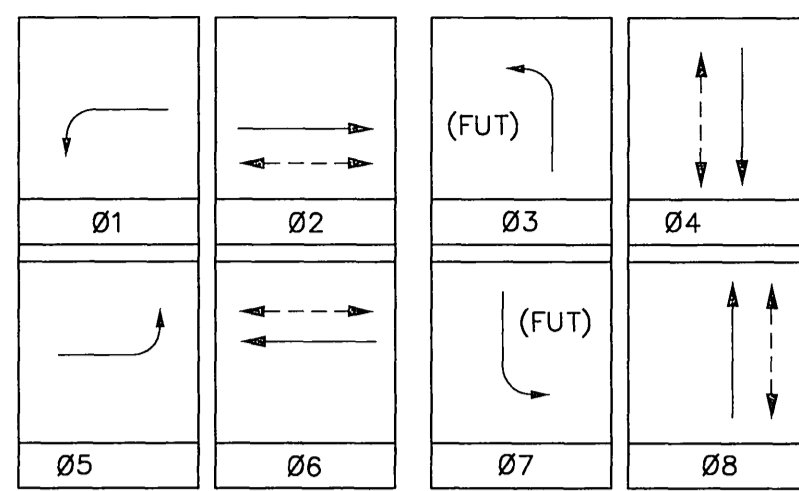


CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS								
		1	2	3	4	5	6	7	8	9
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA 9 WIRE IMSA 5 WIRE IMSA 3 WIRE IMSA	1	2	3	3	3	6	2	1	1
DETECTOR CABLE	#16/2						1			
PHASE 1						1				
PHASE 2							3	3	3	3
PHASE 3										
PHASE 4			1	1	1	1	1			
PHASE 5								1	1	1
PHASE 6					3	3	3			
PHASE 7										
PHASE 8							2	2		
PRIORITY PRE-EMPT INTERCONNECT CABLE	4#20 6 PAIR #19	1	1	2	2	2	4	1	1	1
I.I.S.N.S.	#12	2	2	2	2	2	1**	1**	1**	1**
LUMINAIRES	#8	2	2	2	2	2	2	2	2	2
SERVICE	#6									
CONDUIT SIZE		3"	3"	3"	3"	3"	2-3"	3"	3"	3"

PHASE DIAGRAM

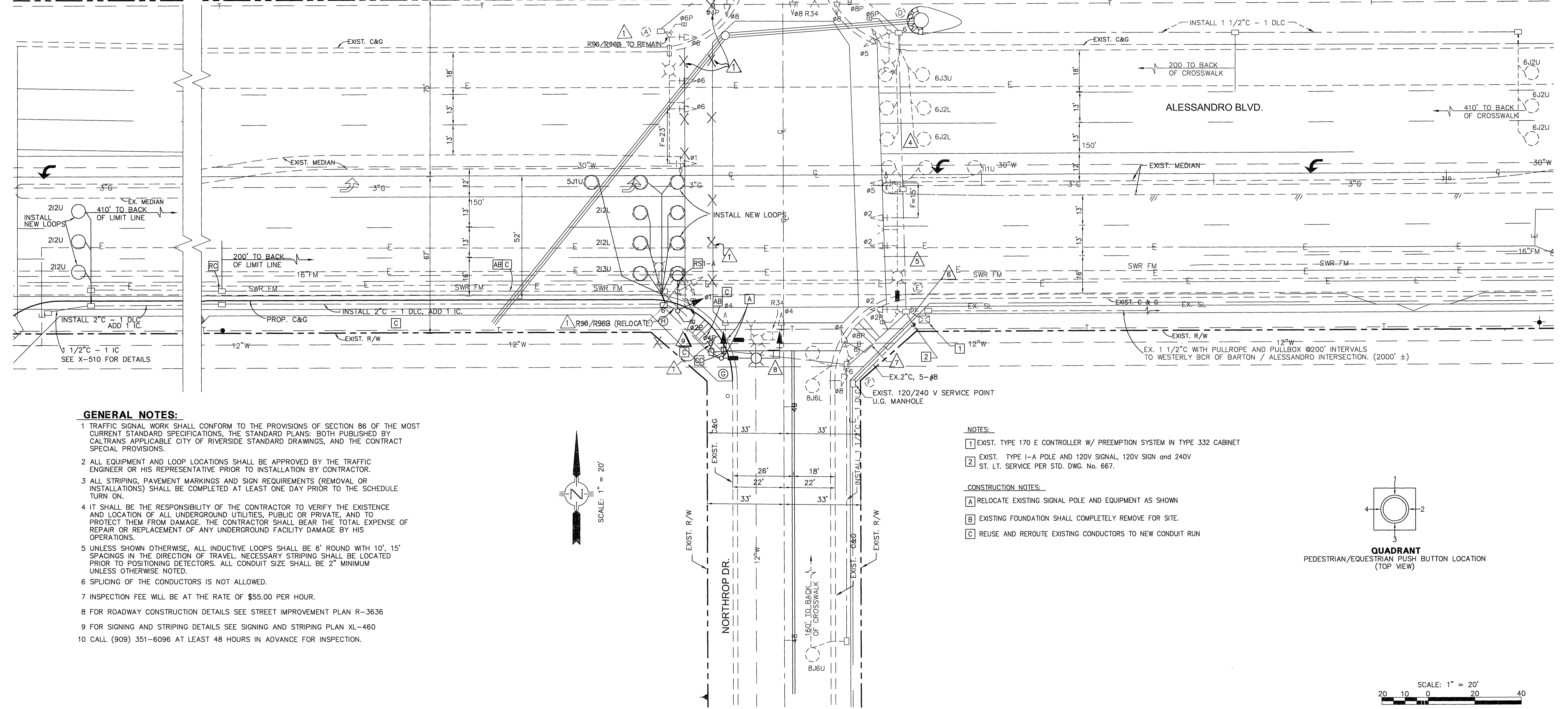


FLASHING OPERATION SHALL BE ALL RED.

POLE SCHEDULE

POLE NO.	TYPE	HEIGHT	MAST ARM LENGTH		SIGNAL MOUNTING			PPB	H.P.S.V. LUMINAIRE	I.I.S.N.S. LEGEND	REMARKS
			SIGNAL	LUMINAIRE	MA	POLE	PED				
(A)	29A-5-80	35'	55'	15'	3-MAS	SV-1-T	SP-1-T	2	400 W	Northrop ^{DR} 7300	
(B)	1-A	10'	-	-	-	TV-2-T	SP-1-T	6	3		
(C)	19-4-80	30'	20'	12'	MAS	SV-1-T	SP-1-T	6	3	Alessandro ^{BI} 600	
(D)	15	30'	-	-	-	SV-1-T	SP-1-T	8	4		
(E)	29A-5-80	35'	55'	15'	3-MAS	SV-1-T	SP-1-T	8	4	Northrop ^{DR} 7400	
(F)	1-A	10'	-	-	-	TV-2-T	SP-1-T	2	1		
(G)	19-4-80	30'	25'	12'	MAS	SV-1-T	SP-1-T	2	1	Alessandro ^{BI} 500	EXIST TO BE RELOCATE TO NEW LOCATION
(H)	15	30'	-	15'	-	SV-1-T	SP-1-T	2	1		INSTALL NEW POLE AND EQUIPMENT

ALL POLE AND EQUIPMENT EXIST TO BE PROTECTED IN PLACE UNLESS SEE REMARKS



GENERAL NOTES:

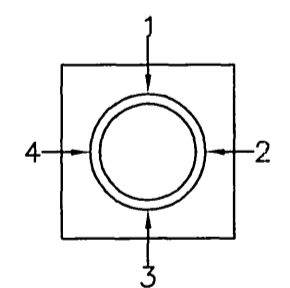
- 1 TRAFFIC SIGNAL WORK SHALL CONFORM TO THE PROVISIONS OF SECTION 86 OF THE MOST CURRENT STANDARD SPECIFICATIONS, THE STANDARD PLANS, BOTH PUBLISHED BY CALTRANS APPLICABLE CITY OF RIVERSIDE STANDARD DRAWINGS, AND THE CONTRACT SPECIAL PROVISIONS.
- 2 ALL EQUIPMENT AND LOOP LOCATIONS SHALL BE APPROVED BY THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE PRIOR TO INSTALLATION BY CONTRACTOR.
- 3 ALL STRIPING, PAVEMENT MARKINGS AND SIGN REQUIREMENTS (REMOVAL OR INSTALLATIONS) SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO THE SCHEDULE TURN ON.
- 4 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES, PUBLIC OR PRIVATE, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND FACILITY DAMAGE BY HIS OPERATIONS.
- 5 UNLESS SHOWN OTHERWISE, ALL INDUCTIVE LOOPS SHALL BE 6' ROUND WITH 10', 15' SPACINGS IN THE DIRECTION OF TRAVEL. NECESSARY STRIPING SHALL BE LOCATED PRIOR TO POSITIONING DETECTORS. ALL CONDUIT SIZE SHALL BE 2" MINIMUM UNLESS OTHERWISE NOTED.
- 6 SPLICING OF THE CONDUCTORS IS NOT ALLOWED.
- 7 INSPECTION FEE WILL BE AT THE RATE OF \$55.00 PER HOUR.
- 8 FOR ROADWAY CONSTRUCTION DETAILS SEE STREET IMPROVEMENT PLAN R-3636
- 9 FOR SIGNING AND STRIPING DETAILS SEE SIGNING AND STRIPING PLAN XL-460
- 10 CALL (909) 351-6096 AT LEAST 48 HOURS IN ADVANCE FOR INSPECTION.

NOTES:

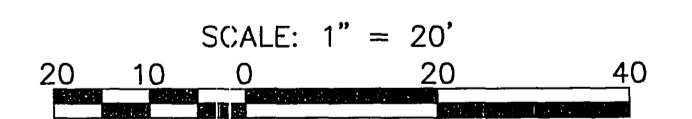
- 1 EXIST. TYPE 170 E CONTROLLER W/ PREEMPTION SYSTEM IN TYPE 332 CABINET
- 2 EXIST. TYPE I-A POLE AND 120V SIGNAL, 120V SIGN and 240V ST. LT. SERVICE PER STD. DWG. No. 667.

CONSTRUCTION NOTES:

- (A) RELOCATE EXISTING SIGNAL POLE AND EQUIPMENT AS SHOWN
- (B) EXISTING FOUNDATION SHALL COMPLETELY REMOVE FOR SITE.
- (C) REUSE AND REROUTE EXISTING CONDUCTORS TO NEW CONDUIT RUN



QUADRANT
PEDESTRIAN/EQUESTRIAN PUSH BUTTON LOCATION (TOP VIEW)



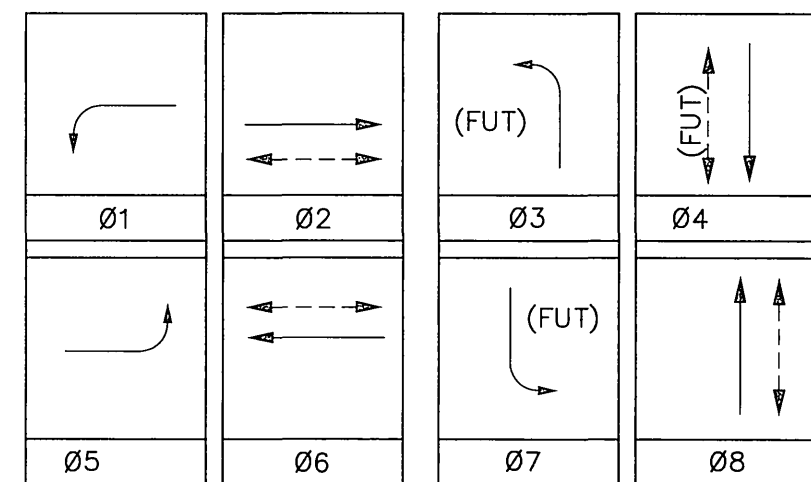
Underground Service Alert Call: TOLL FREE 1 - 800 227-2600 TWO WORKING DAYS BEFORE YOU DIG	PRIVATE ENGINEERING NOTE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR 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.	PREPARED UNDER THE DIRECTION OF: TECK C. LOH REGISTERED CIVIL ENGINEER NO. 50293 EXPIRATION DATE: 6-30-05 DATE: 1/10/02	 CANTY ENGINEERING GROUP, INC. CIVIL ENGINEERING - PLANNING - SURVEYING 2020 IOWA AVENUE, SUITE A-102, P.O. BOX 52050, RIVERSIDE, CA 92517 TEL (909) 683 - 5234 FAX (909) 683 - 5301	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY: PRINCIPAL ENGR. PARK DEPARTMENT TRAFFIC DIVISION P.W. ENGINEER, MGR. STREET SERVICES	SIGNAL MODIFICATION PLAN NORTHROP DR. AND ALESSANDRO BLVD. FOR: REGIONAL PROPERTIES	PROJECT NO. X-503A SHEET 1 OF 1 FILE NO.:

CONDUCTOR TABLE

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

SEE CONTRACT SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON I.M.S.A.

PHASE DIAGRAM

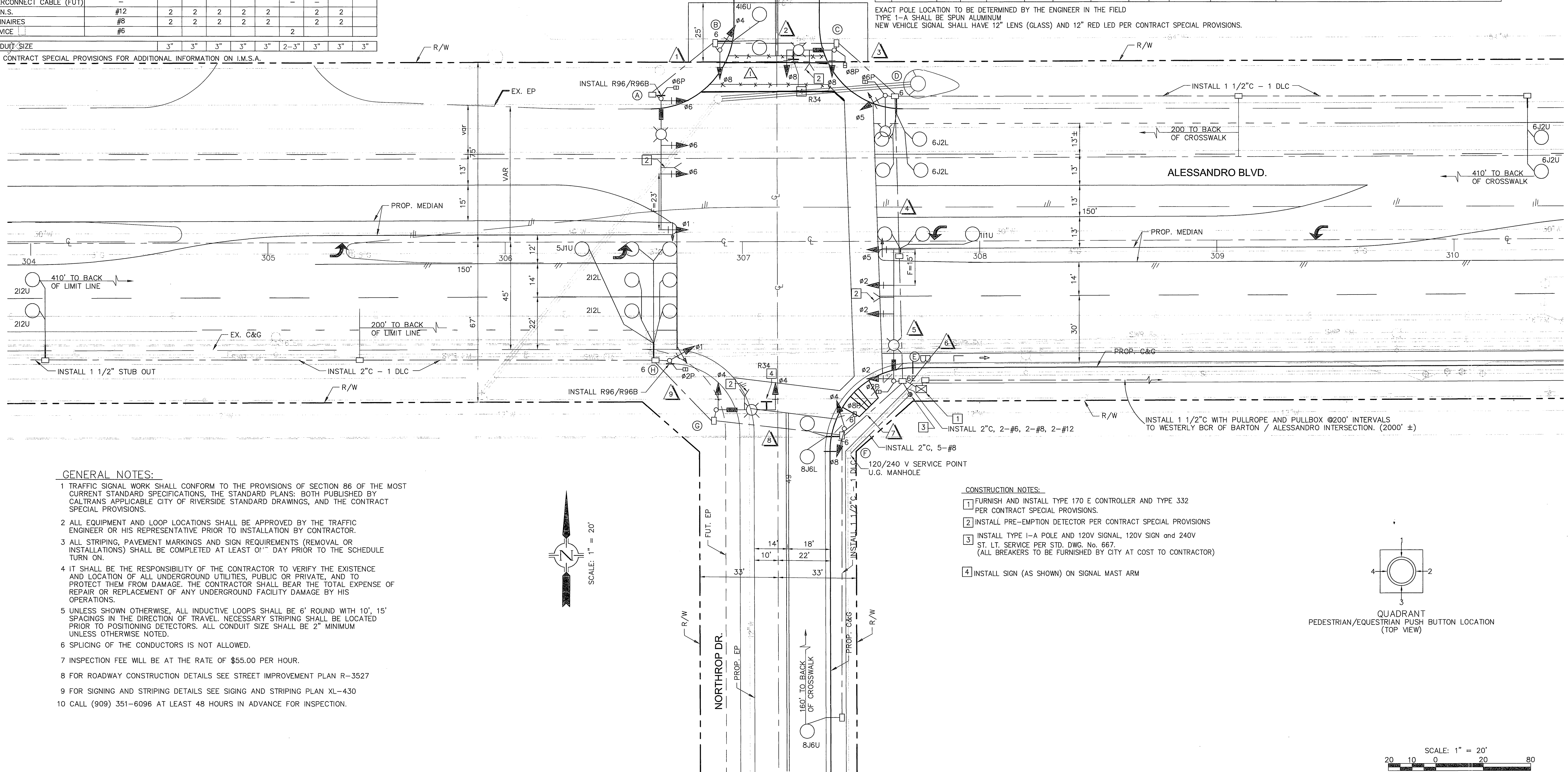


FLASHING OPERATION SHALL BE ALL RED.

POLE SCHEDULE

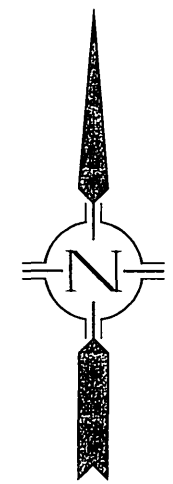
POLE NO.	TYPE	HEIGHT	MAST ARM LENGTH		SIGNAL MOUNTING			PPB #	H.P.S.V. LUMINAIRE	I.I.S.N.S. LEGEND	REMARKS
			SIGNAL	LUMINAIRE	MA	POLE	PED				
A	29A-5-80	35'	55'	15'	3-MAS	SV-1-T	SP-1-T	-	400 W	Northrop DR 7300	
B	1-A	10'	-	-	-	TV-2-T	-	6	3		
C	19-4-80	30'	20'	12'	MAS	SV-1-T	SP-1-T	6	3	Alessandro BI 600	
D	15	30'	-	-	-	SV-1-T	SP-1-T	8	4	250 W	
E	29A-5-80	35'	55'	15'	3-MAS	SV-1-T	SP-1-T	8	4	400 W	Northrop DR 7400
F	1-A	10'	-	-	-	TV-2-T	SP-1-T	2	1		
G	19-4-80	30'	25'	12'	MAS	SV-1-T	SP-1-T	2	1	250 W	Alessandro BI 500
H	1-A	10'	-	-	-	TV-1-T	SP-1-T				

EXACT POLE LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
TYPE 1-A SHALL BE SPUN ALUMINUM
NEW VEHICLE SIGNAL SHALL HAVE 12" LENS (GLASS) AND 12" RED LED PER CONTRACT SPECIAL PROVISIONS.



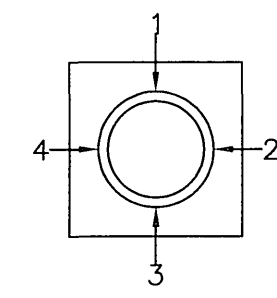
GENERAL NOTES:

- 1 TRAFFIC SIGNAL WORK SHALL CONFORM TO THE PROVISIONS OF SECTION 86 OF THE MOST CURRENT STANDARD SPECIFICATIONS, THE STANDARD PLANS: BOTH PUBLISHED BY CALTRANS APPLICABLE CITY OF RIVERSIDE STANDARD DRAWINGS, AND THE CONTRACT SPECIAL PROVISIONS.
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- 3 ALL STRIPING, PAVEMENT MARKINGS AND SIGN REQUIREMENTS (REMOVAL OR INSTALLATIONS) SHALL BE COMPLETED AT LEAST 01" DAY PRIOR TO THE SCHEDULE TURN ON.
- 4 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES, PUBLIC OR PRIVATE, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND FACILITY DAMAGE BY HIS OPERATIONS.
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- 6 SPLICING OF THE CONDUCTORS IS NOT ALLOWED.
- 7 INSPECTION FEE WILL BE AT THE RATE OF \$55.00 PER HOUR.
- 8 FOR ROADWAY CONSTRUCTION DETAILS SEE STREET IMPROVEMENT PLAN R-3527
- 9 FOR SIGNING AND STRIPING DETAILS SEE SIGING AND STRIPING PLAN XL-430
- 10 CALL (909) 351-6096 AT LEAST 48 HOURS IN ADVANCE FOR INSPECTION.

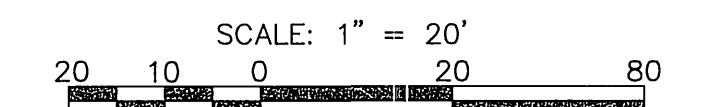


CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL TYPE 170 E CONTROLLER AND TYPE 332 PER CONTRACT SPECIAL PROVISIONS.
- 2 INSTALL PRE-EMPTION DETECTOR PER CONTRACT SPECIAL PROVISIONS
- 3 INSTALL TYPE 1-A POLE AND 120V SIGNAL, 120V SIGNAL and 240V ST. LT. SERVICE PER STD. DWG. No. 667. (ALL BREAKERS TO BE FURNISHED BY CITY AT COST TO CONTRACTOR)
- 4 INSTALL SIGN (AS SHOWN) ON SIGNAL MAST ARM



QUADRANT PEDESTRIAN/EQUESTRIAN PUSH BUTTON LOCATION (TOP VIEW)



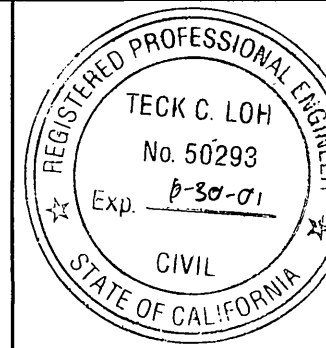
Underground Service Alert



Call: TOLL FREE
1 - 800
227-2600

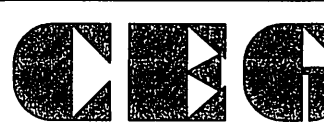
PRIVATE ENGINEERING NOTE

CONTRACTOR 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:

REGISTERED CIVIL ENGINEER No. 50293
EXPIRATION DATE: 6-30-01 DATE: 3-21-00



CANTY ENGINEERING GROUP, INC.
CIVIL ENGINEERING - PLANNING - SURVEYING
2020 IOWA AVENUE, SUITE A-102, P.O. BOX 52050, RIVERSIDE, CA 92517
TEL (909) 683 - 5234 FAX (909) 683 - 5301

SCALE: 1" = 20'
BENCH MARK:
DATE: MARCH, 2000

REVISIONS
DESIGNED BY: K.T.O. DRAWN BY: K.T.O. CHECKED BY: T.L.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: [Signature]
PRINCIPAL ENGR.
PARK DEPARTMENT
TRAFFIC DIVISION
P.W. ENGINEER, MGR.
STREET SERVICES

APPROVED BY: [Signature]
DIRECTOR OF PUBLIC WORKS
DATE: 1-10-00

TRAFFIC SIGNAL PLAN
NORTHROP DR.
AND
ALESSANDRO BLVD.

FOR: REGIONAL PROPERTIES

PROJECT NO.

X-503

SHEET 1 OF 1

FILE NO.: