

NOTES:

- EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
- POST LENGTHS GIVEN ARE APPROXIMATE. EXACT LENGTH TO BE DETERMINED BY THE ENGINEER.

ROADSIDE SIGN QUANTITIES

Sht No.	SIGN No.	SIGN CODE	PANEL SIZE		BACKGROUND		LEGEND		GRAFFITI FILM		ROADSIDE SIGN				FURNISH ROADSIDE SIGN PANEL AREA		REMARKS	
			Horiz	Vert	SHEETING COLOR	RETROFLECTIVE ASTM TYPE	SHEETING COLOR	RETROFLECTIVE ASTM TYPE	STANDARD	PREMIUM	ONE POST	TWO POST	RELOCATE	REMOVE	SINGLE SHEET	UNFRAMED ALUMINUM		
			INCH x INCH												SQFT			
S-7	7-4	W9-1	48	48	YELLOW	III	BLACK	III	X							16		
		R26(CA)	12	18	WHITE	III	RED	III	X							1.5		
		R81(CA)	24	18	WHITE	III	BLACK	III	X							3		
	7-5	W4-2	36	36	YELLOW	III	BLACK	III	X							9		
		R26(CA)	12	18	WHITE	III	RED	III	X							1.5		
	7-6	R81A(CA)	12	5	WHITE	III	BLACK	III	X							0.5		
		R81(CA)	24	18	WHITE	III	BLACK	III	X							3		
	7-7	R81(CA)	24	18	WHITE	III	BLACK	III	X							3		
	7-8	R26(CA)	12	18	WHITE	III	RED	III	X							4.5		
	7-9	W3-1	36	36	YELLOW	III	BLACK	III	X							9		
		R26(CA)	12	18	WHITE	III	RED	III	X							1.5		
7-10	W3-1	36	36	YELLOW	III	BLACK	III	X							9			
7-11	W3-3	36	36	YELLOW	III	BLACK	III	X							9			
S-8	8-1	R1-1																
		D3-1																
		D3-1																
	8-2	W4-2	36	36	YELLOW	III	BLACK	III	X							9		
		R81(CA)	24	18	WHITE	III	BLACK	III	X							3		
	8-3	W3-3	36	36	YELLOW	III	BLACK	III	X							9		INSTALL SIGN ON TRAFFIC SIGNAL POLE
	8-4	R81(CA)	24	18	WHITE	III	BLACK	III	X							3		
		R81A(CA)	12	5	WHITE	III	BLACK	III	X							0.5		
	8-5	R81(CA)	24	18	WHITE	III	BLACK	III	X							3		
		R81A(CA)	24	18	WHITE	III	BLACK	III	X							3		
8-6	R73-2(CA)	36	36	WHITE	III	BLACK	III	X							9		INSTALL SIGN ON TRAFFIC SIGNAL MAST ARM	
8-7	R73-3(CA)	36	36	WHITE	III	BLACK	III	X							9		INSTALL SIGN ON TRAFFIC SIGNAL MAST ARM	
8-8	R73-2(CA)	36	36	WHITE	III	BLACK	III	X							9		INSTALL SIGN ON TRAFFIC SIGNAL MAST ARM	
8-9	R73-3(CA)	36	36	WHITE	III	BLACK	III	X							9		INSTALL SIGN ON TRAFFIC SIGNAL MAST ARM	
SHEET TOTAL											13	0	0	1	134.0			
TOTAL											67	5	8	41	1243.1			

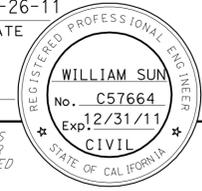
* PER 1996 CA MUTCD.

OVERHEAD SIGN QUANTITIES

Sht No.	SIGN No.	SIGN CODE	PANEL SIZE		FURNISH SIGN PANEL	BACKGROUND		LEGEND		GRAFFITI FILM		FURNISH SIGN STRUCTURE (LIGHTWEIGHT)	INSTALL SIGN STRUCTURE (LIGHTWEIGHT)	FURNISH SIGN STRUCTURE (TRUSS)	INSTALL SIGN STRUCTURE (TRUSS)	POST TYPE (S+d PLAN)	CIDH Conc PILE (SIGN FOUNDATION)			REMARKS	
			Horiz	Vert		SHEETING COLOR	RETROFLECTIVE ASTM TYPE	SHEETING COLOR	RETROFLECTIVE ASTM TYPE	STANDARD	PREMIUM						DIAMETER	30" Dia FOUNDATION DEPTH	60" Dia FOUNDATION DEPTH		
			FEET X INCH		SQFT							LB	LB	LB	LB	VI(S8)	LF	LF	LF		
S-1	A	G85-11(CA)	12	120	120	GREEN	III	WHITE	III	X	-	-	14,220	14,220	-	VI(S8)	5	-	22		
S-2	B	G70-2(CA)(77)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING	
		G85-3(CA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING	
S-3	C	G70-4(CA)	3	36	9	GREEN	III	WHITE	III	X	-	-	-	-	-	-	-	-	-	INSTALL SIGN ON BRIDGE STRUCTURE.	
		G24-3(CA)	15	120	150	GREEN	III	WHITE	III	X	-	-	-	-	-	-	-	-	-	SEE SHEETS SDS-1 TO SDS-3 FOR DETAILS.	
S-4	D	G78-1(CA)	5	42	17.5	GREEN	III	WHITE	III	X	-	1,820	1,820	-	-	C-1(S45)	2.5	10	-		
		G85-11(CA)	12	120	120	GREEN	III	WHITE	III	X	-	-	-	87,435	87,435	VIII(S8)	5	-	25		
S-5	E	G85-11(CA)	10	120	100	GREEN	III	WHITE	III	X	-	-	-	-	-	-	-	-	-		
		G77-4(CA)	5	54	22.5	GREEN	III	WHITE	III	X	-	2,370	2,370	-	-	C-2(S45)	2.5	11	-		
TOTAL					659	-	-	-	-	-	-	4,190	4,190	114,890	114,890	-	-	21	69		

THIS PLAN ACCURATE FOR SIGN WORK ONLY.

SIGN QUANTITIES SQ-4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	201	352
			07-26-11 DATE		
11-28-11 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.					
LIN CONSULTING, INC. 21660 E. COPLEY DRIVE, #270 DIAMOND BAR, CA 91765					

BRIDGE MOUNTED SIGN

Sht No.	FURNISH SIGN STRUCTURE (BRIDGE MOUNTED SIGN WITH WALKWAY)	INSTALL SIGN STRUCTURE (BRIDGE MOUNTED SIGN WITH WALKWAY)
SDS-1 TO SDS-4	3690	3690

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	202	352

12-20-11
REGISTERED CIVIL ENGINEER DATE

11-28-11
PLANS APPROVAL DATE

STEPHEN J. MISLINSKI
No. 61834
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.

AECOM
TECHNICAL SERVICES, Inc.
2905 STENDER WAY, SUITE 82
SANTA CLARA, CA 95054

OBLITERATE SURFACING

PLAN SHEET No.	LOCATION	STATION	AREA
			SQYD
L-6	L+	"A" 538+65.33 TO 542+99.31	1887
	R+	"A" 538+16.73 TO 542+62.62	1226
TOTAL			3,113

ADJUST FRAME AND COVER TO GRADE

PLAN SHEET No.	LOCATION	STATION	SEWER MANHOLE	WATER VALVE	TELEPHONE MANHOLE
U-1	L+	"I" 21+06.45			1
	CL	"19TH" 16+09.22	1		
	L+	"19TH" 16+27.64		4	
	R+	"I" 17+95.85	1		
U-2	L+	"I" 18+15.18		1	
	R+	"19TH" 32+72.66		2	
U-3	L+	"19TH" 34+45.99	1		
	L+	"19TH" 35+81.11		1	
TOTAL			12		

CONCRETE BARRIER

PLAN SHEET No.	LOCATION	STATION	CONCRETE BARRIER (TYPE 60C)	CONCRETE BARRIER (TYPE 60E)
			LF	LF
L-1	L+	"C" 488+01.68 TO 491+50.00	350	
L-2	R+	"A" 491+50.00 TO 505+50.00	1400	
L-3	CL	"A" 509+19.37 TO 511+00.66		182
L-4	R+	"A" 505+50.00 TO 511+22.78	573	
TOTAL			2,323	182

ROADWAY QUANTITIES

AREA	CLASS 1 AGGREGATE SUBBASE	CLASS 2 AGGREGATE BASE	ROADWAY EXCAVATION	EMBANKMENT (N)	IMPORTED BORROW	LEAN CONCRETE BASE	CONCRETE PAVEMENT (RAMP TERMINI)	SHOULDER BACKING	HOT MIX ASPHALT	TACK COAT
A-LINE		8,007	13,991.6	6,173.6	0			1174.0	9,149	14.11
B-LINE		543	24.6	1,359.3	1,334.7			359.7	524	0.32
C-LINE		4,492	1,738.4	7,949.7	6,211.3			620.2	4,331	2.67
I-LINE		773	903.2	305.6	0				884	0.84
19TH AVE		7,894	185.5	108,364.4	118,249.2				9,036	8.37
EBO-LINE		2,919	1,042.2	38,605.9	37,563.7			799.1	3,361	3.46
EBE-LINE	320	2,117	949.6	28,219.9	27,270.3	186	490.9	622.4	2,420	2.50
WBO-LINE		1,417	819.8	12,840.3	12,020.5			327.9	1,623	1.71
WBE-LINE	322	1,182	1,619.8	13,708.6	12,088.8	188	493.2	486.7	1,360	1.38
CUL-DE-SAC		528							604	0.57
KNUCKLE		142							162	0.15
HMA DIKE									408	
BASIN 1			490.5	0	0					
BASIN 2			4,996.7	0	0					
BASIN 3			4,336.0	0	0					
BASIN 4			12,837.9	0	0					
TEMPORARY PAVEMENT			10,211.1	2003.8					8208	
DRAINAGE QUANTITIES									6.51	
SUBTOTAL			54,146.9	219,531.1	**175,454.5					
Temp EMBANKMENT SURCHARGE			***15,373		***15,373					
TOTAL	642	30,014	69,519.9		190,827.5	374	984.1	4390.1	42,077	36.10

ALTERNATIVE CRASH CUSHION SYSTEM

PLAN SHEET No.	LOCATION	STATION	EA
L-1	R+	"A" 477+37.72	1
	R+	"A" 488+00.39	1
L-3	CL	"A" 509+22.01	1
	CL	"A" 510+97.93	1
TOTAL			4

HOT MIX ASPHALT DIKE

PLAN SHEET No.	LOCATION	STATION	PLACE HOT MIX ASPHALT DIKE (TYPE E)	HOT MIX ASPHALT (TYPE A)
			LF	TON
L-3	L+	"WBO" 512+90.00 TO 517+64.88	375.13	31.02
		"WBE" 512+77.65 TO 518+00.00	526.32	71.00
L-4	L+	"EBO" 513+50.00 TO 517+50.00	402.10	54.23
		"EBO" 507+11.74 TO 509+00.00	194.91	26.28
L-4	R+	"EBE" 508+42.50 TO 511+39.79	297.29	40.10
		"EBE" 519+65.26 TO 523+50.00	348.81	47.04
L-6	L+	"A" 538+48.64 TO 543+37.95	523.88	70.67
	R+	"A" 537+74.00 TO 542+79.84	501.86	67.70
TOTAL			3170.30	408.04 *

* QUANTITY INCLUDED IN ROADWAY QUANTITIES, SEE Q-1 SHEET

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
** - IMPORTED BORROW QUANTITY IS CALCULATED BY TAKING THE DIFFERENCE FROM TOTAL ROADWAY EXCAVATION AND TOTAL EMBANKMENT QUANTITY.
*** - QUANTITY IS ADDED TO SUBTOTAL TO CALCULATE TOTAL

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR
 WILLIAM NASCIMENTO
 CALCULATED-DESIGNED BY
 CHECKED BY
 DANIEL TILLSON
 TIM HIRAOKA
 REVISED BY
 DATE REVISED

IRRIGATION CROSSOVERS

LINE	STATION	SIDE		CONDUIT TYPE ③		(N) WATER LINE CROSSOVER SIZE (INCH)	(N) SPRINKLER CONTROL CROSSOVER SIZE (INCH)
		L+	R+	SIZE (INCH)	LENGTH (LF)		
		8	-				
WBO	515+00	-	X	46	-	3	2
WBE	515+00	-	-	52	-	3	2
EBE	516+50	-	-	44	-	3	2
EBO	515+00	-	-	40	-	3	2
19TH	23+77	X	-	100.5	-	3	2
19TH	24+18	-	X				
19TH	26+13	X	-	110.5	-	3	2
19TH	26+76	-	X				
TOTAL				393	-		

(N) - NOT A SEPARATE PAY ITEM FOR INFORMATION ONLY
 X - DENOTES REQUIREMENT

CONDUIT TYPE:
 (APPLICABLE WHEN CIRCLED BELOW AND SHOWN UNDER THE 'CONDUIT TYPE' COLUMN HEADING)

- 1 BITUMINOUS COATED CORRUGATED STEEL PIPE (0.064 INCH THICK)
- 2 CORRUGATED STEEL PIPE (0.064 INCH THICK)
- ③ CORRUGATED HIGH DENSITY POLYETHYLENE PIPE
- 4 ALTERNATIVE CONDUIT
- 5 WELDED STEEL PIPE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	204	352

Justin Hiraoka 07-26-11
 LIC. LANDSCAPE ARCHITECT DATE

11-28-11
 PLANS APPROVAL DATE

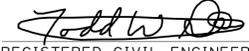
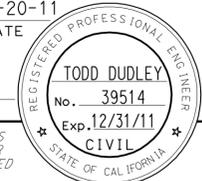
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ORSEE DESIGN ASSOCIATES
 10365 OLD PLACERVILLE RD
 SUITE 240
 SACRAMENTO, CA 95827

SUMMARY OF QUANTITIES

Q-3

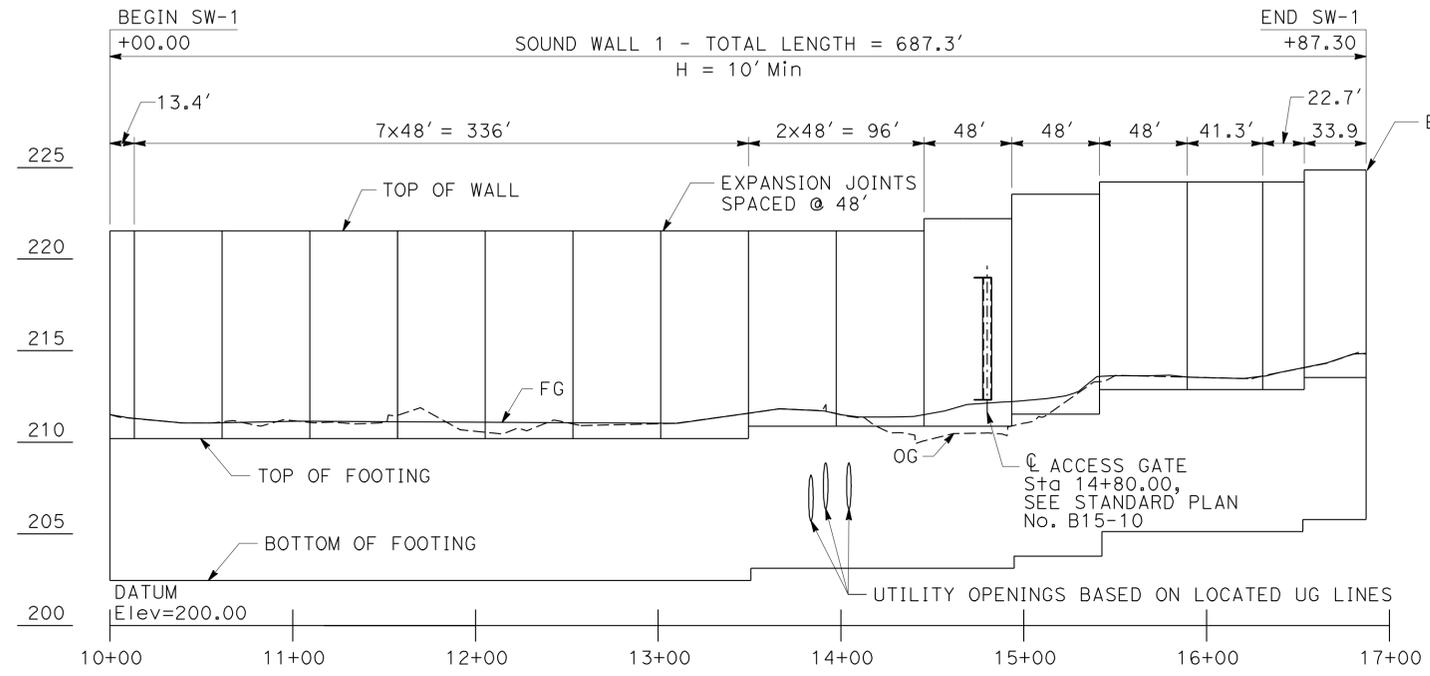
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	205	352


 REGISTERED CIVIL ENGINEER DATE 07-20-11
 11-28-11
 PLANS APPROVAL DATE


AECOM
 TECHNICAL SERVICES, Inc.
 2905 STENDER WAY, SUITE 82
 SANTA CLARA, CA 95054

NOTES:

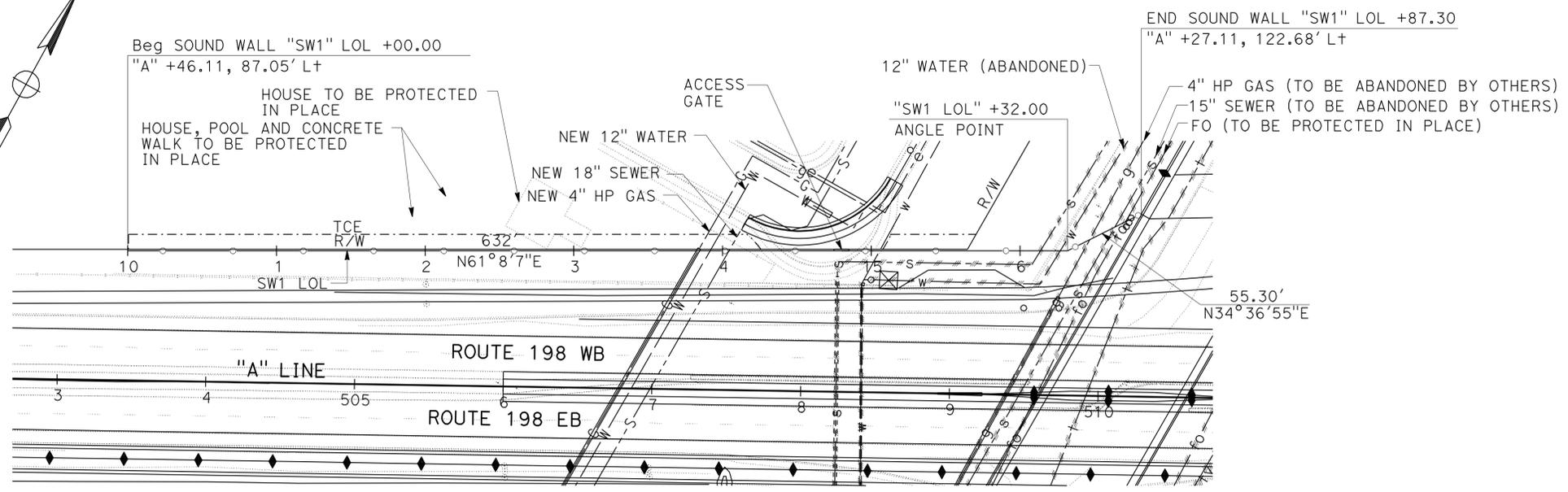
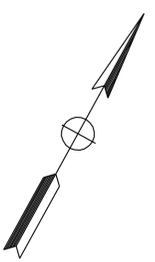
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. MASONRY BLOCK SIZE: 8"x8"x16"
3. SEE STANDARD PLAN SHEETS FOR DETAILS NOT SHOWN.
4. GATE LOCKS ARE ON RESIDENCE SIDE OF SOUND WALL.
5. CONSTRUCT UTILITY OPENINGS AROUND RELOCATED UNDERGROUND UTILITIES: SEWER, WATER, GAS LINES, PER DIRECTION OF ENGINEER.



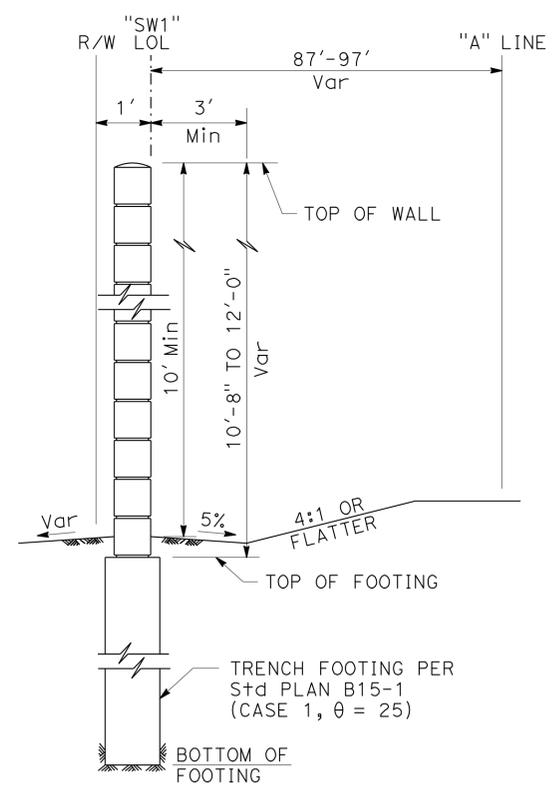
SOUND WALL ELEVATIONS

SW1 STATION	TOP OF WALL	TOP OF FOOTING	BOTTOM OF FOOTING	FINISHED GRADE
10+00.00	221.54	210.21	202.46	211.51
13+50.67	221.54	210.87	203.12	211.61
14+46.67	221.21	210.87	203.12	211.53
14+94.67	223.54	211.54	203.79	212.23
15+42.67	224.21	212.87	205.12	213.61
16+54.67	224.87	213.54	205.79	214.11

ELEVATION
 Horiz. SCALE: 1" = 50'
 Vert. SCALE: 1" = 10'



PLAN
 SCALE: 1" = 50'



TYPICAL SECTION
 10+00.00 TO 15+64.57
 NO SCALE

SOUND WALL PLAN
(SOUND WALL No. 1)
SW-1

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

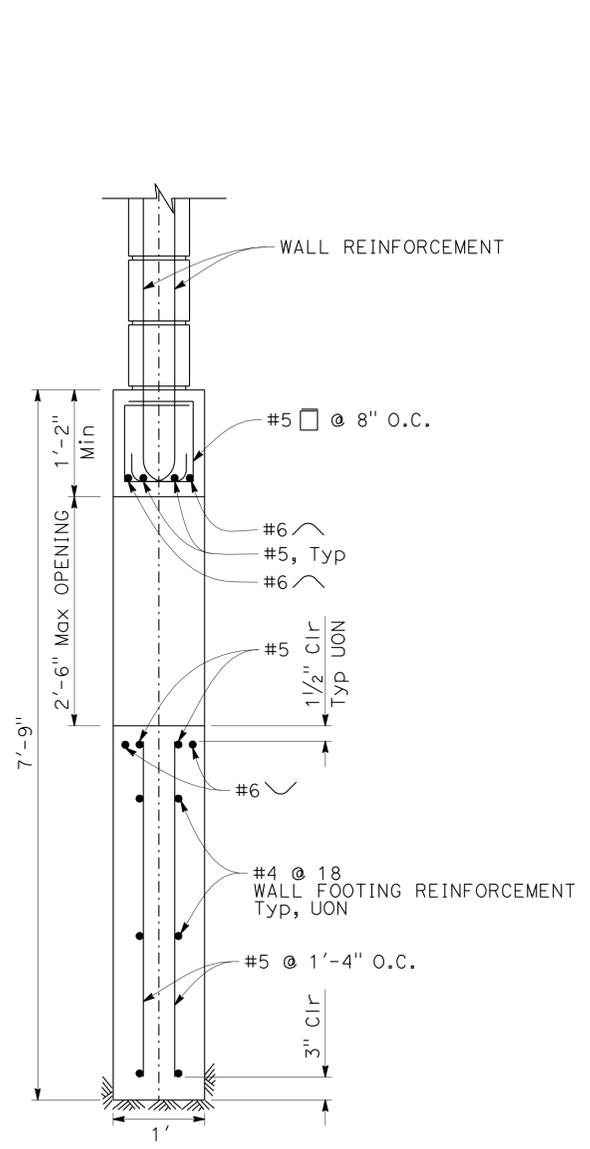
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	206	352

TODD DUDLEY
 REGISTERED CIVIL ENGINEER
 No. 39514
 Exp. 12/31/11
 CIVIL
 STATE OF CALIFORNIA

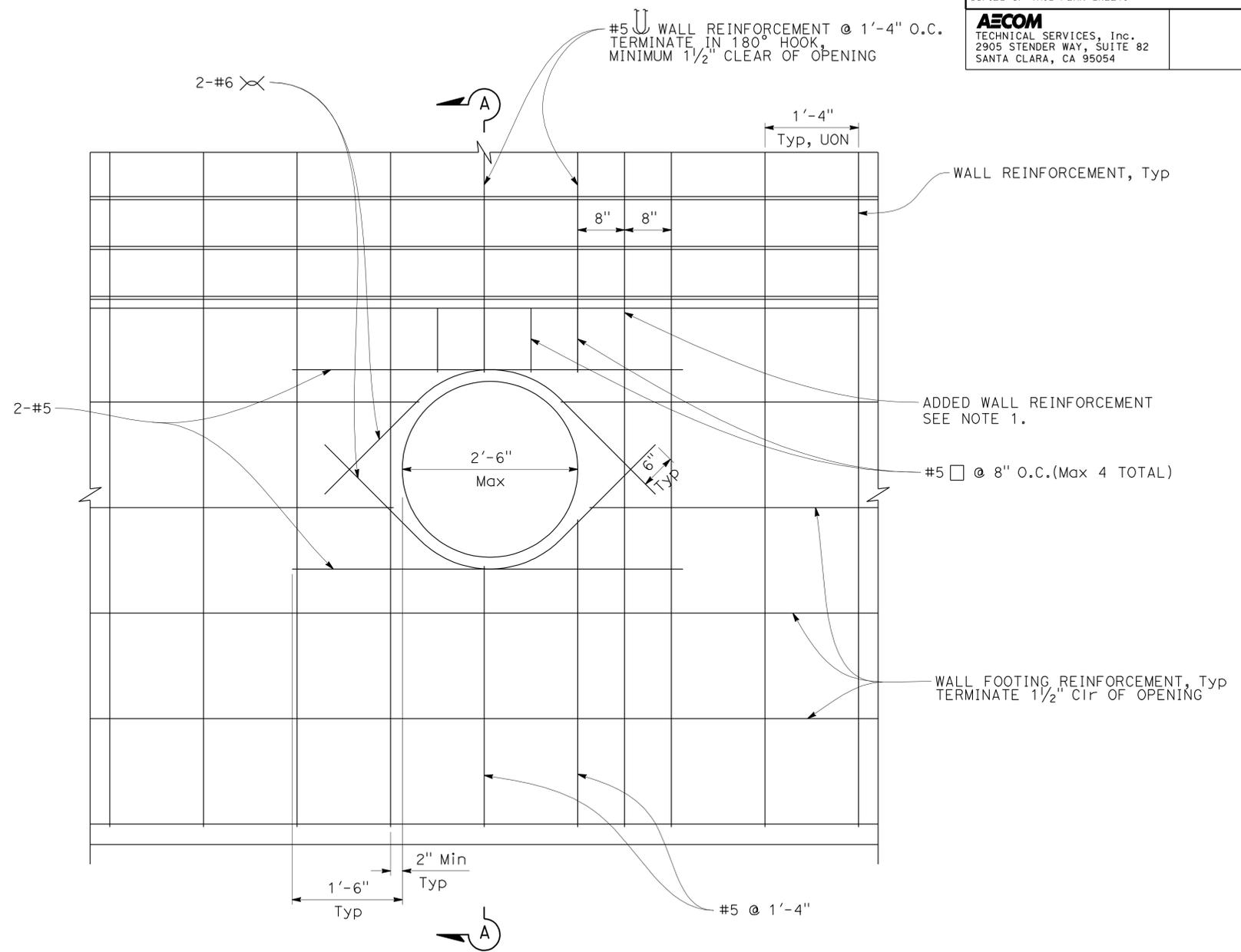
07-20-11
 DATE
 11-28-11
 PLANS APPROVAL DATE

AECOM
 TECHNICAL SERVICES, Inc.
 2905 STENDER WAY, SUITE 82
 SANTA CLARA, CA 95054

NOTE:
 1. WHEN POSSIBLE, ADD WALL REINFORCEMENT IN ADJACENT CELL AND EXTEND INTO FOOTING TO MINIMIZE THE OFFSET FROM THE EDGE OF OPENING.



SECTION A-A
 NO SCALE

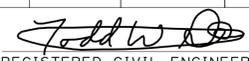


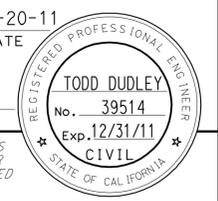
ELEVATION
 NO SCALE

SOUND WALL DETAILS
 (SOUND WALL No. 1)
SW-2

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	207	352

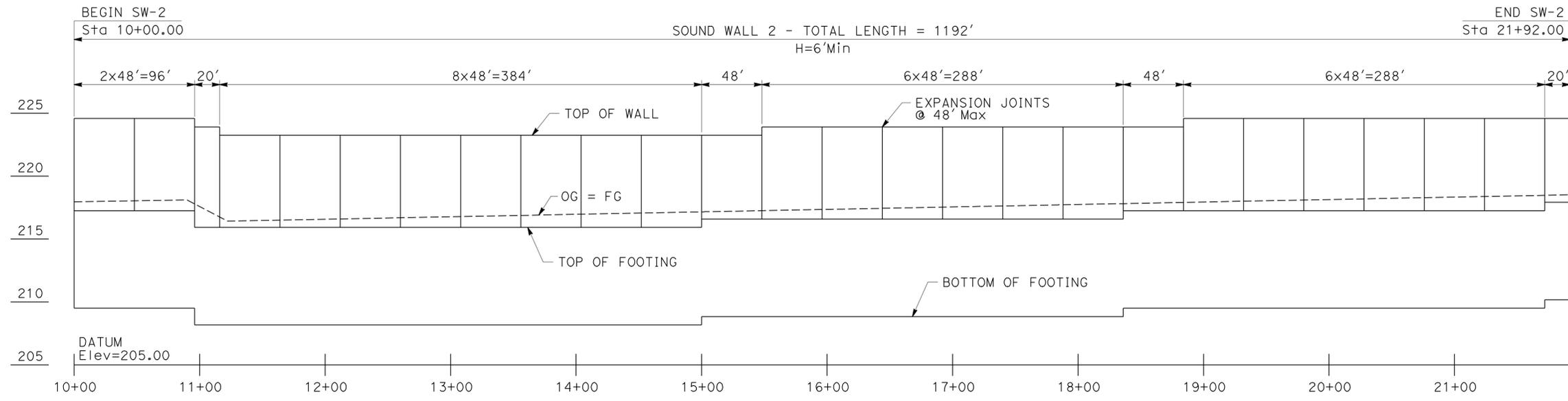

 REGISTERED CIVIL ENGINEER DATE 07-20-11
 PLANS APPROVAL DATE 11-28-11
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AECOM
 TECHNICAL SERVICES, Inc.
 2905 STENDER WAY, SUITE 82
 SANTA CLARA, CA 95054

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION.
- MASONRY BLOCK SIZE: 8"x8"x16"
- SEE STANDARD PLAN SHEETS FOR DETAILS NOT SHOWN.



ELEVATION
 Horiz SCALE: 1" = 50'
 Vert SCALE: 1" = 10'

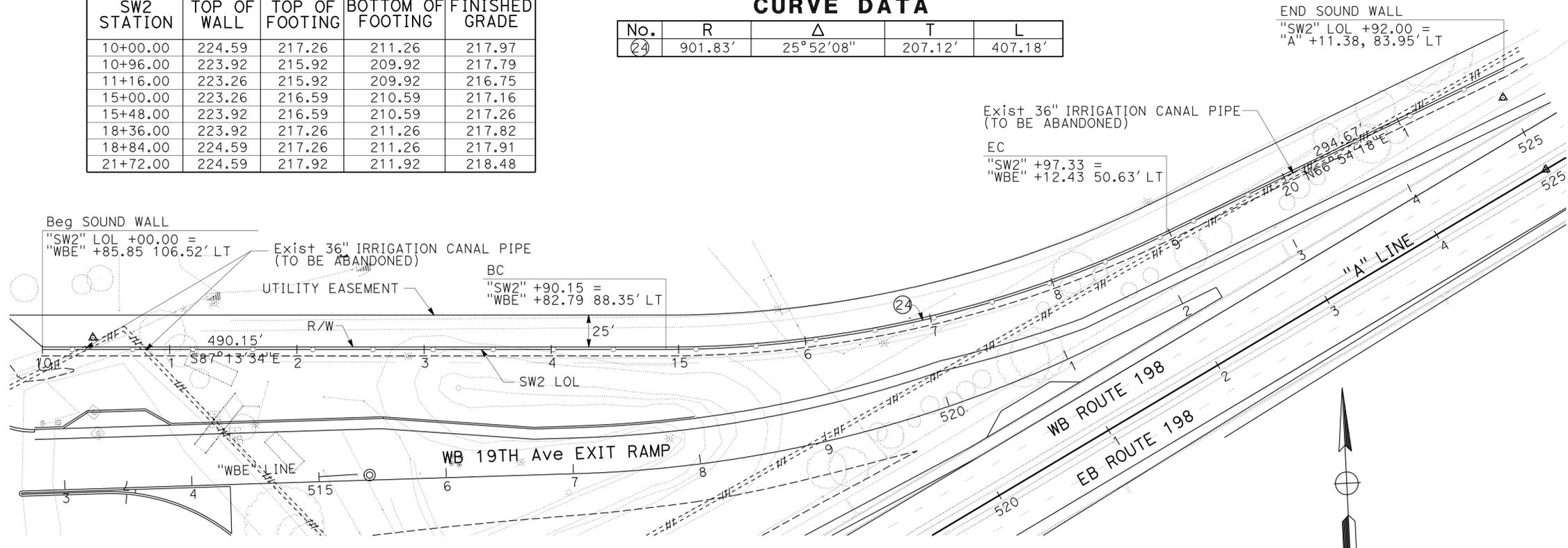
SOUND WALL ELEVATIONS

SW2 STATION	TOP OF WALL	TOP OF FOOTING	BOTTOM OF FOOTING	FINISHED GRADE
10+00.00	224.59	217.26	211.26	217.97
10+96.00	223.92	215.92	209.92	217.79
11+16.00	223.26	215.92	209.92	216.75
15+00.00	223.26	216.59	210.59	217.16
15+48.00	223.92	216.59	210.59	217.26
18+36.00	223.92	217.26	211.26	217.82
18+84.00	224.59	217.26	211.26	217.91
21+72.00	224.59	217.92	211.92	218.48

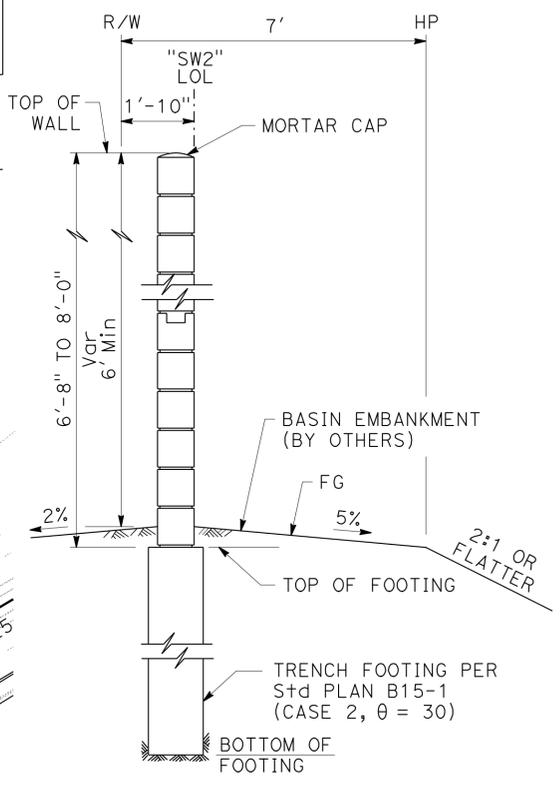
CURVE DATA

No.	R	Δ	T	L
24	901.83'	25°52'08"	207.12'	407.18'

END SOUND WALL
 "SW2" LOL +92.00 =
 "A" +11.38, 83.95' LT



PLAN
 SCALE: 1" = 50'



TYPICAL SECTION
 10+00.00 TO 21+92.00
 NO SCALE

SOUND WALL PLAN
(SOUND WALL No. 2)
SW-3

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR - WILLIAM NASCIMENTO
 CALCULATED-DESIGNED BY - CHECKED BY
 YOUICHI NAKAGAWA - MARK GONZALEZ
 REVISED BY - DATE REVISED

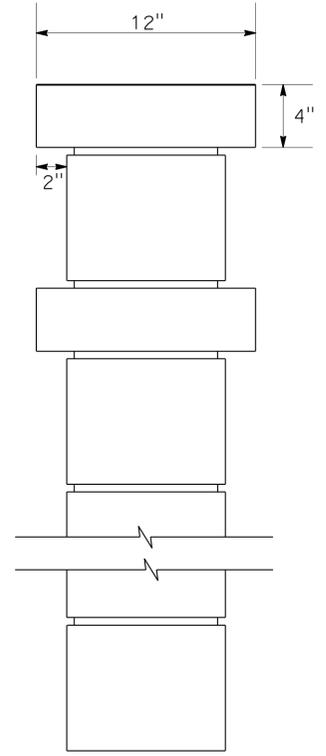
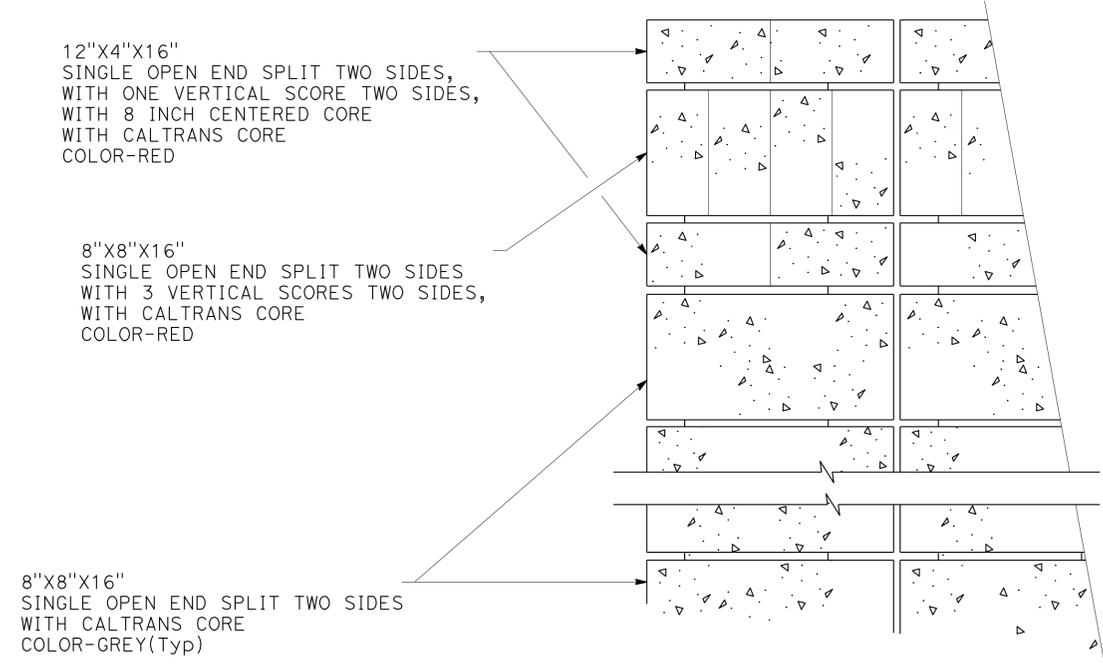
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	208	352

Stephen J. Mislinski 07-20-11
 REGISTERED CIVIL ENGINEER DATE
 11-28-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 STEPHEN J. MISLINSKI
 No. 61834
 Exp. 06-30-13
 CIVIL

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.

AECOM
 TECHNICAL SERVICES, Inc.
 2905 STENDER WAY, SUITE 82
 SANTA CLARA, CA 95054



TYPICAL SECTION

**SOUND WALL DETAILS
 (SOUND WALL No. 1 AND No. 2)
 SW-4**

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

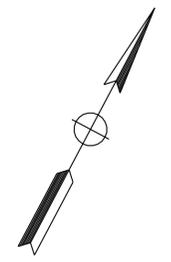
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR
 WILLIAM NASCIMENTO
 CALCULATED-DESIGNED BY
 CHECKED BY
 DANIEL TILLSON
 TIM HIRAOKA
 REVISED BY
 DATE REVISED

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SALVAGE THE FOLLOWING EQUIPMENT: CONTROLLERS AND CABINETS, GATE VALVES, BALL VALVES, QUICK COUPLER VALVES AND REMOTE CONTROL VALVES.
3. RELOCATE WATER METERS AND BACK FLOW PREVENTER ASSEMBLIES AND ENCLOSURES AS INDICATED ON PLANS.

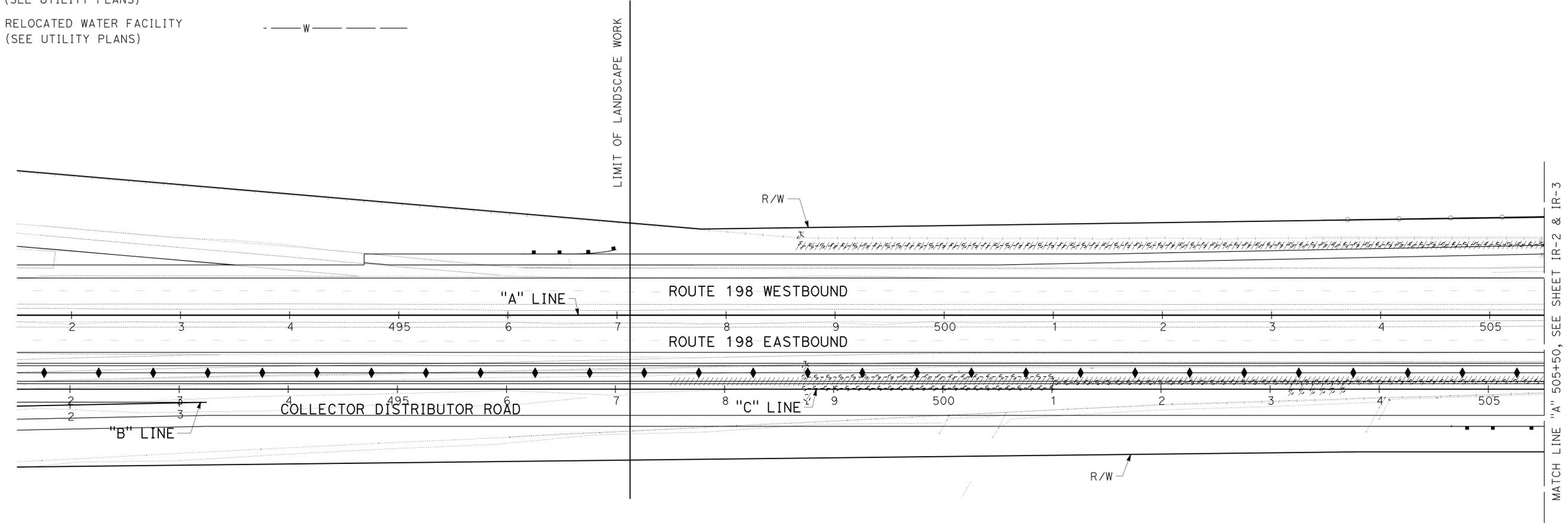
LEGEND:

- ABANDONED WATER FACILITY (SEE UTILITY PLANS)
- EXISTING WATER FACILITY (SEE UTILITY PLANS)
- RELOCATED WATER FACILITY (SEE UTILITY PLANS)



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	209	352

12-14-11
 LIC. LANDSCAPE ARCHITECT DATE
 11-28-11
 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.
 ORSEE DESIGN ASSOCIATES
 10365 OLD PLACERVILLE RD
 SUITE 240
 SACRAMENTO, CA 95827



THIS PLAN ACCURATE FOR IRRIGATION REMOVAL WORK ONLY.

IRRIGATION REMOVAL PLAN
 SCALE 1" = 50'
IR-1

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	210	352

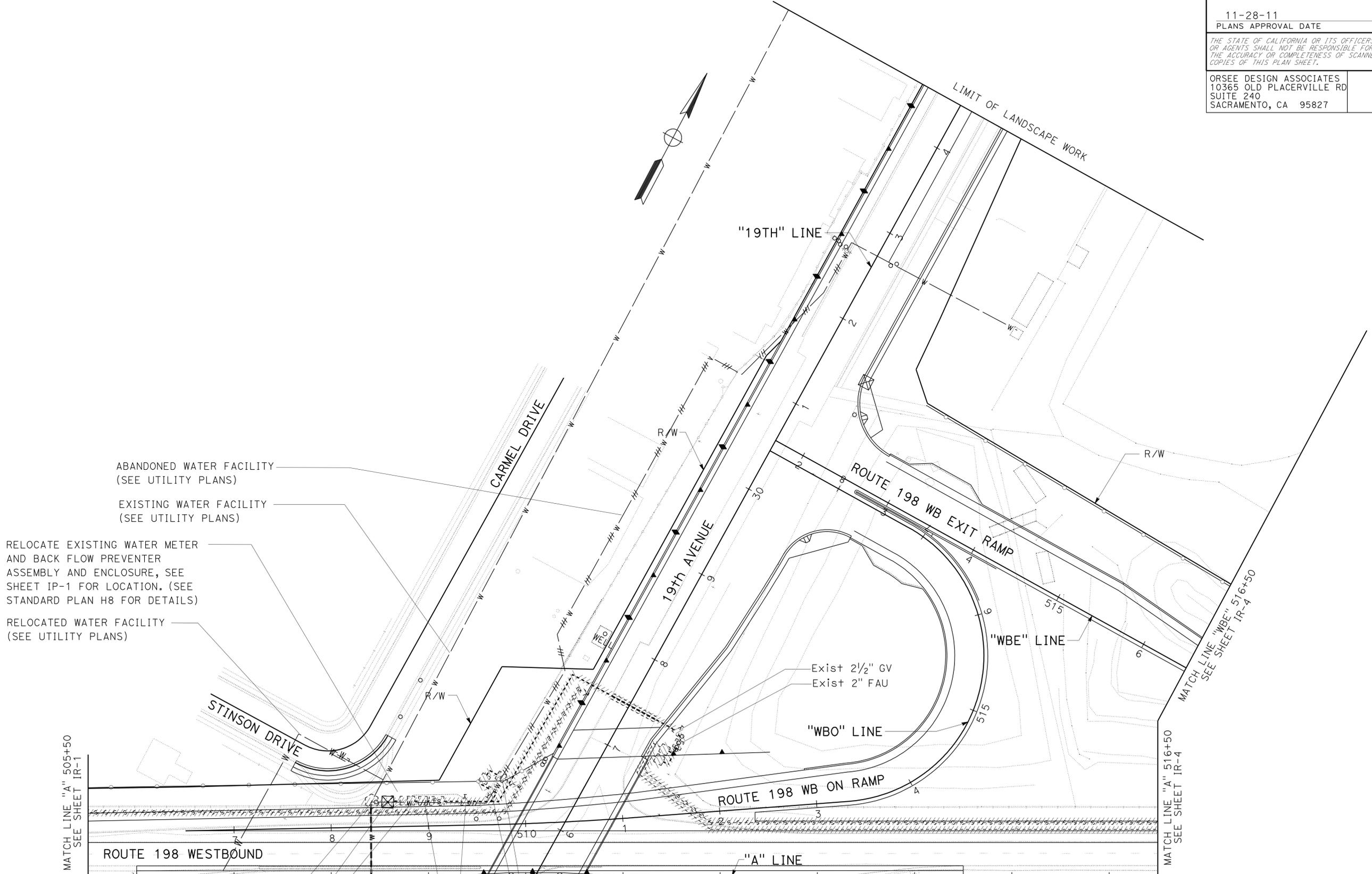
Justin Stewart
 LIC. LANDSCAPE ARCHITECT 12-14-11
 DATE

11-28-11
 PLANS APPROVAL DATE

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 10365 OLD PLACERVILLE RD
 SUITE 240
 SACRAMENTO, CA 95827

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT - FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
Caltrans	WILLIAM NASCIMENTO	CHECKED BY	DANIEL TILLSON	
			TIM HIRAOKA	



ABANDONED WATER FACILITY
 (SEE UTILITY PLANS)

EXISTING WATER FACILITY
 (SEE UTILITY PLANS)

RELOCATE EXISTING WATER METER
 AND BACK FLOW PREVENTER
 ASSEMBLY AND ENCLOSURE, SEE
 SHEET IP-1 FOR LOCATION. (SEE
 STANDARD PLAN H8 FOR DETAILS)

RELOCATED WATER FACILITY
 (SEE UTILITY PLANS)

MATCH LINE "A" 505+50
SEE SHEET IR-1

Exist
 IC 'D' 8 STATION
 3 STATIONS USED

Exist 2" WM
 Exist 2" RCVM
 Exist 2 1/2" GV

Exist 2" FAU
 Exist 2 1/2" GV

THIS PLAN ACCURATE FOR IRRIGATION REMOVAL WORK ONLY.

IRRIGATION REMOVAL PLAN
IR-2

SCALE 1" = 50'

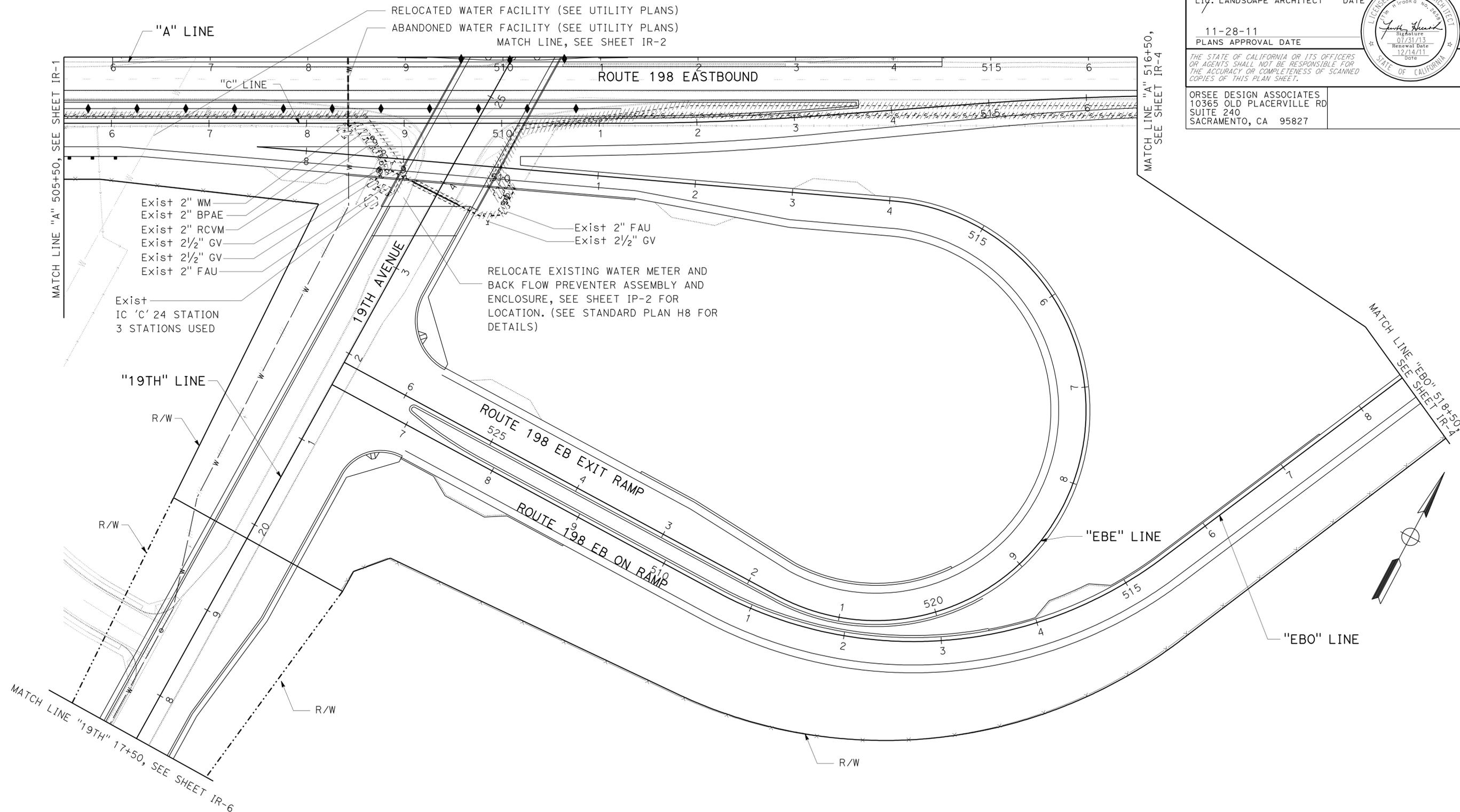
NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	211	352

Justin Stewart
 LIC. LANDSCAPE ARCHITECT
 DATE 12-14-11
 11-28-11
 PLANS APPROVAL DATE
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 SUITE 240
 SACRAMENTO, CA 95827



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
Caltrans	DANIEL TILLSON	11-28-11
	TIM HIRAKA	
CONSULTANT - FUNCTIONAL SUPERVISOR	CHECKED BY	
WILLIAM NASCIMENTO		
DESIGNED BY		

THIS PLAN ACCURATE FOR IRRIGATION REMOVAL WORK ONLY.

IRRIGATION REMOVAL PLAN
IR-3
 SCALE 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT: FUNCTIONAL SUPERVISOR
 WILLIAM NASCIMENTO
 CALCULATED/DESIGNED BY
 CHECKED BY
 DANIEL TILLSON
 TIM HIRAOKA
 REVISED BY
 DATE REVISED

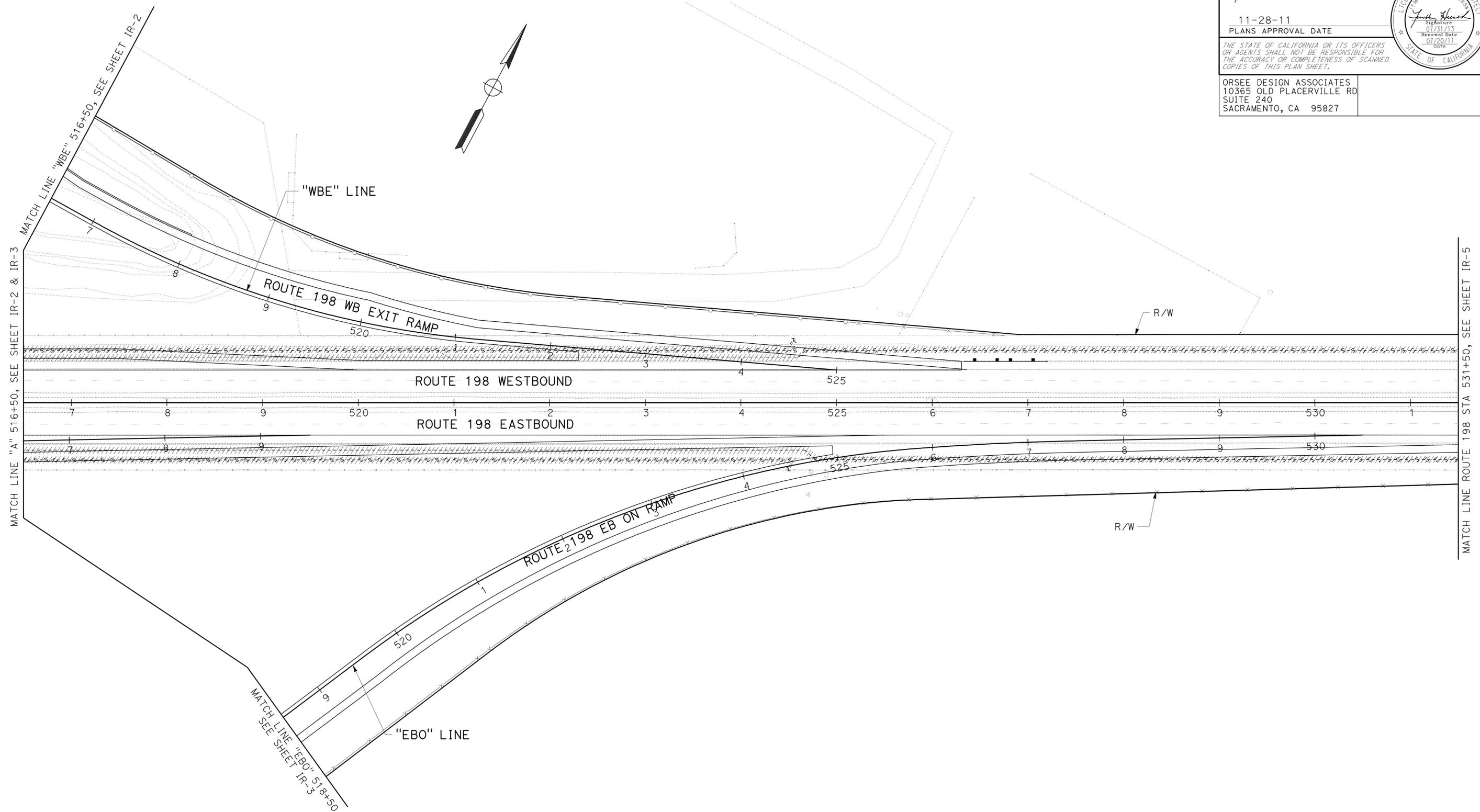
NOTE:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	212	352

11-28-11
 PLANS APPROVAL DATE
 07-20-11
 DATE
 LIC. LANDSCAPE ARCHITECT
 SIGNATURE
 07/31/13
 Renewal Date
 07/20/11
 Date
 STATE OF CALIFORNIA

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 SUITE 240
 SACRAMENTO, CA 95827



IRRIGATION REMOVAL PLAN
IR-4

THIS PLAN ACCURATE FOR IRRIGATION REMOVAL WORK ONLY.

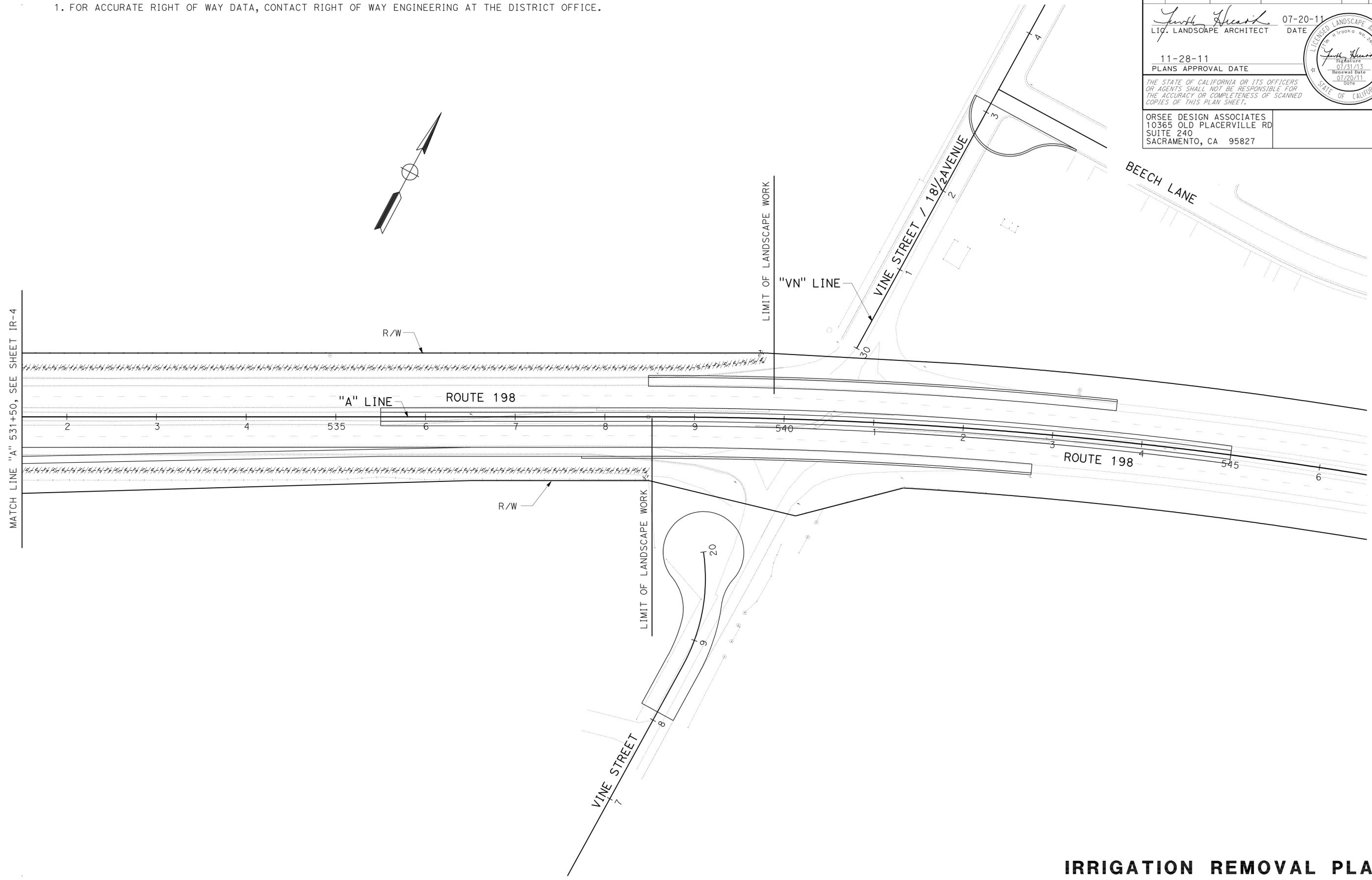
SCALE 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT: FUNCTIONAL SUPERVISOR
 WILLIAM MASCIMENTO
 CALCULATED/DESIGNED BY
 DANIEL TILLSON
 CHECKED BY
 TIM HIRAOKA
 REVISED BY
 DATE REVISD

NOTE:
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	213	352

07-20-11
 LIC. LANDSCAPE ARCHITECT DATE
 11-28-11
 PLANS APPROVAL DATE
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 SUITE 240
 SACRAMENTO, CA 95827



THIS PLAN ACCURATE FOR IRRIGATION REMOVAL WORK ONLY.

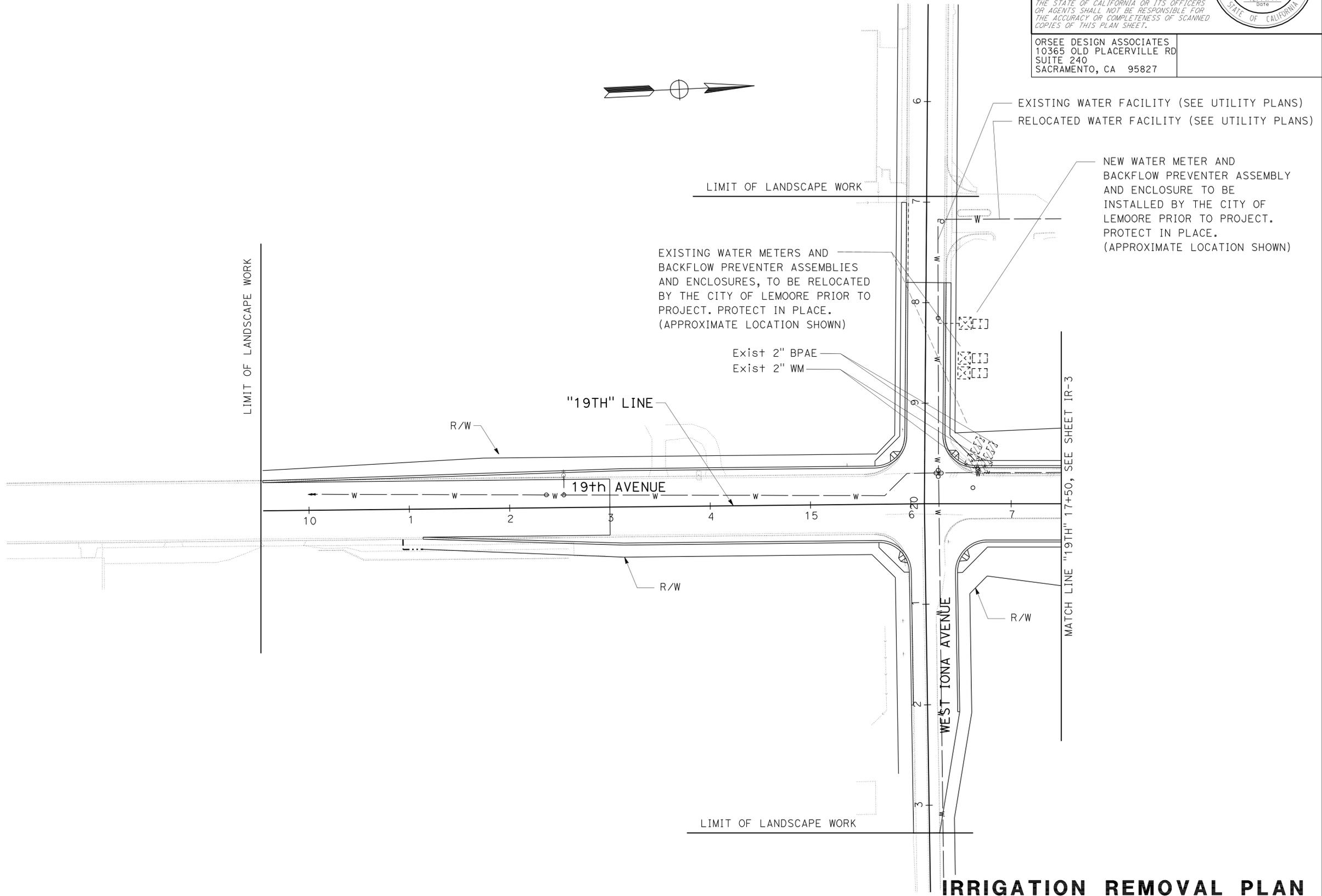
IRRIGATION REMOVAL PLAN
 SCALE 1" = 50'
IR-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR: WILLIAM NASCIMENTO
 CALCULATED/DESIGNED BY: DANIEL TILLSON
 CHECKED BY: TIM HIRAOKA
 REVISIONS: REVISED BY, DATE, REVISED, DATE, REVISED

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	214	352

12-14-11
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 SUITE 240
 SACRAMENTO, CA 95827

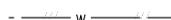
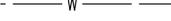


THIS PLAN ACCURATE FOR IRRIGATION REMOVAL WORK ONLY.

IRRIGATION REMOVAL PLAN
 SCALE 1" = 50'
IR-6

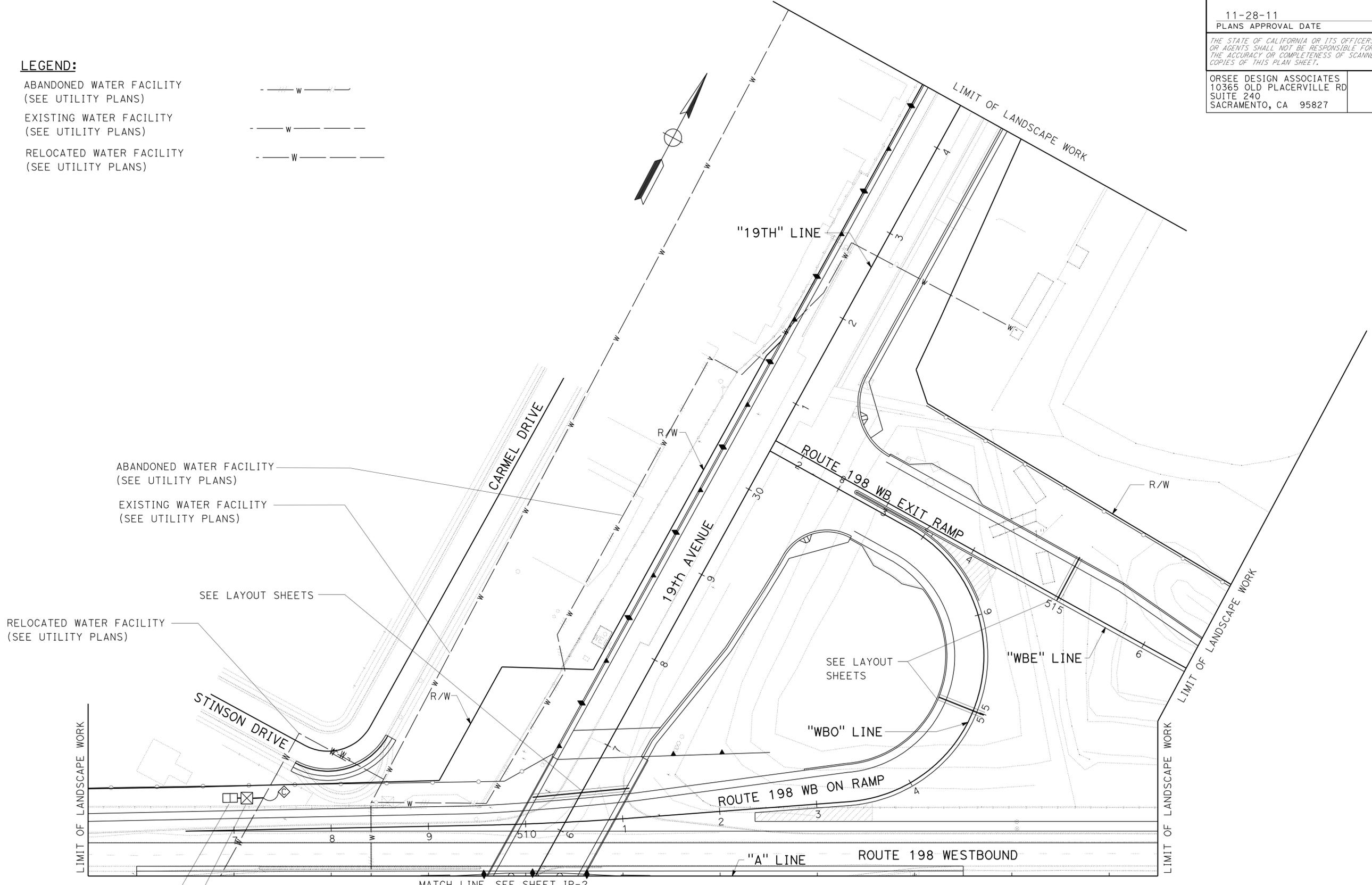
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT - FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
Caltrans	WILLIAM NASCIMENTO	CHECKED BY	DANIEL TILLSON
			TIM HIRAOKA

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

LEGEND:
 ABANDONED WATER FACILITY (SEE UTILITY PLANS) 
 EXISTING WATER FACILITY (SEE UTILITY PLANS) 
 RELOCATED WATER FACILITY (SEE UTILITY PLANS) 

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	215	352

12-14-11
 LIC. LANDSCAPE ARCHITECT DATE
 11-28-11
 PLANS APPROVAL DATE
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 SUITE 240
 SACRAMENTO, CA 95827

RELOCATED 2" BP&E
 RELOCATED 2" WM

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY.

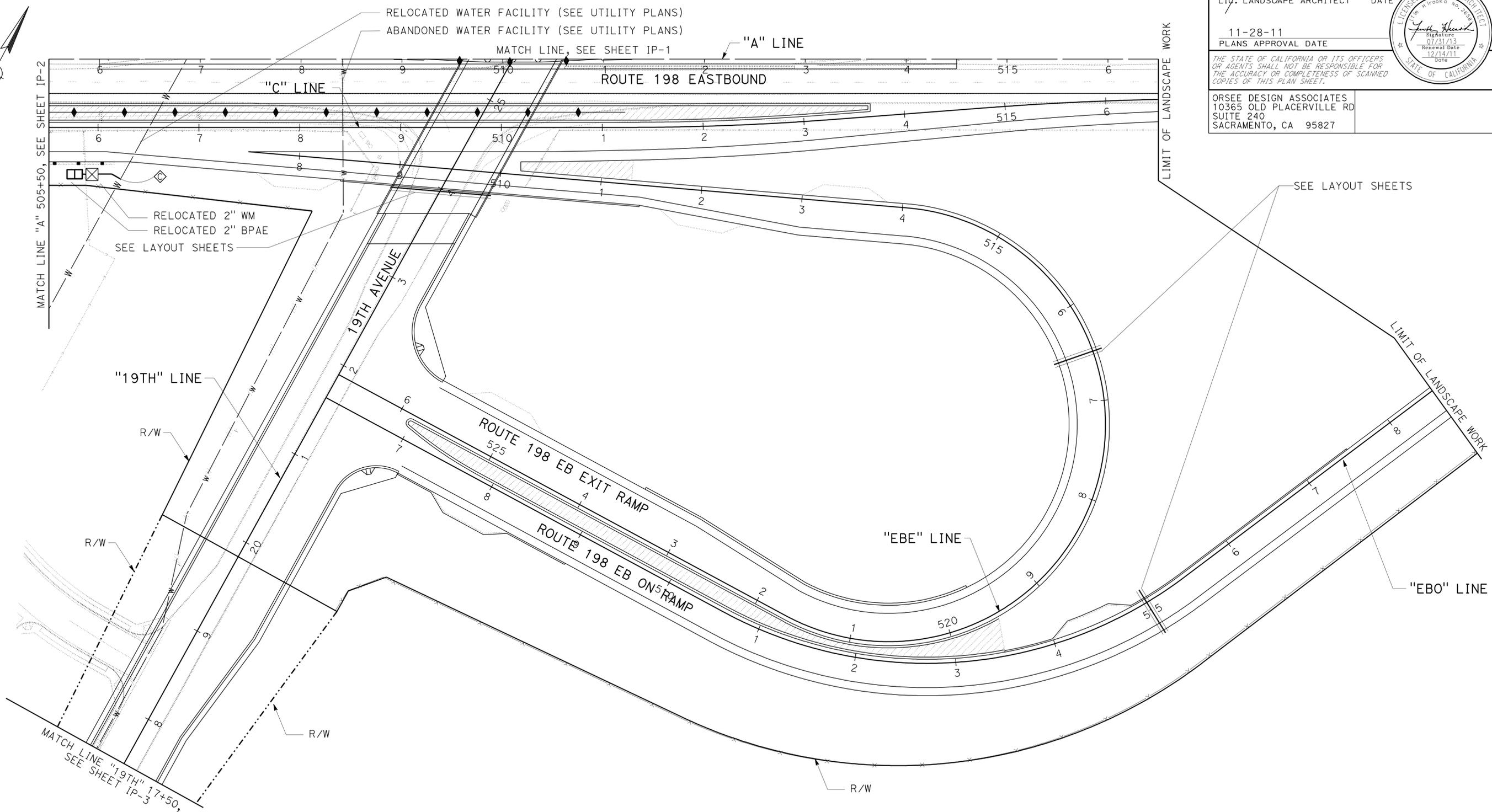
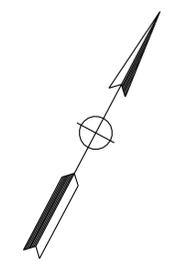
IRRIGATION PLAN
IP-1
 SCALE 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT: FUNCTIONAL SUPERVISOR: WILLIAM NASCIMENTO
 DESIGNED BY: DANIEL TILLSON
 CHECKED BY: TIM HIRAOKA
 REVISIONS: REVISOR: DATE: REVISIONS: REVISOR: DATE:
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NOTE:
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	216	352

12-14-11
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 SUITE 240
 SACRAMENTO, CA 95827



THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY.

IRRIGATION PLAN
 SCALE 1" = 50'
IP-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	217	352

07-20-11
 REGISTERED CIVIL ENGINEER DATE
 11-28-11
 PLANS APPROVAL DATE
 WILLIAM SUN
 No. C57664
 Exp. 12/31/11
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER

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.

LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765

NOTES: (FOR SHEETS E-2 TO E-11 ONLY)

1 EXISTING 240/480 V TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH 3P, 100 A MAIN CIRCUIT BREAKER AND THE FOLLOWING CIRCUITS:

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
40	480	2	LIGHTING-NORTH	NO	IV
40	480	2	LIGHTING-SOUTH	NO	IV
40	480	2	LIGHTING-EAST	NO	IV
30	480	2	SIGN LIGHTING	NO	-
20	240	1	SOFFIT LIGHTING	NO	V
15	120	1	LIGHTING CONTROL	NO	-

- 2 EXISTING 1 1/2" C, RC ALL EXISTING CONDUCTORS. INSTALL 2#6 FOR SIGN ILLUMINATION.
- 3 2" C, 2#6 (LIGHTING), 2#8 (SIGN ILLUMINATION).
- 4 2" C, 2#6 (LIGHTING).
- 5 3" C, 2#6 (LIGHTING).
- 6 2" C, 2#6 (SIGN ILLUMINATION).
- 7 120/240 V TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

CTID 06451980009430T

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
60	120	1	TRAFFIC SIGNAL	YES	-
20	120	1	FLASHING BEACON	YES	-
20	120	1	SPARE	YES	-
-	-	6	SPACES	-	-

CTID 06451980009430L

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
40	240	2	HIGHWAY LIGHTING	YES	V
40	240	2	SIGN ILLUMINATION	YES	-
30	240	2	LIGHTING	YES	V
20	120	1	IRRIGATION	YES	-
15	120	1	LIGHTING CONTROL	YES	-
20	120	1	SPARE	YES	-
40	240	2	SPARE	YES	-
-	-	6	SPACES	-	-

- 8 COIL 10 FEET OF IRRIGATION CONDUCTORS IN PULL BOX.
- 9 1/4" C, 2#8 (CITY LIGHTING).
- 10 2" C, 2#8 (CITY LIGHTING).
- 11 3" C, MT PER PG&E REQUIREMENT, CONDUCTORS TO BE INSTALLED BY PG&E.
- 12 RS TO CITY YARD.
- 13 INSTALL 2" C RISER ON EXISTING POWER POLE.
- 14 2" C, 2#6 (LIGHTING), 2#8 (SIGN ILLUMINATION).
- 15 3" C, 2#6 (LIGHTING), 2#6 (SIGN ILLUMINATION).
- 16 EXISTING 1 1/2" C, 2#6 (LIGHTING-SOUTH), 2#8 (SIGN ILLUMINATION).
- 17 EXISTING 2" C, 2#8 (LIGHTING-SOUTH).
- 18 EXISTING 1 1/2" C, 2#6 (LIGHTING-SOUTH).
- 19 120/240 V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

CTID 06451980009050L

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
40	240	2	SIGN ILLUMINATION EB	YES	-
40	240	2	SIGN ILLUMINATION WB	YES	-
40	240	2	HIGHWAY LIGHTING EB	YES	V
40	240	2	HIGHWAY LIGHTING WB	YES	V
15	120	1	LIGHTING CONTROL	YES	-
20	120	1	SPARE	YES	-
-	-	6	SPACES	-	-

- 20 3" C, 2#6 (LIGHTING), 2#6 (SIGN ILLUMINATION), 2#8 (IRRIGATION).
- 21 3" C, 2#6 (LIGHTING), 2#8 (IRRIGATION).
- 22 2" C, 2#6 (LIGHTING), 2#8 (IRRIGATION).
- 23 2" C, 2#8 (IRRIGATION).
- 24 2" C, 2#6 (LIGHTING), 2#6 (SIGN ILLUMINATION), 2#8 (IRRIGATION).
- 25 EXISTING 2" C, 2#6 (LIGHTING-SOUTH).
- 26 120/240 V TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

CTID 06451980009511T

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
60	120	1	TRAFFIC SIGNAL	YES	-
20	120	1	SPARE	YES	-
-	-	6	SPACES	-	-

CTID 06451980009511L

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
40	240	2	HIGHWAY LIGHTING	YES	V
40	240	2	SIGN ILLUMINATION	YES	-
30	240	2	LIGHTING	YES	V
20	120	1	IRRIGATION	YES	-
15	120	1	LIGHTING CONTROL	YES	-
20	120	1	SPARE	YES	-
40	240	2	SPARE	YES	-
-	-	6	SPACES	-	-

- 27 3" C, 4#6 (LIGHTING), 4#6 (SIGN ILLUMINATION).
- 28 3" C, 2#6 (SIGN ILLUMINATION).
- 29 EXISTING 1 1/2" C, 2#8 (LIGHTING-SOUTH).
- 30 EXISTING 2" C, 2#6 (LIGHTING-SOUTH), 2#8 (SOFFIT LIGHTING), 2#8 (SIGN ILLUMINATION).
- 31 EXISTING 1 1/2" C, 2#6 (LIGHTING-SOUTH), 2#8 (SOFFIT LIGHTING), 2#8 (SIGN ILLUMINATION).
- 32 EXISTING 2" C, 2#8 (SOFFIT LIGHTING).
- 33 EXISTING 2" C, MT.
- 34 EXISTING 1 1/2" C, 2#8 (LIGHTING-NORTH).
- 35 EXISTING 2" C, 2#6 (LIGHTING-SOUTH), 2#8 (LIGHTING-NORTH), 2#8 (SOFFIT LIGHTING), 2#8 (SIGN ILLUMINATION).
- 36 EXISTING 1 1/2" C, 2#8 (LIGHTING-NORTH), 2#8 (SIGN ILLUMINATION).
- 37 EXISTING 3" C, 3#2 (SERVICE CONDUCTORS).
38. ALL EXISTING EQUIPMENT SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.
39. ALL PULL BOXES SHALL BE No. 5(E) UNLESS OTHERWISE NOTED.

ABBREVIATIONS:

CTID CALTRANS IDENTIFICATION
 PG&E PACIFIC GAS AND ELECTRIC COMPANY

LEGEND:

 CITY LIGHT AS SHOWN ON SHEET E-10, E-11 AND E-18. SEE E-11 FOR DETAIL.

 BICYCLE DETECTOR LOOP AS SHOWN ON E-13, E-15 AND E-17. SEE E-12 FOR DETAIL.

**LIGHTING AND SIGN ILLUMINATION
 LIGHTING (CITY STREET)
 SIGNAL AND LIGHTING (LOCATIONS 1 AND 2)
 (GENERAL NOTES, PROJECT
 NOTES AND INDEX)**

NO SCALE

E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT: FUNCTIONAL SUPERVISOR
 WILLIAM NASCIMENTO
 CHECKED BY
 RYAN WOO
 WILLIAM SUN
 DESIGNED BY
 RYAN WOO
 WILLIAM SUN
 REVISIONS:
 1. REVISED BY
 DATE
 2. REVISED BY
 DATE

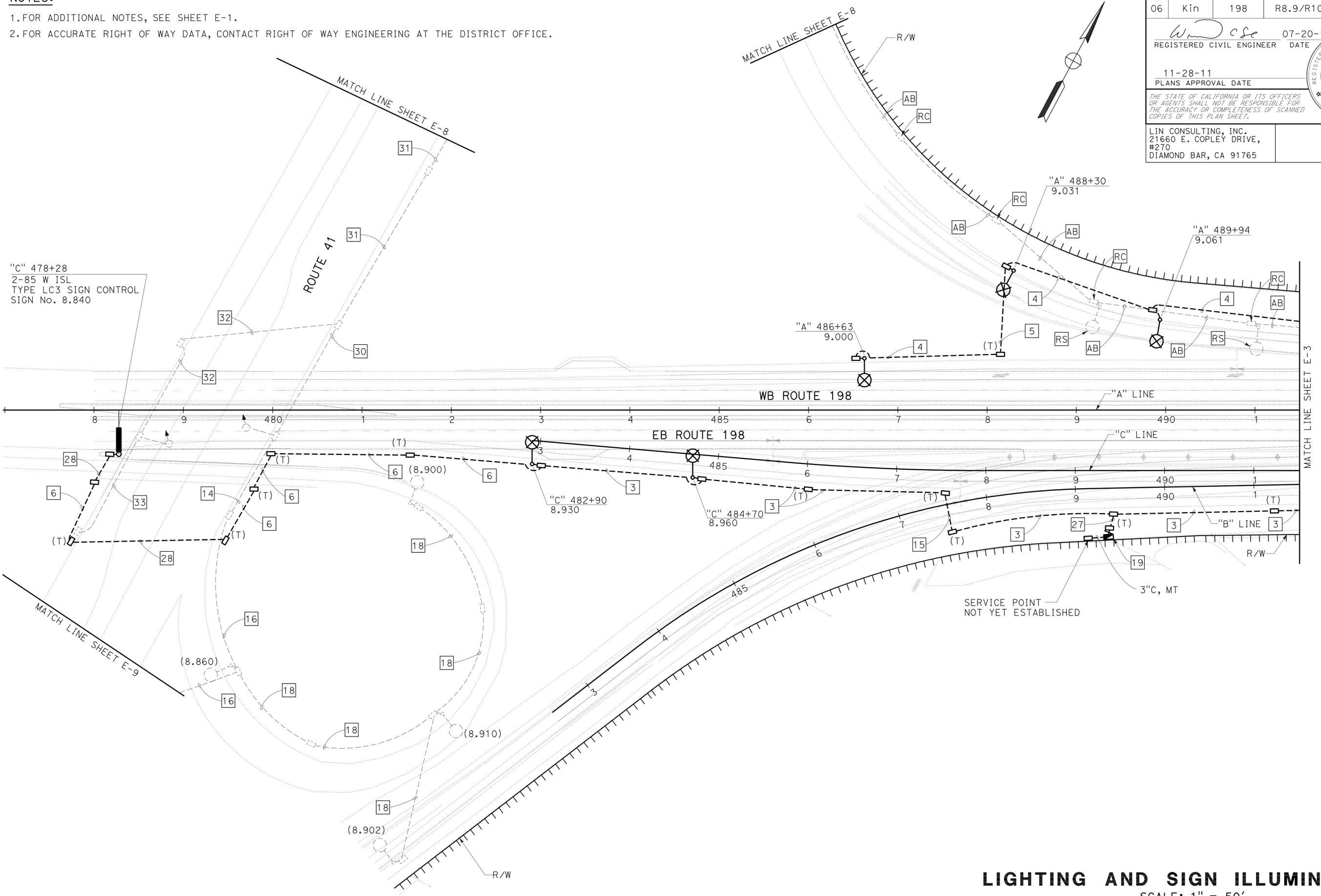
NOTES:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	218	352

W.C.S. 07-20-11
 REGISTERED CIVIL ENGINEER DATE
 11-28-11
 PLANS APPROVAL DATE
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 LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765

REGISTERED PROFESSIONAL ENGINEER
 WILLIAM SUN
 No. C57664
 Exp. 12/31/11
 CIVIL
 STATE OF CALIFORNIA



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

LIGHTING AND SIGN ILLUMINATION
 SCALE: 1" = 50'
E - 2

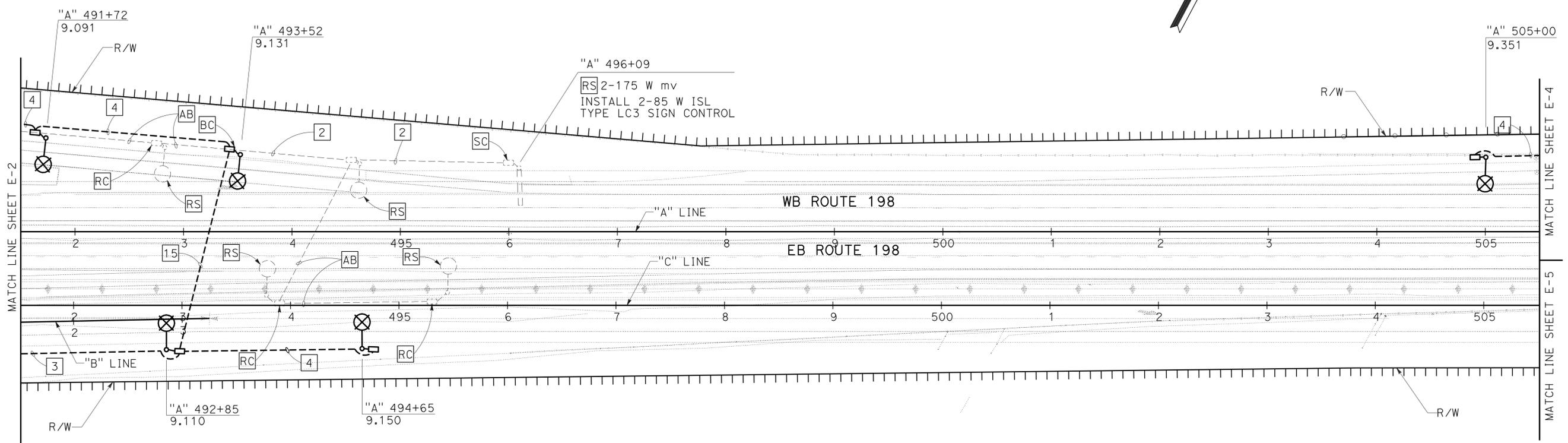
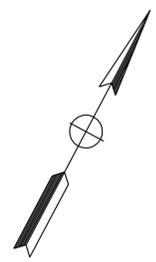
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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 CALCULATED-DESIGNED BY
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 RYAN WOO
 WILLIAM SUN
 REVISED BY
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 Exp. 12/31/11
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 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.
 LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765



LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

E - 3

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

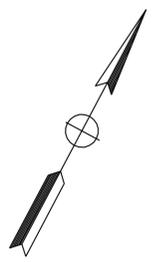
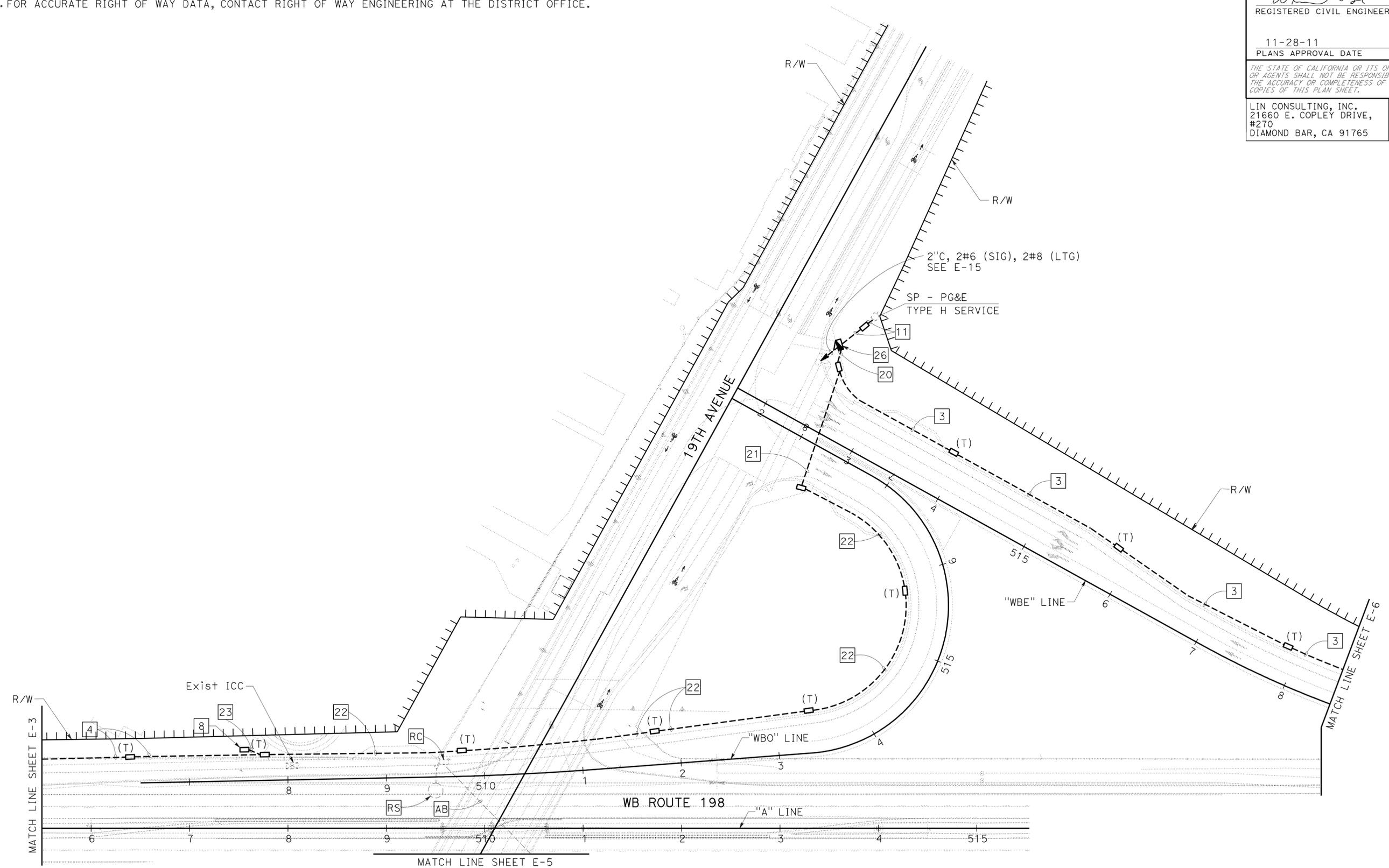
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT: FUNCTIONAL SUPERVISOR: WILLIAM NASCIMENTO
 CALCULATED/DESIGNED BY: CHECKED BY:
 RYAN WOO WILLIAM SUN
 REVISED BY: DATE REVISED:

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

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07-20-11
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 LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765

REGISTERED PROFESSIONAL ENGINEER
 WILLIAM SUN
 No. C57664
 Exp. 12/31/11
 CIVIL
 STATE OF CALIFORNIA



**LIGHTING AND SIGN ILLUMINATION
 ELECTRIC SERVICE (IRRIGATION)**

SCALE: 1" = 50'

E - 4

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

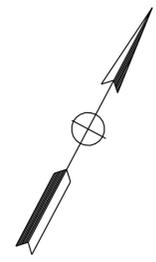
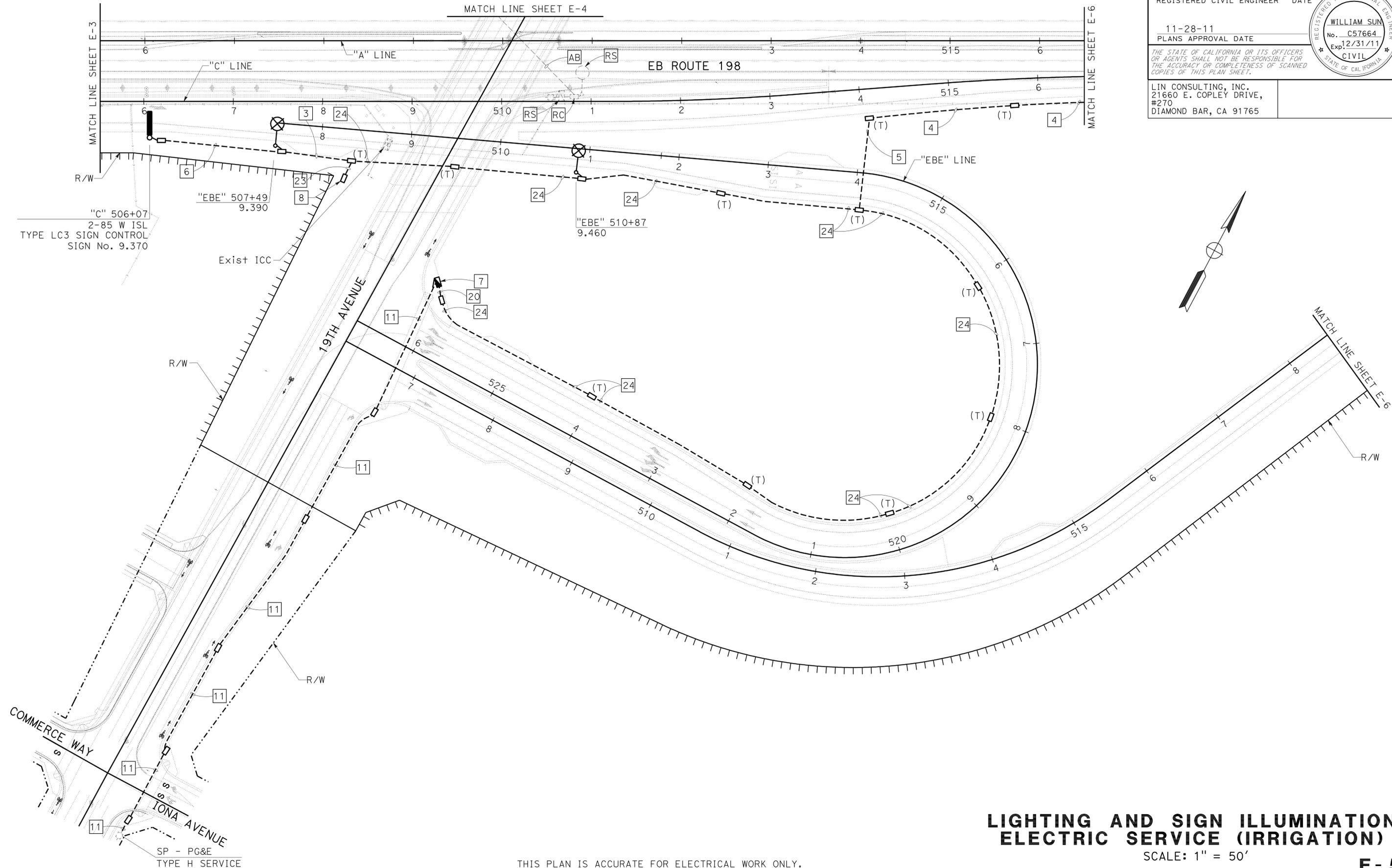
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR: WILLIAM NASCIMENTO
 CHECKED BY: WILLIAM SUN
 DESIGNED BY: RYAN WOO
 REVISIONS: (None listed)

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	221	352

REGISTERED CIVIL ENGINEER: *William Sun*
 DATE: 07-20-11
 PLANS APPROVAL DATE: 11-28-11
 REGISTERED PROFESSIONAL ENGINEER: WILLIAM SUN
 No. C57664
 Exp. 12/31/11
 CIVIL
 STATE OF CALIFORNIA

LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765



**LIGHTING AND SIGN ILLUMINATION
 ELECTRIC SERVICE (IRRIGATION)**

SCALE: 1" = 50'

E - 5

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s121614
 DGN FILE => 632550u0005.dgn

CU 06253

EA 325501

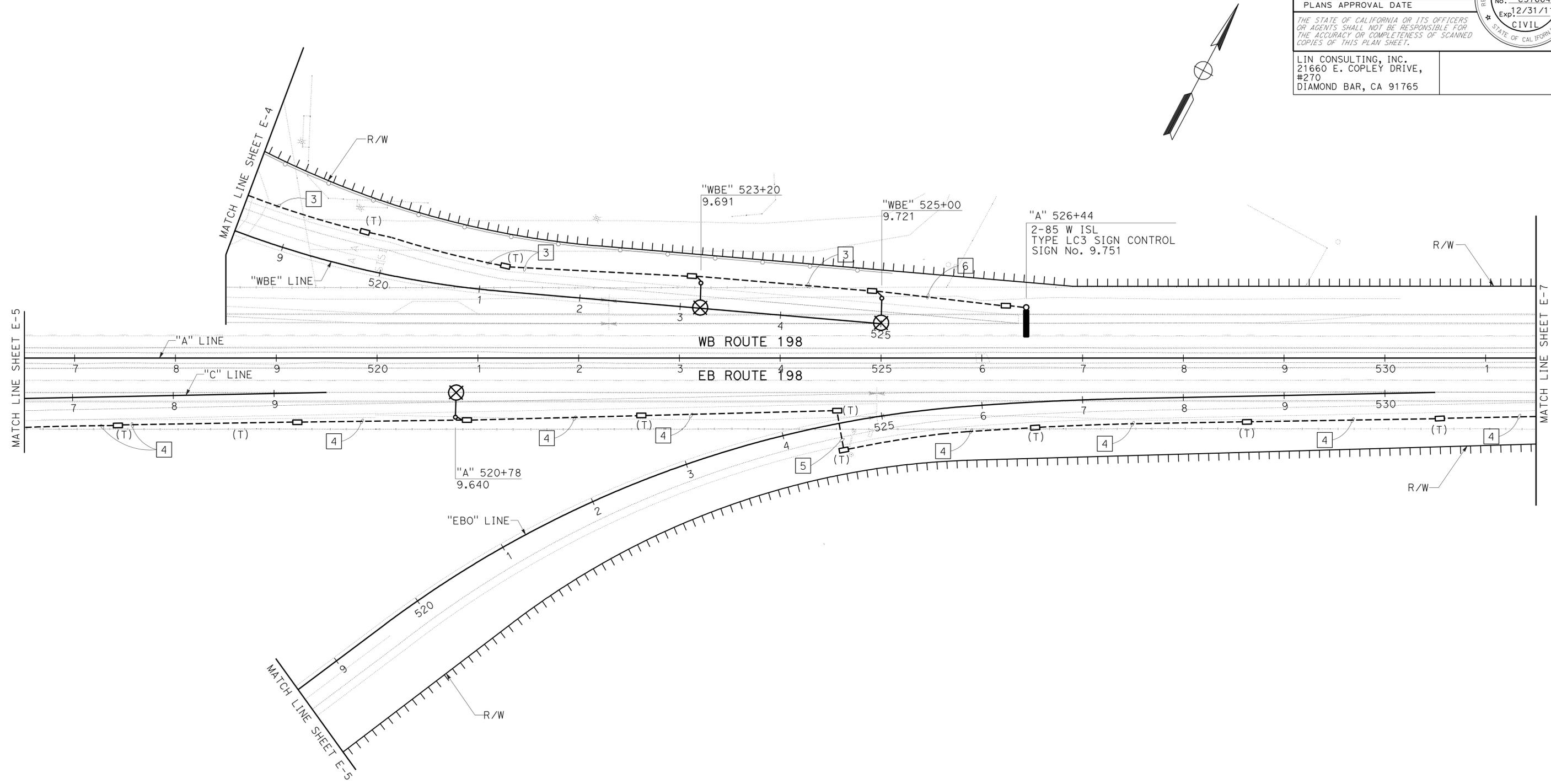
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR
 WILLIAM NASCIMENTO
 CHECKED BY
 WILLIAM SUN
 DESIGNED BY
 RYAN WOO
 REVISIONS:
 DATE REVISIONS
 DATE REVISIONS
 DATE REVISIONS

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	222	352

W. C. Se 07-20-11
 REGISTERED CIVIL ENGINEER DATE
 11-28-11
 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.
 LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765

REGISTERED PROFESSIONAL ENGINEER
 WILLIAM SUN
 No. C57664
 Exp. 12/31/11
 CIVIL
 STATE OF CALIFORNIA



LIGHTING AND SIGN ILLUMINATION
 SCALE: 1" = 50'
E - 6

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR
 WILLIAM NASCIMENTO
 CALCULATED-DESIGNED BY
 CHECKED BY
 RYAN WOO
 WILLIAM SUN
 REVISED BY
 DATE REVISED

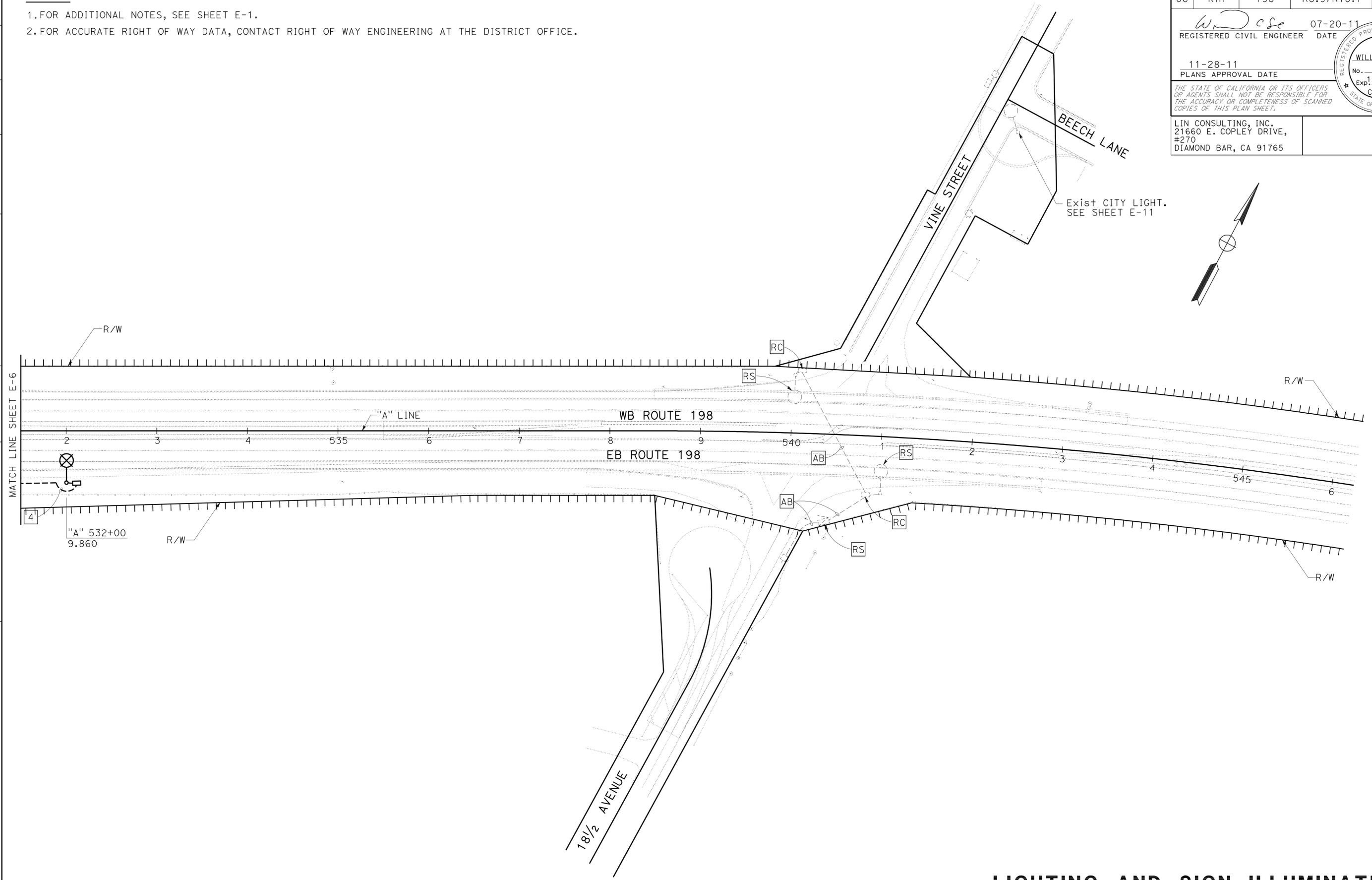
NOTES:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	223	352

W. C. Se 07-20-11
 REGISTERED CIVIL ENGINEER DATE
 11-28-11
 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.
 LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765

REGISTERED PROFESSIONAL ENGINEER
 WILLIAM SUN
 No. C57664
 Exp. 12/31/11
 CIVIL
 STATE OF CALIFORNIA



LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

E - 7

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



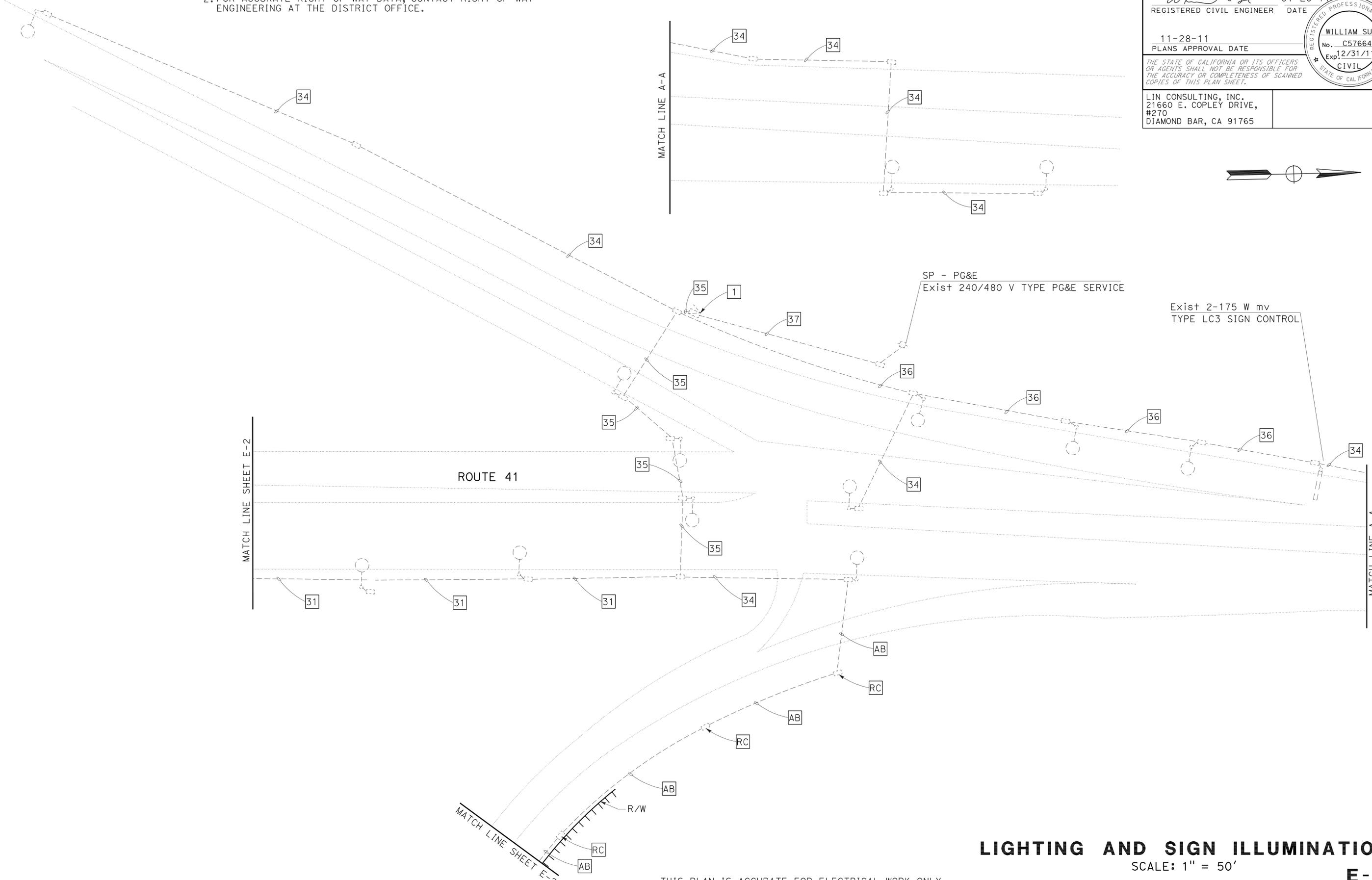
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR: WILLIAM NASCIMENTO
 CALCULATED/DESIGNED BY: RYAN WOO
 CHECKED BY: WILLIAM SUN
 REVISED BY: RYAN WOO
 DATE REVISED: WILLIAM SUN

NOTES:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	224	352

07-20-11
 REGISTERED CIVIL ENGINEER DATE
 11-28-11
 PLANS APPROVAL DATE
 WILLIAM SUN
 No. C57664
 Exp. 12/31/11
 CIVIL
 STATE OF CALIFORNIA
 LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765



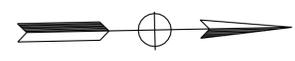
LIGHTING AND SIGN ILLUMINATION
 SCALE: 1" = 50'
E - 8

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT: FUNCTIONAL SUPERVISOR: WILLIAM NASCIMENTO
 CALCULATED/DESIGNED BY: CHECKED BY:
 RYAN WOO WILLIAM SUN
 REVISED BY: DATE REVISED:

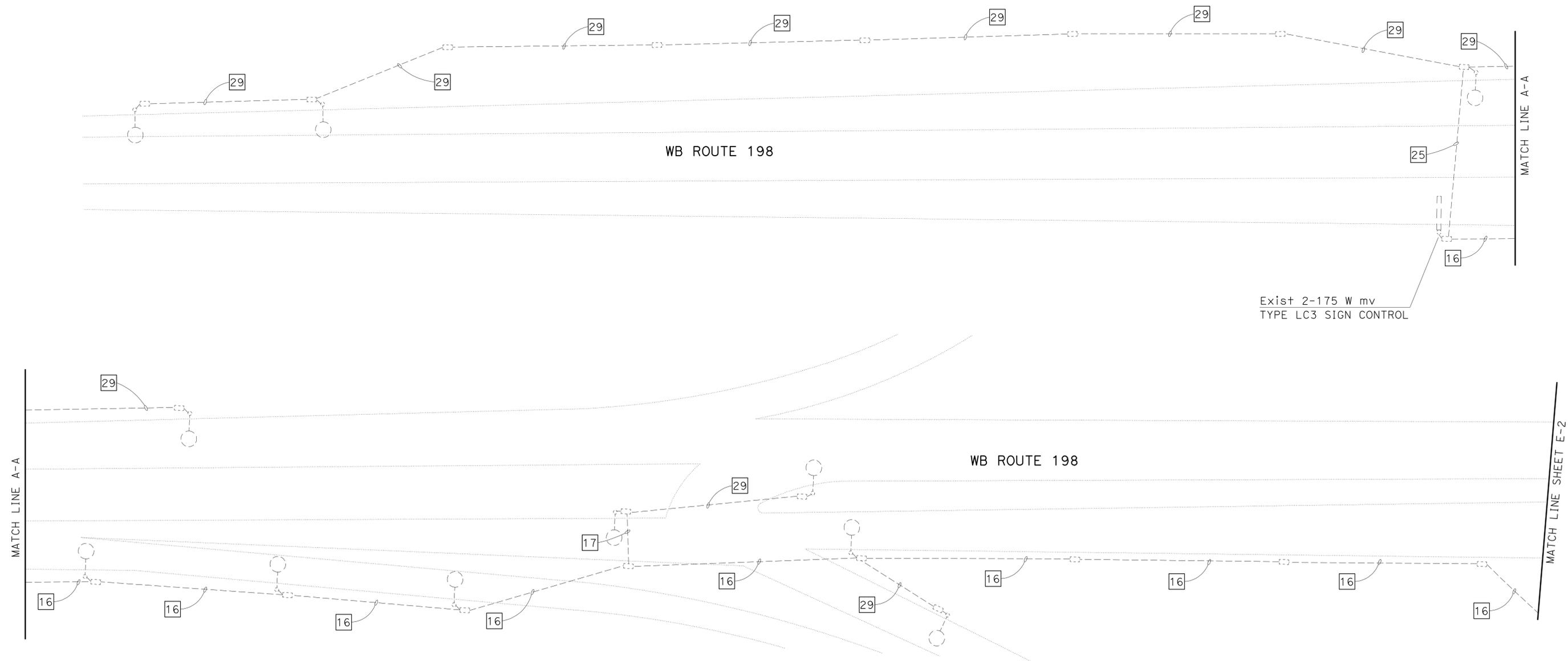
NOTES:

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



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	225	352

W. J. C. S. 07-20-11
 REGISTERED CIVIL ENGINEER DATE
 11-28-11
 PLANS APPROVAL DATE
 WILLIAM SUN
 No. C57664
 Exp. 12/31/11
 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.
 LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

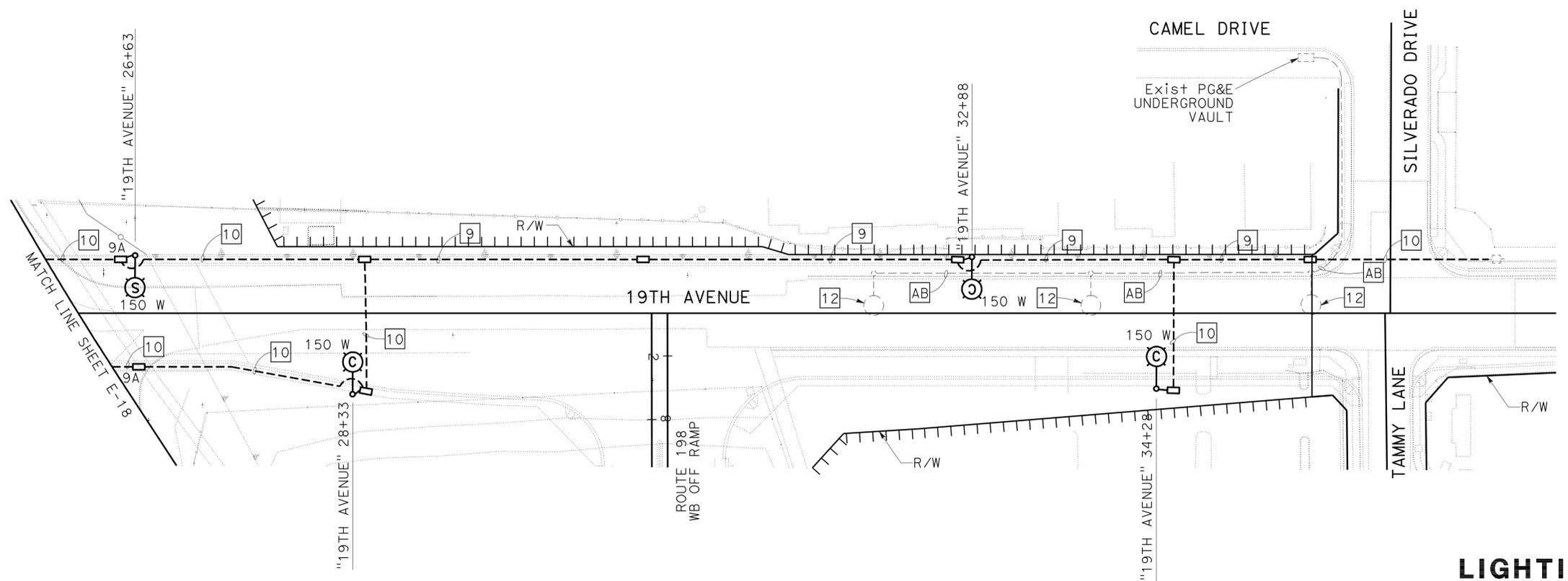
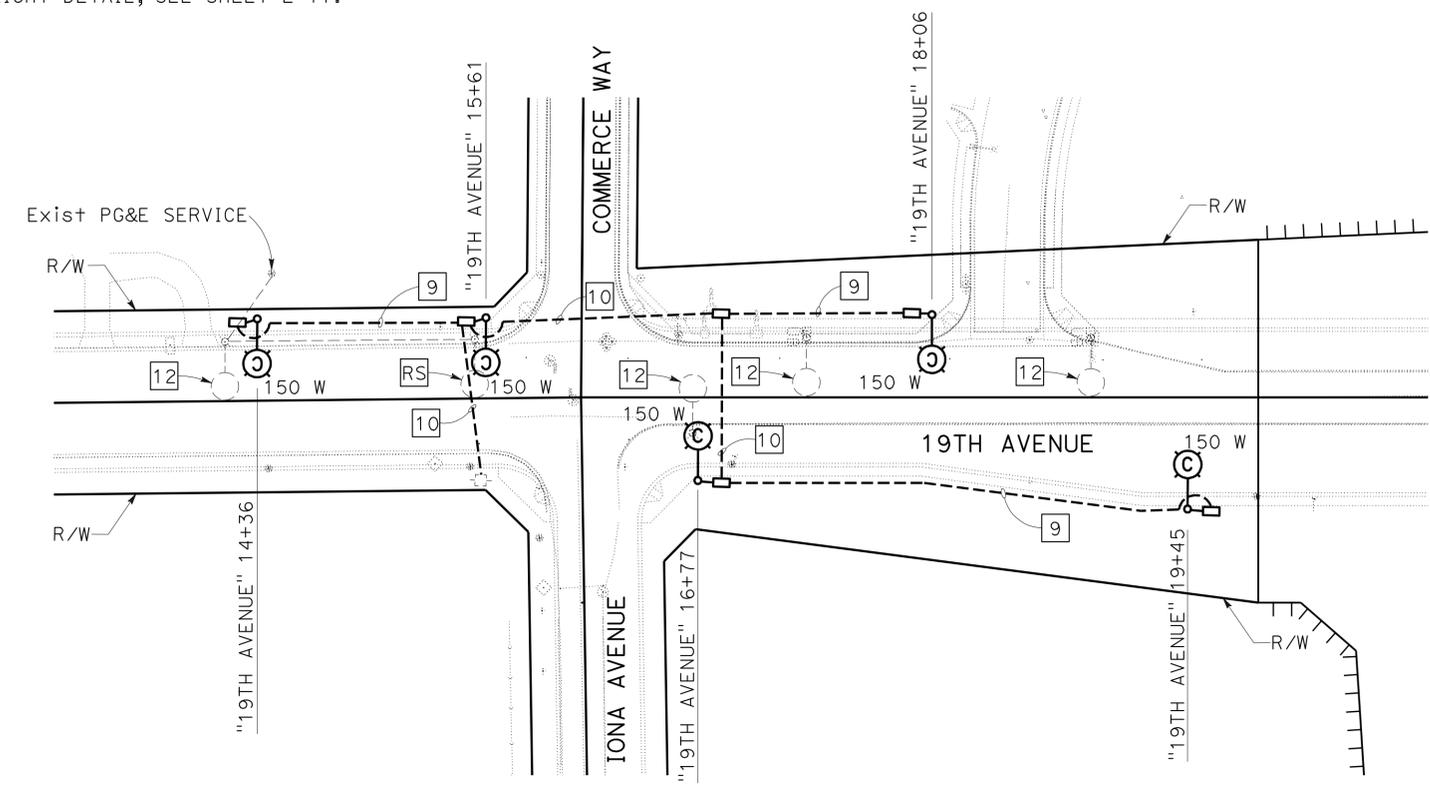
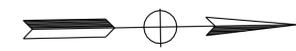


LIGHTING AND SIGN ILLUMINATION
 SCALE: 1" = 50'
E - 9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR: WILLIAM NASCIMENTO
 CALCULATED/DESIGNED BY: CHECKED BY: WILLIAM SUN
 REVISED BY: DATE REVISED: RYAN WOO

NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET E-1.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. FOR CITY LIGHT DETAIL, SEE SHEET E-11.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	226	352
W. C. S. 07-20-11 REGISTERED CIVIL ENGINEER DATE			11-28-11 PLANS APPROVAL DATE		
WILLIAM SUN No. C57664 Exp. 12/31/11 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.		
LIN CONSULTING, INC. 21660 E. COPLEY DRIVE, #270 DIAMOND BAR, CA 91765					

LIGHTING (CITY STREET)
 SCALE: 1" = 50'
E-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	228	352

W. C. Se 07-20-11
 REGISTERED CIVIL ENGINEER DATE

11-28-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 WILLIAM SUN
 No. C57664
 Exp. 12/31/11
 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.

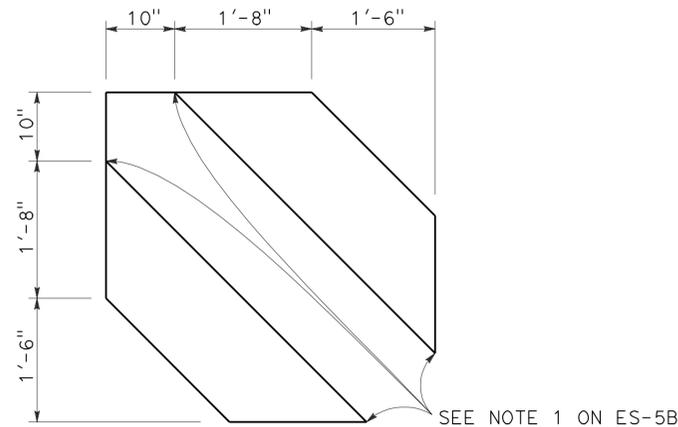
LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765

NOTES: (FOR SHEETS E-12 AND E-13 ONLY)

- 1 120/240 V TYPE III-CF SERVICE EQUIPMENT ENCLOSURE. SEE SHEET E-5 FOR INSTALLATION.
- 2 STATE-FURNISHED MODEL 2070 CONTROLLER ASSEMBLY AND BATTERY BACKUP SYSTEM.
- 3 INSTALL TYPE 1 PEDESTRIAN BARRICADE WITH R49(CA) SIGN.
- 4 No. 5(E) PULL BOXES AS NECESSARY TO MAINTAIN 200' MAXIMUM SPACING.
- 5 REFER TO SIGN PLANS FOR SIGN DETAILS.
- 6 SEE DETAIL A FOR BICYCLE DETECTION LOOP SAWCUT DETAIL.
7. ALL PULL BOXES SHALL BE No. 5(E) UNLESS OTHERWISE NOTED.

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIG MTG	PPB		HPS LUM	REFLECTIVE STREET NAME SIGN	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA	MAST ARM	POLE		Ø	ARROW			
Ⓐ	26-4-100	45'	12'	MAS MAS	SV-2-TA				200 W	← SR 198 East	F=20.5', INSTALL R9-3A SIGN ON SIGNAL POLE. INSTALL R73-3(CA) SIGN ON SMA. [5]
Ⓑ	26-3-100	40'	12'	MAS	SV-2-TA				200 W	19th Ave	INSTALL R9-3A SIGN ON SIGNAL POLE. INSTALL R61-26(CA) SIGN ON SMA. [5]
Ⓒ	19-3-100	30'	12'	MAS	SV-1-T	SP-1-T			200 W	SR 198 East →	INSTALL R9-3A SIGN ON SIGNAL POLE. INSTALL R3-4 SIGN ON SMA. [5]
Ⓓ	1-A				TV-1-T		2	→			
Ⓔ	15TS		12'				2	←	200 W		
Ⓕ	1-A				TV-2-T	SP-1-T					INSTALL R9-3A SIGN ON SIGNAL POLE. [5]



DETAIL A
BICYCLE DETECTION LOOP SAWCUT
 NO SCALE

CONDUIT AND CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION	CONDUIT RUN NUMBER AND SIZE	1	2	3	4	5	6	7
		4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	2-4"
VEH-PED 12CSC	Ⓐ	1,6,8	1	1	1			1
	Ⓑ	6,8		1	1			1
	Ⓒ	2,2P			1			1
	Ⓓ	8					1	1
	Ⓔ	2					1	1
	Ⓕ	1,2,2P				1	1	1
PPB 3CSC	SUBTOTAL		1	2	3	1	1	2
AWG	CIRCUIT							
#8	LIGHTING	2	2	2		2	2	
#8	FLASHING BEACON				2	2	2	
	SUBTOTAL	2	2	2	2	4	4	
	PHASE							
DLC	Ø1		1	1				1
	Ø2				4	4	4	4
	Ø2 ADV				1	1	1	1
	Ø6		3	3				3
	Ø6 ADV		1	1				1
	Ø8						4	4
	Ø8 ADV						1	1
	SUBTOTAL	5	5	5	5	10	15	
SIC								1

SIGNAL AND LIGHTING
(LOCATION 1)
 NO SCALE
E-12

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR
 RYAN WOO
 WILLIAM SUN
 CHECKED BY
 WILLIAM NASCIMENTO
 DESIGNED BY
 RYAN WOO
 REVISIONS: 11-28-11, 07-20-11
 REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	230	352

07-20-11
 REGISTERED CIVIL ENGINEER DATE
 11-28-11
 PLANS APPROVAL DATE

WILLIAM SUN
 No. C57664
 Exp. 12/31/11
 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.

LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765

NOTES: (FOR SHEETS E-14 AND E-15 ONLY)

- 1 120/240 V TYPE III-CF SERVICE EQUIPMENT ENCLOSURE. SEE SHEET E-4 FOR INSTALLATION.
- 2 STATE-FURNISHED MODEL 2070 CONTROLLER ASSEMBLY AND BATTERY BACKUP SYSTEM.
- 3 INSTALL TYPE 1 PEDESTRAIN BARRICADE WITH R49(CA) SIGN.
- 4 No. 5(E) PULL BOXES AS NECESSARY TO MAINTAIN 200' MAXIMUM SPACING.
- 5 REFER TO SIGN PLANS FOR SIGN DETAILS.
- 6 SEE DETAIL A ON E-12 FOR BICYCLE DETECTION LOOP SAWCUT DETAIL.
- 7 SEE SHEETS SES-1 AND SES-2 FOR INSTALLATION DETAILS FOR SIGNALS A AND B.
8. ALL PULL BOXES SHALL BE No. 5(E) UNLESS OTHERWISE NOTED.

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIG MTG	PPB		HPS LUM	REFLECTIVE STREET NAME SIGN	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA	MAST ARM	POLE		Ø	ARROW			
A	26-4-100	45'	15'	MAS MAS	SV-2-TA				200 W	← SR 198 West	F=25.5', INSTALL R9-3A SIGN ON SIGNAL POLE. INSTALL R73-6(CA) SIGN ON SMA. [5] [7]
B	26-3-100	40'	12'	MAS	SV-2-TA				200 W	19th Ave	INSTALL R9-3A SIGN ON SIGNAL POLE. INSTALL R61-26(CA) SIGN AND RSNS ON SMA. [5] [7]
C	19-3-100	30'	12'	MAS	SV-1-T	SP-1-T			200 W	SR 198 West →	INSTALL R9-3A SIGN ON SIGNAL POLE. INSTALL R3-4 SIGN ON SMA. [5]
D	1-A				TV-1-T		2	→			
E	15TS		12'		SV-1-T		2	←	200 W		
F	1-A				TV-1-T	SP-1-T					INSTALL R9-3A SIGN AND SNS SIGN ON SIGNAL POLE. [5]

CONDUIT AND CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION	CABLE TYPE	POLE	PHASE	CONDUIT RUN NUMBER AND SIZE							
				1	2	3	4	5	6	7	
VEH-PED 12CSC		A	1,6,8	1	1	1					1
		B	6,8		1	1					1
		C	2,2P			1					1
		D	8								1
		E	1	2				1	1	1	1
		F	2,2P				1	1	1	1	1
PPB 3CSC			SUBTOTAL	1	2	3	1	2	1	3	6
AWG	CIRCUIT										
#8	LIGHTING			2	2	2		2	2		
SUBTOTAL				2	2	2		2	2		
PHASE											
DLC	Ø1				2	2					2
	Ø2						4	4	4	4	
	Ø2 ADV						1	1	1	1	
	Ø6				3	3					3
	Ø6 ADV				1	1					1
	Ø8								4	4	
	Ø8 ADV								1	1	
SUBTOTAL				6	6	5	5	10	16		
SIC							1	1	1	2	

SIGNAL AND LIGHTING (LOCATION 2)

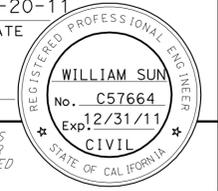
NO SCALE

E-14

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

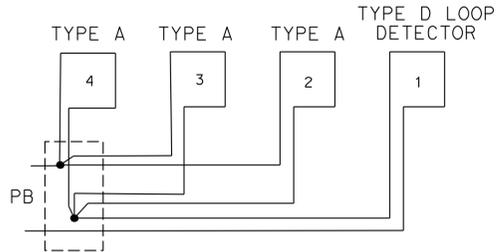
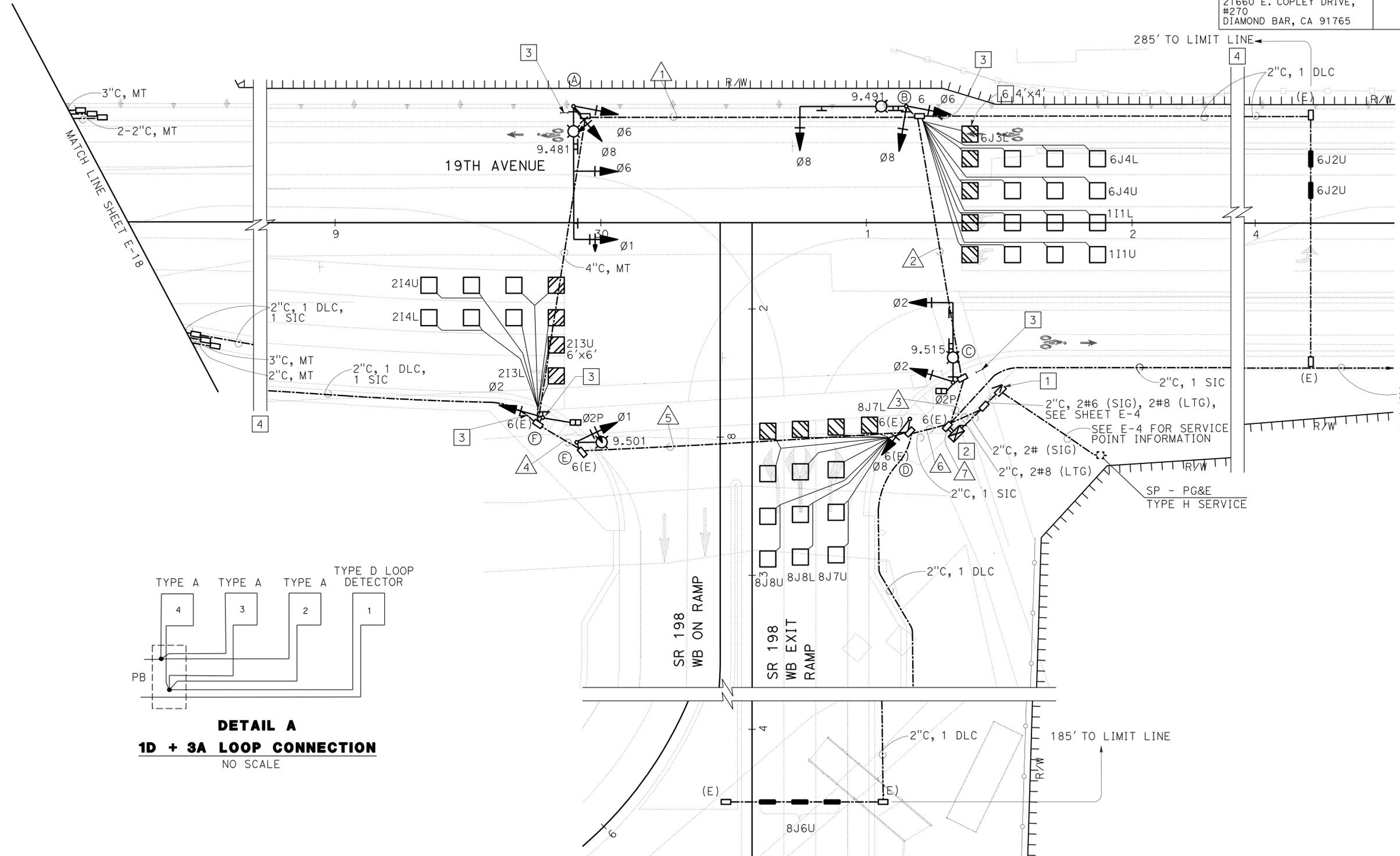
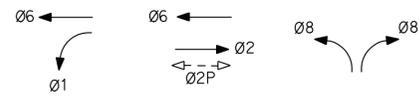
LAST REVISION: 07-06-11
 DATE PLOTTED => 22-DEC-2011
 TIME PLOTTED => 06:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	231	352
			07-20-11		
REGISTERED CIVIL ENGINEER			DATE		
11-28-11			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.					
LIN CONSULTING, INC. 21660 E. COPLEY DRIVE, #270 DIAMOND BAR, CA 91765					



NOTES:

1. FOR NOTES AND SCHEDULES, SEE SHEET E-14.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. SEE DETAIL A ON THIS SHEET FOR LOOP CONNECTION.



DETAIL A
1D + 3A LOOP CONNECTION
 NO SCALE

SIGNAL AND LIGHTING (LOCATION 2)

SCALE: 1" = 20'

E-15

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s121614
 DGN FILE => 632550u0015.dgn

CU 06253

EA 325501

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
Caltrans	RYAN WOO	
	WILLIAM SUN	
CONSULTANT - FUNCTIONAL SUPERVISOR	CHECKED BY	
WILLIAM NASCIMENTO		
	CALCULATED-DESIGNED BY	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	232	352

W. C. Se 07-20-11
 REGISTERED CIVIL ENGINEER DATE

11-28-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 WILLIAM SUN
 No. C57664
 Exp. 12/31/11
 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.

LIN CONSULTING, INC.
 21660 E. COPLEY DRIVE,
 #270
 DIAMOND BAR, CA 91765

NOTES: (FOR SHEETS E-16 & E-17 ONLY)

1 120/240 V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
60	120	1	TRAFFIC SIGNAL	YES	-
30	240	2	LIGHTING	NO	V
15	120	1	FLASHING BEACON	YES	-
20	120	1	SPARE	YES	-
-	-	6	SPACES	-	-

- 2 STATE FURNISHED MODEL 2070 CONTROLLER ASSEMBLY AND BATTERY BACKUP SYSTEM.
- 3 No. 5(E) PULL BOXES AS NECESSARY TO MAINTAIN 200' MAXIMUM SPACING.
- 4 REFER TO SIGN PLANS FOR SIGN DETAILS.
- 5 3"C, MT PER PG&E REQUIREMENT, CONDUCTORS TO BE INSTALLED BY PG&E.
- 6 SEE DETAIL A ON E-12 FOR BICYCLE DETECTION LOOP SAWCUT DETAIL.
- 7. ALL PULL BOXES SHALL BE No. 5(E) UNLESS OTHERWISE NOTED.

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIG MTG	PPB		HPS LUM	REFLECTIVE STREET NAME SIGN	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA	MAST ARM	POLE		Ø	ARROW			
A	26-4-100	45'	12'	MAS MAS	SV-1-T	SP-1-T	4	←	200 W	→ Silverado Ave ← Tammy Ln	F=17.5'. INSTALL R73-2(CA) SIGN ON SMA [4]
B	1-A				TV-2-T	SP-1-T	6	→			
C	24-4-100	35'	12'	MAS MAS	SV-1-T	SP-1-T	6	←	200 W	19th Ave	F=14'. INSTALL R73-3(CA) SIGN ON SMA [4]
D	1-A				TV-2-T	SP-1-T	8	→			
E	24-4-100	35'	12'	MAS MAS	SV-1-T	SP-1-T	8	←	200 W	→ Tammy Ln ← Silverado Ave	F=19'. INSTALL R73-2(CA) SIGN ON SMA [4]
F	1-A				TV-2-T	SP-1-T	2	→			
G	19-4-100	25'	12'	MAS MAS	SV-1-T SV-1-T	SP-1-T	2	←	200 W	19th Ave	F=13.5'. INSTALL R73-3(CA) SIGN ON SMA [4]
H	1-A				TV-2-T	SP-1-T	4	→			

CONDUIT AND CONDUCTOR SCHEDULE

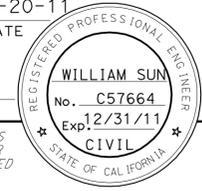
CABLE TYPE	POLE	PHASE	CONDUIT RUN NUMBER AND SIZE											
			1	2	3	4	5	6	7	8				
VEH-PED 12CSC	A	1,6,6P	4					1	1	1	1	1	1	
	B	4,3,4P	6						1	1	1	1	1	
	C	3,8,8P	6							1	1	1	1	
	D	5,6,6P	8								1	1	1	
	E	2,5,2P	8				1	1				1	1	
	F	7,8,8P	2			1	1					1	1	
	G	4,7,8,4P	2		2	2	2	1					2	1
	H	1,2,2P	4	1	1	1	1	1					1	1
PPB 3CSC			SUBTOTAL			1	3	4	5	1	2	3	9	
AWG	CIRCUIT													
#8	LIGHTING			2	2	2	2	2	2	2				
SUBTOTAL				2	2	2	2	2	2					
PHASE														
DLC	Ø1												1	
	Ø2		3	3	3	3							3	
	Ø2 ADV		1	1	1	1							1	
	Ø3										1	1	1	
	Ø4										1	1	1	
	Ø4 ADV										1	1	1	
	Ø5		1	1	1	1							1	
	Ø6												3	
	Ø6 ADV												1	
	Ø7				1	1							1	
Ø8				1	1							1		
Ø8 ADV				1	1							1		
SUBTOTAL			5	5	8	8			3	3	16			
SIC			1	1	1	1						1		
EVC				1	1	2	1	1	2	4				

**SIGNAL AND LIGHTING (CITY)
EMERGENCY VEHICLE DETECTOR SYSTEM**

NO SCALE

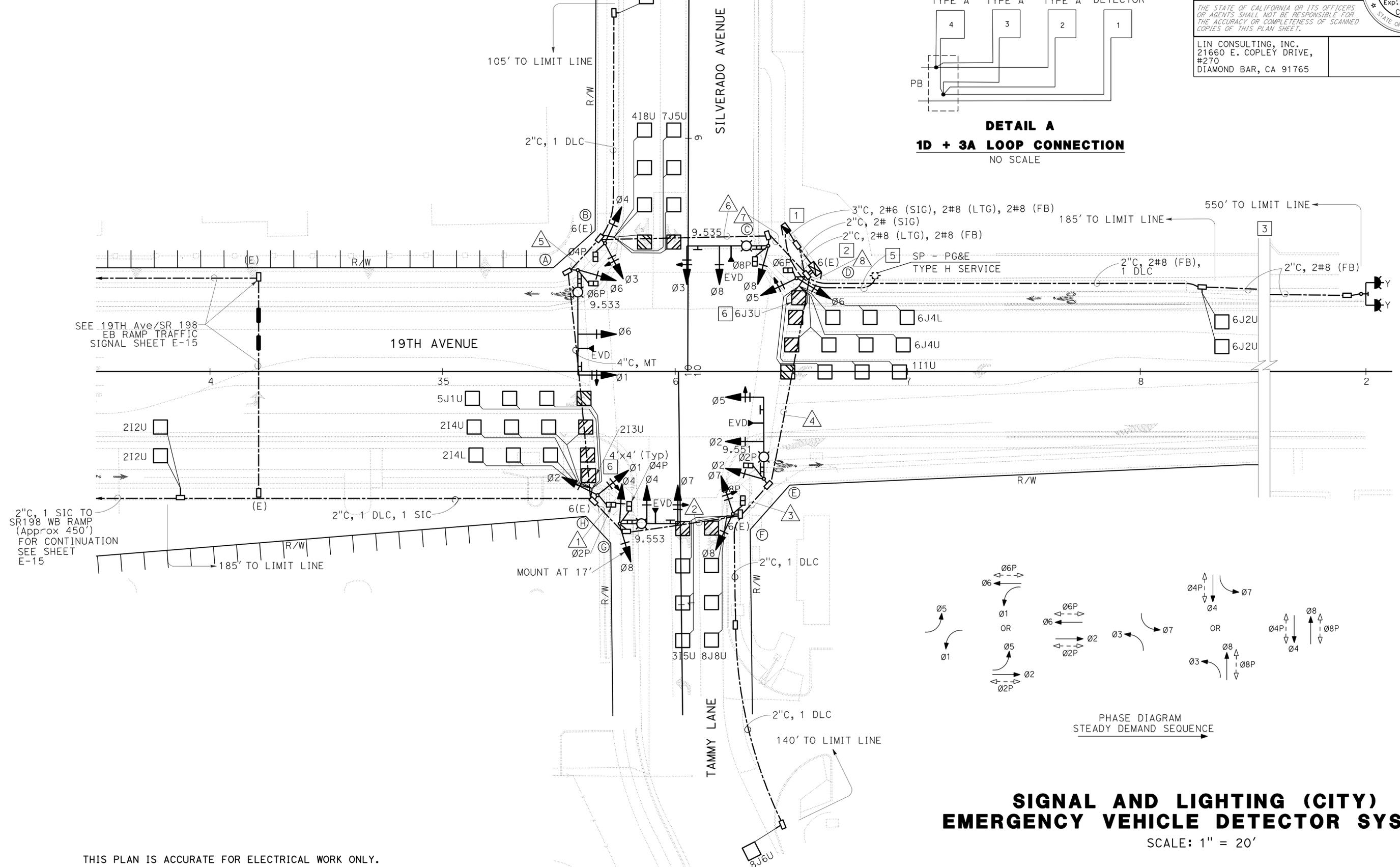
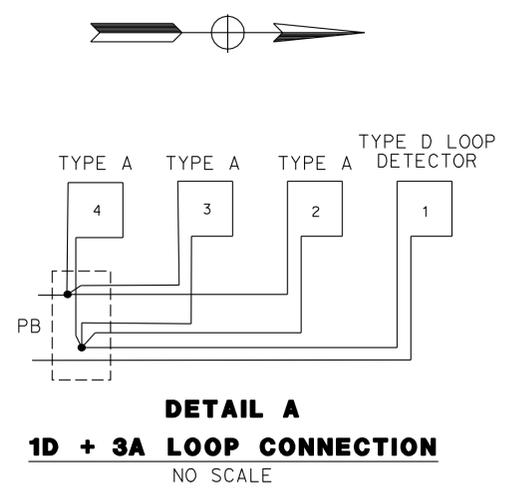
E-16

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	233	352
			07-20-11		
REGISTERED CIVIL ENGINEER			DATE		
11-28-11			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>					
LIN CONSULTING, INC. 21660 E. COPLEY DRIVE, #270 DIAMOND BAR, CA 91765					

NOTES:

1. FOR ADDITIONAL NOTES AND SCHEDULES, SEE SHEET E-16.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. SEE DETAIL A ON THIS SHEET FOR LOOP CONNECTION.



**SIGNAL AND LIGHTING (CITY)
EMERGENCY VEHICLE DETECTOR SYSTEM**

SCALE: 1" = 20'

E-17

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
	RYAN WOO	11-28-11
CONSULTANT - FUNCTIONAL SUPERVISOR	DESIGNED BY	CHECKED BY
WILLIAM NASCIMENTO	WILLIAM SUN	

RELATIVE BORDER SCALE IS IN INCHES



USERNAME => s121614
 DGN FILE => 632550u0017.dgn
 CU 06253
 EA 325501

LAST REVISION: 07-06-11
 DATE PLOTTED => 22-DEC-2011
 TIME PLOTTED => 06:57

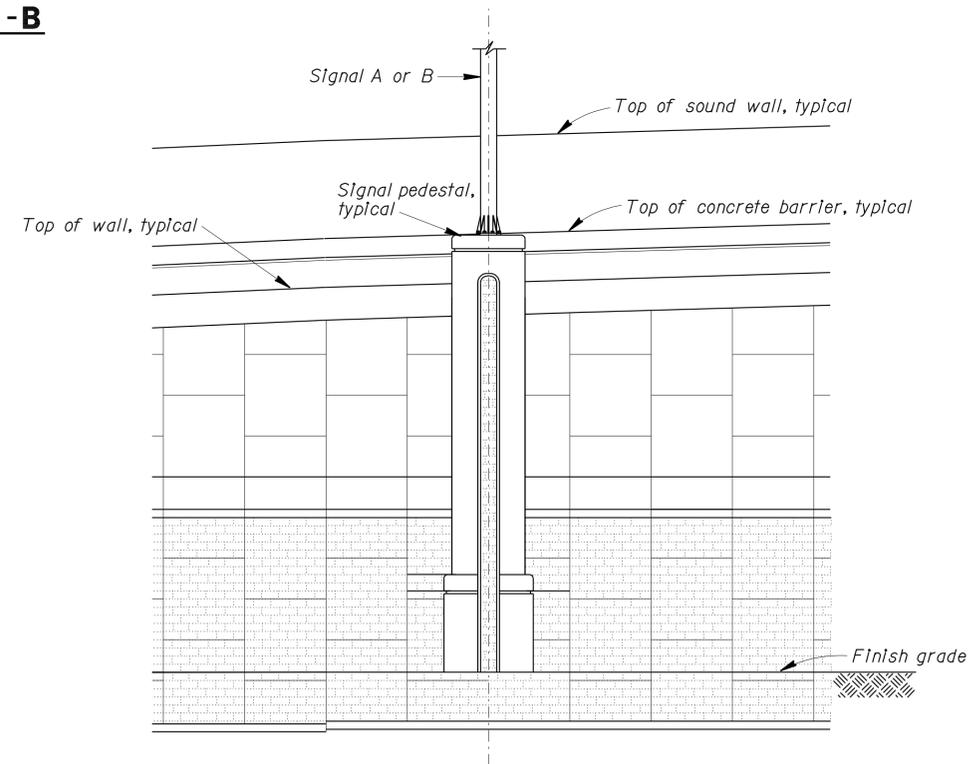
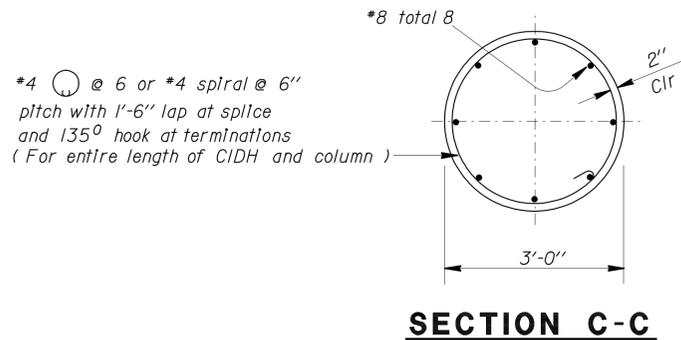
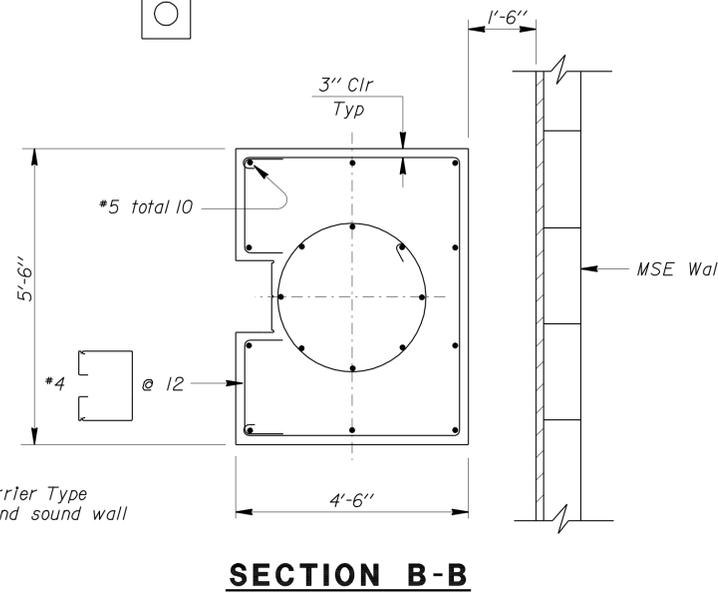
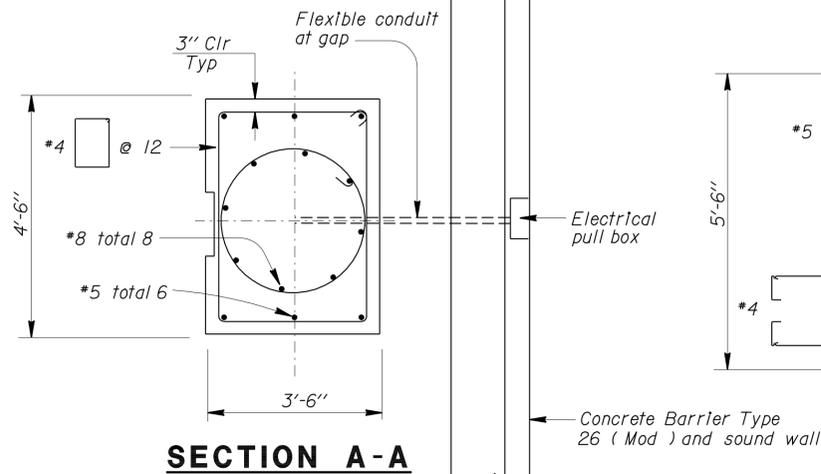
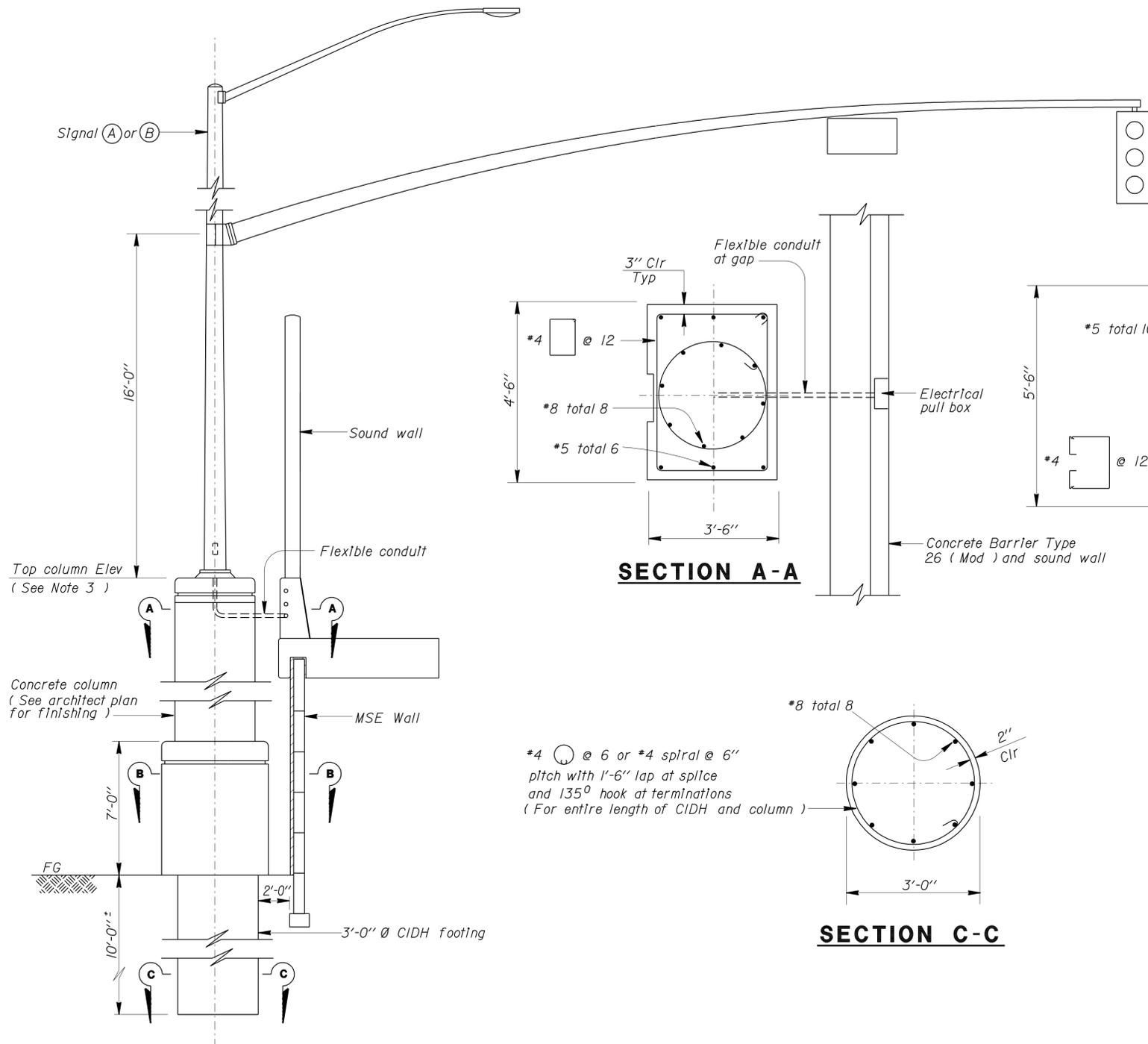
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	235	352

REGISTERED CIVIL ENGINEER DATE 6/22/11

11-28-11
PLANS APPROVAL DATE

ANDREW BUI
No. C63560
Exp. 9/30/12
CIVIL
STATE OF CALIFORNIA

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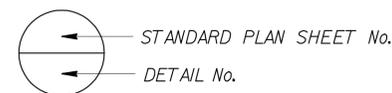
NOTES:

1. Reinforcing shall be centered from sign axis.
2. For location of signal, see "ROAD PLANS".
3. Top column elevation will be equal to top elevation of concrete barrier at such location.
4. For "SIGNAL TYPE 26" and all other details not shown, see 2006 "STANDARD PLANS" and "REVISED STANDARD PLANS".
5. Minimum $f'c = 3000$ psi @ 28 days.
6. Minimum concrete strength shall be achieved prior to installing signals.
7. Main column reinforcements are continued from CIDH.

SIGNAL A AND B LAYOUT

Signal (A) 19th Sta = 29 + 89.72
Signal (B) 19th Sta = 31 + 14.95

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



COLUMN ELEVATION VIEW

Note: For details not shown, see "ARCHITECTURAL" sheets.

BRANCH CHIEF JEFF WOODY	DESIGN BY ANDREW BUI CHECKED JEFF WOODY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH	BRIDGE No.	SIGNALS A AND B MISCELLANEOUS DETAILS No. 1	SES-1
	DETAILS BY R. YEE CHECKED ANDREW BUI			POST MILE		
	QUANTITIES BY ANDREW BUI CHECKED JEFF WOODY					

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3619
PROJECT NUMBER & PHASE: 060000367-1 CONTRACT No.: 06-325501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
6/22/11 6/30/11 6/27/11 6/28/11	1	2

FILE => /2011sd/06-325501/ses-1.dgn

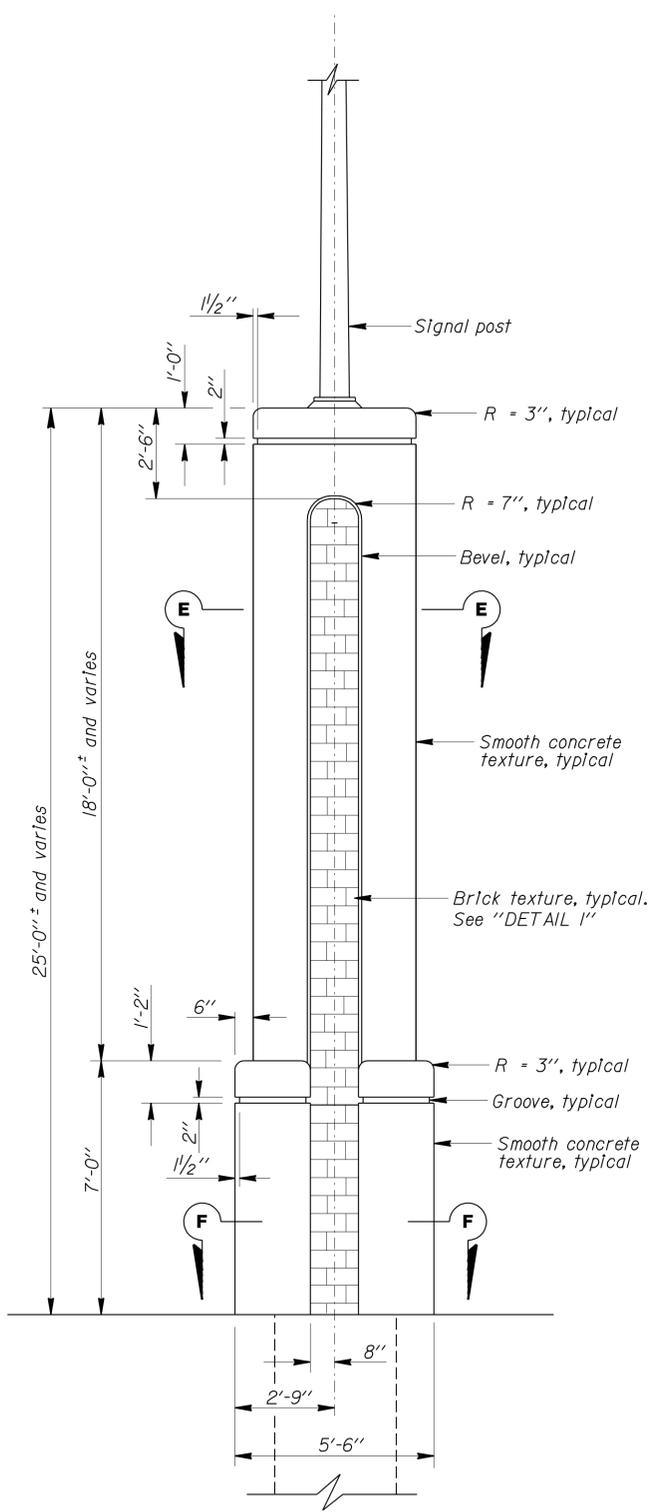
USERNAME => s121614 DATE PLOTTED => 22-DEC-2011 TIME PLOTTED => 07:31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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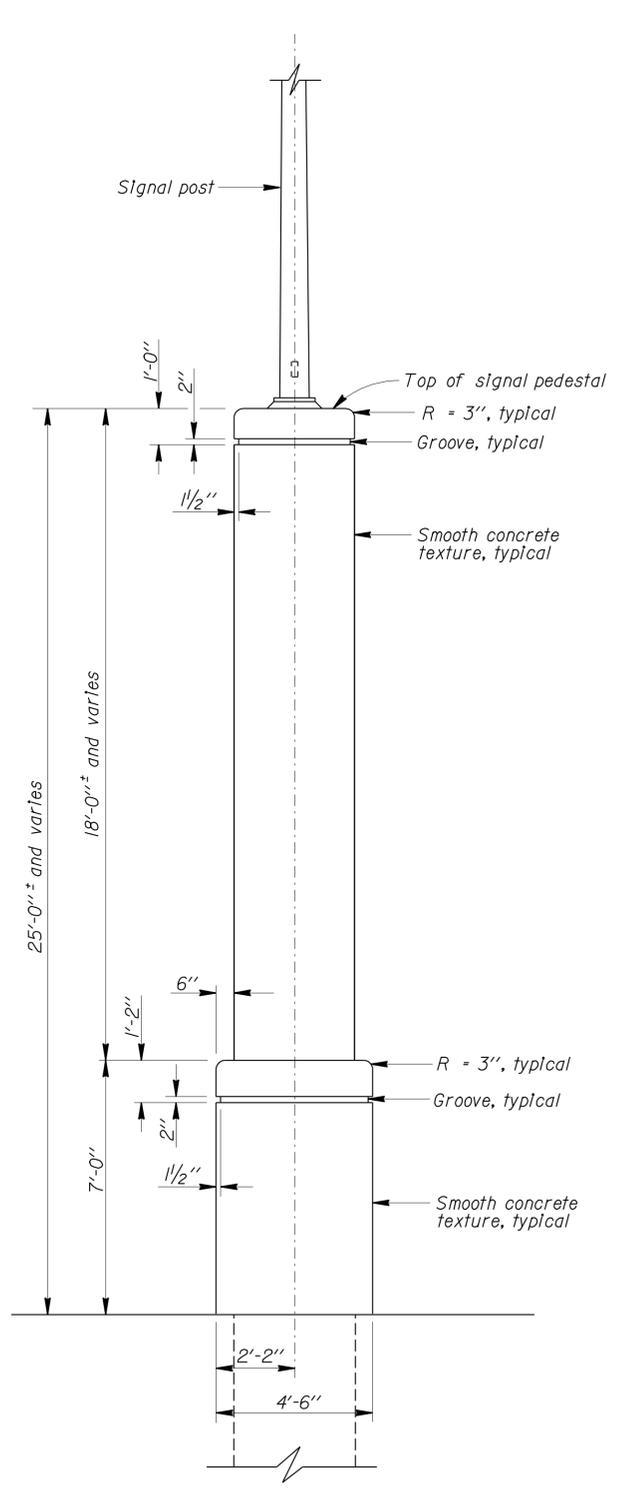
REGISTERED CIVIL ENGINEER DATE 6/22/11
 ANDREW BUI
 No. C63560
 Exp. 9/30/12
 CIVIL
 STATE OF CALIFORNIA

11-28-11
 PLANS APPROVAL DATE

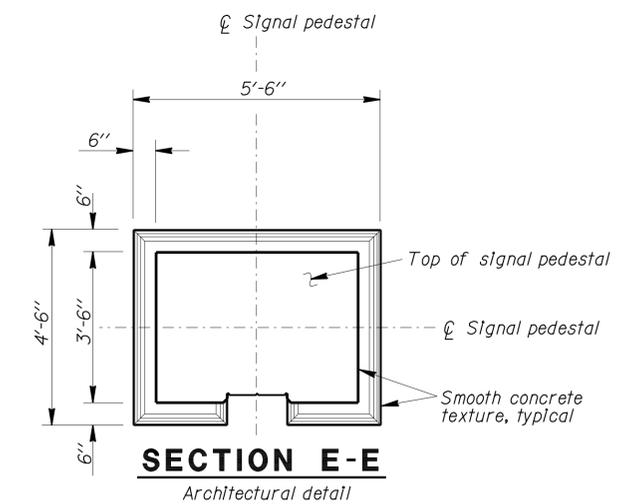
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



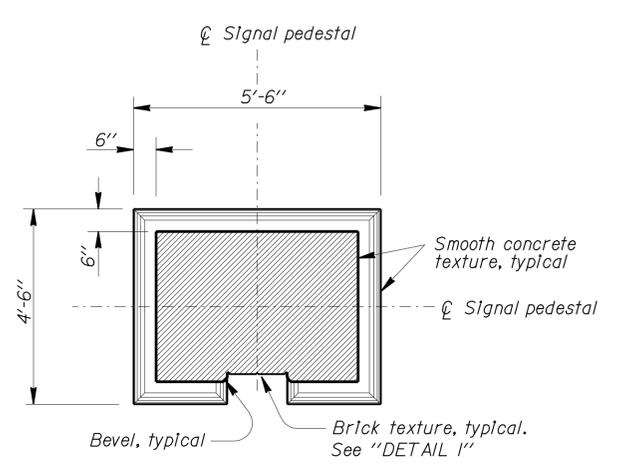
FRONT ELEVATION VIEW



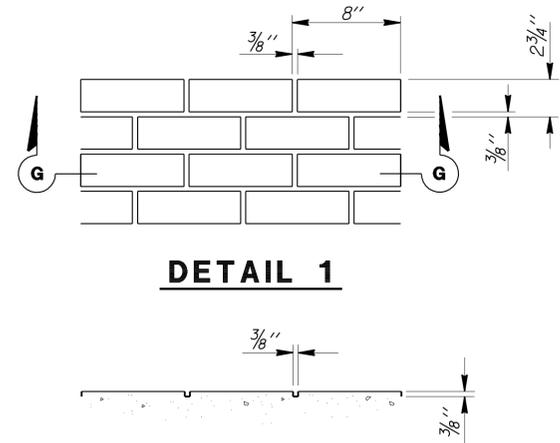
SIDE ELEVATION VIEW



SECTION E-E
Architectural detail



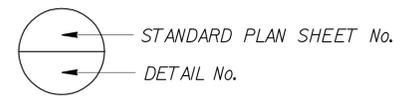
SECTION F-F
Architectural detail at back of column



DETAIL 1

SECTION G-G

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



BRANCH CHIEF JEFF WOODY	DESIGN BY ANDREW BUI	CHECKED JEFF WOODY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH A	BRIDGE NO.	SIGNALS A AND B	SES-2
	DETAILS BY R. YEE	CHECKED ANDREW BUI			POST MILE		
(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3619 PROJECT NUMBER & PHASE: 0600000367-1	CONTRACT NO.: 06-325501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES
				0	1	2	3
				6/30/11	6/22/11	6/22/11	6/22/11
				2	2		

USERNAME => s121614 DATE PLOTTED => 22-DEC-2011 TIME PLOTTED => 07:31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	237	352

Dallas Forester
REGISTERED CIVIL ENGINEER

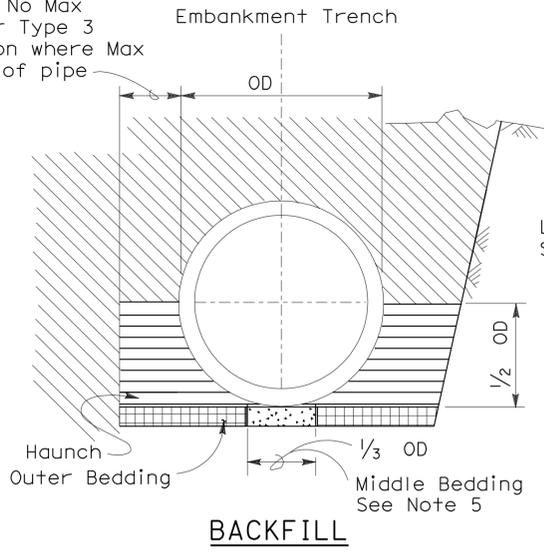
November 17, 2006
PLANS APPROVAL DATE

Dallas Forester
REGISTERED PROFESSIONAL ENGINEER
No. C37765
Exp. 12-31-06
CIVIL
STATE OF CALIFORNIA

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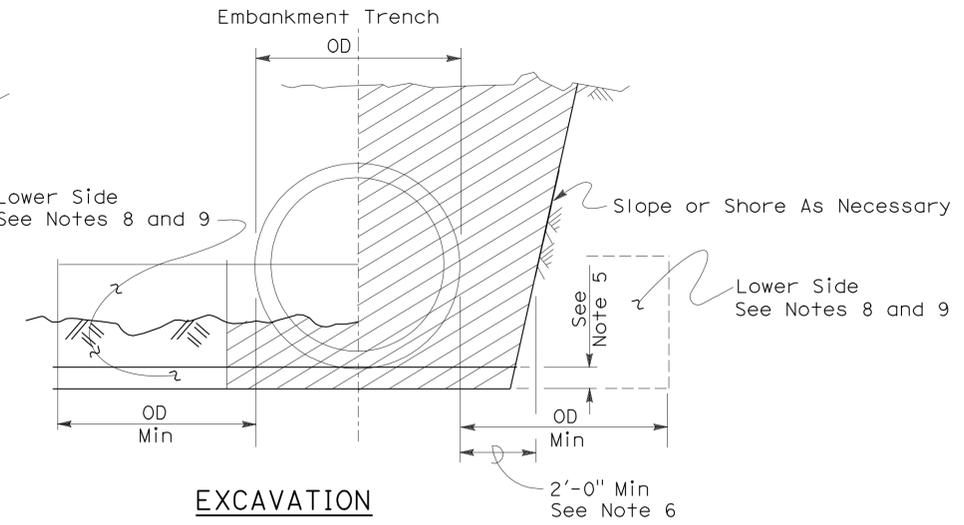
To accompany plans dated 11-28-11

2'-0" Min; No Max except for Type 3 Installation where Max Equals OD of pipe



BACKFILL

- Roadway Embankment
- Structure Backfill (Culvert) See Note 6
- Structure Backfill (Culvert) See Note 6
- Loose Backfill



EXCAVATION

- Excavation Structure (Culvert)

TYPE 1 INSTALLATION:

The haunch and outer bedding shall be compacted to a minimum 90 percent relative compaction. In addition, the minimum sand equivalent in these areas shall be 30 and the maximum percentage passing the 75 μ m sieve size shall be 12.

TYPE 2 INSTALLATION:

The haunch and outer bedding shall be compacted to a minimum 90 percent relative compaction. In addition, the minimum sand equivalent in these areas shall be 25.

TYPE 3 INSTALLATION:

The haunch and outer bedding shall be compacted to a minimum 85 percent relative compaction. 90 percent relative compaction will be required where the fill over the pipe is less than 4'-0" or 1/2 OD.

NOTES:

- Unless otherwise shown on the plans or specified in the special provision, the Contractor shall have the option of selecting the class of RCP and the type of installation to be used, provided the height of cover does not exceed the value shown for the RCP selected.
Example: 24" RCP culvert with maximum cover of 19'-0" the options are:
a) Class III or stronger with Installation Type 1.
b) Class III Special or stronger with Installation Type 2.
c) Class IV Special or stronger with Installation Type 3.
Cover is defined as the maximum vertical distance from top of the pipe to finished grade within the length of any given culvert.
- The class of RCP and Installation Type selected shall be the same throughout the length of any given culvert.
- The "length of any culvert" is defined as the culvert between:
a) Successive drainage structure (inlets, junction boxes, headwalls, etc.).
b) A drainage structure and the inlet or outlet end of the culvert.
c) The inlet and outlet end of the culvert when there are no intervening drainage structures.
- Oval and arch shaped RCP shall not be used.
- 1/25 OD Min, not less than 3".
- Slurry cement backfill may be substituted for backfill in the outer bedding and haunch areas. If slurry is used the outer and middle beddings shall be omitted. Prior to installation the soil under the middle 1/3 of the outside diameter of the pipe shall be softened by scarifying or other means to a minimum depth of 1/25 OD, but not less than 3". Where slurry cement backfill is used clear distance to trench wall may be reduced as set forth in Section 19-3.062 of the Standard Specifications.
- Backfill shall be placed full width of excavation except where dimensions are shown for backfill width or thickness. Dimensions shown are minimums.
- Lower side shall be suitable material as determined by the Engineer. Otherwise it shall be considered unsuitable as set forth in Section 19-2.02 of the Standard Specifications. See Note 9.
- Where the pipe is placed in a trench, if the trench walls are sloped at 5 vertical to 1 horizontal or steeper for at least 90 percent of the trench height or up to not less than 12" from the grading plane, the firmness of the soil in the lower side need not be considered.
- Non-reinforced precast concrete pipe sizes 3'-0" or smaller may be placed under installation Types 1, 2 or 3.

INSTALLATION TYPE 1

MINIMUM CLASS AND D-LOAD	COVER	
	108" Dia AND SMALLER	OVER 108" Dia
Class II 1000D	14.9'	12.9'
Class III 1350D	15.0' - 20.9'	13.0' - 18.9'
Class III Special 1700D	21.0' - 26.9'	19.0' - 24.9'
Class IV 2000D	27.0' - 31.9'	25.0' - 29.9'
Class IV Special 2500D	32.0' - 40.9'	30.0' - 38.9'
Class V 3000D	41.0' - 49.9'	39.0' - 46.9'
Class V Special 3600D	50.0' - 59.0'	47.0' - 58.0'

INSTALLATION TYPE 2

MINIMUM CLASS AND D-LOAD	COVER
Class II 1000D	9.9'
Class III 1350D	10.0' - 14.9'
Class III Special 1700D	15.0' - 19.9'
Class IV 2000D	20.0' - 24.9'
Class IV Special 2500D	25.0' - 31.9'
Class V 3000D	32.0' - 38.9'
Class V Special 3600D	39.0' - 47.0'

INSTALLATION TYPE 3

MINIMUM CLASS AND D-LOAD	COVER	
	48" Dia AND SMALLER	OVER 48" Dia
Class II 1000D	7.9'	5.9'
Class III 1350D	8.0' - 10.9'	6.0' - 8.9'
Class III Special 1700D	11.0' - 14.9'	9.0' - 12.9'
Class IV 2000D	15.0' - 17.9'	13.0' - 15.9'
Class IV Special 2500D	18.0' - 21.9'	16.0' - 19.9'
Class V 3000D	22.0' - 26.9'	20.0' - 24.9'
Class V Special 3600D	30.0' - 33.0'	25.0' - 31.0'

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**EXCAVATION AND BACKFILL
CONCRETE PIPE CULVERTS**

NO SCALE

RSP A62DA DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN A62DA DATED MAY 1, 2006 - PAGE 20 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A62DA

2006 REVISED STANDARD PLAN RSP A62DA

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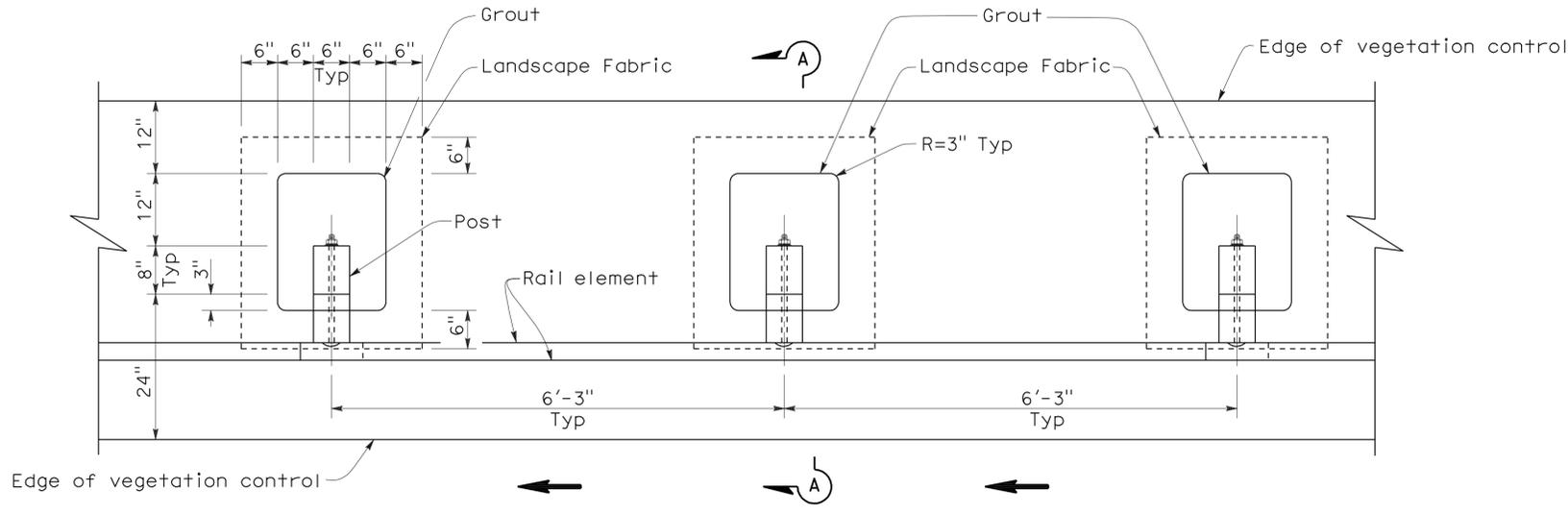
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

October 20, 2006
PLANS APPROVAL DATE

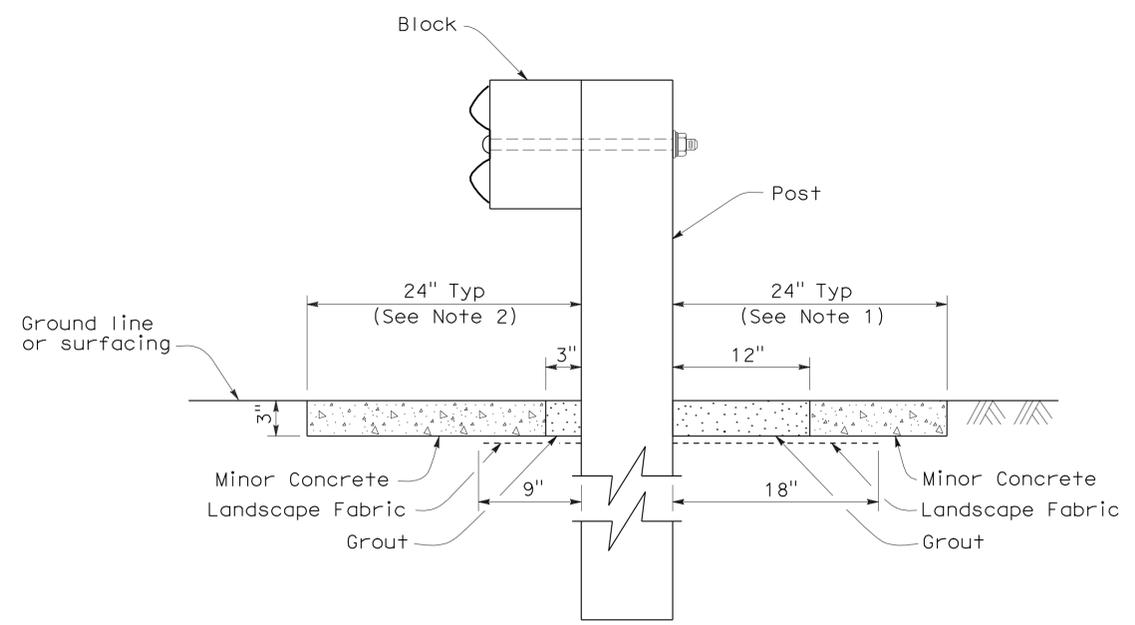
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 11-28-11



PLAN



SECTION A-A

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

NEW STANDARD PLAN NSP A77C5

2006 NEW STANDARD PLAN NSP A77C5

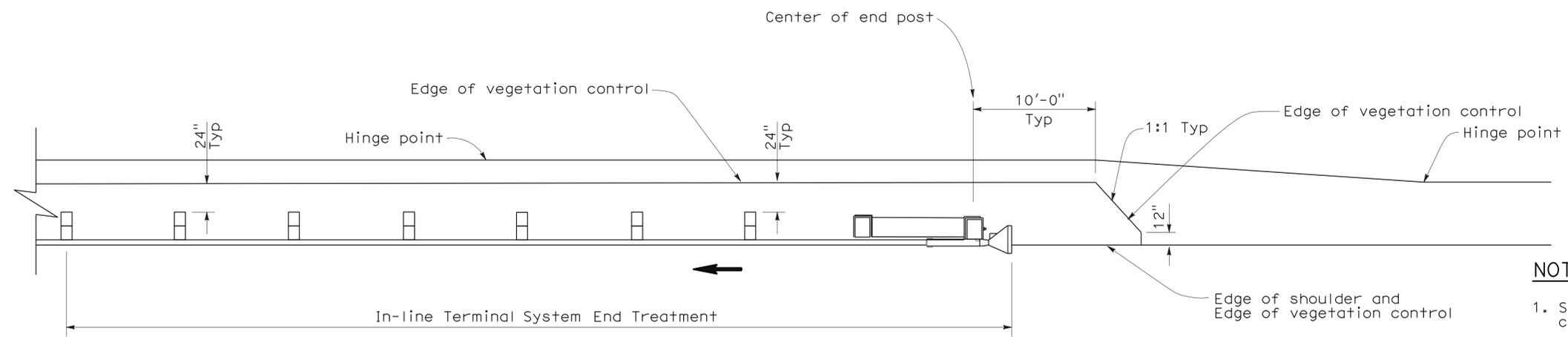
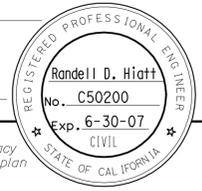
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	239	352

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

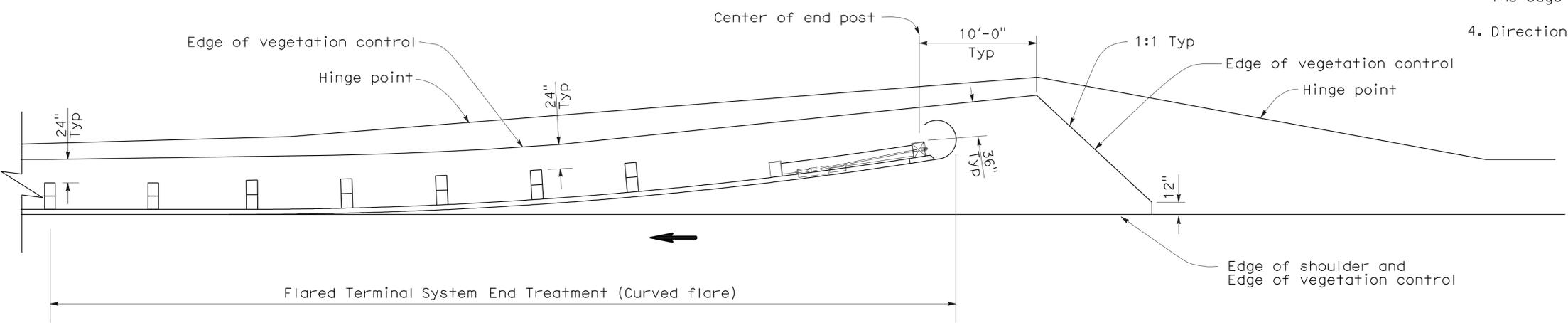
October 20, 2006
PLANS APPROVAL DATE

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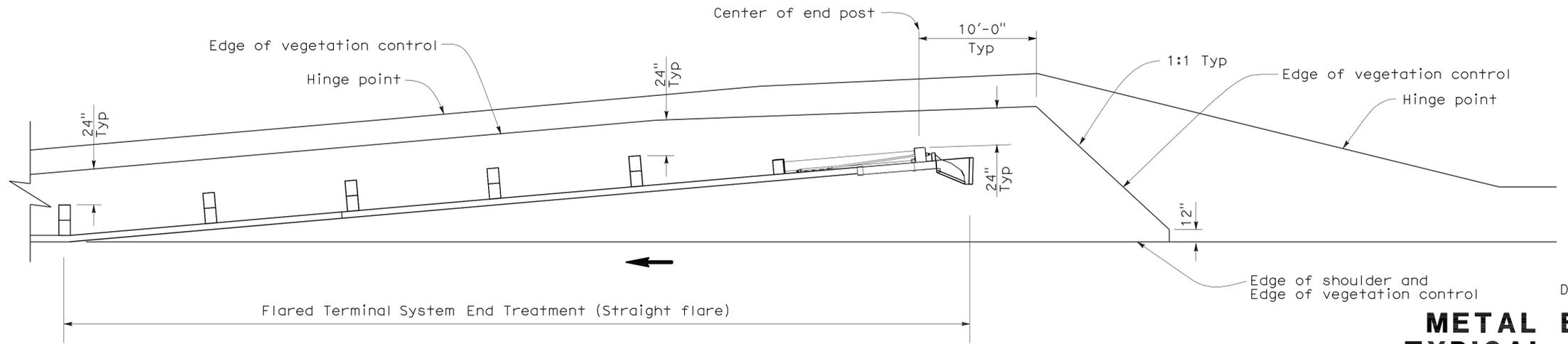
To accompany plans dated 11-28-11



PLAN



PLAN



PLAN

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

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

NEW STANDARD PLAN NSP A77C6

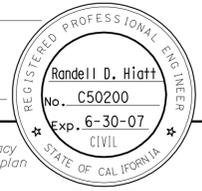
2006 NEW STANDARD PLAN NSP A77C6

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

October 20, 2006
PLANS APPROVAL DATE

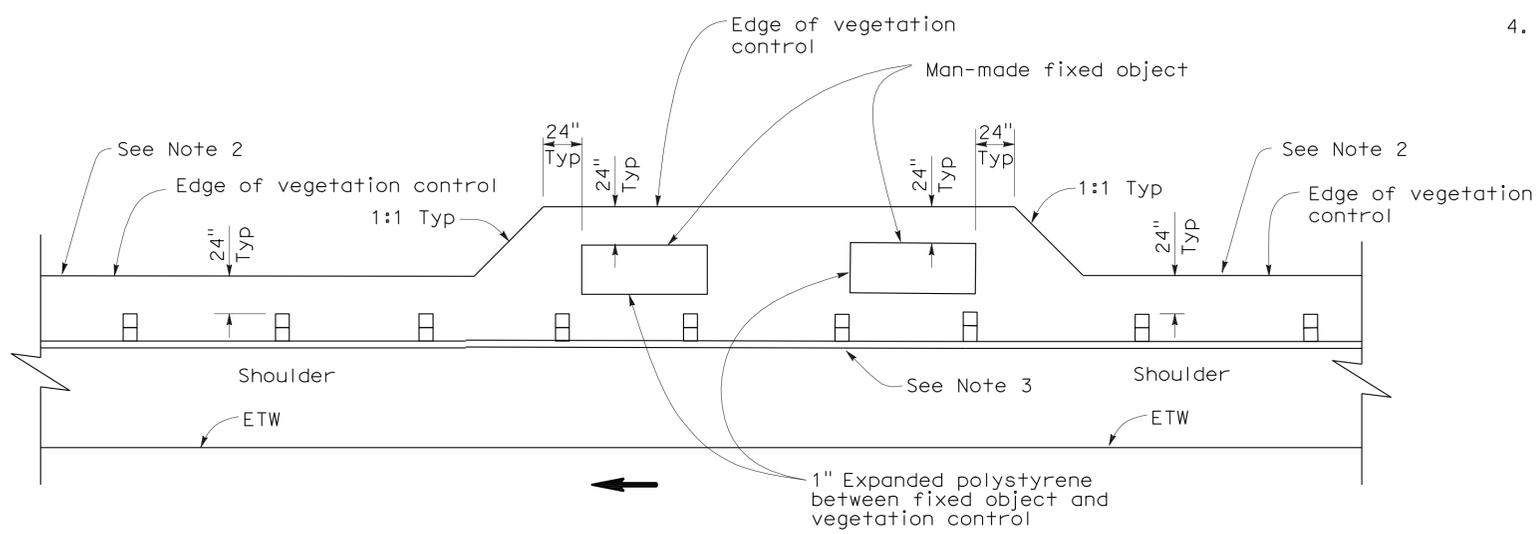
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To accompany plans dated 11-28-11

NOTES:

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



PLAN
FIXED OBJECT(S) ON SHOULDER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL VEGETATION CONTROL
AT FIXED OBJECT**

NO SCALE
NSP A77C8 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD
PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP A77C8

2006 NEW STANDARD PLAN NSP A77C8

NOTES:

1. See New Standard Plan NSP A77C5 for additional vegetation control details.
2. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
3. Direction of adjacent traffic indicated by ←.

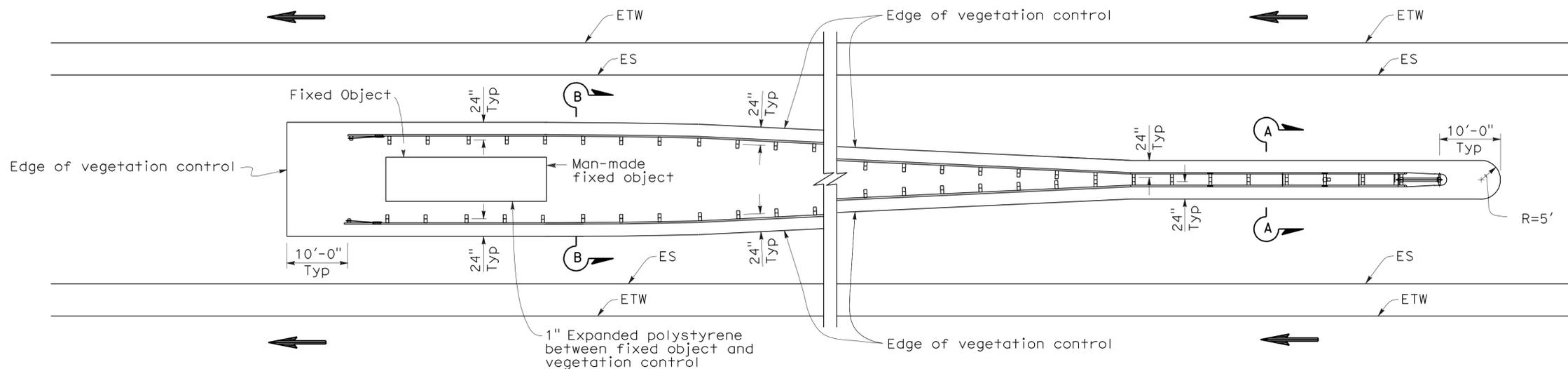
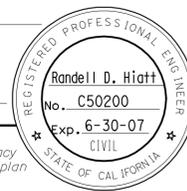
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	241	352

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

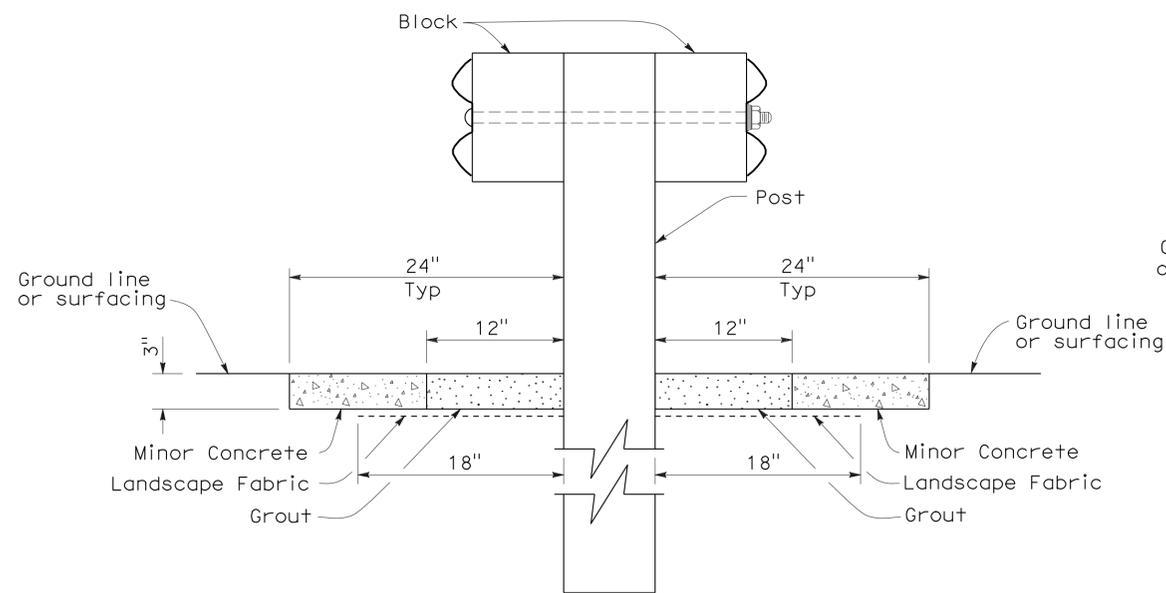
October 20, 2006
PLANS APPROVAL DATE

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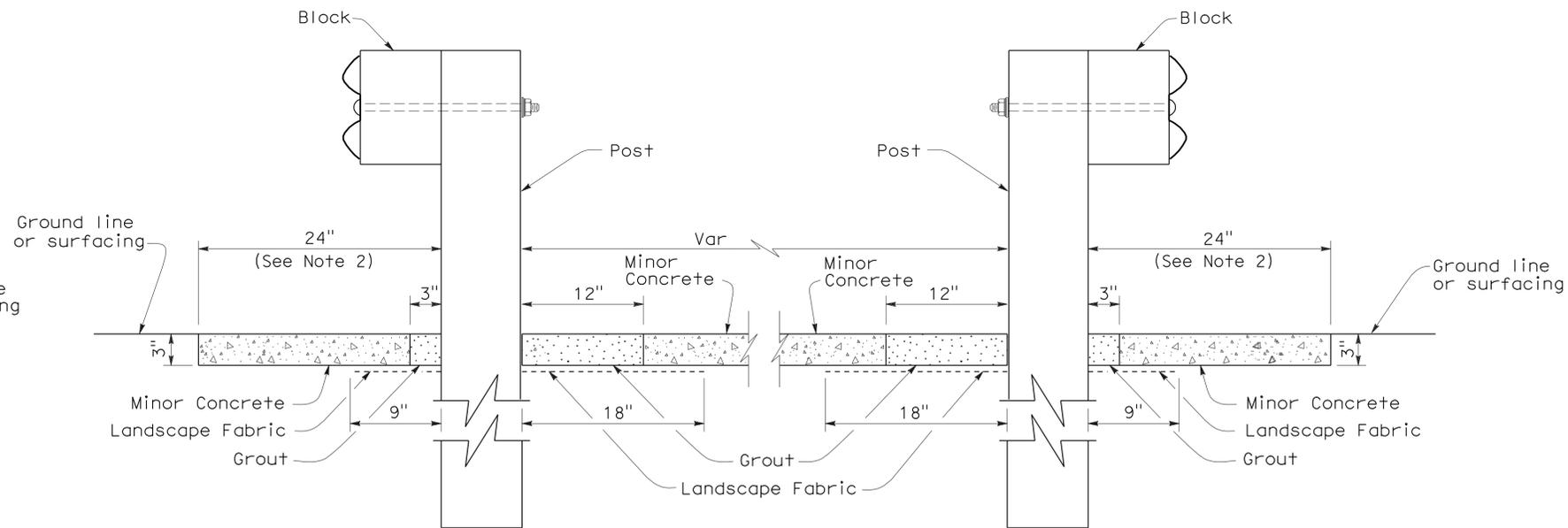
To accompany plans dated 11-28-11



PLAN
FIXED OBJECT(S) BETWEEN SEPARATE ROADBEDS
(ONE-WAY TRAFFIC)



SECTION A-A



SECTION B-B

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL VEGETATION CONTROL
AT FIXED OBJECT**

NO SCALE

NSP A77C10 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD
PLANS BOOK DATED MAY 2006.

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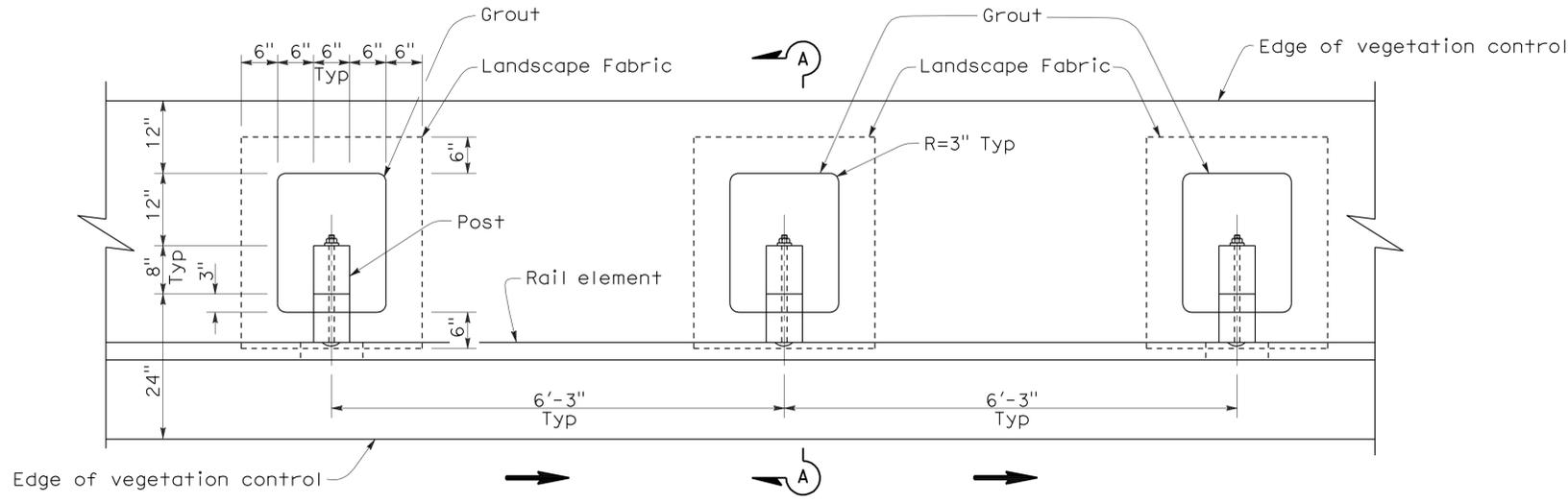
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

October 20, 2006
PLANS APPROVAL DATE

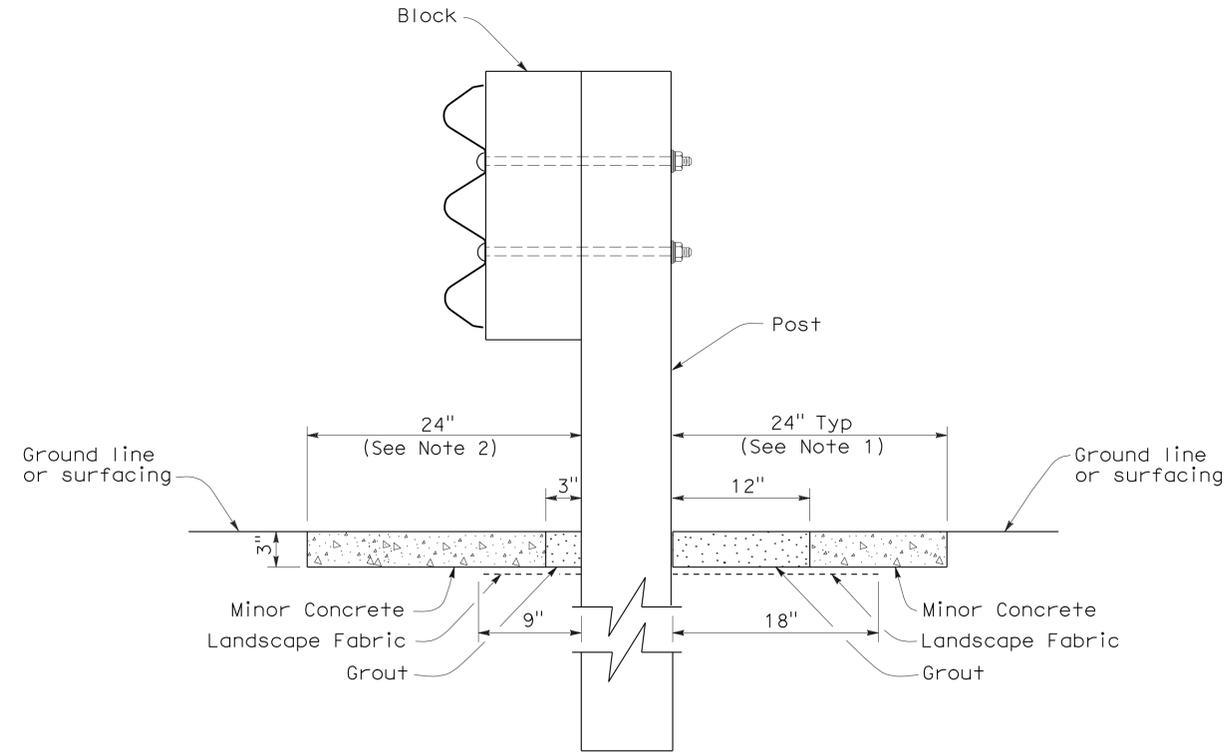
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 11-28-11



PLAN



SECTION A-A

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**SINGLE THRIE BEAM BARRIER
TYPICAL VEGETATION CONTROL
STANDARD BARRIER RAILING SECTION**

NO SCALE
NSP A78C3 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD
PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP A78C3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	244	352

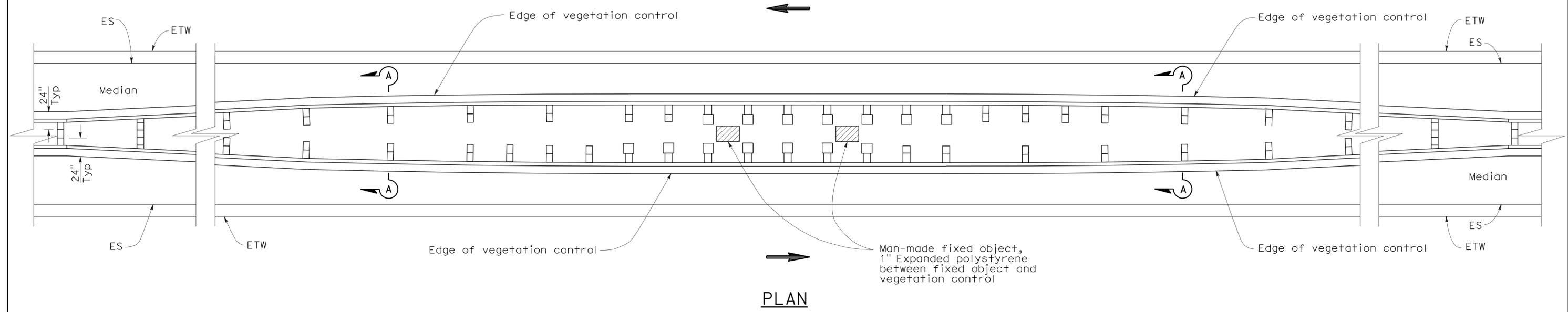
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

October 20, 2006
PLANS APPROVAL DATE

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

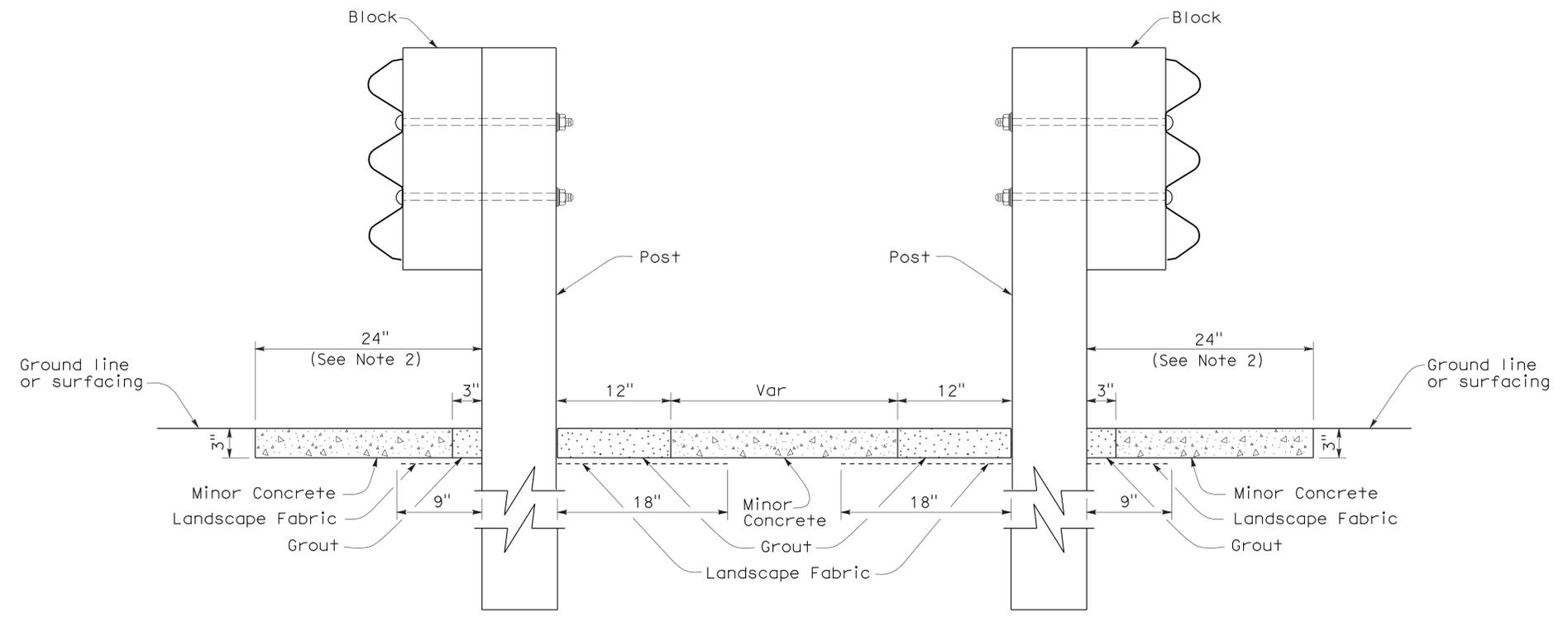
To accompany plans dated 11-28-11



PLAN

NOTES:

1. See New Standard Plan NSP A78C3 for additional vegetation control.
2. Where dike is constructed under barrier, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
3. Direction of adjacent traffic indicated by ←.



SECTION A-A

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**THREE BEAM BARRIER
TYPICAL VEGETATION CONTROL
AT FIXED OBJECTS
IN MEDIAN**

NO SCALE
NSP A78C5 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD
PLANS BOOK DATED MAY 2006.

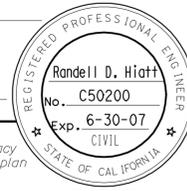
2006 NEW STANDARD PLAN NSP A78C5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	245	352

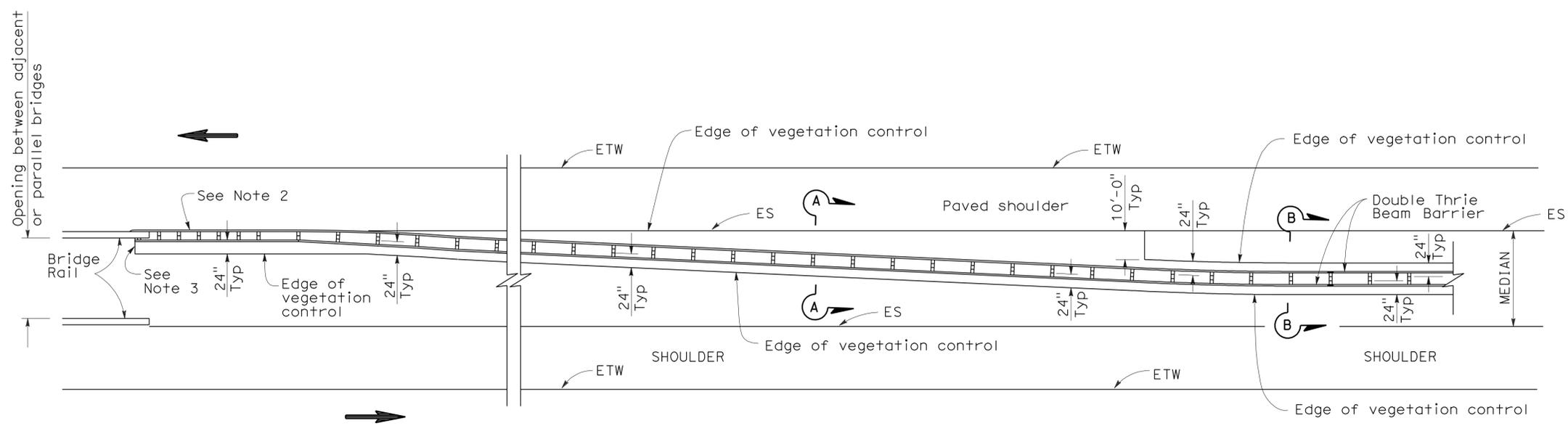
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

October 20, 2006
PLANS APPROVAL DATE

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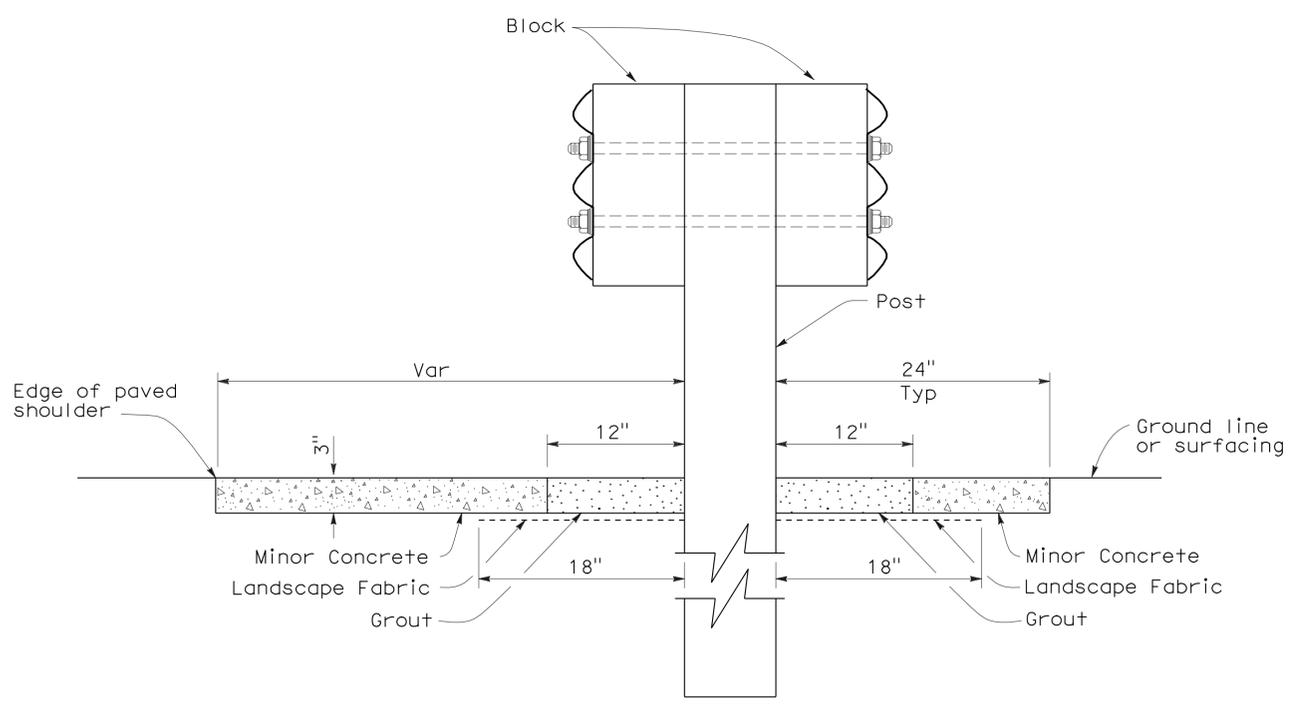
To accompany plans dated 11-28-11



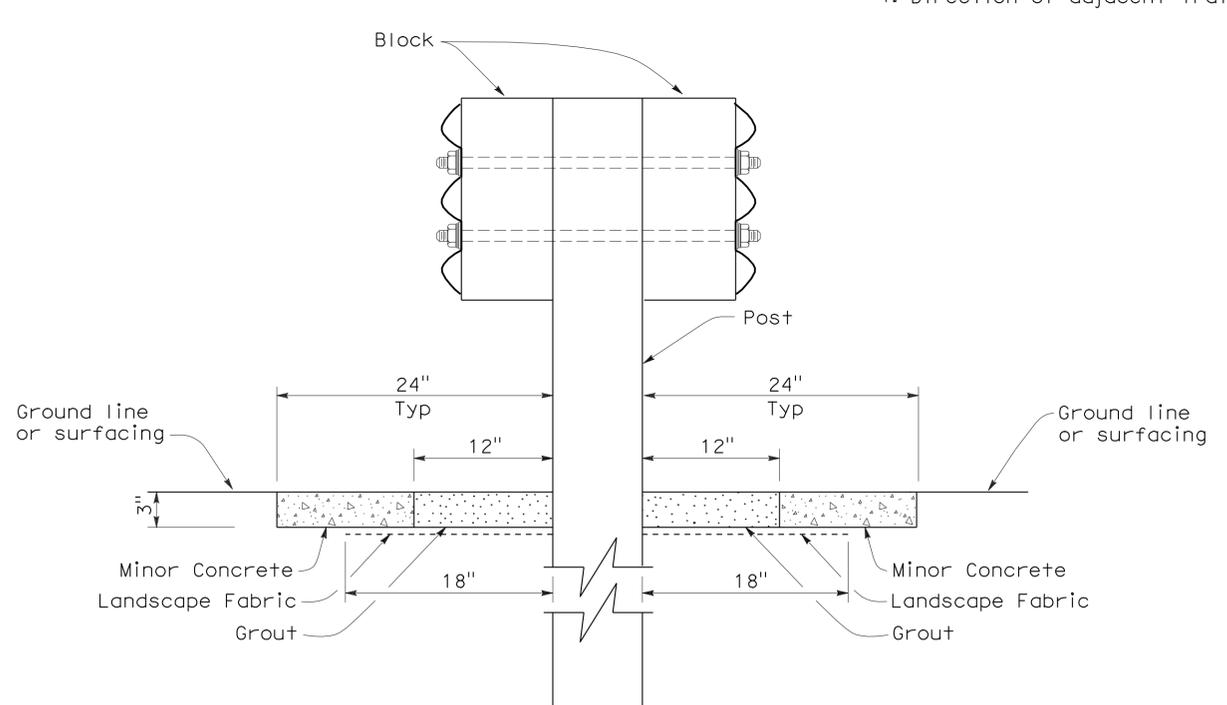
PLAN

NOTES:

1. See New Standard Plan NSP A78C4 for additional vegetation control details.
2. Where dike is constructed under barrier, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
3. End vegetation control at end of backside rail element attached to bridge railing.
4. Direction of adjacent traffic indicated by ←.



SECTION A-A



SECTION B-B

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**THRIE BEAM BARRIER
TYPICAL VEGETATION CONTROL
AT STRUCTURE APPROACH**
NO SCALE

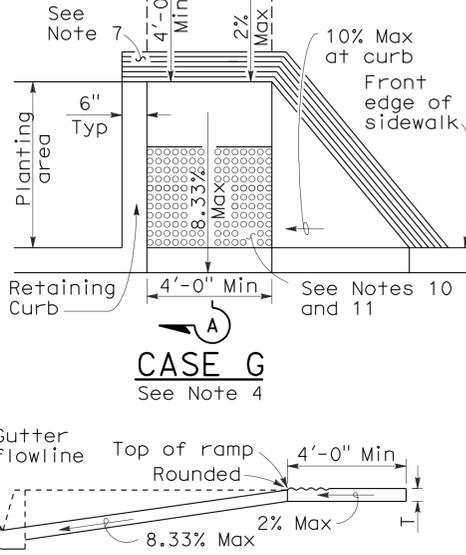
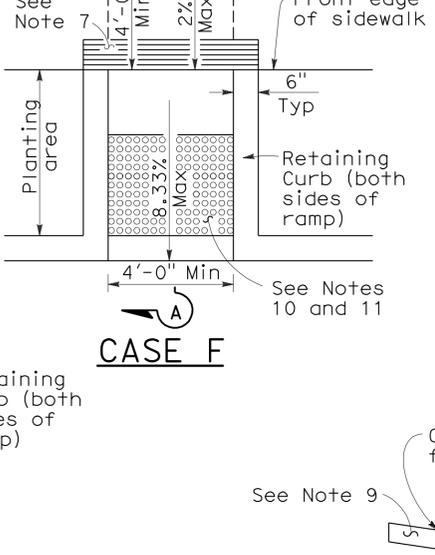
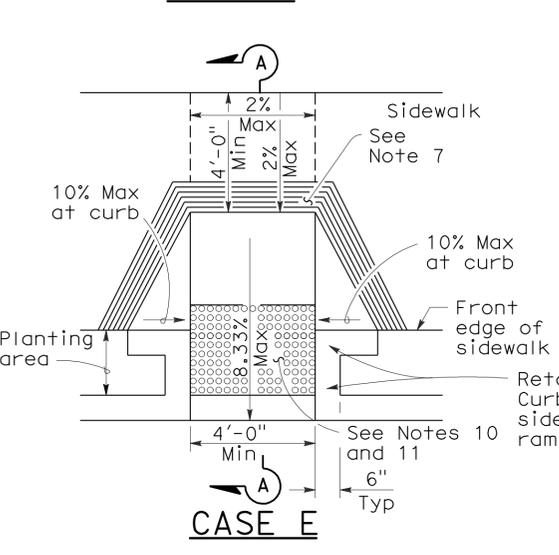
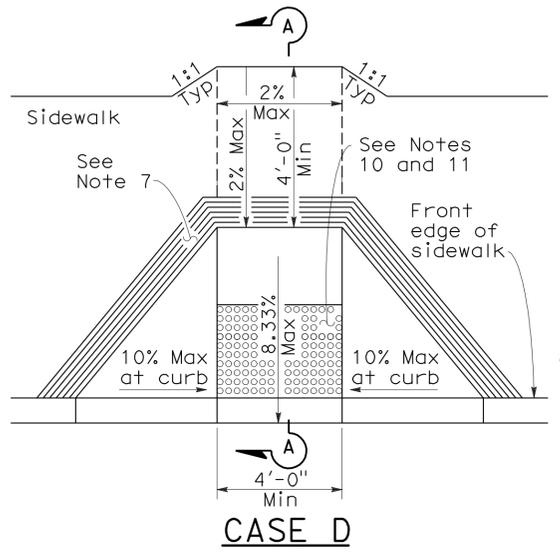
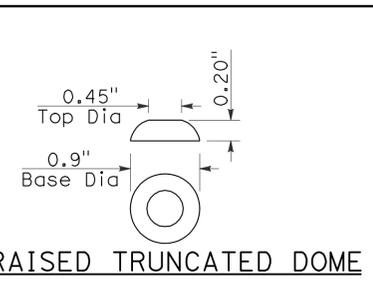
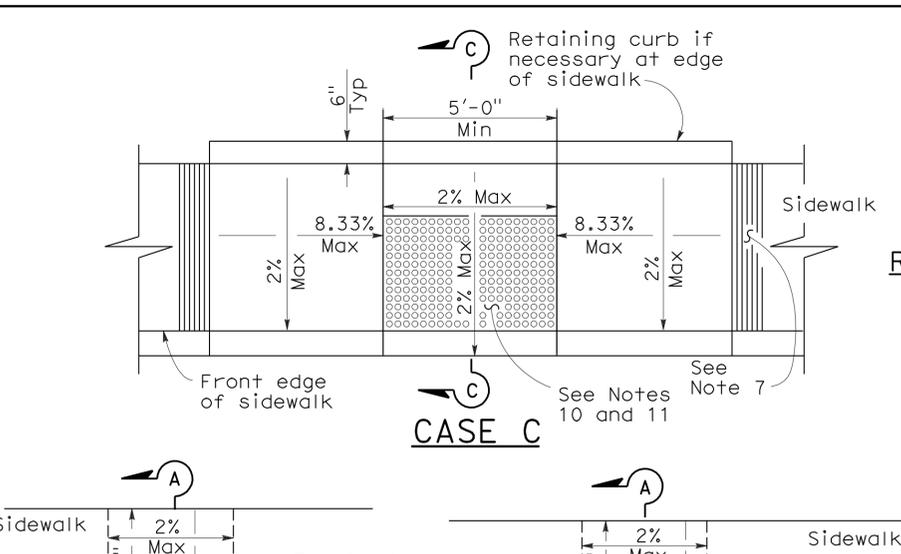
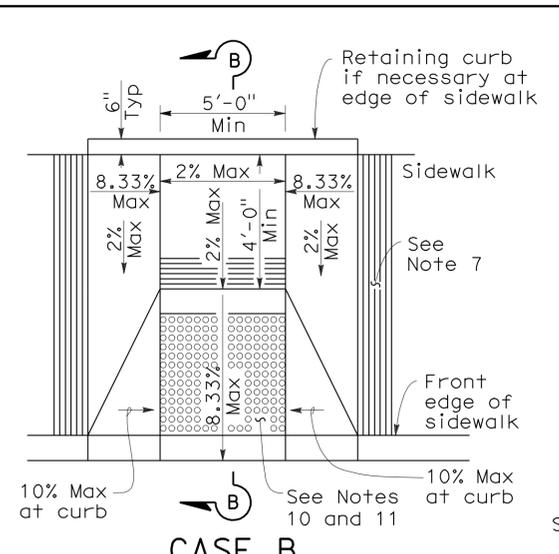
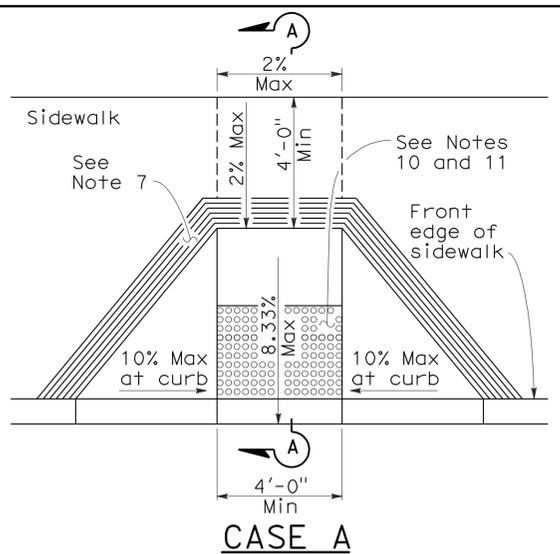
NSP A78C6 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP A78C6

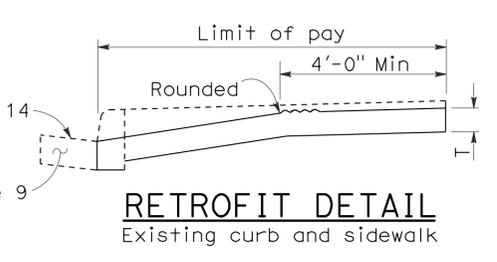
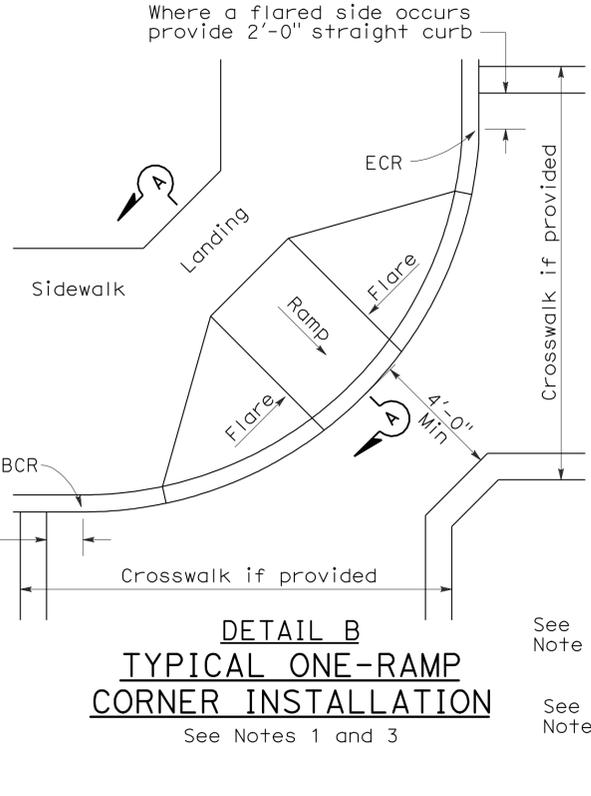
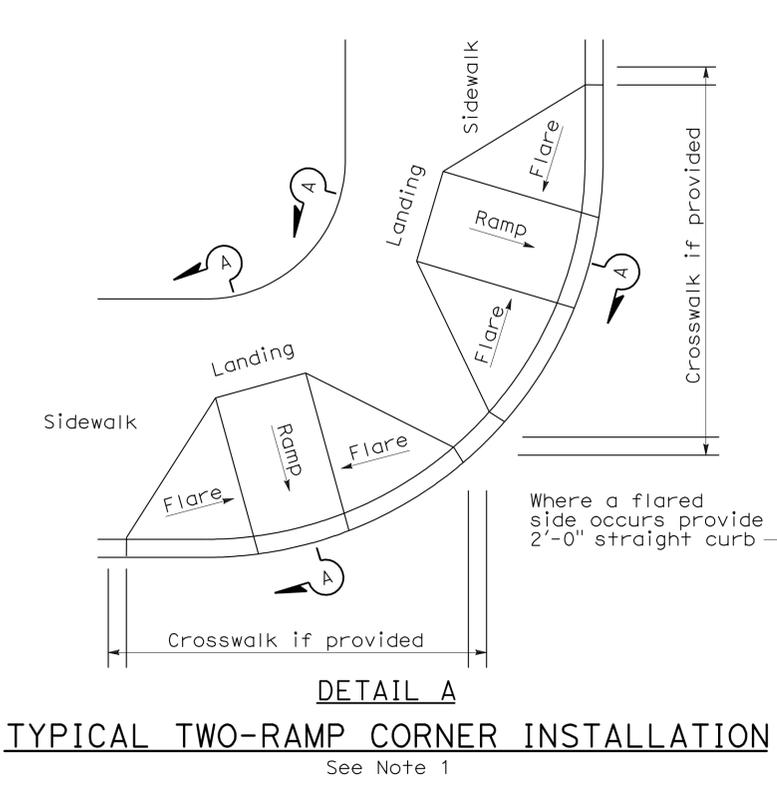
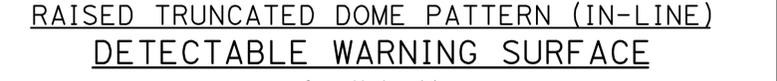
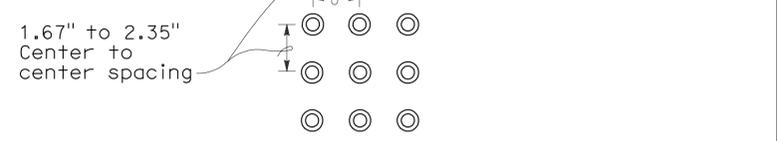
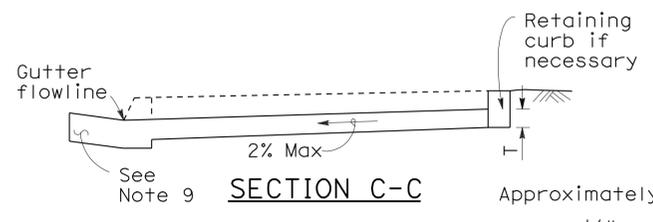
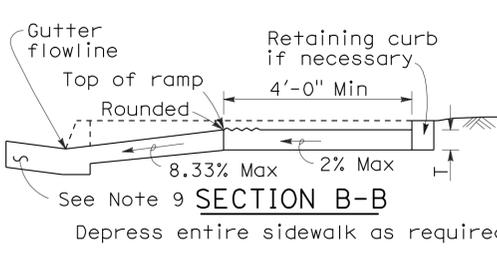
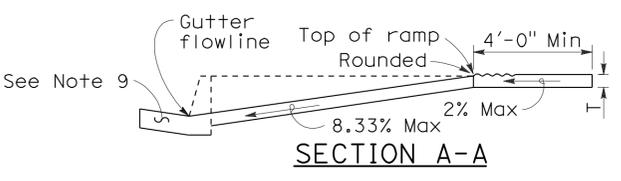
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	246	352

H. David Cordova
 REGISTERED CIVIL ENGINEER
 September 1, 2006
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
Hector David Cordova
No. C41957
Exp. 3-31-08
CIVIL
STATE OF CALIFORNIA



- NOTES:**
- As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
 - If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-0" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
 - When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
 - As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
 - If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-0".
 - Side slope of ramp flares vary uniformly from a maximum of 10% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
 - The curb ramp shall be outlined, as shown, with a 1'-0" wide border with 1/4" grooves approximately 3/4" on center. See grooving detail.
 - Transitions from ramps and landing to walks, gutters or streets shall be flush and free of abrupt changes.
 - Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp or accessible route shall not exceed 5 percent within 4'-0" of the top and bottom of the curb ramp.
 - Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. Detectable Warning Surfaces shall conform to the details on this plan and the requirements in the Special Provisions.
 - The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
 - Sidewalk and ramp thickness, "T", shall be 3/2" minimum.
 - Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
 - For retrofit conditions, removal and replacement of curb apron will be at the Contractor's option, unless otherwise shown on project plans.



See Note 10
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
CURB RAMP DETAILS
 NO SCALE

RSP A88A DATED SEPTEMBER 1, 2006 SUPERSEDES STANDARD PLAN A88A
 DATED MAY 1, 2006 - PAGE 115 OF THE STANDARD PLANS BOOK DATED MAY 2006.

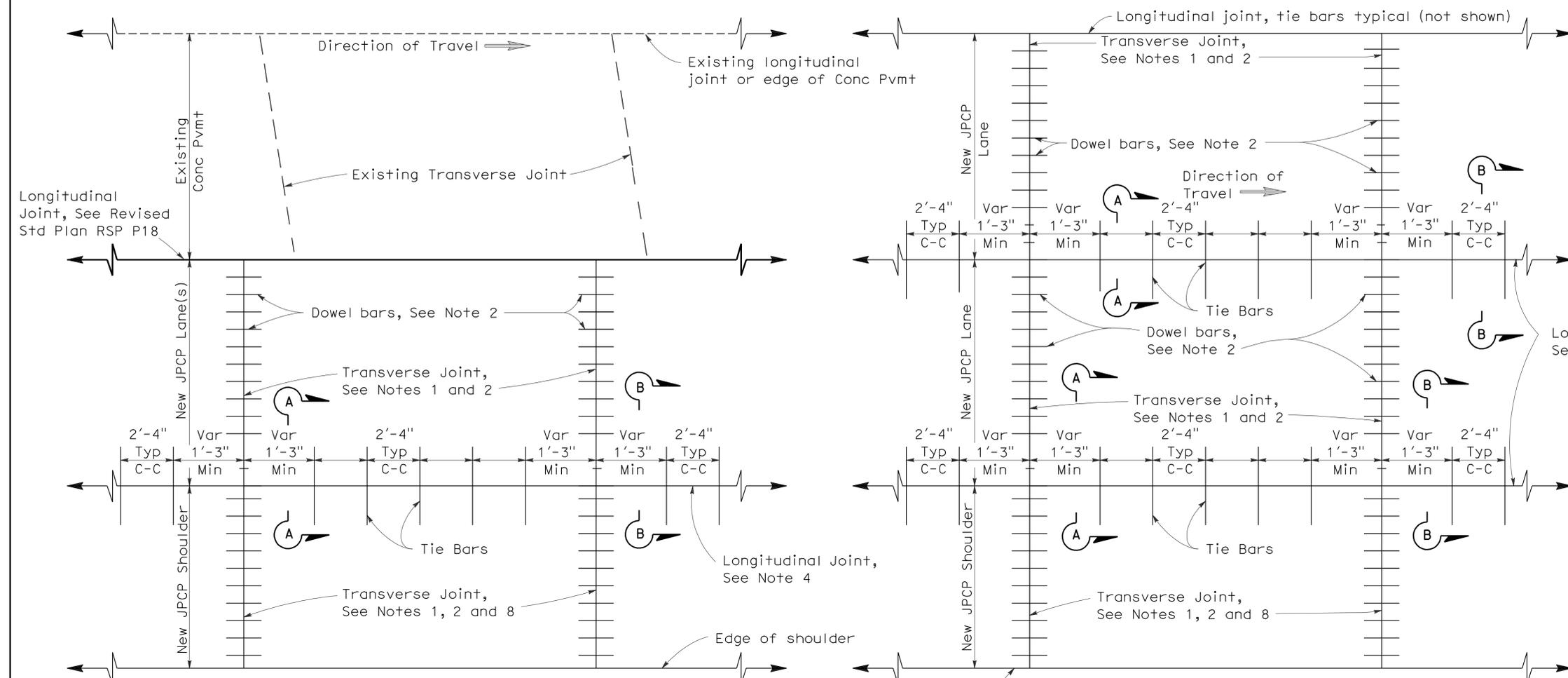
REVISED STANDARD PLAN RSP A88A

2006 REVISED STANDARD PLAN RSP A88A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	247	352

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 11-28-11



PLAN
LANE/SHOULDER ADDITION OR RECONSTRUCTION

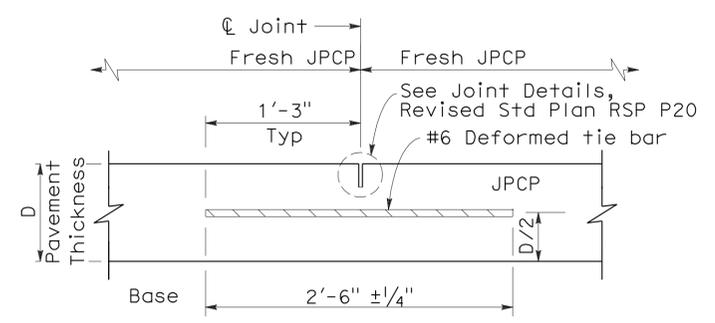
See Notes 6 and 7

PLAN
NEW CONSTRUCTION

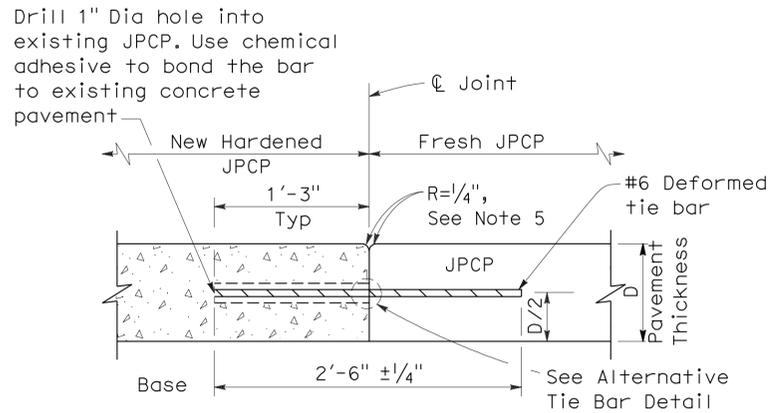
See Notes 6 and 7

NOTES:

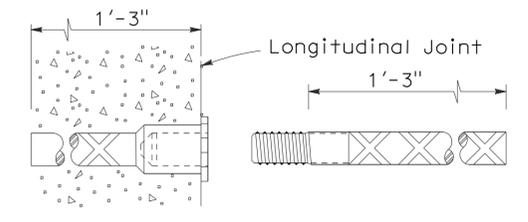
1. Transverse joints shall be constructed at right angles to the longitudinal pavement joints in new jointed plain concrete pavement and spaced at successive repeated intervals of 12', 15', 13' and 14'.
2. For transverse joint and dowel bar details not shown, See Revised Standard Plan RSP P10.
3. Construct longitudinal contraction joints as shown in Section A-A when more than one lane or shoulder widths are placed at one time. If constructing one lane at a time, use longitudinal construction joint, as shown in Section B-B.
4. For additional longitudinal joint details, see Revised Standard Plan RSP P18.
5. If fresh concrete is placed adjacent to existing concrete, the top corner of the new hardened concrete does not need to be rounded to the 1/4" radius as shown.
6. Joint spacing patterns do not apply to intersections.
7. Details can also apply to inside widening.
8. Dowel bars may be omitted from shoulders when the shoulder cross slope is not the same as the adjacent traffic lane.



SECTION A-A
LONGITUDINAL CONTRACTION JOINT



SECTION B-B
LONGITUDINAL CONSTRUCTION JOINT



ALTERNATIVE TIE BAR SPLICE DETAIL
(Splice Coupler)

TIE BAR DETAILS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**JOINTED PLAIN
CONCRETE PAVEMENT**

NO SCALE

RSP P1 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P1
DATED MAY 1, 2006 - PAGE 119 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P1

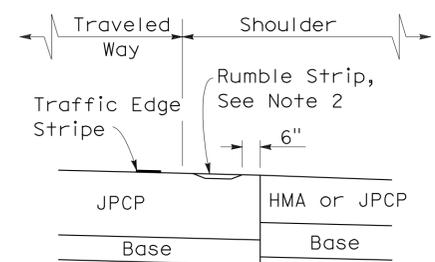
2006 REVISED STANDARD PLAN RSP P1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	248	352

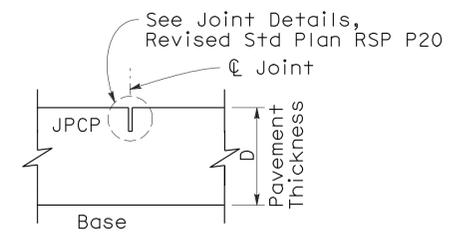
William K. Farnbach
 REGISTERED CIVIL ENGINEER
 June 5, 2009
 PLANS APPROVAL DATE
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To accompany plans dated 11-28-11

- NOTES:**
1. Transverse joints shall be constructed at right angles to the longitudinal pavement joints in new Jointed Plain Concrete Pavement and spaced at successive repeated intervals of 12', 15', 13' and 14'.
 2. For locations of rumble strips, see project plans. For rumble strip details not shown, see Standard Plans A40A and A40B.
 3. Joint spacing patterns do not apply to intersections.



DETAIL "A"



SECTION C-C
TRANSVERSE/LONGITUDINAL JOINT
(no dowel bars/tie bars)

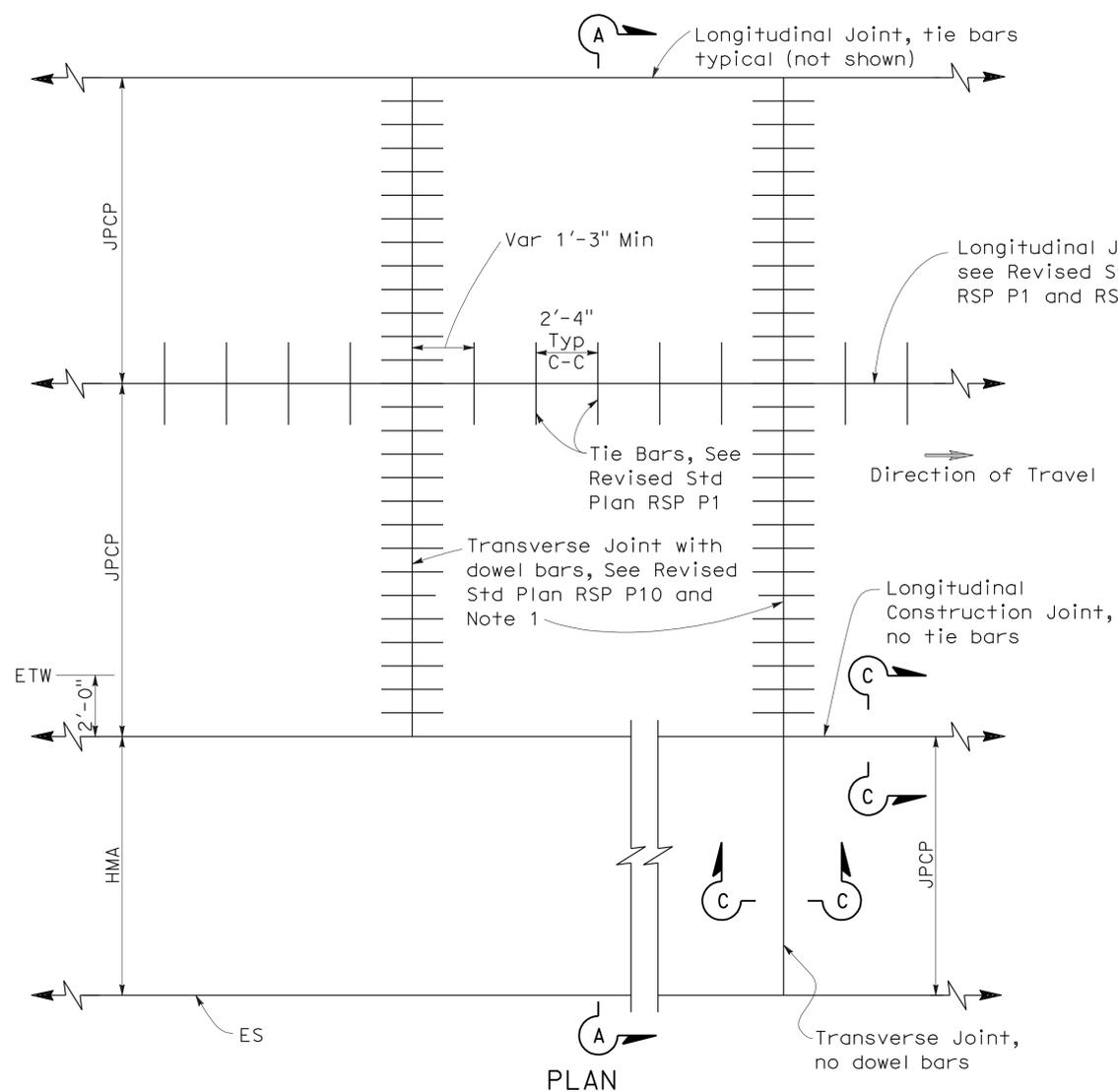
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINTED PLAIN CONCRETE PAVEMENT-WIDENED SLAB DETAILS

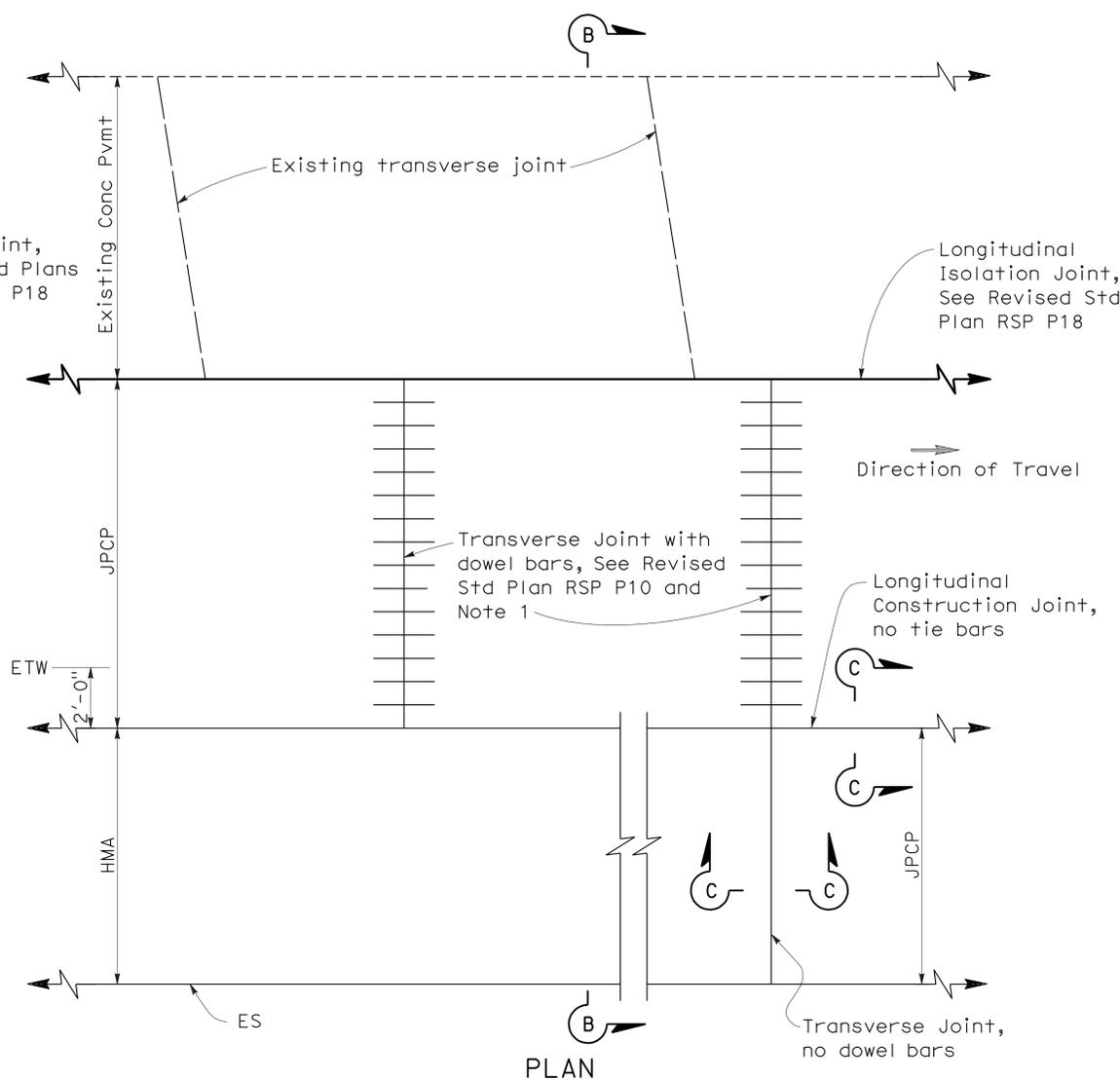
NO SCALE

RSP P2 DATED JUNE 5, 2009 SUPERCEDES STANDARD PLAN P2
DATED MAY 1, 2006 - PAGE 120 OF THE STANDARD PLANS BOOK DATED MAY 2006.

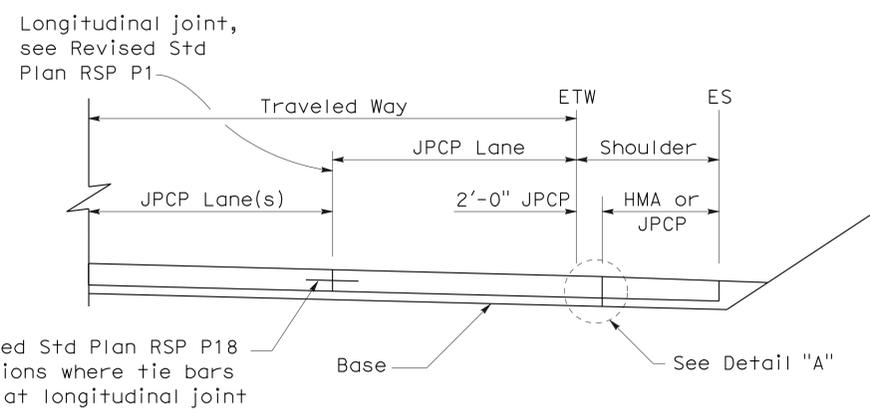
REVISED STANDARD PLAN RSP P2



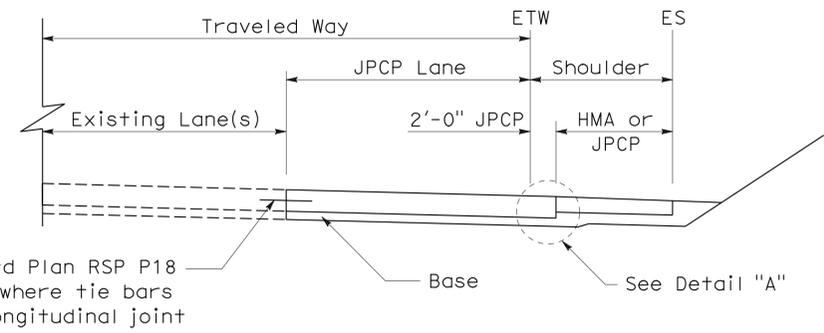
PLAN
NEW CONSTRUCTION



PLAN
LANE/SHOULDER ADDITION OR RECONSTRUCTION

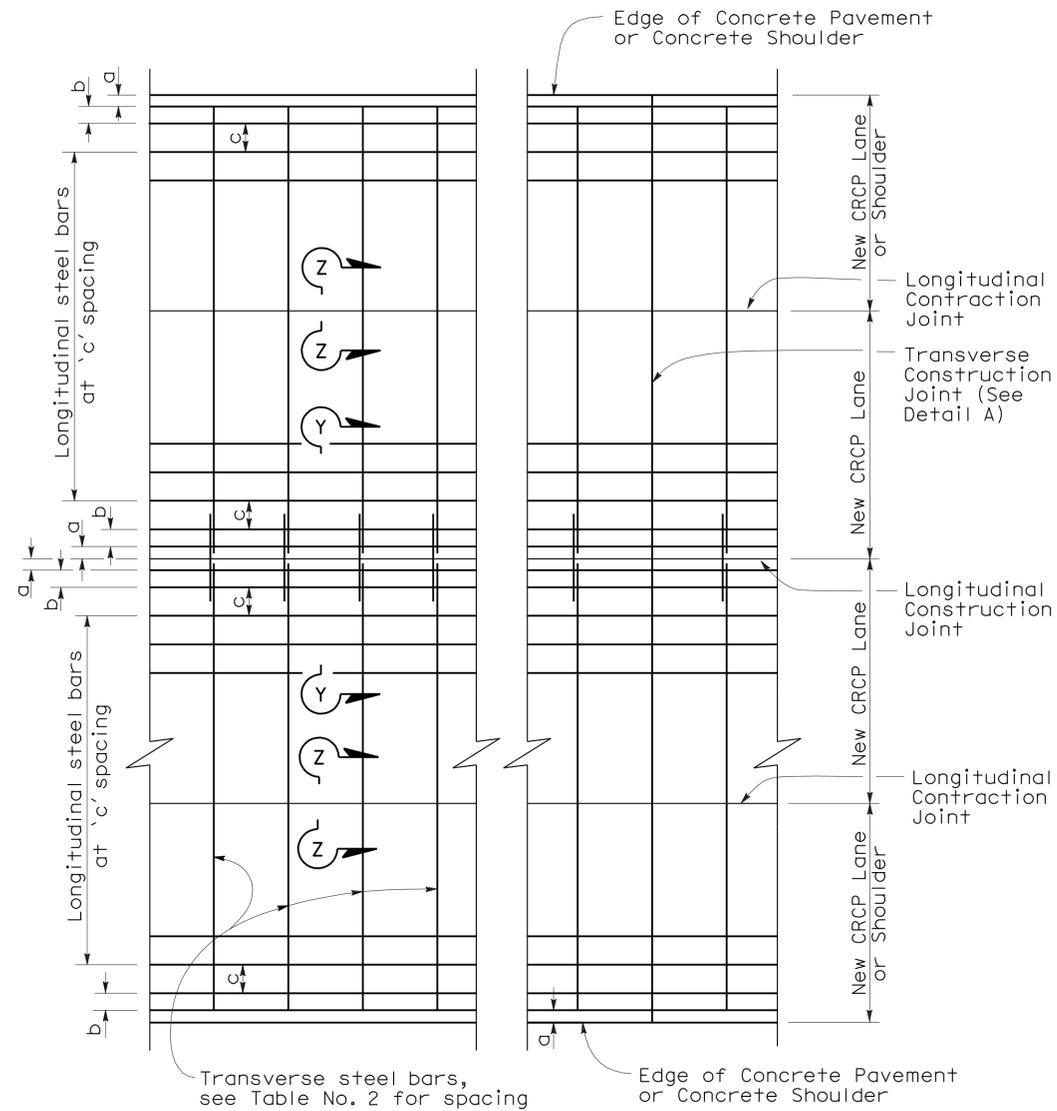


SECTION A-A

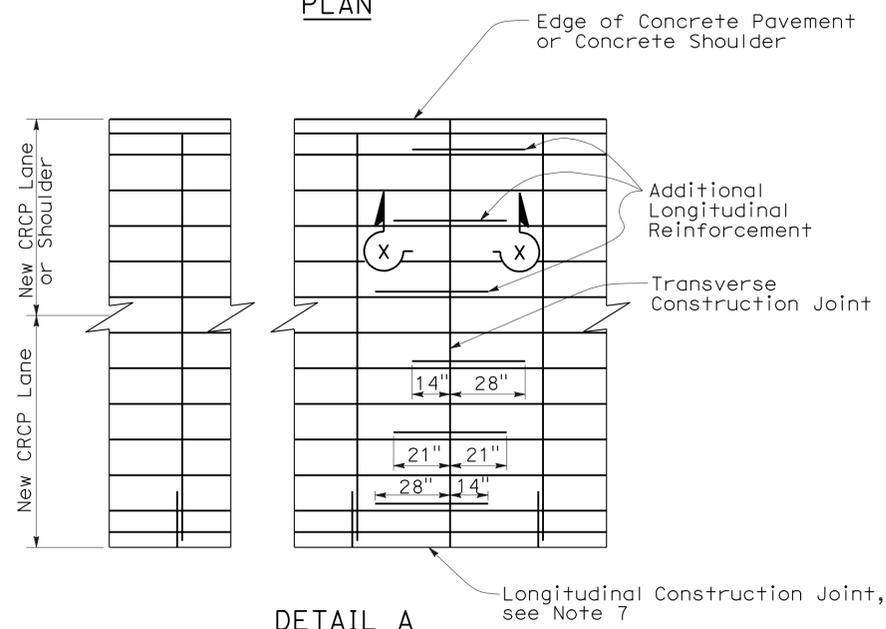


SECTION B-B

2006 REVISED STANDARD PLAN RSP P2



PLAN



DETAIL A

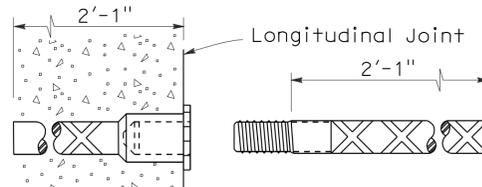
ADDITIONAL LONGITUDINAL REINFORCEMENT AT TRANSVERSE CONSTRUCTION JOINT

TABLE No. 1 LONGITUDINAL STEEL

Slab Thickness and Bar Size	First Spacing at Edge or Joint	Second Spacing from Edge or Joint	Regular Steel Bars	Additional Reinforcement at Transverse Construction Joint	Cir		
D	Bar Size	Spacing a	Spacing b	Spacing c	Spacing $2 \times c$	Length L	X
.80'	#6	3" TO 4"	3" TO 8"	8"	16"	42"	4"
.85'	#6	3" TO 4"	3" TO 7"	7"	14"	42"	4"
.90'	#6	3" TO 4"	3" TO 6.5"	6.5"	13"	42"	4"
.95'	#6	3" TO 4"	3" TO 6"	6.5"	13"	42"	4"
1.00'	#6	3" TO 4"	3" TO 6"	6"	12"	42"	4.25"
1.05'	#6	3" TO 4"	3" TO 5.5"	6"	12"	42"	4.5"
1.10'	#6	3" TO 4"	3" TO 5.5"	5.5"	11"	42"	4.75"

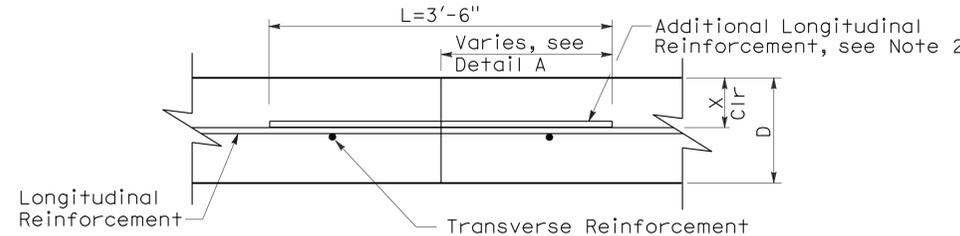
TABLE No. 2 TRANSVERSE STEEL

Slab Thickness and Bar Size	Pvmt Width (From Edge of Conc Pvmt or Conc Shld to Nearest Edge of Conc Pvmt or Conc Shld)							
	$\leq 48'$	$\leq 60'$	$\leq 72'$	$\leq 84'$	$\leq 96'$	$\leq 108'$	$\leq 120'$	
D	Bar Size	Spacing	Spacing	Spacing	Spacing	Spacing	Spacing	
.80'	#6	3'	3'	3'	2.5'	2'	2'	1.5'
.85'	#6	3'	3'	2.5'	2.5'	2'	1.5'	1.5'
.90'	#6	3'	2.5'	2.5'	2'	2'	1.5'	1.5'
.95'	#6	3'	2.5'	2'	2'	1.5'	1.5'	1'
1.00'	#6	3'	2.5'	2'	2'	1.5'	1.5'	1'
1.05'	#6	2.5'	2.5'	2'	1.5'	1.5'	1.5'	1'
1.10'	#6	2.5'	2.5'	2'	1.5'	1.5'	1.5'	1'



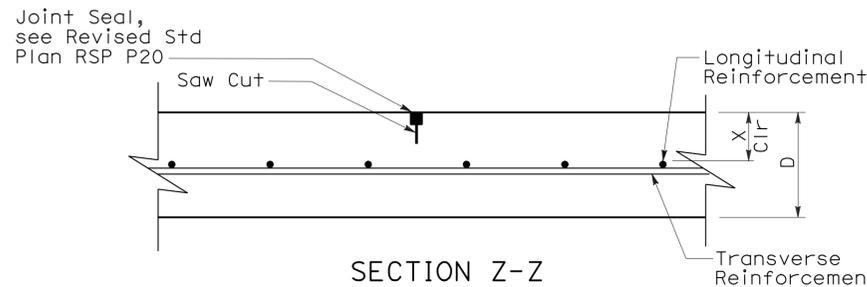
TIE BAR SPLICE DETAIL

(Splice Coupler)



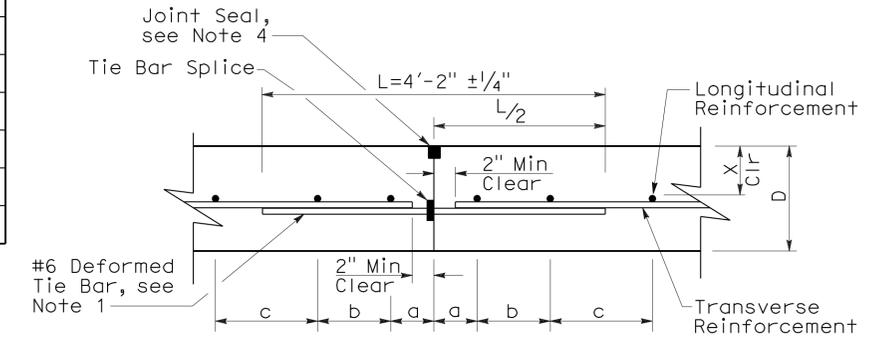
SECTION X-X

TRANSVERSE CONSTRUCTION JOINT

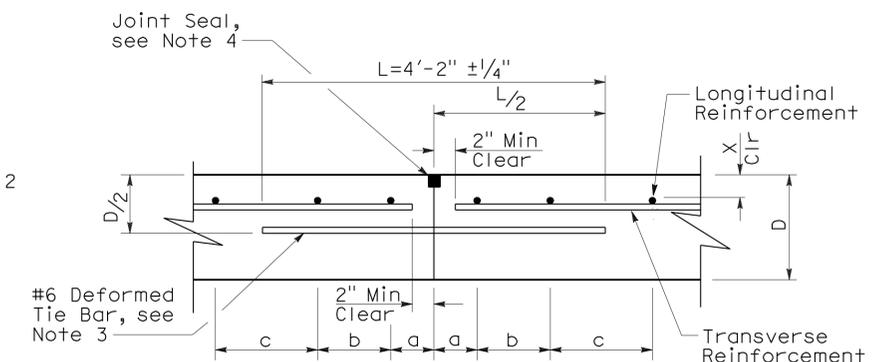


SECTION Z-Z

LONGITUDINAL CONTRACTION JOINT



SECTION Y-Y



ALTERNATE

LONGITUDINAL CONTRACTION JOINT

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**CONTINUOUSLY REINFORCED
 CONCRETE PAVEMENT**

NO SCALE

RNSP P4 DATED JUNE 5, 2009 SUPERSEDES NSP P4 DATED MAY 15, 2009 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED NEW STANDARD PLAN RNSP P4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	250	352

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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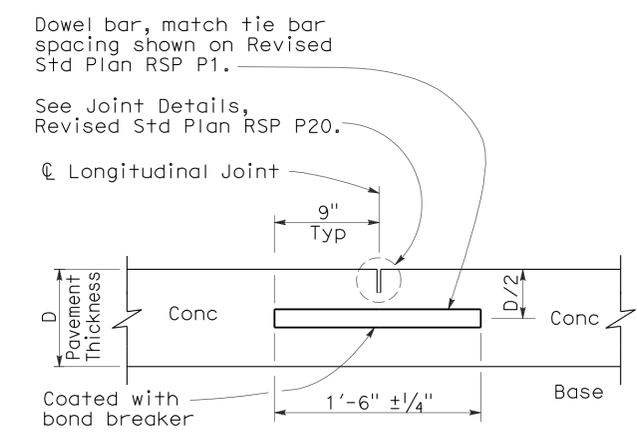
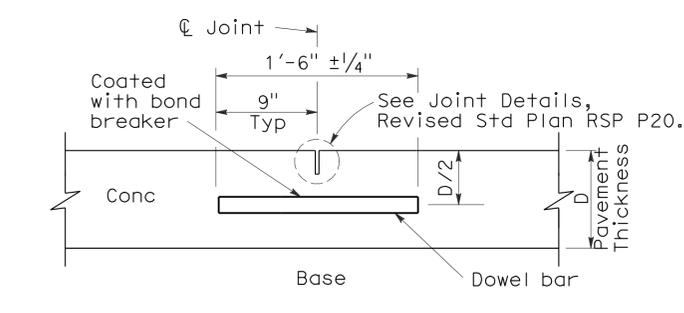
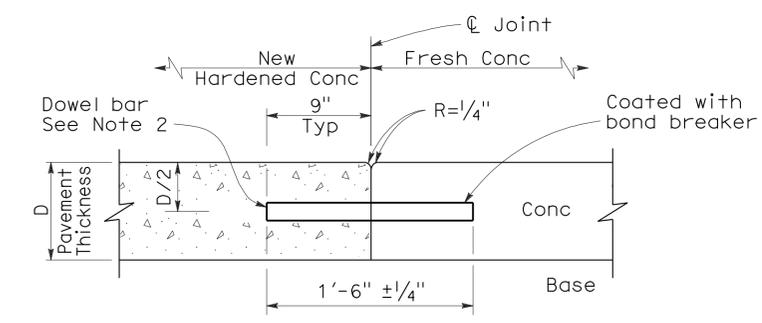
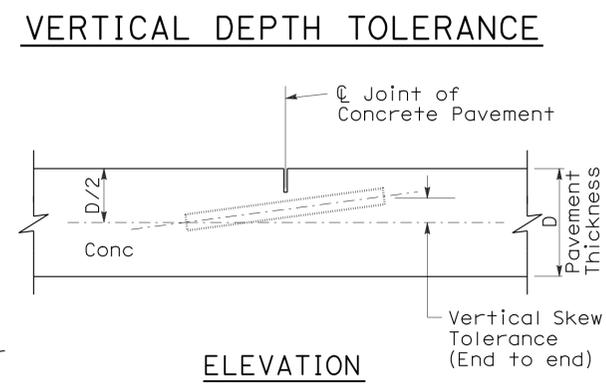
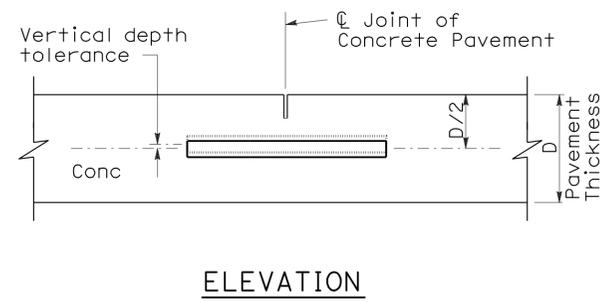
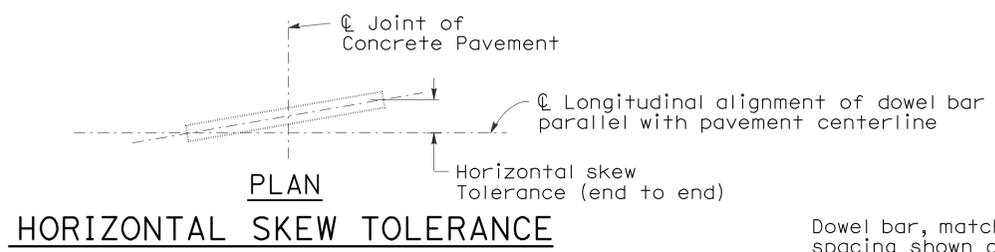
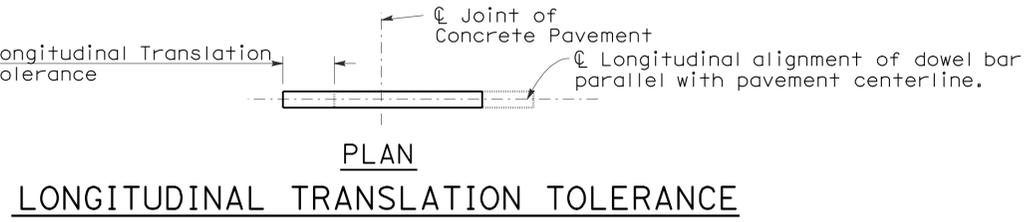
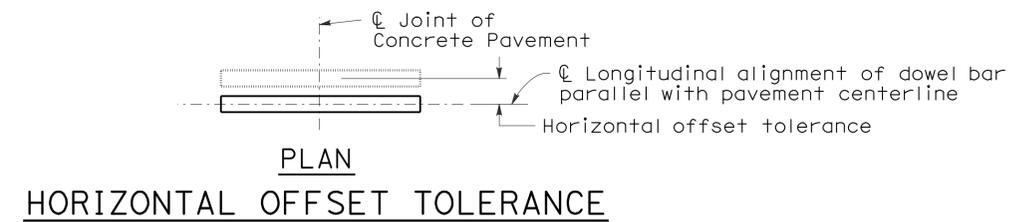
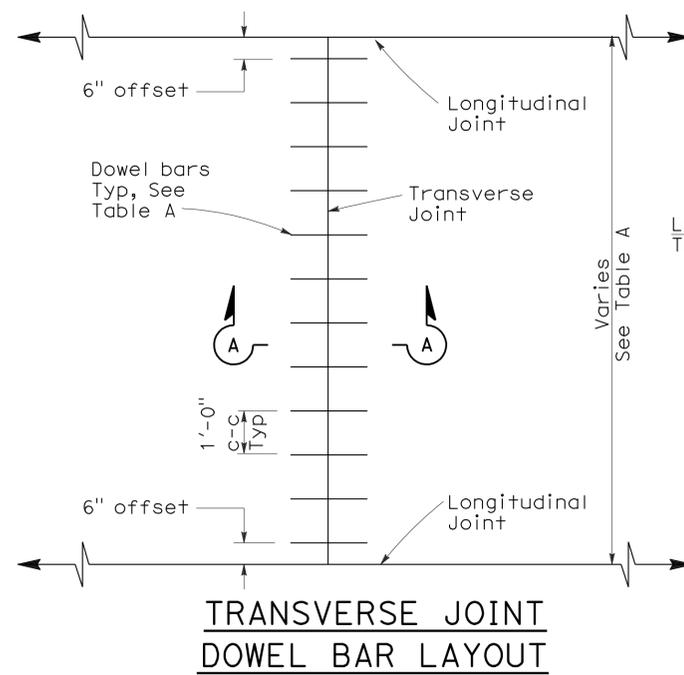


TABLE A (See Note 3)

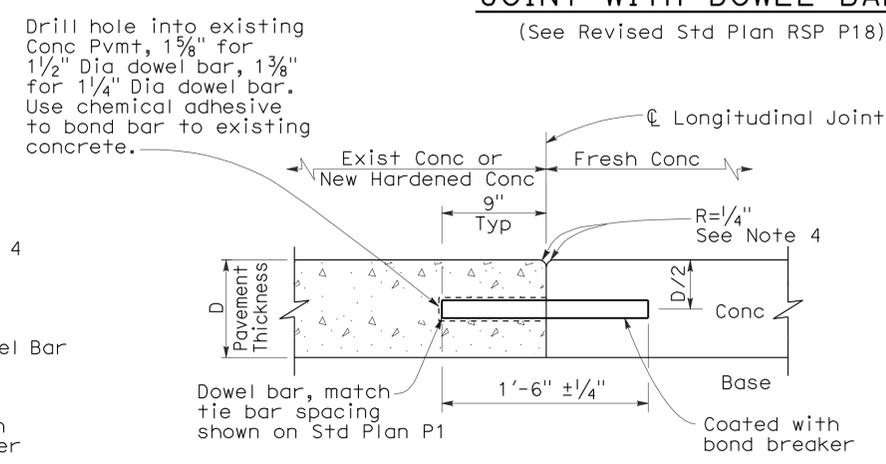
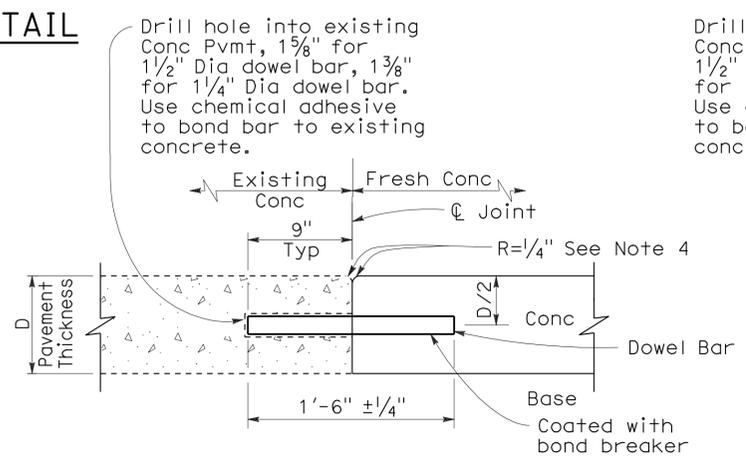
Dowel Bar Transverse Spacing Table

Width between Longitudinal Joints	Number of Dowels between Longitudinal Joints
14'-0"	14
13'-0"	13
12'-0"	12
11'-0"	11
10'-0"	10
8'-0"	8
5'-0"	5
4'-0"	4

SECTION A-A
TRANSVERSE
CONSTRUCTION JOINT DETAIL

TRANSVERSE CONTRACTION JOINT

LONGITUDINAL CONTRACTION
JOINT WITH DOWEL BARS
(See Revised Std Plan RSP P18)



TRANSVERSE CONSTRUCTION JOINT
FOR EXISTING CONCRETE PAVEMENT
(Drill and bond locations)

LONGITUDINAL CONSTRUCTION JOINT
WITH DOWEL BARS
(See Revised Std Plan RSP P18)

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

RSP P10 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P10
DATED MAY 1, 2006 - PAGE 124 OF THE STANDARD PLANS BOOK DATED MAY 2006.

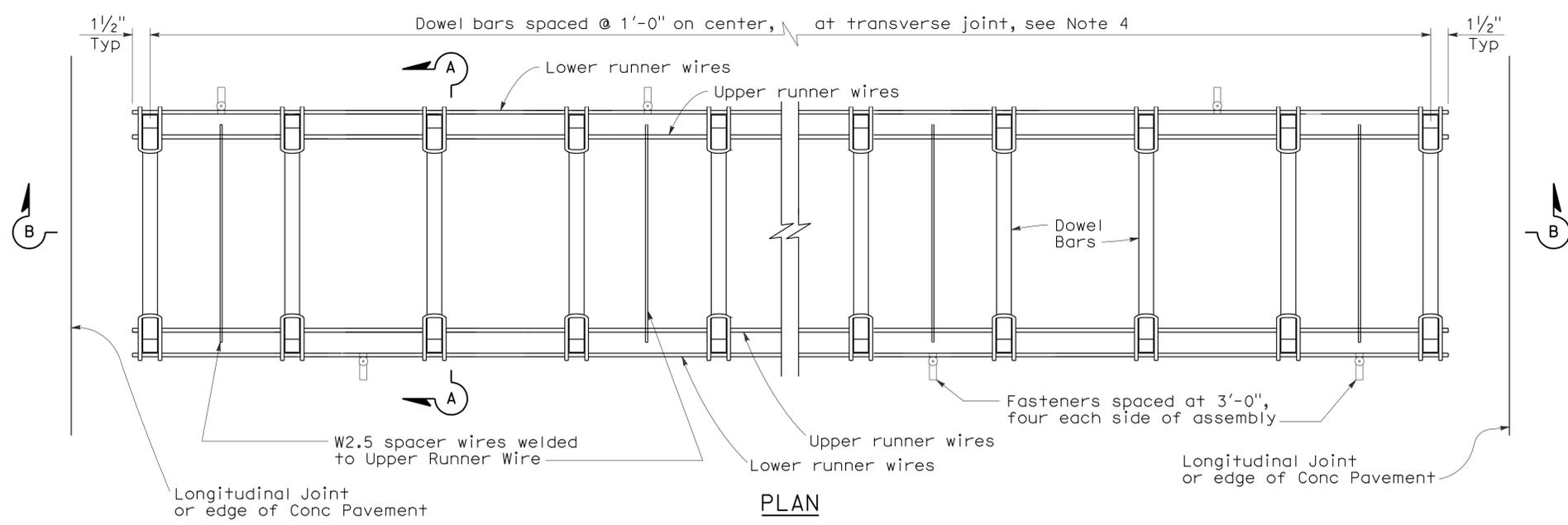
2006 REVISED STANDARD PLAN RSP P10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	251	352

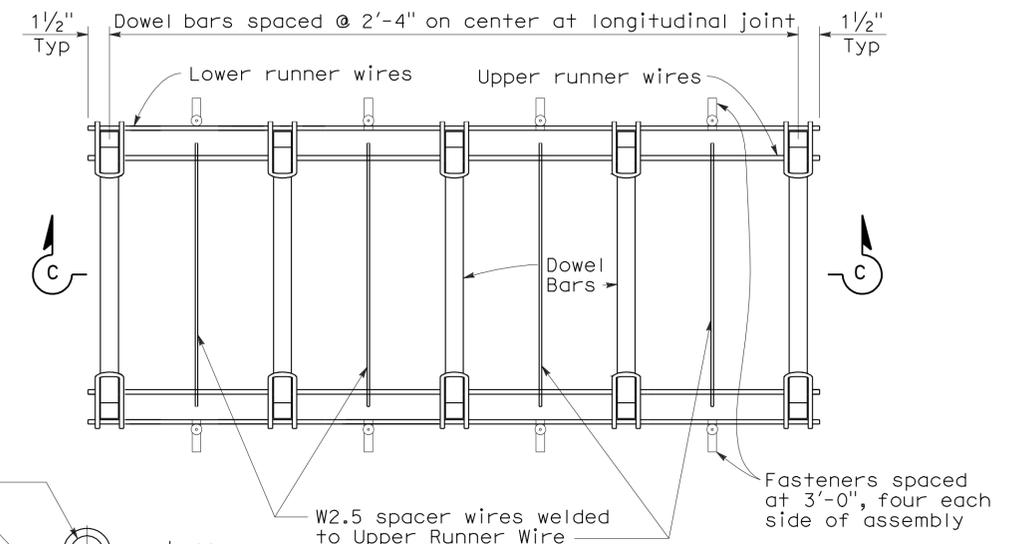
William K. Farnbach
 REGISTERED CIVIL ENGINEER
 May 15, 2009
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 William K. Farnbach
 No. C49042
 Exp. 9-30-10
 CIVIL
 STATE OF CALIFORNIA

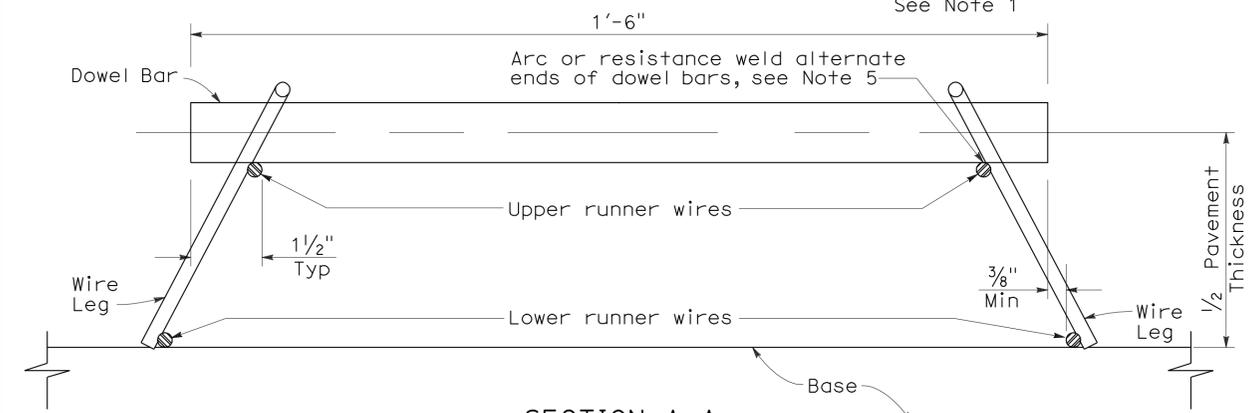
To accompany plans dated 11-28-11



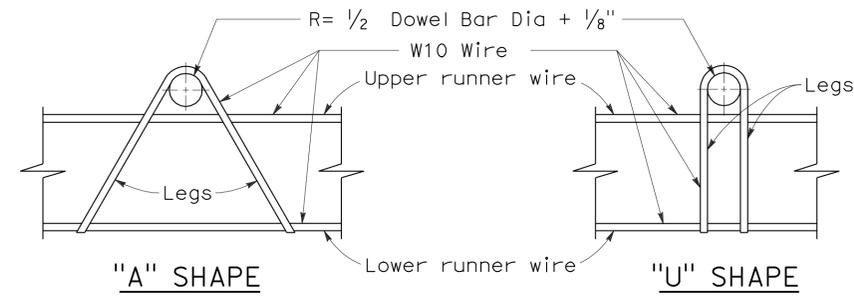
**PLAN
DOWEL BAR BASKET
(TRANSVERSE JOINT)**
See Note 1



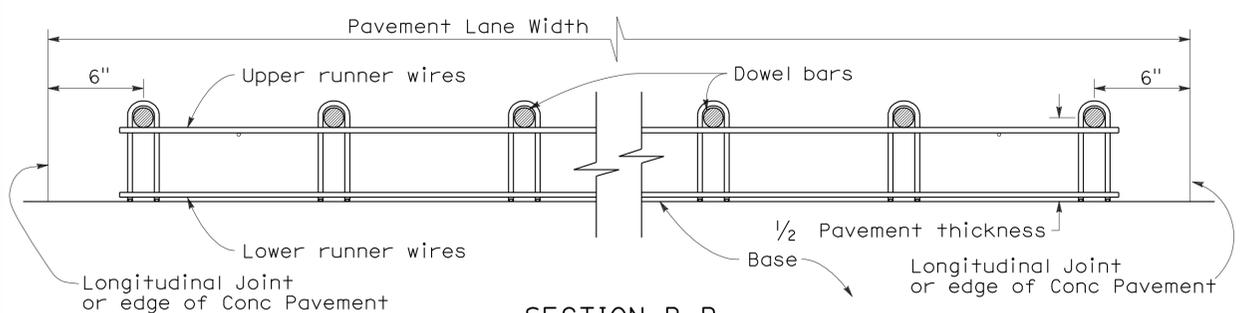
**PLAN
DOWEL BAR BASKET
(LONGITUDINAL JOINT)**
See Note 1



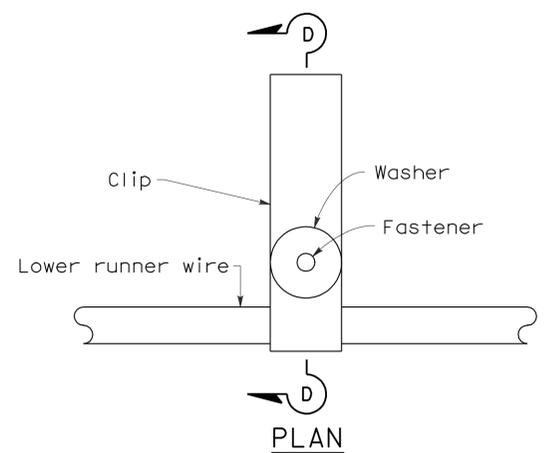
SECTION A-A



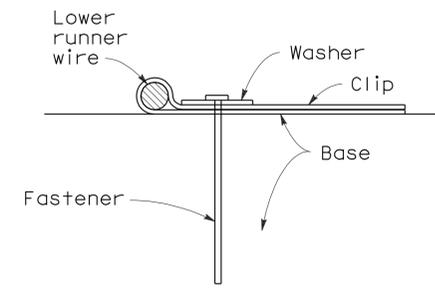
ASSEMBLY FRAME DETAILS



SECTION B-B
See Note 1



FASTENER DETAIL



SECTION D-D

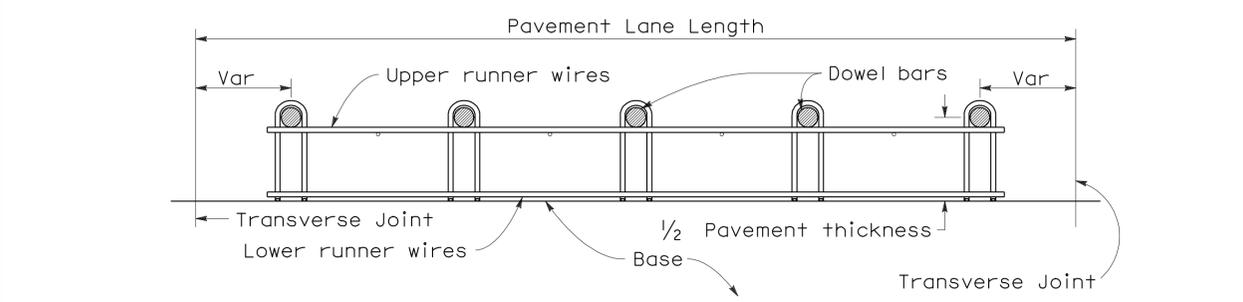
NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**CONCRETE PAVEMENT-
DOWEL BAR BASKET
DETAILS**

NO SCALE



SECTION C-C
See Notes 1 and 4

RSP P12 DATED MAY 15, 2009 SUPERSEDES RSP P12 DATED NOVEMBER 17, 2006 AND STANDARD PLAN P12 DATED MAY 1, 2006 - PAGE 125 OF THE STANDARD PLANS BOOK DATED MAY 2006.

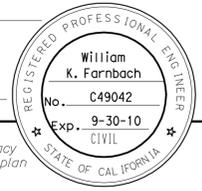
REVISED STANDARD PLAN RSP P12

2006 REVISED STANDARD PLAN RSP P12

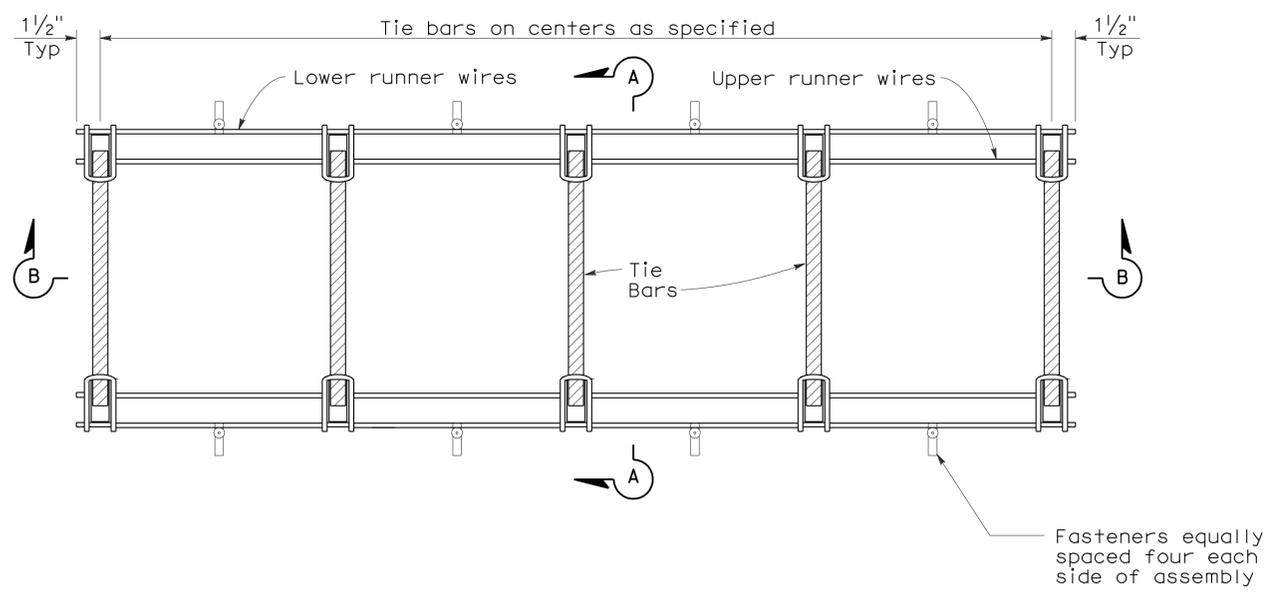
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	252	352

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

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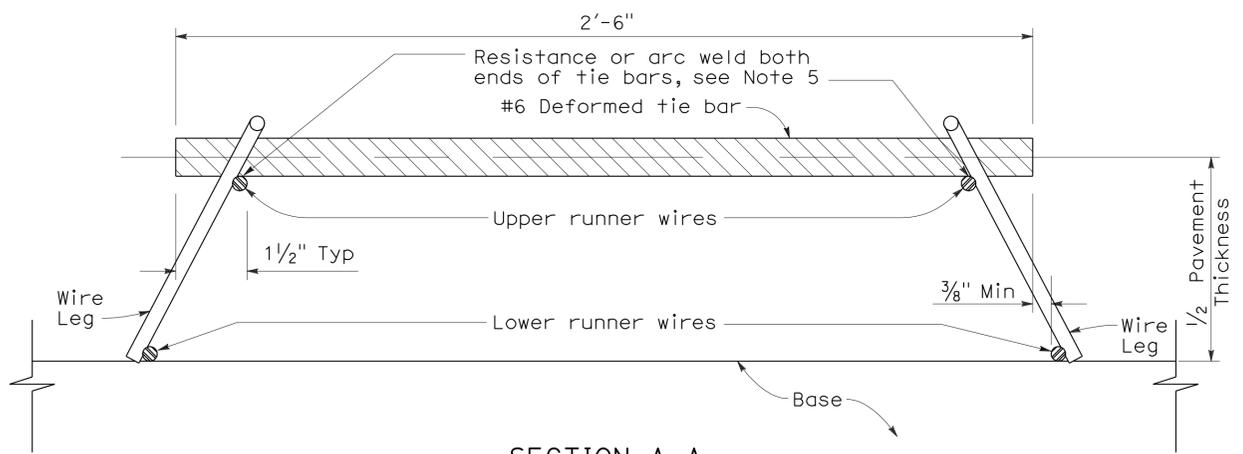


To accompany plans dated 11-28-11

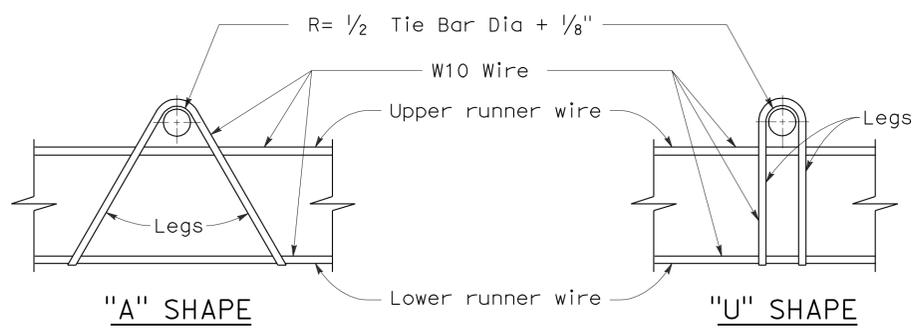


PLAN
TIE BAR BASKET
 (TIE BARS AT LONGITUDINAL JOINT)
 See Note 1

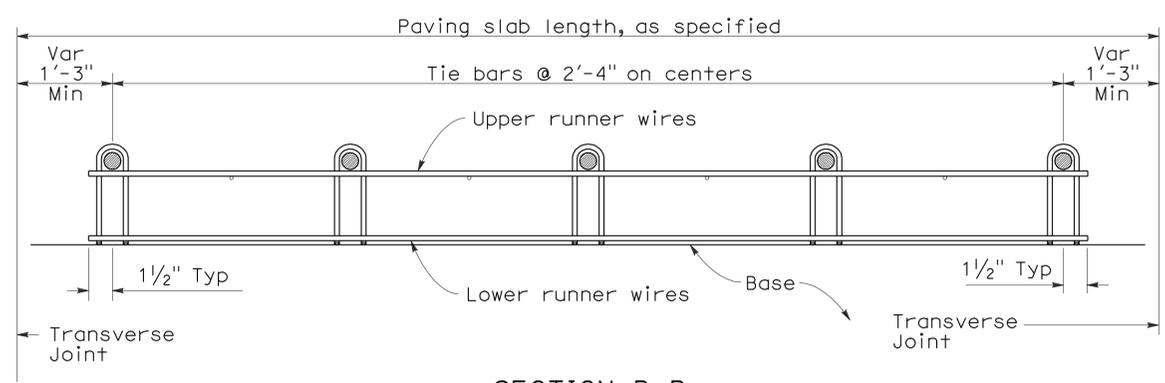
- NOTES:**
- "U" frame shape assembly shown. "U" frame shape or "A" frame shape are acceptable.
 - Wire sizes shown are minimum required.
 - All wire intersections are to be resistance welded.
 - Not for use on nondoweled skewed jointed plain concrete pavement.
 - Weld may be at top or bottom of tie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



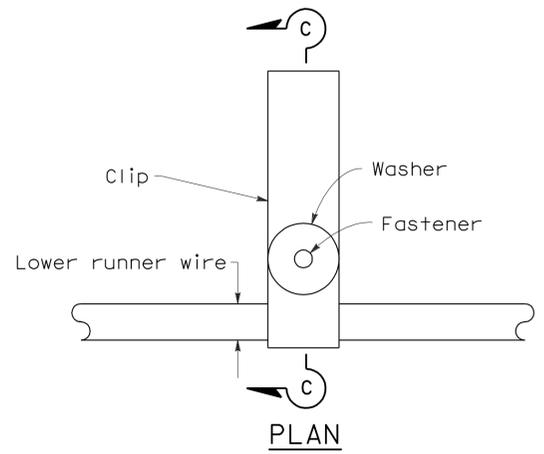
SECTION A-A



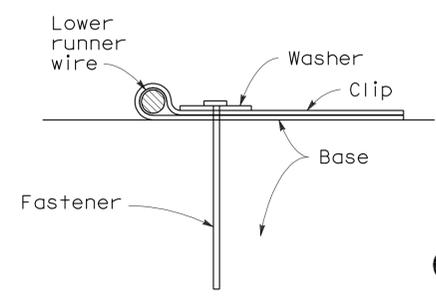
ASSEMBLY FRAME DETAILS



SECTION B-B
 See Note 1



FASTENER DETAIL



SECTION C-C

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

NO SCALE

RSP P17 DATED MAY 15, 2009 SUPERSEDES RSP P17 DATED NOVEMBER 17, 2006 AND STANDARD PLAN P17 DATED MAY 1, 2006 - PAGE 126 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P17

2006 REVISED STANDARD PLAN RSP P17

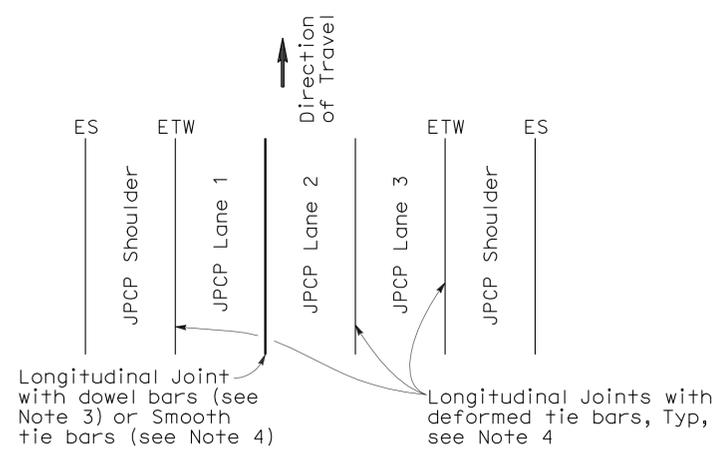
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	253	352

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 June 5, 2009
 PLANS APPROVAL DATE

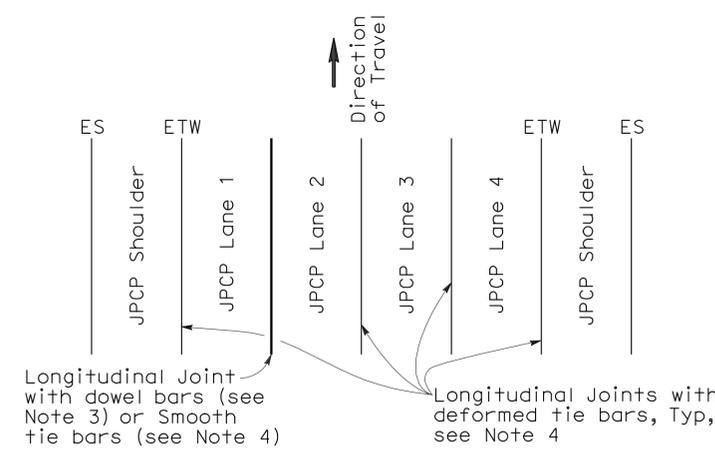
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 11-28-11

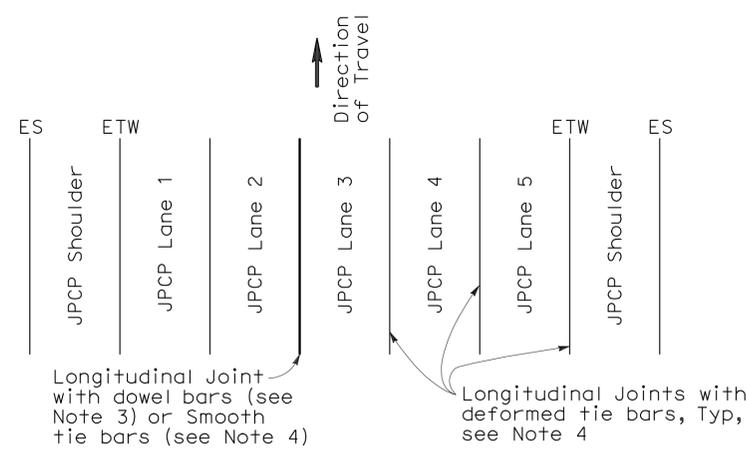
2006 REVISED STANDARD PLAN RSP P18



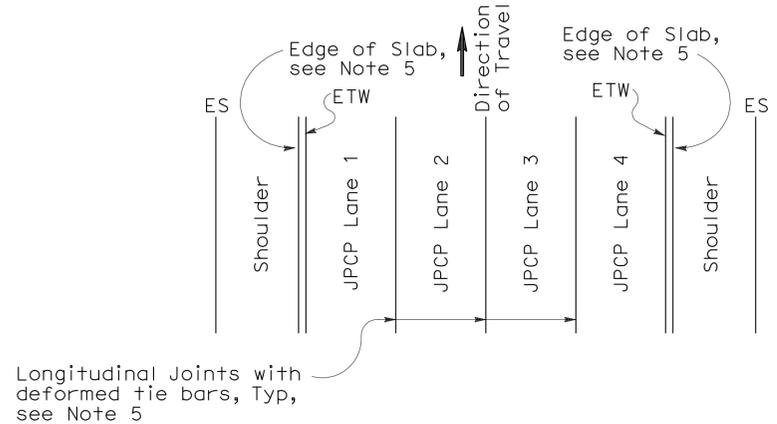
3 LANES WITH TIED CONCRETE SHOULDERS
PLAN



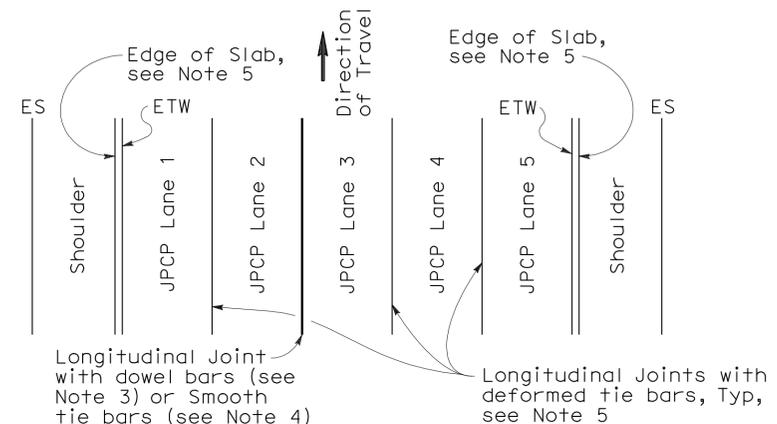
4 LANES WITH TIED CONCRETE SHOULDERS
PLAN



5 LANES WITH TIED CONCRETE SHOULDERS
PLAN



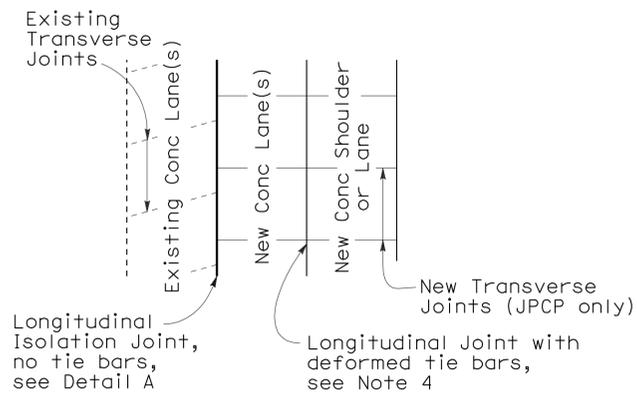
4 LANES OR LESS WITH WIDENED SLAB
PLAN



5 LANES WITH WIDENED SLAB
PLAN

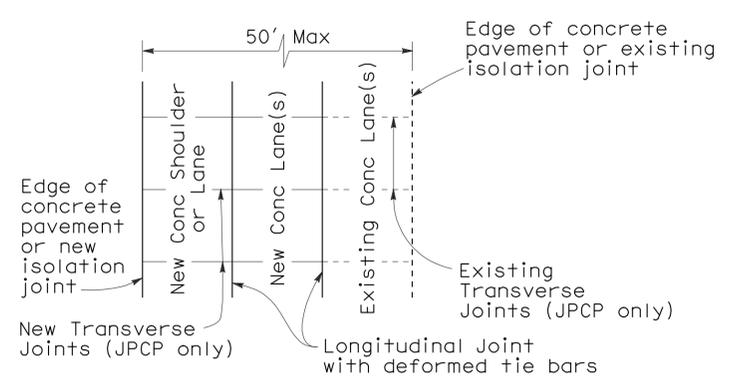
NEW CONSTRUCTION

Location of Longitudinal Joints (For JPCP)



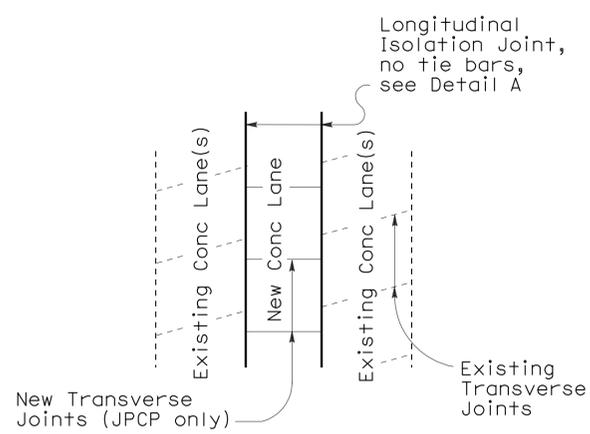
CASE 1
PLAN

Transverse Joints do not align between new and existing



CASE 2
PLAN

Transverse Joints align between new and existing

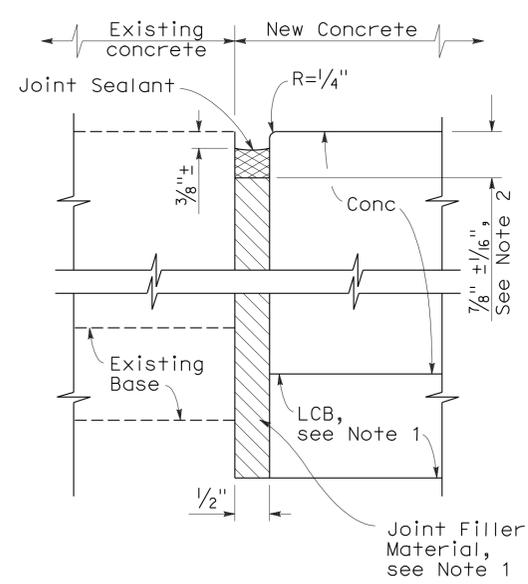


CASE 3 (INTERIOR LANE REPLACEMENT)
PLAN

Transverse Joints do not align between new and existing

LANE/SHOULDER ADDITION OR RECONSTRUCTION

(For JPCP and CRCP)



DETAIL A
ISOLATION JOINT

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

NO SCALE

RSP P18 DATED JUNE 5, 2009 SUPERSEDES RSP P18 DATED MAY 15, 2009, RSP P18 DATED NOVEMBER 17, 2006 AND STANDARD PLAN P18 DATED MAY 1, 2006 - PAGE 127 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P18

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.

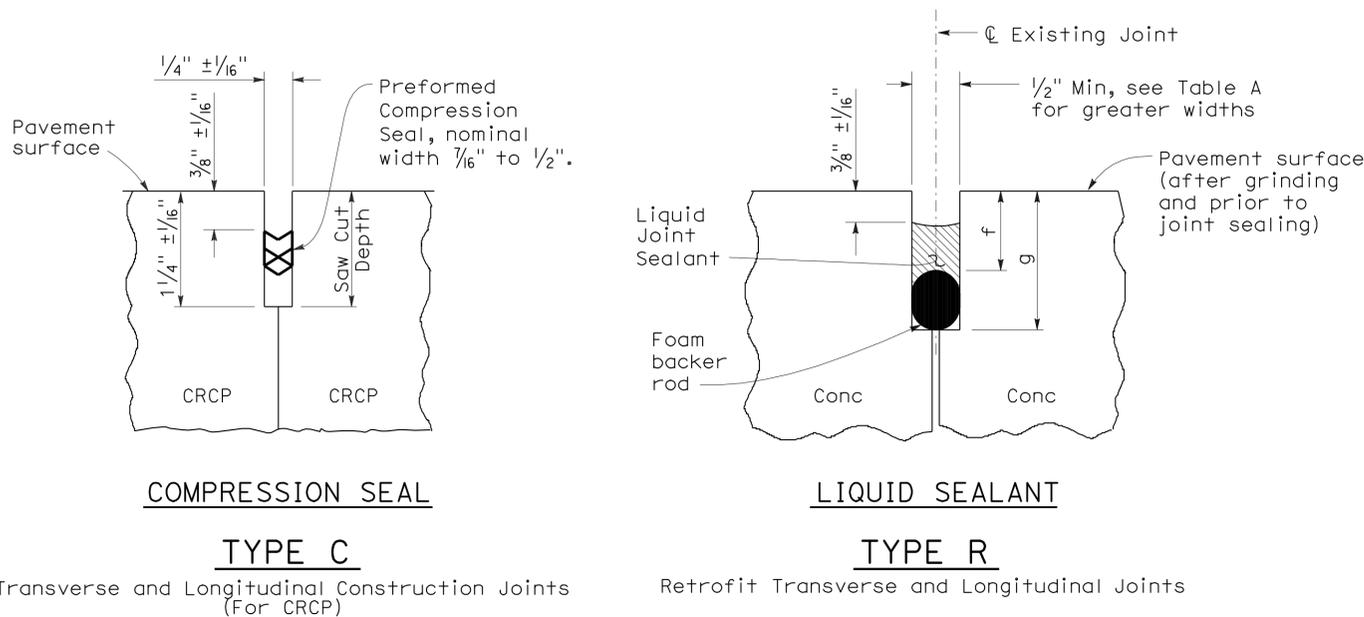
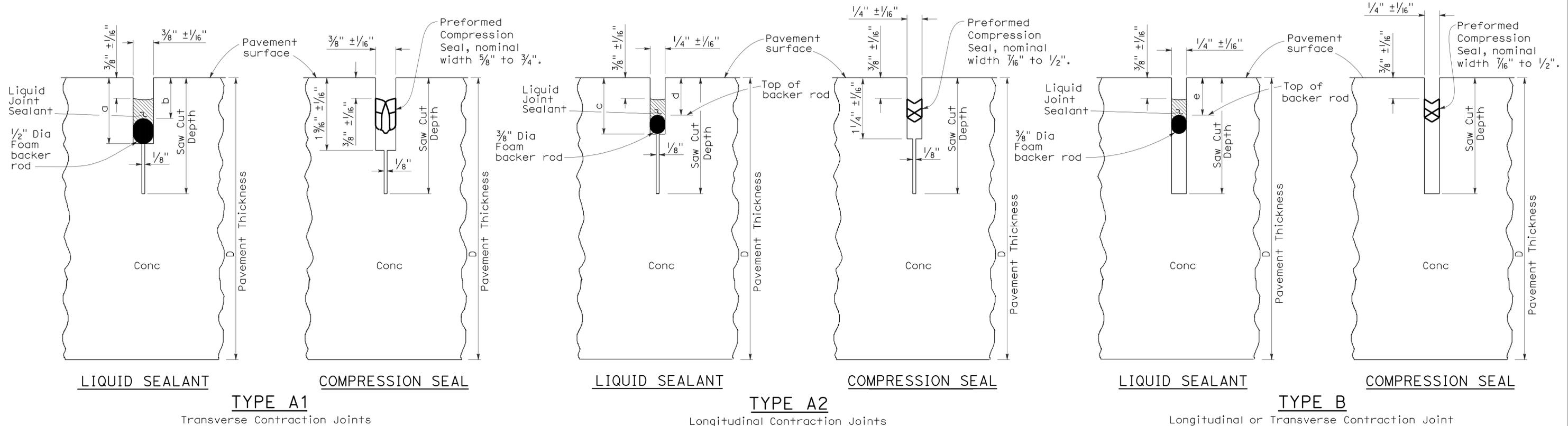
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	254	352

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

May 15, 2009
 PLANS APPROVAL DATE

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To accompany plans dated 11-28-11



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.

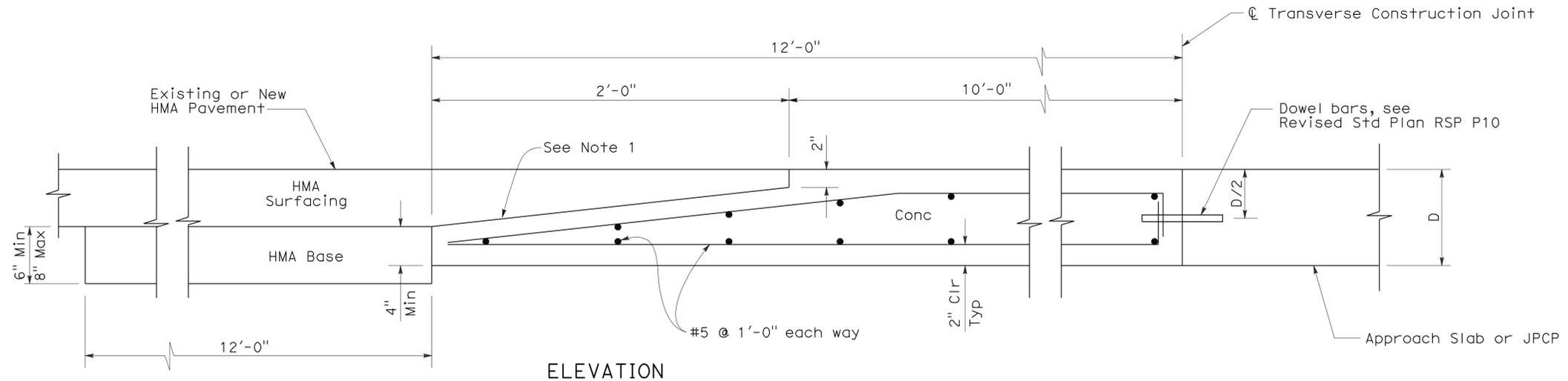
REVISED STANDARD PLAN RSP P20

2006 REVISED STANDARD PLAN RSP P20

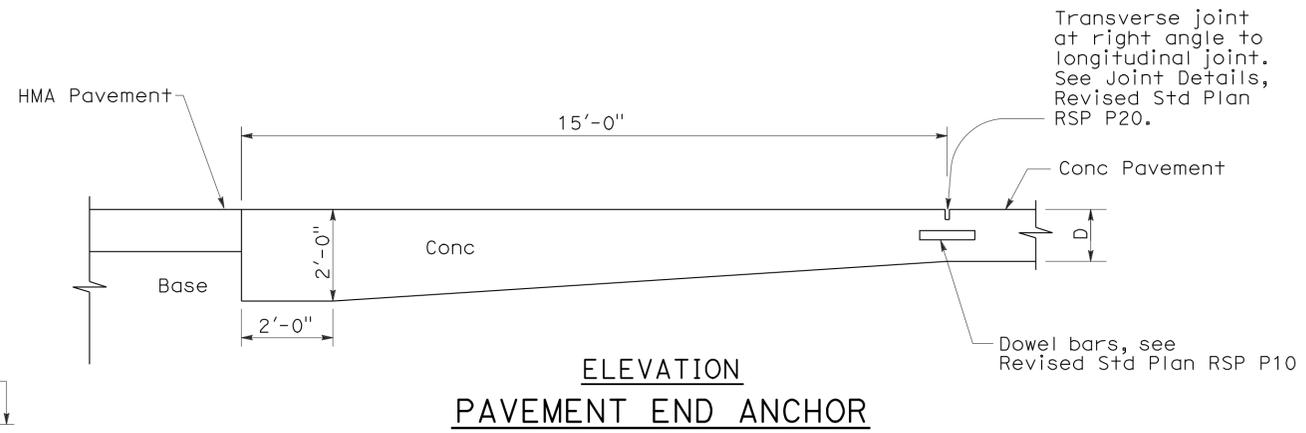
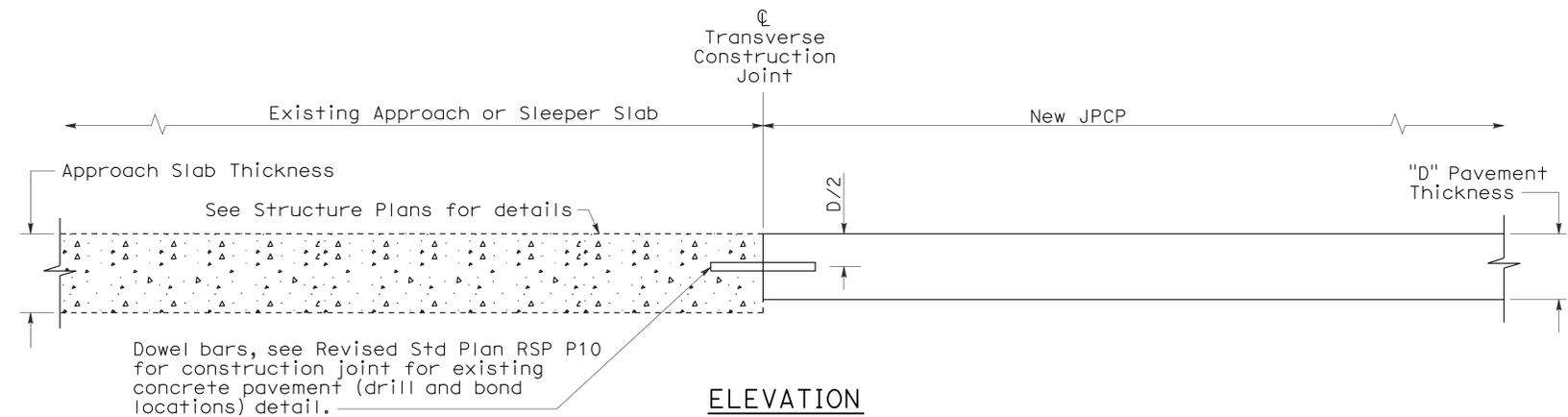
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	255	352

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 May 15, 2009
 PLANS APPROVAL DATE
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To accompany plans dated 11-28-11

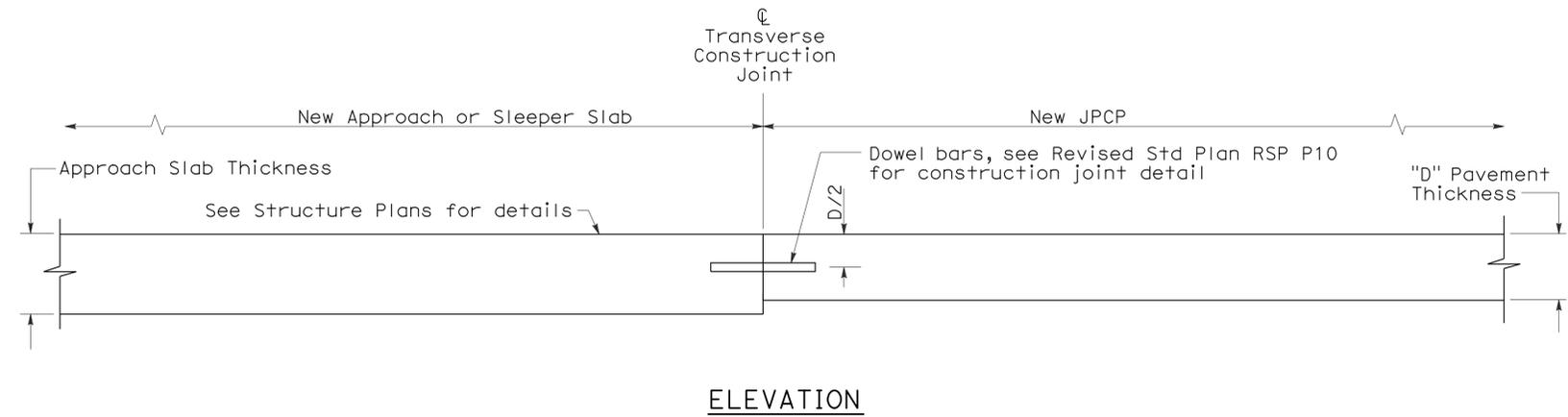


CONCRETE PAVEMENT TO HOT MIXED ASPHALT PAVEMENT TRANSITION PANEL



PAVEMENT END ANCHOR

NOTE:
1. Heavy broom finish.



CONCRETE PAVEMENT TRANSITION TO APPROACH OR SLEEPER SLAB

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**JOINTED PLAIN CONCRETE PAVEMENT-
END PANEL
PAVEMENT TRANSITIONS**
NO SCALE

RSP P30 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P30
DATED MAY 1, 2006 - PAGE 129 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P30

2006 REVISED STANDARD PLAN RSP P30

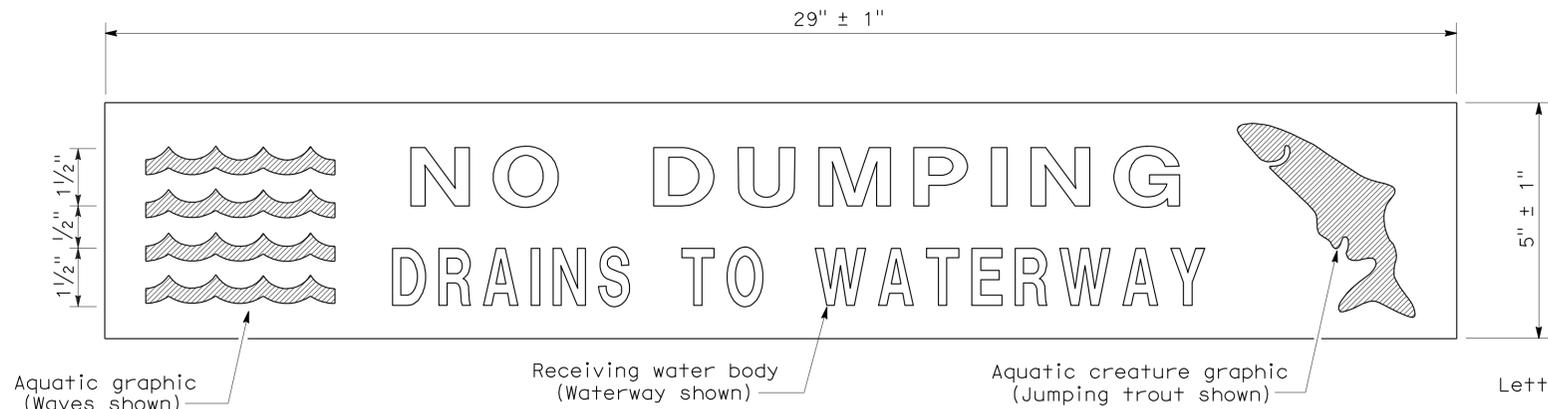
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	256	352

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT

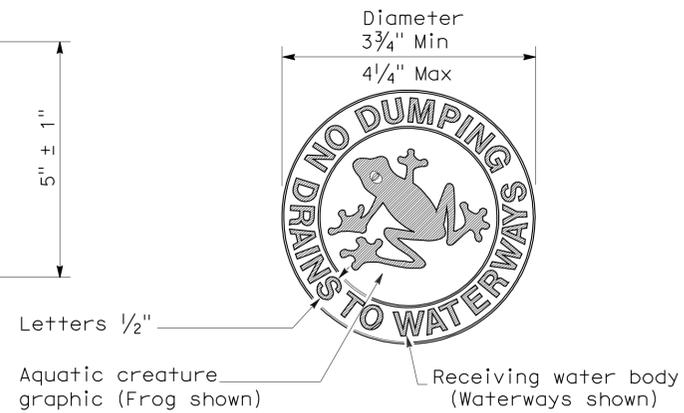
April 3, 2009
 PLANS APPROVAL DATE

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To accompany plans dated 11-28-11



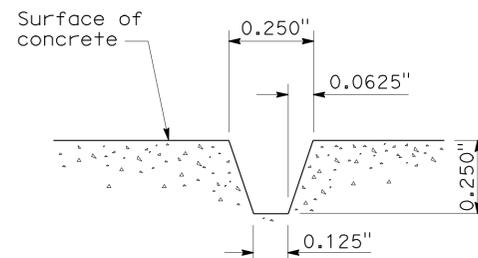
PLAN
 DRAINAGE INLET MARKER
 (PREFABRICATED THERMOPLASTIC)



PLAN
 DRAINAGE INLET MARKER
 (MEDALLION)

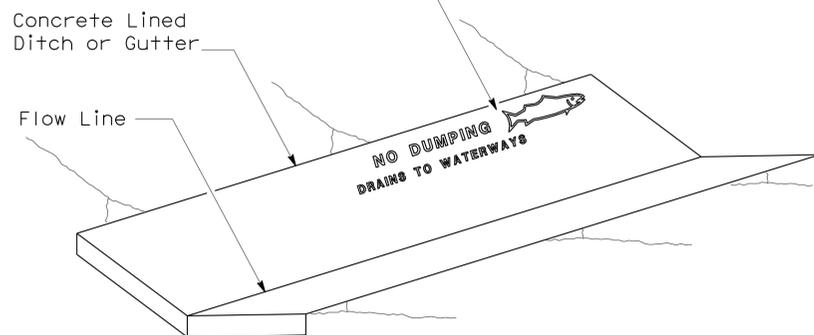


PLAN
 DRAINAGE INLET MARKER
 (STAMPED CONCRETE IMPRINT)

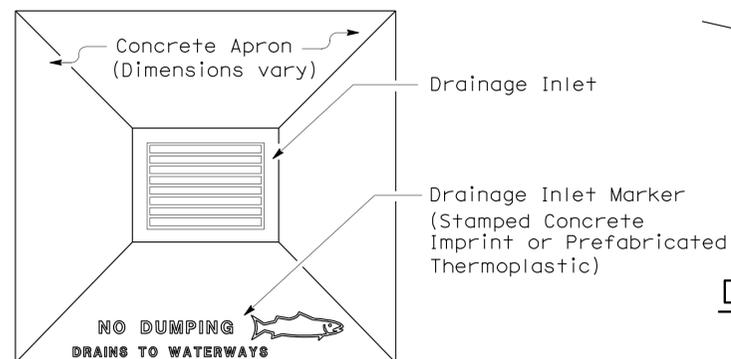


SECTION A-A
 STAMPED CONCRETE
 IMPRINT DETAIL

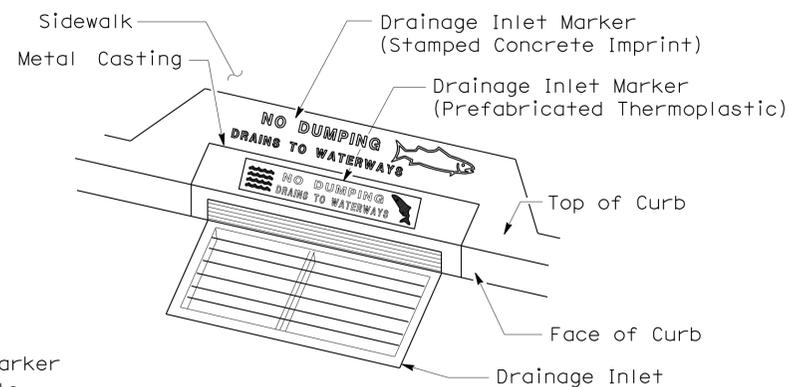
Drainage Inlet Marker
 (Stamped Concrete Imprint or
 Prefabricated Thermoplastic)
 Locations as shown on the
 plans or as directed by the
 Engineer



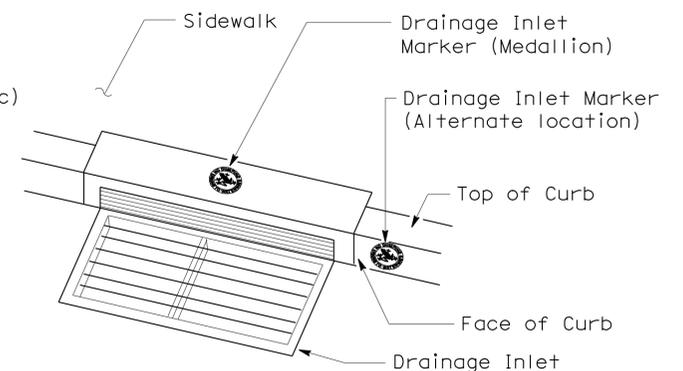
PERSPECTIVE
 DRAINAGE INLET MARKER ON
 CONCRETE LINED DITCH



PLAN
 DRAINAGE INLET MARKER ON
 DRAINAGE INLET APRON



PERSPECTIVE
 DRAINAGE INLET MARKER ON
 DRAINAGE INLET



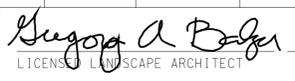
PERSPECTIVE
 DRAINAGE INLET MARKER (MEDALLION)
 ON DRAINAGE INLET

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
DRAINAGE INLET MARKERS
 NO SCALE

NSP D71 DATED APRIL 3, 2009 SUPPLEMENTS
 THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP D71

2006 NEW STANDARD PLAN NSP D71

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	257	352
 LICENSED LANDSCAPE ARCHITECT					
June 5, 2009 PLANS APPROVAL DATE					
					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

To accompany plans dated 11-28-11

2006 REVISED STANDARD PLAN RSP H1

A

AB aggregate base
 ABS acrylonitrile-butadiene-styrene
 AC asphalt concrete
 Adj adjacent/adjustable
 AIC auxiliary irrigation controller
 Alt alternative
 AMEND amendment
 ARV air release valve
 AUTO automatic
 AUX auxiliary
 AVB atmospheric vacuum breaker

B

B&B balled and burlapped
 B/B brass/bronze
 B/B/PL brass/bronze/plastic
 B/PL brass/plastic
 BFM bonded fiber matrix
 Bit Ctd bituminous coated
 BP booster pump
 BPA backflow preventer assembly
 BPAE backflow preventer assembly in enclosure
 BPE backflow preventer enclosure
 BV ball valve

C

CAP corrugated aluminum pipe
 CARV combination air release valve
 CCA cam coupler assembly
 CEC controller enclosure cabinet
 CHDPE corrugated high density polyethylene
 CL chain link
 CNC control and neutral conductors
 Conc concrete
 Cond conduit
 CSP corrugated steel pipe
 CST center strip
 CV check valve

D

Dia diameter
 DIP ductile iron pipe
 DN diameter nominal

E

EA each
 Elect electric/electrical
 Elev elevation
 ENCL enclosure
 EP edge of pavement
 ES edge of shoulder
 EST end strip
 ESTB establishment
 ETW edge of traveled way

F

F full circle
 F/P full/part circle
 FAU filter assembly unit
 FCV flow control valve
 FERT fertilizer
 FG finished grade
 FIPT female iron pipe thread
 FIS fertilizer injector system
 FL flow line
 FM flow monitor
 FS flow sensor
 Ft foot/feet
 FV flush valve

G

GAL Gallon(s)
 Galv galvanized
 GARV garden valve
 GPH gallons per hour
 GPM gallons per minute
 GSP galvanized steel pipe
 GV gate valve

H

H half circle
 HB hose bib
 HDPE high density polyethylene
 HP horsepower/hinge point
 HPL high pressure line
 Hwy highway

I

IC irrigation controller
 ICC irrigation controller(s) in controller enclosure cabinet
 ID inside diameter
 In inches
 IFS irrigation filtration system
 IPS iron pipe size
 IPT iron pipe thread
 Irr irrigation

L

L length
 LF linear foot

M

Max maximum
 MBGR metal beam guard railing
 MCV manual control valve
 MIC master irrigation controller
 Min minimum
 MIPT male iron pipe thread
 Misc miscellaneous
 Mtl material
 MVP maintenance vehicle pullout

N

NCN no common name
 NL nozzle line
 No. number
 NPT national pipe thread

O

O/C on center
 OD outside diameter
 Oz ounce

P

P part circle
 PB pull box
 PCC portland cement concrete
 PE polyethylene
 Pkt packet
 PL plastic
 PLT plant/planting
 PLT ESTB plant establishment
 PM post mile
 PR pressure rated
 PRLV pressure relief valve
 PSFM polymer stabilized fiber matrix
 PSI pounds per square inch
 PRV pressure reducing valve
 PVC polyvinyl chloride
 Pvmnt pavement

Q

Q quarter circle
 QCV quick coupling valve

R

R radius
 RCP reinforced concrete pipe
 RCV remote control valve
 RCVM remote control valve (master)
 RCVMF remote control valve (master) w/ flow meter
 RCW recycled/reclaimed water
 RECP rolled erosion control product
 REQ required
 R/W right of way

S

S slip
 SCC sprinkler control conduit
 SCH schedule
 SF state-furnished
 Shld shoulder
 SQFT square foot/feet
 SQYD square yard(s)
 SST side strip
 Sta station
 Std standard
 SW sidewalk/sound wall

T

T third circle/thread
 TLS truck loading standpipe
 TQ three quarter circle
 TRM turf reinforcement mat
 TRVD traveled
 TT two third circle
 Typ typical

U

UG underground

V

VAU valve assembly unit

W

W width
 W/ with
 WM water meter
 WS wye strainer
 WSP welded steel pipe
 WWM welded wire mesh

NOTE:
 FOR ADDITIONAL ABBREVIATIONS,
 SEE STANDARD PLANS A10A AND A10B.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PLANTING AND IRRIGATION
 ABBREVIATIONS**

NO SCALE
 RSP H1 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H1
 DATED MAY 1, 2006 - PAGE 201 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	258	352

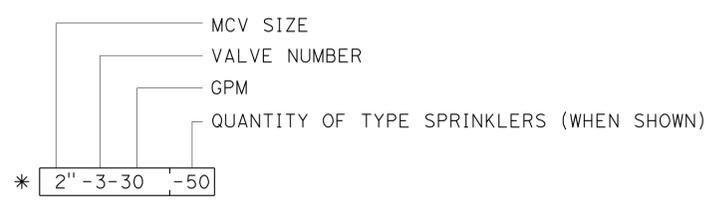
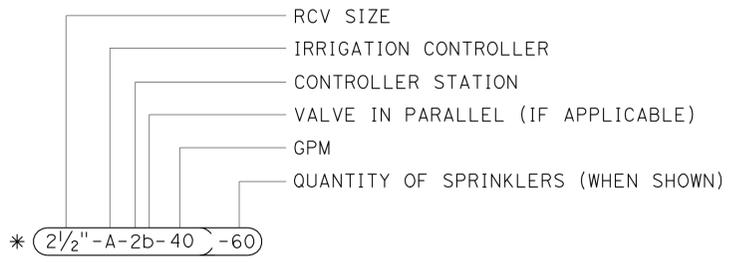
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 11-28-11

EXISTING	PROPOSED	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (BPAE)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
		FLOW SENSOR (FS)
		MASTER IRRIGATION CONTROLLER (MIC)
		AUXILIARY IRRIGATION CONTROLLER (AIC)
		IRRIGATION CONTROLLER (IC)/ IRRIGATION CONTROLLER (IC) (BATTERY) IRRIGATION CONTROLLER (IC) (SOLAR)
		IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC)
		CONTROL AND NEUTRAL CONDUCTORS (CNC)
		SPRINKLER CONTROL CONDUIT (SCC)
		IRRIGATION CROSSOVER
		EXTEND IRRIGATION CROSSOVER
		IRRIGATION SLEEVE
		DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP)
		PLASTIC PIPE (PR 200) (SUPPLY LINE) (MAIN)
		PLASTIC PIPE (PR 200) (SUPPLY LINE) (LATERAL)
		PLASTIC PIPE (IRRIGATION LINE)
		REMOTE CONTROL VALVE (RCV) REMOTE CONTROL VALVE (MASTER) (RCVM) REMOTE CONTROL VALVE (MASTER) W/FLOW METER (RCVMF)
		MANUAL CONTROL VALVE (MCV)
		VALVE ASSEMBLY UNIT (VAU)
		WYE STRAINER (WS)
		FILTER ASSEMBLY UNIT (FAU)
		GATE VALVE (GV)
		BALL VALVE (BV)

EXISTING	PROPOSED	ITEM DESCRIPTION
		QUICK COUPLING VALVE (QCV)
		CAM COUPLER ASSEMBLY (CCA)
		PRESSURE REDUCING VALVE (PRV)
		PRESSURE RELIEF VALVE (PRLV)
		FLOW CONTROL VALVE (FCV)
		COMBINATION AIR RELEASE VALVE (CARV)
		CHECK VALVE (CV)
		FLUSH VALVE (FV)
		NOZZLE LINE W/TURNING UNION
		IRRIGATION SYSTEM
		IRRIGATION SYSTEM TO BE REMOVED
		CHAIN LINK GATE
		QUICK COUPLING VALVE W/SPRINKLER PROTECTOR
		SPRINKLER W/SPRINKLER PROTECTOR
		CONNECT TO EXISTING SYSTEM
		CAP
		CAP EXISTING

VALVE CODE



* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PLANTING AND IRRIGATION SYMBOLS
NO SCALE

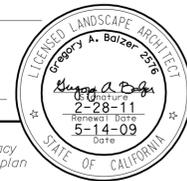
RSP H2 DATED JUNE 5, 2009 SUPERSEDES RSP H2 DATED MARCH 7, 2008 AND STANDARD PLAN H2 DATED MAY 1, 2006 - PAGE 202 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H2

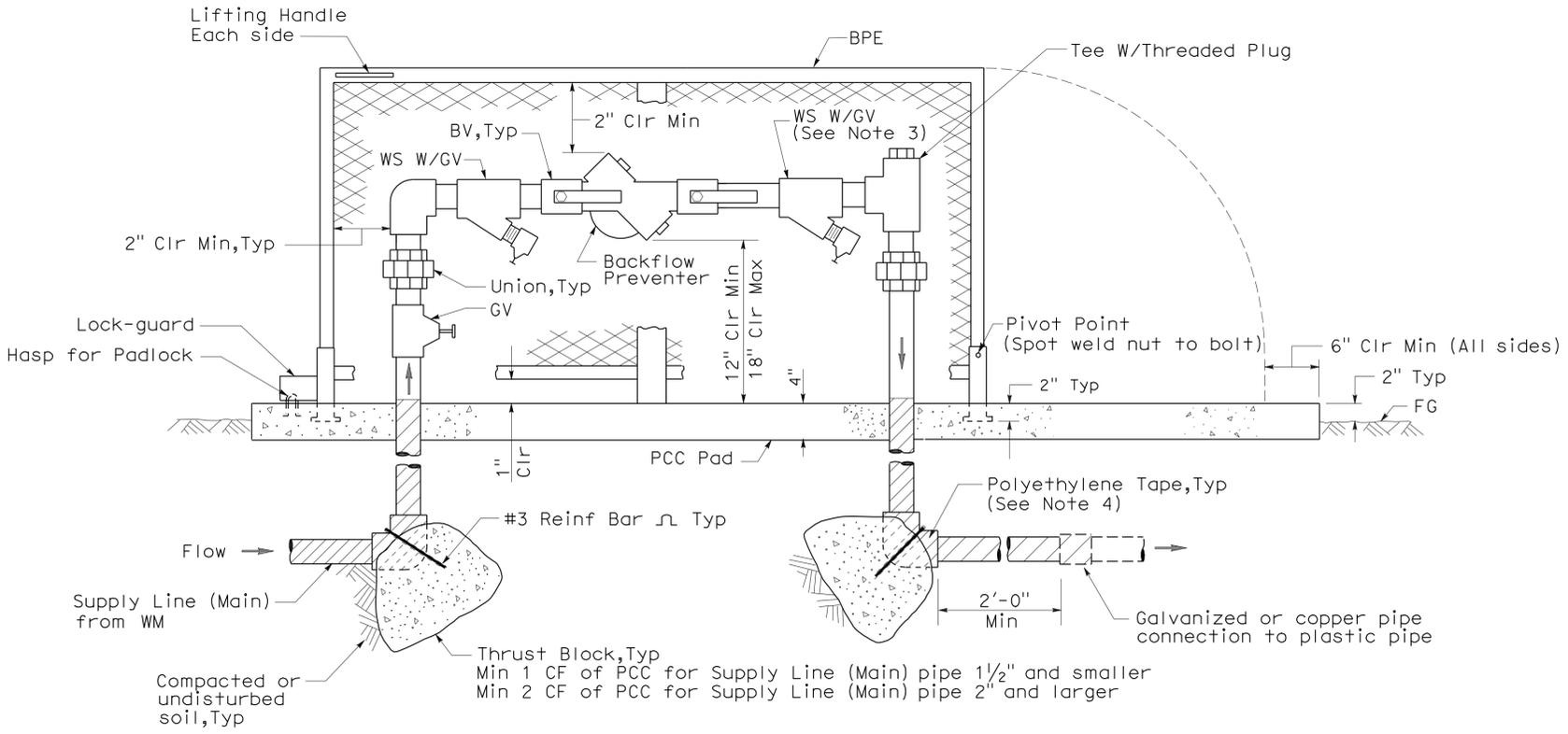
2006 REVISED STANDARD PLAN RSP H2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	259	352

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 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 11-28-11

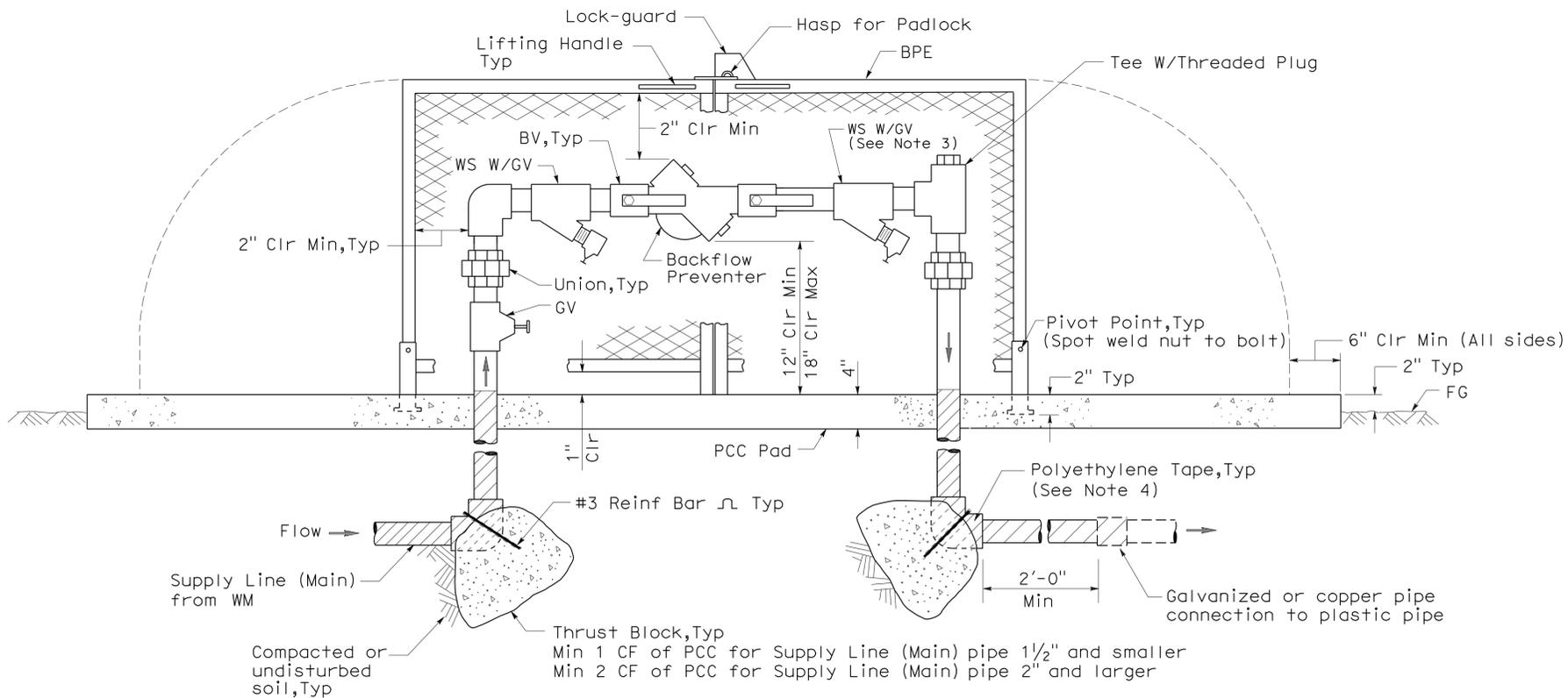


ELEVATION

BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (ONE PIECE)

NOTES:

1. Wye strainer and fittings must be the same size as the backflow preventer shown on the plans.
2. Backflow preventer assembly manifold pipe must be the same pipe as the supply line (main) pipe to be installed from the water meter to the backflow preventer assembly.
3. Wye strainer location shown downstream of the backflow preventer is for District 11 projects only.
4. All metal in contact with soil and Portland Cement Concrete must be polyethylene wrapped using 2" wide plastic backed adhesive tape 20 mil thick with 1/2" overlap.



ELEVATION

BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (TWO PIECE)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PLANTING AND IRRIGATION
 DETAILS**

NO SCALE

RSP H8 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H8
 DATED MAY 1, 2006 - PAGE 208 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H8

2006 REVISED STANDARD PLAN RSP H8

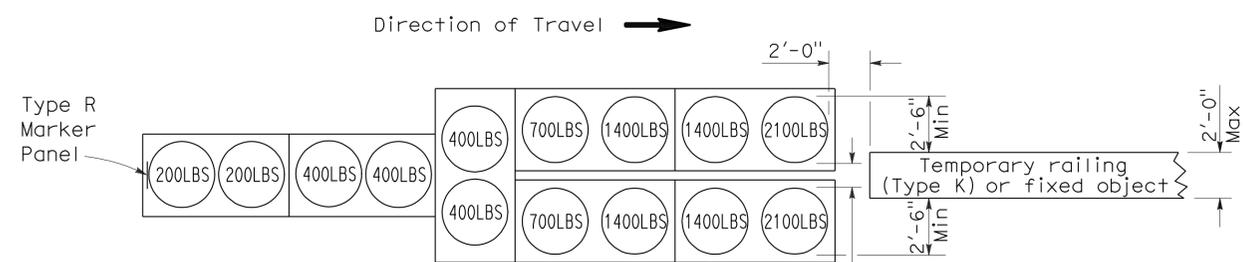
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	260	352

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

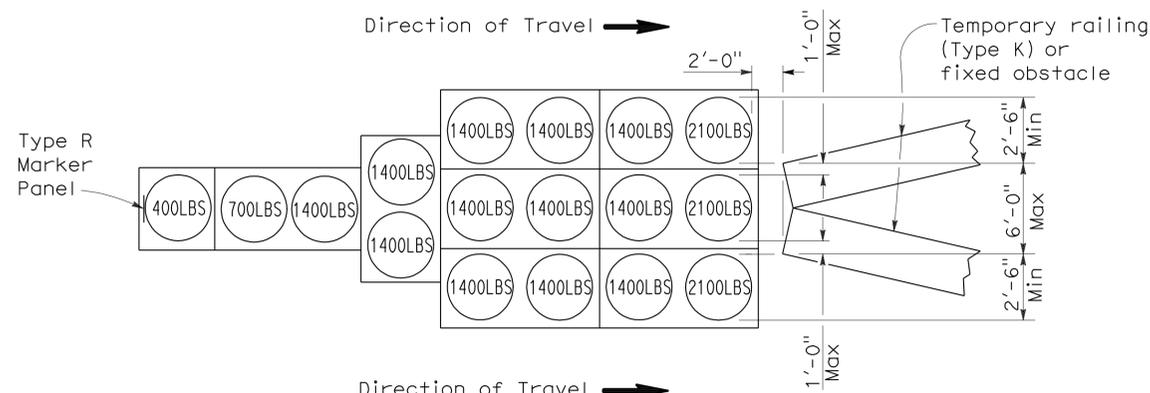
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 11-28-11



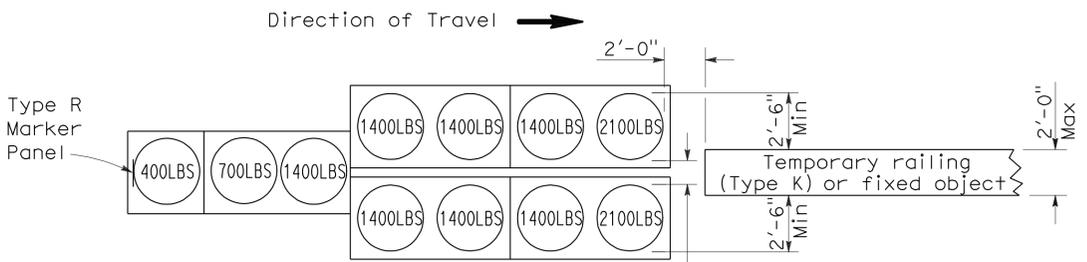
ARRAY 'TU14'

Approach speed 45 mph or more



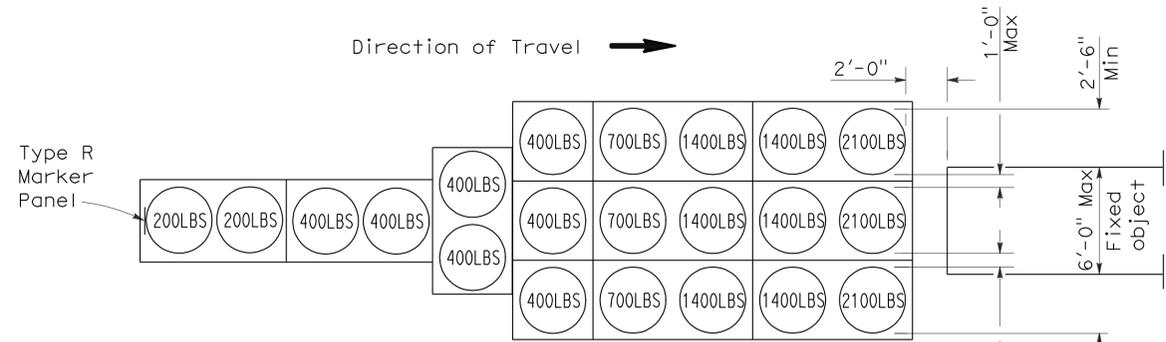
ARRAY 'TU17'

Approach speed less than 45 mph



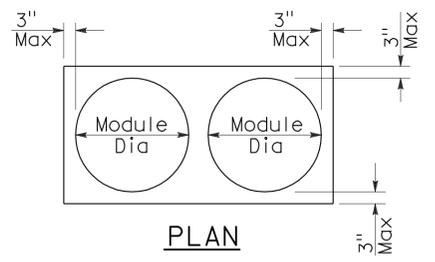
ARRAY 'TU11'

Approach speed less than 45 mph

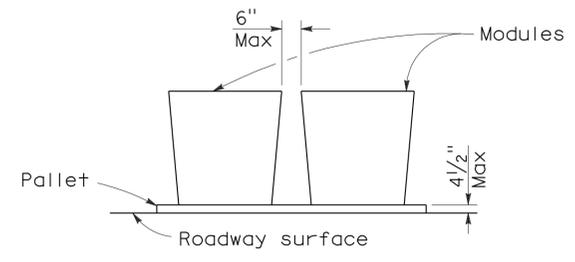


ARRAY 'TU21'

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

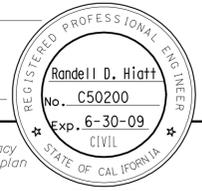
2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	261	352

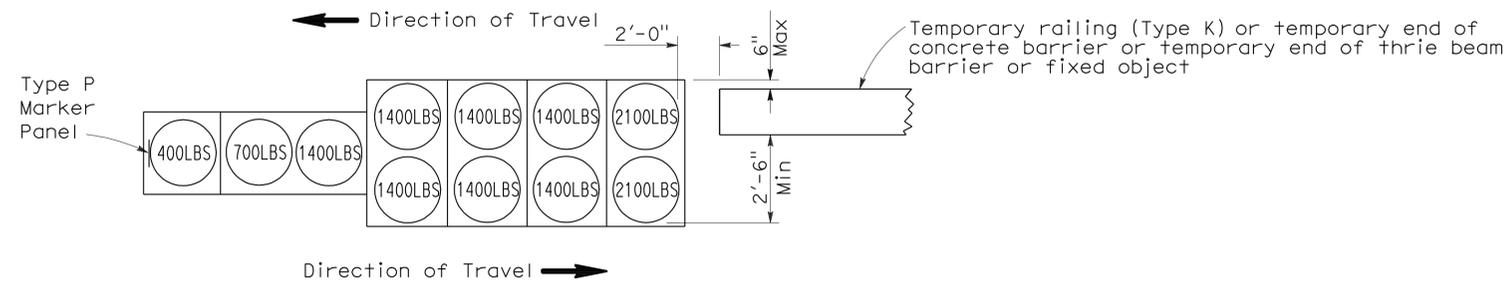
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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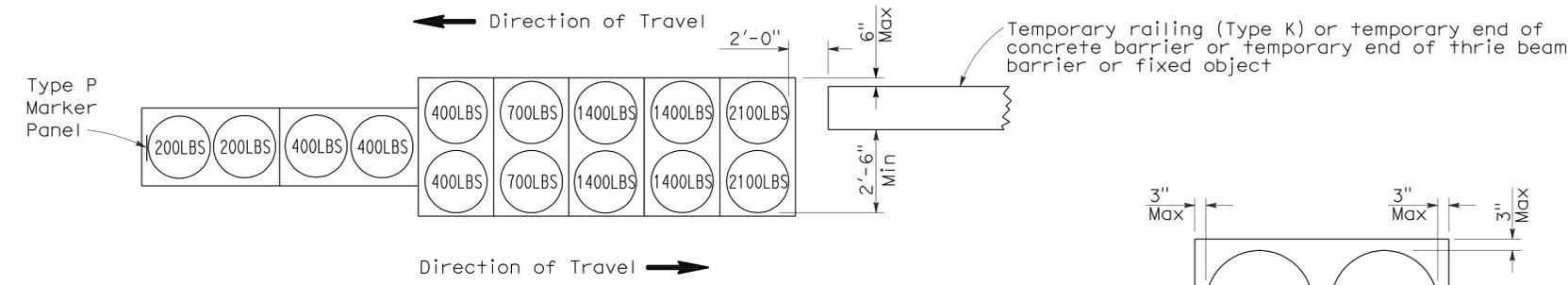


To accompany plans dated 11-28-11



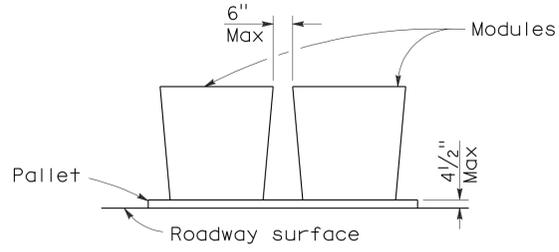
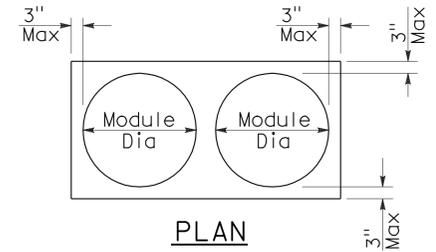
ARRAY 'TB11'

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

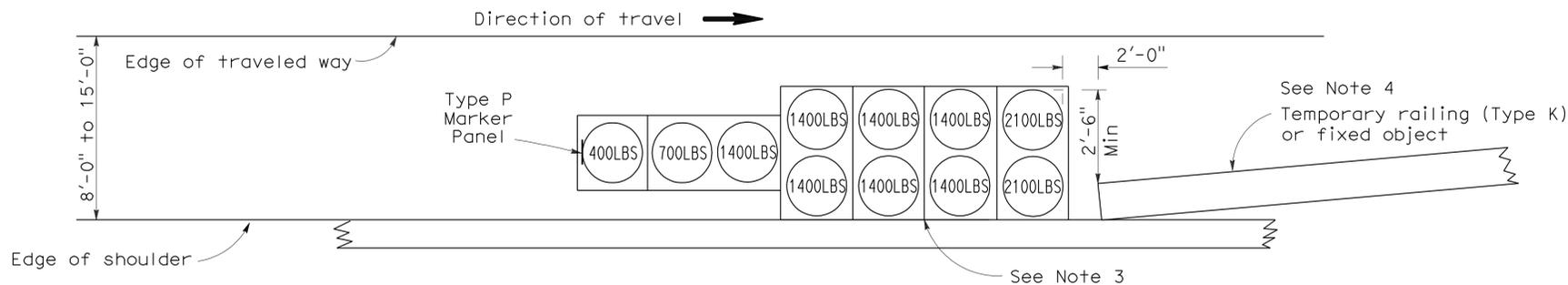
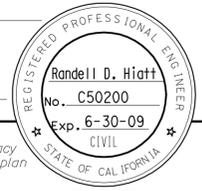
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	262	352

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

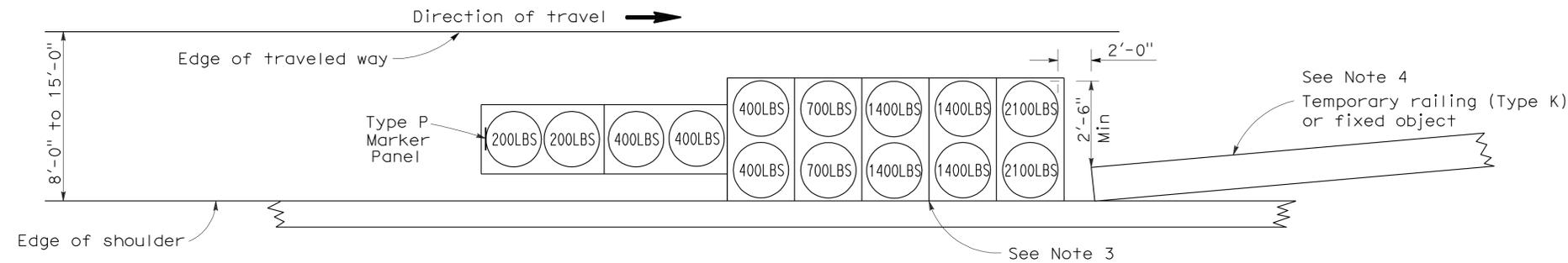
June 6, 2008
PLANS APPROVAL DATE

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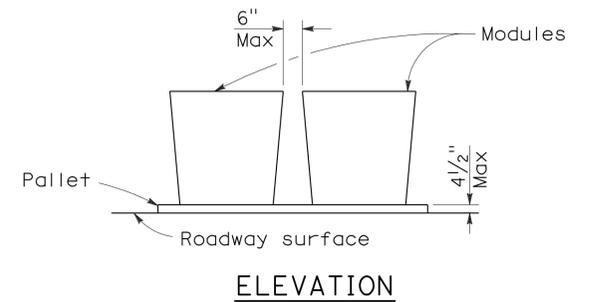
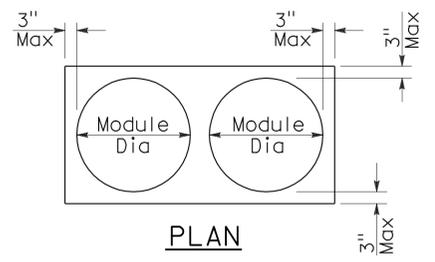
To accompany plans dated 11-28-11



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



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



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

- (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

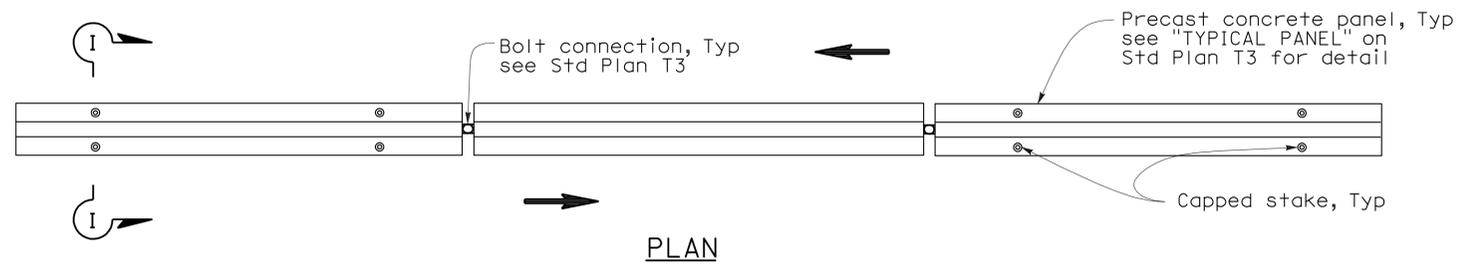
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	263	352

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

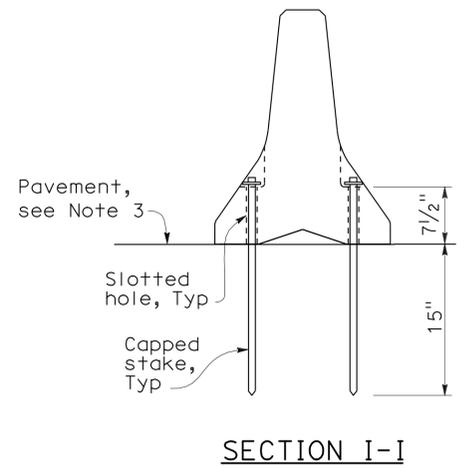
May 20, 2011
PLANS APPROVAL DATE

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To accompany plans dated 11-28-11

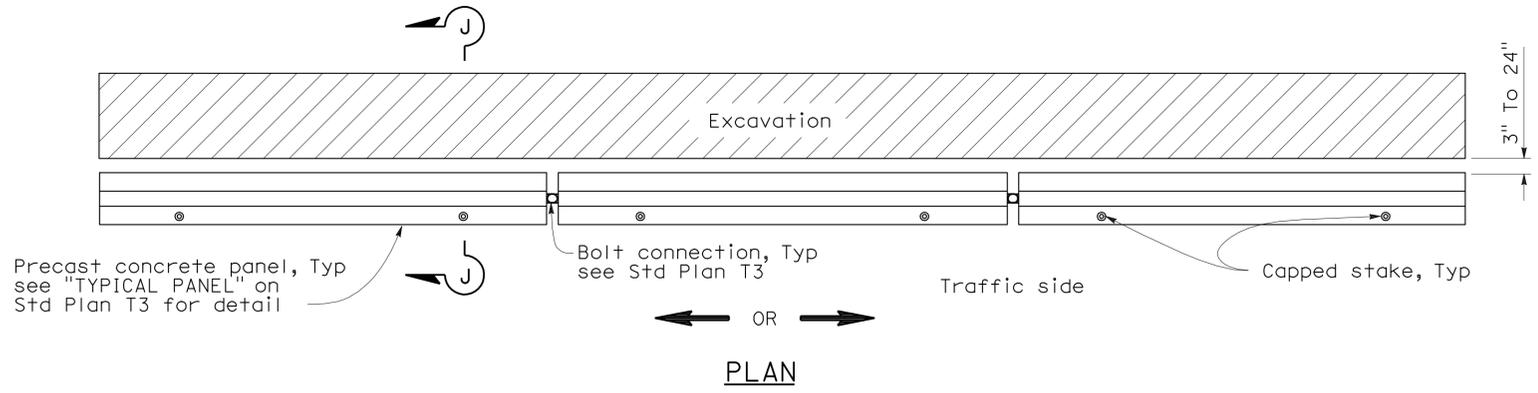


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

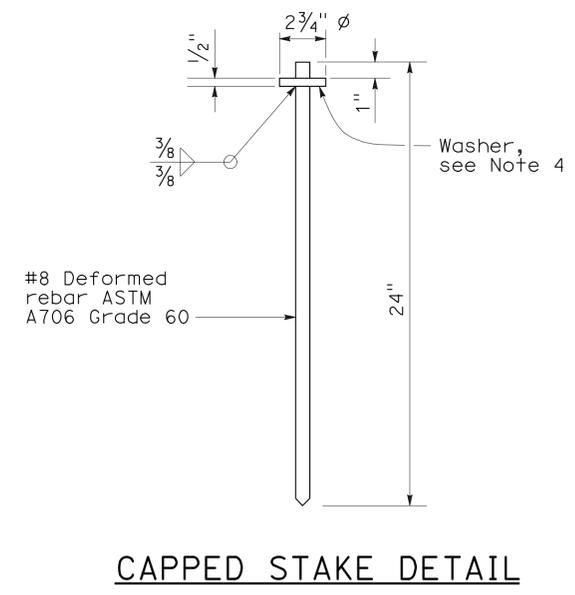
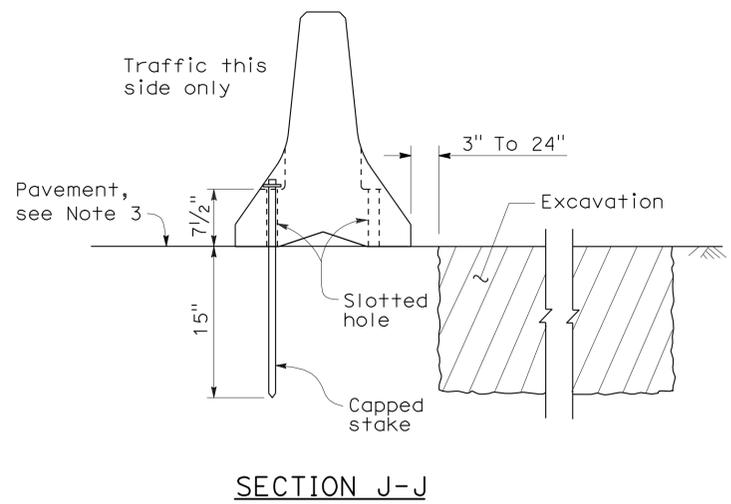


NOTES:

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



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY RAILING
(TYPE K)**

NO SCALE

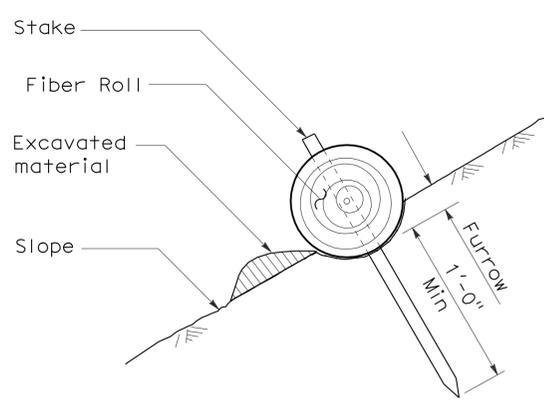
NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T3A

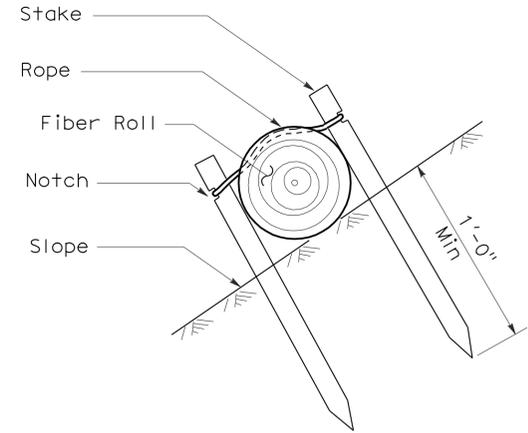
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	265	352

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
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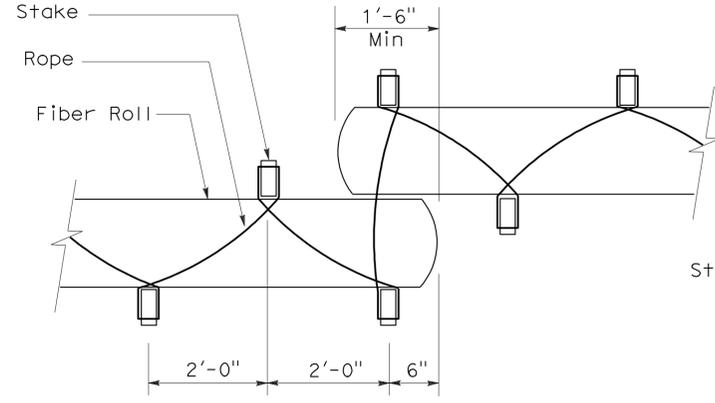
To accompany plans dated 11-28-11



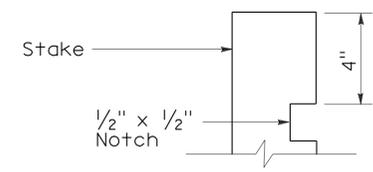
SECTION
TEMPORARY FIBER ROLL
(TYPE 1)



SECTION
TEMPORARY FIBER ROLL
(TYPE 2)

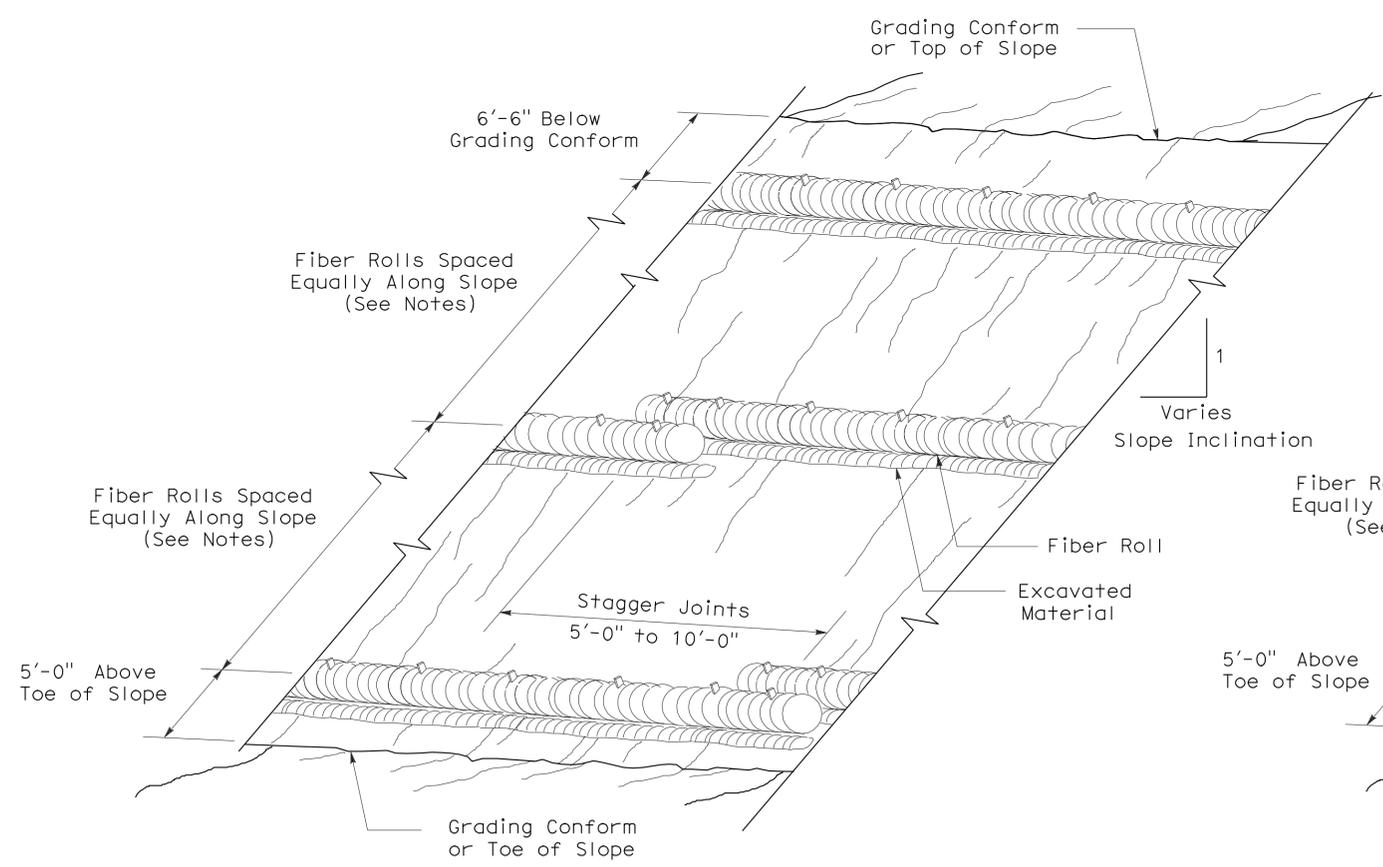


PLAN
TEMPORARY FIBER ROLL
(TYPE 2)

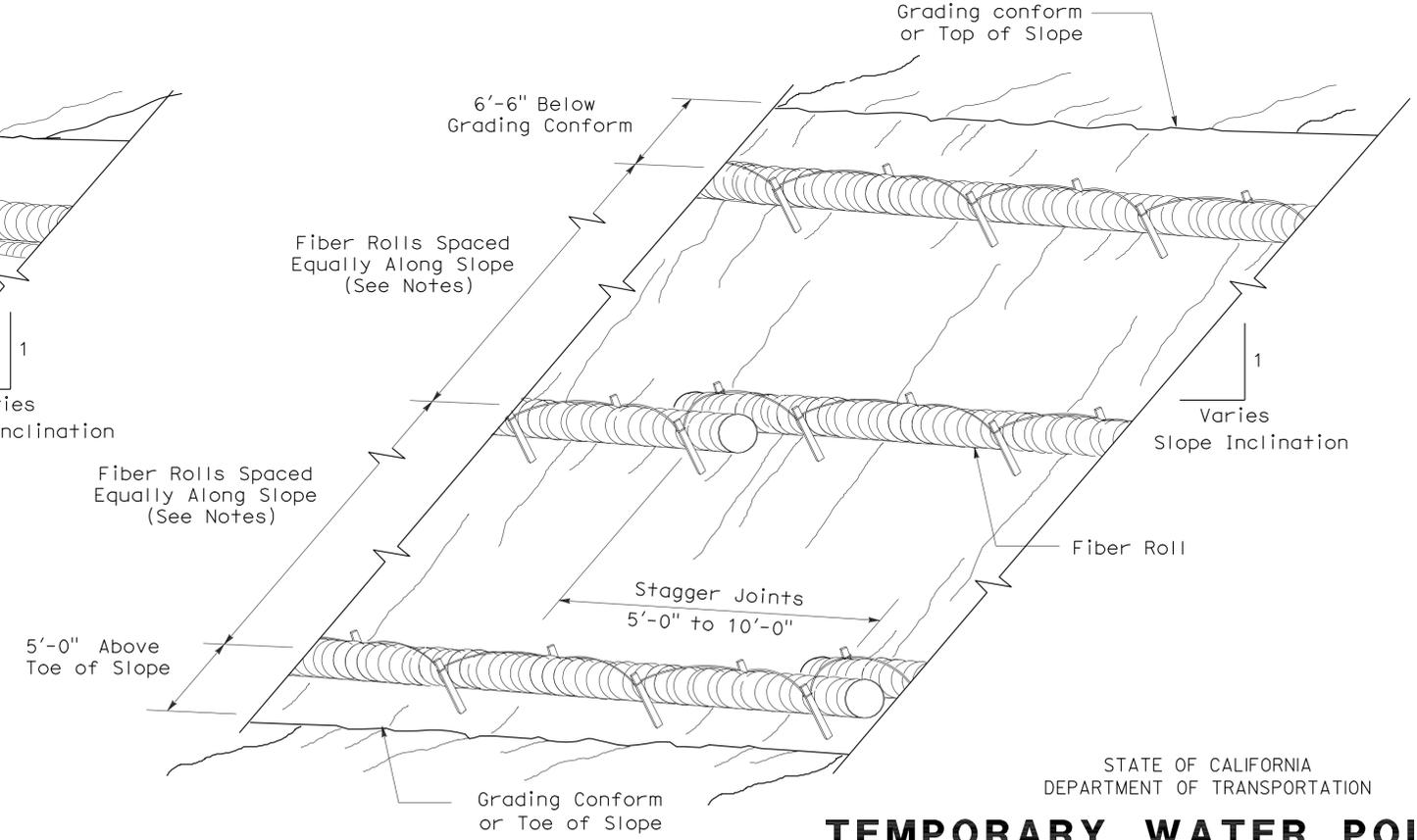


ELEVATION
STAKE NOTCH DETAIL

- NOTES:**
1. Temporary fiber roll spacing varies depending upon slope inclination.
 2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS
(TEMPORARY FIBER ROLL)

NO SCALE

RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56
 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T56

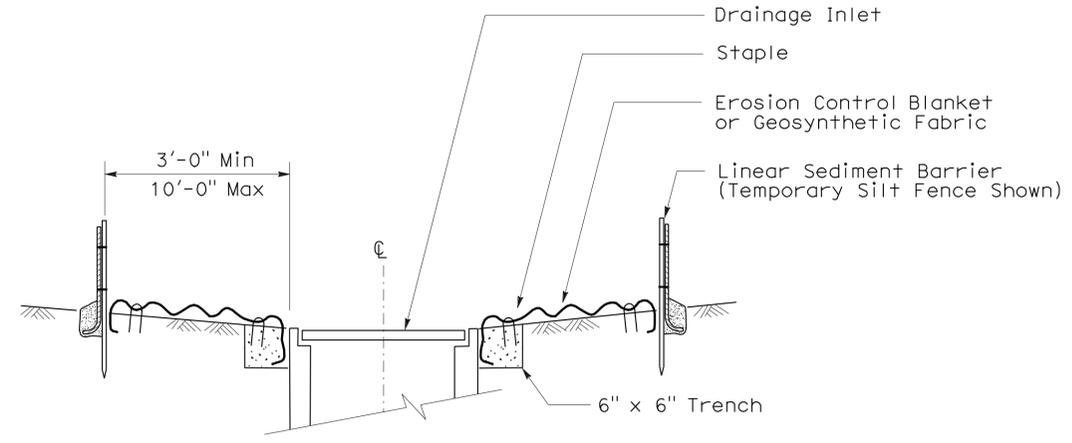
2006 REVISED STANDARD PLAN RSP T56

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	266	352

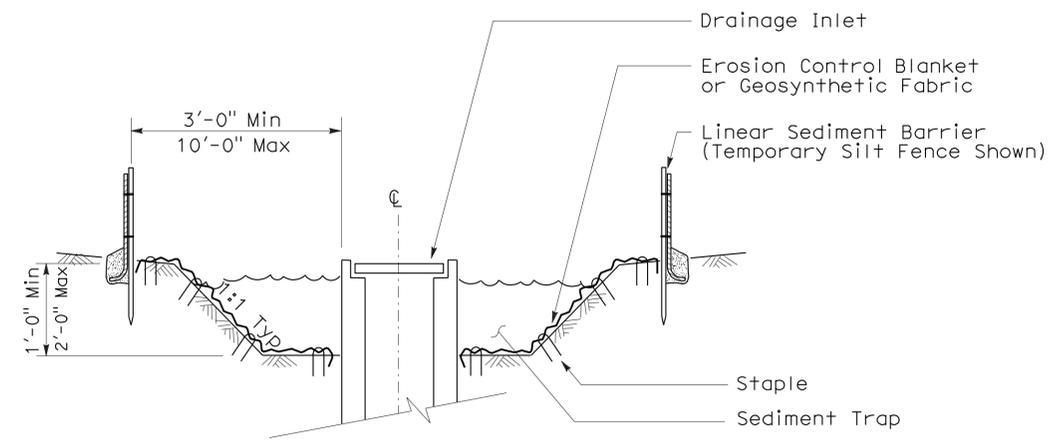
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS Approval DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 11-28-11

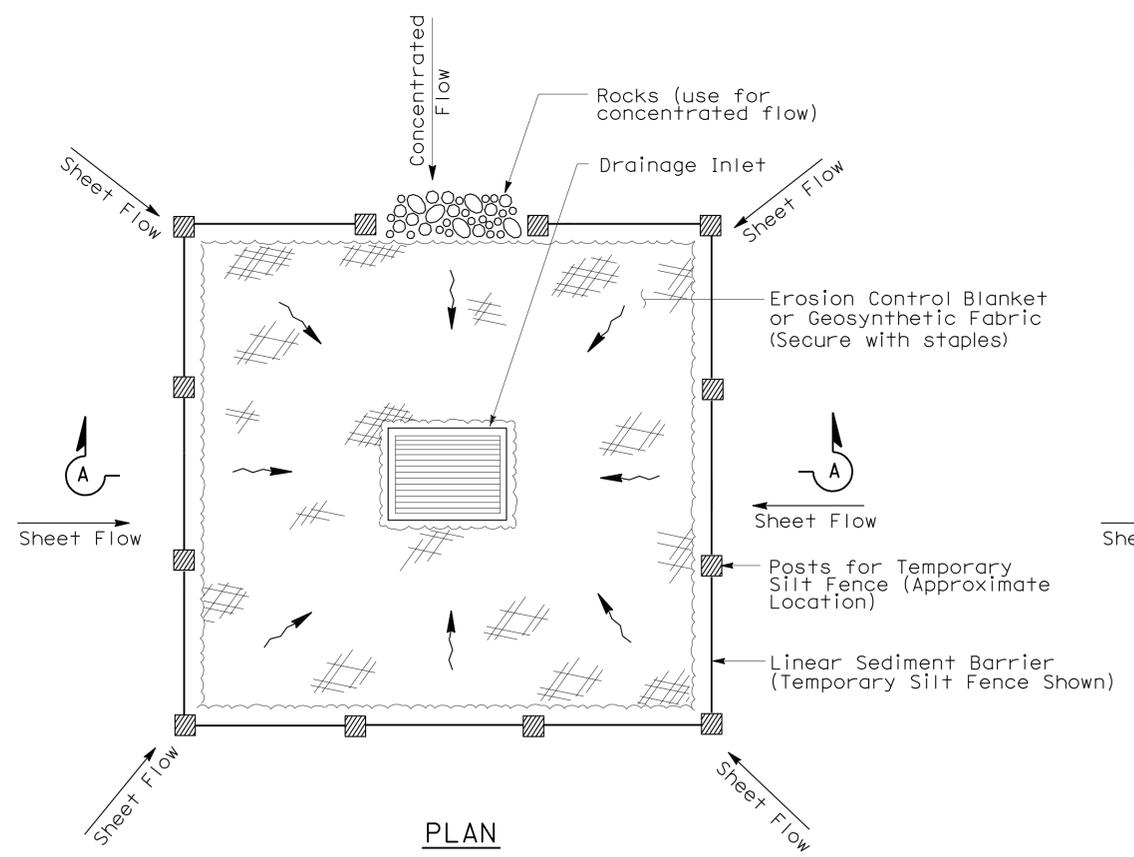
- NOTES:**
- See Standard Plan T51 for Temporary Silt Fence.
 - Dimensions may vary to fit field conditions.



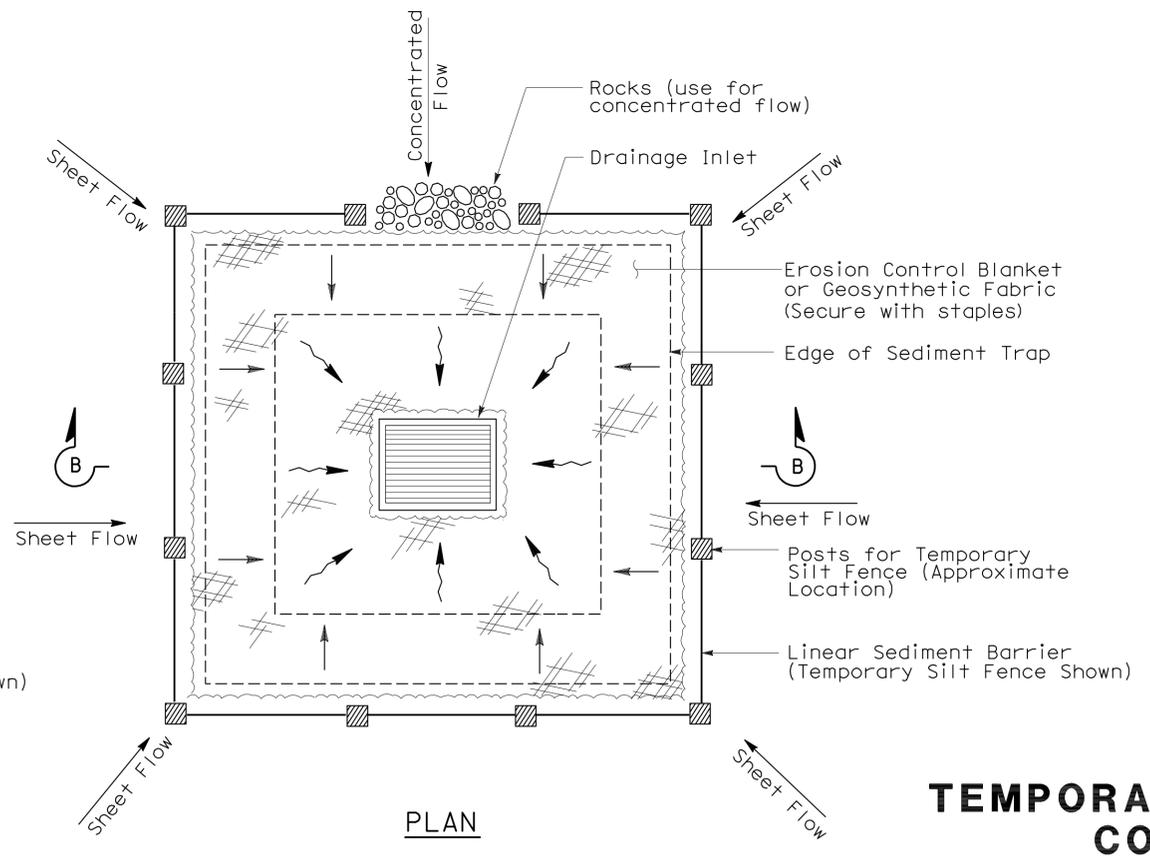
SECTION A-A



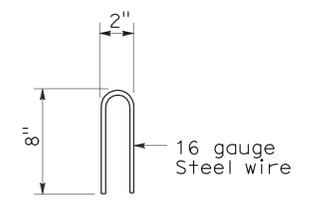
SECTION B-B



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)



STAPLE DETAIL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)
 NO SCALE

NSP T61 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T61

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	267	352

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 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.

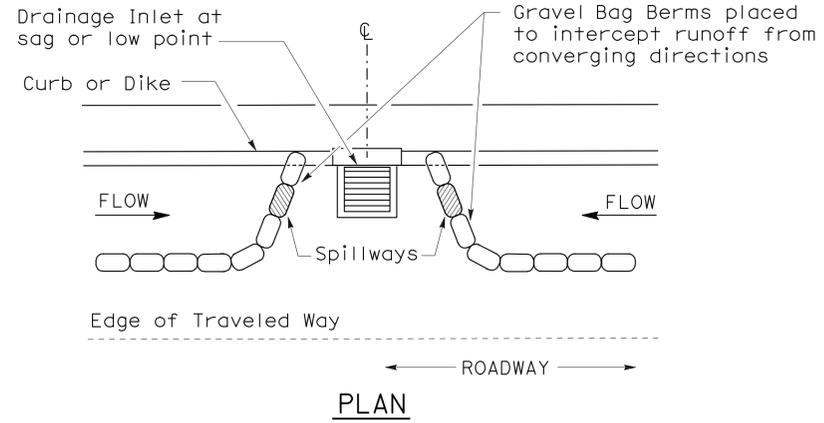
To accompany plans dated 11-28-11

2006 NEW STANDARD PLAN NSP T62

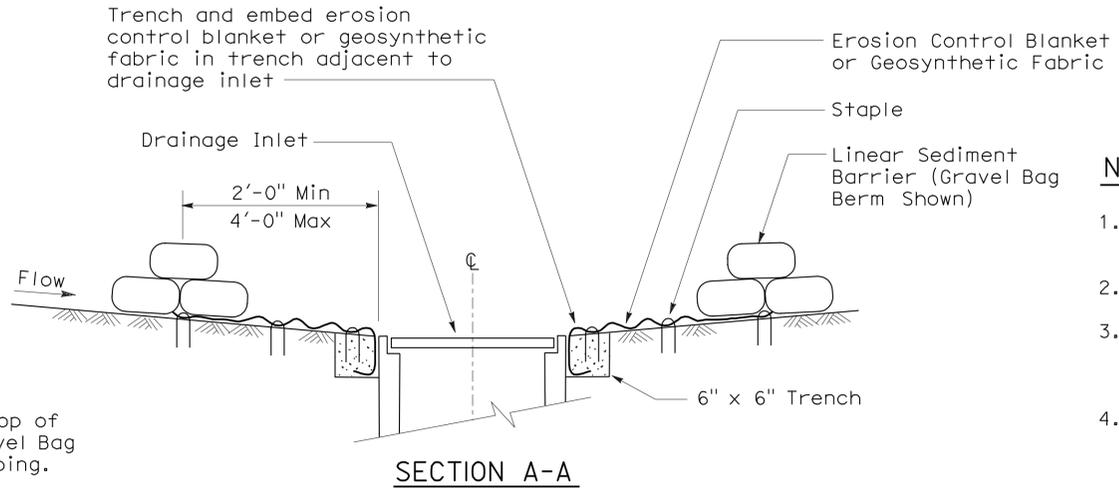
GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent



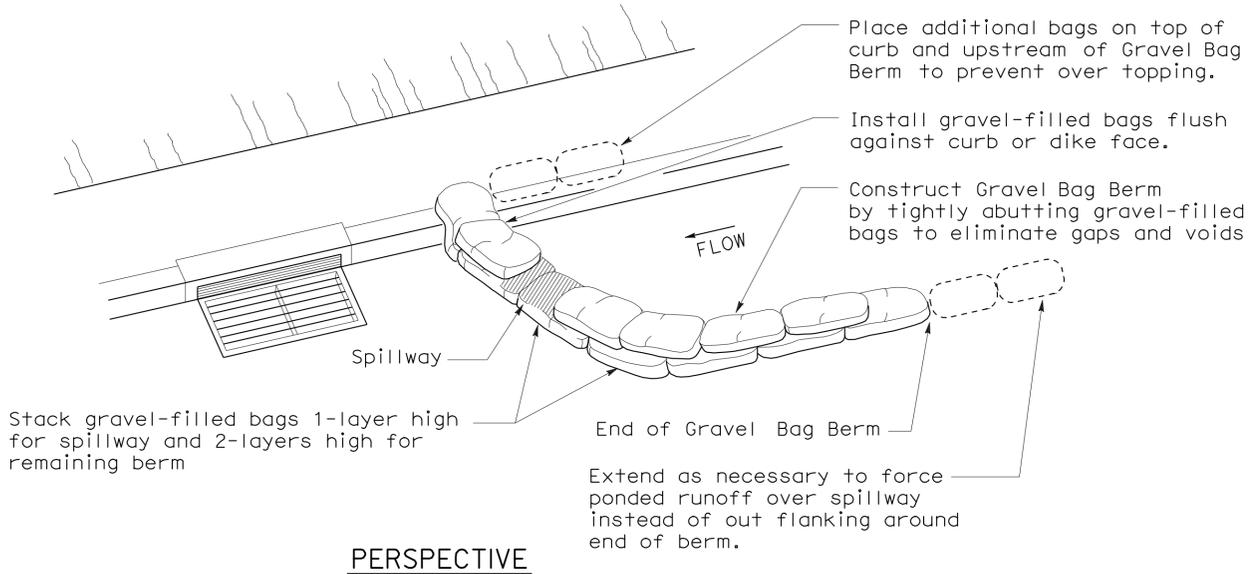
PLAN
CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)



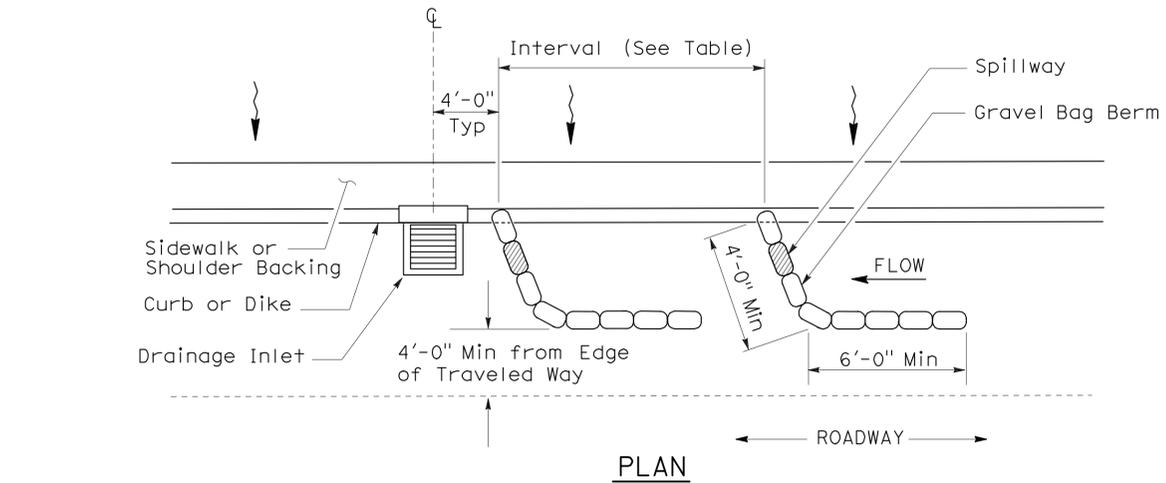
SECTION A-A

NOTES:

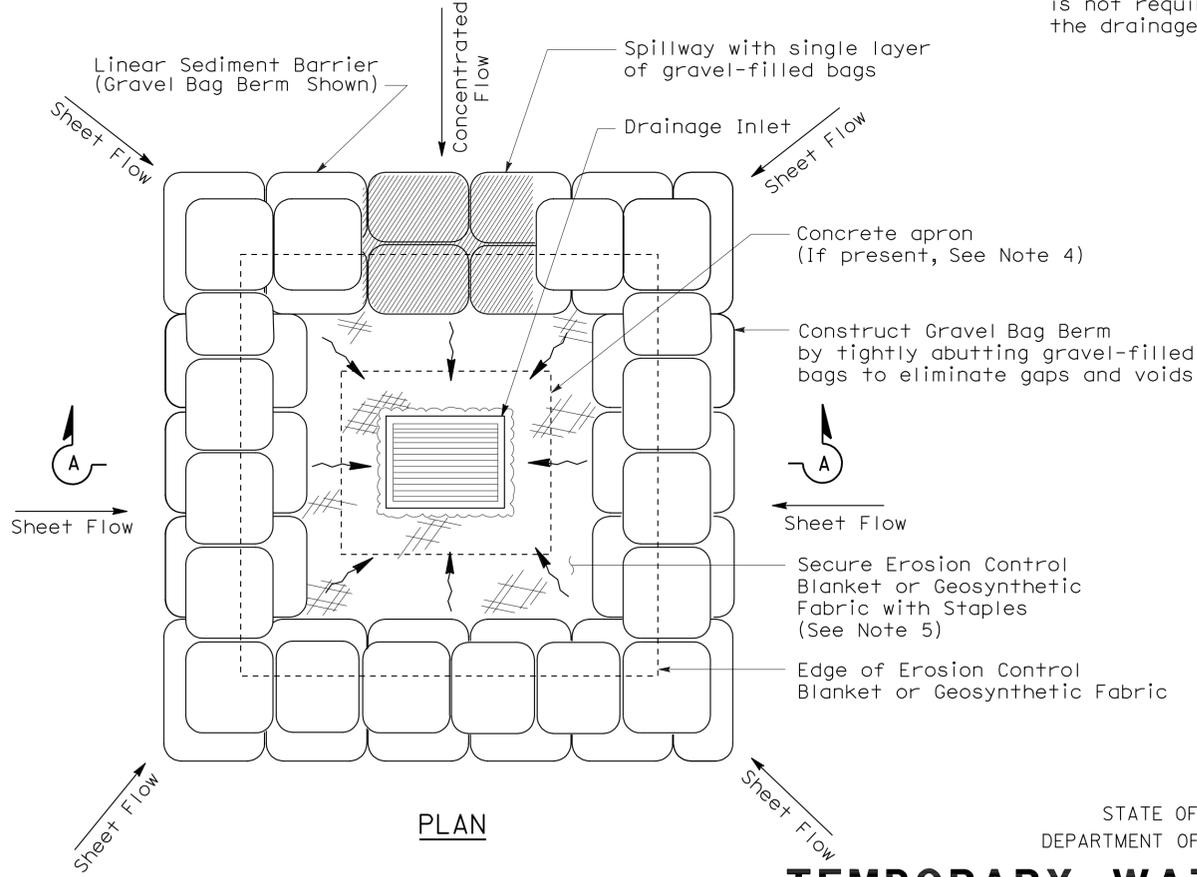
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



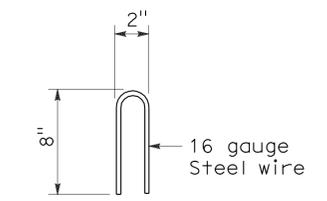
PERSPECTIVE



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE
NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

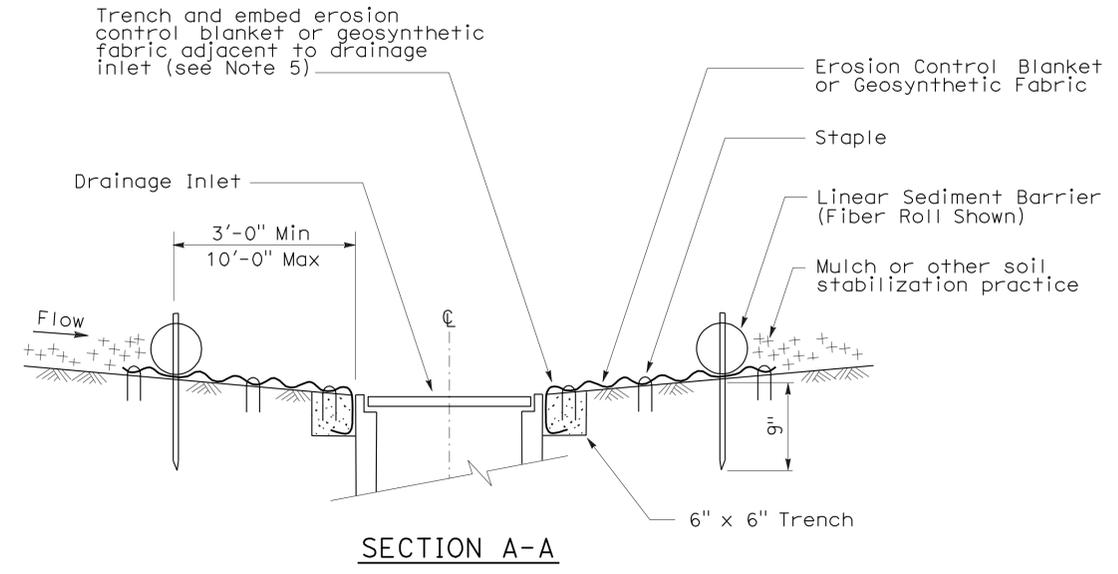
FLEXIBLE SEDIMENT BARRIER SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50'	35'	30'	25'	20'
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6'	6'	6'	6'	6'

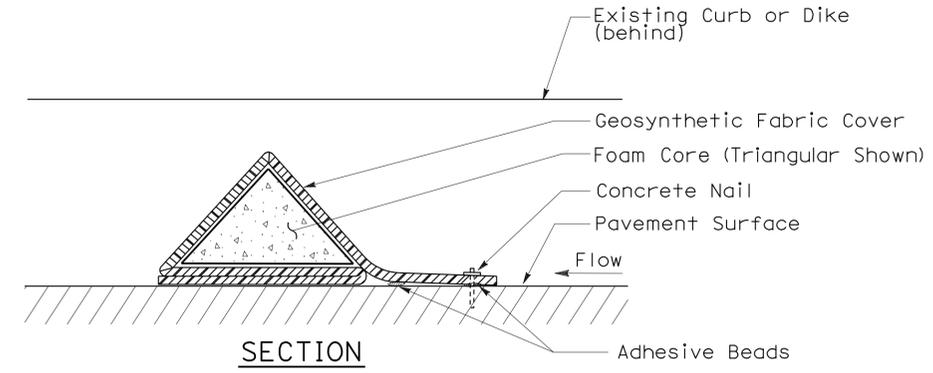
To accompany plans dated 11-28-11

NOTES:

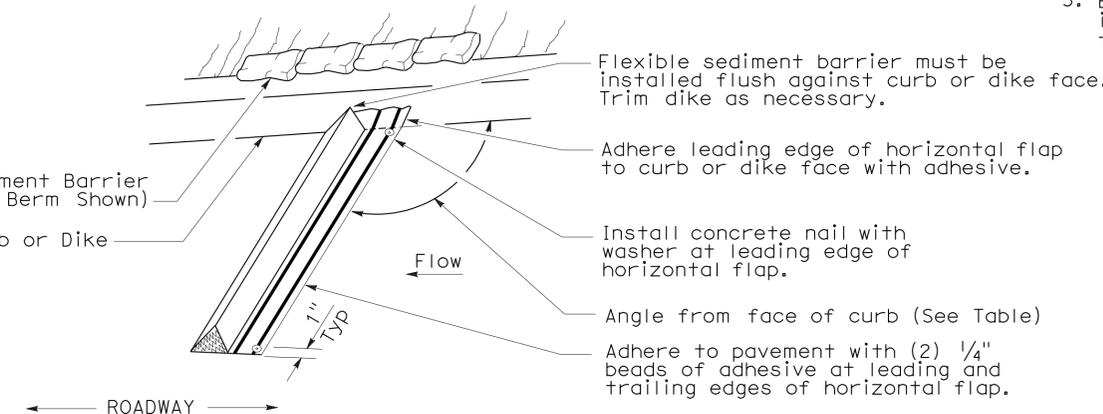
- See Standard Plan T51 for Temporary Silt Fence.
- Dimensions may vary to fit field conditions.
- Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
- Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
- Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.



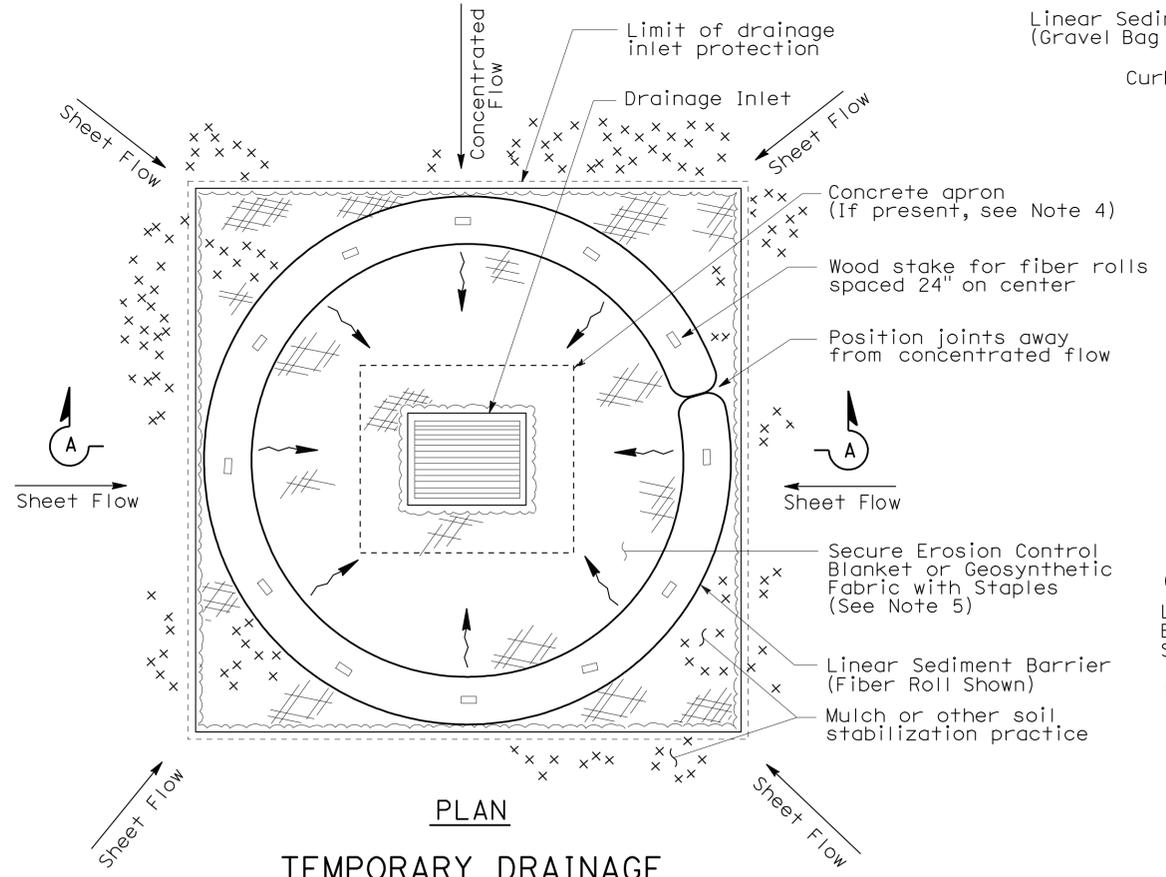
SECTION A-A



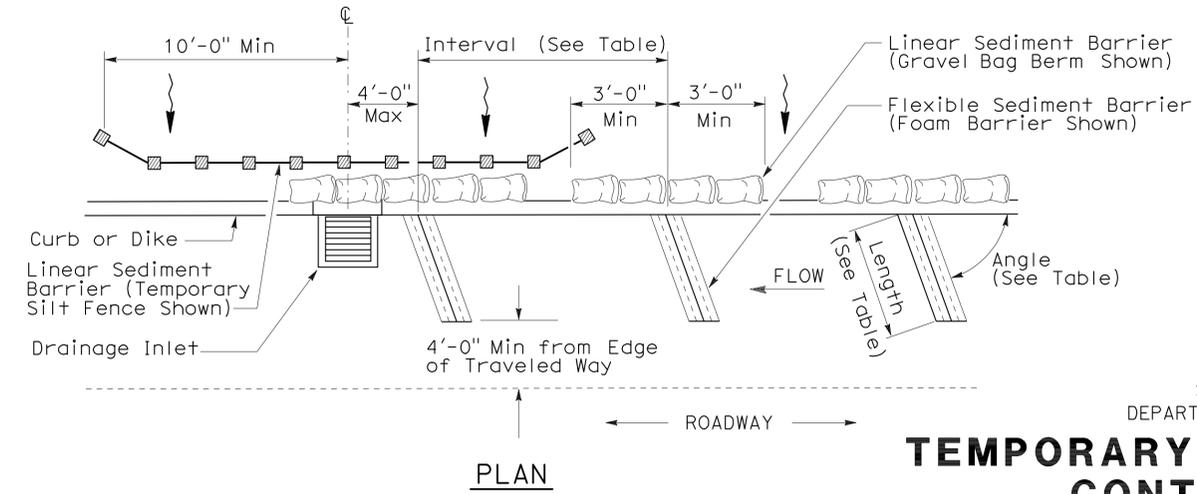
FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)



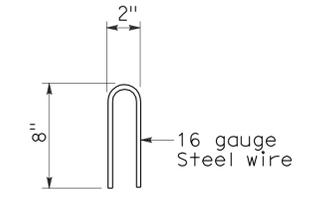
PERSPECTIVE



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4B) FLEXIBLE SEDIMENT BARRIER



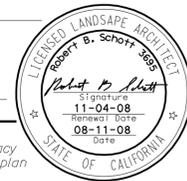
STAPLE DETAIL

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

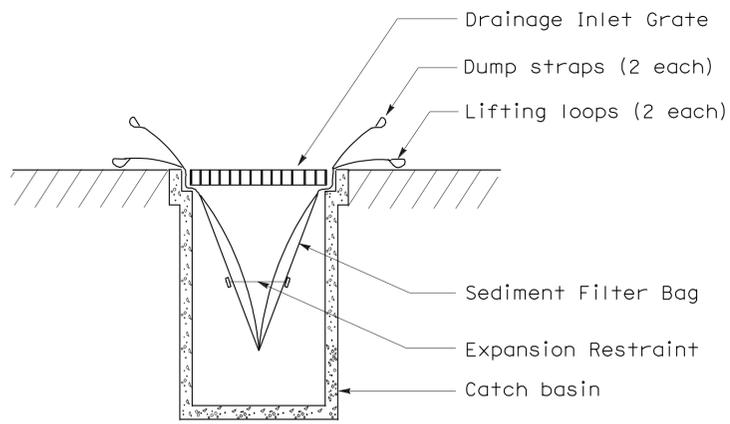
NO SCALE
 NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	269	352

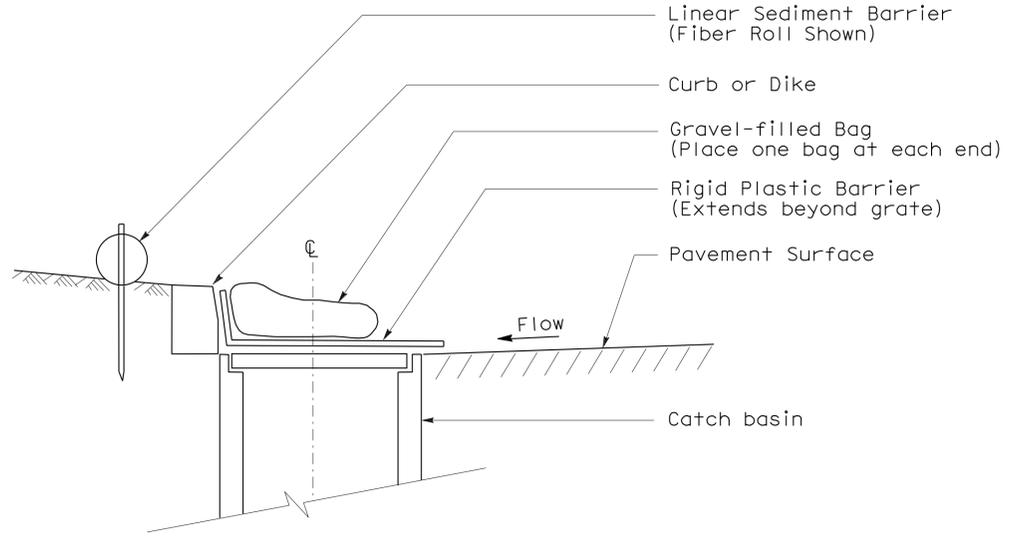
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



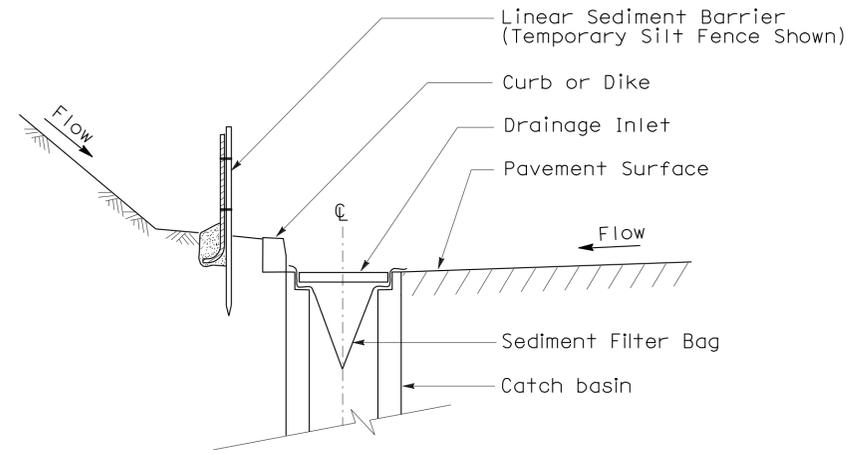
To accompany plans dated 11-28-11



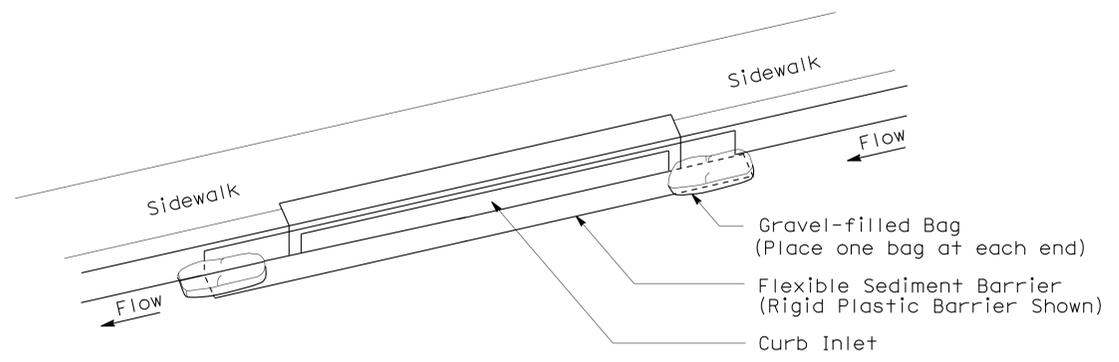
SECTION B-B
SEDIMENT FILTER BAG DETAIL



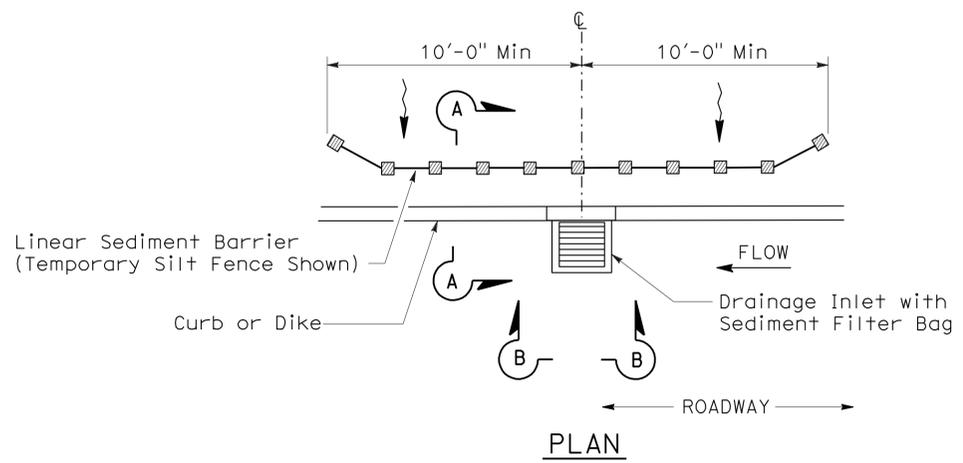
SECTION
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



SECTION A-A



PERSPECTIVE
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6B)
(CURB INLET WITHOUT GRATE)



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

NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

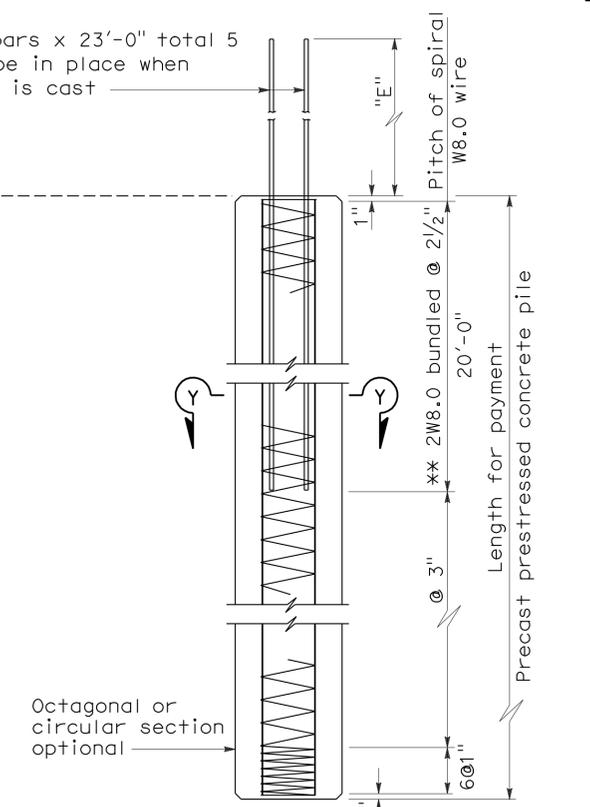
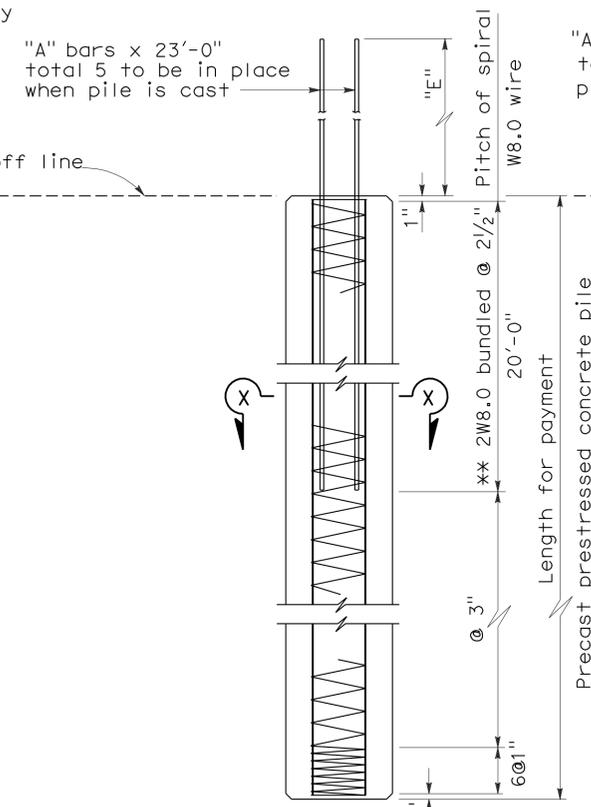
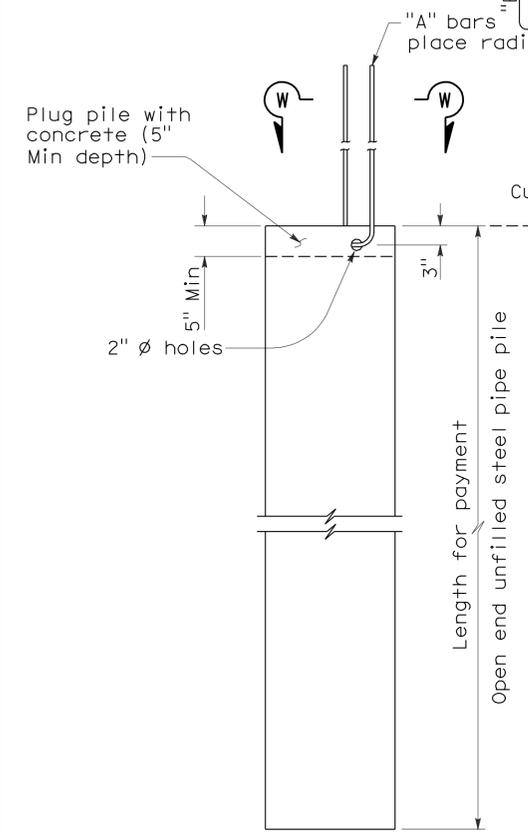
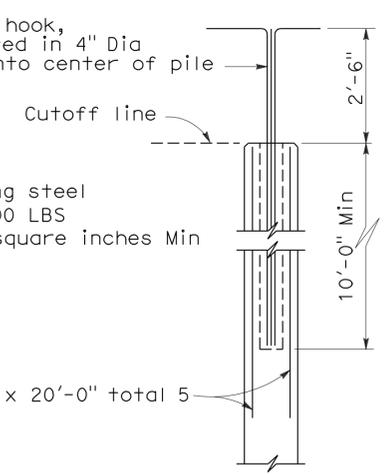
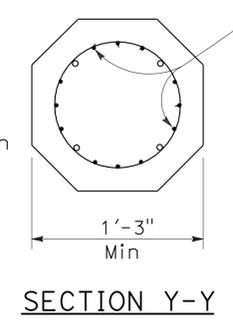
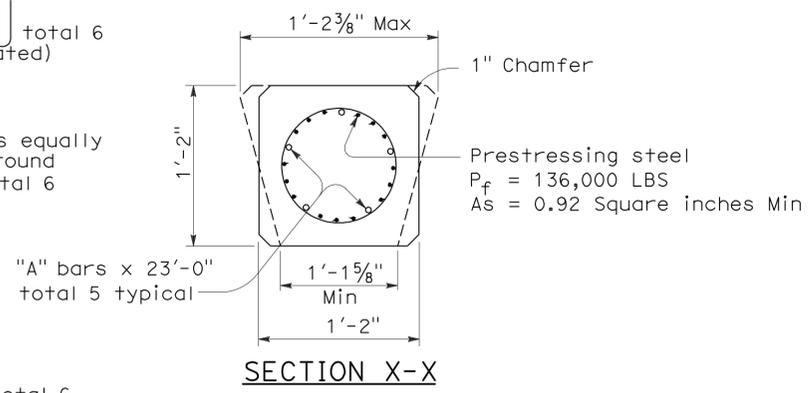
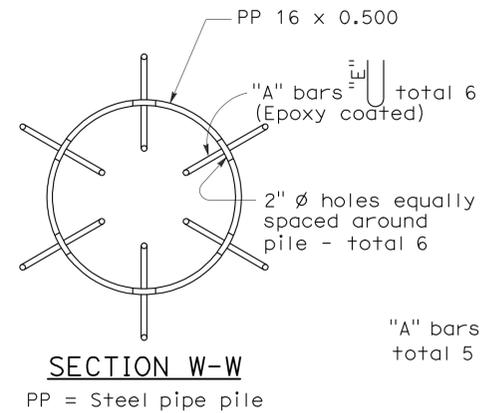
NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T64

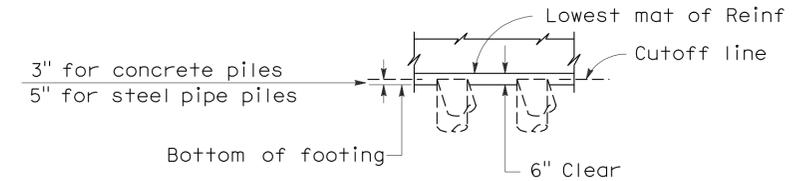
2006 NEW STANDARD PLAN NSP T64

2006 REVISED STANDARD PLAN RSP B2-8



	Nominal Resistance (Tension) *	
	Not Required	Required
"A" bars	#6	#8
"E" Dimension	2'-0"	2'-10"

* See Pile Data Table in the Project Plans for Nominal Resistance (Tension) Requirements



DESIGN NOTES:

DESIGN CAPACITY :

- Compression = 200 kip (Service state)
- = 400 kip (Nominal axial strength)
- Tension = 80 kip (Service state)
- = 200 kip (Nominal axial strength)

REINFORCED CONCRETE

$f'_c = 4,000$ psi
 $f_y = 60,000$ psi

PRECAST PRESTRESSED PILES

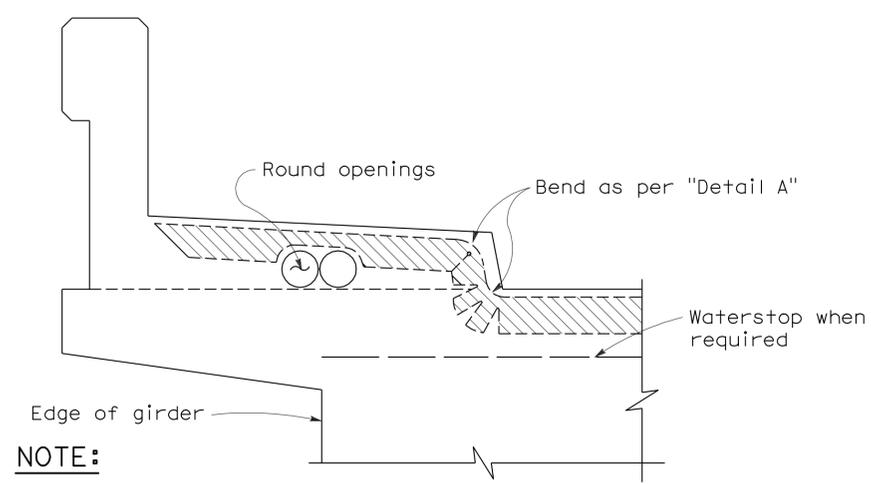
P_f = Prestress Force (After losses)
Concrete Strength f'_c @ 28 days = 7,000 psi
 f'_c @ transfer = 4,000 psi

STEEL PIPE PILE

F_y (minimum yield strength) = 45,000 psi
 F_u (minimum tensile strength) = 66,000 psi

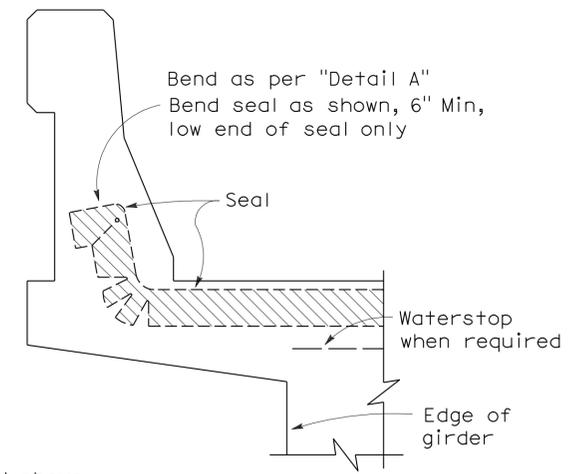
NOTES:

1. Pile reinforcement extending into footing shall be hooked as required to provide clearance to top of footing.
2. Lapped splices in spiral pile reinforcement shall be lapped 80 wire diameters minimum. Spiral pile reinforcement at splices and at ends shall be terminated by a 135 degree hook with 6 inch tail hooked around a longitudinal bar or strand.
3. At the Contractor's option, alternative steel pipe with at least the diameter and wall thickness shown on these plans may be used. The diameter shall not exceed 1'-6 inch.
4. Alternative "W" piles shall not be used for corrosive environments.
5. Maximum cut-off length at the top of the Alternative "X" and Alternative "Y" piles is 10'-0 inch.

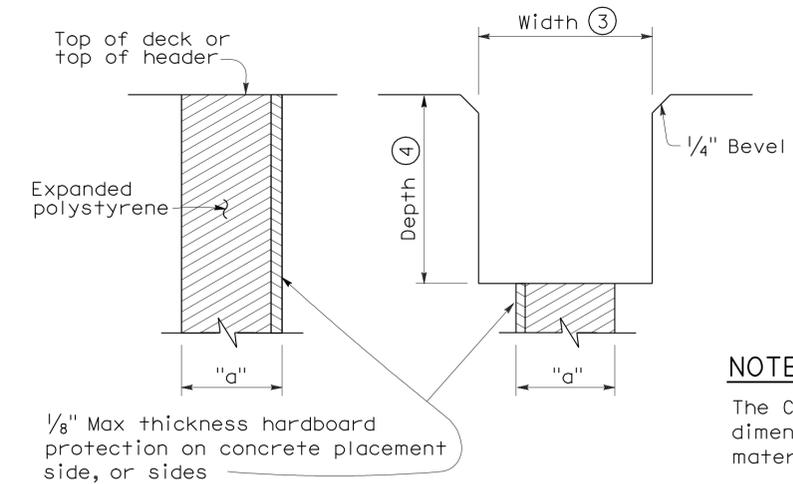


NOTE:
Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



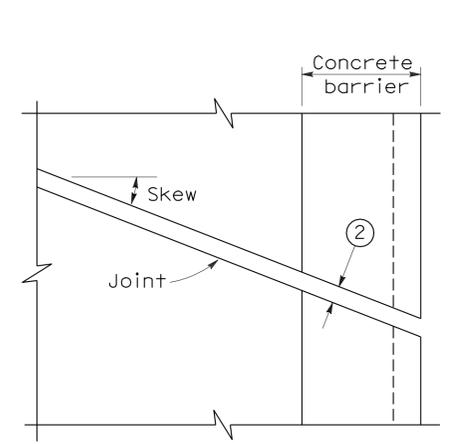
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

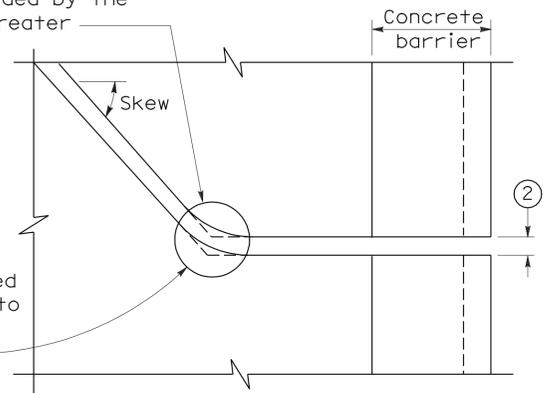
NOTE:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



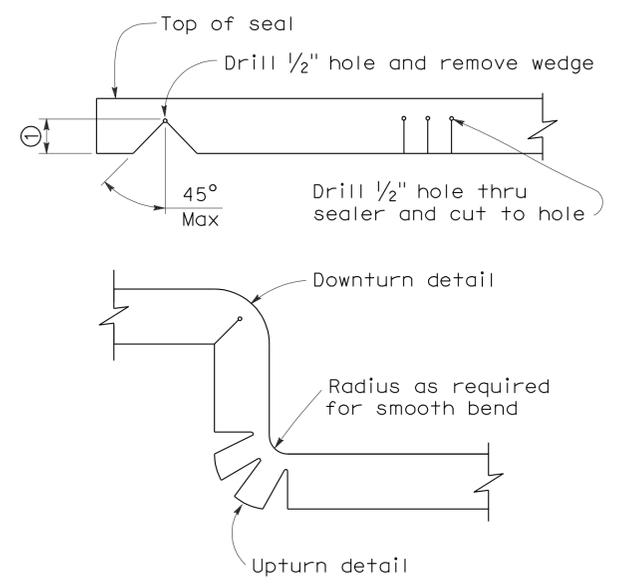
PLAN OF JOINT (SKEW ≤ 20°)

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.



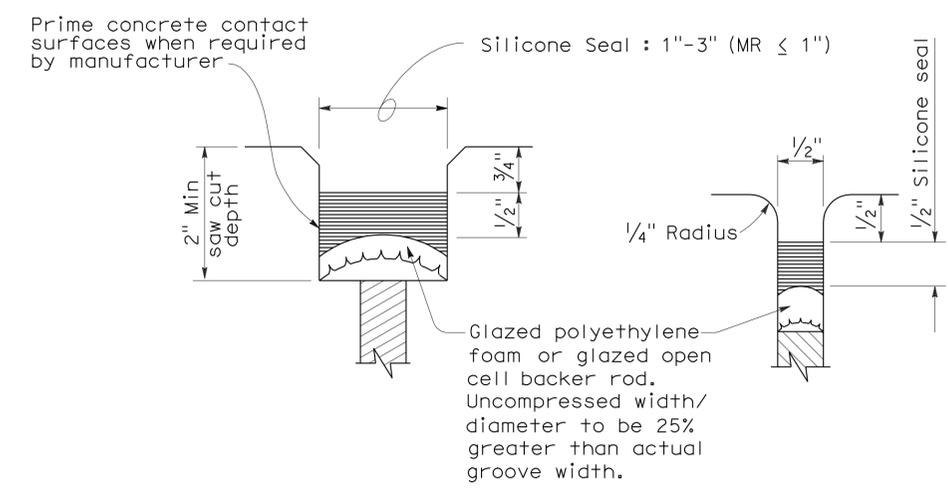
DETAIL A

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"

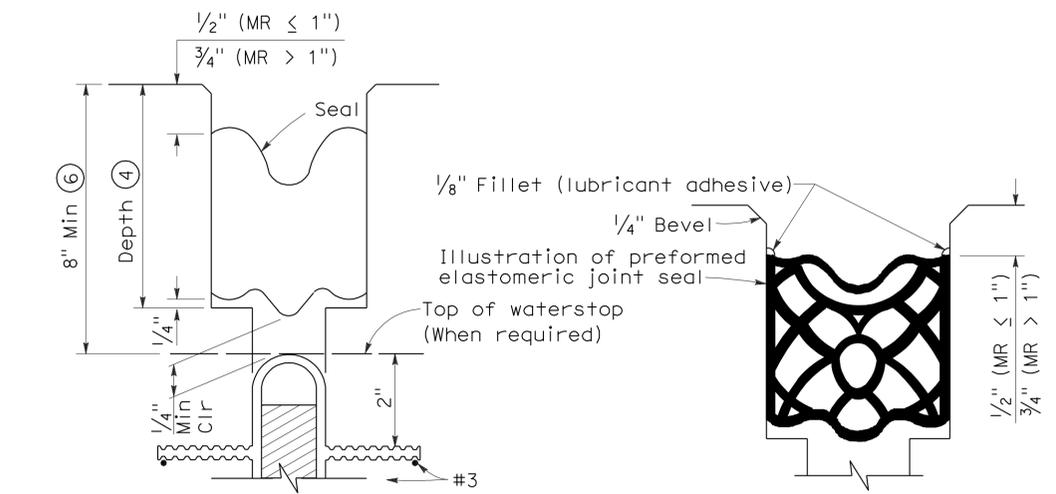


TYPE A SEAL

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"

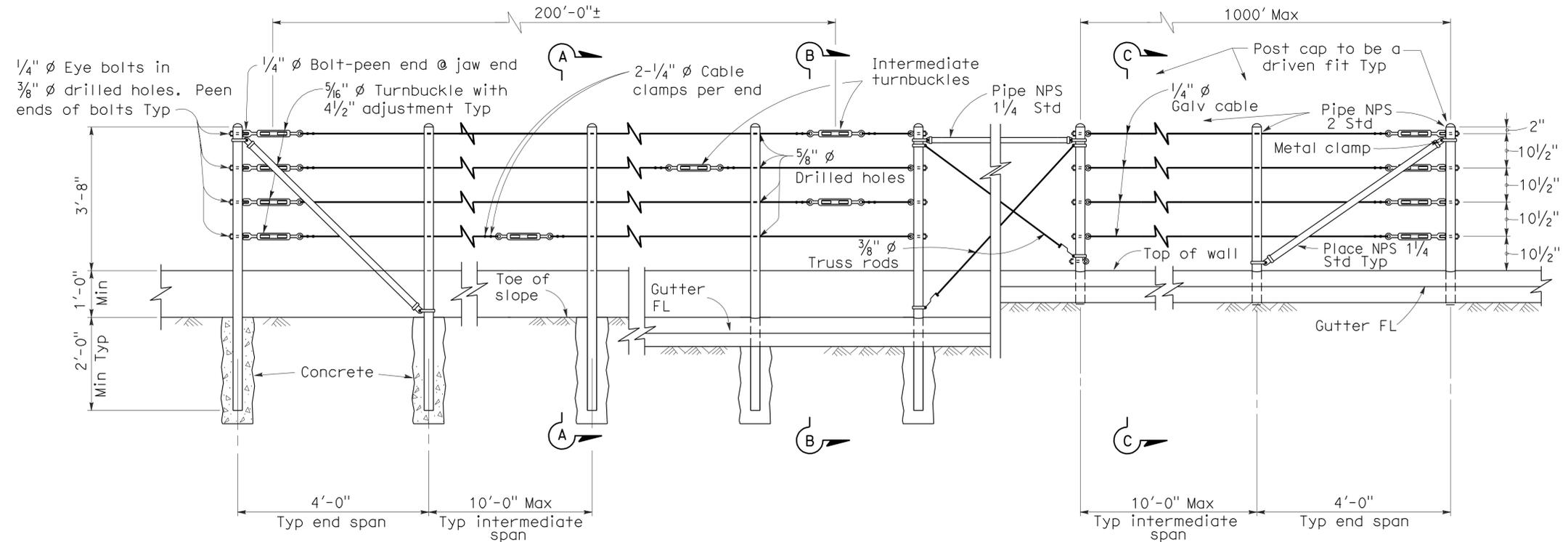
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")
NO SCALE

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.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	272	352

REGISTERED CIVIL ENGINEER		
October 21, 2011		
PLANS APPROVAL DATE		

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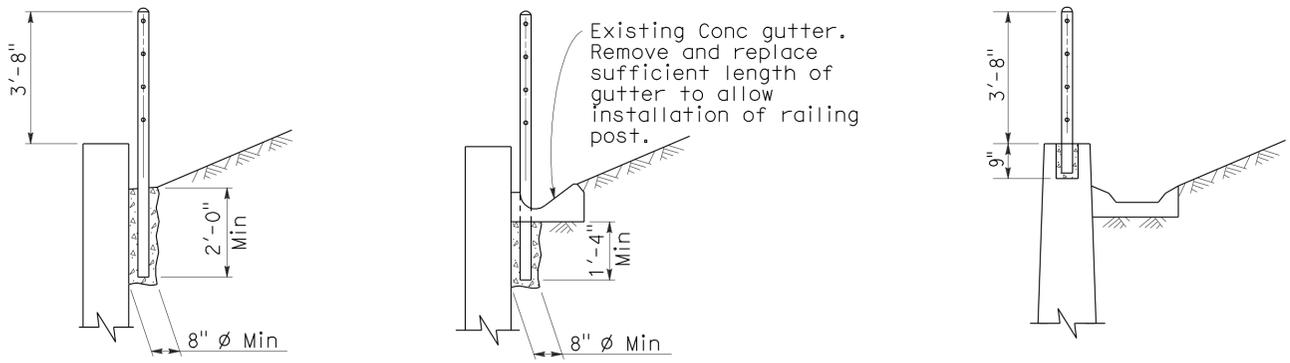


EXISTING WALL (WITHOUT GUTTER) Existing **RETAINING WALL (WITH GUTTER)** Existing **RETAINING WALL (WITH GUTTER)** New construction

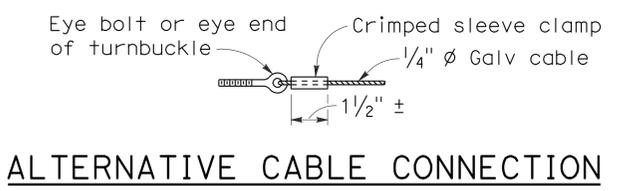
ELEVATION

NOTES:

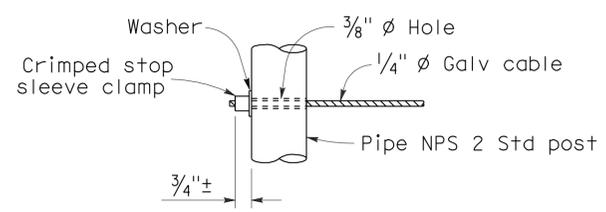
- Maximum distance between turnbuckles shall be 200'-0"±.
- Intermediate turnbuckles to be placed in adjacent spans.
- Cable shall not be spliced between intermediate turnbuckles and end posts.
- All posts, cable, and hardware to be galvanized.
- Posts to be vertical.
- Alignment of holes in posts may vary to conform to slope of top of retaining wall.
- The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.
- Alternative details may be submitted by the Contractor for approval by the Engineer.
- Line posts shall be braced horizontally and trussed diagonally in both directions at intervals not to exceed 1000'.
- Post pockets to be centered in top of wall.
- Typical end spans, braced in both directions, shall be constructed at changes in line where the angle of deflection is 15° or more.
- Provide thimbles at all cable loops.



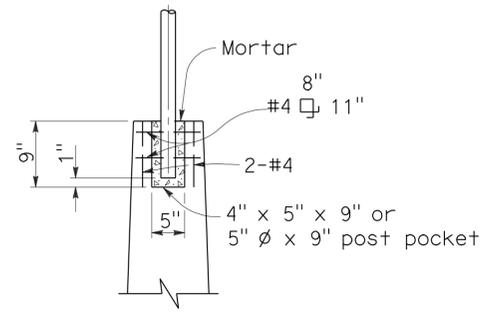
SECTION A-A Existing **SECTION B-B** Existing **SECTION C-C** New construction



ALTERNATIVE CABLE CONNECTION



ALTERNATIVE DEAD END ANCHORAGE



POST POCKET

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CABLE RAILING

NO SCALE

RSP B11-47 DATED OCTOBER 21, 2011 SUPERSEDES STANDARD PLAN B11-47 DATED MAY 1, 2006 - PAGE 268 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP B11-47

2006 REVISED STANDARD PLAN RSP B11-47

ELECTROLIERS

STANDARD TYPES		
15, 15D		High mast light pole
15 STRUCTURE		Double Arm lighting standard
21, 21D STRUCTURE		Existing electrolier
30		Electrolier foundation (Future installation)
31		
32		
35		
36-20A		

NOTES:

- Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS when installed on other type standards or poles, unless otherwise specified.
- Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.
- Variations noted adjacent to symbol on project plans.

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

STANDARD NOTES:

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

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, 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
06	Kin	198	R8.9/R10.1	273	352

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 11-28-11

SOFFIT AND WALL MOUNTED LUMINAIRES

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

NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	274	352

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

To accompany plans dated 11-28-11

CONDUIT

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

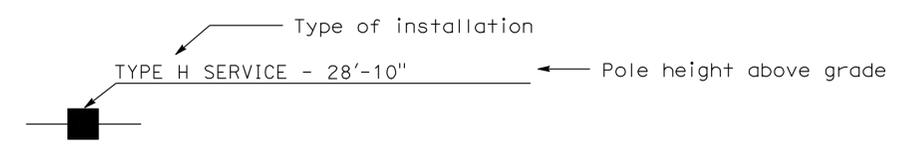
SIGNAL EQUIPMENT

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

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

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

SIGNAL EQUIPMENT Cont

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

NOTES:

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

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

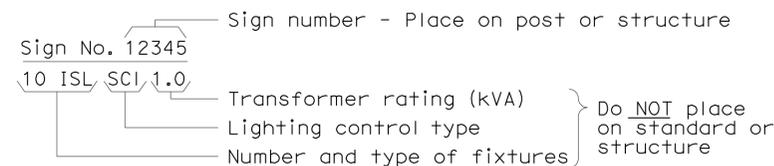
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

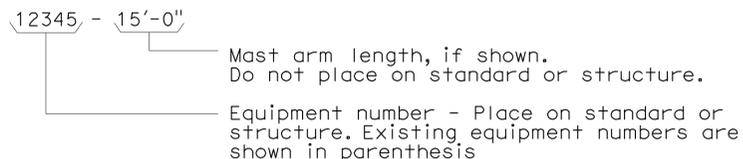
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

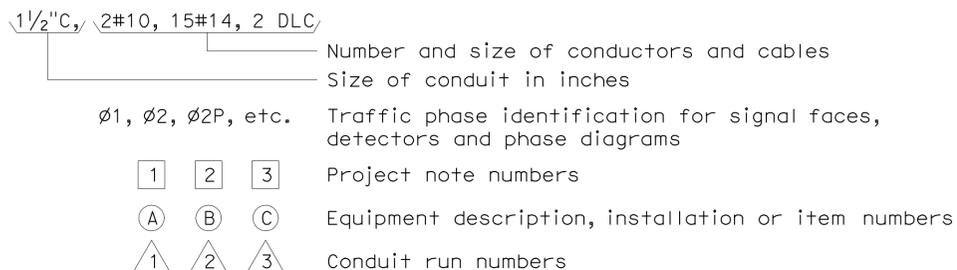
ILLUMINATED SIGN IDENTIFICATION NUMBER:



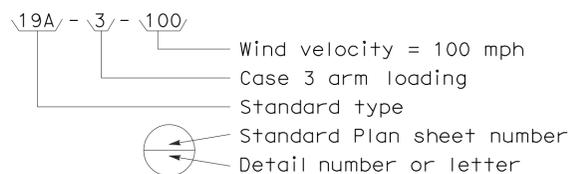
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



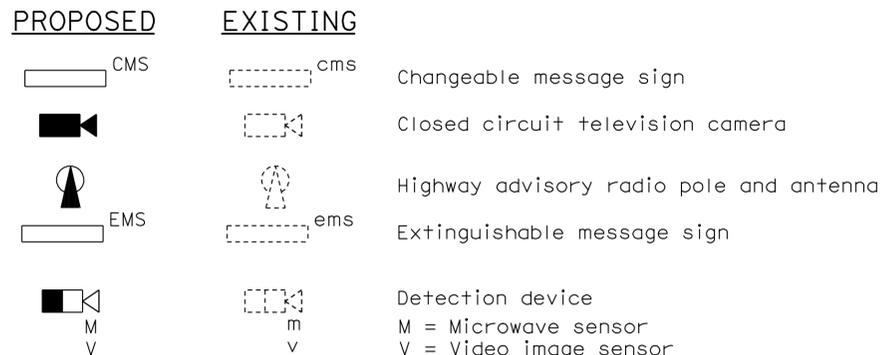
CONDUIT AND CONDUCTOR IDENTIFICATION:



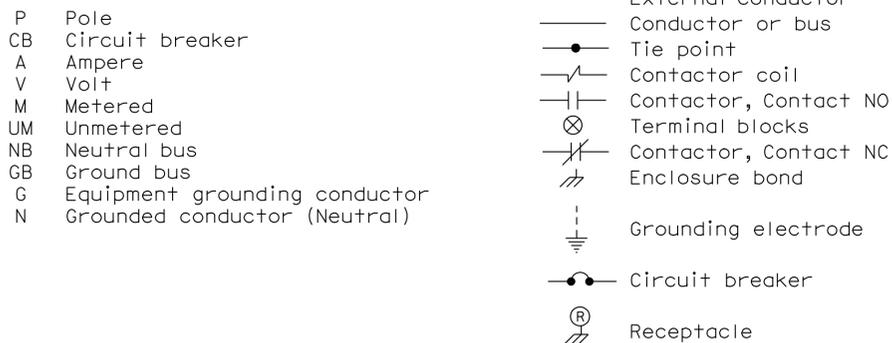
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



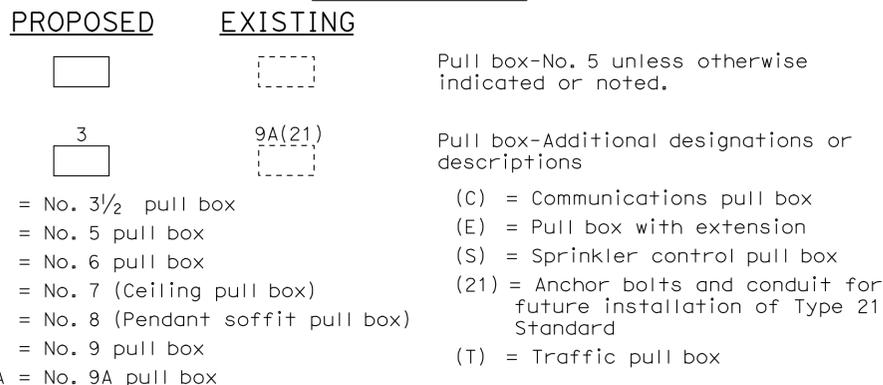
MISCELLANEOUS EQUIPMENT



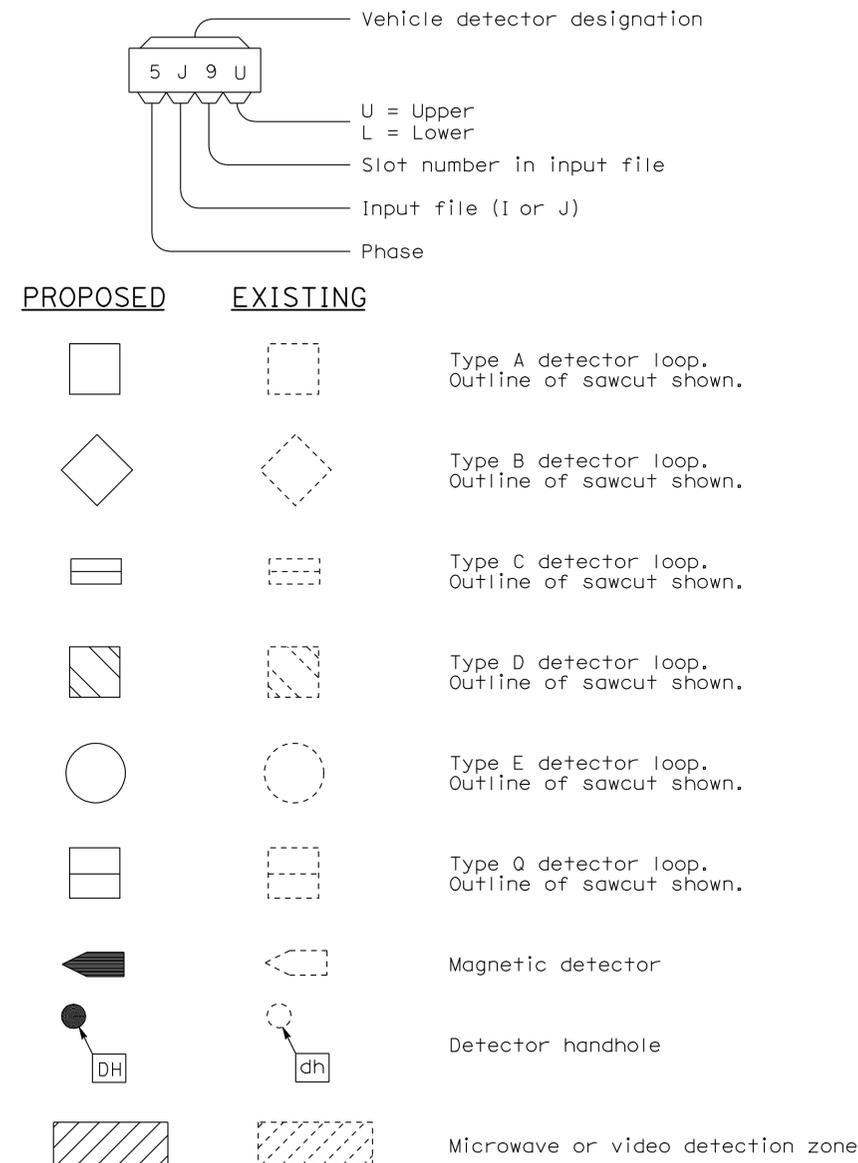
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	276	352

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.

NOTES-TYPE III SERVICE EQUIPMENT ENCLOSURES:

1. Service equipment enclosure and metering equipment shall meet the requirements of the service utility. The meter area shall have a sealable, lockable, weathertight cover that can be removed without the use of tools.
2. Service equipment enclosures shall be factory wired and conform to NEMA standards.
3. Dimensions of service equipment enclosures shall meet the requirements of the service utility.
4. The dead front panels on Type III service equipment enclosures shall have a continuous stainless steel or aluminum piano hinge. The panel in front of the breakers shall be secured with a latch or captive screws. No live parts shall be mounted on the dead front panel.
5. The exterior door shall have provisions for padlocking. The padlock hole shall be a minimum diameter of $\frac{7}{16}$ ".
6. Enclosures housing transformers of more than one kVA shall have effective screened ventilation louver of not less than 50 square inches. Screen shall be stainless steel No. 304, with a No. 10 size mesh. Framed screen shall be secured with at least four bolts.
7. Fasteners on the exterior of the enclosure shall be vandal-resistant and shall not be removable from the exterior. Exterior screws, nuts, bolts and washers shall be stainless steel.
8. Landing lugs for incoming service conductors shall be compatible with either copper or aluminum conductors sized to suit the conductors shown on the plan. Landing lugs shall be copper or tin-plated aluminum. Neutral bus shall be rated for 125 A and be suitable for copper or aluminum conductors unless otherwise specified. The terminal shall include but not be limited to:
 - a) Incoming terminals (landing lugs)
 - b) Neutral lugs
 - c) Solid neutral terminal strip
9. At least 6 standard single pole circuit breaker spaces, $\frac{3}{4}$ " nominal, shall be provided for branch circuits. Circuit breaker interiors shall be copper. Interiors of enclosure shall accept plug-in or cable-in/cable-out circuit breakers.
10. Control wiring shall be 600 V, 14 stranded machine tool wire. Where subject to flexing, 19 strand wire shall be used.
11. Main bus shall be rated for 125 A and shall be tin-plated copper.
12. A plastic laminated wiring diagram shall be provided with brass mounting eyelets and attached to the inside of the enclosure and the wiring diagram shall be affixed to the interior with a UL or ETL approved method.

13. An engraved phenolic nameplate on the dead front panel indicating the function of each circuit or device shall be installed with stainless steel rivets or stainless steel screws:
 - a) Adjacent to the breaker or device with character size a minimum of $\frac{1}{8}$ ".
 - b) At the top of the exterior door panel indicating State system number, voltage level and number of phases with character size a minimum of $\frac{3}{16}$ ".
14. The plan shows the approximate location of devices within the enclosure. Components may be rearranged, however, the "working" clearances within the service equipment enclosure shall be maintained.
15. In unpaved areas a raised portland cement concrete pad 2'-0" x 4" x width of foundation shall be constructed in front of new service equipment enclosure installation. Pad shall be set to elevation of foundation.
16. Foundation shall extend 2" minimum beyond edge of service equipment enclosure.
17. Internal bus, where shown, is typical only. Alternative design of proposed service equipment enclosure shall be submitted to the Engineer for approval.
18. Plug-in circuit breakers may be mounted in the vertical or horizontal position. Cable-in/cable-out circuit breakers shall be mounted in the vertical position.
19. Type III-AF and Type III-BF service equipment enclosures shall have the meter viewing windows located on the front side of the service equipment enclosures.
20. Type III-AR and Type III-BR service equipment enclosures shall be similarly constructed as Type III-AF and Type III-BF respectively, except the meter viewing windows shall be located on the back side of the service equipment enclosures.
21. Minimum clearance shall be required for front and back of service equipment enclosure per National Electrical Code, Article 110.26, "Spaces About Electric Equipment (600 Volts, Nominal, or Less)."

To accompany plans dated 11-28-11

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

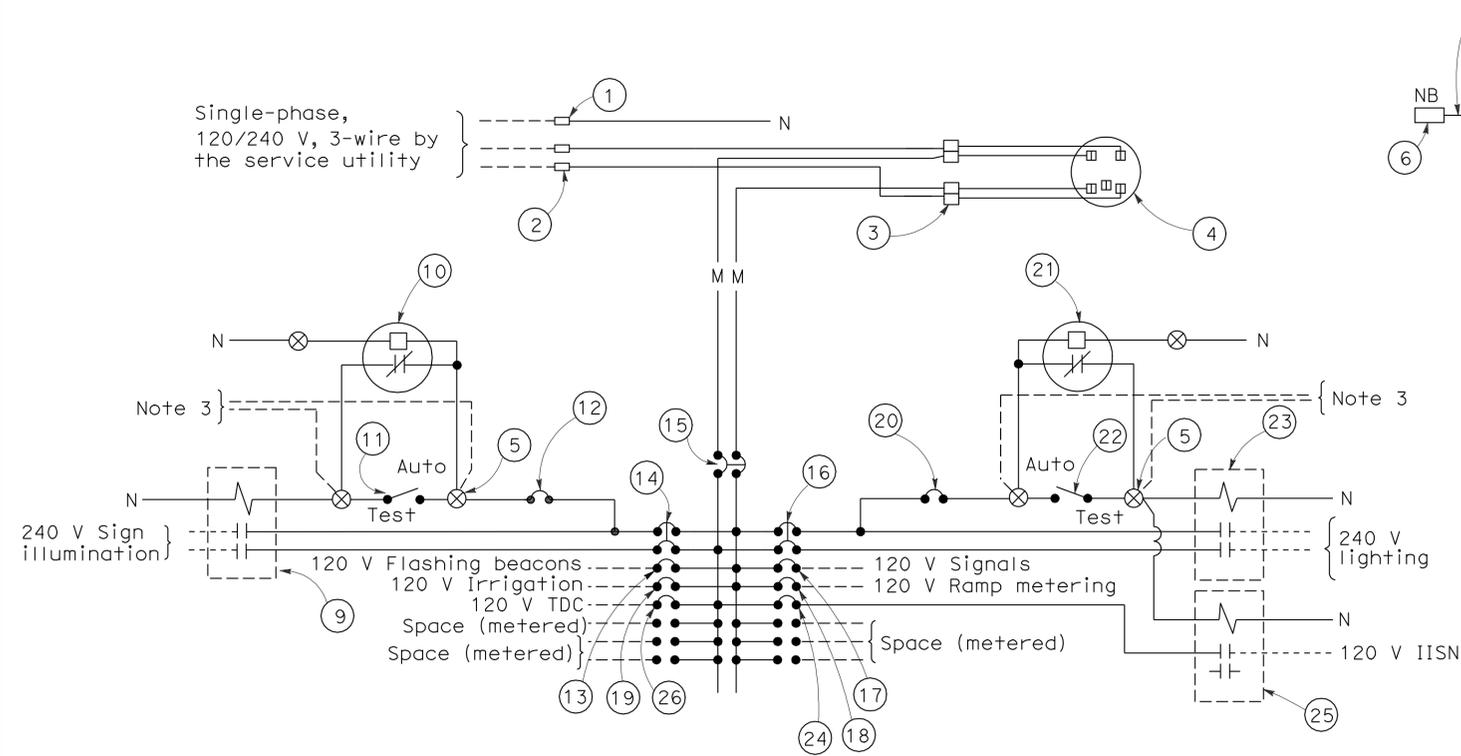
**ELECTRICAL SYSTEMS
(SERVICE EQUIPMENT NOTES
TYPE III SERIES)**

NO SCALE

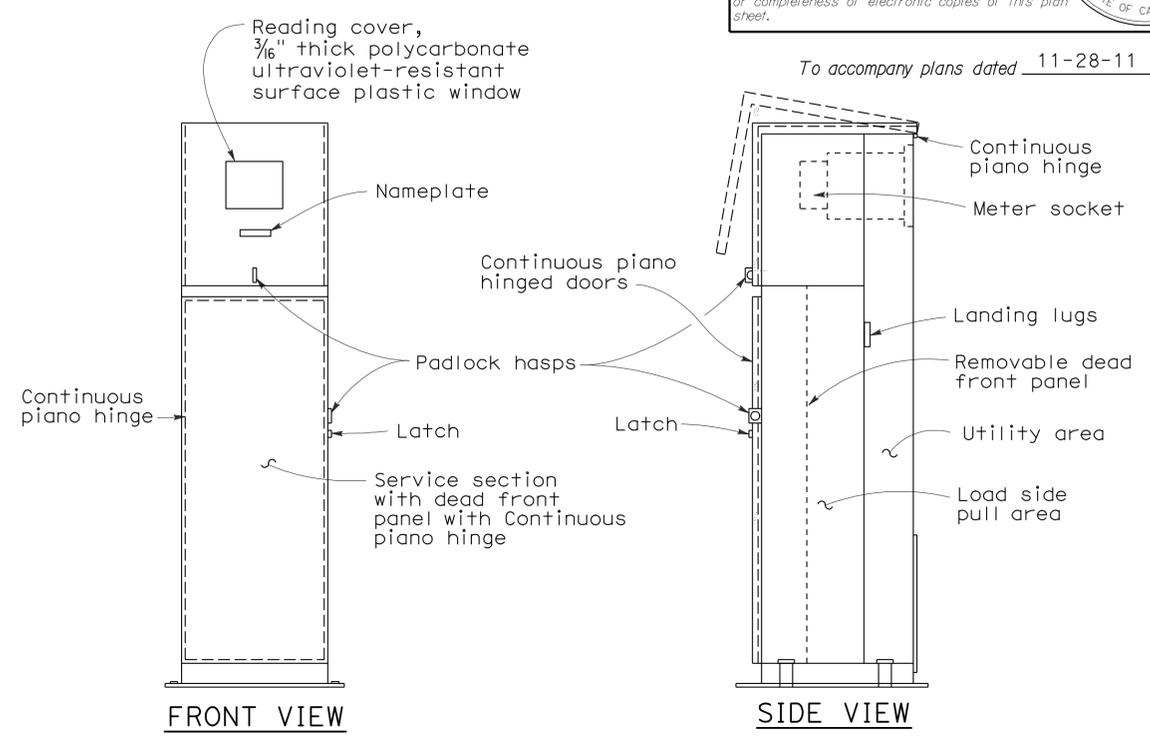
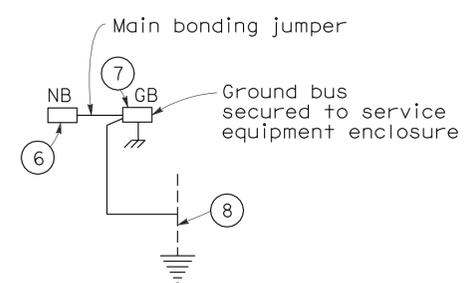
RSP ES-2C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2C
DATED MAY 1, 2006 - PAGE 405 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-2C

2006 REVISED STANDARD PLAN RSP ES-2C



120/240 V SERVICE WIRING DIAGRAM (TYPICAL)

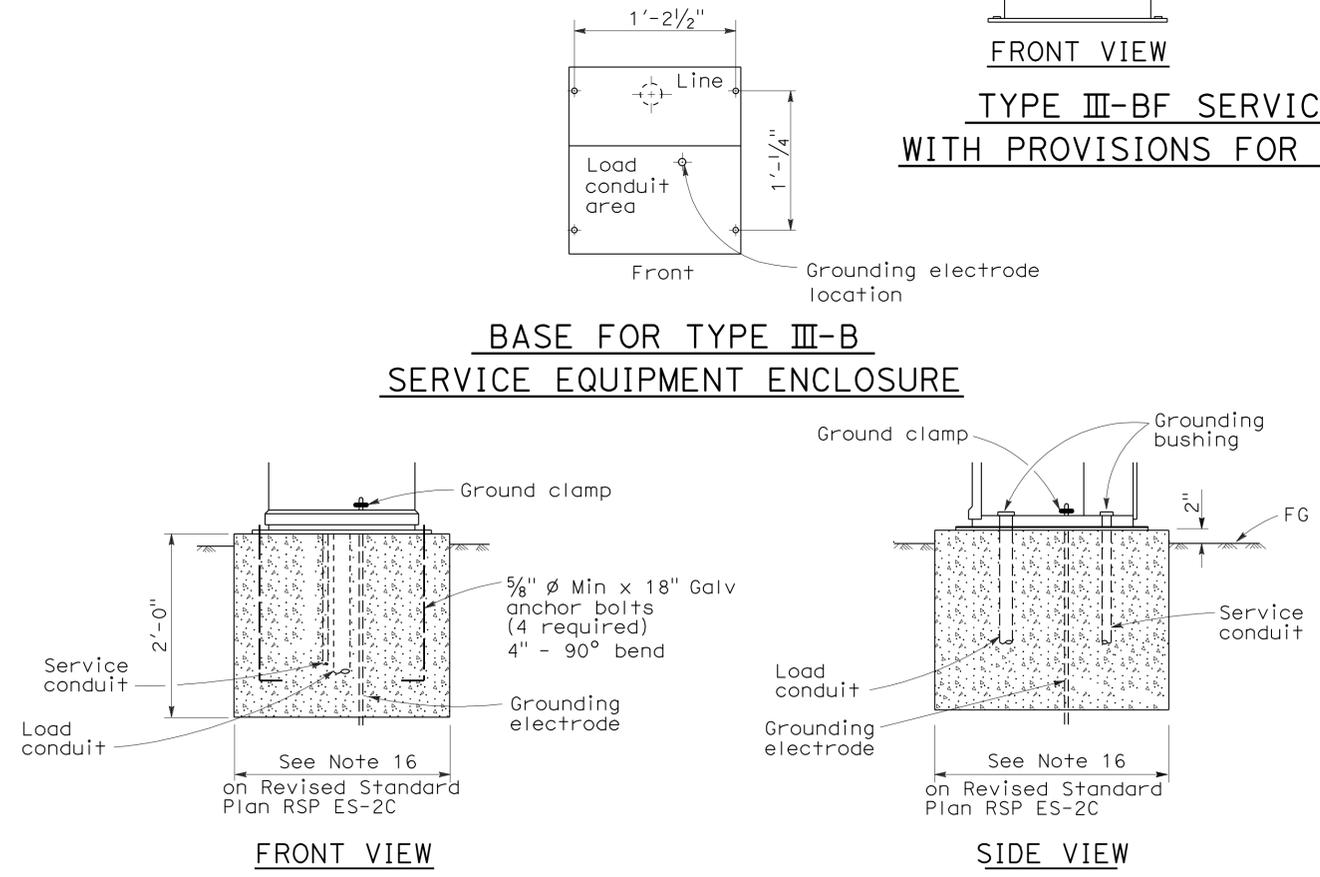


TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH PROVISIONS FOR ONE 100 A METER (TYPICAL)

- NOTES: (FOR SERVICE EQUIPMENT ENCLOSURE)**
1. Voltage ratings of service equipment shall conform to the service voltages indicated on the plans.
 2. Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.
 3. Connect to remote test switch mounted on lighting standards, sign post or structure when required.
 4. Items No. ① and ⑥ shall be isolated from the service equipment enclosure.
 5. Meter sockets shall be 5 clip type.
 6. The landing lug shall be suitable for multiple conductors.
 7. Type I photoelectric control shall be used unless otherwise indicated on the plans.

TYPE III-B SERVICE (120/240 V) EQUIPMENT LEGEND		
ITEM No.	COMPONENT	NAME PLATE DESCRIPTION
①	Neutral lug	
②	Landing lug (Note 6)	
③	Test bypass facility	
④	Meter socket and support	
⑤	Terminal blocks	
⑥	Neutral bus	
⑦	Ground bus	
⑧	Grounding electrode	
⑨	30 A, 2PNO Contactor	Sign Illumination
⑩	Photoelectric unit (Note 7)	
⑪	15 A, 1P, Test switch	Sign Illumination Test Switch
⑫	15 A, 120 V, 1P, CB	Sign Illumination Control
⑬	15 A, 120 V, 1P, CB	Flashing Beacon
⑭	30 A, 240 V, 2P, CB	Sign Illumination
⑮	100 A, 240 V, 2P, CB	Main Breaker
⑯	30 A, 240 V, 2P, CB	Lighting
⑰	50 A, 120 V, 1P, CB	Signals
⑱	30 A, 120 V, 1P, CB	Ramp Metering
⑲	20 A, 120 V, 1P, CB	Irrigation
⑳	15 A, 120 V, 1P, CB	Lighting Control
㉑	Photoelectric unit (Note 7)	
㉒	15 A, 1P, Test switch	Lighting Test Switch
㉓	60 A, 2PNO Contactor	Lighting
㉔	15 A, 120 V, 1P, CB	IISNS
㉕	30 A, 2PNO Contactor	IISNS
㉖	20 A, 120 V, 1P, CB	Telephone Demarcation Cabinet

BASE FOR TYPE III-B SERVICE EQUIPMENT ENCLOSURE



TYPE III-B SERVICE EQUIPMENT ENCLOSURE FOUNDATION DETAILS

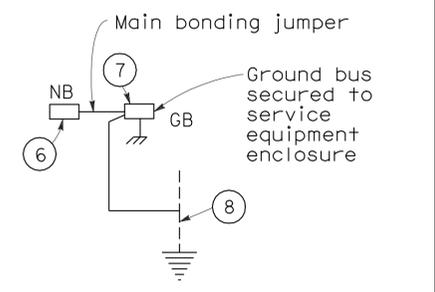
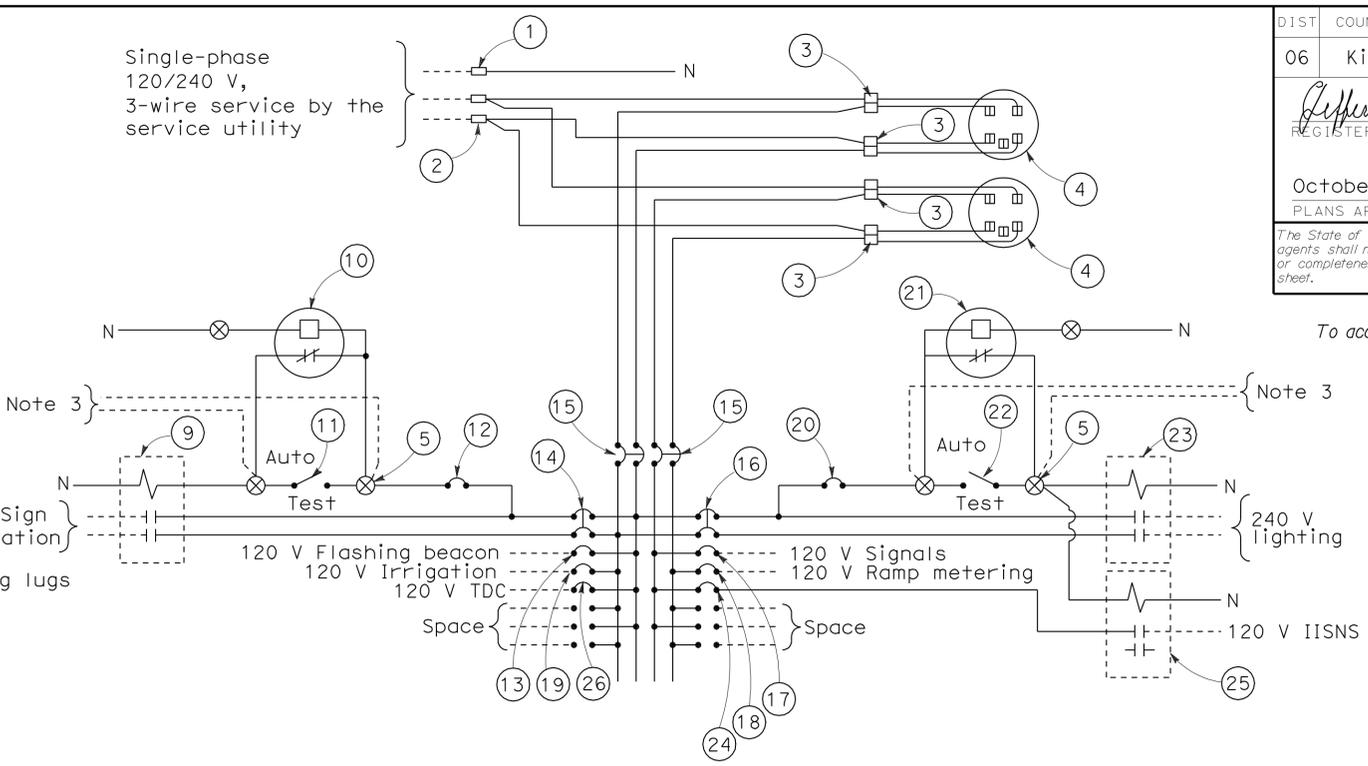
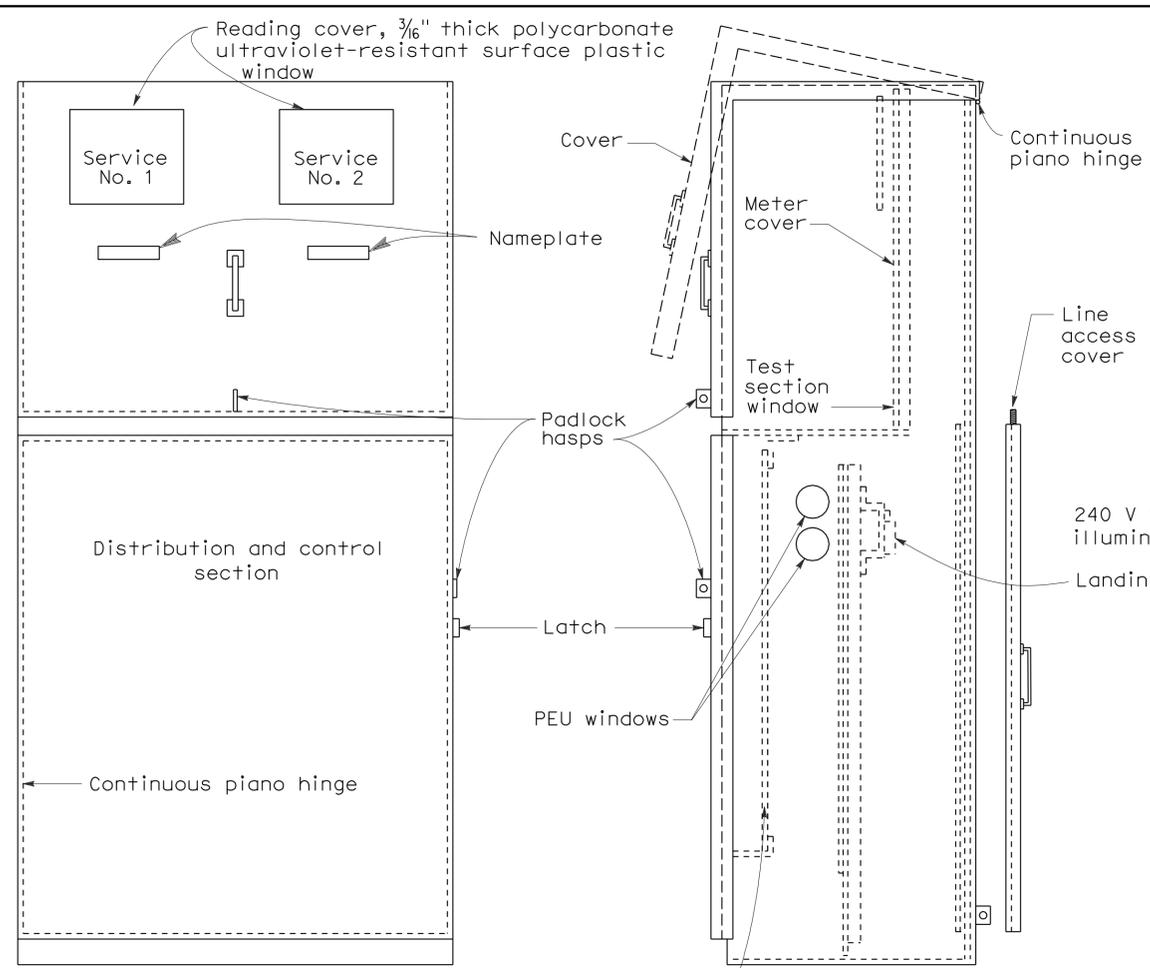
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SERVICE EQUIPMENT AND TYPICAL WIRING DIAGRAM, TYPE III-B SERIES)

NO SCALE

RSP ES-2E DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2E DATED MAY 1, 2006 - PAGE 407 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP ES-2E



120/240 V SERVICE WIRING DIAGRAM (TYPICAL)

TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH PROVISIONS FOR TWO 100 A METERS (TYPICAL)

TYPE III-C SERVICE (120/240 V) EQUIPMENT LEGEND

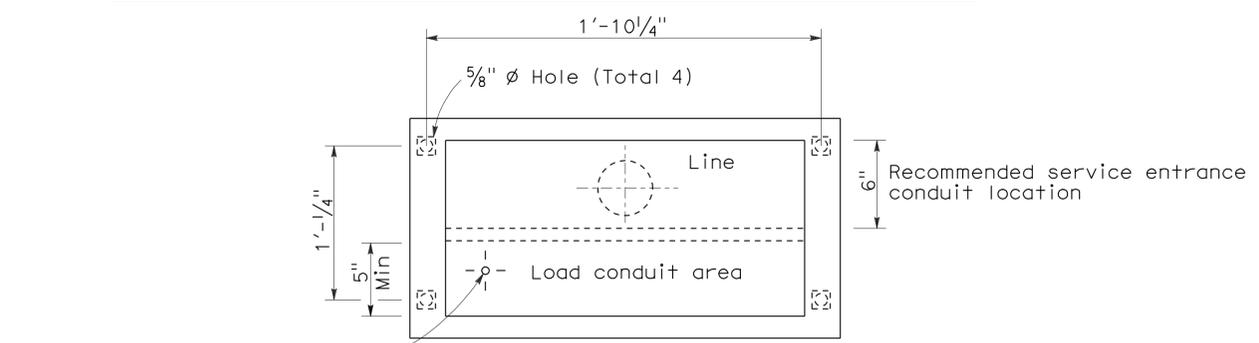
ITEM No.	COMPONENT	NAME PLATE DESCRIPTION	ITEM No.	COMPONENT	NAME PLATE DESCRIPTION
1	Neutral lug		14	30 A, 240 V, 2P, CB	Sign Illumination
2	Landing lug (Note 6)		15	100 A, 240 V, 2P, CB	Main Breaker
3	Test bypass facility		16	30 A, 240 V, 2P, CB	Lighting
4	Meter socket and support		17	50 A, 120 V, 1P, CB	Signals
5	Terminal blocks		18	30 A, 120 V, 1P, CB	Ramp Metering
6	Neutral bus		19	20 A, 120 V, 1P, CB	Irrigation
7	Ground bus		20	15 A, 120 V, 1P, CB	Lighting Control
8	Grounding electrode		21	Photoelectric unit (Note 7)	
9	30 A, 2PNO, Contactor	Sign Illumination	22	15 A, 1P, Test switch	Lighting Control
10	Photoelectric unit (Note 7)		23	60 A, 2PNO Contactor	Lighting
11	15 A, 1P, Test switch	Sign Illumination Test Switch	24	15 A, 120 V, 1P, CB	IISNS
12	15 A, 120 V, 1P, CB	Sign Illumination Control	25	30 A, 2PNO Contactor	IISNS
13	15 A, 120 V, 1P, CB	Flashing Beacon	26	20 A, 120 V, 1P, CB	Telephone Demarcation Cabinet

NOTES: (FOR SERVICE EQUIPMENT ENCLOSURE)

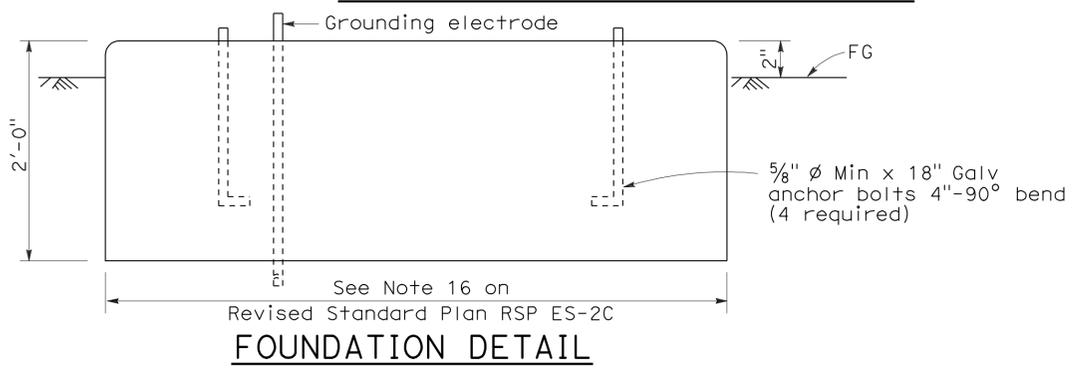
- Voltage ratings of service equipment shall conform to the service voltages indicated on the plans.
- Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.
- Connect to remote test switch mounted on lighting standards, sign post or structure when required.
- Items No. 1 and 6 shall be isolated from the service equipment enclosure.
- Meter sockets shall be 5 clip type.
- The landing lug shall be suitable for multiple conductors.
- Type I photoelectric control shall be used unless otherwise indicated on the plans.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SERVICE EQUIPMENT AND
 TYPICAL WIRING DIAGRAM
 TYPE III - C SERIES)**
 NO SCALE

RSP ES-2F DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2F
 DATED MAY 1, 2006 - PAGE 408 OF THE STANDARD PLANS BOOK DATED MAY 2006.



BASE FOR TYPE III-C SERVICE EQUIPMENT ENCLOSURE



FOUNDATION DETAIL

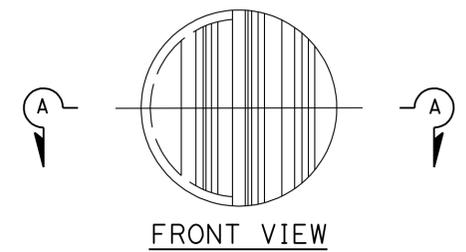
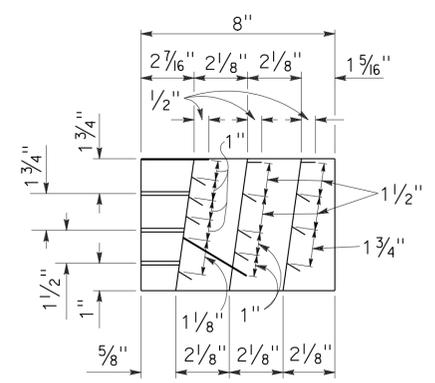
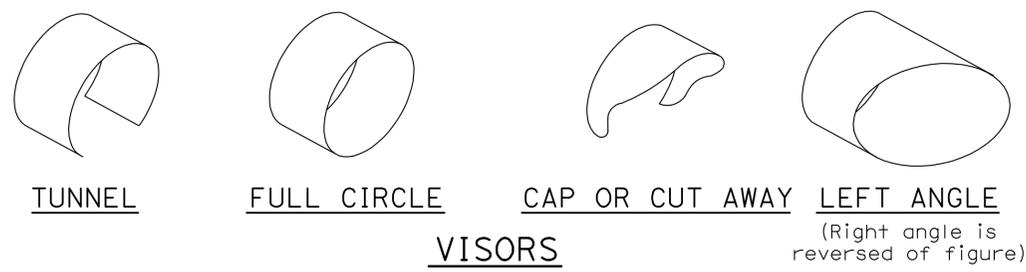
2006 REVISED STANDARD PLAN RSP ES-2F

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	279	352

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

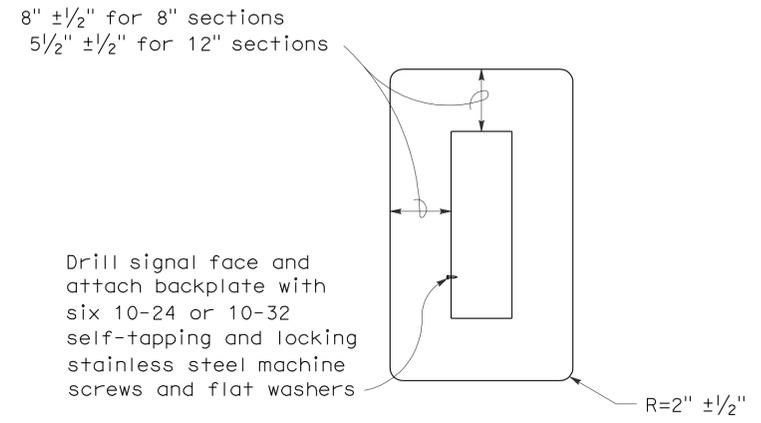
June 6, 2008
 PLANS APPROVAL DATE

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DIRECTIONAL LOUVER

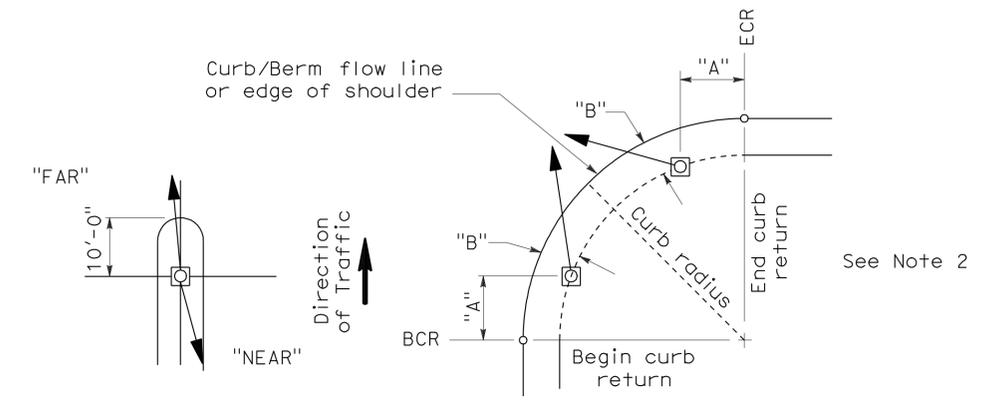
Directional louvers shall be oriented as directed by the Engineer and secured in place with one plated brass machine screw and nut.



8" AND 12" SECTIONS

BACKPLATE

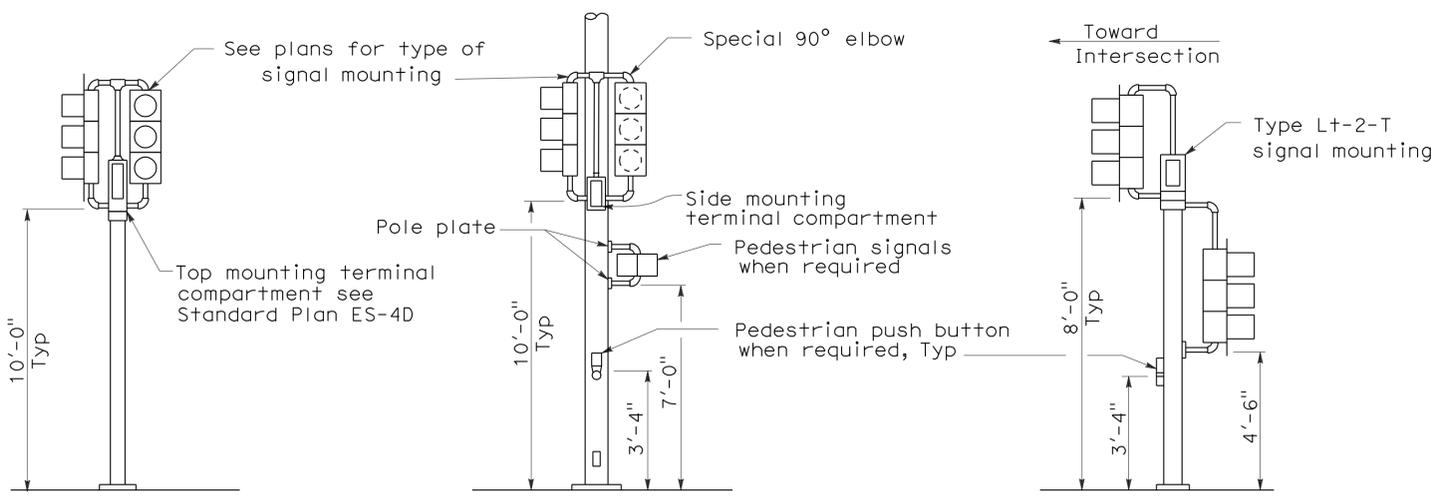
1/16" minimum thickness
 3001-14 aluminum, or plastic when specified



NOTES:

1. Typical signal pole placement unless dimensioned on plans.
2. For "A" and "B" dimensions, see Pole Schedule, or as directed by the Engineer.

SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS



TOP MOUNTED SIGNALS (TV)

Type 1-A, 1-B, 1-C and 1-D standard as indicated on the plans

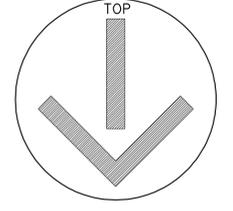
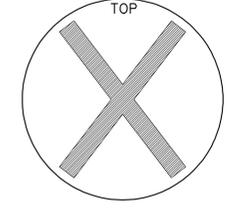
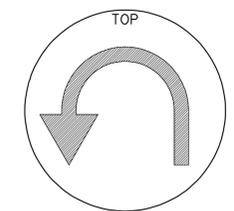
SIDE MOUNTED SIGNALS (SV AND SP)

Normally used on standards with luminaire or signal mast arm

LEFT TURN LANE SIGNAL

Type 1-A, 1-B, 1-C and 1-D standard as indicated on plans

TYPICAL SIGNAL INSTALLATIONS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

RSP ES-4C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN ES-4C DATED MAY 1, 2006 - PAGE 420 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-4C

2006 REVISED STANDARD PLAN RSP ES-4C

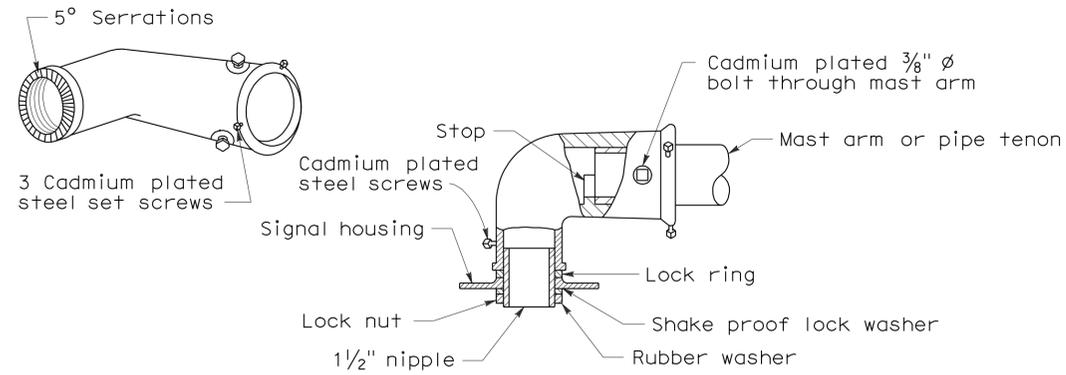
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	280	352

Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

June 6, 2008
 PLANS APPROVAL DATE

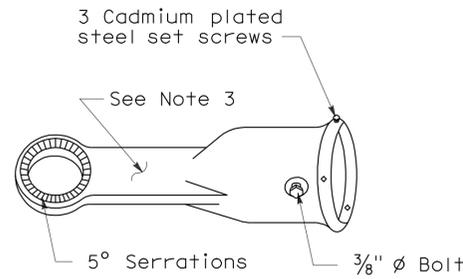
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To accompany plans dated 11-28-11



MAST ARM MOUNTING - TYPE "MAT"

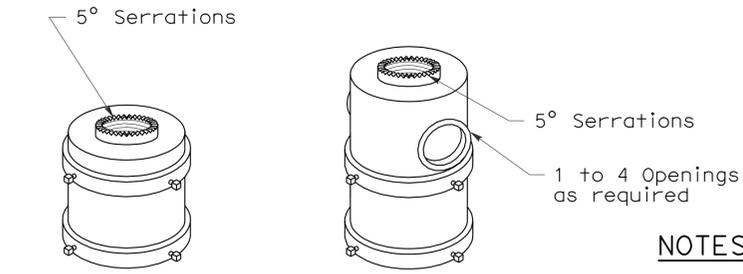
For 2 NPS pipe, see Note 1.



MAST ARM MOUNTING - TYPE "MAS"

For 2 NPS pipe. See Note 1.

SIGNAL SLIP FITTERS



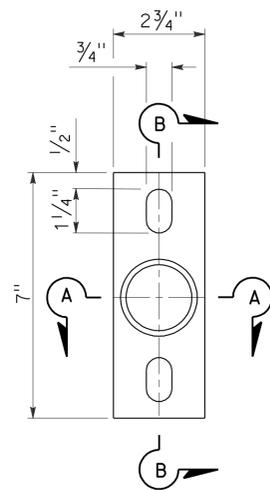
For one mounting For multiple mountings

TOP MOUNTINGS

For 4 NPS pipe, see Note 2.

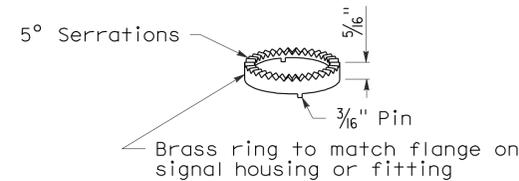
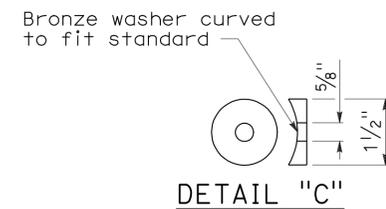
NOTES:

- After mast arm signal has been plumbed and secured, drill 7/16" hole through mast arm tenon in line with slip fitter hole. Place a cadmium plated 3/8" Ø galvanized bolt with washer under bolt head through hole and secure with washer, nut, and locknut. Seal openings between mast arm mountings and mast arm with mastic.
- (a) Threaded top mounted slip fitter openings shall be 1/2" NPS.
 (b) Serrations in fittings shall match those on bottom of signal heads or in lock ring.
 (c) Top opening shall be offset when backplate is used.
- Wireway shall have a cross section area of 0.95 square inch minimum. Minimum width of 1/2".



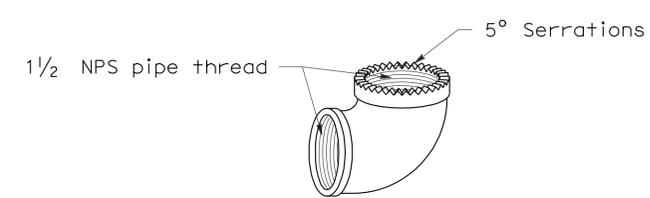
POLE PLATE

For side mountings



LOCK RING

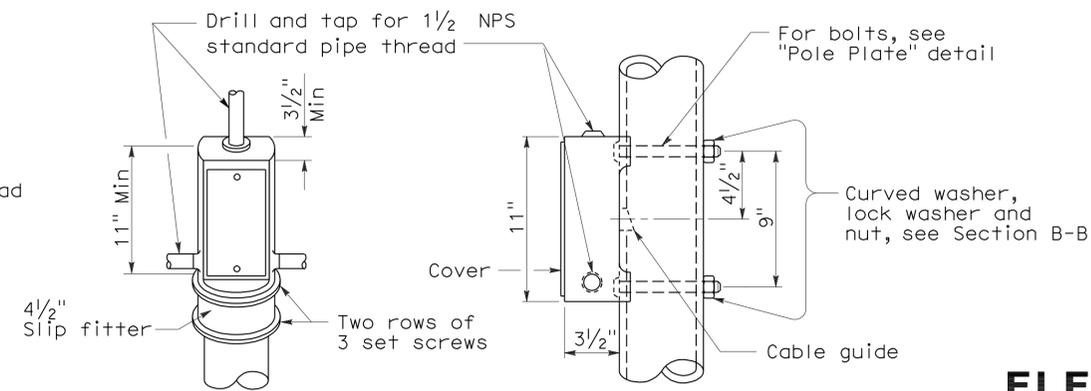
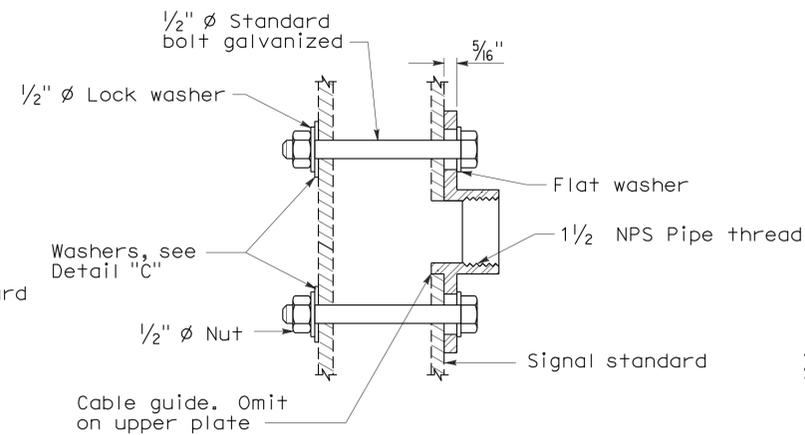
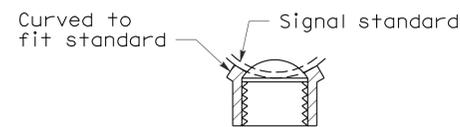
Use where locking ring is not integral with signal housing or fitting.



SPECIAL 90° ELBOW

One for each signal head, except those with special slip fitter mounting

MISCELLANEOUS MOUNTING HARDWARE



TOP MOUNTING

SIDE MOUNTING

TERMINAL COMPARTMENTS

ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

RSP ES-4D DATED June 6, 2008 SUPERSEDES STANDARD PLAN ES-4D DATED MAY 1, 2006 - PAGE 421 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-4D

2006 REVISED STANDARD PLAN RSP ES-4D

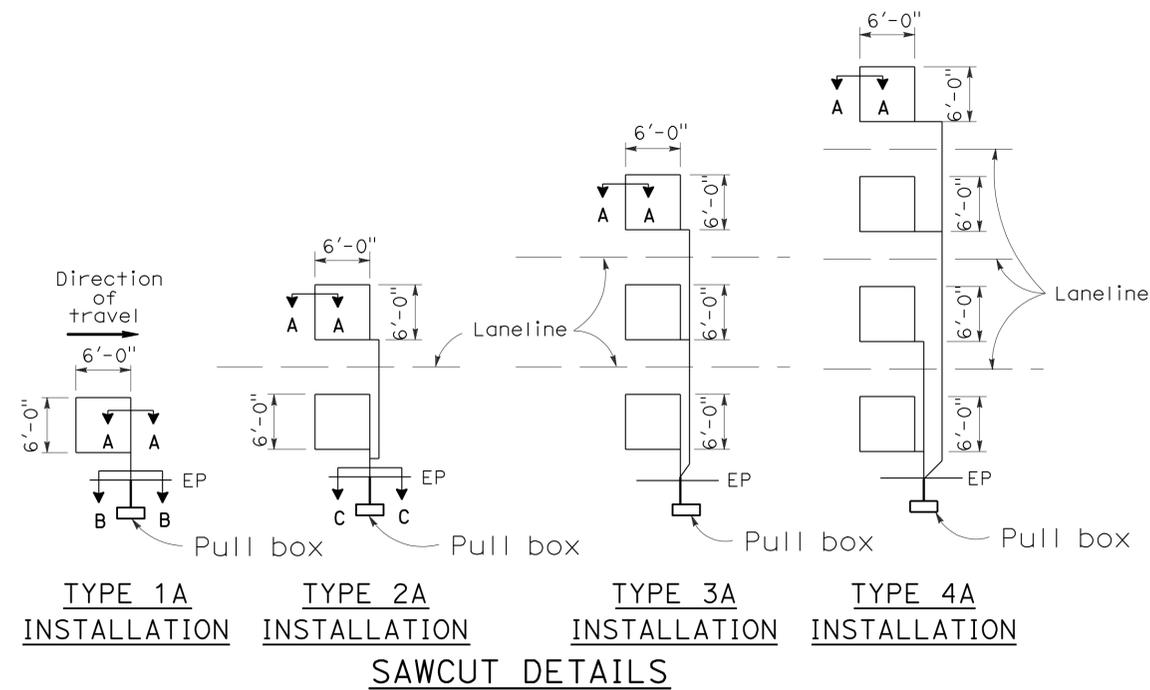
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	281	352

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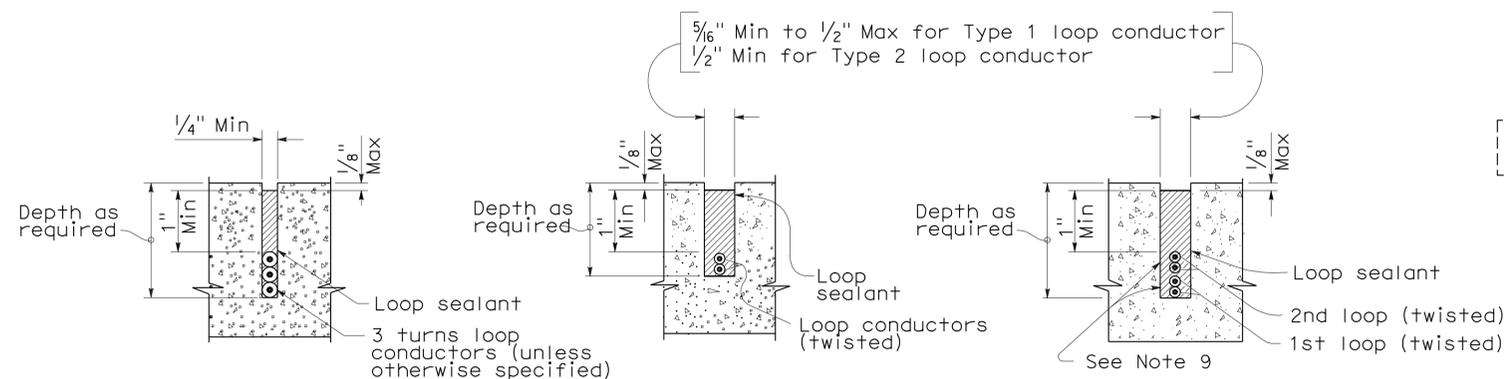
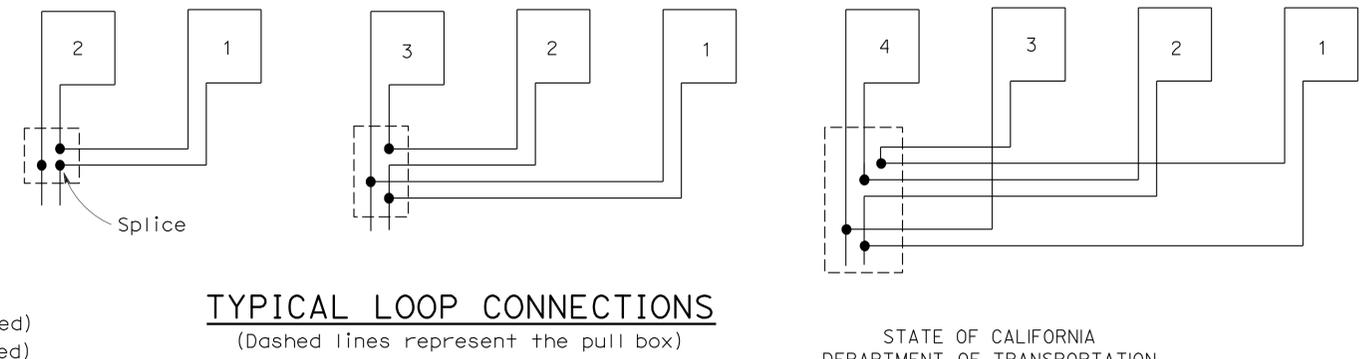
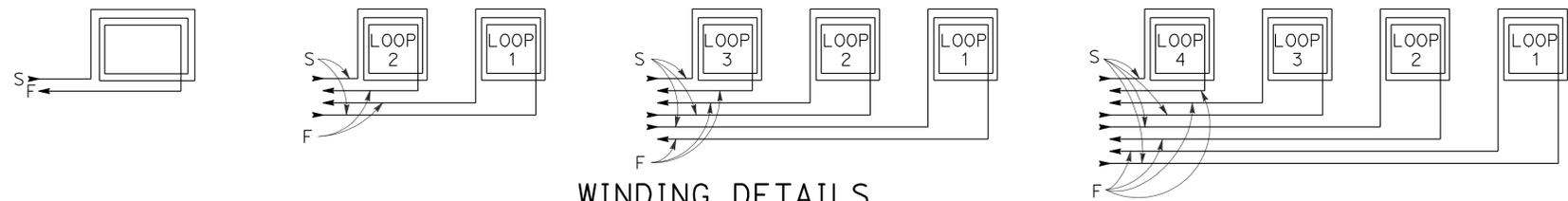
REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

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

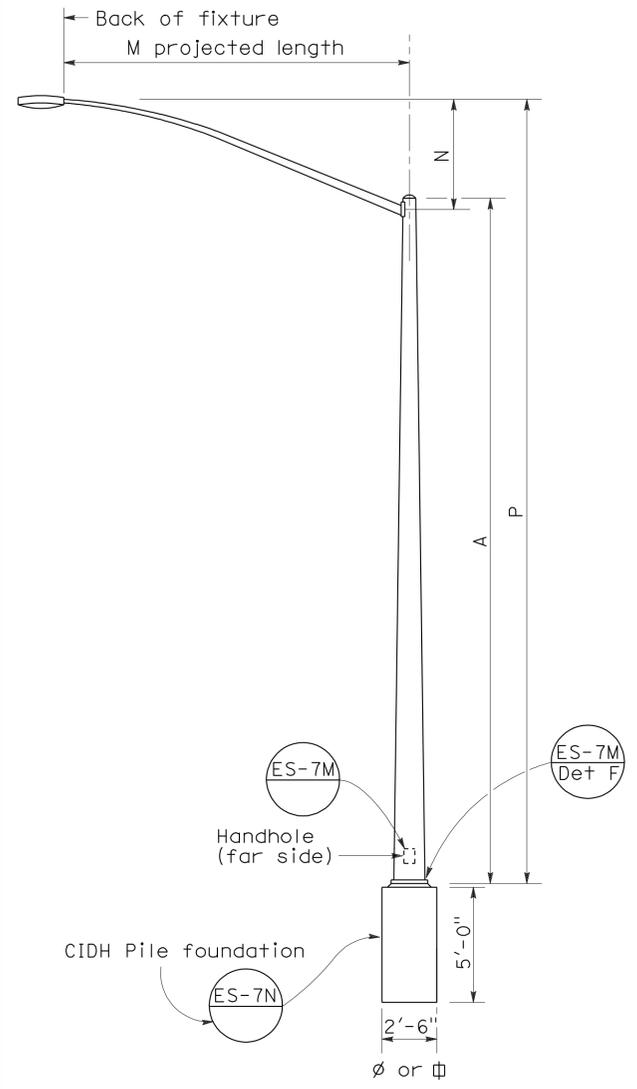
NO SCALE

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.

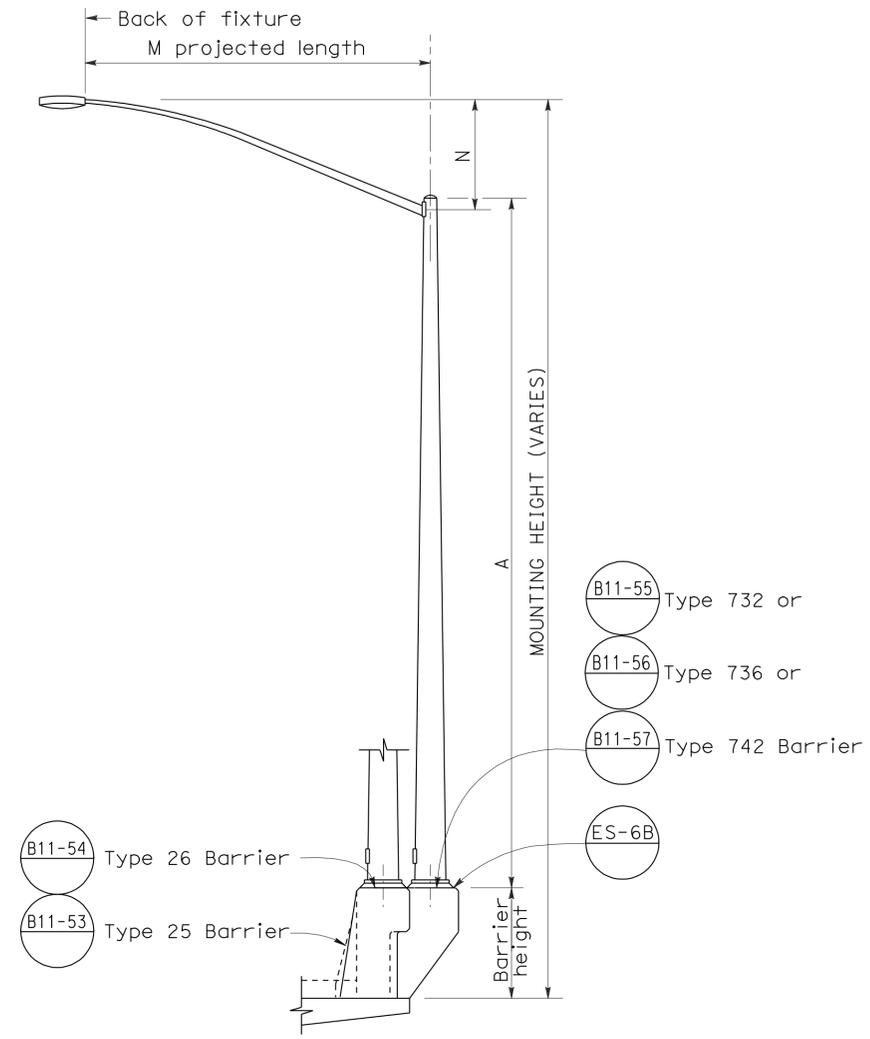
REVISED STANDARD PLAN RSP ES-5A

2006 REVISED STANDARD PLAN RSP ES-5A

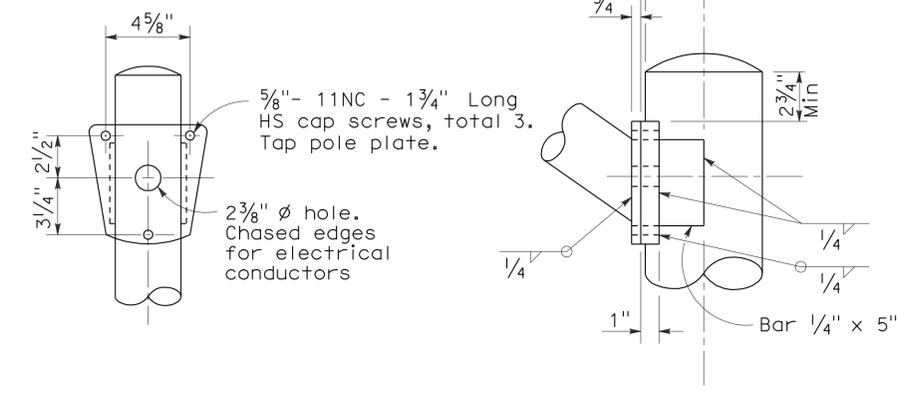
To accompany plans dated 11-28-11



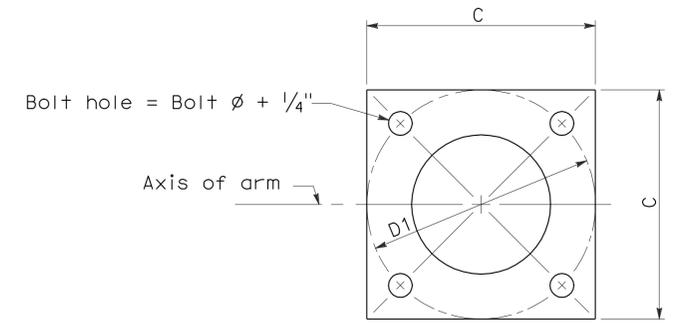
ELEVATION
TYPE 15 AND TYPE 21



ELEVATION
TYPE 15 AND TYPE 21 BARRIER RAIL MOUNTED



DETAIL R
LUMINAIRE ARM CONNECTION



BASE PLATE

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

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

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

NOTES:

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

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

NO SCALE

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

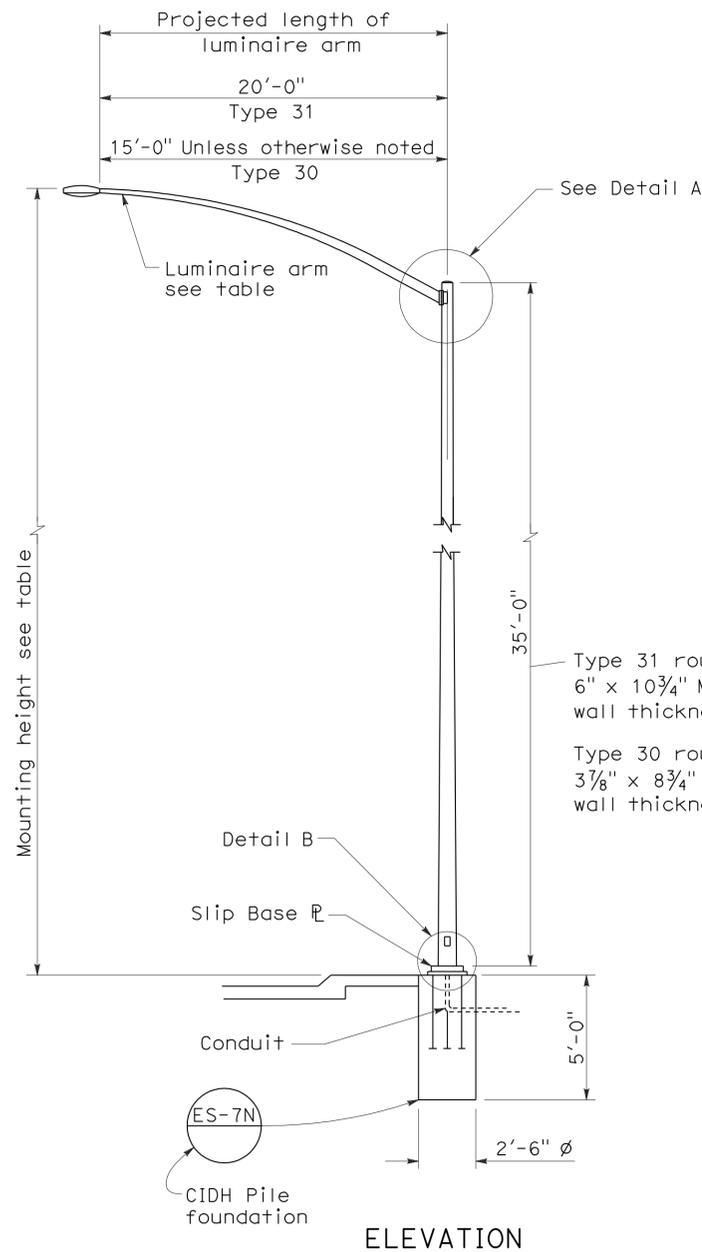
REVISED STANDARD PLAN RSP ES-6A

2006 REVISED STANDARD PLAN RSP ES-6A

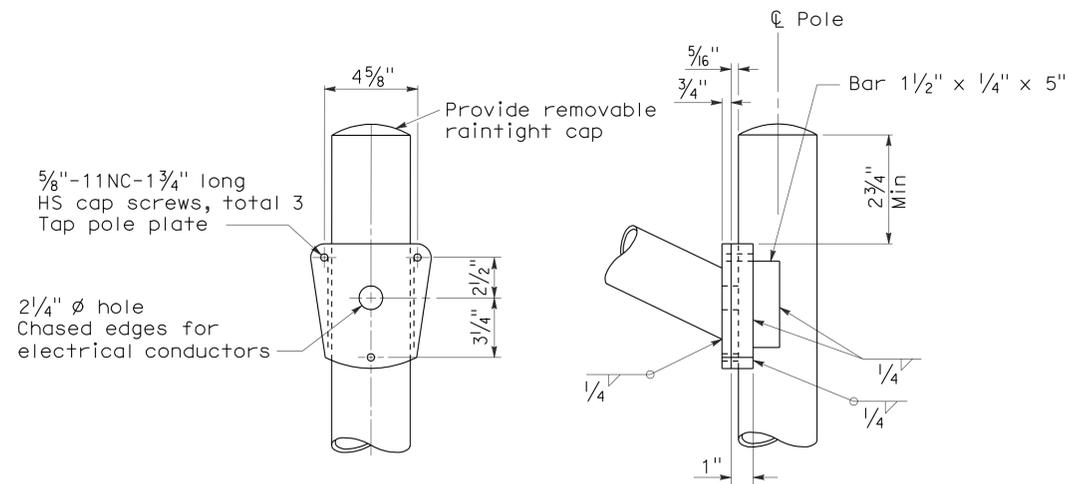
LUMINAIRE ARM DATA

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"±

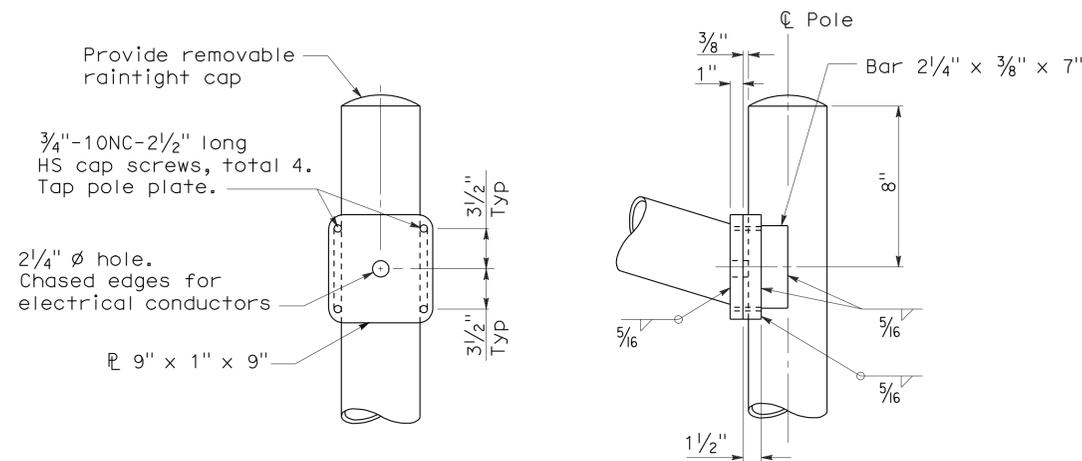
* Type 30 - arm length 6'-0" - 15'-0" maximum
 ** Type 31 - arm lengths 20'-0"



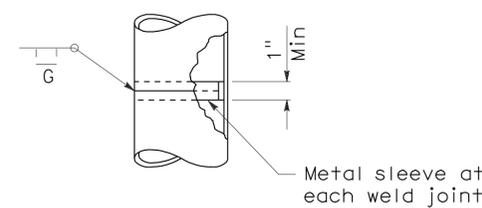
ELEVATION



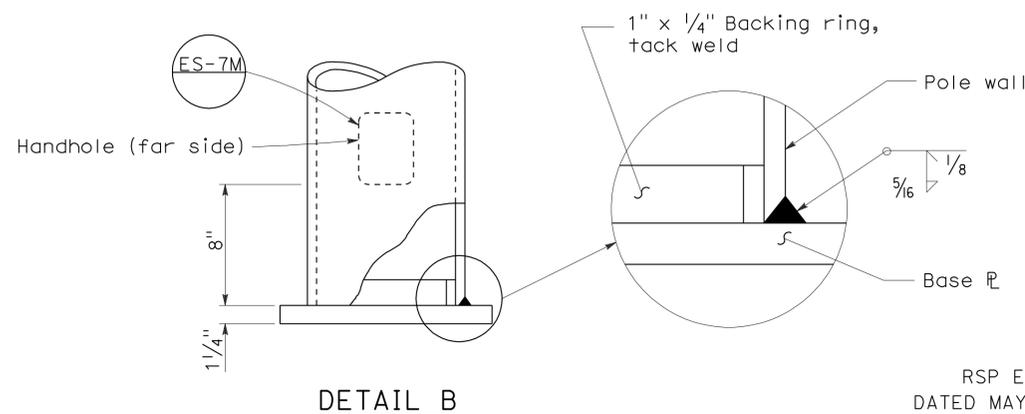
DETAIL A - TYPE 30



DETAIL A - TYPE 31



POLE SPLICE



DETAIL B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	283	352

Stanley P. Johnson
 REGISTERED CIVIL ENGINEER
 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 11-28-11

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

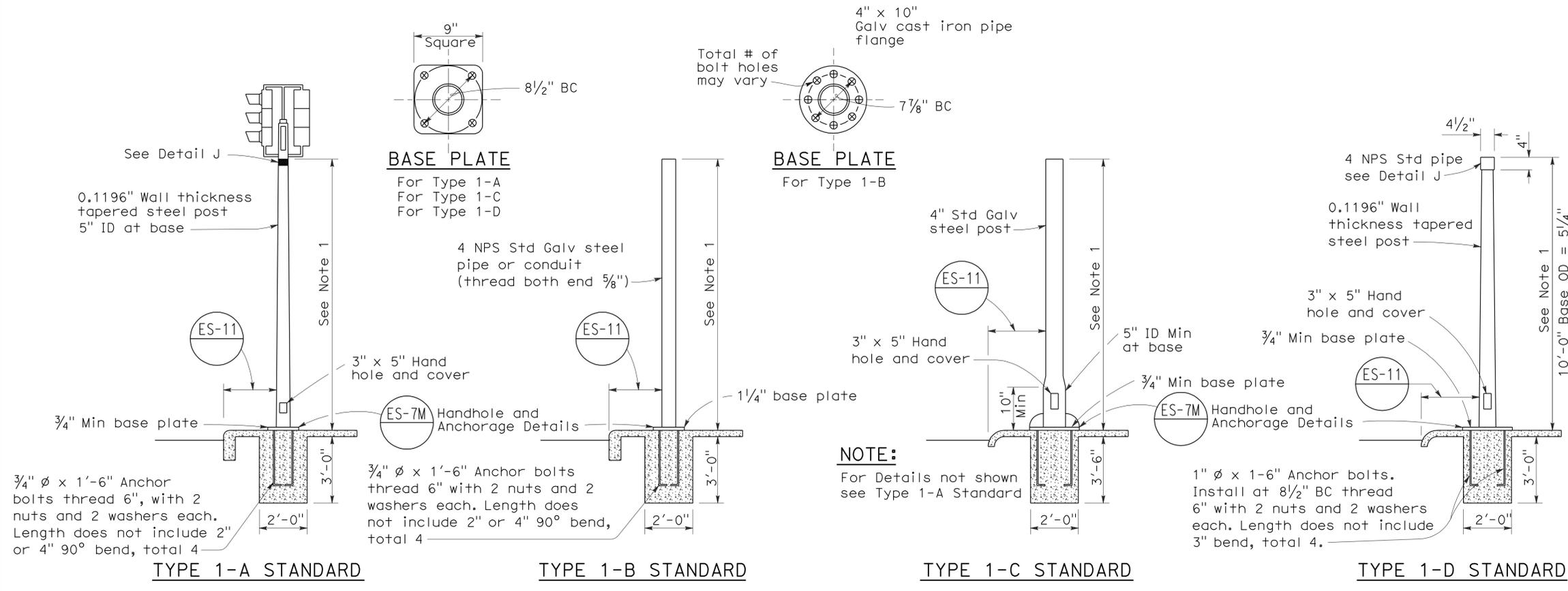
2006 REVISED STANDARD PLAN RSP ES-6E

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	284	352

Stanley P. Johnson
 REGISTERED CIVIL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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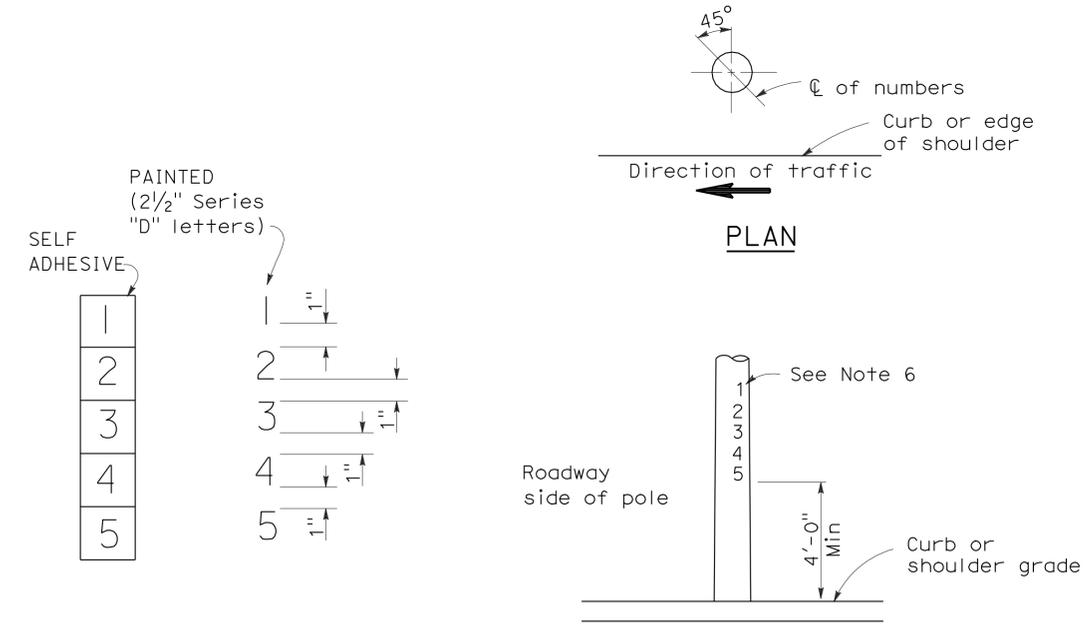
REGISTERED PROFESSIONAL ENGINEER
 Stanley P. Johnson
 No. C57793
 Exp. 3-31-08
 CIVIL
 STATE OF CALIFORNIA

To accompany plans dated 11-28-11

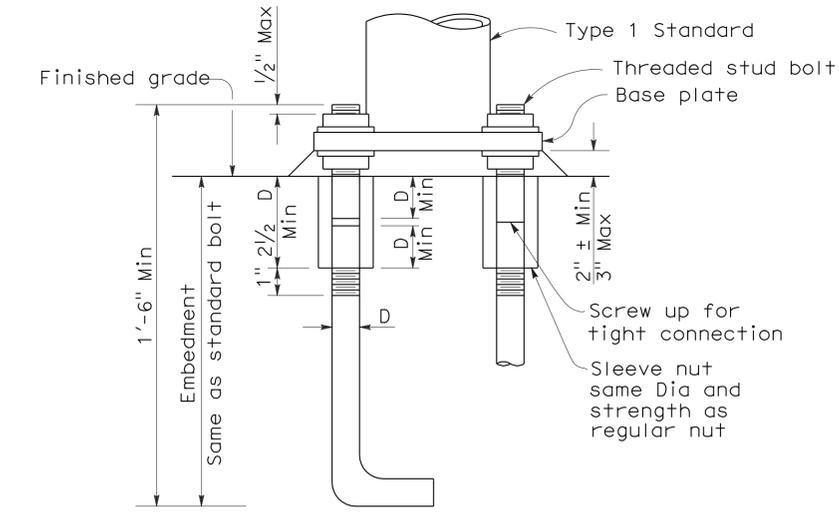


- NOTES:**
- Standards shall be 10'-0" \pm 2" for vehicle signals and 7'-0" \pm 2" for pedestrian signals unless otherwise noted on plans.
 - Top of standards shall be 4 1/2" OD.
 - Conduits shall extend 2" maximum above finished surface of foundation and for Types 1-A, 1-C and 1-D shall be sloped toward handhole.
 - Anchor bolts shall be bonded to conduit or grounding conductor.
 - Conduit between standard and adjacent pull box shall be 2" minimum.
 - Paint numbers on roadway side facing traffic when electrolier or post is left of direction of traffic.

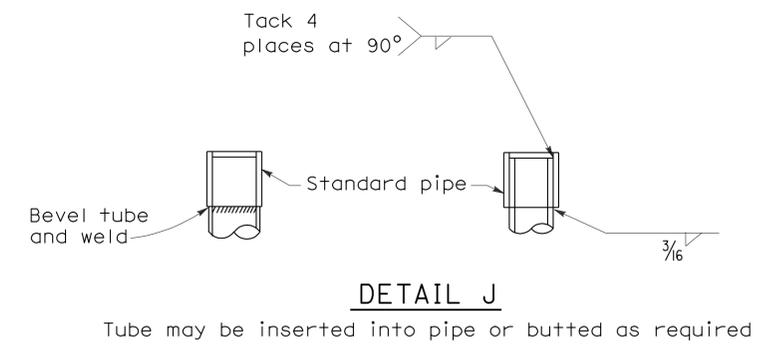
TYPE 1 SIGNAL STANDARDS



LOCATION OF EQUIPMENT NUMBERS ON STANDARDS AND POSTS



ANCHOR BOLTS WITH SLEEVE NUTS
Sleeve nuts to be used only when shown or specified on Project Plans
D = Diameter of anchor bolt



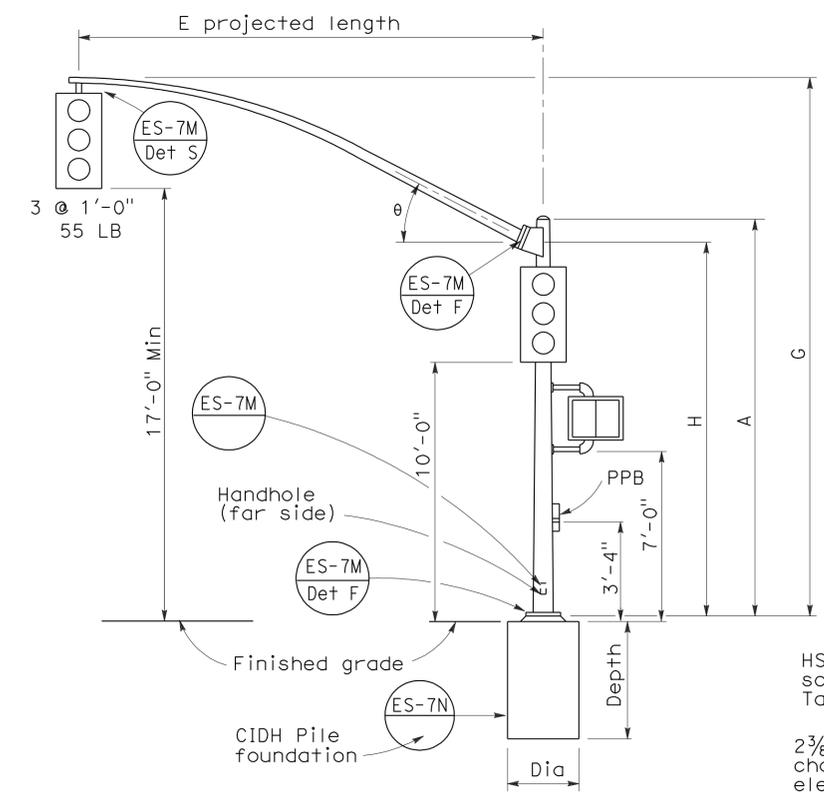
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD TYPE 1 STANDARD AND EQUIPMENT NUMBERING)

NO SCALE

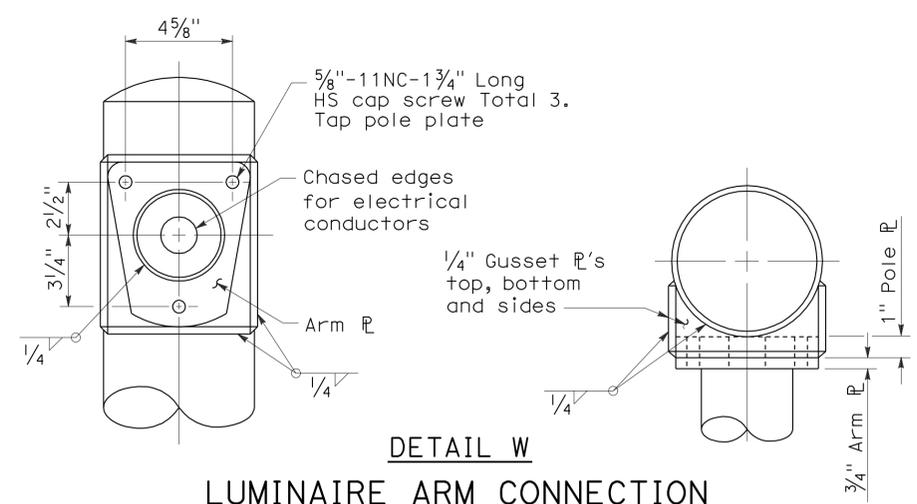
RSP ES-7B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-7B DATED MAY 1, 2006 - PAGE 438 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP ES-7B

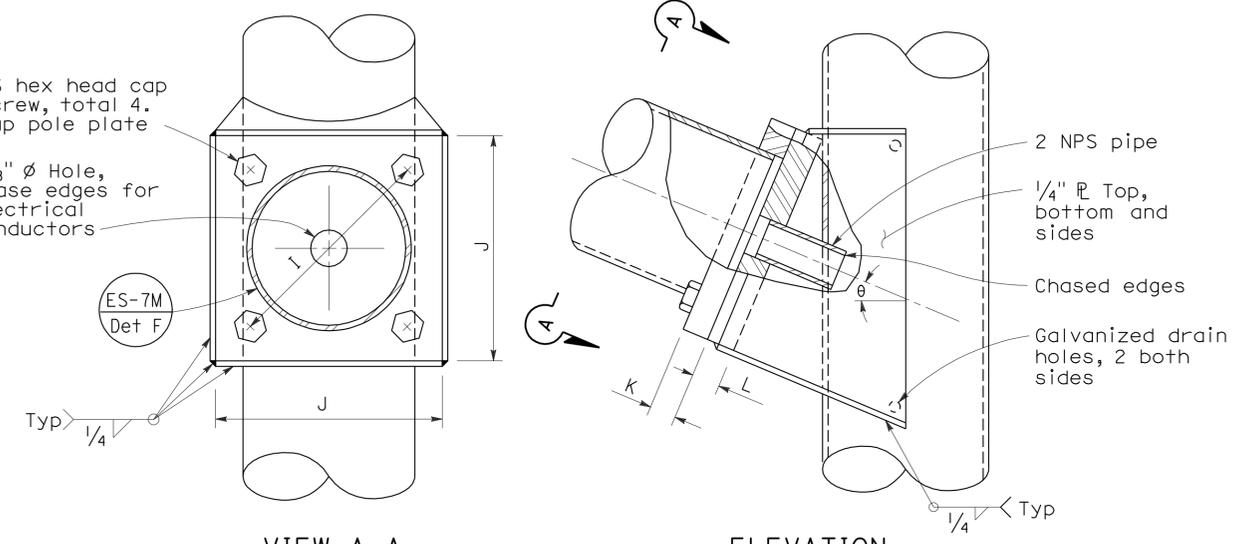
To accompany plans dated 11-28-11



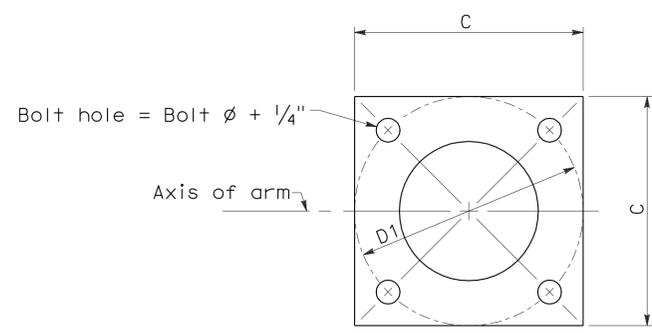
ELEVATION
TYPE 16-1-100, 18-1-100



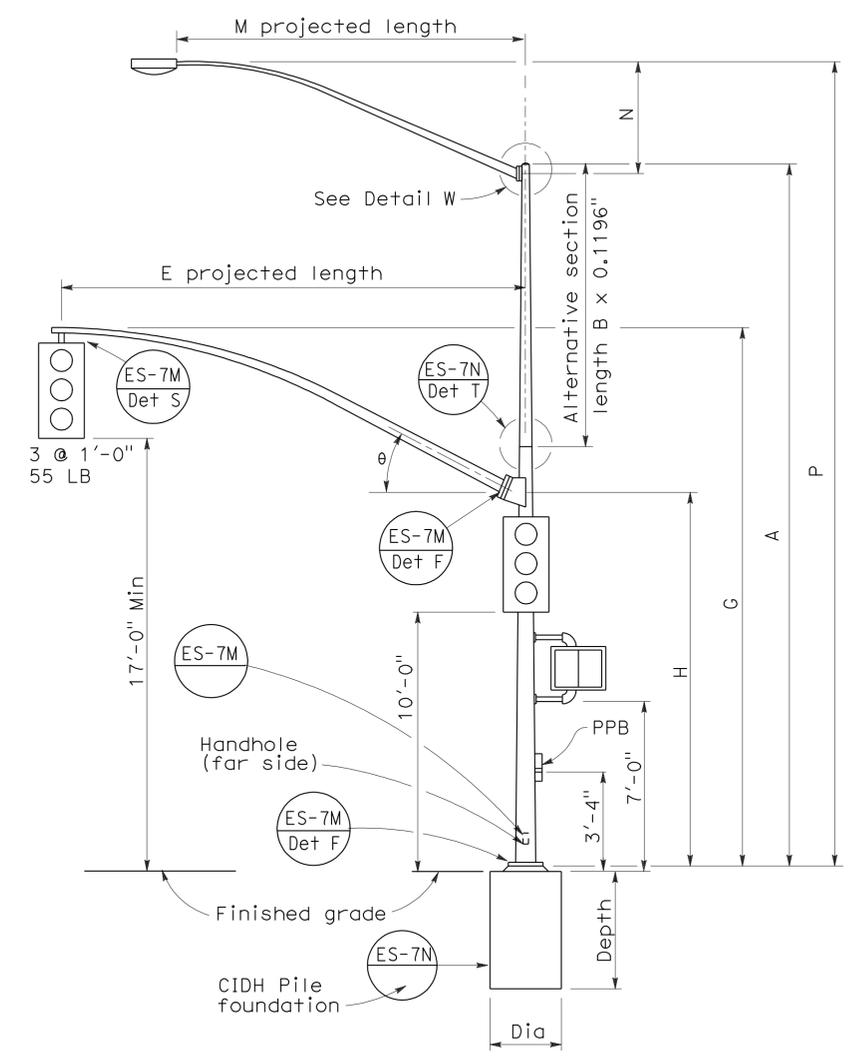
DETAIL W
LUMINAIRE ARM CONNECTION



VIEW A-A
SIGNAL ARM CONNECTION DETAILS



BASE PLATE



ELEVATION
TYPE 19-1-100, 19A-1-100

E Projected Length	G Mounting Height	H	Min OD At Pole	Thickness	I Bolt Circle	HS Cap Screws	J Plate size	K Arm Plate Thickness	L Pole Plate Thickness	θ
15'-0"	21'-8"±	17'-6"	7"	0.1196"	12"	1 1/4"-7NC-3"	1'-0"	1 1/4"	1 1/2"	23°
20'-0"	21'-8"±	7 1/8"								
25'-0"	22'-8"±	7 5/8"								
30'-0"	23'-0"±	8"								

M Projected Length	N Rise	Min OD at Pole	Thickness	P Mounting Height
6'-0"	2'-0"±	3 1/4"	0.1196"	30'-0" Pole
8'-0"	2'-6"±	3 1/2"		31'-6"±
10'-0"	3'-3"±	3 3/8"		32'-0"±
12'-0"	4'-3"±	3 7/8"		32'-9"±
15'-0"	4'-9"±	4 1/4"		33'-9"±

Pole Type	Load Case	Wind Velocity mph	POLE DATA					BASE PLATE DATA					CIDH PILE FOUNDATION						
			A Height	Min OD		Thickness	Alternative Section			C	D1 Bolt Circle	Thickness	Anchor Bolts		Luminaire Arm	Signal Arm	Diameter	Depth	Reinforced
				Base	Top		B Length	Bottom	Top				Size						
16-1-100	1	100	18'-6"	8 1/4"	0.1793"	None			1'-6"	1'-5 1/2"	1 1/4"	1 1/2" ø x 42" x 6"		None	15'-0"	2'-6"	7'-2"	Yes	
18-1-100			17'-0"	8 7/8"		None						None	20'-0"						
19-1-100			30'-0"	6 5/8"		10'-0"	8"	6 5/8"				6'-15' [12'-0"]	25'-0"						
19A-1-100			35'-0"	5 1/6"		15'-0"	5 1/6"	6'-15' [15'-0"]				30'-0"							

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(SIGNAL AND LIGHTING STANDARD
CASE 1 ARM LOADING
WIND VELOCITY = 100 MPH
ARM LENGTHS 15' TO 30')
 NO SCALE

RSP ES-7C DATED JUNE 15, 2007 SUPERSEDES STANDARD PLAN ES-7C DATED MAY 1, 2006 - PAGE 439 OF THE STANDARD PLANS BOOK DATED MAY 2006.

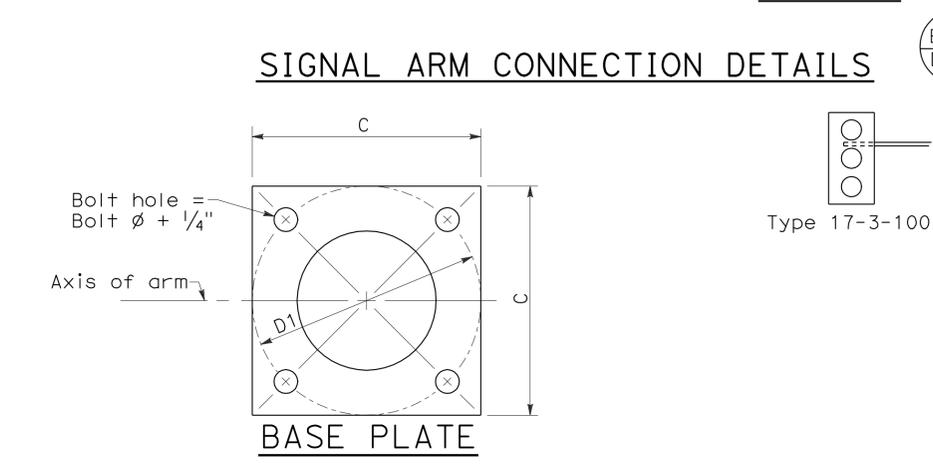
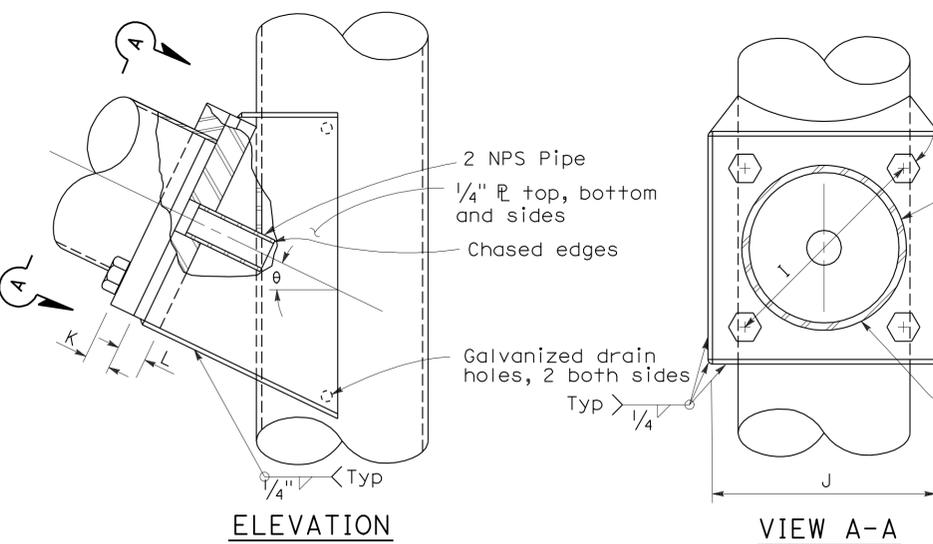
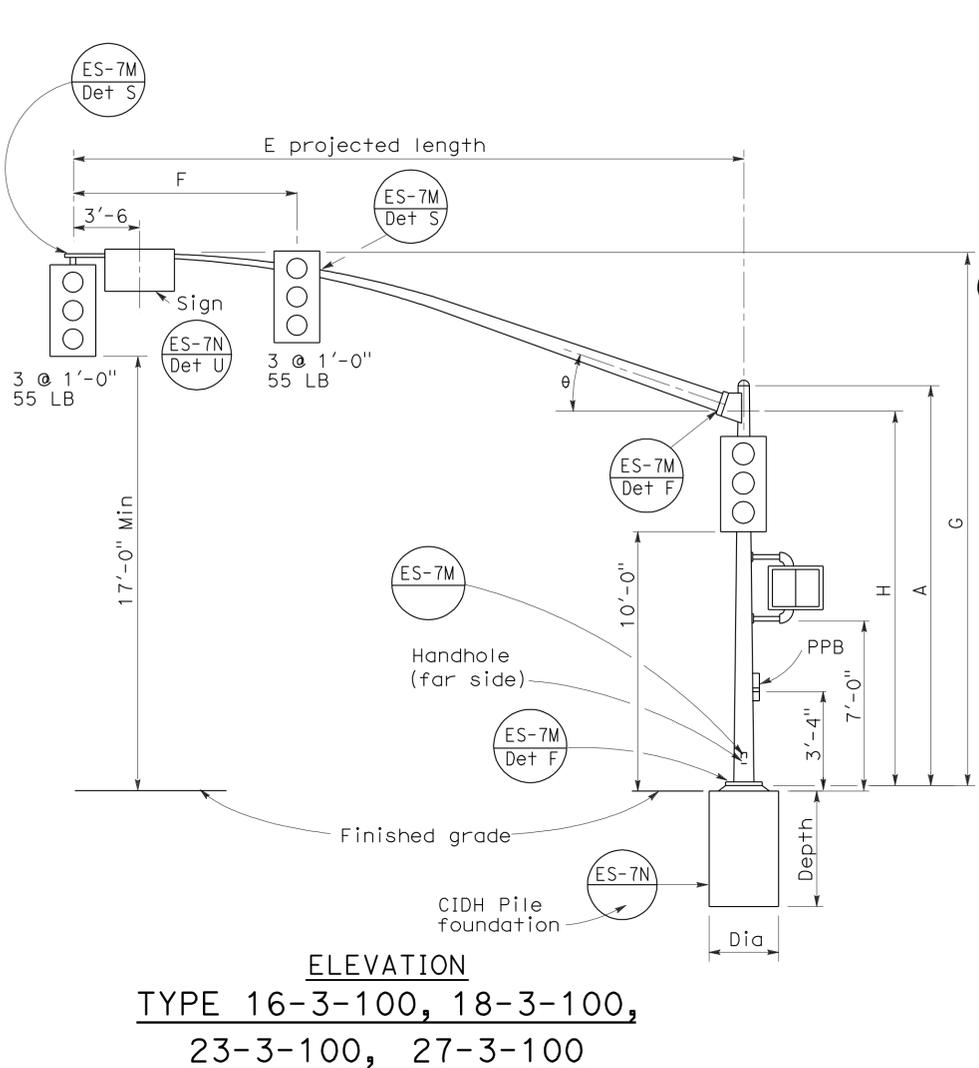
□ Indicates arm length to be used unless otherwise noted on plans.

2006 REVISED STANDARD PLAN RSP ES-7C

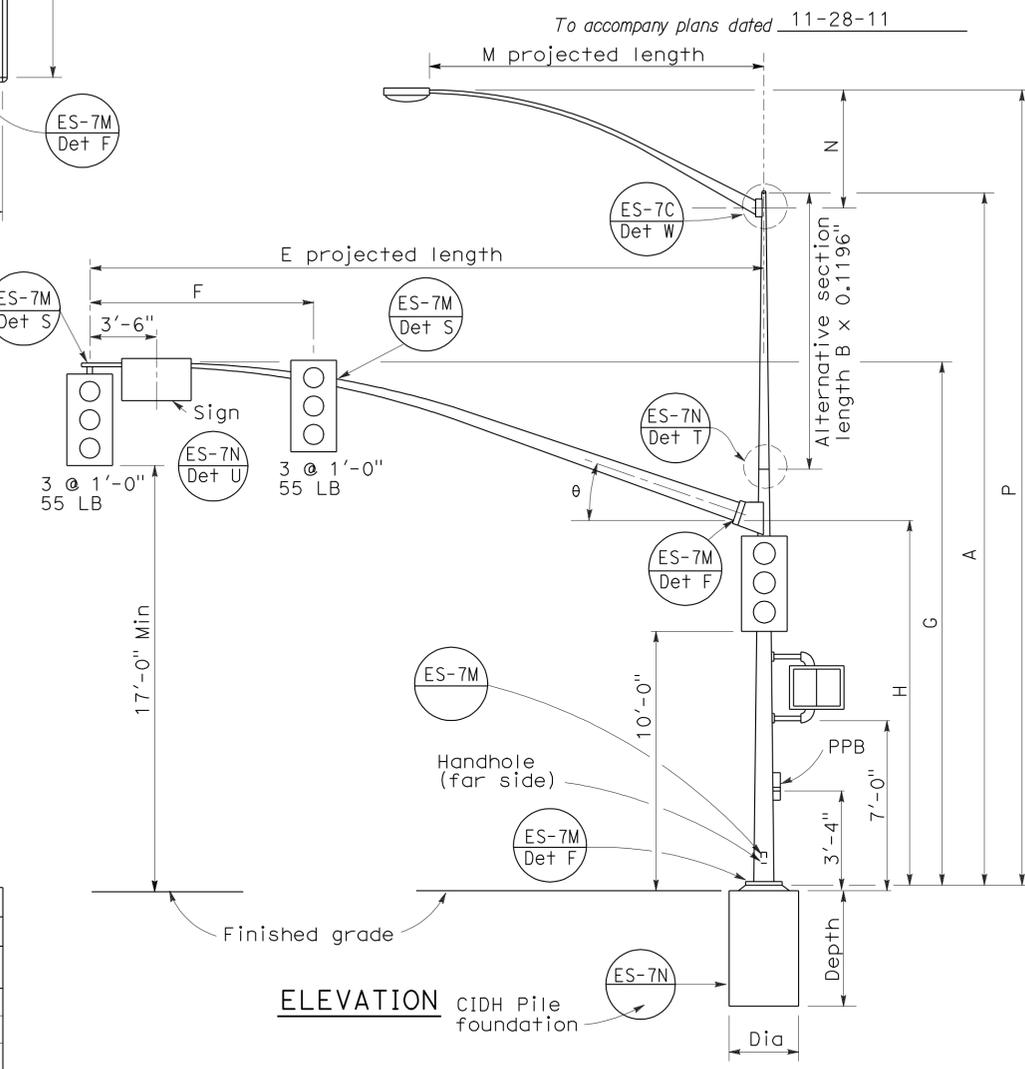
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	286	352

REGISTERED CIVIL ENGINEER
 June 30, 2006
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jeffrey B. Woody
 No. C41260
 Exp. 3-31-07
 CIVIL
 STATE OF CALIFORNIA



ELEVATION
 TYPE 16-3-100, 18-3-100,
 23-3-100, 27-3-100



ELEVATION
 TYPE 17-3-100, 24A-3-100,
 19-3-100, 26-3-100,
 19A-3-100, 26A-3-100, 24-3-100

E Projected Length	F Min Spacing	G Mounting Height	H	Min OD At Pole	Thickness	I Bolt Circle	HS Cap Screws	J Plate Size	K Arm R Thickness	L Pole R Thickness	θ
15'-0"	8'-0"	21'-8"±	17'-6"	6 5/8"	0.1793"	12"	1 1/4"-7NC-3"	1'-0"	1 1/4"	1 1/2"	23°
20'-0"		21'-8"±		7"							
25'-0"	12'-0"	22'-8"±		7 5/8"							
30'-0"				8"							
35'-0"	14'-0"	23'-0"±	16'-0"	8 3/4"	0.2391"	13"	1'-1"	1 1/2"	1 3/4"	21°	
40'-0"	15'-0"			9 3/8"							
45'-0"		23'-8"±		10 1/16"							

M Projected Length	N Rise	Min OD at Pole	Thickness	P Mounting Height Pole	P Mounting Height Pole
6'-0"	2'-0"±	3 1/4"	0.1196"	31'-6"±	36'-6"±
8'-0"	2'-6"±	3 1/2"		32'-0"±	37'-0"±
10'-0"	3'-3"±	3 7/8"	0.1196"	32'-9"±	37'-9"±
12'-0"	4'-3"±			33'-9"±	38'-9"±
15'-0"	4'-9"±	4 1/4"		34'-3"±	39'-3"±

Pole Type	Load Case	Wind Velocity mph	POLE DATA				BASE PLATE DATA				Luminaire Arm	Signal Arm	CIDH PILE FOUNDATION					
			A Height	Min OD		Thickness	Alternative Section			C			D1 Bolt Circle	Thickness	Anchor Bolts Size	Diameter	Depth	Reinforced
				Base	Top		B Length	Bottom	Top									
16-3-100	3	100	18'-6"	10 3/4"	8 1/4"	0.1793"	None	8"	7 5/8"	1'-6"	1'-5 1/2"	1 1/2"	2"ø x 42" x 6"	3'-0"	9'-0"	Yes		
17-3-100			30'-0"		6 5/8"		10'-0"		8"								7 5/8"	
18-3-100			17'-0"	8 7/16"	None													
19-3-100			30'-0"	7 7/8"	10'-0"	9 1/4"	7 7/8"											
19A-3-100			35'-0"	7 3/16"	15'-0"		7 3/16"											
23-3-100			17'-0"	9 5/8"	None													
24-3-100			30'-0"	7 7/8"	10'-0"	9 1/4"	7 7/8"											
24A-3-100			35'-0"	7 3/16"	15'-0"		7 3/16"											
26-3-100			30'-0"	8"	10'-0"		8"											
26A-3-100			35'-0"	7 5/16"	15'-0"	9 3/8"	7 5/16"											
27-3-100	17'-0"	9 3/4"	None															

□ Indicates arm length to be used unless otherwise noted on plans.

REVISED STANDARD PLAN RSP ES-7E

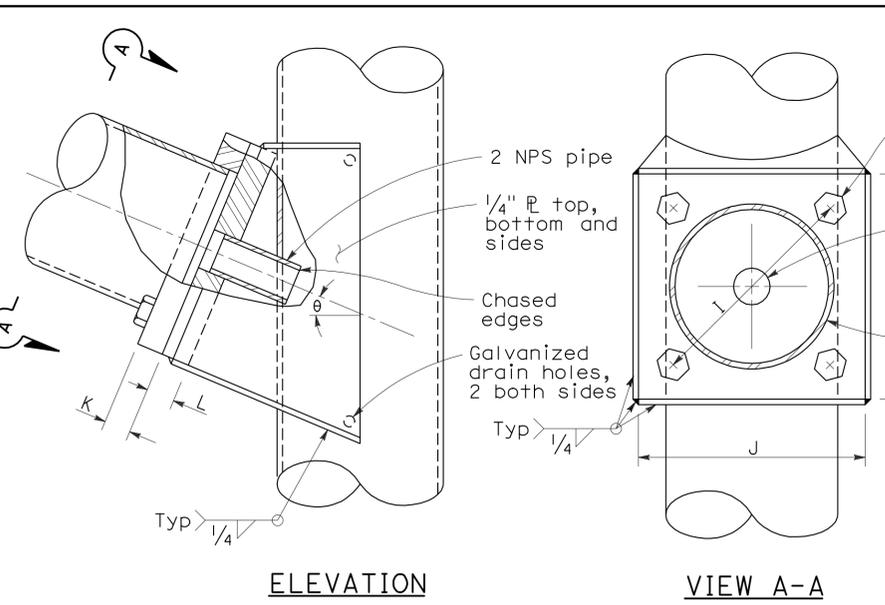
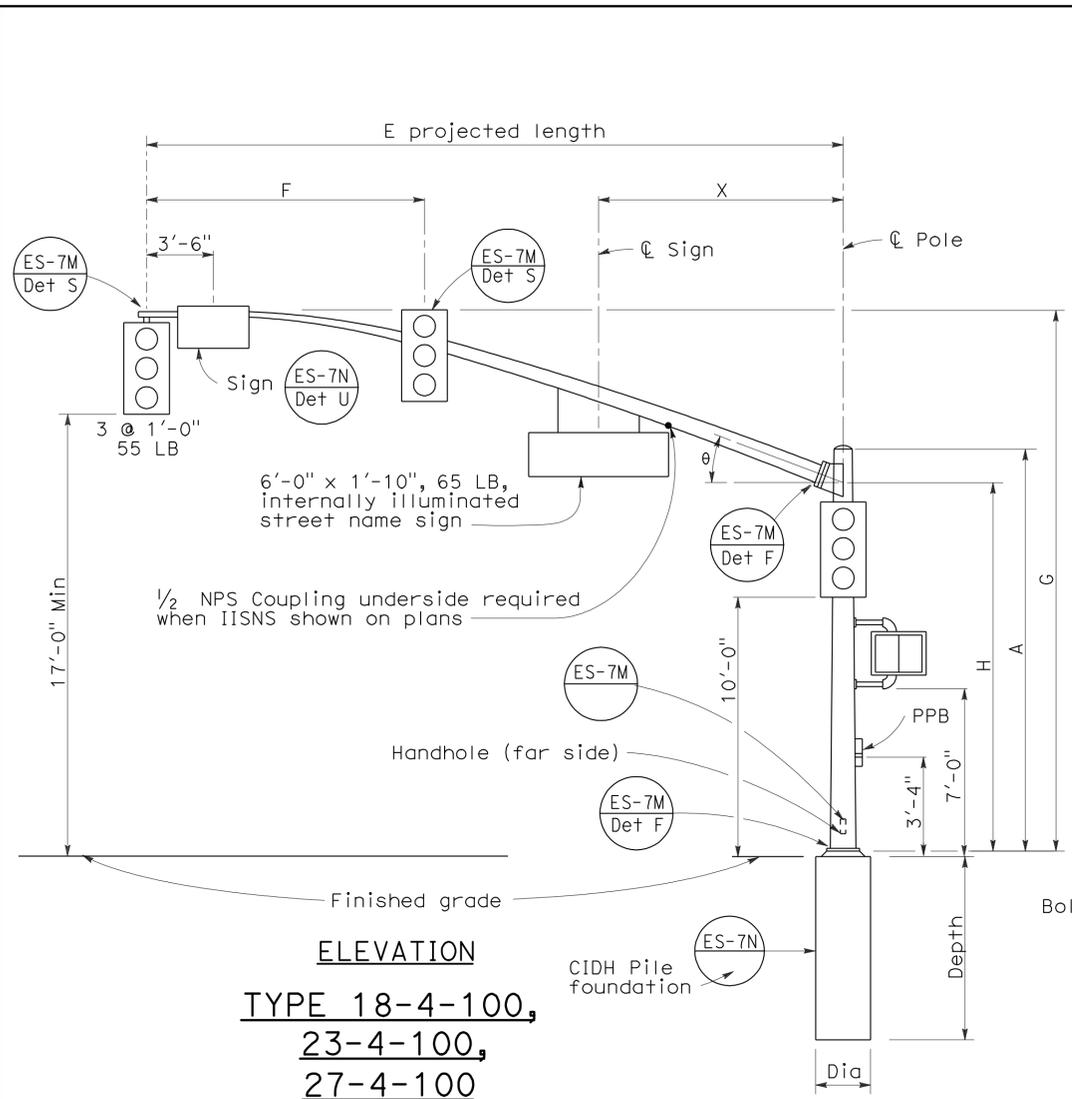
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SIGNAL AND LIGHTING STANDARD
 CASE 3 ARM LOADING
 WIND VELOCITY=100 MPH
 ARM LENGTHS 15' TO 45')**
 NO SCALE
 RSP ES-7E DATED JUNE 30, 2006 SUPERSEDES STANDARD PLAN DATED MAY 1, 2006 -
 PAGE 441 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP ES-7E

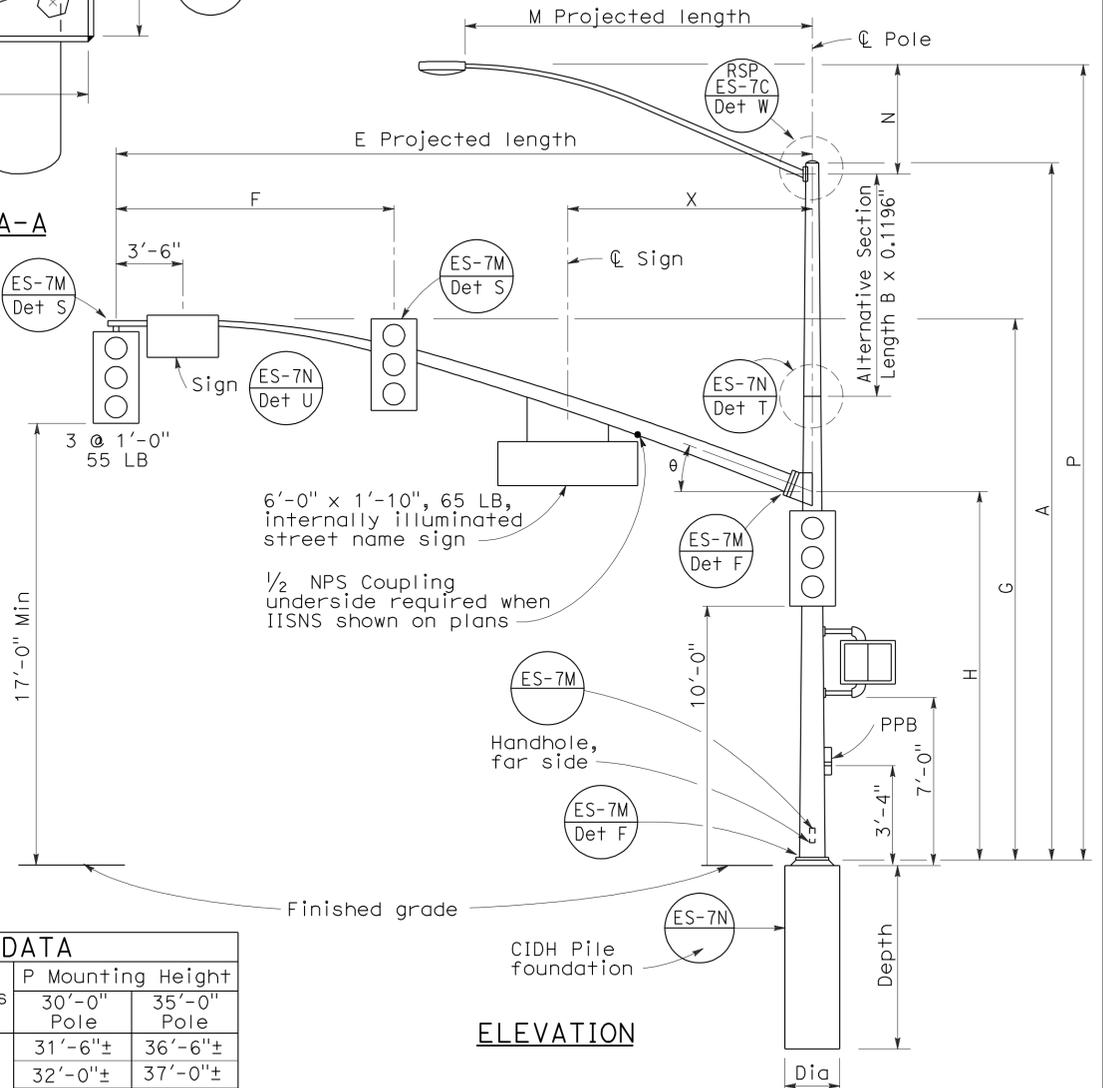
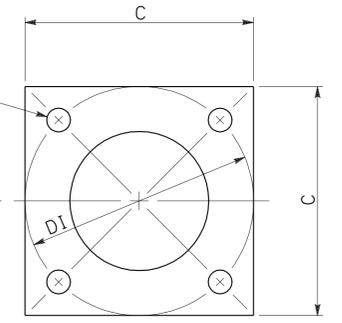
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	287	352

Stanley P. Johnson
 REGISTERED CIVIL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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To accompany plans dated 11-28-11



SIGNAL ARM CONNECTION DETAILS



ELEVATION

TYPE 19-4-100, 19A-4-100,
 24-4-100, 24A-4-100,
 26-4-100, 26A-4-100

E Projected Length	F Min Spacing	G Mounting Height	H	Min OD at Pole	Thickness	I Bolt Circle	HS Cap Screws	J Plate Size	K Arm P Thickness	L Pole P Thickness	θ	X Max
25'-0"	10'-0"	22'-8"±	16'-0"	7 5/16"	0.2391"	12"	1 1/4"-7NC-3"	1'-0"	1 1/4"	1 1/2"	23°	10'-6"
30'-0"	12'-0"	8"										
35'-0"	14'-0"	8 1/16"										
40'-0"	15'-0"	9 3/8"										
45'-0"	15'-0"	23'-8"±		10 1/4"		13 1/2"		1'-1 1/2"	1 1/2"	1 3/4"	15°	13'-0"

M Projected Length	N Rise	Min OD at Pole	Thickness	P Mounting Height	
				30'-0" Pole	35'-0" Pole
6'-0"	2'-0"±	3 1/4"	0.1196"	31'-6"±	36'-6"±
8'-0"	2'-6"±	3 1/2"		32'-0"±	37'-0"±
10'-0"	3'-3"±	3 7/8"		32'-9"±	37'-9"±
12'-0"	4'-3"±	4"		33'-9"±	38'-9"±
15'-0"	4'-9"±	4 1/4"		34'-3"±	39'-3"±

Pole Type	Load Case	Wind Velocity mph	POLE DATA						BASE PLATE DATA				Luminaire Arm	Signal Arm	CIDH PILE FOUNDATION				
			A Height	Min OD		Thickness	Alternative Section			C	DI Bolt Circle	Thickness			Anchor Bolts Size	Dia	Depth	Reinforced	
				Base	Top		B Length	Bottom	Top										
18-4-100	4	100	17'-0"	12"	0.2391"	None	9 3/8"	8"	1'-6"	1'-6"	1 1/2"	2" Ø x 42" x 6"	None	25'-0", 30'-0"	3'-0"	9'-0"	Yes		
19-4-100			30'-0"			8"												None	8"
19A-4-100			35'-0"			7 5/16"												15'-0"	7 5/16"
23-4-100			17'-0"			9"												None	
24-4-100			30'-0"	8"	10'-0"	8"													
24A-4-100			35'-0"	7 5/16"	15'-0"	7 5/16"													
26-4-100			30'-0"	8"	10'-0"	8 3/8"													
26A-4-100			35'-0"	7 5/16"	15'-0"	9 3/4"	7 1/16"												
27-4-100			17'-0"	9 3/4"	None														

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SIGNAL AND LIGHTING STANDARD
 CASE 4 ARM LOADING
 WIND VELOCITY=100 MPH
 ARM LENGTHS 25' TO 45')**
 NO SCALE

RSP ES-7F DATED OCTOBER 5, 2007 SUPERCEDES RSP ES-7F DATED NOVEMBER 17, 2006 AND STANDARD PLAN ES-7F DATED MAY 1, 2006 - PAGE 442 OF THE STANDARD PLANS BOOK DATED MAY 2006.

□ Indicates arm length to be used unless otherwise noted on plans.

REVISED STANDARD PLAN RSP ES-7F

2006 REVISED STANDARD PLAN RSP ES-7F

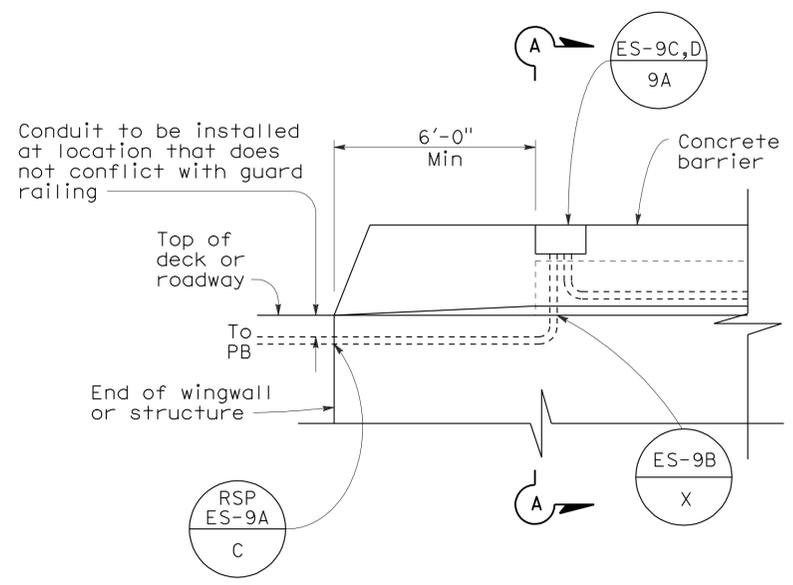
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	288	352

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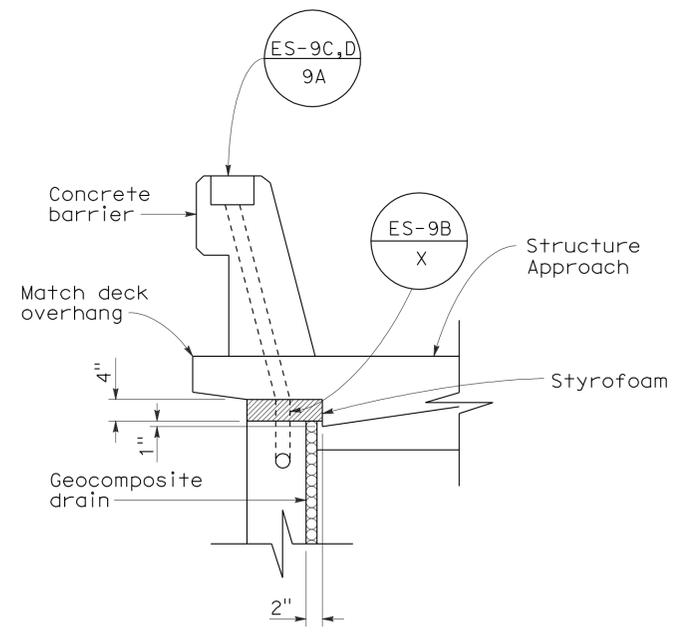
REGISTERED PROFESSIONAL ENGINEER
 Jeffery G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 11-28-11

2006 REVISED STANDARD PLAN RSP ES-9A

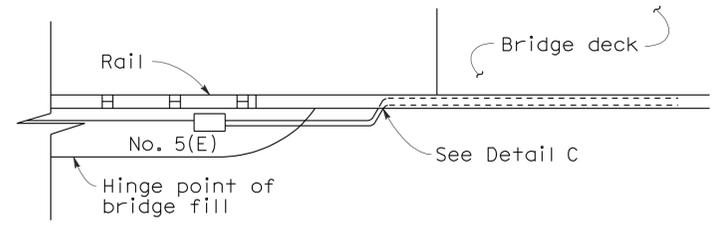


SIDEVIEW

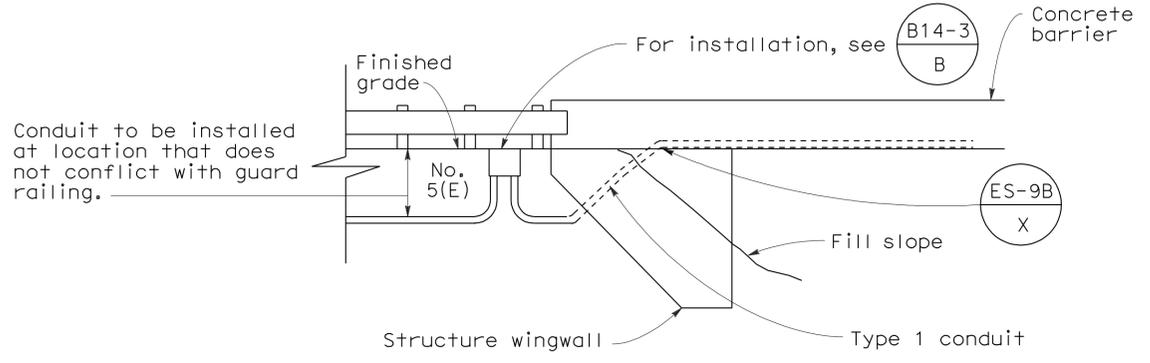


SECTION A-A

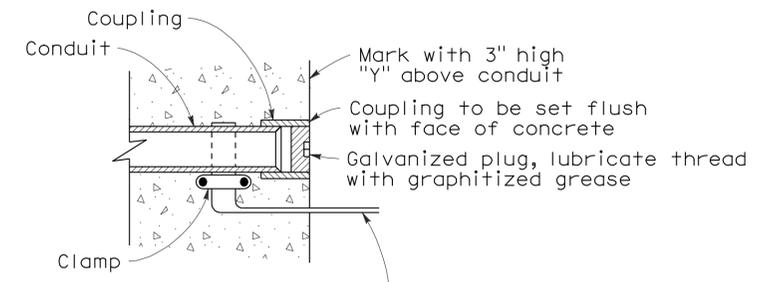
**DETAIL A
CONDUIT TERMINATION**



TOP VIEW



**SIDE VIEW
DETAIL I
CONDUIT TERMINATION**



**DETAIL C
CONDUIT TERMINATION**

Copper bonding strap install only at structure construction joint, extend at least 6" from face of concrete

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (ELECTRICAL DETAILS STRUCTURE INSTALLATIONS)

NO SCALE

RSP ES-9A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-9A
DATED MAY 1, 2006 - PAGE 454 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-9A

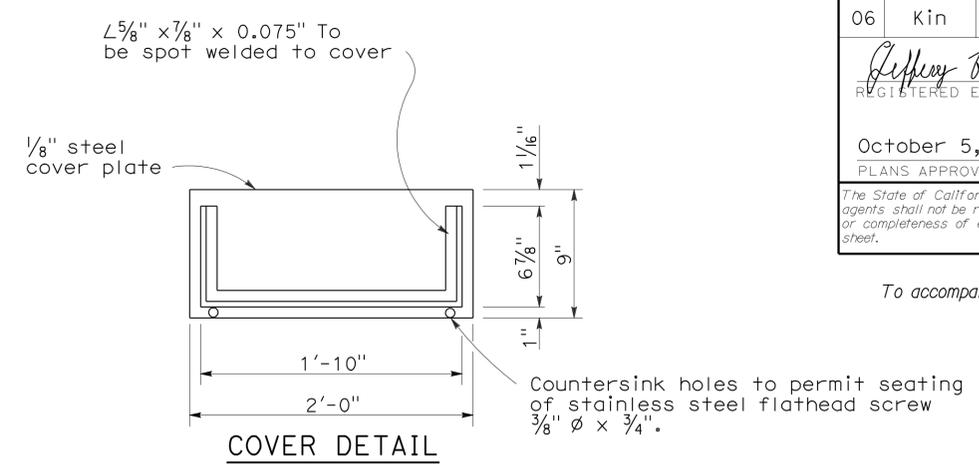
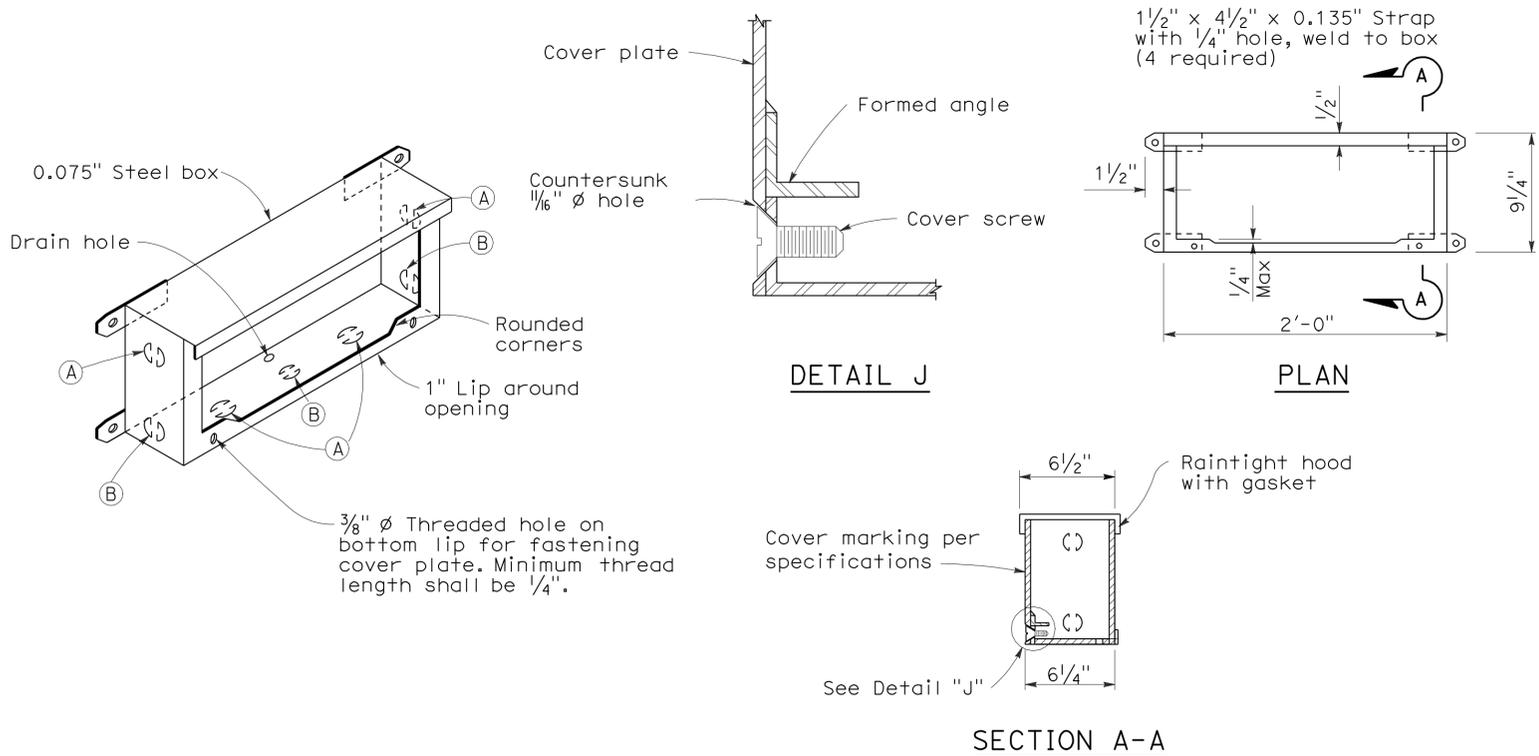
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	289	352

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

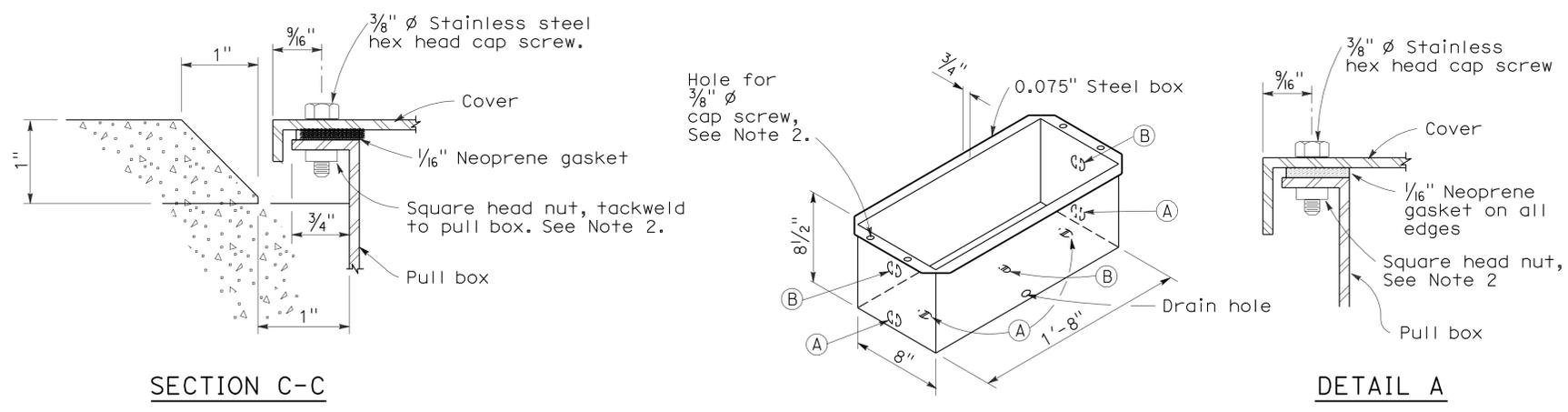
October 5, 2007
 PLANS APPROVAL DATE

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

To accompany plans dated 11-28-11

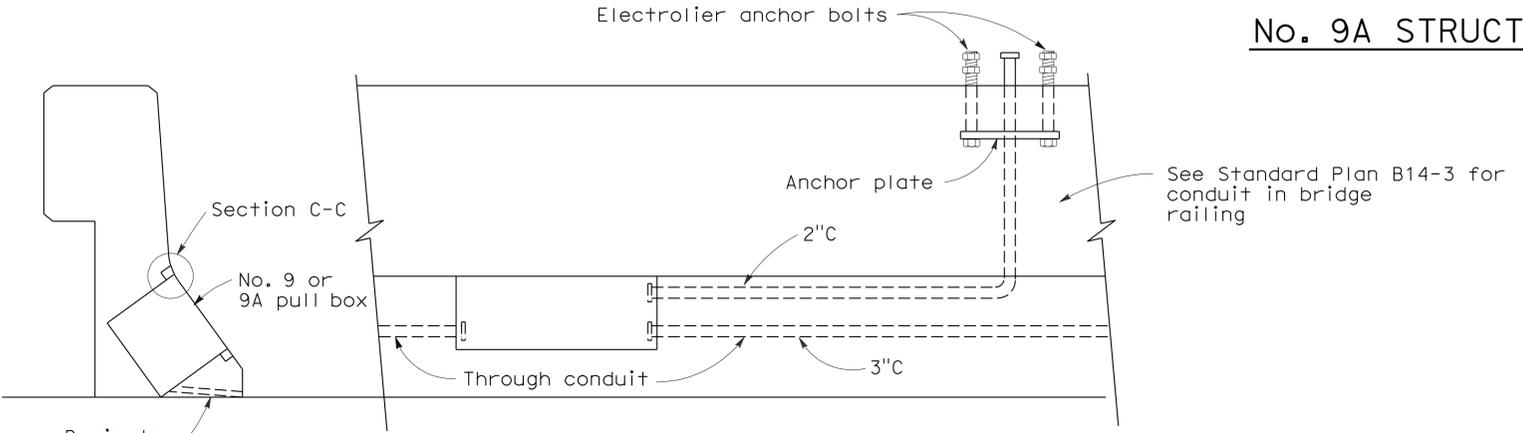


No. 9 STRUCTURE PULL BOX



- NOTES:** No. 9 and 9A Pull Box
- Corner joints shall be lapped and secured by spot welding or riveting.
 - Where cap screws are used to attach cover to box, either of the following methods of providing adequate threading may be used:
 - Tack weld square nut to bottom of flange (Total 4), or
 - Tack weld a 1/4" x 5/8" x 8" bar beneath flange (Total 2).
 - Pound knockouts flat after punching.
 - Multiple size knockouts shall not be permitted.
 - Pull box covers shall be marked as shown on Standard Plan ES-8.

No. 9A STRUCTURE PULL BOX



INSTALLATION IN SLOPING PARAPETS

For reinforcement in area of electrolier, see railing sheets. For electrolier anchor bolts, see Standard Plan ES-6B.

- KNOCKOUT SCHEDULE**
No. 9 AND 9A PULL BOX
- (A) 2"C, 1 each end, 2 on bottom.
 - (B) 3"C, 1 each end, 1 on bottom.

ELECTRICAL SYSTEMS (ELECTRICAL DETAILS STRUCTURE INSTALLATIONS)

NO SCALE
 RSP ES-9C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-9C DATED MAY 1, 2006 - PAGE 456 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP ES-9C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	290	352

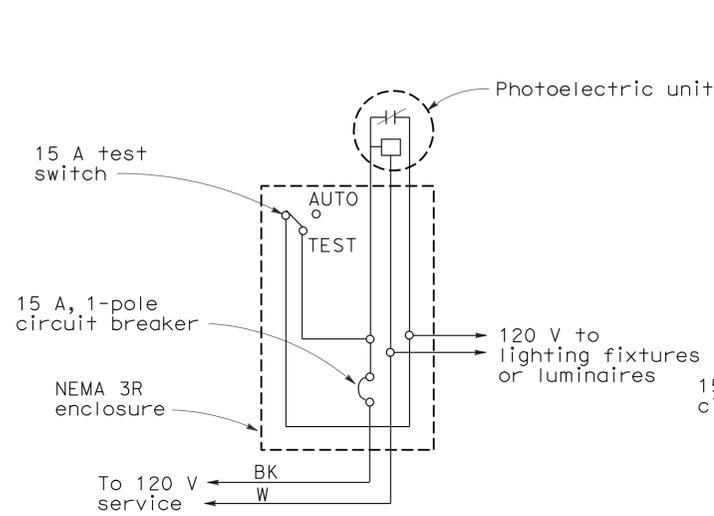
Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

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

NOTES: (FOR LIGHTING AND SIGN ILLUMINATION CONTROL)

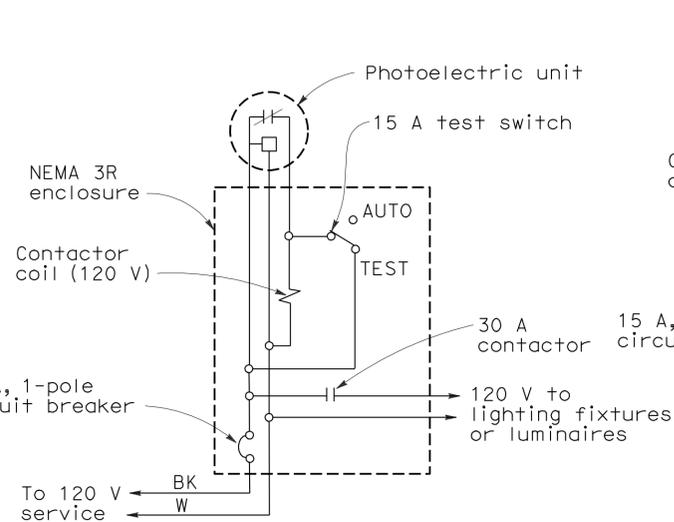
1. The ballast voltages of lighting fixtures and luminaires shall match line service voltages.
2. Voltage rating of photoelectric controls shall conform to the service voltage indicated on the plans.
3. Terminal strip shall be provided for wiring to fixtures.
4. Type SC1A, SC2A, SC3A controls are similar to Types SC1, SC2 and SC3 controls respectively except test switch and wiring are not required.

To accompany plans dated 11-28-11



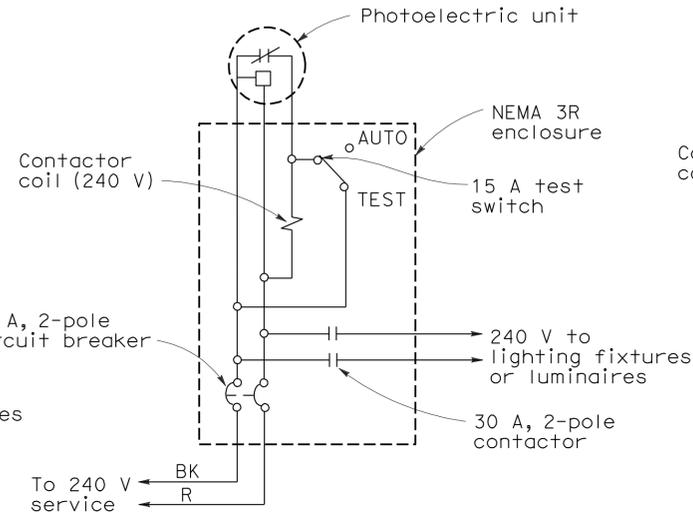
TYPE LC1 CONTROL

For 120 V unswitched circuit with no more than 800 W load.



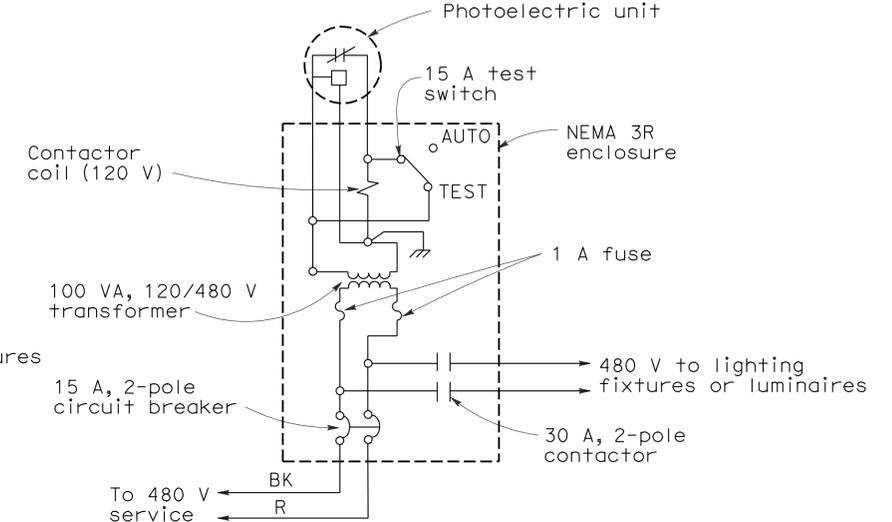
TYPE LC2 CONTROL

For 120 V unswitched circuit



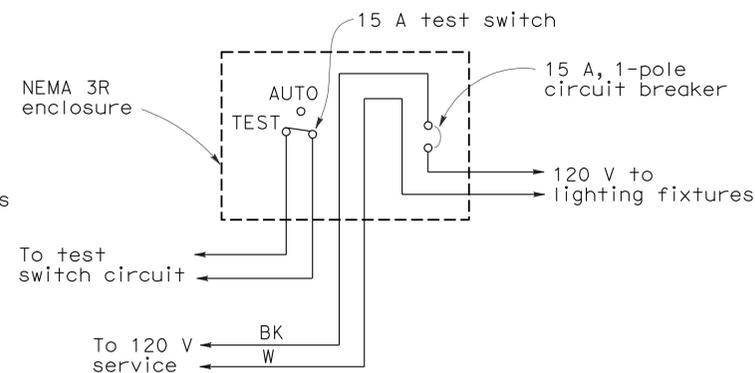
TYPE LC3 CONTROL

For 240 V and 480 V unswitched circuits



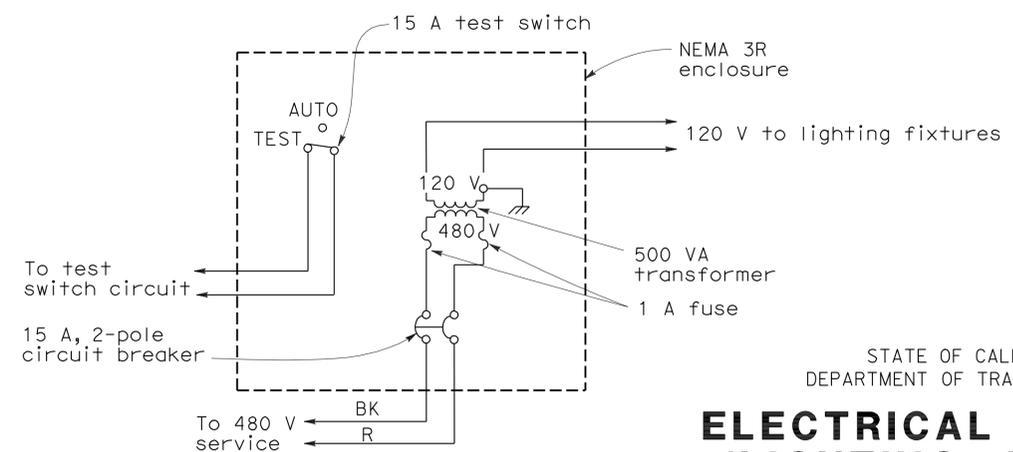
TYPE SC1 CONTROL

For 240 V or 480 V switched circuit, see Note 4 for Type SC1A



TYPE SC2 CONTROL

For 120 V switched circuit, see Note 4 for Type SC2A



TYPE SC3 CONTROL

For 480 V switched sign circuit, see Note 4 for Type SC3A

ELECTRICAL SYSTEMS (LIGHTING AND SIGN ILLUMINATION CONTROL)

NO SCALE

RSP ES-15D DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-15D DATED MAY 1, 2006 - PAGE 472 OF THE STANDARD PLANS BOOK DATED MAY 2006.

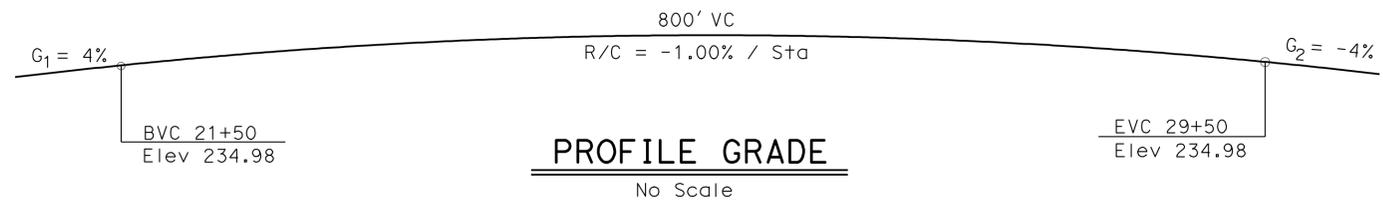
REVISED STANDARD PLAN RSP ES-15D

2006 REVISED STANDARD PLAN RSP ES-15D

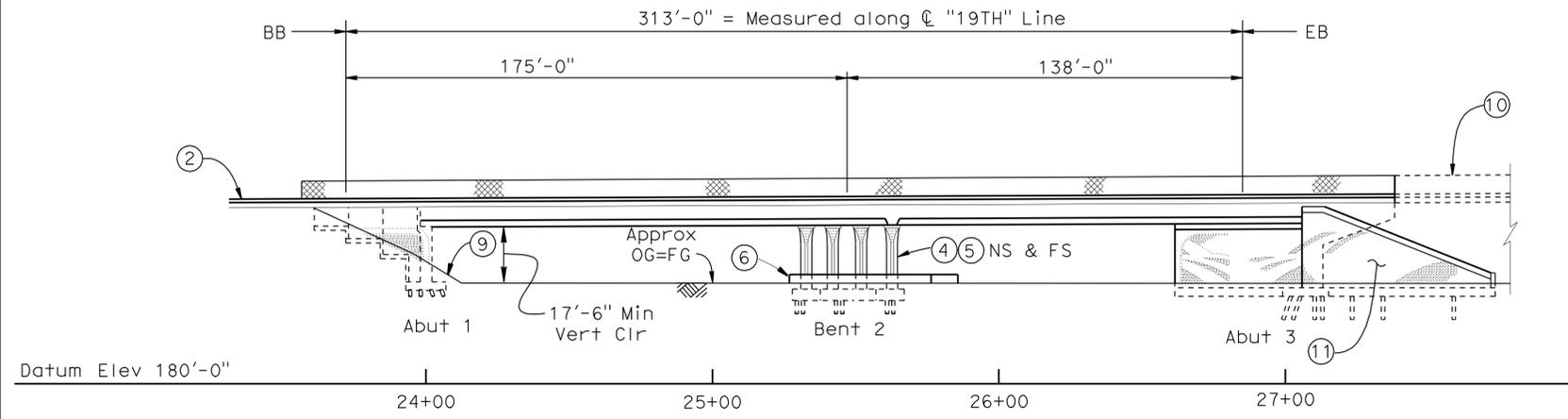
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	291	352

Elijah Hall
REGISTERED CIVIL ENGINEER DATE
11-28-11
PLANS APPROVAL DATE
No. C65558
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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- Notes:
- ① Chain Link Railing, Type 6.
 - ② Conc Barrier, Type 26 (Mod).
 - ③ CIP/PS Concrete Box Girder.
 - ④ Paint "Br. No. 45-0104".
 - ⑤ Paint "19th Ave Overcrossing".
 - ⑥ Conc Barrier, Type 60E, see "Road Plans".
 - ⑦ Approach Slab, Type N(30S).
 - ⑧ Future Utility Opening.
 - ⑨ Slope Paving (Concrete) (Brick and Smooth Surface).
 - ⑩ 19th Avenue Overcrossing MSE.
 - ⑪ Retaining Wall No. 1.
 - ⑫ Deck Access Opening.
 - ⑬ 2"C for Interconnect, see "Electrical Plans".
 - ⑭ 3"C MT, see "Electrical Plans".
 - ⑮ 2"C MT, see "Electrical Plans".
 - ⑯ 2"C for Signal Conduit, see "Electrical Plans".
 - ⑰ 2"C For City Lighting Conduit, see "Electrical Plans".



ELEVATION
1"=30'

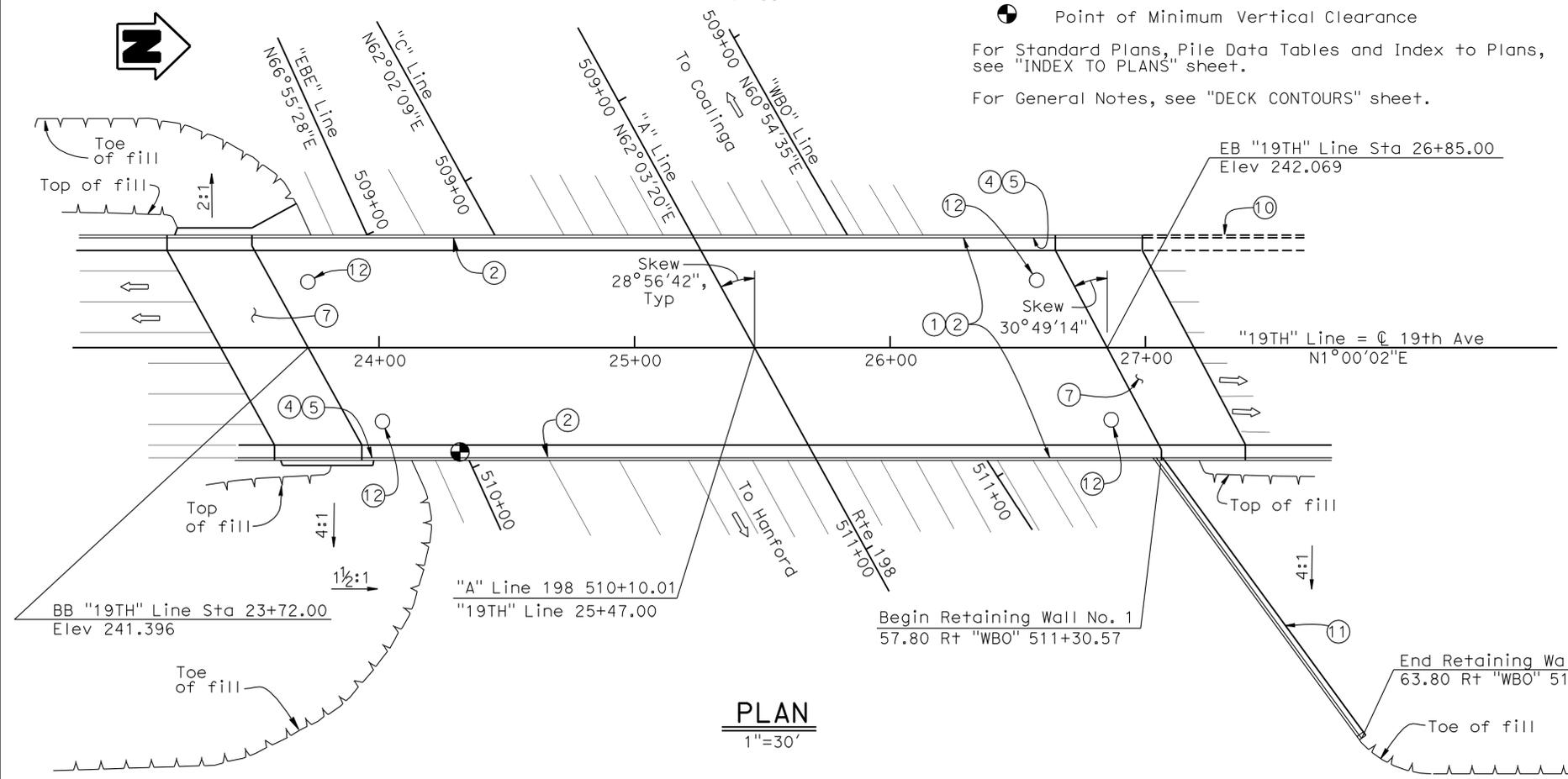
Legend:

➔ Direction of Traffic

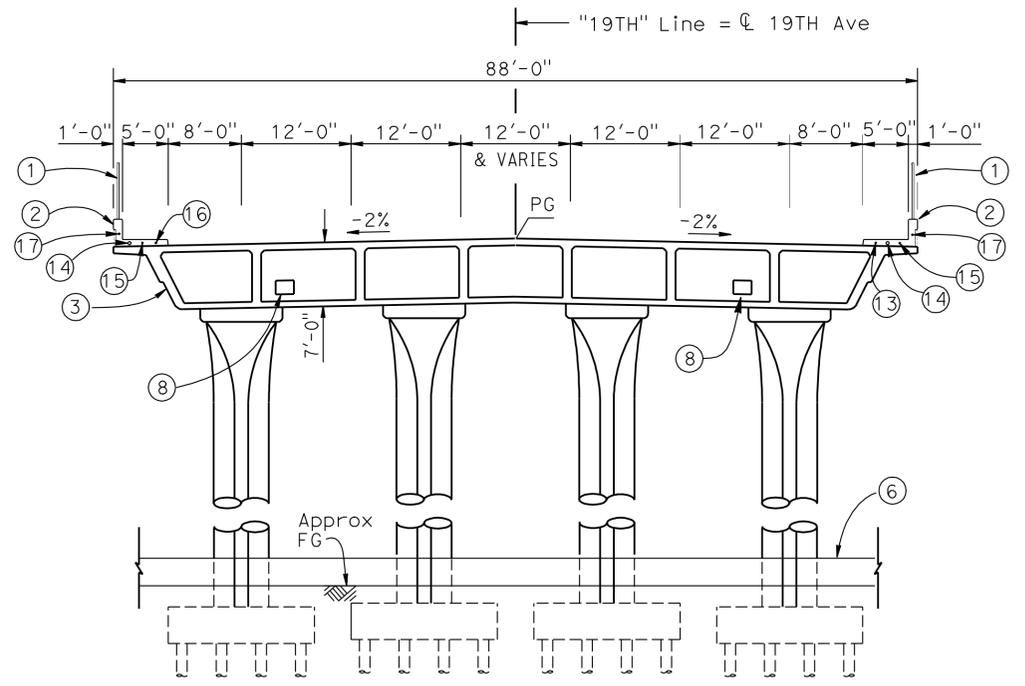
⊙ Point of Minimum Vertical Clearance

For Standard Plans, Pile Data Tables and Index to Plans, see "INDEX TO PLANS" sheet.

For General Notes, see "DECK CONTOURS" sheet.



PLAN
1"=30'



TYPICAL SECTION
1"=10'

X DESIGN ENGINEER	DESIGN	BY Elijah Hall	CHECKED Rene Coria	LOAD RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 17	BRIDGE NO.	19TH AVENUE OVERCROSSING	
	DETAILS	BY G. Leung	CHECKED Rene Coria	LAYOUT	BY Elijah Hall			CHECKED Rene Coria		45-0104
	QUANTITIES	BY Ramon Reyes	CHECKED Craig Schellenger	SPECIFICATIONS	BY Mary Kopsa			PLANS AND SPECS COMPARED Mary Kopsa		POST MILE

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 06
EA 325501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

10-18-11	11-24-10	03-15-11	03-21-11	04-27-11	05-03-11	05-04-11	05-25-11	08-31-11	9-21-11
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SHEET 1 OF 37

FILE => 45-0104-a-gp.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	kin	198	R8.9/R10.1	292	352

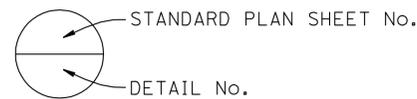
Elijah Hall
REGISTERED CIVIL ENGINEER DATE
11-28-11
PLANS APPROVAL DATE
No. C65558
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA
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RETAINING WALL LOCATION	DESIGN H	PILE TYPE	NOMINAL RESISTANCE COMPRESSION (kips)	SPECIFIED TIP ELEVATION (ft)
ABUTMENT 1 WEST	4	CLASS 90 ALT. X	180	172
ABUTMENT 1 WEST	8	CLASS 90 ALT. X	180	172
ABUTMENT 1 WEST	16	CLASS 90 ALT. X	180	172
ABUTMENT 1 EAST	4	CLASS 90 ALT. X	180	172
ABUTMENT 1 EAST	10	CLASS 90 ALT. X	180	172
ABUTMENT 1 EAST	16	CLASS 90 ALT. X	180	172
ABUTMENT 3 EAST	30	CLASS 90 ALT. X	180	177
ABUTMENT 3 EAST	26	CLASS 90 ALT. X	180	177
ABUTMENT 3 EAST	22	CLASS 90 ALT. X	180	178
ABUTMENT 3 EAST	18	CLASS 90 ALT. X	180	178
ABUTMENT 3 EAST	14	CLASS 90 ALT. X	180	178
ABUTMENT 3 EAST	6	CLASS 90 ALT. X	180	179
ABUTMENT 3 EAST	4	CLASS 90 ALT. X	180	179

Note: Specified tip elevations are controlled by compression.

STANDARD PLANS, DATED MAY 2006

A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-5	PILE DETAILS - CLASS 90 AND CLASS 140
RSP B2-8	PILE DETAILS - CLASS 200
B3-1	RETAINING WALL TYPE 1- H = 4' THROUGH 30'
B3-8	RETAINING WALL DETAILS No. 1
B3-9	RETAINING WALL DETAILS No. 2
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-1	BOX GIRDER DETAIL
B7-10	UTILITY OPENING - BOX GIRDER
B7-11	UTILITY DETAILS
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-47	CABLE RAILING
B11-54	CONCRETE BARRIER TYPE 26



LOCATION	PILE TYPE	NOMINAL RESISTANCE (kips)		DESIGN TIP ELEVATION (ft)	SPECIFIED TIP ELEVATION (ft)	NOMINAL DRIVING RESISTANCE (kip)
		COMPRESSION	TENSION			
ABUT 1	CLASS 140 ALT. X	240	0	(a) 144 (c) 149	144	240
BENT 2 INTERIOR	CLASS 200 ALT. X	260	0	(a) 168 (c) 144	144	320
BENT 2 EXTERIOR	CLASS 200 ALT. X	340	0	(a) 140 (c) 140	140	340
ABUT 3	CLASS 140 ALT. X	240	0	(a) 144 (c) 147	144	240

Notes:

- Design tip elevations for abutments and bent are controlled by: (a) Compression and (c) Settlement.
- The specified tip elevation shall not be raised above the design tip elevation for settlement.

INDEX TO PLANS

SHEET No.	SHEET TITLE
1.	GENERAL PLAN
2.	INDEX TO PLANS
3.	DECK CONTOURS
4.	FOUNDATION PLAN No. 1
5.	FOUNDATION PLAN No. 2
6.	ABUTMENT 1 LAYOUT
7.	ABUTMENT 3 LAYOUT
8.	ABUTMENT DETAILS No. 1
9.	ABUTMENT DETAILS No. 2
10.	ABUTMENT DETAILS No. 3
11.	RETAINING WALL NO. 1 LAYOUT
12.	RETAINING WALL NO. 1 DETAILS
13.	BENT DETAILS No. 1
14.	BENT DETAILS No. 2
15.	BENT DETAILS No. 3
16.	TYPICAL SECTION
17.	GIRDER LAYOUT
18.	GIRDER REINFORCEMENT
19.	STRUCTURE APPROACH TYPE N(30S)
20.	STRUCTURE APPROACH DRAINAGE DETAILS
21.	SLOPE PAVING-FULL SLOPE
22.	CHAIN LINK RAILING TYPE 6
23.	ARCHITECTURAL DETAILS No.1
24.	ARCHITECTURAL DETAILS No.2
25.	ARCHITECTURAL DETAILS No.3
26.	ARCHITECTURAL DETAILS No.4
27.	ARCHITECTURAL DETAILS No.5
28.	LOG OF TEST BORINGS 1 OF 6
29.	LOG OF TEST BORINGS 2 OF 6
30.	LOG OF TEST BORINGS 3 OF 6
31.	LOG OF TEST BORINGS 4 OF 6
32.	LOG OF TEST BORINGS 5 OF 6
33.	LOG OF TEST BORINGS 6 OF 6
34.	RETAINING WALL No. 1
35.	LOG OF TEST BORING 1 OF 4
36.	RETAINING WALL No. 1
36.	LOG OF TEST BORING 2 OF 4
37.	RETAINING WALL No. 1
37.	LOG OF TEST BORING 3 OF 4
37.	RETAINING WALL No. 1
37.	LOG OF TEST BORING 4 OF 4

19TH AVENUE OVERCROSSING
QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	1,697	CY
STRUCTURE EXCAVATION (RETAINING WALL)	415	CY
STRUCTURE BACKFILL (BRIDGE)	2,148	CY
STRUCTURE BACKFILL (RETAINING WALL)	783	CY
PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	60	CY
FURNISH PILING (CLASS 90) (ALTERNATIVE X)	3,391	LF
DRIVE PILE (CLASS 90) (ALTERNATIVE X)	87	EA
FURNISH PILING (CLASS 140) (ALTERNATIVE X)	14,431	LF
DRIVE PILE (CLASS 140) (ALTERNATIVE X)	140	EA
FURNISH PILING (CLASS 200) (ALTERNATIVE X)	4,048	LF
DRIVE PILE (CLASS 200) (ALTERNATIVE X)	64	EA
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE FOOTING	614	CY
STRUCTURAL CONCRETE, BRIDGE	2,985	CY
STRUCTURAL CONCRETE, RETAINING WALL	249	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	196	CY
BRICK TEXTURE	358	SQFT
FORMED RELIEF TEXTURE	3,565	SQFT
ANTI-GRAFFITI COATING	6,095	SQFT
JOINT SEAL (MR 2")	201	LF
BAR REINFORCING STEEL (BRIDGE)	681,202	LB
BAR REINFORCING STEEL (RETAINING WALL)	44,700	LB
PREPARE AND PAINT CONCRETE	6,095	SQFT
8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	35	LF
24" WELDED STEEL PIPE CASING (BRIDGE)	182	LF
SLOPE PAVING (CONCRETE) (BRICK AND SMOOTH SURFACE)	38	CY
MINOR CONCRETE (GUTTER)	133	LF
MISCELLANEOUS METAL (BRIDGE)	1,064	LB
CHAIN LINK RAILING (TYPE 6)	748	LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	748	LF
CABLE RAILING	124	LF

DESIGN	BY Elijah Hall	CHECKED Rene Coria
DETAILS	BY G. Leung, P. Silva	CHECKED Rene Coria
QUANTITIES	BY Ramon Reyes	CHECKED Craig Schellenger

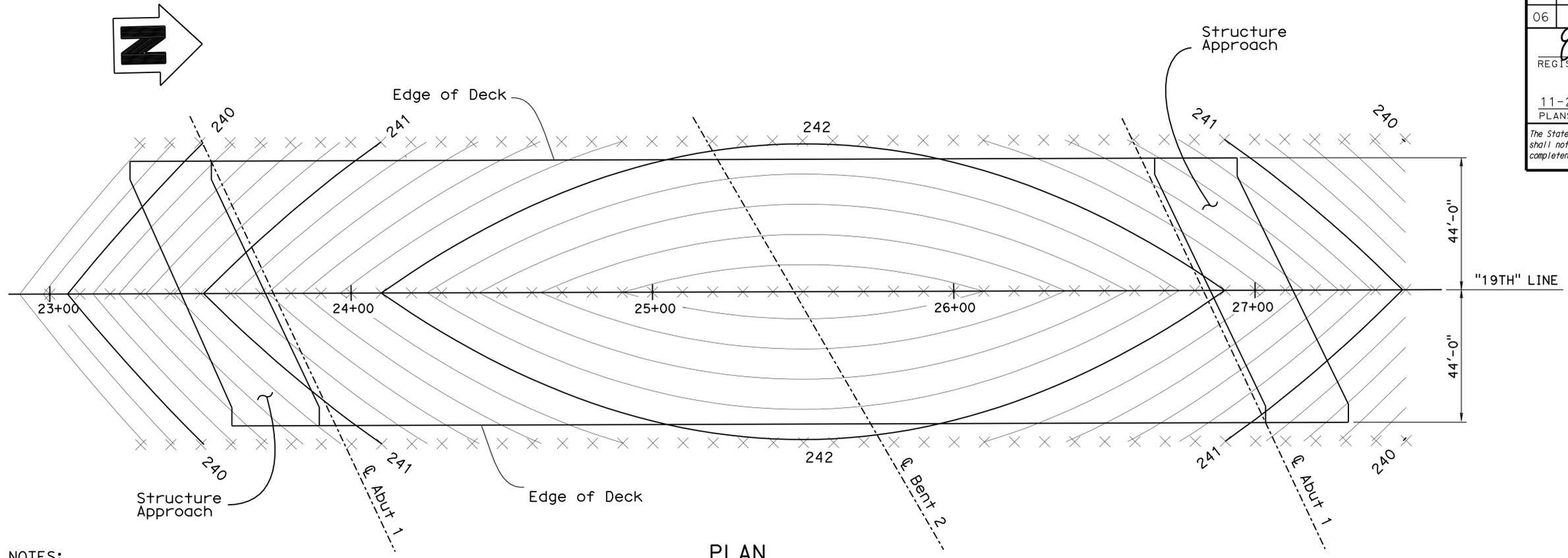
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 17

BRIDGE No.	45-0104
POST MILE	R8.9/R10.1

19TH AVENUE OVERCROSSING
INDEX TO PLANS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	kin	198	R8.9/R10.1	293	352
 REGISTERED CIVIL ENGINEER DATE _____					
11-28-11 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. X = 10' intervals along station line
2. Contours do not include camber
3. Contour interval = 0.2'

PLAN
1" = 20'

GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
AASHTO LRFD Bridge Design Specifications, fourth edition with the California Amendments, preface date; December 2008 except that Concrete Barriers, and Wingwalls are designed using Bridge Design Specifications April 2000 (1996 AASHTO w/Revisions by Caltrans).

SEISMIC DESIGN:
Caltrans Seismic Design Criteria (SDC), Version 1.4 dated June 2006.

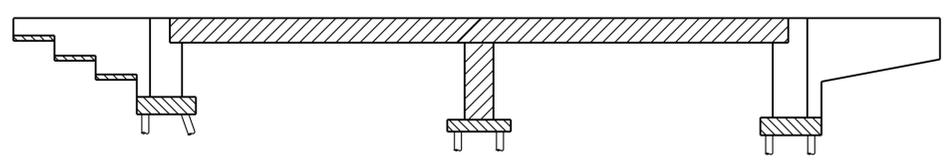
DEAD LOAD:
Includes 35 psf for future wearing surface.

LIVE LOADING:
HL93 and permit design load.

SEISMIC LOADING:
SDC ARS CURVE for soil profile Type D; MCE Magnitude = 7.0, Peak Bedrock Acceleration = 0.2g.

REINFORCED CONCRETE:
 $f_y = 60$ ksi
 $f'_c = 3.6$ ksi (except as shown on "CONCRETE STRENGTH AND TYPE LIMITS" on "DECK CONTOURS" sheet).
 $n = 8$

PRESTRESSED CONCRETE:
See "Prestressing Notes" on "Girder Layout" sheet.



-  (4000 psi at 28 days) Structural Concrete, Bridge
-  Structural Concrete, Bridge
-  Structural Concrete, Bridge Footing

CONCRETE STRENGTH AND TYPE LIMITS
No Scale

DESIGN	BY Elijah Hall	CHECKED Rene Coria
DETAILS	BY G. Leung, P. Silva	CHECKED Rene Coria
QUANTITIES	BY Ramon Reyes	CHECKED Craig Schellenger

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 17

BRIDGE NO.	45-0104
POST MILE	R8.9/R10.1

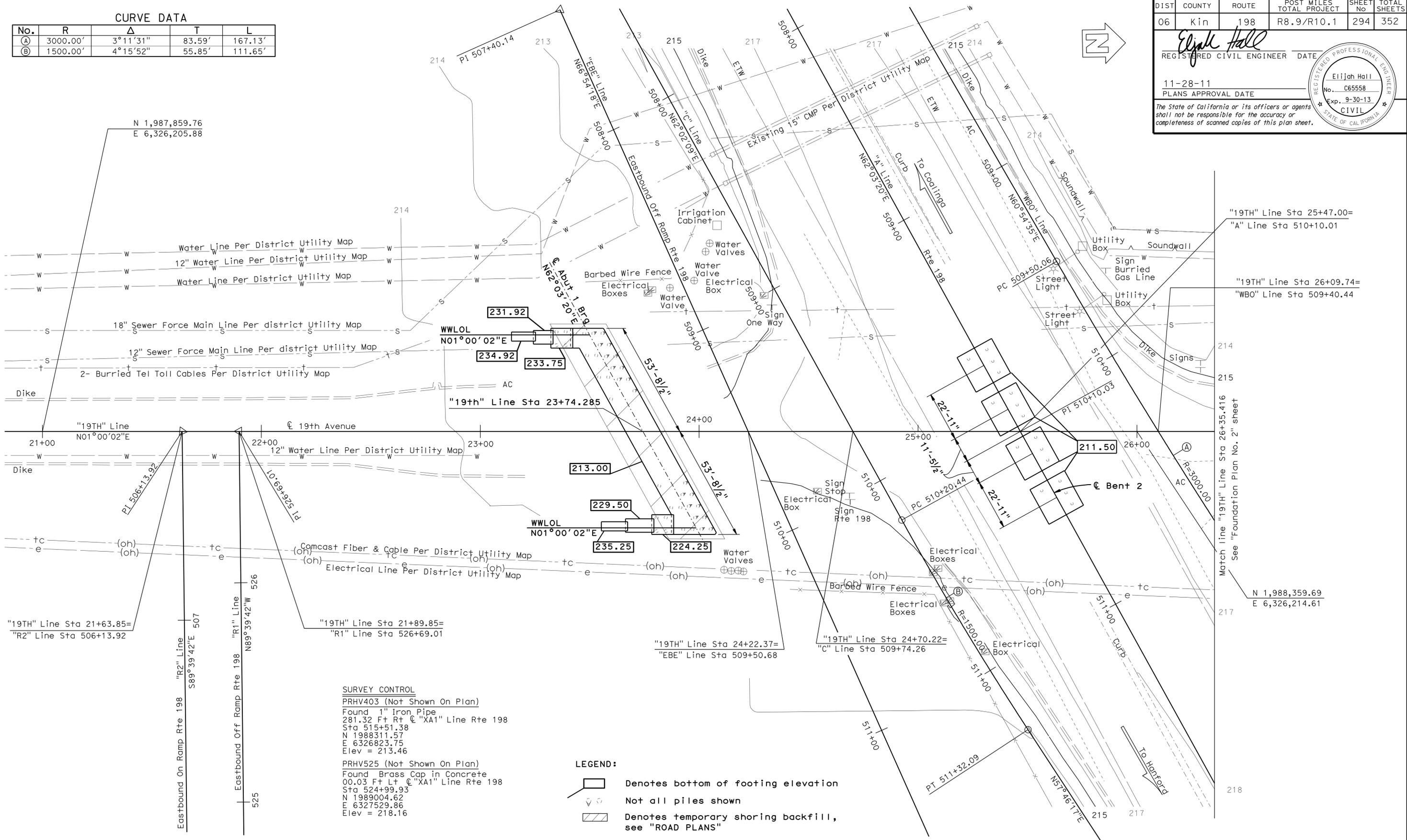
19TH AVENUE OVERCROSSING
DECK CONTOURS

CURVE DATA

No.	R	Δ	T	L
(A)	3000.00'	3°11'31"	83.59'	167.13'
(B)	1500.00'	4°15'52"	55.85'	111.65'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	294	352

Elijah Hall
 REGISTERED CIVIL ENGINEER DATE
 11-28-11
 PLANS APPROVAL DATE
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SURVEY CONTROL
 PRHV403 (Not Shown On Plan)
 Found 1" Iron Pipe
 281.32 F+ R+ @ "XA1" Line Rte 198
 Sta 515+51.38
 N 1988311.57
 E 6326823.75
 Elev = 213.46
 PRHV525 (Not Shown On Plan)
 Found Brass Cap in Concrete
 00.03 F+ L+ @ "XA1" Line Rte 198
 Sta 524+99.93
 N 1989004.62
 E 6327529.86
 Elev = 218.16

- LEGEND:**
- Denotes bottom of footing elevation
 - Not all piles shown
 - Denotes temporary shoring backfill, see "ROAD PLANS"

PRELIMINARY INVESTIGATION SECTION

SCALE	VERT. DATUM	NAVDB8	PHOTOGRAMMETRY AS OF:	X
1"=20'	HORZ. DATUM	NAD83 (1991.35)	SURVEYED	BY District/J. Borden
ALIGNMENT TIES	Dist. Traverse Sheet	DRAFTED	BY T. Zolnikova	03/2009
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 10/25/05)	CHECKED	BY T. Gillett	03/2009	
	CHECKED	BY T. Schmalz	03/2009	

DESIGN	BY	Checked
DETAILS	Elijah Hall	Rene Coria
QUANTITIES	G. Leung, P. Silva	Rene Coria
	Ramon Reyes	Craig Schellenger

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 17

BRIDGE NO.
45-0104
POST MILE
R8.9/R10.1

19TH AVENUE OVERCROSSING
FOUNDATION PLAN No. 1

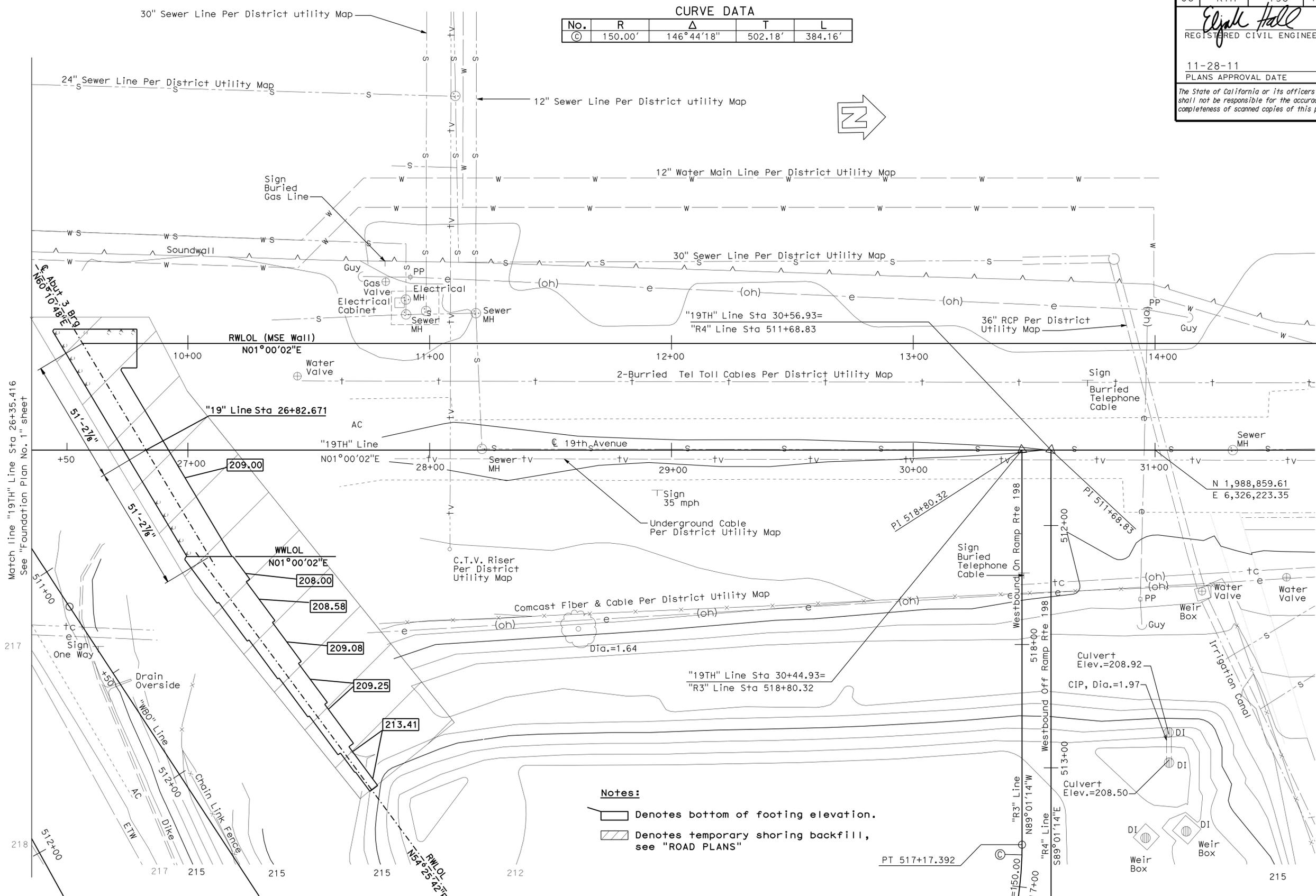
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	295	352

Elijah Hall
 REGISTERED CIVIL ENGINEER DATE
 11-28-11
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 No. C65558
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA

CURVE DATA

No.	R	Δ	T	L
(C)	150.00'	146°44'18"	502.18'	384.16'



Notes:

- Denotes bottom of footing elevation.
- ▨ Denotes temporary shoring backfill, see "ROAD PLANS"

Match line "19TH" Line Sta 26+35.416
 See "Foundation Plan No. 1" sheet

PRELIMINARY INVESTIGATION SECTION

SCALE	VERT. DATUM	NAVDB8	PHOTOGRAMMETRY	AS OF: X
1"=20'	HORZ. DATUM	NAD83 (1991.35)	SURVEYED	BY District/J. Borden
ALIGNMENT TIES	Dist. Traverse Sheet	DRAFTED	BY T. Zolnikova	03/2009
CHECKED	BY X	CHECKED	BY X	

DESIGN	BY Elijah Hall	CHECKED	Rene Coria
DETAILS	BY G. Leung, P. Silva	CHECKED	Rene Coria
QUANTITIES	BY Ramon Reyes	CHECKED	Craig Schellenger

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 17

BRIDGE NO.	45-0104
POST MILE	R8.9/R10.1

19TH AVENUE OVERCROSSING
FOUNDATION PLAN No. 2

STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 06
 EA 325501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	6/28/10	11/24/10	05/04/11	05/25/11				
SHEET	5							
OF	37							

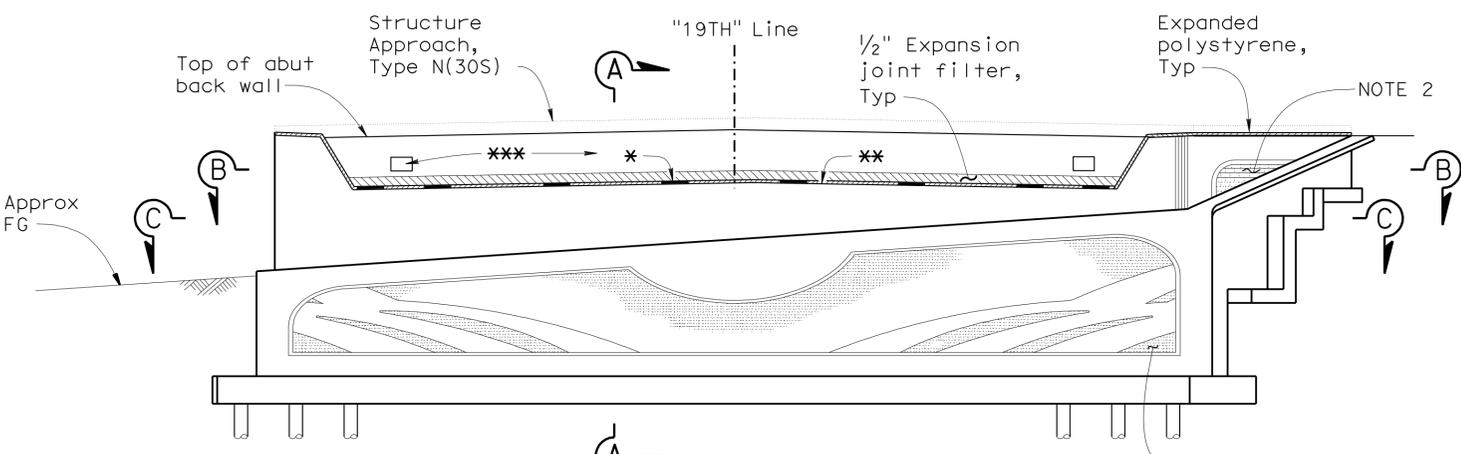
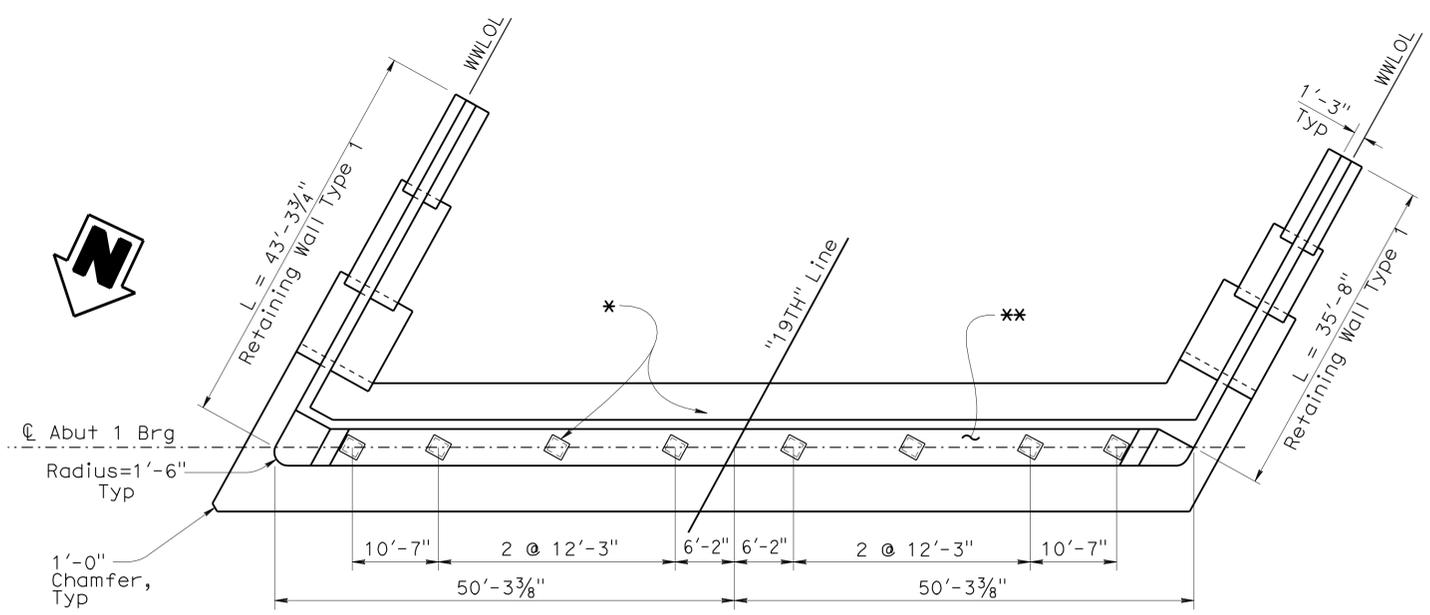
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	296	352

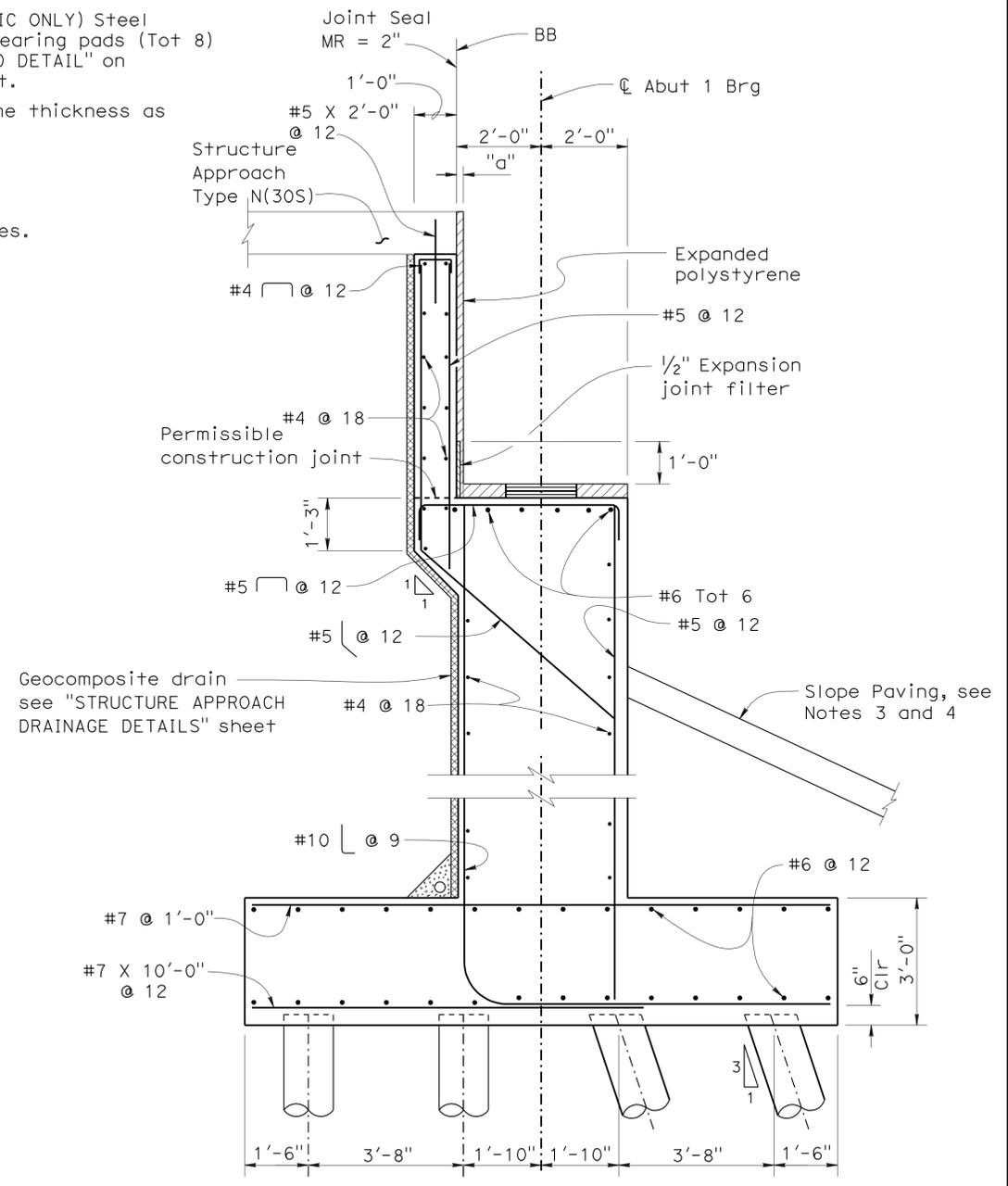
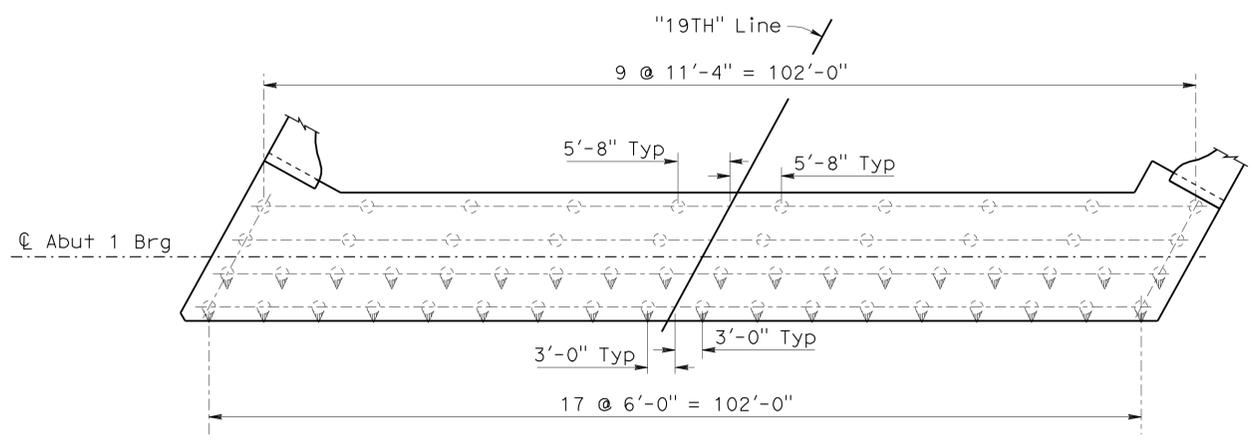
Elijah Hall
REGISTERED CIVIL ENGINEER DATE
11-28-11
PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
Elijah Hall
No. C65558
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

- NOTES:**
- For "SECTION B-B" and "SECTION C-C", see "ABUTMENT DETAILS No. 2" sheet.
 - Brick Texture, see "ABUTMENT DETAILS No. 1" sheet.
 - For slope paving details, see "SLOPE PAVING - FULL SLOPE" sheet.
 - Slope paving (Concrete)(Brick and Smooth Surface), see "ARCHITECTURAL DETAIL No. 1" sheet.
- LEGEND:**
- * 18" X 20" X 4" (ELASTOMERIC ONLY) Steel reinforced elastomeric bearing pads (Tot 8) see "TYPICAL BEARING PAD DETAIL" on "ABUTMENT 3 LAYOUT" sheet.
 - ** Expanded polystyrene same thickness as bearing pad.
 - *** Future utility opening
 - Denotes vertical piles.
 - ▽ Denotes 3:1 battered piles.



NOTE:
1. Not all Piles shown.



SECTION A-A
1/2" = 1'-0"

B0-13 B7-10 RSP 6-21 B2-5

DESIGN	BY Elijah Hall	CHECKED Rene Coria
DETAILS	BY G. Leung, P. Silva	CHECKED Rene Coria
QUANTITIES	BY Ramon Reyes	CHECKED Craig Schellenger

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 17

BRIDGE NO.
45-0104
POST MILE
R8.9/R10.1

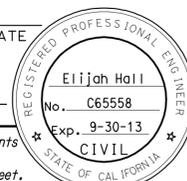
19TH AVENUE OVERCROSSING
ABUTMENT 1 LAYOUT

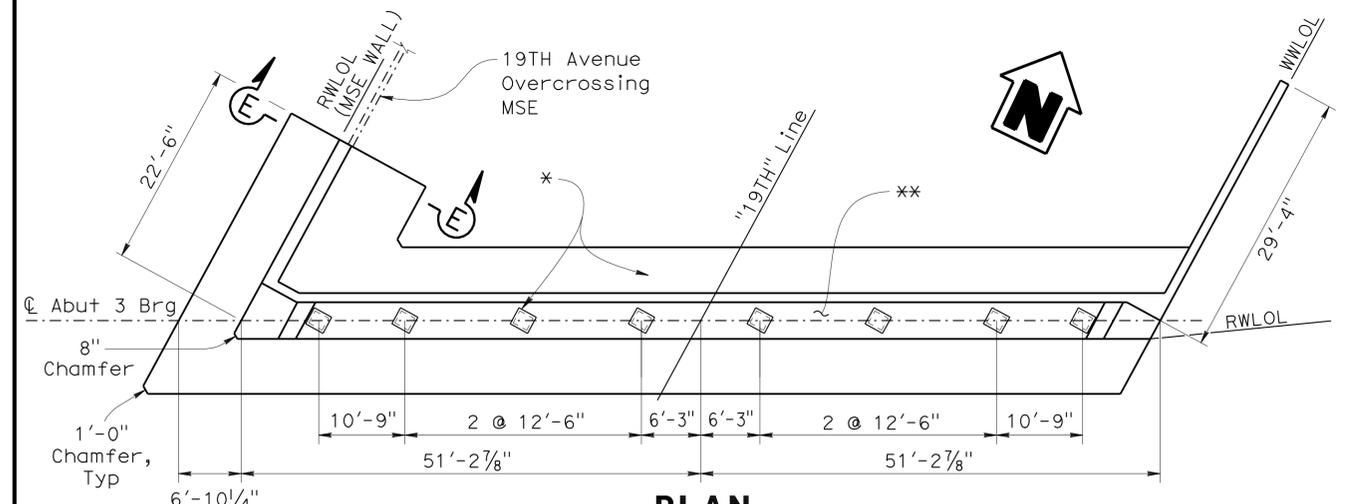
CU 06
EA 325501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

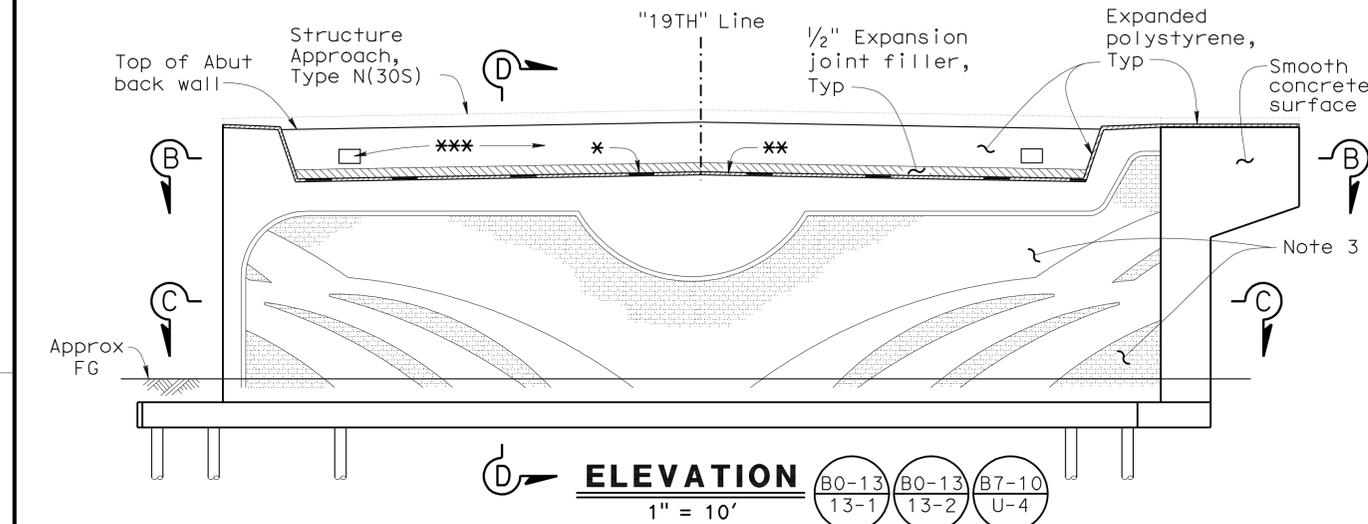
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SHEET 6 OF 37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	297	352
					
REGISTERED CIVIL ENGINEER DATE 11-28-11 PLANS APPROVAL DATE					
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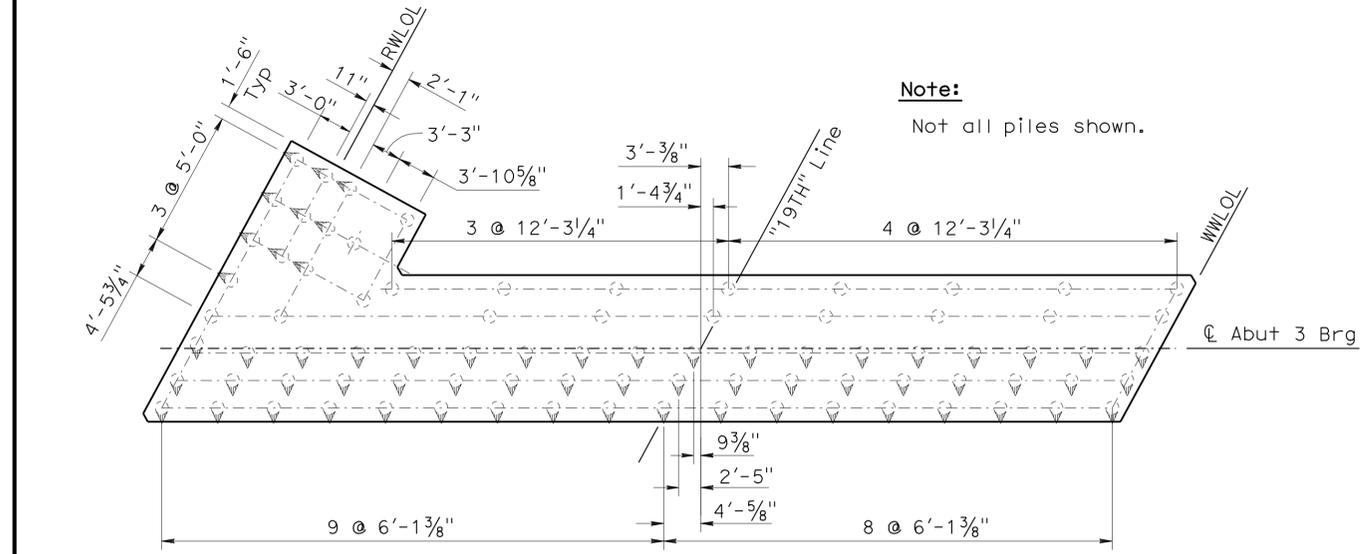


PLAN
1" = 10'



ELEVATION
1" = 10'

B0-13
13-1 B0-13
13-2 B7-10
U-4



PILE LAYOUT
1" = 10'

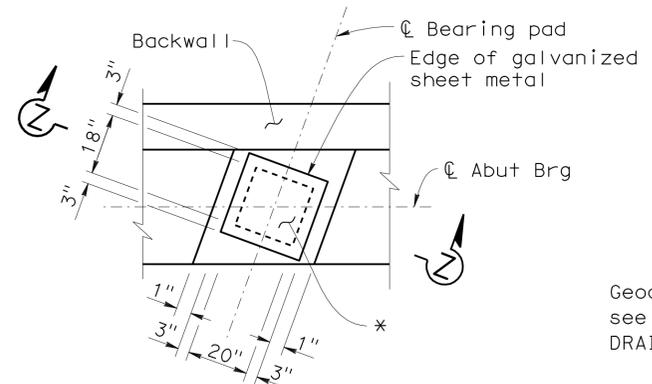
Note:
Not all piles shown.

NOTES:

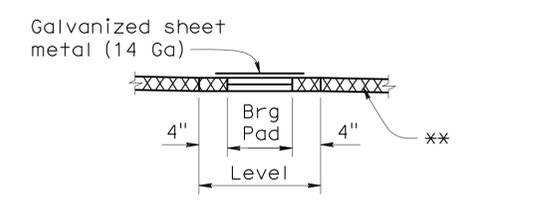
- For "SECTION B-B" and "SECTION C-C", see "ABUTMENT DETAILS No. 2" sheet.
- For "SECTION E-E", SEE "ABUTMENT DETAILS No. 3" Sheet.
- Formed Relief Texture, see "ARCHITECTURAL DETAIL No. 2" sheet.
- Retaining Wall No. 1 is not shown, see "RETAINING WALL No. 1 LAYOUT" sheet.

LEGEND:

- * 18" X 20" X 4" (ELASTOMERIC ONLY) Steel reinforced elastomeric bearing pads (Tot 8).
- ** Expanded polystyrene same thickness as bearing pad.
- *** Future utility opening.
- Denotes vertical piles.
- △ Denotes 3:1 battered piles.



PLAN



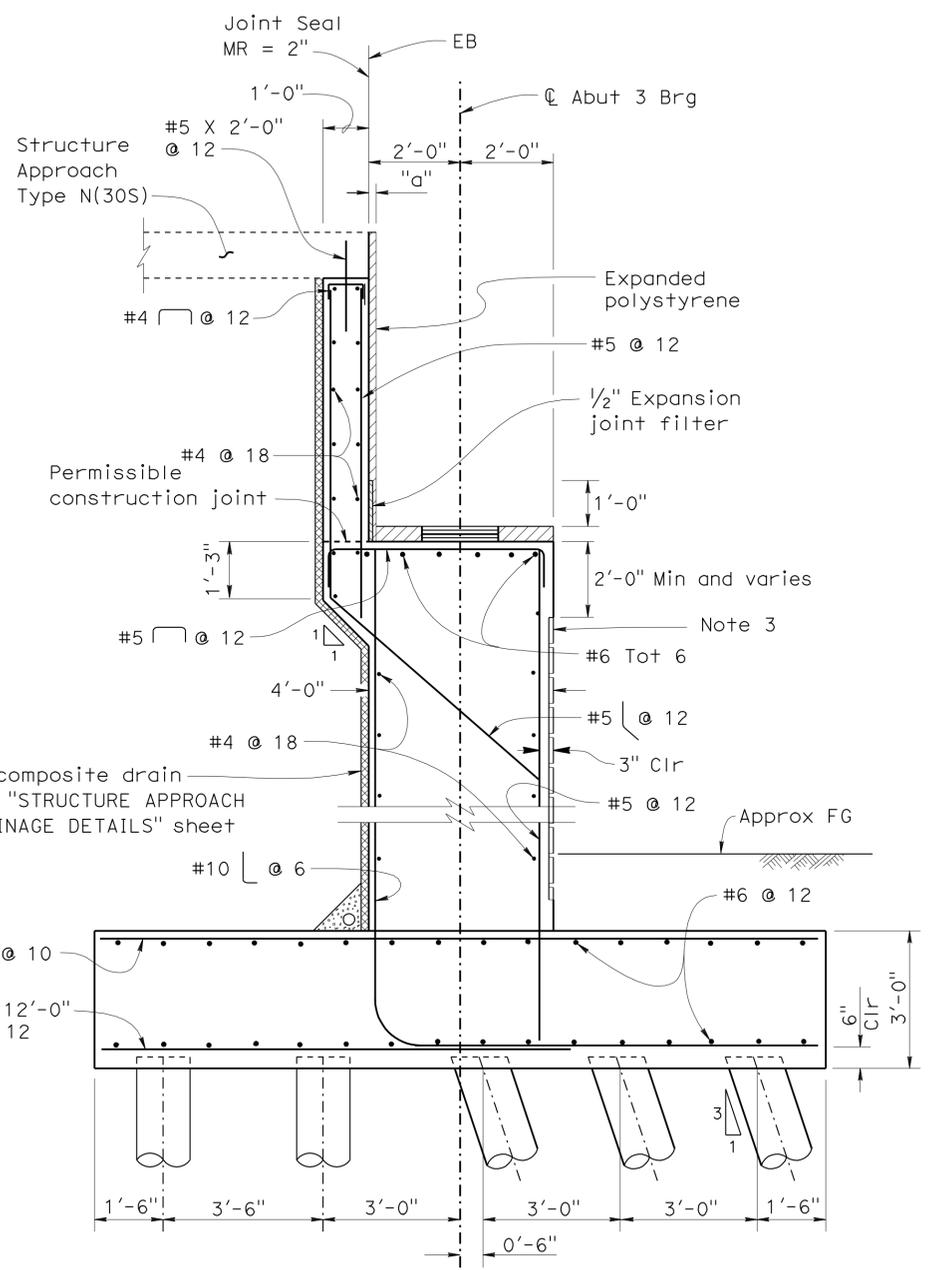
SECTION Z-Z

TYPICAL BEARING PAD DETAIL

No Scale

Note:

Coat top of bearing pad with silicone grease prior to placing sheet metal.



SECTION D-D
1/2" = 1'-0"

B0-13 B7-10 RSP 6-21 B2-5

DESIGN	BY	Elijah Hall	CHECKED	Rene Coria
DETAILS	BY	G. Leung, P. Silva	CHECKED	Rene Coria
QUANTITIES	BY	Ramon Reyes	CHECKED	Craig Schellenger

STATE OF CALIFORNIA	
DEPARTMENT OF TRANSPORTATION	

DIVISION OF ENGINEERING SERVICES	
STRUCTURE DESIGN	
DESIGN BRANCH 17	

BRIDGE NO.	45-0104	19TH AVENUE OVERCROSSING
POST MILE	R8.9/R10.1	
ABUTMENT 3 LAYOUT		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	298	352

Elijah Hall
REGISTERED CIVIL ENGINEER DATE
11-28-11
PLANS APPROVAL DATE
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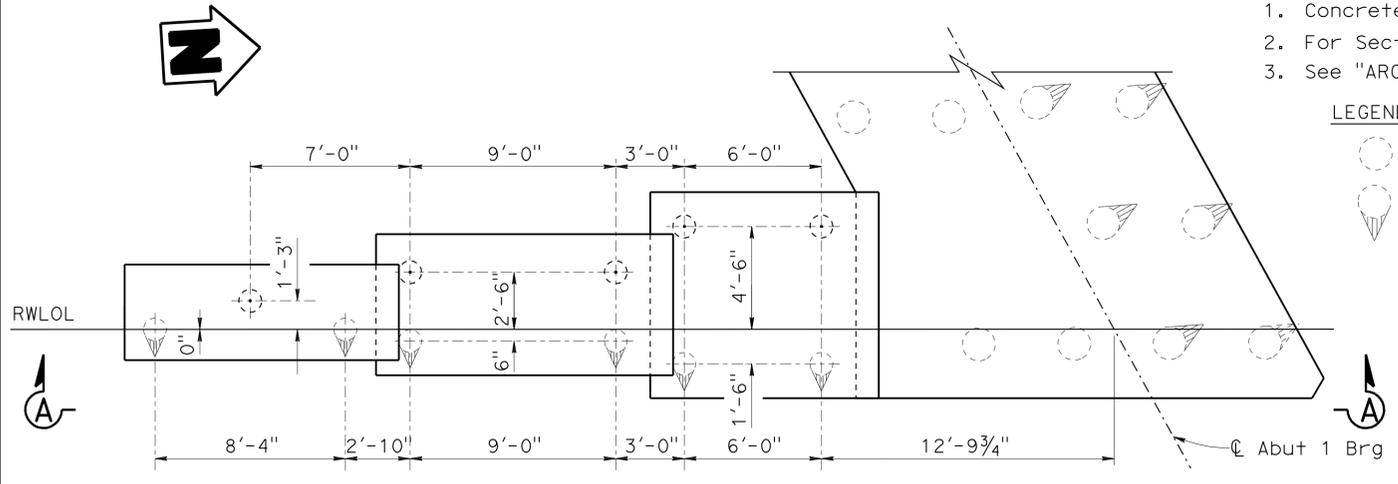
REGISTERED PROFESSIONAL ENGINEER
Elijah Hall
No. C65558
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

- NOTES:
- Concrete Barrier and Chain Link Railing not shown.
 - For Section L-L, see "ABUTMENT DETAILS No. 3" sheet.
 - See "ARCHITECTURAL DETAILS No. 3" sheet.

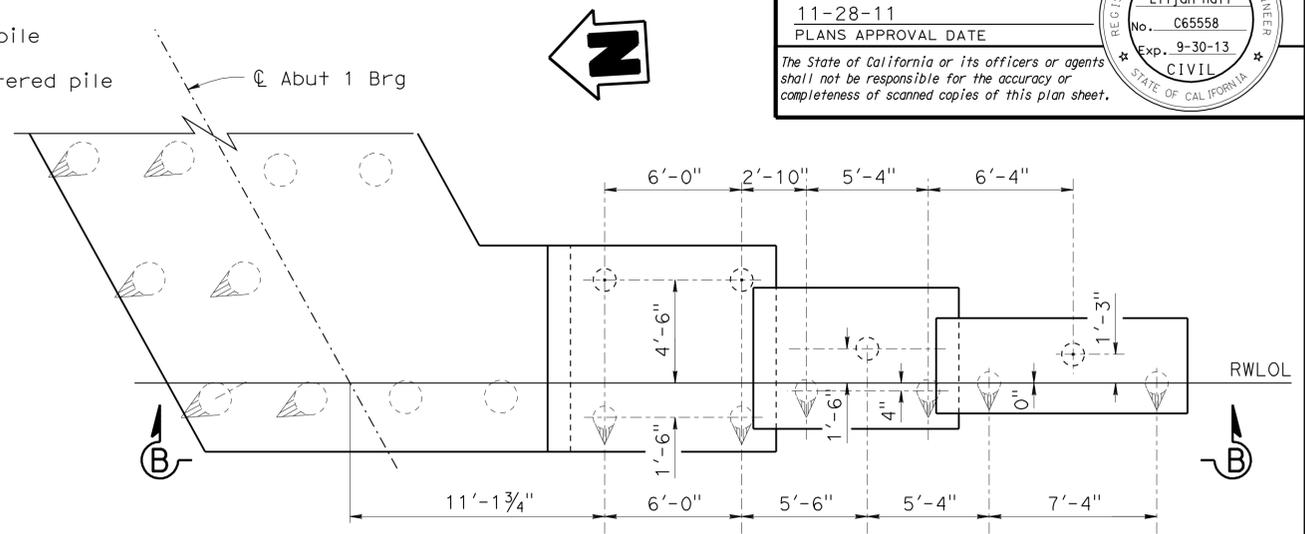
LEGEND:

Indicates vertical pile

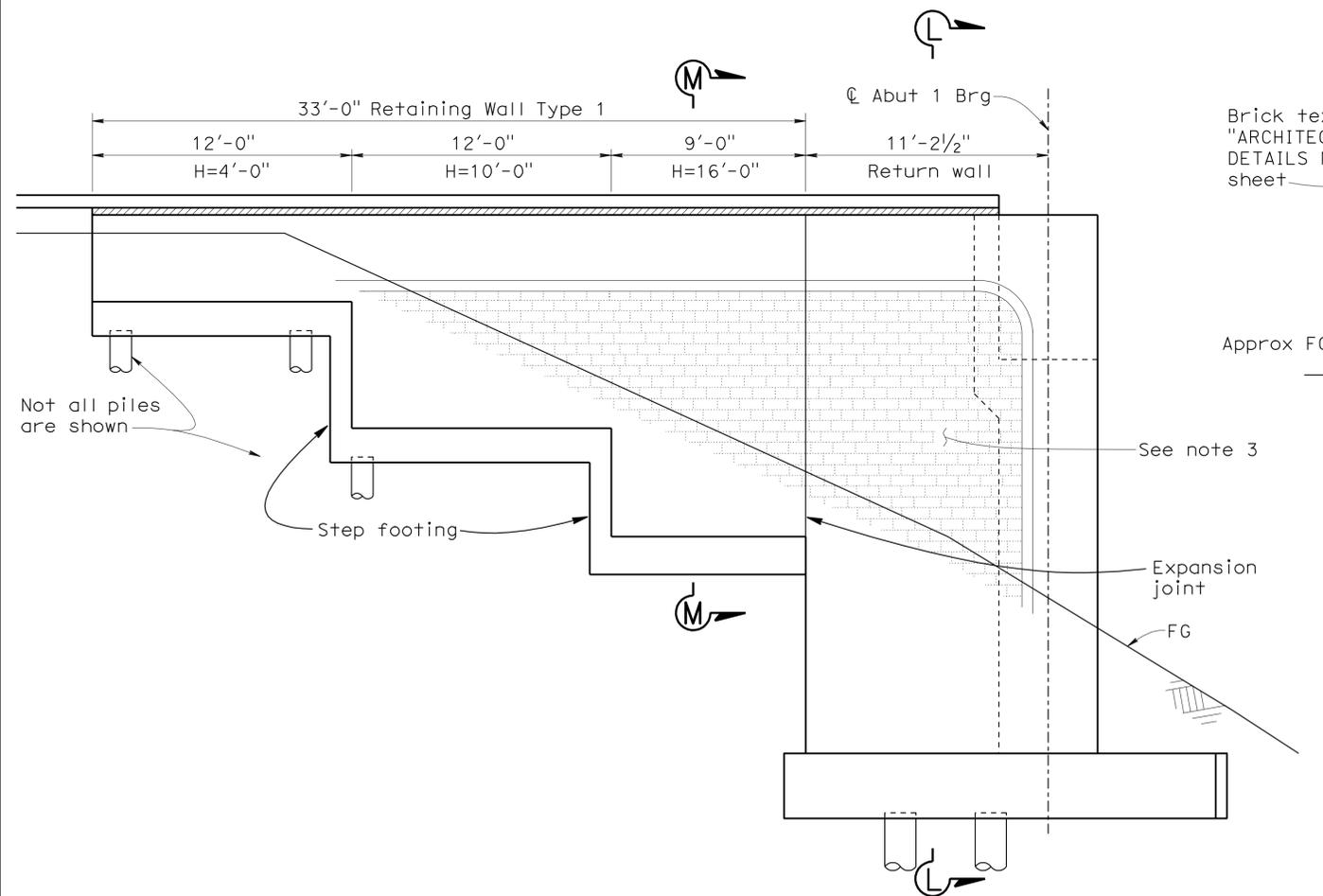
Indicates "3:1" battered pile



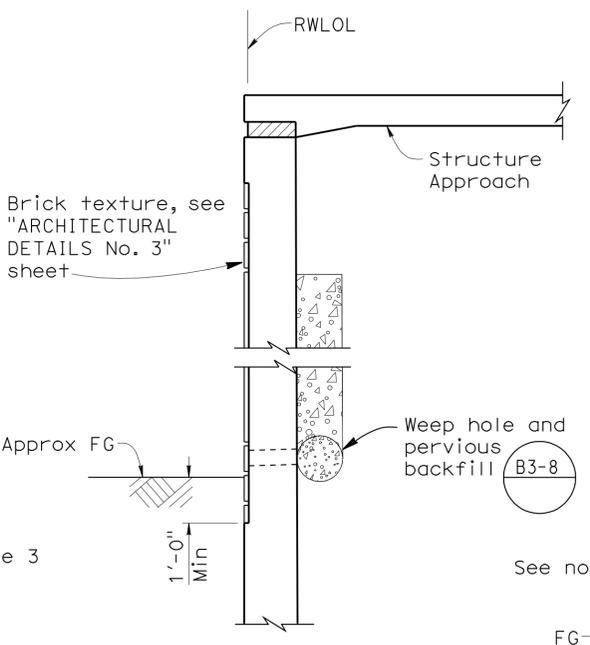
ABUTMENT 1 RETAINING WALL FOOTING (EAST)
1/4" = 1'-0"



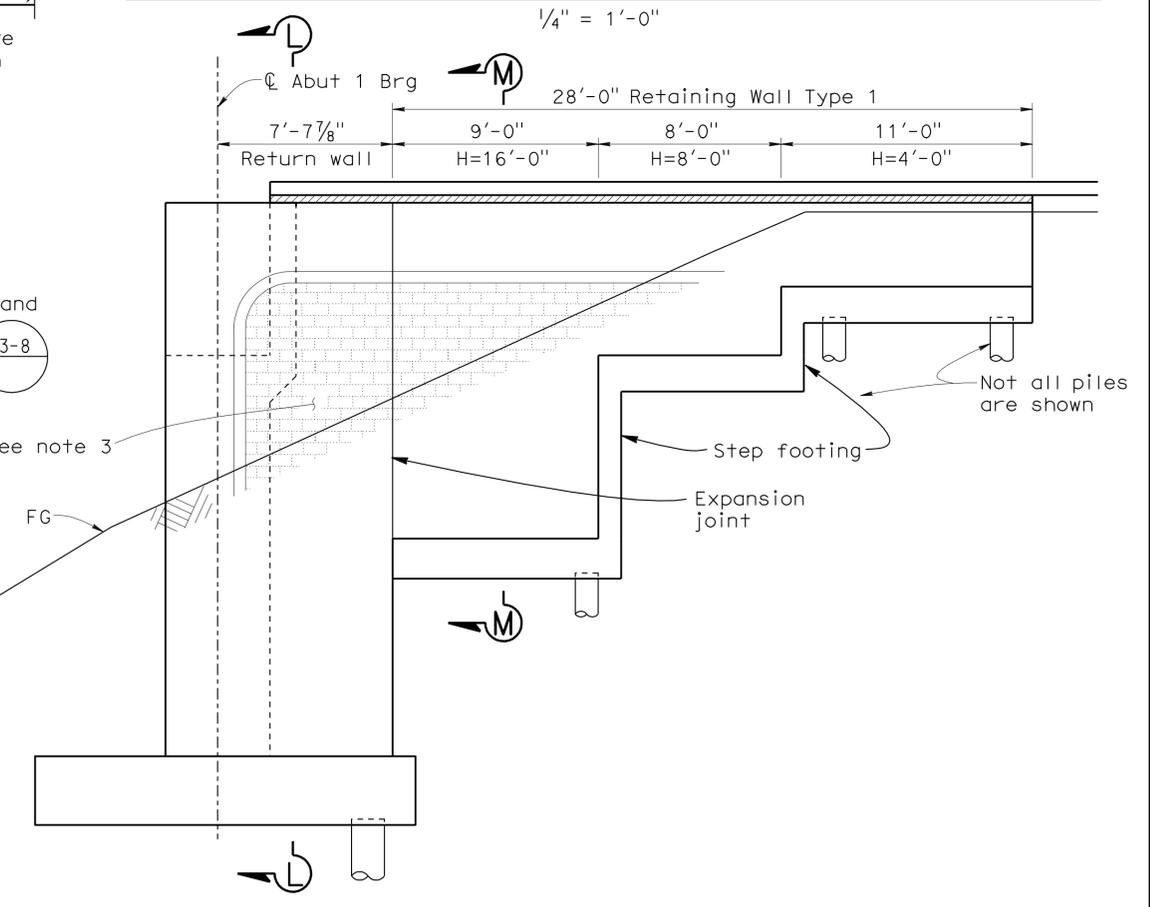
ABUTMENT 1 RETAINING WALL FOOTING (WEST)
1/4" = 1'-0"



RIGHT SIDE VIEW A-A
1/4" = 1'-0"



SECTION M-M
1/2" = 1'-0"



LEFT SIDE VIEW B-B
1/4" = 1'-0"

DESIGN	BY R. Coria	CHECKED E. Hall	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 17	BRIDGE NO.	19TH AVENUE OVERCROSSING ABUTMENT DETAILS No. 1
DETAILS	BY C. Figuerres	CHECKED R. Coria			45-0104	
QUANTITIES	BY R. Coria	CHECKED T. Win			POST MILE R8.9/R10.1	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 06 EA 325501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

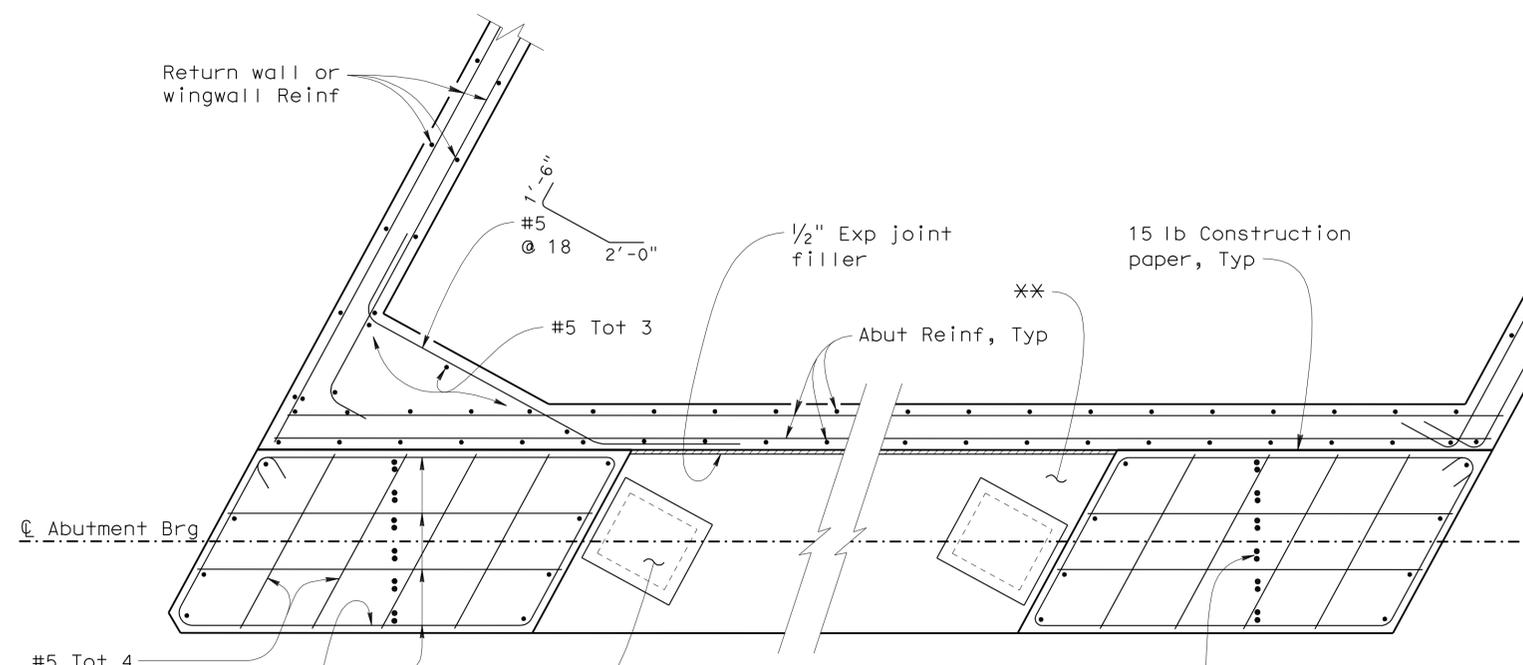
4-18-11	5-02-11	5-04-11	5-25-11	07-05-11	08-31-11
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SHEET 8 OF 37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	299	352

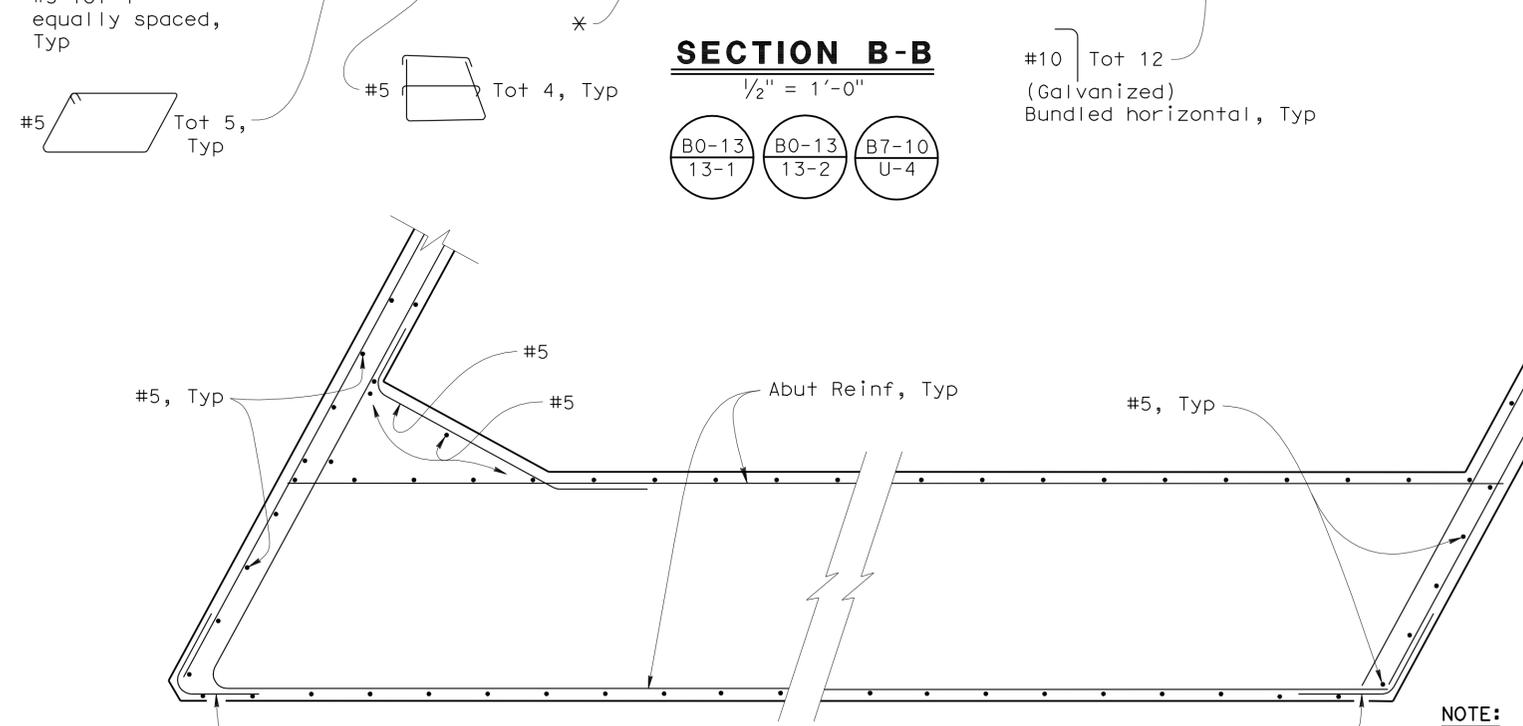
Elijah Hall
REGISTERED CIVIL ENGINEER DATE
11-28-11
PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
Elijah Hall
No. C65558
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA



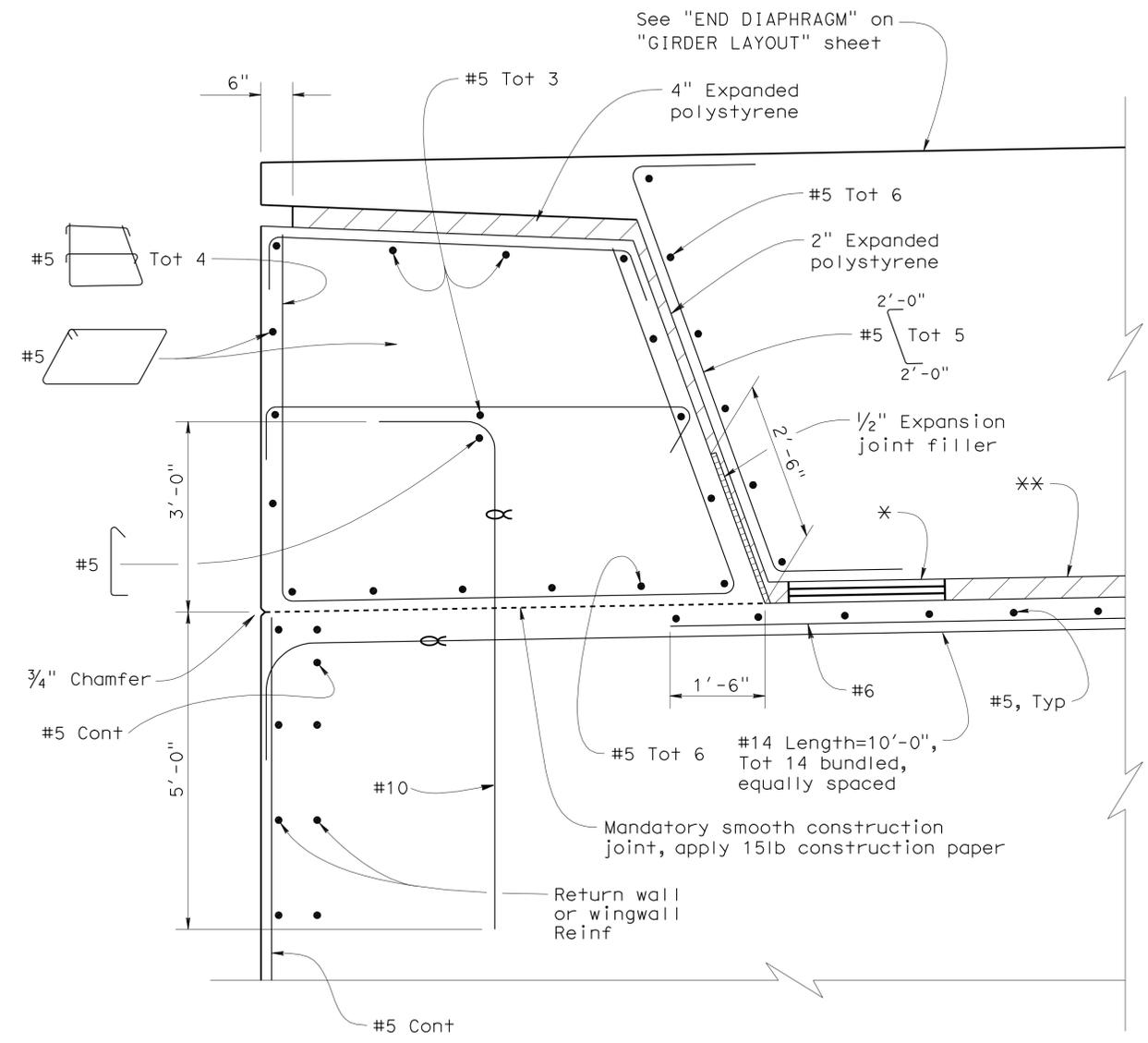
SECTION B-B
1/2" = 1'-0"

B0-13 13-1	B0-13 13-2	B7-10 U-4
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SECTION C-C
1/2" = 1'-0"

NOTE: Abut 1 shown, Abut 3 similar



TYPICAL SHEAR KEY
3/4" = 1'-0"

B0-13 13-1	B0-13 13-2	B7-10 U-4	B8-5
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NOTE:
Architectural details not shown, see "ARCHITECTURAL DETAILS No. 1-5" sheets

LEGEND:
∞ Denotes bundled reinforcing steel bars.

* 18" X 20" X 4" (ELASTOMERIC ONLY) Steel reinforced elastomeric bearing pads (Tot 8) see " TYPICAL BEARING PAD DETAIL" on "ABUTMENT 3 LAYOUT" sheet.

** Expanded polystyrene same thickness as bearing pad.

DESIGN	BY Elijah Hall	CHECKED Rene Coria
DETAILS	BY G. Leung, P. Silva	CHECKED Rene Coria
QUANTITIES	BY Ramon Reyes	CHECKED Craig Schellenger

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

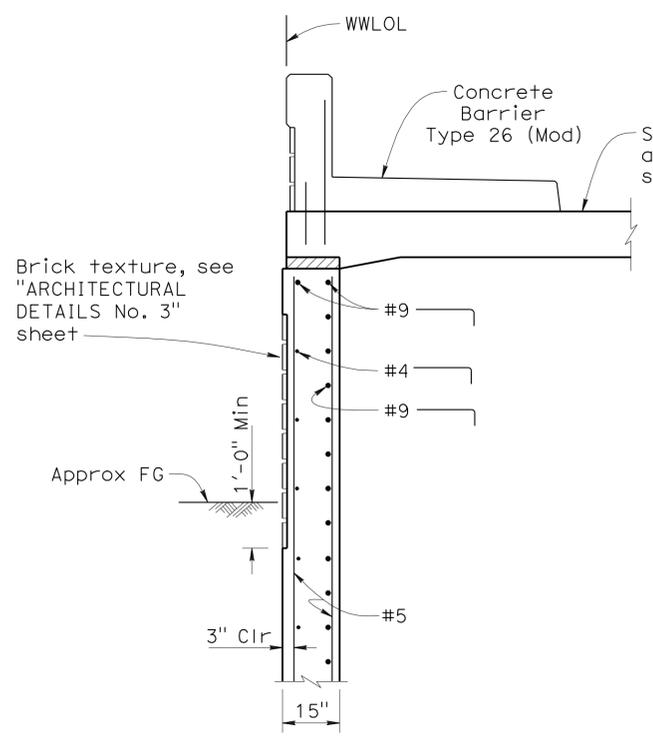
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 17

BRIDGE NO. 45-0104	19TH AVENUE OVERCROSSING
POST MILE R8.9/R10.1	
ABUTMENT DETAILS No. 2	

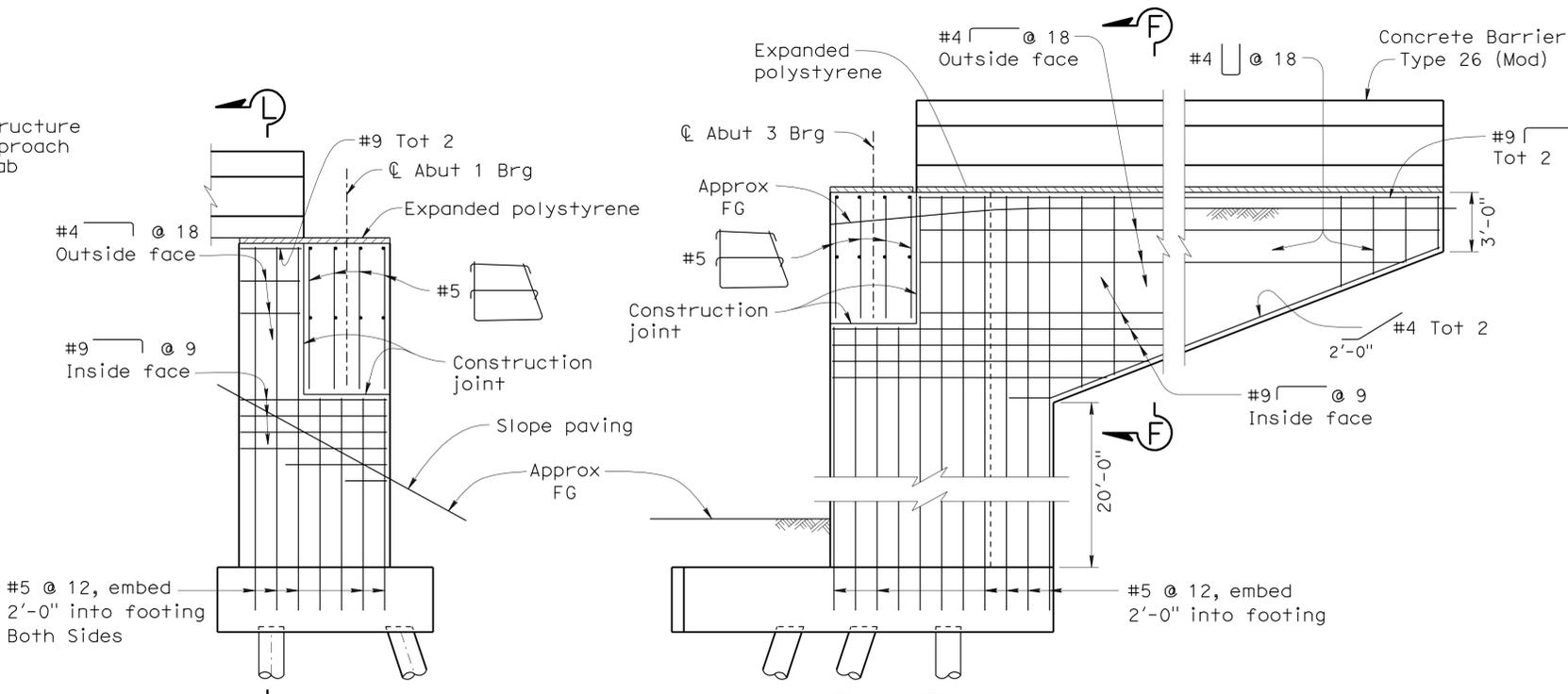
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	300	352

REGISTERED CIVIL ENGINEER
 ELIJAH HALL
 No. C65558
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA

11-28-11
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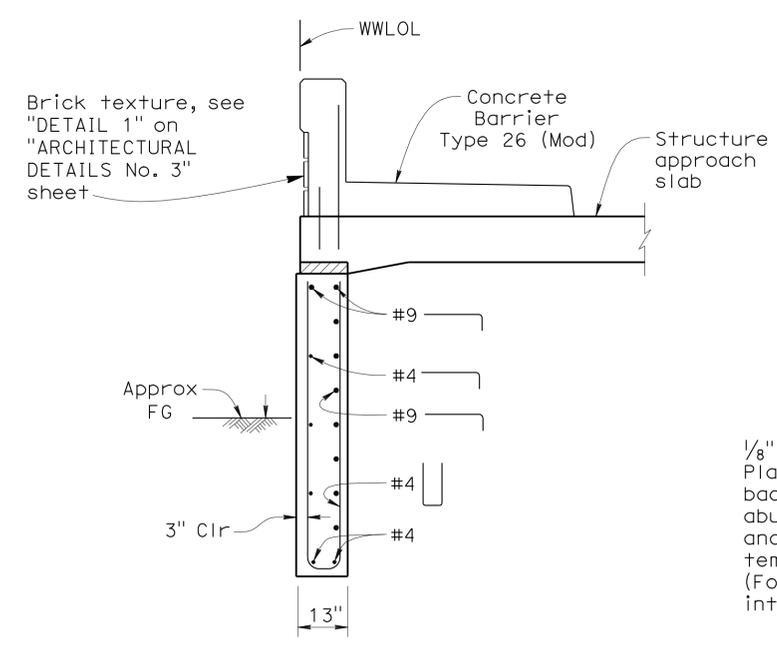


SECTION L-L (B11-54)
1/2" = 1'-0"

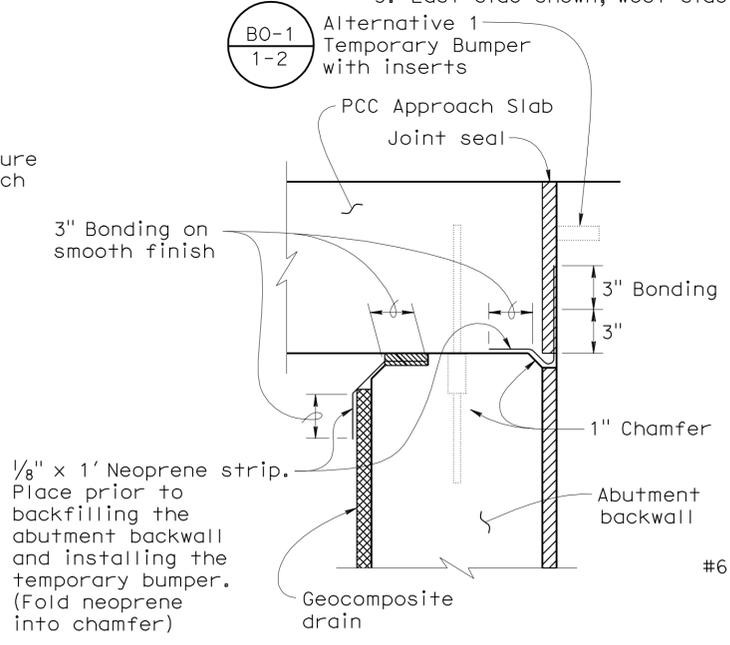


WINGWALL ELEVATIONS (BO-1) (B11-54)

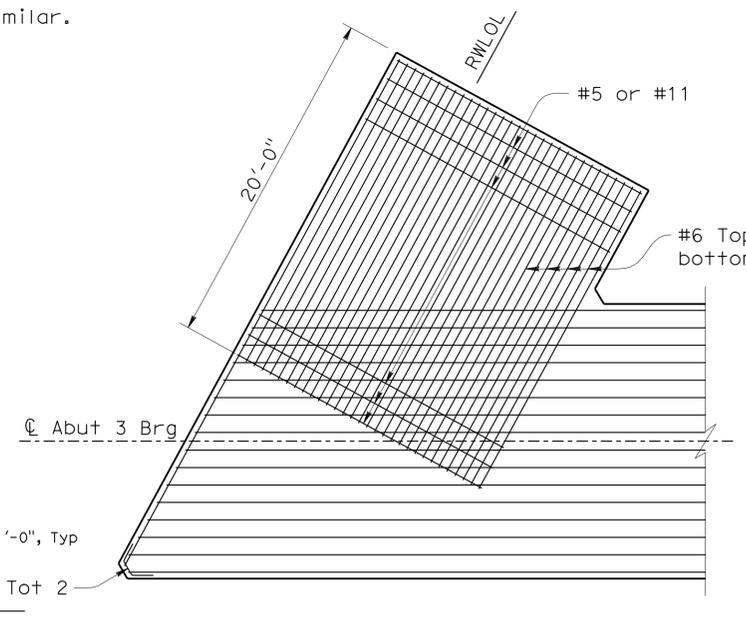
- Notes: 1/4" = 1'-0"
- Not all piles shown.
 - Chain link railing is not shown.
 - East side shown, west side similar.



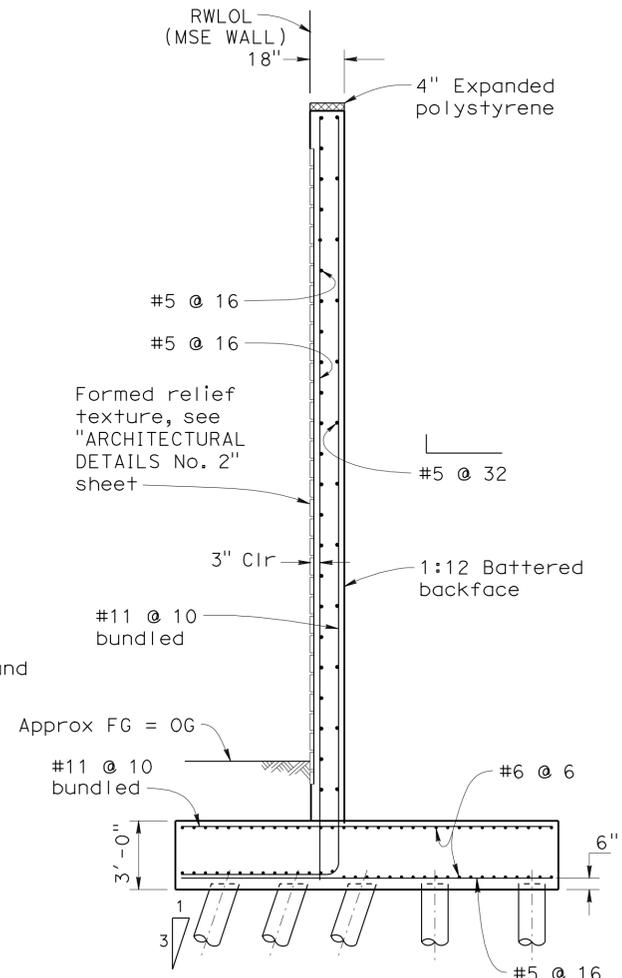
SECTION F-F (B11-54)
1/2" = 1'-0"



JOINT PROTECTION DETAIL
No Scale



PARTIAL ABUTMENT 3 FOOTING PLAN
3/16" = 1'-0"



SECTION E-E
1/4" = 1'-0"

- Notes:
- Concrete barrier, chain link railing and approach slab are not shown.
 - For "SECTION E-E" see "ABUTMENT 3 LAYOUT" sheet.

DESIGN BY DETAILS BY QUANTITIES BY	BY Elijah Hall BY G. Leung, P. Silva BY Ramon Reyes	CHECKED CHECKED CHECKED	Rene Coria Rene Coria Craig Schellenger	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 17	BRIDGE NO. 45-0104	19TH AVENUE OVERCROSSING ABUTMENT DETAILS No. 3
	POST MILE R8.9/R10.1		SHEET 10				
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		OF 37				

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 CU 06 EA 325501
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 2-18-10, 2-26-10, 11-24-10, 4-19-11, 05-04-11, 05-26-11, 07-06-11, 07-14-11, 08-31-11