

CONDUCTOR AND CONDUIT TABLE									
CONTROL	CIRCUIT	RUNS							
		1	2	3	4	5	6	7	8
VEHICLE HEADS, PPB, SPARES & COMMONS	12 CONDUCTOR CABLE	(N)	2(N)	3(N)	H300	2+300	3+500	2(N)	(N)
	3 CONDUCTOR CABLE	(N)	2(N)	3(N)	2+200	3+200	3+500	2(N)	(N)
#12	I.I.S.N.S.	2(N)	2(N)	2(N)	2	2	-	2	-
#8	LIGHTING	2(N)	2(N)	2(N)	2	2	-	2	-
#6	SERVICE	-	-	-	-	-	2	-	-
TYPE "C" DLC	1 LOOP LEAD-IN	-	-	-	-	-	2(N)	2(N)	2(N)
	2	-	-	-	H300	H300	H300	-	-
	3	-	2(N)	2(N)	2(N)	2(N)	2(N)	-	-
	4	-	-	-	-	-	H200	-	-
	5	-	-	-	2(N)	2(N)	2(N)	-	-
	6	-	-	-	-	-	5(N)	5(N)	5(N)
	7	-	-	-	-	-	2(N)	-	-
	8	-	-	-	-	-	5(N)	5(N)	5(N)
TOTAL		-	7(N)	7(N)	H200	H200	2+200	7(N)	7(N)
EMERGENCY PREEMPTION CABLE		(N)	(N)	(N)	(N)	H(N)	2+00	1	-
WIMAX RADIO CABLE		-	-	-	-	-	(N)	(N)	-
INTERCONNECT CABLE (6PR#19)		-	-	-	-	-	(N)	(N)	-
CCTV CABLE		-	-	(N)	(N)	(N)	(N)	(N)	-
CONDUIT SIZE		2"(N)	3"(N)	3"	4"	4"	2-4"	3"	3"

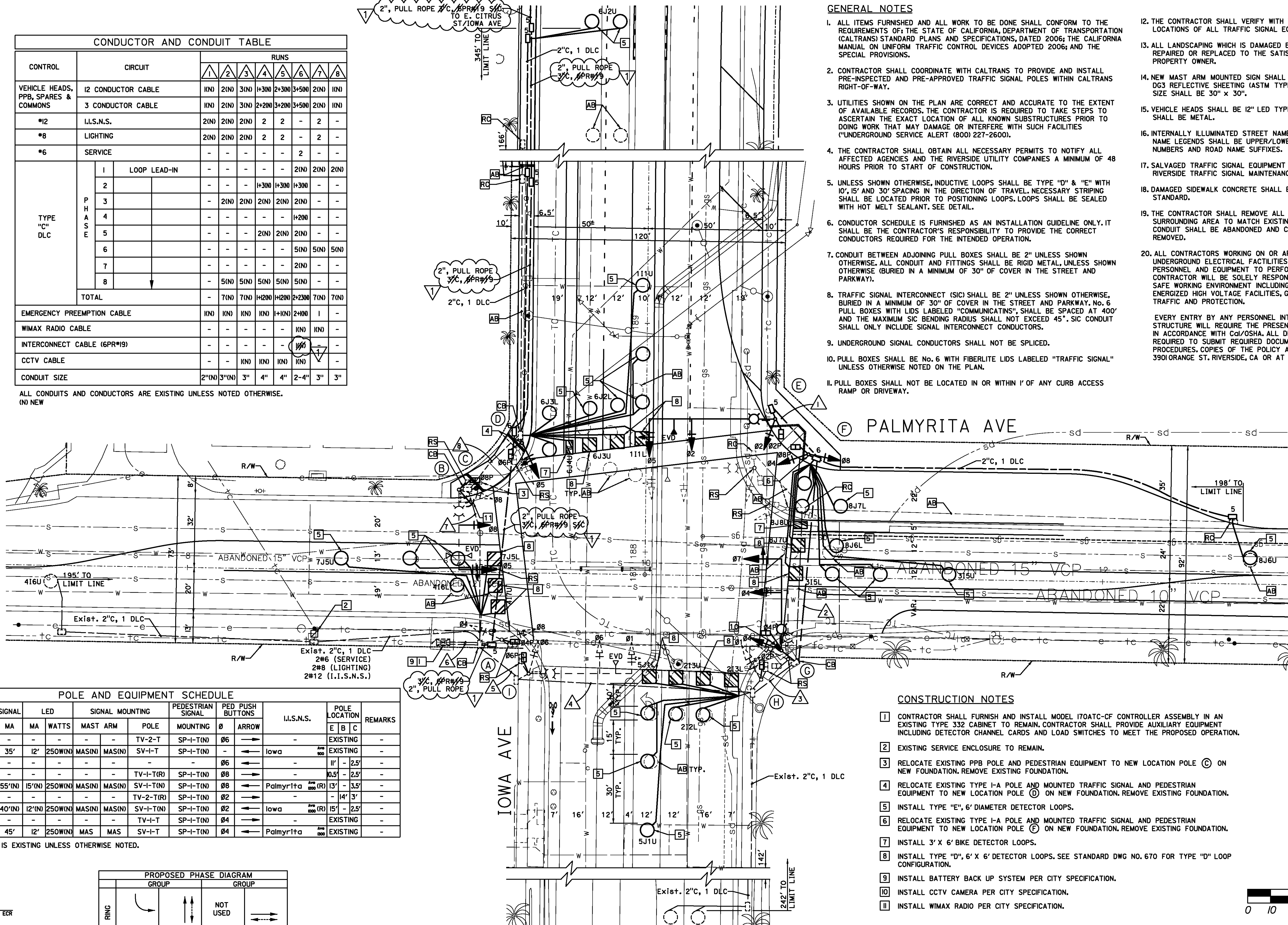
ALL CONDUITS AND CONDUCTORS ARE EXISTING UNLESS NOTED OTHERWISE.
(N) NEW

GENERAL NOTES

- ALL ITEMS FURNISHED AND ALL WORK TO BE DONE SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS, DATED 2006; THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ADOPTED 2006; AND THE SPECIAL PROVISIONS.
- CONTRACTOR SHALL COORDINATE WITH CALTRANS TO PROVIDE AND INSTALL PRE-INSPECTED AND PRE-APPROVED TRAFFIC SIGNAL POLES WITHIN CALTRANS RIGHT-OF-WAY.
- 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 PRIOR 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 TYPE "D" & "E" WITH 10', 15' AND 30" SPACING IN THE DIRECTION OF TRAVEL. NECESSARY STRIPING 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 A 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 "COMMUNICATING" SHALL BE SPACED AT 400' AND THE MAXIMUM SIC BENDING RADIUS SHALL NOT EXCEED 45". 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. MINIMUM SIGN SIZE SHALL BE 30" X 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.
- 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.

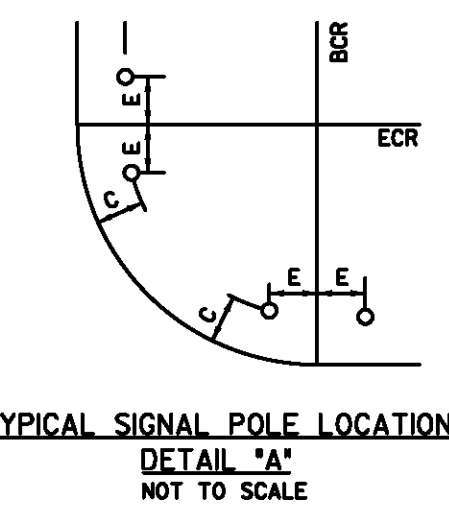
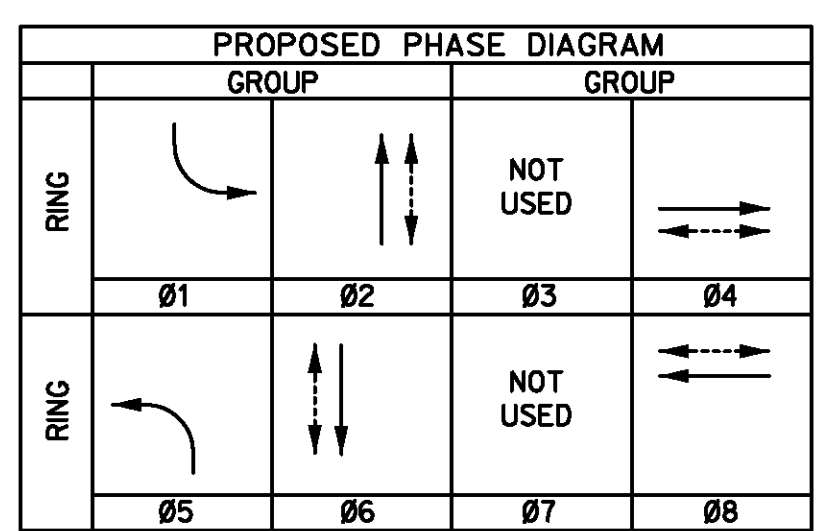
EVERY ENTRY BY ANY PERSONNEL INTO A PUBLIC UTILITIES HIGH VOLTAGE STRUCTURE WILL REQUIRE THE PRESENCE OF A QUALIFIED ELECTRICAL WORKER IN ACCORDANCE WITH CAL/OSHA. ALL DEVELOPERS AND CONTRACTORS ARE REQUIRED TO SUBMIT REQUIRED DOCUMENTATION AND FOLLOW REQUIRED PROCEDURES. COPIES OF THE POLICY AND DOCUMENTS MAY BE OBTAINED AT 3901 ORANGE ST., RIVERSIDE, CA OR AT WWW.RIVERSIDEPUBLICUTILITIES.COM.



AS-BUILT
NO AS-BUILT CHANGES

POLE AND EQUIPMENT SCHEDULE													
POLE NO.	POLE DATA		SIGNAL	LED	SIGNAL MOUNTING		PEDESTRIAN SIGNAL MOUNTING	PED PUSH BUTTONS	I.I.S.N.S.	POLE LOCATION	REMARKS		
	TYPE	HEIGHT			MA	MA						WATTS	MAST ARM
A	I-A	10'	-	-	-	-	TV-2-T	SP-I-T(N)	Ø6	←	-	EXISTING	-
B	24-4-I29	30'	35'	12'	250W(N)	MAS(N)	MAS(N)	SV-I-T	SP-I-T(N)	←	Iowa	EXISTING	-
C	PPB(R)	3'-10"	-	-	-	-	-	-	Ø6	←	-	11' - 2.5'	-
D	I-A(R)	10'	-	-	-	-	TV-I-T(R)	SP-I-T(N)	Ø8	←	-	0.5' - 2.5'	-
E	29-5-100(N)	30'	55'(N)	15'(N)	250W(N)	MAS(N)	MAS(N)	SV-I-T(N)	SP-I-T(N)	Ø8	Palmyrita	13' - 3.5'	-
F	I-A(R)	10'	-	-	-	-	TV-2-T(R)	SP-I-T(N)	Ø2	←	-	14' 3"	-
G	26-4-100(N)	30'	40'(N)	12'(N)	250W(N)	MAS(N)	MAS(N)	SV-I-T(N)	SP-I-T(N)	Ø2	Iowa	15' - 2.5'	-
H	I-A	10'	-	-	-	-	TV-I-T	SP-I-T(N)	Ø4	←	-	EXISTING	-
I	26-4-80	30'	45'	12'	250W(N)	MAS	MAS	SV-I-T	SP-I-T(N)	Ø4	Palmyrita	EXISTING	-

ALL EQUIPMENT SHOWN IS EXISTING UNLESS OTHERWISE NOTED.
(R) RELOCATE
(N) NEW



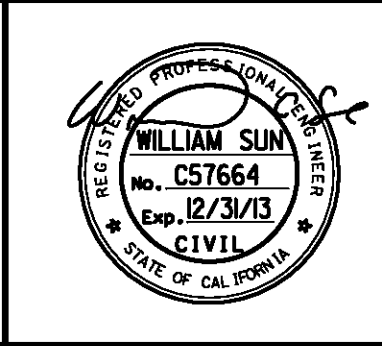
CONSTRUCTION NOTES

- CONTRACTOR SHALL FURNISH AND INSTALL MODEL 170ATC-CF CONTROLLER ASSEMBLY IN AN EXISTING TYPE 332 CABINET TO REMAIN. CONTRACTOR SHALL PROVIDE AUXILIARY EQUIPMENT INCLUDING DETECTOR CHANNEL CARDS AND LOAD SWITCHES TO MEET THE PROPOSED OPERATION.
- EXISTING SERVICE ENCLOSURE TO REMAIN.
- RELOCATE EXISTING PPB POLE AND PEDESTRIAN EQUIPMENT TO NEW LOCATION POLE (C) ON NEW FOUNDATION. REMOVE EXISTING FOUNDATION.
- RELOCATE EXISTING TYPE I-A POLE AND MOUNTED TRAFFIC SIGNAL AND PEDESTRIAN EQUIPMENT TO NEW LOCATION POLE (D) ON NEW FOUNDATION. REMOVE EXISTING FOUNDATION.
- INSTALL TYPE "E", 6" DIAMETER DETECTOR LOOPS.
- RELOCATE EXISTING TYPE I-A POLE AND MOUNTED TRAFFIC SIGNAL AND PEDESTRIAN EQUIPMENT TO NEW LOCATION POLE (F) ON NEW FOUNDATION. REMOVE EXISTING FOUNDATION.
- INSTALL 3' X 6' BIKE DETECTOR LOOPS.
- INSTALL TYPE "D", 6" X 6' DETECTOR LOOPS. SEE STANDARD DWG NO. 670 FOR TYPE "D" LOOP CONFIGURATION.
- INSTALL BATTERY BACK UP SYSTEM PER CITY SPECIFICATION.
- INSTALL CCTV CAMERA PER CITY SPECIFICATION.
- INSTALL WIMAX RADIO PER CITY SPECIFICATION.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

PLANS PREPARED BY:
LIN Consulting, Inc.
Traffic, Civil, and Electrical Consulting Engineers
21660 E. COPLEY DRIVE, SUITE 270
DIAZANO HAVEN, CA 91768
PHONE: (909) 396-8850, FAX: (909) 396-8150



MARK	REVISIONS	APPR	DATE
1	Revised SIC conduit run, conductor and conduit table, and DWG NO.	WCS	5/16/12

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
APPROVED BY: _____ BY DATE: _____
TRAFFIC ENGINEER
CONST MNGMT
PUBLIC WORKS DIRECTOR
DATE: _____

IOWA AVENUE
GRADE SEPARATION
TRAFFIC SIGNAL
IOWA AVE AT
PALMYRITA AVE
SCALE: AS SHOWN

DWG NO. **382B**
X-382A
SHEET 1 OF 1