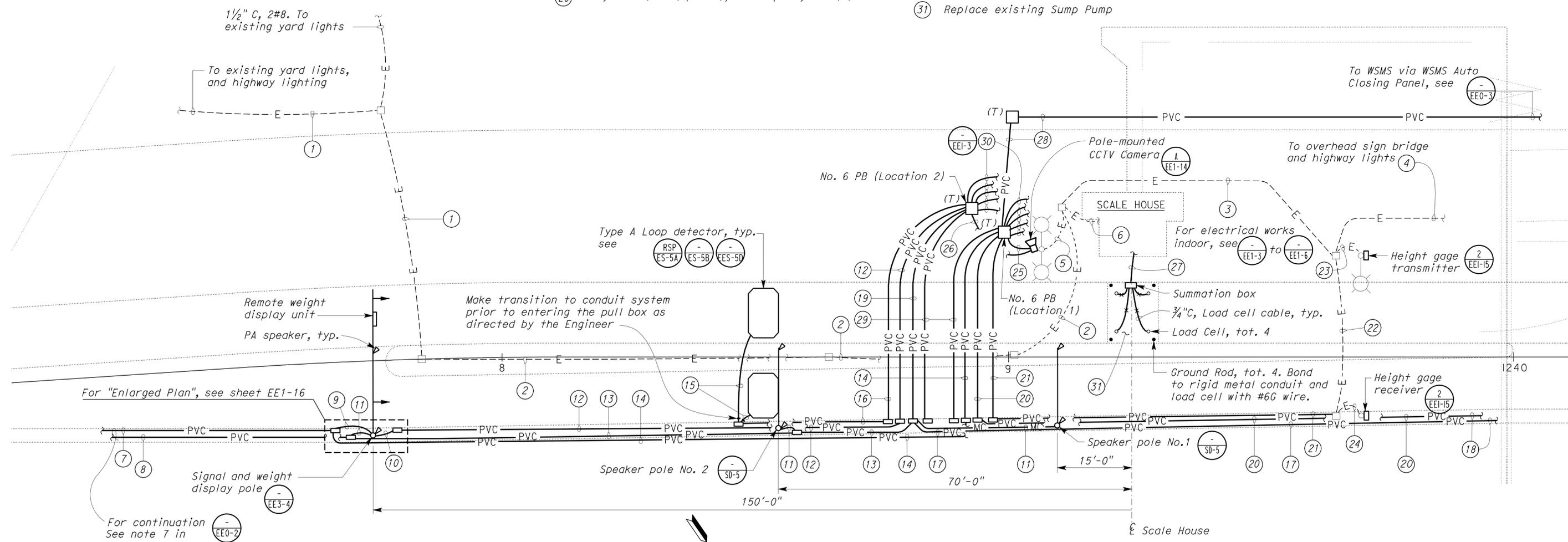
Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 04-27-11

Notes:

- ① 1/2"C, 2#8 (yard lights), 2#8 (highway luminaire) and 1#10G.
- ② 2"C, 2#8 (yard lights), 2#8 (highway luminaire), and 1#10G.
- ③ 2"C, 2#8 (sign bridge and yard lights), 1#10 (120-Volt sign bridge neutral) 2#8 (highway luminaire)
- ④ 1/2"C, 1#8, 1#10 (sign bridge), 2#8 (highway luminaire).
- ⑤ 1/2"C, 6#8 (yard and sign lights), 2#12 (control-yard and sign lights).
- ⑥ 2/2"C, 4#8 (highway luminaire), 2#8 (yard and sign lights), 1#10 neutral (sign bridge), 2#12 (control yard and sign lights), 1#10 spare (old signals neutral).
- ⑦ 1"C, 2#10, 1#10G to traffic signal mounted at exit signal and speaker pole via pull box.
- ⑧ 1"C, Speaker cable to PA speaker mounted at exit signal and speaker pole via pull box.

- ⑨ 1"C, (MC), 7#12 (traffic signals), 3#12 (remote weight display power), 2#12 spare, 1#12G.
- ⑩ 1"C, MC, Remote weight display cable.
- ⑪ 1"C, MC, 2 Speakers cable, 1#12G.
- ⑫ 1"C, Remote weight display cable.
- ⑬ 1/2"C, 3 Speakers cable, 1#12G.
- ⑭ 1/2"C, 8#10 (traffic signals), 3#10 (remote weight display power), 2#10 spare, 1#10G.
- ⑮ Loop conductors.
- ⑯ 1/2"C, 2 Loop detector lead-in cables.
- ⑰ 1"C, CCTV Cable.
- ⑱ To CCTV camera mounted on top of the sign bridge via pull box. See EE0-3.
- ⑲ 1/2"C, 3 Speaker cables, 1 CCTV cable, 1#12(G).
- ⑳ 1"C, 2#10 (CCTV) power), 2#10 spare, 1#10(G).

- ㉑ 1"C, 2#10 (height gauge power), 2#12 (height gage control), 2#12 spare, 1#10G.
- ㉒ Existing 1/2"C. Install 2#10 (height gage power), 1#10G.
- ㉓ Existing 1"C with lighting conductors and 2#12, 1#12G to height gage transmitter and wire.
- ㉔ Existing 1"C. Install 2#12 (height gage power), 2#12 (height gage control), 2#12 spare, 1#12G.
- ㉕ 3/4"C, (MC), 2#12 (CCTV power), 2#12 spare, 1#12G.
- ㉖ 3/4"C, (MC), CCTV cable, 1#12G.
- ㉗ 3/4"C, Weight meter cable to weight meter inside the scale house. For continuation see sheet EE1-3.
- ㉘ 2"C, 2#6 (power), 2#10 spare to WSMS, 5#10 (WSMS control) 3#12 and 3#12 spare (WSMS auto closing panel-control), 1#8G.
- ㉙ 1"C, Pull rope.
- ㉚ Conduit and conductors or cables to panels and cable trough at scale desk area inside the Scale House.
- ㉛ Replace existing Sump Pump



SITE PLAN
 SCALE 1" = 10'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>C. A. Enriquez</i> CHECKED <i>J. S. Sandhu</i> DETAILS BY <i>Ed D. Tapalla/Dali Zhou</i> CHECKED <i>C. A. Enriquez</i> QUANTITIES BY <i>C. A. Enriquez</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. 39W002R/L POST MILE R23.5	SANTA NELLA WEIGH STATION UPGRADE	SHEET EE1-2
	SOUTHBOUND MODIFIED SCALE HOUSE VICINITY	UNIT 3596 PROJECT NUMBER & PHASE 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 7/12/08 9/28/08 5/18/10	SHEET OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	TAEWW Imperial Rev. 7/10	97-DEC-2011 13:19 ee1_02.dgn	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	50	76

<i>Catalino A. Enriquez</i>		12-08-10
REGISTERED ELECTRICAL ENGINEER	DATE	
No. 16944		
Exp. 6-30-13		
ELEC		
STATE OF CALIFORNIA		

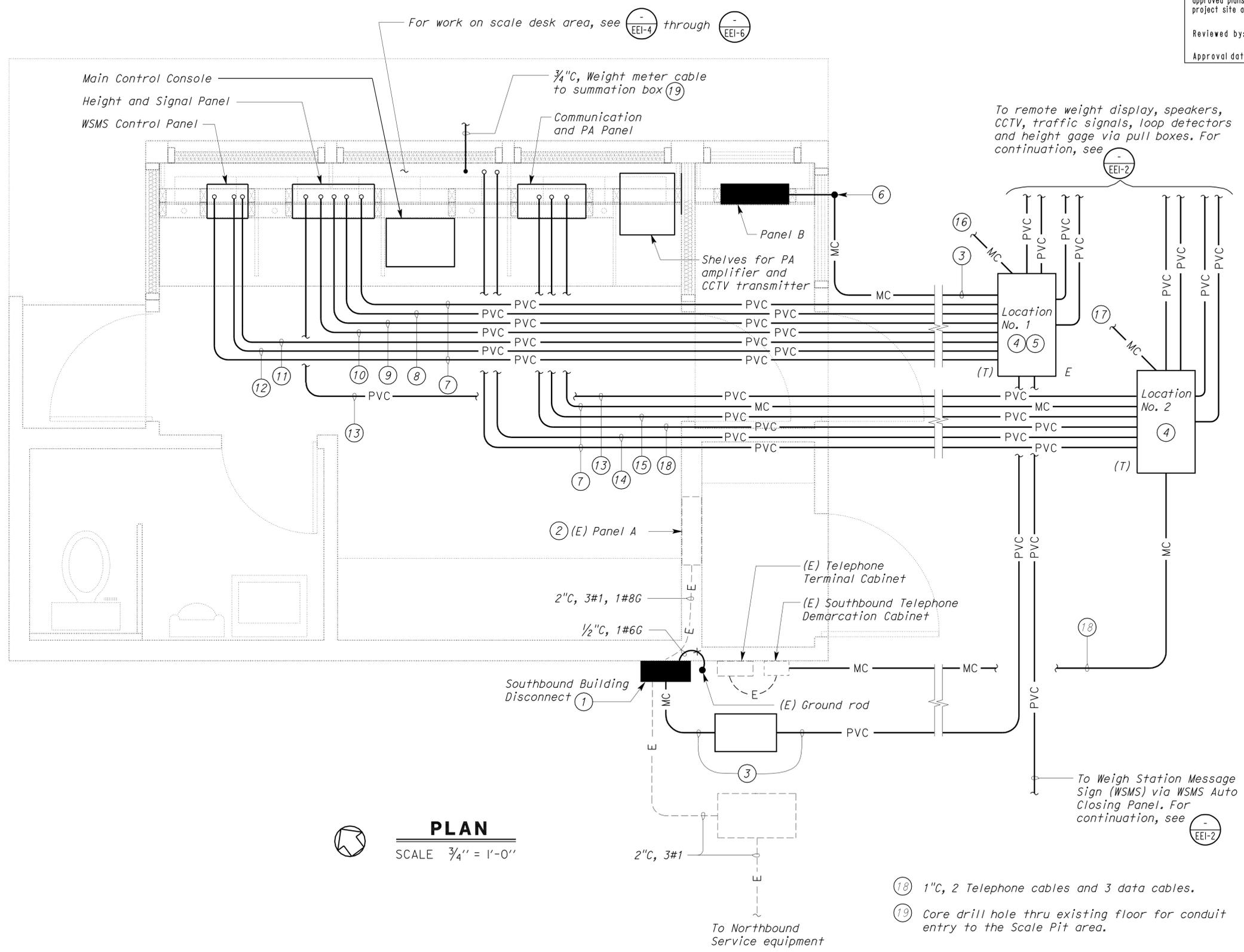
12-5-11
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 04-27-11



PLAN
SCALE 3/4" = 1'-0"

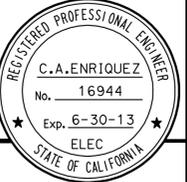
- Notes:**
- 1) Replace existing Service Disconnect with 100-Ampere, 2-pole circuit breaker type building disconnect rated as Service Entrance equipment, complete with neutral bus and ground bus. Provide and install power distribution connector type on the load side of the circuit breaker. Modify existing conduit and conductors as required and connect to new building disconnect. Terminate both Panel A and Panel B feeders on the load side of the building disconnect. Terminate all new and existing neutral conductors to neutral bus. Terminate all new and existing equipment and grounding electrode conductors to ground bus. Install grounding type bushings in all metal conduits. Bond neutral bus/ground bus to existing ground rod with 1/2"C, 1#6G.
 - 2) Isolate neutral bus. Provide and install grounding bus. Terminate all equipment grounding conductors on to the grounding bus.
 - 3) 1/2"C, 3#1, 1#6G.
 - 4) No. 6 Pull box as shown on sheet EE1-2.
 - 5) Install pull box with box extension. Install ground rod inside the pull box. Bond metal conduit feeder for Panel B and pull box metal cover with 1#6G. Exothermically weld all 1#6G to ground rod.
 - 6) Install conduit body.
 - 7) 1"C, Pull rope.
 - 8) 1"C, 2#10 (CCTV power), 3#10 (remote weight display power), 2#10 spare, 1#10G.
 - 9) 1"C, 2#10 (height gage power), 2#12 (height gage control), 2#12 spare, 1#10G.
 - 10) 1/2"C, 8#10 (traffic signals), 2#10 spare, 1#10G.
 - 11) 1"C, 2#6 (WSMS power), 2#10 WSMS spare, 1#8G.
 - 12) 1"C, 3#12 and 3#12 spare (WSMS auto closing panel-control), 5#10 (WSMS control), 1#10G.
 - 13) 1"C, 2 Loop detector lead-in cables.
 - 14) 1"C, Remote weight display cable.
 - 15) 1"C, 3 Speaker cable, 2 CCTV cable, 1#12G.
 - 16) 3/4"C, 2#12 (CCTV power), 2#12 spare, 1#12G to pole mounted CCTV camera.
 - 17) 3/4"C, CCTV cable, 1#12G, to pole mounted CCTV camera.
 - 18) 1"C, 2 Telephone cables and 3 data cables.
 - 19) Core drill hole thru existing floor for conduit entry to the Scale Pit area.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY	C. A. Enriquez	CHECKED	J. S. Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	39W002R/L	SANTA NELLA WEIGH STATION UPGRADE SCALE HOUSE POWER AND COMMUNICATION PLAN	SOUTHBOUND	SHEET EE1-3		
	DETAILS	BY	Dali Zhou/Ed Tapalla	CHECKED			C. A. Enriquez	POST MILE				R23.5	
	QUANTITIES	BY	C. A. Enriquez	CHECKED			J. S. Sandhu	REVISION DATES (PRELIMINARY STAGE ONLY)					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES			SHEET	OF
TAEMWW Imperial Rev. 7/10					UNIT PROJECT NUMBER & PHASE			3596 10000002331	REVISION DATES (PRELIMINARY STAGE ONLY)				

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	51	76

Catalino A. Enriquez
REGISTERED ELECTRICAL ENGINEER
12-08-10
DATE



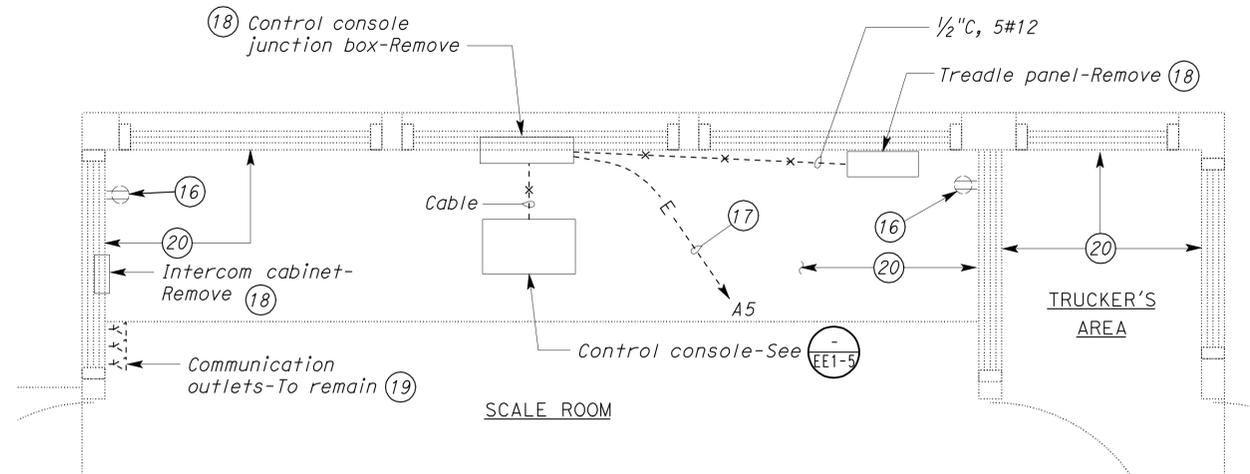
12-5-11
PLANS APPROVAL DATE

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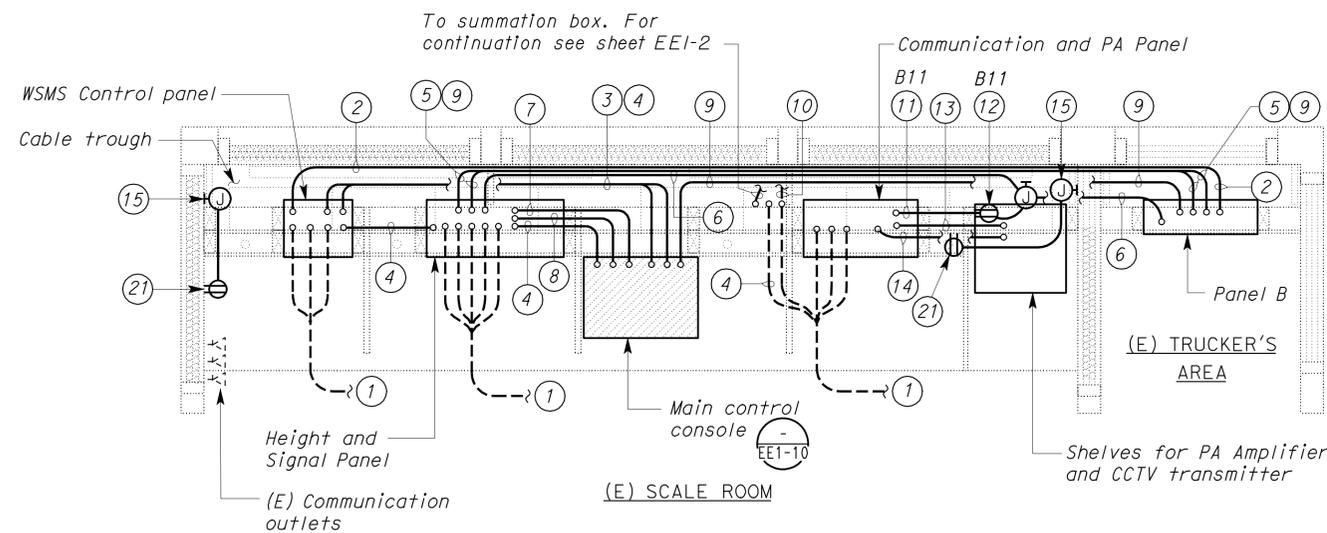
CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: Polly Parenti
POLLY PARENTI
Approval date: 04-27-11



EXISTING



MODIFIED



PLAN

SCALE 3/4" = 1'-0"

(ELECTRICAL WORK SHOWN UNDER SCALE DESK UNLESS OTHERWISE NOTED)

General Notes:

- A. Before equipment removal verify all power conductors connection to panelboard. Turn off power to all affected equipment or devices before working.
- B. For interconnection of each subsystem, see sheet EE1-12.
- C. Contractor may use flexible metal conduit in lieu of EMT conduit behind the cabinetry and inside the cable trough only, in a manner as directed by the Engineer.

Notes:

- 1 Conduits and conductors to field devices via pull box. For conduit and conductors information and continuation, see sheets EE1-2 and EE1-3.
- 2 1" C, 2#8, 1#8G (B2).
- 3 1" C, 13#12, 3#12 spare, 1#12G.
- 4 1" C, MT
- 5 3/4" C, 4#12, 1#12G (B1, B3).
- 6 3/4" C, 4#12 (B5, B11), 2#12 spare, 1#12G.
- 7 1" C, 16#12, 2#12 spare, 1#12G.
- 8 1" C, 11#12, 4#12 spare, 1#12G.
- 9 3/4" C, MT.
- 10 Remote weight meter display cable to weight meter unit at counter top.
- 11 1/2" C, 2#12, 1#12G.
- 12 Install duplex receptacle behind the amplifier opening.
- 13 1" C, Microphone and amplifier cables.
- 14 1" C, 2 CCTV cable.
- 15 Splice new conductors to existing.
- 16 Remove duplex receptacle. Outlet to remain.
- 17 Remove conductors and abandon conduit.
- 18 Conduit and conductors or cables inside the existing wall connected to field devices are not shown. Disconnect and remove all unused conductors or cables. Cap all unused conduits. Remove exposed portion of existing conduit.
- 19 Install junction box extension as required to flush devices in the new wall.
- 20 For wall and desk or counter top replacement, see Architectural sheets.
- 21 Duplex receptacle.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>C. A. Enriquez</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. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE1-4
				POST MILE R23.5	SOUTHBOUND	SCALE DESK POWER AND COMMUNICATION PLAN 1	
DETAILS BY <i>Ed D. Tapalla 3/10</i>	CHECKED <i>C. A. Enriquez</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT 3596 PROJECT NUMBER & PHASE 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY <i>C. A. Enriquez</i>	CHECKED <i>J. S. Sandhu</i>			3/18/10 5/18/10 6/21/10 12/8/10		SHEET	OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	52	76

Catalino A. Enriquez
REGISTERED ELECTRICAL ENGINEER
12-08-10
DATE

12-5-11
PLANS APPROVAL DATE

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General Notes:

- A. Turn off power to all affected equipment or devices before working.
- B. For interconnection of each subsystem, see sheet EE1-12.
- C. Salvaged equipment shall be delivered to Engineer for transportation.

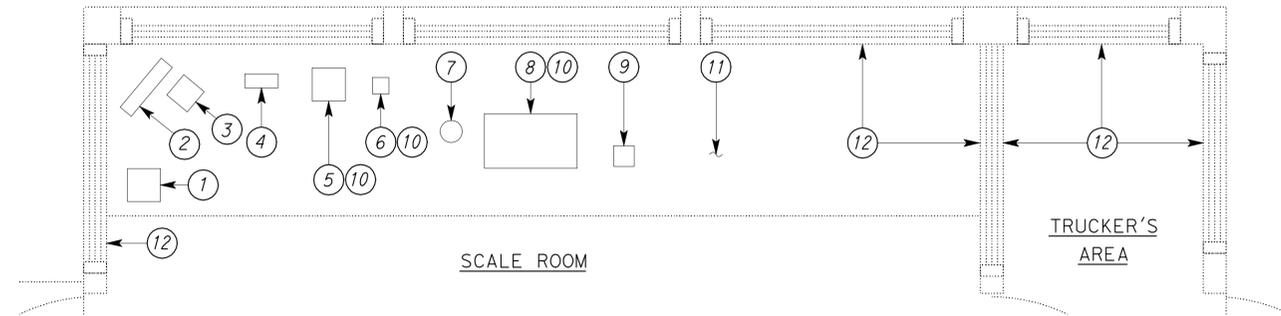
Notes:

- ① Relocate printer.
- ② Relocate WIM monitor.
- ③ Salvage CCTV monitor.
- ④ Salvage CCTV control.
- ⑤ Salvage weight meter.
- ⑥ Salvage weight meter printer.
- ⑦ Remove microphone.
- ⑧ Replace control console.
- ⑨ Relocate telephone.
- ⑩ Conduit and conductors or cables inside the existing wall connected to field devices are not shown. Disconnect all unused conductors or cables at both ends and label them as spare. Cap all unused conduits.
- ⑪ For scale desk replacement, see Architectural sheets.
- ⑫ For wall finish replacement, see Architectural sheets.
- ⑬ Existing WIM cable. Reconnect cable to existing WIM CPU at overhead shelf.
- ⑭ Multi-outlet assembly inside the counter top extension.
- ⑮ WSMS Control Panel mounted below counter top.
- ⑯ Height and Signal Panel mounted below counter top.
- ⑰ 1/2" C, 2#12, 1#12G (B6).
- ⑱ 3/4" C, 1 Telephone cable, 1 data cable.
- ⑲ CCTV Control cable.
- ⑳ 3/4" C, Weight meter cable to summation box. For continuation see, sheet EE1-2.
- ㉑ Weight meter cable.
- ㉒ Microphone cable.
- ㉓ 3/4" C, Remote weight meter display cable to Remote Display Unit via pull box.
- ㉔ Weight meter printer cable.
- ㉕ Communication and PA Panel mounted below counter top.
- ㉖ 3/4" C, 2 Telephone cable, 2 data cable.
- ㉗ 3/4" C, 4#12, 1#12G (B6, B8).
- ㉘ 3/4" C, 1 Data cable to multi-outlet assembly No. 1 at overhead shelf.
- ㉙ CCTV Cable to CCTV monitor.
- ㉚ For the vertical run of the cable, install CCTV cable inside a 1/2 inch EMT type conduit.
- ㉛ Shelves for PA amplifier and CCTV controller.

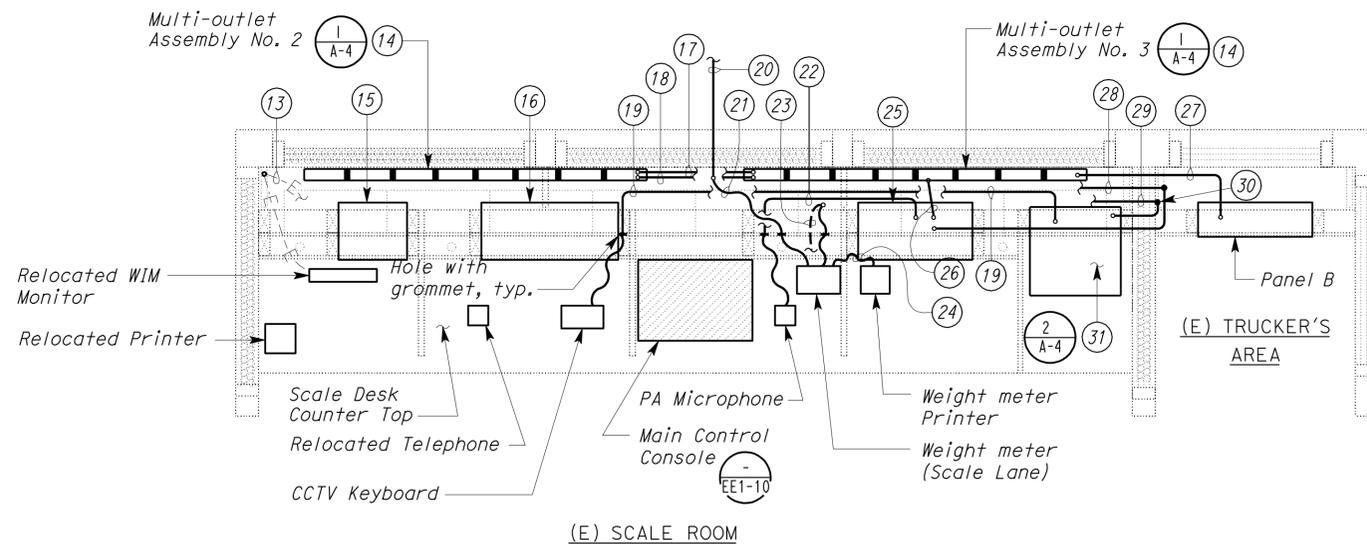
CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 04-27-11



EXISTING



MODIFIED



PLAN

SCALE 3/4" = 1'-0"

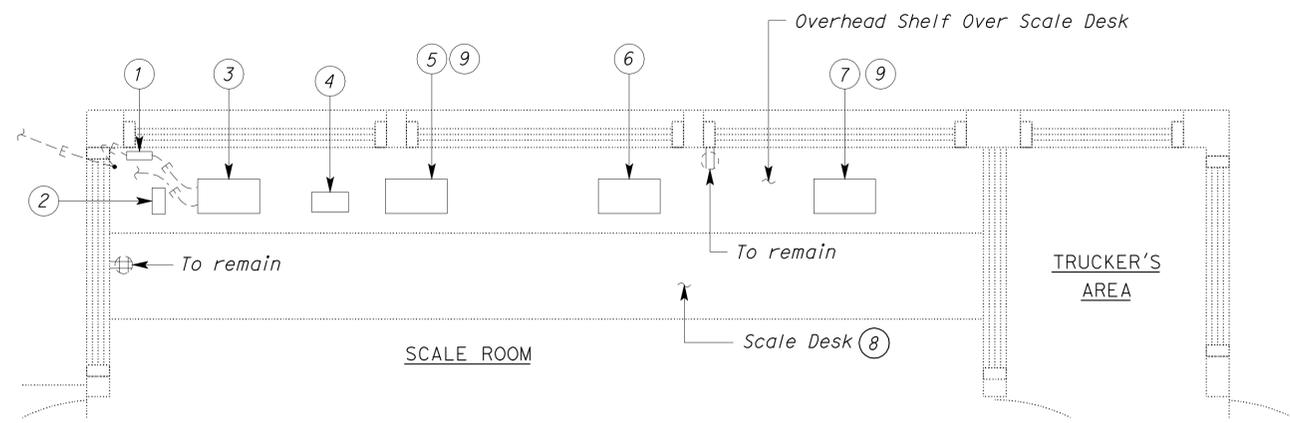
(ELECTRICAL WORK SHOWN AT SCALE DESK UNLESS OTHERWISE NOTED)

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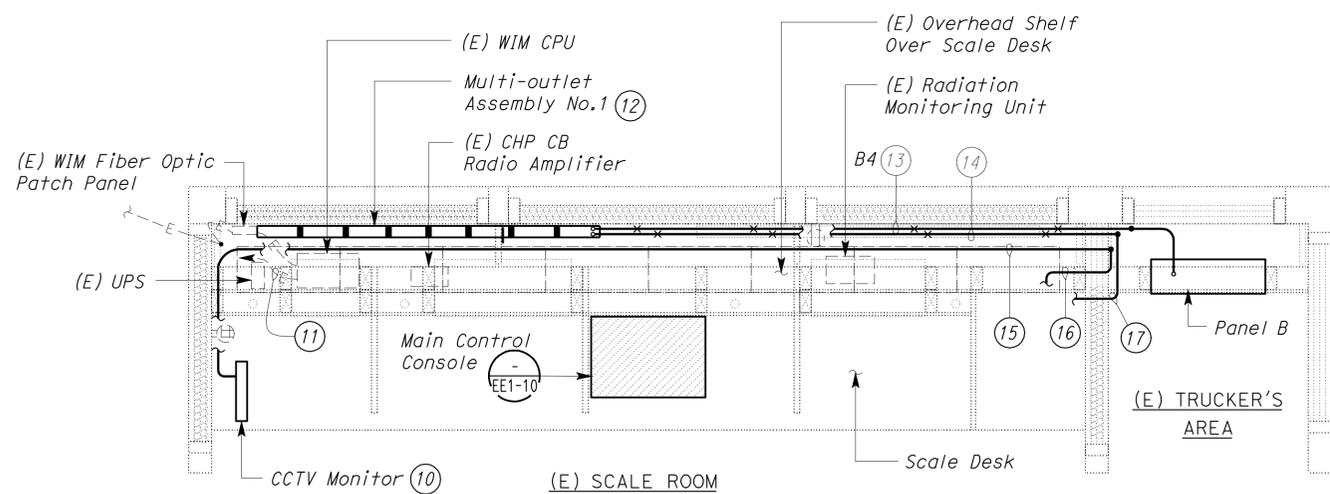
DESIGN BY <i>C. A. Enriquez</i>	CHECKED <i>J. S. Sandhu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE1-5
				POST MILE R23.5	SOUTHBOUND	SCALE DESK POWER AND COMMUNICATION PLAN 2	
DETAILS BY <i>Dali Zhou</i>	CHECKED <i>C. A. Enriquez</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT 3596 PROJECT NUMBER & PHASE 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY <i>C. A. Enriquez</i>	CHECKED <i>J. S. Sandhu</i>			3/11/10 5/11/10 11/20/10 12/8/10		SHEET	OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	53	76

<i>Catalino A. Enriquez</i> REGISTERED ELECTRICAL ENGINEER DATE 12-08-10		
Reviewed by: <i>Polly Parenti</i> POLLY PARENTI Approval date: 04-27-11		
12-5-11 PLANS APPROVAL DATE		
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EXISTING



MODIFIED

PLAN
 SCALE 3/4" = 1'-0"
 (ELECTRICAL WORK SHOWN AT OVERHEAD SHELF ABOVE SCALE DESK)

General Notes:

- A. Turn off power to all affected equipment or devices before working.
- B. For interconnection of each subsystem, see sheet EE1-12.
- C. Salvaged equipment shall be delivered to Engineer for transportation.

Notes:

- ① WIM fiber optic patch panel-To remain.
- ② UPS-To remain.
- ③ WIM CPU-To remain.
- ④ CHP CB radio amplifier-To remain.
- ⑤ Salvage CCTV transmitter.
- ⑥ Radiation monitoring unit-To remain.
- ⑦ Salvage PA amplifier.
- ⑧ For scale desk replacement, see Architectural sheets.
- ⑨ Conduit and conductors or cables inside the existing wall connected to field devices are not shown. Disconnect all unused conductors or cables at both ends and label them as spare. Cap all unused conduits.
- ⑩ Provide and install CCTV monitor mounting bracket. Install CCTV monitor on a bracket mounted and hanging from the ceiling.
- ⑪ Existing WIM cable to existing WIM monitor at desktop.
- ⑫ Mount multi-outlet assembly on the wall and 6 inches above shelf.
- ⑬ 1/2"C, 2#12, 1#12G.
- ⑭ 3/4"C, 1 Data cable.
- ⑮ CCTV cable installed in a raceway.
- ⑯ To CCTV transmitter. For continuation, see sheets EE1-4 and EE1-5.
- ⑰ To Communication and PA Panel below scale desk. For continuation, see sheets EE1-4 and EE1-5.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>C. A. Enriquez</i> CHECKED <i>J. S. Sandhu</i> DETAILS BY <i>Dall Zhou</i> CHECKED <i>C. A. Enriquez</i> QUANTITIES BY <i>C. A. Enriquez</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. 39W0002R/L	SANTA NELLA WEIGH STATION UPGRADE SOUTHBOUND SCALE DESK POWER AND COMMUNICATION PLAN 3	SHEET EE1-6 OF
			POST MILE R23.5		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3596 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 3/17/10 5/18/10 6/24/10 12/8/10	SHEET OF	07-DEC-2011 13:19 ee1_06.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	54	76

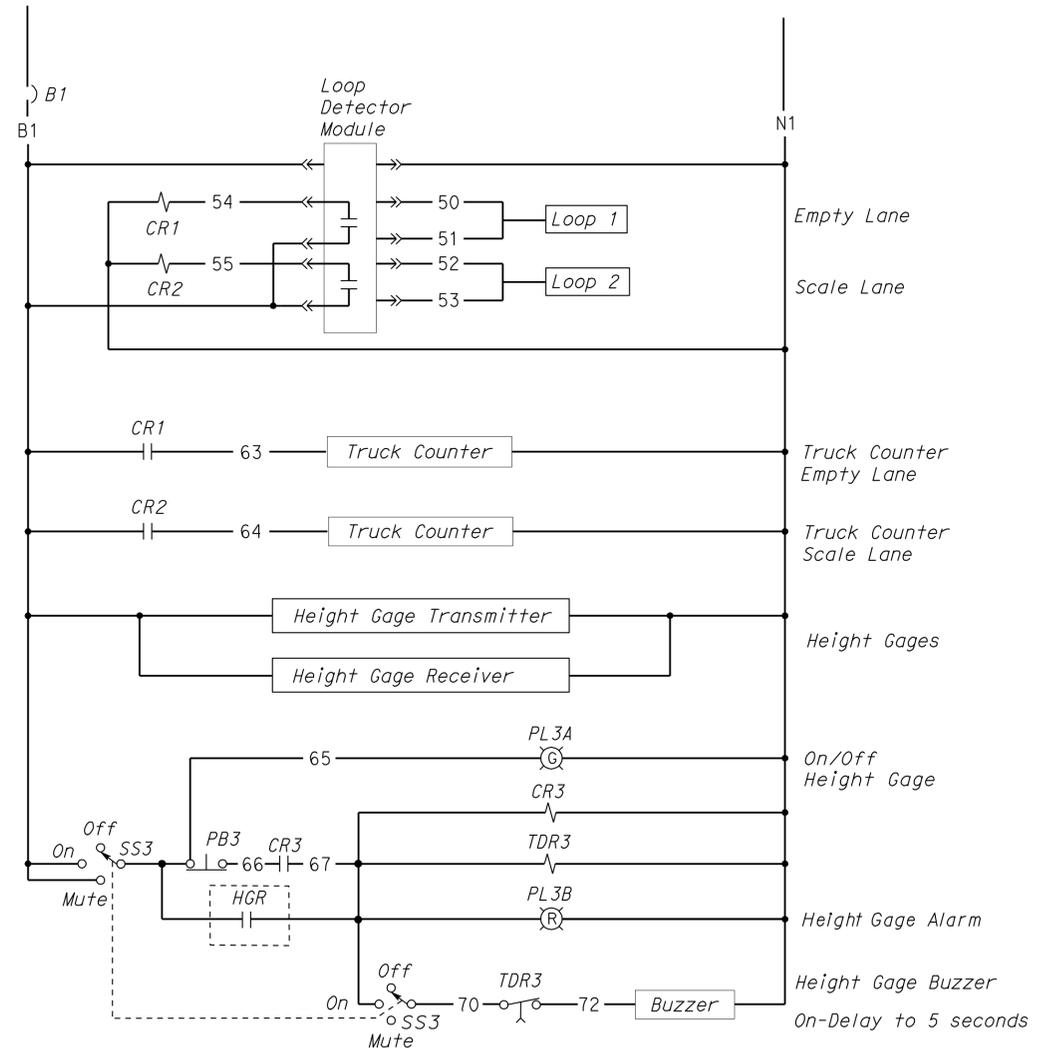
<i>Catalino A. Enriquez</i> REGISTERED ELECTRICAL ENGINEER		12-08-10 DATE
Reviewed by: <i>Polly Parenti</i> POLLY PARENTI		
Approval date: 04-27-11		

12-5-11 PLANS APPROVAL DATE	
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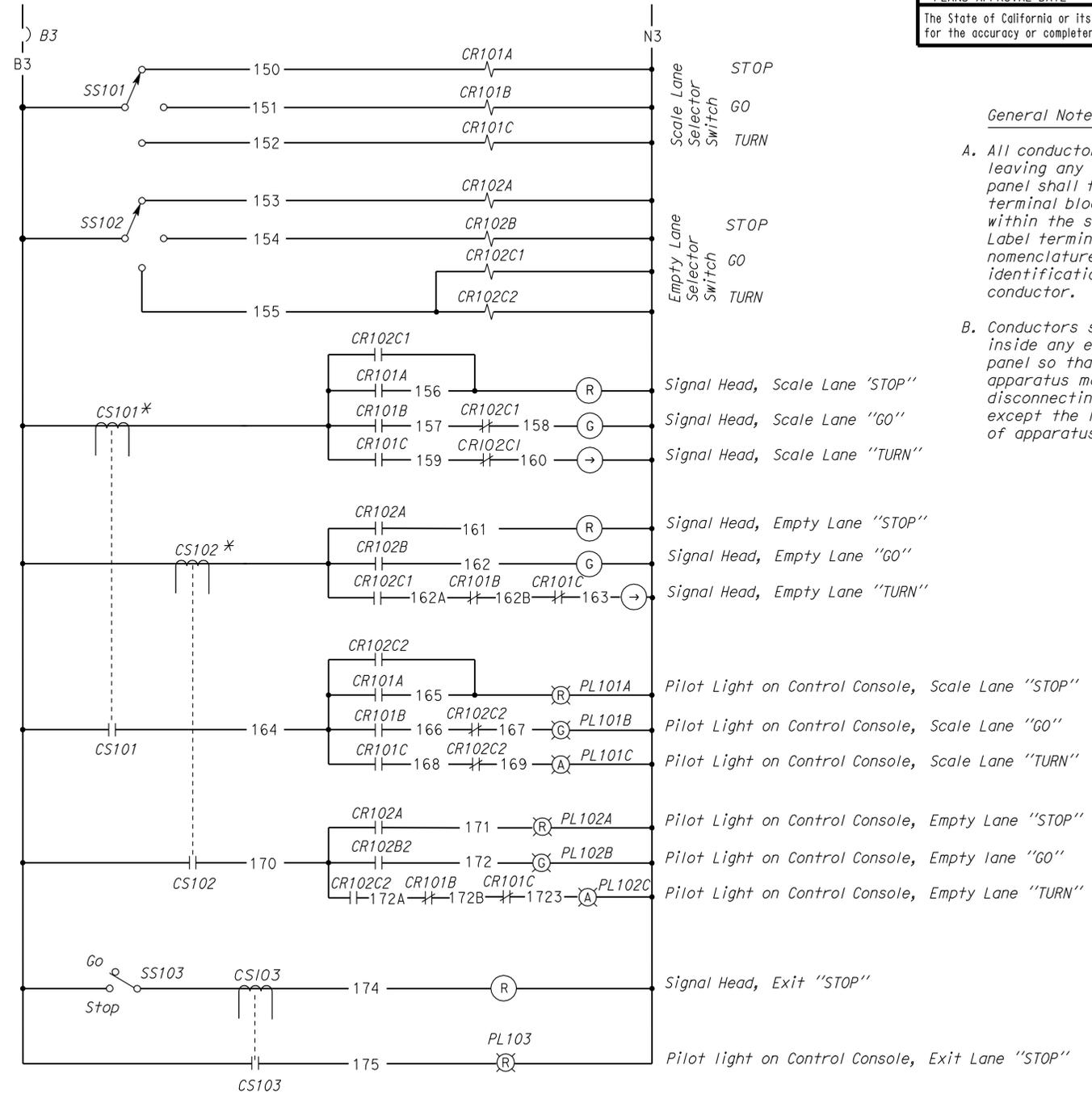
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HEIGHT ALARM



SIGNALS

- General Notes:**
- A. All conductors either entering or leaving any enclosure or control panel shall terminate on labeled terminal blocks which are installed within the same enclosure. Label terminal block the same nomenclature assigned to the identification of terminating conductor.
 - B. Conductors shall be arranged inside any enclosure or control panel so that any piece of apparatus may be removed without disconnecting any conductors except the leads to that piece of apparatus.

SCHEMATIC DIAGRAMS

* 8-10 conductor turns minimum for current sensor

DESIGN BY <i>C. A. Enriquez</i> CHECKED <i>J. S. Sandhu</i> DETAILS BY <i>Ed D. Tapalla 3/10</i> CHECKED <i>C. A. Enriquez</i> QUANTITIES BY <i>C. A. Enriquez</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. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE1-7	
			POST MILE R23.5	SOUTHBOUND	HEIGHT AND SIGNAL PANEL SCHEMATIC DIAGRAM		
			REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE	DISREGARD PRINTS BEARING EARLIER REVISION DATES	3596 10000002331	7/18/08 8/21/08 5/18/10 12/8/10	SHEET OF
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TAEMWW Imperial Rev. 7/10

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	55	76

Catalino A. Enriquez
REGISTERED ELECTRICAL ENGINEER
DATE 12-08-10
No. 16944
Exp. 6-30-13
ELEC
STATE OF CALIFORNIA

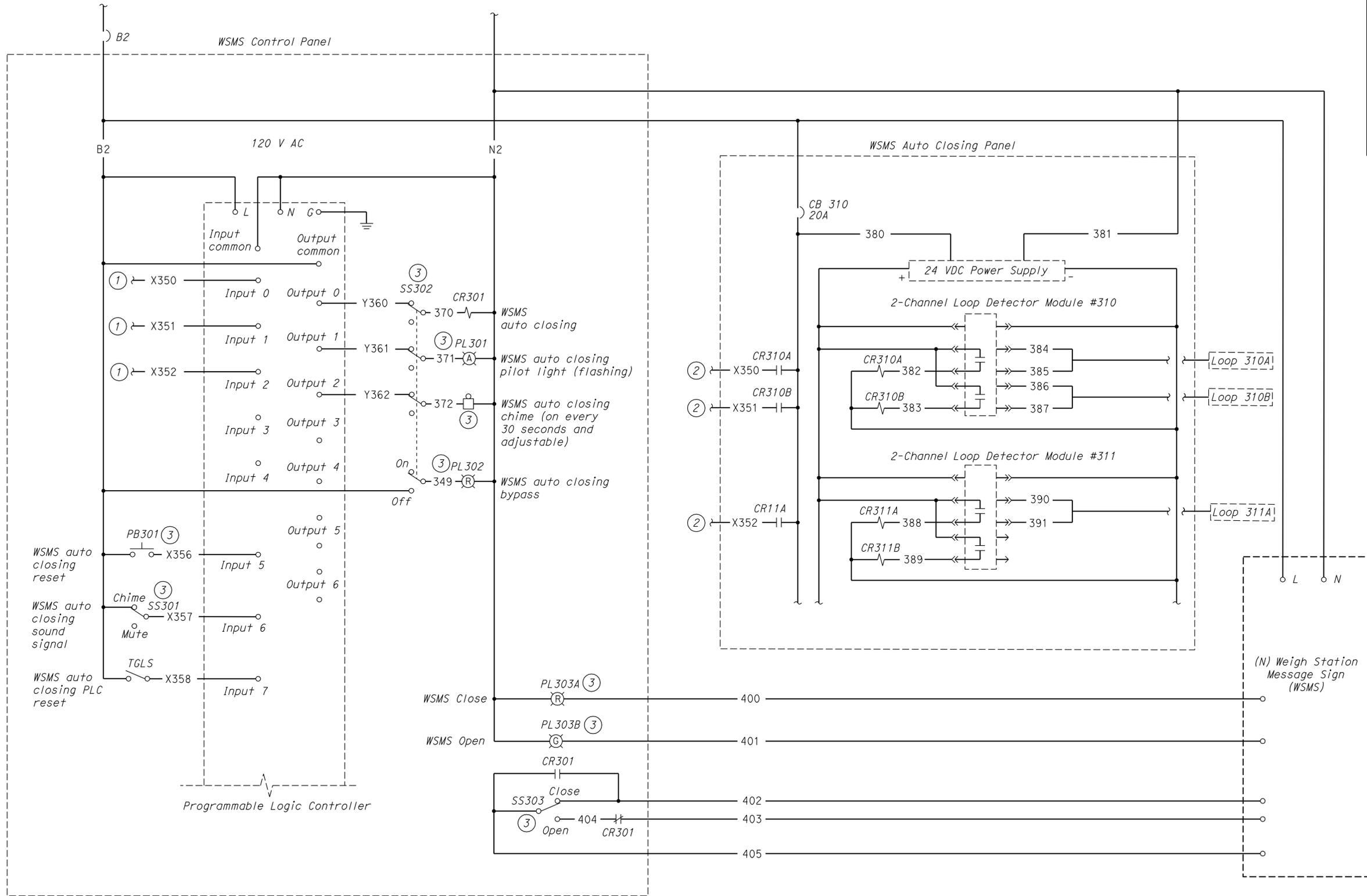
12-5-11
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Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 04-27-11

- General Notes:**
- All conductors either entering or leaving any enclosure or control panel shall terminate on labeled terminal blocks which are installed within the same enclosure. Label terminal block the same nomenclature assigned to the identification of terminating conductor.
 - Conductors shall be arranged inside any enclosure or control panel so that any piece of apparatus may be removed without disconnecting any conductors except the leads to that piece of apparatus.

- Notes:**
- To WSMS auto closing panel.
 - To WSMS control panel.
 - Install device on Main Control Console. See Main Control Console layout.



SCHEMATIC DIAGRAM

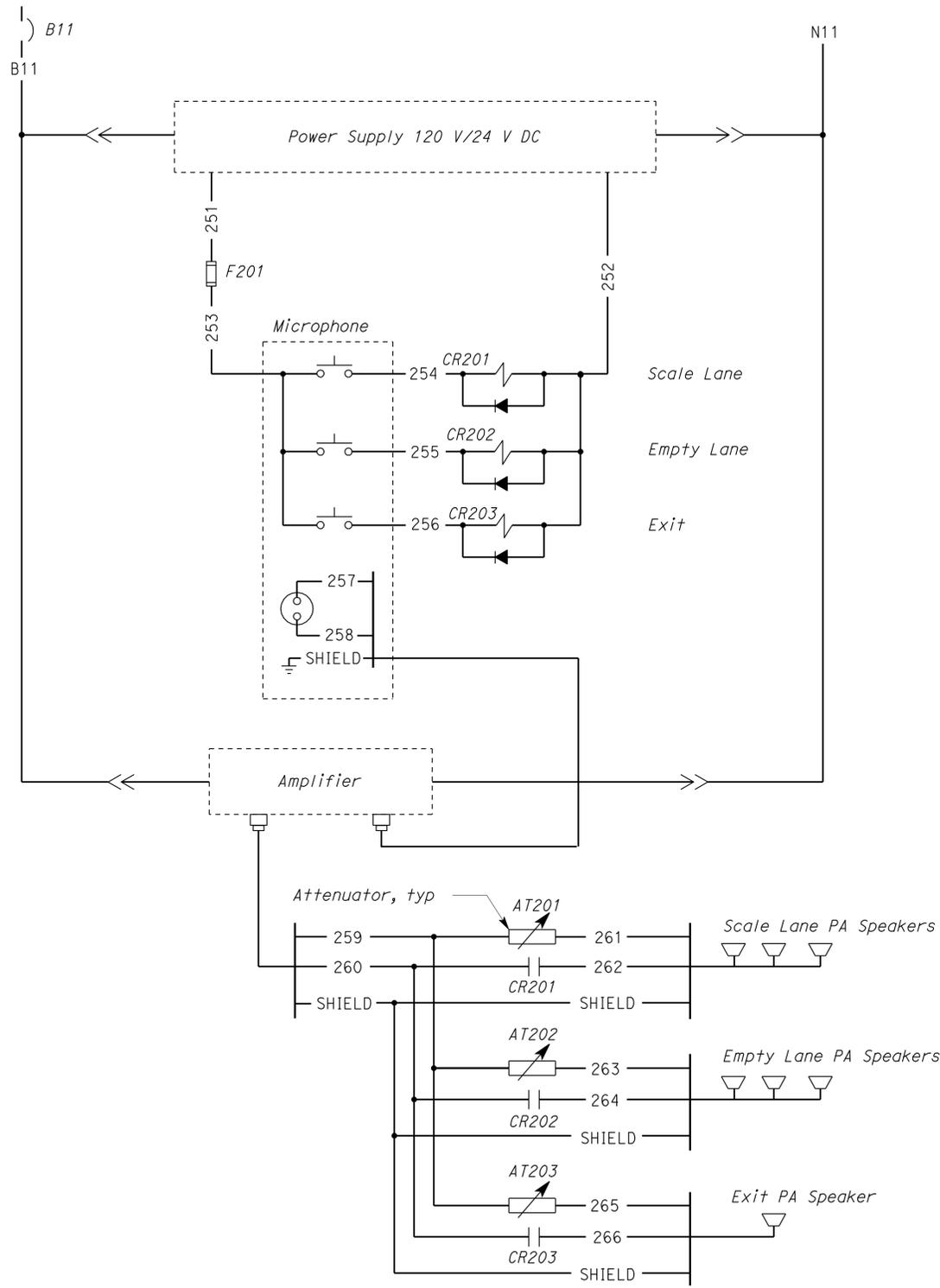
DESIGN BY <i>C. A. Enriquez</i>	CHECKED <i>J. S. Sandhu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE1-8
				POST MILE R23.5	SOUTHBOUND	WEIGH STATION MESSAGE SIGN CONTROL SCHEMATIC DIAGRAM	
				REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
DETAILS BY <i>Ed D. Tapalla 3/10</i>	CHECKED <i>C. A. Enriquez</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3596 1000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES 7/18/08 3/15/10 5/18/10 11/16/10	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY <i>C. A. Enriquez</i>	CHECKED <i>J. S. Sandhu</i>						

CALIFORNIA STATE FIRE MARSHAL APPROVED

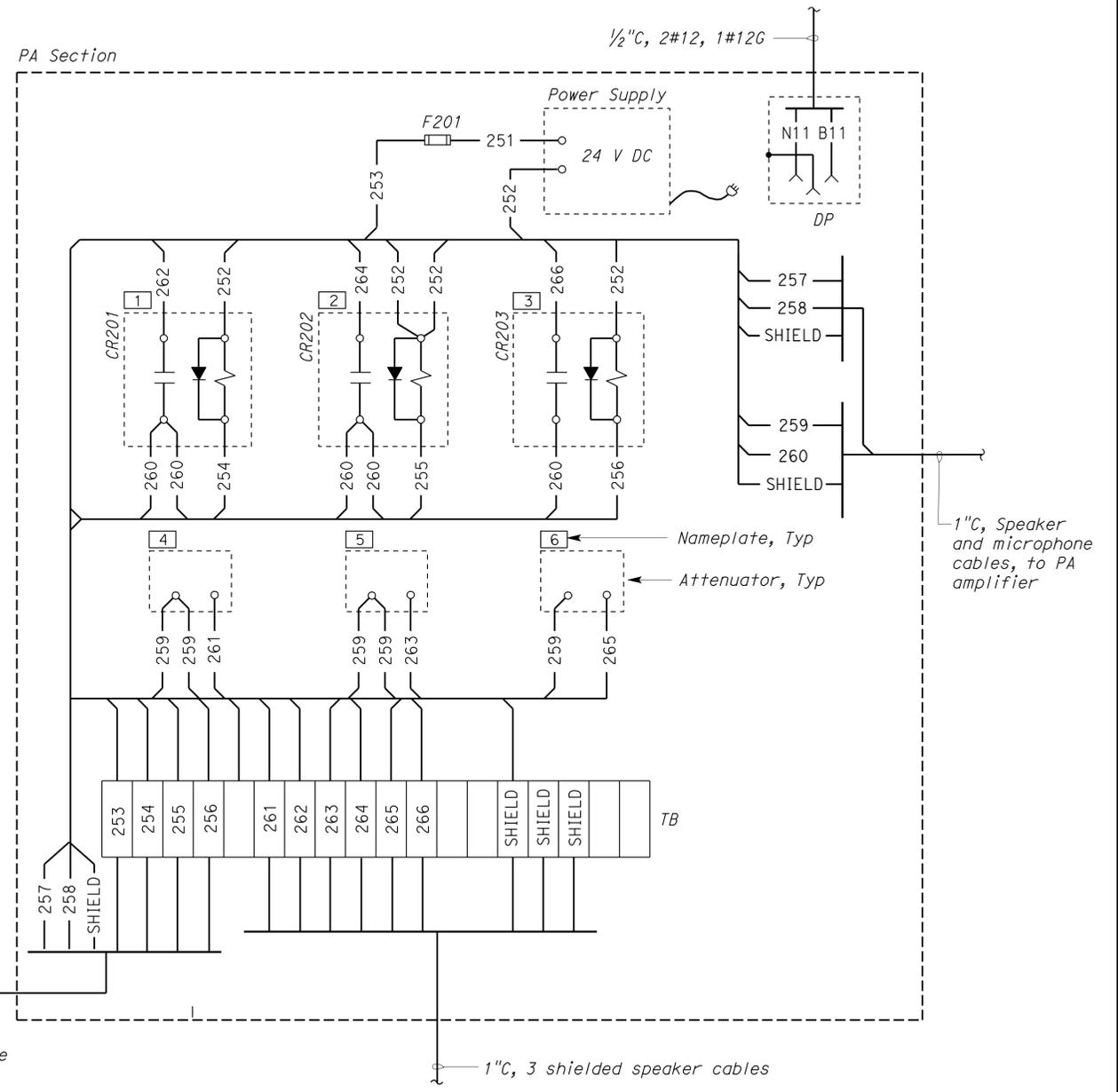
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Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 04-27-11

NAMEPLATE SCHEDULE		
ITEM NO.	INSCRIPTION	LETTER HEIGHT
1	CR201	1/4"
2	CR202	1/4"
3	CR203	1/4"
4	SCALE LANE	1/4"
5	EMPTY LANE	1/4"
6	EXIT	1/4"



SCHEMATIC DIAGRAM



PA SECTION WIRING DIAGRAM
(COMMUNICATION PANEL)

(EXTERIOR DOOR NOT SHOWN)

DESIGN	BY <i>C. A. Enriquez</i>	CHECKED <i>J. S. Sandhu</i>
DETAILS	BY <i>Ed D. Tapalla 3/10</i>	CHECKED <i>C. A. Enriquez</i>
QUANTITIES	BY <i>C. A. Enriquez</i>	CHECKED <i>J. S. Sandhu</i>

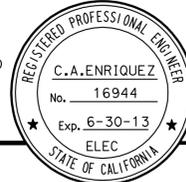
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 39W002R/L
POST MILE R23.5

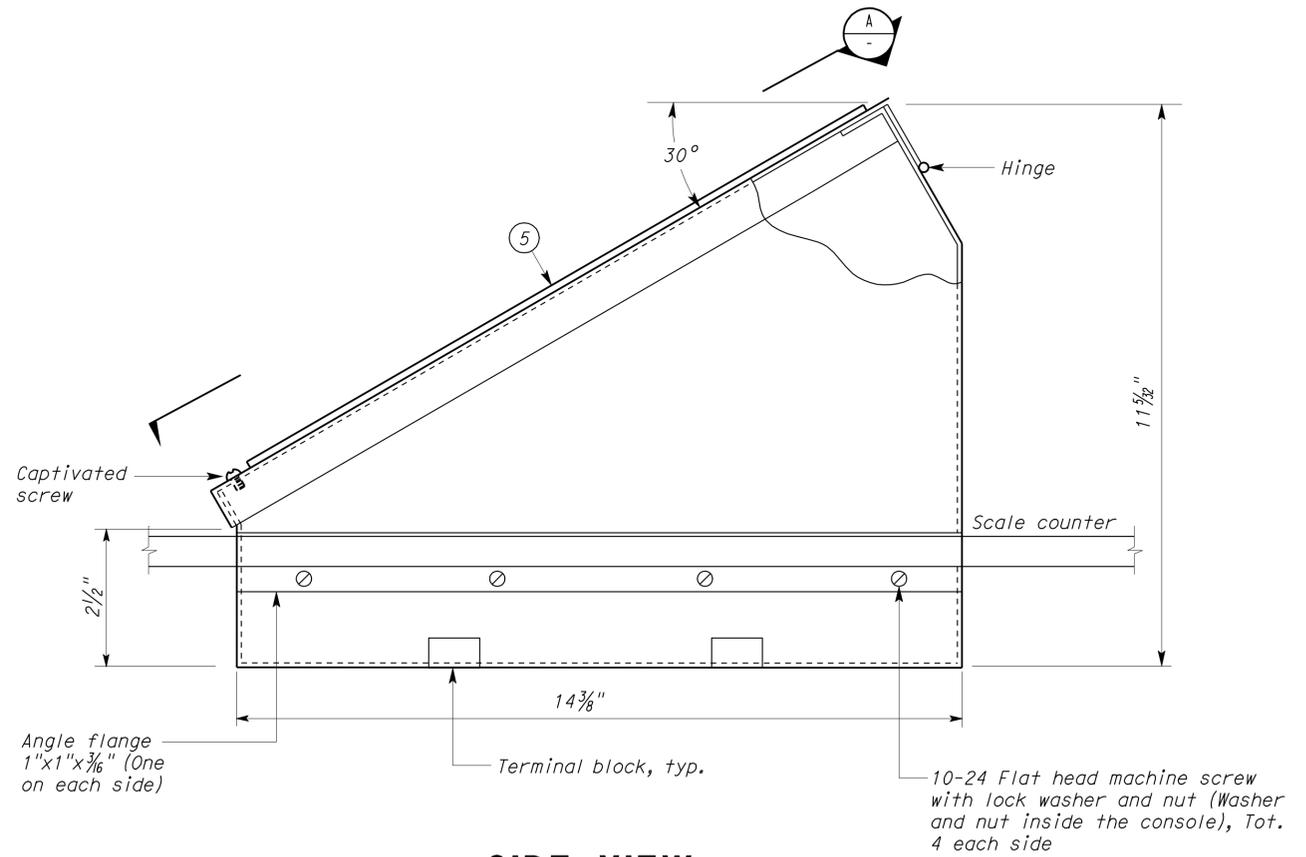
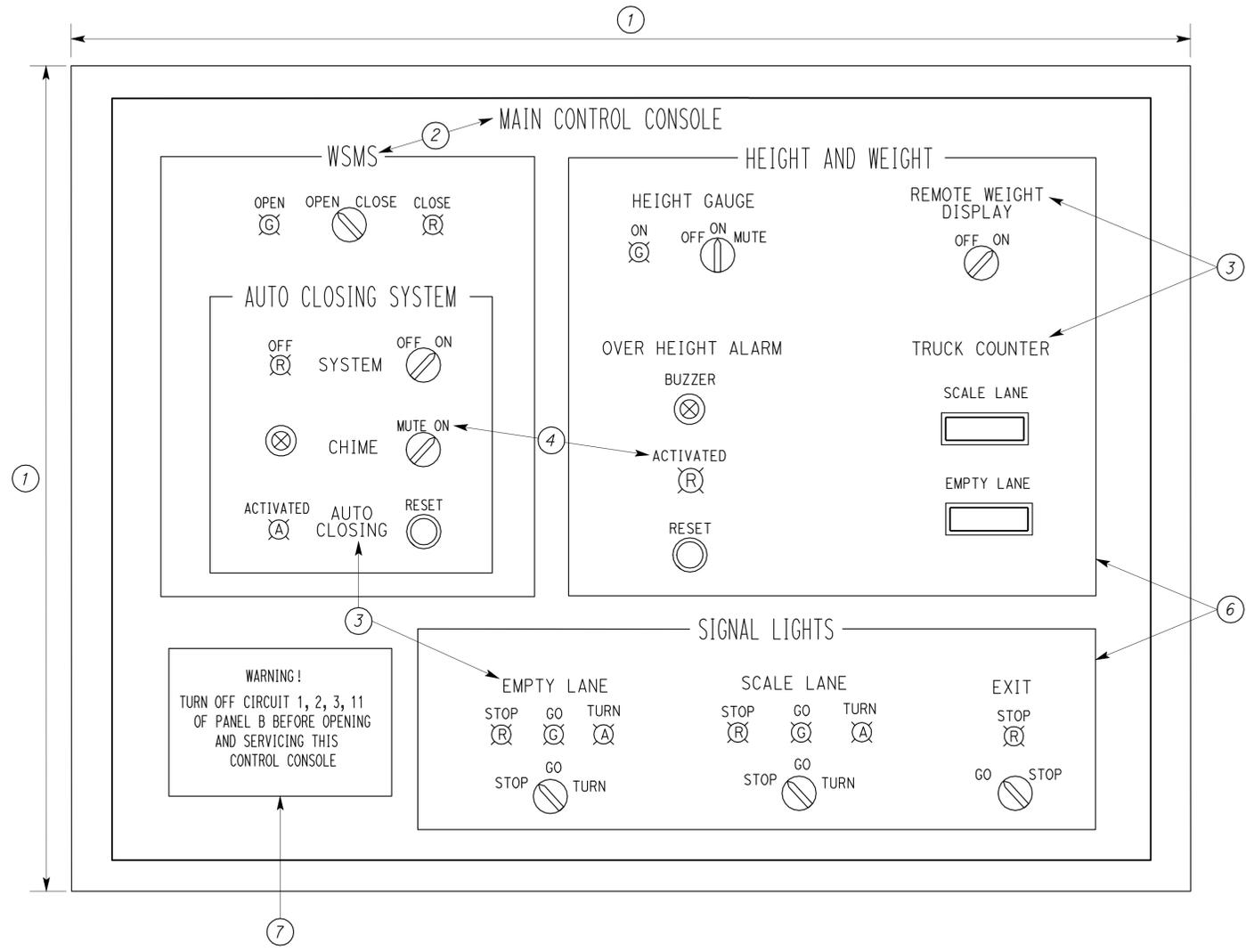
SANTA NELLA WEIGH STATION UPGRADE
PUBLIC ADDRESS SYSTEM SCHEMATIC DIAGRAM

SHEET EE1-9 OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	57	76
CATALINO A. ENRIQUEZ REGISTERED ELECTRICAL ENGINEER DATE 12-08-10					
12-5-11 PLANS APPROVAL DATE					
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CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 04-27-11

- Notes:*
- ① Size to fit all required devices.
 - ② Inscription of 1/2" high letters-Typical.
 - ③ Inscription of 1/4" high letters-Typical.
 - ④ Inscription of 3/16" high letters-Typical.
 - ⑤ Two color beveled edge laminated phenolic plate glued on the entirety of panel face.
 - ⑥ Line inscription on plate-Typical.
 - ⑦ Warning plate with 1/4" white letter on red background.



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <u>C. A. Enriquez</u> CHECKED <u>J. S. Sandhu</u> DETAILS BY <u>Dali Zhou</u> CHECKED <u>C. A. Enriquez</u> QUANTITIES BY <u>C. A. Enriquez</u> CHECKED <u>J. S. Sandhu</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE1-10	
			POST MILE R23.5	SOUTHBOUND	MAIN CONTROL CONSOLE		
			UNIT 3596 PROJECT NUMBER & PHASE 10000002331				REVISION DATES (PRELIMINARY STAGE ONLY) 3/8/10 5/18/10 11/17/10 12/8/10
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF		07-DEC-2011 13:20 ee1_10.dgn	

CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 04-27-11

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	60	76

Catalino A. Enriquez 12-08-10
 REGISTERED ELECTRICAL ENGINEER DATE

12-5-11
 PLANS APPROVAL DATE

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MAIN: 100 AMPERE LUGS
 VOLTS: 120/240 V, 1Ø, 3 WIRE

(E) PANEL A

FEEDER SIZE: 2" C, 3#1
 LOCATION: SOUTHBOUND SCALE HOUSE

DESCRIPTION	AMPERES		BRK	CKT	A	C	CKT	BRK	AMPERES		DESCRIPTION
	A	C							A	C	
LIGHTS	6		20/1	1	•		2	20/1	6		RECEPTACLES
TEL BOOTH		2	20/1	3		•	4	20/1		6	RECEPTACLES
SPARE	-		15/1	5	•		6	20/1	12.5		WATER HEATER
YARD LIGHTS AND SIGN LIGHTS		10	30/2	7	•		8	30/2		6	HIGHWAY LIGHTING
	10			9	•	10	6				
WALL HEATER		16	30/2	11	•		12	20/1		4	OUTSIDE STATION LIGHTS
	16			13	•	14	1		SECURITY ALARM SYSTEM		
AIR CONDITIONING		12	30/2	15	•		16	20/1		7.2	SUMP PUMP
	12			17	•	18	-		SPARE		
RESTROOM HEATER		10	20/1	19	•		20	30/2		-	
POWER OUTLET	5		30/1	21	•		22	20/1	1		CCTV
WIM		2	20/1	23	•		24	20/1		2	WIM

A	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
76	78	

A	C	TOTAL DEMAND (AMPERES PER PHASE)**
64	66	

** WALL HEATER AND AIR CONDITIONING UNIT ARE NON-COINCIDING LOAD

MAIN: 100 A/2P CB
 VOLTS: 120/240 V, 1Ø, 3-WIRE

PANEL B

FEEDER SIZE: 1/2" C, 3#1, 1#6G
 LOCATION: SOUTHBOUND SCALE HOUSE

DESCRIPTION	AMPERES		BRK	CKT	A	C	CKT	BRK	AMPERES		DESCRIPTION
	A	C							A	C	
HEIGHT CONTROL	2		20/1	1	•		2	20/1**	6		WEIGHT STATION MESSAGE SIGN
LANE SIGNAL LIGHTS		2	20/1	3	•		4	20/1*		4	MULTI OUTLET NO. 1
CCTV	3		20/1	5	•		6	20/1*		4	MULTI OUTLET NO. 2
SPARE		-	20/1	7	•		8	20/1*		4	MULTI OUTLET NO. 3
SPARE	-		20/1	9	•		10	20/1	-		SPARE
PA AND WEIGHT SYSTEM		3	20/1	11	•		12	20/1	-		SPARE

* GFCI CIRCUIT BREAKER (6 MILLIAMPERE)
 ** GFCI CIRCUIT BREAKER (30 MILLIAMPERE)

A	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
15	13	

DESIGN BY <u>C. A. Enriquez</u> CHECKED <u>J. S. Sandhu</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 39W0002R/L	SANTA NELLA WEIGH STATION UPGRADE	SOUTHBOUND	PANEL SCHEDULE	SHEET EE1-13
DETAILS BY <u>Dali Zhou</u> CHECKED <u>C. A. Enriquez</u>		ELECTRICAL-MECHANICAL-WATER AND	POST MILE R23.5				
QUANTITIES BY <u>C. A. Enriquez</u> CHECKED <u>J. S. Sandhu</u>		WASTEWATER DESIGN					
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3596 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 8/20/08 3/13/10 5/18/10 12/8/10	SHEET OF		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	61	76

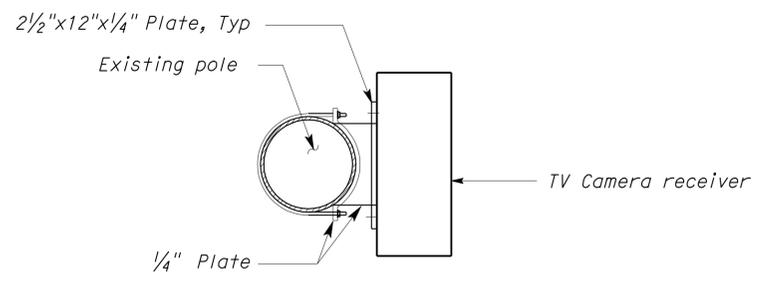
<i>Catalino A. Enriquez</i> REGISTERED ELECTRICAL ENGINEER		12-08-10 DATE
PLANS APPROVAL DATE		

12-5-11 PLANS APPROVAL DATE

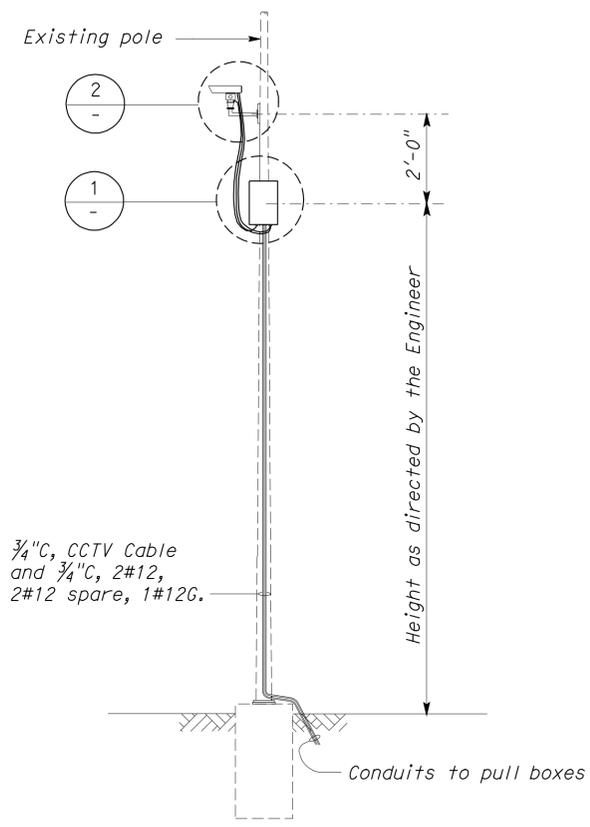
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CALIFORNIA STATE FIRE MARSHAL APPROVED
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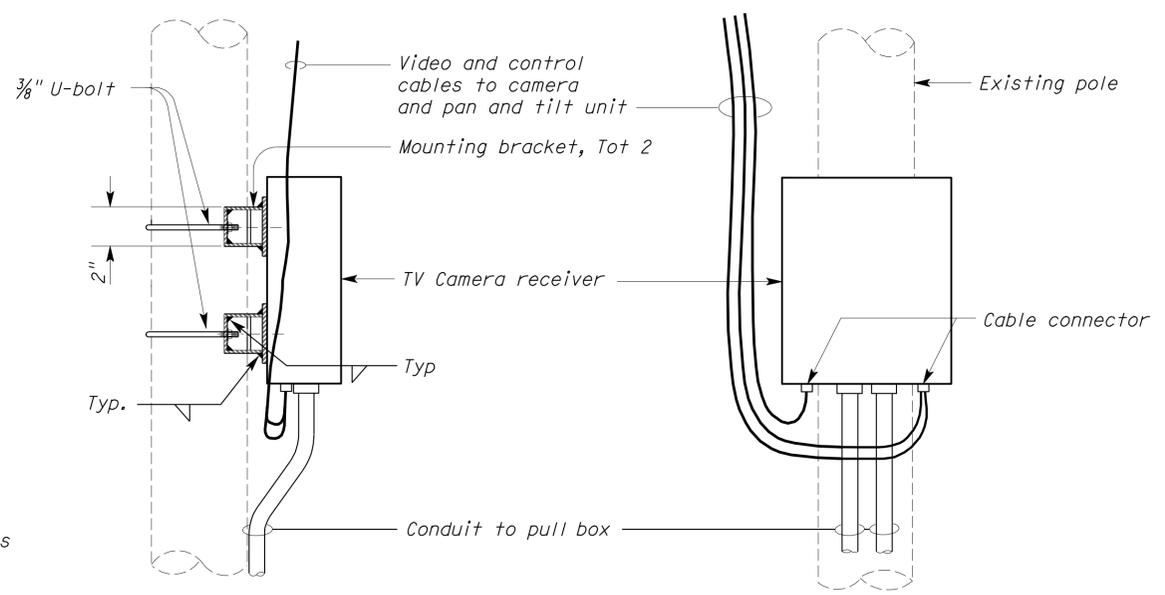
Reviewed by: *Polly Parenti*
POLLY PARENTI
 Approval date: 04-27-11



TOP VIEW



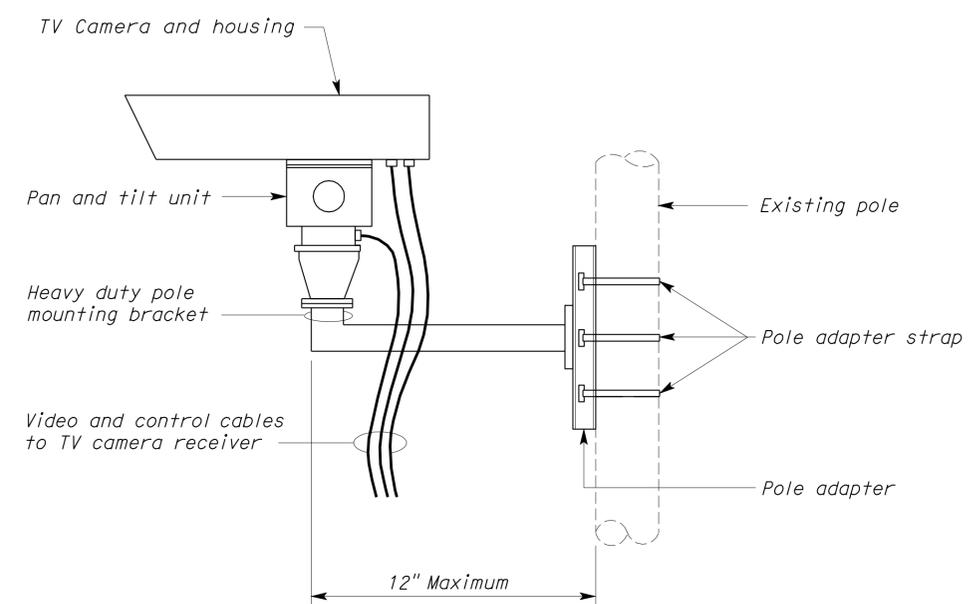
A CCTV CAMERA INSTALLATION
NO SCALE



SIDE VIEW

FRONT VIEW

1 CCTV CAMERA RECEIVER MOUNTING DETAILS
NO SCALE



2 CCTV CAMERA MOUNTING DETAILS
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

TAEMWW Imperial Rev. 7/10	DESIGN BY <i>C. A. Enriquez</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. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET
	DETAILS BY <i>Dali Zhou</i> CHECKED <i>C. A. Enriquez</i>		PROJECT NUMBER & PHASE 1000002331	SOUTHBOUND	POLE MOUNTED CCTV CAMERA DETAILS		EE1-14
	QUANTITIES BY <i>C. A. Enriquez</i> CHECKED <i>J. S. Sandhu</i>		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT 3596 PROJECT NUMBER & PHASE 1000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 8/24/08 9/17/08 5/14/10 12/8/10	

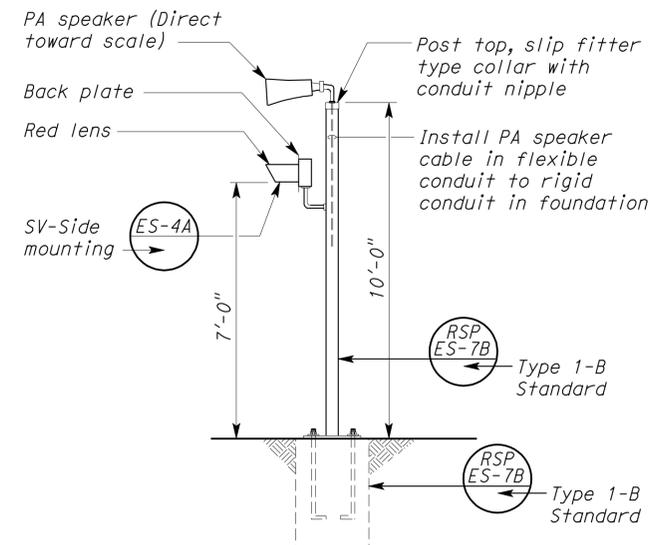
07-DEC-2011 13:20 ee1_14.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	62	76

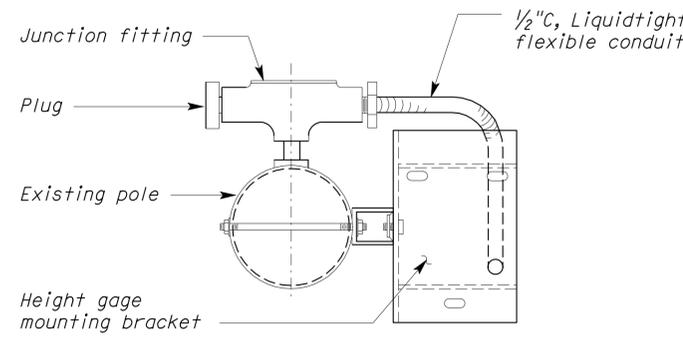
Catalino A. Enriquez REGISTERED ELECTRICAL ENGINEER No. 16944 Exp. 6-30-13 ELEC STATE OF CALIFORNIA		12-08-10 DATE
12-5-11 PLANS APPROVAL DATE		

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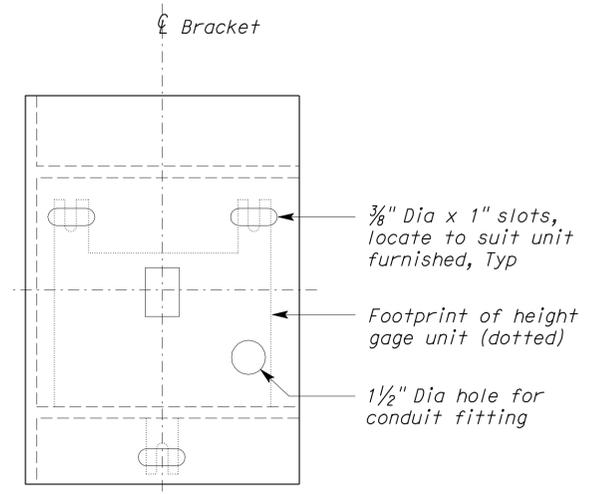
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 04-27-11



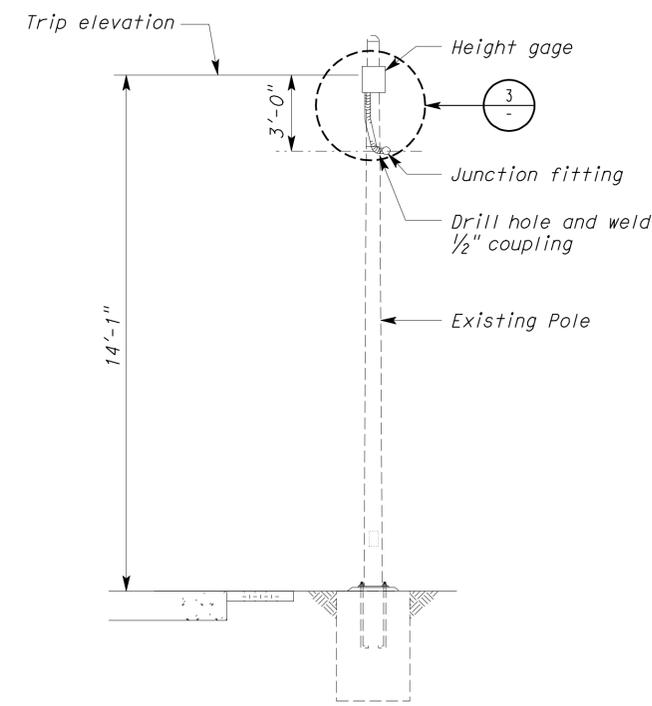
1 EXIT SIGNAL AND SPEAKER POLE
 NO SCALE



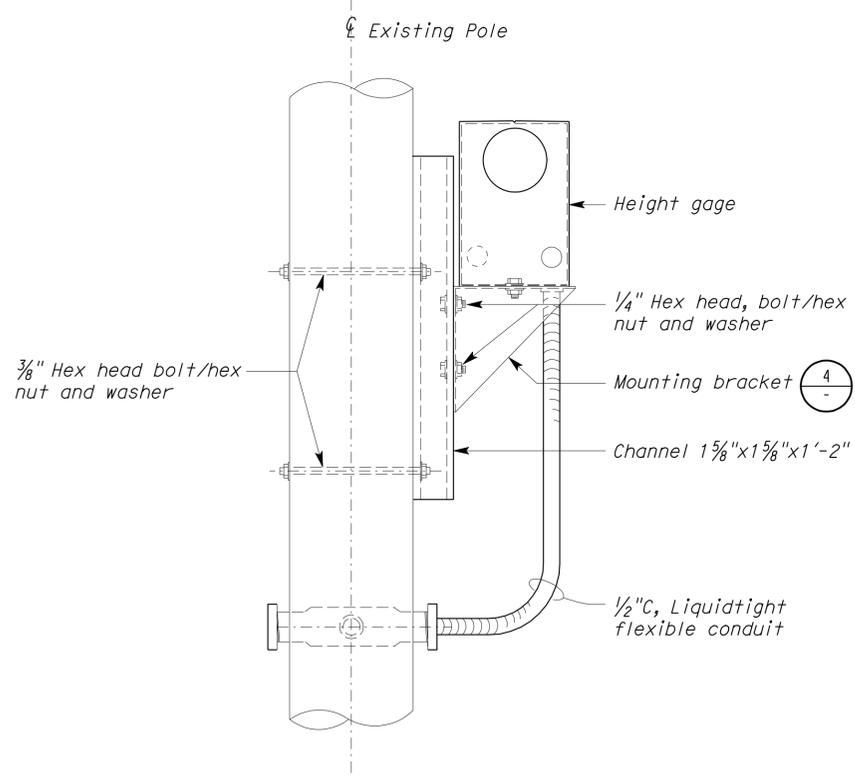
TOP VIEW
 NO SCALE



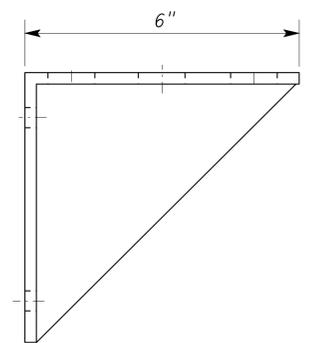
TOP VIEW



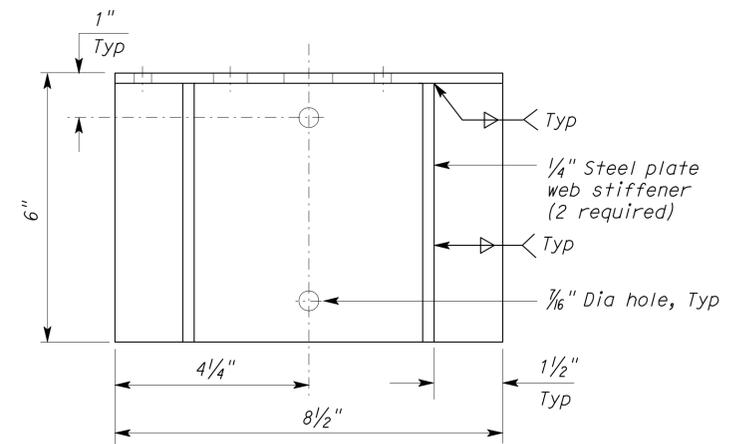
2 HEIGHT GAGE ASSEMBLY
 NO SCALE
 (RECEIVER POLE SHOWN. TRANSMITTER POLE SIMILAR)



3 AUTOMATIC HEIGHT GAGE
 NO SCALE
 (TRANSMITTER SIDE SHOWN. RECEIVER SIDE SIMILAR)



ELEVATION



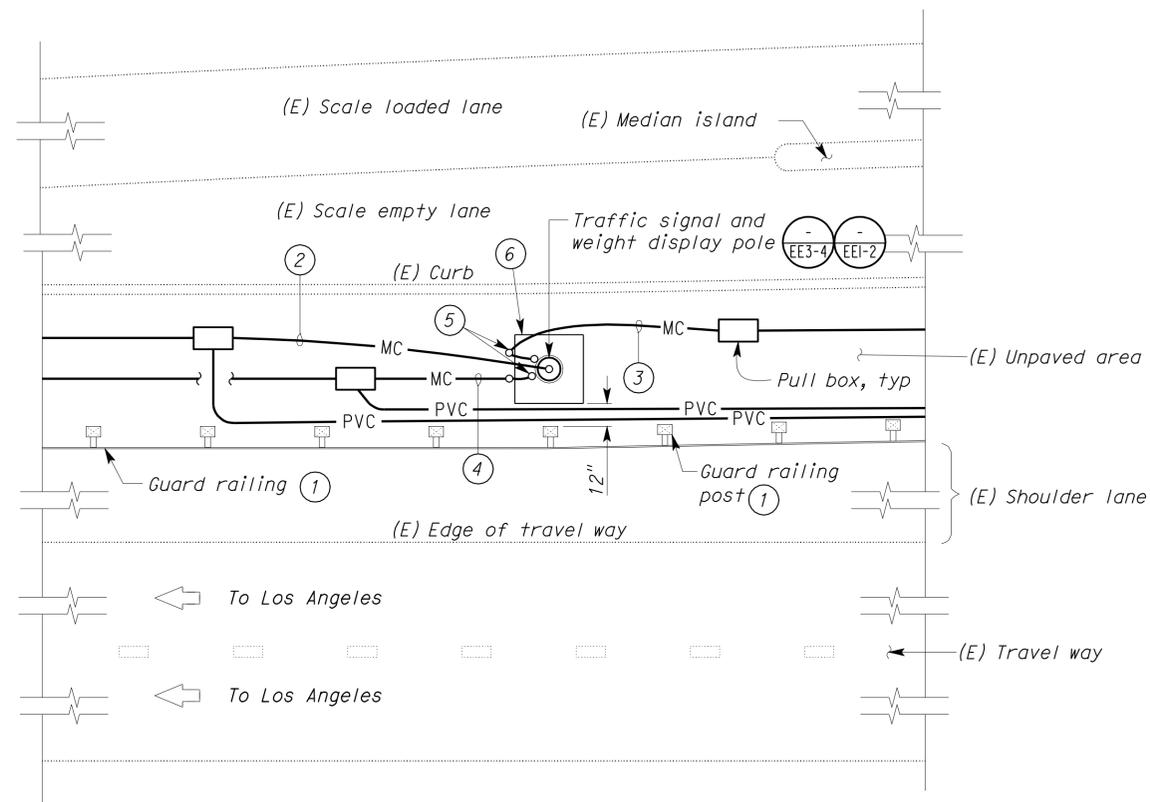
SIDE ELEVATION

4 MOUNTING BRACKET DETAIL
 NO SCALE
 (GALVANIZED AFTER FABRICATION. MATERIAL: 1/4" STEEL PLATE, HOT DIP)

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DESIGN BY <u>C. A. Enriquez</u> CHECKED <u>J. S. Sandhu</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE1-15
			POST MILE R23.5	SOUTHBOUND HEIGHT GAGE AND SPEAKER POLE DETAILS		
DETAILS BY <u>Ed D. Tapalla 4/10</u> CHECKED <u>C. A. Enriquez</u>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3596 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY <u>C. A. Enriquez</u> CHECKED <u>J. S. Sandhu</u>			3/18/10 5/18/10 12/8/10		SHEET	OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	63	76
Reviewed by: <i>Polly Parenti</i> POLLY PARENTI Approval date: 04-27-11			APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.		
Registered Electrical Engineer <i>Catalino A. Enriquez</i> No. 16944 Exp. 6-30-13 ELEC STATE OF CALIFORNIA			12-08-10 DATE		
12-5-11 PLANS APPROVAL DATE					
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DETAIL
NO SCALE

GENERAL NOTES:

- A. Pull boxes and message sign pole and conduits as shown are diagrammatic and their location is approximate only. Exact location shall be dictated by physical condition on the field and shall be verified with the Engineer.
- B. Distance of speaker and exit poles from guard rail shall be similar as shown.
- C. For conduit and conductors continuation, see EE1-2.

NOTES:

- ① For guard railing installations, see District Civil sheets.
- ② 1" C, PVC coated RSC, 8#12 (Traffic signals), 3#12 (Remote weight display power), 2#12 spare, 1#12G.
- ③ 1" C, PVC coated RSC, remote weight display cable.
- ④ 1" C, PVC coated RSC, 2 speaker cable, 1#12G.
- ⑤ Typical exposed conduit stub-up. Install conduit stub-up and exposed conduit away from incoming traffic. For conduit support, use stainless steel strap.
- ⑥ CIDH Pile foundation.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN BY <i>C. A. Enriquez</i> CHECKED <i>J. S. Sandhu</i> DETAILS BY <i>Dali Zhou/Ed Tapalla</i> CHECKED <i>C. A. Enriquez</i> QUANTITIES BY <i>C. A. Enriquez</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. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE1-16	
			POST MILE R23.5	SOUTHBOUND	ENLARGED PLAN		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT 3596 PROJECT NUMBER & PHASE 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES →		REVISION DATES (PRELIMINARY STAGE ONLY) 10/28/10 12/8/10	SHEET OF

GENERAL NOTES:

A. Existing pull boxes, underground electrical conduit and conductor system as shown are diagrammatic and their location as shown is approximate only. Therefore, field verify exact location of existing pull boxes, underground electrical conduit and conductor system prior to the beginning of trenching, excavation and removal work.

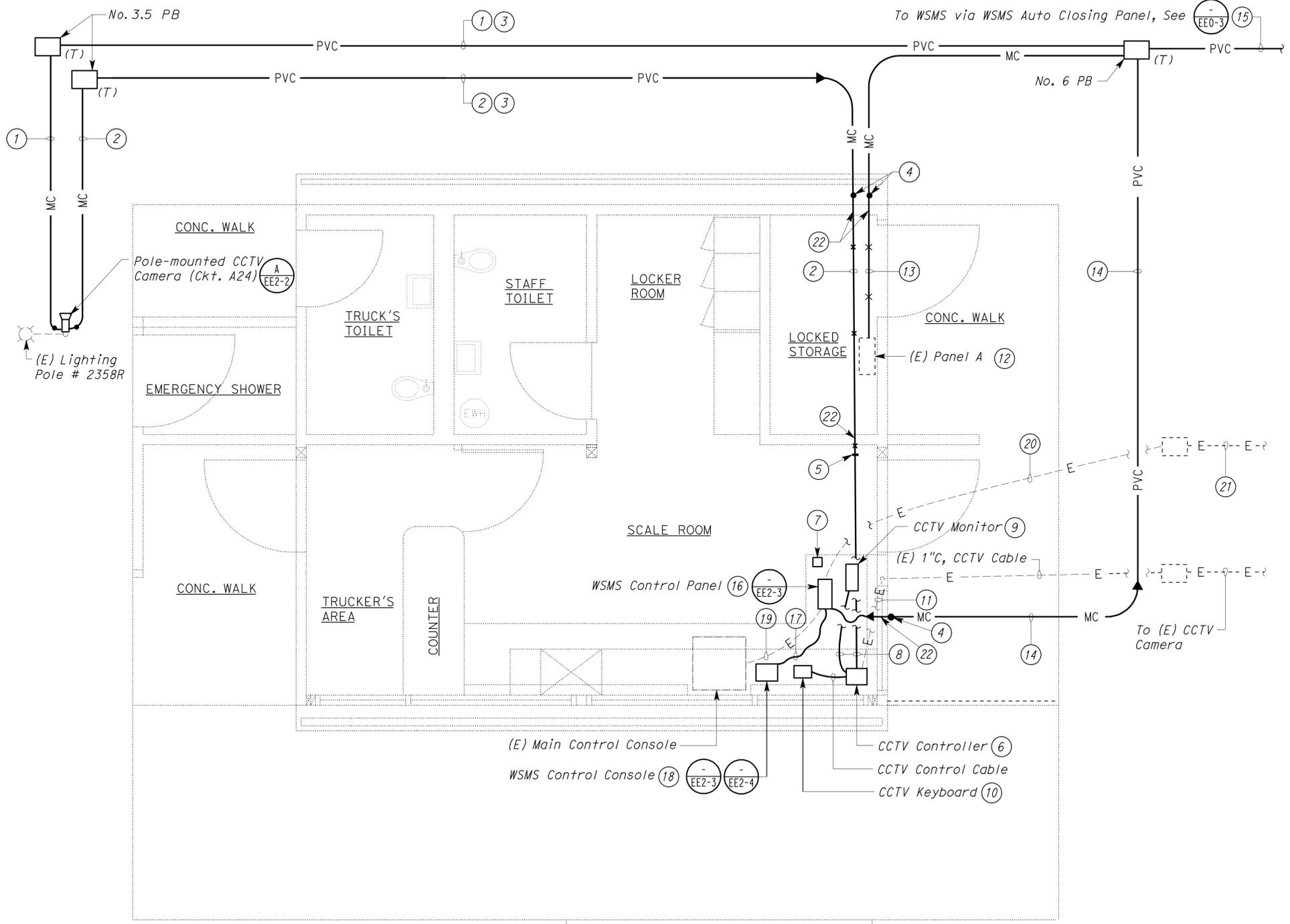
B. Not all existing conduits are shown. Contractor shall field verify the exact location of other existing conduits as required prior to the beginning of trenching, excavation and removal work.

C. The cost of all work in locating existing pull boxes, underground utilities, conduit and conductor system shall be paid for in the building lump sum contract price and no additional cost will be paid.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 04-27-11

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	64	76

<u>Catalino A. Enriquez</u> REGISTERED ELECTRICAL ENGINEER		12-08-10 DATE
12-5-11 PLANS APPROVAL DATE		
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NOTES:

- ① 3/4" C, 2#12 (CCTV Power), 2#12 spare, 1#12G.
- ② 3/4" C, CCTV cable.
- ③ Route conduit under unpaved area.
- ④ Install conduit body.
- ⑤ End of conduit and transition of CCTV cable to exposed. Install conduit bushing.
- ⑥ Install CCTV controller at shelf above scale desk.
- ⑦ Existing CCTV transmitter and accessories- remove.
- ⑧ CCTV cable.
- ⑨ Replace existing CCTV monitor. Provide and install CCTV monitor mounting bracket. Install CCTV monitor on a bracket mounted and hanging from the ceiling.
- ⑩ Place CCTV keyboard at scale desk.
- ⑪ Existing CCTV cable. Existing CCTV camera was manufactured by COHU. Verify in the field the model of existing CCTV camera. Provide devices and accessories to ensure compatibility of the existing camera to the new CCTV controller and keyboard. Connect existing CCTV cable to the new CCTV controller.
- ⑫ Existing Panel A is a Square D, 225-ampere, 120/240 volt, 1-phase, 3-wire, catalog NQ0D30L225, Type NQ0D panelboard. Provide and install 1-pole circuit breaker with 20-ampere trip on circuit number 24. Provide and install 1-pole GFCI (30 milli-ampere) type circuit breaker with 20-ampere trip on circuit number 26, complete with load terminal lug that will allow termination of 1#6. Disconnect conductors connected to circuit breaker number 5 and insulate both ends of conductor. Label disconnected conductors as spare. Update panel directory.
- ⑬ 1/2" C, 2#12 and 2#12 spare (yard CCTV camera), 2#6 (WSMS 120-volt power), 1#8G.
- ⑭ 1 1/2" C, 2#12 (WSMS 120-volt power), 2#10 spare (WSMS), 5#10 (WSMS- control), 3#12 and 3#12 spare (WSMS auto closing panel- control), 1#10G.
- ⑮ 2" C, 2#6 (WSMS 120-volt power), 2#10 spare (WSMS), 5#10 (WSMS- control), 3#12 and 3#12 spare (WSMS auto closing panel- control), 1#8G.
- ⑯ Existing panel is 16-inch long, 12-inch wide, 8-inch deep. Replace existing panel with WSMS control panel.
- ⑰ 1" C, 13#12, 4#12 spare, 1#12G. Use liquidtight flexible metallic conduit and route inside cable trough.
- ⑱ Mount and screw on WSMS control console at scale desk. Verify exact mounting location with the Engineer.
- ⑲ (E) 3/4" C, 2#12 (circuit A5). Remove conductors and abandon conduit.
- ⑳ (E) 1" C, 5#12, 1#12G to existing changeable message sign. Remove conductors and abandon conduit.
- ㉑ (E) 1 1/2" C, 5#12 (changeable message sign), 4#8 (yard and highway lighting). Disconnect and insulate 5#12 and label them spare.
- ㉒ Core drill through existing wall. Seal around conduit or cable.

PLAN
 SCALE 1/2" = 1'-0"

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DESIGN BY <u>C. A. Enriquez</u> CHECKED <u>J. S. Sandhu</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE2-1
			POST MILE R23.5	SCALE HOUSE POWER AND COMMUNICATION PLAN		
DETAILS BY <u>Ed D. Tapalla 5/10</u> CHECKED <u>C. A. Enriquez</u>				REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY <u>C. A. Enriquez</u> CHECKED <u>J. S. Sandhu</u>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3596 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES			

07-DEC-2011 13:21 ee2_01.dgn

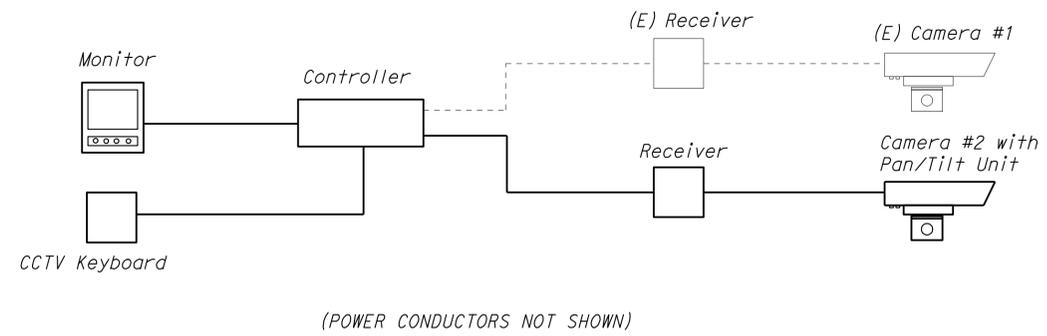
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	65	76

Catalino A. Enriquez
REGISTERED ELECTRICAL ENGINEER
DATE 12-08-10

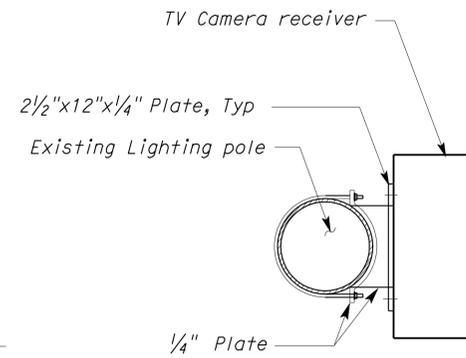


12-5-11
PLANS APPROVAL DATE
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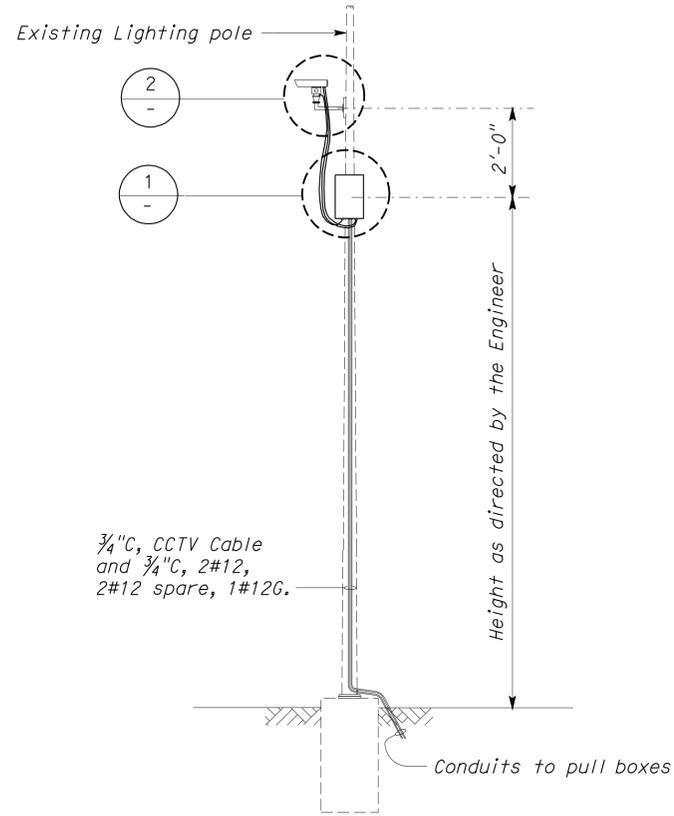
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Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 04-27-11



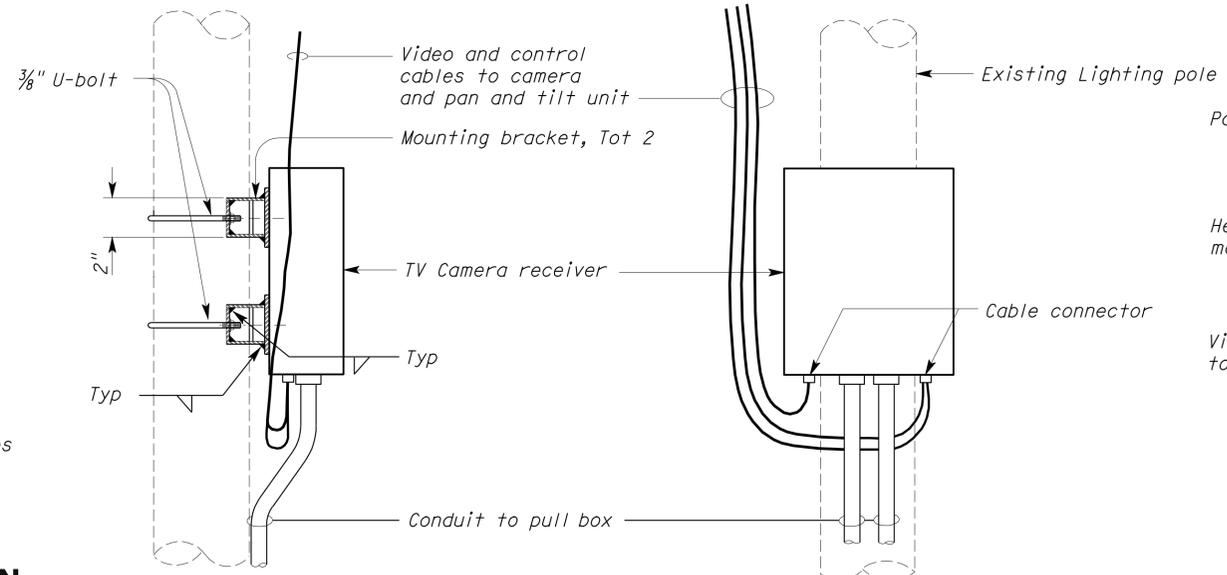
CCTV SYSTEM INTERCONNECTION DIAGRAM



TOP VIEW

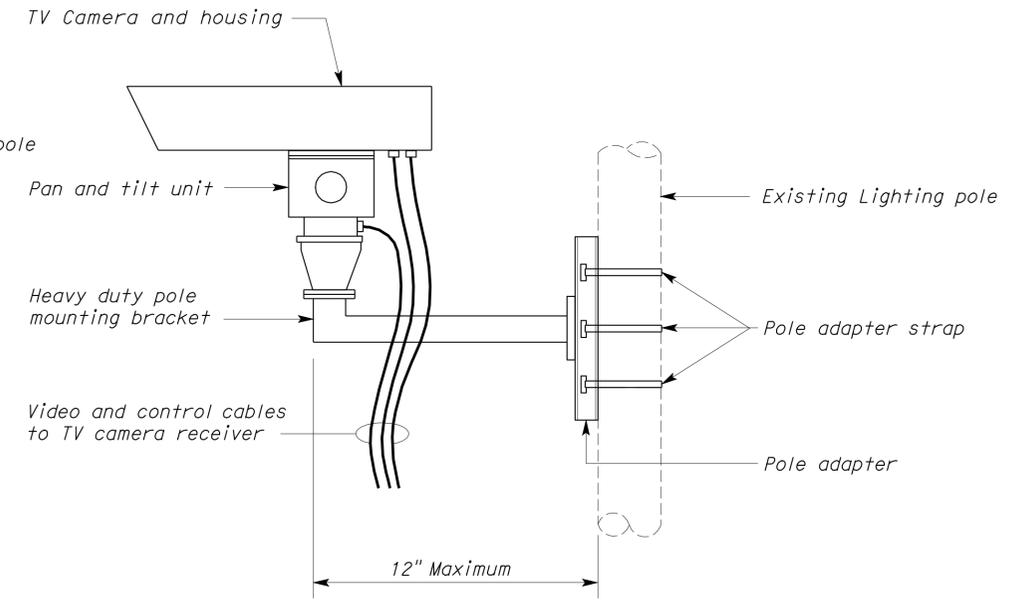


A CCTV CAMERA INSTALLATION
NO SCALE



SIDE VIEW

FRONT VIEW



2 CCTV CAMERA MOUNTING DETAILS
NO SCALE

1 CCTV CAMERA RECEIVER MOUNTING DETAILS
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

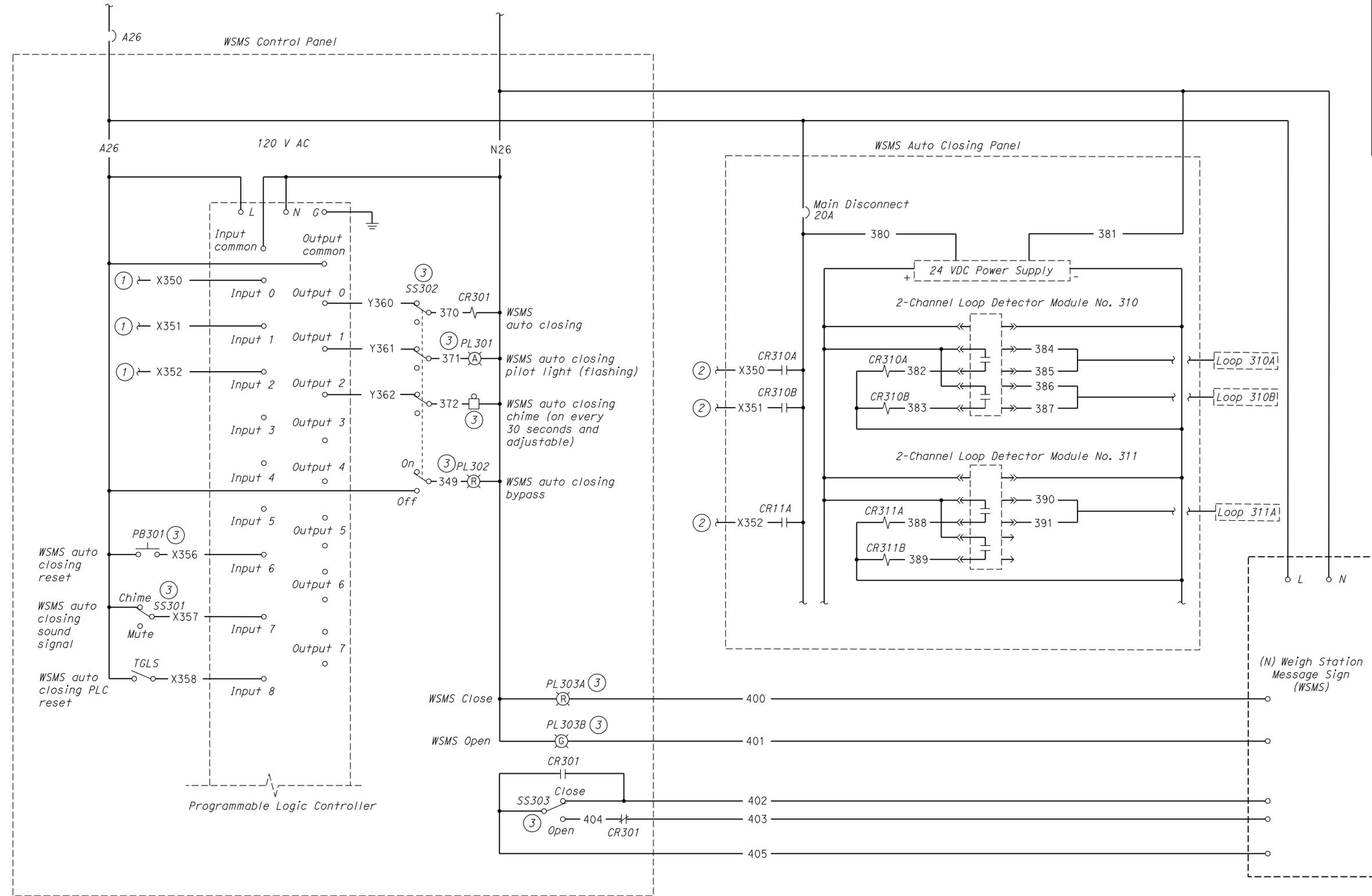
DESIGN BY <i>C. A. Enriquez</i> CHECKED <i>J. S. Sandhu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE2-2
			POST MILE R23.5	NORTHBOUND	POLE MOUNTED CCTV CAMERA DETAILS	
DETAILS BY <i>Dali Zhou</i> CHECKED <i>C. A. Enriquez</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3596 10000002331	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
QUANTITIES BY <i>C. A. Enriquez</i> CHECKED <i>J. S. Sandhu</i>			DISREGARD PRINTS BEARING EARLIER REVISION DATES	8/24/08 9/7/08 5/7/09 11/22/10 12/8/10		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	66	76

<i>Catalino A. Enriquez</i>		12-08-10
REGISTERED ELECTRICAL ENGINEER	DATE	

12-5-11	
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.



CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 04-27-11

- GENERAL NOTES:**
- A. All conductors either entering or leaving any enclosure or control panel shall terminate on labeled terminal blocks which are installed within the same enclosure. Label terminal block the same nomenclature assigned to the identification of terminating conductor.
 - B. Conductors shall be arranged inside any enclosure or control panel so that any piece of apparatus may be removed without disconnecting any conductors except the leads to that piece of apparatus.

- NOTES:**
- ① To WSMS auto closing panel.
 - ② To WSMS control panel.
 - ③ Install device on WSMS Control Console. See WSMS Control Console layout.

SCHEMATIC DIAGRAM

DESIGN	BY	C. A. Enriquez	CHECKED	J. S. Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE2-3	
	DETAILS	BY	Ed D. Tapalla 3/10	CHECKED			C. A. Enriquez	POST MILE	NORTHBOUND		WEIGH STATION MESSAGE SIGN CONTROL SCHEMATIC DIAGRAM
	QUANTITIES	BY	C. A. Enriquez	CHECKED			J. S. Sandhu	R23.5			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT PROJECT NUMBER & PHASE	3596 10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEMWW Imperial Rev. 7/10								7/18/08 3/15/10 5/18/10 11/16/10 12/8/10		OF	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	67	76

<i>Catalino A. Enriquez</i>		12-08-10
REGISTERED ELECTRICAL ENGINEER	DATE	

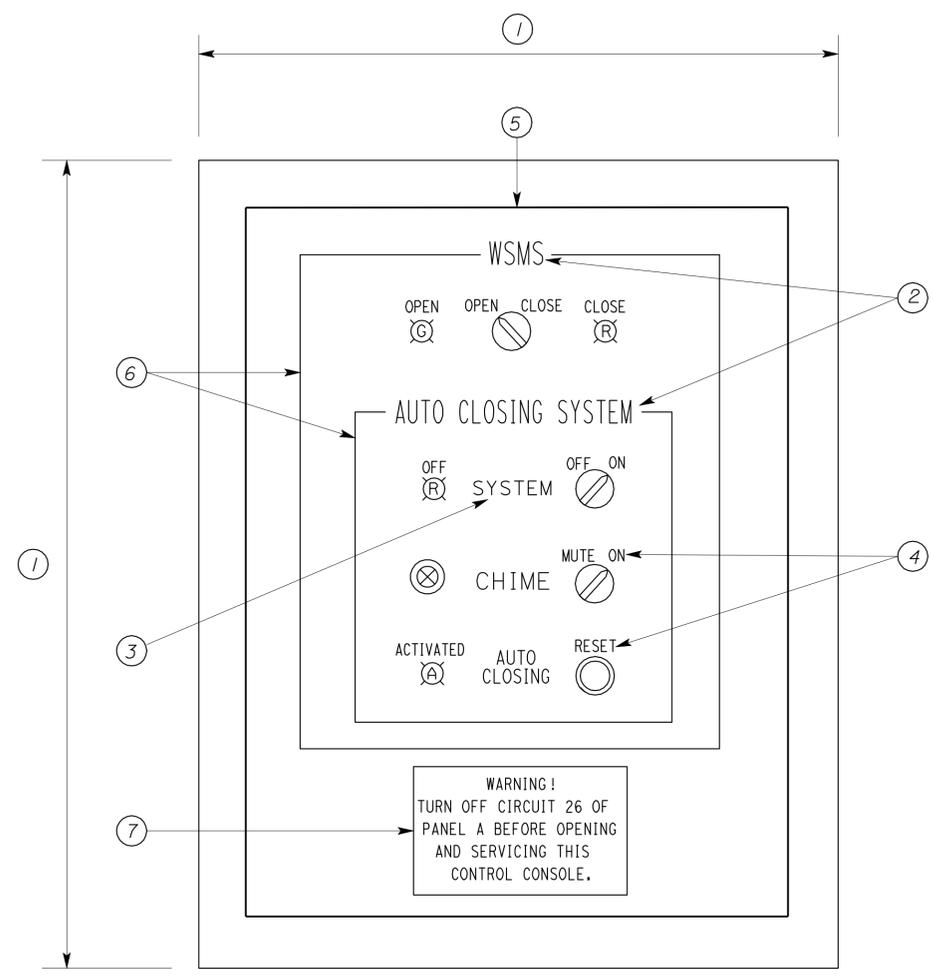
12-5-11	
PLANS APPROVAL DATE	

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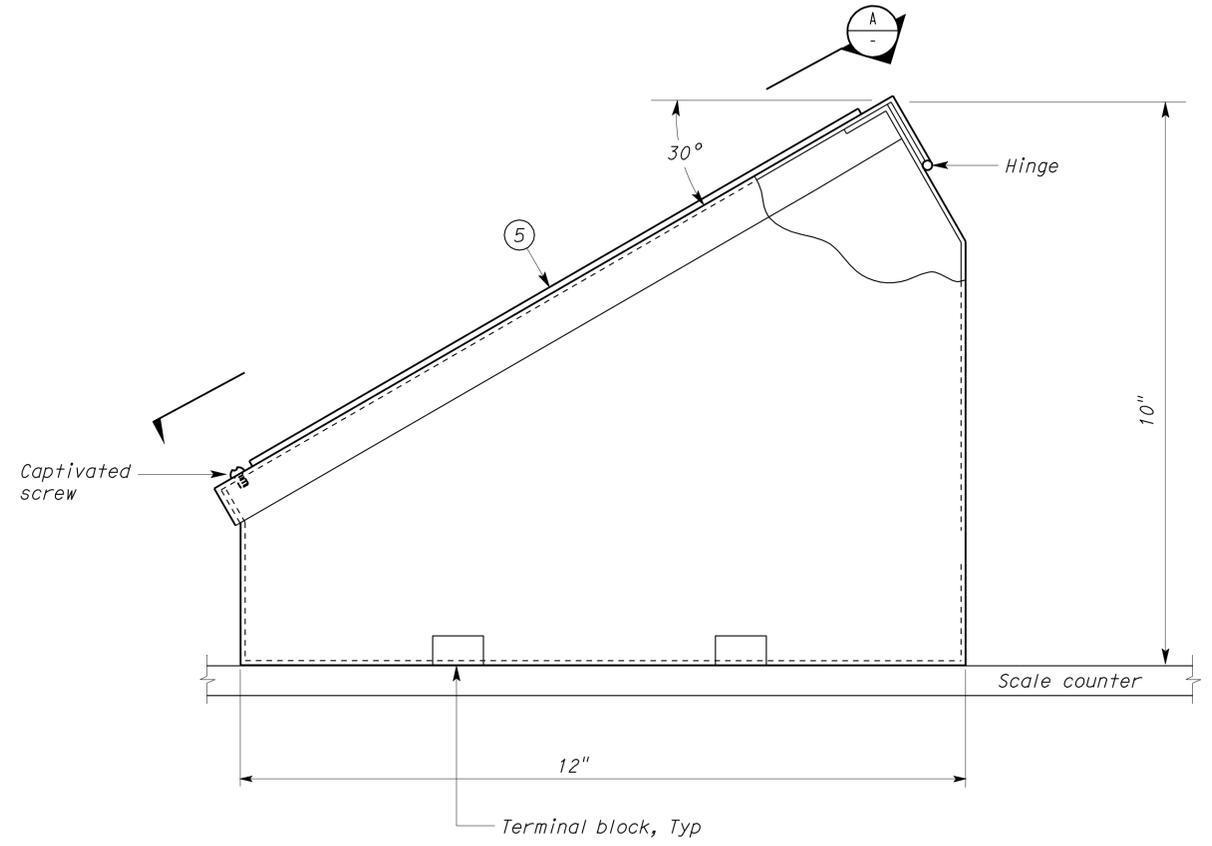


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 Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 04-27-11

- NOTES:**
- ① Size to fit all required devices.
 - ② Inscription of 1/2-inch high bold letters only-Typical.
 - ③ Inscription of 1/4-inch high letters-Typical.
 - ④ Inscription of 3/16-inch high letters-Typical.
 - ⑤ Two color beveled edge laminated phenolic plate glued on the entirety of panel face.
 - ⑥ Line inscription on plate-Typical.
 - ⑦ Warning plate with 1/4-inch high white letters on red background.



A WSMS CONTROL CONSOLE LAYOUT
 NO SCALE

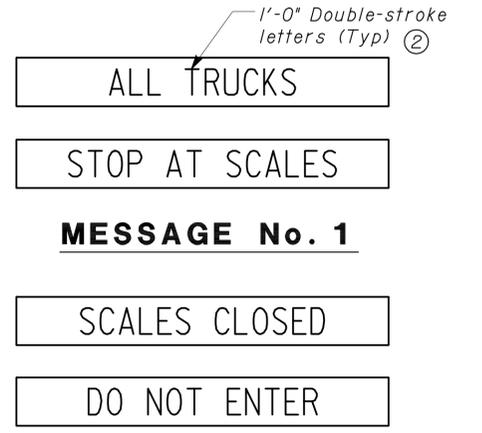
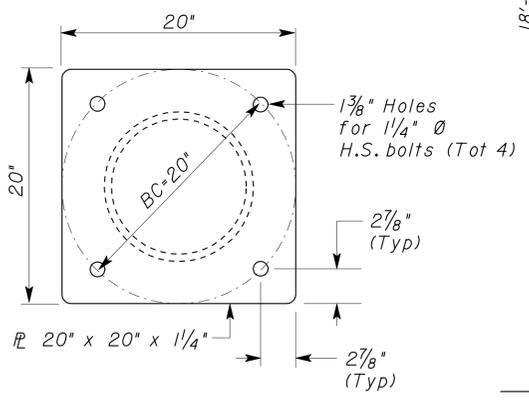
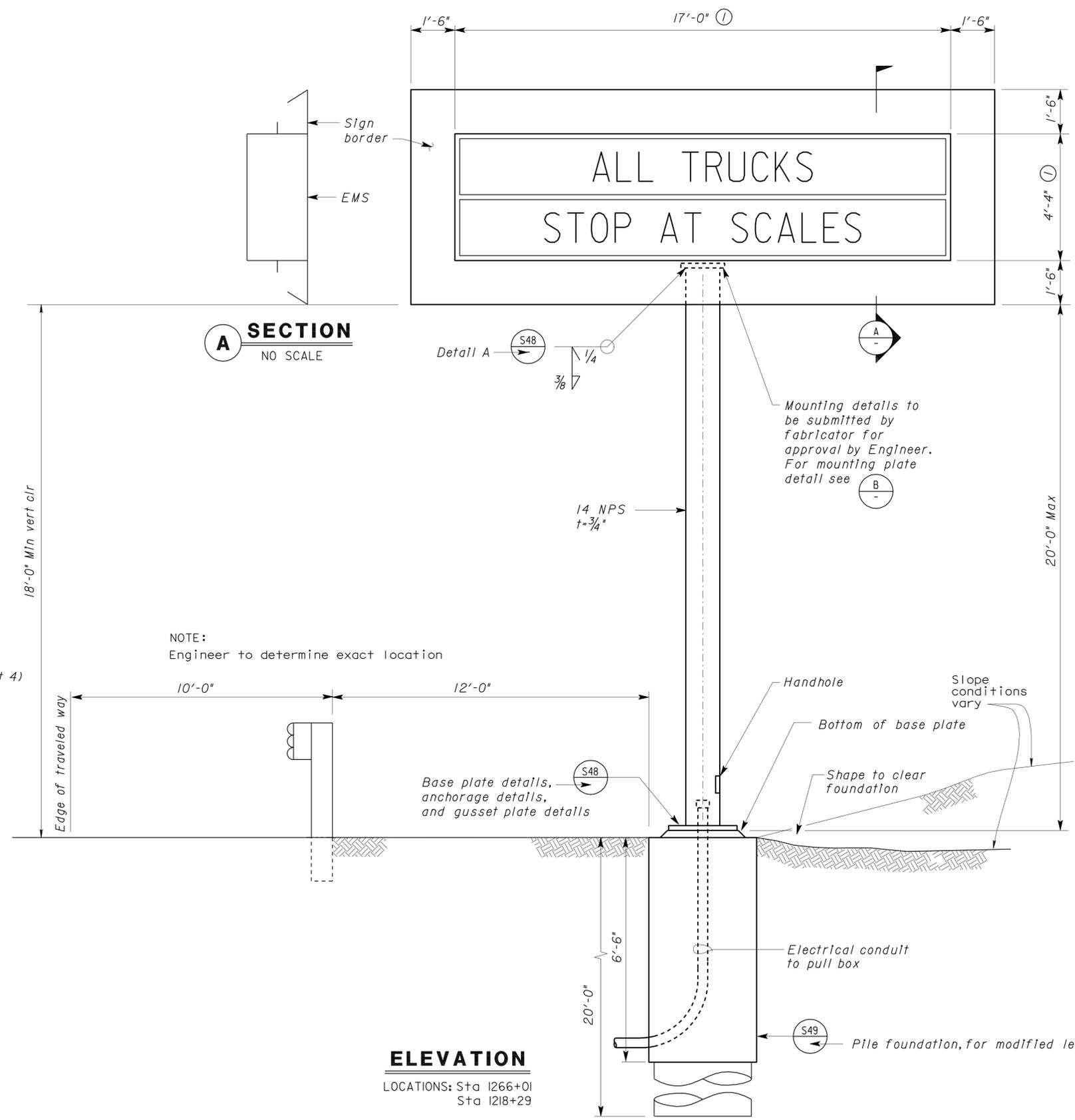


SIDE VIEW

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>C. A. Enriquez</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. 39W002R/L	SANTA NELLA WEIGH STATION UPGRADE		SHEET EE2-4				
			POST MILE R23.5	NORTHBOUND	WEIGH STATION MESSAGE SIGN CONTROL CONSOLE					
			REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF					
DETAILS BY <i>Dali Zhou</i> CHECKED <i>C. A. Enriquez</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3596 1000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	3/8/10	5/18/10	11/17/10				

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	5	23.1/24.0	68	76
			3-18-10	REGISTERED CIVIL ENGINEER DATE	
			12-5-11	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER ANDREW BUI No. C63560 Exp. 9/30/12 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



MESSAGE No. 1
MESSAGE No. 2
FREEWAY EMS MESSAGES

GENERAL NOTES:

A. For details not shown, see Standard Plans.

B. For sign location, see EE0-2 and EE0-4.

C. Specifications:

Design:
AASHTO Specifications for Structure Supports for Highway Signs, Luminaires and Traffic Signals, dated 2001.

Loading:
Normal to the face the sign: 40.3 PSF on 100% truss surface area (i.e. 100% panel coverage).
Transverse to face of sign: 20% of normal force.

- NOTES:**
- ① Approximate dimensions shown. The projected sign face area shall not exceed the area shown by more than 10%. Actual size shall be submitted to provide proportionate layout of messages.
 - ② Size of letters is the actual viewable size. Pixel size can be smaller.
 - ③ Provide slope protection at pole base.

PLAN VIEW
SIGN MOUNTING PLATE

ELEVATION
LOCATIONS: Sta 1266+01
Sta 1218+29

BRANCH CHIEF *Jeffrey B. Woody*

DESIGN	BY A R DUDSAK	CHECKED A BUI
DETAILS	BY D W JUSTICE Jr	CHECKED A BUI
QUANTITIES	BY J DATILES	CHECKED A BUI

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH

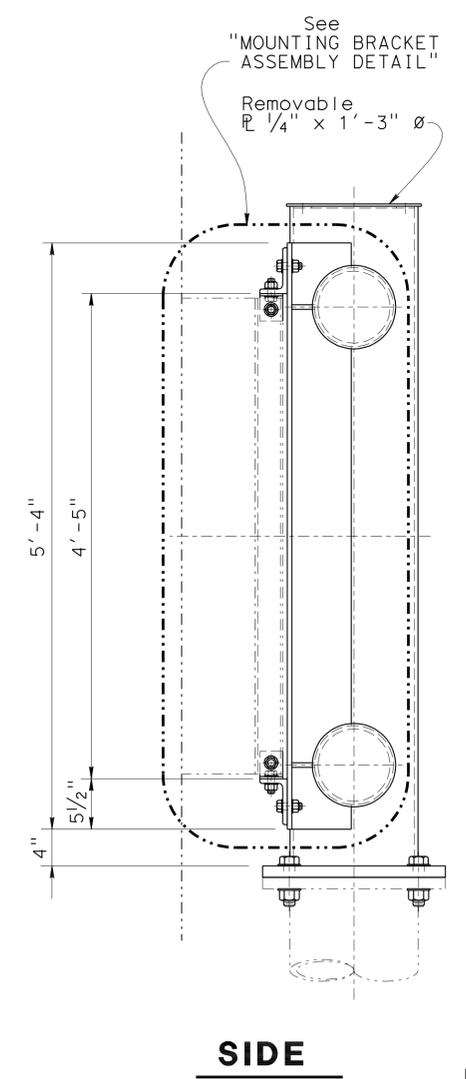
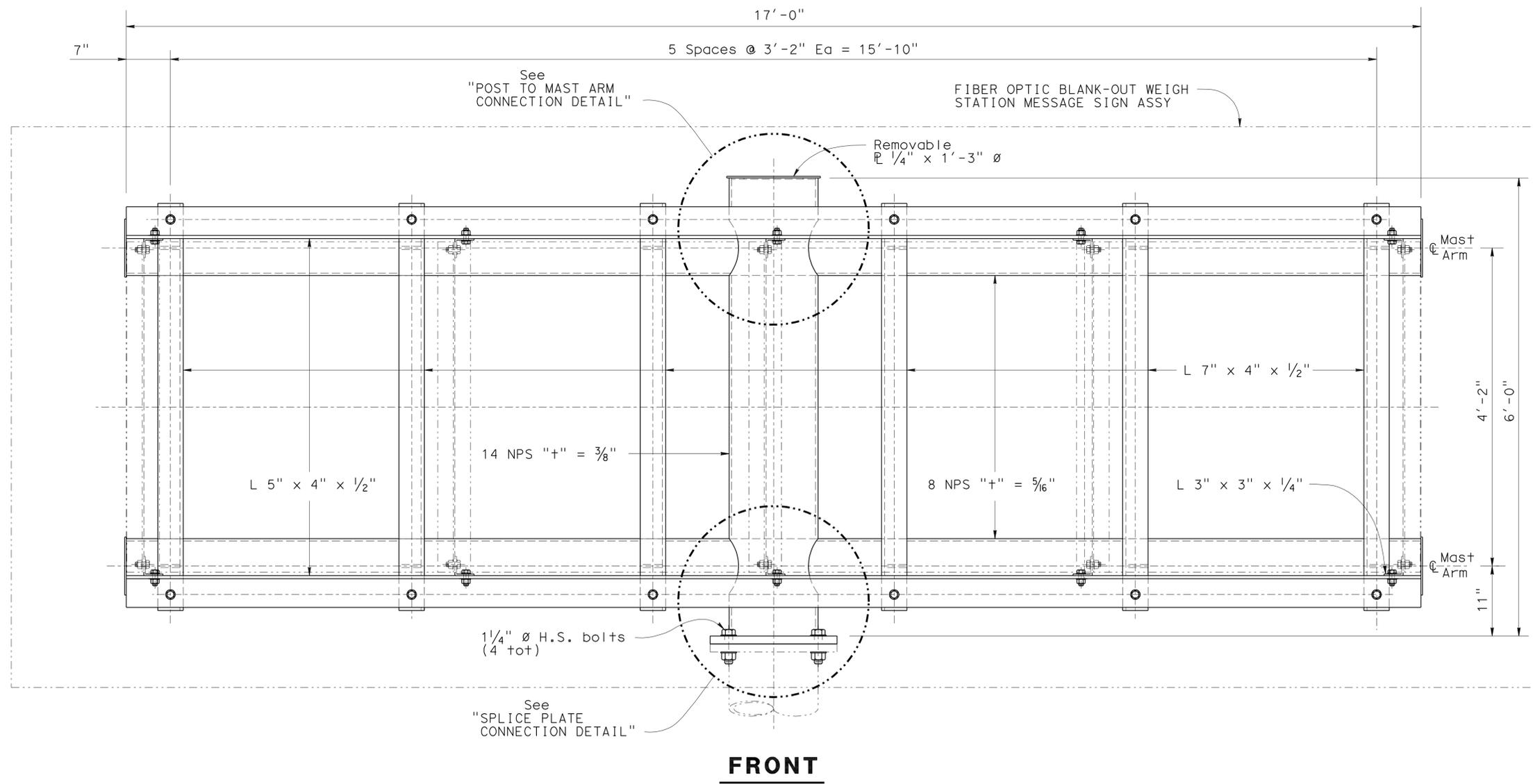
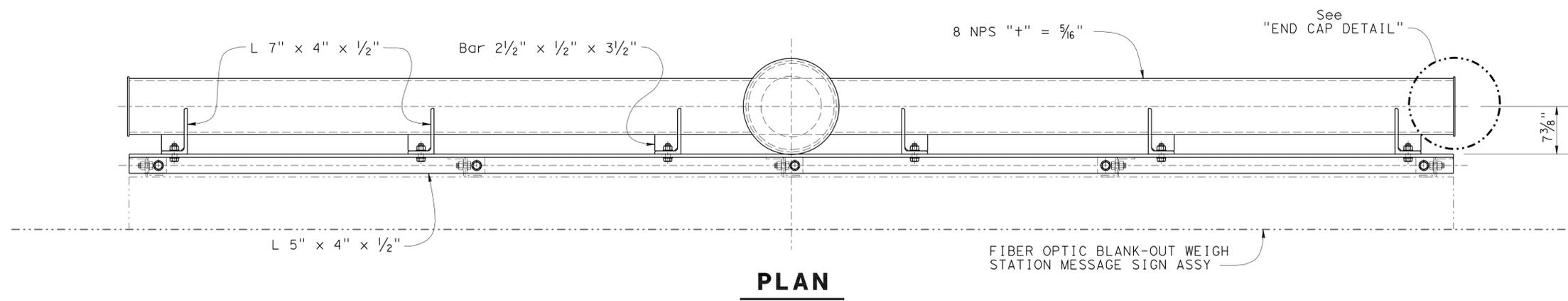
BRIDGE NO.	N/A
POST MILE	23.5

SANTA NELLA WEIGH STATION UPGRADE
ELEVATION LAYOUT

SD-1
EE3-1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	5	23.1/24.0	69	76

REGISTERED CIVIL ENGINEER DATE 3-18-10
 REGISTERED CIVIL ENGINEER ANDREW BUI
 No. C63560
 Exp. 9/30/12
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 12-5-11
 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.



BRANCH CHIEF *Jeffrey B. Woody*

DESIGN	BY A R DUDSAK	CHECKED A BUI
DETAILS	BY D W JUSTICE Jr	CHECKED A BUI
QUANTITIES	BY J DATILES	CHECKED A BUI

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH **A**

BRIDGE NO.	N/A
POST MILE	23.5

SANTA NELLA WEIGH STATION UPGRADE
WEIGH STATION MESSAGE SIGN LAYOUT

SD-2
EE3-2

(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3620
PROJECT NUMBER & PHASE 10000002331

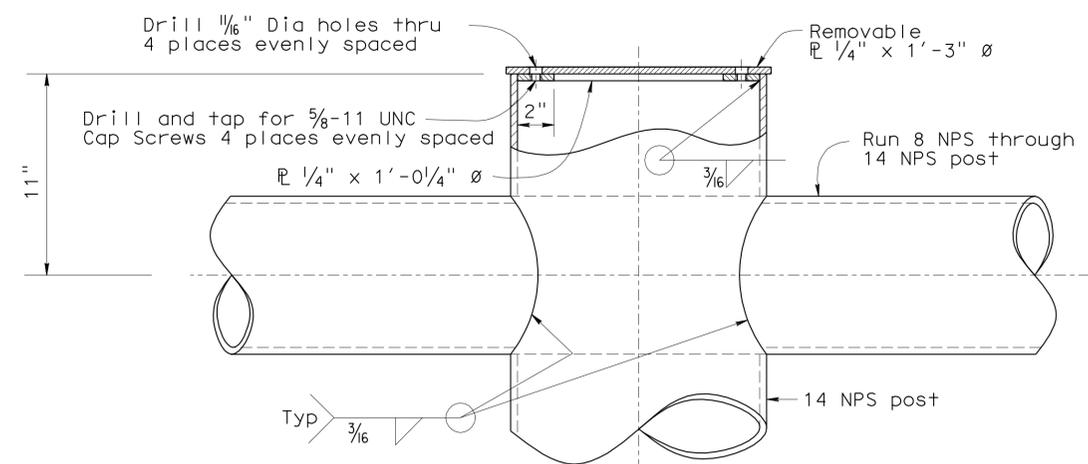
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3/3/10 11-18-10 11-22-10	2	5

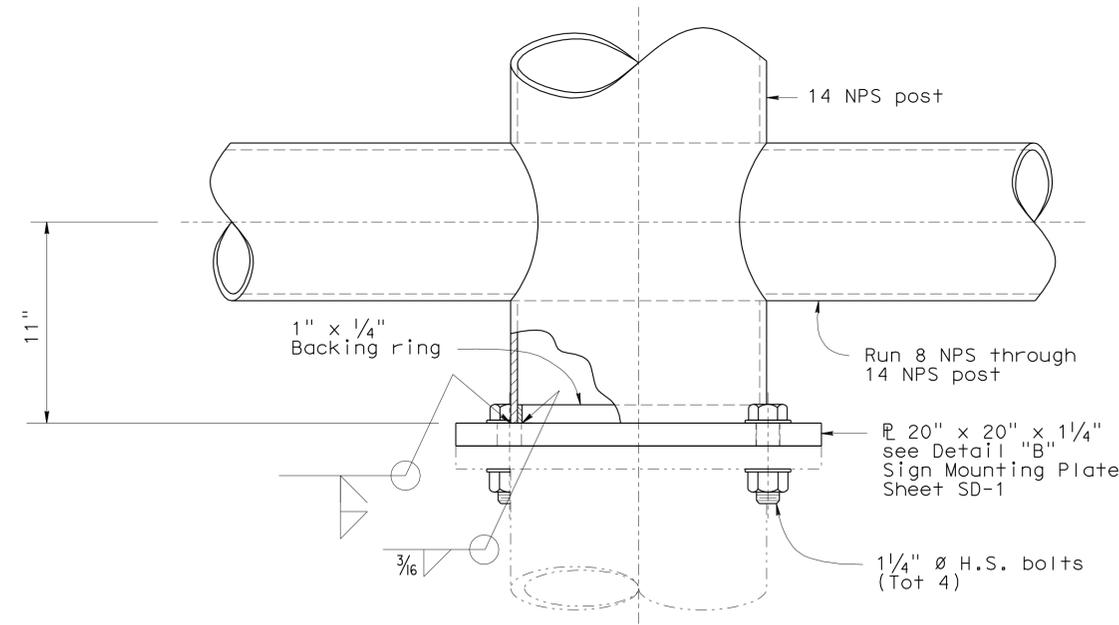
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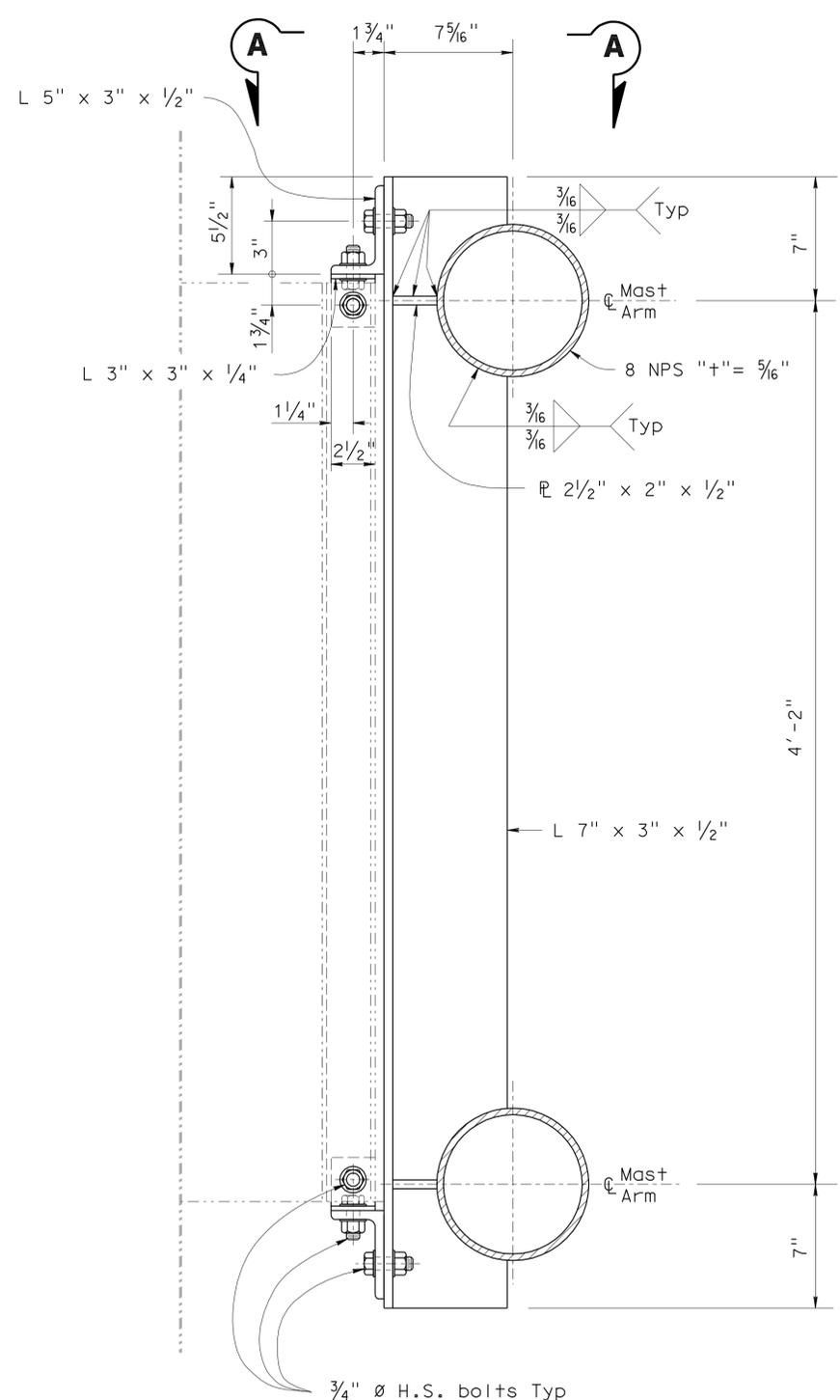
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10	Mer	5	23.1/24.0	70	76
			3-18-10	REGISTERED CIVIL ENGINEER DATE	
			12-5-11	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER ANDREW BUI No. C63560 Exp. 9/30/12 CIVIL STATE OF CALIFORNIA		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



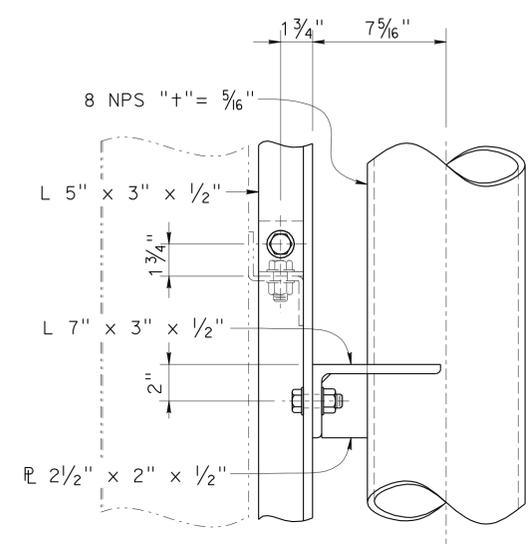
**POST TO MAST ARM
CONNECTION DETAIL**



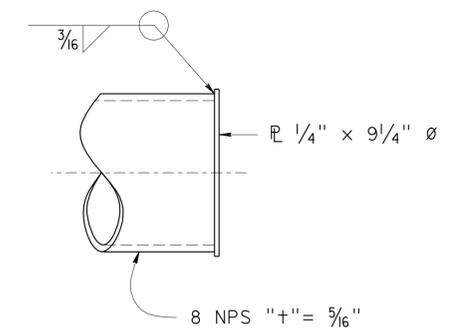
**SPLICE PLATE
CONNECTION DETAIL**



MOUNTING BRACKET ASSEMBLY DETAIL



SECTION A-A



END CAP DETAIL

BRANCH CHIEF *Jeffrey B. Woody*

DESIGN	BY A R DUDSAK	CHECKED A BUI
DETAILS	BY D W JUSTICE Jr	CHECKED A BUI
QUANTITIES	BY J DATILES	CHECKED A BUI

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH **A**

BRIDGE NO.	N/A
POST MILE	23.5

SANTA NELLA WEIGH STATION UPGRADE
MESSAGE SIGN MOUNTING DETAILS

SD-3

EE3-3

(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3620
PROJECT NUMBER & PHASE 10000002331

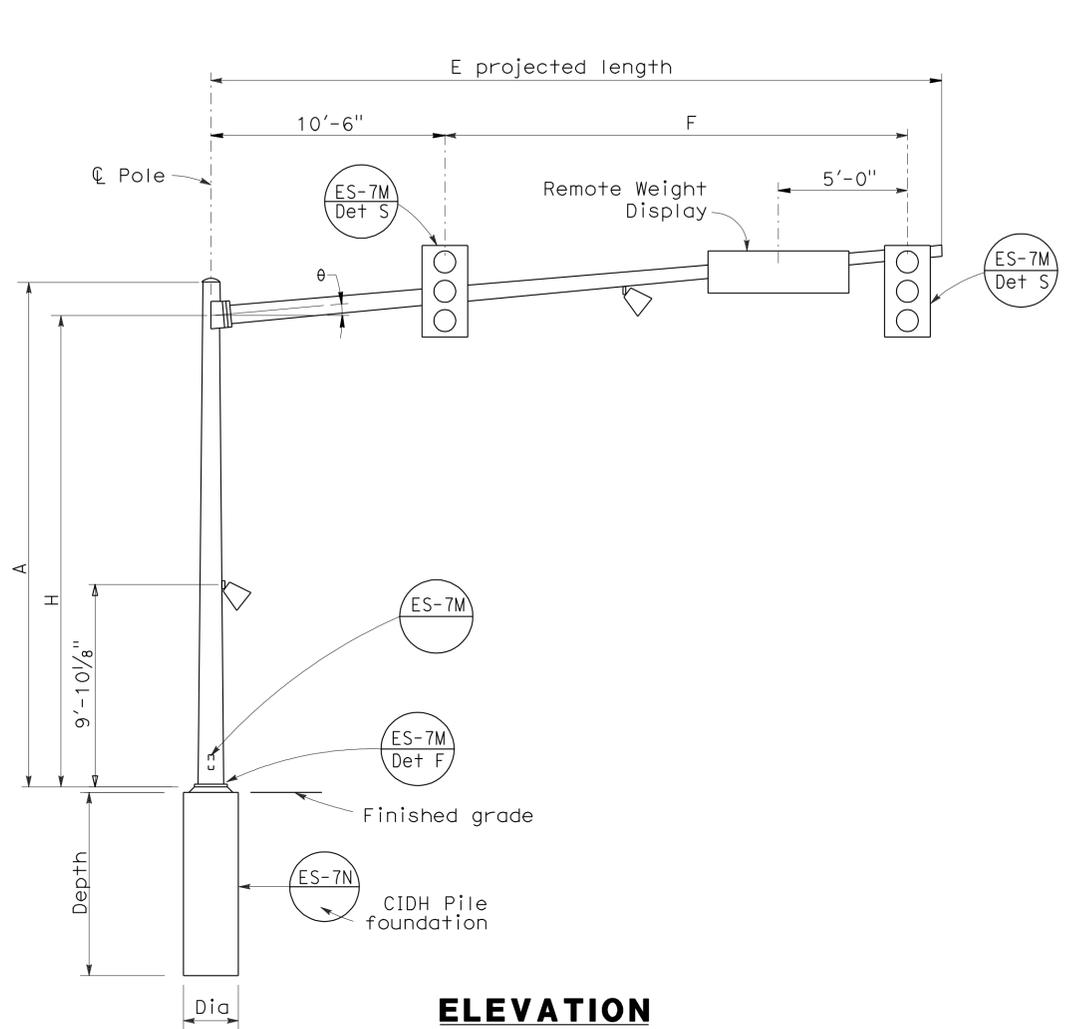
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	3-1-10	11-18-10	11-22-10
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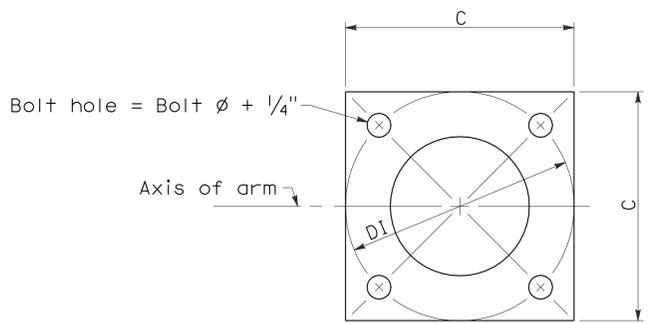
SHEET	3	OF	5
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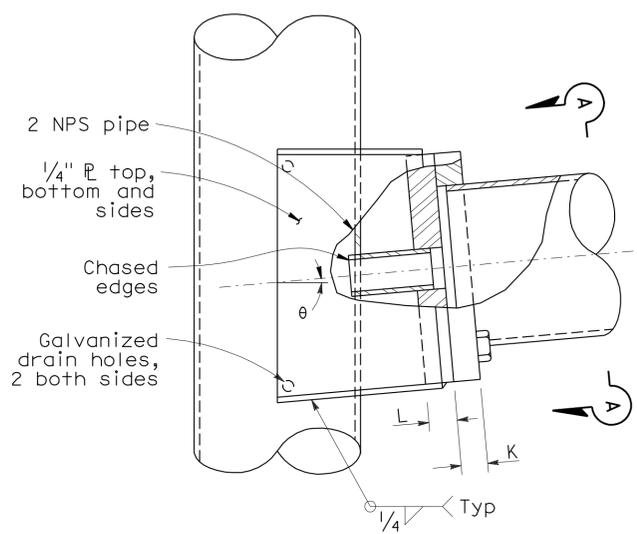
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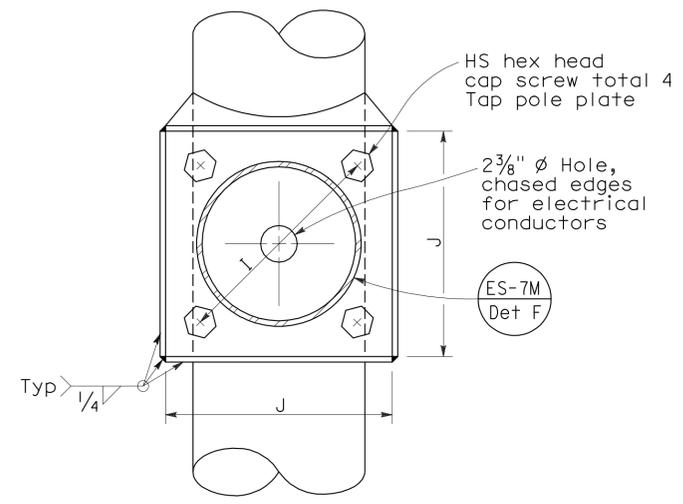
**ELEVATION
TYPE 23-4-100**



BASE PLATE



ELEVATION



VIEW A-A

SIGNAL ARM CONNECTION DETAILS

SIGNAL ARM DATA										
E Projected Length	F Min Spacing	H	Min OD at Pole	Thickness	I Bolt Circle	HS Cap Screws	J Plate Size	K Arm R Thickness	L Pole R Thickness	theta
35'-0"	14'-0"	21'-0"	8 1/8"	0.2391"	13 1/2"	1 1/4"-7NC-3"	1'-1 1/2"	1 1/2"	1 3/4"	5°

Pole Type	Load Case	Wind Velocity mph	POLE DATA				BASE PLATE DATA				Luminaire Arm	Signal Arm	CIDH PILE FOUNDATION		
			A Height	Min OD		Thickness	C	DI Bolt Circle	Thickness	Anchor Bolts Size			Dia	Depth	Reinforced
23-4-100	4	100	22'-0"	12"	9"	0.2391"	1'-6"	1'-6"	1 1/2"	2" phi x 42" x 6"	None	35'-0"	3'-0"	9'-0"	Yes

TYPE 23-4-100 SIGNAL STANDARD (MOD)

BRANCH CHIEF *Jeffrey B. Woody*

DESIGN	BY A BUI	CHECKED J DATILES
DETAILS	BY D W JUSTICE Jr	CHECKED A BUI
QUANTITIES	BY J DATILES	CHECKED A BUI

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

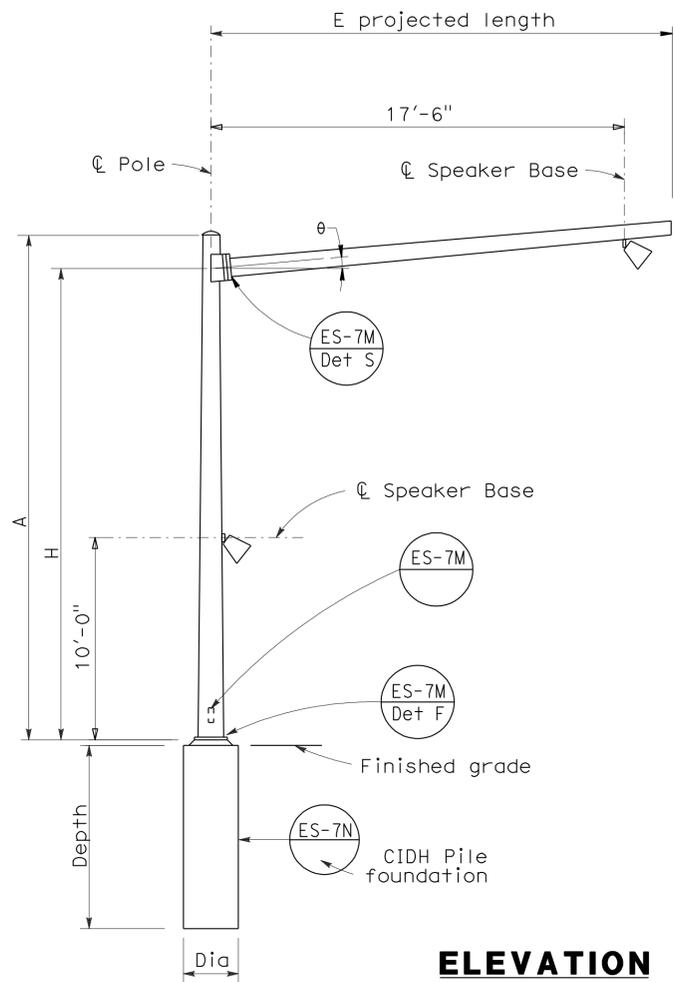
DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH **A**

BRIDGE NO.	N/A
POST MILE	23.5

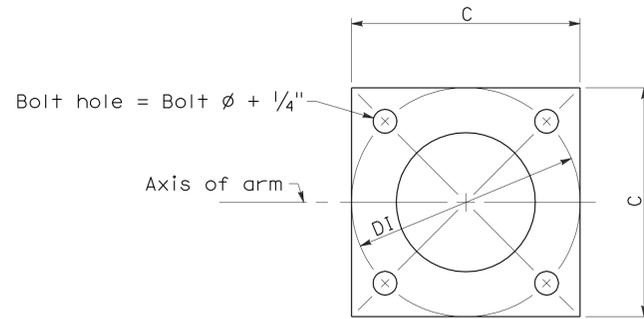
SANTA NELLA WEIGH STATION UPGRADE
TRAFFIC SIGNAL & WEIGHT DISPLAY POLE DETAILS

SD-4
EE3-4

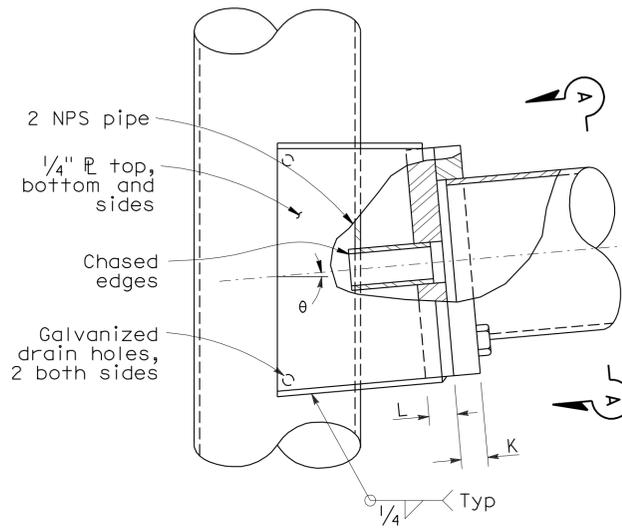
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	5	23.1/24.0	72	76
			3-18-10	REGISTERED CIVIL ENGINEER DATE	
			12-5-11	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER ANDREW BUI No. C63560 Exp. 9/30/12 CIVIL STATE OF CALIFORNIA		
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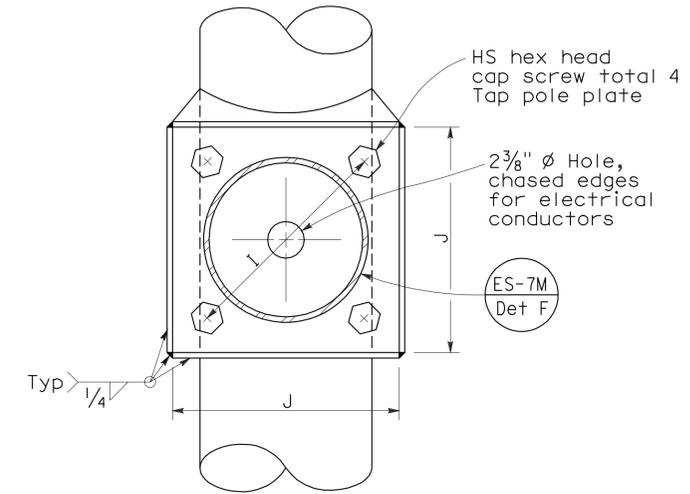
**ELEVATION
TYPE 18-1-100**



BASE PLATE



ELEVATION



VIEW A-A

SIGNAL ARM CONNECTION DETAILS

SIGNAL ARM DATA										
E Projected Length	F Min Spacing	H	Min OD at Pole	Thickness	I Bolt Circle	HS Cap Screws	J Plate Size	K Arm ϕ Thickness	L Pole ϕ Thickness	θ
20'-0"	14'-0"	19'-0"	7 7/8"	0.1196"	12"	1 1/4"-7NC-3"	1'-0"	1 1/4"	1 3/4"	5°

Pole Type	Load Case	Wind Velocity mph	POLE DATA				BASE PLATE DATA				Luminaire Arm	Signal Arm	CIDH PILE FOUNDATION		
			A Height	Min OD		Thickness	C	DI Bolt Circle	Thickness	Anchor Bolts Size			Dia	Depth	Reinforced
18-1-100	1	100	20'-0"	10 3/4"	8 7/16"	0.1793"	1'-6"	1'-5 1/2"	1 1/4"	1 1/2" ϕ x 42" x 6"	None	20'-0"	2'-6"	7'-2"	Yes

TYPE 18-1-100 SIGNAL STANDARD (MOD)

BRANCH CHIEF *Jeffrey B. Woody*

DESIGN	BY A BUI	CHECKED J DATILES
DETAILS	BY D W JUSTICE Jr	CHECKED A BUI
QUANTITIES	BY J DATILES	CHECKED A BUI

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH **A**

BRIDGE NO.	N/A
POST MILE	23.5

SANTA NELLA WEIGH STATION UPGRADE
SPEAKER POLE DETAILS

SD-5
EE3-5

ABBREVIATIONS

AB	AGGREGATE BASE	IN	INCH
AC	ASPHALT CONCRETE	JB	JUNCTION BOX
B	BUNG	kw	KILOWATT
BLDG	BUILDING	LB	POUND
C	CONDUIT	LS	LANDSCAPE IRRIGATION
C-C	CENTER TO CENTER	LT	LEFT
CFS	CUBIC FEET PER SECOND	MAX	MAXIMUM
CI	CAST IRON	MBV	MOTORIZED BALL VALVE
CL	CHAIN LINK	MH	MANHOLE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM
CONC	CONCRETE	N	NORTH
COTF	CLEANOUT TO FLOOR	NB	NORTHBOUND
COTG	CLEANOUT TO GRADE	NIC	NOT IN CONTRACT
CPLG	COUPLING	NO	NUMBER
CW	COLD WATER PIPE	OC	ON CENTER
D	DRAIN	OD	OUTSIDE DIAMETER
DBH	DIAMETER AT BREAST HEIGHT	OG	ORIGINAL GROUND
DI	DRAIN INLET	P	PITCH
DIA	DIAMETER	PCC	PORTLAND CEMENT CONCRETE
DP	DRAIN PIPE	PH	PHASE
E	ELECTRICAL	PRV	PRESSURE REDUCING VALVE
(E)	EXISTING	PVC	POLYVINYL CHLORIDE
EA	EACH	R	RADIUS
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	REQ	REQUIRED
EQ	EQUAL	rpm	REVOLUTIONS PER MINUTE
FOB	FACE OF BUILDING	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
FF	FINISH FLOOR	RPU	RECYCLE PROCESS UNIT
FG	FINISH GRADE	RT	RIGHT
FL	FLOW LINE	R/W	RIGHT-OF-WAY
FM	FORCE MAIN	S	SLOPE
FOC	FACE OF CONCRETE	SB	SOUTHBOUND
FS	FLOW SWITCH	SCH	SCHEDULE
FT	FEET	SD	STORM DRAIN
FTR	FLUE THROUGH ROOF	SP	SEWAGE PIPE
GA	GAUGE	SQ	SQUARE
GAC	GRANULAR ACTIVATED CARBON	STA	STATION
GAL	GALLON	STD	STANDARD
GPM	GALLONS PER MINUTE	TBM	TEMPORARY BENCH MARK
GALV	GALVANIZED	TOC	TOP OF CONCRETE
GSP	GALVANIZED STEEL PIPE	TOT	TOTAL
GV	GATE VALVE	TYP	TYPICAL
GS	GOVERNMENT SERVICE LINE	VAC	VOLTS AC
H	HEIGHT	VCP	VITRIFIED CLAY PIPE
HP	HOSE FAUCET	W	WATER
HF	HORSEPOWER	W/O	WITHOUT
HZ	HERTZ	WP	WATER PIPE
ID	INSIDE DIAMETER	WSP	WELDED STEEL PIPE
IE	INVERT ELEVATION (IN FEET)		

LEGEND

	FENCE		DETAIL
	SURFACE DRAINAGE		SHEET NUMBER
	ABANDON		NEW GRADE IN FEET
	SANITARY SEWER		EXISTING SPOT GRADE IN FEET
	DRAIN		SURFACE DRAINAGE
	RETURN DRAIN		ABANDON
	VENT		BENCHMARK ELEVATION
	WATER		CENTERLINE
	FORCE MAIN		DIAMETER
	LEACH LINES		SECTION / ELEVATION LETTER
			SHEET NUMBER
			TREE
			DIRECTION OF TRAFFIC

GENERAL WORK NOTES

The Contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any materials.

The Contractor shall verify exact location of all underground facilities and utilities prior to start of construction.

No 90 degree bends allowed on drain or sewer pipe. Where 90 degree bends are shown, use two 45 degree bends

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	73	76

Jerome R. Marcotte 5/18/2010
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
JEROME R. MARCOTTE
No. C 36844
Exp. 06/30/12
CIVIL
STATE OF CALIFORNIA

12-5-11
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL
APPROVED

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Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 04-27-11

DESIGN	BY	Andy Quan	CHECKED	Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	SANTA NELLA WEIGH STATION UPGRADE		SHEET					
	DETAILS	BY	Andy Quan	CHECKED			Don Hansen	39W002R/L	NOTES, LEGEND, AND ABBREVIATIONS		SS-0				
	QUANTITIES	BY	Andy Quan	CHECKED			Jerry Marcotte	POST MILE							
						UNIT	3616	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET					
DOES SD Imperial Rev. 9/02						PROJECT NUMBER & PHASE	10000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		OF					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0	1	2	3	07-18-08	10-15-08	07-30-09	15-10-09	26-10-09	18-10

PRINTED ON: 07-DEC-2011 13:22 SS_0.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	74	76

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 04-27-11

Jerome R. Marcotte 5/18/2010
 REGISTERED CIVIL ENGINEER DATE

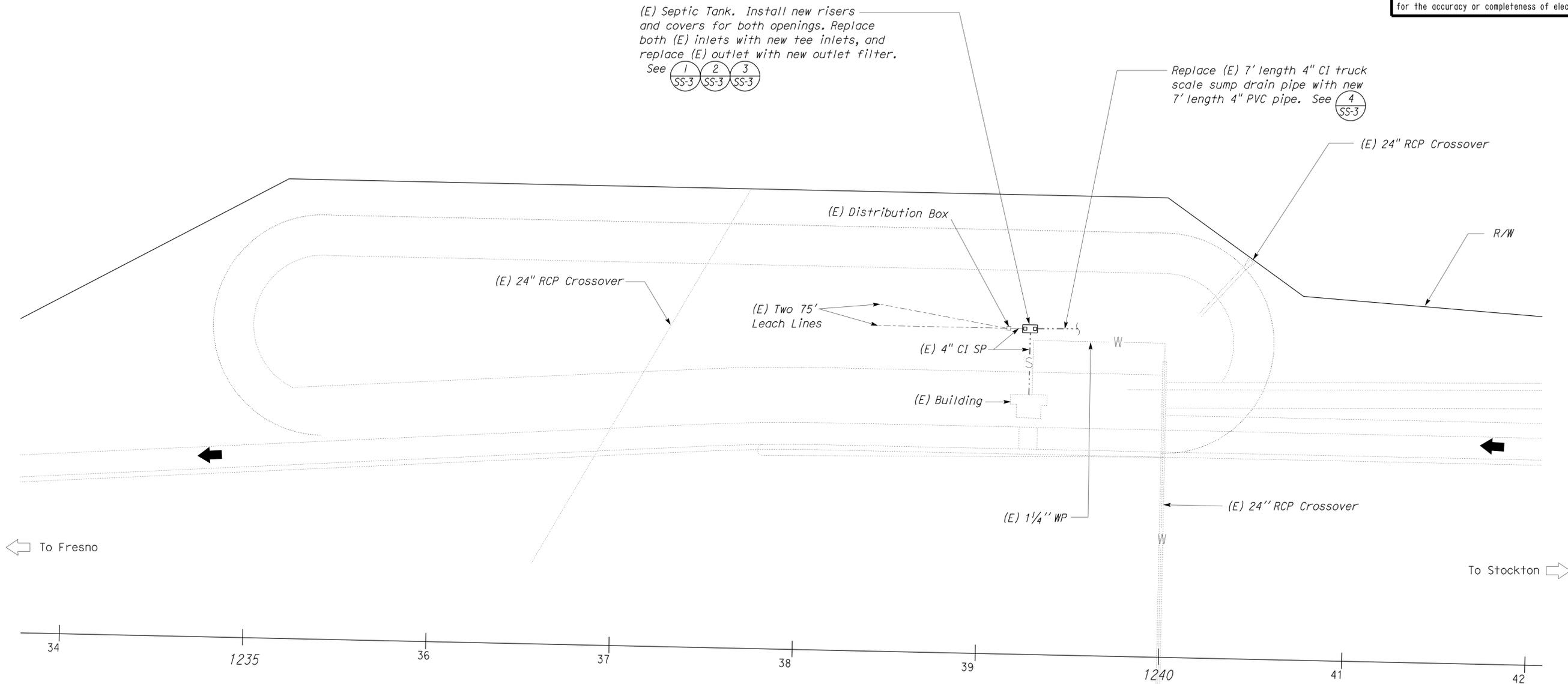
12-5-11
 PLANS APPROVAL DATE

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(E) Septic Tank. Install new risers and covers for both openings. Replace both (E) inlets with new tee inlets, and replace (E) outlet with new outlet filter.
 See (1) (2) (3)
 SS-3 SS-3 SS-3

Replace (E) 7' length 4" CI truck scale sump drain pipe with new 7' length 4" PVC pipe. See (4)
 SS-3



SITE PLAN

SCALE: 1" = 30' - 0"

And Schreff
 DESIGN SUPERVISOR
Jerome R. Marcotte
 DESIGN ENGINEER

DESIGN	BY Andy Quan	CHECKED Don Hansen
DETAILS	BY Andy Quan	CHECKED Don Hansen
QUANTITIES	BY Andy Quan	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	39W002R/L
POST MILE	R23.5

SANTA NELLA WEIGH STATION UPGRADE
 SOUTHBOUND SITE PLAN

SHEET **SS-1** OF

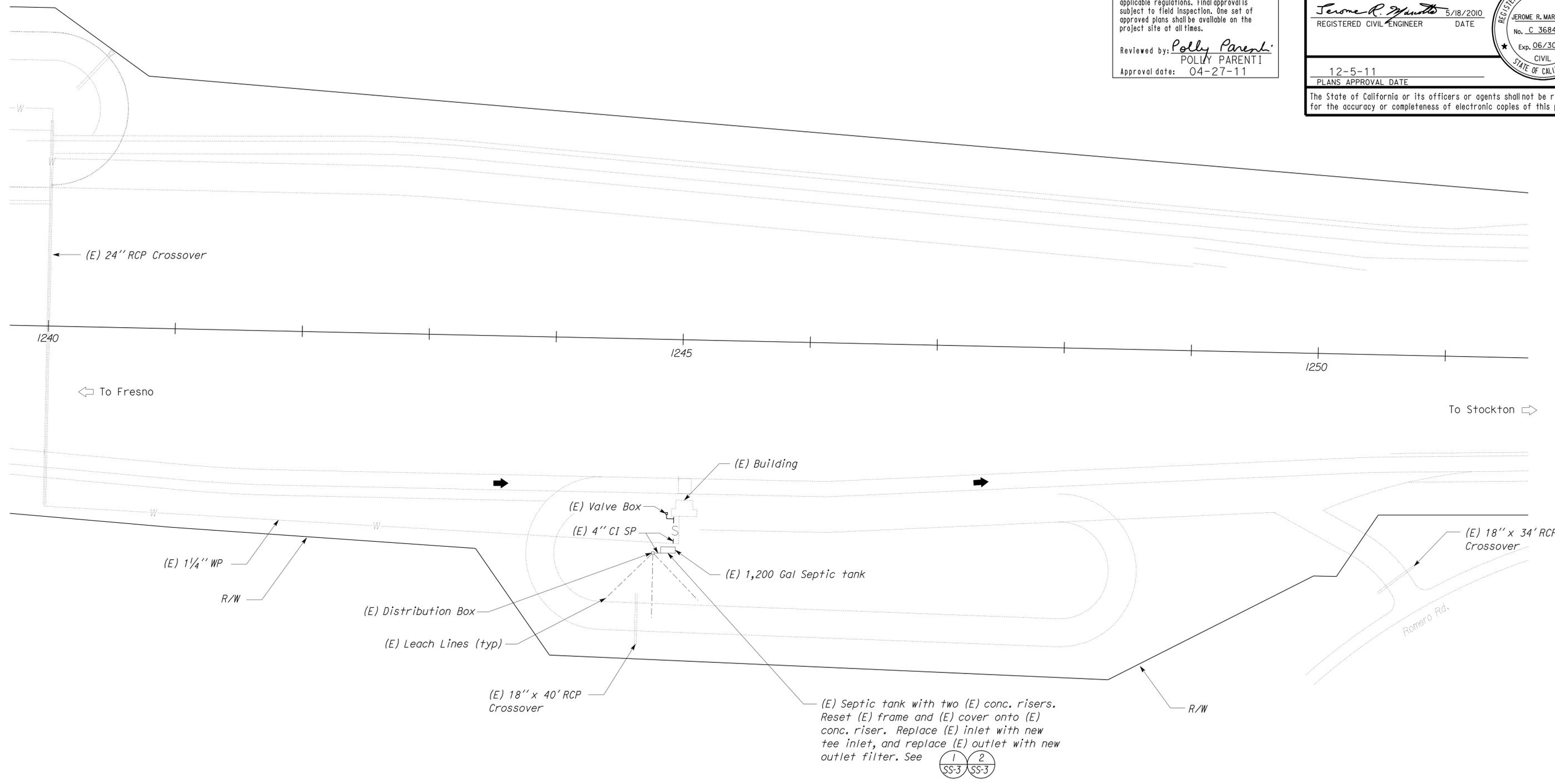
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	75	76

<i>Jerome R. Marcotte</i> 5/18/2010 REGISTERED CIVIL ENGINEER DATE		
12-5-11 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.		

CALIFORNIA STATE FIRE MARSHAL APPROVED

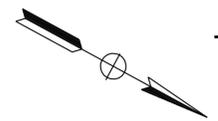
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 04-27-11



SITE PLAN

SCALE: 1" = 40' - 0"

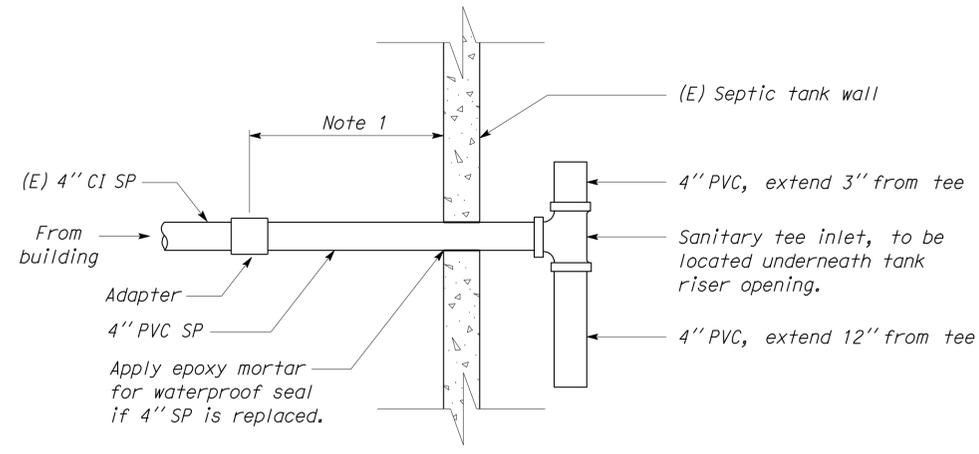


DESIGN BY Andy Quan	CHECKED Don Hansen	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	SANTA NELLA WEIGH STATION UPGRADE	SHEET SS-2
				POST MILE R23.5		
DETAILS BY Andy Quan	CHECKED Don Hansen	DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		NORTHBOUND SITE PLAN	
QUANTITIES BY Andy Quan	CHECKED Jerry Marcotte					
DOES SD Imperial Rev. 9/02	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 1000002331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

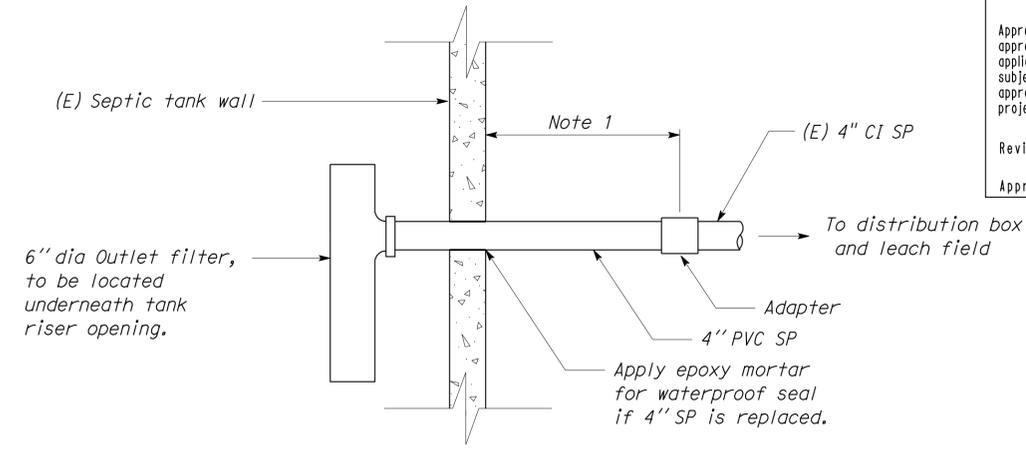
PRINTED ON: 07-DEC-2011 13:22 SS_2.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	5	23.1/24.0	76	76

CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <u>Polly Parenti</u> POLLY PARENTI Approval date: 04-27-11		5/18/2010 DATE REGISTERED CIVIL ENGINEER
12-5-11 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.		

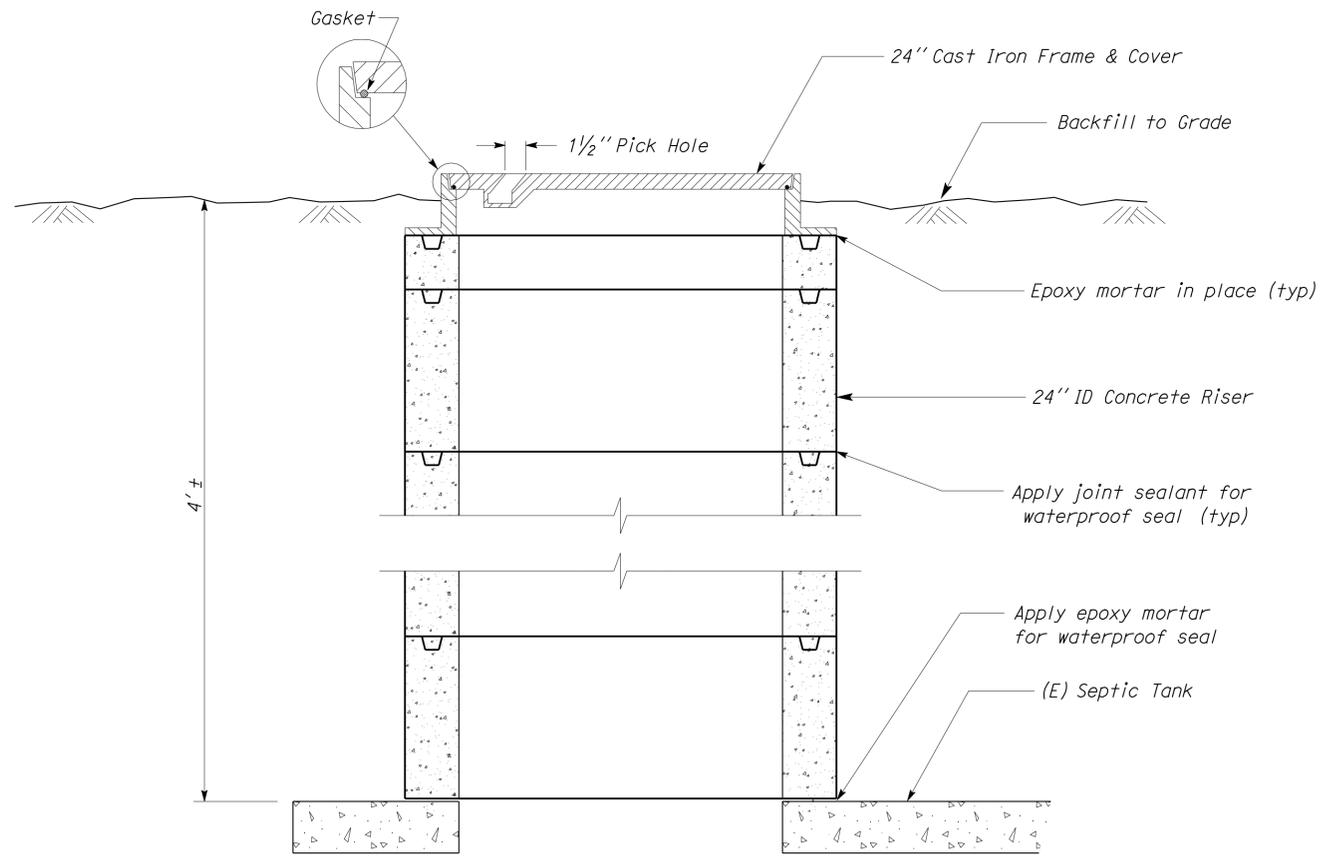


1 SEPTIC TANK INLET
NO SCALE

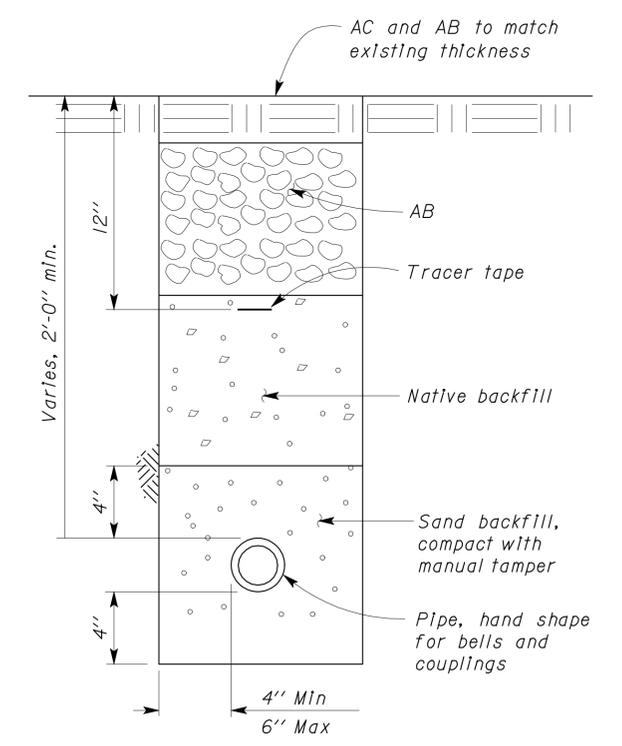
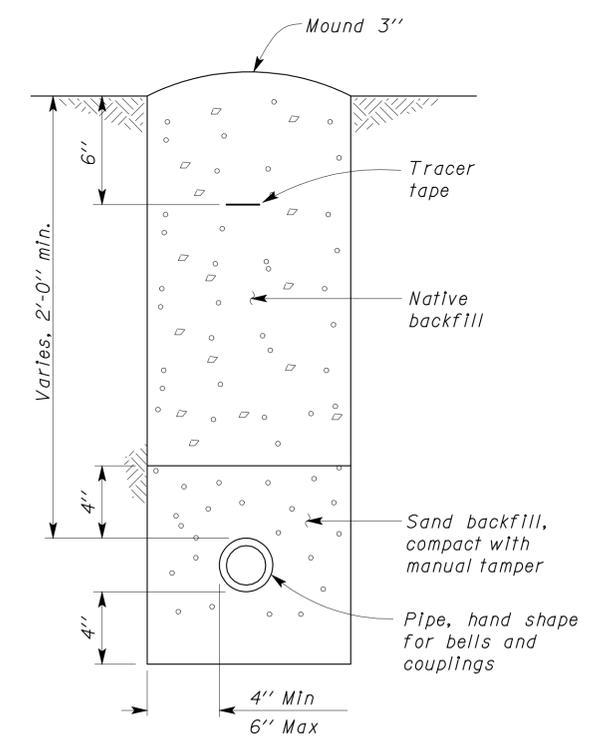


2 SEPTIC TANK OUTLET
NO SCALE

NOTE:
1. Limits of work will be 12" from the septic tank, or as indicated on the drawings, whichever is larger.



3 SEPTIC TANK RISER
NO SCALE



4 SEWAGE PIPE
NO SCALE

DESIGN	BY	Andy Quan	CHECKED	Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	SANTA NELLA WEIGH STATION UPGRADE		SHEET	
	DETAILS	BY	Andy Quan	CHECKED			Don Hansen	39W002R/L	DETAILS		SS-3
QUANTITIES	BY	Andy Quan	CHECKED	Jerry Marcotte	UNIT	3616	POST MILE	R23.5		OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET
DOES SD Imperial Rev. 9/02					PROJECT NUMBER & PHASE		1000002331		REVISION DATES (PRELIMINARY STAGE ONLY)		OF
									07-18-08 10-15-08 07-30-09 11-15-10 03-26-10 05-18-11 05-02-11		

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