

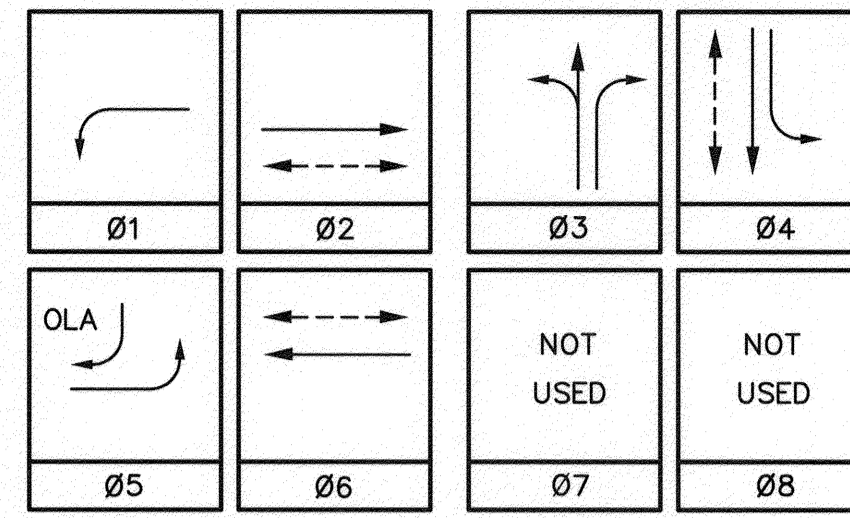
EQUIPMENT SCHEDULE

No.	TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUMINAIRE L.E.D.	IISNS LEGEND	SIGNAL MOUNTING			PPB PHASE	REMARKS	
							VEHICLE	PED	AUDIBLE			
A	15TS(N)	30'	-	12'(N)	250W(N)	Riverside Ave 6100 (N)	-	SV-1-T(N)	SP-1-T(RL)	((C))	#6(N)	IISNS SHAFT MOUNTED
B	18-3-100(N)	17'	25'(N)	-	-	Riverside Ave 6200 (N)	-	SV-1-T(N)	-	-	-	**SV-1-T AT 17' HIGH MOUNT
C	24-4-80	30'	35'	12'	250W(N)	Sunnyside Dr 3400 (N)	2-MAS	SV-1-T	SP-1-T	((C))	#3(RS)	PPB HOLE MUST BE PLUGGED IN POLE
D	1A(N)	10'	-	-	-	-	-	TV-1-T(N)	-	-	#2(N)	-
E	15TS(N)	30'	-	12'(N)	250W(N)	-	-	-	-	-	#2(N)	-
F	1A(RL)	10'	-	-	-	-	-	TV-1-T(RL)	SP-1-T(RL)	((C))	-	-
G	18-3-100(N)	17'	25'(N)	-	-	Riverside Ave 6200 (N)	MAS(N)	SV-1-T(RL)	SP-1-T(RL)	((P))	#4(N)	RELOCATE EXISTING IISNS
H	19-4-80	30'	30'	12'	250W(N)	Merrill Ave 3500 (N)	2-MAS	SV-1-T	SP-1-T	((C))	#4(N)	-
I	1A	10'	-	-	-	-	-	SV-1-T	SP-1-T	((P))	#6(N)	-

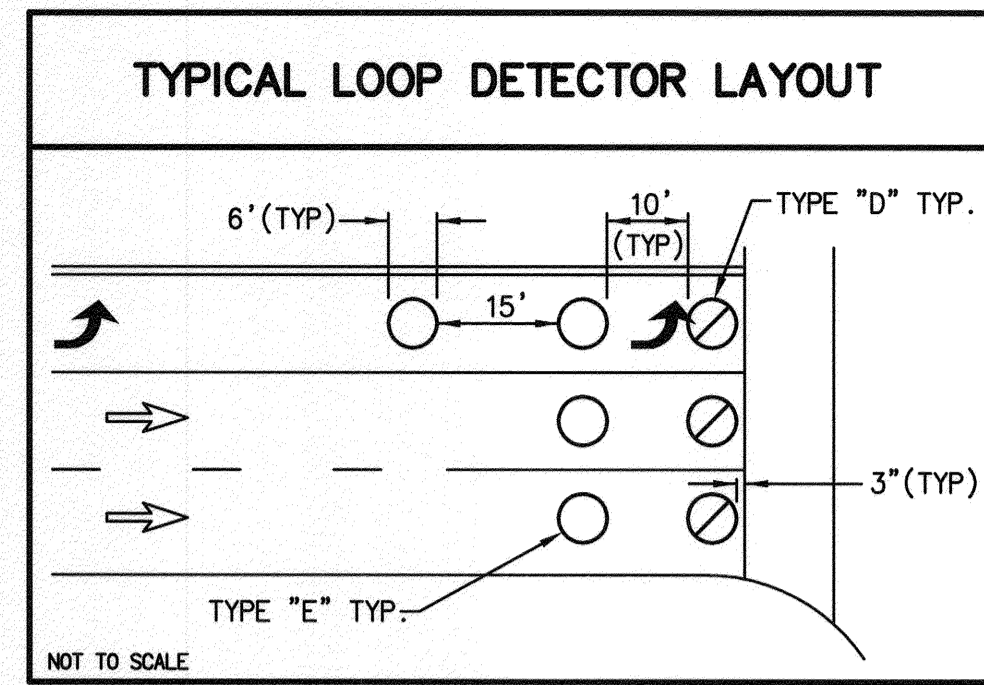
PEDESTRIAN AUDIBLES: C=CUCKOO (NORTH/SOUTH), P=PEEP PEEP (EAST/WEST) RS=REMOVE AND SALVAGE RL=RELOCATE N=NEW

- 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.
- ALL LEFT TURN VEHICLE HEADS SHALL HAVE ALL ARROWS.
- LUMINARIES SHALL BE L.E.D. TYPE PER CITY SPECIFICATIONS.

PHASE DIAGRAM



FLASHING OPERATION SHALL BE ALL RED.



SEE STD. DWG. 670 FOR TYPE "D" LOOP CONFIGURATION

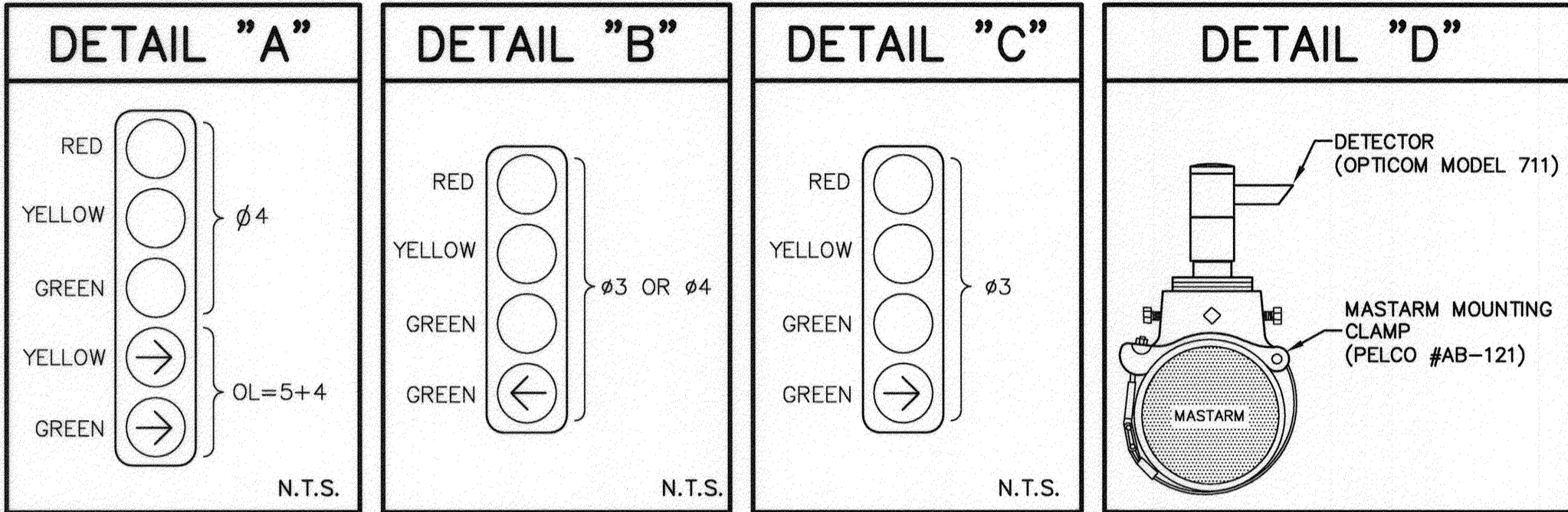
CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS								
		1	2	3	4	5	6	7	8	9
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 CSC	1	2	3	4	5	1	2	3	8
	3 CSC	1(F)	2	3	4	5	1(F)	2	3	8

DETECTOR CABLE	TYPE B	1	2	3	4	5	6	7	8	9
PHASE 1							2	2	2	2
PHASE 2					3	3				3
PHASE 3				3	3	3				3
PHASE 4									2	2
PHASE 5					2	2				2
PHASE 6							3	3	3	3

I.I.S.N.S.	#12	2	2	2	2	2	2	2	2	2
LUMINAIRES	#8	2	2	2	2	2	2	2	2	2
SIGNAL SERVICE	#6					2	2	2	2	2
SIGNAL INTERCONNECT	3PR #19					1	1	1	1	1
VEHICLE PREEMPTION	#20/3	2	2	2	3	3	1	1	1	4

**NOTE: ALL CONDUCTORS AND CONDUIT SHALL BE NEW.
(F) = INSTALL FOR FUTURE USE



- ### LEGEND:
- CC CONNECT NEW TO EXISTING CONDUIT
 - BC INSTALL NEW PULLBOX INTO EXISTING CONDUIT RUN
 - CB INSTALL NEW CONDUIT INTO EXISTING PULLBOX
 - RL RELOCATE EXISTING EQUIPMENT AS NOTED
 - IS INSTALL NEW EQUIPMENT AS NOTED
 - RS REMOVE AND SALVAGE EXISTING EQUIPMENT

TRAFFIC SIGNAL GENERAL NOTES:

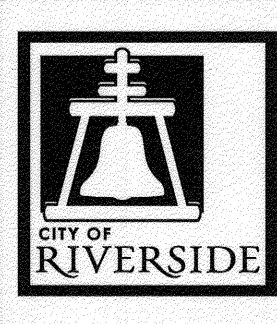
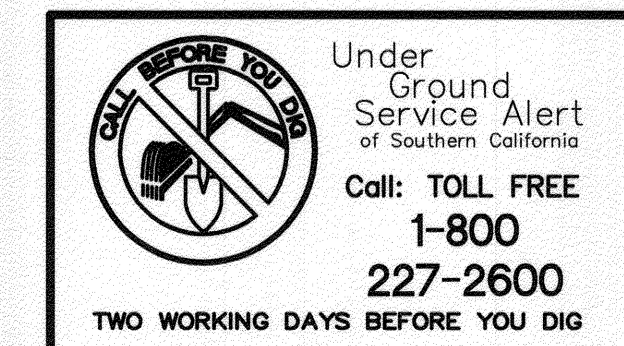
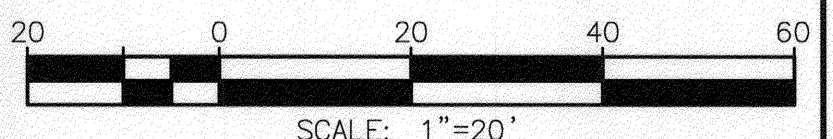
- ALL ITEMS FURNISHED AND ALL WORK TO BE DONE SHALL CONFORM TO THE REQUIREMENTS OF: THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS, DATED 2006; THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ADOPTED 2012; AND THE SPECIAL PROVISIONS.
- UTILITIES 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 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 "COMMUNICATIONS", 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.

CONSTRUCTION NOTES:

- REMOVE AND SALVAGE EXISTING TYPE 170 CONTROLLER AND TYPE 332 CABINET.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW TYPE 332 CABINET AND CONSTRUCT (TYPE 332 CABINET) FOUNDATION. CONTRACTOR SHALL FURNISH AND INSTALL MODEL 170ATC-CF CONTROLLER ASSEMBLY WITH ALL APPURTENANCES IN THE CABINET FOR THE PROPOSED CONFIGURATION.
- INSTALL 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 "E". SALVAGE EXISTING EVP EQUIPMENT.
- INSTALL 3"C, 2 EA 24PR #19 SIGNAL INTERCONNECT CABLE
- INSTALL 2"C, 2 EA 24PR #19 SIGNAL INTERCONNECT CABLE
- REMOVE FOUNDATION COMPLETELY
- INSTALL 3"C, 24PR #19 SIGNAL INTERCONNECT CABLE

CONSTRUCTION NOTES THIS DETAIL:

- INSTALL 2" CONDUIT (335 LF) WITH 24-PR #19 SIC
- INSTALL NO. 6 PULL BOX LABELED "COMMUNICATIONS"
- EXISTING AT&T TELEPHONE VAULT (PART OF THE RIVERSIDE GRADE SEPARATION IMPROVEMENTS). CONTRACTOR SHALL INSTALL 3M SCOTCHCAST 78-R1 REENTRABLE SPLICE KIT IN VAULT.
- EXISTING 1.5"C WITHIN AT&T TELEPHONE DUCT WITH 24-PR #19 SIC TO CENTRAL AVE.
- INSTALL 2" CONDUIT (770 LF) WITH 24-PR #19 SIC. INSTALL CONDUIT BEHIND PROPOSED RIVERSIDE GRADE SEPARATION RETAINING WALL.
- EXISTING 1.5"C WITHIN AT&T TELEPHONE DUCT WITH 24-PR #19 SIC TO BRISCOE ST.



ENGINEER IN RESPONSIBLE CHARGE
 GILBERT M. HERNANDEZ
 R.C.E. No. 69170 EXPIRES: 6-30-14
 DATE: 6-20-2013



MARK	REVISIONS	APPR.	DATE

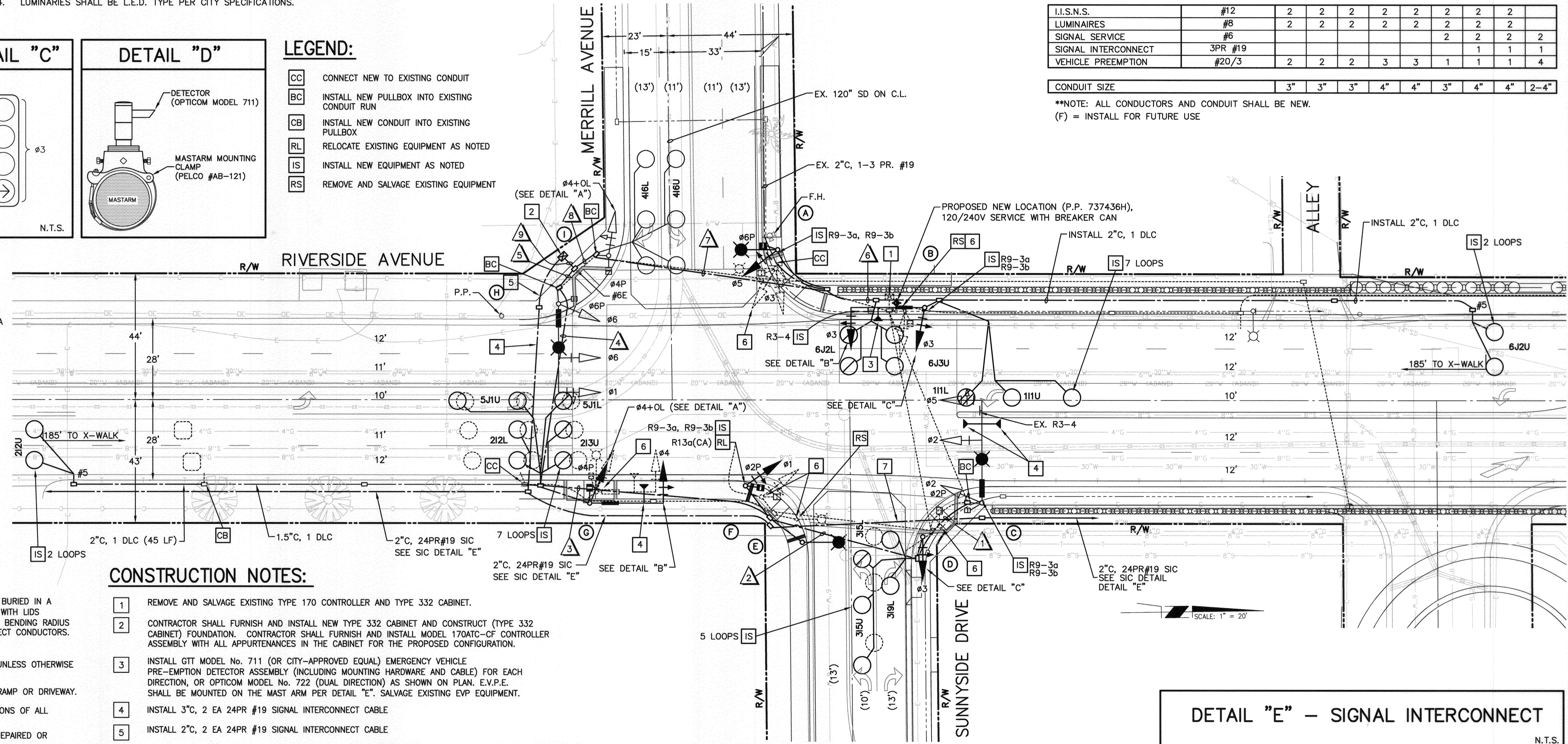
CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: *FM* DATE: *8/23/13*
 ENGINEERING MANAGER
 TRAFFIC DIVISION
 CONSTRUCTION ADMIN. *DC* DATE: *8/29/13*

APPROVED BY: *[Signature]* DATE: *8/29/13*
 CITY ENGINEER

TRAFFIC SIGNAL MODIFICATION
RIVERSIDE AVENUE AND MERRILL AVENUE
 SCALE: 1" = 20'

X-208B
 SHEET 1 OF 1
 FILE NAME: X-208B.DWG



AS-BUILT