CONDUCTOR SCHEDULE													
AWG CIRCUITS		RUNS 1	2	3	4	5	6	7	8	9	10	11	
12 CSC / 3 CSC		2/2	2/2	4/4	4/4	4/4	4/4	1/1	2/2	2/2	8/8	8/8	
LOOP LEAD-IN TYPE B	Ø1 DETECTOR			1	1	1	1				1	1	
	Ø2 DETECTOR								5	6	6	6	
	Ø4 DETECTOR						2				2	2	
	Ø5 DETECTOR									1	1	1	
	Ø6 DETECTOR			1	6	6	6				6	6	
	Ø3 DETECTOR	4	4	4	4	4	4				4	4	
	TOTAL DLC'S	4	4	6	11	11	13		5	7	20	20	
# 10	LUMINAIRE	–	2	2	2	2	2	2	2	2	4	–	
	SIGNAL COMMON	1	1	1	1	1	1	1	1	1	2	2	
	TOTAL	1	3	3	3	3	3	3	3	3	6	2	
3-#20 EVP CABLE		–	1	1	1	2	2	1	1	1	4	4	
1-12 PR #22 I.C.											1	2	
CONDUIT SIZE		3"	3"	3"	1-2" 1-3"	1-2" 1-3"	1-2" 1-3"	3"	3"	3"	2-3"	2-3"	
(N)=NEW, (E)=EXISTING		(N)	(N)	(E)	(E)	(E)	(E)	(N)	(N)	(N)	(E)	(E)	

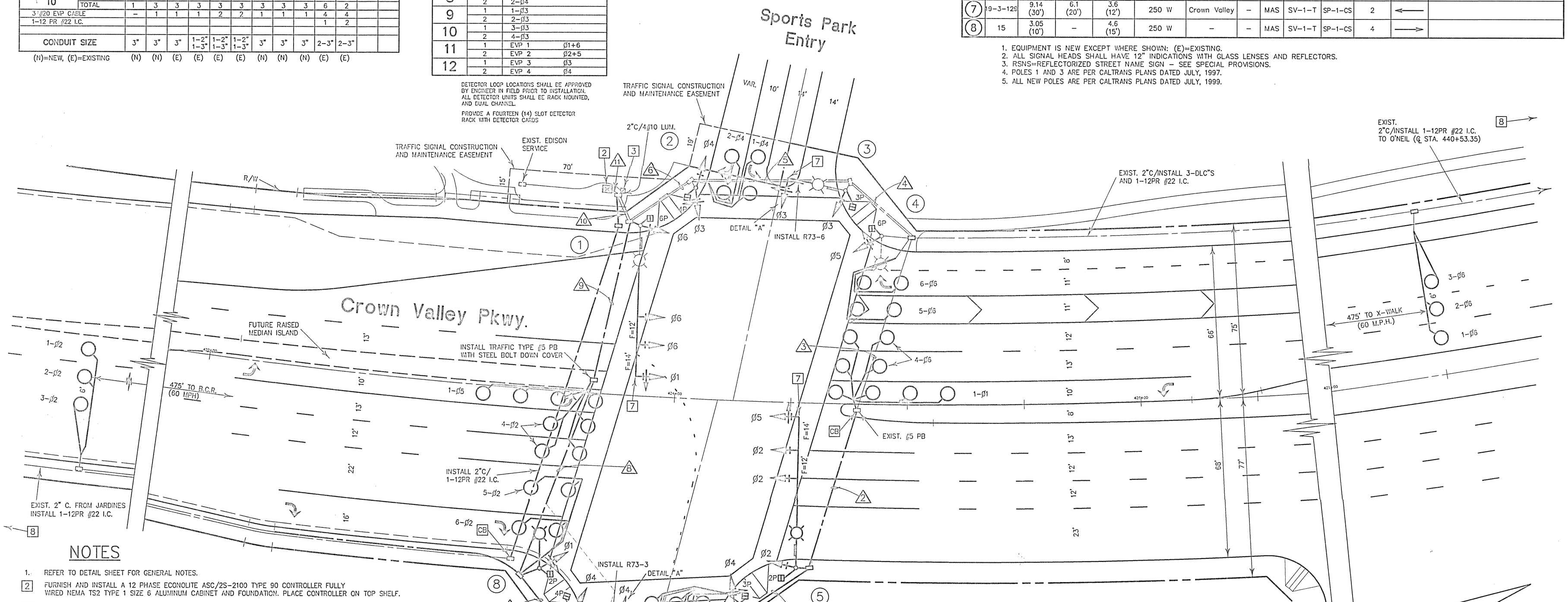
DETECTOR SCHEDULE		
SENSOR * UNIT	CHANN	LOOP DETECTORS
1	1	1-Ø5
	2	1-Ø2
2	1	2-Ø2
	2	3-Ø2
3	1	4-Ø2
	2	5-Ø2
4	1	6-Ø2
	2	1-Ø1
5	1	1-Ø6
	2	2-Ø6
6	1	3-Ø6
	2	4-Ø6
7	1	5-Ø6
	2	6-Ø6
8	1	1-Ø4
	2	2-Ø4
9	1	1-Ø3
	2	2-Ø3
10	1	3-Ø3
	2	4-Ø3
11	1	EVP 1 Ø1+6
	2	EVP 2 Ø2+5
12	1	EVP 3 Ø3
	2	EVP 4 Ø4

DETECTOR LOOP LOCATIONS SHALL BE APPROVED BY ENGINEER IN FIELD PRIOR TO INSTALLATION. ALL DETECTOR UNITS SHALL BE RACK MOUNTED, AND DUAL CHANNEL.

PROVIDE A FOURTEEN (14) SLOT DETECTOR RACK WITH DETECTOR CARDS

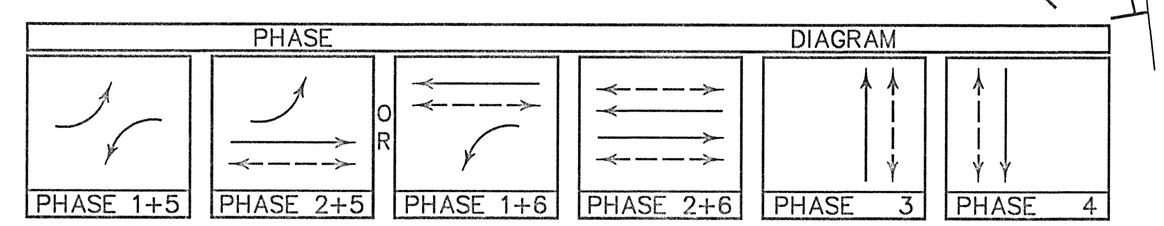
POLE SCHEDULE													
No.	STANDARD TYPE	HEIGHT	SIG.M.A.	LUM.M.A.	LUMINAIRE HPSV	R.S.N.S. LEGEND	SIGNAL MOUNTING VEHICLE		PED	PED PUSH BTN PHASE	ARROW	REMARKS
1	61-5-129 (E)	9.14 (30')	19.8 (65')	4.6 (15') (E)	250 W (E)	Sports Park *	MAS LT	MAS 2ea	SV-1-T	SP-1-CS	4	* REVERSE ARROW FOR OPPOSITE APPROACH
2	1-A	3.05 (10')	–	–	–	–	–	–	TV-2-T	SP-1-CS	6	
3	19-3-129 (E)	9.14 (30')	7.6 (25')	3.6 (12') (E)	250 W (E)	Crown Valley	–	MAS	SV-1-T	SP-1-CS	6	
4	15 (E)	9.14 (30')	–	3.6 (12') (E)	250 W (E)	–	–	–	SV-1-T	SP-1-CS	3	
5	61-5-129	9.14 (30')	19.8 (65')	4.6 (15')	250 W	Cecil Pasture *	MAS LT	MAS 2ea	SV-1-T	SP-1-CS	3	* REVERSE ARROW FOR OPPOSITE APPROACH
6	1-A	3.05 (10')	–	–	–	–	–	–	TV-2-T	SP-1-CS	2	
7	19-3-129	9.14 (30')	6.1 (20')	3.6 (12')	250 W	Crown Valley	–	MAS	SV-1-T	SP-1-CS	2	
8	15	3.05 (10')	–	4.6 (15')	250 W	–	–	MAS	SV-1-T	SP-1-CS	4	

1. EQUIPMENT IS NEW EXCEPT WHERE SHOWN: (E)=EXISTING.
2. ALL SIGNAL HEADS SHALL HAVE 12" INDICATIONS WITH GLASS LENSES AND REFLECTORS.
3. RSNS=REFLECTORIZED STREET NAME SIGN – SEE SPECIAL PROVISIONS.
4. POLES 1 AND 3 ARE PER CALTRANS PLANS DATED JULY, 1997.
5. ALL NEW POLES ARE PER CALTRANS PLANS DATED JULY, 1999.



NOTES

1. REFER TO DETAIL SHEET FOR GENERAL NOTES.
2. FURNISH AND INSTALL A 12 PHASE ECONOLITE ASC/2S-2100 TYPE 90 CONTROLLER FULLY WIRED NEMA TS2 TYPE 1 SIZE 6 ALUMINUM CABINET AND FOUNDATION. PLACE CONTROLLER ON TOP SHELF.
3. EXISTING TYPE III-BF SERVICE WITH 30A LIGHTING BREAKER. ADD 50A SIGNAL BREAKER AND TYPE V PHOTOELECTRIC CIRCUIT WITH DELAY TYPE PHOTOCELL. REPLACE EXISTING PHOTOCELLS ON LUMINAIRES WITH SHORTING CAPS. REPAINT CABINET & RESTENCIL SERVICE ADDRESS ON CABINET. COLOR TO MATCH CONTROLLER CABINET.
4. STREET PAINTING INSTALLATION AND REMOVALS SHALL BE COMPLETED BY THE CONTRACTOR.
5. USE EXISTING STUB-OUT.
6. STRIPING SHOWN (------) IS EXISTING. PROPOSED STRIPING AND PAVEMENT MARKINGS ARE SHOWN WITH SOLID LINES.
7. INSTALL EVP CABLE FROM END OF MAST ARM TO CONTROLLER CABINET. COIL 10 FEET OF CABLE IN CABINET.
8. INSTALL W41 SIGN 500' TO CROSSWALK BETWEEN CURB AND R/W AND STENCIL ON PAVEMENT "SIGNAL AHEAD".
9. EXACT LOCATION AND CONDITION OF EXISTING CONDUITS IS UNKNOWN. THE CONTRACTOR SHALL VERIFY EXISTING CONDUIT STATUS. DAMAGED OR MISSING CONDUITS SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. EXISTING DAMAGED PULLBOXES AND/OR LIDS SHALL ALSO BE REPLACED.
10. SANDBLAST REMOVE EXISTING CONFLICTING STRIPING.
11. REMOVE EXIST. R1 SIGN AND POST AT SIGNAL TURN ON.
12. INSTALL 12" WHITE CROSSWALK.
13. INSTALL TYPE IV ARROW.
14. FURNISH AND INSTALL R34 SIGN ON MAST ARM.
15. INSTALL BELL RING TYPE BUSHINGS ON ALL NEW AND EXISTING PVC CONDUITS.



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

MAY 0 2 2000

WPA TRAFFIC ENGINEERING, INC.
TRAFFIC AND TRANSPORTATION ENGINEERING
23421 SOUTH POINTE DRIVE SUITE 180 LAGUNA HILLS, CA. 92653 (949) 450-0110

County of Orange
PFRD/PROGRAM DEVELOPMENT DIVISION- TRAFFIC ENGINEERING
Approved By: L.G. OCHOA, County Traffic Engineer
Date: 5/2/00

THIS PLAN IS SIGNED BY PFRD/T.E. FOR CONCEPT AND ADHERENCE TO COUNTY TRAFFIC SIGNALS, SIGNING AND STRIPING STANDARDS AND REQUIREMENTS ONLY. PFRD/T.E. IS NOT RESPONSIBLE FOR DESIGN ASSUMPTIONS OR ACCURACY.

DIGALERT
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

MARK	DATE	DESCRIPTION

REVISIONS

PREPARED UNDER RESPONSIBLE CHARGE OF:

REGISTERED PROFESSIONAL ENGINEER STEVE E. PRINCE No. 16023 EXP. 6/30/01 CIVIL STATE OF CALIFORNIA

DATE

ORANGE COUNTY
PUBLIC FACILITIES AND RESOURCES DEPARTMENT

TRAFFIC SIGNAL INSTALLATION PLAN CROWN VALLEY PKWY. AND SPORTS PARK ENTRY TRACT No. 15813

DESIGNED: SOMMERS/RLM
DRAWN: RLM
CHECKED:
SCALE: 1"=20'
DATE: 5/1/00
DRAWING NO.
SHEET 16 OF 20

C552.1