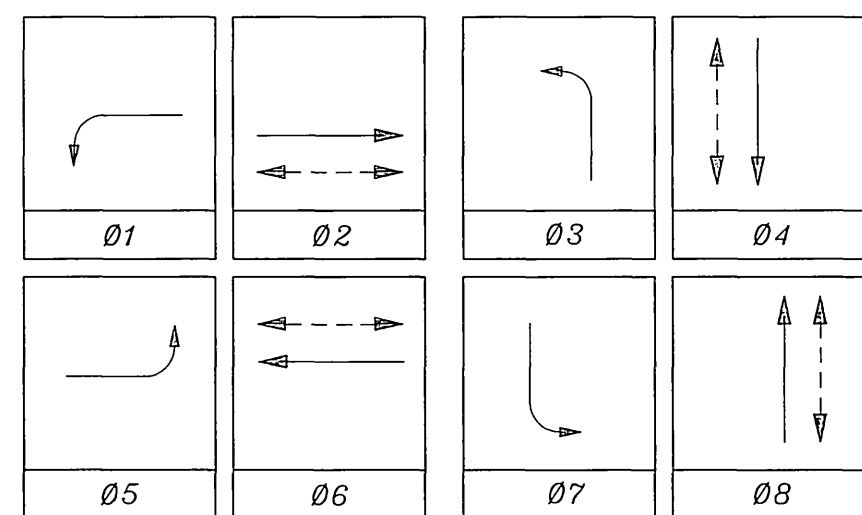


PHASE DIAGRAM



FLASHING OPERATION SHALL BE ALL RED.

PAVEMENT DELINEATION

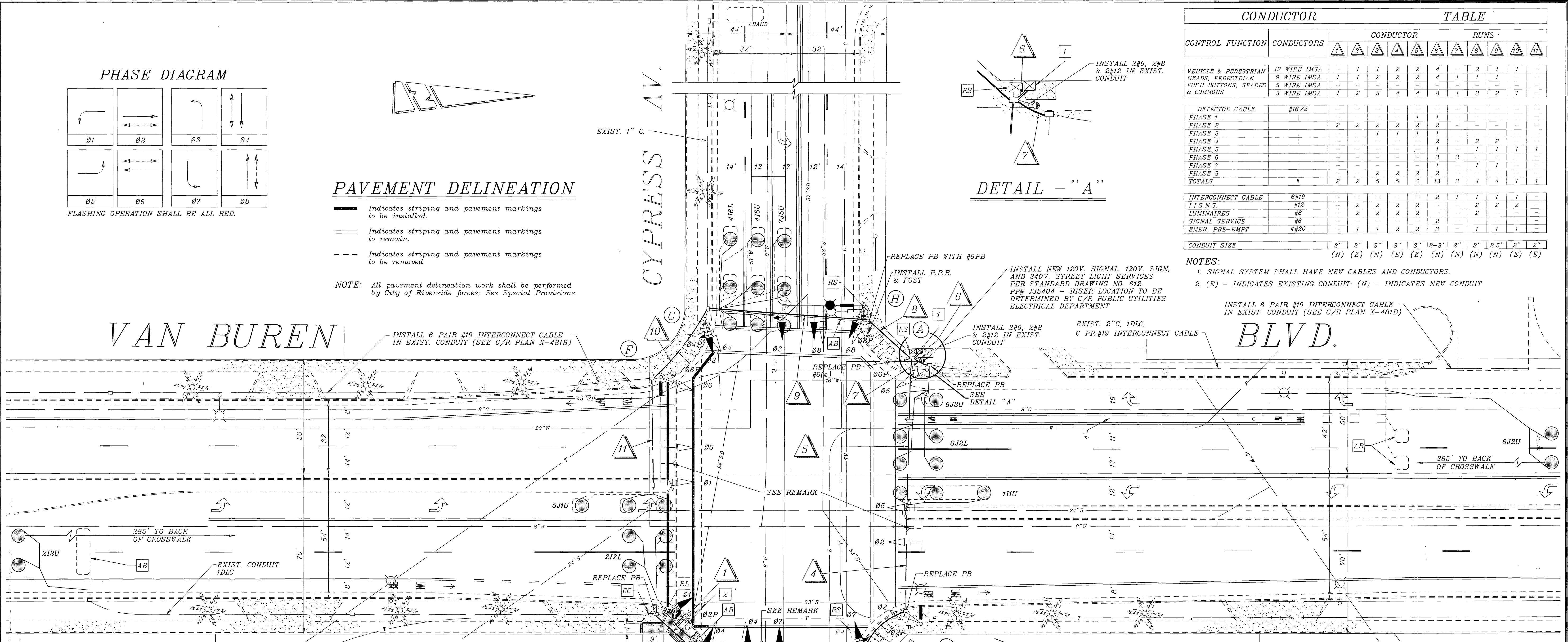
- Indicates striping and pavement markings to be installed.
- == Indicates striping and pavement markings to remain.
- - - Indicates striping and pavement markings to be removed.

NOTE: All pavement delineation work shall be performed by City of Riverside forces; See Special Provisions.

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS																			
		1	2	3	4	5	6	7	8	9	10	11									
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA	-	1	1	2	2	4	-	2	1	1	-	-	-	-	-	-	-	-	-	-
	9 WIRE IMSA	1	1	2	2	2	4	1	1	1	-	-	-	-	-	-	-	-	-	-	-
	5 WIRE IMSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3 WIRE IMSA	1	2	3	4	4	8	1	3	2	1	-	-	-	-	-	-	-	-	-	-
DETECTOR CABLE	#16/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHASE 1		-	-	-	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
PHASE 2		2	2	2	2	2	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
PHASE 3		-	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
PHASE 4		-	-	-	-	-	-	2	-	-	2	2	-	-	-	-	-	-	-	-	-
PHASE 5		-	-	-	-	-	-	1	-	1	1	1	1	-	-	-	-	-	-	-	-
PHASE 6		-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-
PHASE 7		-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-
PHASE 8		-	-	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTALS		2	2	5	5	6	13	3	4	4	1	1	1	1	-	-	-	-	-	-	-
INTERCONNECT CABLE	6#19	-	-	-	-	-	-	2	1	1	1	1	-	-	-	-	-	-	-	-	-
I.I.S.N.S.	#12	-	2	2	2	2	-	-	2	2	2	-	-	-	-	-	-	-	-	-	-
LUMINAIRES	#8	-	2	2	2	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
SIGNAL SERVICE	#6	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
EMER. PRE-EMPT	4#20	-	1	1	2	2	3	-	1	1	1	-	-	-	-	-	-	-	-	-	-
CONDUIT SIZE		2"	2"	3"	3"	3"	2-3"	2"	3"	2.5"	2"	2"	-	-	-	-	-	-	-	-	-
		(N)	(E)	(N)	(E)	(E)	(N)	(N)	(N)	(N)	(E)	(E)	-	-	-	-	-	-	-	-	-

NOTES:
 1. SIGNAL SYSTEM SHALL HAVE NEW CABLES AND CONDUCTORS.
 2. (E) - INDICATES EXISTING CONDUIT; (N) - INDICATES NEW CONDUIT

INSTALL 6 PAIR #19 INTERCONNECT CABLE IN EXIST. CONDUIT (SEE C/R PLAN X-481B)



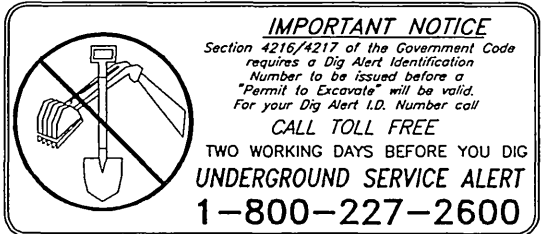
EQUIPMENT

SCHEDULE

NO.	SIGNAL STANDARD	LUMINAIRE	I.I.S.N.S.	SIGNAL MOUNTINGS			PPB	REMARKS
				VEHICLE	PEDESTRIAN	AUDIBLE		
(A)	1A(E)	10'		TV-1-T(E)	SP-1-T(E)	N/A	8(E)	
(B)	29-4-80(E)	30' 50'(E) 12'(E) 400W(E)	JACKSON (N)	MAS(E)				EMER. PRE-EMPT (E)
				SV-1-T(E)	SP-1-T(E)	N/A	8(E)	
(C)	1A(E)	10'		TV-1-T(N)	SP-1-T(E)	N/A	2(E)	
(D)	24-4-80(N)	30' 35'(N) 12'(N) 200W(R)	VAN BUREN (N)	MAS(N)				EMER. PRE-EMPT (R)
				SV-1-T(R)	SP-1-T(R)	N/A	2(N)	
(E)	1A(R)	10'		TV-1-T(E)	SP-1-T(E)	N/A	4(N)	
(F)	26-4-80(E)	30' 45'(E) 12'(N) 400W(N)	CYPRESS (N)	MAS(E)				EMER. PRE-EMPT (E)
				SV-1-T(E)	SP-1-T(E)	N/A	4(E)	SHALL BE STRAIGHT ARM TYPE
(G)	1A(E)	10'		TV-1-T(N)	SP-1-T(E)	N/A	6(E)	
(H)	24-4-80(N)	30' 35'(N) 12'(N) 200W(R)	VAN BUREN (N)	MAS(N)				EMER. PRE-EMPT (R)
				SV-1-T(R)	SP-1-T(R)	N/A	6(N)	INSTALL P.P.B. AND POST

(E)=EXISTING (N)=NEW (R)=RELOCATE

NOTES:
 1. ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.
 2. ALL LEFT TURN HEADS SHALL HAVE ALL ARROWS.



ENGINEER IN RESPONSIBLE CHARGE
 Richard D. McGrath
 RICHARD D. McGRATH
 R.C.E. No. 31952
 DATE 1-13-98

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY: [Signature]
 PRINCIPAL ENGINEER
 P.W. INSPECTION: [Signature]
 TRAFFIC DIVISION CHIEF P.W. ENGR. PUBLIC UTILITIES

DATE 1-13-98

TRAFFIC SIGNAL MODIFICATION
 VAN BUREN BLVD. @ JACKSON ST. CYPRESS AV.

ACCT. NO. 0430-541600-440125-35068
 X-419
 SHEET 1 OF 1
 FILE NAME: X419.DWG

SCALE: 1" = 20'

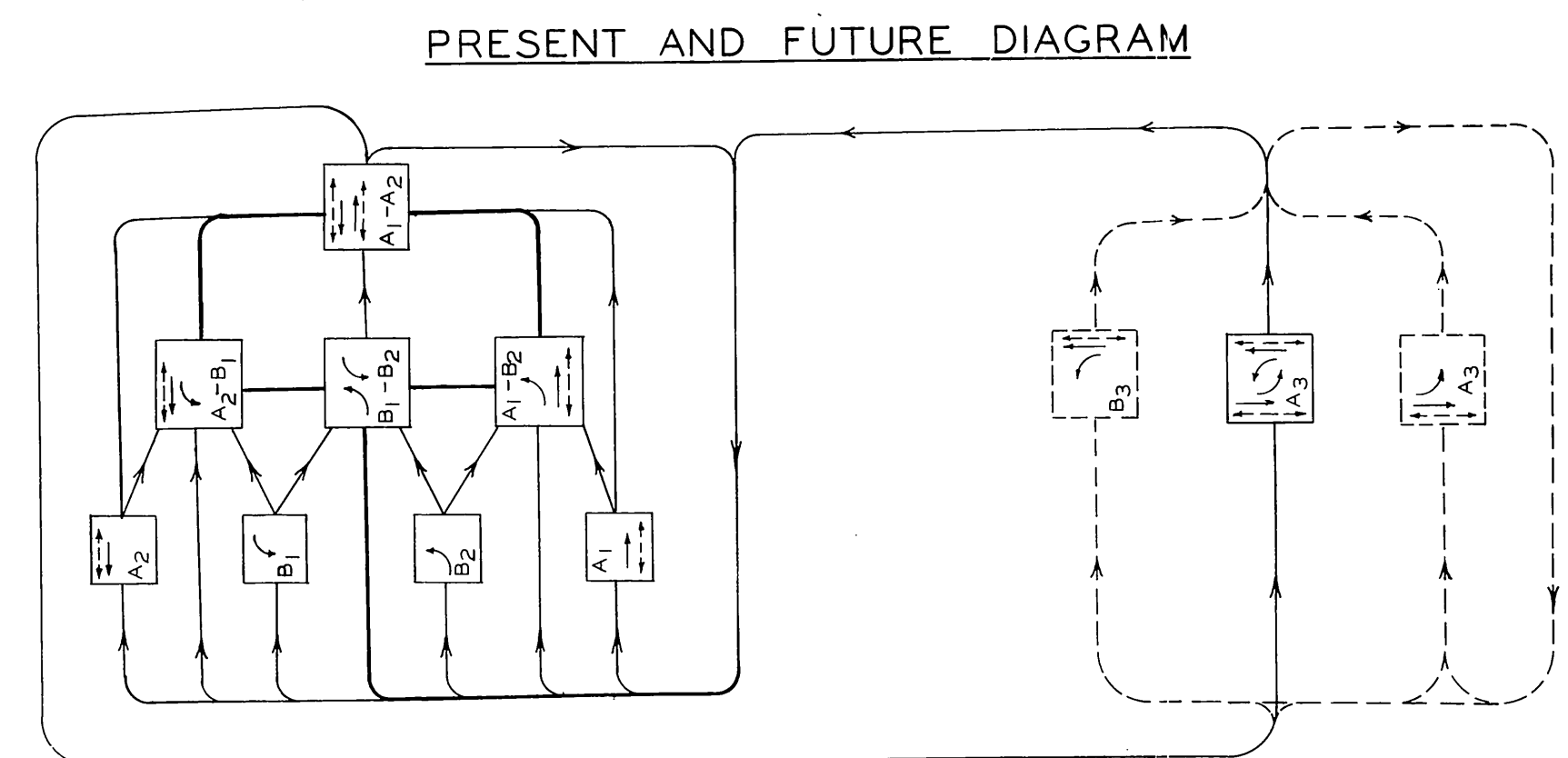
GENERAL NOTES
 1 - DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
 2 - TYPICAL DETECTOR LOOP SPACING: 10' AND 15'.

CONSTRUCTION NOTES
 1 - INSTALL MODEL 170E/332 CABINET ASSEMBLY ON NEW FOUNDATION.
 2 - CONSTRUCT MODIFIED "CASE C" WHEELCHAIR RAMP PER CALTRANS STANDARD PLAN RNSP A88, AND AS DIRECTED IN THE FIELD.

CONTRACT TE-97-3
 FEDERAL AID PROJECT NO. CMLN-5058(024)
 CONTRACTOR'S LICENSE REQUIREMENTS "A" OR "C-10"

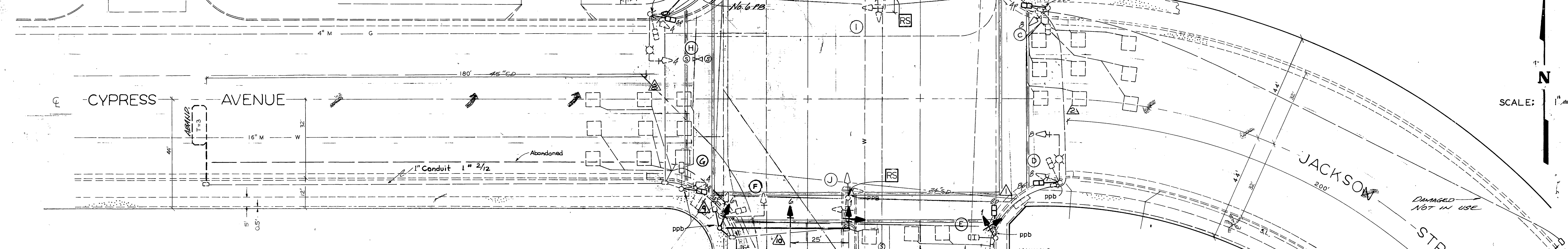
CONDUCTOR SCHEDULE																																								
CONDUCTOR RUN	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14								
CONDUCTORS																																								
Q A1																																								
Q A2																																								
Q A3																																								
Q B1																																								
Q B2																																								
Q B3 (FUTURE)																																								
Q A1 PED																																								
Q A2 PED																																								
Q A3 PED																																								
Q B3 PED (FUTURE)																																								
SPARES																																								
Q A1 DET																																								
Q A1 CALL DET																																								
Q A2 DET																																								
Q A3 DET																																								
Q A3 CALL DET																																								
Q B1 DET																																								
Q B2 DET																																								
Q B3 DET (FUTURE)																																								
Q B3 CALL DET																																								
Q A1 PPB																																								
Q A2 PPB																																								
Q A3 PPB																																								
Q B3 PPB (FUTURE)																																								
12 VAC COMMON																																								
120 V COMMON																																								
LUMINAIRE																																								
SIGNAL SERVICE																																								
TOTAL CONDUCTORS	1	7	5	2	1	7	10	2	1	12	10	2	1	15	15	2	1	12	13	2	8	21	24	2	1	9	19	2	1	8	16	2	1	5	14	1	4	9		
CONDUIT SIZE	1 1/2"			2"	2"			2"	2"			2"	3 (New)	2 1/2" (New)		2"	2"			2"	2"			2"	2"			2"	2"			2"	2"			2"				

* INDICATES 5A RUN, CONDUCTORS IN RUN 5A TOTAL (10/3) 2/12
 RUN 5A IS 2" CONDUIT



PHASE DESIGNATIONS FOR THIS PROJECT

- Phase 1 = B1
- Phase 2 = A1
- Phase 3 = B3
- Phase 4 = A3
- Phase 5 = B2
- Phase 6 = A2
- Phase 7 = No designation
- Phase 8 = A3



POLE AND SIGNAL SCHEDULE								
LOCATIONS	STANDARD	LUMINAIRE	SIGNALS			WALK-DON'T WALK		REMARKS
			TYPE	MTG.	LENS SIZE	TYPE	MTG.	
A	TYPE I(N)		1-W3C(N)	TV-1-T(N)	3-12"(N)	1-W2C	SP-1-T	Salvage 7' 11" std. provide & install 10' 11" std. veh. head. Relocate P.P.B. & Ped. head.
B	26-4-80(N) 12'LA, 45'SA	55,000 MV	1-W3C 1-W3C(N)	SV-1-T MAS(N)	3-8" 3-12"(N)	1-W2C	W-0	Salvage std. provide & install new std. & equip. as indicated. Reloc. equip. to new std.
C	TYPE I		1-W3C	A-2	3-8"	1-W2C	W-0	Relocate Ped. head.
D	68J10	20,000 MV	1-W3C 1-W3C	B-1 M2-18' MA	3-8" 3-12"	1-W2C	W-0	Relocate Ped. head.
E	TYPE I(N)		1-W3C(N)	TV-1(N)	3-12"(N)	1-W2C	SP-1-T	Salvage 7' 11" std. provide & install 10' 11" std. veh. head. Reloc. P.P.B. & Ped. head.
F	28-5-80(N) 12'LA, 50'SA	55,000 MV	1-W3C 1-W3C(N)	SV-1-T MAS(N)	3-8" 3-12"(N)	1-W2C	SP-1-T	Salvage std. provide & install new std. & equip. as indicated. Relocate equip. to new std.
G	TYPE I		1-W3C	A-2	3-8"	1-W2C	W-0	Relocate Ped. head.
H	68J10G18	20,000 MV	1-W3C 1-W3C	B-1 M2-18' MA	3-8" 3-12"	1-W2C	W-0	Relocate Ped. head.
I	TYPE I		2-W3C	A-6	2-8" 1-12"			Remove and Salvage
J	TYPE I		2-W3C	A-6	2-8" 1-12"			Remove and Salvage

N = new equipment to be provided & installed.
 New vehicular heads shall have all arrows.
 New 1A std. shall be aluminum

- CONSTRUCTION NOTES:**
- See Plan E-2945, Sht. 13, for street improvements and detector loop replacements.
 - See Plan KL-218 for striping.
 - The system shall have new conductors, including those indicated as future 3 & 7.
 - Abandoned foundations shall be removed.

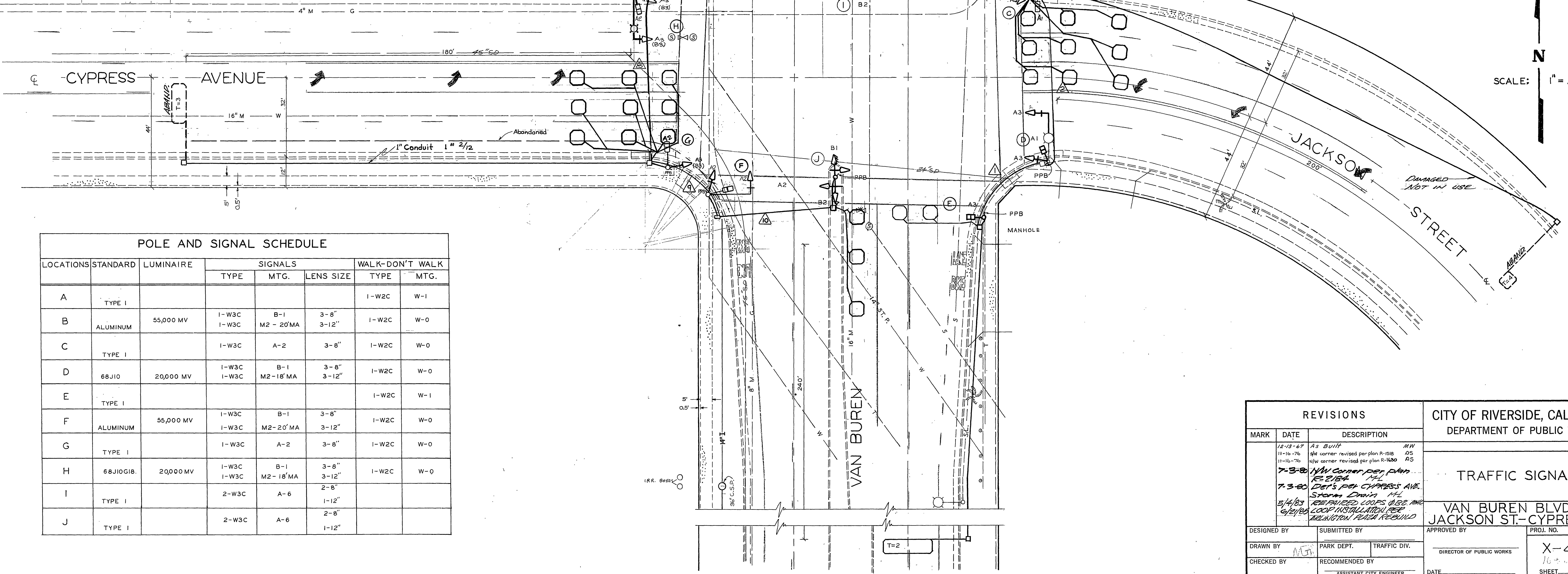
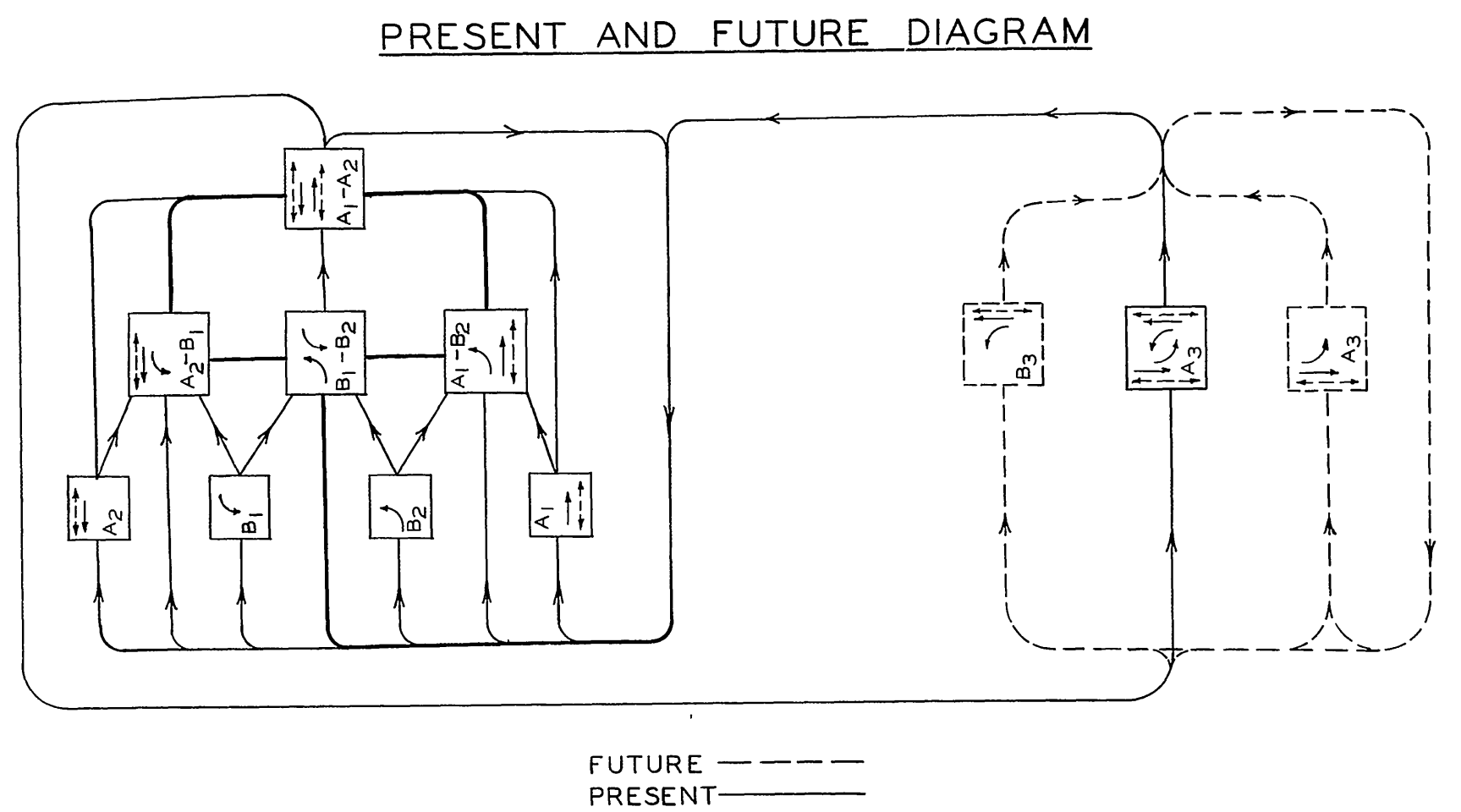
ENGINEER IN RESPONSIBLE CHARGE
 GEORGE H. KAMRATH
 No. 16152
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 DATE: 6-5-89

REVISIONS			CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
MARK	DATE	DESCRIPTION	MODIFICATIONS	
			TRAFFIC SIGNALS	
			VAN BUREN BLVD. & JACKSON ST.-CYPRESS AVE.	
			APPROVED BY: <i>George H. Kamrath</i> DIRECTOR OF PUBLIC WORKS	PROJ. NO. 822-4
DESIGNED BY: <i>JW</i>	SUBMITTED BY:		CHECKED BY: <i>JW</i>	DATE: 6/19/89
DRAWN BY: <i>MC</i>	PARK DEPT.:	TRAFFIC DIV.	RECOMMENDED BY: <i>JW</i>	DATE: 6/19/89
			ASSISTANT CITY ENGINEER	

X-419 SHEET 1 OF 1

CONDUCTOR RUN	CONDUCTOR SCHEDULE																																					
	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14										
Q A1																																						
Q A2																																						
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Q B1 DET																																						
Q B2 DET																																						
Q B3 DET(FUTURE)																																						
Q B3 CALL DET																																						
Q A1 PPB																																						
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TOTAL CONDUCTORS	1	7	5	2	1	7	10	2	1	12	10	2	1	15	15	2	1	12	13	2	8	21	24	2	1	9	19	2	1	8	16	2	1	5	14	1	4	9
CONDUIT SIZE	1 1/2"			2"				2"				2"				2"				2"			3"		2"		2"		2"									

* INDICATES 5A RUN, ○ CONDUCTORS IN RUN 5A TOTAL { 10/12 2/12 }
 RUN 5A IS 2" CONDUIT



POLE AND SIGNAL SCHEDULE							
LOCATIONS	STANDARD	LUMINAIRE	SIGNALS			WALK-DON'T WALK	
			TYPE	MTG.	LENS SIZE	TYPE	MTG.
A	TYPE I		I-W3C	B-1	3-8"	I-W2C	W-1
B	ALUMINUM	55,000 MV	I-W3C	M2-20' MA	3-12"	I-W2C	W-0
C	TYPE I		I-W3C	A-2	3-8"	I-W2C	W-0
D	68J10	20,000 MV	I-W3C	B-1	3-8"	I-W2C	W-0
			I-W3C	M2-18' MA	3-12"		
E	TYPE I					I-W2C	W-1
F	ALUMINUM	55,000 MV	I-W3C	B-1	3-8"	I-W2C	W-0
			I-W3C	M2-20' MA	3-12"		
G	TYPE I		I-W3C	A-2	3-8"	I-W2C	W-0
H	68J10G18	20,000 MV	I-W3C	B-1	3-8"	I-W2C	W-0
			I-W3C	M2-18' MA	3-12"		
I	TYPE I		2-W3C	A-6	2-8"		
					1-12"		
J	TYPE I		2-W3C	A-6	2-8"		
					1-12"		

REVISIONS			CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
MARK	DATE	DESCRIPTION	TRAFFIC SIGNALS VAN BUREN BLVD. & JACKSON ST.-CYPRESS AVE.	
	12-13-47	A.S. BUIH		
	11-16-76	NW corner revised per plan R-1518		
	11-16-76	NW corner revised per plan R-1630		
	7-3-80	NW corner per plan R-2184		
	7-3-80	Det's per CYPRESS AVE. Streets Division		
	5/14/89	REPLACED LUMINAIRE AND WALK-ON-RED LIGHTS	DESIGNED BY: _____ SUBMITTED BY: _____ APPROVED BY: _____ DRAWN BY: MGT. PARK DEPT. TRAFFIC DIV. DIRECTOR OF PUBLIC WORKS CHECKED BY: _____ RECOMMENDED BY: _____ ASSISTANT CITY ENGINEER PROJECT NO. 622-47 X-419 SHEET OF	