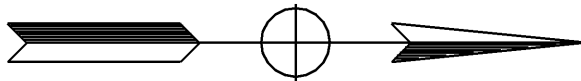
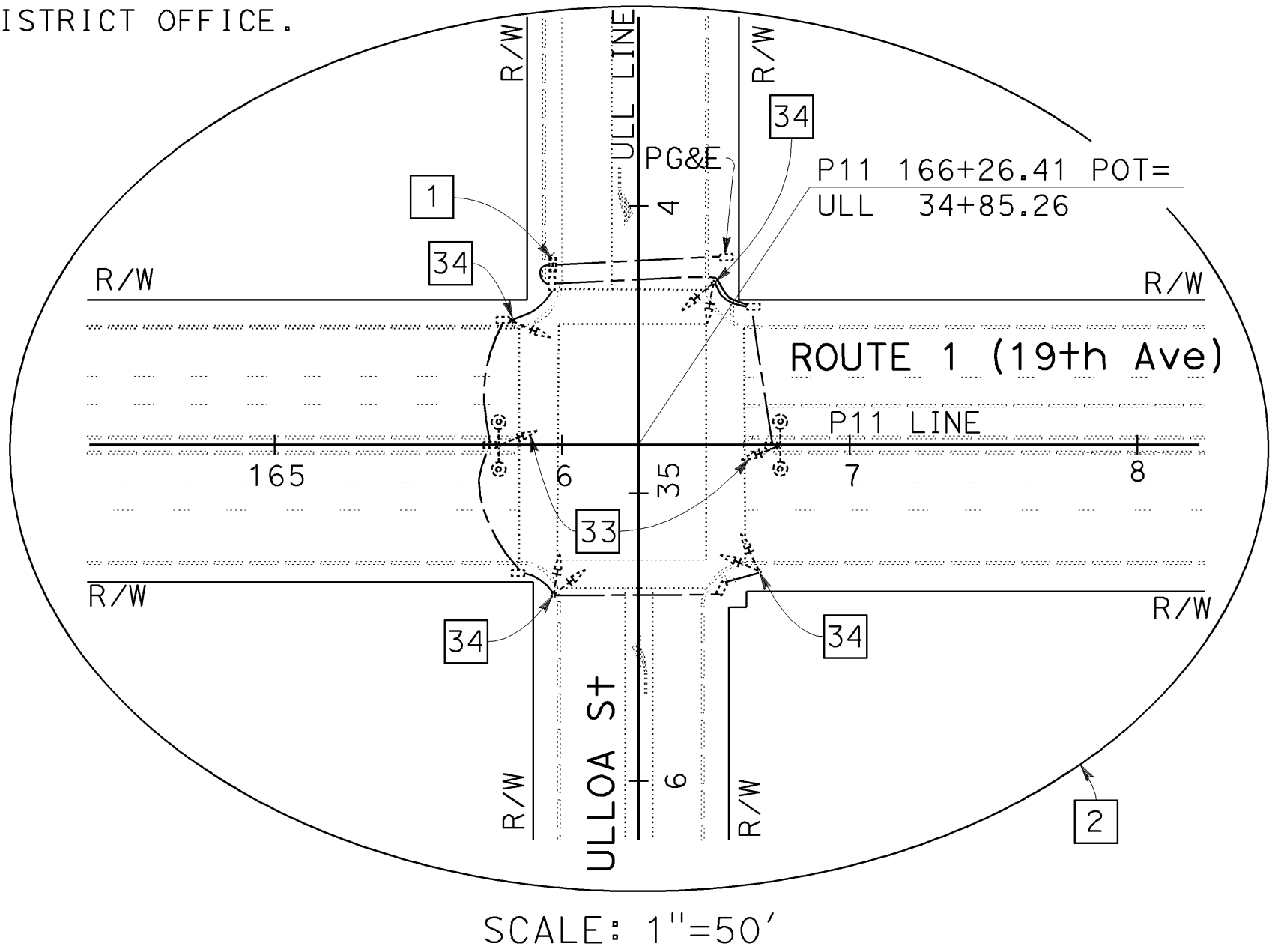


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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR		CALCULATED-DESIGNED BY	HENRY Q. GU	REVISED BY	
	KENNETH Y. XU					
	KENNETH Y. XU					
<i>Caltrans</i>	ELECTRICAL					

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



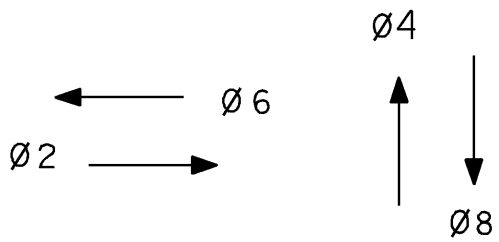
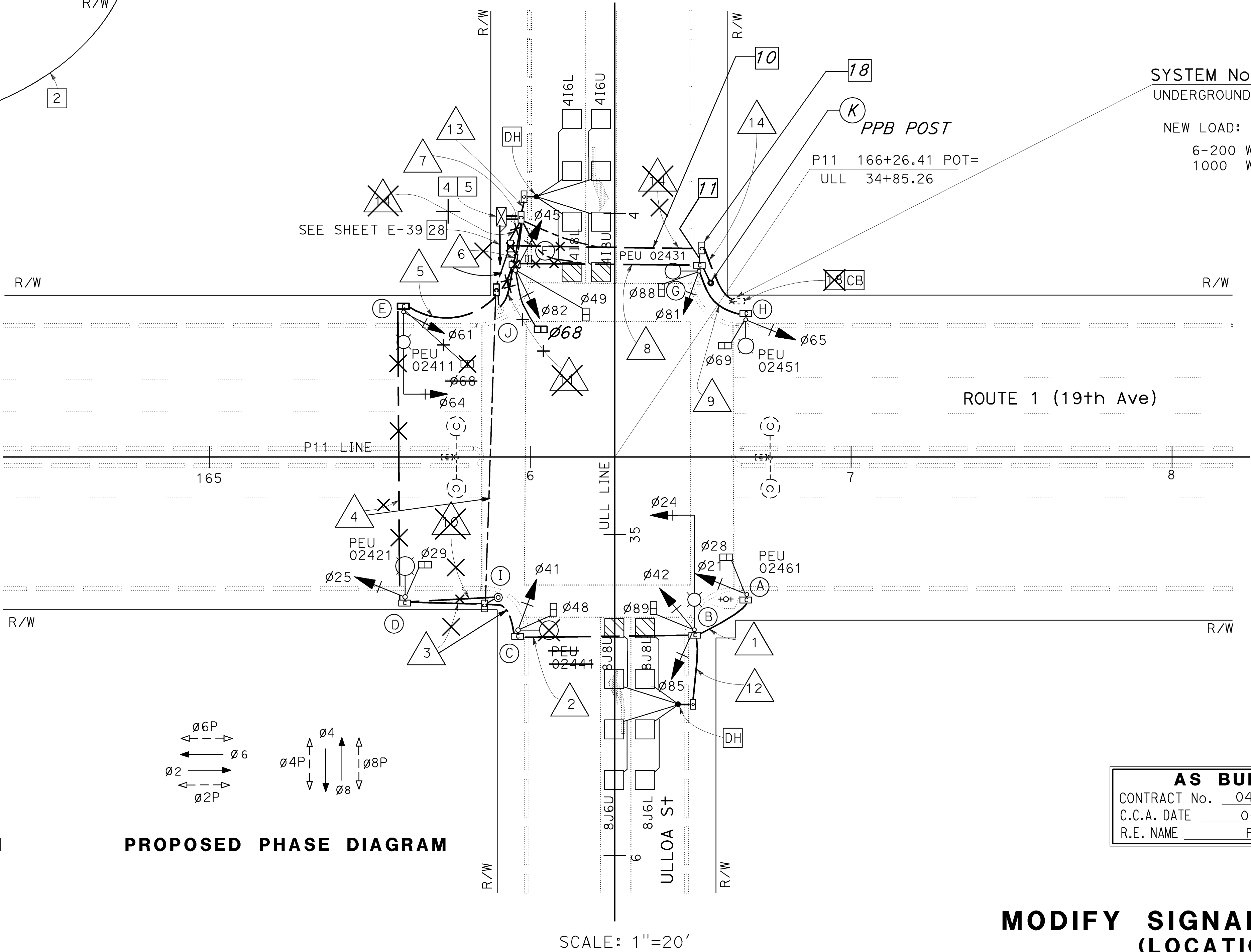
EXISTING EQUIPMENT TO BE REMOVED AND SALVAGED

1 TYPE "M" INTERSECTION CONTROLLER ASSEMBLY

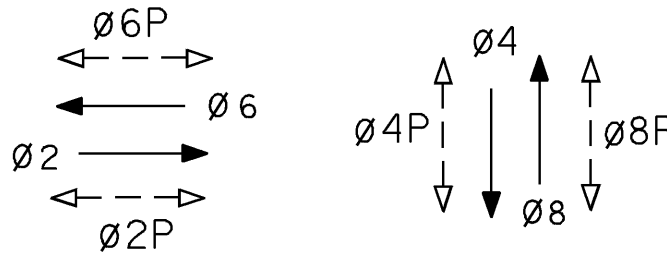
Signal Switch Over on 08-05-2009

SYSTEM No. 34-001-02361 (PG&E)
UNDERGROUND SERVICE(120/240 V)

NEW LOAD:
6-200 W HPS LUMINAIRES
1000 W TRAFFIC SIGNAL



EXISTING PHASE DIAGRAM



PROPOSED PHASE DIAGRAM

AS BUILT	
CONTRACT No.	04-162524
C.C.A. DATE	05/28/10
R.E. NAME	F Duan

MODIFY SIGNAL AND LIGHTING
(LOCATION No. 3)

ROUTE 1 / ULLOA STREET

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

RELATIVE BORDER SCALE
IS IN INCHES



USERNAME => s135696
DGN FILE => 416252ua005.asb

CU 04371

EA 162521

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STATE OF CALIFORNIA



DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR

KENNETH Y. XU

CALCULATED/DESIGNED BY

CHECKED BY

HENRY Q. GU

KENNETH Y. XU

REVISED BY

DATE REVISED

CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS													
	RUN NUMBER													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
No. 14 CONDUCTORS														
ø21, ø24, ø25	3	6	6	3	9	9	9							
ø41, ø42, ø45		3	6	6	6	6	9	9						
ø61, ø64, ø65					6	6	9	9	3	3				
ø81, ø82, ø85		3	3	3	3	3	9	9	3					
ø28, ø29	2	2	2	2	4	4	4							
ø48, ø49				2	2	2	2	4	4					
ø68, ø69					2	2	4	4	2	2				
ø88, ø89		2	2	2	2	2	4	4	2					
PPB(ø28, ø29)	2	2	2	2	2	2	4	4		+				
PPB(ø48, ø49)				2	2	2	4	4		+	+			
PPB(ø68, ø69)					2	2	4	4	2		+			
PPB(ø88, ø89)	2	2	2	1	1	2	4	4	2	2				
PPB NEUTRAL	1	1	1	1	1	2	2	1	1					
SPARE	3	3	3	3	3	3	6	6	3	3				
TOTAL No. 14	10	22	27	34	42	68	68	16	10	2	2			
	10	23	28	25	9	39	74	17	10					
No. 8 CONDUCTORS														
SIGNAL NEUTRAL	1	1	1	1	1	1	2	2	1	1				
LIGHTING(240 V)		2	2	2	2	2		2	2					2
TOTAL No. 8	1	3	3	3	3	3	3	4	2	3	3			2
No. 6 CONDUCTORS														
120 V SERVICE TO CONTROLLER							2							2
TOTAL No. 6							2							2
DETECTOR CABLES (TYPE B)														
4I6U							1						1	
4I6U							1						1	
4I8L							1						1	
4I8U							1						1	
8J6U		1	1	1	1	+	1					1		
8J6L		1	1	1	1	+	1					1		
8J8L		1	1	1	1	+	1					1		
8J8U		1	1	1	1	+	1					1		
TOTAL DETECTOR CABLES		4	4	4	4	4	8					4	4	
CONDUIT SIZE	2	2½	3	2½	2½	2½	2-3	2	2	1	3+	1½	1½	1½

CHANGE TOTAL

NOTE (FOR THIS SHEET ONLY):
SEE SIGNING PLANS FOR SIGN INSTALLATION REQUIREMENTS.

POLE AND EQUIPMENT SCHEDULE									
LOCATION	STANDARD			VEH SIGNAL MOUNTING		PED SIGNAL MOUNTING	PPB	HPS LUMINAIRE (WATTS)	SPECIAL REQUIREMENT *
	TYPE	SMA (ft)	LMA (ft)	MAST ARM	POLE		Ø		
Ⓐ	1-A				TV-1-T	SP-1-T	89		
Ⓑ	24-3-100	35	8+2	MAS	SV-2-T	SP-1-T	28	200	INSTALL PIPE TENON FOR FUTURE EVD SEE DETAIL 1 ON SHEET E-48.
Ⓒ	1-A 15TS		8+2		TV-1-T	SP-1-T	29	200	
Ⓓ	15TS		8+2		SV-1-T	SP-1-T		200	
Ⓔ	19-2-100	25	8+2	MAS	SV-1-T	SP-1-T		200	INSTALL PIPE TENON FOR FUTURE EVD SEE DETAIL 1 ON SHEET E-48.
Ⓕ	1-A				TV-2-T	SP-1-T	68		
Ⓖ	15TS		8+2	MAS	SV-1-T	SP-1-T	69	200	
Ⓗ	15TS		8+2		SV-1-T	SP-1-T	88	200	
Ⓘ	PPB POST						48		
⓵	PPB POST						49		
Ⓚ	PPB POST						69		

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

04

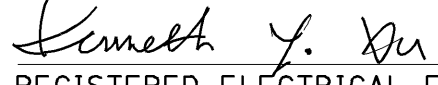
SF

1

R0.7/5.8

76

134

 10-24-07
REGISTERED ELECTRICAL ENGINEER DATE

1-14-08

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

Kenneth Y. Xu

No. 15219

Exp. 6-30-08

ELECT

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.

AS BUILT

CONTRACT No. 04-162524

C.C.A. DATE 05/28/10

R.E. NAME F Duan

MODIFY SIGNAL AND LIGHTING
(CONDUCTOR, POLE AND EQUIPMENT SCHEDULES)
(LOCATION No. 3)
ROUTE 1 / ULLOA STREET