

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	9
VEHICLE & PEDESTRIAN HEADS, PED PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA	1	2	3	4	1	2	3	8	8
	3 WIRE IMSA	1	2	3	4	1	2	3	8	8
DETECTOR CABLE	#16/2									
PHASE 1									2	2
PHASE 2		4	4	4	4				4	4
PHASE 3										
PHASE 4				2	2				2	2
PHASE 5		2	2	2	2				2	2
PHASE 6									4	4
PHASE 7										
PHASE 8						3	3	3	3	3
I.I.S.N.S	#10		2	2	2	2	2	2	2	2
LUMINAIRES	#8		2	2	2	2	2	2	2	2
SIGNAL SERVICE	#6									2
VEHICLE PRE-EMPTION	#20		1	1	2	1	1	2	4	4
INTERCONNECT	6 PR #19					1	1	1	2	2
	12-STRAND F.O.C					1	1	1	2	2
CONDUCTOR SIZE		2"	3.5"	4"	4"	3"	3"	4"	2-4"	2-4"

ALL CONDUITS AND CONDUCTORS SHALL BE NEW.

SIGNS LEGEND:



R3-4

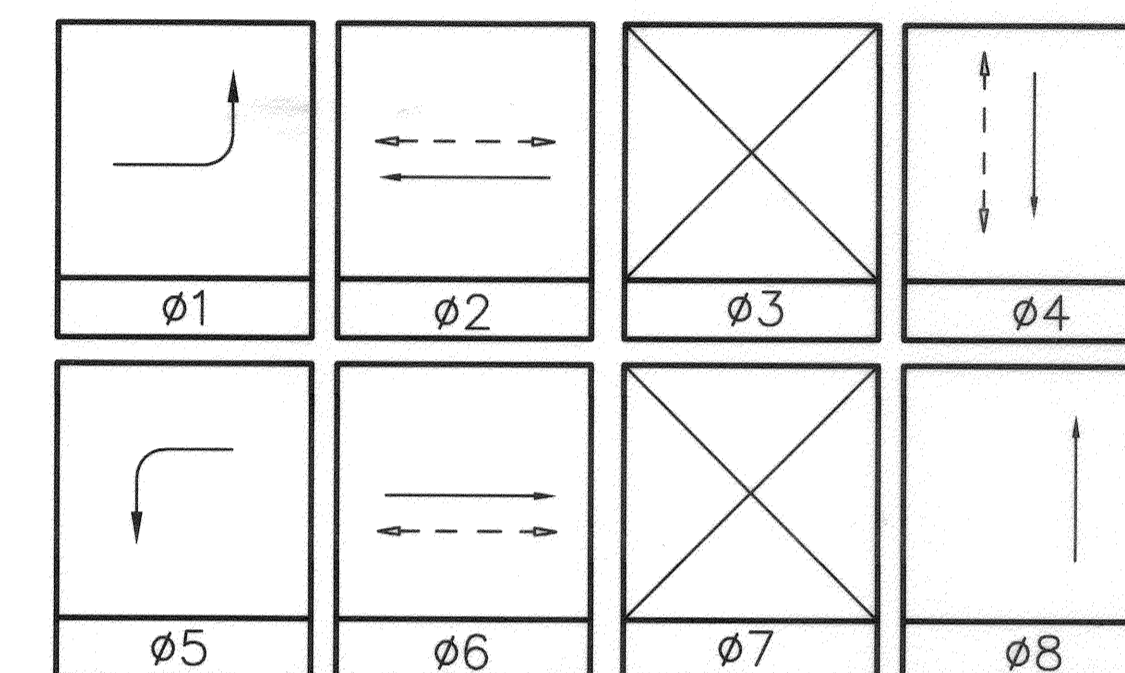
EQUIPMENT SCHEDULE

No.	SIGNAL STANDARD			LUMINAIRE	I.I.S.N.S.	SIGNAL MOUNTING						
	TYPE	HEIGHT	M.A.			L.A.	LED	LEGEND	M.A.	POLE	PED.	AUDIBLE
A	26-4-100	30'	40'	15'	250W	Nebraska		2-MAS	SV-1-T	SP-1-T	((C))	4
B	1A	10'	-	-	-	-	-	-	TV-1-T	SP-1-T	((P))	2
C	17-3-100	30'	20'	12'	250W	La Sierra		MAS	SV-1-T	-	-	2
D	1A	10'	-	-	-	-	-	-	TV-1-T	SP-1-T	((C))	-
E	26-4-100	30'	40'	15'	250W	Shopping		2-MAS	SV-1-T	SP-1-T	((C))	-
F	1A	10'	-	-	-	-	-	-	TV-1-T	-	-	6
G	17-3-100	30'	20'	12'	250W	La Sierra		MAS	SV-1-T	SP-1-T	((P))	6
H	1A	10'	-	-	-	-	-	-	TV-1-T	SP-1-T	((C))	4

PEDESTRIAN AUDIBLES: ((C))=CUCKOO (NORTH/SOUTH), ((P))=PEEP PEEP (EAST/WEST)

- ALL POLES AND EQUIPMENT SHALL BE NEW
- ALL VEHICULAR HEADS SHALL HAVE 12" LENSES
- PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.
- CONTRACTOR SHALL POT HOLE MAST ARM POLE FOUNDATIONS PRIOR TO ORDERING POLES AND MAST ARMS.
- ALL PEDESTRIAN HEADS SHALL BE LED COUNTDOWN HEADS.
- ALL LEFT TURN VEHICLE HEADS SHALL HAVE ALL ARROWS.
- ALL PEDESTRIAN PUSH BUTTONS SHALL BE 2 WIRE POLARA ACCESSIBLE PEDESTRIAN SIGNALS (APS)

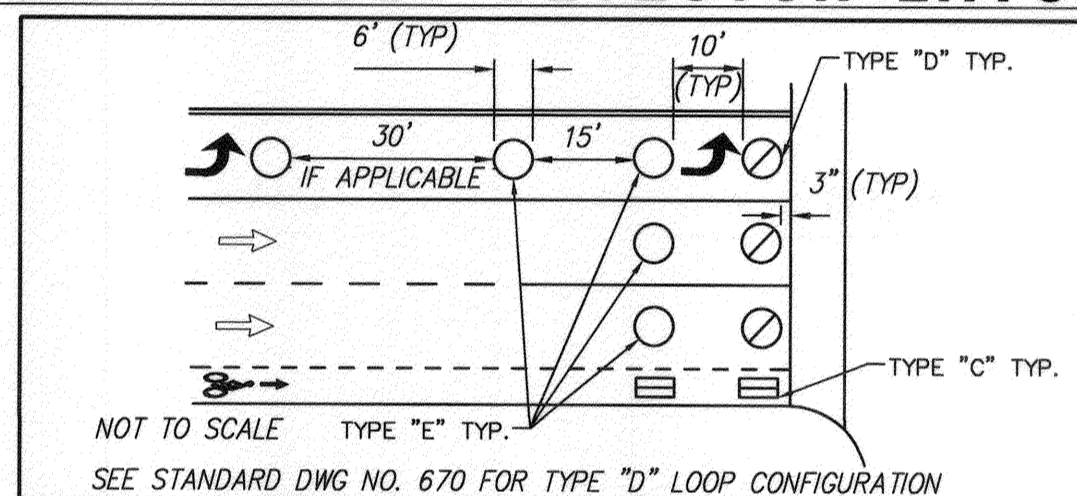
PHASE DIAGRAM



CONSTRUCTION NOTES:

- CONTRACTOR SHALL CONSTRUCT (TYPE 332 CABINET) FOUNDATION. CONTRACTOR SHALL FURNISH AND INSTALL MODEL 2070 CONTROLLER ASSEMBLY IN MODEL 332 ANODIZED ALUMINUM CABINET, COMPLETE WITH DETECTION SHOWN AND AUXILIARY EQUIPMENT PER CITY OF RIVERSIDE SPECIFICATIONS.
- FURNISH AND INSTALL ELECTRICAL SERVICE PER CITY OF RIVERSIDE STANDARD DRAWING No. 667 CONTRACTOR SHALL COORDINATE WITH THE CITY OF RIVERSIDE ELECTRICAL UTILITY DEPARTMENT AT (951) 826-5452 FOR ELECTRICAL SERVICE A MINIMUM THREE WEEKS PRIOR TRAFFIC SIGNAL TURN-ON.
- FURNISH AND INSTALL ONE (1) GTT MODEL 711 (OR CITY APPROVED EQUAL) EMERGENCY VEHICLE PRE-EMPTION DETECTOR ASSEMBLY (INCLUDING MOUNTING HARDWARE AND CABLE) FOR EACH DIRECTION AS SHOWN ON PLAN. EVP DETECTOR SHALL BE MOUNTED PER DETAIL ON PLAN.
- FURNISH AND INSTALL NEW P48 VAULT. CONDUITS SHALL BE SIDE ENTRY. 6PR #19 AND 12-STRAND SINGLE MODE FIBER OPTIC CABLE SIC ENTERING VAULT SHALL HAVE A MINIMUM OF 30 FEET OF SLACK AND BE COILED NEATLY ON THE SIDE OF THE VAULT. REPLACE SIDEWALK JOINT TO JOINT.
- FURNISH AND INSTALL SIGN(S) AS SHOWN
- CONTRACTOR SHALL PROVIDE AND INSTALL UNINTERRUPTED POWER SUPPLY (UPS) UNIT PER THE SPECIAL PROVISIONS. THE UPS UNIT AND BATTERIES SHALL BE INSTALLED IN CABINET, EXTERNALLY MOUNTED TO THE CONTROLLER CABINET.
- CONTRACTOR SHALL PROVIDE F.O.C SPLICE RACK, ETHERWAN 8 PORTS FIBER-ENABLED SWITCH AT THE CONTROLLER CABINETS OF NORWOOD AVE, NEBRASKA AVE AND PIERCE ST.

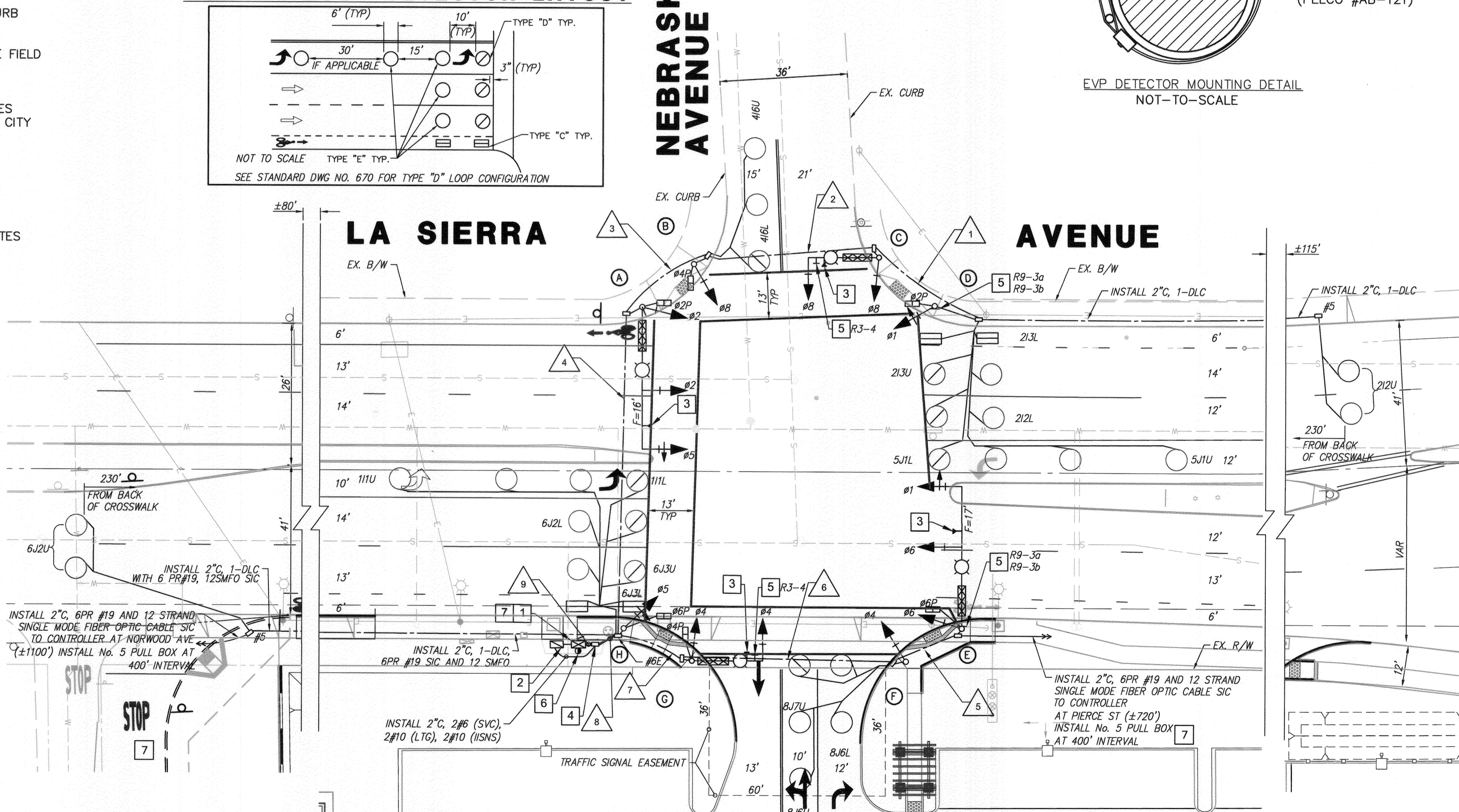
TYPICAL LOOP DETECTOR LAYOUT



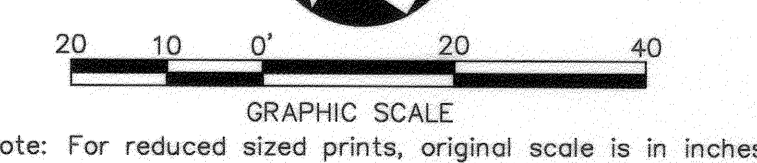
NEBRASKA AVENUE

LA SIERRA AVENUE

AVENUE



EVP DETECTOR MOUNTING DETAIL NOT-TO-SCALE



GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

DIGALERT
DIAL 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.

PROFESSIONAL SEAL
No. 64286
06/30/2017
CIVIL

CITY BUSINESS CERTIFICATE NO. 0021337, EXP. 10/31/2015
PSOMAS
1500 IOWA AVENUE, SUITE 210
RIVERSIDE, CA 92507
(951) 787-8421 WWW.PSOMAS.COM

PREPARED BY: [Signature]
R.C.E. NO. 64286
DATE: 9/29/2015

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature]
BY DATE: [Date]
ENGINEERING MANAGER: [Signature]
TRAFFIC ENGINEERING: [Signature]
CONSTRUCTION MANAGEMENT: [Signature]
PUBLIC UTILITIES: [Signature]

CITY OF RIVERSIDE TRAFFIC SIGNAL PLAN LA SIERRA AVENUE AT NEBRASKA AVENUE

X-547
SHEET 1 OF 1
J.N. 4MCK010200

HORIZ. SCALE: AS NOTED VERT. SCALE: AS NOTED