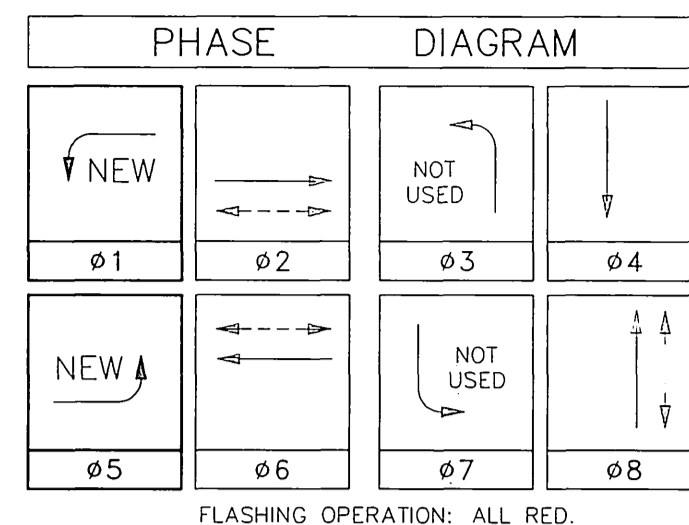


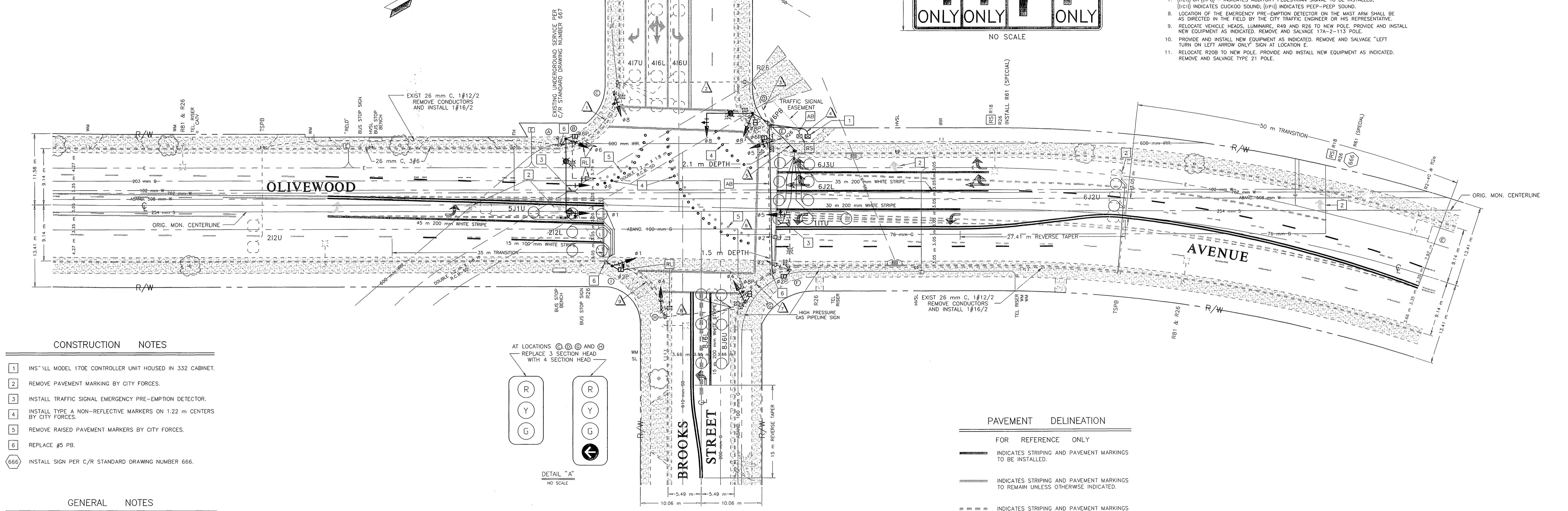
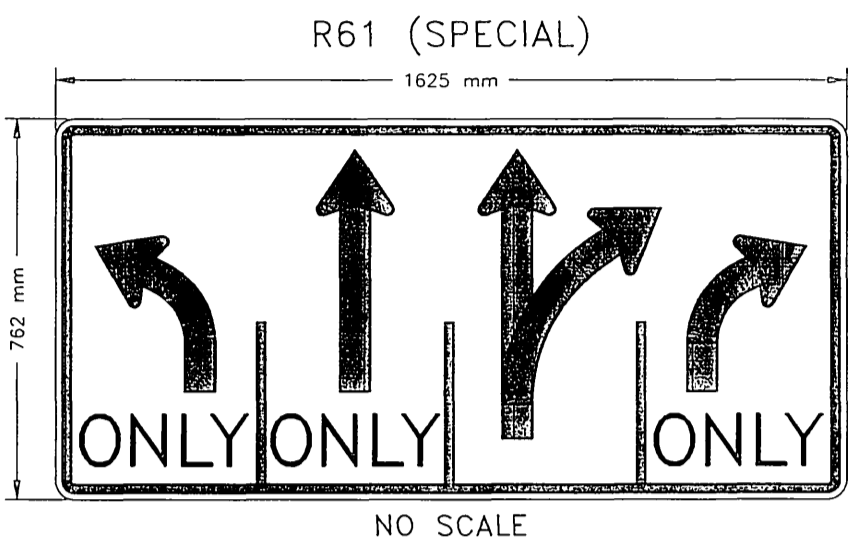
CONDUCTOR		TABLE											
CONTROL FUNCTION	CONDUCTORS	CONDUCTOR				RUNS							
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA	1	1	1	2	1	1	1	1	1	1	1	1
	9 WIRE IMSA	-	-	-	3	-	-	-	2	2	2	1	1
	5 WIRE IMSA	-	-	-	1	-	-	-	1	1	1	1	1
	3 WIRE IMSA	-	-	-	1	-	-	-	3	2	1	-	-



DETECTOR SCHEDULE	
LOOP DESIGNATION	NUMBER OF LOOPS
11U	3(N)
21U	2(E)
21L	4(N)
48U	4(E)
48L	4(E)
47U	2(E)
57U	3(N)
62U	2(N)
62L	4(N)
63U	2(N)
88U	3(N)
88L	3(N)

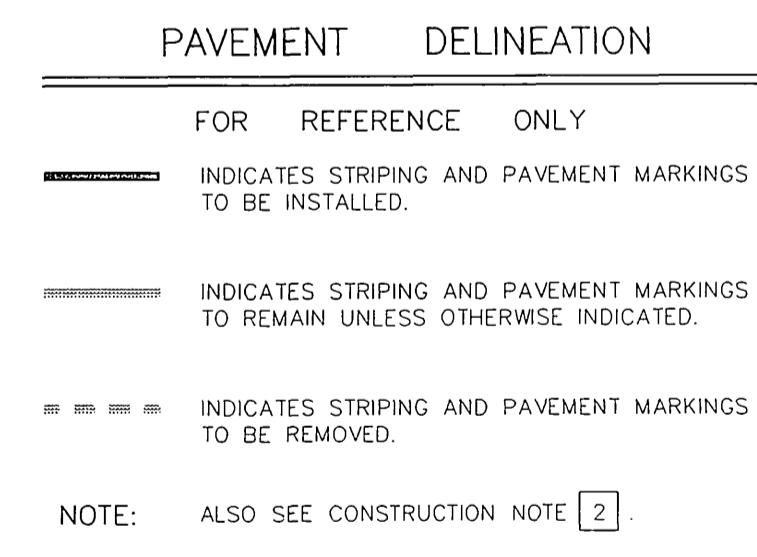
EQUIPMENT		SCHEDULE									
NO.	SIGNAL STANDARD	HEIGHT	M.A.	LUMINAIRE	I.I.S.N.S. LEGEND	VEHICLE	PEDESTRIAN	AUDIBLE	PHASE	REMARKS	
1	1A(E)	3.05m								SERVICE POLE	
2	26-4-129(N)	9.1m	12.2m(N)	3.7m(N)	250W(N)		MAS(N)			SEE NOTE 9	
3	1A(E)	3.05m					TV-1-(N)		8(N)	SEE NOTE 10 & DETAIL A	
4	19-3-129(N)	9.1m	7.62m(N)	3.7m(N)	250W(N)		MAS(N)		6(N)	SEE NOTE 11 & DETAIL A	
5	1A(E)	3.05m					TV-1-(N)	SP-1-(N)	(I(C)) (N)	8(N)	SEE NOTE 10
6	19A-2-113(E)	10.7m	9.1m(E)	4.6m(E)	250W(E)		MAS(N)			SEE NOTE 10	
7	1A(E)	3.05m					TV-1-(N)	SP-1-(N)	(I(P)) (N)	2(N)	SEE NOTE 10 & DETAIL A
8	1A(E)	3.05m					TV-1-(N)		2(N)	SEE NOTE 10 & DETAIL A	
9	1A(N)	3.05m					TV-1-(N)	SP-1-(N)	(I(P)) (N)		

NOTE:  
 1. SIGNAL SYSTEM SHALL HAVE NEW CABLES AND CONDUCTORS.  
 2. CONDUIT DIMENSIONS ARE IN MILLIMETERS.  
 3. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON EMERGENCY PRE-EMPTION CABLE.



- CONSTRUCTION NOTES**
- INS-11L MODEL 170E CONTROLLER UNIT HOUSED IN 332 CABINET.
  - REMOVE PAVEMENT MARKING BY CITY FORCES.
  - INSTALL TRAFFIC SIGNAL EMERGENCY PRE-EMPTION DETECTOR.
  - INSTALL TYPE A NON-REFLECTIVE MARKERS ON 1.22 m CENTERS BY CITY FORCES.
  - REMOVE RAISED PAVEMENT MARKERS BY CITY FORCES.
  - REPLACE #5 PB.
  - INSTALL SIGN PER C/R STANDARD DRAWING NUMBER 666.

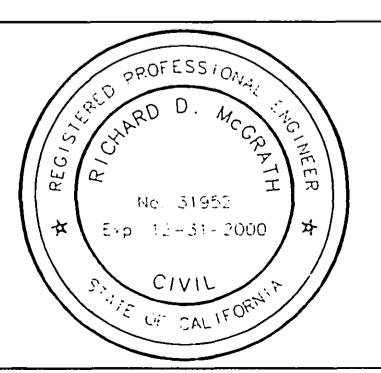
- GENERAL NOTES**
- DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE CITY TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
  - TYPICAL DETECTOR LOOP SPACINGS: 3 m AND 4.5 m.
  - PAVEMENT DELINEATION SHOWN HEREON IS FOR REFERENCE ONLY.
  - ALL SIGNING, STRIPING AND PAVEMENT MARKING REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TURN-ON.



**IMPORTANT NOTICE**  
 Section 42152.0315 of the Government Code requires a Dig Alert Identification Number to be placed before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number call CALL TOLL FREE TWO WORKING DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600



ENGINEER IN RESPONSIBLE CHARGE  
 Richard D. McGrath  
 R.C.E. NO. 31952 EXPIRES 12-31-2000  
 DATE 5-27-98



MARK	REVISIONS	APPR	DATE

CITY OF RIVERSIDE, CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY: *R. McGrath*  
 PRINCIPAL ENGINEER  
 P.W. INSPECTOR  
 DATE 5-28-98

TRAFFIC SIGNAL REVISION  
 CITY COLLEGE DRIVE AND OLIVEWOOD AVENUE  
 SCALE 1:300

ACCT. NO. 0430-541600-440303-35067  
 X-411A  
 SHEET 4 OF 6  
 FILE NAME: X411A.DWG

CONTRACT TE-98-2

CONTRACTOR'S LICENSE REQUIREMENTS "A" OR "C-10"



CONDUCTOR SCHEDULE

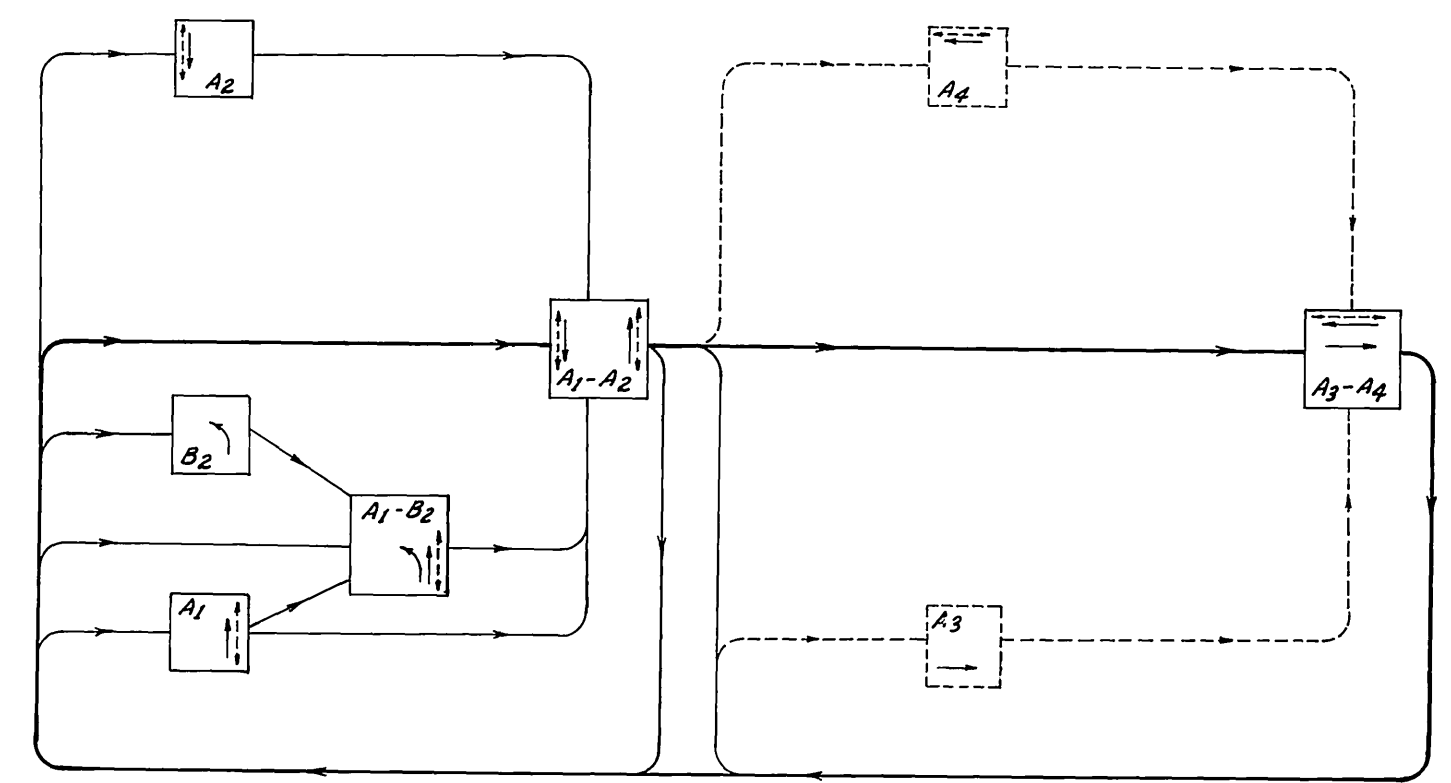
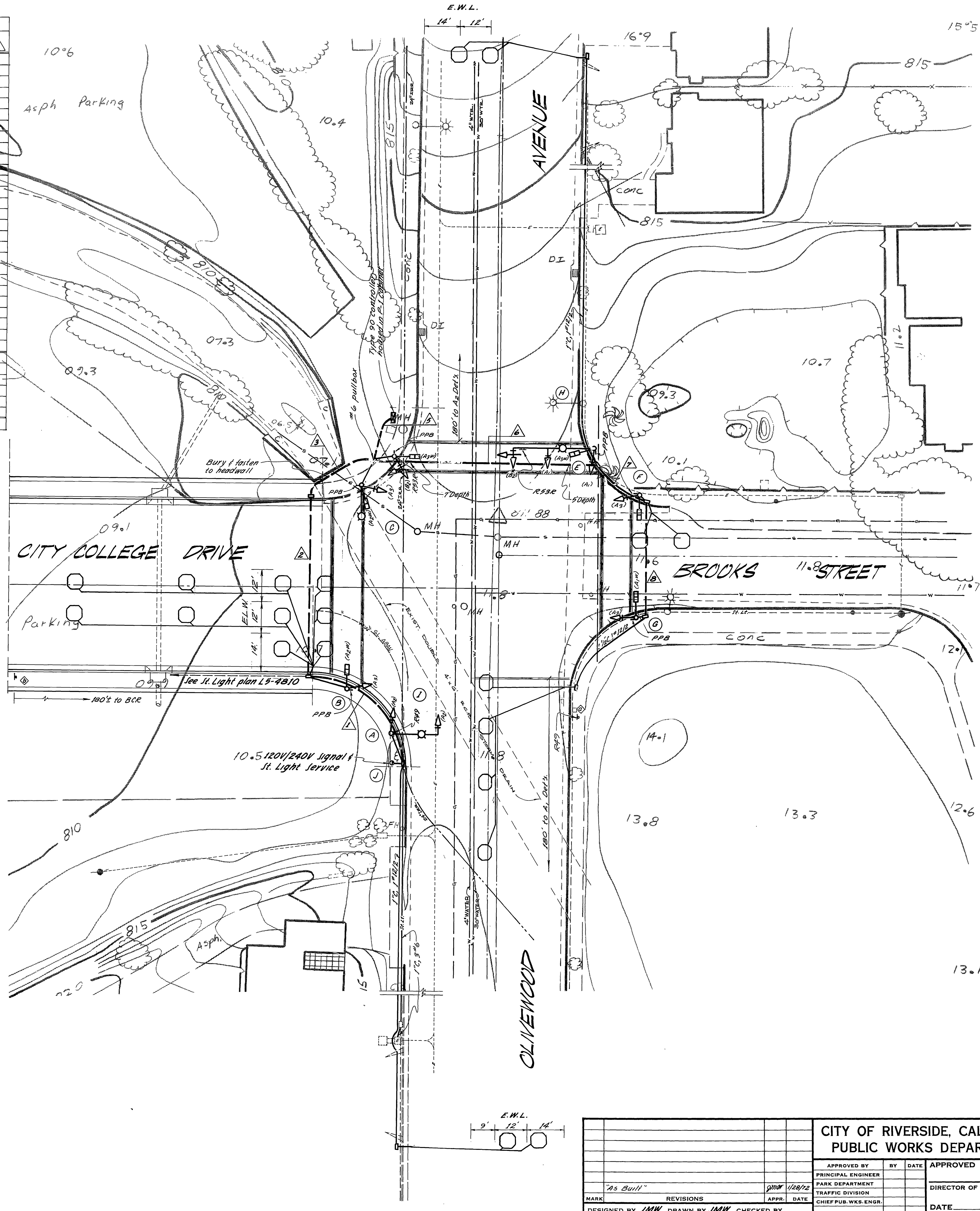
Control Function	Conductors		Run No.							
	Size	Material	1	2	3	4	5	6	7	8
Vehicle Heads	#14	T.W.								
ΦA <sub>1</sub>										
ΦA <sub>2</sub>			3	3	3	3	3	3		
ΦA <sub>3</sub>									3	3
ΦA <sub>3</sub> (Future A <sub>4</sub> )			3	3	3	3	3	3		
ΦB <sub>2</sub>									3	3
Pedestrian Heads										
ΦA <sub>1W</sub>						2	2	2	2	2
ΦA <sub>2W</sub>			2	2	2	2	2	2		
ΦA <sub>3W</sub>									2	2
Ped. Push Button										
ΦA <sub>1W</sub>						2	2	2	2	1
ΦA <sub>2W</sub>			1	2	2	2	2	2		
ΦA <sub>3W</sub>						2	1			
Detector Cable	#18/2	P.E.								
ΦA <sub>1</sub>			1	1	1	1	1			
ΦA <sub>2</sub>								1	1	
ΦA <sub>3</sub>				2	2	2	2			
ΦA <sub>3</sub> (Future A <sub>4</sub> )								1	1	1
ΦB <sub>2</sub>								1	1	1
Spares	#14	T.W.	3	3	3	3	3	3	3	3
12V Common	#12			1	1	1	1	1	1	1
120V Common	#10			1	1	1	1	1	1	1
Signal Service	#8			2	2	2	2	2		
Luminaires		T.H.W.	2	2	2	2	2			
Totals	#14	T.W.	6	12	13	13	30	19	10	9
	#12			1	1	1	1	1	1	1
	#10			1	1	1	1	1	1	1
	#8			2	2	2	2			
	T.H.W.			2	2	2	2	2		
	#18/2	P.E.		1	3	3	3	3	2	1
Conduit Size			2"	2 1/2"	2 1/2"	2 1/2"	3"	2 1/2"	2"	2"

Note: Run No. omitted

EQUIPMENT SCHEDULE

Location	Standard	Vehicle Equipment				Ped. Equipment			Luminaire
		Heads	Mtg's	Base Plate	Lower	Heads	Mtg's	RRB's	
A	Type IIIA 20"IA, 15"LA	1W3C(12")	M-2	1				1000 W	
B	Type I	1W3C	A-2	1	1W2C	W-0	1		
C	Type III	1W3C	B-1	1	1W2C	W-0	1	1000 W	
D	Type I	1W3C (6, X, 12"GA)	A-2	1	1W2C	W-0	1		
E	Type IIIA 30"IA, 15"LA	1W3C*	M-2(30')	1				400 W	
F	Type I	1W3C(12")	B-1	1	1W2C	W-0	1		
G	Type I	1W3C(12")	A-2	1	1W2C	W-0	1		
H								400 W	
I								400 W	

SA = Signal Arm LA = Luminaire Arm



PHASE DIAGRAM

Proposed ———  
Future - - - - -

Φ<sub>1</sub> A<sub>1</sub> & A<sub>2</sub> - Type DP Modules  
Φ<sub>1</sub> A<sub>3</sub> - Type SP Modules  
Φ<sub>2</sub> B<sub>2</sub> - Type S Modules

FLASHING INDICATION  
Φ<sub>3</sub> A<sub>1</sub> & A<sub>2</sub> = Yellow  
Φ<sub>3</sub> A<sub>3</sub> & B<sub>2</sub> = Red

SIGNING REQUIREMENTS

Location	Code No.	Size	Mounting	Facing	Remarks
⊙	R49(Lt)	36"x18"	Wood Post	W	
⊙	R49(Rt)	36"x18"	Signal Std.	E	
⊙	R53R	24"x24"	Signal Std.	S	
⊙	R53R	38"x38"	O.H. Signal Arm	S	
⊙	R68(R)ped	48"x30"	4x6 Wood Post	W	

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT		TRAFFIC SIGNALS <b>BROOKS STREET, CITY COLLEGE DRIVE &amp; OLIVEWOOD AVENUE</b>		ACCOUNT No. 90-975-991-07 DRAWING NUMBER <b>X-411</b> SHEET 1 OF 1
APPROVED BY PRINCIPAL ENGINEER PARK DEPARTMENT	BY DATE 1/28/12	APPROVED BY DIRECTOR OF PUBLIC WORKS	DATE	SCALE: 1" = 20'
MARK DESIGNED BY JMM DRAWN BY JMM CHECKED BY	REVISIONS	APPR. DATE	CHIEF PUB. WORKS ENGR.	