Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	212	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

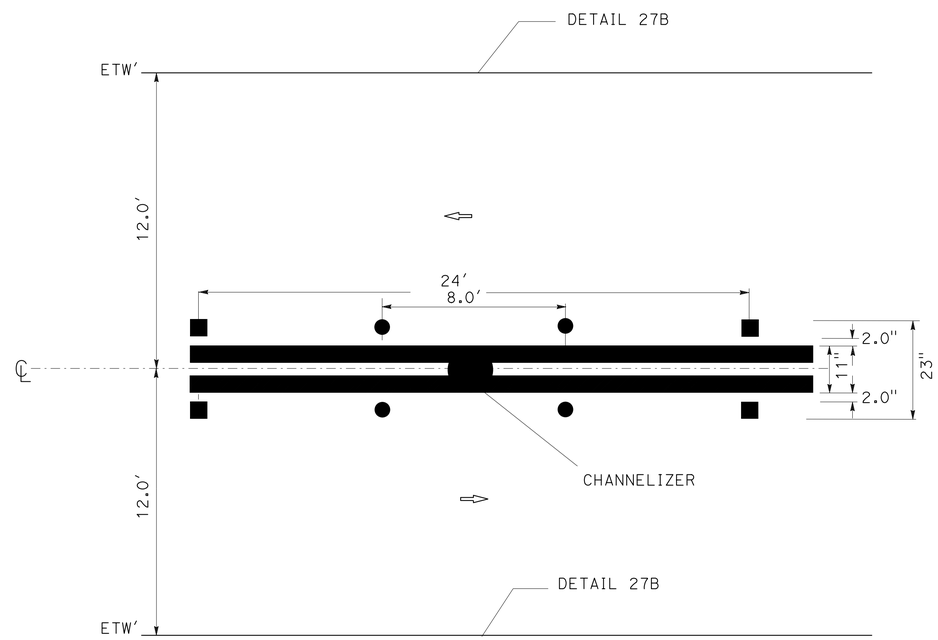
12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp 12/31/17
CIVIL
STATE OF CALIFORNIA

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

LEGEND:

- ■ TYPE D TWO-WAY YELLOW RETROREFLECTIVE
- ● TYPE A BLACK NON-RETROREFLECTIVE
- ▬ 4" Temp THERMOPLASTIC TRAFFIC STRIPE



TEMPORARY CENTERLINE DETAIL 22 (MODIFIED)

TRAFFIC HANDLING DETAILS

NO SCALE

THD-1

REVISED BY	RT
DATE REVISED	12-08-15

CECILE NGUYEN
HUE NGUYEN

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
MOHAMMED QATAMI

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

LAST REVISION 12-08-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	213	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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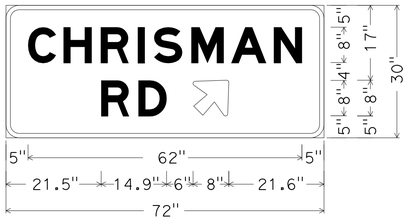
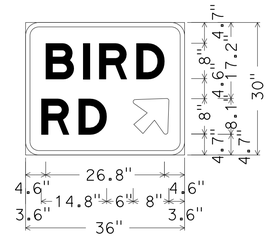


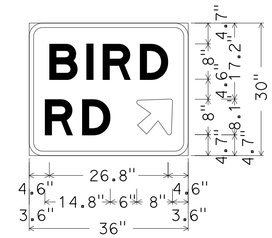
3.0" Radius, 1.0" Border, Black on Orange;
[CHRISMAN] E Mod; [RD] E Mod;
Arrow 6UC-2LH - 9.6" 45°;

SIGN No. 9 & 21
G85(CA)(Mod)
TH-1



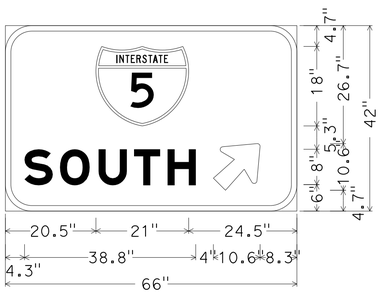
3.0" Radius, 1.0" Border, Black on Orange;
[BIRD] E Mod;
[RD] E Mod;
Arrow 6UC-2LH - 9.6" 45°;

SIGN No. 36
G85(CA)(Mod)
TH-8



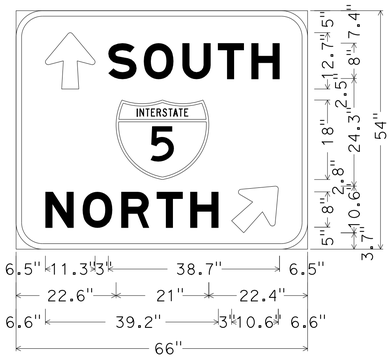
3.0" Radius, 1.0" Border, Black on Orange;
[BIRD] E Mod;
[RD] E Mod;
Arrow 6UC-2LH - 9.6" 45°;

SIGN No. 11
G85(CA)(Mod)
TH-17



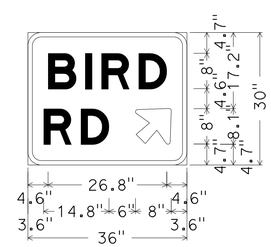
6.0" Radius, 1.3" Border, Black on Orange;
[SOUTH] E Mod;
Arrow 8UC-1L - 12.8" 45°;

SIGN No. 61
G78-1(CA)
TH-11



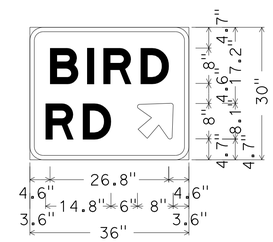
6.0" Radius, 1.3" Border, Black on Orange;
Arrow 8UC-1L - 12.8" 90°;
[SOUTH] E Mod; [NORTH] E Mod;
Arrow 8UC-1L - 12.8" 45°;

SIGN No. 68
G77-4(CA)
TH-12



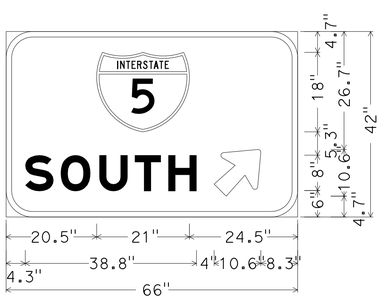
3.0" Radius, 1.0" Border, Black on Orange;
[BIRD] E Mod;
[RD] E Mod;
Arrow 6UC-2LH - 9.6" 45°;

SIGN No. 11
G85(CA)(Mod)
TH-40



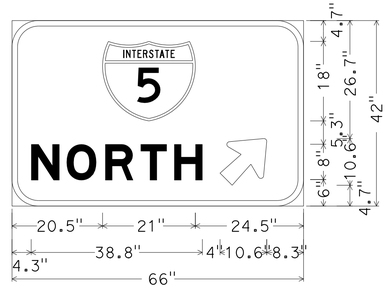
3.0" Radius, 1.0" Border, Black on Orange;
[BIRD] E Mod;
[RD] E Mod;
Arrow 6UC-2LH - 9.6" 45°;

SIGN No. 14
G85(CA)(Mod)
TH-42



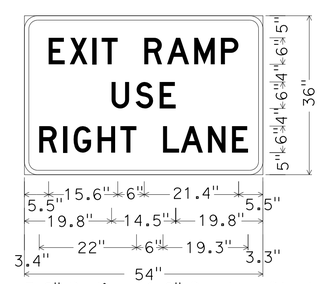
6.0" Radius, 1.3" Border, Black on Orange;
[SOUTH] E Mod;
Arrow 8UC-1L - 12.8" 45°;

SIGN No. 20
G78-1(CA)
TH-43



6.0" Radius, 1.3" Border, Black on Orange;
[SOUTH] E Mod;
Arrow 8UC-1L - 12.8" 45°;

SIGN No. 23
G78-1(CA)
TH-44



3.0" Radius, 1.0" Border, Black on Orange;
[EXIT RAMP] D; [USE] D;
[RIGHT LANE] D;

SIGN No. 5
SPECIAL SIGN
TH-57

TRAFFIC HANDLING DETAILS
THD-2

RT	10-08-15		
RT	09-30-15		
REVISED BY	DATE REVISED		
RAJINI TEKALKOTE	HUE NGUYEN		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI		

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

LAST REVISION 12-08-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	214	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. SEE CONSTRUCTION AREA SIGNS SHEET CS-1 AND DEQ-1 FOR MORE SIGNS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (TRAFFIC HANDLING)

STAGE	SHEET No.	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGN EACH	TYPE III BARRICADE	REMARKS
STAGE II	TH-1	1	W20-5L(1 MILE)		LANE CLOSED AHEAD 1 MILE	36" x 36"	1 - 4" x 6"	2		
		2	W20-3(Mod)		LANE SHIFT AHEAD	36" x 36"	1 - 4" x 6"	2		
		3	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	2		
		4	W20-5L(1/2 MILE)		LANE CLOSED AHEAD 1/2 MILE	36" x 36"	1 - 4" x 6"	2		
		5	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	2		
		6	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	1		
		7	W4-2L		LANE ENDS	36" x 36"	1 - 4" x 6"	2		
		8	R2-12		END WORK ZONE SPEED LIMIT	24" x 36"	1 - 4" x 6"	2		
		9		G85(CA)(Mod)	CHRISMAN RD ↗	72" x 30"	2 - 4" x 6"	1		
		10	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
		11	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		12		SC18(CA)	EXIT WITH ARROW	48" x 48"	1 - 6" x 6"	1		
		13	R5-1		DO NOT ENTER	30" x 30"	1 - 4" x 4"	1		
		14	R5-1		DO NOT ENTER	30" x 30"	1 - 4" x 4"	1		
		15	R4-7c		NARROW KEEP RIGHT	18" x 30"	1 - 4" x 4"	1		
		16	R2-1(45 mph)		SPEED LIMIT 45 MPH	36" x 48"		1		MOUNT ON PORTABLE SPEED TRAILER
		17	R4-1		DO NOT PASS	24" x 30"	1 - 4" x 4"	1		
		18	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		19	W1-4		CURVE SYMBOL	36" x 36"	1 - 4" x 6"	1		
		20	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		21		G85(CA)(Mod)	CHRISMAN RD ↗	72" x 30"	2 - 4" x 6"	1		
	TH-2	22	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
	TH-3	23		C30A(CA)	SHOULDER CLOSED	30" x 30"	1 - 4" x 4"	1		
		24	W12-2(15'-0")		LOW CLEARANCE	36" x 36"	1 - 4" x 6"	1		
		25	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		26	W21-5b		SHOULDER CLOSED W/ DISTANCE	36" x 36"	1 - 4" x 6"	1		
		27	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	2		
	TH-6	28	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	2		
		29	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		30	R1-2		YIELD	36" x 36" x 36"	1 - 4" x 6"	1		
		31	W4-1		MERGING TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		32	W3-2		YIELD AHEAD	36" x 36"	1 - 4" x 6"	1		
		33	W1-4		CURVE SYMBOL	36" x 36"	1 - 4" x 6"	1		
			R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"				
	TH-7	34	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	1		
		35		SC18(CA)	EXIT WITH ARROW	48" x 48"	1 - 6" x 6"	1		
	TH-8	36		G85(CA)(Mod)	BIRD RD ↗	36" x 30"	1 - 4" x 6"	1		
		37	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	2		
		38	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	1		
		39	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
	TH-9	40	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	2		
		41	R1-2		YIELD	36" x 36" x 36"	1 - 4" x 6"	1		
		42	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		43	W4-1		MERGING TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
	TH-10	44	W3-2		YIELD AHEAD	36" x 36"	1 - 4" x 6"	1		
		45	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
		46	R11-2		ROAD CLOSED	48" x 30"		2	6	MOUNT ON BARRICADE
							TOTAL THQ-1		6	

TRAFFIC HANDLING QUANTITIES

THQ-1

RT	12-08-15		
RT	10-12-15		
RT	09-30-15		
REVISED BY	DATE REVISED		
RAJINI TEKALKOTE	HUE NGUYEN		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 06-TRAFFIC DESIGN

LAST REVISION 12-08-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:28

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REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
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REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (TRAFFIC HANDLING)

STAGE	SHEET No.	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGN EACH	TYPE III BARRICADE	REMARKS
STAGE II	TH-10	47	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	2		
		48	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		49	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	1		
		50	R1-2		YIELD	36" x 36" x 36"	1 - 4" x 6"	1		
		51	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		52	W3-2		YIELD AHEAD	36" x 36"	1 - 4" x 6"	1		
		53	W4-1		MERGING TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		54	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		55	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	1		
		56	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
	TH-11	57	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	1		
		58	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
		59		SC18(CA)	EXIT WITH ARROW	48" x 48"	1 - 6" x 6"	1		
		60	W1-4		CURVE SYMBOL	36" x 36"	1 - 4" x 6"	1		
			R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"				
		61		G78-1(CA)	I-5 SOUTH	66" x 42"	2 - 4" x 6"	1		
		62	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		63	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	1		
		64	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		65	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
	TH-12	66		SC18(CA)	EXIT WITH ARROW	48" x 48"	1 - 6" x 6"	1		
		67	W1-4		CURVE SYMBOL	36" x 36"	1 - 4" x 6"	1		
			R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"				
		68		G77-4(CA)	I-5 SOUTH/NORTH	66" x 54"	2 - 4" x 6"	1		
		69	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	2		
	TH-13	70	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	2		
	TH-14	71	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	2		
		72	W1-4		CURVE SYMBOL	36" x 36"	1 - 4" x 6"	1		
			R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"				
		73	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	1		
		74	W20-3(Mod)		LANE SHIFT AHEAD	36" x 36"	1 - 4" x 6"	1		
		75	R2-12		END WORK ZONE SPEED LIMIT	24" x 36"	1 - 4" x 6"	1		
STAGE III PHASE I	TH-16	1	W4-1		MERGING TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		2		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
	TH-17	3		C30A(CA)	SHOULDER CLOSED	30" x 30"	1 - 4" x 4"	1		
		4	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
		5	W21-5bL(Mod)		LEFT SHOULDER CLOSED AHEAD	36" x 36"	1 - 4" x 6"	1		
		6		C30A(CA)	SHOULDER CLOSED	30" x 30"	1 - 4" x 4"	1		
		7		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		8		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		9	W21-5bL(Mod)		LEFT SHOULDER CLOSED AHEAD	36" x 36"	1 - 4" x 6"	1		
		10		C31A(CA)	NO SHOULDER	36" x 36"	1 - 4" x 6"	1		
		11		G85(CA)(Mod)	BIRD RD ↗	36" x 30"	1 - 4" x 6"	1		
		12		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
	TH-18	13		W74(CA)	THRU TRAFFIC MERGE LEFT	36" x 36"	1 - 4" x 6"	1		
		14		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
		15		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		16		C30A(CA)	SHOULDER CLOSED	30" x 30"	1 - 4" x 4"	1		
								TOTAL THQ-2	12	

TRAFFIC HANDLING QUANTITIES

THQ-2

REVISED BY	DATE REVISED
RT	12-08-15
RT	10-12-15
RT	09-30-15

CALCULATED-DESIGNED BY: RAJINI TEKALKOTE
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 12-08-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:28

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12-14-15
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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (TRAFFIC HANDLING)

STAGE	SHEET No.	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGN EACH	TYPE III BARRICADE	REMARKS
STAGE III PHASE I	TH-18	17		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		18	W21-5bL(Mod)		LEFT SHOULDER CLOSED AHEAD	36" x 36"	1 - 4" x 6"	1		
		19	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
		20		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
	TH-19	21		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		22		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
	TH-20	23	R1-2		YIELD	36" x 36" x 36"	1 - 4" x 6"	1		
		24	W3-2		YIELD AHEAD	36" x 36"	1 - 4" x 6"	1		
		25		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
		26		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		27		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		28		C31A(CA)	NO SHOULDER	36" x 36"	1 - 4" x 6"	1		
		29	W4-2		LANE ENDS	36" x 36"	1 - 4" x 6"	1		
	TH-21	30		W74(CA)	THRU TRAFFIC MERGE LEFT	36" x 36"	1 - 4" x 6"	1		
		31		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
		32		C30A(CA)	SHOULDER CLOSED	30" x 30"	1 - 4" x 4"	1		
		33		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		34	W21-5bL(Mod)		LEFT SHOULDER CLOSED AHEAD	36" x 36"	1 - 4" x 6"	1		
		35		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
		36		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
	TH-22	37		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		38		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
		39	W4-2		LANE ENDS	36" x 36"	1 - 4" x 6"	2		
	TH-23	40	W20-5L(Mod)		LEFT LANE CLOSED AHEAD	36" x 36"	1 - 4" x 6"	2		
		41	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
		42	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	1		
STAGE III PHASE II	TH-26	1	W4-3		ADDED LANE	36" x 36"	1 - 4" x 6"	1		
	TH-27	2		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
		3		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		4		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		5	W12-1		DOUBLE ARROW	30" x 30"	1 - 4" x 4"	1		
	TH-28	6		C30A(CA)	SHOULDER CLOSED	30" x 30"	1 - 4" x 4"	1		
		7		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		8		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
		9		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		10		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
	TH-29	11		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		12		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		13		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
	TH-30	14		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	2		
		15		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		16	W4-2		LANE ENDS	36" x 36"	1 - 4" x 6"	2		
		17		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
	TH-31	18		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		19	W12-1		DOUBLE ARROW	30" x 30"	1 - 4" x 4"	1		
		20		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		21		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	2		
		22		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
	TH-32	23	W12-1		DOUBLE ARROW	30" x 30"	1 - 4" x 4"	1		
							TOTAL THQ-3		66	

TRAFFIC HANDLING QUANTITIES
THQ-3

RT	RT	RT	REVISED BY
12-08-15	10-12-15	09-30-15	DATE REVISED
RAJINI TEKALKOTE			
HUE NGUYEN			
CALCULATED-DESIGNED BY			
CHECKED BY			
FUNCTIONAL SUPERVISOR			
MOHAMMED QATAMI			

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

LAST REVISION 12-08-15 | DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	217	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (TRAFFIC HANDLING)

STAGE	SHEET No.	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGN EACH	TYPE III BARRICADE	REMARKS
STAGE III PHASE II	TH-32	24		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		25		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	2		
		26	W4-2		LANE ENDS	36" x 36"	1 - 4" x 6"	1		
		27	W9-3		CENTER LANE CLOSED AHEAD	36" x 36"	1 - 4" x 6"	2		
STAGE IV	TH-35	1	W3-2		YIELD AHEAD	36" x 36"	1 - 4" x 6"	1		
		2	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
		3	W4-1		MERGING TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		4	R1-2		YIELD	36" x 36" x 36"	1 - 4" x 6"	1		
		5	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	2		
	TH-36	6	W21-5b(Mod)		RIGHT SHOULDER CLOSED AHEAD	36" x 36"	1 - 4" x 6"	1		
		7		C30A(CA)	SHOULDER CLOSED	30" x 30"	1 - 4" x 4"	1		
		8	W12-2(15'-0")		LOW CLEARANCE	36" x 36"	1 - 4" x 6"	1		
	TH-38	9	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	2		
		10	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	2		
	TH-40	11		G85(CA)(Mod)	BIRD RD ↗	36" x 30"	1 - 4" x 6"	1		
		12		SC18(CA)	EXIT WITH ARROW	48" x 48"	1 - 6" x 6"	1		
	TH-41	13	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	2		
	TH-42	14		G85(CA)(Mod)	BIRD RD ↗	36" x 30"	1 - 4" x 6"	1		
		15	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	2		
		16	W3-2		YIELD AHEAD	36" x 36"	1 - 4" x 6"	1		
	TH-43	17	W4-1		MERGING TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		18	R1-2		YIELD	36" x 36" x 36"	1 - 4" x 6"	1		
		19	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
		20		G78-1(CA)	I-5 SOUTH	66" x 42"	2 - 4" x 6"	1		
		21		SC18(CA)	EXIT WITH ARROW	48" x 48"	1 - 6" x 6"	1		
	TH-44	22	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
		23		G78-1(CA)	I-5 NORTH	66" x 42"	2 - 4" x 6"	1		
		24		SC18(CA)	EXIT WITH ARROW	48" x 48"	1 - 6" x 6"	1		
	TH-45	25	W3-2		YIELD AHEAD	36" x 36"	1 - 4" x 6"	1		
		26	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	1		
		27	W4-1		MERGING TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		28	R1-2		YIELD	36" x 36" x 36"	1 - 4" x 6"	1		
		29	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
		30	W3-2		YIELD AHEAD	36" x 36"	1 - 4" x 6"	1		
	TH-46	31	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	1		
		32	W20-4(Mod)		ONE LANE ROAD AHEAD	36" x 36"	1 - 4" x 6"	1		
		33	R1-2		YIELD	36" x 36" x 36"	1 - 4" x 6"	1		
		34	W4-1		MERGING TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		35	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	1		
	TH-47	36	W21-5bR		RIGHT SHOULDER CLOSED 1000'	36" x 36"	1 - 4" x 6"	1		
		37		C30A(CA)	SHOULDER CLOSED	30" x 30"	1 - 4" x 4"	1		
	TH-48	38	R2-1(45 mph)		SPEED LIMIT 45 MPH	36" x 48"		1		MOUNT ON PORTABLE SPEED TRAILER
		39	W6-3		TWO-WAY TRAFFIC SYMBOL	36" x 36"	1 - 4" x 6"	1		
		40		W74(CA)(R†)	THRU TRAFFIC MERGE RIGHT	36" x 36"	1 - 4" x 6"	1		
STAGE V PHASE I	TH-49	1	W3-5a(45 mph)		45 MPH SPEED ZONE AHEAD	36" x 36"	1 - 4" x 6"	2		
		2	R2-1(45 mph)		SPEED LIMIT 45 MPH	24" x 30"	1 - 4" x 4"	2		
		3	W20-5L(1000')		LEFT LANE CLOSED 1000'	36" x 36"	1 - 4" x 6"	2		
	TH-50	4	W20-5L		LEFT LANE CLOSED AHEAD	36" x 36"	1 - 4" x 6"	2		
		5		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	2		
		6	W4-2L		LEFT LANE ENDS	36" x 36"	1 - 4" x 6"	2		
		7		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
							TOTAL THQ-4		6	

TRAFFIC HANDLING QUANTITIES

THQ-4

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

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: HUE NGUYEN
CHECKED BY
REVISED BY: RAJINI TEKALKOTE
DATE REVISED: 09-30-15 RT; 10-12-15 RT; 12-08-15 RT

LAST REVISION 12-08-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	218	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 CIVIL STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (TRAFFIC HANDLING)

STAGE	SHEET No.	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGN EACH	TYPE III BARRICADE	REMARKS
STAGE V PHASE I	TH-51	8		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		9		W74(CA)(L+)	THRU TRAFFIC MERGE LEFT	36" x 36"	1 - 4" x 6"	1		
		10		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		11		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
		12		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
	TH-52	13		W74(CA)(L+)	THRU TRAFFIC MERGE LEFT	36" x 36"	1 - 4" x 6"	1		
		14		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		15		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
		16		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		17		C30(CA)	LANE CLOSED	30" x 30"	1 - 4" x 4"	1		
	TH-53	18		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		19		W74(CA)(L+)	THRU TRAFFIC MERGE LEFT	36" x 36"	1 - 4" x 6"	1		
		20	W4-2		LANE ENDS	36" x 36"	1 - 4" x 6"	2		
	TH-54	21	W4-2		LANE ENDS	36" x 36"	1 - 4" x 6"	2		
STAGE V PHASE II	TH-55	1	W20-5R(1000')		RIGHT LANE CLOSED 1000'	36" x 36"	1 - 4" x 6"	2		
	TH-56	2	W20-5R		RIGHT LANE CLOSED AHEAD	36" x 36"	1 - 4" x 6"	2		
		3	W4-2R		RIGHT LANE ENDS	36" x 36"	1 - 4" x 6"	2		
		4		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
	TH-57	5		SPECIAL	EXIT RAMP USE RIGHT LANE	54" x 36"	2 - 4" x 6"	1		
		6		SC18(CA)	EXIT WITH ARROW	48" x 48"	1 - 4" x 6"	1		
		7		SC3(CA)	DETOUR WITH ARROW	36" x 12"	1 - 6" x 6"	1		
				G28-2(CA)(132)	STATE ROUTE MARKER 132	21" x 18"				
			M3-2		EAST	24" x 12"				
		8	W4-2R		LANE ENDS	36" x 36"	1 - 4" x 6"	1		
		9		SC3(CA)	DETOUR WITH ARROW	36" x 12"	1 - 6" x 6"	1		
				G28-2(CA)(132)	STATE ROUTE MARKER 132	21" x 18"				
			M3-2		EAST	24" x 12"				
		10		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
		11	R1-2		YIELD	36" x 36" x 36"	1 - 4" x 6"	1		
		12		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		13	W21-5bL(Mod)		LEFT SHOULDER CLOSED AHEAD	36" x 36"	1 - 4" x 6"	1		
		14	W12-1		DOUBLE ARROW	30" x 30"	1 - 4" x 4"		3	MOUNT ON BARRICADE
	TH-58	15		C30A(CA)	SHOULDER CLOSED	30" x 30"	1 - 4" x 4"	1		
		16		SC3(CA)	DETOUR WITH ARROW	36" x 12"	1 - 4" x 6"	1		
				G28-2(CA)(132)	STATE ROUTE MARKER 132	21" x 18"				
			M3-2		EAST	24" x 12"				
		17		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		18		C44(CA)	TRUCKS ENTERING EXITING	36" x 36"	1 - 4" x 6"	1		
		19		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		20	W12-1		DOUBLE ARROW	30" x 30"	1 - 4" x 4"	1		
	TH-59	21		C30(CA)	LANE CLOSED	30" x 30"		1	3	MOUNT ON BARRICADE
		22	W4-1		MERGE	36" x 36"		1		
				C29(CA)(800')	800 FT	36" x 9"				
		23	W1-4		CURVE SYMBOL	36" x 36"	1 - 4" x 6"	1		
		24	W3-2		YIELD AHEAD	36" x 36"	1 - 4" x 6"	1		
		25	W4-1		MERGE	36" x 36"	1 - 4" x 6"	1		
		26	R1-2		YIELD	36" x 36" x 36"	1 - 4" x 6"	1		
		27		W74(CA)(L+)	THRU TRAFFIC MERGE LEFT	36" x 36"	1 - 4" x 6"	1		
	TH-60	28	R5-1		DO NOT ENTER	36" x 36"	1 - 4" x 6"	1		
			R5-1a		WRONG WAY	42" x 30"				
							TOTAL THQ-5		36	

TRAFFIC HANDLING QUANTITIES

THQ-5

RT	RT	RT	REVISED BY	RAJINI TEKALKOTE	CALCULATED-DESIGNED BY	FUNCTIONAL SUPERVISOR	STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
12-08-15	10-12-15	09-30-15	DATE REVISED	HUE NGUYEN	CHECKED BY	MOHAMMED QATAMI	Caltrans 06-TRAFFIC DESIGN

LAST REVISION 12-08-15 DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	219	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 CIVIL STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (TRAFFIC HANDLING)

STAGE	SHEET No.	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGN EACH	TYPE III BARRICADE	REMARKS
	TH-61	1	W21-5		SHOULDER WORK	36" x 36"	1 - 4" x 6"	1		
		2	W21-5bR		RIGHT SHOULDER CLOSED AHEAD	36" x 36"	1 - 4" x 6"	1		
		3		C30A(CA)	SHOULDER CLOSED	36" x 36"	1 - 4" x 6"	1		
	TH-62	4		C30A(CA)	SHOULDER CLOSED	36" x 36"	1 - 4" x 6"	1		
		5	W21-5bR		RIGHT SHOULDER CLOSED AHEAD	36" x 36"	1 - 4" x 6"	1		
		6	W21-5		SHOULDER WORK	36" x 36"	1 - 4" x 6"	1		
								TOTAL THQ-5	36	
								TOTAL THQ-4	6	
								TOTAL THQ-3	66	
								TOTAL THQ-2	12	
								TOTAL THQ-1	6	
								TOTAL MIQ-1	3	
								TOTAL	129	

TEMPORARY CRASH CUSHION AND CHANNELIZERS (SURFACE MOUNTED) QUANTITIES

STAGE	SHEET No.	CHANNELIZERS (SURFACE MOUNTED)	TEMPORARY CRASH CUSHION MODULE ARRAY "TS14"	TEMPORARY CRASH CUSHION MODULE ARRAY "TU14"	TEMPORARY ALTERNATIVE CRASH CUSHION
		EA	EA	EA	EA
STAGE II	TH-1	104			
	TH-2	49	28		
	TH-3	41	28		
	TH-4	28			
	TH-5	30			
	TH-6	58	28		
	TH-7	54	42		
	TH-8	35	14		
	TH-9	43	14		
	TH-10	69	42		
	TH-11	51	42		
	TH-12	58	42		
	TH-13	30			
	TH-14	28	14		
STAGE III PHASE I	TH-16	13	14		
	TH-17	30	14		
	TH-18	32			
	TH-19	31			
	TH-20	29	14		
	TH-21	33	28		
	TH-22	22	14		
STAGE III PHASE II	TH-26	14		21	
	TH-27	46		21	
	TH-28	60			
	TH-29	60			
	TH-30	34		21	
	TH-31	58		21	
	TH-32	42		21	
TOTAL 1		1182	378	105	

TEMPORARY CRASH CUSHION AND CHANNELIZERS (SURFACE MOUNTED) QUANTITIES

STAGE	SHEET No.	CHANNELIZERS (SURFACE MOUNTED)	TEMPORARY CRASH CUSHION MODULE ARRAY "TS14"	TEMPORARY CRASH CUSHION MODULE ARRAY "TU14"	TEMPORARY ALTERNATIVE CRASH CUSHION
		EA	EA	EA	EA
STAGE IV	TH-35	22	14		
	TH-36	52	28		
	TH-37	38	14		
	TH-38	34	14		
	TH-39	30			
	TH-40	46	28		
	TH-41	40	14		
	TH-42	39	28		
	TH-43	36	14		
	TH-44	52	42		
	TH-45	51	42		
	TH-46	49	28		
	TH-47	36	14		
	TH-48	21	14		
STAGE V PHASE I	TH-50	19	14		
	TH-51	31	14		
	TH-52	23	14		
	TH-53	31	14		
	TH-54	12	14		
STAGE V PHASE II	TH-56	39		21	
	TH-57	73		21	
	TH-58	58		21	
	TH-59	69		42	
	TH-60	17			
	TH-61	13			2
	TH-62	13			2
TOTAL 2		944	364	105	4
TOTAL 1		1182	378	105	
SUB-TOTAL		2126	742	210	4
TOTAL		2126	952		4

TRAFFIC HANDLING QUANTITIES

THQ-6

RT	12-08-15		
RT	10-27-15		
RT	09-30-15		
REVISED BY	DATE REVISED		
RAJINI TEKALKOTE	HUE NGUYEN		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI		

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

LAST REVISION 12-08-15 | DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	220	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 CIVIL STATE OF CALIFORNIA

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TEMPORARY RAILING (TYPE K) QUANTITIES

STAGE	SHEET No.	STATION LIMITS	TEMPORARY RAILING (TYPE K)	(N) TEMPORARY OBJECT MARKER (TYPE P)
			LF	EA
STAGE II	TH-2	STA 86+83 TO STA 91+03	420	1
	TH-6	STA 145+50 TO STA 148+70	320	1
		STA 148+25 TO STA 150+45	220	1
	TH-7	STA 162+54 TO STA 164+54	200	1
		STA 164+15 TO STA 166+15	200	1
	TH-9	STA 194+00 TO STA 196+00	200	1
		STA 196+30 TO STA 196+50	20	
	TH-10	STA 196+50 TO STA 199+90	340	1
		STA 208+72 TO STA 210+52	180	1
		STA 211+30 TO STA 211+50	20	
	TH-11	STA 211+50 TO STA 217+50	600	1
		STA 217+58 TO STA 219+18	160	1
	TH-12	STA 228+20 TO STA 230+60	240	1
		STA 230+75 TO STA 232+75	200	1
	TH-14	STA 257+27 TO STA 259+87	260	1
STAGE III PHASE I	TH-16	STA 144+82 TO STA 149+42	460	2
	TH-17	STA 163+38 TO STA 166+18	280	1
	TH-19	STA 194+30 TO STA 196+50	220	
	TH-20	STA 196+50 TO STA 198+30	180	1
		STA 208+70 TO STA 211+50	280	
	TH-21	STA 211+50 TO STA 212+30	80	1
		STA 216+35 TO STA 219+15	280	1
	TH-22	STA 229+71 TO STA 232+51	280	
STAGE III PHASE II	TH-26	STA 146+14 TO STA 150+14	400	1
		STA 146+14 TO STA 150+14	400	1
	TH-27	STA 162+65 TO STA 165+45	280	1
		STA 162+65 TO STA 165+45	280	1
	TH-29	STA 195+10 TO STA 196+50	140	
		STA 195+10 TO STA 196+50	140	
	TH-30	STA 196+50 TO STA 199+70	320	1
		STA 196+50 TO STA 199+70	320	1
	TH-31	STA 215+30 TO STA 218+50	320	1
		STA 215+30 TO STA 218+50	320	1
	TH-32	STA 228+76 TO STA 231+76	300	1
		STA 228+76 TO STA 231+76	300	1
STAGE IV	TH-35	STA 67+15 TO STA 68+75	160	1
	TH-40	STA 143+33 TO STA 145+93	260	1
		STA 146+93 TO STA 148+33	140	1
	TH-42	STA 173+06 TO STA 179+26	620	1
		STA 180+90 TO STA 181+50	60	1
	TH-43	STA 181+50 TO STA 182+70	120	
		STA 193+50 TO STA 196+50	300	1
		TOTAL 1	10,820	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

TEMPORARY RAILING (TYPE K) QUANTITIES

STAGE	SHEET No.	STATION LIMITS	TEMPORARY RAILING (TYPE K)	(N) TEMPORARY OBJECT MARKER (TYPE P)
			LF	EA
STAGE IV	TH-44	STA 196+50 TO STA 197+50	100	
		STA 197+36 TO STA 199+36	200	1
		STA 207+30 TO STA 210+50	320	1
		STA 210+90 TO STA 211+50	60	1
	TH-45	STA 211+50 TO STA 216+90	540	
		STA 217+40 TO STA 220+00	260	1
		STA 224+30 TO STA 226+50	220	1
	TH-46	STA 226+50 TO STA 228+70	220	
		STA 230+50 TO STA 233+70	320	1
	TH-47	STA 255+90 TO STA 256+50	60	1
	TH-48	STA 256+50 TO STA 261+50	500	1
STAGE V PHASE I	TH-50	STA 178+10 TO STA 181+50	340	1
	TH-51	STA 181+50 TO STA 182+50	100	
		STA 195+30 TO STA 196+50	120	1
	TH-52	STA 196+50 TO STA 199+10	260	
		STA 208+50 TO STA 211+50	300	1
	TH-53	STA 211+50 TO STA 211+70	20	
		STA 215+40 TO STA 218+80	340	1
	TH-54	STA 227+60 TO STA 232+20	460	1
STAGE V PHASE II	TH-56	STA 176+70 TO STA 181+50	480	1
		STA 176+70 TO STA 181+50	480	1
	TH-57	STA 181+50 TO STA 182+30	80	
		STA 181+50 TO STA 182+30	80	
		STA 195+50 TO STA 196+50	100	1
		STA 195+50 TO STA 196+50	100	1
	TH-58	STA 196+50 TO STA 199+70	320	
		STA 196+50 TO STA 199+70	320	
		STA 209+10 TO STA 211+50	240	1
		STA 209+10 TO STA 211+50	240	1
	TH-59	STA 211+50 TO STA 212+70	120	
		STA 211+50 TO STA 212+70	120	
		STA 214+65 TO STA 218+05	340	1
		STA 214+65 TO STA 218+05	340	1
		STA 225+70 TO STA 226+50	80	1
		STA 225+70 TO STA 226+50	80	1
	TH-60	STA 226+50 TO STA 231+10	460	
		STA 226+50 TO STA 231+10	460	
	TH-61	STA 348+80 TO STA 356+20	740	2
	TH-62	STA 348+80 TO STA 355+40	660	2
		TOTAL 2	10,580	
		TOTAL 1	10,820	
		TOTAL	21,400	

TRAFFIC HANDLING QUANTITIES
THQ-7

REVISED BY	DATE REVISED
RT	12-08-15
RT	09-30-15
RT	08-12-15

CALCULATED-DESIGNED BY: FERNANDO LOPEZ
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 12-08-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	221	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 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.

TEMPORARY PAVEMENT DELINEATION

STAGE	SHEET No.	DIRECTION	STATION LIMIT/ LOCATION	DETAIL No.	TEMPORARY PAVEMENT MARKER NON-TYPE A	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE H	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE D	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE C	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE G	TEMPORARY TRAFFIC STRIPE (PAINT)	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING
					EA	EA	EA	EA	EA	LF	LF	LF	EA	SQFT
STAGE II	TH-1	EB	STA 60+08 TO STA 77+50	12, 25							1,742	436	76	
		WB		12,25,27B,36							189	545	18	
		EB/WB		22M,25,27B,36	120	19	60		10	2,440				
		WB	RAMP	25A, 27B, 36		12			16	1,319				
	TH-2	EB	STA 77+50 TO STA 92+50	12, 25, 27B							1,500	867	66	42
		EB/WB		22M, 27B	254		128			3,492				
	TH-3	EB	STA 92+50 TO STA 107+50	12, 25, 27B							1,500	1,535	37	84
		EB/WB		22M, 27B	254		128			4,500				
	TH-4	EB	STA 107+50 TO STA 121+50	25, 27B							1,400	1,400	30	
		EB/WB		22M, 27B	238		120			4,200				
	TH-5	EB	STA 121+50 TO STA 136+50	12, 25, 27B							1,500	1,532	37	
		EB/WB		22M, 27B	254		128			3,000				
	TH-6	EB	STA 136+50 TO STA 151+50	12, 25, 27B							1,500	1,253	66	
		WB		12, 25, 27B							370	352	17	
		WB	RAMP	25A, 27B							274	225	13	
		EB/WB	STA 136+50 TO STA 151+50	22M, 27B	254		128			3,878				
		WB	RAMP	25A, 27B, 36B		17			9	1,152				
	TH-7	EB	STA 151+50 TO STA 166+50	12, 25							1,500	375	66	
		WB		12,25,36,38B							193	346	20	
		WB	RAMP	27B, 36								1,065	31	
		EB/WB	STA 151+50 TO STA 166+50	22M, 27B, 36	254		128		8	3,000				
		WB	RAMP	25A, 27B, 36		16			8	1,010				
	TH-8	EB	STA 166+50 TO STA 181+50	12, 25							1,500	375	66	
		EB/WB		22M, 27B, 36	254		128		3	3,000				
		WB	RAMP	27B, 36					3	100				
	TH-9	EB	STA 181+50 TO STA 196+50	12, 25							1,500	375	66	
		WB		12, 25							137	29	8	
		EB/WB		22M, 27B	254		128			3,000				
		WB	RAMP	25A, 27B, 36B		7			9	686				
	TH-10	EB	STA 196+50 TO STA 211+50	12, 25							1,500	375	66	
		WB		12,25,37,38A							115	287	12	
		EB/WB		22M, 27B	254		128			3,000				
		WB	RAMP	25A, 27B, 36B		9			9	782				
	TH-11	EB	STA 211+50 TO STA 226+50	12, 25							1,500	375	66	
		WB		27B, 37, 38A								1,976	40	
		EB/WB		22M, 27B, 36	254		128		9	3,000				
		WB	RAMP	25A,27B,27C,36		29			9	1,742				
	TH-12	EB	STA 226+50 TO STA 241+50	12, 25							1,500	375	66	
		WB		12,25,27B,36							210	588	17	
		EB/WB		22M, 27B, 36	254		128		9	3,000				
		WB	RAMP	25A, 27B, 36		20			9	1,304				
	TH-13	EB	STA 241+50 TO STA 256+50	12, 25, 38C							1,500	196	593	168
		EB/WB		22M, 27B	254		128			4,500				
	TH-14	EB	STA 256+50 TO STA 263+48	27B								408		
		WB		27B								408		
		EB/WB		29							1,632		36	
		EB/WB		22M, 27B	120		60			1,396				
				SUB TOTAL	3272	129	1648		111	53,501	22,762	15,698	1513	294
				TOTAL THIS SHEET	5160					53,501	22,762	15,698	1513	294

TRAFFIC HANDLING QUANTITIES
THQ-8

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

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: RAJINI TEKALKOTE
CHECKED BY: HUE NGUYEN
REVISED BY / DATE REVISED: RT 08-12-15; RT 09-30-15; RT 12-08-15

LAST REVISION 12-08-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	222	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 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.

TEMPORARY PAVEMENT DELINEATION

STAGE	SHEET No.	DIRECTION	STATION LIMITS/ LOCATION	DETAIL No.	TEMPORARY PAVEMENT MARKER NON-RETROREFLECTIVE TYPE A	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE H	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE D	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE C	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE G	TEMPORARY TRAFFIC STRIPE (PAINT)	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING
					EA	EA	EA	EA	EA	LF	LF	LF	EA	SQFT
STAGE III PHASE I	TH-15	EB	STA 60+08 TO STA 136+50	12, 25		160			160	15,284				
		WB		12,25,36,27B		151			157	21,567				
		WB	RAMP	12, 25					12	506				
	TH-16	EB	STA 136+50 TO STA 151+50	12, 14A, 25		33		4	33	3,000				
		WB		12,25,27B,38A		33			11	3,930				
		WB	RAMP	25A, 36B		10			10	434				
	TH-17	EB	STA 151+50 TO STA 166+50	12, 25		33			33	3,000				
		WB		25,27B,36,38B		33			32	3,190				
		WB	RAMP	27B, 36					12	538		996	12	
	TH-18	WB	Sta 166+50 TO Sta 181+50	27B		33			33			1,500		
		EB		12, 25		33			6	3,000				
		WB		25,27B,37,38B				8	94	4,500				
	TH-19	WB	STA 181+50 TO STA 196+50	27B								520		
		EB		12, 25		33			33	3,000				
		WB		25,27B,37,38A		33		8	92	3,520				
	TH-20	WB	STA 196+50 TO STA 211+50	27B, 36								1,525	2	
		WB	RAMP	27B, 36B								1,623	24	
		EB	STA 196+50 TO STA 211+50	12, 14A, 25		33		4	33	3,000				
		WB		25,27B,36,38A		33			2	3,467				
		WB	RAMP	27B, 36B					24	1,082				
		WB	RAMP	36					2	25				
	TH-21	WB	STA 211+50 TO STA 226+50	27B								914		
		WB	RAMP	27B								656		
		EB	STA 211+50 TO STA 226+50	12, 14A, 25		33		4	33	3,000				
		WB		25,27B,36,37,38A,38B		33		8	42	4,500				
		WB	RAMP	27B, 36					2	52				
		WB	RAMP	27B, 36B					4	140				
		WB	RAMP	27B, 36					3	74				
	TH-22	WB	STA 226+50 TO STA 241+50	27B, 36								1,380	11	
		WB	RAMP	27B, 36								690	11	
		EB	STA 226+50 TO STA 241+50	12, 25		33			33	3,000				
		WB		12,25,27B,36,37,38A		33		8	79	4,500				
		WB	RAMP	27B, 36					11	460				
	TH-23	EB	STA 241+50 TO STA 256+50	12, 25		31			4	1,594				
		EB WB		29			8			142				
		WB		12, 25, 37		31		8	49	3,174				
	TH-24	EB WB	STA 256+50 TO STA 263+89	29			64			1,478				
STAGE III PHASE II	TH-26	WB	RAMP	25A, 27B		25					581	581		
		WB	STA 144+33 TO STA 151+50	25, 27B		16				1,434				
		WB	RAMP	25A, 27B, 36B		17			10	1,162				
	TH-27	WB	STA 151+50 TO STA 166+50	25, 27B		33				3,000				
	TH-28	WB	STA 166+50 TO STA 181+50	25, 27B		33				3,000				
	TH-29	WB	STA 181+50 TO STA 196+50	25, 27B		33				3,000				
	TH-30	WB	STA 196+50 TO STA 211+50	12, 25, 27B		38			9	3,941				
	TH-31	WB	STA 211+50 TO STA 226+50	25, 27B		33				3,000				
	TH-32	WB	STA 226+50 TO STA 238+00	25, 27B		45				3,250				
				SUB TOTAL		1118	72	52	1058	116,944	581	10,385	60	
				TOTAL THIS SHEET		2300				116,944	581	10,385	60	

TRAFFIC HANDLING QUANTITIES
THQ-9

REVISED BY	DATE REVISED
RT	12-08-15
RT	09-30-15
RT	08-12-15

CALCULATED-DESIGNED BY: RAJINI TEKALKOTE
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 12-08-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	223	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 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.

TEMPORARY PAVEMENT DELINEATION

STAGE	SHEET No.	DIRECTION	STATION LIMITS/ LOCATION	DETAIL No.	TEMPORARY PAVEMENT MARKER NON-TYPE A	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE H	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE D	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE C	TEMPORARY PAVEMENT MARKER RETROREFLECTIVE TYPE G	TEMPORARY TRAFFIC STRIPE (PAINT)	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	* REMOVE THERMOPLASTIC PAVEMENT MARKING
					EA	EA	EA	EA	EA	LF	LF	LF	EA	SQFT
STAGE IV	TH-35	EB/WB	STA 54+69 TO STA 77+50	22M, 25, 27B	116	22	58			1,961				
		EB	RAMP	25A, 27B, 36B		27			13	2,303				
	TH-36	EB/WB	STA 77+50 TO STA 92+50	22M, 27B	254		128			3,000				
	TH-37	EB/WB	STA 92+50 TO STA 107+50	22M, 27B	254		128			3,000				
	TH-38	EB/WB	STA 107+50 TO STA 121+50	22M, 27B	238		120			2,800				
	TH-39	EB/WB	STA 121+50 TO STA 136+50	22M, 27B	254		128			3,000				
	TH-40	EB/WB	STA 136+50 TO STA 151+50	22M, 27B, 36	254		128		9	3,000				
		EB	RAMP	25A, 27B, 36		19			9	1,240				
	TH-41	EB/WB	STA 151+50 TO STA 166+50	22M, 27B	254		128			3,000				
	TH-42	EB/WB	STA 166+50 TO STA 181+50	22M, 27B	254		128			3,000				
		EB	RAMP	25A, 27B		16				714				
	TH-43	EB/WB	STA 181+50 TO STA 196+50	22M, 27B, 36	254		128		8	3,000				
		EB	RAMP	27B, 36B					9	400				
		EB	RAMP	27B, 36					8	346				
	TH-44	EB/WB	STA 196+50 TO STA 211+50	22M, 27B, 36	254		128		11	3,000				
		EB	RAMP	25A, 27B, 36		27			2	1,280				
		EB	RAMP	25A, 27B, 36		9			9	760				
	TH-45	EB	STA 211+50 TO STA 226+50	37								180		
		EB/WB		22M, 27B	254		128			3,000				
		EB	RAMP	25A, 27B, 36B		28				1,415				
		EB	RAMP	25A, 27B		8				350				
	TH-46	EB/WB	STA 226+50 TO STA 241+50	22M, 27B	254		128			3,000				
		EB	RAMP	25A, 27B, 36B		21				1,448				
	TH-47	EB/WB	STA 241+50 TO STA 256+50	22M, 27B	254		128			3,000				
	TH-48	EB/WB	STA 256+50 TO STA 263+86	22M, 27B	126		64			1,336				
STAGE V PHASE I	TH-50	EB	STA 170+00 TO STA 181+50	12,25,27B,36A,37		25		8	47	3,036				
		EB	RAMP	36A					13	281				
	TH-51	EB	STA 181+50 TO STA 196+50	25, 27B, 37		33		8	96	4,500				
	TH-52	EB	STA 196+50 TO STA 211+50	25,27B,36,37,38A		33		8	43	4,412				
	TH-53	EB	STA 211+50 TO STA 226+50	8,25,27B,36,36A, 37,38A		33		8	44	4,432				
	TH-54	EB	STA 226+50 TO STA 234+00	8, 25, 27B		17				1,590				
STAGE V PHASE II	TH-56	EB	STA 170+00 TO STA 181+50	25, 27B		36				2,786				
	TH-57	EB	STA 181+50 TO STA 196+50	25, 27B, 36		40			32	3,620				
	TH-58	EB	STA 196+50 TO STA 211+50	25, 27B		66				4,500				
	TH-59	EB	STA 211+50 TO STA 226+50	25, 27B, 36B		52			36	4,812				
	TH-60	EB	STA 226+50 TO STA 234+00	25, 27B, 29		28	26			3,000				
				SUB TOTAL	3,272	540	1,676	32	389	86,322		180		
				TOTAL THIS SHEET	5,909					86,322		180		
				TOTAL THQ-9	2,300					116,944	581	10,385	60	
				TOTAL THQ-8	5,160					53,501	22,762	15,698	1,513	294
				TOTAL	13,369					256,767	23,343	26,263	1,573	294 *

* - TOTAL QUANTITY SHOWN ON PDQ SHEET

TRAFFIC HANDLING QUANTITIES
THQ-10

REVISED BY	DATE REVISED
RT	12-08-15
RT	10-12-15
RT	09-30-15

CALCULATED-DESIGNED BY: RAJINI TEKALKOTE
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 12-08-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	224	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

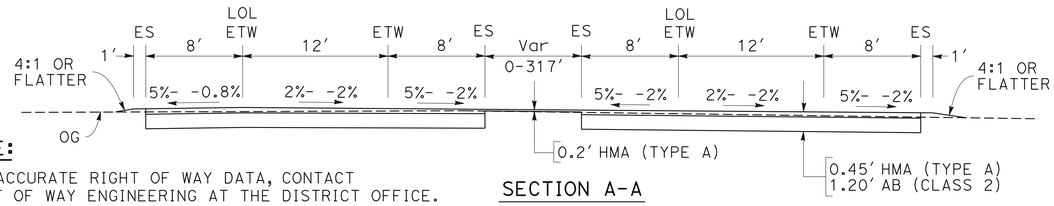
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

DESIGN DESIGNATION

2015 ADT 13,600 DHV = 1,360 D = 90%
2015 ADT 13,800 DHV = 1,380 T = 14%

CURVE DATA

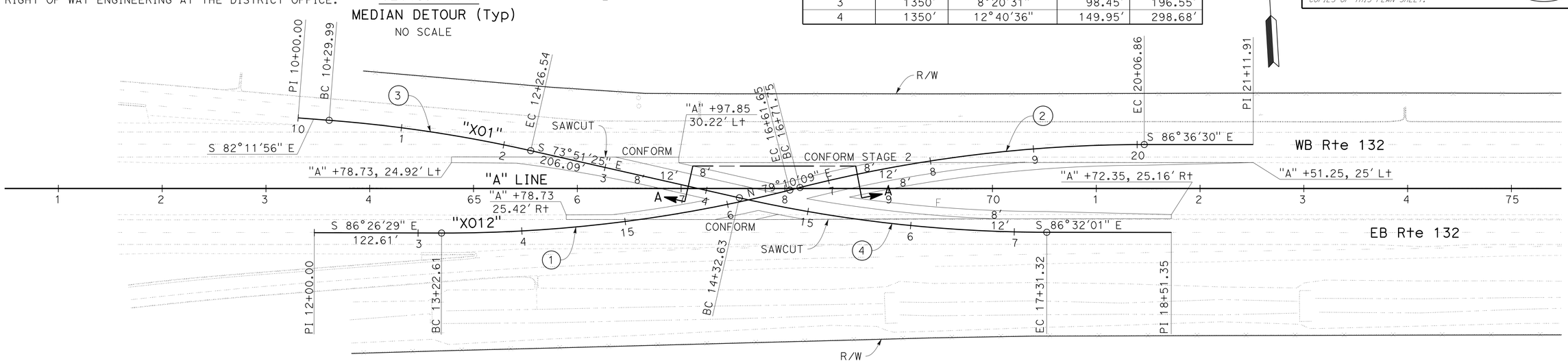
No. (X)	R	Δ	T	L
1	1350′	14°23′22"	170.42′	339.04′
2	1350′	14°13′21"	168.42′	335.11′
3	1350′	8°20′31"	98.45′	196.55′
4	1350′	12°40′36"	149.95′	298.68′



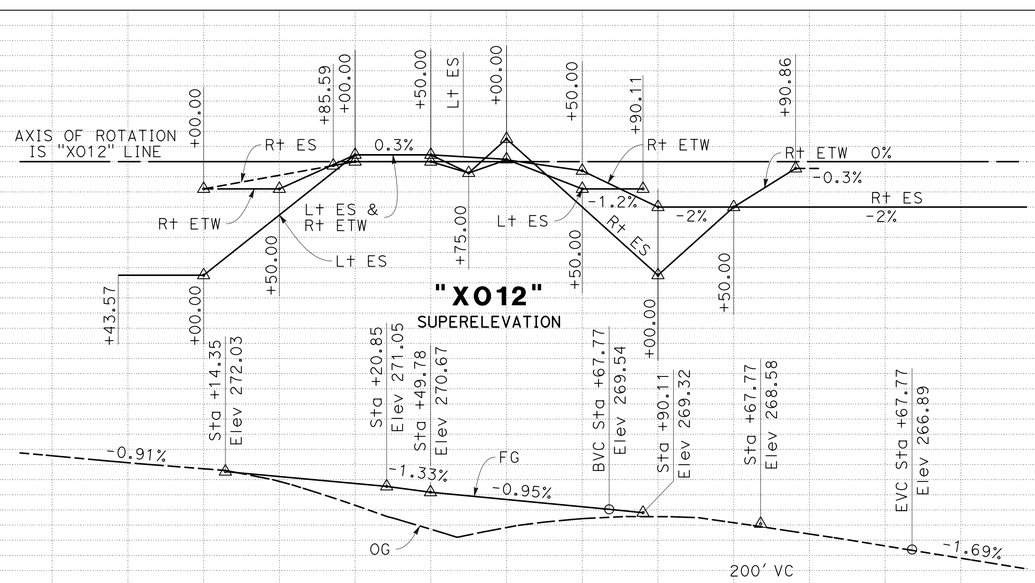
NOTE:

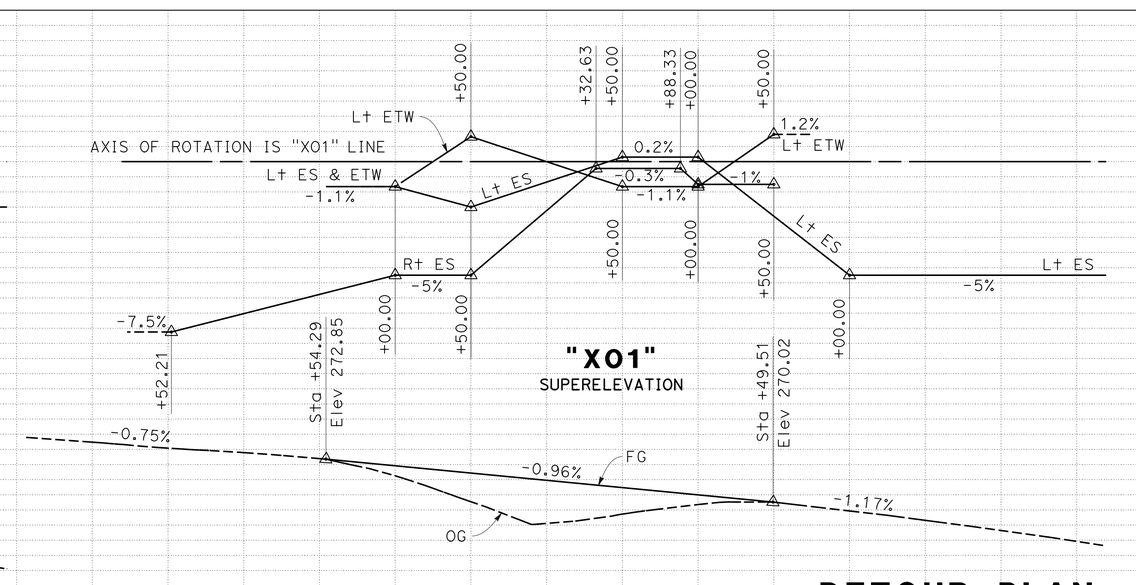
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

SECTION A-A
MEDIAN DETOUR (Typ)
NO SCALE



SCALE: 1"=50′





DETOUR PLAN

SCALE: Horiz 1"=50′
Vert 1"=5′

DE-1

APPROVED FOR DETOUR WORK ONLY

STATION	4	15	6	7	8	9	20	11	2	3	4	15	6	7	TOTAL
CY Exc		226							327						
CY Emb		93							157						

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN
FUNCTIONAL SUPERVISOR: NICHOLAS CHAN
CALCULATED-DESIGNED BY: TRIGONIO LEYVA
CHECKED BY: DANIEL HA
REVISED BY
DATE REVISED

LAST REVISION 10-18-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	225	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

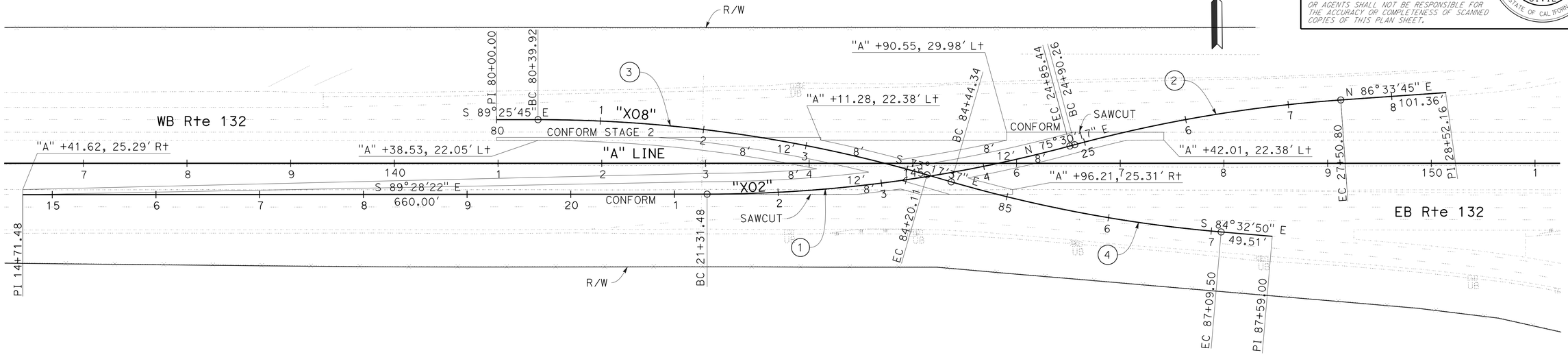
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

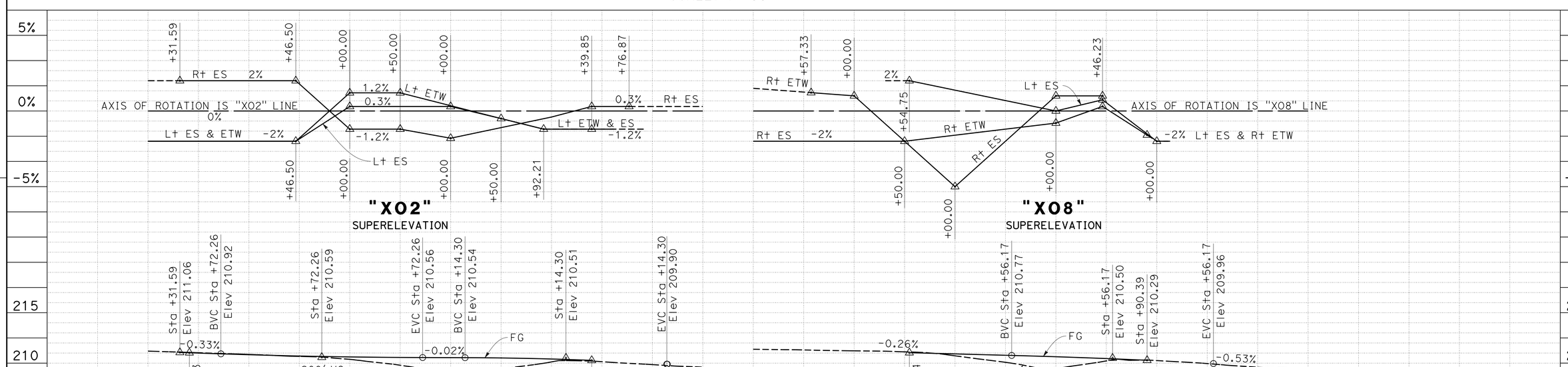
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. (X)	R	Δ	T	L
1	1350′	15°01′21″	178.00′	353.96′
2	1350′	11°03′28″	130.68′	260.54′
3	1350′	16°08′08″	191.36′	380.19′
4	1350′	11°15′13″	133.01′	265.16′



SCALE: 1″=50′



APPROVED FOR DETOUR WORK ONLY

DETOUR PLAN

SCALE: Horiz 1″=50′
Vert 1″=5′

DE-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: NICHOLAS CHAN
CALCULATED-DESIGNED BY: TRIGONIO LEYVA
CHECKED BY: DANIEL HA
REVISED BY
DATE REVISED

LAST REVISION 10-18-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	226	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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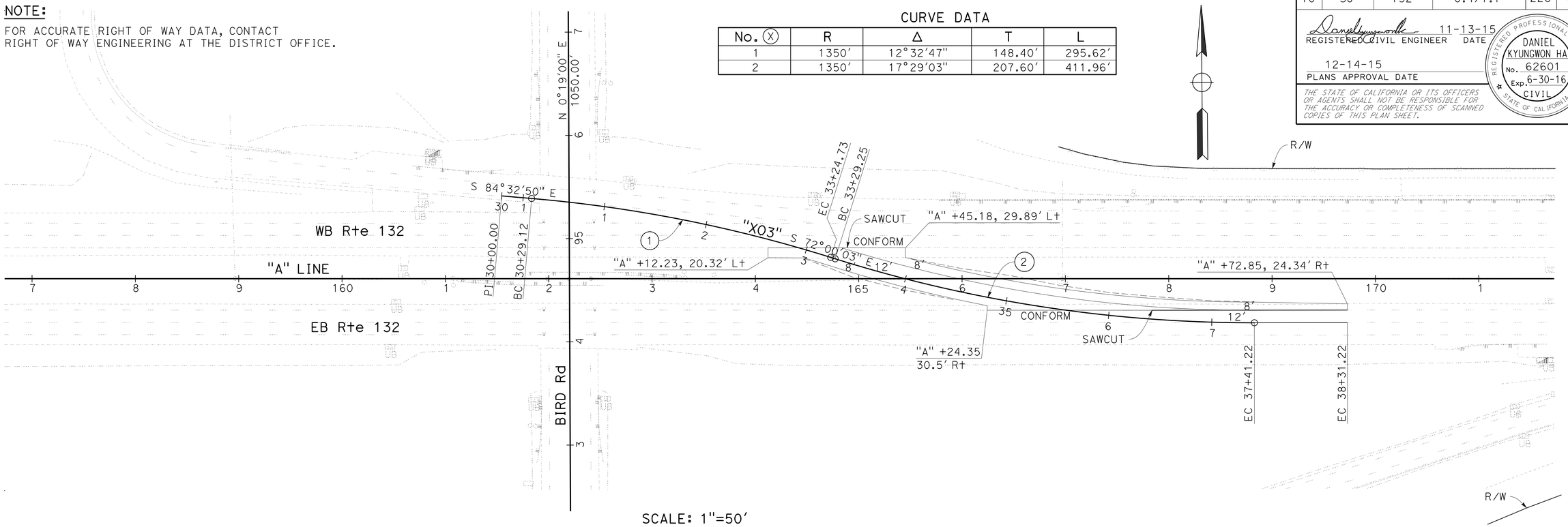
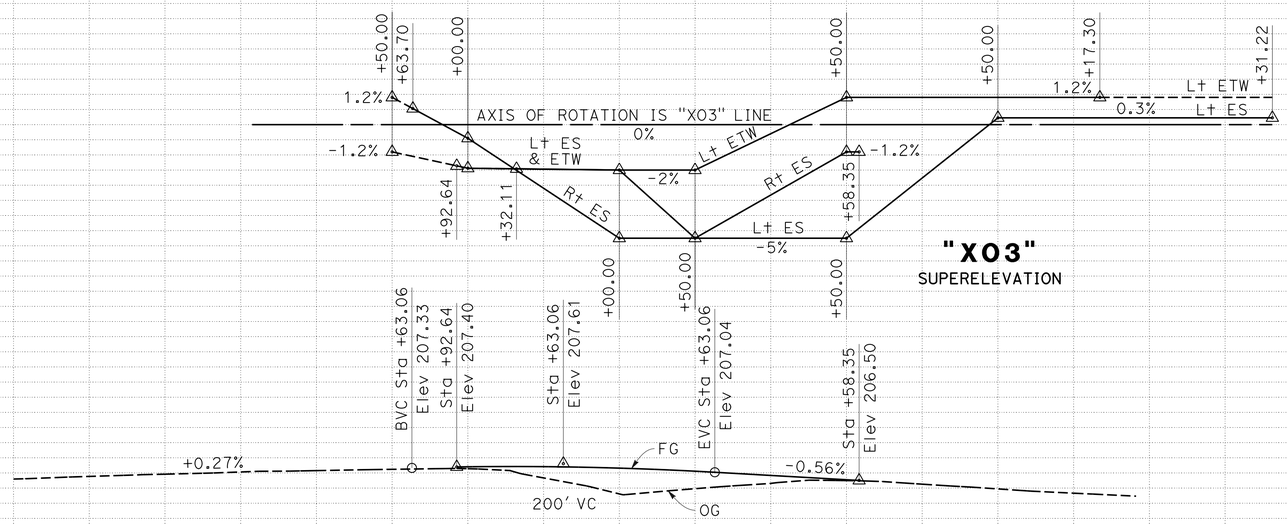
NOTE:

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

CURVE DATA

No. (X)	R	Δ	T	L
1	1350′	12°32′47″	148.40′	295.62′
2	1350′	17°29′03″	207.60′	411.96′





DETOUR PLAN
DE-3

SCALE: Horiz 1"=50′
Vert 1"=5′

STATION	30	1	2	3	4	35	6	7	8	TOTAL
CY Exc				384						
CY Emb				36						

REVISED BY | DATE REVISED
TRIGONIO LEYVA | DANIEL HA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | NICHOLAS CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION 10-18-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	227	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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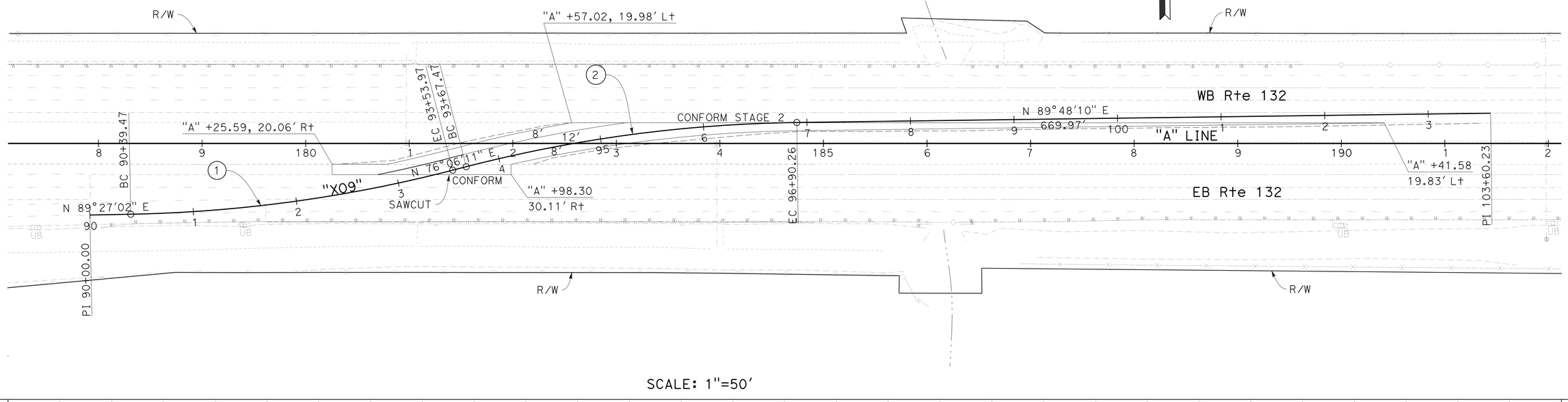
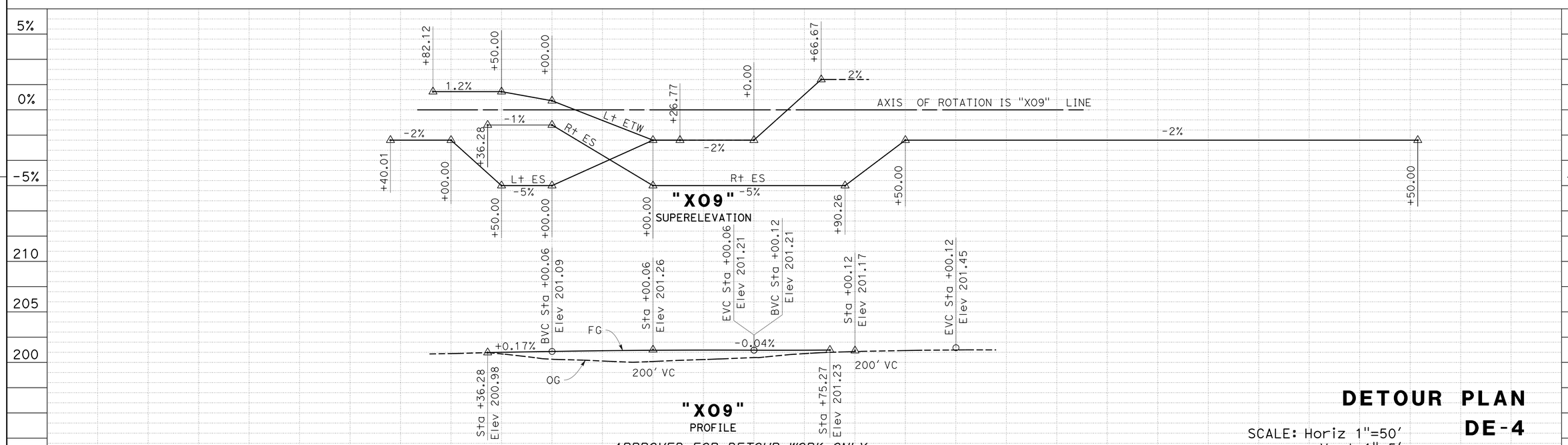
NOTE:

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

CURVE DATA

No. (X)	R	Δ	T	L
1	1350′	13°20′51″	157.96′	314.49′
2	1350′	13°41′59″	162.17′	322.79′





REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: TRIGONIO LEYVA
CHECKED BY: DANIEL HA
FUNCTIONAL SUPERVISOR: NICHOLAS CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
Caltrans

LAST REVISION 10-18-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	228	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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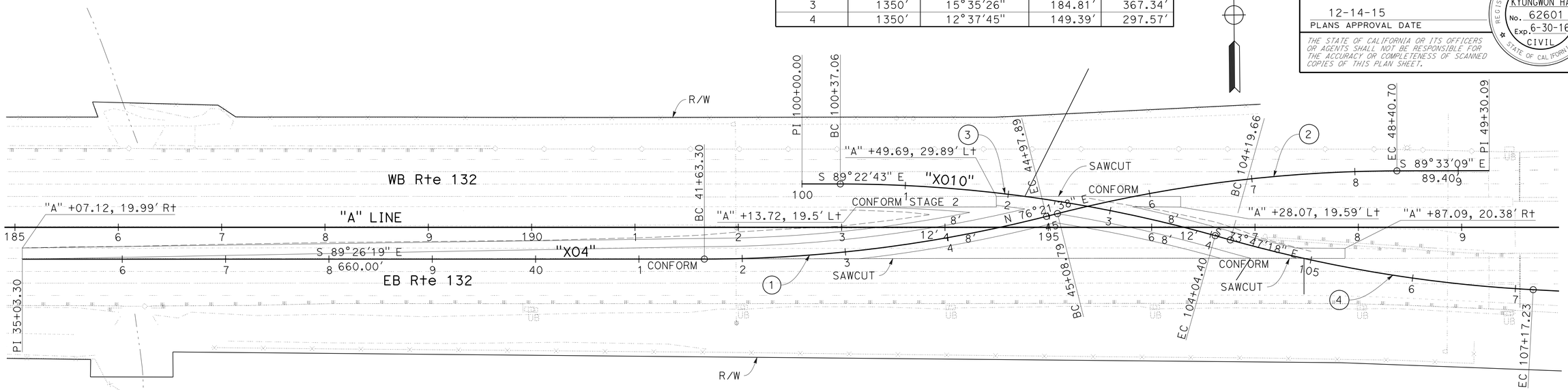
NOTE:

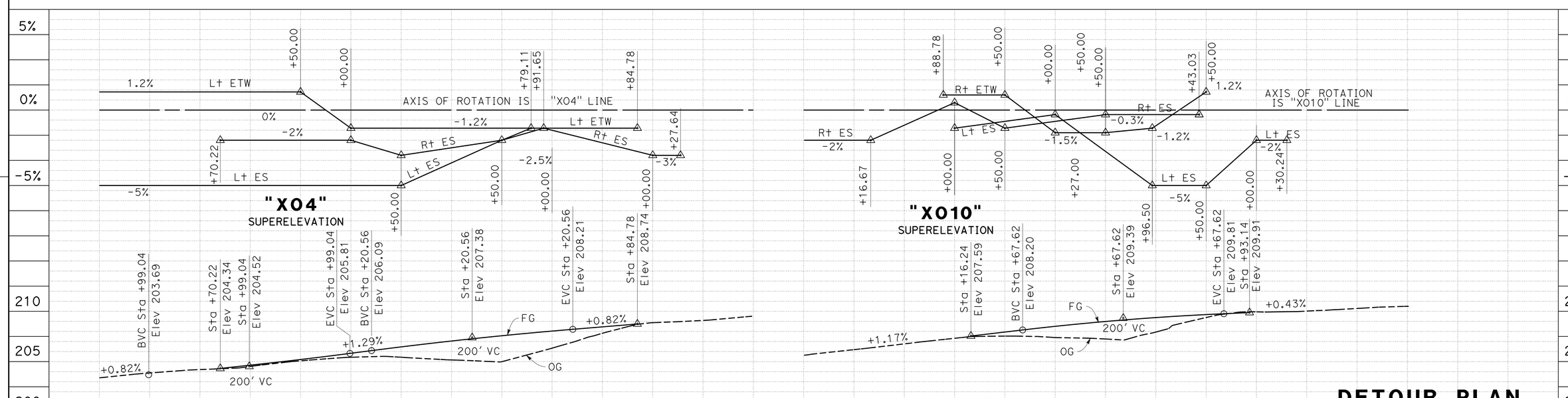
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. (X)	R	Δ	T	L
1	1350′	14°12′02"	168.16′	334.59′
2	1350′	14°05′12"	166.80′	331.91′
3	1350′	15°35′26"	184.81′	367.34′
4	1350′	12°37′45"	149.39′	297.57′



SCALE: 1"=50′



APPROVED FOR DETOUR WORK ONLY

DETOUR PLAN

DE-5

SCALE: Horiz 1"=50′
Vert 1"=5′

REVISED BY	DATE REVISED

TRIGONIO LEYVA — DANIEL HA

CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR — NICHOLAS CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — 06-DESIGN — Caltrans

LAST REVISION 10-18-15 — DATE PLOTTED => 11-JAN-2016 — TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	229	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

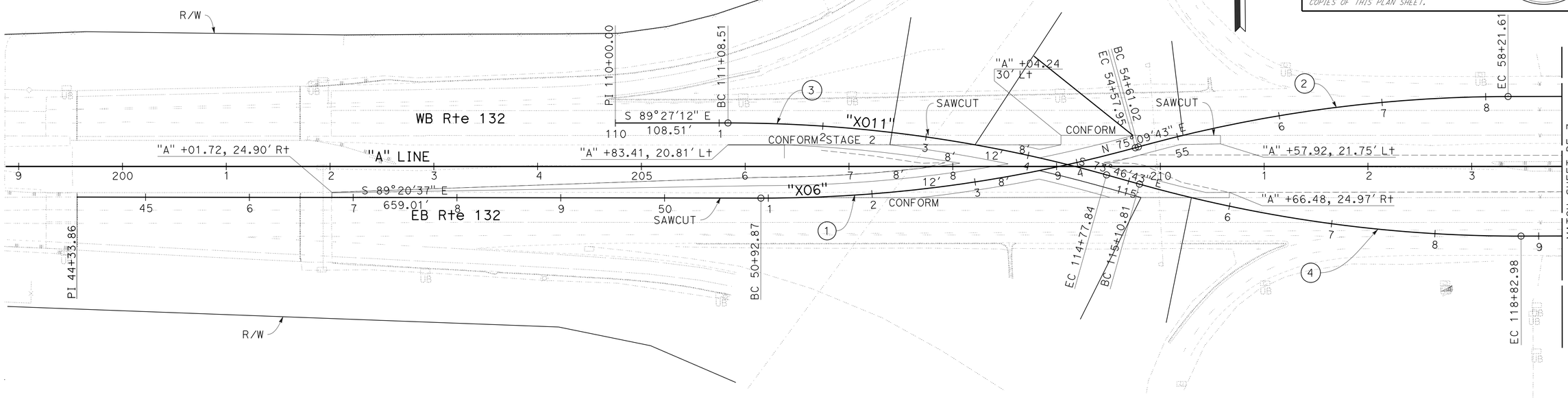
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

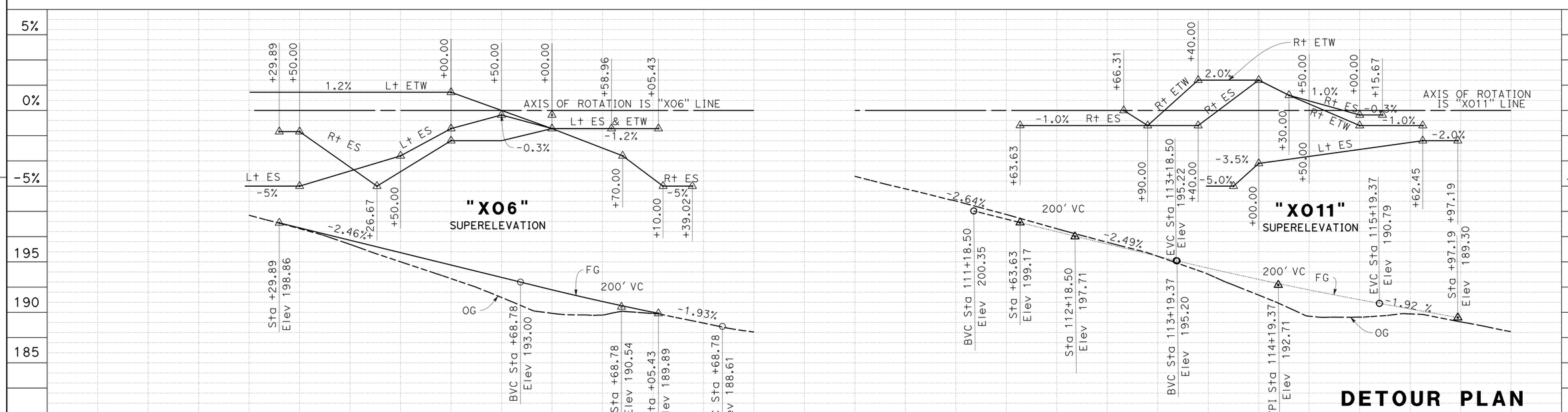
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. (X)	R	Δ	T	L
1	1350′	15°29′40"	183.66′	365.08′
2	1350′	15°18′14"	181.37′	360.59′
3	1350′	15°40′29"	185.82′	369.33′
4	1350′	15°47′43"	187.27′	372.17′



SCALE: 1"=50′



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
Caltrans

FUNCTIONAL SUPERVISOR: NICHOLAS CHAN
CALCULATED-DESIGNED BY: TRIGONIO LEYVA
CHECKED BY: DANIEL HA
REVISED BY
DATE REVISED

LAST REVISION 10-18-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	230	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

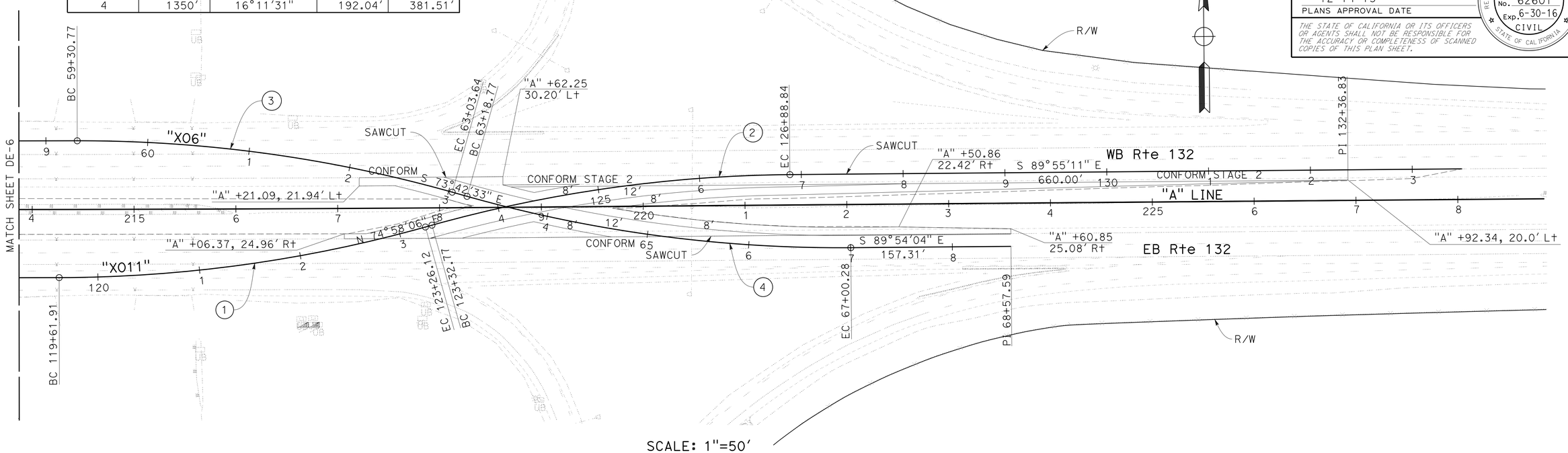
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CURVE DATA

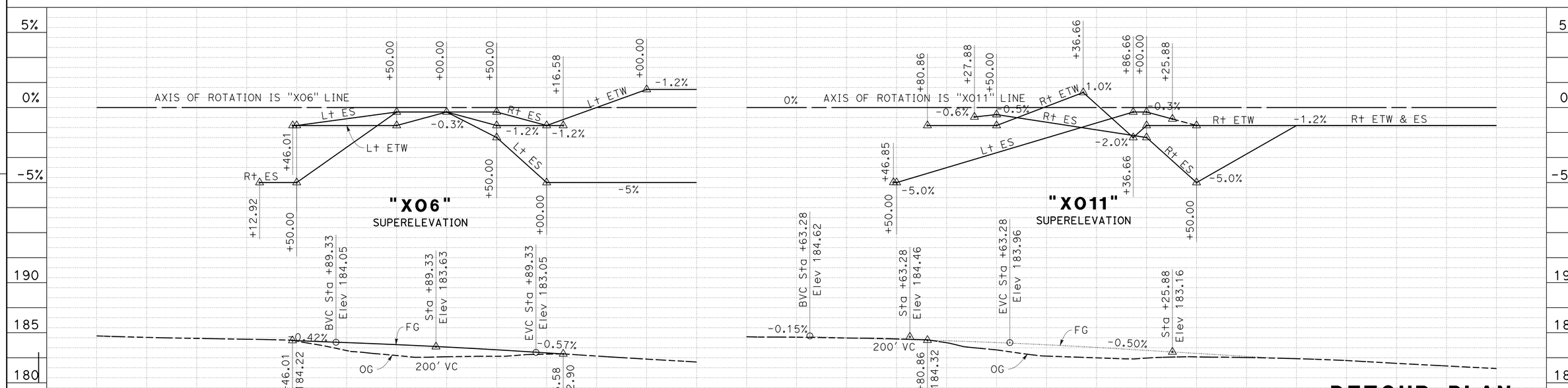
No. (X)	R	Δ	T	L
1	1350′	15°27′28″	183.22′	364.21′
2	1350′	15°06′43″	179.07′	356.07′
3	1350′	15°49′31″	187.63′	372.87′
4	1350′	16°11′31″	192.04′	381.51′

NOTE:

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



SCALE: 1"=50′



APPROVED FOR DETOUR WORK ONLY

DETOUR PLAN

SCALE: Horiz 1"=50′
Vert 1"=5′

DE-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: NICHOLAS CHAN

CALCULATED-DESIGNED BY: TRIGONIO LEYVA
CHECKED BY: DANIEL HA

REVISED BY
DATE REVISED

LAST REVISION: 10-18-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	231	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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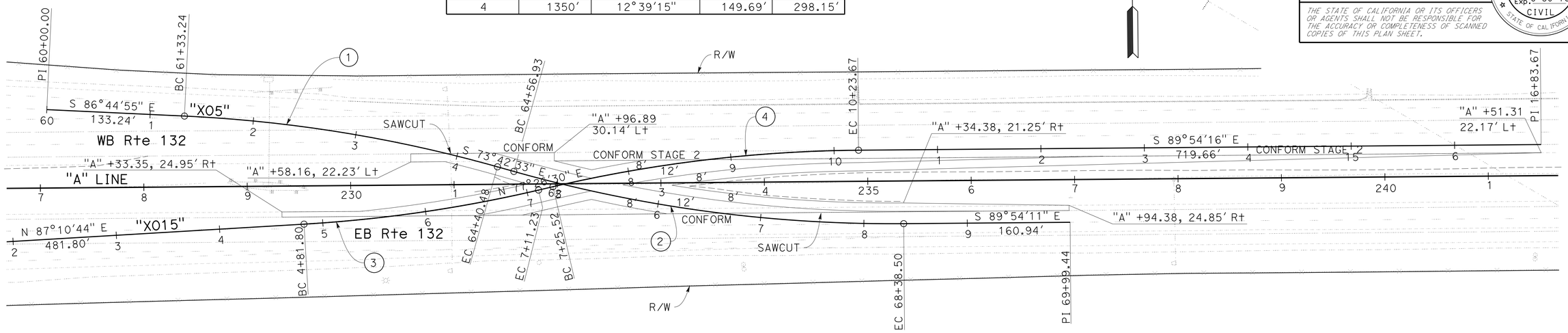
NOTE:

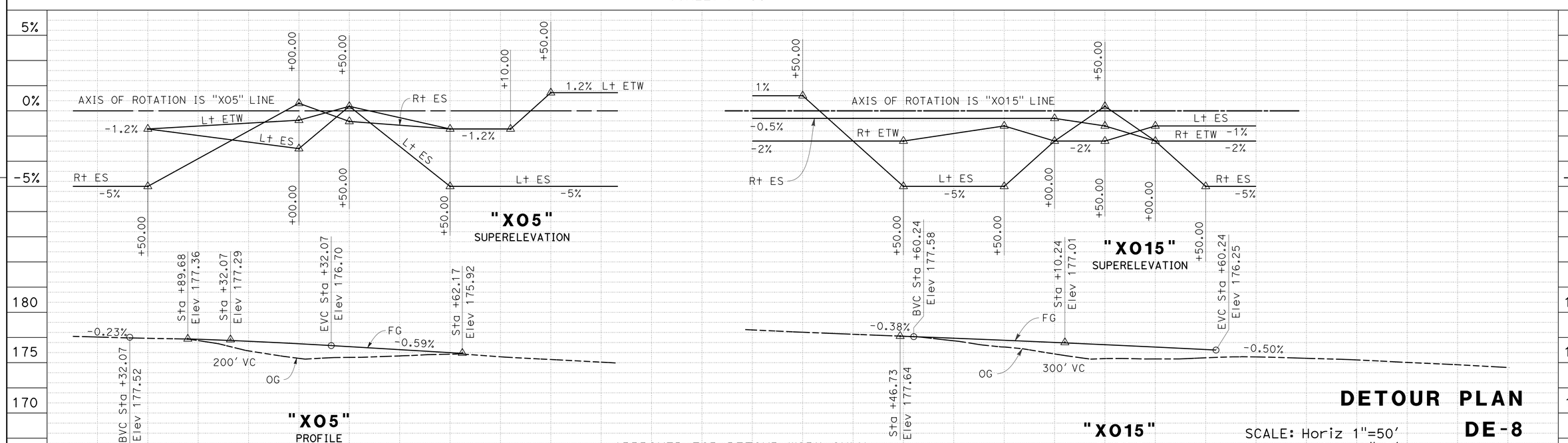
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. (X)	R	Δ	T	L
1	1350′	13°02′22"	154.29′	307.24′
2	1350′	16°11′40"	192.07′	381.58′
3	1350′	09°44′14"	114.99′	229.43′
4	1350′	12°39′15"	149.69′	298.15′



SCALE: 1"=50′



REVISED BY	
DATE REVISED	
TRIGONIO LEYVA	
DANIEL HA	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	NICHOLAS CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
Caltrans

LAST REVISION 10-18-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	232	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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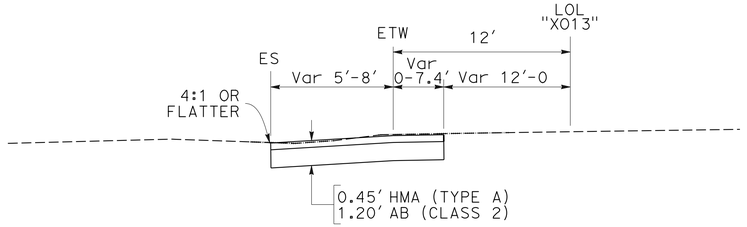


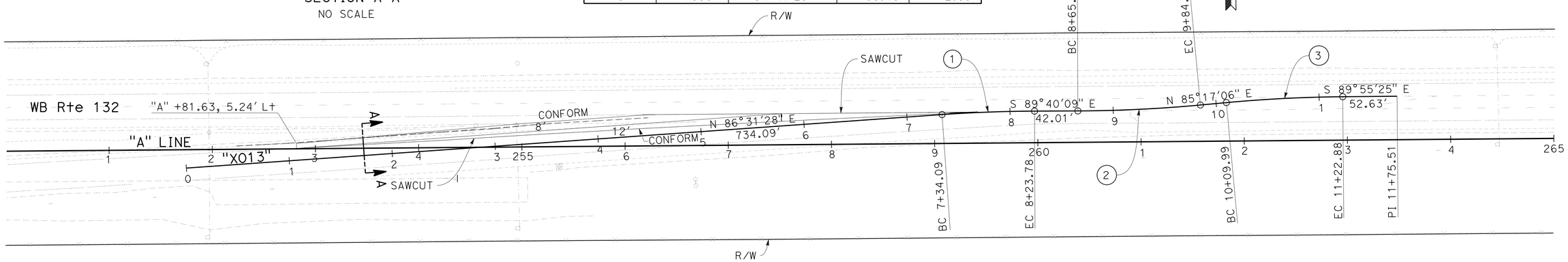
SECTION A-A
NO SCALE

NOTE:

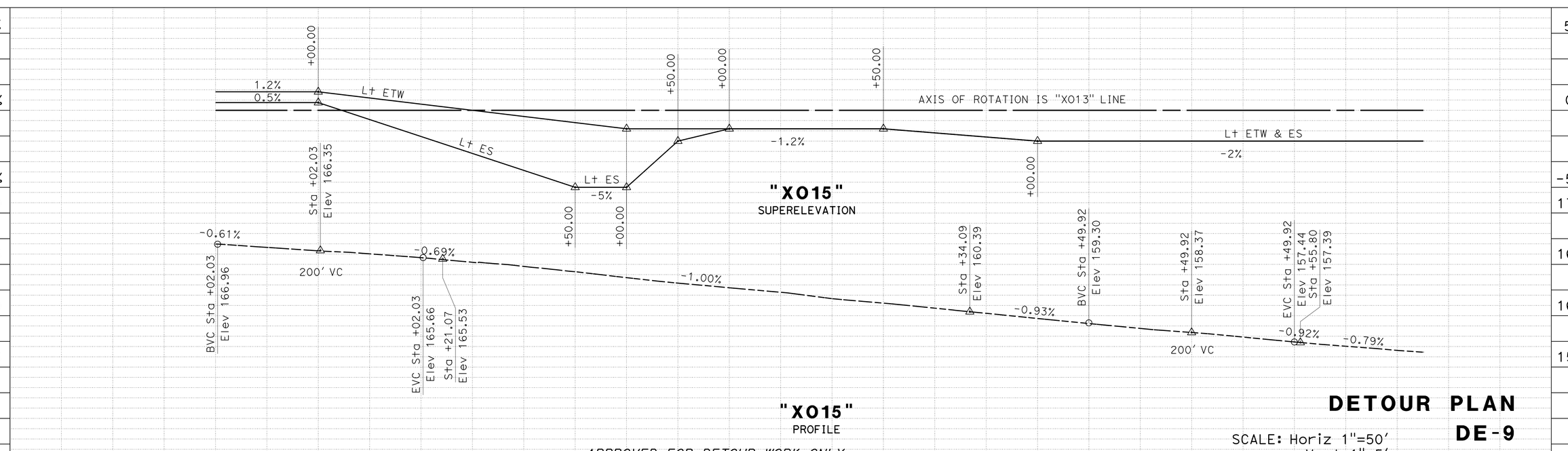
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. (X)	R	Δ	T	L
1	1350'	03°48'23"	44.86'	89.69'
2	1350'	05°02'45"	59.48'	118.89'
3	1350'	04°47'29"	56.48'	112.89'



SCALE: 1"=50'



DETOUR PLAN
DE-9

SCALE: Horiz 1"=50'
Vert 1"=5'

REVISED BY | DATE REVISED
TRIGONIO LEYVA | DANIEL HA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | NICHOLAS CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION 10-18-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	233	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

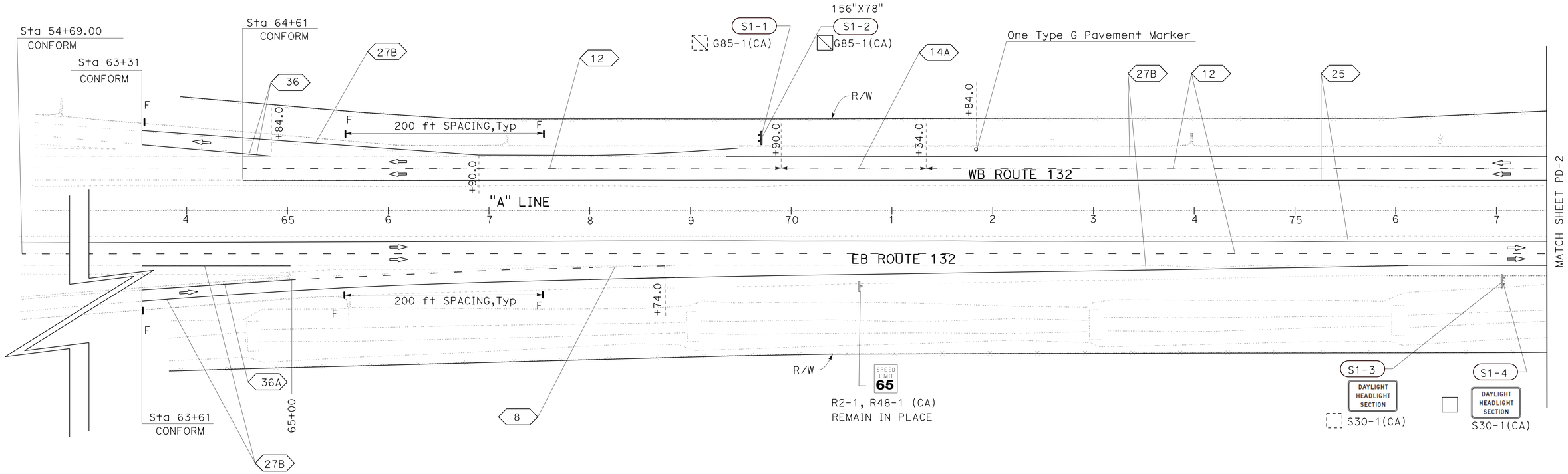
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

- CHANGE OF PAVEMENT DELINEATION DETAILS
- REMOVE ROADSIDE SIGN
- REMOVE SIGN PANEL
- INSTALL ROADSIDE SIGN PANEL ON EXISTING POST
- REMOVE SIGN ON ELECTROLIER
- INSTALL SIGN PANEL (STRAP AND SADDLE BRACKET METHOD)
- THERMOPLASTIC PAVEMENT MARKING
- REMOVE THERMOPLASTIC PAVEMENT MARKING
- INSTALL ROADSIDE SIGN
- F,G DELINEATORS (TYPE F OR G)
- GF,GG GUARD RAIL DELINEATOR (TYPE F OR G)
- L,K,P OBJECT MARKER (TYPE L,K,P)

NOTE:

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



PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-1

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	DATE REVISED
HN	12-04-15
FL	04-22-15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 10-01-15 | DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	234	424

REGISTERED ~~CIVIL~~ ENGINEER 10-01-15 DATE

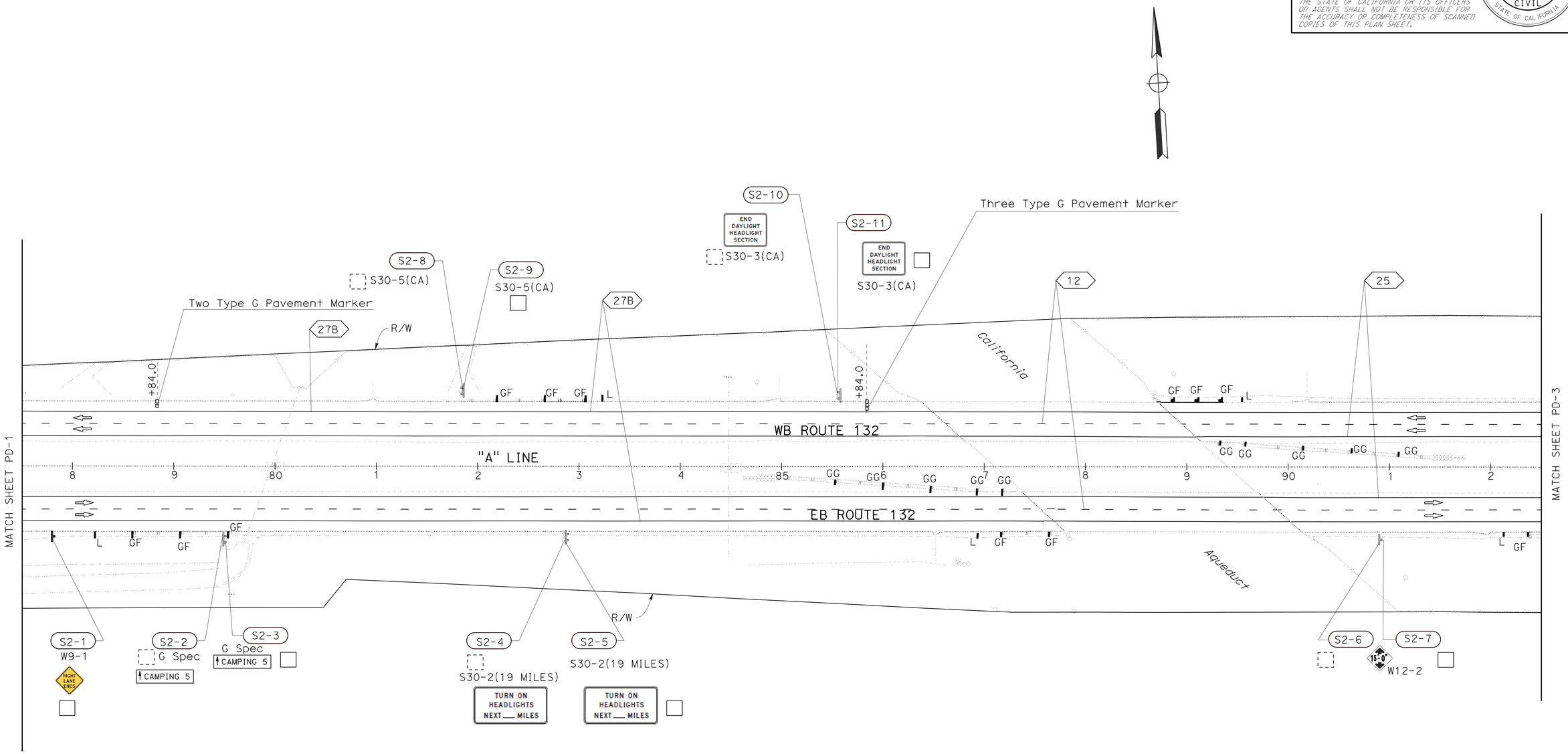
12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
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.

NOTE:

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



PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-2

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

HN	12-04-15	CECILE NGUYEN	
FL	06-08-15	HUE NGUYEN	
REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI		

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

LAST REVISION 10-01-15 | DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	235	424

REGISTERED ~~CIVIL~~ ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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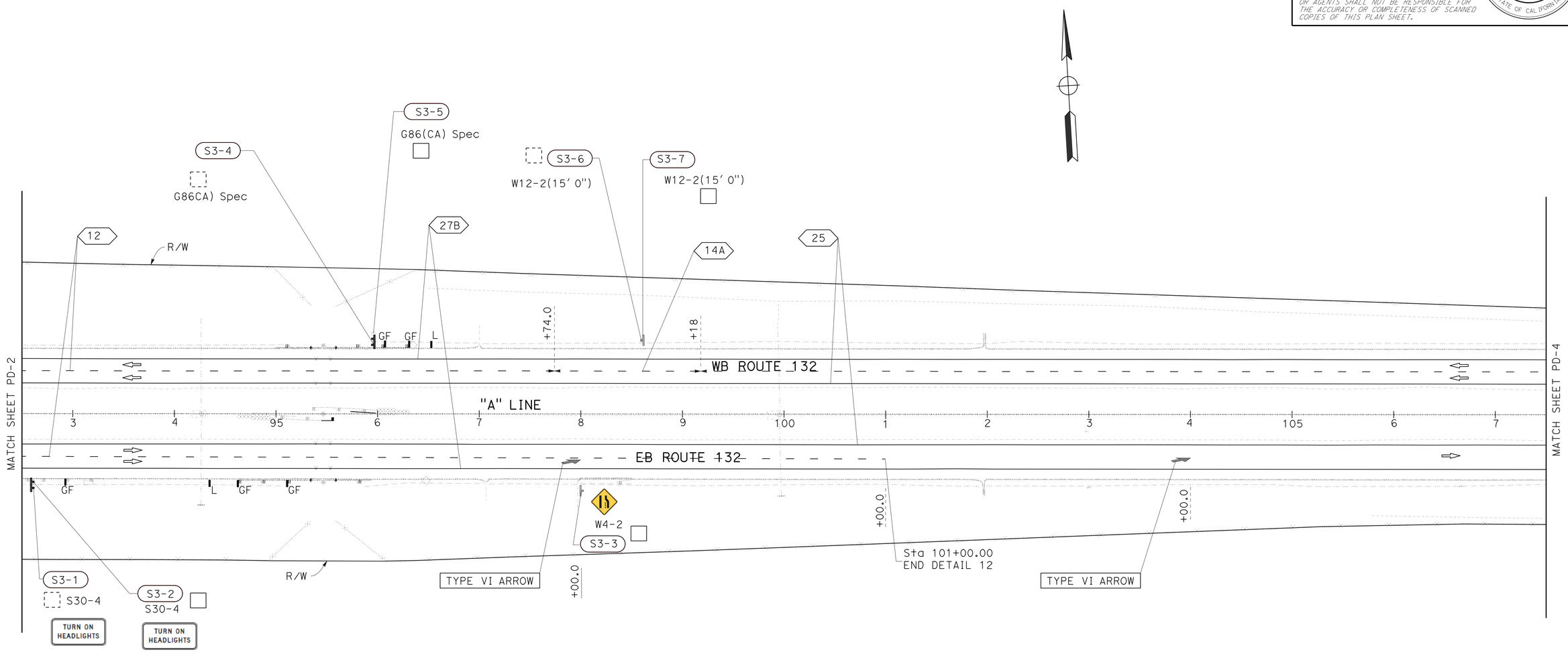
NOTE:

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



PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-3

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	DATE REVISED
HN	12-04-15
FL	04-23-15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 10-01-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	236	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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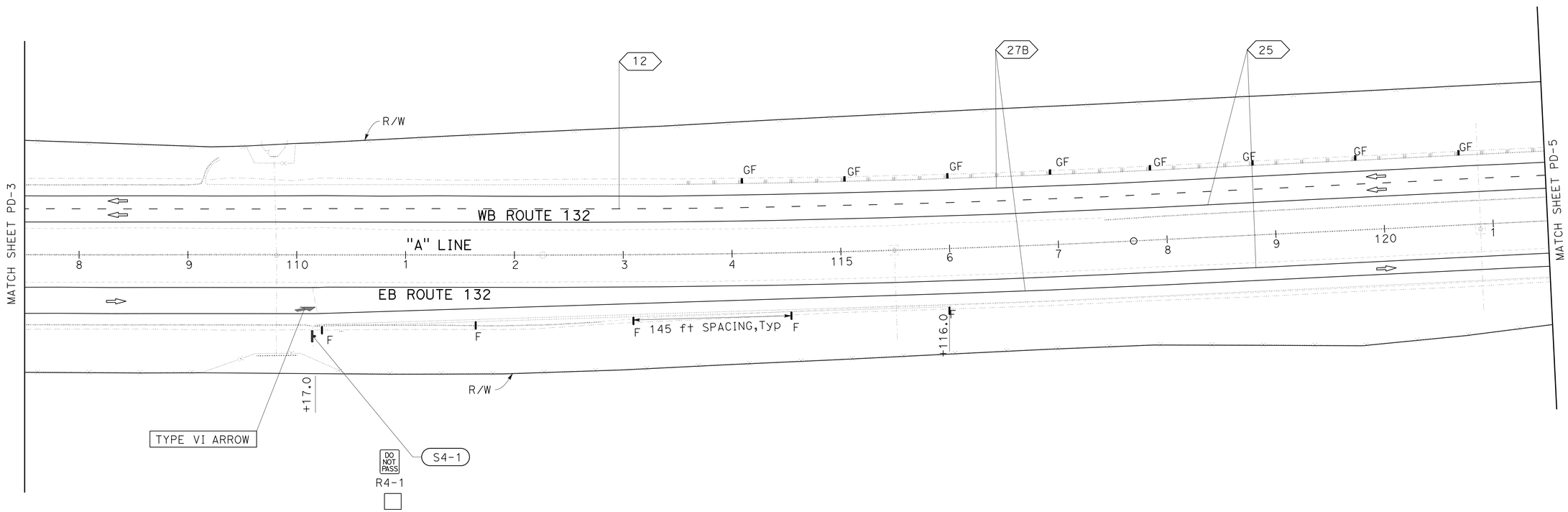

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-4

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

HN	12-04-15
FL	04-24-15
REVISED BY	DATE REVISED
CECILE NGUYEN	
HUE NGUYEN	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
MOHAMMED QATAMI	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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LAST REVISION 10-01-15 | DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	237	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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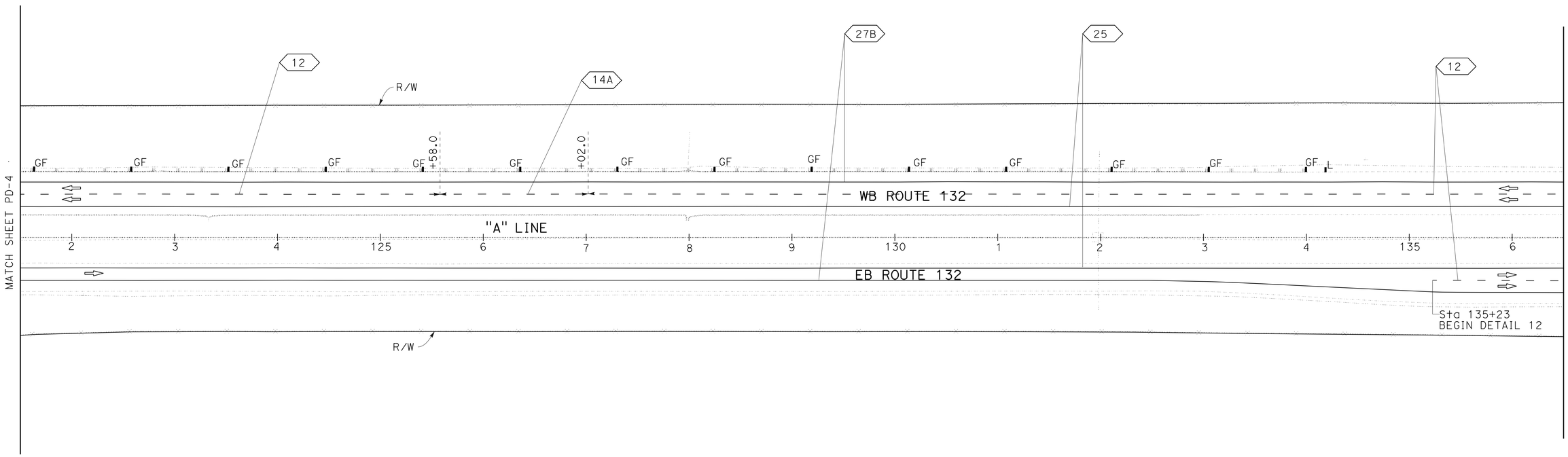

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-5

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	HN
DATE REVISED	12-04-15
	FL
	04-24-15
CALCULATED-DESIGNED BY	CECILE NGUYEN
CHECKED BY	HUE NGUYEN
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI

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

LAST REVISION 10-01-15 | DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	238	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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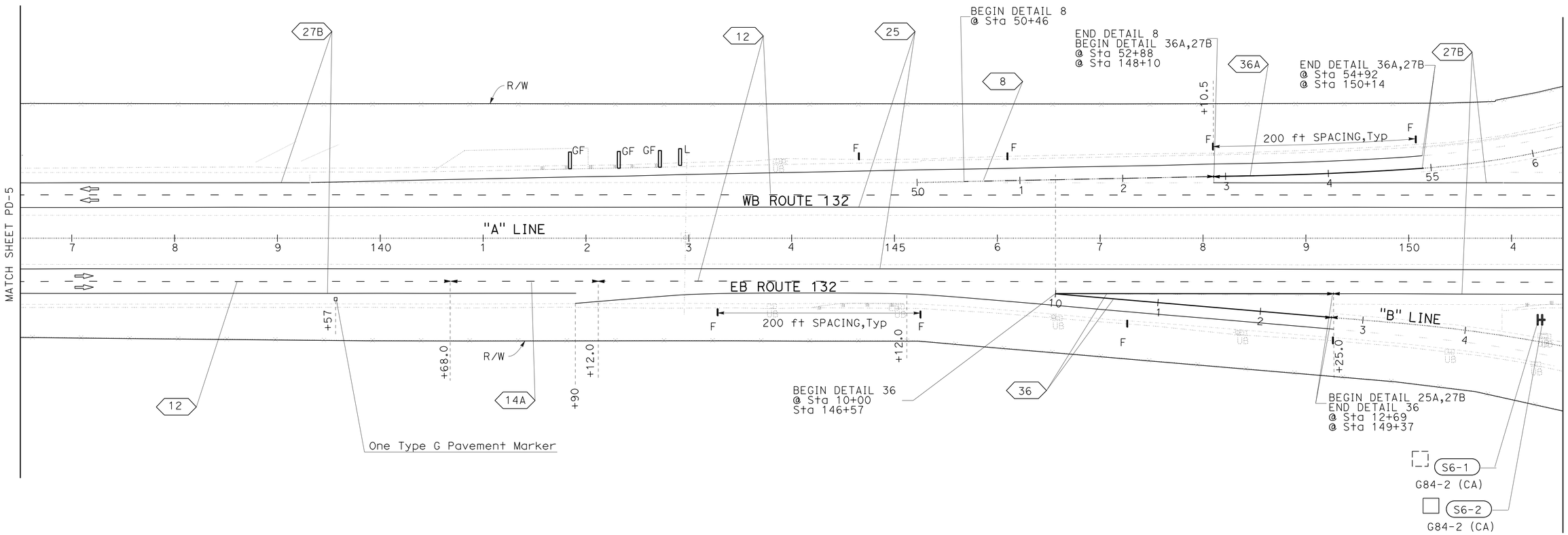

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-6

HN	12-04-15		
FL	06-08-15		
REVISED BY	DATE REVISED		
CECILE NGUYEN			
HUE NGUYEN			
CALCULATED-DESIGNED BY			
CHECKED BY			
FUNCTIONAL SUPERVISOR			
MOHAMMED QATAMI			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	239	424

REGISTERED ~~CIVIL~~ ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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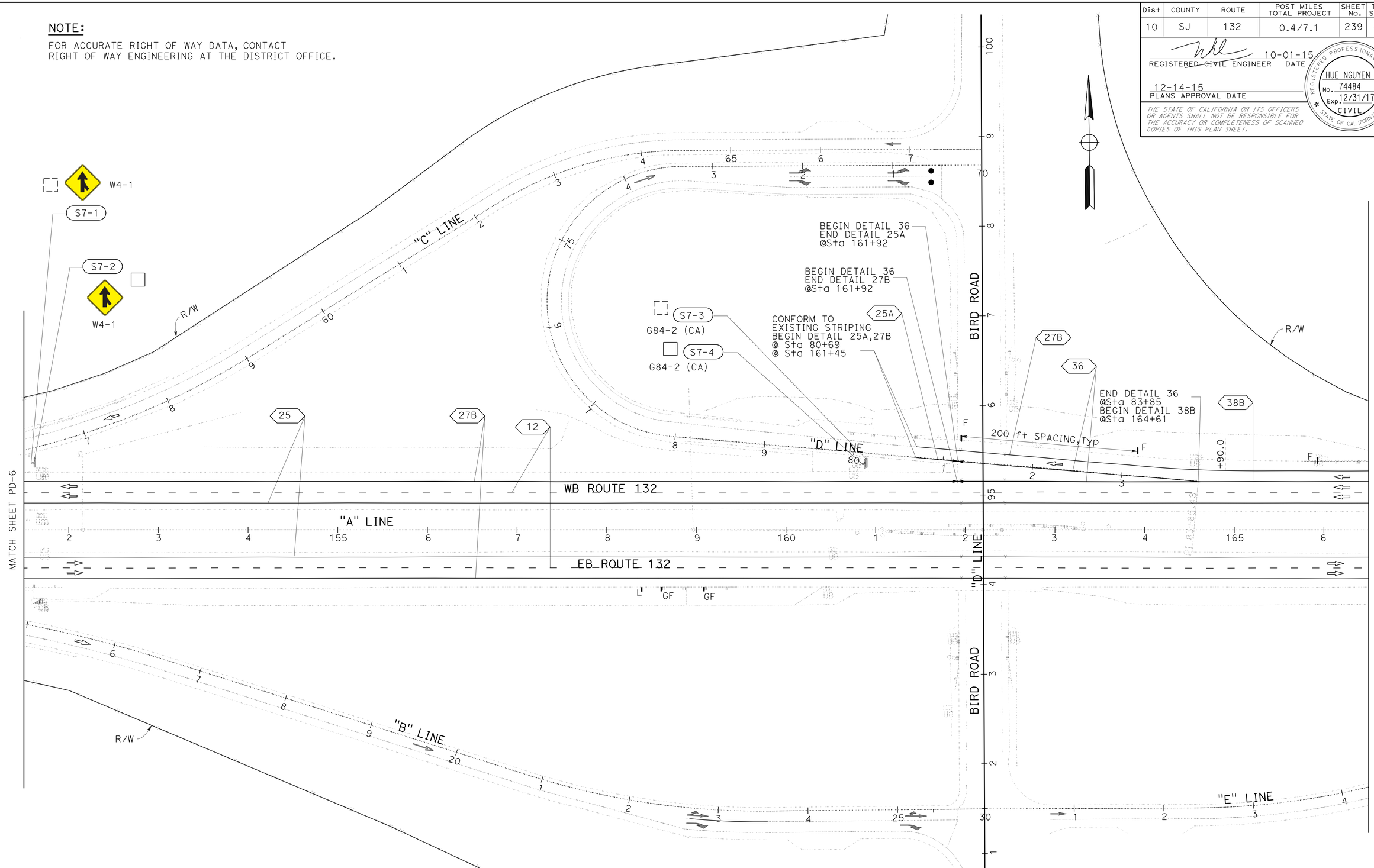

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-7

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	FL	HN	
DATE REVISED	06-08-15	12-04-15	
CALCULATED-DESIGNED BY	CECILE NGUYEN		
CHECKED BY	HUE NGUYEN		
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI		

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

LAST REVISION 10-01-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	240	424

REGISTERED ~~CIVIL~~ ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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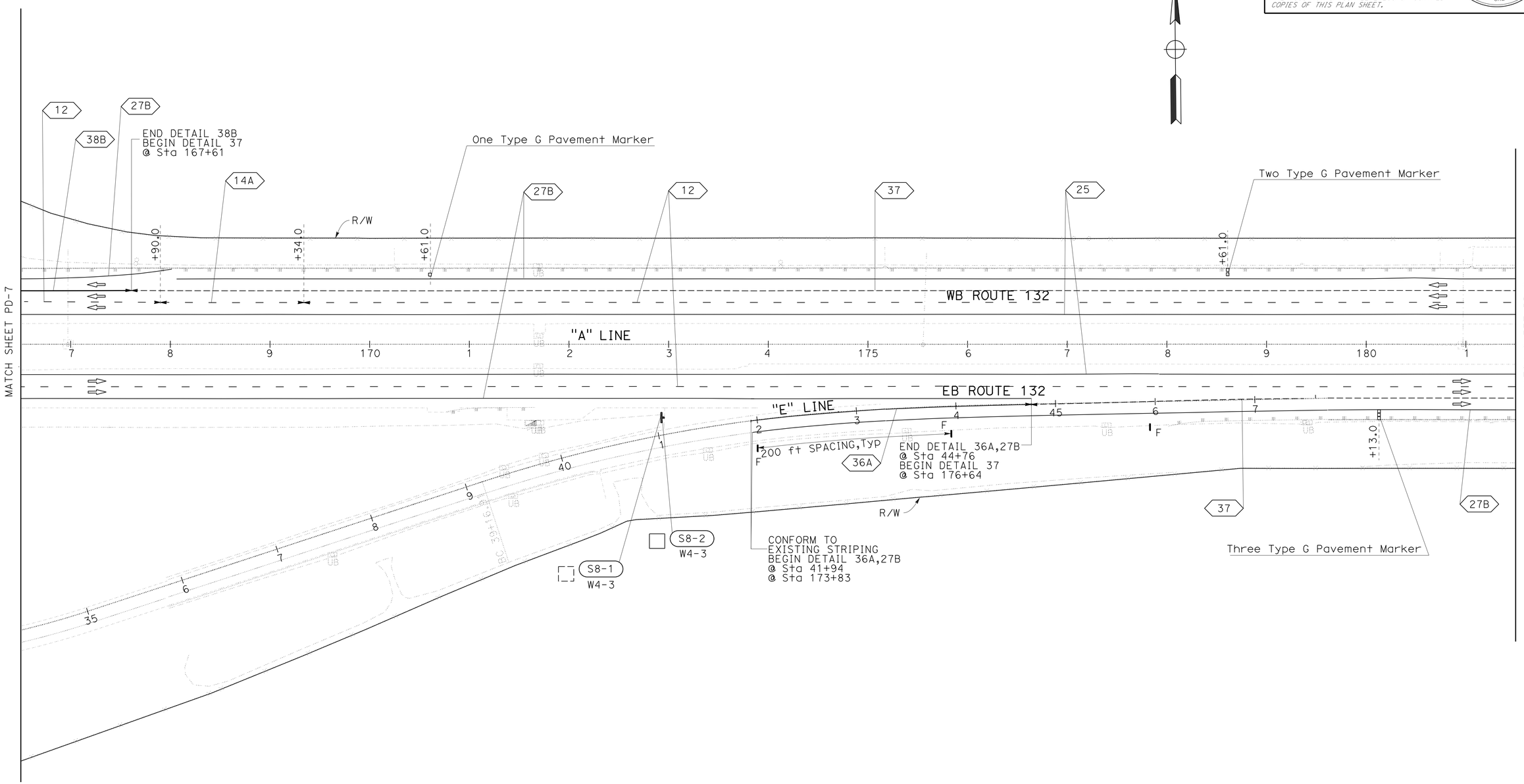

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-8

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	HN
DATE REVISED	12-04-15
	FL
	06-08-15
CECILE NGUYEN	
HUE NGUYEN	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
MOHAMMED QATAMI	

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

LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	241	424

REGISTERED ~~CIVIL~~ ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp 12/31/17
CIVIL
STATE OF CALIFORNIA

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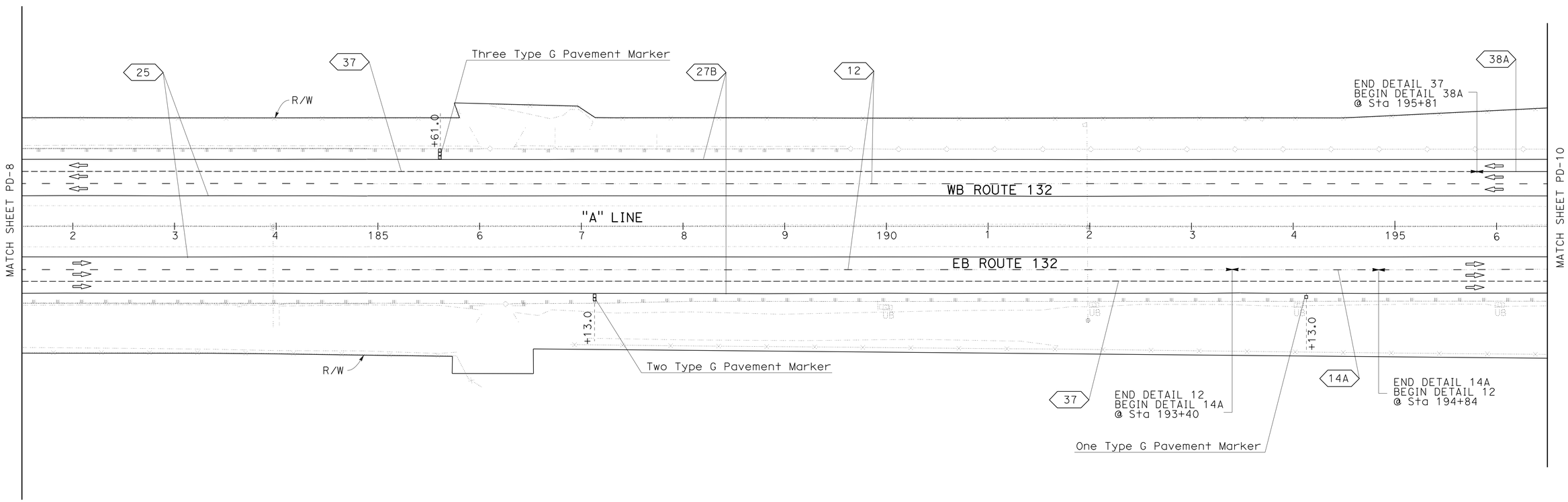

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-9

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

HN	12-04-15	CECILE NGUYEN	FUNCTIONAL SUPERVISOR
FL	06-08-15	HUE NGUYEN	MOHAMMED QATAMI
REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	242	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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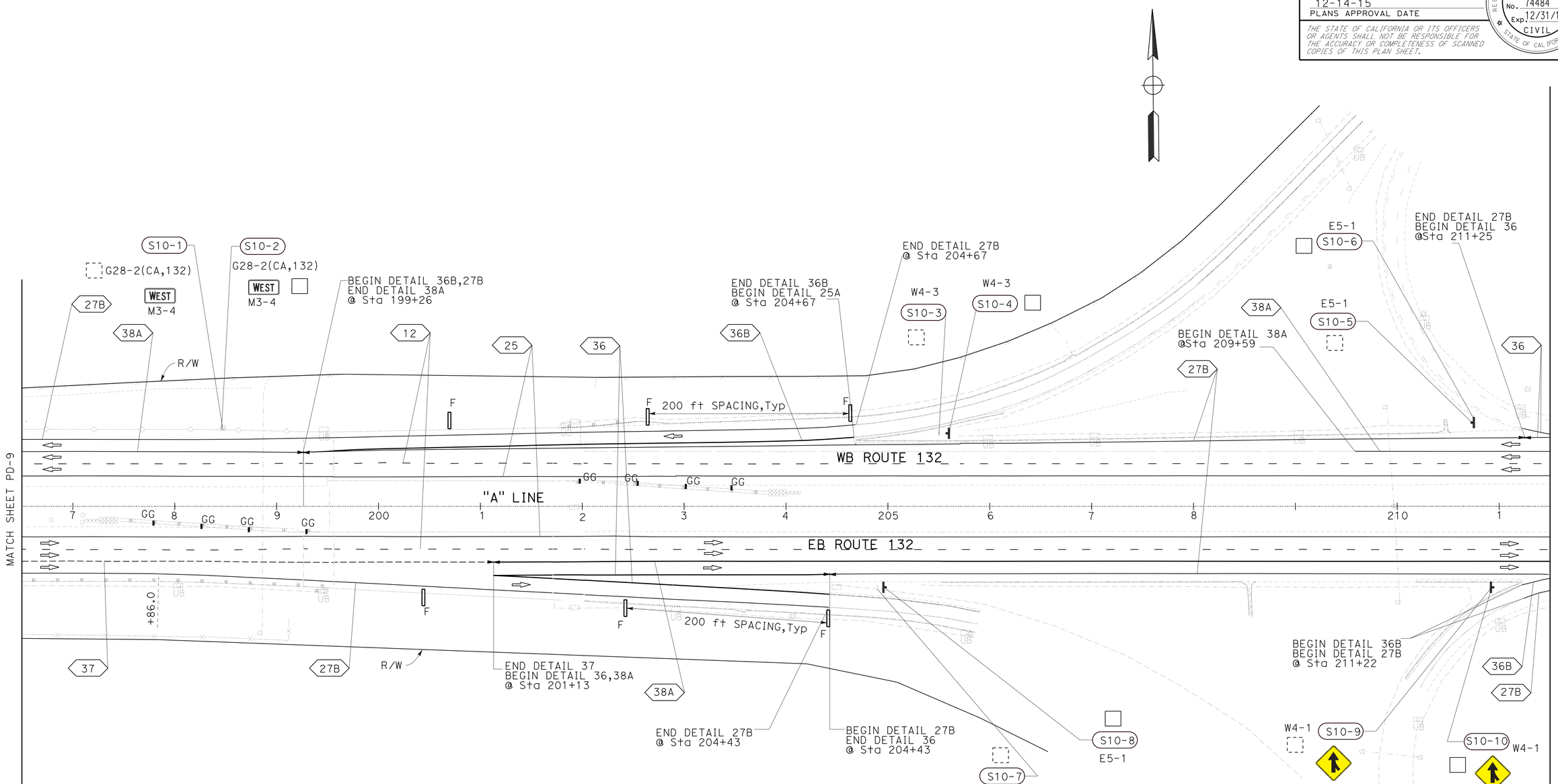

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-10

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	DATE REVISED
HN	12-04-15
FL	06-08-15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	243	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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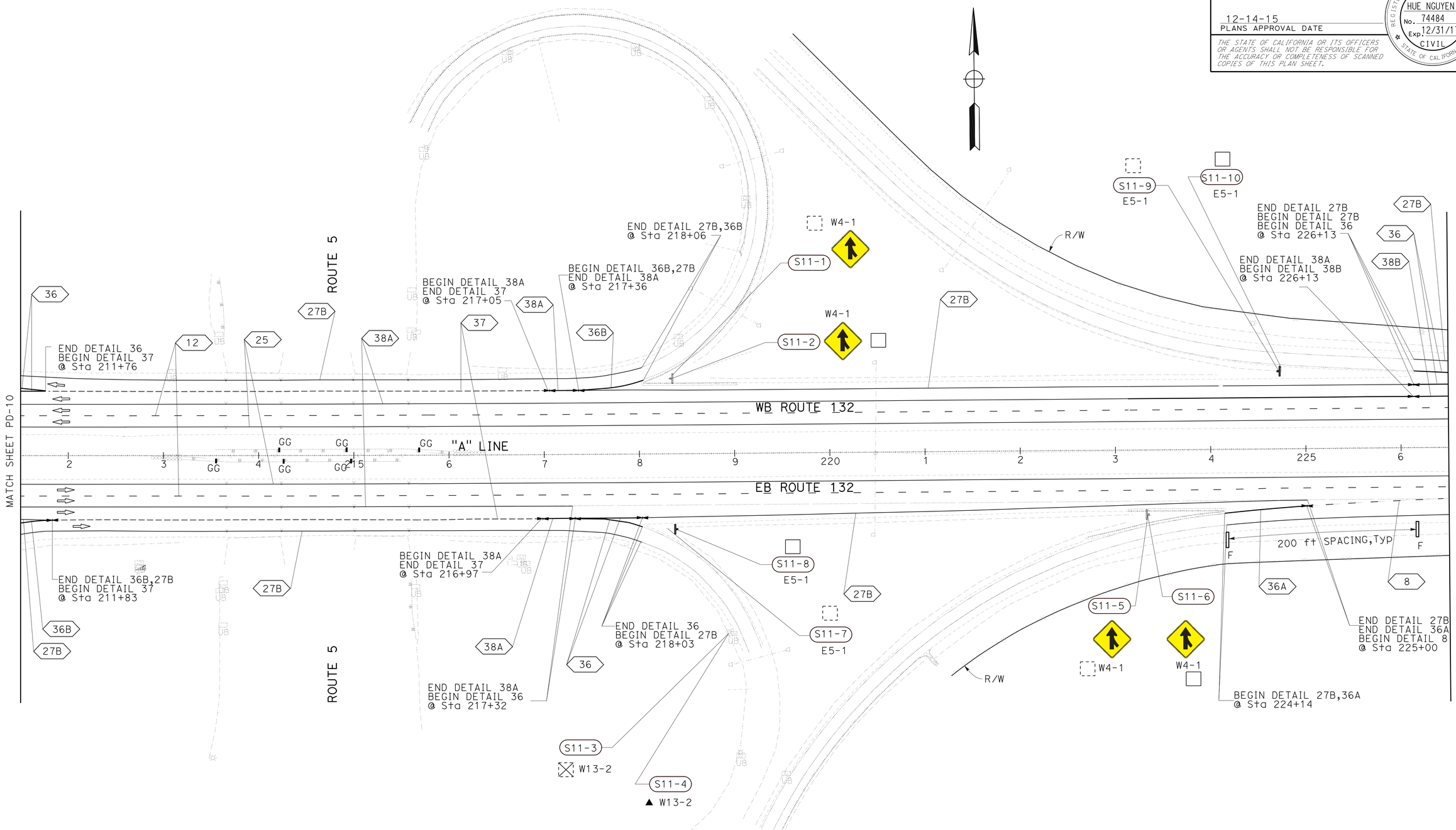

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-11

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	DATE REVISED
HN	12-04-15
FL	06-08-15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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Caltrans 06-TRAFFIC DESIGN

LAST REVISION 10-01-15 | DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	244	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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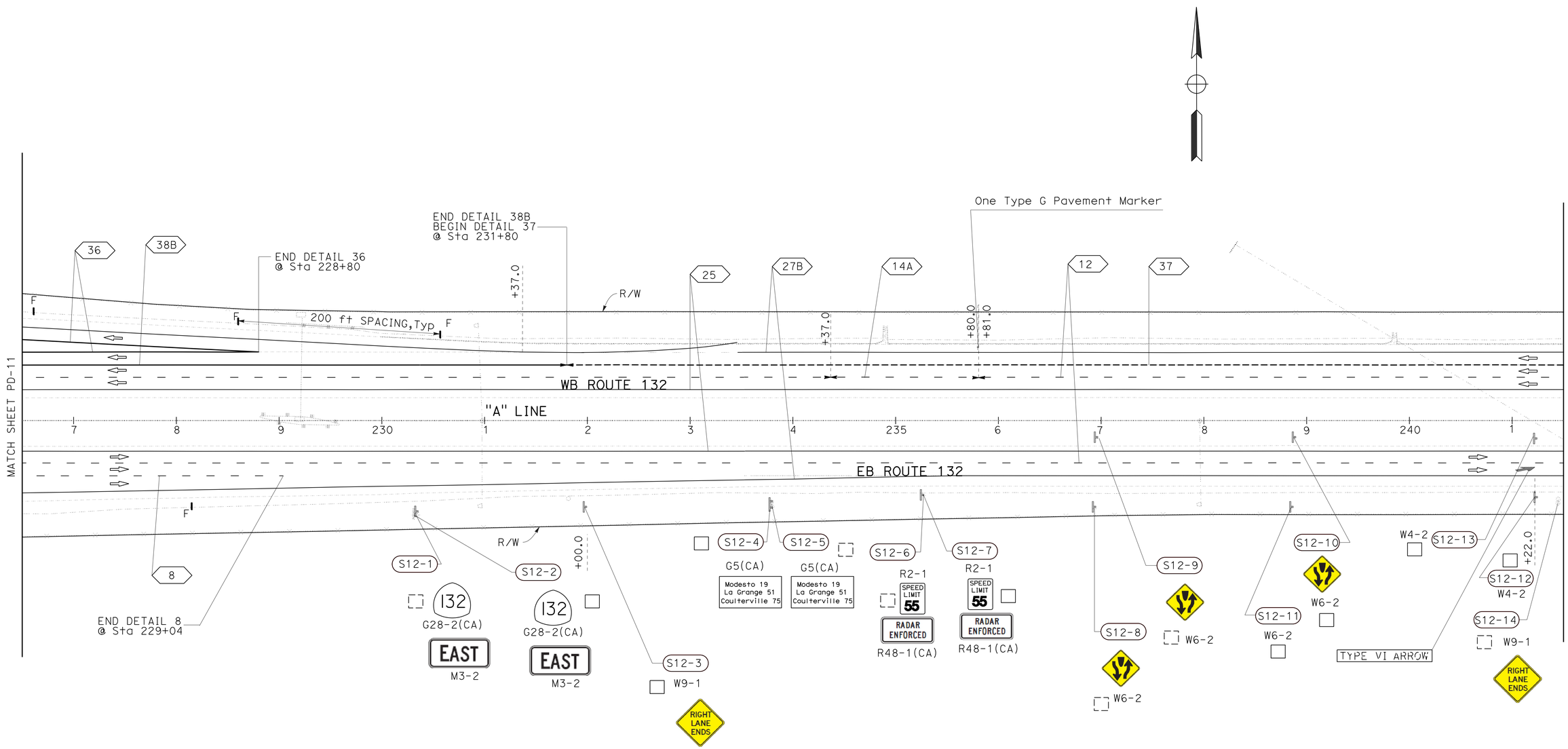

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-12

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	DATE REVISED
HN	12/04/15
FL	06/08/15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	245	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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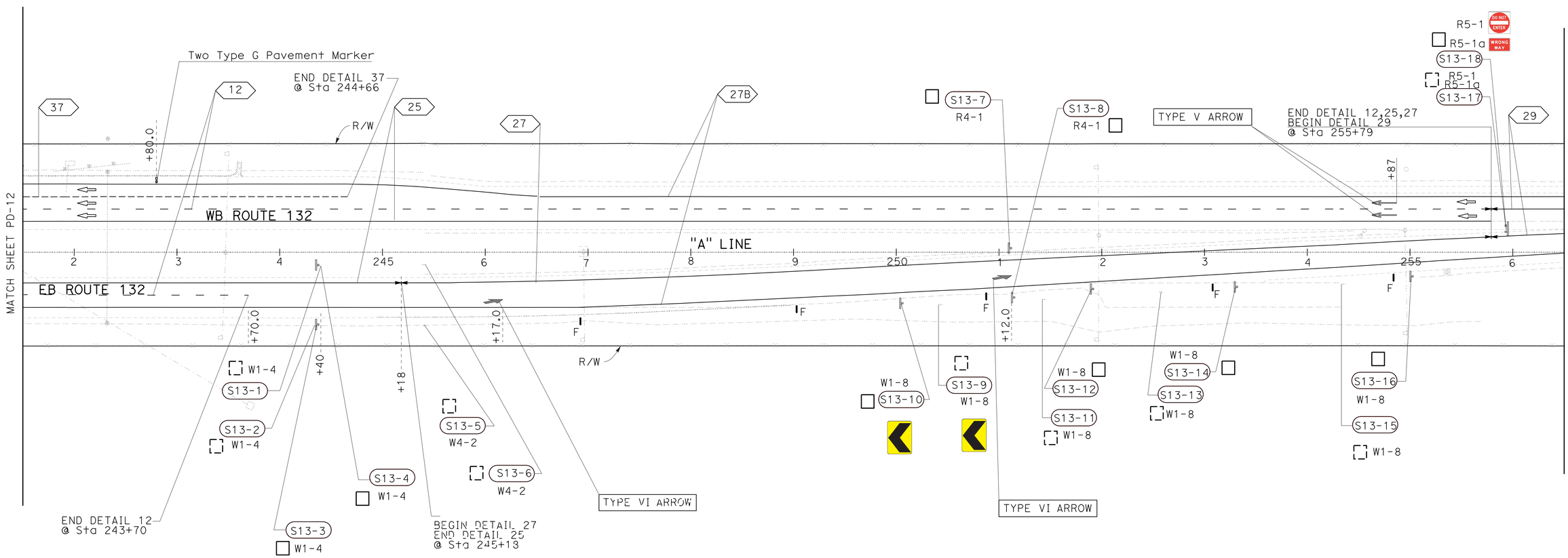

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-13

REVISED BY	DATE REVISED
FL	04-24-15
HN	12-04-15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	246	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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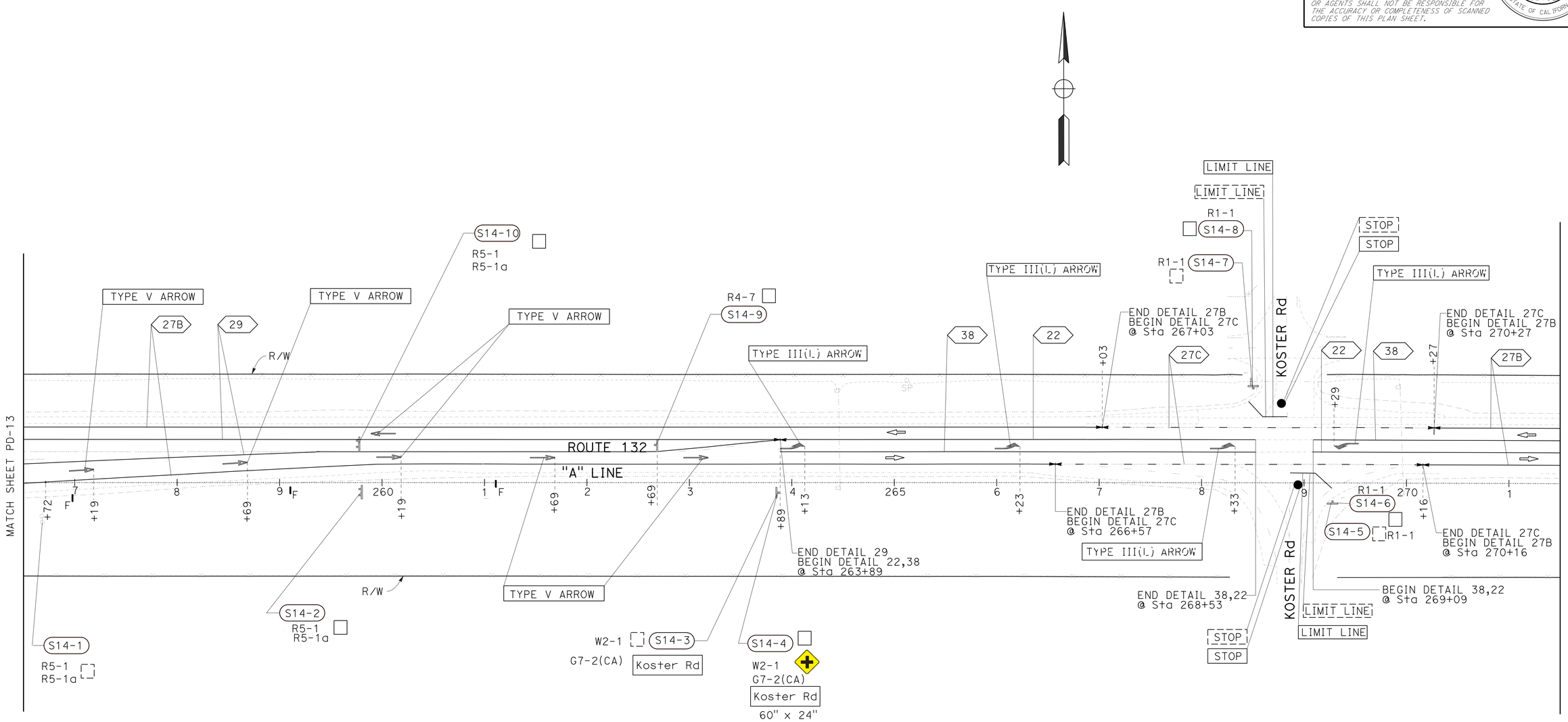

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1"=50'

PD-14

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	DATE REVISED
HN	12-04-15
FL	04-24-15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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Caltrans
06-TRAFFIC DESIGN

LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	247	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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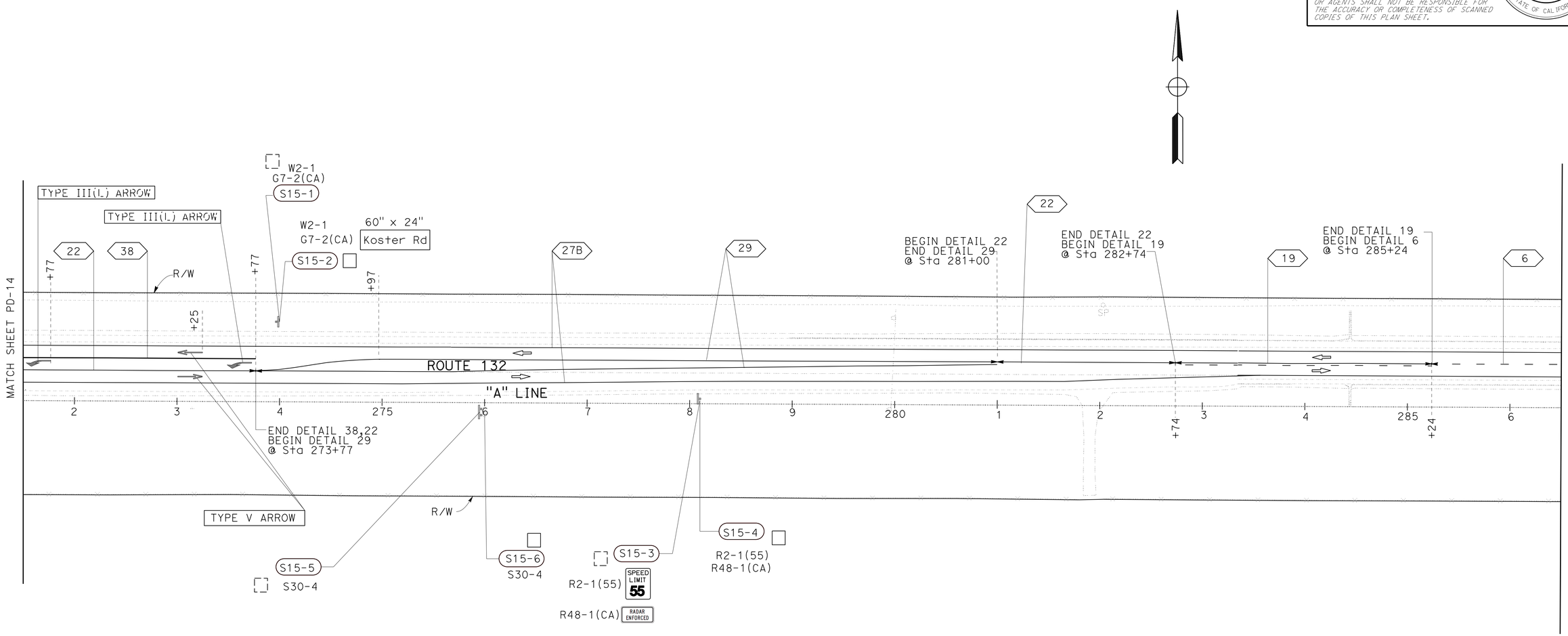

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-15

REVISED BY	DATE REVISED
HN	12-04-15
FL	06-15-15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29
10-12-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	248	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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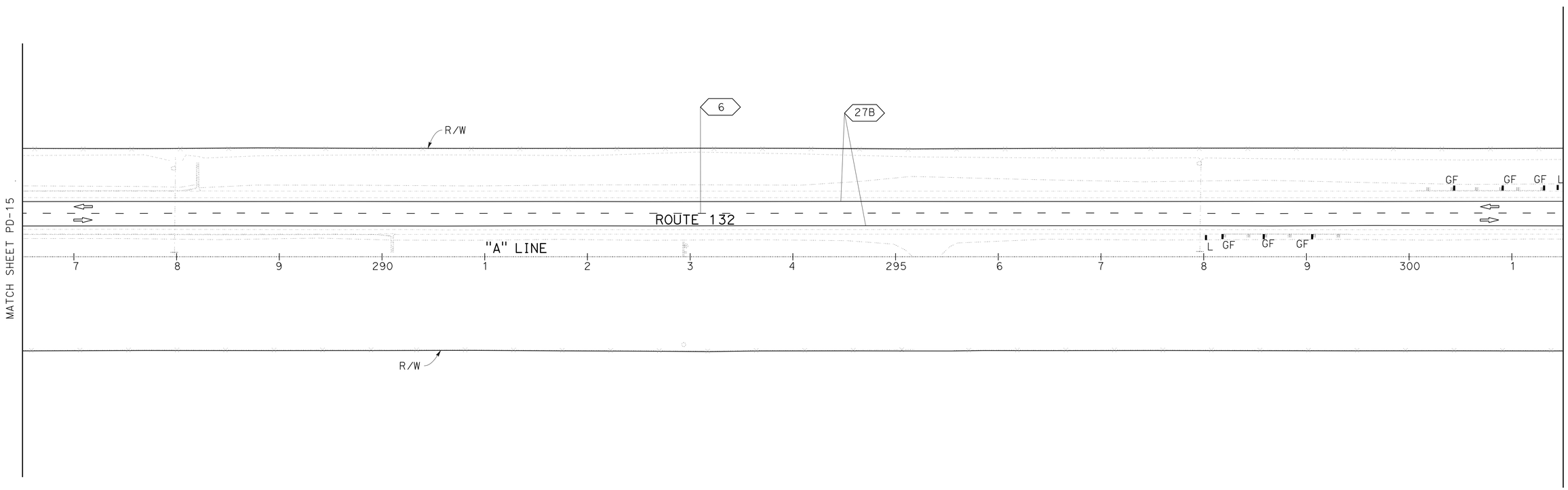

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-16

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

HN	12-04-15	
FL	06-15-15	
REVISED BY	DATE REVISED	
CECILE NGUYEN		
HUE NGUYEN		
CALCULATED-DESIGNED BY		
CHECKED BY		
FUNCTIONAL SUPERVISOR		
MOHAMMED QATAMI		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 10-01-15 | DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	249	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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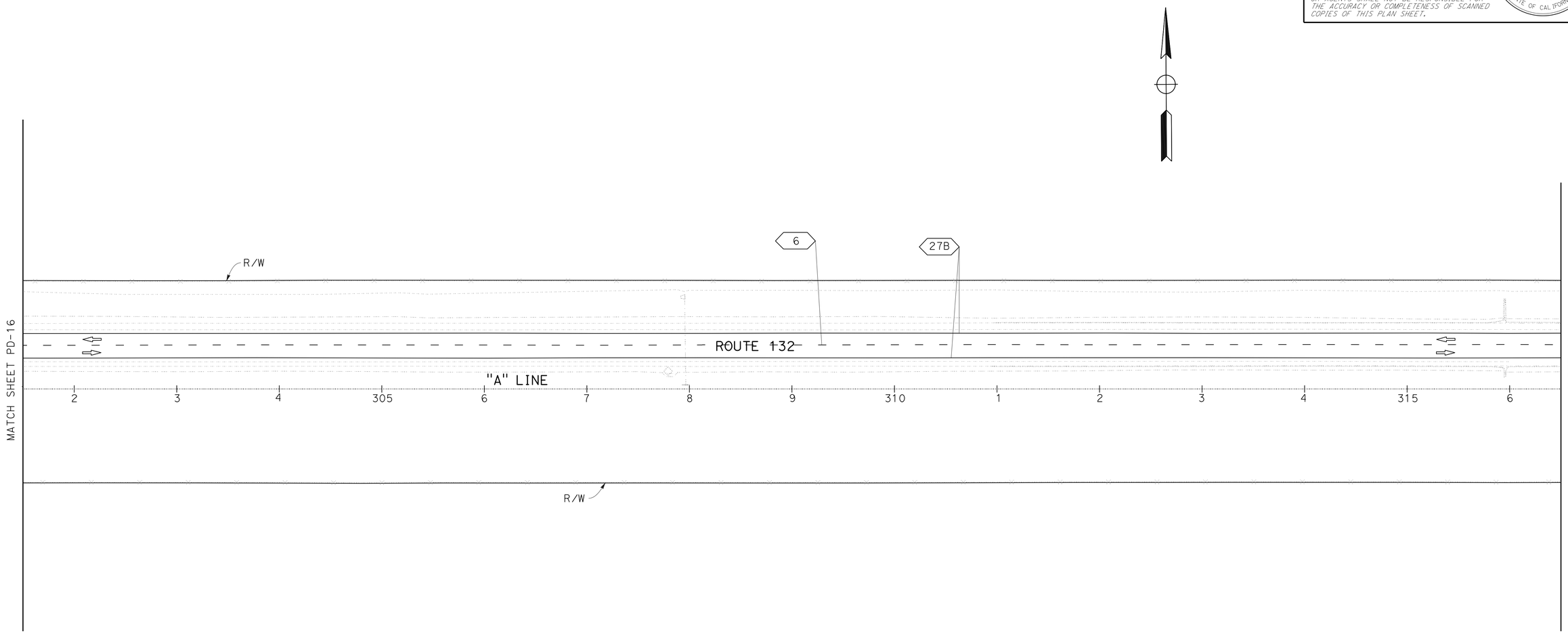

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-17

REVISED BY	DATE REVISED
HN	12-04-15
FL	06-15-15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	250	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

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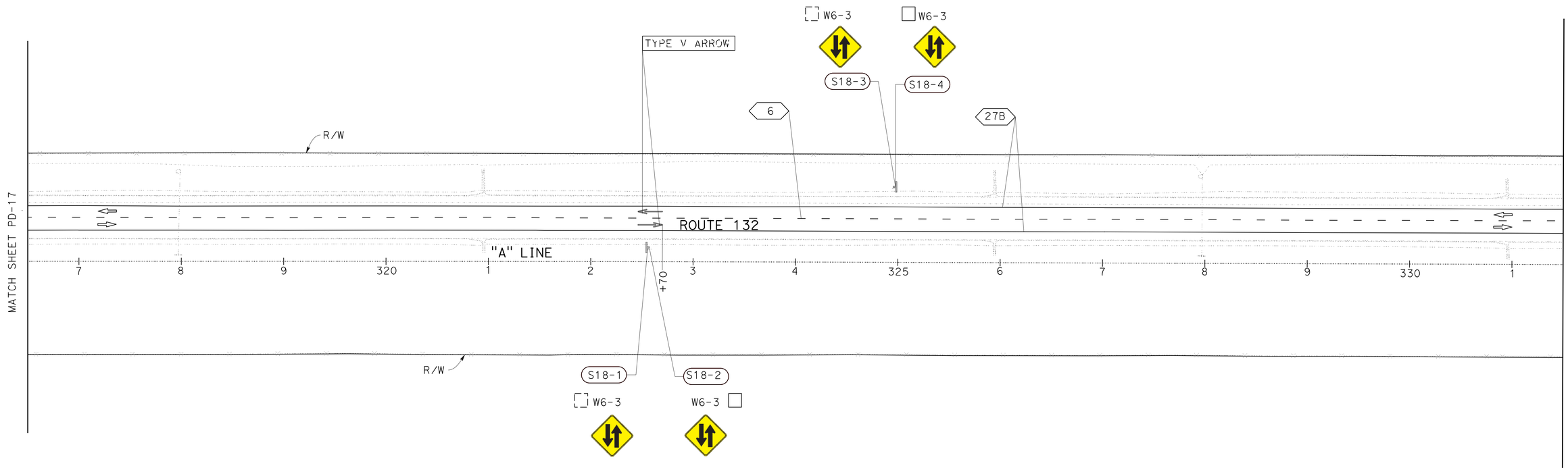

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-18

CALCULATED-DESIGNED BY	CECILE NGUYEN
CHECKED BY	HUE NGUYEN
REVISED BY	FL
DATE REVISED	06-15-15
	HN
	12-04-15
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI

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

LAST REVISION 10-01-15 DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	251	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
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.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
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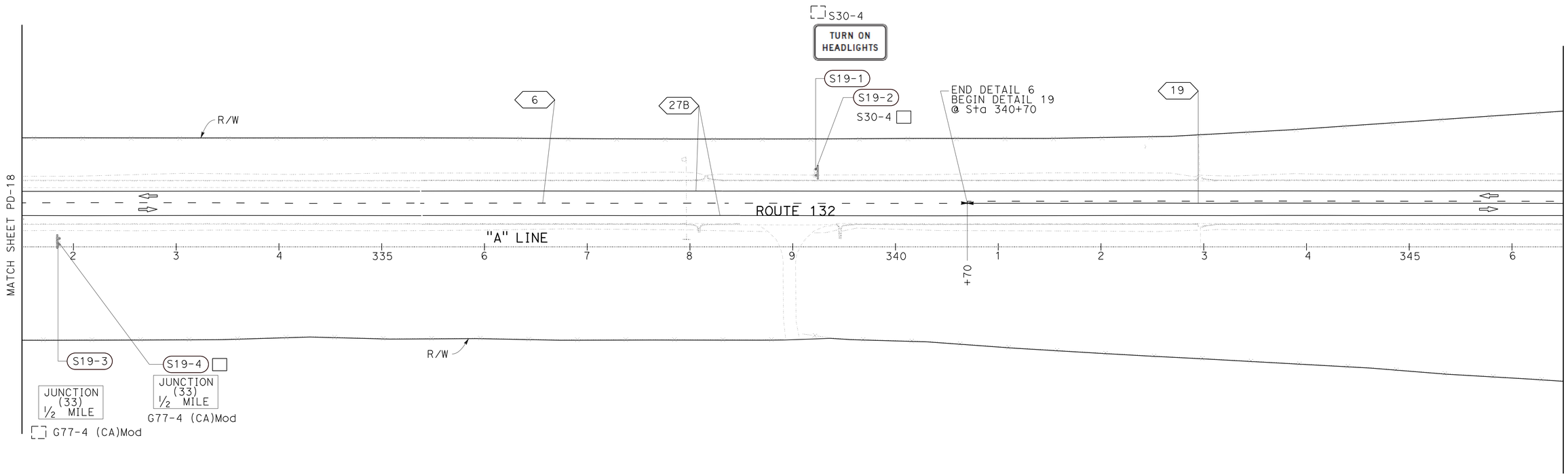

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-19

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

HN	12-04-15	REVISED BY / DATE REVISED
FL	06-15-15	
CECILE NGUYEN		CALCULATED-DESIGNED BY
HUE NGUYEN		CHECKED BY
MOHAMMED QATAMI		FUNCTIONAL SUPERVISOR

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

LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	252	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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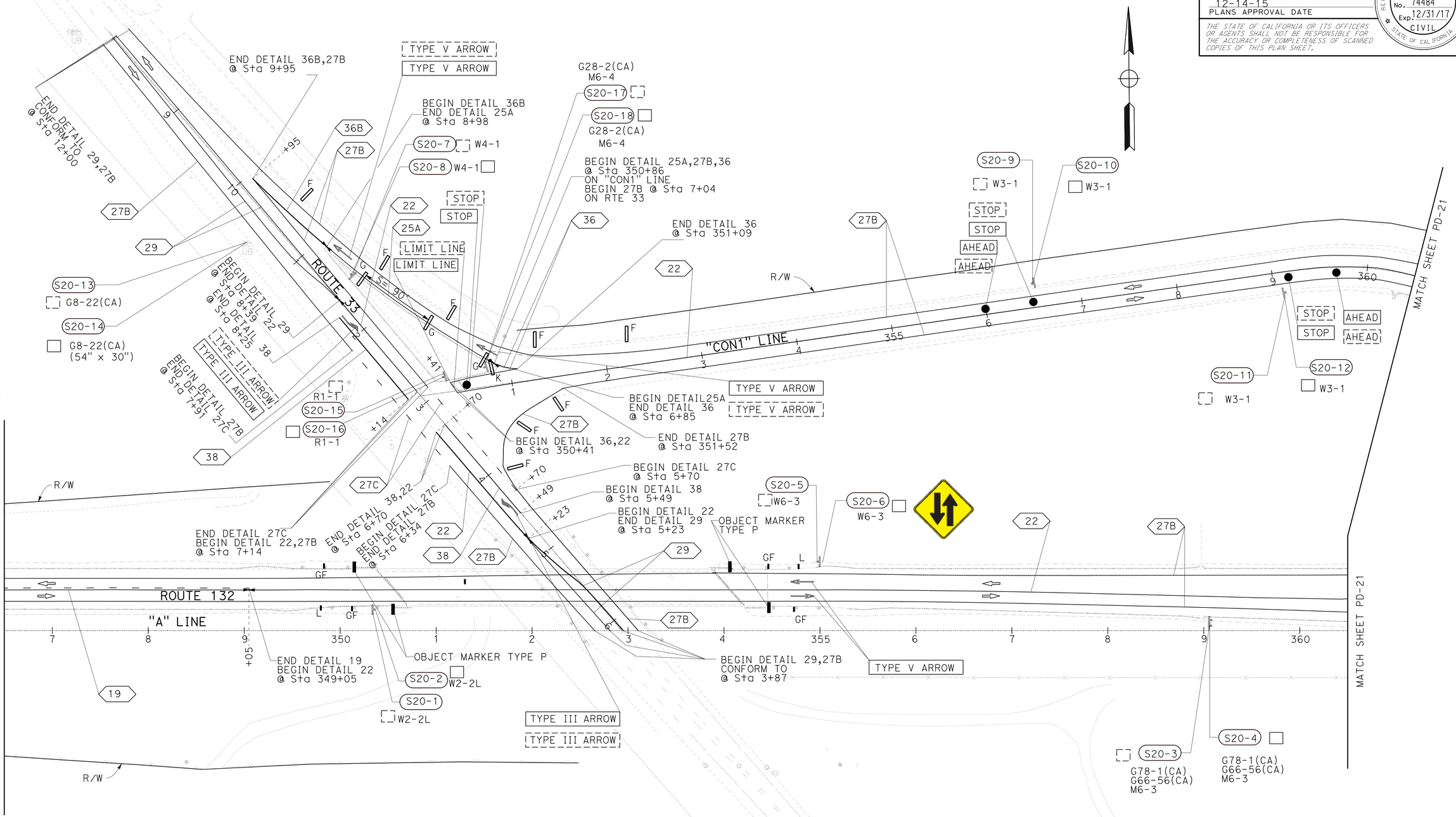

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-20

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	DATE REVISED
HN	12-04-15
FL	06-15-15

CECILE NGUYEN — HUE NGUYEN — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 10-01-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	253	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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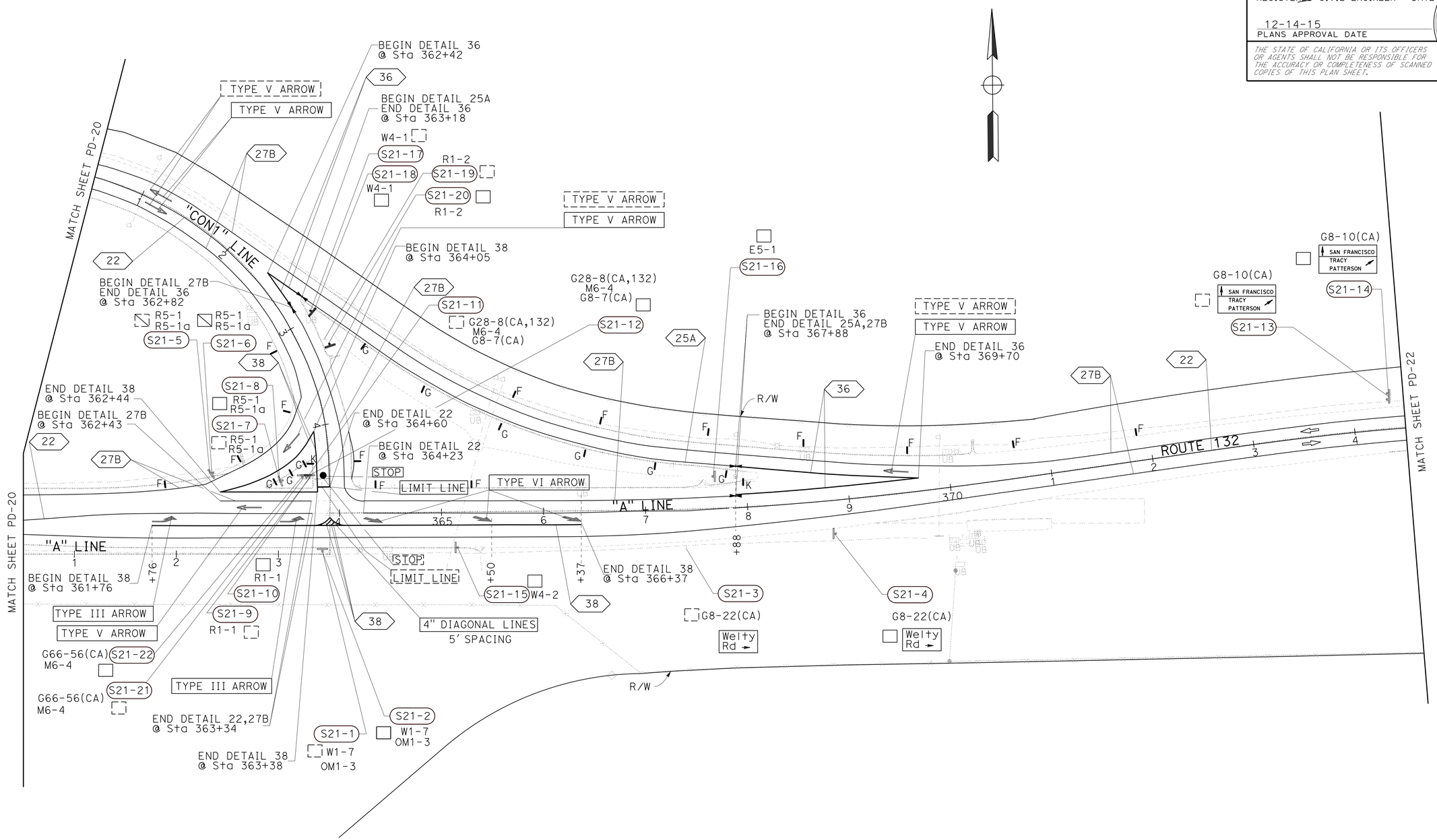
NOTE:

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



APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-21

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

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
REVISED BY: FL
DATE REVISED: 04-24-15 12-04-15
HN

LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	254	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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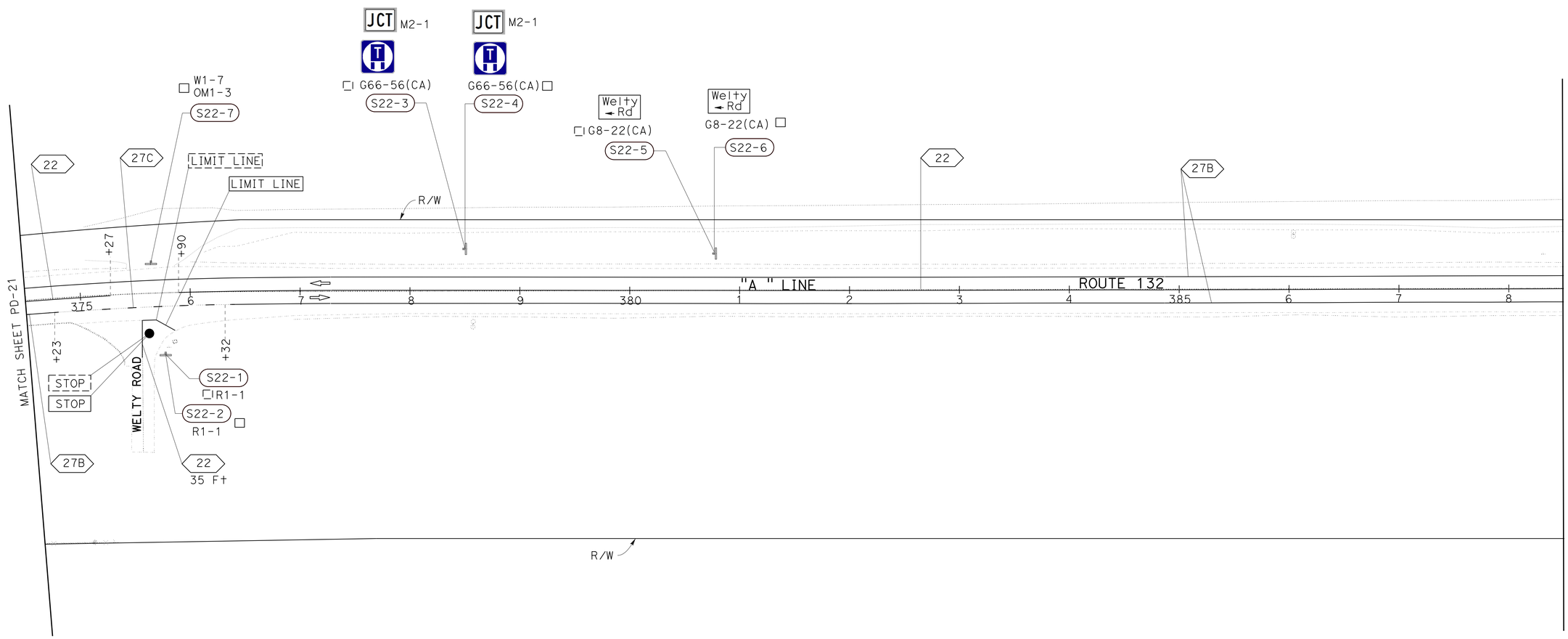

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-22

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

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
REVISED BY: FL
DATE REVISED: 06-15-15
REVISED BY: HN
DATE REVISED: 12-04-15

LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	255	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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NOTE:

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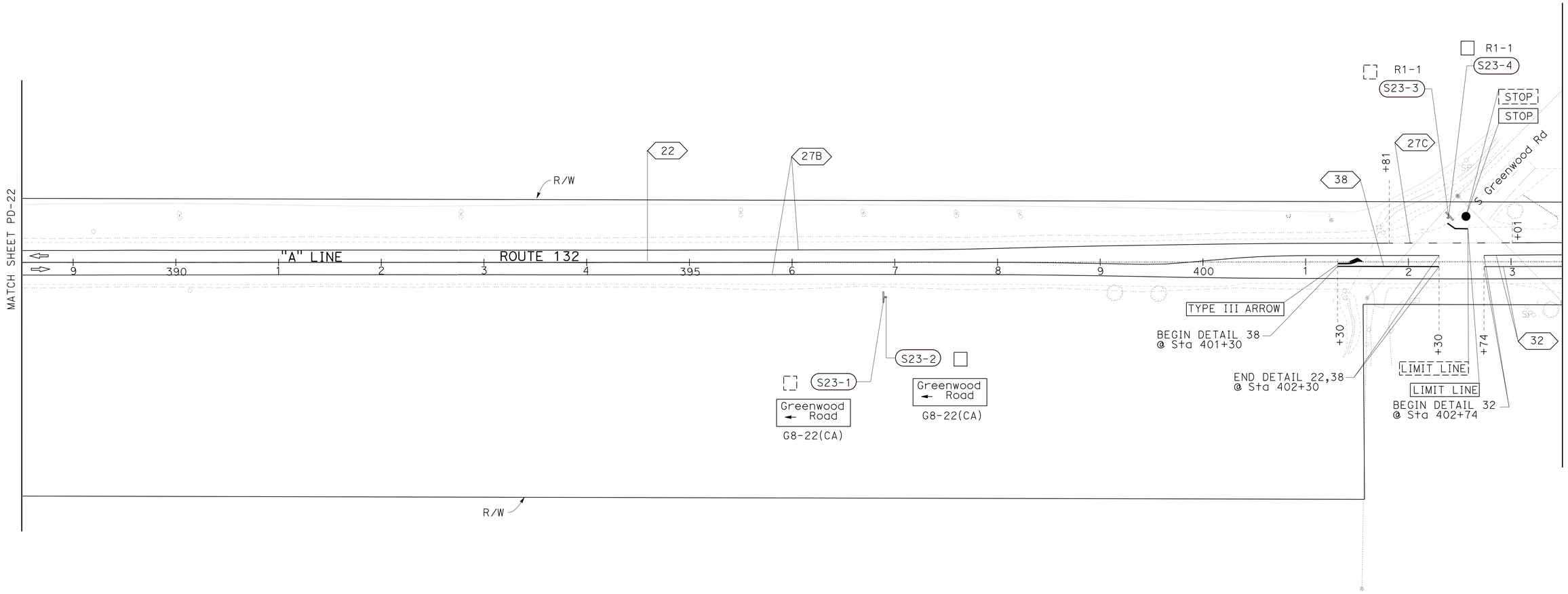

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-23

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	DATE REVISED
HN	12-04-15
FL	06-15-15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	256	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/17
CIVIL
STATE OF CALIFORNIA

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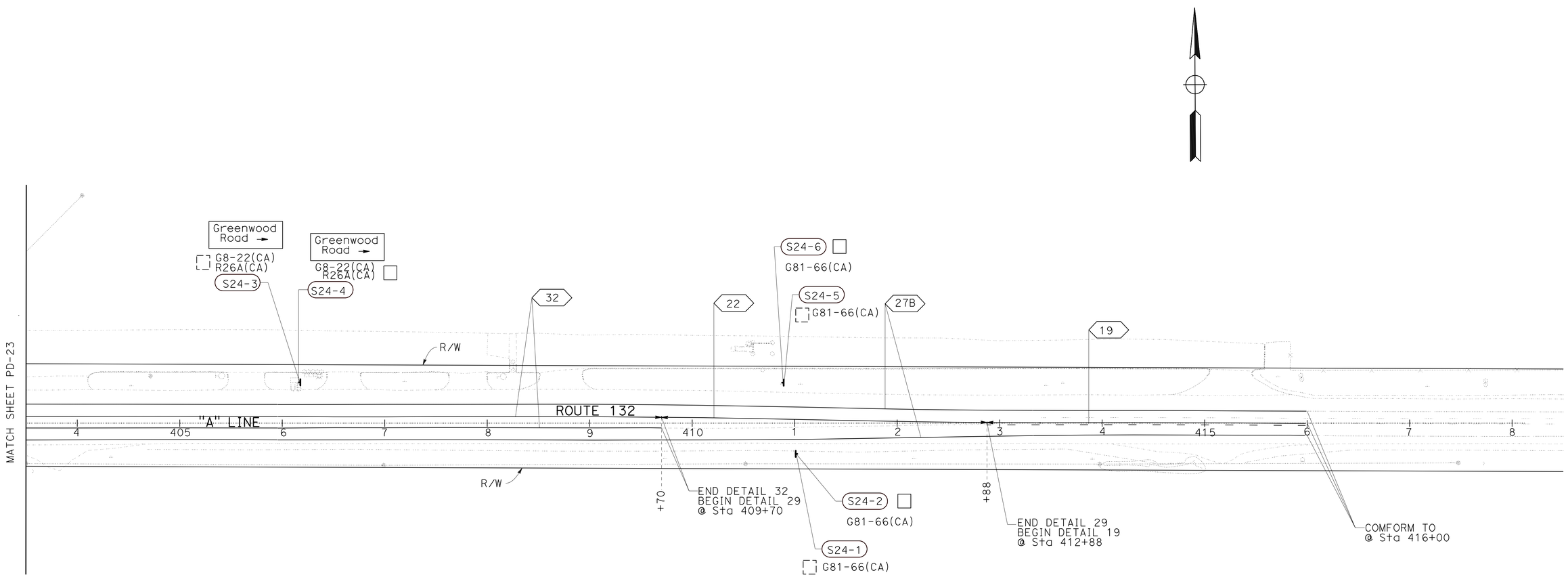

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-24

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

REVISED BY	HN
DATE REVISED	12-04-15
	FL
	06-15-15
CALCULATED-DESIGNED BY	CECILE NGUYEN
CHECKED BY	HUE NGUYEN
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI

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

LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	257	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 CIVIL STATE OF CALIFORNIA

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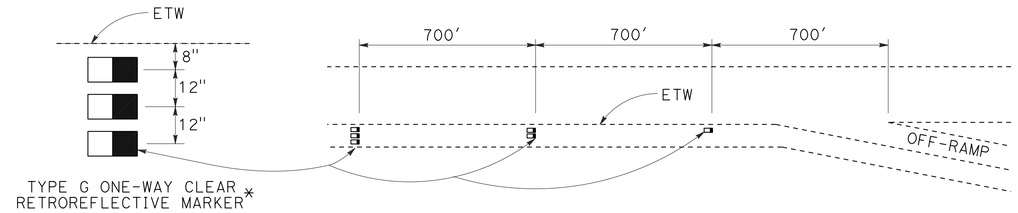
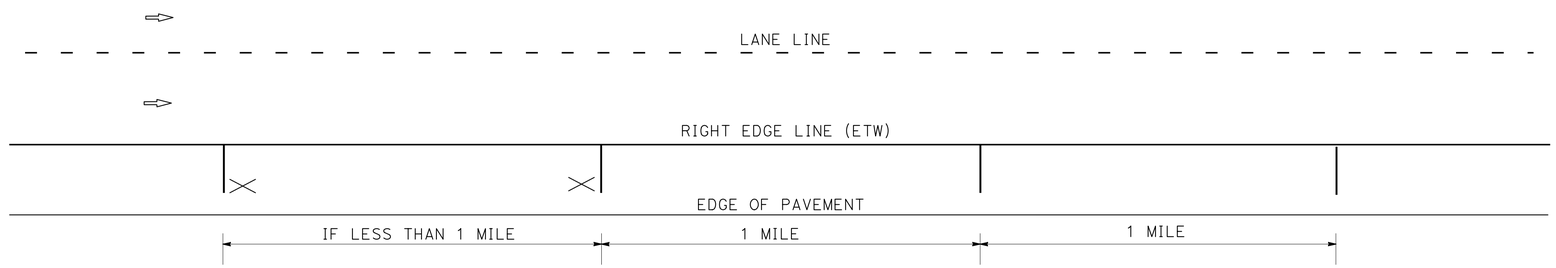
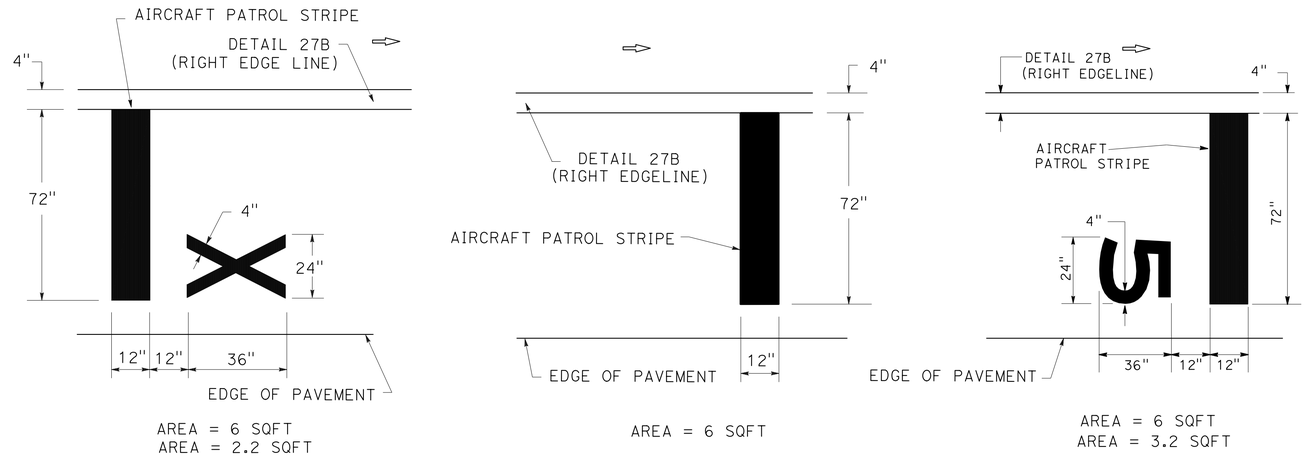


ADVANCE EXIT RAMP MARKER DETAIL

* USE 3, 2, 1, COMBINATION AS SHOWN



AIRCRAFT PATROL PAVEMENT MARKING LAYOUT



AIRCRAFT PATROL PAVEMENT MARKING DETAILS

NOTE: ALL MARKINGS FOR THIS DETAIL SHALL BE WHITE

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

REVISED BY	DATE REVISED
HN	12-04-15
FL	06-08-15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	258	424

REGISTERED ~~CIVIL~~ ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

SHEET No.	STATION LIMIT	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)																				PAVEMENT MARKER			
		DETAIL																				RETRO-REFLECTIVE			
		6	8	12	14A	19	22	25	25A	27	27B	27C	29	32	36	36A	36B	37	38	38A	38B	TYPE			
		4" BROKEN WHITE				4" SOLID BROKEN YELLOW	4" DOUBLE YELLOW	4" SOLID YELLOW		4" DOUBLE YELLOW	4" SOLID WHITE	4" BROKEN WHITE	4" DOUBLE YELLOW	4" SOLID BROKEN YELLOW	8" SOLID WHITE			8" BROKEN WHITE	8" SOLID WHITE			H	G	C	D
		LF																				EA			
PD-1	54+69 - 77+50 (Rte 132)		374	2,281				2,281			1,528					139						49	56		
	63+31 - 77+50(Rte 132)										1,419				176								11		
	64+61 - 77+50 (Rte 132)			1,145	144			1,289														28	26	4	
PD-2	77+50 - 92+50 (Rte 132)			3,000				3,000			3,000											64	69		
PD-3	92+50 - 107+50 (Rte 132)			2,206	144			3,000			3,000											64	48	4	
PD-4	107+50 - 121+50 (Rte 132)			1,400				2,800			2,800											60	30		
PD-5	121+50 - 136+50 (Rte 132)			1,356	144			3,000			3,000											64	29	4	
PD-6	136+50 - 151+50 (Rte 132)			2,856	144			3,000			2,742											64	62	4	
	50+00 - 54+92 (NW ON-RAMP BIRD Rd)		242								204					204							9		
	10+00 - 12+79 (SW OFF-RAMP BIRD Rd)										268				558								24		
PD-7	151+50 - 166+50 (Rte 132)			3,000				3,000			2,731				538						189	64	44		
	80+69 - 83+85 (NW OFF-RAMP)								47		316											2			
PD-8	166+50 - 181+50 (Rte 132)			2,856	144			3,000			2,514							1,389			111	64	98	12	
	41+94 - 181+50 (SE ON-RAMP)										767					282		486					44	8	
PD-9	181+50 - 196+50 (Rte 132)			2,856	144			3,000			3,000							2,931		69		64	190	20	
PD-10	196+50 - 211+50 (Rte 132)			3,000				3,000			3,544				710	569	463	1,504		1,504		64	141	8	
PD-11	211+50 - 226+50 (Rte 132)		150	3,000				3,000			764				268	86	103	863		2,111	37	64	152	16	
SUBTOTAL			766	28,956	864			33,370	47		31,597				2,250	1,280	566	7,173		3,684	337	715	1,033	80	
TOTAL		110,890																				1,828			

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY	DATE REVISED
HN	10-12-15
FL	04-25-15

CECILE NGUYEN — HUE NGUYEN — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 06-TRAFFIC DESIGN

LAST REVISION 10-12-15 — DATE PLOTTED => 11-JAN-2016 — TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	259	424

REGISTERED ~~CIVIL~~ ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

SHEET No.	STATION LIMIT	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)																				PAVEMENT MARKER			
		DETAIL																				RETRO-REFLECTIVE			
		6	8	12	14A	19	22	25	25A	27	27B	27C	29	32	36	36A	36B	37	38	38A	38B	TYPE			
		4" BROKEN WHITE				4" SOLID BROKEN YELLOW	4" DOUBLE YELLOW	4" SOLID YELLOW		4" DOUBLE YELLOW	4" SOLID WHITE	4" BROKEN WHITE	4" DOUBLE YELLOW	4" SOLID BROKEN YELLOW	8" SOLID WHITE			8" BROKEN WHITE	8" SOLID WHITE			H	G	C	D
		LF																				EA			
PD-12	226+50 - 241+50 (Rte 132)		254	2,856	144			3,000			3,000				460			970			530	64	189	12	14
PD-13	241+50 - 256+50 (Rte 132)			1,649				1,797		1,061	3,000		142					316				63	54	8	
PD-14	256+50 - 271+50 (Rte 132)						705				2,317	683	1,478						705				32		122
PD-15	271+50 - 286+50 (Rte 132)	126				250	227				3,000		1,446						227			6	10		81
PD-16	286+50 - 301+50 (Rte 132)	1,500									3,000														32
PD-17	301+50 - 316+50 (Rte 132)	1,500									3,000														32
PD-18	316+50 - 331+50 (Rte 132)	1,500									3,000														32
PD-19	331+50 - 346+50 (Rte 132)	920				580					3,000											26			33
PD-20	346+50 - 360+50 (Rte 132)					255	1145				2,800											12			103
	3+87 - 12+00 (Rte 33)						258		215		2,515	302	994		96		97		272			10	17		74
	350+41 - 360+50 ("CON1"-LINE)						1,009				1,990								142				7		86
PD-21	360+50 - 374+50 (Rte 132)						1,311				2,079				364				421				35		111
	350+24 - 360+50 ("CON1"-LINE)						410		470		1,574				80				249			21	15		18
PD-22	374+50 - 388+50 (Rte 132)						1,337				2,741	159													115
	WELTY Rd						35																		4
PD-23	388+50 - 403+50 (Rte 132)						1,380				2,880	120		152					100				5		127
PD-24	403+50 - 388+50 (Rte 132)					312	318				2,500			1,240								14			104
SUBTOTAL		5,546	254	4,505	144	1,397	8,105	4,797	685	1,061	42,396	1,264	4,060	1,392	1,000		97	1,286	2,116		530	216	364	20	1,088
TOTAL THIS SHEET		80,635																				1,688			
TOTAL PDQ-1		110,890																				1,828			
TOTAL		191,525																				3,516			

PAVEMENT DELINEATION QUANTITIES
PDQ-2

REVISED BY	DATE REVISED
HN	10-12-15
FL	04-22-15

CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 10-12-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	260	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

SHEET No.	STATION LIMIT	REMOVE THERMOPLASTIC PAVEMENT MARKING						THERMOPLASTIC PAVEMENT MARKING								DELINEATOR (CLASS 1)		GUARD RAILING DELINEATOR		OBJECT MARKER		
																TYPE		TYPE		TYPE		
		AIRCRAFT PATROL	LIMIT LINE	STOP	AHEAD	TYPE III ARROW	TYPE V ARROW	AIRCRAFT PATROL	LIMIT LINE	STOP	AHEAD	4" DIAGONAL LINE	TYPE III ARROW	TYPE V ARROW	TYPE VI ARROW	F	G	F	G	K	L	P
		SQFT						SQFT								EA		EA		EA		
PD-1	68+00 - 77+50 (Rte 132)															6						
PD-2	77+50 - 92+50 (Rte 132)	32.8						32.8										12	10		5	
PD-3	92+50 - 107+50 (Rte 132)														84			5			2	
PD-4	107+50 - 121+50 (Rte 132)														42	5		8				
PD-5	121+50 - 136+50 (Rte 132)																	15			1	
PD-6	136+50 - 151+50 (Rte 132)	12.0						12.0								4		3			1	
	50+00 - 56+30 (NW ON-RAMP BIRD Rd)															2						
	10+00 - 14+96 (SW OFF-RAMP BIRD Rd)															2						
PD-7	151+50 - 166+50 (Rte 132)																	1				
	56+30 - 67+24 (NW ON-RAMP BIRD Rd)																					
	14+96 - 25+40 (SW OFF-RAMP BIRD Rd)																					
	81+16 - 166+50 (NW OFF-RAMP)															2						
	30+71 - 34+30 (SE ON-RAMP BIRD Rd)																					
PD-8	166+50 - 181+50 (Rte 132)																					
	40+00 - 181+50 (SE ON-RAMP)															3						
PD-9	181+50 - 196+50 (Rte 132)																					
PD-10	196+50 - 211+50 (Rte 132)	12.0						12.0								6			8			
PD-11	211+50 - 226+50 (Rte 132)															2			6			
SUBTOTAL		56.8						56.8							126	32		44	24		9	
TOTAL		56.8						182.8								32		68			9	

PAVEMENT DELINEATION QUANTITIES

PDQ-3

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

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
REVISED BY: FL
DATE REVISED: 06-15-15
HN 12-04-15

LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	261	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

SHEET No.	STATION LIMIT	REMOVE THERMOPLASTIC PAVEMENT MARKING						THERMOPLASTIC PAVEMENT MARKING								DELINEATOR (CLASS 1)		GUARD RAILING DELINEATOR		OBJECT MARKER		
																TYPE		TYPE		TYPE		
		AIRCRAFT PATROL	LIMIT LINE	STOP	AHEAD	TYPE III ARROW	TYPE V ARROW	AIRCRAFT PATROL	LIMIT LINE	STOP	AHEAD	4" DIAGONAL LINE	TYPE III ARROW	TYPE V ARROW	TYPE VI ARROW	F	G	F	G	K	L	P
		SQFT						SQFT								EA		EA		EA		
PD-12	226+50 - 241+50 (Rte 132)														42	4						
PD-13	241+50 - 256+50 (Rte 132)	12.0						12.0						66	84	5						
PD-14	256+50 - 271+50 (Rte 132)												168	198		3						
	KOSTER		90	44					90	44												
PD-15	271+50 - 286+50 (Rte 132)												84	66								
PD-16	286+50 - 301+50 (Rte 132)																	6			2	
PD-17	301+50 - 316+50 (Rte 132)	18.4						18.4														
PD-18	316+50 - 331+50 (Rte 132)																					
PD-19	331+50 - 346+50 (Rte 132)																					
PD-20	346+50 - 360+50 (Rte 132)													66				4			2	4
	3+87 - 12+00 (Rte 33)					84							84					3				
	350+41 - 360+50 ("CON1"-LINE)		12	66	62		66		12	66	62			66		5	3			1		
PD-21	360+50 - 374+50 (Rte 132)	16.4						16.4				5	84	33	126							
	360+50 - 369+68 ("CON1"-LINE)		17	22			132		17	22				132		14	9			2		
PD-22	374+50 - 388+50 (Rte 132)																					
	WELTY Rd		33	22					33	22												
PD-23	388+50 - 403+50 (Rte 132)												42									
	GREENWOOD Rd		22	22					22	22												
PD-24	403+50 - 416+00 (Rte 132)	16.4						16.4														
SUBTOTAL		63.2	174	176	62	84	198	63.2	174	176	62	5	462	627	252	19	12	13		3	4	4
TOTAL THIS SHEET		757.2						1821.2								31		13		3	4	4
TOTAL PDQ-3		56.8						182.8								32		68			9	
TOTAL FROM THQ-10		294.0																				
GRAND TOTAL		1108.0						1995.0								63		81		3	13	4

PAVEMENT DELINEATION QUANTITIES

PDQ-4

REVISED BY	DATE REVISED
HN	12-04-15
FL	05-18-15

CECILE NGUYEN — HUE NGUYEN — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 06-TRAFFIC DESIGN

LAST REVISION 10-01-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	262	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 CIVIL STATE OF CALIFORNIA

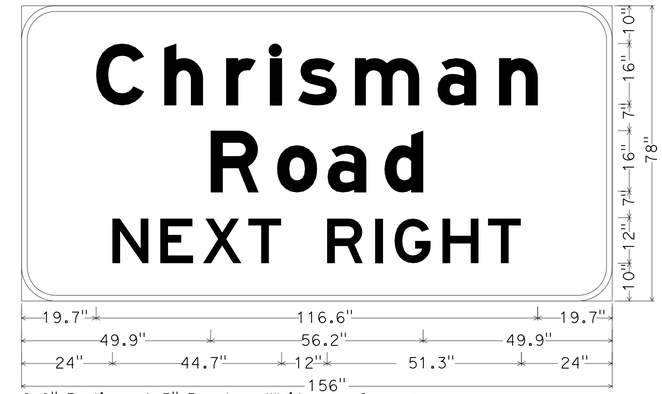
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

9.0" Radius, 1.5" Border, White on Green;
[Chrisman] E Mod; [Rd] E Mod; Arrow 16CAP-2LH - 25.0" 45°;

G85-1(CA)
S1-2
FWBT

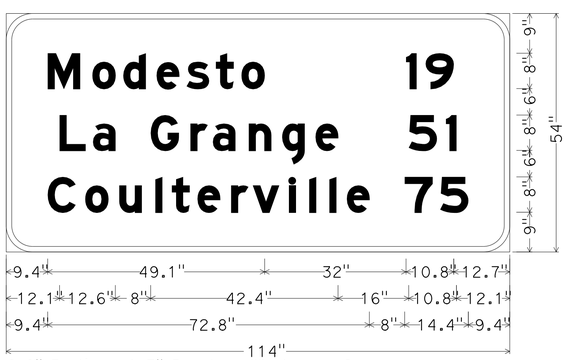
3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-2LH - 9.6" 90{; [CAMPING 5] E Mod;

G Spec
S2-2
FEBT



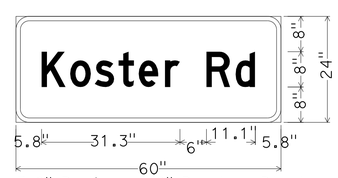
9.0" Radius, 1.5" Border, White on Green;
[Chrisman] E Mod; [Road] E Mod; [NEXT RIGHT] E;

G86(CA)
S3-5
FWBT



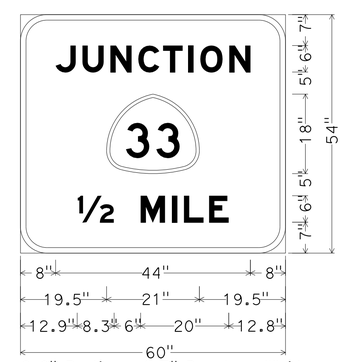
6.0" Radius, 1.3" Border, White on Green;
[Modesto 19] E Mod; [La Grange 51] E Mod;
[Coulterville 75] E Mod;

G5(CA)
S12-4
FEBT



3.0" Radius, 1.0" Border, Black on Orange;
[Koster Rd] D 70% spacing;

G7-2(CA)
S14-4/S15-2
FEBT/FWBT



6.0" Radius, 1.3" Border, White on Green;
[JUNCTION] E Mod;
[½ MILE] E Mod;

G77-4 (CA)(Mod)
S19-4
FEBT

SIGN DETAILS

NO SCALE **SD-1**

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

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
REVISED BY: FL
DATE REVISED: 04-25-15

LAST REVISION 10-01-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

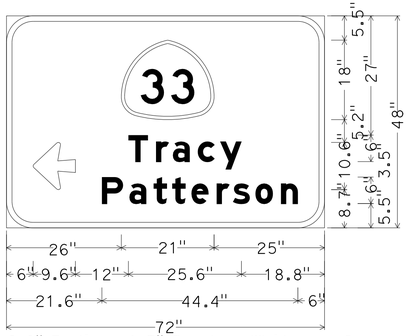
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	263	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

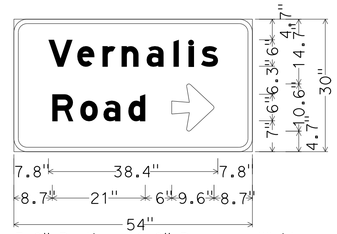
REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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.



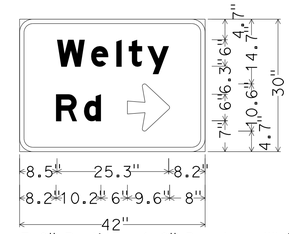
6.0" Radius, 1.3" Border, White on Green;
Arrow 6UC-2LH - 9.6" 180°;
[Tracy] E Mod; [Patterson] E Mod;

G78-1(CA)
S20-4
FEBT



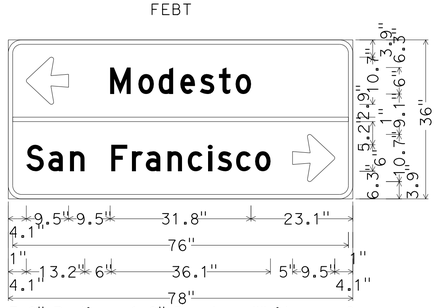
3.0" Radius, 1.0" Border, White on Green;
[Vernalis] E Mod;
[Road] E Mod;
Arrow 6UC-2LH - 9.6" 0°;

G8-22(CA)
S20-14
Rte 33



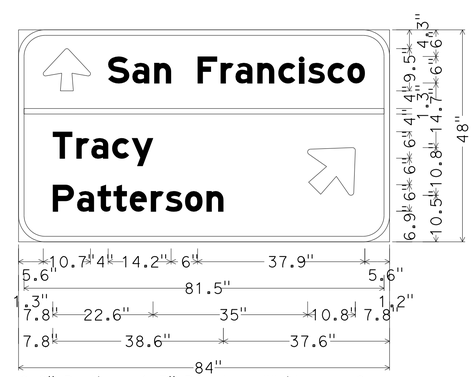
3.0" Radius, 1.0" Border, White on Green;
[Welty] E Mod;
[Rd] E Mod;
Arrow 6UC-2LH - 9.6" 0°;

G8-22(CA)
S21-4
FEBT



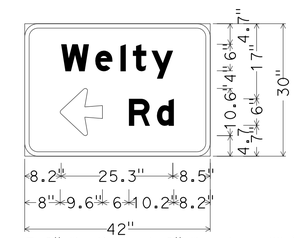
3.0" Radius, 1.0" Border, White on Green;
Arrow 6UC-2LH - 9.6" 180°; [Modesto] D;
[San Francisco] D 80} spacing;
Arrow 6UC-2LH - 9.6" 0°;

G8-7(CA)
S21-12
FEBT



6.0" Radius, 1.3" Border, White on Green;
Arrow 6UC-2LH - 9.6" 90°;
[San Francisco] E Mod 50} spacing;
[Tracy] E Mod 50} spacing;
[Patterson] E Mod 50} spacing;
Arrow 6CAP-2LH - 12.8" 45°;

G8-10(CA)
S21-14
FWBT

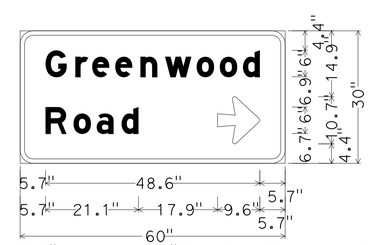


3.0" Radius, 1.0" Border, White on Green;
[Welty] E Mod;
Arrow 6UC-2LH - 9.6" 180°;
[Rd] E Mod;

G8-22(CA)
S22-6
FWBT

3.0" Radius, 1.0" Border, White on Green;
[Greenwood] E Mod;
Arrow 6UC-2LH - 9.6" 180°;
[Road] E Mod;

G8-22(CA)
S23-2
FEBT



3.0" Radius, 1.0" Border, White on Green;
[Greenwood] E Mod;
[Road] E Mod;
Arrow 6UC-2LH - 9.6" 0°;

G8-22(CA)
S24-4
FWBT

SIGN DETAILS
SD-2

NO SCALE

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

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
REVISED BY: FL
DATE REVISED: 04-10-15

LAST REVISION: DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:29
10-01-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	264	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 CIVIL STATE OF CALIFORNIA

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

NOTES:

- EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- THE PROCUREMENT STANDARD FOR YELLOW WARNING SIGNS, PLAQUES AND PANEL BACKGROUNDS IS FLOURESENT YELLOW.
- * QUANTITY INCLUDED IN MGS TABLE IN SUMMARY OF QUANTITIES.

ROADSIDE SIGN ITEMS

SHEET No.	DIRECTION	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	SINGLE FACED	No. OF POST AND SIZE	BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVITY ASTM TYPE	LEGEND SHEETING COLOR	LEGEND RETROREFLECTIVITY ASTM TYPE	GRAFFITI FLOW PREMIUM	FURNISH SINGLE SHEET ALUMINUM SIGN 0.063"-UNFRAMED	0.080"-UNFRAMED	0.080"-FRAMED	(0.063"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.063"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	RETRO-REFLECTIVE SHEETING TYPE XI	ROADSIDE SIGN - ONE POST	ROADSIDE SIGN - TWO-POST	REMOVE ROADSIDE SIGN	TREATED WOOD WASTE *	REMOVE SIGN FROM ELECTROLIER	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	REMOVE ROADSIDE SIGN PANEL	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST
														SQFT							SQFT	EA	EA	EA	LB	EA	EA	EA	EA
PD-1	FWBT	S1-1		G85-1(CA)	CHRISMAN Rd with ARROW																							1	
		S1-2		G85-1(CA)	CHRISMAN Rd with ARROW	156"x78"	×		GREEN	XI	WHITE	XI	×							84.5	84.5								1
	FEBT	S1-3		S30-1(CA)	DAYLIGHT HEADLIGHT SECTION																			1	240				
		S1-4		S30-1(CA)	DAYLIGHT HEADLIGHT SECTION	84"x54"	×	2-6"x6"	WHITE	IX	BLACK		×			31.5							1						
PD-2	FEBT	S2-1	W9-1		RIGHT LANE ENDS	48"x48"	×	1-4"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
		S2-2	G Spec		↑ CAMPING 5																			1	160				
		S2-3	G Spec		↑ CAMPING 5	84"x24"	×	2-4"x6"	BLUE	XI	WHITE	XI	×							14.0	14.0		1						
		S2-4		S30-2(CA)	TURN ON HEADLIGHT NEXT 19 MILES																			1	240				
		S2-5		S30-2(CA)	TURN ON HEADLIGHT NEXT 19 MILES	108"x54"	×	2-6"x6"	WHITE	IX	BLACK		×			40.5							1						
		S2-6	W12-2		LOW CLEARANCE																			1	120				
		S2-7	W12-2		LOW CLEARANCE	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
	FWBT	S2-8		S30-5(CA)	CHECK HEADLIGHTS																			1	120				
		S2-9		S30-5(CA)	CHECK HEADLIGHTS	84"x42"	×	2-4"x6"	WHITE	IX	BLACK		×			24.5							1						
		S2-10		S30-3(CA)	END DAYLIGHT HEADLIGHT SECTION																			1	240				
		S2-11		S30-3(CA)	END DAYLIGHT HEADLIGHT SECTION	84"x66"	×	2-6"x6"	WHITE	IX	BLACK		×			38.5							1						
PD-3	FEBT	S3-1		S30-4(CA)	TURN ON HEADLIGHTS																			1	160				
		S3-2		S30-4(CA)	TURN ON HEADLIGHTS	84"x42"	×	2-4"x6"	WHITE	IX	BLACK		×			24.5							1						
		S3-3	W4-2		LANE ENDS	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
	FWBT	S3-4		G86(CA)	CHRISMAN ROAD NEXT RIGHT																							1	
		S3-5		G86(CA)	CHRISMAN ROAD NEXT RIGHT	156"x78"	×		GREEN	XI	WHITE	XI	×							84.5	84.5		1						1
		S3-6	W12-2		LOW CLEARANCE																								
		S3-7	W12-2		LOW CLEARANCE	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
PD-4	FEBT	S4-1	R4-1		DO NOT PASS	36"x48"	×	1-4"x6"	WHITE	IX	BLACK		×				12.0				11.3	1							
PD-6	FEBT	S6-1		G84-2(CA)	EXIT with ARROW																			1	120				
		S6-2		G84-2(CA)	EXIT with ARROW	54"x48"	×	1-6"x6"	GREEN	XI	WHITE	XI						18.0			18.0	1							
PD-7	FWBT	S7-1	W4-1		MERGING TRAFFIC																			1	120				
		S7-2	W4-1		MERGING TRAFFIC	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
		S7-3		G84-2(CA)	EXIT with ARROW																			1	120				
		S7-4		G84-2(CA)	EXIT with ARROW	54"x48"	×	1-6"x6"	GREEN	XI	WHITE	XI						18.0			18.0	1							
PD-8	FEBT	S8-1	W4-3		ADDED LANE																			1	120				
		S8-2	W4-3		ADDED LANE	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
PD-10	FWBT	S10-1		G28-2(CA,132)	STATE ROUTE MARKER																					1			
			M3-4		WEST																								
		S10-2		G28-2(CA,132)	STATE ROUTE MARKER	32"x25"	×		GREEN	XI	WHITE	XI	×				5.6				5.6								
			M3-4		WEST	24"x12"			GREEN	XI	WHITE	XI	×				2.0				2.0						1		
		S10-3	W4-3		ADDED LANE																			1	120				
		S10-4	W4-3		ADDED LANE	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
		S10-5	E5-1		EXIT GORE																			1					
		S10-6	E5-1		EXIT GORE	72"x60"	×	1-6"x6"	GREEN	XI	WHITE	XI	×						30.0			1			120				
SHEET TOTAL																159.5	19.6	148.0	30.0	183.0	349.9	11	7	13	2,000	1	1	2	2

SIGN QUANTITIES
SQ-1

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

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: CECILE NGUYEN
CHECKED BY: HUE NGUYEN
REVISED BY: FL
DATE REVISED: 06-23-15 12-04-15
HN

LAST REVISION 12-04-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	265	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 CIVIL STATE OF CALIFORNIA

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ROADSIDE SIGN ITEMS

SHEET No.	DIRECTION	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	SINGLE FACED	No. OF POST AND SIZE	BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVITY ASTM TYPE	LEGEND SHEETING COLOR	LEGEND RETROREFLECTIVITY ASTM TYPE	GRAFFITI FLOW PREMIUM	FURNISH SINGLE SHEET ALUMINUM SIGN 0.063"-UNFRAMED	0.080"-UNFRAMED	0.080"-FRAMED	(0.063"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.063"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	RETRO-REFLECTIVE SHEETING TYPE XI	ROADSIDE SIGN - ONE POST	ROADSIDE SIGN - TWO-POST	REMOVE ROADSIDE SIGN	TREATED WOOD WASTE *	REMOVE SIGN FROM ELECTROLIER	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	REMOVE ROADSIDE SIGN PANEL	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST
														SQFT							SQFT	EA	EA	EA	LB	EA	EA	EA	EA
PD-10	FEBT	S10-7	E5-1		Exit Gore																			1	120				
		S10-8	E5-1		Exit Gore	72"x60"	×	1-6"x6"	GREEN	XI	WHITE	XI	×						30.0		30.0	1							
		S10-9	W4-1		MERGING TRAFFIC																			1	120				
		S10-10	W4-1		MERGING TRAFFIC	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
PD-11	FWBT	S11-1	W4-1		MERGING TRAFFIC																			1	120				
		S11-2	W4-1		MERGING TRAFFIC	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
	FEBT	S11-3	W13-2		ADVISORY EXIT SPEED																					1			
		S11-4	W13-2		ADVISORY EXIT SPEED	48"x60"	×		YELLOW	XI	BLACK		×					20.0			20.0						1		
		S11-5	W4-1		MERGING TRAFFIC																					1			
		S11-6	W4-1		MERGING TRAFFIC	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0						1		
		S11-7	E5-1		Exit Gore																			1	120				
		S11-8	E5-1		Exit Gore	72"x60"	×	1-6"x6"	GREEN	XI	WHITE	XI	×						30.0		30.0	1							
	FWBT	S11-9	E5-1		Exit Gore																			1	120				
		S11-10	E5-1		Exit Gore	72"x60"	×	1-6"x6"	GREEN	XI	WHITE	XI	×						30.0		30.0	1							
PD-12	FEBT	S12-1		G28-2(CA)	STATE ROUTE MARKER																					1			
			M3-2		EAST																								
		S12-2		G28-2(CA)	STATE ROUTE MARKER	32"x25"	×		GREEN	XI	WHITE	XI	×			5.6					5.6						1		
			M3-2		EAST	24"x12"	×		GREEN	XI	WHITE	XI	×			2.0					2.0								
		S12-3	W9-1		RIGHT LANE ENDS	60"x60"	×	2-4"x6"	YELLOW	XI	BLACK	XI	×						25.0		25.0		1						
		S12-4		G5(CA)	DISTANCE	114"x54"	×	2-6"x6"	GREEN	XI	WHITE	XI	×							42.8	42.8		1						
		S12-5		G5(CA)	DISTANCE																			1	240				
		S12-6	R2-1		SPEED LIMIT 55																			1	80.0				
				R48-1(CA)	RADAR ENFORCED																								
		S12-7	R2-1		SPEED LIMIT 55	36"x48"	×	1-4"x6"	WHITE	IX	BLACK		×	12.0								1							
				R48-1(CA)	RADAR ENFORCED	36"x18"	×		WHITE	IX	BLACK		×	4.5															
		S12-8	W6-2		DIVIDED HIGHWAY ENDS																			1	120				
		S12-9	W6-2		DIVIDED HIGHWAY ENDS																			1	120				
		S12-10	W6-2		DIVIDED HIGHWAY ENDS	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
		S12-11	W6-2		DIVIDED HIGHWAY ENDS	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
		S12-12	W4-2		LANE ENDS	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
		S12-13	W4-2		LANE ENDS	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
		S12-14	W9-1		RIGHT LANE ENDS																			1	120				
PD-13	FEBT	S13-1	W1-4		REVERSE CURVE																			1	120				
		S13-2	W1-4		REVERSE CURVE																			1	120				
		S13-3	W1-4		REVERSE CURVE	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0			16.0	1							
		S13-4	W1-4		REVERSE CURVE	48"x48"	×	1-6"x6"	YELLOW	XI	BLACK		×					16.0				1							
		S13-5	W4-2		RIGHT LANE ENDS SYMBOL																			1	120				
		S13-6	W4-2		RIGHT LANE ENDS SYMBOL																			1	120				
		S13-7	R4-1		DO NOT PASS	36"x48"	×	1-4"x6"	WHITE	IX	BLACK		×	12.0								1							
		S13-8	R4-1		DO NOT PASS	36"x48"	×	1-4"x6"	WHITE	IX	BLACK		×	12.0								1							
SHEET TOTAL														40.5			7.6	164.0	115.0	42.8	313.4	14	2	14	1,760	3	3		

SIGN QUANTITIES
SQ-2

REVISED BY	DATE REVISED
HN	12-04-15
FL	06-22-15

CECILE NGUYEN — HUE NGUYEN — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 10-01-15 — DATE PLOTTED => 11-JAN-2016 — TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	266	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 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.

ROADSIDE SIGN ITEMS

SHEET No.	DIRECTION	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	SINGLE FACED	No. OF POST AND SIZE	BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVITY ASTM TYPE	LEGEND SHEETING COLOR	LEGEND RETROREFLECTIVITY ASTM TYPE	GRAFFITI FLOW PREMIUM	FURNISH SINGLE SHEET ALUMINUM SIGN 0.063"-UNFRAMED	0.080"-UNFRAMED	0.080"-FRAMED	(0.063"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.063"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	RETRO-REFLECTIVE SHEETING TYPE XI	ROADSIDE SIGN - ONE POST	ROADSIDE SIGN - TWO-POST	REMOVE ROADSIDE SIGN	TREATED WOOD WASTE *	REMOVE SIGN FROM ELECTROLIER	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	REMOVE ROADSIDE SIGN PANEL	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST
														SQFT							SQFT	EA	EA	EA	LB	EA	EA	EA	EA
PD-13	FEBT	S13-9	W1-3L		CHEVRON ALIGMENT																			1	80				
		S13-10	W1-3L		CHEVRON ALIGMENT	30"x36"	x	1-4"x6"	YELLOW	XI	BLACK		x				7.5				7.5	1							
		S13-11	W1-3L		CHEVRON ALIGMENT																			1	80				
		S13-12	W1-3L		CHEVRON ALIGMENT	30"x36"	x	1-4"x6"	YELLOW	XI	BLACK		x				7.5				7.5	1							
		S13-13	W1-3L		CHEVRON ALIGMENT																			1	80				
		S13-14	W1-3L		CHEVRON ALIGMENT	30"x36"	x	1-4"x6"	YELLOW	XI	BLACK		x				7.5				7.5	1							
		S13-15	W1-3L		CHEVRON ALIGMENT																			1	80				
		S13-16	W1-3L		CHEVRON ALIGMENT	30"x36"	x	1-4"x6"	YELLOW	XI	BLACK		x				7.5				7.5	1							
	FWBT	S13-17	R5-1		DO NOT ENTER																			1	240				
			R5-1a		WRONG WAY																								
		S13-18	R5-1		DO NOT ENTER	72"x72"	x	2-6"x6"	RED	XI	WHITE	XI	x						36.0		36.0		1						
			R5-1a		WRONG WAY	72"x21"			RED	XI	WHITE	XI	x						10.5		10.5								
PD-14	FEBT	S14-1	R5-1		DO NOT ENTER																			1	240				
			R5-1a		WRONG WAY																								
		S14-2	R5-1		DO NOT ENTER	72"x72"	x	2-6"x6"	RED	XI	WHITE	XI	x						36.0		36.0		1						
			R5-1a		WRONG WAY	72"x21"			RED	XI	WHITE	XI	x						10.5		10.5								
		S14-3	W2-1		CROSS ROAD																			1	80				
				G7-2(CA)	KOSTER Rd																								
		S14-4	W2-1		CROSS ROAD	36"x36"	x	1-4"x6"	YELLOW	XI	BLACK		x				9.0				9.0								
				G7-2(CA)	KOSTER Rd	60"x24"			YELLOW	XI	BLACK		x						10.0		10.0	1							
	FNBT	S14-5	R1-1		STOP																			1	50				
		S14-6	R1-1		STOP	30"x30"	x	1-4"x4"	RED	XI	WHITE	XI	x				6.3				6.3	1							
	FSBT	S14-7	R1-1		STOP																			1	50				
		S14-8	R1-1		STOP	30"x30"	x	1-4"x4"	RED	XI	WHITE	XI	x				6.3				6.3	1							
	FWBT	S14-9	R4-7		KEEP RIGHT	36"x48"	x	1-4"x6"	WHITE	IX	BLACK			12.0								1							
		S14-10	R5-1		DO NOT ENTER	72"x72"	x	2-6"x6"	RED	XI	WHITE	XI	x						36.0		36.0		1						
			R5-1a		WRONG WAY	72"x21"			RED	XI	WHITE	XI							10.5		10.5								
PD-15	FWBT	S15-1	W2-1		CROSS ROAD																			1	80				
				G7-2(CA)	KOSTER Rd																								
		S15-2	W2-1		CROSS ROAD	36"x36"	x	1-4"x6"	YELLOW	XI	BLACK		x				9.0				9.0	1							
				G7-2(CA)	KOSTER Rd	60"x24"			YELLOW	XI	BLACK		x						10.0		10.0								
	FEBT	S15-3	R2-1(55)		SPEED LIMIT 55																			1	80				
				R48-1(CA)	RADAR ENFORCED																								
		S15-4	R2-1(55)		SPEED LIMIT 55	36"x48"	x	1-4"x6"	WHITE	IX	BLACK		x	12.0								1							
				R48-1(CA)	RADAR ENFORCED	36"x18"	x		WHITE	IX	BLACK		x	4.5															
		S15-5		S30-4(CA)	TURN ON HEADLIGHTS																			1	160				
		S15-6		S30-4(CA)	TURN ON HEADLIGHTS	84"x42"	x	2-4"x6"	WHITE	IX	BLACK		x			24.5							1						
PD-18	FEBT	S18-1	W6-3		TWO WAY TRAFFIC (SYMBOL)																			1	120				
		S18-2	W6-3		TWO WAY TRAFFIC (SYMBOL)	48"x48"	x	1-6"x6"	YELLOW	XI	BLACK		x					16.0			16.0	1							
SHEET TOTAL														28.5		24.5	60.6	16.0	159.5		220.1	11	4	13	1,420				

SIGN QUANTITIES
SQ-3

CALCULATED-DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR	REVISED BY	DATE REVISED
CECILE NGUYEN	HUE NGUYEN	MOHAMMED QATAMI	FL	06-22-15
			HN	12-04-15

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

LAST REVISION 10-12-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	267	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA

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ROADSIDE SIGN ITEMS

SHEET No.	DIRECTION	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	SINGLE FACED	No. OF POST AND SIZE	BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVITY ASTM TYPE	LEGEND SHEETING COLOR	LEGEND RETROREFLECTIVITY ASTM TYPE	GRAFFITI FLOW PREMIUM	FURNISH SINGLE SHEET ALUMINUM SIGN 0.063"-UNFRAMED	0.080"-UNFRAMED	0.080"-FRAMED	(0.063"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.063"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	RETRO-REFLECTIVE SHEETING TYPE XI	ROADSIDE SIGN - ONE POST	ROADSIDE SIGN - TWO-POST	REMOVE ROADSIDE SIGN	TREATED WOOD WASTE *	REMOVE SIGN FROM ELECTROLIER	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	REMOVE ROADSIDE SIGN PANEL	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST
														SQFT							SQFT	EA	EA	EA	LB	EA	EA	EA	EA
PD-18	FWBT	S18-3	W6-3		TWO WAY TRAFFIC (SYMBOL)																			1	120				
		S18-4	W6-3		TWO WAY TRAFFIC (SYMBOL)	48"x48"	x	1-6"x6"	YELLOW	XI	BLACK		x					16.0			16.0	1							
PD-19	FWBT	S19-1		S30-4(CA)	TURN ON HEADLIGHTS																			1	160				
		S19-2		S30-4(CA)	TURN ON HEADLIGHTS	84"x42"	x	2-4"x6"	WHITE	IX	BLACK		x		24.5								1						
	FEBT	S19-3		G77-4 (CA)Mod	JUNCTION 33 ½ MILE																			1	160				
		S19-4		G77-4 (CA)Mod	JUNCTION 33 ½ MILE	60"x54"	x	2-4"x6"	GREEN	XI	WHITE	XI	x						22.5		22.5								
PD-20	FEBT	S20-1	W2-2L		SIDE ROAD SYMBOL																			1	80				
		S20-2	W2-2L		SIDE ROAD SYMBOL	36"x36"		1-4"x6"	YELLOW	XI	BLACK		x				9.0				9.0	1							
		S20-3		G78-1(CA)	INTERCHANGE GUIDE																			1	160				
				G66-56(CA)	TRUCK ROUTE SYMBOL																								
			M6-3		DIRECTIONAL ARROW																								
		S20-4		G78-1(CA)	INTERCHANGE GUIDE	72"x48"	x	2-4"x6"	GREEN	XI	WHITE	XI	x						24.0		24.0								
				G66-56(CA)	TRUCK ROUTE SYMBOL	24"x24"	x		BLUE	XI	WHITE	XI	x				4.0				4.0		1						
			M6-3		DIRECTIONAL ARROW	21"x15"	x		BLUE	XI	WHITE	XI	x				2.2				2.2								
	FWBT	S20-5	W6-3		TWO WAY TRAFFIC (SYMBOL)																			1	120				
		S20-6	W6-3		TWO WAY TRAFFIC (SYMBOL)	48"x48"	x	1-6"x6"	YELLOW	XI	BLACK		x					16.0			16.0	1							
	CON1 LINE	S20-7	W4-1		MERGE																			1	120				
		S20-8	W4-1		MERGE	48"x48"	x	1-6"x6"	YELLOW	XI	BLACK		x					16.0			16.0	1							
		S20-9	W3-1		STOP AHEAD SYMBOL																			1	80				
		S20-10	W3-1		STOP AHEAD SYMBOL	36"x36"	x	1-4"x6"	YELLOW	XI	RED/BLACK		x				9.0				9.0	1							
		S20-11	W3-1		STOP AHEAD SYMBOL																			1	80				
		S20-12	W3-1		STOP AHEAD SYMBOL	36"x36"	x	1-4"x6"	YELLOW	XI	RED/BLACK		x				9.0				9.0	1							
	Rte 33	S20-13		G8-22(CA)	VERNALIS ROAD WITH ARROW																					1			
		S20-14		G8-22(CA)	VERNALIS ROAD WITH ARROW	54"x30"	x		GREEN	XI	WHITE	XI	x					11.3			11.3							1	
	FWBT CON1 LINE	S20-15	R1-1		STOP																			1	50				
		S20-16	R1-1		STOP	30"x30"	x	1-4"x4"	RED	XI	WHITE	XI	x				6.3				6.3	1							
		S20-17		G28-2(CA)	STATE ROUTE MARKER																			1	80				
			M6-4		DIRECTION ARROW																								
		S20-18		G28-2(CA)	STATE ROUTE MARKER	32"x25"	x	1-4"x6"	GREEN	XI	WHITE	XI	x				5.6				5.6	1							
			M6-4		DIRECTION ARROW	21"x15"	x		GREEN	XI	WHITE	XI	x				2.2				2.2								
PD-21	FEBT	S21-1	W1-7		LARGE ARROW (TWO DIRECTION)																			1	80				
			OM1-3		OBJECT MARKER TYPE N																								
		S21-2	W1-7		LARGE ARROW (TWO DIRECTION)	48"x24"	x	1-4"x6"	YELLOW	XI	BLACK		x					8.0			8.0	1							
			OM1-3		OBJECT MARKER TYPE N	18"x18"	x		YELLOW	XI	BLACK		x				2.3				2.3								
		S21-3		G8-22(CA)	WELTY RD WITH ARROW																			1	80				
		S21-4		G8-22(CA)	WELTY RD WITH ARROW	42"x30"	x	1-4"x6"	GREEN	XI	WHITE	XI	x				8.8				8.8	1							
	CON1 LINE	S21-5	R5-1		DO NOT ENTER																					1			
			R5-1a		WRONG WAY																								
		S21-6	R5-1		DO NOT ENTER	36"x36"	x		RED	XI	WHITE	XI	x				9.0				9.0							1	
			R5-1a		WRONG WAY	36"x18"	x		RED	XI	WHITE	XI	x				4.5				4.5								
		S21-7	R5-1		DO NOT ENTER																			1	80				
			R5-1a		WRONG WAY																								
		S21-8	R5-1		DO NOT ENTER	36"x36"	x	1-4"x6"	RED	XI	WHITE	XI	x				9.0				9.0	1							
			R5-1a		WRONG WAY	36"x18"	x		RED	XI	WHITE	XI	x				4.5				4.5								
SHEET TOTAL															24.5		91.7	67.3	46.5		199.2	11	2	14	1,450	2	2		

SIGN QUANTITIES
SQ-4

REVISED BY	DATE REVISED
HN	12-04-15
FL	06-19-15

CECILE NGUYEN — HUE NGUYEN
CALCULATED-DESIGNED BY — CHECKED BY
FUNCTIONAL SUPERVISOR — MOHAMMED QATAMI

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

LAST REVISION 08-06-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	268	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 CIVIL STATE OF CALIFORNIA

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ROADSIDE SIGN ITEMS

SHEET No.	DIRECTION	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	SINGLE FACED	No. OF POST AND SIZE	BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVITY ASTM TYPE	LEGEND SHEETING COLOR	LEGEND RETROREFLECTIVITY ASTM TYPE	GRAFFITI FLOW PREMIUM	FURNISH SINGLE SHEET ALUMINUM SIGN 0.063"-UNFRAMED	0.080"-UNFRAMED	0.080"-FRAMED	(0.063"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.063"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	RETRO-REFLECTIVE SHEETING TYPE XI	ROADSIDE SIGN - ONE POST	ROADSIDE SIGN - TWO-POST	REMOVE ROADSIDE SIGN	TREATED WOOD WASTE *	REMOVE SIGN FROM ELECTROLIER	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	REMOVE ROADSIDE SIGN PANEL	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST
														SQFT							SQFT	EA	EA	EA	LB	EA	EA	EA	EA
PD-21	CON1 LINE	S21-9	R1-1		STOP																			1	50				
		S21-10	R1-1		STOP	30"x30"	×	1-4"x4"	RED	XI	WHITE	XI	×				6.3				6.3	1							
		S21-11		G28-2(CA)(132)	STATE ROUTE MARKER																			1	160				
			M6-4		DIRECTION ARROW																								
				G8-7(CA)	DESTINATION & ST NAME W ARROW																								
		S21-12		G28-2(CA)(132)	STATE ROUTE MARKER	32"x25"	×	2-4"x6"	GREEN	XI	WHITE	XI	×				5.6				5.6		1						
			M6-4		DIRECTION ARROW	21"x15"	×		GREEN	XI	WHITE	XI	×				2.2				2.2								
				G8-7(CA)	DESTINATION & ST NAME W ARROW	78"x36"	×		GREEN	XI	WHITE	XI	×						19.5		19.5								
	FWBT	S21-13		G8-10(CA)	DESTINATION & ST NAME W ARROW																			1	160				
		S21-14		G8-10(CA)	DESTINATION & ST NAME W ARROW	84"x48"	×	2-4"x6"	GREEN	XI	WHITE	XI	×							28.0	28.0		1						
	FEBT	S21-15	W4-2L		LEFT LANE ENDS SYMBOL	36"x36"	×	1-4"x6"	YELLOW	XI	BLACK	XI	×				9.0				9.0	1							
	CON1 LINE	S21-16	E5-1		EXIT GORE	72"x60"	×	1-6"x6"	GREEN	XI	WHITE	XI	×						30.0		30.0	1							
		S21-17	W4-1		MERGIN TRAFFIC																			1	80				
		S21-18	W4-1		MERGIN TRAFFIC	36"x36"	×	1-4"x6"	YELLOW	XI	BLACK	XI	×				9.0				9.0	1							
		S21-19	R1-2		YIELD SYMBOL																			1	80				
		S21-20	R1-2		YIELD SYMBOL	36"x36"	×	1-4"x6"	RED	XI	WHITE	XI	×				6.4				9.0	1							
		S21-21		G66-56(CA)	TRUCK ROUTE SYMBOL																			1	50				
			M6-4		DIRECTION ARROW																								
		S21-22		G66-56(CA)	TRUCK ROUTE SYMBOL	24"x24"	×	1-4"x4"	BLUE	XI	WHITE	XI	×				4.0				4.0	1							
			M6-4		DIRECTION ARROW	21"x15"	×		BLUE	XI	WHITE	XI	×				2.2				2.2								
PD-22	FNBT	S22-1	R1-1		STOP																			1	50				
		S22-2	R1-1		STOP	30"x30"	×	1-4"x4"	RED	XI	WHITE	XI	×				6.3				6.3	1							
	FWBT	S22-3	M2-1		JUNCTION																			1	50				
				G66-56(CA)	TRUCK ROUTE SYMBOL																								
		S22-4	M2-1		JUNCTION	21"x15"	×	1-4"x4"	GREEN	XI	WHITE	XI	×				2.2				2.2	1							
				G66-56(CA)	TRUCK ROUTE SYMBOL	24"x24"	×		BLUE	XI	WHITE	XI	×				4.0				4.0								
		S22-5		G8-22(CA)	WELTY Rd WITH ARROW																			1	80				
		S22-6		G8-22(CA)	WELTY Rd WITH ARROW	42"x30"	×	1-4"x6"	GREEN	XI	WHITE	XI	×				8.8				8.8	1							
SHEET TOTAL																	66.0		49.5	28.0	146.1	9	2	9	760				

SIGN QUANTITIES
SQ-5

REVISED BY	DATE REVISED
HN	12-04-15
FL	06-22-15

CECILE NGUYEN — HUE NGUYEN — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 10-12-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:29

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10	SJ	132	0.4/7.1	269	424

REGISTERED CIVIL ENGINEER 10-01-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HUE NGUYEN No. 74484 Exp 12/31/17 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.

ROADSIDE SIGN ITEMS

SHEET No.	DIRECTION	SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	SINGLE FACED	No. OF POST AND SIZE	BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVITY ASTM TYPE	LEGEND SHEETING COLOR	LEGEND RETROREFLECTIVITY ASTM TYPE	GRAFFITI FLOW PREMIUM	FURNISH SINGLE SHEET ALUMINUM SIGN 0.063"-UNFRAMED	0.080"-UNFRAMED	0.080"-FRAMED	(0.063"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-UNFRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.063"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	(0.080"-FRAMED) FOR RETROREFLECTIVE SHEETING(TYPE XI)	RETRO-REFLECTIVE SHEETING TYPE XI	ROADSIDE SIGN - ONE POST	ROADSIDE SIGN - TWO-POST	REMOVE ROADSIDE SIGN	TREATED WOOD WASTE *	REMOVE SIGN FROM ELECTROLIER	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	REMOVE ROADSIDE SIGN PANEL	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST
														SQFT							SQFT	EA	EA	EA	LB	EA	EA	EA	EA
PD-22	FWBT	S22-7	W1-7		LARGE ARROW (TWO DIRECTION)	36"x18"	x	1-4"x6"	YELLOW	XI	BLACK		x				4.5				4.5	1							
			OM1-3		OBJECT MARKER TYPE N	18"x18"	x		YELLOW	XI			x				2.3				2.3								
PD-23	FEBT	S23-1		G8-22(CA)	GREENWOOD Rd WITH ARROW																			1	80				
		S23-2		G8-22(CA)	GREENWOOD Rd WITH ARROW	60"x30"	x	1-4"x6"	GREEN	XI	WHITE	XI	x						12.5		12.5	1							
	FSBT	S23-3	R1-1		STOP																			1	50				
		S23-4	R1-1		STOP	30"x30"	x	1-4"x4"	RED	XI	WHITE	XI	x				6.3				6.3	1							
PD-24	FEBT	S24-1		G81-66(CA)	REPORT DRUNK DRIVER CALL 911																			1	80				
		S24-2		G81-66(CA)	REPORT DRUNK DRIVER CALL 911	36"x48"	x	1-4"x6"	BLUE	XI	WHITE	XI	x				12.0				12.0	1							
	FWBT	S24-3		G8-22(CA)	GREENWOOD Rd WITH ARROW																			1	80				
				R26A(CA)	NO PARKING ANY TIME																								
		S24-4		G8-22(CA)	GREENWOOD Rd WITH ARROW	60"x30"	x	1-4"x6"	GREEN	XI	WHITE	XI	x						12.5		12.5	1							
				R26A(CA)	NO PARKING ANY TIME	24"x30"	x		WHITE	IX	RED	IX	x	5.0															
		S24-5		G81-66(CA)	REPORT DRUNK DRIVER CALL 911																			1	80				
		S24-6		G81-66(CA)	REPORT DRUNK DRIVER CALL 911	36"x48"	x	1-4"x6"	BLUE	XI	WHITE	XI	x				12.0				12.0	1							
TOTAL THIS SHEET														5.0			37.1		25.0		62.1	6		5	370				
SHEET TOTAL SQ-1																159.5	19.6	148.0	30.0	183.0	349.9	11	7	13	2,000	1	1	2	2
SHEET TOTAL SQ-2														40.5			7.6	164.0	115.0	42.8	313.4	14	2	14	1,760	3	3		
SHEET TOTAL SQ-3														28.5		24.5	60.6	16.0	159.5		220.1	11	4	13	1,420				
SHEET TOTAL SQ-4															24.5		91.7	67.3	46.5		199.2	11	2	14	1,450	2	2		
SHEET TOTAL SQ-5																	66.0		49.5	28.0	146.1	9	2	9	760				
SHEET GRAND TOTAL														74.0	24.5	184.0	282.6	395.3	425.5	253.8	1290.8	62	17	68	7,760	6	6	2	2

SIGN QUANTITIES
SQ-6

REVISED BY	DATE REVISED
HN	12-04-15
FL	06-22-15

CECILE NGUYEN — HUE NGUYEN — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

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

LAST REVISION 10-12-15 — DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	270	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 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.

SIGN QUANTITIES

										SIGN STRUCTURE (TRUSS)		60" CIDH CONCRETE PILE SIGN FOUNDATION
TYPE	LOCATION	PM	STATION	ROUTE	ORIENTATION	X (N)	"h" (N)	Elev A	Elev B	FURNISH (LB)	INSTALL (LB)	(LF)
MVDS TYPE 35	1	0.7 WB	130+87.26 "WB"	132								
FULL CANTILEVER CMS MODEL 500	2	1.8 WB	190+11.45 "WB"	132	FEBT	12.84′	18.8′	211.08′	211.04′	13,742	13,742	22
CCTV MODEL 40	2	1.8 WB	190+36.47 "WB"	132								
FULL CANTILEVER CMS MODEL 500	3	2.2 EB	308+01.70 "EB"	132	FWBT	16.00′	18.6′	208.12′	208.18′	13,717	13,717	22
CCTV MODEL 40	3	2.2 EB	307+76.70 "EB"	132								
FULL CANTILEVER CMS MODEL 500	4	4.8 EB	347+96.11 "WB"	132	FWBT	13.00′	18.8′	133.37′	133.10′	13,742	13,742	22
CCTV MODEL 40	4	4.8 EB	347+71.11 "WB"	132								
FULL CANTILEVER CMS MODEL 500	5	4.8 WB	348+72.29 "WB"	132	FEBT	15.00′	19.3′	132.59′	131.92′	13,806	13,806	22
CCTV MODEL 40	5	4.8 WB	348+97.29 "WB"	132								
CCTV MODEL 40	6	6.6 WB	397+28.40 "A"	132								
									TOTAL	55,007	55,007	88

SIGN QUANTITIES
SQ-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN

FUNCTIONAL SUPERVISOR: NICHOLAS CHAN
CALCULATED-DESIGNED BY: TRIGONIO LEYVA
CHECKED BY: DANIEL HA
REVISED BY
DATE REVISED

LAST REVISION 12-11-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	271	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 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.

ROADWAY QUANTITIES SUMMARY

STAGE	LOCATION	ROUTE 132 EASTBOUND	ROUTE 132 MEDIAN	ROUTE 132 WESTBOUND	EMBANKMENT (N) CY	ROADWAY EXCAVATION CY	(N) * REMOVE BASE AND SURFACING SQFT	CLASS 2 AGGREGATE BASE CY	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT CY	JOINTED PLAIN CONCRETE PAVEMENT CY	HOT MIX ASPHALT (TYPE A) TON	HOT MIX ASPHALT (LEVELING) ** TON	RUBBERIZED HOT MIX ASPHALT (GAP GRADED) TON	COLD PLANE ASPHALT CONCRETE PAVEMENT SQYD	TACK COAT TON	ASPHALTIC EMULSION (FLUSH COAT) TON	SAND COVER (SEAL) TON	ASPHALT-RUBBER BINDER TON	PRECOATED SCREENINGS TON	SHOULDER BACKING TON	SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1 SQYD	CRACK AND SEAT SQYD	ISOLATION JOINT SEAL (SILICONE) LF
STAGE 1	"X01", "A" Sta 64+78.73 to "A" Sta 71+72.35		X		250	553		777			601				0.40								
	"X012", "A" Sta 65+78.73 to "A" Sta 72+51.25		X																				
	"X08", "A" Sta 141+38.53 to "A" Sta 45+96.21		X		41	1,156		1,074			814				0.56								
	"X02", "A" Sta 136+41.63 to "A" Sta 147+42.01		X																				
	"X03", "A" Sta 164+12.23 to "A" Sta 169+72.85		X		36	384		437			321				0.23								
	"X09", "A" Sta 180+25.59 to "A" Sta 190+41.58		X		43	424		470			345				0.24								
	"X04", "A" Sta 185+07.12 to "A" Sta 196++28.07		X		278	989		1,207			972				0.63								
	"X010", "A" Sta 193+13.72 to "A" Sta 197+87.09		X																				
	"X06", "A" Sta 202+01.72 to "A" Sta 223+60.85		X		229	1,460		1,817			1,380				0.95								
	"X011", "A" Sta 205+83.41 to "A" Sta 228+04.27		X																				
	"X015", "A" Sta 229+33.35 to "A" Sta 241+51.31		X		73	793		980			740				0.51								
	"X05", "A" Sta 230+94.44 to "A" Sta 236+94.38		X																				
	"X013", "A" Sta 252+81.63 to "A" Sta 259+57.79		X			326		237			174				0.12								
	SUB-TOTAL					6,085	-	6,999	-	-	5,347	-	-	-	3.64								
STAGE 2	"A" Sta 66+90.00 TO "A" Sta 68+00.00			X							24			184	0.08								
	"A" Sta 68+00.00 TO "A" Sta 86+37.00			X	1,028	5,387		2,197	1,549	805	892	-		-							8,233		3,654
	"A" Sta 89+27.50 TO "A" Sta 199+26.45			X	10,503	16,478	15,420	10,803	8,410	3,408	3,806	1,387		4,298	6.10						26,060		20,306
	"A" Sta 202+01.88 TO "A" Sta 259+40.00			X	1,168	10,840		1,901	3,803	1,521	2,729	-		4,118	1.89						19,125		9,802
	SUB-TOTAL			X		32,705		14,901	13,762	5,734	7,451	1,387		8,600	8.07						53,418		33,762
	SHEET TOTAL (TABLE 1 OF 3)					38,790		21,900	13,762	5,734	12,798	1,387		8,600	11.71						53,418		33,762

(N) - NOT A PAY ITEM, FOR INFORMATION ONLY
* - INCLUDED IN ROADWAY EXCAVATION
** - EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

SUMMARY OF QUANTITIES
Q-1

REVISED BY | DATE REVISED
TRIGONIO LEYVA | DANIEL HA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | NICHOLAS CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION 10-21-15 | DATE PLOTTED => 20-FEB-2016 | TIME PLOTTED => 08:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	272	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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ROADWAY QUANTITIES SUMMARY

STAGE	LOCATION	ROUTE 132 EASTBOUND	MEDIAN	WESTBOUND	EMBANKMENT (N) CY	ROADWAY EXCAVATION CY	(N) * REMOVE BASE AND SURFACING SQFT	CLASS 2 AGGREGATE BASE CY	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT CY	JOINTED PLAIN CONCRETE PAVEMENT CY	HOT MIX ASPHALT (TYPE A) TON	HOT MIX ASPHALT ** (LEVELING) TON	RUBBERIZED HOT MIX ASPHALT (GAP GRADED) TON	COLD PLANE ASPHALT CONCRETE PAVEMENT SQYD	TACK COAT TON	ASPHALTIC EMULSION (FLUSH COAT) TON	SAND COVER (SEAL) TON	ASPHALT-RUBBER BINDER TON	PRECOATED SCREENINGS TON	SHOULDER BACKING TON	SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1 SQYD	CRACK AND SEAT SQYD	ISOLATION JOINT SEAL (SILICONE) LF
STAGE 3 PHASE 1	"X01", "A" Sta 64+78.73 to "A" Sta 71+72.35		X	X	83	316		58			43												
	"X02", "A" Sta 65+78.73 to "A" Sta 72+51.25		X	X	64	579		127	107	31	62										493		261
	"X03", "A" Sta 164+12.23 to "A" Sta 169+72.85		X	X	49	418		129	79	51	45										471		193
	"X04", "A" Sta 185+07.12 to "A" Sta 196++28.07		X	X	22	396		185	101	81	58										660		305
	"X06", "A" Sta 205+83.41 to "A" Sta 210+57.94		X	X	29	489		185	125	66	72										686		246
	"X06", "A" Sta 217+21.10 to "A" Sta 23+61.02		X	X	39	343		119	87	38	50										451		142
	"X05", "A" Sta 230+56.39 to "A" Sta 236+94.36		X	X	28	394		144	88	57	51										525		215
SUB-TOTAL						2,937	-	889	587	324	338	-	-	-	-						3,286		1,362
STAGE 3 PHASE 2	"X02", "A" Sta 146+43.00 to "A" Sta 149+69.61		X	X		261		101	123		71										425		654
	"X03", "A" Sta 162+47.32 to "A" Sta 164+78.84		X	X		161		63	76		82			231	0.11						268		386
	"X04", "A" Sta 195+31.77 to "A" Sta 199+25.95		X	X		322		125	152		155			415	0.19						536		790
	"X06", "A" Sta 209+76.54 to "A" Sta 213+84.00		X	X		224		87	106		132			437	0.20						374		538
	"X06", "A" Sta 213+84.00 to "A" Sta 217+95.24		X	X		204		79	96		130			455	0.21						340		490
	"X05", "A" Sta 228+74.63 to "A" Sta 231+32.20		X	X		197		77	93		96			261	0.12						328		472
SUB-TOTAL						1,369		532	646		666			1,799	0.83						2,281		3,330
STAGE 4	"A" Sta 68+00.00 TO "A" Sta 87+40.00	X			442	4,967		1,926	1,584	542	1,032	-		915	0.42						7,455		3,840
	"A" Sta 90+21.10 TO "A" Sta 199+26.45	X			2,613	8,811		3,191	3,205	1,372	4,550	377	1,541	2,961	10.70					2,054	12,500		7,830
	"A" Sta 202+01.88 TO "A" Sta 261+00.00	X			634	11,363		3,388	3,472	423	5,677	-	554	1,618	2.55						13,842		6,725
SUB-TOTAL						25,141	-	8,505	8,261	2,337	11,259	377	2,095	5,494	13.67						33,797		18,395
SHEET TOTAL (TABLE 2 OF 3)						29,447		9,926	9,494	2,661	12,263	377	2,095	7,293	14.50					2,054	39,364		23,087

(N) - NOT A PAY ITEM, FOR INFORMATION ONLY
* - INCLUDED IN ROADWAY EXCAVATION
** - EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

SUMMARY OF QUANTITIES
Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN
FUNCTIONAL SUPERVISOR: NICHOLAS CHAN
CALCULATED-DESIGNED BY: TRIGONIO LEYVA
CHECKED BY: DANIEL HA
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:30
10-21-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	273	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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ROADWAY QUANTITIES SUMMARY

STAGE	LOCATION	ROUTE 132 EASTBOUND	ROUTE 132 MEDIAN	ROUTE 132 WESTBOUND	EMBANKMENT (N) CY	ROADWAY EXCAVATION CY	(N) * REMOVE BASE AND SURFACING SQFT	CLASS 2 AGGREGATE BASE CY	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT CY	JOINTED PLAIN CONCRETE PAVEMENT CY	HOT MIX ASPHALT (TYPE A) TON	HOT MIX ASPHALT ** (LEVELING) TON	RUBBERIZED HOT MIX ASPHALT (GAP GRADED) TON	COLD PLANE ASPHALT CONCRETE PAVEMENT SQYD	TACK COAT TON	ASPHALTIC EMULSION (FLUSH COAT) TON	SAND COVER (SEAL) TON	ASPHALT-RUBBER BINDER TON	PRECOATED SCREENINGS TON	SHOULDER BACKING TON	SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1 SQYD	CRACK AND SEAT SQYD	ISOLATION JOINT SEAL (SILICONE) LF
STAGE 5 PHASE 1	"X012", "A" Sta 65+78.73 to "A" Sta 72+51.25		X		175	546																	
	"X08", "A" Sta 127+05.09 to "A" Sta 138+73.69	X	X		64	450					68				0.15								
	"X09", "A" Sta 180+25.59 to "A" Sta 191+44.31	X	X		198	1,014		217	133	85	77										791		320
	"X010", "A" Sta 193+13.72 to "A" Sta 197+87.09	X	X		22	675		167	109	62	63										617		303
	"X011", "A" Sta 205+83.41 to "A" Sta 227+04.11	X	X		29	641		114	97	27	56										443		295
	"X011", "A" Sta 217+06.37 to "A" Sta 228+04.27	X	X		346	875		105	90	25	52										408		273
	"X015", "A" Sta 229+33.35 to "A" Sta 236+94.38	X	X		240	1,177		164	136	42	78										636		434
SUB-TOTAL					1,074	5,378		767	565	241	394				0.15						2,895		1,625
STAGE 5 PHASE 2	"X08" "A" Sta 145+00.00 TO "A" Sta 148+00.00	X									68			233	0.19								
	"X09" "A" Sta 177+00.00 TO "A" Sta 182+00.00	X				352		137	166		136			310	0.14						587		779
	"X010" "A" Sta 196+00.00 TO "A" Sta 200+00.00	X				225		87	106		115			414	0.19						374		565
	"X011" "A" Sta 209+00.00 TO "A" Sta 213+00.00	X				220		85	104		104			339	0.16						366		526
	"X011" "A" Sta 215+00.00 TO "A" Sta 218+00.00	X				208		81	98		99			319	0.15						347		499
	"X015" "A" Sta 226+00.00 TO "A" Sta 232+00.00	X				378		147	178		152			377	0.17						630		906
SUB-TOTAL						1,383		537	652		674			1,992	1.00						2,304		3,275
"A" Sta 261+00.00 TO "A" Sta 350+12.00		X		X							17,399	1,726	5,869	1,868	22.85	7	80	73	540	789		26,612	
"A" Sta 354+46.00 TO "A" Sta 416+00.00		X		X							1,099		3,208	1,916	6.59								
"CON1" Sta 353+00.00 TO "CON1" Sta 364+60.41				X	30	5,421		3,675			2,250		881		4.31						2,932		
"CON2" Sta 400+00.00 TO "CON2" Sta 403+57.13				X	1	1,073		586			359		140		0.69						872		
"CON3" Sta 500+00.00 TO "CON3" Sta 509+34.78				X	698	1,411		995			609		239		1.17						1,745		
SUB-TOTAL						7,905		5,256			21,716	1,726	10,337	3,784	35.61	7		73			5,549	26,612	
SHEET TOTAL (TABLE 3 OF 3)						14,666		6,560	1,217	241	22,784	1,726	10,337	5,776	36.76				540	789	10,748	26,612	4,900
SHEET TOTAL (TABLE 1 OF 3)						38,790		21,900	13,762	5,734	12,798	1,387		8,600	11.71						53,418		33,762
SHEET TOTAL (TABLE 2 OF 3)						29,447		9,926	9,494	2,661	12,263	377	2,095	7,293	14.50					2,054	39,364		23,087
ISLANDS (Conn Rte 132/33) AND GORE (FROM SHEET Q-6)						304		88			116		17										
DIKE (FROM SHEET Q-4)											445												
TAPERED EDGE (FROM SHEET Q-7)										106	17		47										
INDIVIDUAL SLAB REPLACEMENT (RSC) (FROM SHEET Q-6)						143																	
DRAINAGE INLET APRON (FROM SHEET Q-6)											40												
GRAND TOTAL						83,350		38,474	24,473	8,742	48,463	3,490	12,496	21,669	62.97	7	80	73	540	2,843	103,530	26,612	61,749

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SUMMARY OF QUANTITIES
Q-3

REVISED BY | DATE REVISED
TRIGONIO LEYVA | DANIEL HA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: NICHOLAS CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION | DATE PLOTTED => 20-FEB-2016 | TIME PLOTTED => 08:57
11-12-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	274	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 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.

DIKE AND CURB

LOCATION		PCC DIKE (N)			MINOR CONCRETE (DIKE)	MINOR CONCRETE (CURB)	PLACE HMA DIKE			HMA* (TYPE A) (N)	REMOVE AC DIKE
		(TYPE E)	(TYPE F)	(TYPE C)			(TYPE E)	(TYPE F)	(TYPE C)		
FROM	TO	LF	LF	LF	CY	CY	LF	LF	LF	TON	LF
"WB" 115+51.00	"WB" 116+61.00						110			2.9	110
"WB" 116+61.00	"WB" 129+62.26	1301	-	-	16.91						
"WB" 130+43.06	"WB" 131+30.56	-	88	-	0.58						
"WB" 131+30.56	"WB" 131+94.00	-	-	64	0.24						
"WB" 131+94.00	"WB" 134+97.00	303	-	-	3.94						
"WB" 138+65.25	"WB" 143+59.23	494	-	-	6.42						
"WB" 143+59.23	"WB" 143+84.23	-	25	-	0.16						
"WB" 144+30.90	"WB" 144+55.90	-	25	-	0.16						
"WB" 144+55.90	"WB" 145+18.40	-	-	63	0.23						
"WB" 145+18.40	"WB" 162+09.68	1692	-	-	22.00						
"WB" 162+09.68	"WB" 182+23.50	-	2014	-	13.29						
"WB" 182+23.50	"WB" 182+86.00	-		63	0.24						
"EB" 224+51.46	"EB" 226+90.00	239	-	-	3.11						
"EB" 226+90.00	"EB" 227+52.95	-	-	63	0.24						
"EB" 227+52.95	"EB" 228+27.95	-	75	-	0.49						
"EB" 228+27.95	"EB" 235+50.00	722	-	-	9.39						
"EB" 235+50.00	"EB" 236+13.25	-	-	64	0.24						
"EB" 236+13.25	"EB" 236+38.25	-	25	-	0.16						
"EB" 238+75.25	"EB" 240+65.90	191	-	-	2.48						
"EB" 240+65.90	"EB" 241+28.40	-	-	63	0.23						
"EB" 241+28.40	"EB" 241+90.90	-	63	-	0.41						
"EB" 241+90.90	"EB" 242+96.73	106	-	-	1.38						
"EB" 242+96.73	"EB" 243+59.23	-	-	63	0.23						
"EB" 243+59.23	"EB" 243+84.23	-	25	-	0.16						
"EB" 244+30.90	"EB" 244+55.90	-	25	-	0.16						
"EB" 244+55.90	"EB" 261+41.19	1686	-	-	21.92						
"EB" 393+57.89	"EB" 397+58.13	401	-	-	5.21						
"WB" 254+30.50	"WB" 259+11.91						482	-	-	12.7	482
"WB" 327+56.73	"WB" 336+83.42						927	-	-	24.4	
"WB" 359+57.36	"WB" 397+83.64						3,827	-	-	100.8	
"WB" 397+83.64	"WB" 398+46.14						-	-	63	0.5	
"WB" 398+46.14	"WB" 398+71.14						-	25	-	0.4	
"WB" 402+68.75	"WB" 402+93.75						-	25	-	0.4	25
"WB" 402+93.75	"WB" 403+56.25						-	-	63	0.5	63
"WB" 403+56.25	"CON1" 360+29.70						1,188	-	-	31.3	1188
"CON3" 500+98.61	"CON3" 508+29.34						731	-	-	19.3	
"WB" 331+94.44	"WB" 338+72.88						679	-	-	17.9	
"WB" 359+53.31	"WB" 387+07.82						2,755	-	-	72.4	
"WB" 388+01.49	"WB" 398+22.09						1,021	-	-	26.9	
"WB" 398+22.09	"WB" 398+84.59						-	-	63	0.5	
"WB" 398+84.59	"WB" 399+09.59						-	25	-	0.4	
"WB" 403+07.27	"WB" 403+32.27						-	25	-	0.4	25
"WB" 403+32.27	"WB" 403+94.77						-	-	63	0.5	63
"WB" 403+94.77	"A" 365+41.66						967	-	-	25.5	967
"A" 374+31.77	"A" 374+90.14						59	-	-	1.6	
ISLANDS Conn Rte 132/33 (SHEET Q-6)						35.9	800	-	-	-	1218
HMA OVERSIDE DRAIN										108.5	
TOTAL					109.98	35.9	13,436	100	252	444.9	4,141

HMA OVERSIDE DRAIN

SHEET	STATION	LENGTH (FT) (N)		REMOVE AC OVERSIDE DRAIN	PLACE HMA OVERSIDE DRAIN (N)	HMA** (TYPE A)	PLACE HMA (Misc AREA)
		EB	WB	EA	EA	TON	SQYD
L-1	"WB" 115+78.74	X	26	1	1	1.6	4.3
L-1	"WB" 122+58.24	X	29	1	1	1.8	5.3
L-2	"WB" 129+57.75	X	36	1	1	2.2	7.6
L-2	"WB" 133+58.11	X	40	1	1	2.5	9.0
L-2	"EB" 235+12.43	43	X	1	1	2.7	10.0
L-3	"WB" 138+79.76	X	51	1	1	3.2	12.6
L-3	"WB" 145+60.92	X	40	1	1	2.5	9.0
L-3	"WB" 150+58.30	X	53	1	1	3.3	13.3
L-3	"EB" 240+58.00	46	X	1	1	2.9	11.0
L-3	"EB" 245+67.83	37	X	1	1	2.3	8.0
L-3	"EB" 250+57.30	37	X	1	1	2.3	8.0
L-4	"WB" 157+75.40	X	38	1	1	2.4	8.3
L-4	"EB" 258+75.90	46	X	1	1	2.9	11.0
L-5	"WB" 171+43.45	X	60	1	1	3.7	15.6
L-5	"WB" 176+58.10	X	61	1	1	3.8	16.0
L-11	"WB" 259+07.28	X	24	1	1	1.5	3.6
L-16	"WB" 333+03.48	46	48	2	2	5.9	22.6
L-17	"WB" 336+80.00	X	46	1	1	2.9	11.0
L-17	"WB" 338+69.06	41	X	1	1	2.5	9.3
L-18	"WB" 364+55.11	33	45	2	2	4.8	9.3
L-19	"WB" 369+55.00	40	44	2	2	5.2	19.3
L-19	"WB" 374+53.81	44	46	2	2	5.6	21.3
L-19	"WB" 379+54.74	44	47	2	2	5.6	21.6
L-20	"WB" 386+68.31	32	X	1	1	2.0	6.3
L-20	"WB" 386+75.51	X	48	1	1	2.2	11.6
L-20	"WB" 388+05.39	34	X	1	1	2.1	7.0
L-20	"WB" 391+55.48	50	55	2	2	6.5	26.3
L-21	"WB" 407+56.92	76	67	2	2	8.9	56.3
L-22	"CON1" 362+10.38	X	33	X	1	2.1	6.6
L-22	"CON1" 364+38.60	X	41	1	1	2.6	9.3
L-22	"CON1" 363+40.20	X	26	1	1	1.6	4.3
L-22	"A" 365+37.79	46	X	1	1	2.9	11.0
L-22	"A" 367+55.77	X	21	1	1	1.3	3.6
L-22	"CON3" 508+25.94	X	35	1	1	2.2	7.3
DRAINAGE INLET APRON (SHEET Q-6)							308.0
TOTAL				40		108.5	724.6

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
* INCLUDED IN ROADWAY QUANTITIES SUMMARY, SHEET Q-3
** INCLUDED IN DIKE

SUMMARY OF QUANTITIES
Q-4

REVISED BY | DATE REVISED
TRIGONIO LEYVA | DANIEL HA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | NICHOLAS CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-DESIGN

LAST REVISION 11-21-15 | DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	275	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 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.

MIDWEST GUARDRAIL SYSTEM

STATION FROM	STATION TO	SIDE	MGS LF	DOUBLE MGS (WOOD POST) LF	ALTERNATIVE IN-LINE TERMINAL SYSTEM EA	ALTERNATIVE FLARED END TERMINAL SYSTEM EA	END ANCHOR ASSEMBLY (TYPE SFT) EA	TRANSITION RAILING (TYPE WB-31) EA	REMOVE GUARDRAIL LF	ALTERNATIVE CRASH CUSHION SYSTEM EA	RUBBER MAT SQYD	TREATED WOOD WASTE LB
"EB" Sta 227+52.95	"EB" Sta 228+27.95	Rt	75	-	1	-	1	-	78	-	55	987
"EB" Sta 236+13.25	"EB" Sta 236+38.25	Rt	-	-	1	-	-	1	107	-	33	1,354
"EB" Sta 235+93.48		MEDIAN	25	187.5	-	-	-	1	161	1	295	2,037
"WB" Sta 130+43.06	"WB" Sta 131+30.56	Lt	87.5	-	1	-	1	-	-	-	60	-
"WB" Sta 137+34.83	"WB" Sta 137+59.83	Lt	-	-	1	-	-	1	114	-	33	1,443
"WB" Sta 137+79.26		MEDIAN	25	175	-	-	-	1	162	1	310	2,050
"WB" Sta 143+59.23	"WB" Sta 143+84.23	Lt	25	-	-	-	1	-	-	-	11	-
"WB" Sta 144+30.90	"WB" Sta 144+55.90	Lt	-	-	1	-	-	1	105	-	33	1,329
"A" Sta 95+35.88		MEDIAN	37.5	25	-	-	1	-	-	1	68	-
"A" Sta 95+56.96		MEDIAN	37.5	25	-	-	1	-	157	1	68	1,987
"EB" Sta 241+27.98	"EB" Sta 243+59.23	Rt	231.3	-	1	-	-	1	194	-	131	2,455
"EB" Sta 244+30.90	"EB" Sta 244+55.90	Rt	25	-	-	-	1	-	-	-	11	-
"WB" Sta 162+09.68	"WB" Sta 182+23.50	Lt	2014	-	1	-	1	-	2,050	-	917	25,933
"WB" Sta 190+05.57	"WB" Sta 190+93.05	Lt	87.5	-	1	-	1	-	-	-	60	-
"EB" Sta 293+00.21	"EB" Sta 293+75.21	Rt	75	-	1	-	1	-	90	-	55	1,139
"EB" Sta 299+81.05	"EB" Sta 300+56.05	Rt	75	-	-	1	1	-	90	-	60	1,139
"EB" Sta 307+20.20	"EB" Sta 308+07.70	Rt	87.5	-	-	1	1	-	90	-	59	1,139
"A" Sta 161+88.94		MEDIAN	81.3	50	-	-	1	-	150	1	68	1,898
"A" Sta 162+51.02		MEDIAN	81.3	25	-	-	1	-	150	1	68	1,898
"EB" Sta 319+65.45	"EB" Sta 320+40.45	Rt	75	-	-	1	1	-	90	-	55	1,139
"EB" Sta 348+07.43		MEDIAN	25	150	-	-	-	1	405	1	170	5,124
"WB" Sta 250+41.60		MEDIAN	25	150	-	-	-	1	119	1	185	1,506
"A" Sta 213+53.99		MEDIAN	25	225	-	-	1	-	-	1	274	-
"A" Sta 215+70.05		MEDIAN	25	225	-	-	1	-	560	1	274	7,084
"A" Sta 229+08.88		MEDIAN	37.5	25	-	-	1	-	-	1	68	-
"A" Sta 229+29.97		MEDIAN	37.5	25	-	-	1	-	157	1	68	1,987
"WB" Sta 347+14.61	"WB" Sta 348+02.11	Rt	87.5	-	1	-	1	-	-	-	60	-
"WB" Sta 348+66.28	"WB" Sta 349+53.78	Lt	87.5	-	1	-	1	-	-	-	60	-
"WB" Sta 398+84.59	"WB" Sta 399+09.59	Rt	-	-	1	-	-	1	109	-	33	1,379
"WB" Sta 398+46.14	"WB" Sta 398+71.14	Lt	-	-	1	-	-	1	103	-	33	1,303
"WB" Sta 403+07.27	"WB" Sta 403+32.27	Rt	-	-	1	-	-	1	100	-	33	1,265
"WB" Sta 402+68.75	"WB" Sta 402+93.75	Lt	-	-	1	-	-	1	101	-	33	1,278
FROM SHEET SQ-6			-	-	-	-	-	-	-	-	-	7,760
TOTAL			3495.4	1287.5	15	3	20	12	5,442	12	3,741	76,613

TEMPORARY WATER POLLUTION CONTROL

LOCATIONS** STATION FROM	LOCATIONS** STATION TO	TEMPORARY FIBER ROLL LF	TEMPORARY DRAIN INLET PROTECTION (TYPE 3B) EA	TEMPORARY CHECK DAM (TYPE 2) LF	TEMPORARY HYDRAULIC MULCH SQYD	TEMPORARY SOIL BINDER SQYD	TEMPORARY SILT FENCE LF	TEMPORARY STRAW BALE BARRIER LF	TEMPORARY CONSTRUCTION ENTRANCE EA	TEMPORARY CONSTRUCTION ROADWAY SQYD	TEMPORARY GRAVEL BAG BERM LF
"A" 66+90.00	"A" 87+13.70	7,655	4	180	10,546	10,546	403	3,628	10	10,000	4,031
"A" 89+27.50	"A" 199+26.55	22,000	14	860	48,453	48,453					
"A" 202+01.14	"A" 400+38.09	22,560	6	680	39,862	39,862					
TOTAL		52,215	24	1,720	98,861	98,861	403	3,628	10	10,000	4,031

** EXACT LOCATION TO BE DETERMINED BY THE ENGINEER

CONCRETE BARRIER

STATION	DIRECTION	CONCRETE BARRIER (TYPE 60SD) LF
"WB" Sta 143+84.23 TO Sta 144+30.90	WB	46.7
"EB" Sta 243+84.23 TO Sta 244+30.90	EB	46.7
	TOTAL	93.4

SUMMARY OF QUANTITIES

Q-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-DESIGN

FUNCTIONAL SUPERVISOR: NICHOLAS CHAN
CALCULATED-DESIGNED BY: TRIGONIO LEYVA
CHECKED BY: DANIEL HA
REVISED BY
DATE REVISED

LAST REVISION 11-21-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	276	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. THE LENGTH OF PANELS AND PAVEMENT QUANTITY APPROXIMATE ONLY, EXACT TO BE DETERMINED IN THE FIELD.
2. REUSE GRATE AT DRAINAGE INLET APRON.

ISLANDS (Conn Rte 132/33) AND GORE

DESCRIPTION	CONC CURB (TYPE D-4)*		MINOR CONCRETE (TEXTURED PAVING) (BROOM FINISH)	MINOR CONCRETE (TEXTURED PAVING) (STAMPED BRICK PATTERN)	HMA DIKE (TYPE E)*	CLASS 2 AGGREGATE BASE**	ROADWAY EXCAVATION**	REMOVE AC DIKE*	HOT MIX ASPHALT (TYPE A)**	RUBBERISED HOT MIX ASPHALT (GAP GRADED)**
	LF (N)	CY	CY	CY	LF	CY	CY	LF	TON	TON
RAISED ISLAND, Rte 132/33 Conn, SEE SHEET C-8 DETAIL A	463	18.9	11	43		32	106			
RAISED ISLAND, Rte 132/33 Conn, SEE SHEET C-8 DETAIL B	128	5.2	3	5		5	16	128		
RAISED ISLAND, Rte 132/33 Conn, SEE SHEET C-8 DETAIL C	290	11.8	11	14	800	8	24	1090		
GORE, Rte 132, SEE SHEET C-9 DETAIL D			13	43		43	158		116	17
TOTAL		35.9	143		800	88	304	1218	116	17

INDIVIDUAL SLAB REPLACEMENT

WESTBOUND SJ-132 LANE WIDTH = 12'						Rdwy Exc **
SLAB No.	LOCATION	LENGTH OF PANEL (N)	(RSC)	LANE		
	PM	LF	CY	WB	EB	CY
1	5.80	130	77.4	X	X	77.4
2	5.24	50.6	15.1	X		15.1
3	5.21	25.1	7.5	X		7.5
4	5.09	17	5.1	X		5.1
5	5.09	18	5.4	X		5.4
6	5.05	12	3.6	X		3.6
7	5.04	17	5.1	X		5.1
8	5.02	17	5.1	X		5.1
9	4.83	20	6.0	X		6.0
10	4.45	18	5.4	X		5.4
11	4.44	26	7.7	X		7.7
		TOTAL	143.4			143.4

DRAINAGE INLET APRON

LOCATION MEDIAN STATION	EA (N)	PLACE HMA*** (Misc AREA) (a)	HMA** (TYPE A)	ADJUST PIPE INLET TO GRADE
		SQYD	TON	EA
"A" LINE 80+00.00	1	14	1.82	1
"A" LINE 84+47.85	1	14	1.82	1
"A" LINE 94+26.44	1	14	1.82	-
"A" LINE 99+95.32	1	14	1.82	1
"A" LINE 109+81.34	1	14	1.82	1
"A" LINE 115+50.00	1	14	1.82	-
"A" LINE 120+88.00	1	14	1.82	-
"A" LINE 131+97.00	1	14	1.82	-
"A" LINE 142+96.00	1	14	1.82	-
"A" LINE 152+15.00	1	14	1.82	-
"A" LINE 158+96.00	1	14	1.82	-
"A" LINE 166+97.00	1	14	1.82	-
"A" LINE 175+55.00	1	14	1.82	-
"A" LINE 180+97.00	1	14	1.82	-
"A" LINE 183+97.00	1	14	1.82	-
"A" LINE 191+97.00	1	14	1.82	-
"A" LINE 209+97.00	1	14	1.82	1
"A" LINE 220+48.00	1	14	1.82	-
"A" LINE 230+97.00	1	14	1.81	-
"A" LINE 237+96.00	1	14	1.81	-
"A" LINE 243+47.00	1	14	1.81	1
"A" LINE 246+96.00	1	14	1.81	-
"A" LINE 251+97.00	1	-	-	1
"A" LINE 254+95.00	1	-	-	1
TOTAL		308	40	8

* INCLUDED IN ROADWAY QUANTITIES SUMMARY, SHEET Q-4
** INCLUDED IN ROADWAY QUANTITIES SUMMARY, SHEET Q-3
*** INCLUDED IN HMA OVERSIDE DRAIN, SHEET Q-4
(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
(a) INCLUDED IN HMA OVERSIDE DRAIN, SHEET Q-4

SUMMARY OF QUANTITIES
Q-6

REVISED BY | DATE REVISED
TRIGONIO LEYVA | DANIEL HA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: NICHOLAS CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION 11-12-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	277	424

REGISTERED CIVIL ENGINEER 11-13-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DANIEL KYUNGWON HA No. 62601 Exp. 6-30-16 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.

RUMBLE STRIP

DIRECTION	LOCATION FROM	LOCATION TO	Conc Pvmt, GROUND-IN INDENTATIONS SHOULDER INSIDE Sta	Conc Pvmt SHOULDER OUTSIDE Sta	HMA, GROUND-IN INDENTATIONS SHOULDER INSIDE Sta	HMA SHOULDER OUTSIDE 1' WIDE Sta	HMA SHOULDER OUTSIDE 6" WIDE	HMA CENTER LINE Sta
WB	"WB" 115+78.74	"WB" 129+62.26		13.84		1.10		
	"WB" 116+61.00	"WB" 134+94.43	18.33					
	"WB" 130+87.26	"WB" 134+81.13		3.94				
	"WB" 137+88.43	"WB" 187+90.87		50.02				
	"WB" 200+61.59	"WB" 208+88.92		8.27				
	"WB" 138+01.84	"WB" 247+86.00	109.84			1.60		
	"WB" 250+60.82	"WB" 304+78.89	54.18					
	"WB" 295+09.83	"WB" 307+99.21		12.89				
	"WB" 307+99.21	"WB" 315+44.32				7.45		
	"WB" 318+97.86	"WB" 347+72.29				28.74		
	"WB" 331+32.89	"WB" 398+71.00						67.38
	"WB" 349+22.29	"WB" 397+71.00				49.49		
	"WB" 403+04.68	"WB" 410+60.61				7.56		
	"A" 371+32.08	"A" 397+16.76						25.85
	"A" 371+32.08	"A" 398+57.75				30.47		
EB	"EB" 215+51.00	"EB" 235+74.64	20.24			1.10		
	"EB" 218+55.48	"EB" 235+88.04		17.33				
	"EB" 238+82.00	"EB" 258+79.81	19.98					
	"EB" 238+95.43	"EB" 258+79.81		19.84				
	"EB" 258+79.81	"EB" 322+45.10			63.65			
	"EB" 258+79.81	"EB" 293+34.17				34.54		
	"EB" 298+00.00	"EB" 300+22.39				2.22		
	"EB" 301+08.86	"EB" 307+51.70				6.43		
	"EB" 309+01.70	"EB" 320+00.37				10.99		
	"EB" 320+88.70	"EB" 322+45.10				1.56		
	"EB" 322+45.10	"EB" 347+88.84	25.44					
	"EB" 350+64.03	"EB" 394+28.34	43.64					
	"EB" 382+16.13	"EB" 400+37.43		18.21				
	"EB" 394+28.34	"EB" 404+83.68			10.55			
	"EB" 400+37.43	"EB" 409+62.84				9.25		
	"WB" 309+56.40	"WB" 314+90.15				5.34		
	"WB" 318+91.00	"WB" 347+46.11				28.55		
	"WB" 348+96.11	"WB" 387+25.30				38.29		
	"WB" 388+00.38	"WB" 398+71.00				10.91		
	"WB" 403+04.68	"WB" 412+09.92				9.05		
	"A" 363+90.63	"A" 374+90.14				11.00		
	"A" 377+06.58	"A" 399+86.23				22.80		
	"A" 399+86.23	"A" 416+00.00					17.42	
TOTAL			435.99		410.06			93.23

TAPERED EDGE

LOCATION FROM	LOCATION TO	SIDE (N) INSIDE LF	SIDE (N) OUTSIDE LF	JPCP* CY	RHMA* (GAP GRADED) TON	HMA* (TYPE A) TON
"WB" 150+21.00	"WB" 182+86.00	3265		83.9		
"WB" 250+21.00	"WB" 258+79.81	858.81		22.1		
"WB" 258+79.81	"WB" 293+34.17	3454.36			8.8	
"EB" 293+34.17	"EB" 322+45.10	2910.93				7.6
"EB" 261+41.19	"EB" 293+25.21		3184.02			8.2
"EB" 302+08.86	"EB" 306+70.20		461.34			1.2
"WB" 307+99.21	"WB" 315+44.32		745.11		1.9	
"EB" 309+56.40	"EB" 314+90.15		533.75		1.4	
"WB" 318+97.86	"WB" 327+56.73		858.87		2.2	
"EB" 318+91.00	"EB" 331+94.44		1303.44		3.3	
"EB" 338+72.88	"EB" 346+64.61		791.73		2.0	
"EB" 348+96.11	"EB" 359+53.31		1057.20		2.8	
"WB" 349+03.78	"WB" 359+57.36		1053.58		2.8	
"RTE33" 10+93.68	"CON2" 362+48.30		1585.00		4.0	
"CON1" 350+79.69	"CON1" 360+29.70		974.80		2.5	
"A" 367+50.00	"A" 374+31.77		681.77		1.7	
"WB" 370+29.20	"WB" 400+38.09		3008.89		7.7	
"A" 377+06.58	"A" 400+38.09		2331.51		5.9	
TOTAL				106.0	47.0	17.0

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

* INCLUDED IN ROADWAY QUANTITIES SUMMARY, SHEET Q-3

SUMMARY OF QUANTITIES
Q-7

REVISED BY | DATE REVISED
TRIGONIO LEYVA | DANIEL HA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | NICHOLAS CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION 05-11-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	278	424

Ronald L. Richman 4-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

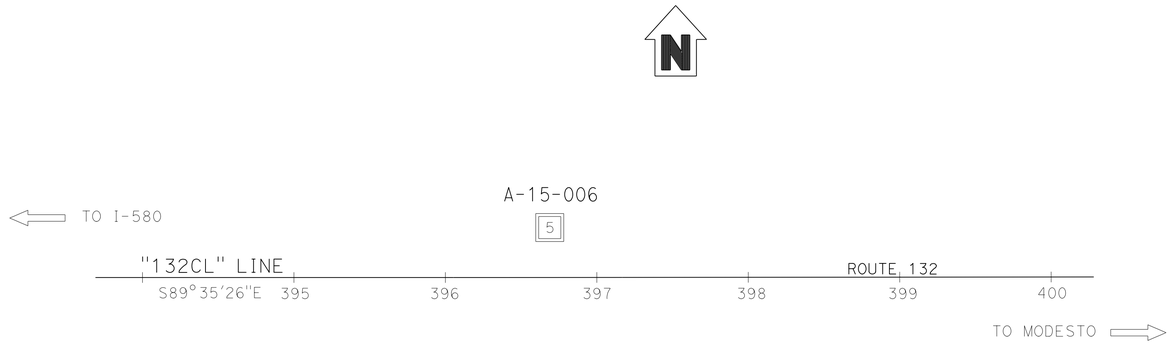
REGISTERED PROFESSIONAL ENGINEER
Ronald L. Richman
No. C039869
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).
See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

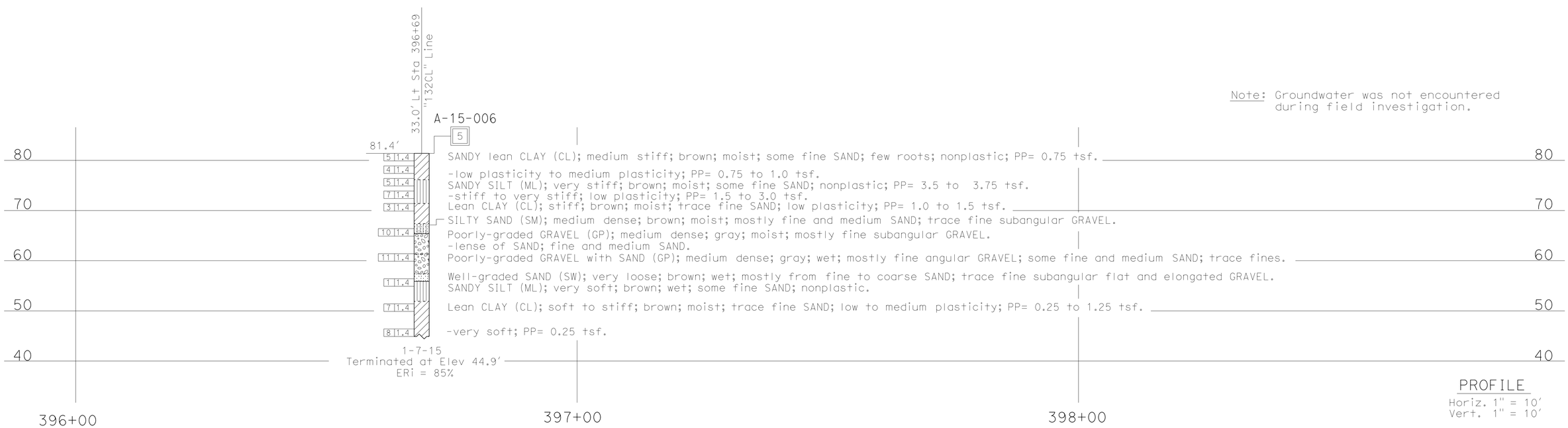
BENCH MARK

BM 674 Elev 81.35
1" iron pipe with red plastic control plug and cup tack
SJ 132 PM 6.74
NGVD 29 (Local)



PLAN
1" = 50'

Note: Groundwater was not encountered during field investigation.



PROFILE
Horiz. 1" = 10'
Vert. 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO.	MVDS, CMS AND CCTV INSTALLATIONS
FUNCTIONAL SUPERVISOR	DRAWN BY: F. Nguyen	FIELD INVESTIGATION BY:	DESIGN BRANCH X	POST MILE	LOG OF TEST BORINGS 5 OF 5
NAME: T. Menard	CHECKED BY: J. Martin	M. Owens (Kleinfelder)		0.4/7.1	

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3650
PROJECT NUMBER & PHASE: 10130000731 CONTRACT NO.: 10-0G8204

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
02-10-15	02-13-15	03-23-15	04-07-15	X	X

FILE => 1013000073qa0005.dgn

USERNAME => s113541 DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	279	424

Ronald L. Richman 4-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ronald L. Richman
No. C039869
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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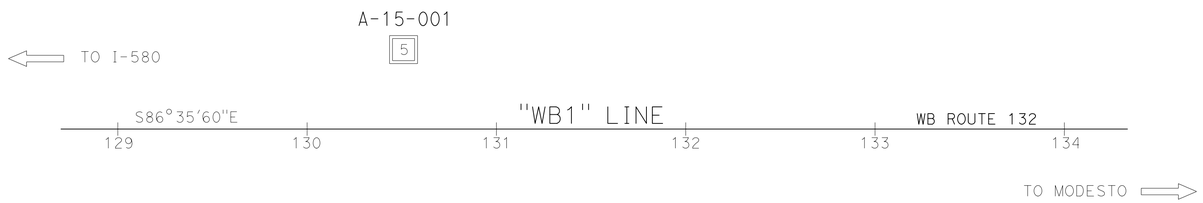
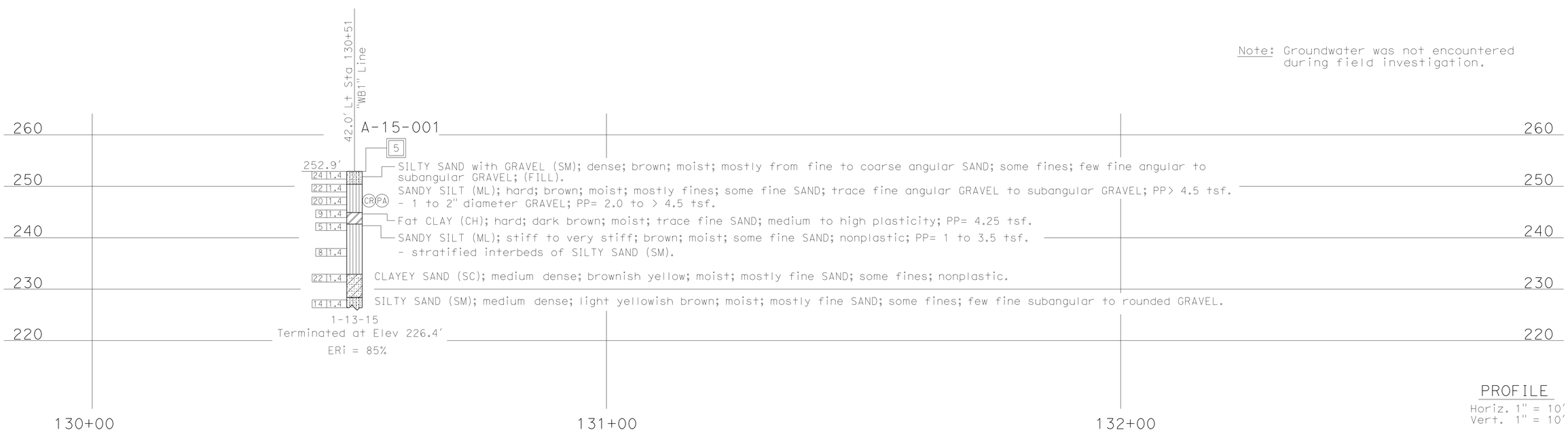
BENCH MARK

BM SINM101124
33' Lt WB1 Sta 130+40
Elev 252.97
NGVD 29 (Local)



PLAN
1" = 40'

Note: Groundwater was not encountered during field investigation.



PROFILE
Horiz. 1" = 10'
Vert. 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO.	MVDS, CMS AND CCTV INSTALLATIONS
FUNCTIONAL SUPERVISOR	DRAWN BY: F. Nguyen	FIELD INVESTIGATION BY:	DESIGN BRANCH X	POST MILE	LOG OF TEST BORINGS 1 OF 5
NAME: T. Menard	CHECKED BY: J. Martin	M. Owens (Kleinfelder)		0.4/7.1	

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3650
PROJECT NUMBER & PHASE: 10130000731 CONTRACT NO.: 10-0G8204

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
02-10-15	02-13-15	03-23-15	04-07-15	X	X

FILE => 1013000073qa001.dgn

USERNAME => s113541 DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	280	424

Ronald L. Richman 4-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ronald L. Richman
No. C039869
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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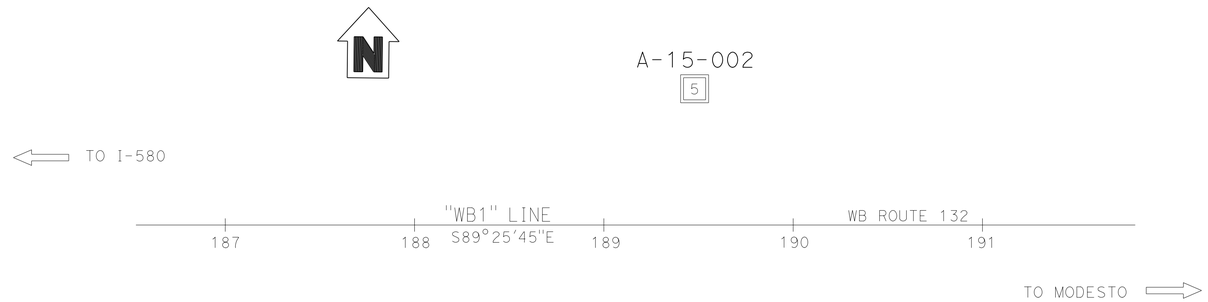
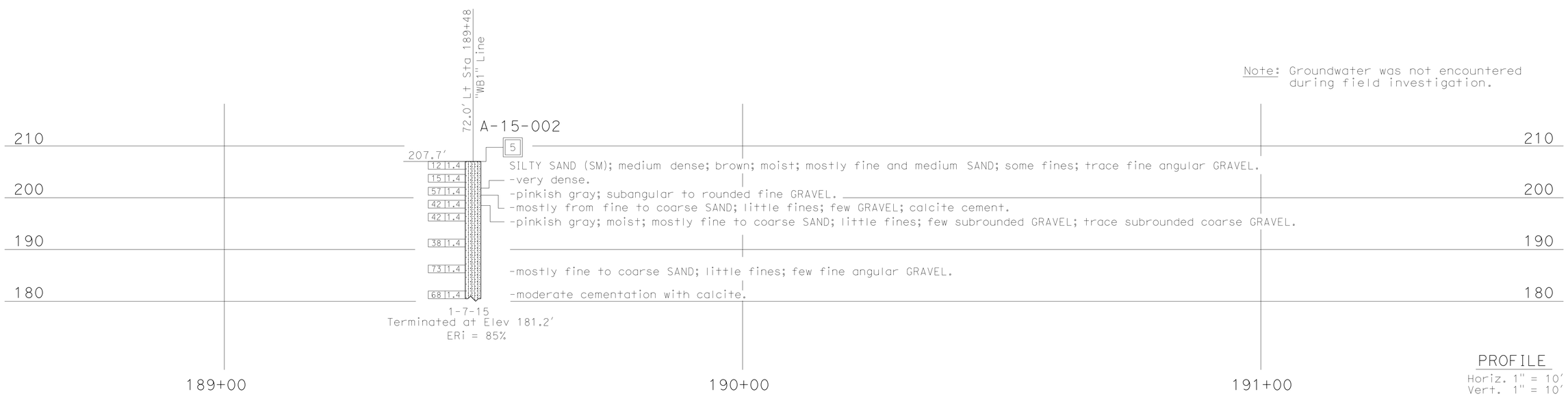
BENCH MARK

BM OM 141 Elev 208.60
brass disk in concrete
SJ 132 PM 1.84
NGVD 88 (Local)



PLAN
1" = 40'



Note: Groundwater was not encountered during field investigation.

PROFILE
Horiz. 1" = 10'
Vert. 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO.	MVDS, CMS AND CCTV INSTALLATIONS
FUNCTIONAL SUPERVISOR	DRAWN BY: F. Nguyen	FIELD INVESTIGATION BY:	DESIGN BRANCH X	POST MILE	LOG OF TEST BORINGS 2 OF 5
NAME: T. Menard	CHECKED BY: J. Martin	M. Owens (Kleinfelder)		0.4/7.1	

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3650
PROJECT NUMBER & PHASE: 10130000731 CONTRACT NO.: 10-0G8204

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
02-10-15	02-13-15	03-23-15	04-07-15	X	X

FILE => 1013000073qa002.dgn

USERNAME => s113541 DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	281	424

Ronald L. Richman 4-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ronald L. Richman
No. C039869
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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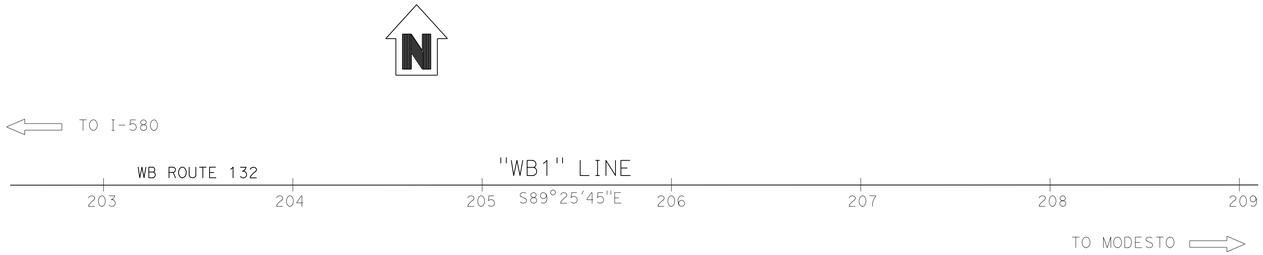
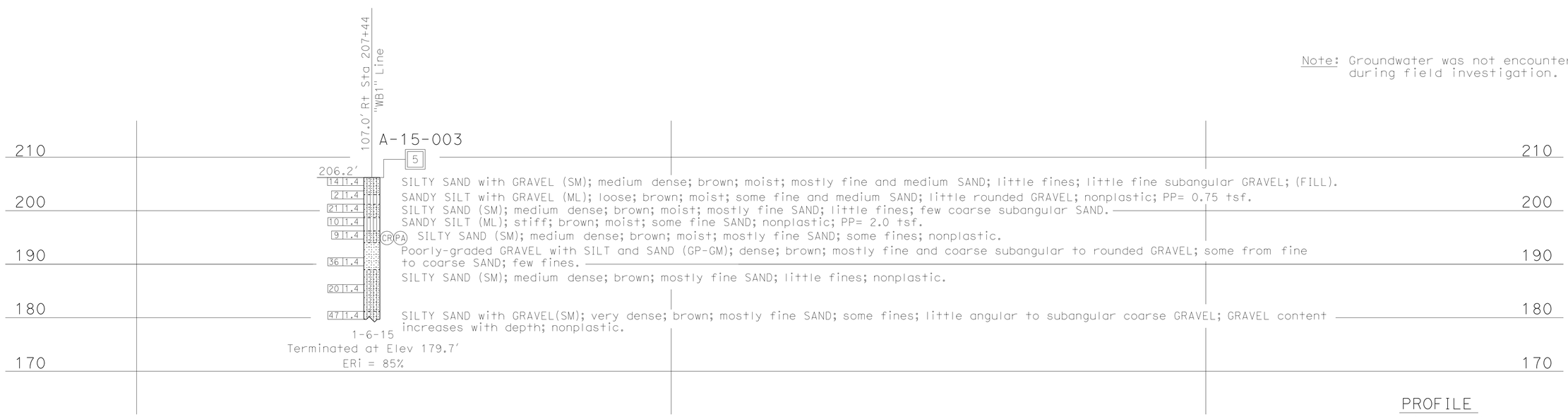
BENCH MARK

BM 217 Elev 206.42
1" iron pipe with red plastic control plug and cup tack
SJ 132 PM 2.17
NGVD 29 (Local)



PLAN
1" = 40'

Note: Groundwater was not encountered during field investigation.



PROFILE
Horiz. 1" = 10'
Vert. 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO.	MVDS, CMS AND CCTV INSTALLATIONS
FUNCTIONAL SUPERVISOR	DRAWN BY: F. Nguyen	FIELD INVESTIGATION BY:	DESIGN BRANCH X	POST MILE	LOG OF TEST BORINGS 3 OF 5
NAME: T. Menard	CHECKED BY: J. Martin	M. Owens (Kleinfelder)		0.4/7.1	

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3650
PROJECT NUMBER & PHASE: 10130000731 CONTRACT NO.: 10-0G8204

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 02-10-15 02-13-15 03-23-15 04-07-15 SHEET X OF X

FILE => 1013000073qa003.dgn

USERNAME => s113541 DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	282	424

Ronald L Richman 4-17-15
REGISTERED CIVIL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ronald L. Richman
No. C039869
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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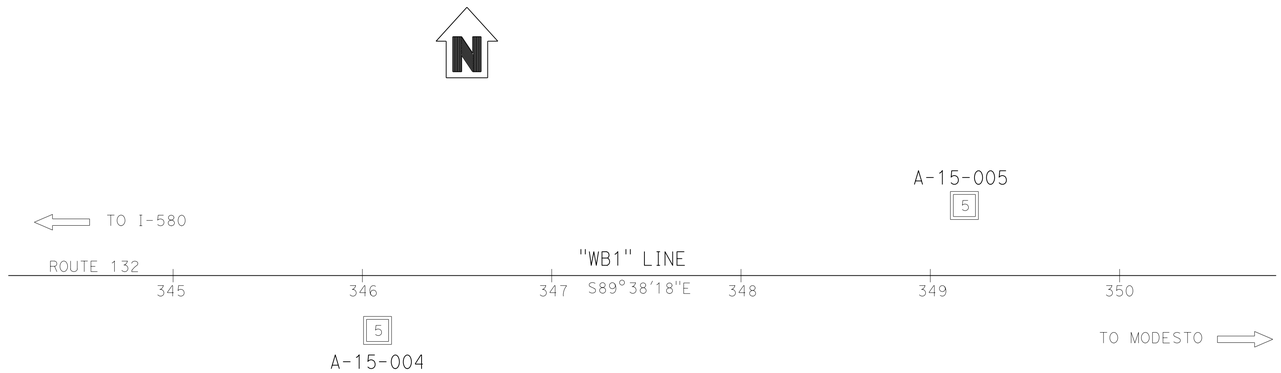
See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

BENCH MARK

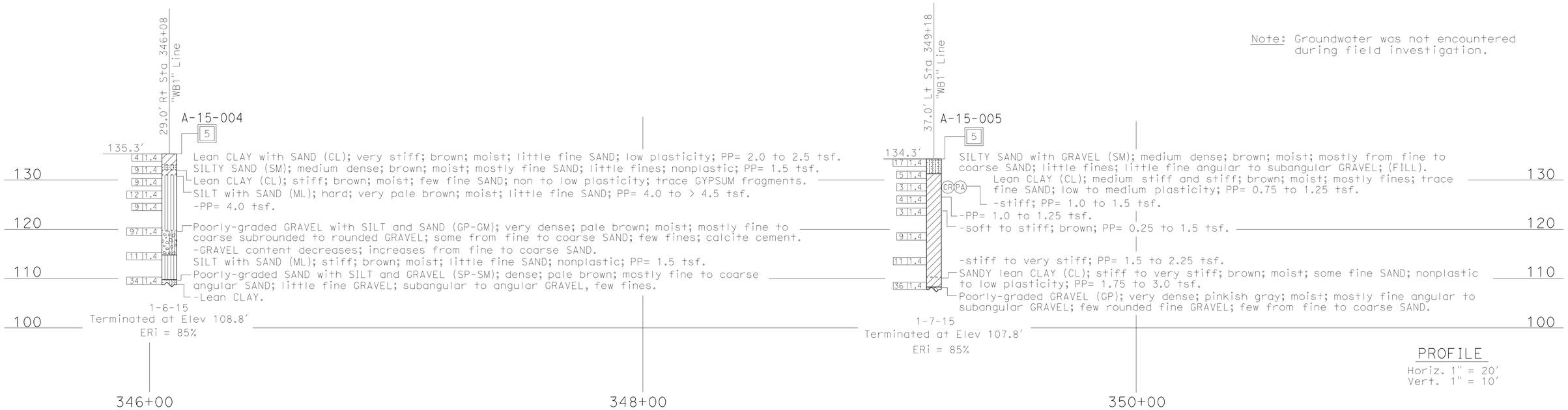
BM 292, Elev 136.31
CA Div Hyghways brass disk
in concrete
64ft Lt 291+94 ℄ Rte 132
NGVD 29 (Local)



PLAN

1" = 40'

Note: Groundwater was not encountered during field investigation.



PROFILE

Horiz. 1" = 20'
Vert. 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO.	MVDS, CMS AND CCTV INSTALLATIONS
FUNCTIONAL SUPERVISOR	DRAWN BY: F. Nguyen	FIELD INVESTIGATION BY:	DESIGN BRANCH X	POST MILE	LOG OF TEST BORINGS 4 OF 5
NAME: T. Menard	CHECKED BY: J. Martin	M. Owens (Kleinfelder)		0.4/7.1	

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3650
PROJECT NUMBER & PHASE: 10130000731 CONTRACT NO.: 10-0G8204

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
02-10-15	02-13-15	03-23-15	04-07-15	X	X

FILE => 1013000073qa004.dgn

USERNAME => s113541 DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	L0.0/7.1	283	424

Edward A. Hibbs
LICENSED LANDSCAPE ARCHITECT

12-14-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — EDWARD A. HIBBS No. 1480 — Signature — Renewal Date 02/29/16 — Date 11/10/15 — STATE OF CALIFORNIA

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EROSION CONTROL QUANTITIES

SHEET	LOCATION				DESCRIPTION	COMPOST	DRY SEED	DRILL SEED	HYDROMULCH	STRAW	REMARKS
	STATION	L+	R+	MEDIAN		SQFT	SQFT	SQYD	SQFT	SQFT	
NOT SHOWN ON PLANS	64+78.73 TO 87+13.70	X			EROSION CONTROL TYPE 1	4,175	4,175		4,175		WEST OF CALIFORNIA AQUADUCT
				X	EROSION CONTROL TYPE 2			5,384	48,456	48,456	
	68+00.00 TO 86+33.50		X		EROSION CONTROL TYPE 1	8,700	8,700		8,700		
				X	EROSION CONTROL TYPE 2			3,855	34,695	34,695	
	90+21.10 TO 199+26.45	X			EROSION CONTROL TYPE 1	56,547	56,547		56,547		EAST OF CALIFORNIA AQUADUCT TO WEST OF DELTA MENDOTA
				X	EROSION CONTROL TYPE 2			9,977	89,793	89,793	
	89+27.50 TO 199+26.55		X		EROSION CONTROL TYPE 1	144,344	144,344		144,344		
				X	EROSION CONTROL TYPE 2			17,152	154,368	154,368	
	202+01.72 TO 268+85.27	X			EROSION CONTROL TYPE 1	23,391	23,391		23,391		EAST OF DELTA MENDOTA TO WEST OF KOSTER ROAD
				X	EROSION CONTROL TYPE 2			4,630	41,670	41,670	
	202+01.14 TO 268+85.27		X		EROSION CONTROL TYPE 1	6,673	6,673		6,673		
				X	EROSION CONTROL TYPE 2			8,644	77,796	77,796	
	268+85.27 TO 350+11.74	X			EROSION CONTROL TYPE 1	41,079	41,079		41,079		EAST OF KOSTER ROAD TO WEST OF ROUTE 33
	268+85.27 TO 350+11.53		X		EROSION CONTROL TYPE 1	41,528	41,528		41,528		
	354+45.80 TO 400+38.09	X			EROSION CONTROL TYPE 1	34,789	34,789		34,789		EAST OF ROUTE 33 TO GREENWOOD ROAD
	354+45.23 TO 400+38.09		X		EROSION CONTROL TYPE 1	41,528	41,528		41,528		
					TOTAL	402,754	402,754	49,642	849,532	446,778	

SEED MIX

BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
ESCHSCHOLZIA CALIFORNICA (CALIFORNIA POPPY)	60	0.7
FESTUCA IDAHOENSIS (IDAHO FESCUE)	70	4.8
LAYIA PLATYGLOSSA (TIDYTIPS)	70	0.9
LINARIA MAROCCANA (TOADFLAX)	70	0.4
LUPINUS BICOLOR (PIGMY-LEAVED LUPINE)	70	1.7
POA SECUNDA (SCABRELLA) (PINE BLUEGRASS)	60	0.9
TRIFOLIUM HIRTUM 'HYKON' (HYKON ROSE CLOVER)	80	1.2

EROSION CONTROL TYPE 1

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	COMPOST	COMPOST	MEDIUM	270 CY/ACRE	APPLY SIMULTANEOUSLY
	DRY SEED	SEED	MIX	10.6 LB/ACRE	
STEP 2	HYDROMULCH	FIBER	WOOD	1500 LB/ACRE	
		TACKIFIER	PSYLLIUM	140 LB/ACRE	

EROSION CONTROL TYPE 2

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	DRILL SEED	SEED	MIX	10.6 LB/ACRE
STEP 2	STRAW	STRAW	WHEAT	2 TONS/ACRE
STEP 3	HYDROMULCH	FIBER	WOOD	1500 LB/ACRE
		TACKIFIER	PSYLLIUM	140 LB/ACRE

EROSION CONTROL LEGEND AND QUANTITIES
ECL-1

REVISED BY: ED HIBBS — DATE REVISED: 00/00/00
CALCULATED-DESIGNED BY: KEVIN GALLO — CHECKED BY: 00/00/00
SENIOR LANDSCAPE ARCHITECT: BRAD COLE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

LAST REVISION 11-10-15 | DATE PLOTTED => 25-MAR-2016 | TIME PLOTTED => 11:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	284	424

Paul Matos 12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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

NOTES:

1. ALL PULL BOXES MUST BE No. 5(T)(E) UNLESS OTHERWISE NOTED.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND: (FOR THIS SHEET ONLY)

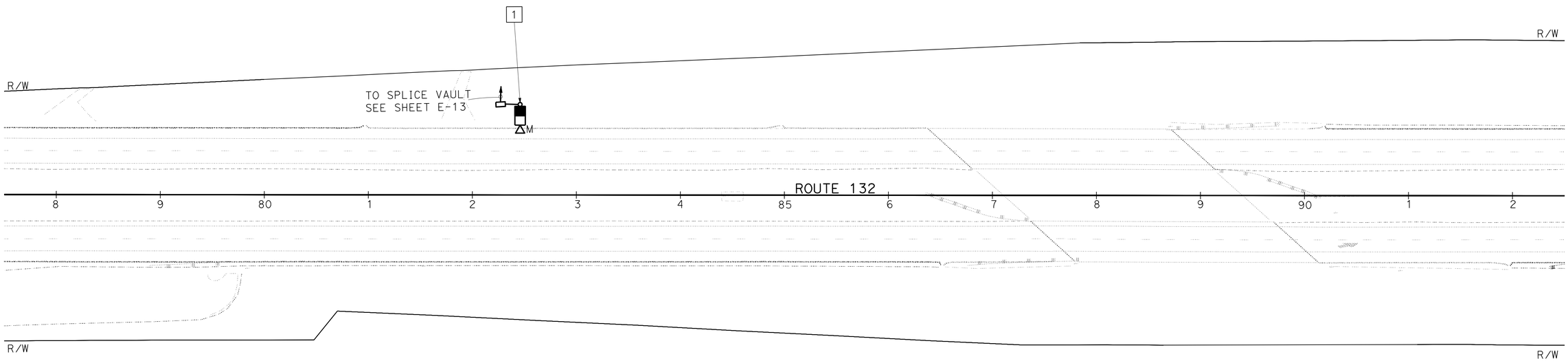
[1] VDS 35 POLE WITH MVDS. SEE DETAILS ON SHEET E-32.

ABBREVIATIONS:

ATC	AUTOMATED TRAFFIC COUNTER
STC	SCREENED TRANSMISSION CABLE
DFM	DEPARTMENT FURNISHED MATERIAL
ACC	ANTENNA COAXIAL CABLE
AFC	ANTENNA FEEDING CABLE
VCS	VEHICLE CLASSIFICATION STATION

SYMBOL:

[V] SPLICE VAULT, SEE DETAILS ON SHEET E-37



APPROVED FOR ELECTRICAL WORK ONLY

MICROWAVE VEHICLE DETECTION SYSTEM

SCALE: 1"=50'

E-1

REVISED BY	DATE REVISED
GSB	09-21-15

CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	285	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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

LEGEND: (FOR THIS SHEET ONLY)

1 120/240 V, 1Ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

Ctid No. 10291320001862T

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
30	240	2	CHANGEABLE MESSAGE SIGN	YES	-
30	120	1	CMS/CCTV CABINET	YES	-
40	240	2	SPARE	YES	-
15	120	1	SPARE	YES	-
-	-	6	SPACE	-	-

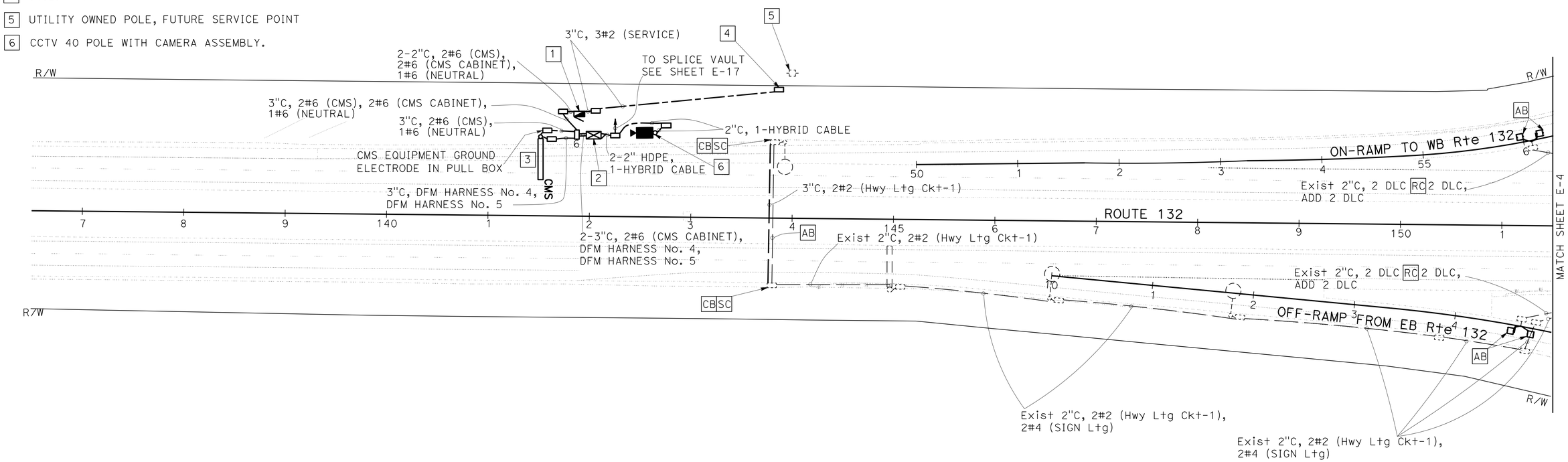
2 DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER ASSEMBLY FOR CMS. INSTALL VIDEO ENCODER, CAMERA CONTROL UNIT, AND WIRELESS MODEM FOR CCTV

3 DEPARTMENT-FURNISHED MODEL 500 LED CMS. SEE LAYOUT PLANS FOR EXACT LOCATION.

4 UTILITY COMPANY APPROVED PULL BOX

5 UTILITY OWNED POLE, FUTURE SERVICE POINT

6 CCTV 40 POLE WITH CAMERA ASSEMBLY.



APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL SYSTEMS
E-2

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	286	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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

NOTES:

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

LEGEND: (FOR THIS SHEET ONLY)

1 Exist 120/240 V, 1ø, 3-WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

Ctid No. 10291320002410L

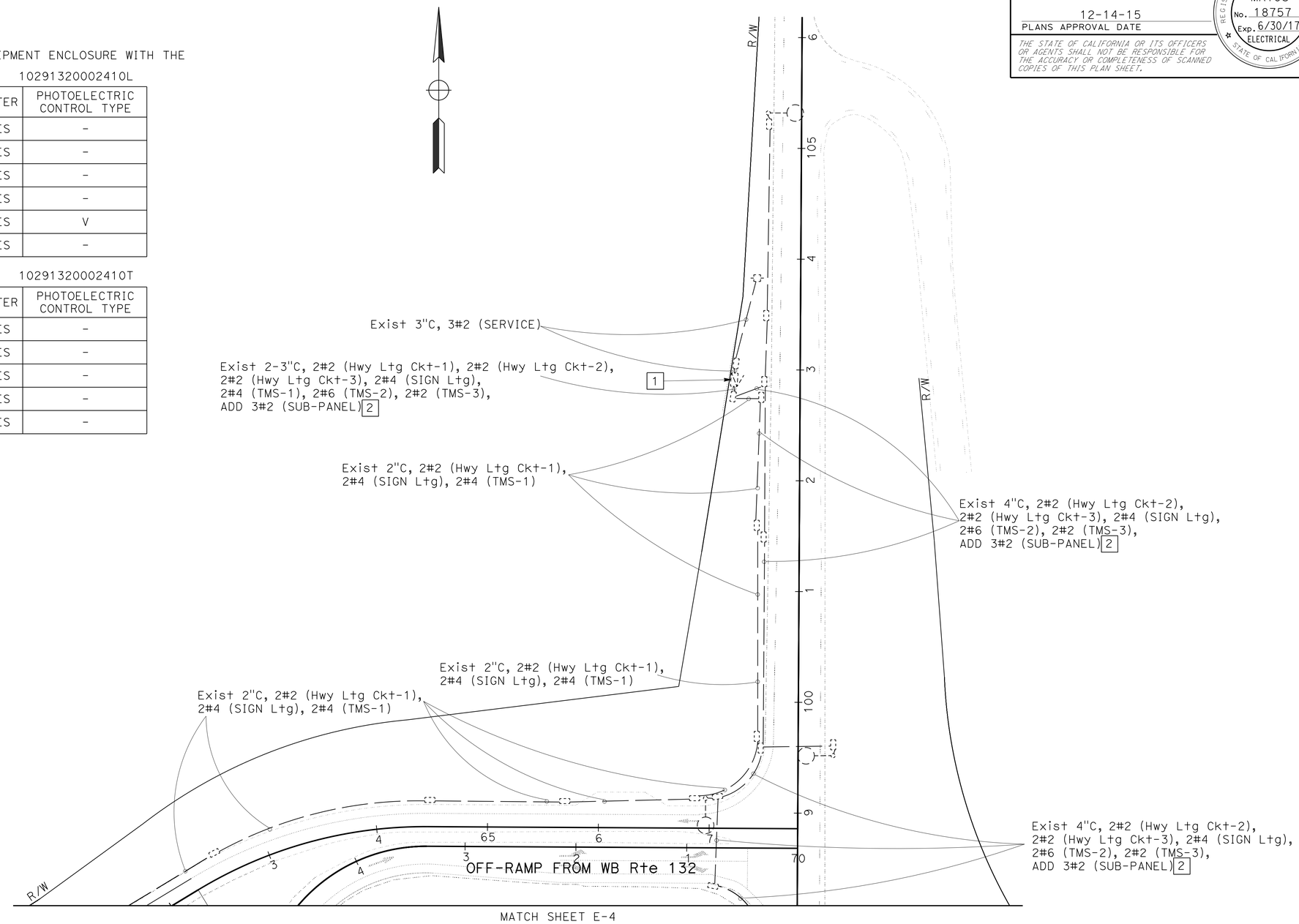
AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
20	240	2	HIGHWAY LIGHTING CKT-1	YES	-
20	240	2	HIGHWAY LIGHTING CKT-2	YES	-
20	240	2	HIGHWAY LIGHTING CKT-3	YES	-
15	120	1	LIGHTING CONTROL	YES	V
15	240	2	SIGN LIGHTING	YES	-

Ctid No. 10291320002410T

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
15	120	1	TMS-1	YES	-
15	120	1	TMS-2	YES	-
15	120	1	TMS-3	YES	-
*70	240	2	SUB PANEL	YES	-

* ADD CB AND NAMEPLATE

2 USE COPPER CONDUCTORS



APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL SYSTEMS
SCALE: 1"=50'
E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

GURVINDERJIT S. BAINS | PAUL MATOS | REVISED BY | DATE REVISED | GSB | 09-21-15
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | ALI BAKHDOUD

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	287	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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NOTES:

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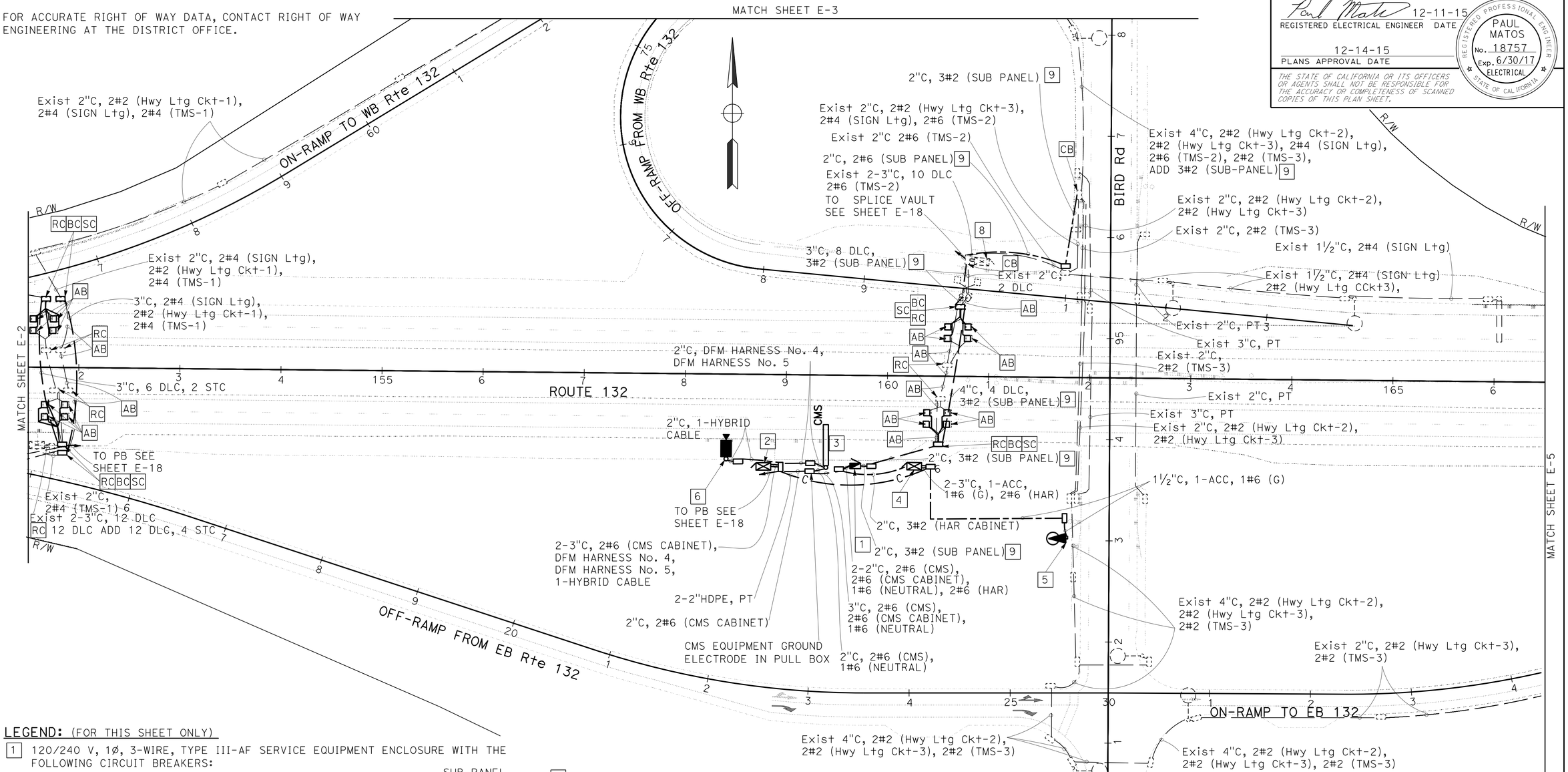

LEGEND: (FOR THIS SHEET ONLY)

1. 120/240 V, 1Ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

SUB-PANEL

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
60	240	2	MAIN BREAKER	-	-
30	120	1	CMS CABINET	-	-
30	240	2	CMS	-	-
30	120	1	HAR CABINET	-	-
40	240	2	SPARE	-	-
15	120	1	SPARE	-	-
-	-	6	SPACE	-	-

2. DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER ASSEMBLY FOR CMS. INSTALL VIDEO ENCODER, CAMERA CONTROL UNIT, AND WIRELESS MODEM FOR CCTV
3. DEPARTMENT-FURNISHED MODEL 500 LED CMS.
4. MODEL 334L CABINET WITH HAR EQUIPMENT AND WIRELESS MODEM.
5. HIGH BAND ANTENNA ON WOOD POLE. SEE DETAILS ON SHEET E-35.
6. CCTV 40 POLE WITH CAMERA ASSEMBLY.
7. Exist MODEL 334L CABINET FOR TMS. ADD ATC AND WIRELESS MODEM.
8. Exist MODEL 334L CABINET FOR TMS.
9. USE COPPER CONDUCTORS

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL SYSTEMS
E-4

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	288	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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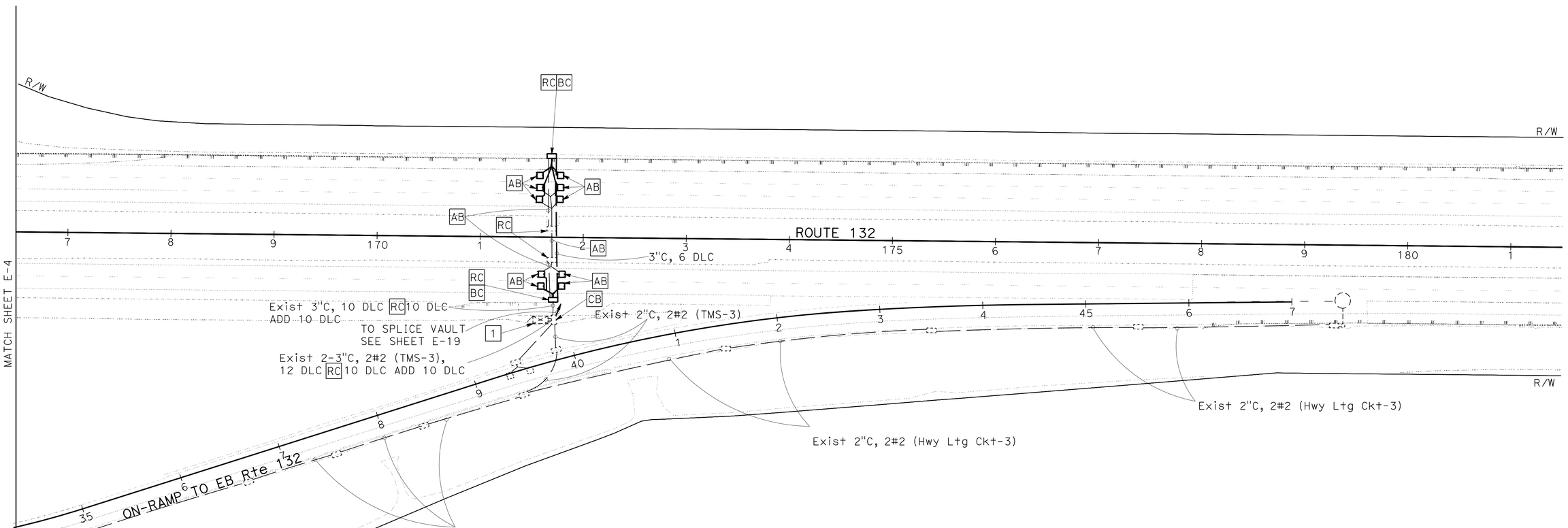
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND: (FOR THIS SHEET ONLY)

1 Exist MODEL 334L CABINET FOR TMS.



APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL SYSTEMS E-5

SCALE: 1"=50'

GSB	09-21-15	REVISED BY	DATE REVISED
GURVINDERJIT S. BAINS	PAUL MATOS	CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ALI BAKHDOUD		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

LAST REVISION 09-21-15 DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	289	424

12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

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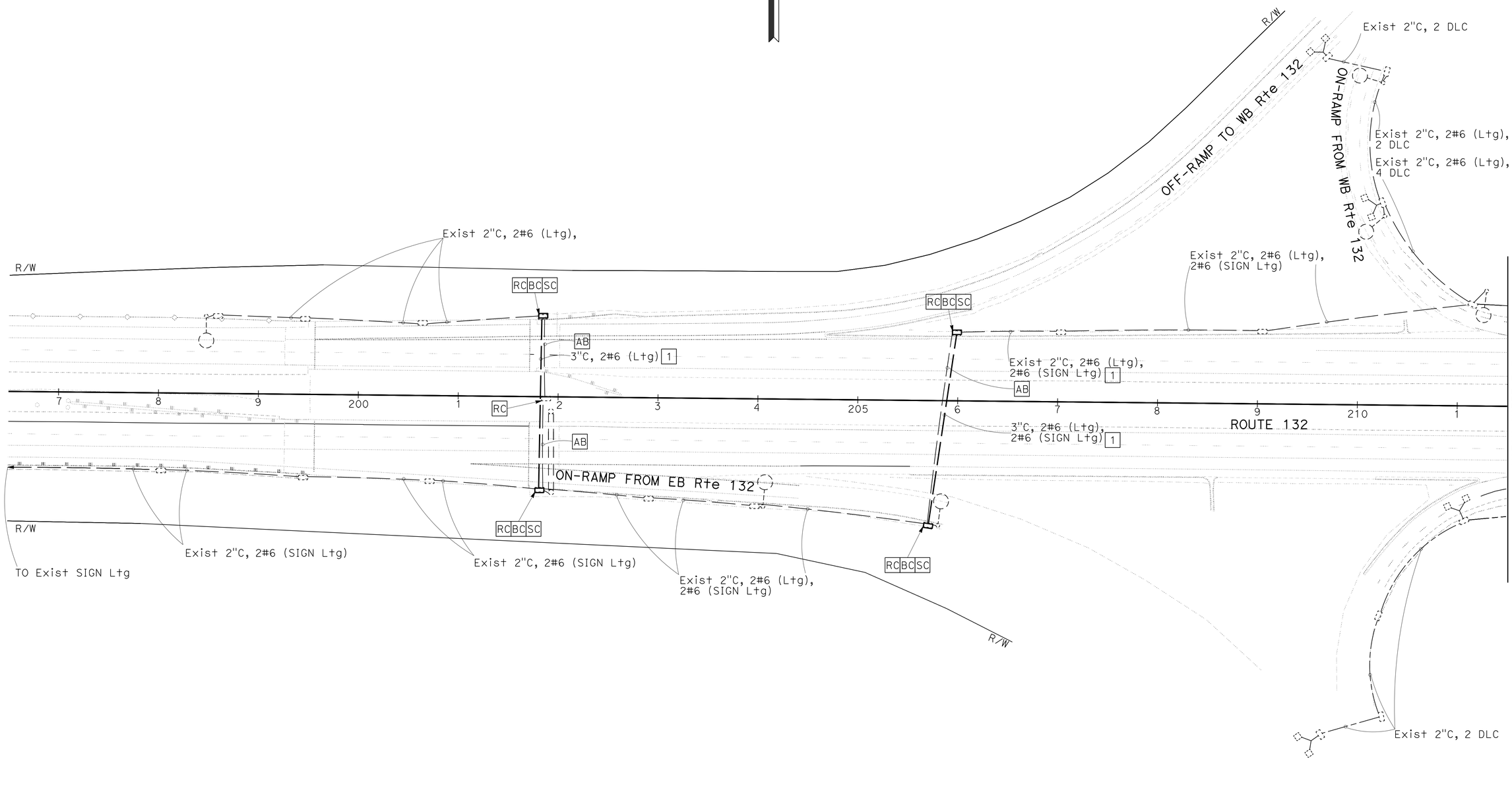
LEGEND: (FOR THIS SHEET ONLY)

1 USE COPPER CONDUCTORS



APPROVED FOR ELECTRICAL WORK ONLY

MODIFY LIGHTING
E-6

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	290	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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

LEGEND: (FOR THIS SHEET ONLY)

1 Exist 240/480 V, 1Ø, 3-WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

Ctid No. 10291320003380L

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PEC TYPE
100	480	2	MAIN BREAKER	YES	-
30	480	2	LIGHTING	YES	-
15	240	1	LTG CONTROL	YES	V
20	480	2	SIGN LTG	YES	-
20	480	2	SPARE	-	-

Ctid No. 10291320003380T

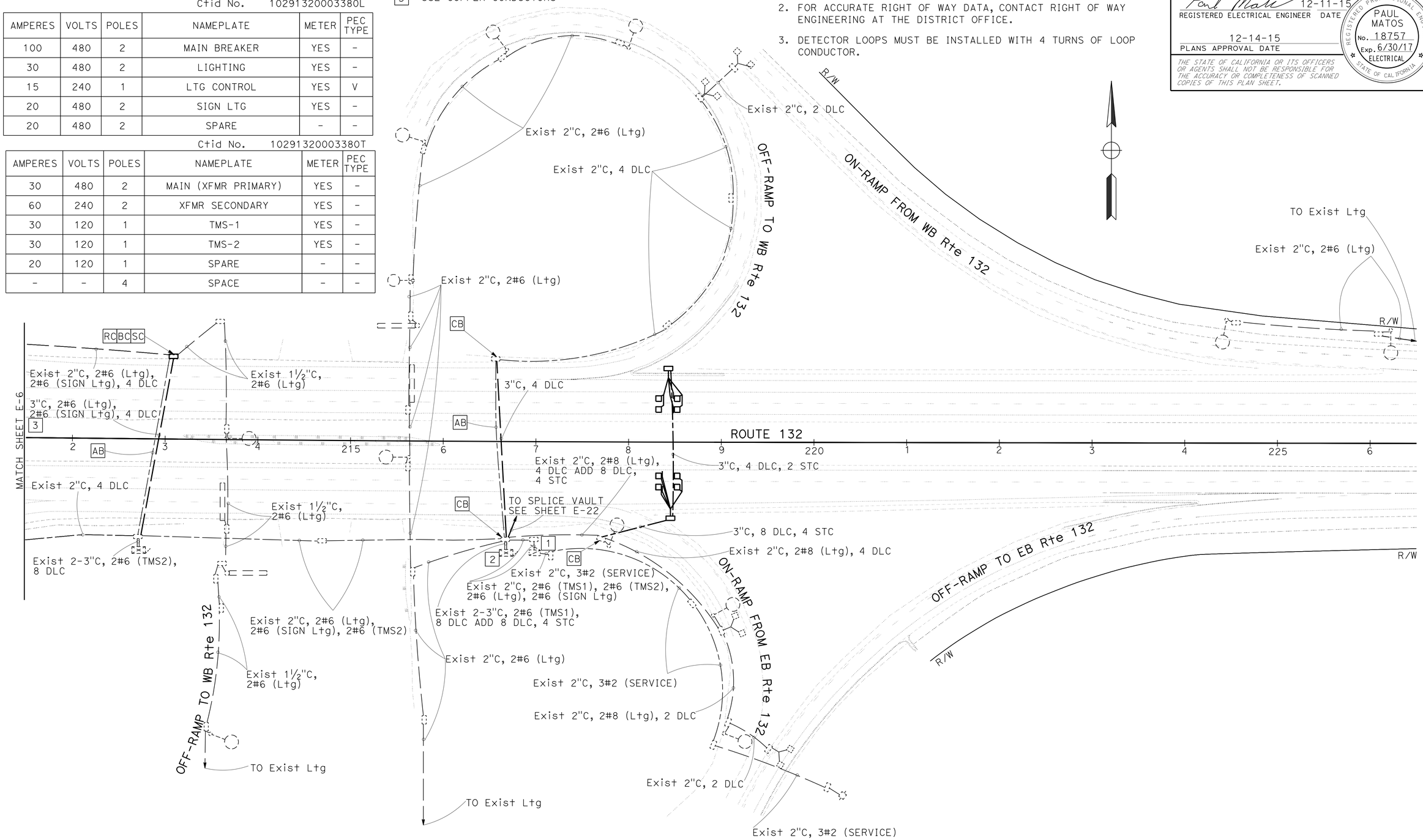
AMPERES	VOLTS	POLES	NAMEPLATE	METER	PEC TYPE
30	480	2	MAIN (XFMR PRIMARY)	YES	-
60	240	2	XFMR SECONDARY	YES	-
30	120	1	TMS-1	YES	-
30	120	1	TMS-2	YES	-
20	120	1	SPARE	-	-
-	-	4	SPACE	-	-

2 Exist MODEL 334L CABINET FOR TMS. ADD ATC AND WIRELESS MODEM.

3 USE COPPER CONDUCTORS

NOTES:

1. ALL PULL BOXES MUST BE No. 5(T)(E) UNLESS OTHERWISE NOTED.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. DETECTOR LOOPS MUST BE INSTALLED WITH 4 TURNS OF LOOP CONDUCTOR.



APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL SYSTEMS
E-7

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	291	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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LEGEND: (FOR THIS SHEET ONLY)

1 120/240 V, 1ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

Ctid No. 10291320004807T

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
30	240	2	CHANGEABLE MESSEGE SIGN WB	YES	-
30	120	1	CMS/CCTV CABINET WB	YES	-
30	240	2	CHANGEABLE MESSEGE SIGN EB	YES	-
30	120	1	CMS/CCTV CABINET EB	YES	-
40	240	2	SPARE	YES	-
15	120	1	SPACE	YES	-
-	-	6	SPACE	-	-

2 DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER ASSEMBLY FOR CMS. INSTALL VIDEO ENCODER, CAMERA CONTROL UNIT, AND WIRELESS MODEM FOR CCTV

3 DEPARTMENT-FURNISHED MODEL 500 LED CMS. SEE LAYOUT PLANS FOR EXACT LOCATION.

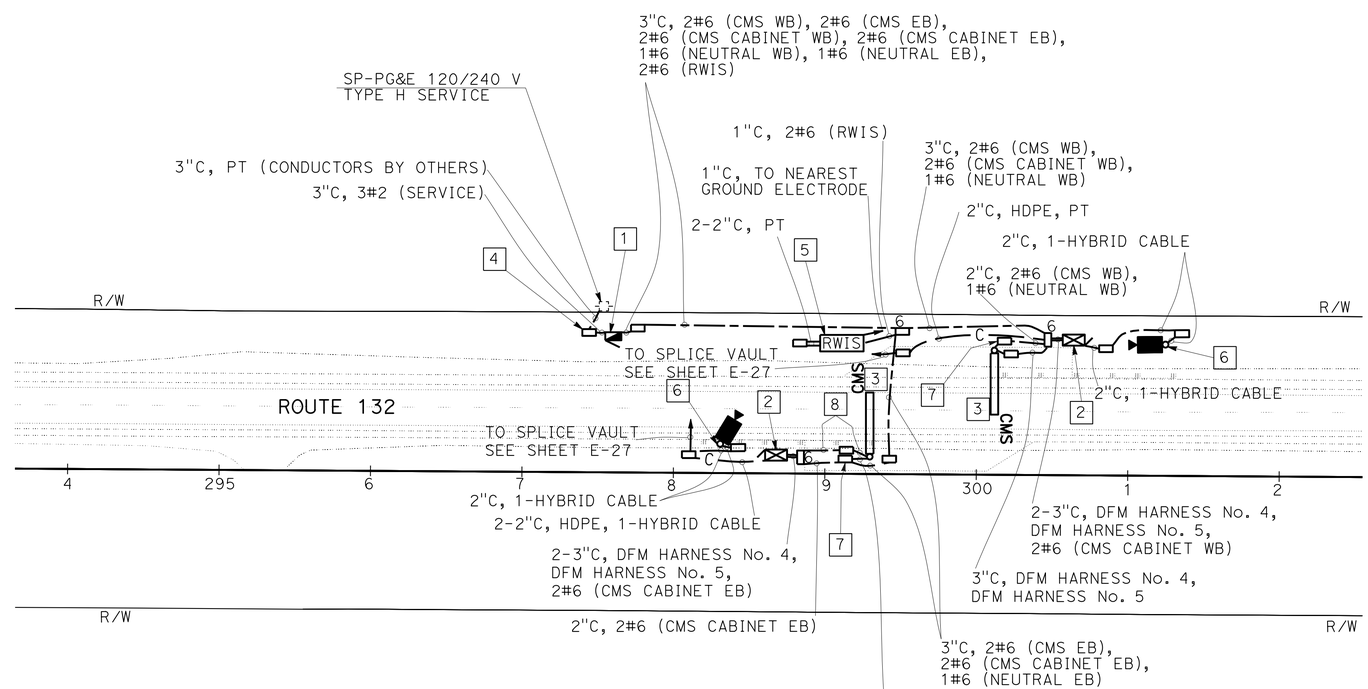
4 ULITILY COMPANY APPROVED PULL BOX

5 RWIS WITH TOWER. SEE SHEET E-36 FOR DETAILS.

6 CCTV 40 POLE WITH CAMERA ASSEMBLY.

7 CMS EQUIPMENT GROUND ELECTRODE IN PULL BOX.

8 3"C, DFM HARNESS No. 4, DFM HARNESS No. 5



APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL SYSTEMS
E-8

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15 DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	292	424

Paul Matos 12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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LEGEND: (FOR THIS SHEET ONLY)

1 Exist 120/240 V, 1ø, 3-WIRE, TYPE III-CF SUB-PANEL EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

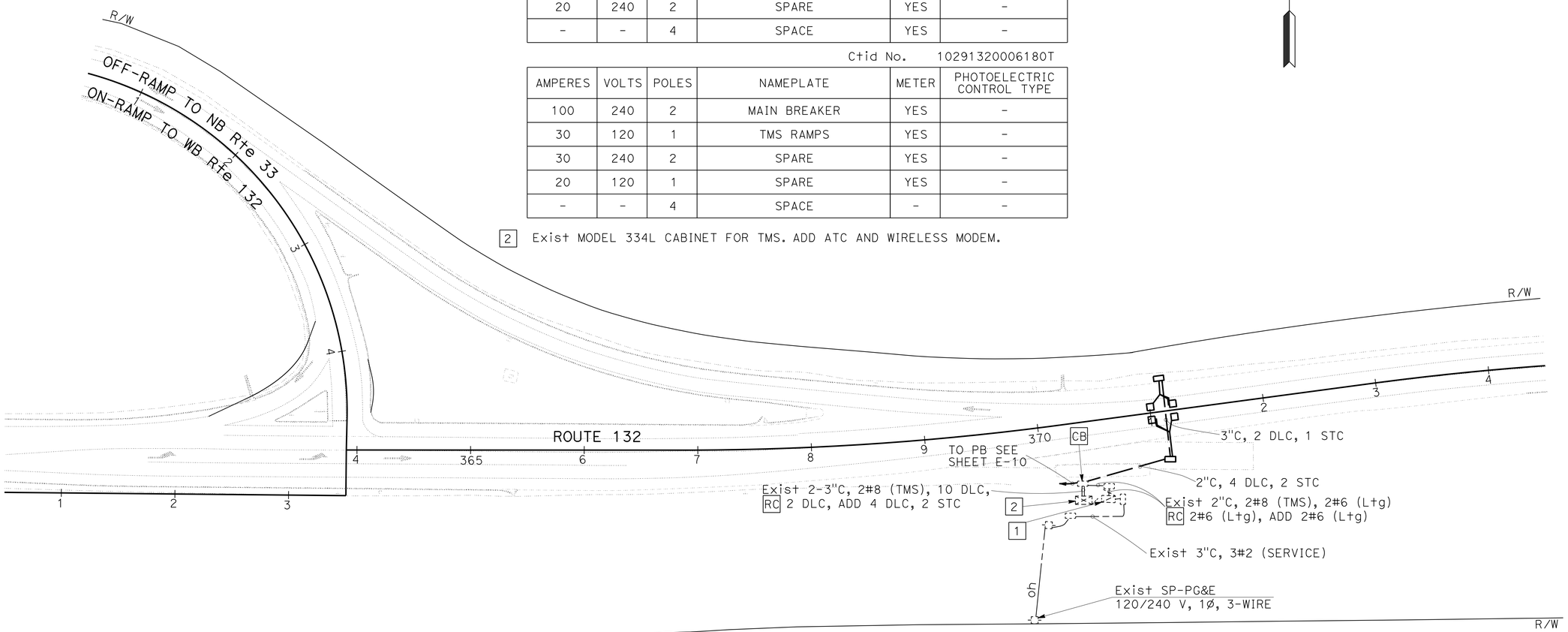
Ctid No. 10291320006180L

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
30	240	2	LIGHTING	YES	-
15	120	1	LTG CONTROL	YES	V
20	240	2	SPARE	YES	-
-	-	4	SPACE	YES	-

Ctid No. 10291320006180T

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
30	120	1	TMS RAMPS	YES	-
30	240	2	SPARE	YES	-
20	120	1	SPARE	YES	-
-	-	4	SPACE	-	-

2 Exist MODEL 334L CABINET FOR TMS. ADD ATC AND WIRELESS MODEM.



APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL SYSTEMS
E-9

SCALE: 1"=50'

GURVINDERJIT S. BAINS	GSB	09-21-15	
PAUL MATOS	REVISED BY	DATE REVISED	
CALCULATED-DESIGNED BY			
CHECKED BY			
FUNCTIONAL SUPERVISOR			
ALI BAKHDOUD			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	293	424

12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

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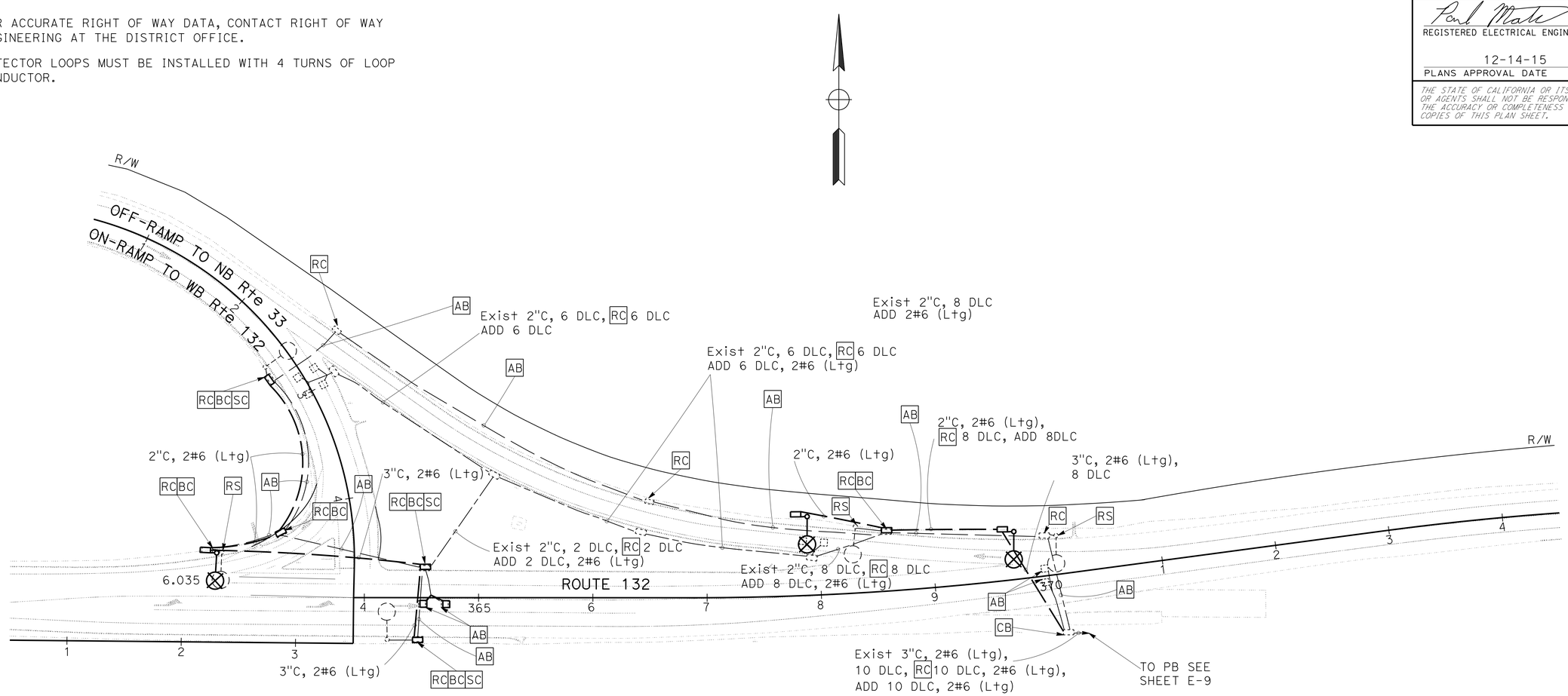

APPROVED FOR ELECTRICAL WORK ONLY

SCALE: 1"=50'

MODIFY LIGHTING
E-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	294	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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LEGEND: (FOR THIS SHEET ONLY)

1 120/240 V, 1ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

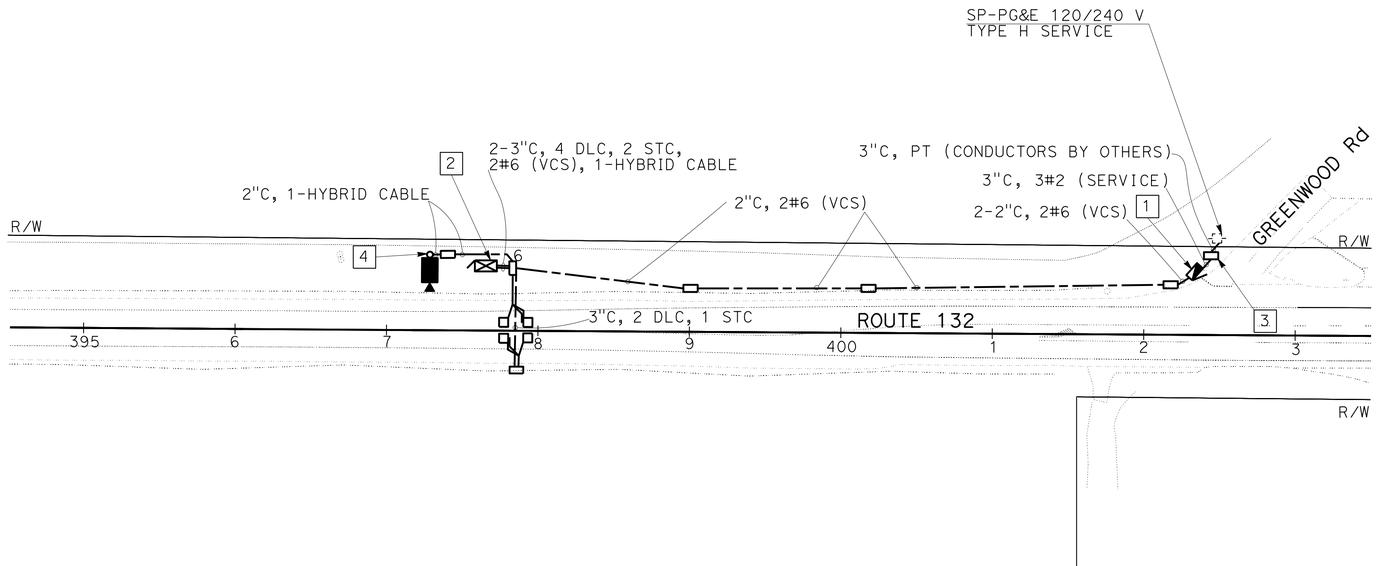
Ctid No. 10291320006795T

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	-
30	120	1	VCS/CCTV CABINET	YES	-
40	240	2	SPARE	YES	-
15	120	1	SPARE	YES	-
-	-	6	SPACE	-	-

2 MODEL 334L CABINET WITH DEPARTMENT-FURNISHED 2070E CONTROLLER UNIT AND ATC FOR VCS. INSTALL VIDEO ENCODER, CAMERA CONTROL UNIT, AND WIRELESS MODEM FOR CCTV.

3 UTILITY COMPANY APPROVED PULL BOX.

4 CCTV 40 POLE WITH CAMERA ASSEMBLY.



APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL SYSTEMS
E-11

SCALE: 1"=50'

REVISED BY	DATE REVISED
GSB	09-21-15

GURVINDERJIT S. BAINS
PAUL MATOS
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

LAST REVISION 09-21-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	295	424

Paul Matos 12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

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

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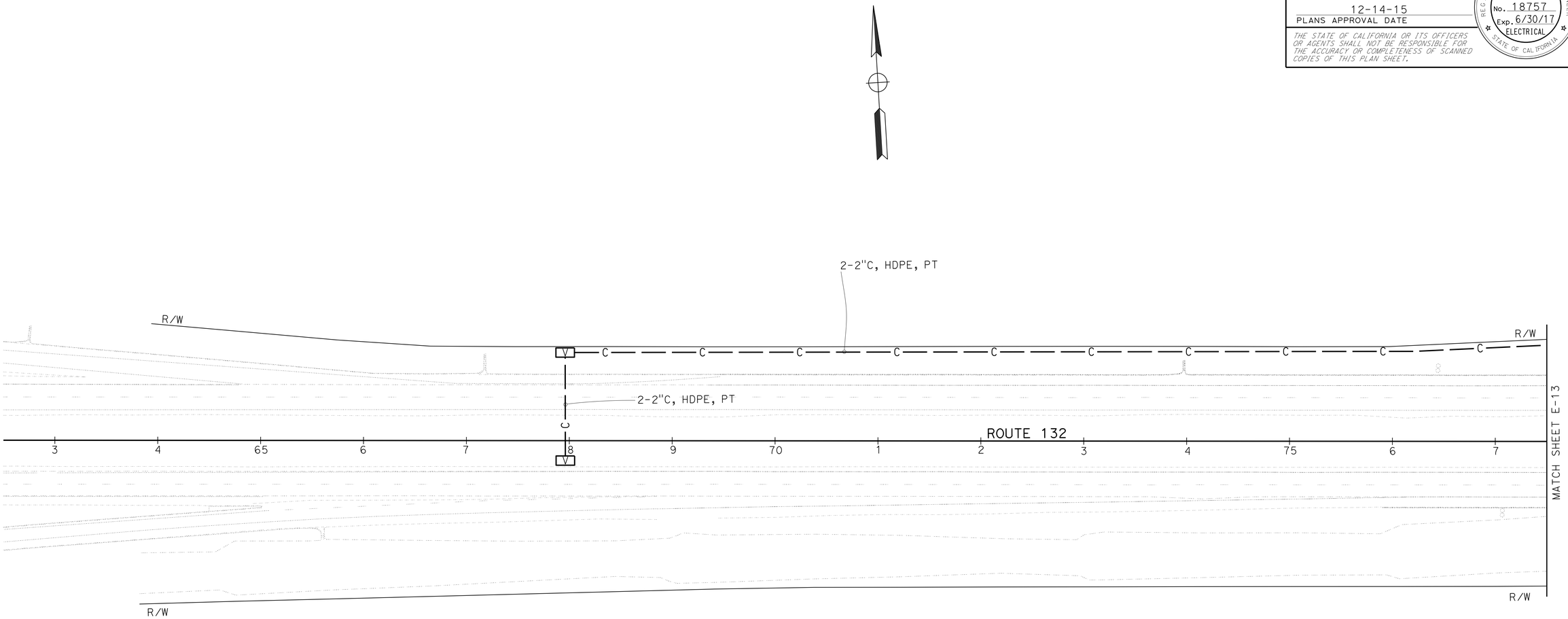

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-12

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 08-31-15

LAST REVISION 08-31-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	296	424

Paul Matos 12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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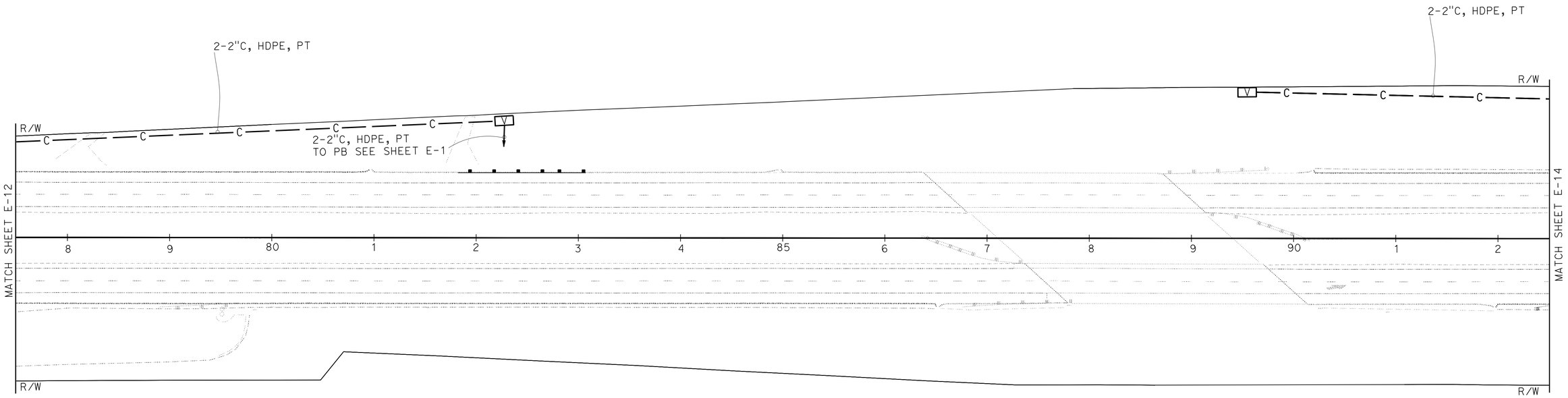


APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-13

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	297	424

Paul Matos 12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

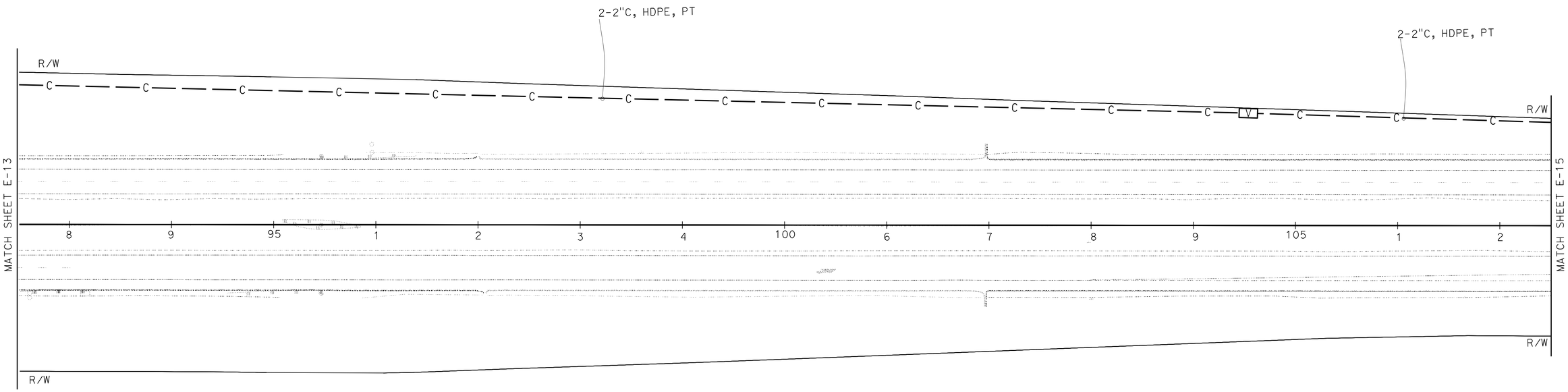
12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

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

NOTES:

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



APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-14

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:30

BORDER LAST REVISED 7/2/2010 | USERNAME => s113541 | DGN FILE => 1013000073ua014.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1515 | PROJECT NUMBER & PHASE 10130000731

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	298	424

Paul Matos 12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

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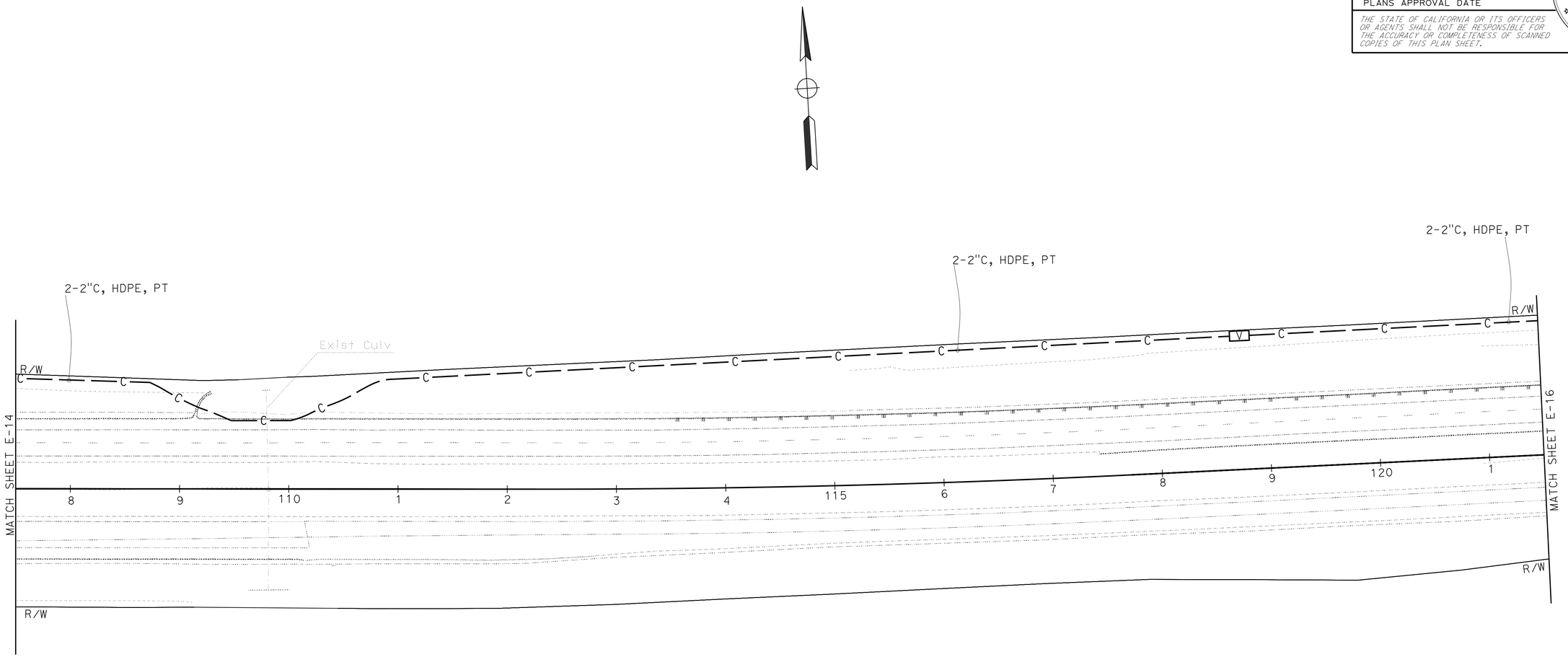

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-15

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	299	424

Paul Matos 12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

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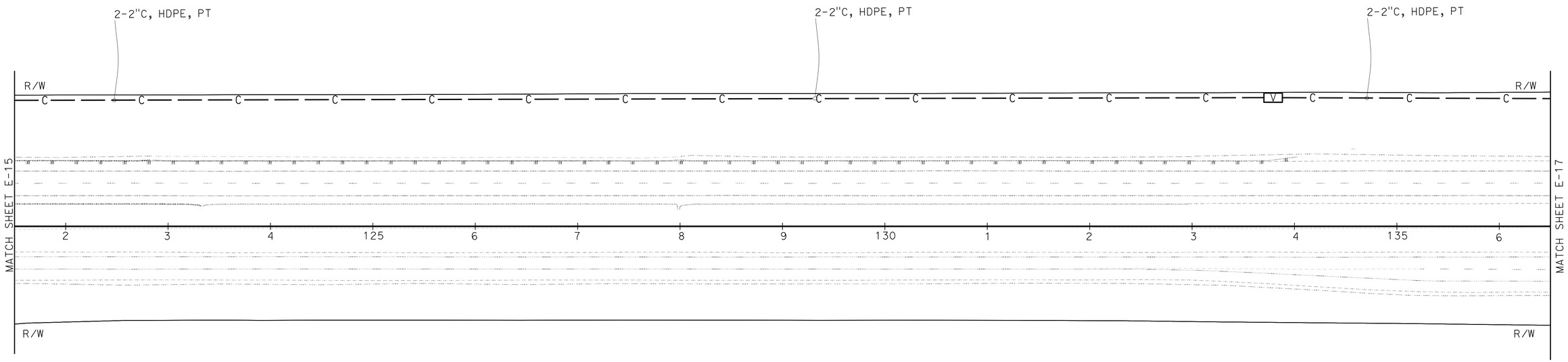

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-16

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	300	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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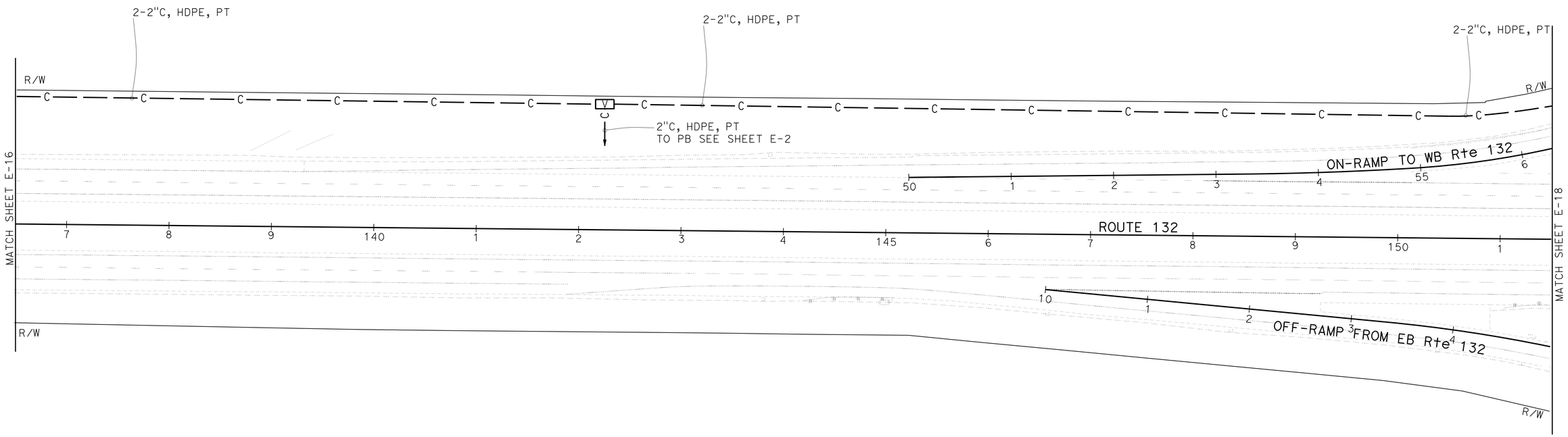

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-17

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	301	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

PLANS APPROVAL DATE 12-14-15

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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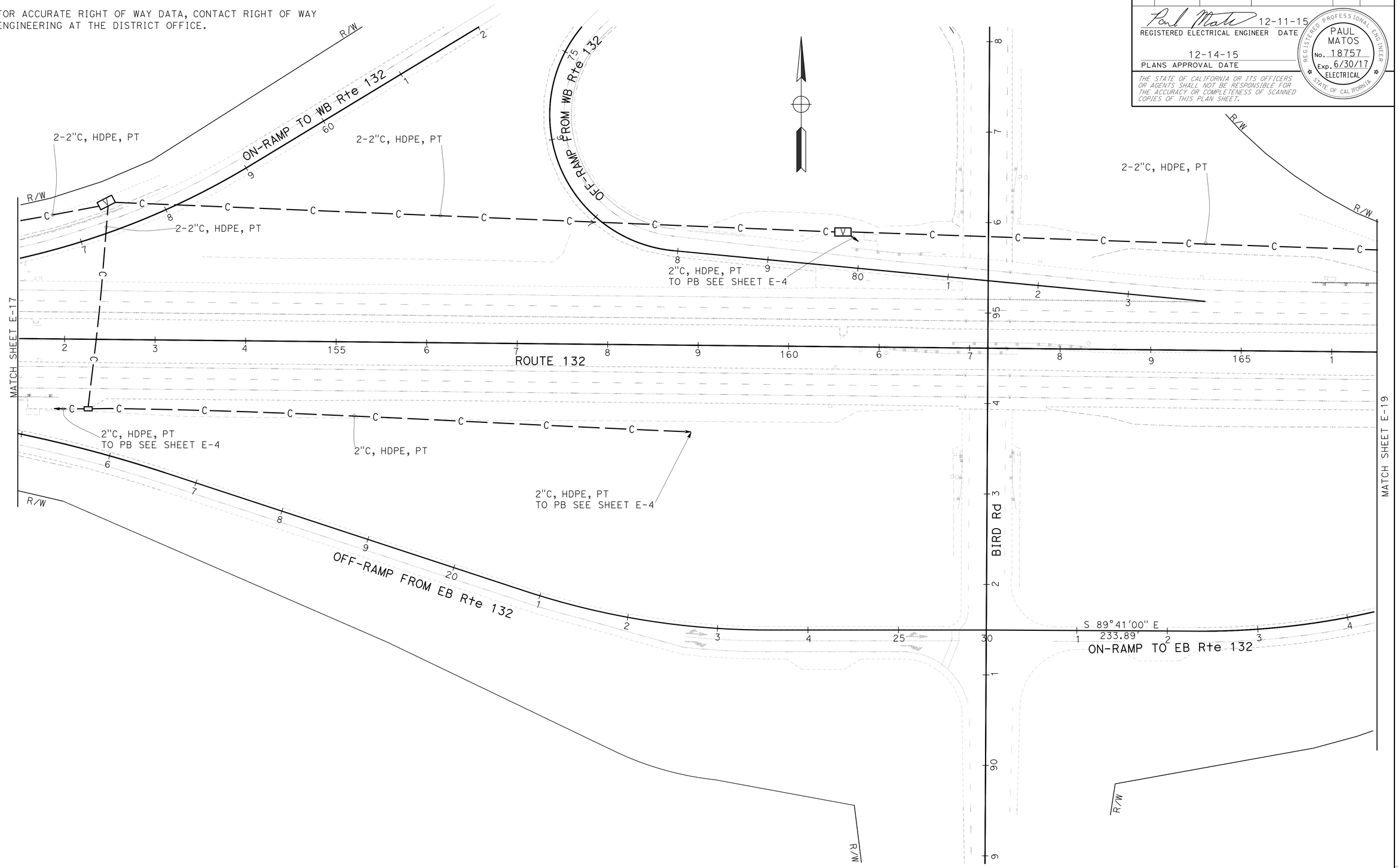

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT

SCALE: 1"=50'

E-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS

CHECKED BY: PAUL MATOS

REVISED BY: GSB

DATE REVISED: 09-21-15

LAST REVISION DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:30

BORDER LAST REVISED 7/2/2010

USERNAME => s113541
DGN FILE => 1013000073ua018.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1515

PROJECT NUMBER & PHASE 10130000731

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	302	424

Paul Matos 12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

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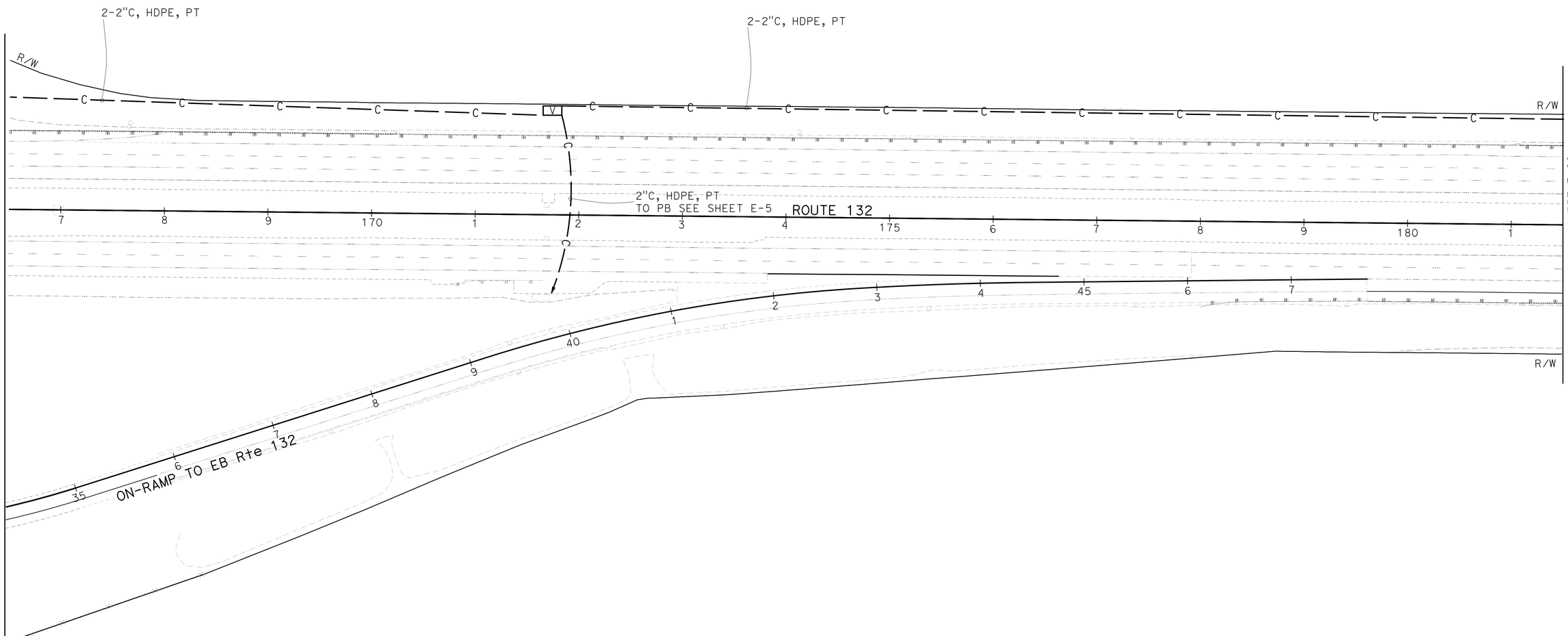

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-19

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	303	424

Paul Matos 12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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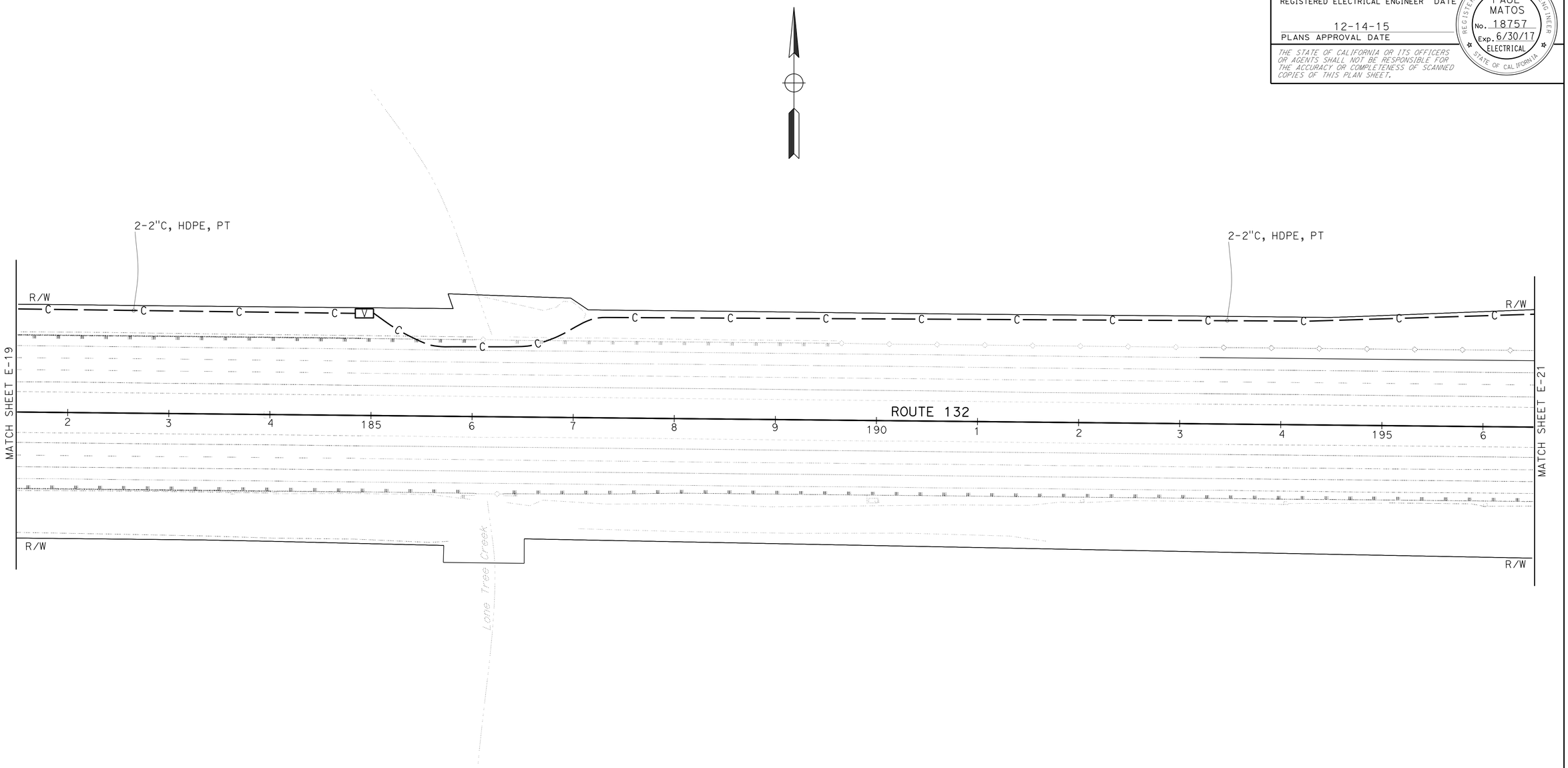

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-20

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	304	424

12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

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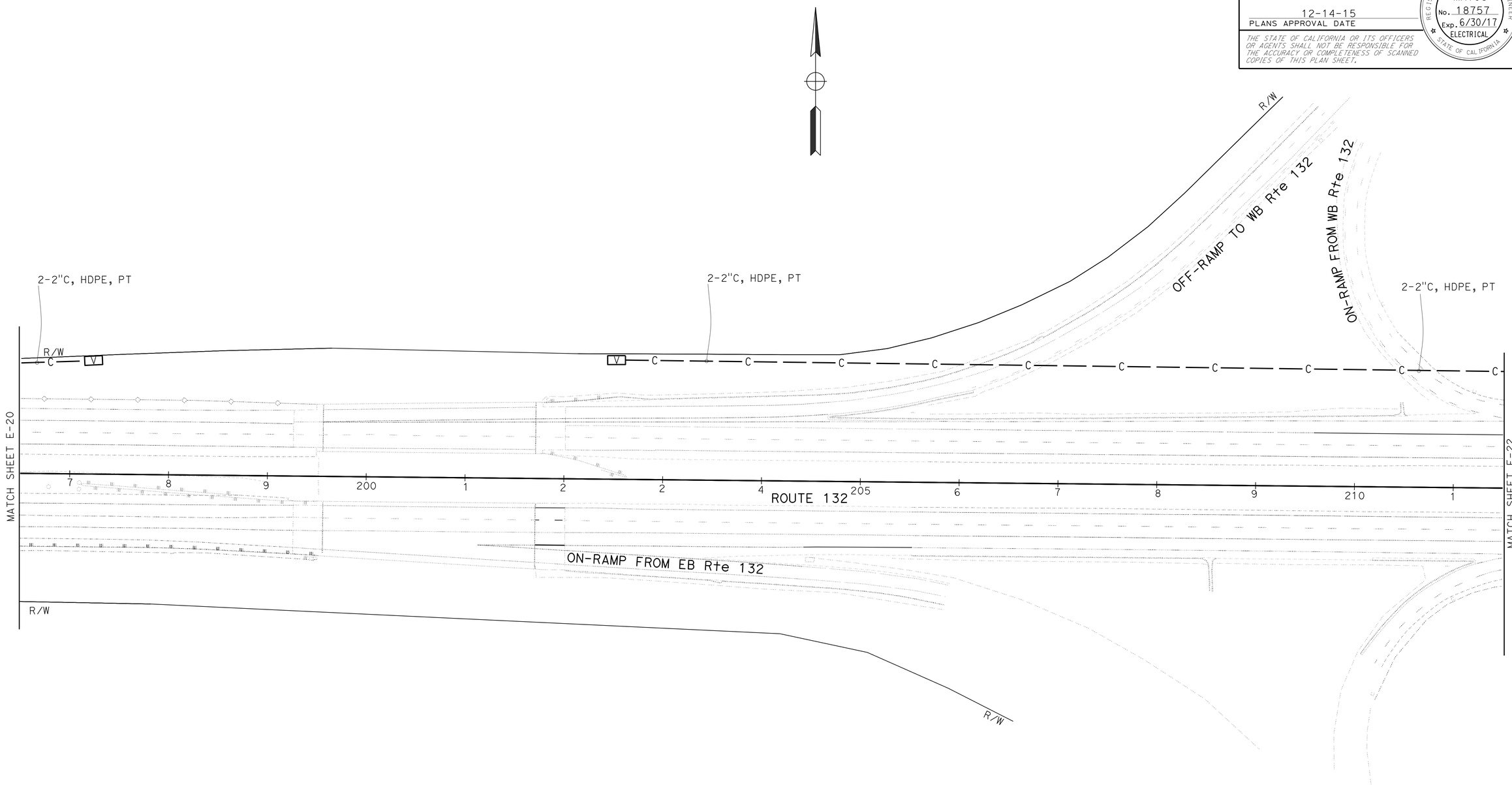

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-21

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans 06-ELECTRICAL DESIGN
FUNCTIONAL SUPERVISOR	ALI BAKHOUD
CALCULATED-DESIGNED BY	GURVINDERJIT S. BAINS
CHECKED BY	PAUL MATOS
REVISED BY	GSB
DATE REVISED	09-21-15

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	305	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

PLANS APPROVAL DATE 12-14-15

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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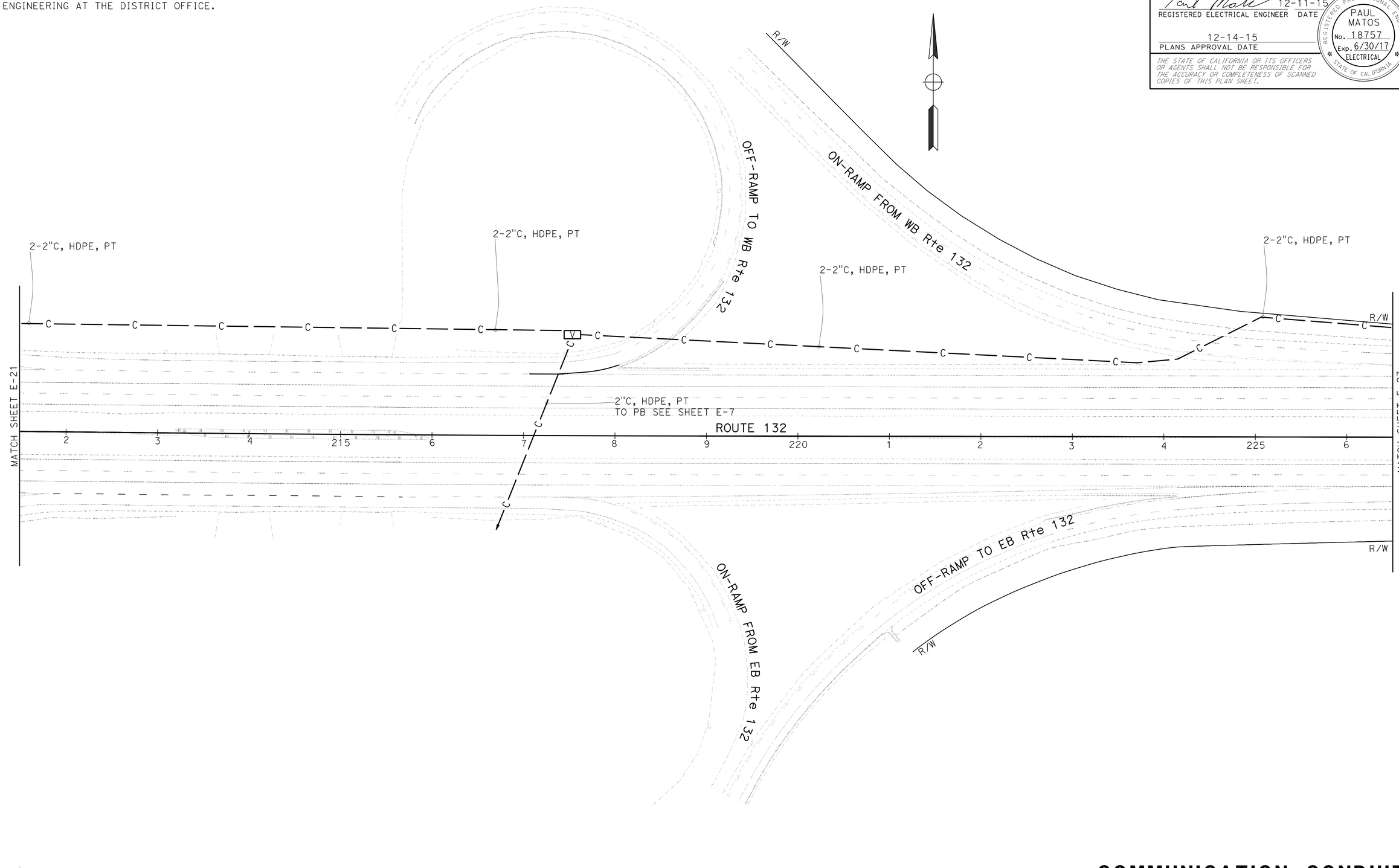

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-22

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS

CHECKED BY: PAUL MATOS

REVISED BY: GSB

DATE REVISED: 09-21-15

LAST REVISION 09-21-15 DATE PLOTTED => 11-JAN-2016 TIME PLOTTED => 13:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	306	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

PLANS APPROVAL DATE 12-14-15

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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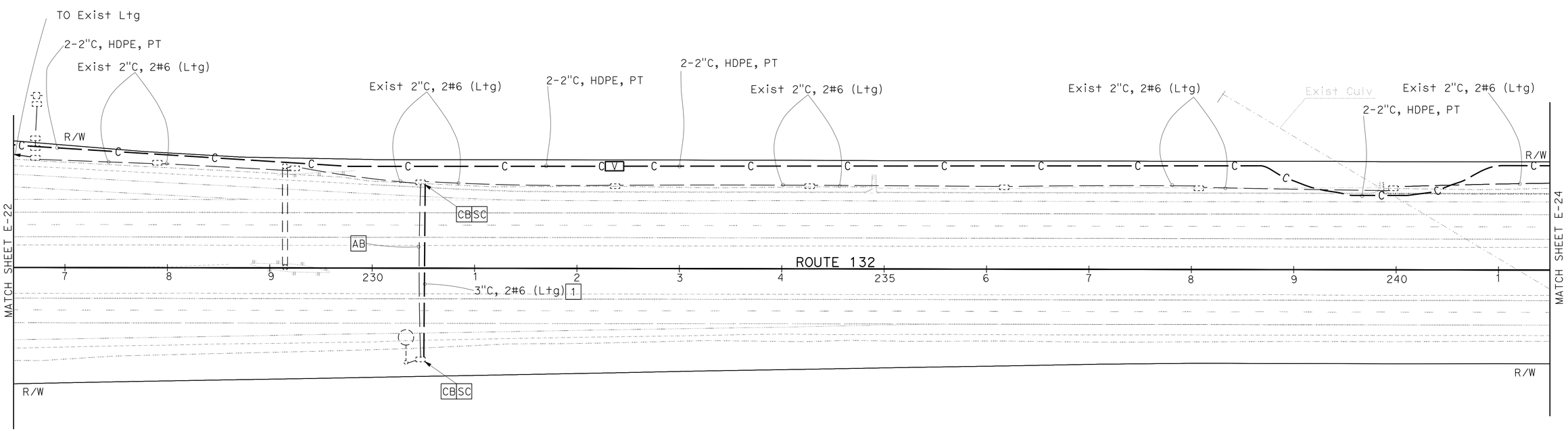
NOTES:

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

LEGEND: (FOR THIS SHEET ONLY)

1 USE COPPER CONDUCTORS



APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT

SCALE: 1"=50'

E-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS

CHECKED BY: PAUL MATOS

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Paul Matos 12-11-15
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12-14-15
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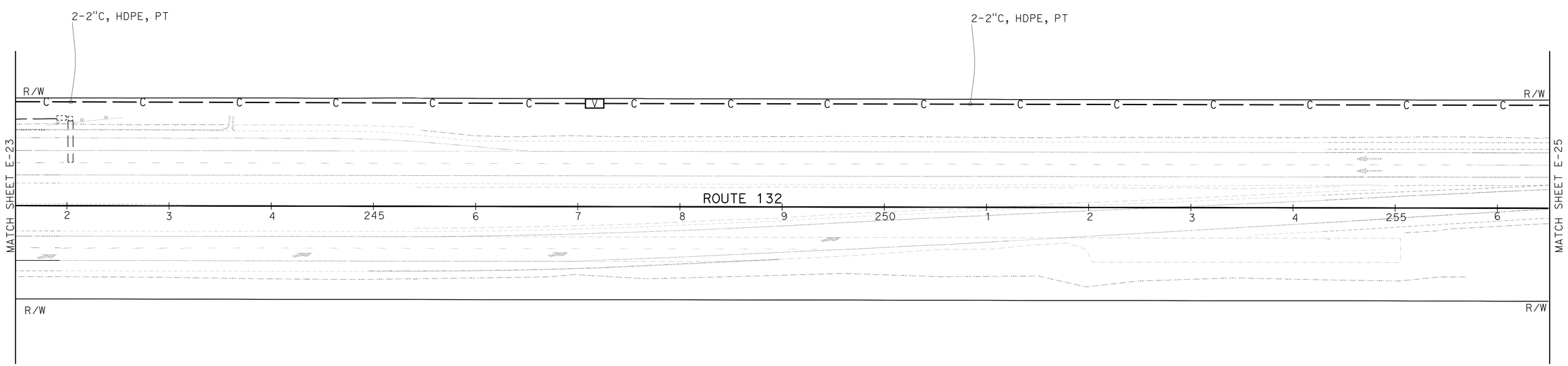

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-24

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	308	424

REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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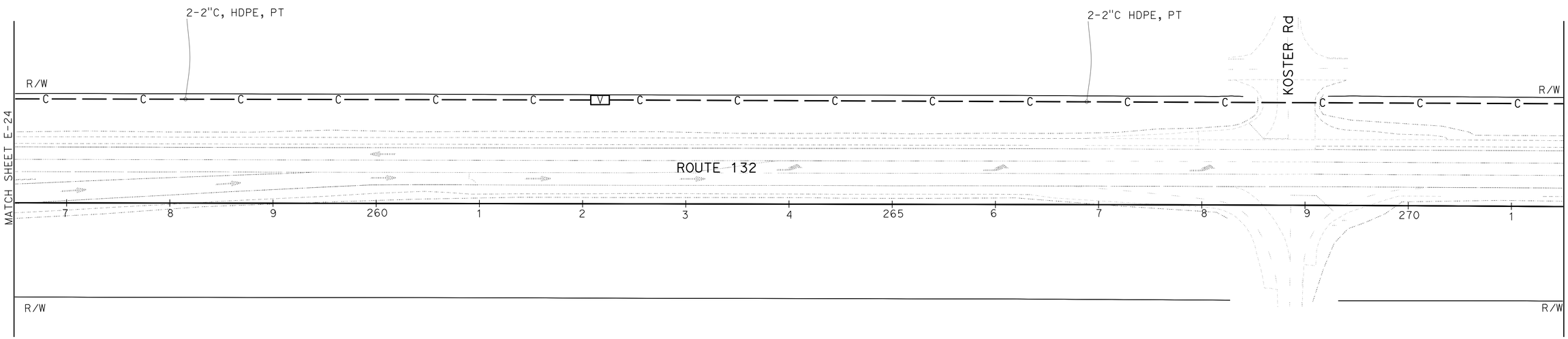

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-25

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans 06-ELECTRICAL DESIGN
FUNCTIONAL SUPERVISOR	ALI BAKHDOUD
CALCULATED-DESIGNED BY	GURVINDERJIT S. BAINS
CHECKED BY	PAUL MATOS
REVISED BY	GSB
DATE REVISED	09-21-15

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED ELECTRICAL ENGINEER 12-11-15 DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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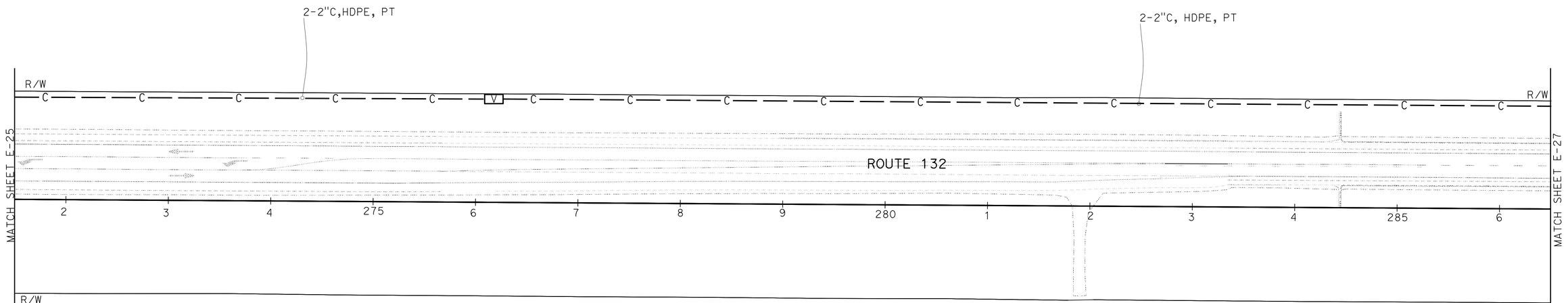

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-26

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:31

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Paul Matos 12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

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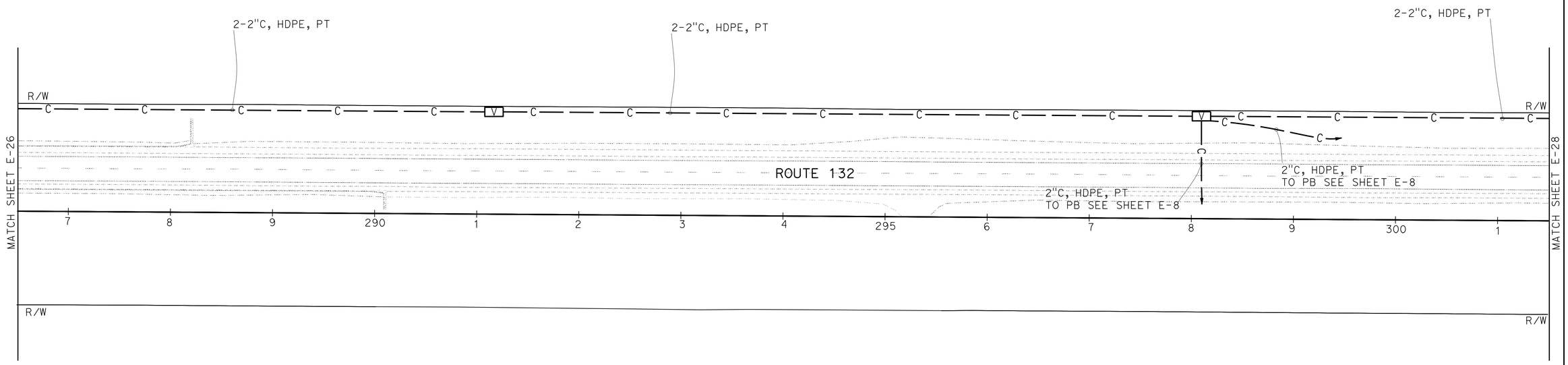

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-27

SCALE: 1"=50'

GURVINDERJIT S. BAINS	GSB
PAUL MATOS	09-21-15
CALCULATED-DESIGNED BY	REVISED BY
CHECKED BY	DATE REVISED
FUNCTIONAL SUPERVISOR	
ALI BAKHDOUD	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:31

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Paul Matos 12-11-15
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12-14-15
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PAUL MATOS
No. 18757
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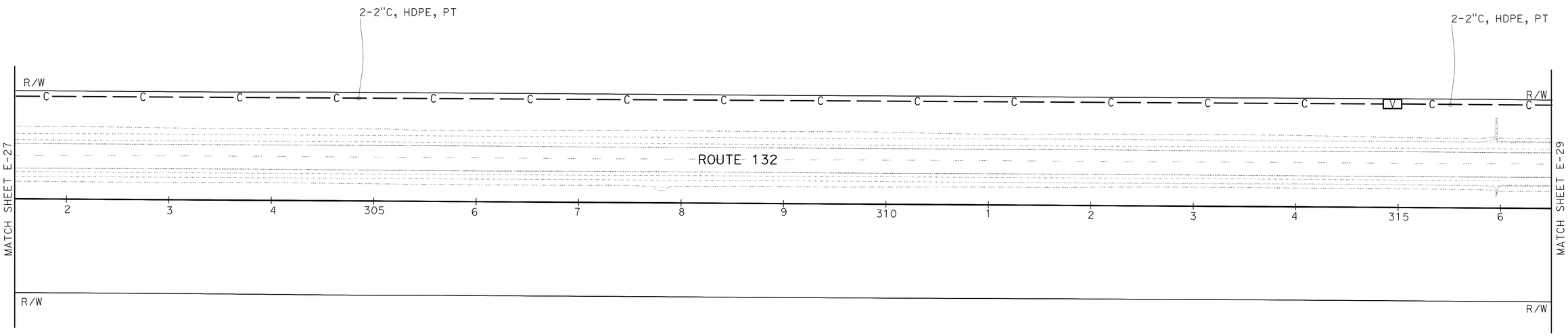

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-28

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:31

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Paul Matos 12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

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PAUL MATOS
No. 18757
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NOTES:

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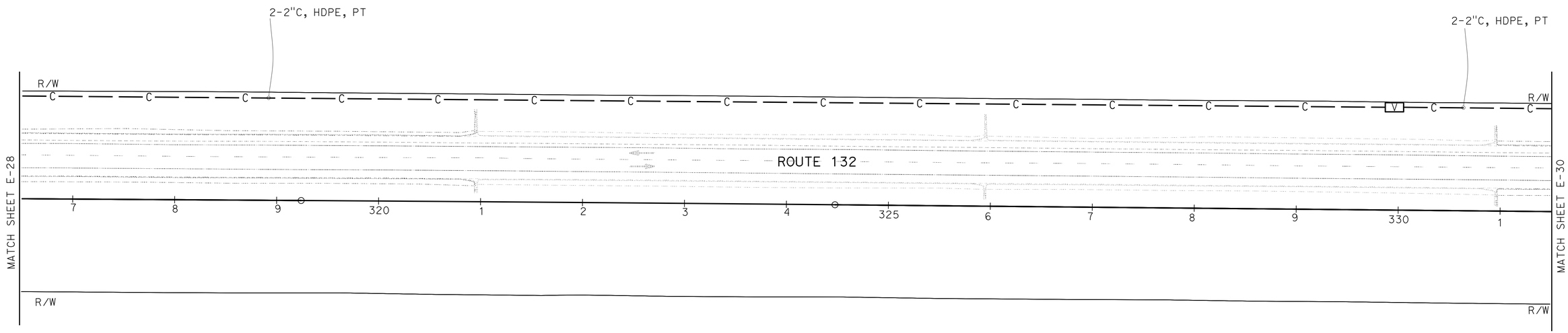

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-29

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
REVISED BY: GSB
DATE REVISED: 09-21-15

LAST REVISION 09-21-15
DATE PLOTTED => 11-JAN-2016
TIME PLOTTED => 13:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	313	424

12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

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

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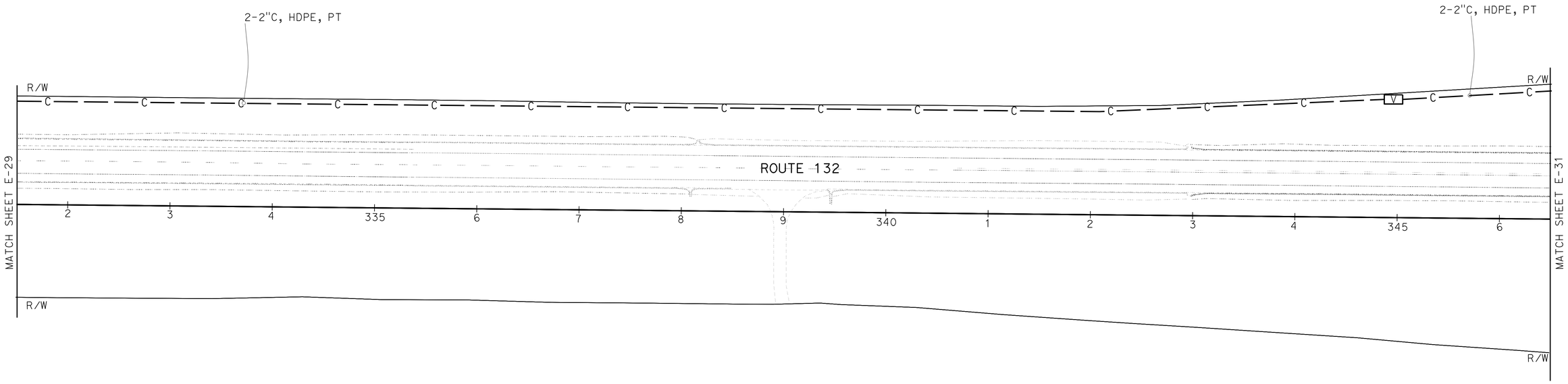

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT
E-30

SCALE: 1"=50'

GSB	09-21-15
REVISED BY	DATE REVISED
GURVINDERJIT S. BAINS	PAUL MATOS
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

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PLANS APPROVAL DATE 12-14-15

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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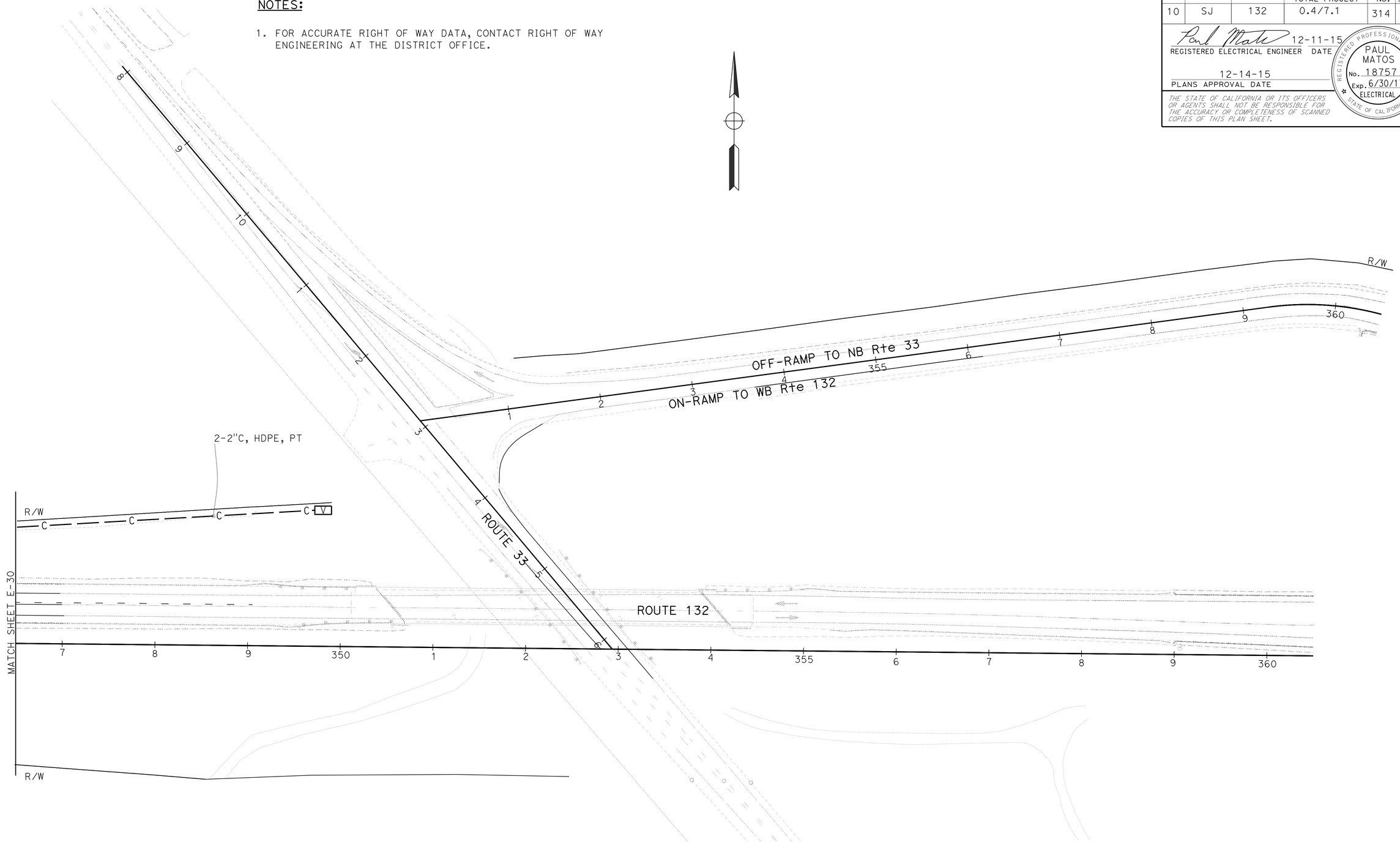

APPROVED FOR ELECTRICAL WORK ONLY

COMMUNICATION CONDUIT

SCALE: 1"=50'

E-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans 06-ELECTRICAL DESIGN
FUNCTIONAL SUPERVISOR	ALI BAKHDOUD
CALCULATED-DESIGNED BY	GURVINDERJIT S. BAINS
CHECKED BY	PAUL MATOS
REVISED BY	GSB
DATE REVISED	09-21-15

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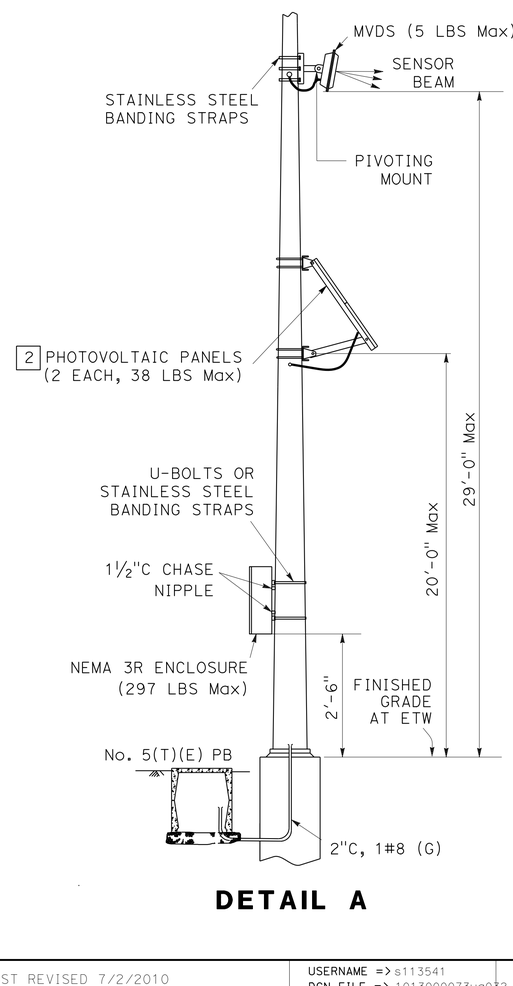
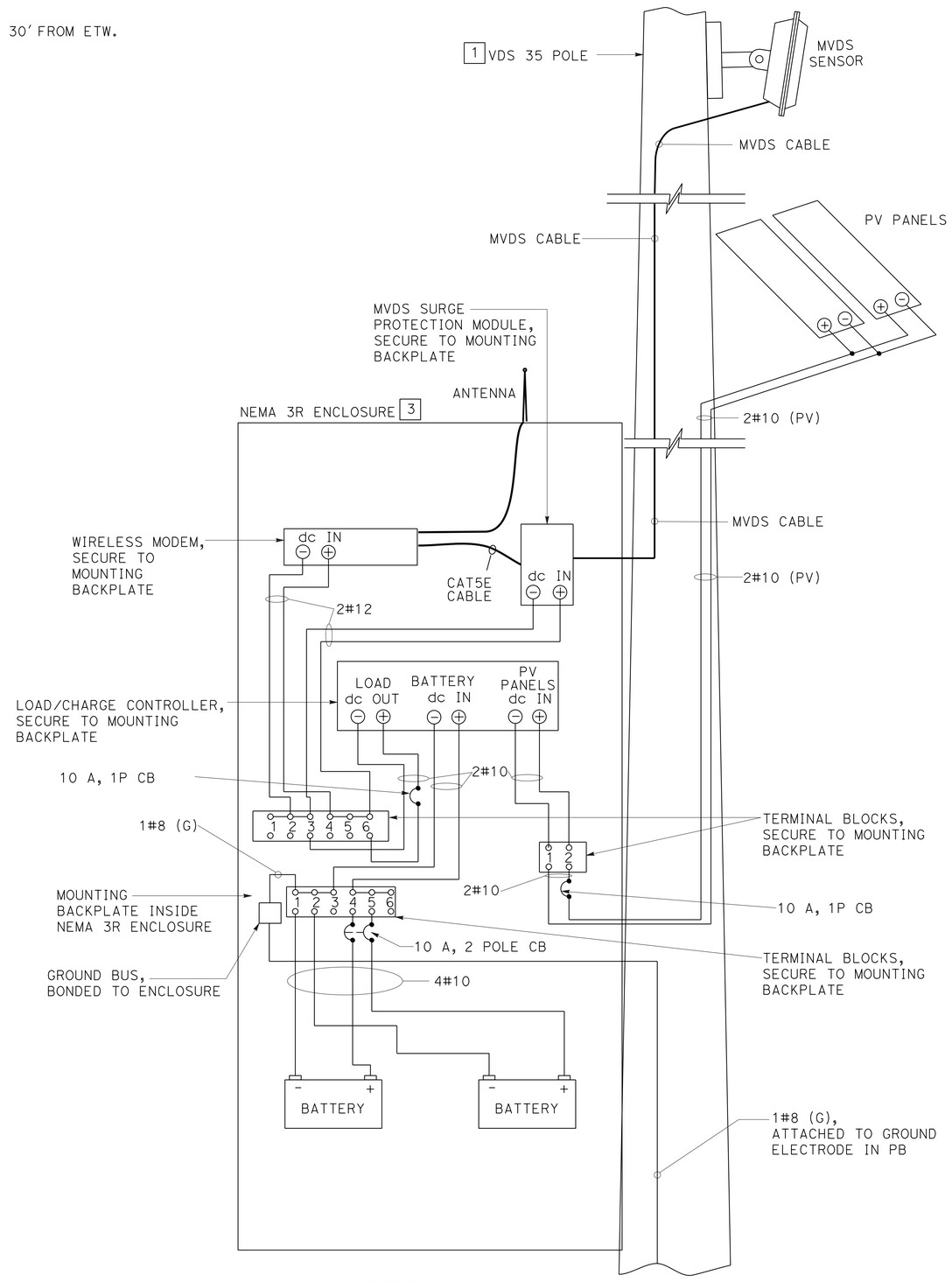
LEGEND: (FOR THIS SHEET ONLY)

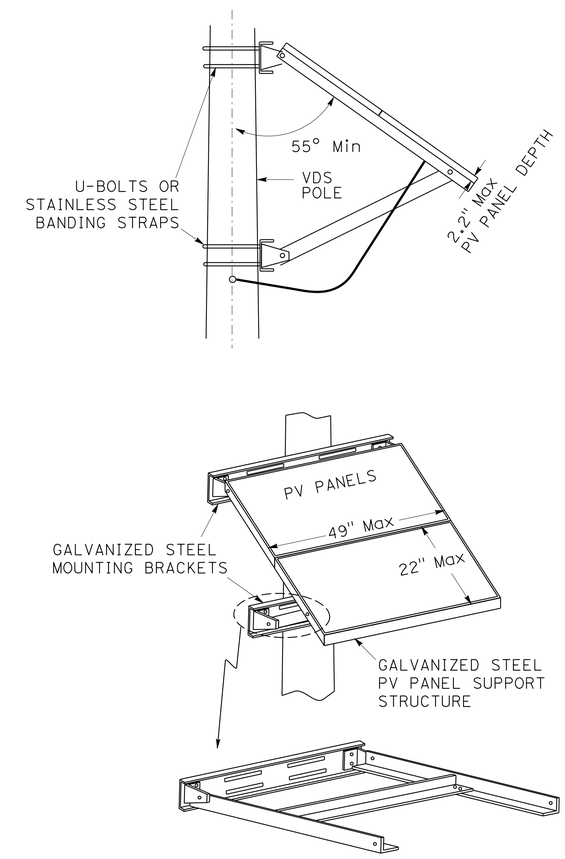
1. VDS 35 POLE WITH SOLAR POWERED MVDS ASSEMBLY, Min 30' FROM ETW.
2. SEE DETAIL B ON THIS SHEET.
3. SEE SHEET E-38 FOR NEMA 3R ENCLOSURE DETAILS.



DETAIL A



DETAIL C



DETAIL B

ELECTRICAL DETAILS

NO SCALE

E-32

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
GURVINDERJIT S. BAINS	PAUL MATOS	GSB	09-21-15

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06EEEECTRICAL DESIGN

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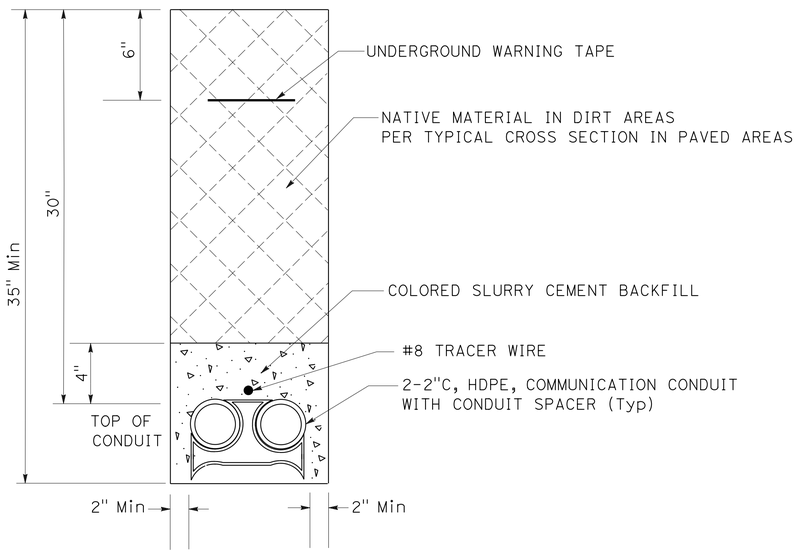
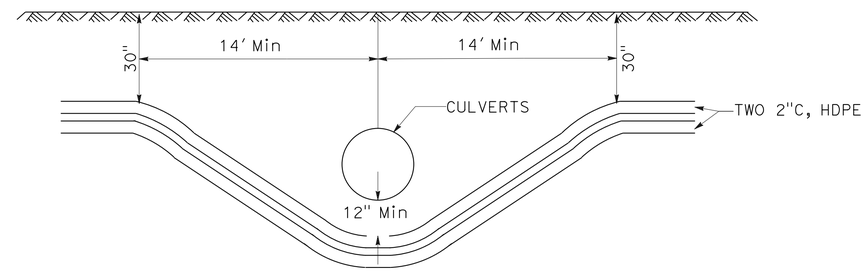
NOTES:

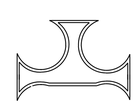
1. ANY COMMUNICATION CONDUIT INSTALLED WITHIN 3' OF GUARDRAIL MUST BE 55" MINIMUM DEPTH TO TOP OF CONDUIT.
2. ALL COMMUNICATION CONDUIT MUST BE FITTED WITH UNDERGROUND RATED CONDUIT SPACERS AT INCREMENTS OF 5'.



TRENCH IN DIRT/PAVEMENT DETAIL
2-2" HDPE CONDUIT
DETAIL A



HDPE CONDUIT
DETAIL B



CONDUIT SPACER (Typ)

ELECTRICAL DETAILS
E-33

NO SCALE

REVISED BY	GSB
DATE REVISED	09-21-15
CALCULATED-DESIGNED BY	GURVINDERJIT S. BAINS
CHECKED BY	PAUL MATOS
FUNCTIONAL SUPERVISOR	ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

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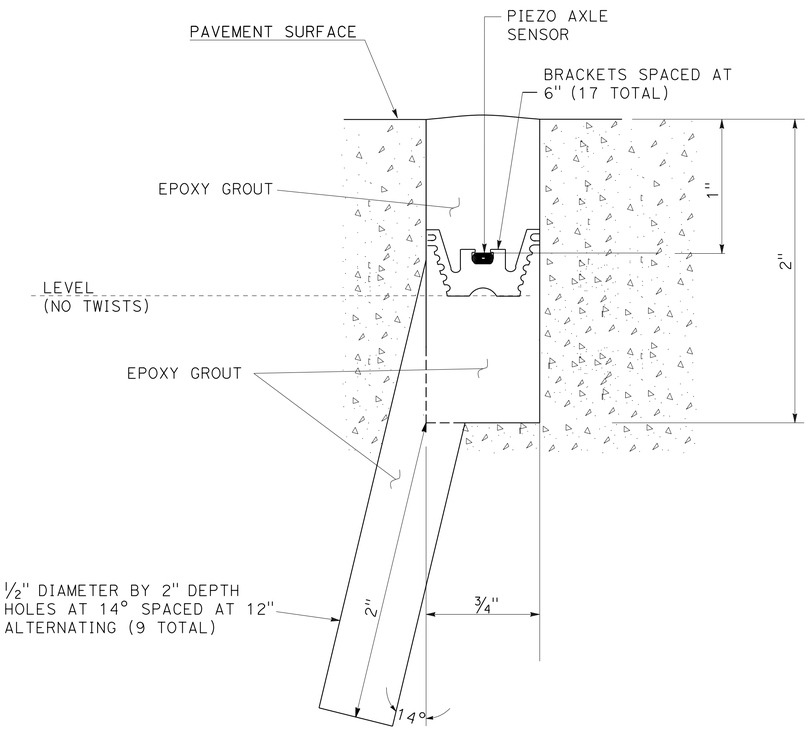
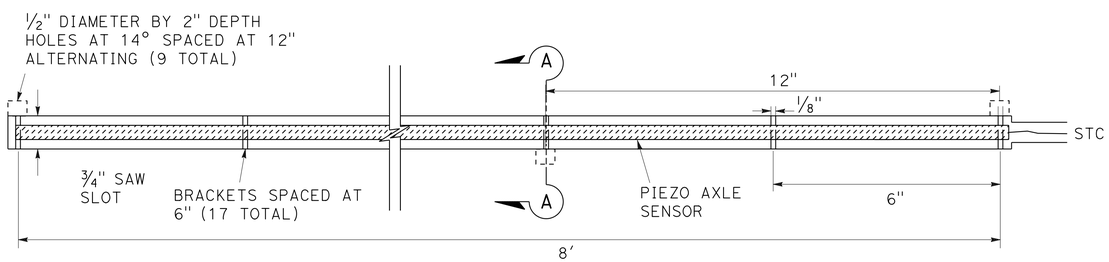
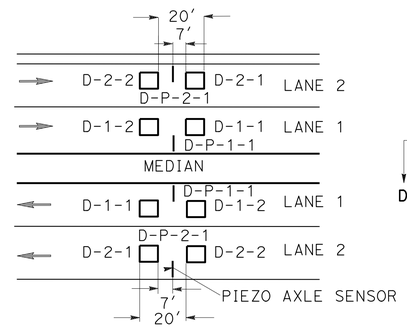


SECTION A-A



PIEZO AXLE SENSOR INSTALLATION (TOP VIEW) DETAIL A



LOOP DETECTOR SENSOR DESIGNATION

D-L-N

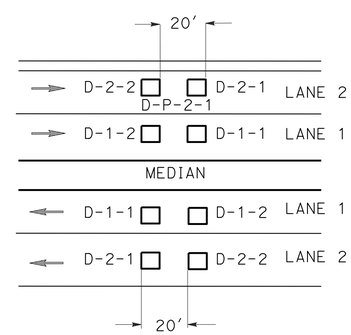
- DIRECTION OF TRAFFIC
  - N - NORTHBOUND
  - S - SOUTHBOUND
  - E - EASTBOUND
  - W - WESTBOUND
- 1 - LEADING
- 2 - TRAILING
- LANE NUMBER

PIEZO AXLE SENSOR DESIGNATION

D-P-L-N

- DIRECTION OF TRAFFIC
  - N - NORTHBOUND
  - S - SOUTHBOUND
  - E - EASTBOUND
  - W - WESTBOUND
- 1 - FOR ALL PIEZO AXLE SENSORS
- LANE NUMBER
- P - PIEZO AXLE SENSOR

TYPICAL LOOP DETECTOR AND PIEZO AXLE SENSOR PLACEMENT AND DESIGNATION DETAIL B



LOOP DETECTOR SENSOR DESIGNATION

D-L-N

- DIRECTION OF TRAFFIC
  - N - NORTHBOUND
  - S - SOUTHBOUND
  - E - EASTBOUND
  - W - WESTBOUND
- 1 - LEADING
- 2 - TRAILING
- LANE NUMBER

TYPICAL INDUCTIVE LOOP DETECTOR PLACEMENT AND DESIGNATION DETAIL C

ELECTRICAL DETAILS
E-34

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
CHECKED BY: PAUL MATOS
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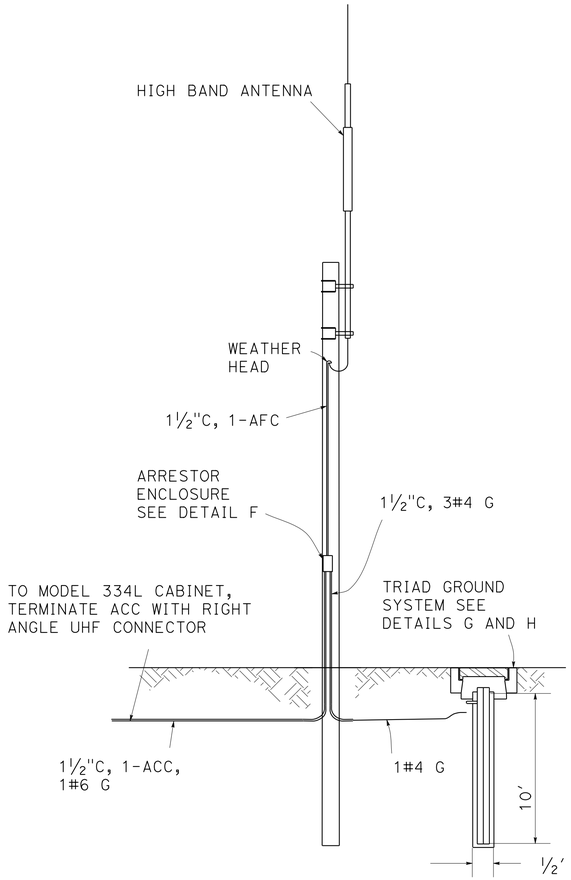
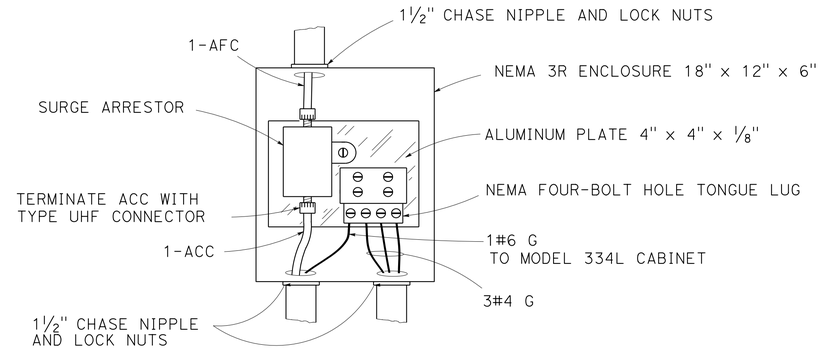
NOTE:

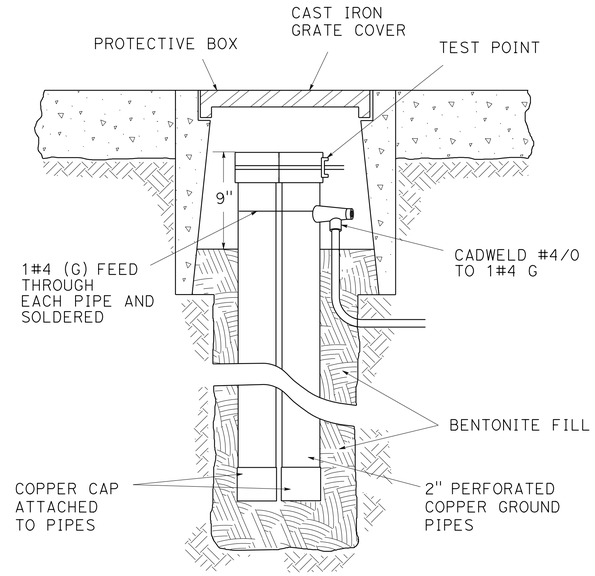
1. SEE SHEET SES-1 FOR WOOD POLE DETAILS.



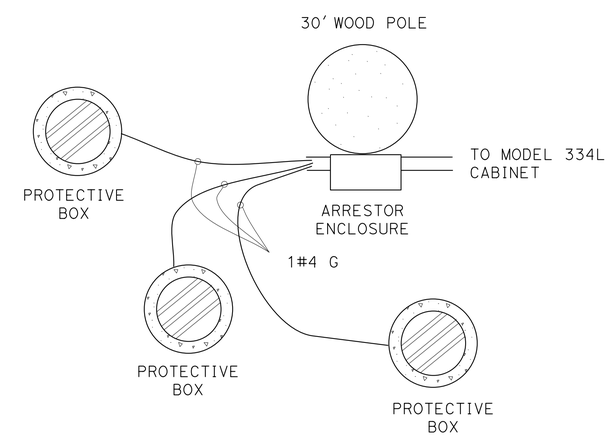
DETAIL E



DETAIL F



DETAIL G



DETAIL H

HIGHWAY ADVISORY RADIO SYSTEM

ELECTRICAL DETAILS
E-35

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

GURVINDERJIT S. BAINS | PAUL MATOS | REVISED BY | DATE REVISED 09-21-15 | GSB
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | ALI BAKHDOUD

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:31

BORDER LAST REVISED 7/2/2010 | USERNAME => s113541 | DGN FILE => 1013000073ua035.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1515 | PROJECT NUMBER & PHASE 10130000731

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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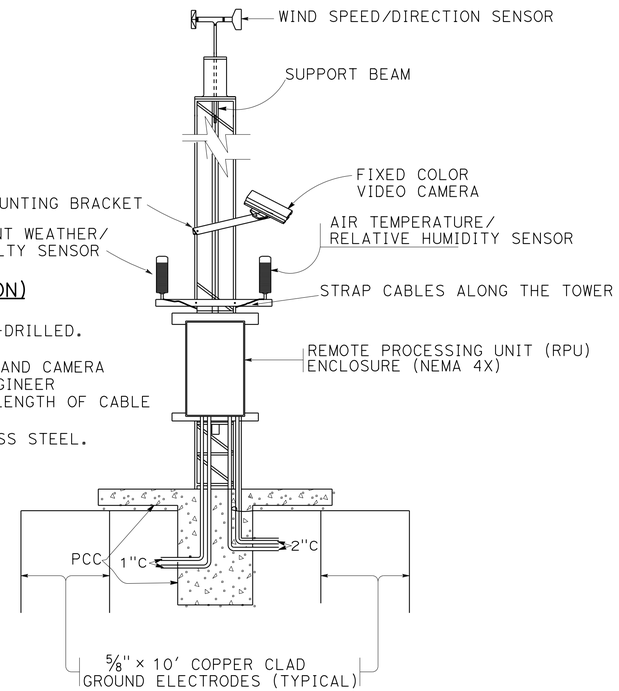
NOTES (FOR THIS SHEET ONLY):

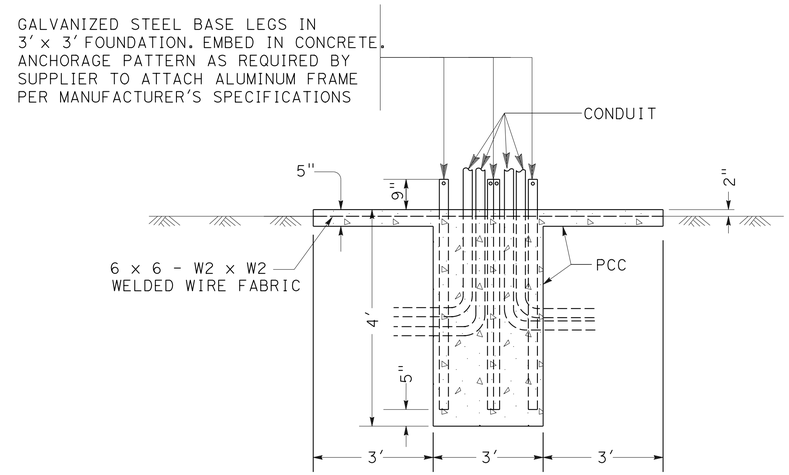
1. ALL (ac) CONDUCTORS MUST BE #14 OR LARGER AND (dc) CONDUCTORS #18 OR LARGER.
2. 1#6 COPPER GROUND CONDUCTOR GOING THROUGH FOUNDATION MUST BE INSTALLED IN ½" CONDUIT.



NOTES: (CAMERA INSTALLATION)

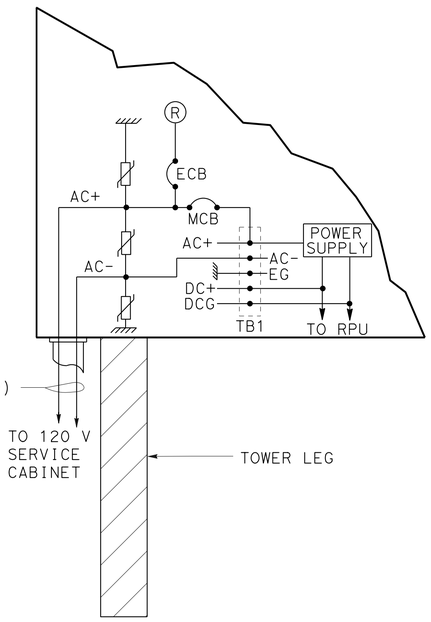
1. MOUNTING BRACKET MUST BE PRE-DRILLED.
2. POSITION OF MOUNTING BRACKET AND CAMERA MUST BE DETERMINED BY THE ENGINEER PER DESIRED CAMERA VIEW AND LENGTH OF CABLE ATTACHED TO THE CAMERA.
3. ALL HARDWARE MUST BE STAINLESS STEEL.

RWIS ASSEMBLY INSTALLATION

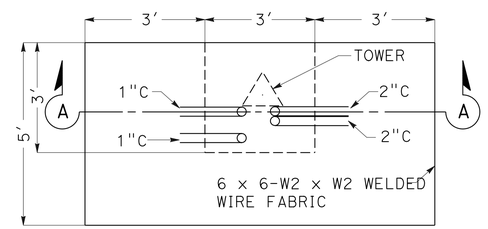


RWIS FOUNDATION DETAIL

SECTION A-A

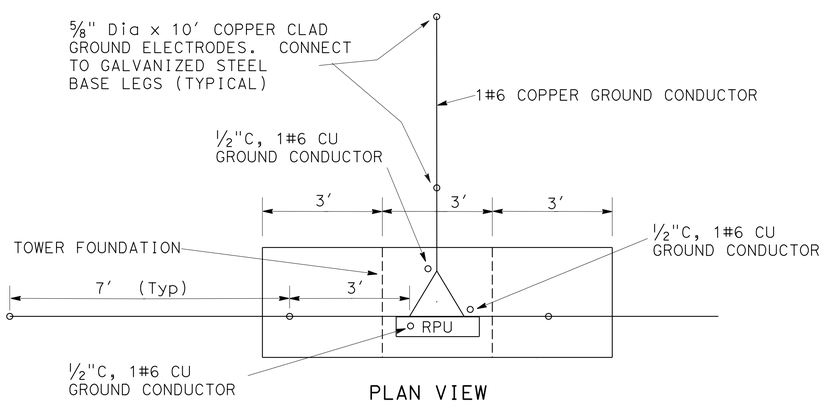


RWIS POWER CONNECTION



RWIS FOUNDATION DETAIL

PLAN VIEW



PLAN VIEW

RWIS GROUNDING DETAILS

ABBREVIATIONS:

RPU - REMOTE PROCESSING UNIT
VS - VISIBILITY SENSOR
MCB - 15 A, 1P, MAIN CB IN THE BREAKER BOX
ECB - 15 A, 1P, EQUIPMENT CB IN NEMA 4X ENCLOSURE
R - NEMA 15-15R DUPLEX RECEPTACLE
TB1 - 6 POSITION MINIMUM PHOENIX CONTACT #USK 10 OPEN CONSTRUCTION TERMINAL (OR EQUAL) BLOCK MOUNTED ON 9" DIN RAILING.

LEGENDS:

- EARTH OR EQUIPMENT GROUND
- SURGE PROTECTOR

ELECTRICAL DETAILS
E-36

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
ALI BAKHDOUD	GURVINDERJIT S. BAINS	PAUL MATOS	GSB	09-21-15

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:31

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PAUL MATOS
No. 18757
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

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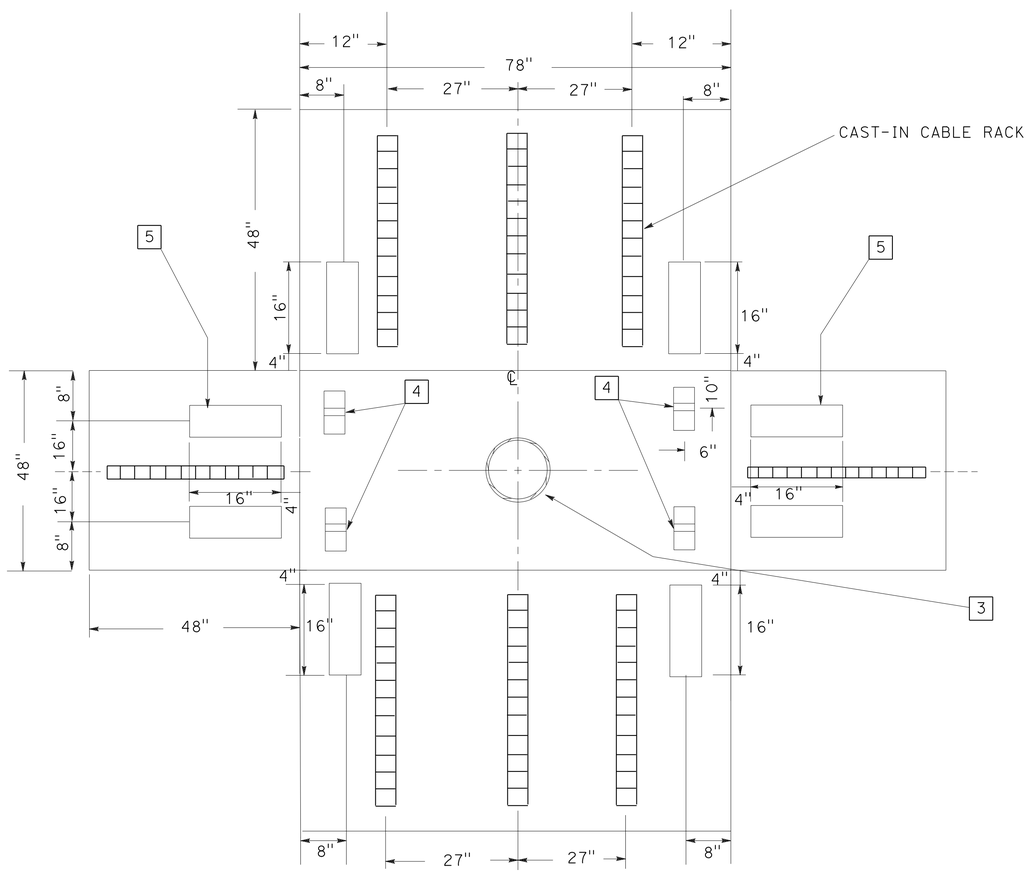
LEGEND:

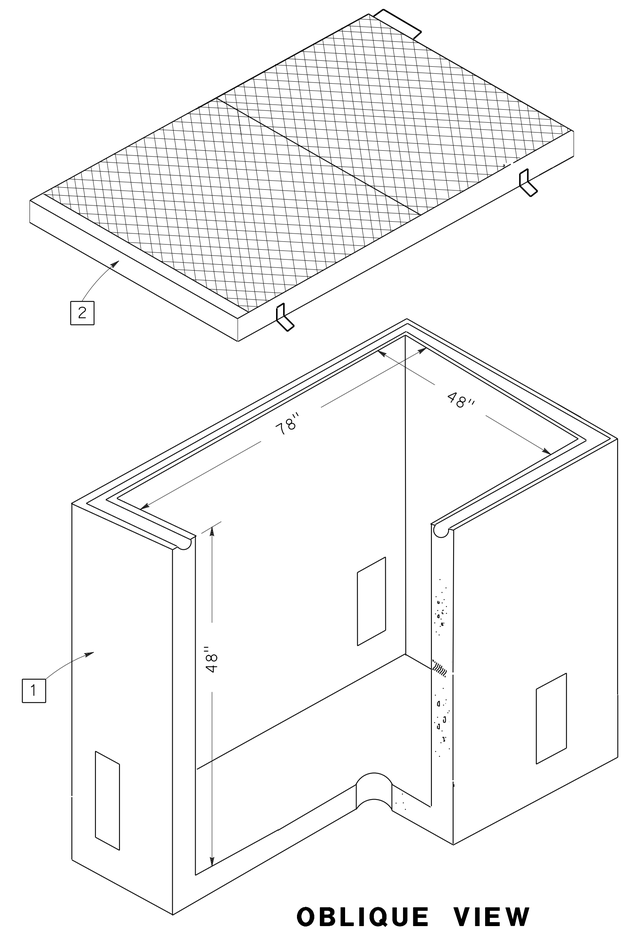
1. GALVANIZED CAST-IN ANGLE FRAME.
2. TWO PIECE TRAFFIC RATED TORSION ASSISTED COVER, WITH PICK SLOTS AND BOLT DOWN HOLES. GALVANIZED AFTER FABRICATION.
3. 12" DIAMETER DRAIN HOLE. LOCATE AT CENTER.
4. 7/8" DIAMETER PULL IRONS (4 EA) Typ.
5. 16" x 4" KNOCK-OUTS (8 EA) Typ.

NOTES:

1. VAULT DESIGNED IN ACCORDANCE WITH AASHTO H-20-44 TRAFFIC BRIDGE LOADING USING 25.9 MPa COMPRESSIVE STRENGTH CONCRETE AND 413.7 MPa YIELD STRENGTH ASTM A-706 STEEL REINFORCEMENT PER CALCULATIONS.
2. VAULT MUST BE PLACED ON A 12" BASE OF CRUSHED ROCK
3. EACH VAULT MUST COME PROVIDED WITH TWO SETS BOLT/LID REMOVERS
4. ALL MOUNTING HARDWARE MUST BE GALVANIZED OR STAINLESS STEEL.



PLAN



OBLIQUE VIEW

ELECTRICAL DETAILS
E-37

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: GURVINDERJIT S. BAINS
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Paul Matos 12-11-15
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12-14-15
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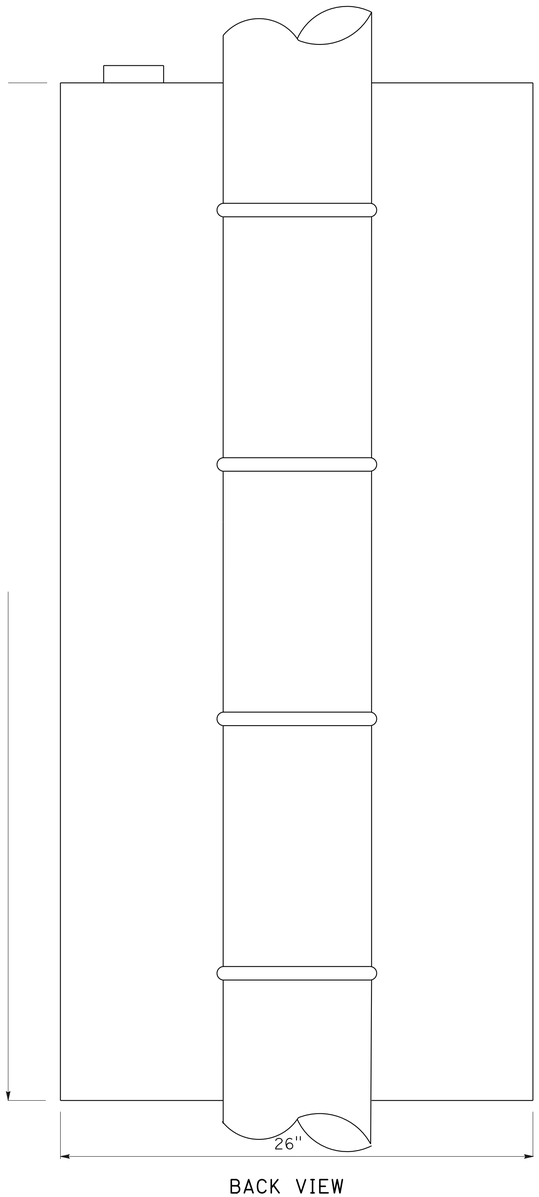
LEGENDS:

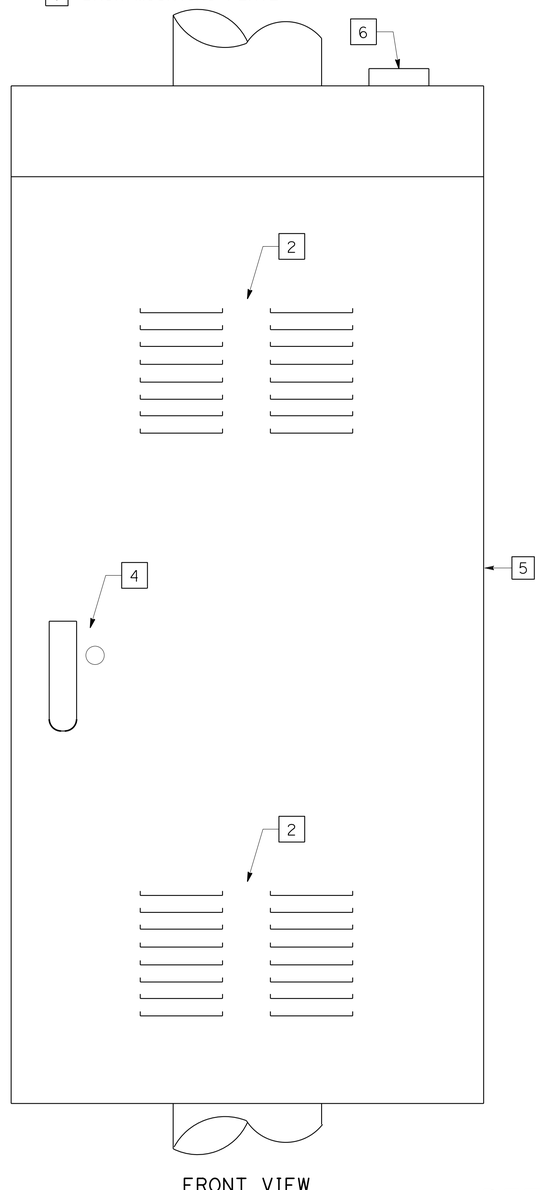
1. ALUMINUM SHELF REQUIRED TO PROVIDE SEPARATION OF THE EQUIPMENT AND BATTERY COMPARTMENTS. THE SHELF EDGE MUST EXTEND TO ALL FOUR ENCLOSURE WALLS. SPACES BETWEEN THE SHELF AND ENCLOSURE WALLS MUST BE SEALED.
2. FILTERED VENTILATION LOUVERS.
3. ALUMINUM SHELF REQUIRED FOR EQUIPMENT. 2" SPACE BETWEEN SHELF AND ENCLOSURE BACK WALL REQUIRED.
4. THREE POINT LOCKING SYSTEM MUST BE INTEGRATED WITH DOOR HANDLE. ROLLERS MUST BE USED IN CONJUNCTION WITH THE THREE POINT LOCKING SYSTEM.
5. DOOR HINGE.
6. ANTENNA.
7. BACK MOUNTING PLATE
8. ANTENNA CABLE.
9. DOOR HANDLE TO ENCLOSURE PADLOCK LATCH.
10. SEAL OPENING AROUND CONDUCTORS.

NOTE: (FOR THIS SHEET ONLY)

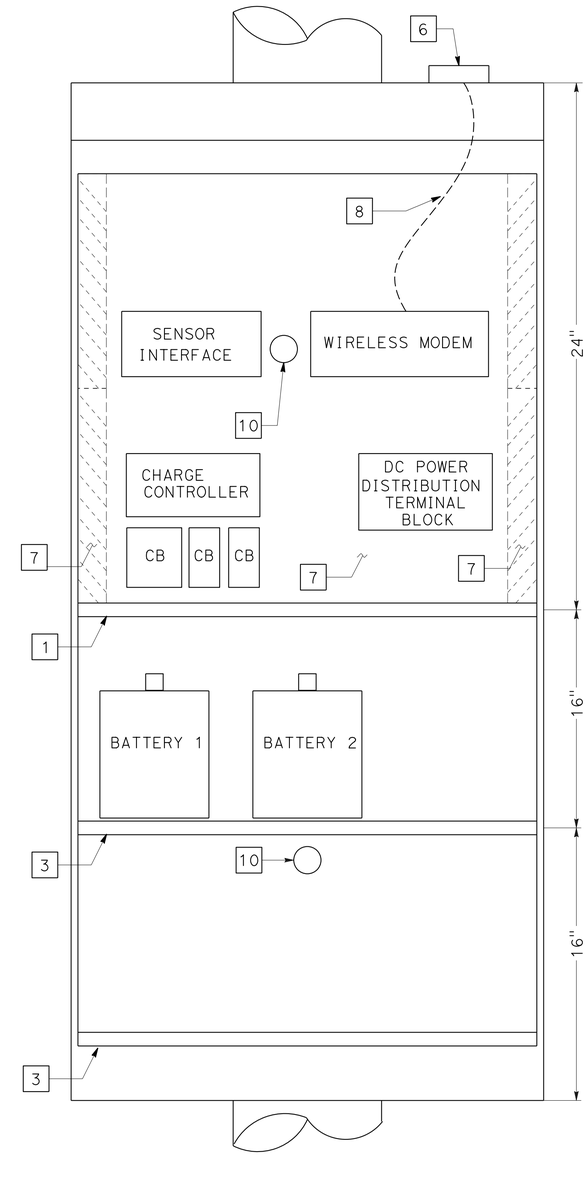
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING MATERIAL.



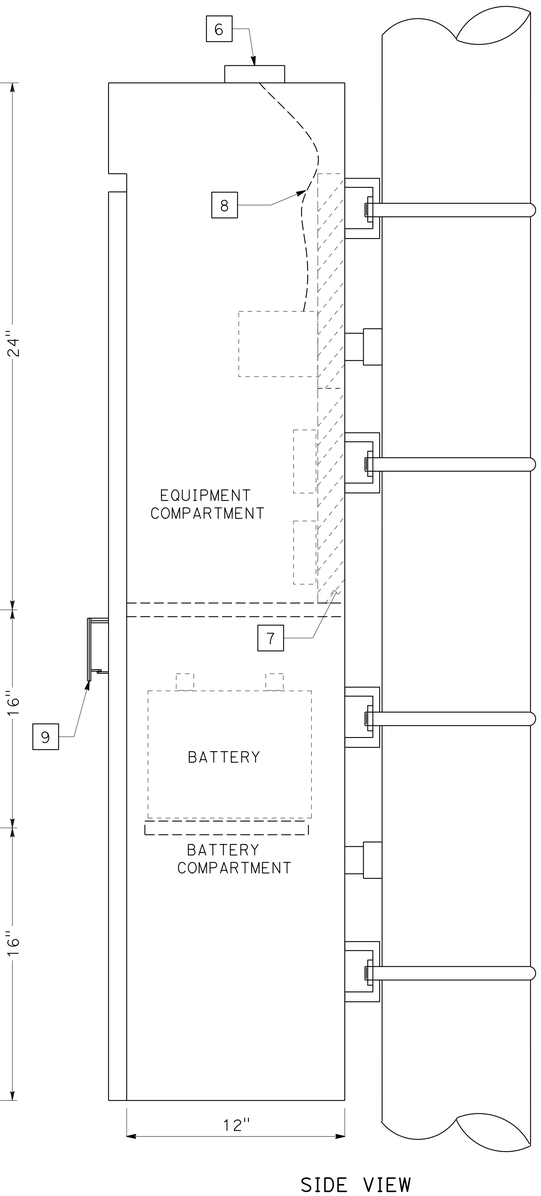
BACK VIEW



FRONT VIEW



FRONT VIEW (INTERIOR)



SIDE VIEW

DETAIL C

NEMA 3R ENCLOSURE

ELECTRICAL DETAILS

NO SCALE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
ALI BAKHDOUD	GURVINDERJIT S. BAINS	PAUL MATOS	GSB	09-21-15

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	132	0.4/7.1	322	424

12-11-15
REGISTERED ELECTRICAL ENGINEER DATE

12-14-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAUL MATOS No. 18757 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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

NOTES:

1. QUANTITIES SHOWN IN THE TABLE ARE NOT SEPARATE PAY ITEMS, FOR INFORMATION ONLY. FOR COMPLETE ELECRICAL WORK, SEE ELECTRICAL PLAN SHEETS.

ELECTRICAL SYSTEMS

SHEET No.	No. 5(T)(E) PB	No. 6(T)(E) PB	UTILITY PB	DETECTOR LOOP, TYPE A	TYPE III-A SERVICE FOUNDATION	TYPE III-A SERVICE ENCLOSURE	WOOD POLE-45FT	MODEL 334L CABINET FOUNDATION	MODEL 334L CABINET	WIRELESS MODEM	CCTV 40 POLE	CAMERA ASSEMBLY	CAMERA CONTROL UNIT	VIDEO ENCODER UNIT	RWIS COMPLETE SYSTEM	HAR EQUIPMENT EXCLUDING WOOD POLE, EMS AND CONTROLLER CABINET	ATC	PIEZO AXLE SENSORS	2" CONDUIT (TYPE 1)	3" CONDUIT (TYPE 1)	2" CONDUIT (TYPE 3)	3" CONDUIT (TYPE 3)	4" CONDUIT (TYPE 3)	No. 6 CONDUCTOR (CU)	No. 2 CONDUCTOR (CU)	No. 6 CONDUCTOR (G) (CU)	No. 6 CONDUCTOR (AL)	No. 2 CONDUCTOR (AL)	DLC
	EA																		LF										
E-2	6	1	1	4	1	1		1		1	1	1	1	1					50	50	60	440					450	920	
E-3																									1800				
E-4	17	2		16	1	1	1	2	1	2	1	1	1	1		1	1	4	160	20	400	570	150						2250
E-5	2			10																		150							1250
E-7	3			8													1	4				660		800					2400
E-8	12	3	1		1	1		2		3	2	2	2	2	1				80	70	150	550					3200	50	
E-9	2			4													1	2			85	85					100		600
E-11	5	1	1	4	1	1		1	1	1	1	1	1	1			1	2	35	20	500	80				1000		100	160

COMMUNICATION CONDUIT

SHEET No.	SPLICE VAULT	3" CONDUIT (TYPE 3)	No. 6 CONDUCTOR (CU)	WARNING TAPE	TRACER WIRE	2" HDPE CONDUIT
	EA	LF				
E-12	1			960	960	1920
E-13	2			1050	1050	2100
E-14	1			1510	1510	3020
E-15	1			1415	1415	2830
E-16	1			1500	1500	3000
E-17	1			1540	1540	3040
E-18	2			2455	2455	4200
E-19	1			1710	1710	3420
E-20	1			1520	1525	3050
E-21	2			1505	1505	3010
E-22	1			1735	1735	3470
E-23	1	180	400	1525	1525	3050
E-24	1			1500	1500	3000
E-25	1			1500	1500	3000
E-26	1			1505	1505	3010
E-27	2			1895	1895	3500
E-28	1			1500	1500	3000
E-29	1			1505	1505	3010
E-30	1			1500	1500	3000
E-31	1			335	335	770

MODIFY LIGHTING

SHEET No.	No. 5(T)(E) PB	DETECTOR LOOP, TYPE A	STANDARD FOUNDATION TYPE 30	STANDARD TYPE 30	2" CONDUIT (TYPE 1)	2" CONDUIT (TYPE 3)	3" CONDUIT (TYPE 3)	No. 14 CONDUCTOR (CU)	No. 6 CONDUCTOR (AL)	No. 8 CONDUCTOR (G) (CU)	DLC
	EA				LF						
E-6	4						380		800		
E-10	7	2	3	3	30	400	400	300	2800	800	5200

MICROWAVE VEHICLE DETECTION SYSYTEM

SHEET No.	No. 5(T)(E) PB	WIRELESS MODEM	MVDS SENSOR	PHOTOVOLTAIC PANEL	BATTERY	NEMA 3R ENCLOSURE	VDS 35 POLE	VDS 35 POLE FOUNDATION	2" CONDUIT (TYPE 1)
	EA								LF
E-1	1	1	1	2	2	1	1	1	10

ELECTRICAL QUANTITIES
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

GURVINDERJIT S. BAINS | PAUL MATOS | REVISED BY | DATE REVISED 09-21-15 | GSB | CALCULATED-DESIGNED BY | CHECKED BY | FUNCTIONAL SUPERVISOR ALI BAKHDOUD

LAST REVISION 09-21-15 | DATE PLOTTED => 11-JAN-2016 | TIME PLOTTED => 13:31