

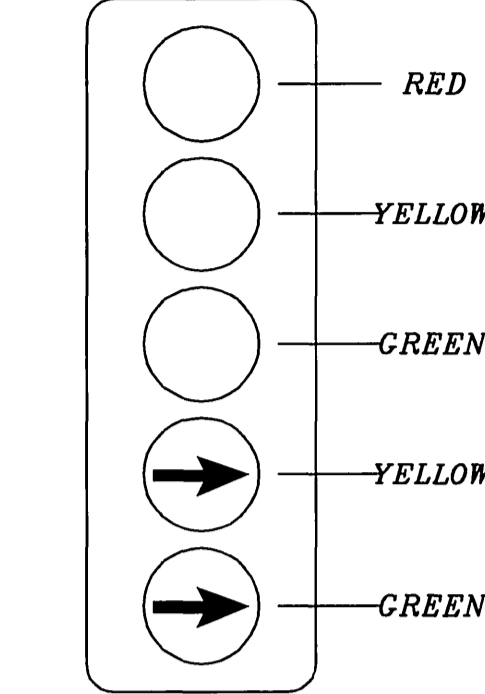
EQUIPMENT SCHEDULE

NO.	SIGNAL STANDARD			LUMINAIRE		I.I.S.N.S.		SIGNAL MOUNTINGS			PPB	REMARKS	
	TYPE	H'GHT	M.A.	L.A.	H.P.S.V.	LEGEND	VEHICLE	PEDESTRIAN	AUDIBLE	PHASE			
(A)	26-4-129	30'	40'	12'	250W	VAN BUREN	BLVD 3800	2-MAS	SV-1-T	SP-1-T	((P))	4	REMOVE/SALVAGE EX. POLE/EQUIP.
(B)	1A	10'						TV-1-T	SP-1-T		((C))	6	REMOVE/SALVAGE EX. POLE/EQUIP.
(C)	29-5-129	30'	55'	12'	250W	MAGNOLIA	AVE 3400	3-MAS	SV-1-T	SP-1-T	((C))	6	REMOVE/SALVAGE EX. POLE/EQUIP.
(D)	1A	10'						TV-1-T	SP-1-T		((P))	8	REMOVE/SALVAGE EX. POLE/EQUIP.
(E)	26-4-129	30'	40'	12'	250W	VAN BUREN	BLVD 3200	2-MAS	SV-1-T(5)	SP-1-T	((P))	8	REMOVE/SALVAGE EX. POLE/EQUIP.
(F)	1A	10'						TV-1-T	SP-1-T		((C))	2	REMOVE/SALVAGE EX. POLE/EQUIP.
(G)	29-5-129	30'	55'	12'	250W	MAGNOLIA	AVE 2500	3-MAS	SV-1-T	SP-1-T	((C))	2	REMOVE/SALVAGE EX. POLE/EQUIP.
(H)	1A(E)	10'						TV-1-T(E)	SP-1-T(E)		((P))	4	

NOTES: 1. ((C)) OR ((P)) - INDICATES AUDITORY PEDESTRIAN SIGNAL TO BE INSTALLED, ((C)) INDICATES CUCKOO SOUND; ((P)) INDICATES PEEP-PEEP SOUND.
 2. PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.

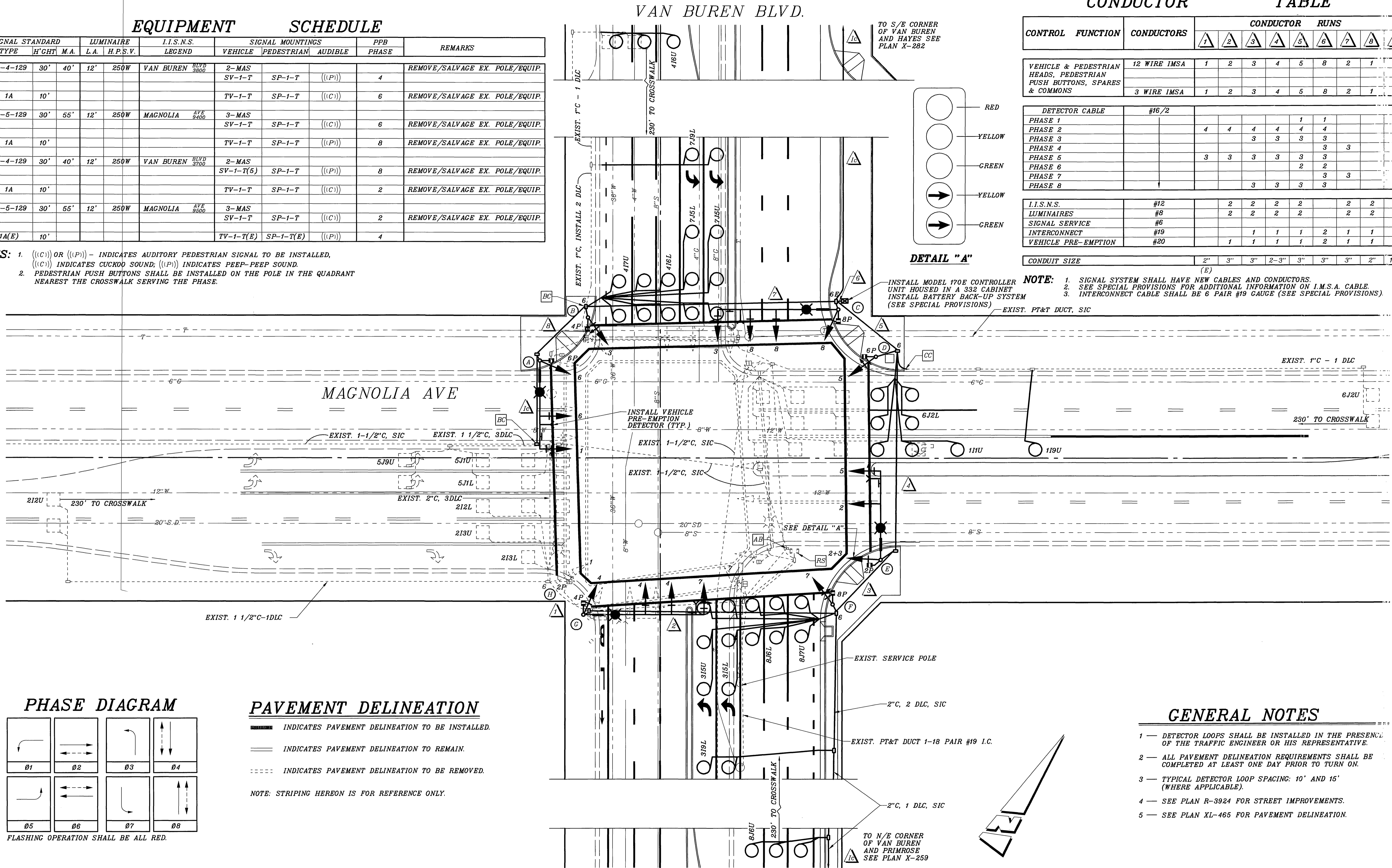
CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS								
		1	2	3	4	5	6	7	8	1c
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA 3 WIRE IMSA	1	2	3	4	5	8	2	1	
DETECTOR CABLE	#16/2					1	1			
PHASE 1										
PHASE 2		4	4	4	4	4	4			
PHASE 3				3	3	3	3			
PHASE 4								3	3	
PHASE 5		3	3	3	3	3	3			
PHASE 6								2	2	
PHASE 7										3
PHASE 8					3	3	3			
I.I.S.N.S.	#12		2	2	2	2			2	2
LUMINAIRES	#8		2	2	2	2			2	2
SIGNAL SERVICE	#6									
INTERCONNECT	#19			1	1	1	1	2	1	1
VEHICLE PRE-EMPTION	#20		1	1	1	1	2	1	1	1
CONDUIT SIZE		2"	3"	3"	2-3"	3"	3"	3"	2"	1.5"

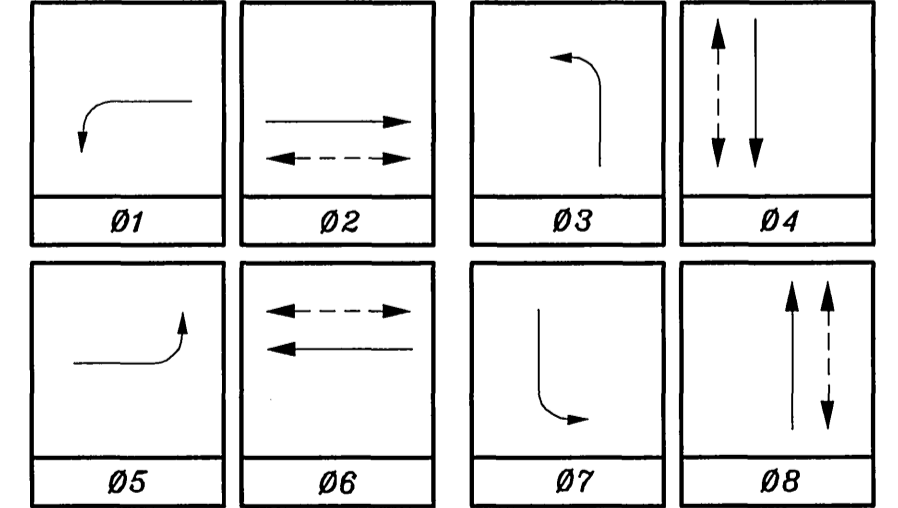


DETAIL "A"

NOTE: 1. SIGNAL SYSTEM SHALL HAVE NEW CABLES AND CONDUCTORS.
 2. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON I.M.S.A. CABLE.
 3. INTERCONNECT CABLE SHALL BE 6 PAIR #19 GAUGE (SEE SPECIAL PROVISIONS).



PHASE DIAGRAM



FLASHING OPERATION SHALL BE ALL RED.

PAVEMENT DELINEATION

INDICATES PAVEMENT DELINEATION TO BE INSTALLED.
 INDICATES PAVEMENT DELINEATION TO REMAIN.
 INDICATES PAVEMENT DELINEATION TO BE REMOVED.
 NOTE: STRIPING HEREON IS FOR REFERENCE ONLY.

GENERAL NOTES

- DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
- ALL PAVEMENT DELINEATION REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TURN ON.
- TYPICAL DETECTOR LOOP SPACING: 10' AND 15' (WHERE APPLICABLE).
- SEE PLAN R-3924 FOR STREET IMPROVEMENTS.
- SEE PLAN XL-465 FOR PAVEMENT DELINEATION.

IMPORTANT NOTICE
 Section 4216/4217 of the Government Code requires a Dig Alert identification number to be issued before a "permit to excavate" will be valid. For your Dig Alert ID, Number call
CALL TOLL FREE
 TWO WORKING DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
 1-800-227-2600

ENGINEER IN RESPONSIBLE CHARGE
 THOMAS JOHN BOYD
 R.C.E. No. 36170 expires 6/30/06
 DATE 5/19/06

REGISTERED PROFESSIONAL ENGINEER
 THOMAS JOHN BOYD
 No. 36170
 Exp. 06-30-2006
 CIVIL
 STATE OF CALIFORNIA

MARK REVISIONS APPR. DATE
 DESIGNED BY DRAWN BY CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
 APPROVED BY DATE 5/19/06
 PRINCIPAL ENGINEER
 TRAFFIC DIVISION
 DATE 5/19/06

TRAFFIC SIGNAL MODIFICATION
MAGNOLIA AVENUE
AT
VAN BUREN BLVD.
 SCALE: 1" = 20'

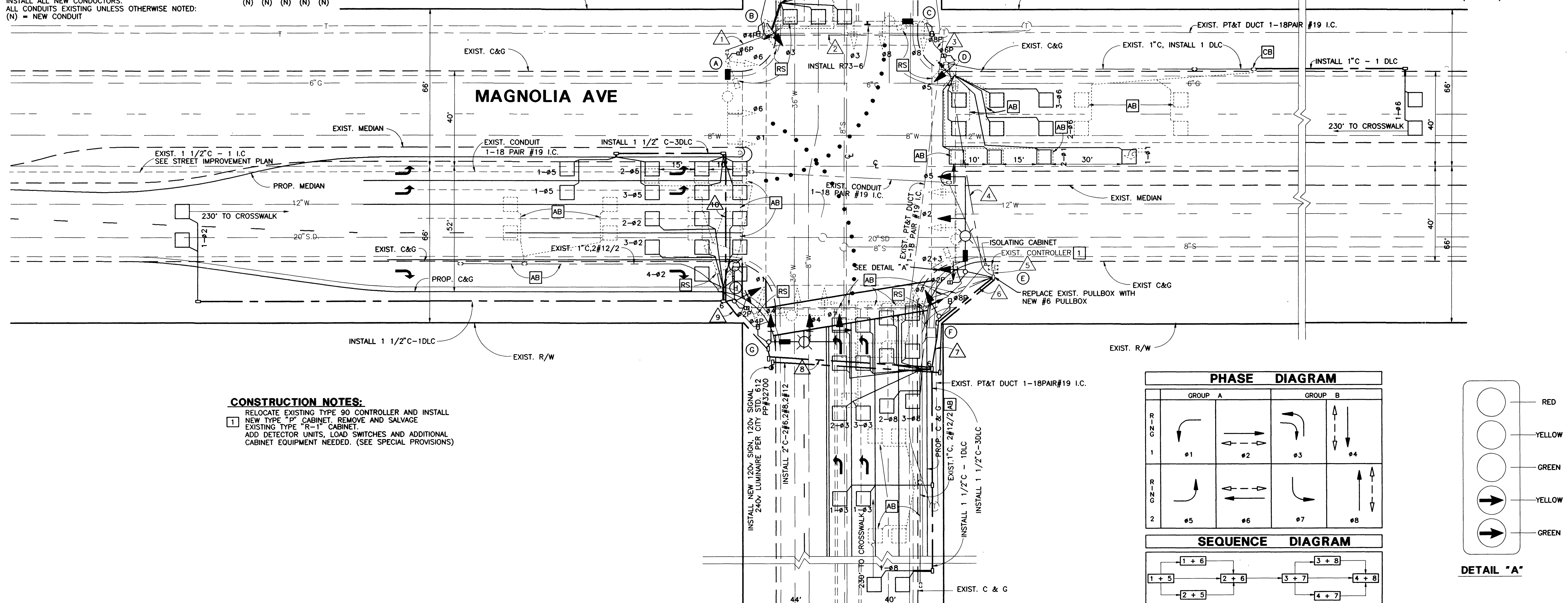
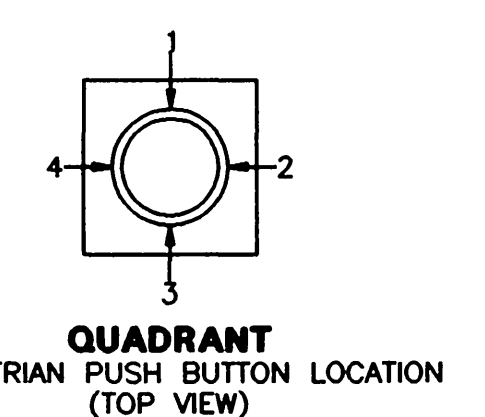
ACCT. NO. X-308C
 SHEET 1 OF 1
 FILE NAME: X308C.DWG

CONDUCTOR SCHEDULE		CONDUIT RUN									
AWG	CONDUCTOR	△	△	△	△	△	△	△	△	△	△
#14	#1	3	3	3	3	6	3	3	3	3	
	#2					3					
	#3		3	3	3						
	#4					3	3	3			
	#5					3	3				
	#6	3	3	3	3						
	#7					3	3	3			
	#8			3	3						
	#2PED					2	2	2	2	2	
	#4PED	2	2	2	2	4	2	2	2		
	#6PED	2	2	2	2						
	#8PED					2	2	4	2		
	#2PPB					2	2	1	1		
	#4PPB	1	1	1	1	2	1	1	1	1	1
#6PPB		1	2	2							
#8PPB											
PPB COMMON	1	1	1	1	2	1	1	1	1	1	
SPARE	3	3	3	3	3	3	3	3	3	3	
TOTAL #14		13	19	25	29	57	22	19	19	10	
#12	I.S.N.S.	2	2	2	2		2	2	2		
#10	SIGNAL COMMON	1	1	1	1	2	1	1	1	1	
#8	LUMINAIRE	2	2	2	2		2	2	2		
#6	SERVICE					2					
DLC	#1				2	2					
	#2				4	4	4	4	4		
	#3				3	3					
	#4	3	3	3	3		3	3	3	3	
	#5				3	3					
	#6				3	3					
	#7	2	2	2	2						
	#8				2	2					
TOTAL DLC		5	5	10	22	12	7	7	7	3	
CONDUIT SIZE		2"	2 1/2"	2 1/2"	3"	2-3"	3 1/2"	3"	3"	2 1/2"	2"

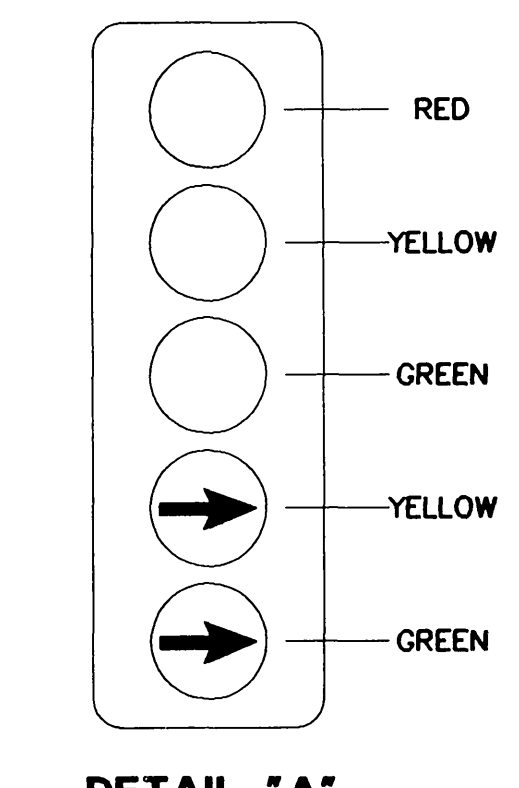
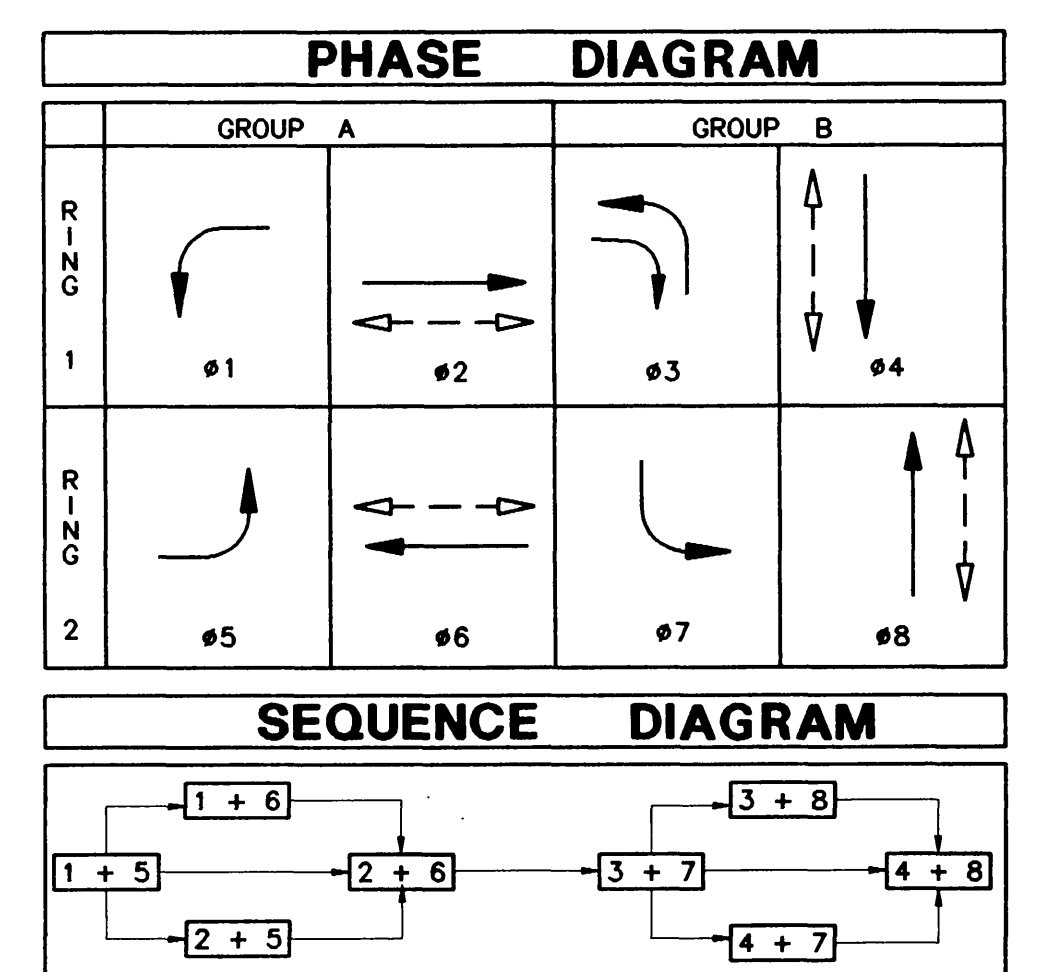
INSTALL ALL NEW CONDUCTORS.
ALL CONDUITS EXISTING UNLESS OTHERWISE NOTED:
(N) = NEW CONDUIT

POLE SCHEDULE												
NO.	TYPE	HEIGHT	MAST ARM LENGTH		SIGNAL MOUNTING			PPB	H.P.S. LUMINAIRE	I.S.N.S. LEGEND	REMARKS	
			SIGNAL	LUMINAIRE	MA	POLE	PED					
(A)	TYPE 24A	35'	35'	15'	2-MAS	SV-1-T	SP-1-T	Ø4	2	400 W.	Van Buren ^(N) ₃₈₀₀	REPLACE AND ROTATE EXIST. PED HEAD AS SHOWN.
(B)	TYPE 1	10'				TV-1-T	SP-1-T	Ø6	3			REPLACE AND ROTATE EXIST. PED HEAD AS SHOWN.
(C)	TYPE 19A	35'	30'	15'	2-MAS	SV-1-T	SP-1-T	Ø6	3	400 W.	Magnolia Ave ^(N) ₉₄₀₀	REPLACE AND ROTATE EXIST. PED HEAD AS SHOWN.
(D)	TYPE 1	10'				TV-1-T	SP-1-T	Ø8	4			REPLACE AND ROTATE EXIST. PED HEAD AS SHOWN.
(E)	26A-4-80 (N)	35'	40'	15'	2-MAS	SV-1-T	SP-1-T	Ø8	4	400 W.	Van Buren ^(N) ₃₇₀₀	INSTALL NEW POLE AND EQUIPMENT SALVAGE EXIST. POLE AND EQUIPMENT
(F)	TYPE 1	10'				TV-1-T	SP-1-T	Ø2	1			RELOCATE EXISTING POLE. REPLACE AND ROTATE EXIST. PED HEAD AS SHOWN.
(G)	19A-4-80 (N)	35'	30'	15'	2-MAS	SV-1-T	SP-1-T	Ø2	1	400 W.	Magnolia Ave ^(N) ₉₅₀₀	INSTALL NEW POLE AND EQUIPMENT SALVAGE EXIST. POLE AND EQUIPMENT
(H)	TYPE 30 (N)	35'		15'		SV-1-T	SP-1-T	Ø4	2	400 W.		INSTALL NEW POLE AND EQUIPMENT SALVAGE EXIST. POLE AND EQUIPMENT

EXACT POLE LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
ALL POLES AND EQUIPMENT EXISTING UNLESS OTHERWISE INDICATED
(N) = NEW
REPLACE EXIST. 8"-8"-12" LEFT TURN HEAD WITH 12" LEFT TURN HEAD ON ALL EXISTING TYPE 1 POLE

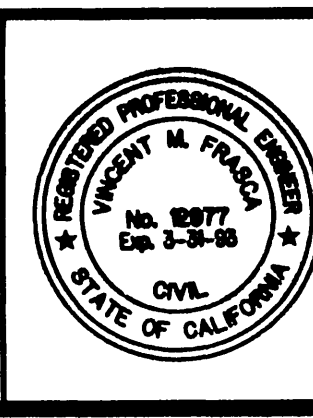


CONSTRUCTION NOTES:
1 RELOCATE EXISTING TYPE 90 CONTROLLER AND INSTALL NEW TYPE "P" CABINET. REMOVE AND SALVAGE EXISTING TYPE "R-1" CABINET.
ADD DETECTOR UNITS, LOAD SWITCHES AND ADDITIONAL CABINET EQUIPMENT NEEDED. (SEE SPECIAL PROVISIONS)



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
James B. Dobbins
REGISTERED CIVIL ENGINEER NO. 12977
EXPIRATION DATE: 3/31/93 DATE:
RECOMMENDED BY:
James B. Dobbins
James B. Dobbins DATE: 12-19-90

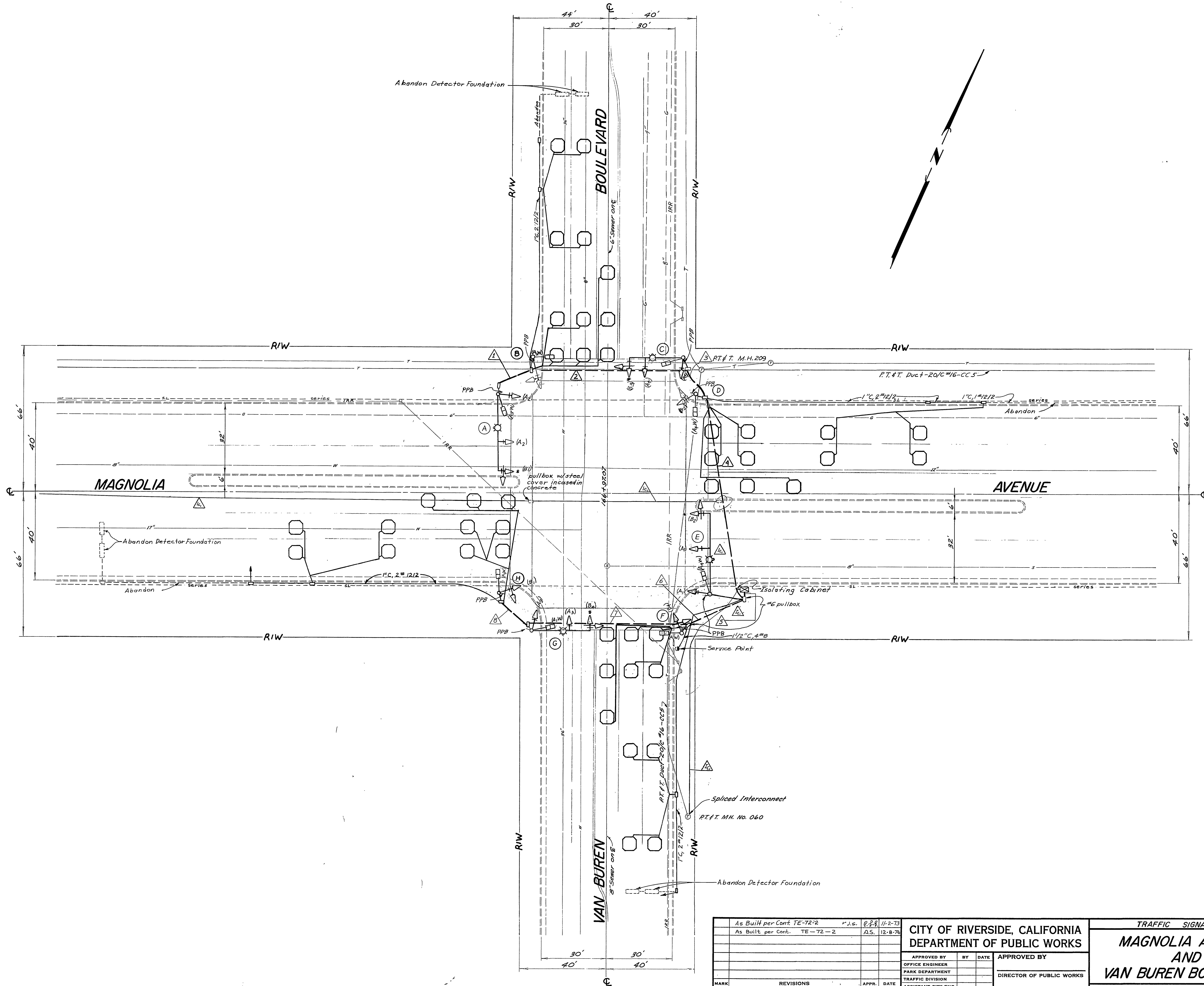
J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
MUNICIPAL ENGINEERING DIVISION
3426 TENTH STREET
RIVERSIDE, CA 92502
(714) 683-0209 FAX (714) 686-5807
SCALE: 1"=20'-0" BENCH MARK:
DATE: DECEMBER, 90

MARK REVISIONS APPR. DATE
DESIGNED BY K.T.O. DRAWN BY KTO/RDW CHECKED BY *[Signature]*

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: *[Signature]* BY: DATE:
PRINCIPAL ENGINEER
INSPECTION
TRAFFIC DIVISION
CHIEF P.W. ENGINEER
PUBLIC UTILITIES

TYLER MALL EXPANSION
C.F.D. # 90-2 IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN
MAGNOLIA AVENUE
AND
VAN BUREN BLVD.
HORIZ SCALE: 1" VERT. SCALE: 1"

PROJECT NO.
X-308
SHEET 1 OF 1
FILE NO:
8911175



As Built per Cont. TE-72-2		P.J.W. P.S.P. 11-2-73		CITY OF RIVERSIDE, CALIFORNIA		TRAFFIC SIGNALS		PROJECT NO.	
As Built per Cont. TE-72-2		A.S. 12-8-76		DEPARTMENT OF PUBLIC WORKS		MAGNOLIA AVENUE AND VAN BUREN BOULEVARD		X-308	
APPROVED BY		BY DATE		APPROVED BY		DIRECTOR OF PUBLIC WORKS		SHEET 1 OF 2	
OFFICE ENGINEER				DATE				FILE NO.	
PARK DEPARTMENT									
TRAFFIC DIVISION									
ASSISTANT CITY ENG.									
DESIGNED BY		DRAWN BY		CHECKED BY		HORIZ. SCALE: 1" = 20'		VERT. SCALE: 1" =	

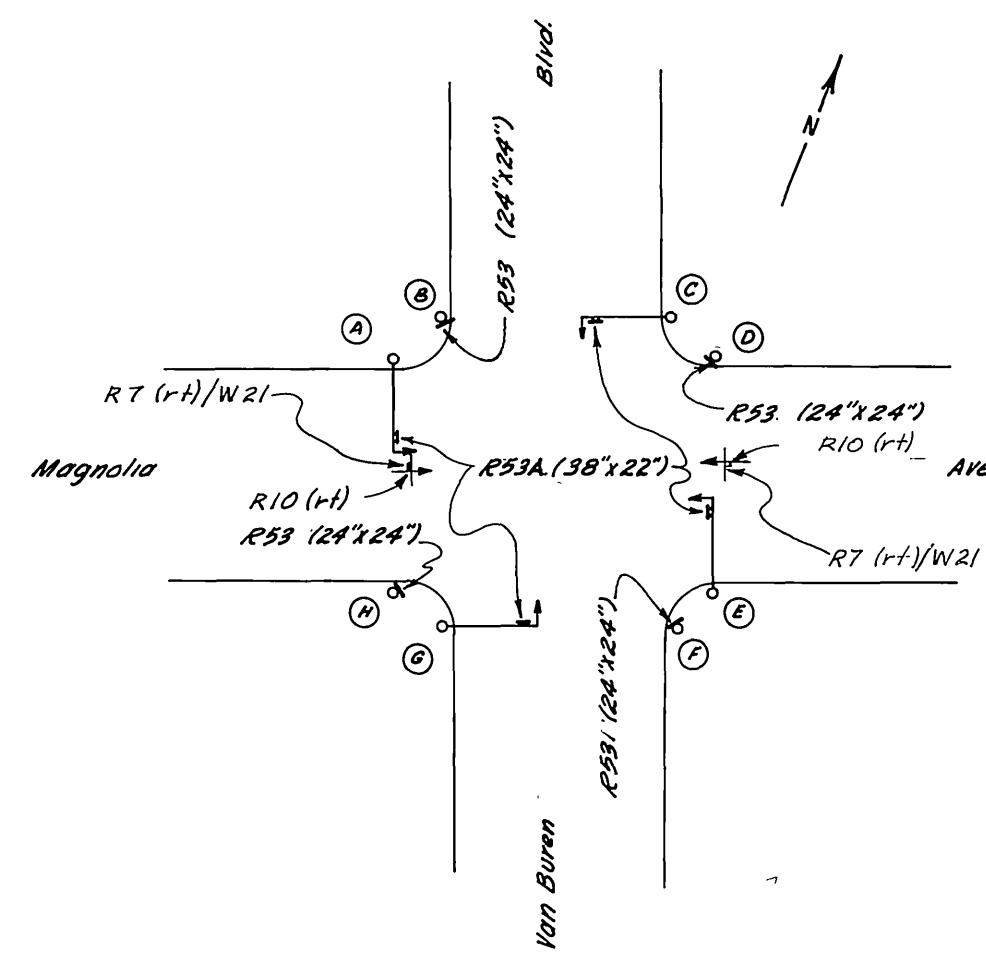
CONDUCTOR SCHEDULE

Control Function	Conductors Size	Insulation	Conduit Run																		
			1	2	3	4	5	6	7	8	1c	△									
Vehicle Heads	#14	T.W.																			
ΦA1																					
ΦA2			3	3	3	3	3	3													
ΦA3																					
ΦA4																					
ΦB1			3	3	3	3	3	3	3	3											
ΦB2																					
ΦB3			3	3	3	3	3	3	3	3											
ΦB4																					
Spares			3	3	3	3	3	3	3	3	3										
Pedestrian Heads																					
ΦA1W																					
ΦA2W																					
ΦA3W			2	2	2	2	2	2	2	2	2										
ΦA4W																					
Ped. Push Buttons																					
ΦA1W																					
ΦA2W																					
ΦA3W			1	1	1	1	1	1	1	1	1										
ΦA4W																					
Detector Cable	#12	P.E.																			
ΦA1																					
ΦA2																					
ΦA3																					
ΦA4																					
ΦB1																					
ΦB2																					
ΦB3																					
ΦB4																					
12V Common	#12	T.W.	1	1	1	1	1	1	1	1	1										
120V Common	#10		1	1	1	1	1	1	1	1	1										
Signal Service	#8																				
Luminaires		T.H.W.	2	2	2	2	2	2	2	2	2										
Interconnect	#16	P.E.																			
Totals	#14	T.W.	12	18	22	28	40	19	18	9											
	#12		1	1	1	1	1	1	1	1											
	#10		1	1	1	1	1	1	1	1											
	#8																				
		T.H.W.	2	2	2	2	2	2	2	2											
	#12	P.E.	4	4	8	16	8	4	4												
	#16																				
Conduit Size			2"	2 1/2"	2 1/2"	3"	2-3"	3"	2 1/2"	2"	1 1/2"										

SIGNING REQUIREMENTS

Location	Code No.	Size	Mounting	Facing	Remarks
A	R53A	38"x22"	O.H. Signal Arm	E	
B	R53	24"x24"	Signal Std.	S	
C	R53A	38"x22"	O.H. Signal Arm	S	
D	R53	24"x24"	Signal Std.	W	
E	R53A	38"x22"	O.H. Signal Arm	W	
F	R53	24"x24"	Signal Std.	N	
G	R53A	38"x22"	O.H. Signal Arm	N	
H	R53	24"x24"	Signal Std.	E	
I	R10 (r-t)	48"x16"	14' Wood Post	S	
J	R10 (r-t)	48"x16"	14' Wood Post	N	

SEE "SIGN LOCATION DIAGRAM"



SIGN LOCATION DIAGRAM
Scale: None

EQUIPMENT SCHEDULE

Location	Standard	Vehicle Equipment			Ped. Equipment			Luminaire	Remarks
		Head's	Mtg's	Back plate	Head's	Mtg's	PRB's		
A	Type XXIV	1W3C(6A)	M-2	1				400W	
	35'A, 18'L.A.	1W3C(12')	M-2	1					
		1W3C(12')	B-1	1	1W2C	W-0	1		
B	Type I	1W3C	A-2	1	2	1W2C	W-0	1	
		(R,Y, 12'GA)							
C	Type XII	1W3C(6A)*	M-2	1				400W	
	30'A, 15'L.A.	1W3C(12')	M-2	1					
		1W3C(12')	B-1	1	1W2C	W-0	1		
D	Type I	1W3C	A-2	1	2	1W2C	W-0	1	
		(R,Y, 12'GA)							
E	Type XXIV	1W3C(6A)*	M-2	1				400W	
	35'A, 18'L.A.	1W3C(12')	M-2	1					
		1W3C(12')	B-1	1	1W2C	W-0	1		
F	Type I	1W3C	A-2	1	2	1W2C	W-0	1	
		(R,Y, 12'GA)							
G	Type XII	1W3C(6A)*	M-2	1				400W	
	30'A, 15'L.A.	1W3C(12')	M-2	1					
		1W3C(12')	B-1	1	1W2C	W-0	1		
H	Type I	1W3C	A-2	1	2	1W2C	W-0	1	
		(R,Y, 12'GA)							
I									
J									

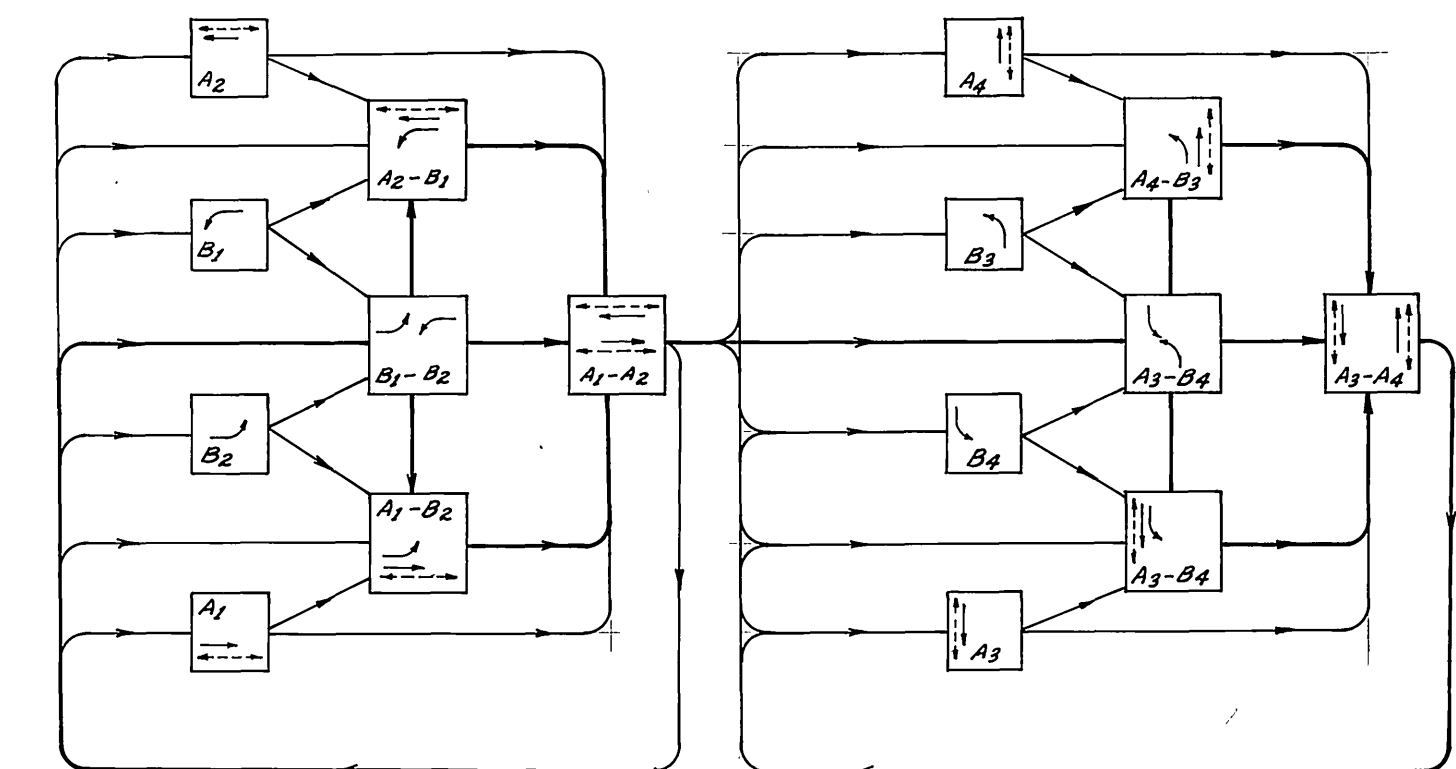
S.A. = Signal Arm L.A. = Luminaire Arm

* Programmed Visibility Signal Heads.

All Type I standards are aluminum.

Luminaires are High Pressure Sodium Vapor.

PHASE DIAGRAM

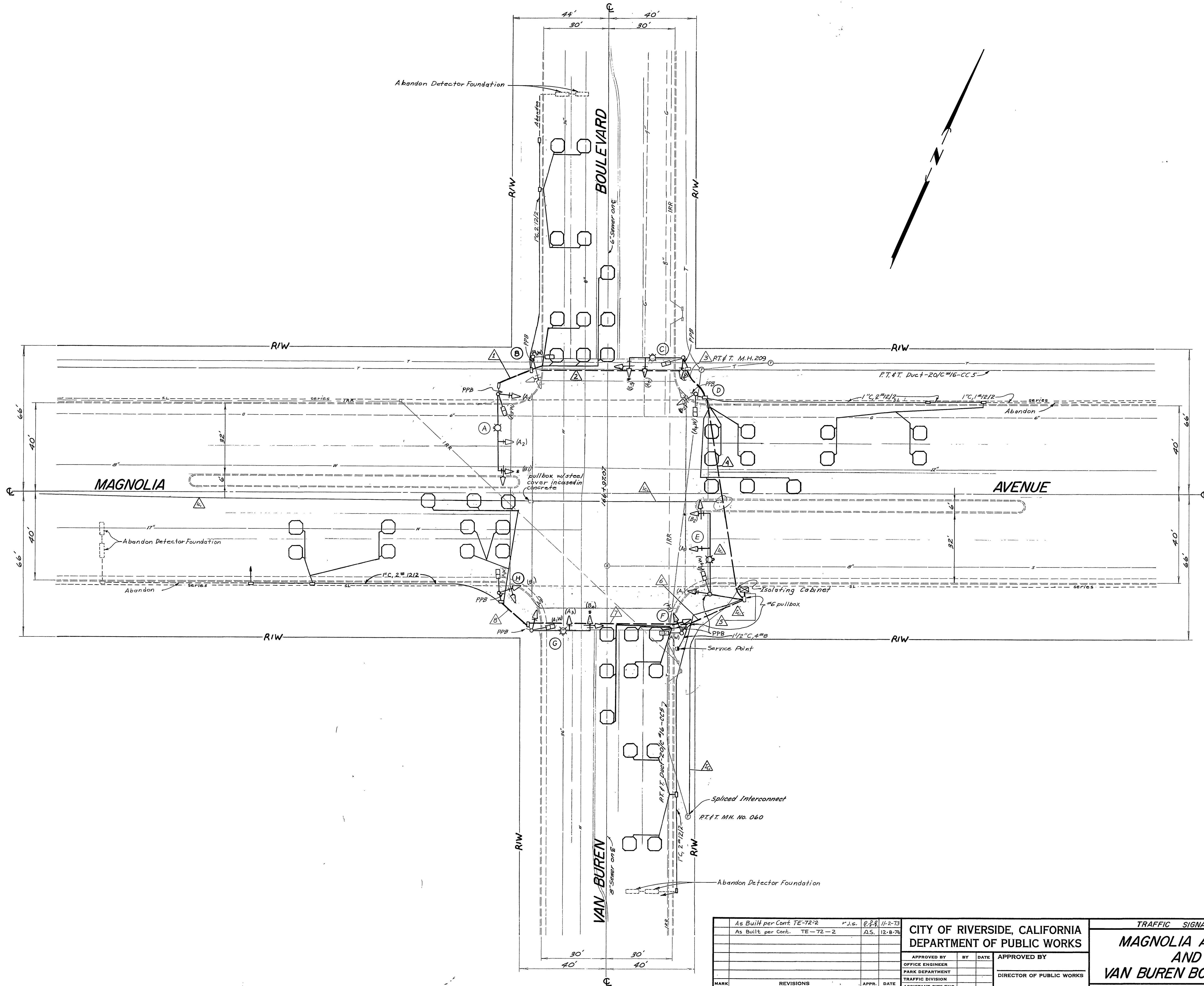


ΦA1, ΦA2, ΦA3 & ΦA4 - Type SP Modules

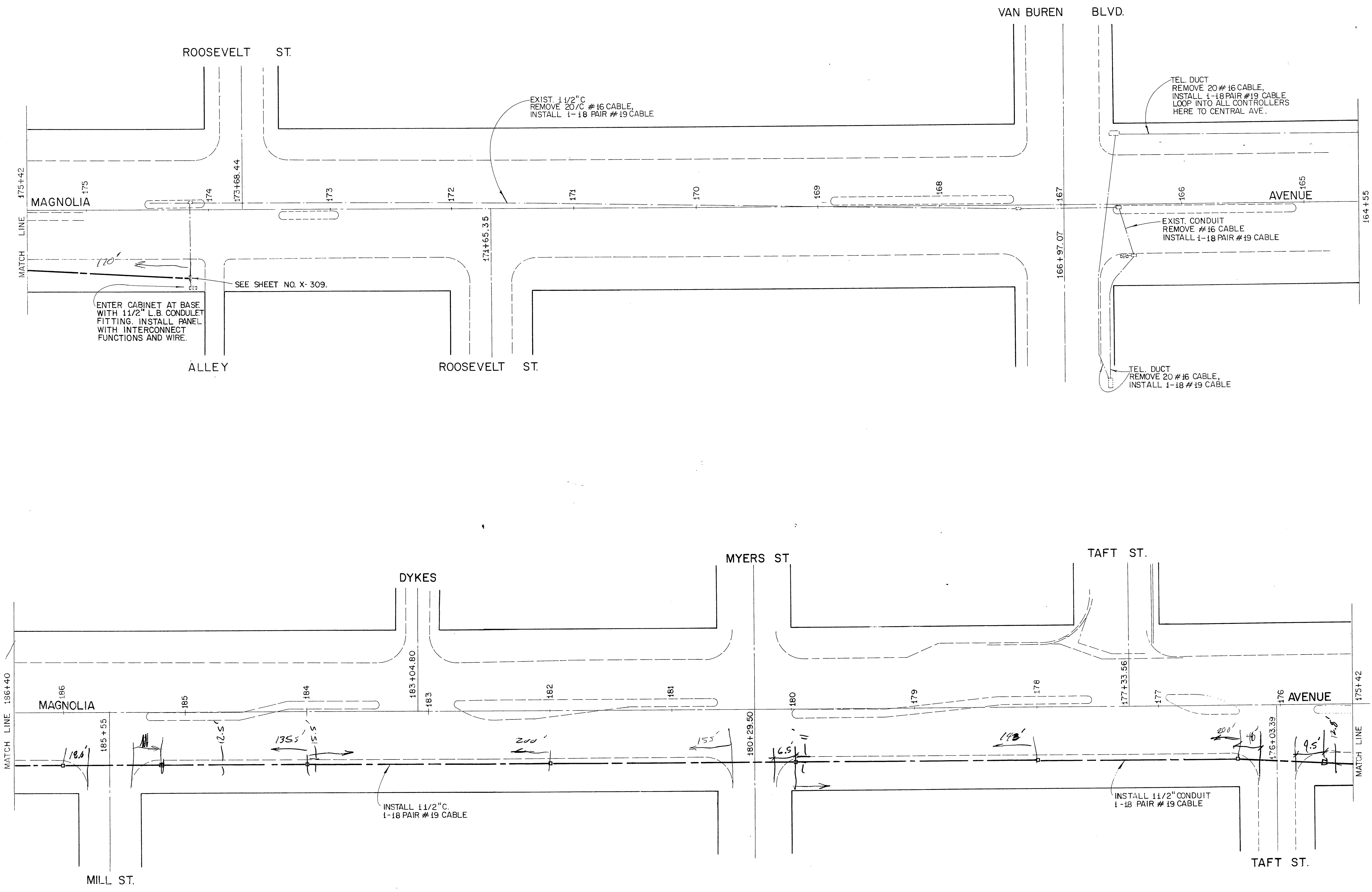
ΦB1, ΦB2, ΦB3 & ΦB4 - Type S Modules

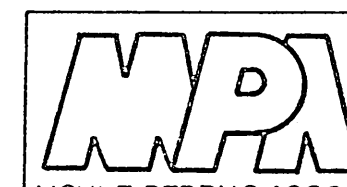
Flashing Indications: All Red

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT				EQUIPMENT & CONDUCTORS		ACCOUNT No. 84-451-630
APPROVED BY: _____ BY: _____ DATE: _____				MAGNOLIA AVE.		DRAWING NUMBER
PRINCIPAL ENGINEER: _____				& VAN BUREN BLVD.		X-308
As Built per Cont. TE-12-2. P.S. 10-21-73				DIRECTOR OF PUBLIC WORKS		SHEET 2 OF 2
REVISIONS: _____				CHIEF PUB. WKS. ENGR. _____		SCALE: NONE
DESIGNED BY: _____ DRAWN BY: MWX CHECKED BY: _____				DATE: _____		



As Built per Cont. TE-72-2		P.J.W. P.S.P. 11-2-73		CITY OF RIVERSIDE, CALIFORNIA		TRAFFIC SIGNALS		PROJECT NO.	
As Built per Cont. TE-72-2		A.S. 12-8-76		DEPARTMENT OF PUBLIC WORKS		MAGNOLIA AVENUE AND VAN BUREN BOULEVARD		X-308	
APPROVED BY		BY DATE		APPROVED BY		DIRECTOR OF PUBLIC WORKS		SHEET 1 OF 2	
OFFICE ENGINEER				DATE				FILE NO.	
PARK DEPARTMENT									
TRAFFIC DIVISION									
ASSISTANT CITY ENG.									
DESIGNED BY		DRAWN BY		CHECKED BY		HORIZ. SCALE: 1" = 20'		VERT. SCALE: 1" =	

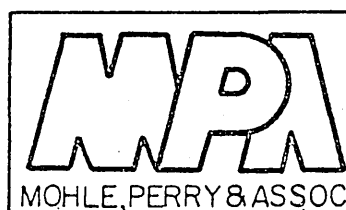
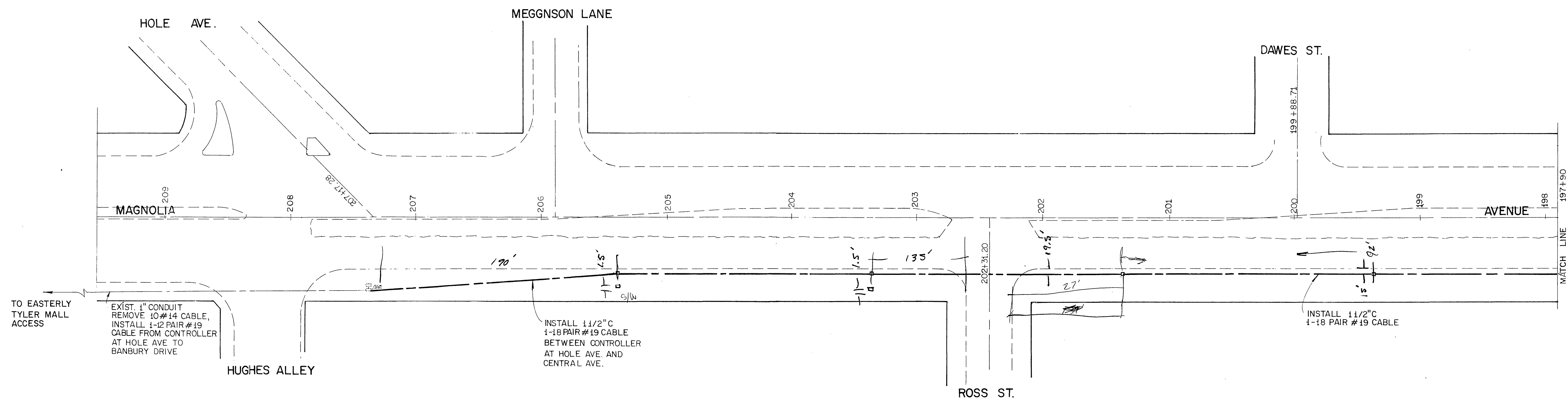
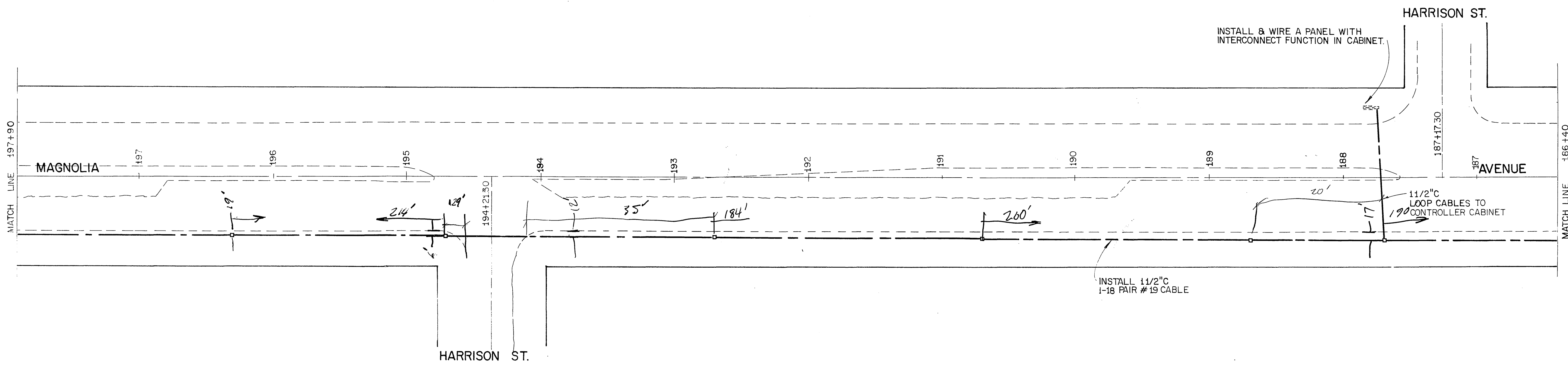



 PREPARED BY: *R. H. [Signature]* *10/9/92*
 MOHLE, PERRY & ASSOC. DESIGN ENGR. R.C.E. 10692 DATE

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS			
APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	<i>[Signature]</i>	<i>12/17/92</i>	<i>[Signature]</i>
PARK DEPARTMENT			DIRECTOR OF PUBLIC WORKS
TRAFFIC DIVISION	<i>[Signature]</i>	<i>12/17/92</i>	
CHIEF P. W. ENGR.	<i>[Signature]</i>	<i>12/17/92</i>	
PUBLIC UTILITIES	<i>[Signature]</i>	<i>12/17/92</i>	

INTERCONNECT DETAIL MAGNOLIA AVENUE E/O HARRISON ST. TO VAN BUREN BLVD.		PROJECT NO.
HORIZ. SCALE: 1" =		FILE NO.
VERT. SCALE: 1" =		SHEET 50 OF 50



PREPARED BY:
R.H. M
 DESIGN ENGR. R.C.E. 10692 DATE *10/9/82*

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS			
APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	<i>[Signature]</i>	<i>10/11/82</i>	<i>[Signature]</i>
PARK DEPARTMENT			DIRECTOR OF PUBLIC WORKS
TRAFFIC DIVISION			
CHIEF P. W. ENGR.			
PUBLIC UTILITIES			

INTERCONNECT DETAIL
 MAGNOLIA AVENUE
 HOLE AVE. TO HARRISON ST.

PROJECT NO.
 SHEET 49 OF 50
 FILE NO.

HORIZ. SCALE: 1" = 40'
 VERT. SCALE: 1" = 4'