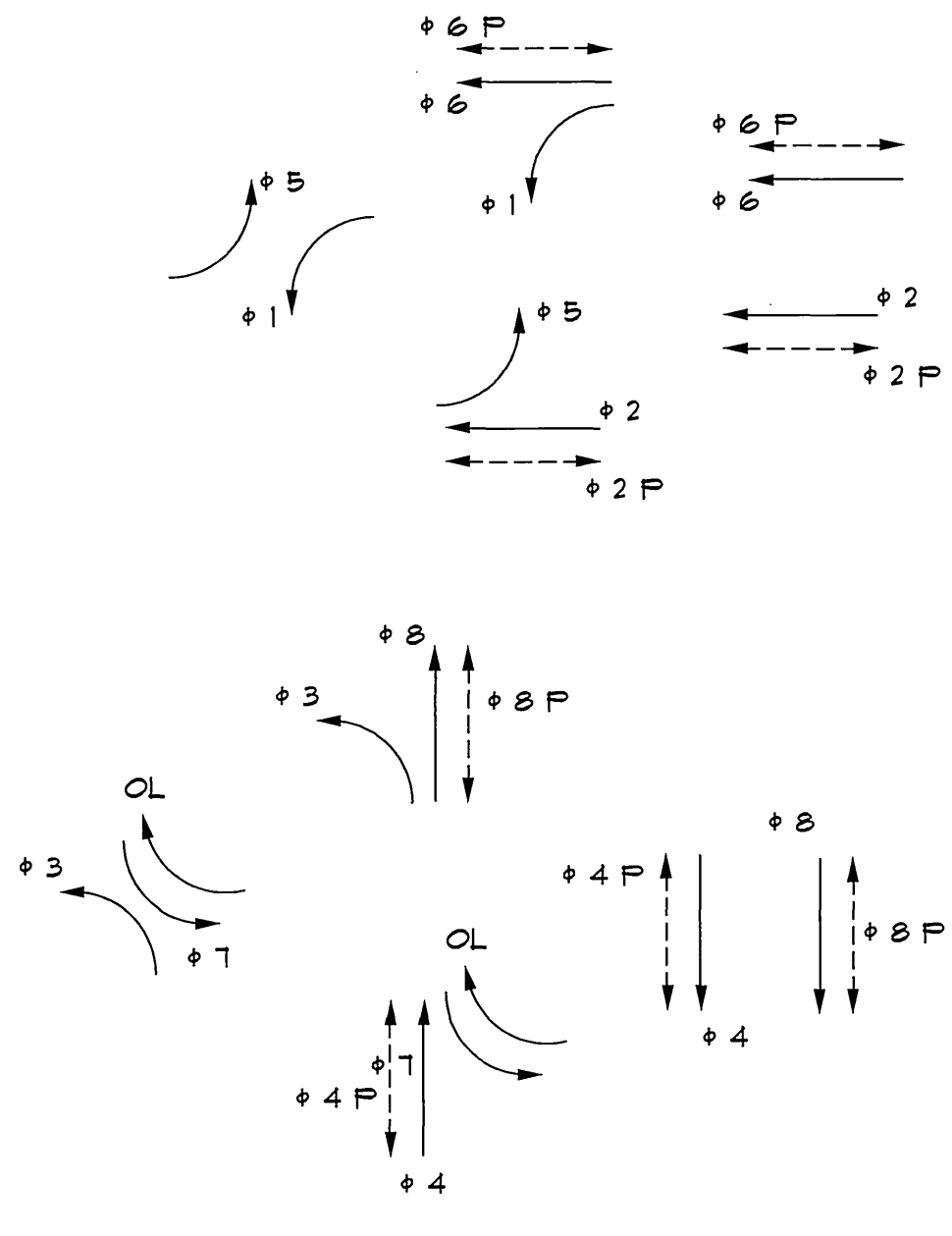


CONDUCTOR SCHEDULE											
AWG	CIRCUIT	1	2	3	4	5	6	7	8	9	10
*14	φ 1	3	3	3	3	3	-	-	-	-	-
	φ 2	6	3	3	3	3	-	3	3	3	-
	φ 3 (N)	6	3	-	-	-	-	-	-	-	-
	φ 4	3	3	3	3	3	-	-	-	-	-
	φ 5	3	-	-	-	-	3	3	3	-	-
	φ 6 (OL)	8	5	5	-	-	-	3	-	-	-
	φ 7	6	3	3	3	3	3	3	3	3	3
	φ 8 (N)	6	-	-	-	-	-	3	3	3	3
	φ 2P	4	2	2	2	2	-	2	2	2	-
	φ 4P	2	2	2	2	2	-	-	-	-	-
	φ 6P	4	2	2	-	-	-	2	-	-	-
	φ 8P	4	-	-	-	-	-	2	2	2	2
	φ 2FFB	2	1	1	1	1	1	1	1	1	-
	φ 4FFB	1	1	1	1	1	-	-	-	-	-
φ 6FFB	2	1	-	-	-	-	-	-	-	-	
φ 8FFB	1	-	-	-	-	-	1	1	1	-	
FFB COMMON	2	1	1	1	1	1	1	1	1	1	
SPARES	6	3	3	3	3	3	3	3	3	3	
TOTAL	67	31	21	22	22	13	28	22	22	13	
*12	I.I.S.N.S.	-	2	2	2	2	2	2	2	-	
*10	SIGNAL COMMON	2	1	1	1	1	1	1	1	1	
*8	LUMINAIRE	-	2	2	2	2	2	2	2	-	
*6	SIGNAL SERVICE	2	2	-	-	-	-	-	-	-	
DETECTOR LOOP CABLE	φ 1	2	-	-	-	-	2	2	-	-	
	φ 2	3	3	3	3	3	-	-	-	-	
	φ 3 (N)	2	-	1	-	-	1	2	2	2	
	φ 4	2	2	-	-	-	-	-	-	-	
	φ 5	2	2	2	2	-	-	-	-	-	
	φ 6	4	-	-	-	-	-	4	-	-	
	φ 7	3	3	-	-	-	-	-	-	-	
	φ 8 (N)	3	-	-	-	-	-	3	3	3	
TOTAL	22	10	5	5	3	-	15	7	5	5	
6pri9	INTERCONNECT	2	1	1	-	-	1	-	-	-	
CONDUIT SIZE		2-3 1/2" 3" 3" 3" 2" 3" 3" 3" 2"									

SENSOR SCHEDULE				
UNIT	CHANNEL DESIGNATION	LOOP NO. OF LOOPS	FEATURES	
1	1	212U	3	SS, CH
	2	416U	2	SS, CH
2	1	6J2U	4	SS, CH
	2	6J2L	2	CD
3	1	5J1U	3	SS
	2	5J1L	1	SS
4	1	214U	2	DD
	2	214L	4	DD
5	1	111U	3	SS
	2	911U	1	SS
6	1	6J4U	4	DD
	2	6J4L	4	DD
7	1	7J5U	3	SS
	2	7J5L	3	SS
8	1	7J9L	2	SS
	2	418U	4	DD
9	1	315U	4	SS
	2	319L	1	SS
10	1	8J6U	3	SS
	2	8J6L	3	SS

SS = SYSTEM SAMPLING - NO OUTPUT TO PHASE  
 CH = INTEGRAL CALL HOLD  
 CD = CALL DELAY  
 DD = DETECTOR DISCONNECT  
 DETECTORS SHALL BE 2-CHANNEL RACK MOUNTED

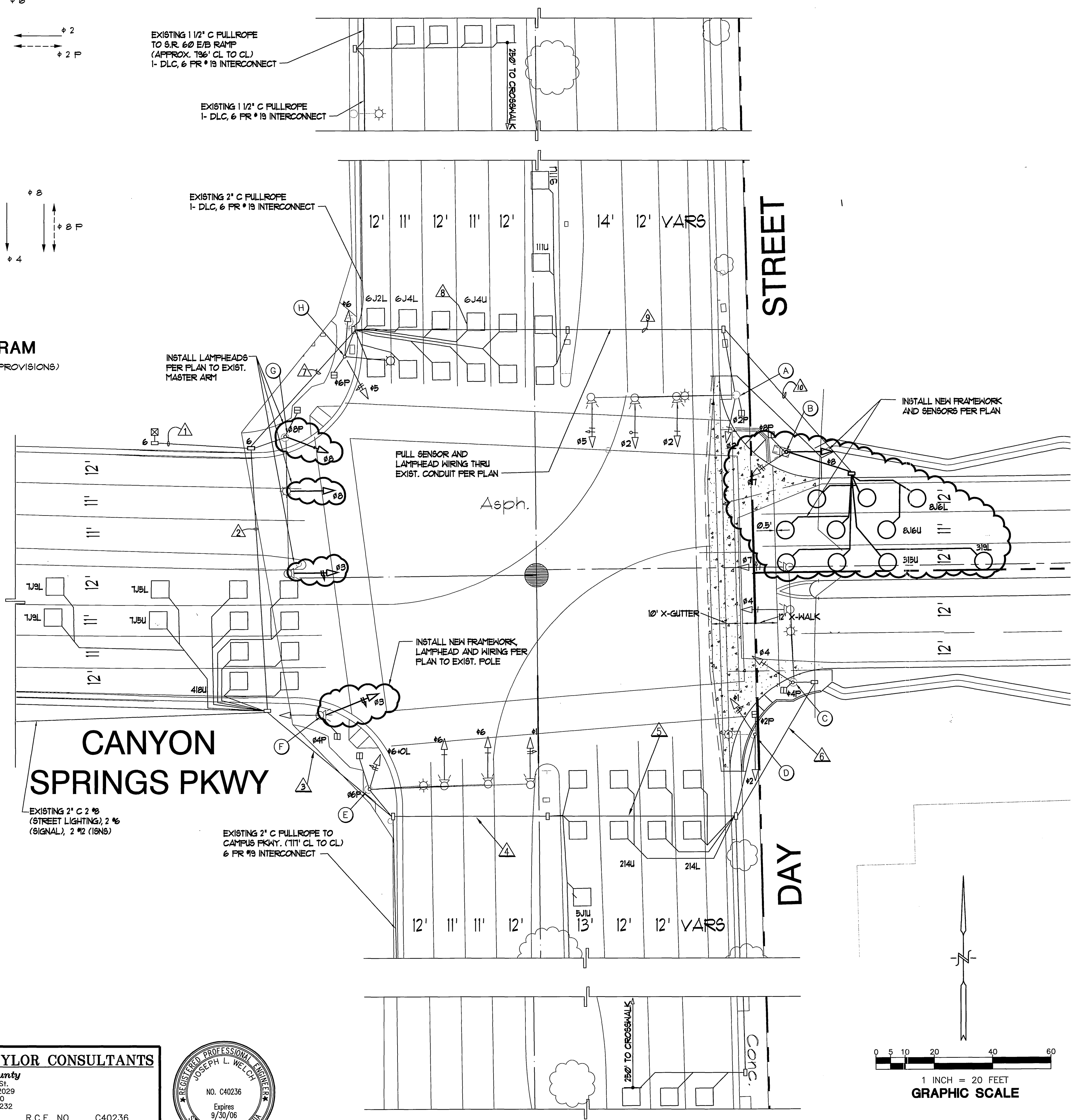


**PHASE DIAGRAM**  
 OL = OVERLAP (SEE SPECIAL PROVISIONS)

POLE SCHEDULE												
NO.	DESCRIPTION	STANDARD		LUMINAIRE	ST. NAME SIGN	SIGNAL MOUNTING			PED. PUSH BUTTON		REMARKS	
		SIG. M.A.	LUM. M.A.			VEHICLE	FED.	PHASE	QUAD	ARROW		
(A)	25-9-80	55'	15'	250W HFSV	CANYON SPRINGS PKWY	SV-1-T	3MAS	SP-1-T	8P	S	←	-
(B)	1A(10')	-	-	-	-	TV-2-T(N)	-	SP-1-T	2P	W	→	-
(C)	26-4-80	40'	15'	250W HFSV	DAY ST.	SV-1-T	2MAS	SP-1-T	2P	W	←	-
(D)	15	-	15'	250W HFSV	-	SV-2-T	-	SP-1-T	4P	N	→	-
(E)	25-9-80	55'	15'	250W HFSV	CANYON SPRINGS PKWY	SV-1-T	3MAS	SP-1-T	4P	N	←	-
(F)	1A(10')	-	-	-	-	TV-2-T(N)	-	SP-1-T	6P	E	→	-
(G)	26-4-80	40'	15'	250W HFSV	DAY ST.	SV-1-T(N)	2MAS(N)	SP-1-T	6P	E	←	-
(H)	15	-	15'	250W HFSV	-	SV-2-T	-	SP-1-T	8P	S	→	-

ALL EQUIPMENT IS EXISTING EXCEPT AS NOTED. (N) = NEW

- NOTES:**
- 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 PLANS, THE CONTRACT SPECIAL PROVISIONS AND AS DIRECTED BY THE CITY TRAFFIC ENGINEER.
  - CONTACT TRAFFIC SIGNAL MAINTENANCE (909-351-6036) 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 CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (1-800-221-2600) 48 HOURS PRIOR TO BEGINNING EXCAVATION.
  - UTILITIES SHOWN ON THESE PLANS ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES, PUBLIC OR PRIVATE, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND FACILITIES DAMAGED BY HIS OPERATION.
  - 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.
  - THE CONTRACTOR SHALL RESTORE OR REPLACE IN KIND ALL EXISTING IMPROVEMENTS DISTURBED DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, TRAFFIC SIGNS, PAVEMENT DELINEATION AND LANDSCAPING.
  - ALL EQUIPMENT AND LOOP LOCATIONS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER OR HIS INSPECTOR PRIOR TO INSTALLATION BY THE CONTRACTOR.
  - ALL DETECTOR LOOPS SHALL BE TYPE E WITH 10' AND 15' SPACING IN THE DIRECTION OF TRAVEL UNLESS SHOWN OTHERWISE.
  - ALL DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE CITY ENGINEER'S INSPECTOR.
  - CONDUCTORS FOR DETECTOR LOOPS SHALL BE TYPE 2.
  - DETECTOR LOOP LEAD-IN CABLE SHALL BE TYPE A OR B. MIXING OF TYPE SHALL NOT BE ALLOWED. THE ENDS THAT TERMINATE IN THE CONTROLLER CABINET SHALL HAVE SPADE TERMINALS THAT HAVE BEEN CRIMPED AND SOLDERED.
  - THE ENDS OF THE DETECTOR LOOP LEAD-IN CABLE IN THE CONTROLLER CABINET SHALL BE IDENTIFIED WITH COLOR CODED VINYL PLASTIC ELECTRICAL TAPE ACCORDING TO THE INSPECTOR'S INSTRUCTIONS.
  - SPLICING OF TRAFFIC SIGNAL CONDUCTORS IS NOT PERMITTED.
  - VEHICLE HEAD INDICATIONS SHALL BE L.E.D. TYPE 12" (300mm) WITH BACKPLATES. THE HOUSING BACKPLATES AND VISORS SHALL BE METAL.
  - PEDESTRIANS INDICATIONS SHALL BE L.E.D. TYPE.
  - ALL PAVEMENT MARKINGS AND SIGNING REQUIREMENTS (REMOVALS OR INSTALLATIONS) SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO SIGNAL TURN-ON.
  - ALL SALVAGED MATERIALS SHALL BE DELIVERED TO THE CITY YARD AT 8035 LINCOLN AVENUE AS DIRECTED BY THE INSPECTOR.
  - EXISTING SIGNAL EQUIPMENT TO BE REUSED SHALL BE REFURBISHED AND REPAINTED PER SECTION 82-2.16 OF CALTRANS STANDARD SPECIFICATIONS.



**ANTHONY-TAYLOR CONSULTANTS**  
 San Diego County  
 304 Enterprise St.  
 Escondido, CA 92029  
 (760) 738-8800  
 Fax (760) 738-8232

PREPARED BY: *Joseph L. Welch*  
 JOSEPH L. WELCH  
 R.C.E. NO. C40236  
 DATE 11/12/02  
 EXP. 9/30/06



**CITY OF MORENO VALLEY**

PLANS REVIEWED BY: *[Signature]*  
 DATE: 11/19/02  
 CITY ENGINEER R.C.E. 20517 EXP. 9/30/05

INSTALL PER PLAN			
MARK	REVISIONS	APP'D DATE	
DESIGNED BY:	DRAWN BY:	CHECKED BY:	

**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT

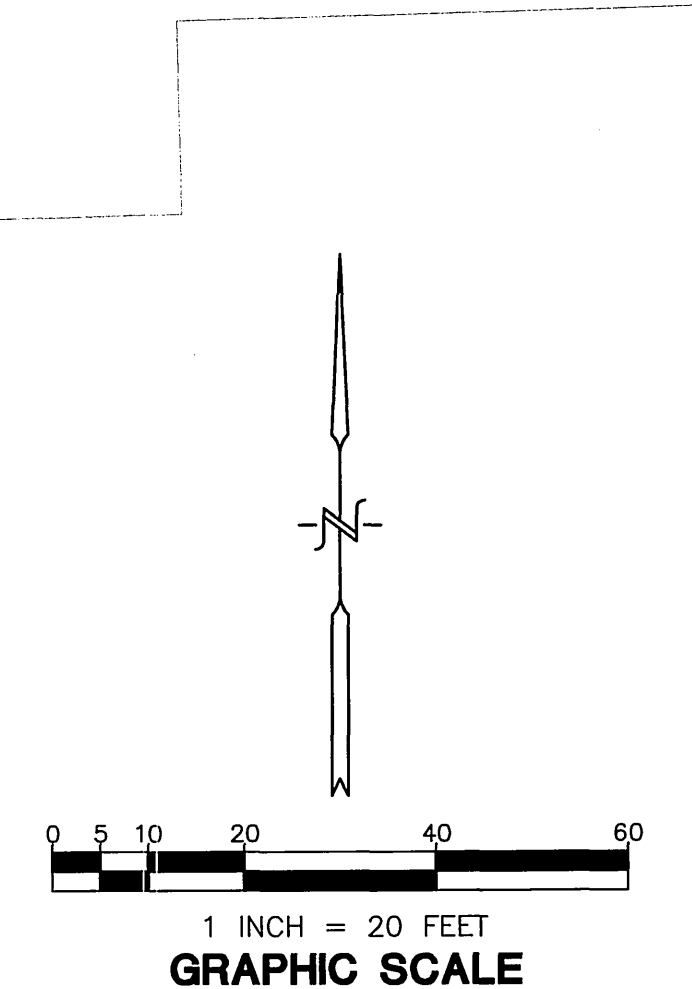
APPROVED BY: *[Signature]*  
 PRINCIPAL ENGINEER DATE 11/14/02  
 TRAFFIC DIVISION 11/14/02  
 CHIEF P.W. ENGINEER  
 INSPECTION DATE: 11/15/02

**TRAFFIC SIGNAL INSTALLATION PLAN**

DAY STREET  
 AND  
 CANYON SPRINGS PKWY.

HORIZ. SCALE: 1" = 20'  
 VERT. SCALE: 1" =

ACCOUNT NO. X-345A  
 SHEET NO. 1 OF 1

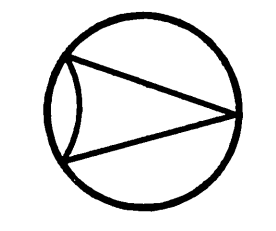


CONDUCTOR SCHEDULE											
AWG	CIRCUIT	1	2	3	4	5	6	7	8	9	10
Ø1		3	3	3	3	3					
Ø2		6	3	3	3	3					
Ø3		6	3								
Ø4		3	3	3	3	3					
Ø5		3									
Ø6 (OL)		8	5	5							
Ø7		6	3	3	3	3	3	3	3	3	
Ø8		6									
Ø2P		4	2	2	2	2	2	2	2	2	
Ø4P		2	2	2	2	2	2	2	2	2	
Ø6P		4	2	2							
Ø8P		4									
Ø2PPB		2	1	1	1	1	1	1	1	1	
Ø4PPB		1	1	1	1	1	1	1	1	1	
Ø6PPB		2	1	1	1	1	1	1	1	1	
Ø8PPB		1									
PPB COMMON		2	1	1	1	1	1	1	1	1	
SPARES		6	3	3	3	3	3	3	3	3	
TOTAL		67	31	27	22	22	13	28	22	22	13

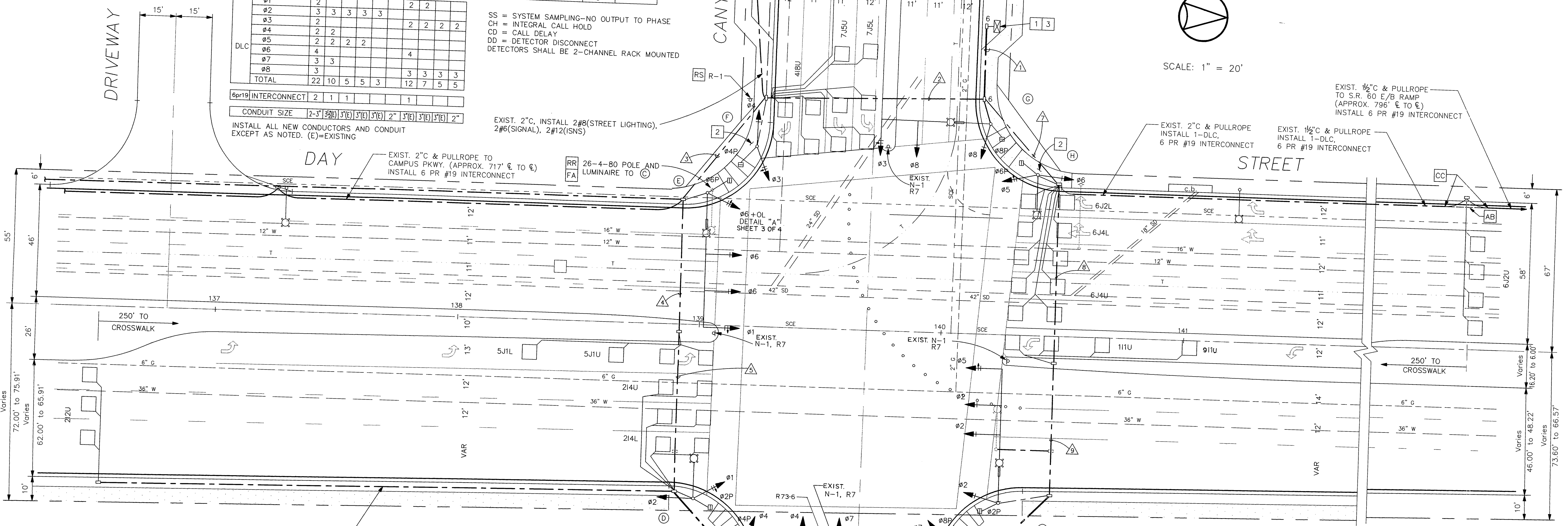
SENSOR SCHEDULE			
UNIT	CHANNEL	LOOP DESIGNATION	NO. OF LOOPS
1	1	212U	3
1	2	416U	2
2	1	6J2U	4
2	2	6J2L	2
3	1	5J1U	3
3	2	5J1L	1
4	1	214U	2
4	2	214L	4
5	1	111U	3
5	2	911U	1
6	1	6J4U	4
6	2	6J4L	4
7	1	7J5U	3
7	2	7J5L	3
8	1	7J9L	2
8	2	418U	4
9	1	315U	3
9	2	319L	1
10	1	8J8U	3
10	2	8J8L	3

POLE SCHEDULE											
NO.	DESCRIPTION	SIG	MA	LUM MA	LUMINAIRE	ST. NAME SIGN LEGEND	SIGNAL MOUNTING		PED. PHASE	PUSH BTNN	REMARKS
							VEHICLE	PED.			
Ⓐ	29-5-80	55'	15'		250W HPSV	Canyon Springs Pkwy	SV-1-T	3MAS	SP-1-T	8P	S
Ⓑ	1A (10')	-	-		-	-	TV-2-T	-	SP-1-T	2P	W
Ⓒ	26-4-80(R)	40'	15'(R)		250W HPSV(R)	Day St.	SV-1-T	2MAS	SP-1-T	4P	N
Ⓓ	15	-	15'		250W HPSV	-	SV-2-T	-	SP-1-T	2P	W
Ⓔ	29-5-80	55'	15'		250W HPSV	Canyon Springs Pkwy	SV-1-T	3MAS	SP-1-T	4P	N
Ⓕ	1A (10')	-	-		-	-	TV-2-T	-	SP-1-T	6P	E
Ⓖ	26-4-80(E)	45'	15'(E)		250W HPSV(E)	Day St.	SV-1-T	2MAS	SP-1-T	6P	E
Ⓗ	15	-	15'		250W HPSV	-	SV-2-T	-	SP-1-T	8P	S

INSTALL ALL NEW EQUIPMENT EXCEPT AS NOTED (R)=RELOCATED (E)=EXISTING



SCALE: 1" = 20'



SS = SYSTEM SAMPLING—NO OUTPUT TO PHASE  
 CH = INTEGRAL CALL HOLD  
 CD = CALL DELAY  
 DD = DETECTOR DISCONNECT  
 DETECTORS SHALL BE 2-CHANNEL RACK MOUNTED

INSTALL ALL NEW CONDUCTORS AND CONDUIT EXCEPT AS NOTED. (E)=EXISTING

EXIST. 2" C. INSTALL 2#8 (STREET LIGHTING), 2#6 (SIGNAL), 2#12 (SNS)

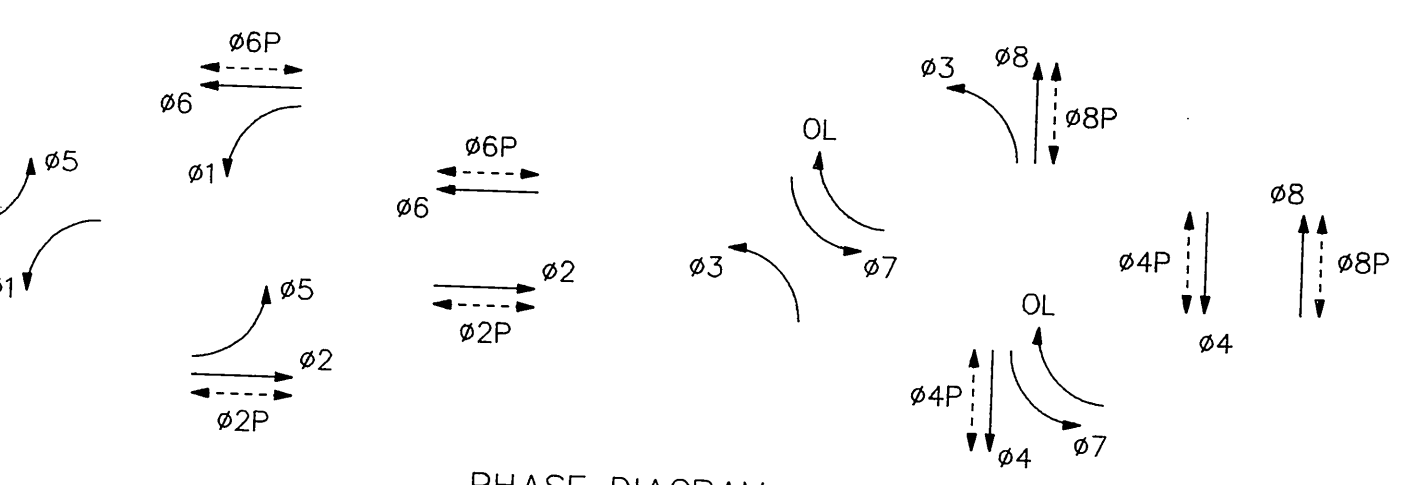
EXIST. 2" C. & PULLROPE INSTALL 1-DLC, 6 PR #19 INTERCONNECT

EXIST. 1/2" C. & PULLROPE TO S.R. 60 E/B RAMP (APPROX. 796' E TO E) INSTALL 6 PR #19 INTERCONNECT

EXIST. 1/2" C. & PULLROPE INSTALL 1-DLC, 6 PR #19 INTERCONNECT

EXIST. 2" C. & PULLROPE TO CAMPUS PKWY. (APPROX. 717' E TO E) INSTALL 6 PR #19 INTERCONNECT

RR 26-4-80 POLE AND LUMINAIRE TO Ⓒ



PHASE DIAGRAM

OL=OVERLAP (SEE SPECIAL PROVISIONS)

CONSTRUCTION NOTES

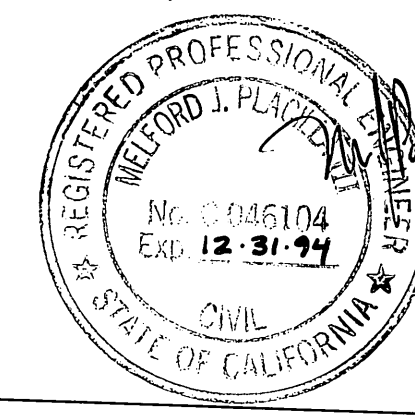
- INSTALL MODEL 170 CONTROLLER ASSEMBLY COMPLETE IN TYPE 332 CABINET.
- SIDEWALK REMOVAL FOR SIGNAL POLE AND CONDUIT INSTALLATION SHALL BE FROM SCORELINE TO SCORELINE JOINT. CONSTRUCT NEW 4" PCC PER CITY STANDARD DRAWING 325, AND NEW WHEELCHAIR RAMP PER CALTRANS STANDARD PLAN N8-B, CASE C.
- INSTALL MODEL 170 CONTROLLER ASSEMBLY TO FUNCTION AS SYSTEM MASTER IN SAME CABINET AS LOCAL CONTROLLER. SEE SPECIAL PROVISIONS.

INSTALL W41 SIGN ON EXIST. SL. POLE, LOCATION TO BE DETERMINED IN THE FIELD.

NOTES

FOR GENERAL NOTES SEE SHEET 1 OF 4.

NOTE: DIMENSIONS FOR THIS PRIVATE DRIVEWAY NOT TO SCALE. FOR SCALE REFER TO STRIPING PLAN PREPARED BY CM ENGINEERING.



**Greiner**  
 GREINER, INC.  
 5225 CANYON CREST DRIVE  
 BUILDING 200, SUITE 253  
 RIVERSIDE, CA 92507-6323  
 (714) 788-7746  
 FAX (714) 788-5002

PLANS PREPARED UNDER THE DIRECTION OF:  
*M. J. Schmitt*  
 RCE NO. C046104 DATE 2/19/92 EXPIRES 12/31/94

CITY OF MORENO VALLEY

PLANS REVIEWED BY:  
*John Fernald*  
 CIVIL ENGINEER RCE NO. 13,870 DATE 2/21/92 EXPIRES 3/31/93

CITY OF RIVERSIDE  
 PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]* DATE: 3/3/92  
 PRINCIPAL ENGINEER

TRAFFIC DIVISION: *[Signature]* DATE: 2/21/92  
 CHIEF P.W. ENGINEER

INSPECTION: *[Signature]* DATE: 3/2/92

TRAFFIC SIGNAL INSTALLATION PLAN  
 DAY STREET AND CANYON SPRINGS PKWY.

ACCOUNT NO. X-345  
 SHEET 2 OF 4

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 20'