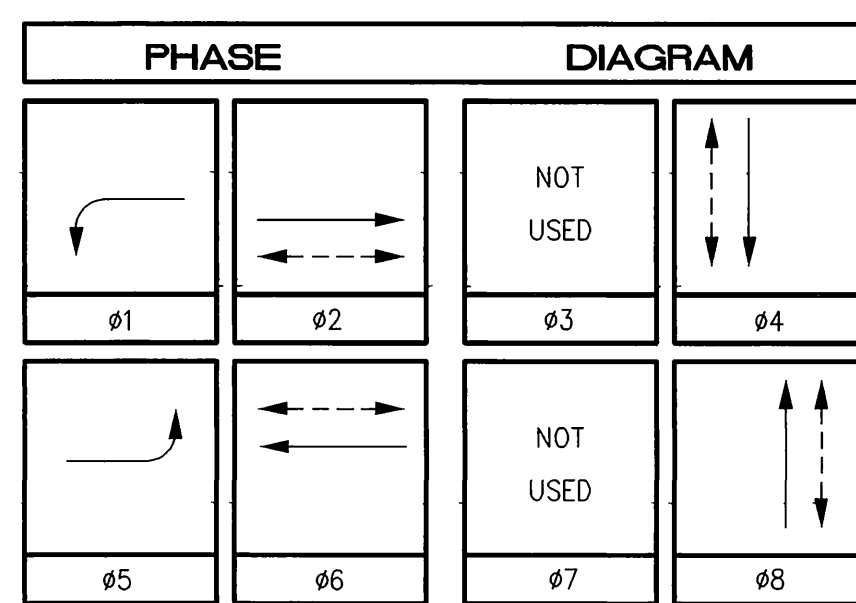
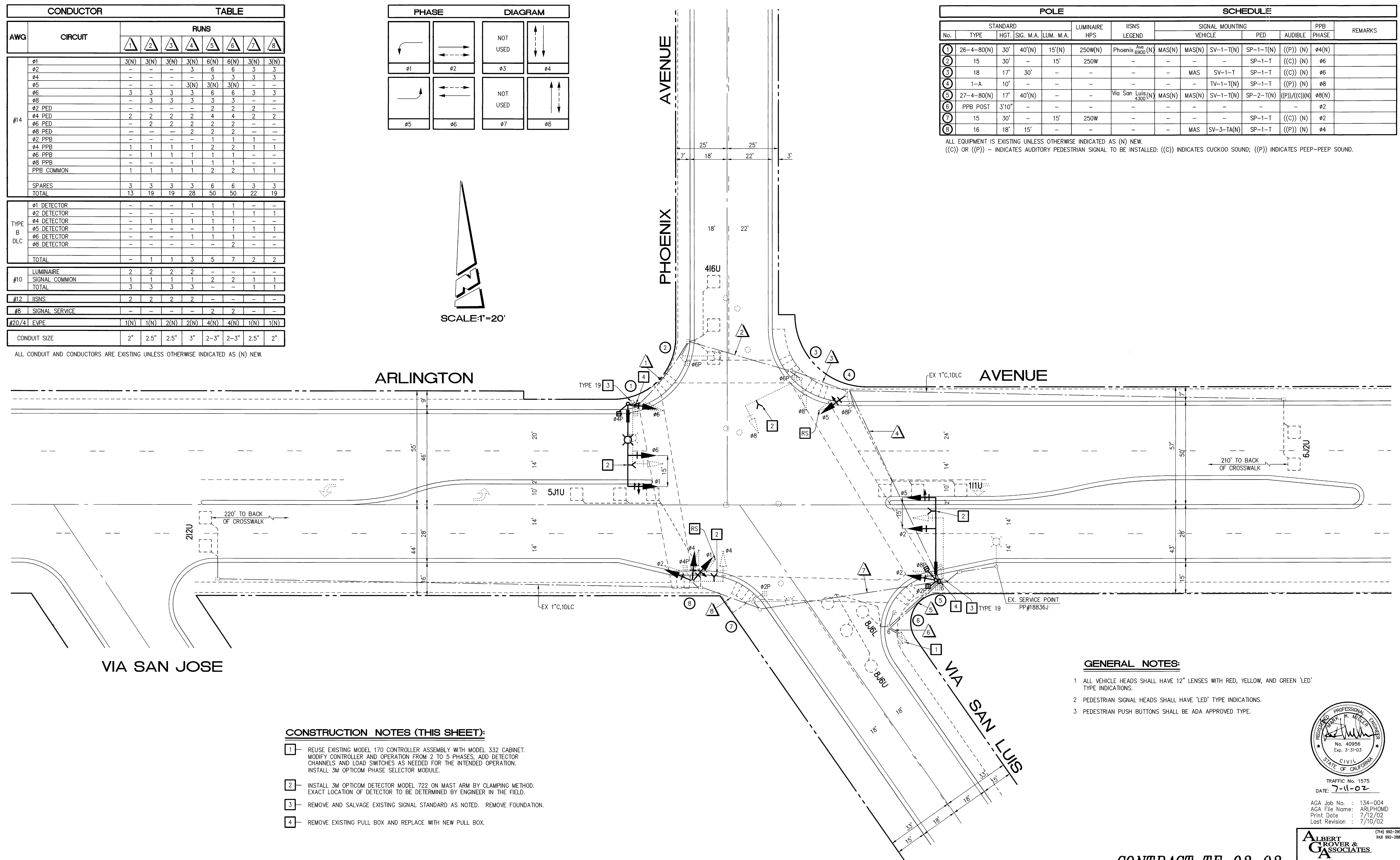
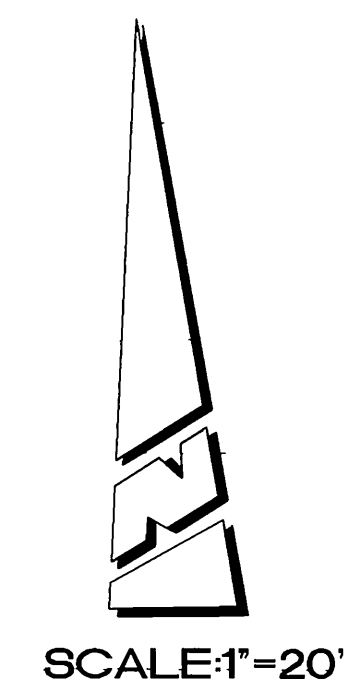


CONDUCTOR		TABLE							
AWG	CIRCUIT	RUNS							
		1	2	3	4	5	6	7	8
#14	Ø1	3(N)	3(N)	3(N)	3(N)	6(N)	6(N)	3(N)	3(N)
	Ø2	-	-	-	3	6	6	3	3
	Ø4	-	-	-	3	3	3	3	3
	Ø5	-	-	-	3(N)	3(N)	3(N)	-	-
	Ø6	3	3	3	3	6	6	3	3
	Ø8	-	3	3	3	3	3	-	-
	Ø2 PED	-	-	-	2	2	2	-	-
	Ø4 PED	2	2	2	2	4	4	2	2
	Ø6 PED	-	2	2	2	2	2	-	-
	Ø8 PED	-	-	-	2	2	2	-	-
	Ø2 PPB	-	-	-	1	1	1	-	-
	Ø4 PPB	1	1	1	1	2	2	1	1
	Ø6 PPB	-	1	1	1	1	1	-	-
	Ø8 PPB	-	-	-	1	1	1	-	-
	PPB COMMON	1	1	1	1	2	2	1	1
	SPARES	3	3	3	3	6	6	3	3
	TOTAL	13	19	19	28	50	50	22	19
TYPE B DLC	Ø1 DETECTOR	-	-	-	1	1	1	-	-
	Ø2 DETECTOR	-	-	-	1	1	1	1	1
	Ø4 DETECTOR	-	1	1	1	1	1	-	-
	Ø5 DETECTOR	-	-	-	-	1	1	1	1
	Ø6 DETECTOR	-	-	-	1	1	1	-	-
	Ø8 DETECTOR	-	-	-	-	2	-	-	-
	TOTAL	-	1	1	3	5	7	2	2
#10	LUMINAIRE	2	2	2	2	-	-	-	-
	SIGNAL COMMON	1	1	1	1	2	2	1	1
	TOTAL	3	3	3	3	-	-	1	1
#12	IISNS	2	2	2	2	-	-	-	-
#8	SIGNAL SERVICE	-	-	-	-	2	2	-	-
#20/4	EVPE	1(N)	1(N)	2(N)	2(N)	4(N)	4(N)	1(N)	1(N)
CONDUIT SIZE		2"	2.5"	2.5"	3"	2-3"	2-3"	2.5"	2"



No.	TYPE	STANDARD				LUMINAIRE HPS	IISNS LEGEND	SCHEDULE				REMARKS	
		HGT.	SIG.	M.A.	LUM. M.A.			SIGNAL MOUNTING		PPB	PHASE		
		VEHICLE	PED	AUDIBLE									
1	26-4-80(N)	30'	40'(N)	15'(N)	250W(N)	Phoenix Ave 6900(N)	MAS(N)	MAS(N)	SV-1-T(N)	SP-1-T(N)	((P)) (N)	Ø4(N)	
2	15	30'	-	15'	250W	-	-	-	-	SP-1-T	((C)) (N)	Ø6	
3	18	17'	30'	-	-	-	-	MAS	SV-1-T	SP-1-T	((C)) (N)	Ø6	
4	1-A	10'	-	-	-	-	-	-	TV-1-T(N)	SP-1-T	((P)) (N)	Ø8	
5	27-4-80(N)	17'	40'(N)	-	-	Via San Luis 4300(N)	MAS(N)	MAS(N)	SV-1-T(N)	SP-2-T(N)	((P))((C)) (N)	Ø8(N)	
6	PPB POST	3'10"	-	-	-	-	-	-	-	-	-	Ø2	
7	15	30'	-	15'	250W	-	-	-	-	SP-1-T	((C)) (N)	Ø2	
8	16	18'	15'	-	-	-	-	MAS	SV-3-TA(N)	SP-1-T	((P)) (N)	Ø4	

ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE INDICATED AS (N) NEW.
 ((C)) OR ((P)) - INDICATES AUDITORY PEDESTRIAN SIGNAL TO BE INSTALLED; ((C)) INDICATES CUCKOO SOUND; ((P)) INDICATES PEEP-PEEP SOUND.



- CONSTRUCTION NOTES (THIS SHEET):**
- 1 REUSE EXISTING MODEL 170 CONTROLLER ASSEMBLY WITH MODEL 332 CABINET. MODIFY CONTROLLER AND OPERATION FROM 2 TO 5 PHASES, ADD DETECTOR CHANNELS AND LOAD SWITCHES AS NEEDED FOR THE INTENDED OPERATION. INSTALL 3M OPTICOM PHASE SELECTOR MODULE.
 - 2 INSTALL 3M OPTICOM DETECTOR MODEL 722 ON MAST ARM BY CLAMPING METHOD. EXACT LOCATION OF DETECTOR TO BE DETERMINED BY ENGINEER IN THE FIELD.
 - 3 REMOVE AND SALVAGE EXISTING SIGNAL STANDARD AS NOTED. REMOVE FOUNDATION.
 - 4 REMOVE EXISTING PULL BOX AND REPLACE WITH NEW PULL BOX.

- GENERAL NOTES:**
- 1 ALL VEHICLE HEADS SHALL HAVE 12" LENSES WITH RED, YELLOW, AND GREEN 'LED' TYPE INDICATIONS.
 - 2 PEDESTRIAN SIGNAL HEADS SHALL HAVE 'LED' TYPE INDICATIONS.
 - 3 PEDESTRIAN PUSH BUTTONS SHALL BE ADA APPROVED TYPE.



TRAFFIC No. 1575
 DATE: 7-11-02
 AGA Job No. : 134-004
 AGA File Name: ARLPHOMD
 Print Date : 7/12/02
 Last Revision : 7/10/02

ALBERT GROVER & ASSOCIATES
 TRANSPORTATION CONSULTING ENGINEERS
 211 E. Imperial Hwy., Suite 208 Fullerton, CA 92835
 (714) 992-2990
 FAX 992-2883

CONTRACT TE-02-02

Underground Service Alert
 Call: TOLL FREE
 1-800
 422-4133
 TWO WORKING DAYS BEFORE YOU DIG

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS				TRAFFIC SIGNAL PLAN		ACCOUNT NO.
APPROVED BY		DATE	BY	APPROVED BY		X-439A SHEET 3 OF 10
PRINCIPAL ENGINEER		8/22/02	AM	Name Red		
INSPECTION		8/15/02	z	PUBLIC WORKS DIRECTOR		
CHIEF P. W. ENGINEER		8/16/02	TSB	DATE 8/22/02		
MARK	REVISIONS	APPR.	DATE	HORIZ. SCALE: 1"= 20' VERT. SCALE: 1"= -		
DESIGNED BY	DRAWN BY	CHECKED BY				

Conductor Schedule

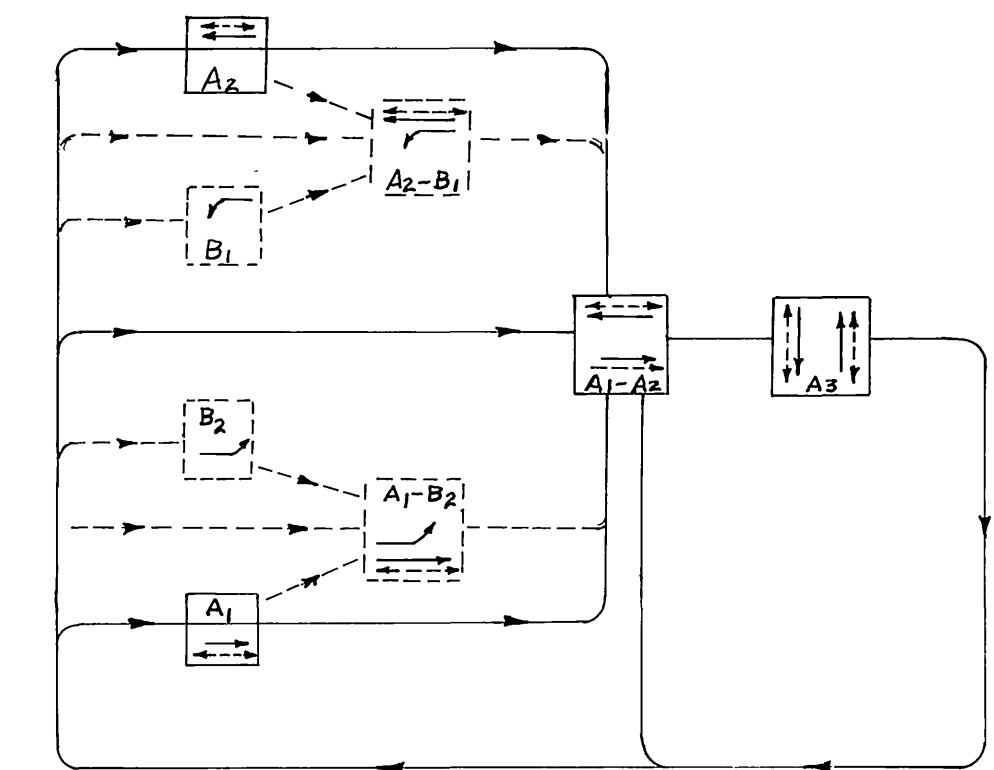
Control Function	Conductors Size/Insulation	Conduit Run													
		1	2	3	4	5	6	7	8	9	10				
Vehicle Heads #14 T.W.						3	3	3							
ΦA ₁		3	3	3	3	3	3	3							
ΦA ₂				3	3	6	6	3	3						
ΦA ₂ (ΦB future)		3	3	3	3	6	6	3	3						
ΦA ₁ (ΦB future)					3	3	3								
Ped. Heads															
ΦA _{1W}						2	2	2							
ΦA _{2W}			2	2	2	2	2								
ΦA _{3W}		2	2	2	2	4	4	2	2						
Ped. Push Button															
ΦA ₁						2	2	1							
ΦA ₂		1	1	2	2	2	2								
ΦA ₃				1	2	4	4	1	1						
Spares		3	3	3	3	6	6	3	3						
Detector Cable #12/R U.S.E.or U.F.															
ΦA ₁						1	1	1	1						
ΦA ₂						1	1	1							
ΦA ₃			1	1	1	1	2								
ΦA ₂ (ΦB future)						1	1								
ΦA ₁ (ΦB future)						1	1	1	1						
ΦA ₃ Future			1	1	1	1	2								
IZV Common #1K T.W.		1	1	1	1	2	2	1	1						
IZOV Common #10		1	1	1	1	2	2	1	1						
Signal Service #8						2	2								
Luminaires # T.H.W.		2	2	2	2			2							
Totals #14 T.W.		12	15	19	23	43	43	18	15						
#15		2	2	4	5	8	8	2	2						
#22		1	1	1	1	2	2	1	1						
#40		1	1	1	1	2	2	1	1						
#5						2	2								
#8						2	2								
#9								2							
Conduit Size		2"	2 1/2"	2 1/2"	3"	2 3/4"	2 3/4"	2 1/2"	2"	1 1/2"					

Equipment Schedule

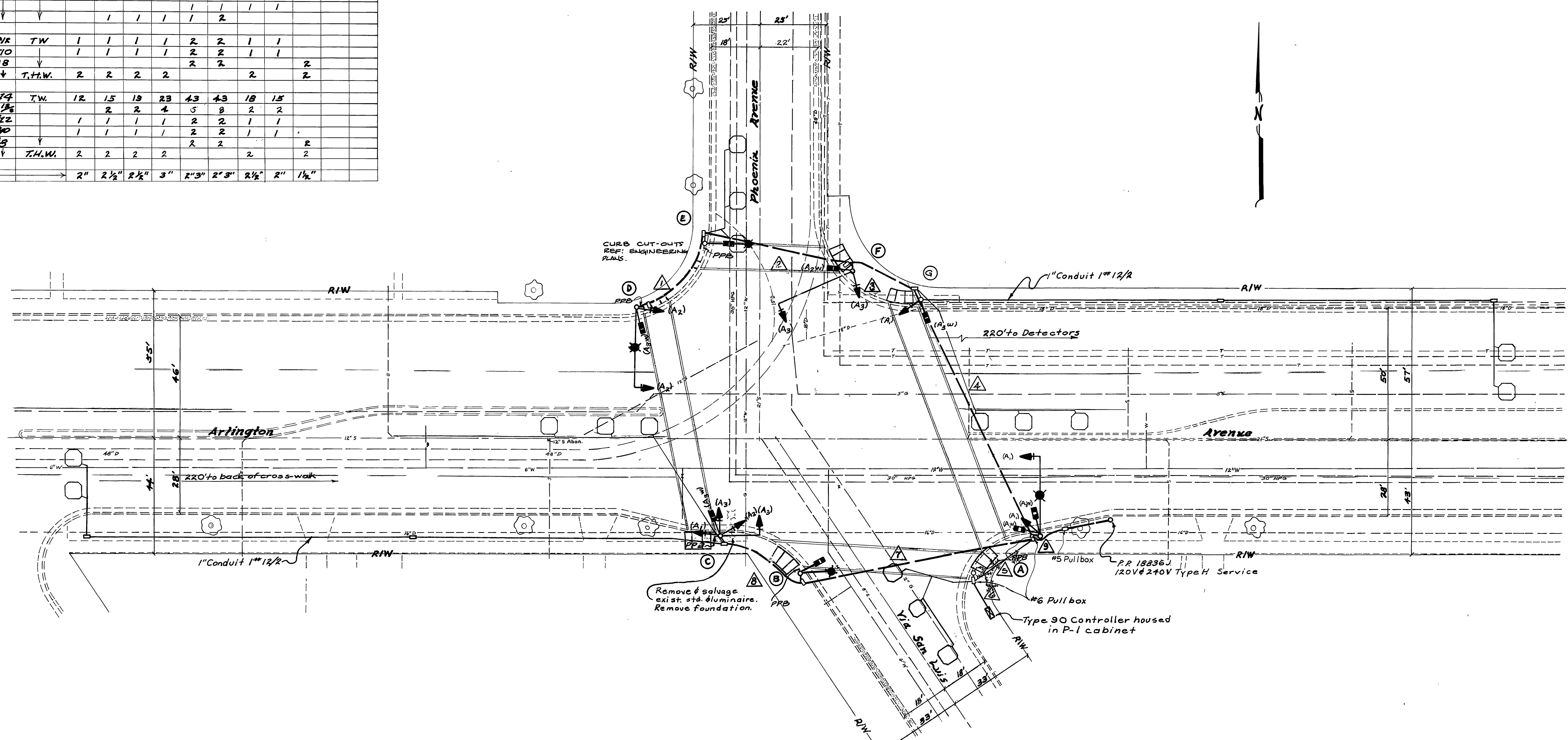
Location	Standard	Vehicle Equipment			Ped. Equipment			Luminaire	Remarks
		Heads	Mfg's	Back Plate	Lower	Heads	Mfg's		
A	Type III-A 15'LA, 30'SA	1W3C(12) 1W3C(12)	M-2 B-1	1 1		2W2C W-3	2	250W	Provide + install equipment indicated.
B	Type XV 15'LA					1W2C W-0	1	250W	Provide + install equipment indicated.
C	Type XVI 15'LA	1W3C(12) 2W3C	M-2 B-1	1 3		1W2C W-0	1		Remove + salvage exist. std. + luminaire Provide + install equipment indicated.
D	Type XIX-A 15'LA, 30'SA	1W3C(12) 1W3C(12)	M-2 B-1	1 1		1W2C W-0	1	250W	Provide + install equipment indicated.
E	Type XV 15'LA					1W2C W-0	1	250W	Provide + install equipment indicated.
F	Type XVIII 30'SA	1W3C(12) 1W3C	M-2 B-1	1 1		1W2C W-0	1		Provide + install equipment indicated.
G	Type I	1W3C	A-2	1		1W2C W-0	1		Provide + install equipment indicated.

Luminaires are High Pressure Sodium Vapor.
All Type I standards shall be aluminum-city furnished.
Luminaires will be in accordance w/ P.U.D. specification #119 for Street Light Construction, Note 2, Sheet 2 of UGS-800.

Phase Diagram



Flashing Indication: ΦA₁, ΦA₂ Yellow, ΦA₃ Red
ΦA₁, ΦA₂ = Type DP Module
ΦA₃ = Type SP Module



— FOR REFERENCE ONLY —

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT		TRAFFIC SIGNALS		ACCOUNT No. 30-575-265
APPROVED BY: [Signature]		APPROVED BY: [Signature]		DRAWING NUMBER
DATE: 1/7/74		DATE: 7/25/74		X-439
DESIGNED BY: [Signature]		DRAWN BY: [Signature]		SHEET 1 OF 1
CHECKED BY: [Signature]		SCALE: 1" = 20'		