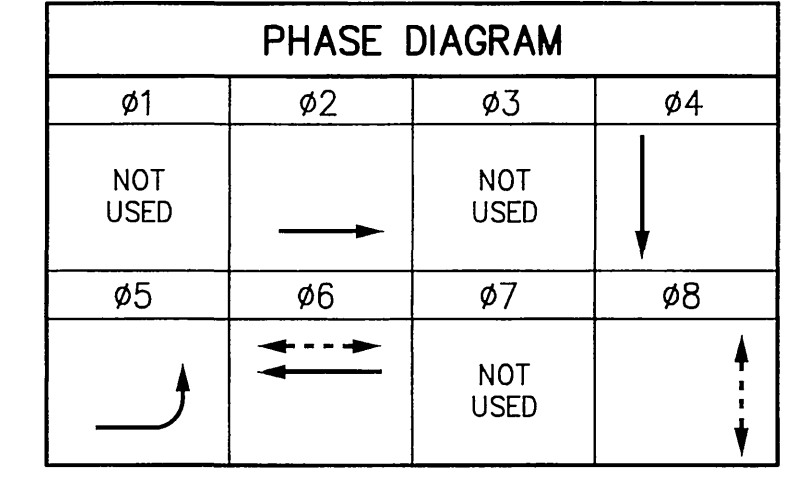


CONDUCTOR SCHEDULE						
AWG	POLE	RUNS				
		1	2	3	4	5
12c CABLE	1		1/-		1/-	
	2	-/1	-/1		-/1	
	3			1/1	1/1	
	4				1/1	
	5				2/1	2/1
	6				1/-	1/-
	TOTAL	-/1	1/1	1/1	6/4	3/1
#12	I.I.S.N.S.		2			2
#10	LUMINAIRES		2	2		2
LOOP DET. CABLE 2-#12 TYPE B	Ø2 DLC				3	3
	Ø4 DLC	2	2		2	
	Ø6 DLC				3	
	TOTAL	2	2		8	3
6 PR.#19	INTERCONNECT				1	
	CONDUIT SIZE	3"	3"	3"	2-3"	3"

ALL CONDUITS AND CONDUCTORS SHALL BE NEW.

**CONSTRUCTION NOTES**

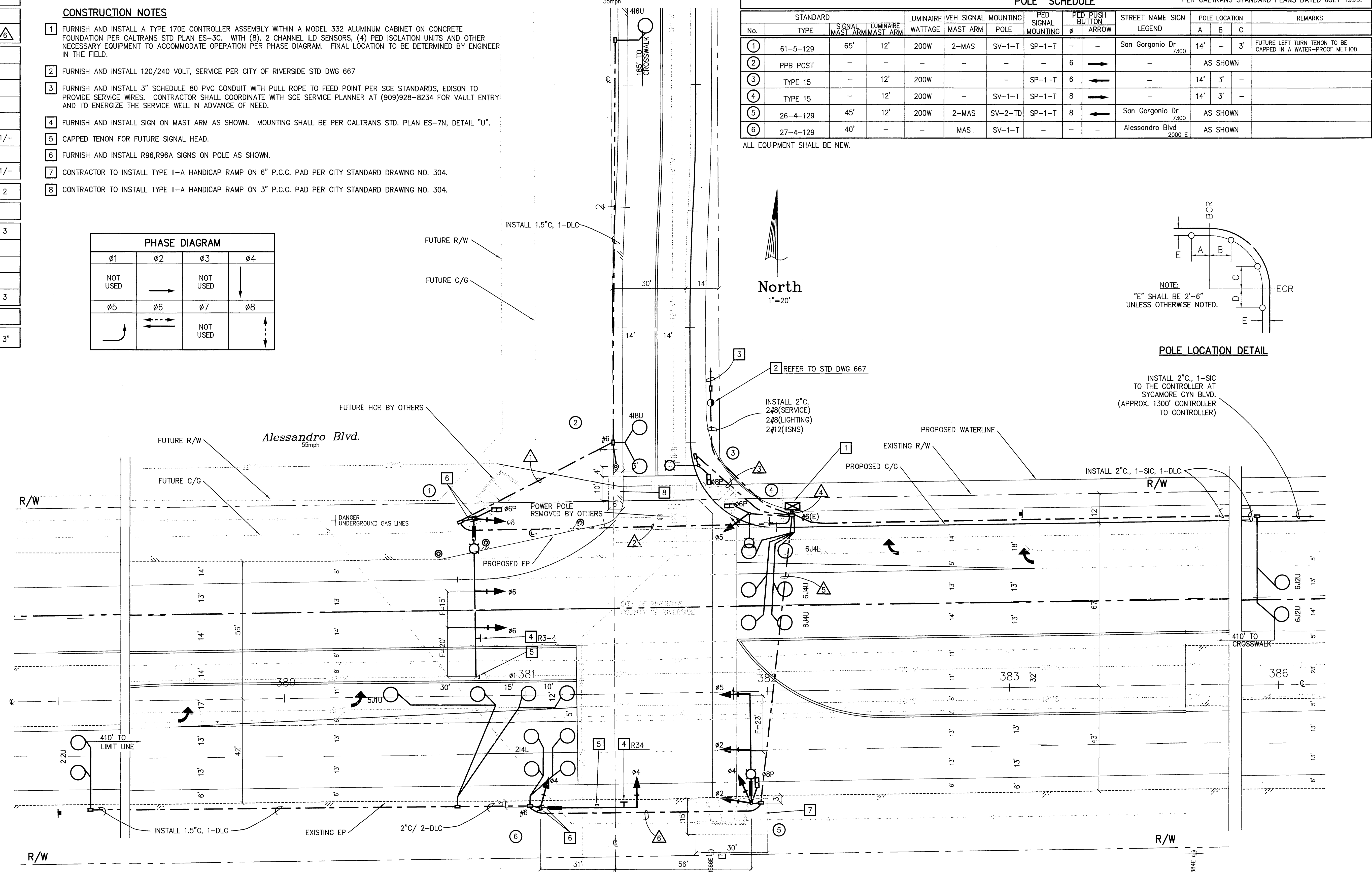
- FURNISH AND INSTALL A TYPE 170E CONTROLLER ASSEMBLY WITHIN A MODEL 332 ALUMINUM CABINET ON CONCRETE FOUNDATION PER CALTRANS STD PLAN ES-3C. WITH (8), 2 CHANNEL ILD SENSORS, (4) PED ISOLATION UNITS AND OTHER NECESSARY EQUIPMENT TO ACCOMMODATE OPERATION PER PHASE DIAGRAM. FINAL LOCATION TO BE DETERMINED BY ENGINEER IN THE FIELD.
- FURNISH AND INSTALL 120/240 VOLT, SERVICE PER CITY OF RIVERSIDE STD DWG 667
- FURNISH AND INSTALL 3" SCHEDULE 80 PVC CONDUIT WITH PULL ROPE TO FEED POINT PER SCE STANDARDS, EDISON TO PROVIDE SERVICE WIRES. CONTRACTOR SHALL COORDINATE WITH SCE SERVICE PLANNER AT (909)928-8234 FOR VAULT ENTRY AND TO ENERGIZE THE SERVICE WELL IN ADVANCE OF NEED.
- FURNISH AND INSTALL SIGN ON MAST ARM AS SHOWN. MOUNTING SHALL BE PER CALTRANS STD. PLAN ES-7N, DETAIL "U".
- CAPPED TENON FOR FUTURE SIGNAL HEAD.
- FURNISH AND INSTALL R96,R96A SIGNS ON POLE AS SHOWN.
- CONTRACTOR TO INSTALL TYPE II-A HANDICAP RAMP ON 6" P.C.C. PAD PER CITY STANDARD DRAWING NO. 304.
- CONTRACTOR TO INSTALL TYPE II-A HANDICAP RAMP ON 3" P.C.C. PAD PER CITY STANDARD DRAWING NO. 304.



**GENERAL NOTES**

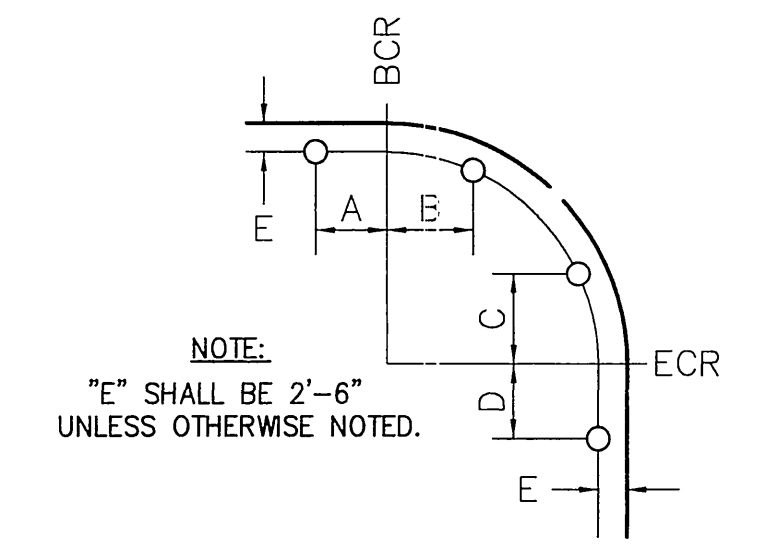
- TRAFFIC SIGNALS AND LIGHTING SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS, SECTION 86, AND STANDARD PLANS DATED JULY, 1999.
- LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND SHALL VERIFY ALL CONDITIONS ON THE JOB SITE. FOUNDATIONS SHALL BE HAND DUG UNTIL CLEAR OF ALL OBSTRUCTIONS. CONTRACTOR SHALL TELEPHONE UNDERGROUND SERVICE ALERT (USA) AT 800-227-2600, FOR MARKING OF UTILITIES PRIOR TO ANY WORK. POT HOLING REQUIRED FOR UTILITIES SHOWN OR NOT SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND THE COSTS FOR SAME SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR TRAFFIC SIGNALS AND LIGHTING.
- NEW PULLBOXES SHALL BE #5, AND NEW CONDUIT SHALL BE RIGID METAL, UNLESS INDICATED OTHERWISE ON PLANS.
- DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
- TYPICAL DETECTOR LOOP SPACING: 10', 15', AND 30' WHERE APPLICABLE. CONTRACTOR SHALL OBTAIN APPROVAL FOR ALL EQUIPMENT LOCATIONS PRIOR TO PLACEMENT. CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL TRAFFIC STRIPING PRIOR TO DETERMINING LOOP DETECTOR LOCATIONS.
- EXISTING STREET LIGHTING SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL NEW TRAFFIC SIGNAL SAFETY LIGHTING IS OPERATIONAL.
- ALL NEW TRAFFIC SIGNAL EQUIPMENT, LOOPS, AND CONDUCTORS SHALL BE INSTALLED PER THIS PLAN, AND THE SPECIAL PROVISIONS.
- THE INTERSECTION SHALL BE RESTRIPTED PER THE STRIPING PLAN XL-463 PRIOR TO OPERATION OF THE TRAFFIC SIGNALS. ANY EXISTING TRAFFIC CONTROLS OR MARKINGS IN CONFLICT WITH THE STRIPING PLAN OR THE TRAFFIC SIGNAL PLAN, INCLUDING STOP BARS, STOP SIGNS, AND LEGENDS, SHALL BE REMOVED, BY THE CONTRACTOR, BY WET SANDBLASTING.
- THIS TRAFFIC SIGNAL WORK REQUIRES A "STREET OPENING PERMIT" OBTAINED AT THE PUBLIC WORKS DEPARTMENT'S COUNTER ON THE THIRD FLOOR OF CITY HALL AND SECOND FLOOR OF THE COUNTY OF RIVERSIDE, PERMIT SECTION COUNTER.
- CONTACT TRAFFIC SIGNAL MAINTENANCE (909-351-6096) 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION OF THE WORK PERFORMED. INSPECTION FOR TRAFFIC SIGNAL WORK SHALL BE AT THE RATE OF \$5.00 PER HOUR.
- THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THESE PLANS FOR APPROVAL BY THE CITY TRAFFIC ENGINEER.

**San Gorgonio Drive**



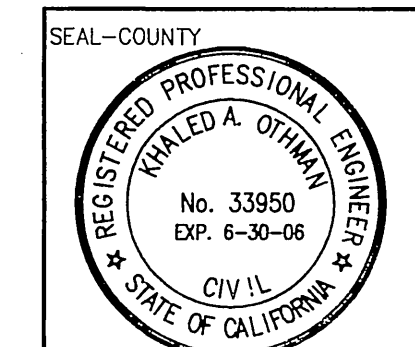
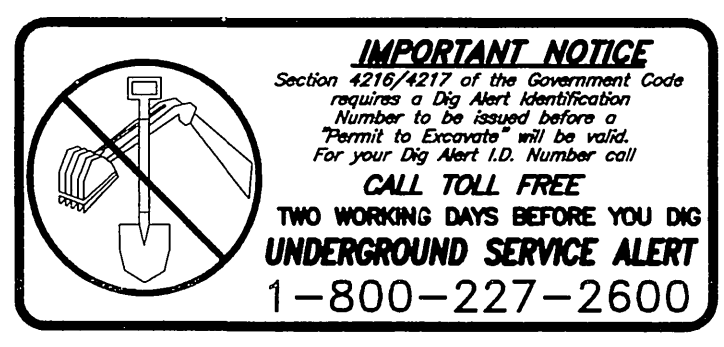
POLE SCHEDULE										PER CALTRANS STANDARD PLANS DATED JULY 1999.			
No.	STANDARD TYPE	SIGNAL MAST	LUMINAIRE MAST ARM	LUMINAIRE WATTAGE	VEH SIGNAL MAST ARM	MOUNTING POLE	PED SIGNAL MOUNTING	PED PUSH BUTTON	STREET NAME SIGN LEGEND	POLE LOCATION			REMARKS
										A	B	C	
1	61-5-129	65'	12'	200W	2-MAS	SV-1-T	SP-1-T	-	San Gorgonio Dr 7300	14'	-	3'	FUTURE LEFT TURN TENON TO BE CAPPED IN A WATER-PROOF METHOD
2	PPB POST	-	-	-	-	-	-	6	-	-	-	-	AS SHOWN
3	TYPE 15	-	12'	200W	-	-	SP-1-T	6	-	14'	3'	-	
4	TYPE 15	-	12'	200W	-	SV-1-T	SP-1-T	8	-	14'	3'	-	
5	26-4-129	45'	12'	200W	2-MAS	SV-2-TD	SP-1-T	8	San Gorgonio Dr 7300	-	-	-	AS SHOWN
6	27-4-129	40'	-	-	MAS	SV-1-T	-	-	Alessandro Blvd 2000 E	-	-	-	AS SHOWN

ALL EQUIPMENT SHALL BE NEW.

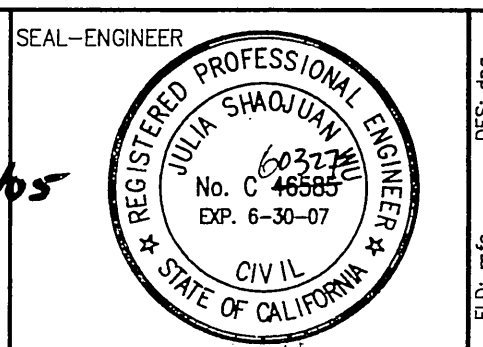


**POLE LOCATION DETAIL**

INSTALL 2\"/>



COUNTY OF RIVERSIDE  
**TRANSPORTATION DEPARTMENT**  
 APPROVED BY:  
*Khalid A. Othman* 9/18/05  
 KHALED A. OTHMAN, P.E.  
 R.C.E. 33950  
 DATE 9/16/05



PLANS DESIGNED BY:  
*Julia Shaughnessy* 7/8/05  
 DATE 7/8/05  
**Katz, Okitsu & Associates**  
 Traffic Engineers and Transportation Planners  
 685 E. CARNEGIE DRIVE, SUITE 125  
 SAN BERNARDINO, CA 92408  
 Tel: 909.890.9693 Fax: 909.890.9694  
 www.katzokitsu.com

DESIGNED BY	DRAWN BY	CHECKED BY
<i>Julia Shaughnessy</i>		

**CITY OF RIVERSIDE, CALIFORNIA**  
**DEPARTMENT OF PUBLIC WORKS**  
 APPROVED BY: *[Signature]*  
 PRINCIPAL ENGINEER  
 TRAFFIC DIVISION  
 DATE: 8/10/05

**TRAFFIC SIGNAL INSTALLATION PLAN**  
 MS 4016 (PM 24754) I.P. 050046  
**ALESSANDRO BLVD.**  
 AT  
**SAN GORGONIO ST.**  
 1" = 20'

ACCT. NO. XXXX-XXXXXX-XXXXXX  
**X-499**  
 SHEET 1 OF 1  
 FILE NAME

CONDUCTOR SCHEDULE						
AWG	POLE	RUNS				
		1	2	3	4	5
12c C A B L E	1		1/-		1/-	
	2	-/1	-/1		-/1	
	3			1/1	1/1	
	4				1/1	
	5				1/1	1/1
	6				1/-	1/-
TOTAL		-/1	1/1	1/1	5/4	2/1
#12	I.I.S.N.S.		2			2
#10	LUMINAIRES		2	2		2
LOOP DET. CABLE 2-#12 TYPE B	#1 DLC				1	
	#2 DLC				3	3
	#4 DLC	2	2		2	
	#6 DLC				3	
	TOTAL	2	2		9	3
6 PR.#19	INTERCONNECT				1	
CONDUIT SIZE		3"	3"	3"	3"	2-3"

ALL CONDUITS AND CONDUCTORS SHALL BE NEW.

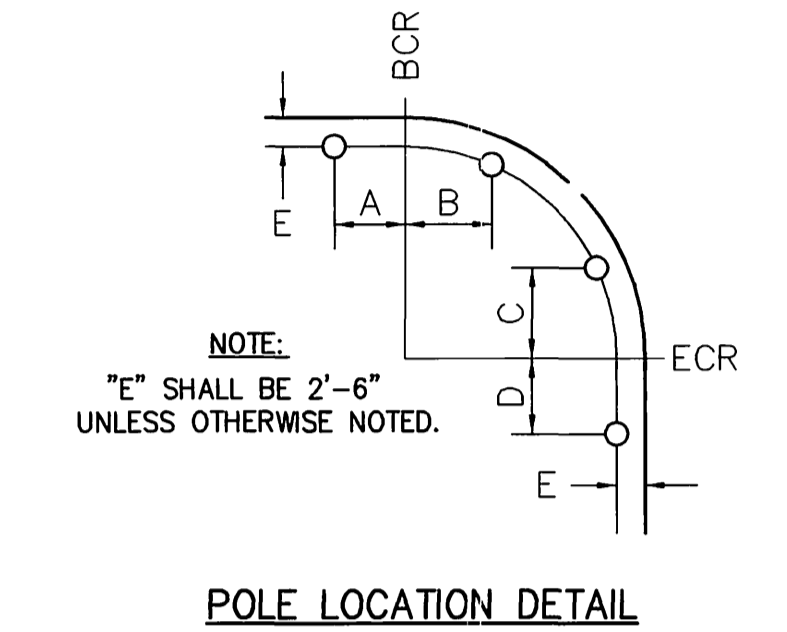
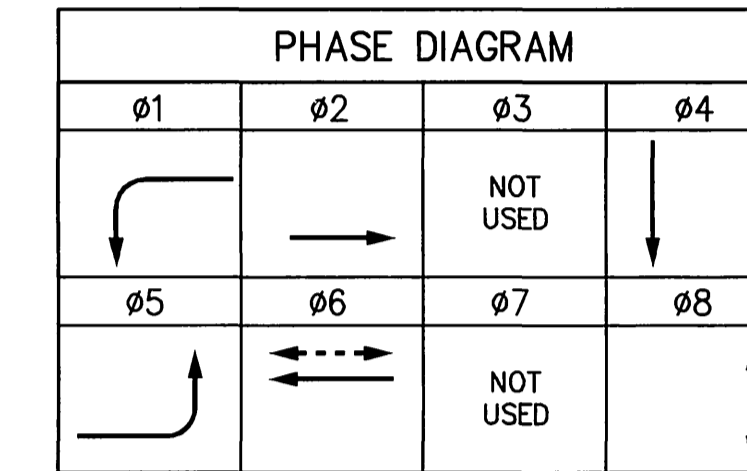
**GENERAL NOTES**

- TRAFFIC SIGNALS AND LIGHTING SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS, SECTION 86, AND STANDARD PLANS DATED JULY, 1999.
- LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND SHALL VERIFY ALL CONDITIONS ON THE JOB SITE. FOUNDATIONS SHALL BE HAND DUG UNTIL CLEAR OF ALL OBSTRUCTIONS. CONTRACTOR SHALL TELEPHONE UNDERGROUND SERVICE ALERT (USA) AT 800-227-2600, FOR MARKING OF UTILITIES PRIOR TO ANY WORK. POT HOLING REQUIRED FOR UTILITIES SHOWN OR NOT SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND THE COSTS FOR SAME SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR TRAFFIC SIGNALS AND LIGHTING.
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- DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
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- CONTACT TRAFFIC SIGNAL MAINTENANCE (909-351-6096) 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION OF THE WORK PERFORMED. INSPECTION FOR TRAFFIC SIGNAL WORK SHALL BE AT THE RATE OF \$55.00 PER HOUR.
- THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THESE PLANS FOR APPROVAL BY THE CITY TRAFFIC ENGINEER.

**San Gorgonio Drive**

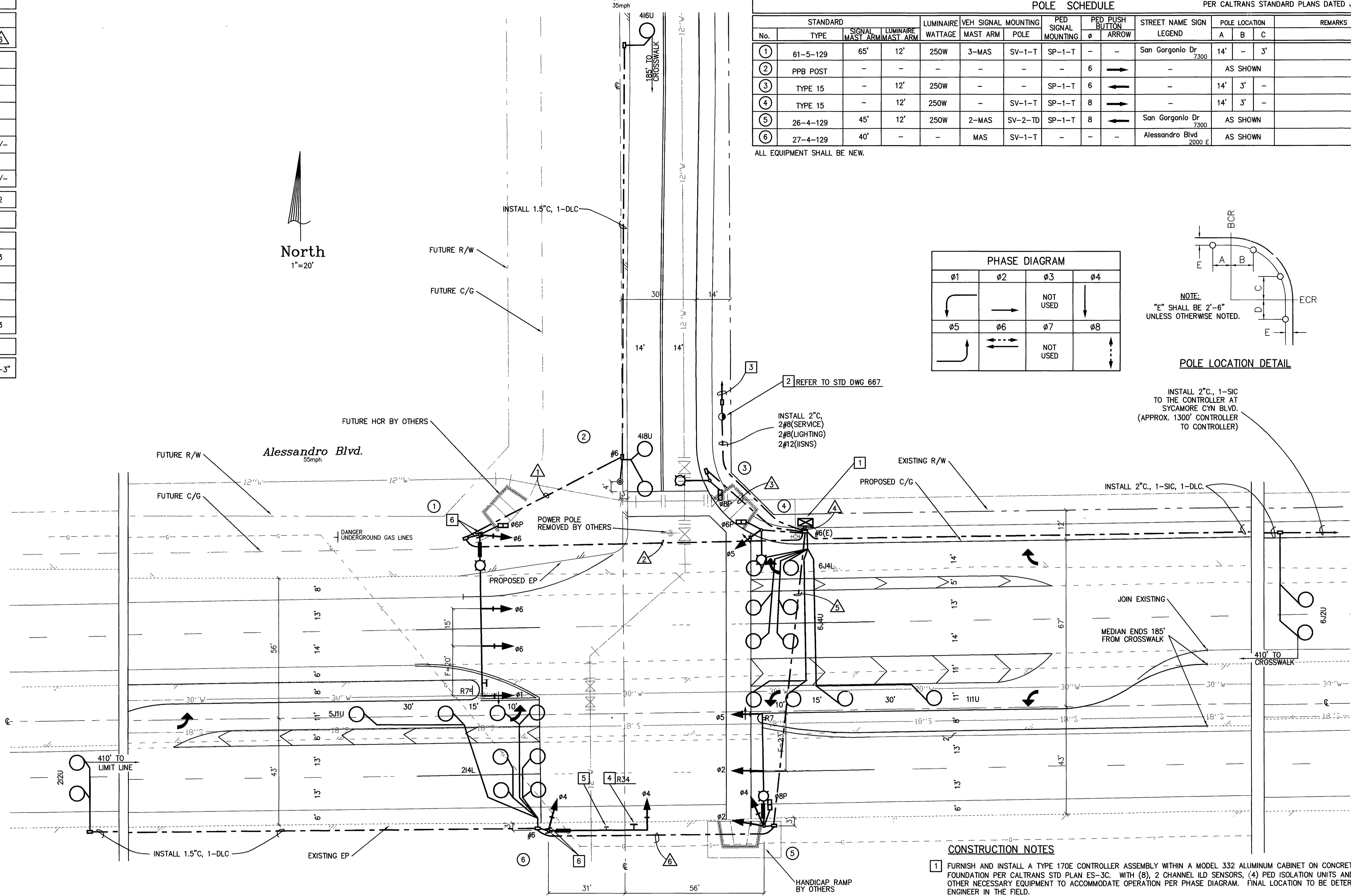
POLE SCHEDULE											PER CALTRANS STANDARD PLANS DATED JULY 1999.		
No.	STANDARD TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM	LUMINAIRE WATTAGE	VEH SIGNAL MAST ARM	MOUNTING POLE	PED SIGNAL MOUNTING	PED PUSH BUTTON	STREET NAME SIGN LEGEND	POLE LOCATION			REMARKS
										A	B	C	
1	61-5-129	65'	12'	250W	3-MAS	SV-1-T	SP-1-T	-	San Gorgonio Dr 7300	14'	-	3'	
2	PPB POST	-	-	-	-	-	-	6	-	-	-	-	AS SHOWN
3	TYPE 15	-	12'	250W	-	-	SP-1-T	6	-	14'	3'	-	
4	TYPE 15	-	12'	250W	-	SV-1-T	SP-1-T	8	-	14'	3'	-	
5	26-4-129	45'	12'	250W	2-MAS	SV-2-TD	SP-1-T	8	San Gorgonio Dr 7300	-	-	-	AS SHOWN
6	27-4-129	40'	-	-	MAS	SV-1-T	-	-	Alessandro Blvd 2000 E	-	-	-	AS SHOWN

ALL EQUIPMENT SHALL BE NEW.



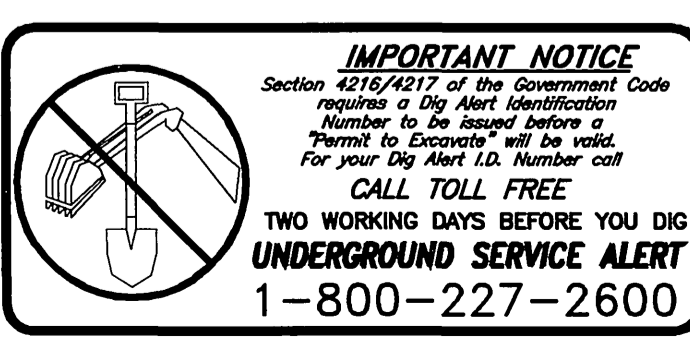
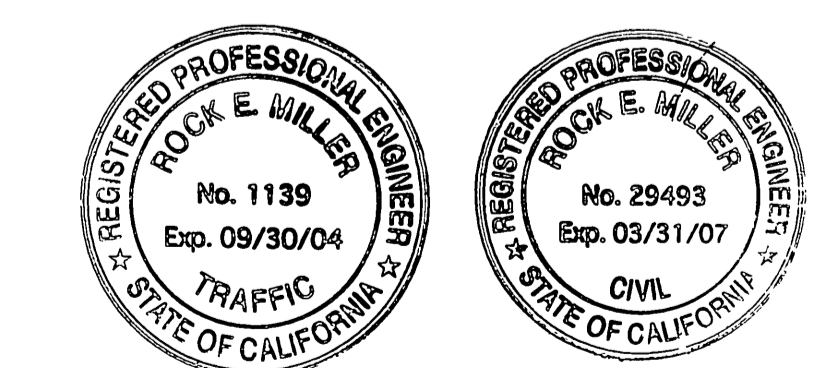
NOTE: "E" SHALL BE 2'-6" UNLESS OTHERWISE NOTED.

INSTALL 2"C, 1-SIC TO THE CONTROLLER AT SYCAMORE CYN BLVD. (APPROX. 1300' CONTROLLER TO CONTROLLER)



**CONSTRUCTION NOTES**

- FURNISH AND INSTALL A TYPE 170E CONTROLLER ASSEMBLY WITHIN A MODEL 332 ALUMINUM CABINET ON CONCRETE FOUNDATION PER CALTRANS STD PLAN ES-3C. WITH (3) 2 CHANNEL ILD SENSORS, (4) PED ISOLATION UNITS AND TS AND OTHER NECESSARY EQUIPMENT TO ACCOMMODATE OPERATION PER PHASE DIAGRAM. FINAL LOCATION TO BE DETERMINED BY ENGINEER IN THE FIELD.
- FURNISH AND INSTALL 120/240 VOLT, SERVICE PER CITY OF RIVERSIDE STD DWG 667
- FURNISH AND INSTALL 3" SCHEDULE 80 PVC CONDUIT WITH PULL ROPE TO FEED POINT PER SCE STANDARDS, EDISON TO PROVIDE SERVICE WIRES. CONTRACTOR SHALL COORDINATE WITH SCE SERVICE PLANNER AT (909)928-8234 FOR VAULT ENTRY AND TO ENERGIZE THE SERVICE WELL IN ADVANCE OF NEED.
- FURNISH AND INSTALL SIGN ON MAST ARM AS SHOWN. MOUNTING SHALL BE PER CALTRANS STD. PLAN ES-7N, DETAIL "U".
- CAPPED TENON FOR FUTURE SIGNAL HEAD.
- FURNISH AND INSTALL R96,R96A SIGNS ON POLE AS SHOWN.



PLANS DESIGNED BY: <i>[Signature]</i> DATE:		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		TRAFFIC SIGNAL INSTALLATION		ACCT. NO. XXXX-XXXXXX-XXXXX
DESIGNED BY: <i>[Signature]</i> DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i>		APPROVED BY: <i>[Signature]</i> PRINCIPAL ENGINEER		APPROVED BY: <i>[Signature]</i> CITY ENGINEER		X-499
DESIGNED BY: <i>[Signature]</i> DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i>		DATE: 1/6/04		SCALE: 1:20		SHEET 1 OF 1
DESIGNED BY: <i>[Signature]</i> DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i>		PUBLIC UTILITIES		FILE NAME: X499.DWG		

PLANS DESIGNED BY:  
*[Signature]*  
 DATE:

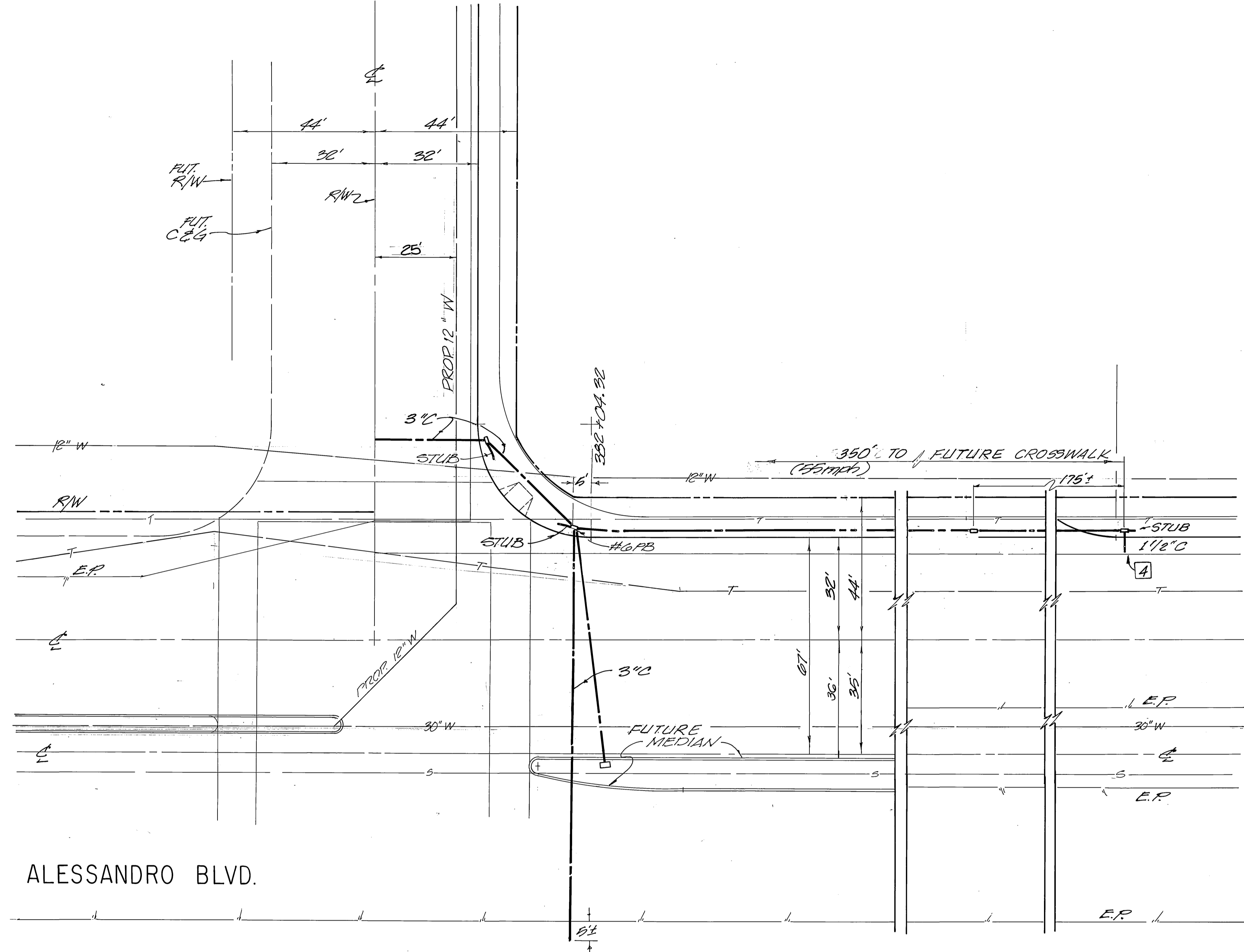
KATZ, OKITSU & ASSOCIATES  
 Traffic Engineers and Transportation Planners  
 685 E. CARNEGIE DRIVE, SUITE 125  
 SAN BERNARDINO, CA 92408  
 Tel: 909.890.9693 Fax: 909.890.9694  
 www.katzokitsu.com

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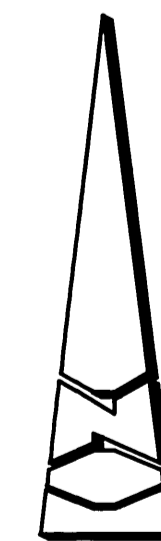
**NOTES**

1. ALL WORK AND MATERIAL SHALL CONFORM TO THE STATE STANDARD PLANS AND SPECIFICATIONS DATED JAN. 1988.
2. CONDUIT SHALL BE 2" UNLESS NOTED OTHERWISE.
3. PULLBOXES SHALL BE No. 5 UNLESS NOTED OTHERWISE. INSTALL PULLBOX MARKERS IN UNIMPROVED AREAS.
4. INSTALL CONDUIT STUB-OUTS TO EDGE OF 5' GUTTER. MARK GUTTER OR CURB FACE.
5. FUTURE POLE LOCATION. UNDERGROUND UTILITIES SHOULD KEEP CLEAR TO AVOID DAMAGE DURING SIGNAL INSTALLATION.
6. CONDUIT SHALL BE GALVANIZED RIGID STEEL.
7. TRAFFIC SIGNAL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MOST CURRENT PROVISIONS OF SECTION 86 OF THE STANDARD SPECIFICATIONS, THE STANDARD PLANS, BOTH PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), THE CONSTRUCTION PLAN(S) AND AS DIRECTED BY THE CITY TRAFFIC ENGINEER.
8. THIS TRAFFIC SIGNAL WORK REQUIRES A "STREET OPENING" PERMIT OBTAINED AT THE PUBLIC WORKS COUNTER ON THE THIRD FLOOR OF CITY HALL.
9. CONTACT THE TRAFFIC SIGNAL MAINTENANCE (714) 351-6096 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION OF THE WORK PERFORMED. INSPECTION FEE FOR TRAFFIC SIGNAL MODIFICATIONS WILL BE AT THE RATE OF \$29.35 PER HOUR.
10. REFERENCE IS MADE TO PLAN NO.R-3234 FOR THE ASSOCIATED STREET IMPROVEMENT PROJECT.
11. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THESE PLANS FOR APPROVAL BY THE CITY.
12. DEPTH OF BURIED CABLE DOES NOT EXCEED TWO FEET.

**SAN GORGONIO DR.**



**ALESSANDRO BLVD.**



1 1/2 0 1 2  
3 inches on original drawing  
SCALE: 1"=20'



#900050  
**WESTON PRINGLE & ASSOCIATES**  
 TRAFFIC AND TRANSPORTATION ENGINEERING  
 680 LANGSDORF DRIVE SUITE 222 FULLERTON, CA. (714) 871-2951  
*Weston S. Pringle, Jr.* RCE 16828 11-1-90  
 WESTON S. PRINGLE, JR. RCE 16828 DATE

G.T.E. CALIFORNIA INC. <i>Ray</i> APPROVED BY DATE: 6-11-91	REVIEWED BY: WESTERN MUNICIPAL WATER DISTRICT SHEET <i>1</i> THRU <i>1</i> PRINCIPAL ENGINEER R.C.E. 21643 DATE: 6/26/91	APPROVED CITY TRAFFIC ENGINEER DATE:	CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT APPROVED BY DATE BY PRINCIPAL ENGINEER 9/22/91 PARK DEPARTMENT TRAFFIC DIVISION 9/22/91 CHIEF P. W. ENGINEER 10/24/91 UTILITIES ENGINEER 10/23/91	TRAFFIC SIGNAL UNDERGROUND ALESSANDRO BLVD. PARCEL MAP 24754 HORIZ. SCALE: 1"=20' ACCOUNT No. <b>X-499</b> SHEET 1 OF 1 88-279-06
-------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------