

**EQUIPMENT SCHEDULE**

NO.	SIGNAL TYPE	STANDARD HGT.	M.A.	LUMINAIRE M.A.	L.E.D.	I.T.S.N.S. LEGEND	SIGNAL MOUNTINGS			P.P.B.	
							VEH.	PED.	AUDIBLE		
A	29-5-100	30'	50'	12'	250W	Jerry Louder	Dr #####	2-MAS			
B	16-3-100	18'-6"	15'			Streeter	Ave 6400	MAS			
C	26-4-100	30'	40'	12'	250W	Jerry Louder	Dr #####	2-MAS			
D	15TS	30'		12'	250W			SV-1-T	SP-1-T	[(P)]	Ø8
E	1A	7'						SV-1-T	SP-1-T	[(C)]	Ø8
								SV-1-T	SP-1-T	[(C)]	Ø2
								TP-1-T	[(P)]		Ø2

##### - THE CONTRACTOR SHALL COORDINATE WITH THE CITY FOR BLOCK NUMBER INFORMATION.

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

- 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.
- ALL PEDESTRIAN HEADS SHALL BE LED COUNTDOWN HEADS.
- ALL LEFT TURN VEHICLE HEADS SHALL HAVE ALL ARROWS.

**CONDUCTOR TABLE**

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS			
		1	2	3	4
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA	2	6	3	2
	3 WIRE IMSA	1(F)	6	3	2
CAMERA CABLE VIDEO DETECTION CAMERA POWER CABLE	ITERIS SPECIFICATION	1	3	1	-
	POWER CABLE	1	3	1	-
VEHICLE PREEMPTION	#20/4	1	3	2	1
I.T.S.N.S.	#12	2	-	2	-
LUMINAIRES	#8	2	-	2	2
SIGNAL SERVICE	#6	-	2	-	-
RADIO (SIC)	CAT-5E	1	1	-	-

CONDUIT SIZE	3"	2-4"	3"	3"

- SIGNAL SYSTEM SHALL HAVE ALL NEW CABLES, CONDUCTORS AND CONDUIT.
  - SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON I.M.S.A. CABLE.
- (F) FUTURE

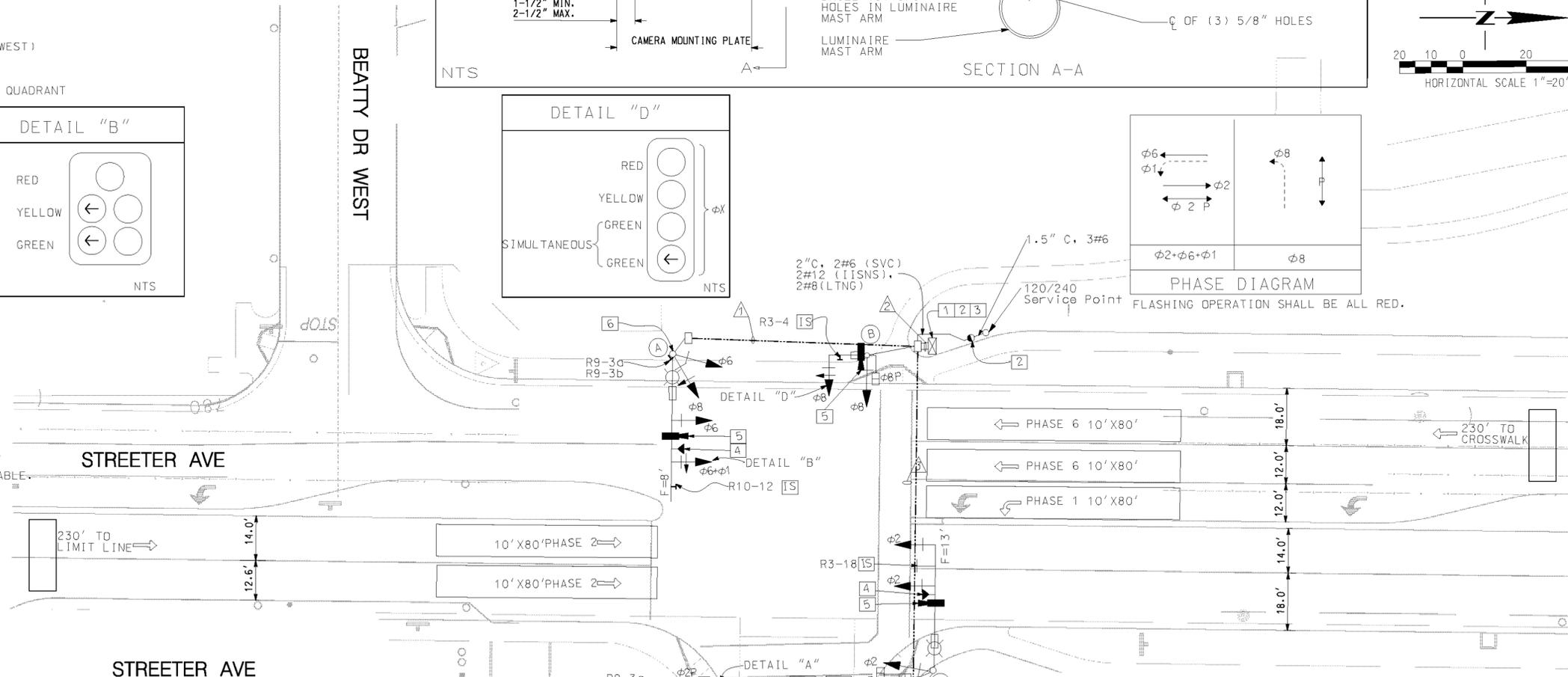
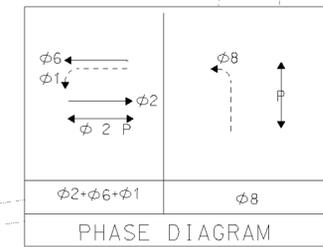
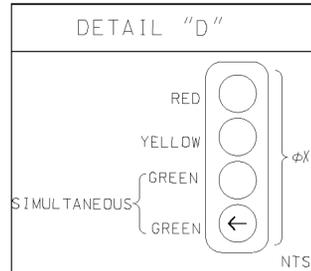
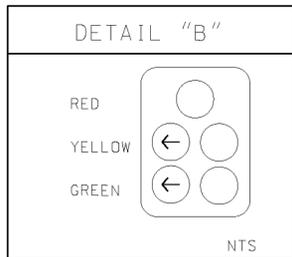
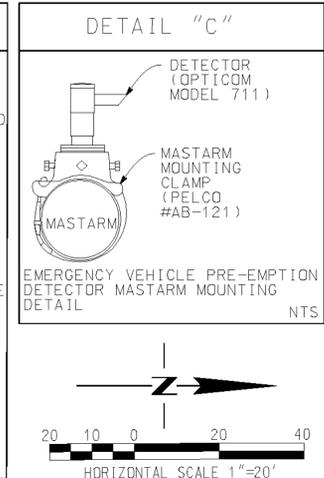
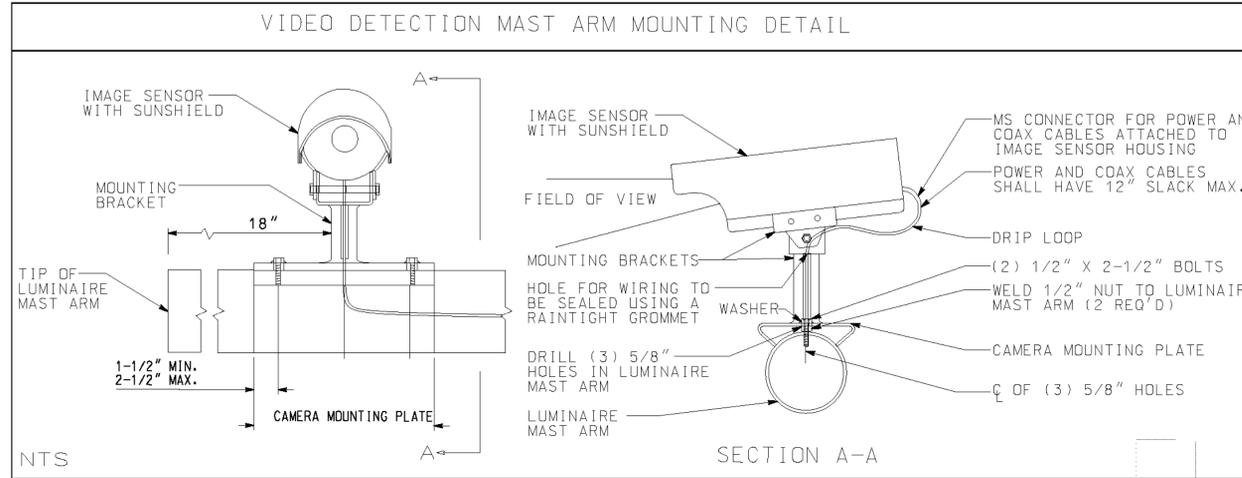
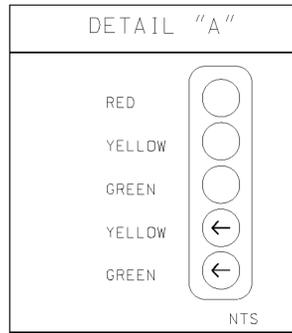
**TRAFFIC SIGNAL GENERAL NOTES:**

- 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 MAY 2006; THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ADOPTED 2010; 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 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.
- 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).
- UNDERGROUND SIGNAL CONDUCTORS SHALL NOT BE SPLICED.
- PULL BOXES SHALL BE NO. 6 WITH FIBERLITE LIDS LABELED "TRAFFIC" 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.

**TRAFFIC SIGNAL GENERAL NOTES CONT.**

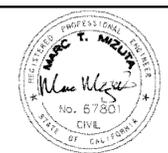
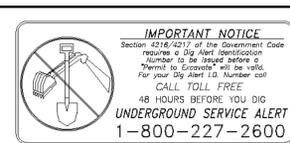
- NEW MAST ARM MOUNTED SIGN SHALL BE FABRICATED WITH 3M DG3 (ASTM TYPE XI) REFLECTIVE SHEETING OR APPROVED EQUAL MINIMUM SIGN SIZE SHALL BE 30" X 30".
- VEHICLE HEADS SHALL BE 12" LED TYPE. THE HOUSING, BACKPLATES AND VISORS SHALL BE METAL.
- INTERNALLY ILLUMINATED STREET NAME SIGNS (IISNS) SHALL BE TYPE "A" WITH L.E.D. LIGHTING SYSTEMS. STREET NAME LEGENDS SHALL BE UPPER/LOWER CASE AND SHALL INCLUDE BLOCK NUMBERS AND ROAD NAME SUFFIXES.
- 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](http://WWW.RIVERSIDEPUBLICUTILITIES.COM).

AS BUILT  
(NO CORRECTIONS ON THIS SHEET)  
BID No. 7094  
C.C.A. DATE 08-20-15  
R.E. NAME MICHAEL WOLFF



**CONSTRUCTION NOTES:**

- CONTRACTOR SHALL CONSTRUCT (TYPE 332 CABINET) FOUNDATION. CONTRACTOR SHALL FURNISH AND INSTALL MODEL 170ATC-OF CONTROLLER ASSEMBLY IN MODEL 332 ANODIZED ALUMINUM CABINET, COMPLETE WITH DETECTION SHOWN AND AUXILIARY EQUIPMENT WITHIN A TYPE 332 CABINET PER CITY OF RIVERSIDE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE A 17" LCD FLIP UP VIDEO DETECTION MONITOR, RACK MOUNTED.
- INSTALL ELECTRICAL SERVICE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 667. CONTRACTOR SHALL COORDINATE WITH CITY OF RIVERSIDE ELECTRICAL UTILITY DEPARTMENT AT (951) 826-5452 FOR ELECTRICAL SERVICE A MINIMUM OF THREE WEEKS PRIOR TO TRAFFIC SIGNAL TURN ON.
- CONTRACTOR SHALL PROVIDE AND INSTALL AN UNINTERRUPTED POWER SUPPLY (UPS). THE UPS UNIT AND BATTERIES SHALL BE INSTALLED IN A CABINET, EXTERNALLY MOUNTED TO THE CONTROLLER CABINET.
- INSTALL ONE (1) GTT MODEL No. 711 (OR CITY-APPROVED EQUAL) EMERGENCY VEHICLE PRE-EMPTION DETECTOR ASSEMBLY (INCLUDING MOUNTING HARDWARE AND CABLE) FOR EACH DIRECTION, OR OPTICOM MODEL No. 722 (DUAL DIRECTION) AS SHOWN ON PLAN. E.V.P.E. SHALL BE MOUNTED ON THE MAST ARM PER DETAIL "C".
- INSTALL VIDEO DETECTION CAMERA ON LUMINAIRE MAST ARM PER DETAIL. CAMERAS SHALL BE PROGRAMMED BY THE CONTRACTOR. SEE SPECIAL PROVISIONS FOR SPECIFICATIONS. IF NEEDED, CONTRACTOR SHALL PROVIDE RISERS FOR VIDEO DETECTION CAMERAS.
- THE CONTRACTOR SHALL PROVIDE A SHAFT MOUNTED TRANSCEIVER PER THE SPECIAL PROVISIONS. CONTRACTOR SHALL POSITION RADIO TOWARDS NEAREST ACCESS POINT TO ENSURE PROPER RF LEVELS.
- INSTALL MAST ARM SIGN AS NOTED.



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT		X-171
STREETER AVENUE UNDERPASS		
PROPOSED SIGNAL IMPROVEMENTS		SHEET 36 OF 191
DESIGNED BY: MWP DRAWN BY: SRP CHECKED BY: JMT		FILE NO.

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DATE: 8/7/2012 TIME: 10:58:40 AM

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