

**TRAFFIC SIGNAL GENERAL NOTES:**

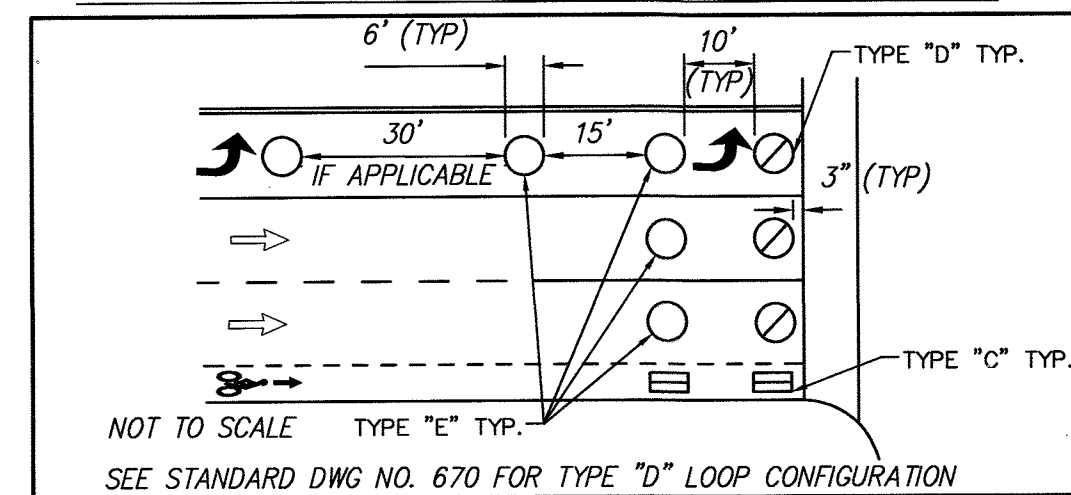
- ALL ITEMS FURNISHED AND ALL WORK TO BE DONE SHALL CONFORM TO THE REQUIREMENTS OF: THE STATE OF CALIFORNIA OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS, DATED 2006; THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ADOPTED 2014; AND THE SPECIAL PROVISIONS.
- UTILITIES SHOWN ON THE PLAN ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL KNOWN SUBSTRUCTURES PRIORS TO DOING WORK THAT MAY DAMAGE OR INTERFERE WITH SUCH FACILITIES ("UNDERGROUND SERVICE ALERT" (800) 227-2600).
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO NOTIFY ALL AFFECTED AGENCIES AND THE RIVERSIDE UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.
- UNLESS SHOWN OTHERWISE, INDUCTIVE LOOPS SHALL BE MODIFIED TYPE "D" & TYPE "E" WITH 10', 15' AND 30' SPACING IN THE DIRECTION OF TRAVEL. NECESSARY STRIPPING SHALL BE LOCATED PRIOR TO POSITIONING LOOPS. LOOPS SHALL BE SEALED WITH HOT MELT SEALANT. SEE DETAIL.
- CONDUCTOR SCHEDULE IS FURNISHED AS AN INSTALLATION GUIDELINE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CORRECT CONDUCTORS REQUIRED FOR THE INTENDED OPERATION.
- CONDUIT BETWEEN ADJOINING PULL BOXES SHALL BE 2" UNLESS SHOWN OTHERWISE. ALL CONDUIT AND FITTINGS SHALL BE RIGID METAL, UNLESS SHOWN OTHERWISE (BURIED IN MINIMUM OF 30" OF COVER IN THE STREET AND PARKWAY).
- TRAFFIC SIGNAL INTERCONNECT (SIC) SHALL BE 2" UNLESS SHOWN OTHERWISE, BURIED IN A MINIMUM OF 30" OF COVER IN THE STREET AND PARKWAY. NO. 6 PULL BOXES WITH LIDS LABELED "COMMUNICATIONS", SHALL BE SPACED AT 400' AND THE MAXIMUM SIC BENDING RADIUS SHALL NOT EXCEED 45 DEGREE. SIC CONDUIT SHALL ONLY INCLUDE SIGNAL INTERCONNECT CONDUCTORS.
- UNDERGROUND SIGNAL CONDUCTORS SHALL NOT BE SPLICED.
- PULL BOXES SHALL BE No. 6 WITH FIBERLITE LIDS LABELED "TRAFFIC SIGNAL" UNLESS OTHERWISE NOTED ON THE PLAN.
- PULL BOXES SHALL NOT BE LOCATED IN OR WITHIN 1' OF ANY CURB ACCESS RAMP OR DRIVEWAY.
- THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER THE PRECISE FIELD LOCATIONS OF ALL TRAFFIC SIGNAL EQUIPMENT PRIOR TO THE INSTALLATION.
- ALL LANDSCAPING WHICH IS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE CITY AND THE PROPERTY OWNER.
- NEW MAST ARM MOUNTED SIGN SHALL BE FABRICATED WITH 3M DIAMOND GRADE DG3 REFLECTIVE SHEETING (ASTM TYPE XI) OR APPROVED EQUAL. SIGNS SHALL BE STANDARD SIZE AND HAVE A MINIMUM SIDE DIMENSION OF 30".
- VEHICLE HEADS SHALL BE 12" LED TYPE. THE HOUSING, BACKPLATES AND VISORS SHALL BE METAL.
- INTERNALLY ILLUMINATED STREET NAME SIGNS (IISNS) SHALL BE TYPE A STREET NAME LEGENDS SHALL BE UPPER/LOWER CASE AND SHALL INCLUDE BLOCK NUMBERS AND ROAD NAME SUFFIXES.
- SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE CITY OF RIVERSIDE TRAFFIC SIGNAL MAINTENANCE YARD.
- DAMAGED SIDEWALK CONCRETE SHALL BE REPLACED PER CITY OF RIVERSIDE STANDARD.
- THE CONTRACTOR SHALL REMOVE ALL UNUSED PULL BOXES AND RE-PAVE SURROUNDING AREA TO MATCH EXISTING OR PROPOSED GRADE. ALL UNUSED CONDUIT SHALL BE ABANDONED AND CAPPED ONCE UNUSED CONDUCTORS ARE REMOVED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL ANY ADDITIONAL LOAD SWITCHES AND/OR DETECTOR CARDS, IF NECESSARY, FOR THE PROPOSED OPERATION.
- ALL CONTRACTORS WORKING ON OR AROUND THE CITY OF RIVERSIDE'S UNDERGROUND ELECTRICAL FACILITIES MUST HAVE THE PROPERLY QUALIFIED PERSONNEL AND EQUIPMENT TO PERFORM THE SPECIFIED WORK. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE TO ESTABLISH AND MAINTAIN A SAFE WORKING ENVIRONMENT INCLUDING, BUT NOT LIMITED TO WORK AROUND ENERGIZED HIGH VOLTAGE FACILITIES, GAS TESTING OF CONFINED SPACES, TRAFFIC AND PROTECTION.

**CONDUCTOR TABLE**

CONTROL FUNCTION	CONDUCTORS	RUN No.							
		1	2	3	4	5	6	7	8
VEHICLE & PEDESTRIAN HEADS, PED PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA	1	2	3	4	5	1	2	8
	3 WIRE IMSA	1	2	3	4	5	1	2	8
DETECTOR CABLE	#16/2								
PHASE 1						2			2
PHASE 2		5	5	5	5	5			5
PHASE 3									
PHASE 4							4		4
PHASE 5		2	2	2	2	2			2
PHASE 6						4			4
PHASE 7									
PHASE 8				4	4	4			4
I.I.S.N.S	#12		2	2	2	2	2	2	
LUMINAIRES	#8			2	2	2	2	2	
SIGNAL SERVICE	#6							2	2
VEHICLE PRE-EMPTION	#20		1	1	2	2	1	1	4
INTERCONNECT	6 PR #19			1	1	1			1
CONDUCTOR SIZE		2"	3"	3"	3"	3.5"	3"(N)	3"(N)	2-3"

ALL CONDUCTORS ARE NEW UNLESS SHOWN AS (E)=EXISTING.  
ALL CONDUITS ARE EXISTING UNLESS SHOWN AS (N)=NEW.

**TYPICAL LOOP DETECTOR LAYOUT**

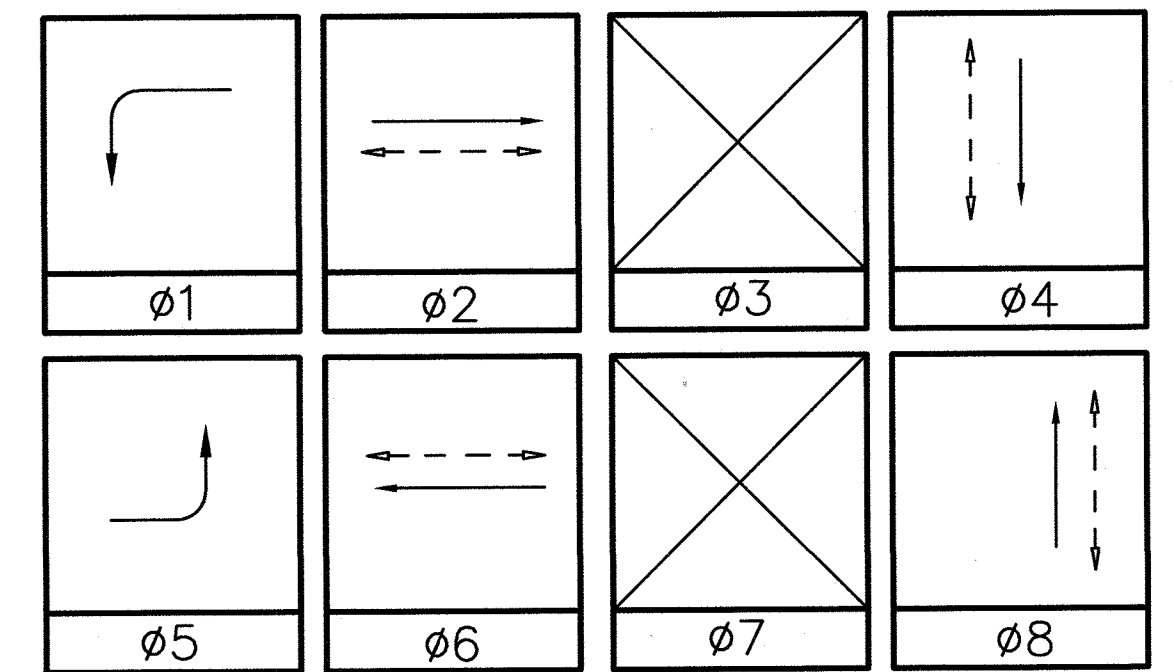


**EQUIPMENT SCHEDULE**

No.	SIGNAL STANDARD TYPE	HEIGHT	M.A.	L.A.	LED	I.I.S.N.S. LEGEND	SIGNAL MOUNTING			APS* PHASE
							M.A.	POLE	PED.	
A	26-4-100(N)	30'(N)	45'(N)	12'(R)	250W(R)	First(R)	SV-2-1D(R)	SP-2-T(R)		4(N)
B	PPB(R)	-	-	-	-	-	-	-	-	6(N)
C	17-2-129	30'	20'	12'	200W	Market	SV-1-T	SP-1-T		6(N)
D	1A	10'	-	-	-	-	TV-1-T	SP-1-T		8(N)
E	19-4-100(N)	30'(N)	35'(N)	12'(R)	250W(R)	First	SV-1-T(R)	SP-1-T(R)		8(N)
F	15TS	30'	-	12'	250W	-	SV-1-T	SP-1-T		2(N)
G	16-3-100	17'	20'	-	-	Market	2-MAS	SV-1-T	SP-1-T	-
H	PPB(N)	-	-	-	-	-	-	-	-	2(N)
I	1A	10'	-	-	-	-	TV-1-T	SP-1-T		4(N)

\*POLARA 2-WIRE ACCESSIBLE PEDESTRIAN SIGNALS (APS) OR CITY APPROVED EQUAL SIGNAL EQUIPMENT IS EXISTING UNLESS SHOWN AS (N)=NEW OR (R)=RELOCATED.

**PHASE DIAGRAM**

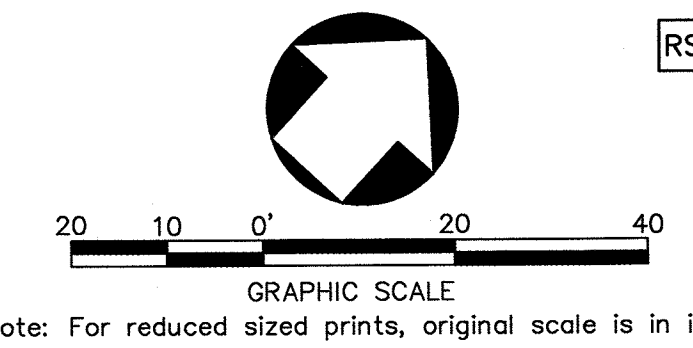
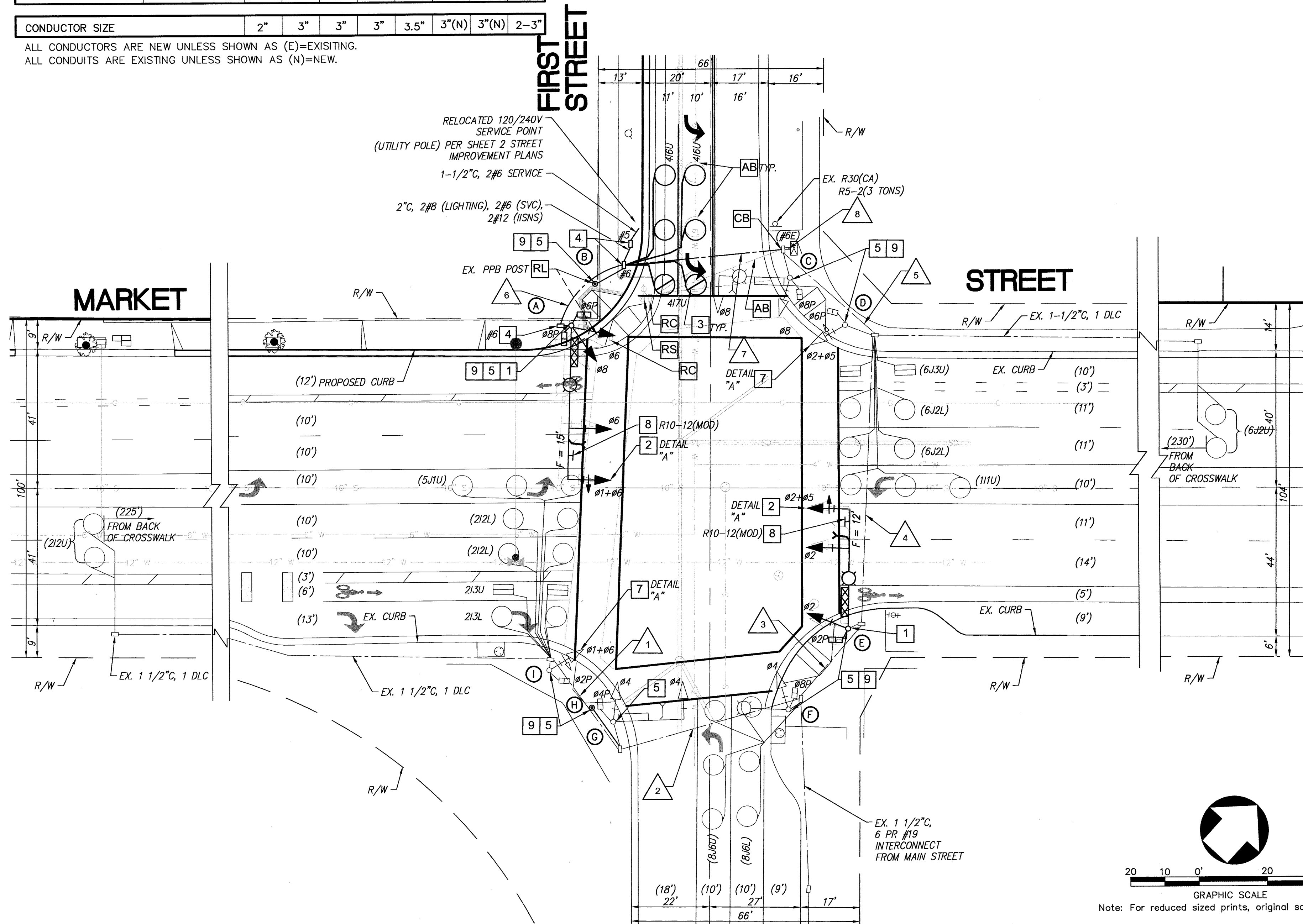


**CONSTRUCTION NOTES:**

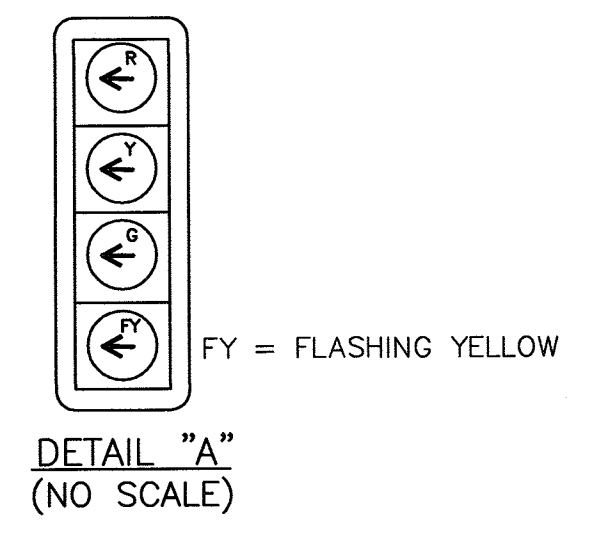
- REMOVE EXISTING FOUNDATION COMPLETELY AND CONSTRUCT NEW ONE. RELOCATE APPURTENANT EQUIPMENT AS SHOWN IN EQUIPMENT SCHEDULE. RELOCATE EVP COMPLETE TO AN OPERABLE OPERATION.
- RELOCATE 4-SECTION MAST ARM INDICATION PER DETAIL "A".
- INSTALL DETECTOR LOOP(S) AS SHOWN PER CALTRANS STD. PLAN ES-5B, AND DETAIL HEREON.
- INSTALL NEW PULL BOX AS SHOWN.
- CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING INTERNAL PEDESTRIAN AUDIBLE SYSTEMS TO THE TRAFFIC SIGNAL DIVISION.
- CONSTRUCT 2" C WITH 2#6 WIRES TO SERVICE ENCLOSURE.
- PROTECT IN PLACE EXISTING 4-SECTION TOP MOUNT INDICATION PER DETAIL "A".
- RELOCATE MAST ARM SIGN AS NOTED.
- INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) SIGNAL PUSH BUTTONS AS SHOWN.

**LEGEND:**

- AB ABANDON. IF APPLIED TO CONDUIT REMOVE CONDUCTORS.
- CB CONNECT NEW CONDUIT TO EXISTING PULL BOX.
- RC EQUIPMENT TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR.
- RL REMOVE AND RELOCATE EQUIPMENT AS SHOWN.
- RS REMOVE AND SALVAGE EQUIPMENT TO THE CITY.



**DIG ALERT**  
DIAL BEFORE YOU DIG  
TWO WORKING DAYS BEFORE YOU DIG  
TOLL FREE 1-800-227-2600  
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT  
BENCHMARK: F2-03 1988 ELEV. = 725.201  
CITY OF RIVERSIDE  
FOUND P.K. NAIL AND CITY ENGINEER TAG "F2-03" IN THE MOST SOUTHERLY CURB RETURN AT PIERCE STREET AND GOLDEN AVENUE.



	CITY BUSINESS CERTIFICATE NO. 0021337, EXP. 10/31/2018		<b>PSOMAS</b> 1500 IOWA AVENUE, SUITE 210 RIVERSIDE, CA 92507 (951) 757-9421 WWW.PSOMAS.COM		<b>CITY OF RIVERSIDE, CALIFORNIA</b> <b>PUBLIC WORKS DEPARTMENT</b> APPROVED BY: [Signature] BY DATE: [Date] ENGINEERING MANAGER TRAFFIC ENGINEERING DIVISION CONSTRUCTION MANAGEMENT		<b>CITY OF RIVERSIDE</b> <b>TRAFFIC SIGNAL PLAN</b> MARKET STREET AT 1ST STREET <b>X-148C</b> SHEET 1 of 1 HORIZ. SCALE: AS NOTED VERT. SCALE: AS NOTED J.N. 421010200	
	PREPARED BY: ARIEF NAFTALI R.C.E. NO. 64286 DATE: 6/6/18	MARK: [ ] REVISIONS: [ ] APPR. DATE: [ ] DESIGNED BY: [ ] DRAWN BY: [ ] CHECKED BY: [ ]	DATE: 7/24/18		HORIZ. SCALE: AS NOTED VERT. SCALE: AS NOTED		J.N. 421010200	