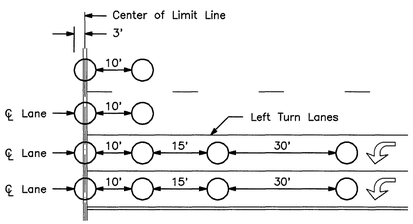
CONDUCTOR SCHEDULE

A.W.G. OR D.L.C.	CIRCUIT	RUNS 1	2	3	4	5	6	7	8	9	10	11
#14	Ø 1 VEHICLE							6	3	3	3	
	Ø 2 VEHICLE		3	3	3	3	3	6	3	3	3	
	Ø 3 VEHICLE					3	3	6	3			
	Ø 4 VEHICLE							6	3	3	3	3
	Ø 5 VEHICLE		3	3	3	3	3	3				
	Ø 6 VEHICLE				3	3	3	6	3			
	Ø 7 VEHICLE		3	3	3	3	3	6	3	3	3	3
	Ø 8 VEHICLE	(3)	(3)	3	3	3	3	3				
	Ø 2 PEDESTRIAN		2	2	2	2	2	4	2	2	2	
	Ø 4 PEDESTRIAN							4	2	2	2	2
	Ø 6 PEDESTRIAN				2	2	2	4	2			
	Ø 8 PEDESTRIAN	(2)	(2)	2	2	2	2	2				
	Ø 2 P.P.B.	(1)	(1)	1	1	1	1	1	1	1	1	1
	Ø 4 P.P.B.							2	2	1	1	1
	Ø 6 P.P.B.					1	1	1				
	Ø 8 P.P.B.		1	1	2	2	2					
	P.P.B. COMMON	(1)	(1)	1	1	1	1	2	1	1	1	1
	SPARES	(3)	(3)	3	3	3	3	6	3	3	3	3
	TOTAL #14	10	22	22	28	32	32	68	31	22	22	14
#12	I.I.S.N.S.		2	2	2	2	2		2	2	2	2
#10	SIGNAL COMMON	1	1	1	1	1	1	1	1	1	1	1
#8	LUMINAIRES		2	2	2	2	2		2	2	2	2
	SIGNAL SERVICE					2	2	2				
	TOTAL #8		2	2	2	4	4	2	2	2	2	2
D.L.C.	Ø 1 DETECTOR			4	4	4	4	4				
	Ø 2 DETECTOR							5	5	5	2	
	Ø 3 DETECTOR	(4)	(4)	4	4	4	4	4				
	Ø 4 DETECTOR							3				
	Ø 5 DETECTOR							2	2	2		
	Ø 6 DETECTOR			1	4	4	4	4				
	Ø 7 DETECTOR						2	2				
	Ø 8 DETECTOR	(3)	(3)	3	3	3	3	3				
	TOTAL D.L.C.	(7)	(7)	12	15	15	17	27	7	7		
INTERCONNECT								1	1	1		
CONDUIT SIZE		2"	3"	3.5"	3.5"	3.5"	3.5"	2-3"	3"	3"	2"	2"

(X) – indicates existing conduit run to remain.

(X) – indicates new conduit run to replace existing.

(X) – indicates new conductors to replace existing.

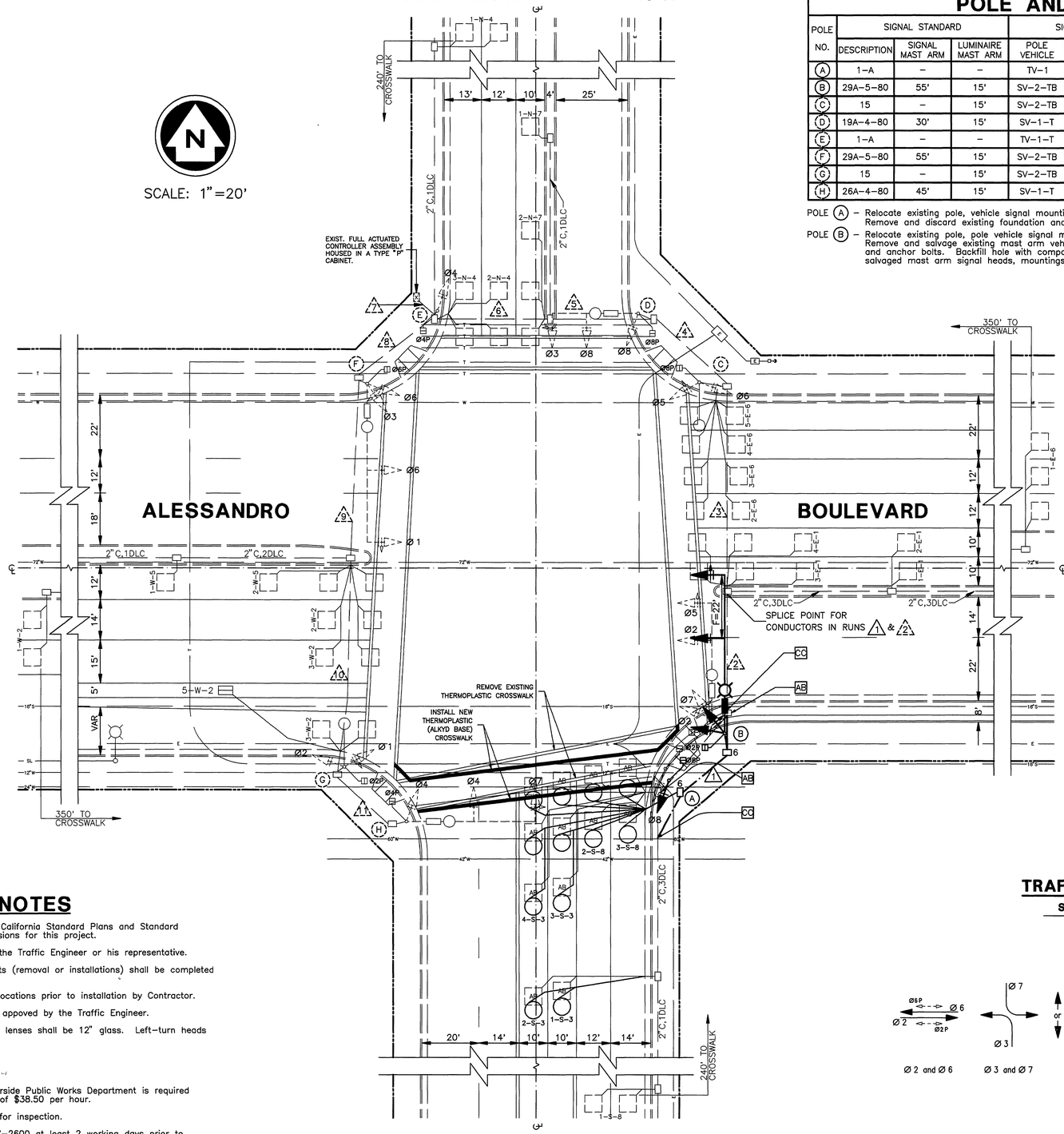


Loops shall be 6' diameter, centered in interior lanes, and installed 3' from lane lines in outside lanes

LOOP INSTALLATION DETAIL

MISSION GROVE PARKWAY NORTH

SCALE: 1"=20'



MISSION GROVE PARKWAY SOUTH

POLE AND EQUIPMENT SCHEDULE

POLE NO.	SIGNAL STANDARD DESCRIPTION	SIGNAL MAST ARM	LUMINAIRE MAST ARM	SIGNAL MOUNTING POLE VEHICLE	MAST ARM VEHICLE	POLE PEDESTRIAN	PED PUSH BUTTONS Ø	ARROW	HPSV LUMINAIRE	I.I.S.N.S.	REMARKS
(A)	1-A	–	–	TV-1	–	SP-1-1	2	→	–	–	RELOCATE EXISTING POLE (SEE BELOW)
(B)	29A-5-80	55'	15'	SV-2-TB	MAS/MAS	SP-1-T	8	←	250W	Mission Grove Pkwy N	RELOCATE EXISTING POLE (SEE BELOW)
(C)	15	–	15'	SV-2-TB	–	SP-1-T	8	→	250W	–	EXISTING POLE
(D)	19A-4-80	30'	15'	SV-1-T	MAS/MAS	SP-1-T	6	←	250W	Alessandro Blvd	EXISTING POLE
(E)	1-A	–	–	TV-1-T	–	SP-1-T	6	→	–	–	EXISTING POLE
(F)	29A-5-80	55'	15'	SV-2-TB	MAS/MAS	SP-1-T	4	←	250W	Mission Grove Pkwy N	EXISTING POLE
(G)	15	–	15'	SV-2-TB	–	SP-1-T	4	→	200W	–	EXISTING POLE
(H)	26A-4-80	45'	15'	SV-1-T	MAS/MAS	SP-1-T	2	←	200W	Alessandro Blvd	EXISTING POLE

POLE (A) – Relocate existing pole, vehicle signal mounting and head, pedestrian signal mounting and head to new foundation shown on the plan. Remove and discard existing foundation and anchor bolts. Backfill hole with compacted Class II Aggregate Base.

POLE (B) – Relocate existing pole, pole vehicle signal mounting and heads, pedestrian mounting and head to new foundation shown on the plan. Remove and salvage existing mast arm vehicle signal mountings, signal heads and I.I.S.N.S. Remove and discard existing foundation and anchor bolts. Backfill hole with compacted Class II Aggregate Base. Install new 55' mast arm on relocated pole and install salvaged mast arm signal heads, mountings and I.I.S.N.S.

DETECTOR SCHEDULE

CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1-W-5	1	●
2	2-W-5	3	
1,2	1-W-2	2	■●
1	2-W-2	2	
2	3-W-2	2	
1	4-W-2	2	▲
2,1	1-N-4	2	●
2	2-N-4	2	
1	3-N-4	2	▲
2	1-N-7	1	●
1	2-N-7	3	
2,1	1-E-6	3	■●
2	2-E-6	2	
1	3-E-6	2	
2	4-E-6	2	
1	1-E-1	1	●
2	2-E-1	1	●
1	3-E-1	3	
2	4-E-1	3	
1,2	1-S-8	2	■●
1	2-S-8	(2)	
2	3-S-8	(2)	▲
1	1-S-3	(1)	●
2	2-S-3	(1)	●
1	3-S-3	(3)	
2	4-S-3	(3)	
1	5-W-2	1	

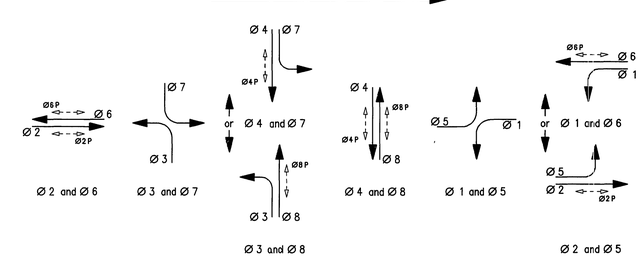
(X) NEW LOOP TO BE INSTALLED
■ CALL-HOLD (EXTENSION)
● FOR SAMPLING (FUTURE)
▲ DELAY
DETECTOR SHALL BE RACK-MOUNTED 2-CHANNEL (ALSO SEE SPECIAL PROVISIONS)

GENERAL NOTES

1. All work and material shall conform to the State of California Standard Plans and Standard Specifications dated July 1992 and the Special Provisions for this project.
2. Detector loops shall be installed in the presence of the Traffic Engineer or his representative.
3. All striping, pavement markings, and sign requirements (removal or installations) shall be completed at least on day prior to the scheduled turn on.
4. The Traffic Engineer shall approve pole and conduit locations prior to installation by Contractor.
5. Pull boxes shall be No. 5 unless otherwise noted or appoved by the Traffic Engineer.
6. All signal heads and back plates shall be metal. All lenses shall be 12" glass. Left-turn heads shall have red, yellow and green arrow sections.
7. This plan accurate for traffic signal work only.
8. See plan R-3442 for street improvements.
9. A "Street Opening permit issued by the City of Riverside Public Works Department is required for the work hereon. Inspection shall be at a rate of $38.50 per hour.
10. Call (909) 351-6096 at least 48 hours in advance for inspection.
11. Call UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600 at least 2 working days prior to excavation.

TRAFFIC PHASE DIAGRAM

STEADY DEMAND SEQUENCE



X-494

Underground Service Alert

CALL BEFORE YOU DIG

Call: TOLL FREE

1-800 227-2600

TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

REGISTERED PROFESSIONAL ENGINEER LAWRENCE S. EISENHART No. 13493 Exp. 3-31-97 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
Lawrence S. Eisenhart
LAWRENCE S. EISENHART RCE NO. 13493
EXPIRATION DATE: 3-31-97 DATE: 4/16/96

LAWRENCE S. EISENHART
CONSULTING ENGINEER
2048 Orange Tree Lane, Suite 208
Redlands, California 92374
Tel: (909) 793-9242 Fax: (909) 793-4863

SCALE: AS SHOWN
DATE: APRIL 1996

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: L.S.E. DRAWN BY: L.S.E. CHECKED BY:

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:	BY	DATE
PRINCIPLE ENGINEER		6/21/96
PUBLIC UTILITIES	—	—
TRAFFIC DIVISION		6/13/96
CHIEF P.W. ENGINEER		6/21/96
STREET SERVICES	—	—

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 6/21/96

TRAFFIC SIGNAL MODIFICATION PLAN
ALESSANDRO BOULEVARD and MISSION GROVE PARKWAY

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

ACCOUNT NO. ~~X-337~~

SHEET 1 OF 1

INDEXED 8-1-96 GH FILE W/R-3492

CONDUCTOR SCHEDULE

AWG	CONDUCTOR RUN	1	2	3	4	5	6	7	8	9	10	11
#14	ø1							6	3	3	3	
	ø2		3	3	3	3	3	6	3	3	3	
	ø3					3	3	6	3			
	ø4				3	3	3	6	3	3	3	(3)
	ø5		3	3	3	3	3	3				
	ø6				3	3	3	6	3			
	ø7		3	3	3	3	3	6	3	3	3	(3)
	ø8	(3)	(3)	3	3	3	3	3				
	ø2P		2	2	2	2	2	4	2	2	(2)	
	ø4P							4	2	2	2	(2)
	ø6P				2	2	2	4	2			
	ø8P	(2)	2	2	2	2	2	2				
	ø2 PPB	(1)	(1)	1	1	1	1	2	1	1	(1)	(1)
	ø4 PPB							2	2	1	1	(1)
	ø6 PPB					1	1	1				
	ø8 PPB		1	1	2	2	2					
	PPB COMMON	(1)	1	1	1	1	1	2	1	1	1	(1)
	SPARES	(3)	3	3	3	3	3	6	3	3	3	(3)
	TOTAL	(10)	22	22	28	32	32	72	31	22	22	(14)
#12	I.S.N.S.		2	2	2	2	2		2	2	2	(2)
#10	SIGNAL COMMON	(1)	1	1	1	1	1	1	1	1	1	(1)
# 8	LUMINAIRE		2	2	2	2	2		2	2	2	(2)
	SERVICE					2	2	2				
	TOTAL		2	2	2	4	4	2	2	2	2	(2)
DLC	ø1			4	4	4	4	4				
	ø2						3	3(2)	3(2)	3(2)	(2)	
	ø3	(4)	(4)	4	4	4	4	4				
	ø4							3				
	ø5							2	2	2		
	ø6			1	4	4	4	4				
	ø7						2	2				
	ø8	(3)	(3)	3	3	3	3	3				
	TOTAL DLC	(7)	(7)	12	15	15	17	27	7	7		
	INTERCONNECT							1	1	1		
	CONDUIT SIZE	(2")	3"	3½"	3½"	3½"	3½"	2-3"	3"	3"	2"	(2")

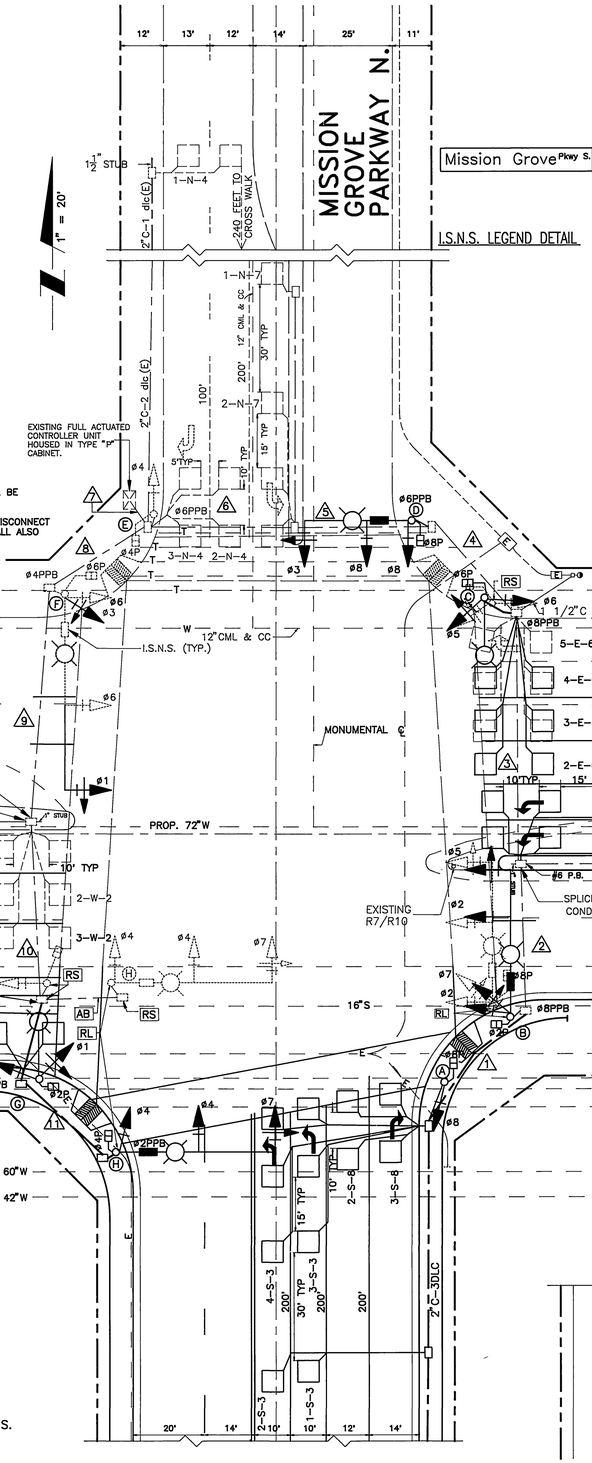
NOTE: CHANGE IN CONDUIT SIZES NOT REQUIRED.
(X) = TO BE INSTALLED THIS CONTRACT

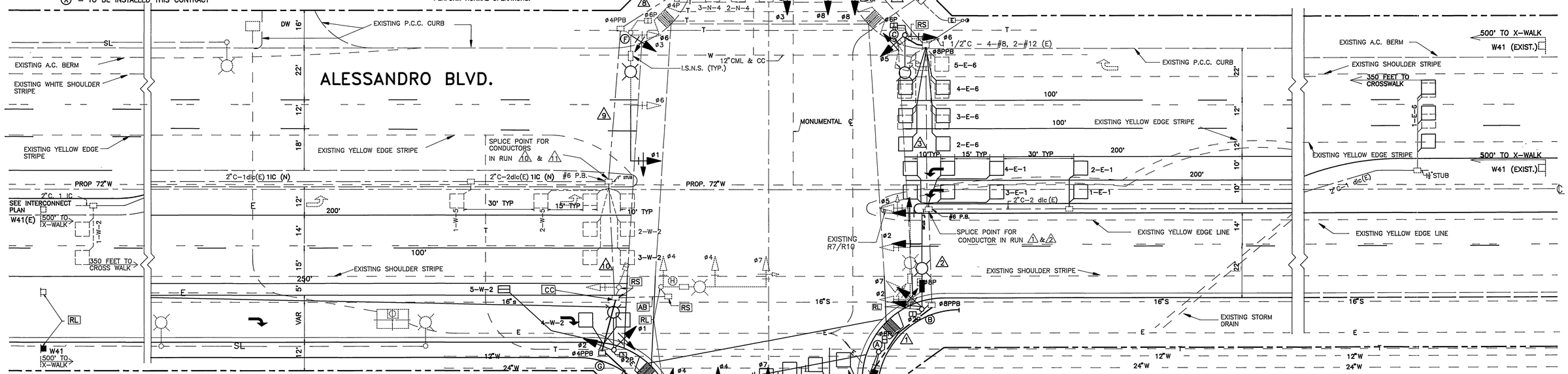
DETECTOR SCHEDULE

CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1–W–5	1	●
2	2–W–5	3	
1,2	1–W–2	2	■ ●
1	2–W–2	2	
2	3–W–2	2	
1	4–W–2	(2)	▲
2,1	1–N–4	2	■ ●
2	2–N–4	2	
1	3–N–4	2	▲
2	1–N–7	1	●
1	2–N–7	3	
2,1	1–E–6	(3)	■ ●
2	2–E–6	(2)	
1	3–E–6	(2)	
2	4–E–6	(2)	
1	1–E–1	(1)	●
2	2–E–1	(1)	●
1	3–E–1	(3)	
2	4–E–1	(3)	
1,2	1–S–8	(2)	■ ●
1	2–S–8	(2)	
2	3–S–8	(2)	▲
1	1–S–3	(1)	●
2	2–S–3	(1)	●
1	3–S–3	(3)	
2	4–S–3	(3)	
1	5–W–2	(1)	

(X) NEW LOOP TO BE INSTALLED
■ CALL–HOLD (EXTENSION)
● FOR SAMPLING (FUTURE)
▲ DELAY
DETECTOR SHALL BE RACK–MOUNTED 2–CHANNEL (ALSO SEE SPECIAL PROVISIONS)

NOTES:
1. DETECTOR TIMING AND SAMPLING FEATURES SHALL BE ACCOMPLISHED THROUGH INTERNAL LOGIC OF THE CONDUCTOR UNIT.
2. SEE SPECIAL PROVISIONS REGARDING DETECTOR DISCONNECT
3. DETECTOR LOOPS DESIGNATED FOR SAMPLING SHALL ALSO PERFORM NORMAL OPERATIONS.



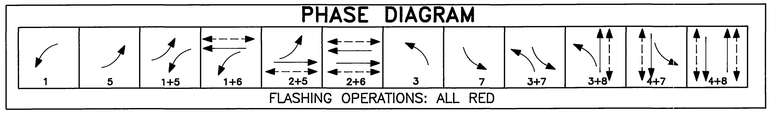


POLE SCHEDULE

POLE NO.	POLE TYPE	MAST ARM LENGTH SIGNAL	MAST ARM LENGTH LUMINAIRE	SIGNAL MOUNTING MA	SIGNAL MOUNTING POLE	SIGNAL MOUNTING PED	PPB ø	PPB QUAD	LUMINAIRE H.P.S.V.	I.S.N.S. LEGEND	REMARKS
(A)	1–A				TV–1	SP–1–T	2	N			NEW POLE
(B)	29A–5–80	40' (FUTURE 55')	15'	MAS	SV–2–TB	SP–1–T	8	W	250W (M)	Mission Grove Pkwy. S	RELOCATE EXISTING POLE
(C)	1–A(EXISTING) 15 (N)		15' (N)		SV–2–TB	SP–1–T	8	W	250W (N)		SALVAGE EXISTING POLE & EQUIPMENT
(D)	19A–4–80	30' (N)	15'	MAS (N)	SV–1–T	SP–1–T	6	S	250W (M)	Alessandro Blvd (N)	EXISTING POLE
(E)	1–A				TV–1–T	SP–1–T	6	S			EXISTING POLE
(F)	29A–5–80	55' (N)	15'	MAS	SV–2–TB	SP–1–T	4	E	250W (M)	Mission Grove Pkwy. N	EXISTING POLE SALVAGE ARM
(G)	1–A(EXISTING) 15 (N)		15' (N)		SV–2–TB	SP–1–T	4	E	250W (N)		SALVAGE EXISTING POLE
(H)	26A–4–80	45'	15'	MAS	SV–1–T	SP–1–T	2	N	250W (M)	Alessandro Blvd	RELOCATED EXISTING POLE

TYPE 1–A STANDARDS SHALL BE ALUMINUM.
ALL EQUIPMENT ARE EXIST. UNLESS OTHER NOTE: (N) = NEW (M) = MODIFIED EXIST. LUMINAIRE TO 250W

PHASE DIAGRAM



FLASHING OPERATIONS: ALL RED

GENERAL NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS DATED JANUARY 1988 AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
3. ALL STRIPING, PAVEMENT MARKINGS, AND SIGN REQUIREMENTS (REMOVAL OR INSTALLATIONS) SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO THE SCHEDULED TURN ON.
4. THE ENGINEER SHALL APPROVE POLE AND CONDUIT LOCATIONS PRIOR TO INSTALLATION BY CONTRACTOR.
5. PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED.
7. ALL SIGNAL HEADS AND BACK PLATES SHALL BE METAL, ALL LENSES SHALL BE 12" GLASS. LEFT–TURN HEADS SHALL HAVE RED, YELLOW AND GREEN ARROWS SECTIONS.
8. SEE STREET IMPROVEMENT PLANS FOR ROADWAY CONSTRUCTIONS DETAILS.
9. SEE SHEET 42 AND 48 FOR STRIPING, SIGNING AND MARKINGS DETAILS.

SPECIAL NOTE:

SEE STREET IMPROVEMENT PLANS SHEETS NO 14, 20, & 21 FOR ADDITIONSAL SIGNAL CONDUIT & PULLBOX INSTALLATIONS LOCATIONS. ALSO SEE TRAFFIC SIGNAL PLAN SHEET 53 FOR POLE DETAILS.

X-494

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

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

REGISTERED PROFESSIONAL ENGINEER JIMMY W. SIMS No. 35458 Exp. 9/2/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: JIMMY W. SIMS R.C.E. 35458
EXPIRATION DATE: 9-31-91 DATE: 10/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S Mt Vernon Ave, Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 20'-0"
DATE: 4-19-88
BENCH MARK:

MARK	REVISIONS	APPR	DATE

DESIGNED BY B.D. DRAWN BY K.T.O. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	BY	DATE
APPROVED BY		
PRINCIPAL ENGINEER		12/1/89
PARK DEPARTMENT		12/1/89
TRAFFIC DIVISION		12/14/89
CHIEF P W ENGR.		
PUBLIC UTILITIES		12/18/89

APPROVED BY: DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
SIGNAL PLANS
ALESSANDRO BLVD
AT
MISSION GROVE PKWY

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

PROJECT NO ~~R-3056~~ ~~IX-3371~~
SHEET 52 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 HH

CONDUCTOR SCHEDULE

AWG	CONDUCTOR RUN	1	2	3	4	5	6	7	8	9	10	11	12
# 14	Φ1					3	3	3	3	3	3	3	
	Φ2		3	3	3	6	3	3	3	3	3	3	
	Φ3					3	3	3	3	3			
	Φ4					3	3	3	3	3	3	3	3
	Φ5		3	3	3	3							
	Φ6				3	6	3	3	3	3			
	Φ7		3	3	3	6	3	3	3	3	3	3	3
	Φ8	3	3	3	3	6	3						
	Φ2P		2	2	2	4	2	2	2	2	2	2	
	Φ4P					2	2	2	2	2	2	2	2
	Φ6P				2	4	2	2	2	2			
	Φ8P	2	2	2	2	4	2						
	Φ2 PPB	1	1	1	1	2	1	1	1	1	1	1	1
	Φ4 PPB					2	2	2	2	2	1	1	1
	Φ6 PPB					2	2	1	1				
	Φ8 PPB		1	1	2	2							
	PPB COMMON	1	1	1	1	2	1	1	1	1	1	1	1
	SPARES	3	3	3	3	6	3	3	3	3	3	3	3
	TOTAL	10	18	22	22	28	28	66	66	38	38	32	32
# 12	I.S.N.S.		2	2	2		2	2	2	2	2	2	2
# 10	SIGNAL COMMON	1	1	1	1	2	1	1	1	1	1	1	1
#8	LUMINAIRE		2	2	2		2	2	2	2	2	2	2
	SERVICE					2							
	TOTAL		2	2	2	2	2	2	2	2	2	2	2
DLC	Φ1			4	4	4							
	Φ2					4	4	4	4	4	4		
	Φ3	2	2	2	2	2							
	Φ4					3	3	3	3				
	Φ5					2	2	2	2	2	2		
	Φ6			3	4	4							
	Φ7					2	2	2					
	Φ8	3	3	3	3	3							
	TOTAL DLC	5	5	12	12	13	13	24	24	11	11	11	11
	CONDUIT SIZE	2	3"	3½"	3½"	2-3"	3½"	3½"	3½	3"	3"	2"	2

(x) = FUTURE, TO BE INSTALLED UNDER SUBSEQUENT CONTRACT

DETECTOR SCHEDULE

CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1-W-5	1	
2	2-W-5	3	
1,2	1-W-2	2(3)	■●
1	2-W-2	2	
2	3-W-2	2	
1	4-W-2	(2)	
2,1	1-N-4	2	■●
2	2-N-4	2	
1	3-N-4	2	▲
2	1-N-7	1	●
1	2-N-7	3	
2,1	1-E-6	2(3)	■●
2	2-E-6	2	
1	3-E-6	2	
2	4-E-6	(2)	
1	1-E-1	(1)	●
2	2-E-1	(1)	●
1	3-E-1	(3)	
2	4-E-1	(3)	
1	1-S-3	(1)	●
2	2-S-3	(3)	
1,2	1-S-8	(2)	■●
1	2-S-8	(2)	
2	3-S-8	(2)	
2	5-E-6	2	▲
2	4-S-8	(2)	▲

(x) FUTURE
■ CALL-HOLD (EXTENSION)
● FOR SAMPLING (FUTURE)
▲ DELAY
DETECTORS SHALL BE RACK-MOUNTED 2-CHANNEL (ALSO SEE SPECIAL PROVISIONS)

NOTES:

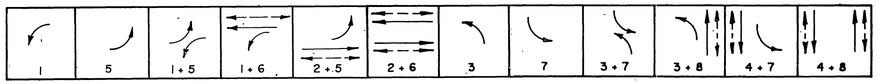
1. DETECTOR TIMING AND SAMPLING FEATURES SHALL BE ACCOMPLISHED THROUGH INTERNAL LOGIC OF THE CONTROLLER UNIT.
2. SEE SPECIAL PROVISIONS REGARDING DETECTOR DISCONNECT
3. DETECTOR LOOPS DESIGNATED FOR SAMPLING SHALL ALSO PERFORM NORMAL OPERATIONS.

POLE SCHEDULE

POLE NO.	POLE TYPE	MAST ARM LENGTH SIGNAL	MAST ARM LENGTH LUMINAIRE	SIGNAL MOUNTING MA	SIGNAL MOUNTING POLE	SIGNAL MOUNTING PED	PPB Φ	PPB QUAD	LUMINAIRE	I.S.N.S. LEGEND	REMARKS
A	I-A				TV-I	SP-I-T	2	N			FUTURE LOCATION
B-I	SPECIAL	55'	15'	MAS	SV-2-TB	SP-I-T	8	W	400W H.P.S.V.	Mission Grove Parkway South	FUTURE LOCATION
B	SPECIAL	40' (FUTURE 55')	15'	MAS	SV-2-TB	SP-I-T	8	W	400W H.P.S.V.	Mission Grove Parkway South	SEE I.S.N.S. LEGEND DETAIL
C	I-A				TV-2-T	SP-I-T	8	W			
D	19A-4-80	30' FUTURE	15'	MAS FUTURE	SV-I-T FUTURE	SP-I-T	6	S	400W H.P.S.V.	Alessandro Blvd.(FUTURE)	
E	I-A				TV-I-T	SP-I-T	6	S			
F	SPECIAL	40' (FUTURE 55')	15'	MAS	SV-2-TB	SP-I-T	4	E	400W H.P.S.V.	Mission Grove Parkway North	SEE I.S.N.S. LEGEND DETAIL
G	I-A				TV-I-T	SP-I-T	4	E			
G-I	I-A				TV-2-T	SP-I-T	4	E			FUTURE LOCATION
H	26A-4-80	45'	15'	MAS	SV-I-T	SP-I-T	2	N	400W H.P.S.V.	Alessandro Blvd.	

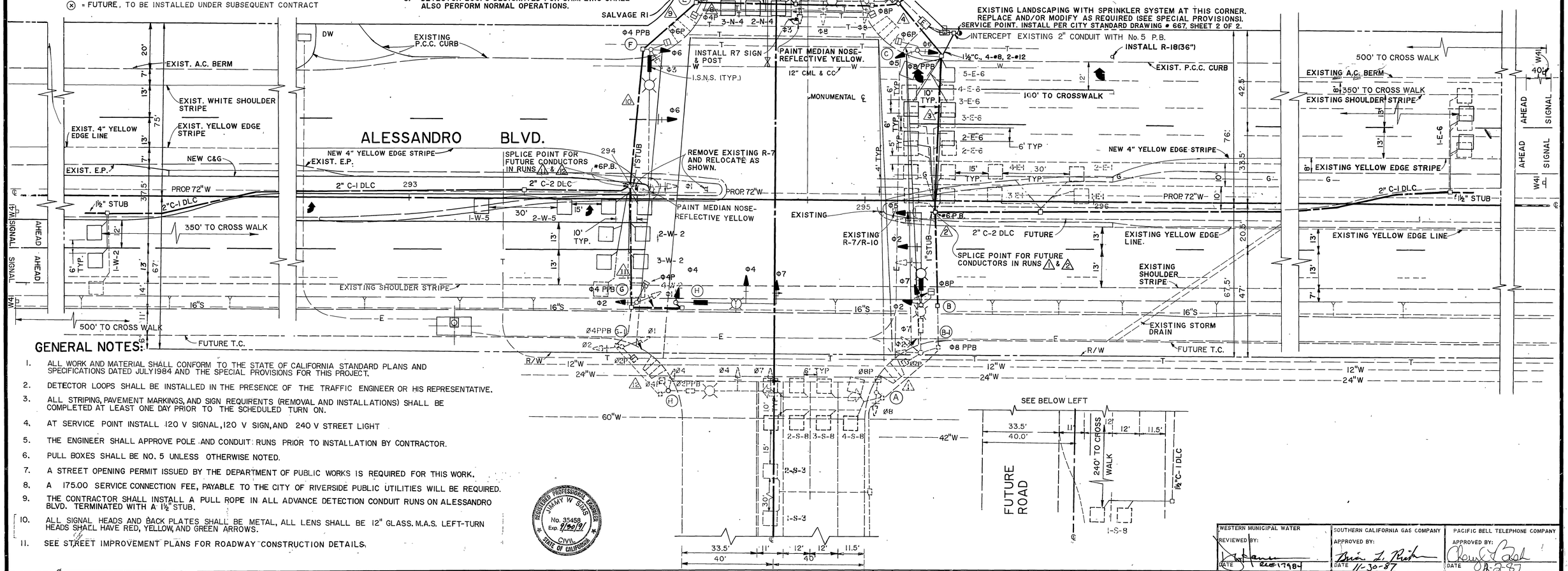
TYPE I-A STANDARDS SHALL BE ALUMINUM. SPECIAL POLE SHALL BE 35' IN HEIGHT.
FOUNDATIONS FOR SPECIAL POLES SHALL BE AS RECOMMENDED AND/OR CERTIFIED BY THE ENGINEER.

PHASE DIAGRAM



FLASHING OPERATIONS: ALL RED

NOTE: FUTURE SIGNAL FACILITIES SHOWN WITH DASHED LINE.



GENERAL NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS DATED JULY 1984 AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
3. ALL STRIPING, PAVEMENT MARKINGS, AND SIGN REQUIRENTS (REMOVAL AND INSTALLATIONS) SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO THE SCHEDULED TURN ON.
4. AT SERVICE POINT INSTALL 120 V SIGNAL, 120 V SIGN, AND 240 V STREET LIGHT
5. THE ENGINEER SHALL APPROVE POLE AND CONDUIT RUNS PRIOR TO INSTALLATION BY CONTRACTOR.
6. PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED.
7. A STREET OPENING PERMIT ISSUED BY THE DEPARTMENT OF PUBLIC WORKS IS REQUIRED FOR THIS WORK.
8. A 175.00 SERVICE CONNECTION FEE, PAYABLE TO THE CITY OF RIVERSIDE PUBLIC UTILITIES WILL BE REQUIRED.
9. THE CONTRACTOR SHALL INSTALL A PULL ROPE IN ALL ADVANCE DETECTION CONDUIT RUNS ON ALESSANDRO BLVD. TERMINATED WITH A 1½" STUB.
10. ALL SIGNAL HEADS AND BACK PLATES SHALL BE METAL, ALL LENS SHALL BE 12" GLASS. M.A.S. LEFT-TURN HEADS SHALL HAVE RED, YELLOW, AND GREEN ARROWS.
11. SEE STREET IMPROVEMENT PLANS FOR ROADWAY CONSTRUCTION DETAILS.

REGISTERED PROFESSIONAL ENGINEER JIMMY W. SMITH No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

WESTERN MUNICIPAL WATER	SOUTHERN CALIFORNIA GAS COMPANY	PACIFIC BELL TELEPHONE COMPANY
REVIEWED BY:	APPROVED BY:	APPROVED BY:
DATE 12-17-1987	DATE 11-30-87	DATE 12-2-87

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

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

PREPARED UNDER THE DIRECTION OF: Jimmy W. Smith
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE 9-30-91 DATE: 12/02/87
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493, RIVERSIDE, CA 92502, (714) 686-0844
11200 SO. MT. VERNON AVE. #D, COLTON, CA 92324, (714) 825-1082
73-080 EL PASEO, #103, PALM DESERT, CA 92260, (619) 346-5691
JFD ASSOCIATES

SCALE: 1" = 20'
DATE
BENCH MARK:

MARK	REVISIONS	APPR.	DATE

DESIGNED BY M.M. DRAWN BY C.M.M. CHECKED B.D.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		12-18-87
CHIEF P W ENGR.		12-18
PUBLIC UTIL. (ELEC.)		12-18-87

APPROVED BY Barry Beck
DIRECTOR OF PUBLIC WORKS
DATE 12/18/87

TRAFFIC SIGNALS
ALESSANDRO BLVD.
AT
MISSION GROVE PARKWAY N.

PROJECT NO. 86-9600
X-494
SHEET 1 OF
HORIZ SCALE: 1" = 20' VERT. SCALE: 1"
FILE NO.