

### CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS							
		1	2	3	4	5	6	7	8
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 CSC	1(N)	2(N)	1 2(N)	6 2(N)	4	3	2	1
	3 CSC	1(N)	3(N)	1 3(N)	6 3(N)	4	3	2	1
DETECTOR CABLE	TYPE B								
PHASE 1				1 1(N)					
PHASE 2				4(N)	4(N)	4(N)	4(N)	4(N)	
PHASE 3				1 1(N)	1 1(N)	1 1(N)			
PHASE 4			3(N)	3(N)	3(N)				
PHASE 5				2(N)	2(N)	2(N)	2(N)	2(N)	
PHASE 6				2					
PHASE 7			2(N)	2(N)	2(N)				
PHASE 8				2 1(N)	2 1(N)				
I.I.S.N.S.	#12	2(N)	2(N)	2(N)		2	2	2	
LUMINAIRES	#8	2(N)	2(N)	2(N)		2	2	2	
SIGNAL SERVICE	#6			2	2				
WIMAX TRANSCEIVER	CAT-5			1(N)	1(N)				
VEHICLE PREEMPTION	#20/3	1(N)	1(N)	1 1(N)	3 1(N)	2	1	1	
CONDUIT SIZE		3"(N)	3"(N)	3"	2-3"	3"	3"	3"	3"

ALL CONDUIT AND CONDUCTORS ARE EXISTING UNLESS OTHERWISE NOTED: (N) = NEW

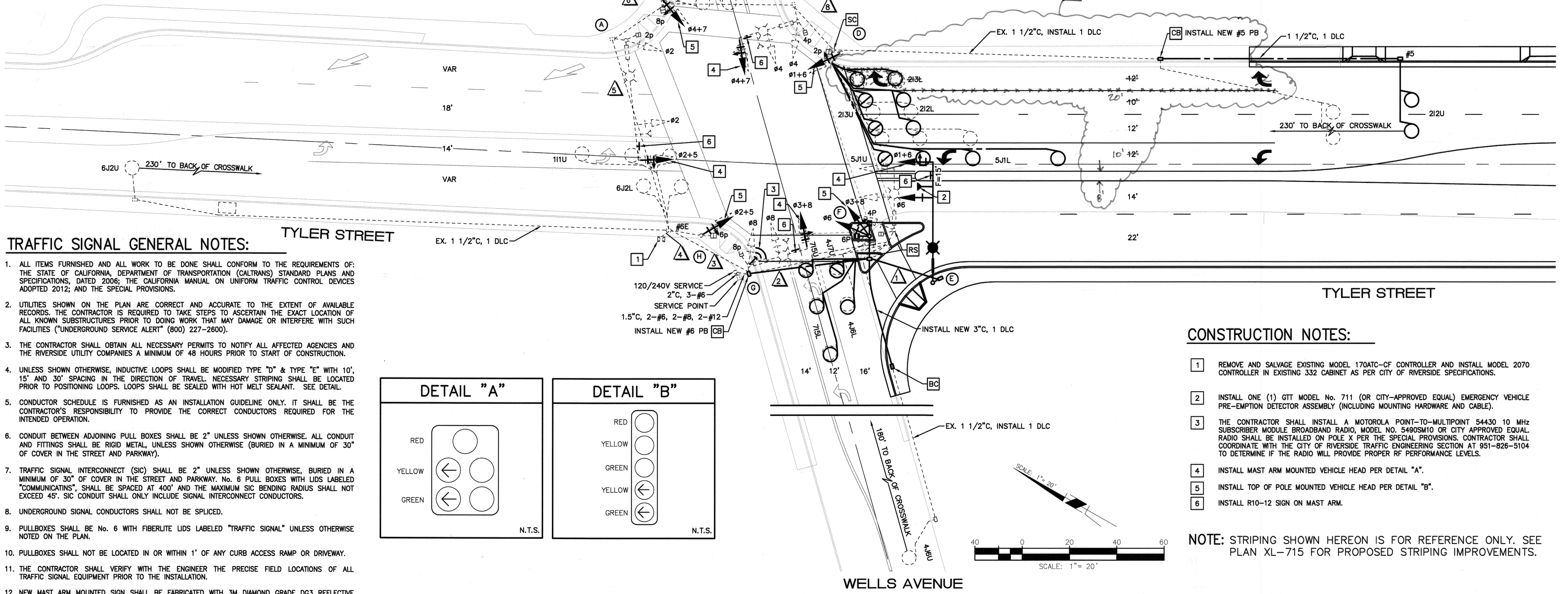
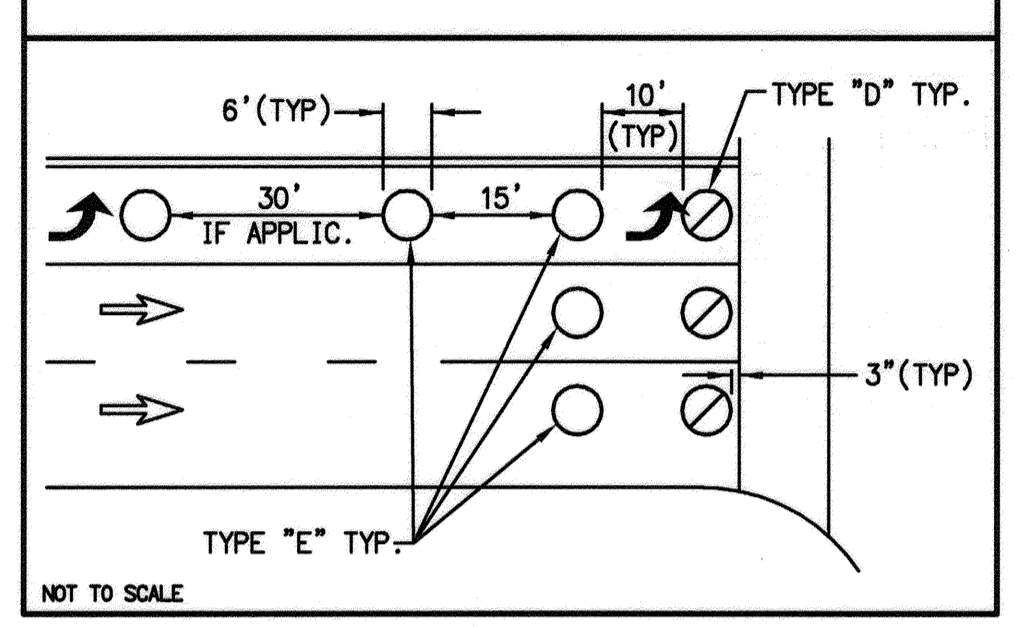
### EQUIPMENT SCHEDULE

No.	TYPE	STANDARD			LUMINAIRE LED	ISNS LEGEND	SIGNAL MOUNTING			PPB PHASE	REMARKS		
		HGT.	SIG. M.A.	LUM. M.A.			VEHICLE	PED	AUDIBLE				
A	29-5-80	30'	50'	12'	250W(N)	Wells	AVE 4800	MAS/MAS(N)	SV-1-T	SP-1-T	((P))	#8	REMOVE AND SALVAGE EXIST. MAS
B	1A	10'	-	-	-	-	-	-	TV-1-T(N)	SP-1-T	((C))	#2	REMOVE AND SALVAGE EXIST. TV-1-T
C	19-4-80	30'	25'	12'	250W(N)	Tyler	ST 4700	MAS/MAS(N)	SV-1-T	SP-1-T	((C))	#2	REMOVE AND SALVAGE EXIST. MAS
D	1A	10'	-	-	-	-	-	-	TV-1-T(N)	SP-1-T	((P))	#4	REMOVE AND SALVAGE EXIST. TV-1-T
E	29-5-100(N)	30'	50'(N)	15'(N)	250W(N)	Wells(N)	AVE 10300	2-MAS(N)	-	-	-	-	RS EXIST. POLE AND EQUIPMENT
F	1A(N)	10'	-	-	-	-	-	-	TV-2-T(N)	SP-2-T(N)	((C))((P))	4(N),6(N)	RS EXIST. POLE AND EQUIPMENT
G	19-4-80	30'	25'	12'	250W(N)	Tyler	ST 4800	MAS/MAS(N)	SV-1-T	SP-1-T	((C))	#6	REMOVE AND SALVAGE EXIST. MAS
H	1A	10'	-	-	-	-	-	-	TV-1-T(N)	SP-1-T	((P))	#8	REMOVE AND SALVAGE EXIST. TV-1-T

ALL EQUIPMENT EXISTING UNLESS NOTED OTHERWISE: (N) = NEW  
 PEDESTRIAN AUDIBLES: C=CUCKOO (NORTH/SOUTH), P=PEEP PEEP (EAST/WEST)

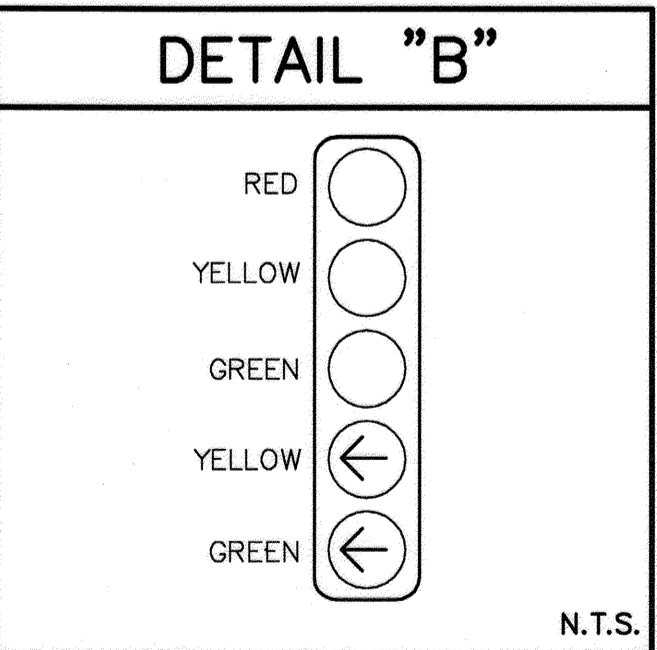
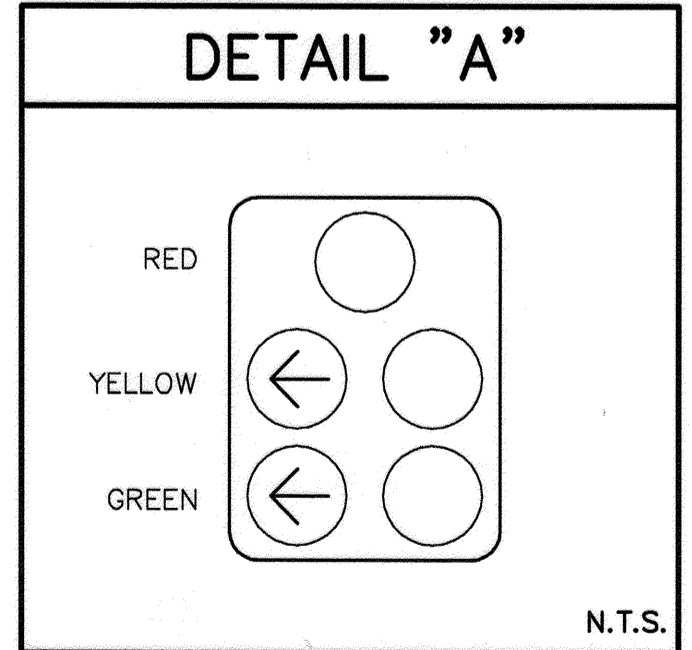
- ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.
- PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.
- ALL PEDESTRIAN HEADS SHALL BE LED COUNTDOWN HEADS.

#### TYPICAL LOOP DETECTOR LAYOUT



#### TRAFFIC SIGNAL GENERAL NOTES:

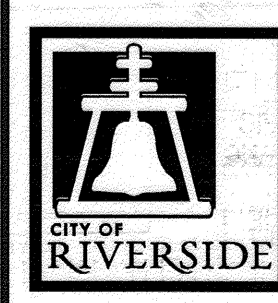
- ALL ITEMS FURNISHED AND ALL WORK TO BE DONE SHALL CONFORM TO THE REQUIREMENTS OF: THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS, DATED 2006; THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ADOPTED 2012; AND THE SPECIAL PROVISIONS.
- UTILITIES 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.
- UNLESS SHOWN OTHERWISE, INDUCTIVE LOOPS SHALL BE MODIFIED TYPE "D" & TYPE "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.
- PULLBOXES SHALL BE NO. 6 WITH FIBERLITE LIDS LABELED "TRAFFIC SIGNAL" UNLESS OTHERWISE NOTED ON THE PLAN.
- PULLBOXES 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.
- 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.
- SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE CITY OF RIVERSIDE TRAFFIC SIGNAL MAINTENANCE YARD.
- 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.



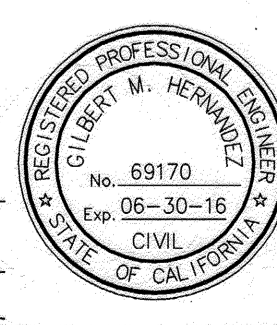
#### CONSTRUCTION NOTES:

- REMOVE AND SALVAGE EXISTING MODEL 170ATC-CF CONTROLLER AND INSTALL MODEL 2070 CONTROLLER IN EXISTING 332 CABINET AS PER CITY OF RIVERSIDE SPECIFICATIONS.
- INSTALL ONE (1) GIT MODEL No. 711 (OR CITY-APPROVED EQUAL) EMERGENCY VEHICLE PRE-EMPTION DETECTOR ASSEMBLY (INCLUDING MOUNTING HARDWARE AND CABLE).
- THE CONTRACTOR SHALL INSTALL A MOTOROLA POINT-TO-MULTIPOINT 54430 10 MHz SUBSCRIBER MODULE BROADBAND RADIO, MODEL NO. 5490SM10 OR CITY APPROVED EQUAL. RADIO SHALL BE INSTALLED ON POLE X PER THE SPECIAL PROVISIONS. CONTRACTOR SHALL COORDINATE WITH THE CITY OF RIVERSIDE TRAFFIC ENGINEERING SECTION AT 951-826-5104 TO DETERMINE IF THE RADIO WILL PROVIDE PROPER RF PERFORMANCE LEVELS.
- INSTALL MAST ARM MOUNTED VEHICLE HEAD PER DETAIL "A".
- INSTALL TOP OF POLE MOUNTED VEHICLE HEAD PER DETAIL "B".
- INSTALL R10-12 SIGN ON MAST ARM.

NOTE: STRIPING SHOWN HEREON IS FOR REFERENCE ONLY. SEE PLAN XL-715 FOR PROPOSED STRIPING IMPROVEMENTS.



**ENGINEER IN RESPONSIBLE CHARGE**  
 GILBERT M. HERNANDEZ  
 R.C.E. No. 69170 EXPIRES: 8-30-16  
 DATE: 5/21/15



DESIGNED BY: MAC DRAWN BY: MAC CHECKED BY: GMH  
 LANE DIMS.  
 REMOVE RT POCKET CHANGE  
 REVISIONS: 1  
 APPR. DATE: 5/21/15

**CITY OF RIVERSIDE, CALIFORNIA**  
**DEPARTMENT OF PUBLIC WORKS**  
 APPROVED BY: [Signature] DATE: 5/21/15  
 BY: [Signature] DATE: 5/21/15  
 TRAFFIC DIVISION  
 CONSTRUCTION ADMIN. DATE: 5/21/15

**TRAFFIC SIGNAL PLAN**  
**TYLER STREET AND WELLS AVENUE**  
 SCALE: 1" = 20'

**X-429**  
 SHEET 1 OF 1  
 FILE NAME: X429.DWG