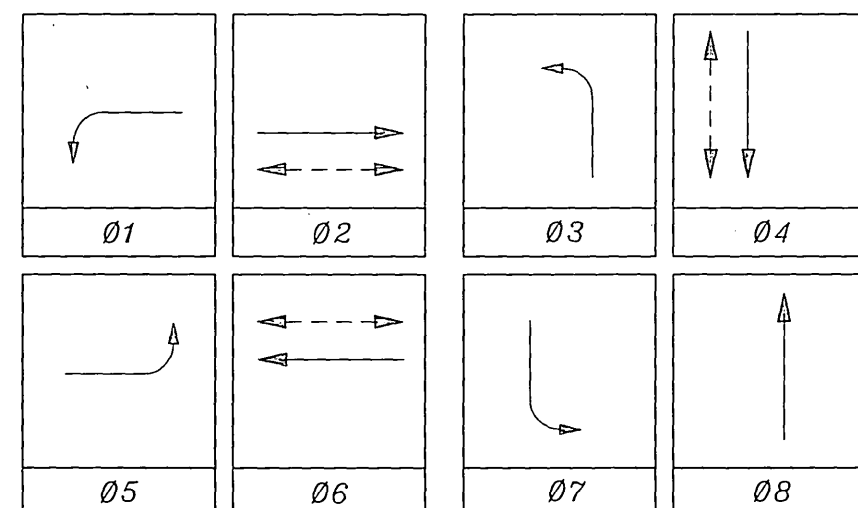


PP #22586J

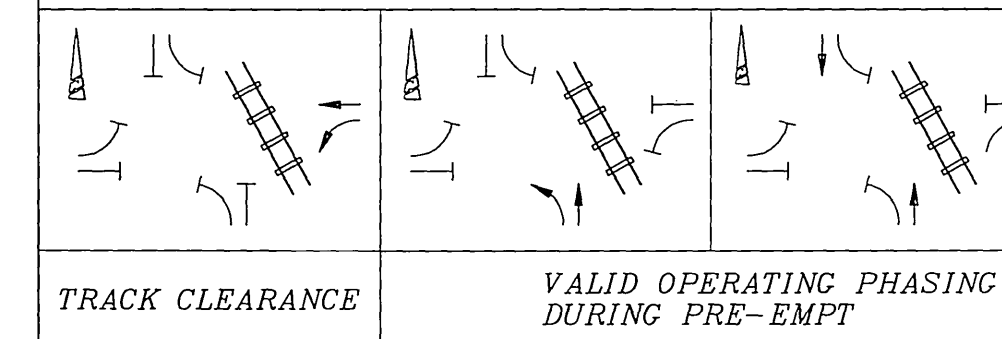
**RISER DETAIL**  
120V SIGNAL, 120V SIGN  
AND 240V STREET LIGHT SERVICE  
PER STANDARD DRAWING NO. 612.

**PHASE DIAGRAM**



FLASHING OPERATION SHALL BE ALL RED.

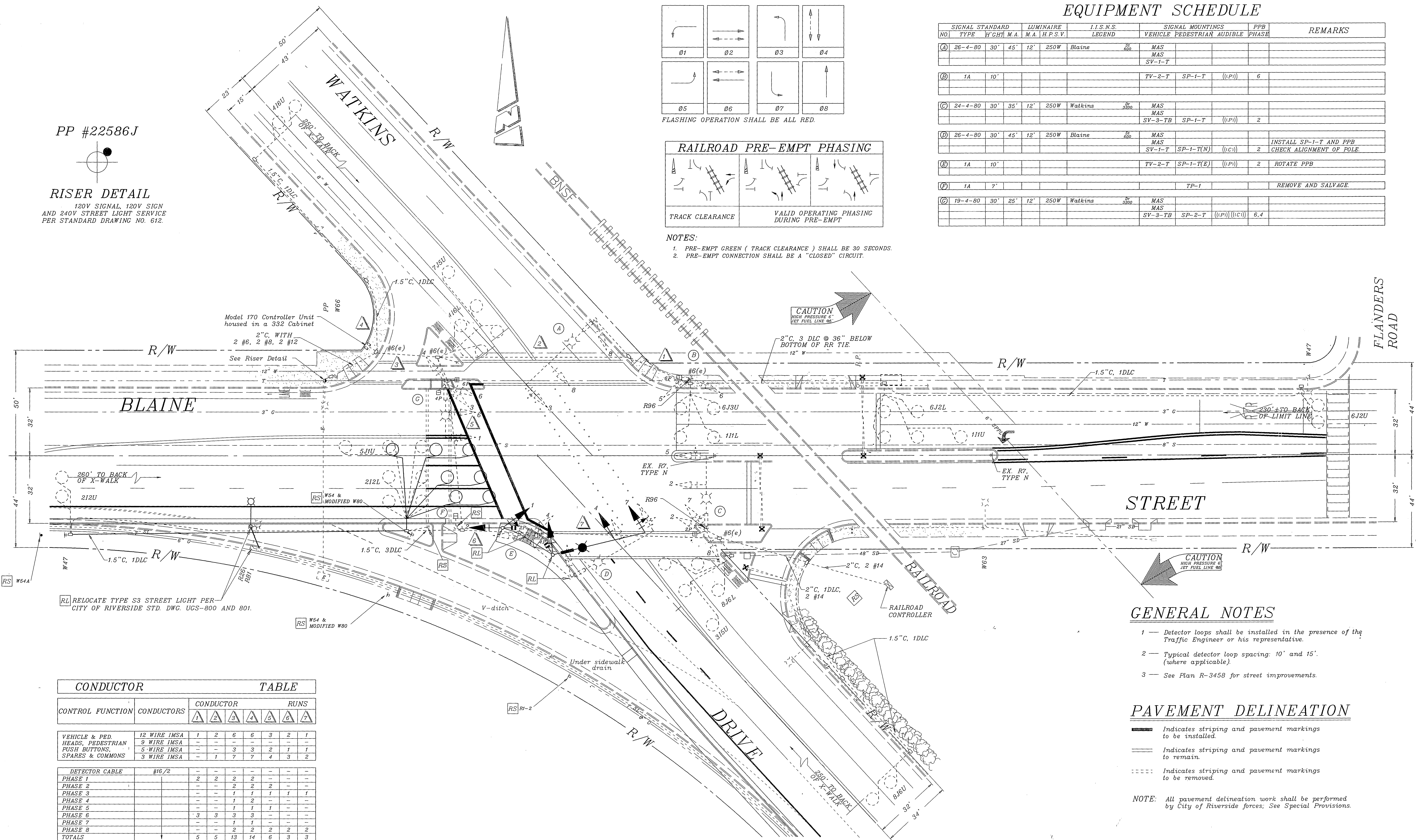
**RAILROAD PRE-EMPT PHASING**



- NOTES:**
1. PRE-EMPT GREEN ( TRACK CLEARANCE ) SHALL BE 30 SECONDS.
  2. PRE-EMPT CONNECTION SHALL BE A "CLOSED" CIRCUIT.

**EQUIPMENT SCHEDULE**

NO.	SIGNAL STANDARD TYPE	H'GHT	M.A.	LUMINAIRE M.A.	I.I.S.N.S. H.P.S.V.	LEGEND	SIGNAL MOUNTINGS			PPB PHASE	REMARKS
							VEHICLE	PEDESTRIAN	AUDIBLE		
Ⓐ	26-4-80	30'	45'	12'	250W	Blaine	SV-3-TB	SP-1-T	((IP))	6	
Ⓑ	1A	10'					TV-2-T	SP-1-T	((IP))	2	
Ⓒ	24-4-80	30'	35'	12'	250W	Watkins	SV-3-TB	SP-1-T	((IP))	2	
Ⓓ	26-4-80	30'	45'	12'	250W	Blaine	SV-1-T	SP-1-T(N)	((IC))	2	INSTALL SP-1-T AND PPB CHECK ALIGNMENT OF POLE.
Ⓔ	1A	10'					TV-2-T	SP-1-T(E)	((IP))	2	ROTATE PPB
Ⓕ	1A	7'					TP-1				REMOVE AND SALVAGE.
Ⓖ	19-4-80	30'	25'	12'	250W	Watkins	SV-3-TB	SP-2-T	((IP))((IC))	6,4	



**GENERAL NOTES**

- 1 - Detector loops shall be installed in the presence of the Traffic Engineer or his representative.
- 2 - Typical detector loop spacing: 10' and 15' (where applicable).
- 3 - See Plan R-3458 for street improvements.

**PAVEMENT DELINEATION**

- Indicates striping and pavement markings to be installed.
- Indicates striping and pavement markings to remain.
- Indicates striping and pavement markings to be removed.

NOTE: All pavement delineation work shall be performed by City of Riverside forces; See Special Provisions.

**CONDUCTOR TABLE**

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS						
		1	2	3	4	5	6	7
VEHICLE & PED HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA 9 WIRE IMSA 5 WIRE IMSA 3 WIRE IMSA	1	2	6	6	3	2	1

DETECTOR CABLE	#16/2	1	2	3	4	5	6	7
PHASE 1	2	2	2	2	2	2	2	2
PHASE 2	2	2	2	2	2	2	2	2
PHASE 3	1	1	1	1	1	1	1	1
PHASE 4	1	1	1	1	1	1	1	1
PHASE 5	1	1	1	1	1	1	1	1
PHASE 6	3	3	3	3	3	3	3	3
PHASE 7	1	1	1	1	1	1	1	1
PHASE B	2	2	2	2	2	2	2	2
TOTALS	5	5	13	14	6	3	3	3

RAILROAD PRE-EMPT	#14	2	2	2	2	2	2	2
I.I.S.N.S.	#12	2	2	2	2	2	2	2
LUMINAIRES	#8	2	2	2	2	2	2	2
SIGNAL SERVICE	#6	2	2	2	2	2	2	2

CONDUIT SIZE	2.5"	3"	2-3"	2-3"	1.5"	3"	2"
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**IMPORTANT NOTICE**  
Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID, Number call CALL TOLL FREE 1-800-227-2600  
TWO WORKING DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT

**ENGINEER IN RESPONSIBLE CHARGE**  
THOMAS JOHN BOYD  
R.C.E. NO. 36170  
DATE 9/16/98

REGISTERED PROFESSIONAL ENGINEER  
THOMAS JOHN BOYD  
No. 36170  
Exp. 06-30-2000  
CIVIL  
STATE OF CALIFORNIA

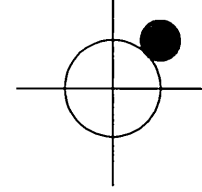
DESIGNED BY MAC DRAWN BY MAC CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY: [Signature] DATE: 9/10/98  
PRINCIPAL ENGINEER  
P.W. INSPECTION  
TRAFFIC DIVISION  
CHIEF P.W. ENGR.  
PUBLIC UTILITIES

TRAFFIC SIGNAL MODIFICATION  
**BLAINE STREET AND WATKINS DRIVE**  
SCALE: 1" = 20'

ACCT. NO. 432-541500-440302-30279  
**X-371A**  
SHEET 1 OF 1  
FILE NAME: X371A.DWG

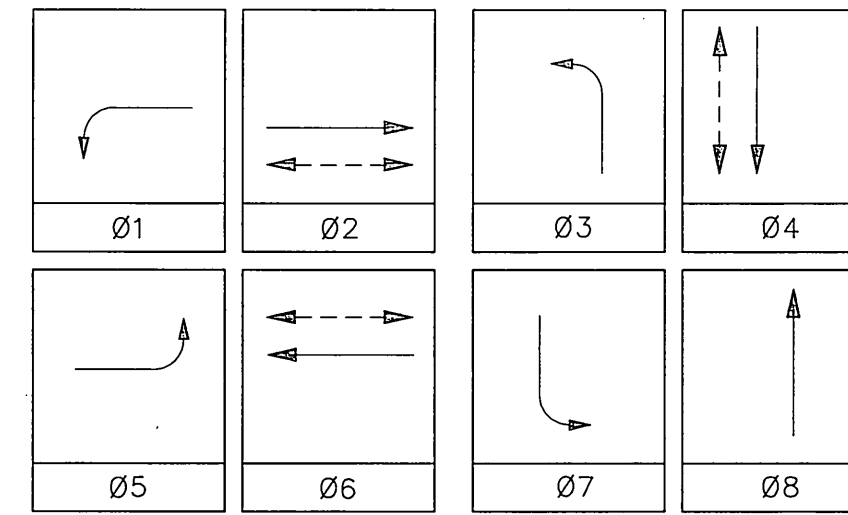
PP #22586J



**RISER DETAIL**

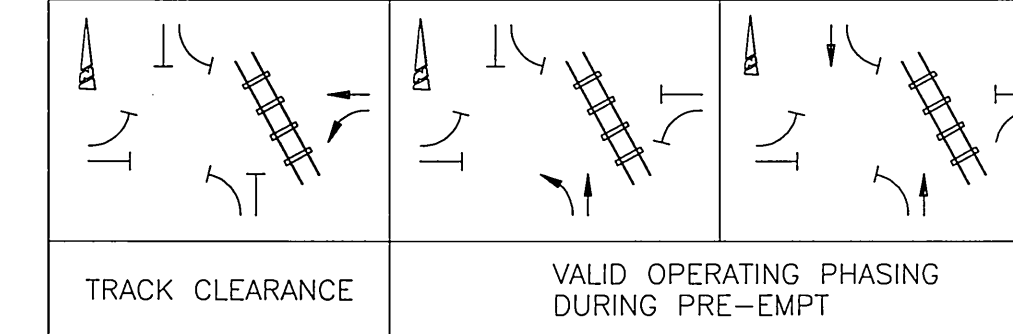
INSTALL 120V SIGNAL, 120V SIGN AND 240V STREET LIGHT SERVICE PER STANDARD DRAWING NO. 612.

**PHASE DIAGRAM**



FLASHING OPERATION SHALL BE ALL RED.

**RAILROAD PRE-EMPT PHASING**



**NOTES:**

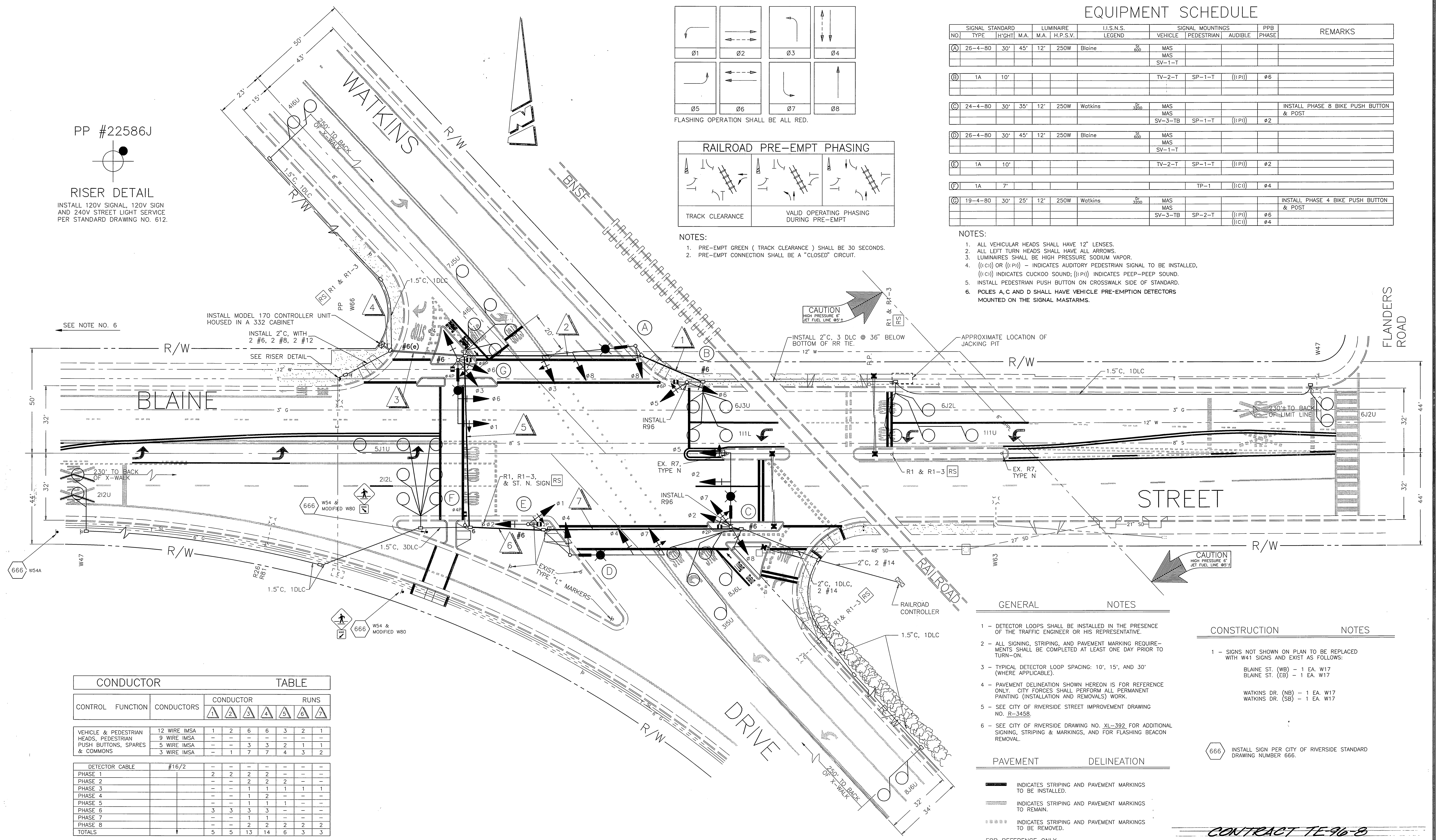
1. PRE-EMPT GREEN ( TRACK CLEARANCE ) SHALL BE 30 SECONDS.
2. PRE-EMPT CONNECTION SHALL BE A "CLOSED" CIRCUIT.

**EQUIPMENT SCHEDULE**

NO.	SIGNAL STANDARD		LUMINAIRE			I.I.S.N.S. LEGEND	SIGNAL MOUNTINGS			PPB PHASE	REMARKS
	TYPE	H'GHT	M.A.	M.A.	H.P.S.V.		VEHICLE	PEDESTRIAN	AUDIBLE		
(A)	26-4-80	30'	45'	12'	250W	Blaine	3200	MAS			
								MAS			
								SV-1-T			
(B)	1A	10'						TV-2-T	SP-1-T	((IPI))	Ø6
(C)	24-4-80	30'	35'	12'	250W	Watkins	3200	MAS			INSTALL PHASE 8 BIKE PUSH BUTTON & POST
								MAS			
								SV-3-TB	SP-1-T	((IPI))	Ø2
(D)	26-4-80	30'	45'	12'	250W	Blaine	3200	MAS			
								MAS			
								SV-1-T			
(E)	1A	10'						TV-2-T	SP-1-T	((IPI))	Ø2
(F)	1A	7'						TP-1		((ICI))	Ø4
(G)	19-4-80	30'	25'	12'	250W	Watkins	3200	MAS			INSTALL PHASE 4 BIKE PUSH BUTTON & POST
								MAS			
								SV-3-TB	SP-2-T	((IPI))	Ø6
										((ICI))	Ø4

**NOTES:**

1. ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.
2. ALL LEFT TURN HEADS SHALL HAVE ALL ARROWS.
3. LUMINAIRES SHALL BE HIGH PRESSURE SODIUM VAPOR.
4. ((ICI)) OR ((IPI)) - INDICATES AUDITORY PEDESTRIAN SIGNAL TO BE INSTALLED. ((ICI)) INDICATES CUCKOO SOUND; ((IPI)) INDICATES PEEP-PEEP SOUND.
5. INSTALL PEDESTRIAN PUSH BUTTON ON CROSSWALK SIDE OF STANDARD.
6. POLES A, C AND D SHALL HAVE VEHICLE PRE-EMPTION DETECTORS MOUNTED ON THE SIGNAL MASTARMS.



**GENERAL NOTES**

- 1 - DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
- 2 - ALL SIGNING, STRIPING, AND PAVEMENT MARKING REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TURN-ON.
- 3 - TYPICAL DETECTOR LOOP SPACING: 10', 15', AND 30' (WHERE APPLICABLE).
- 4 - PAVEMENT DELINEATION SHOWN HEREON IS FOR REFERENCE ONLY. CITY FORCES SHALL PERFORM ALL PERMANENT PAINTING (INSTALLATION AND REMOVALS) WORK.
- 5 - SEE CITY OF RIVERSIDE STREET IMPROVEMENT DRAWING NO. R-3458.
- 6 - SEE CITY OF RIVERSIDE DRAWING NO. XL-392 FOR ADDITIONAL SIGNING, STRIPING & MARKINGS, AND FOR FLASHING BEACON REMOVAL.

**PAVEMENT DELINEATION**

- INDICATES STRIPING AND PAVEMENT MARKINGS TO BE INSTALLED.
- INDICATES STRIPING AND PAVEMENT MARKINGS TO REMAIN.
- INDICATES STRIPING AND PAVEMENT MARKINGS TO BE REMOVED.

FOR REFERENCE ONLY

**CONSTRUCTION NOTES**

- 1 - SIGNS NOT SHOWN ON PLAN TO BE REPLACED WITH W41 SIGNS AND EXIST AS FOLLOWS:  
 BLAINE ST. (WB) - 1 EA. W17  
 BLAINE ST. (EB) - 1 EA. W17  
 WATKINS DR. (NB) - 1 EA. W17  
 WATKINS DR. (SB) - 1 EA. W17

666 INSTALL SIGN PER CITY OF RIVERSIDE STANDARD DRAWING NUMBER 666.

**CONDUCTOR TABLE**

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS						
		1	2	3	4	5	6	7
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA 9 WIRE IMSA 5 WIRE IMSA 3 WIRE IMSA	1	2	6	6	3	2	1
DETECTOR CABLE	#16/2	-	-	-	-	-	-	-
PHASE 1		2	2	2	2	-	-	-
PHASE 2		-	-	2	2	2	-	-
PHASE 3		-	-	1	1	1	1	1
PHASE 4		-	-	1	2	-	-	-
PHASE 5		-	-	1	1	1	-	-
PHASE 6		3	3	3	3	-	-	-
PHASE 7		-	-	1	1	-	-	-
PHASE 8		-	-	2	2	2	2	2
TOTALS		5	5	13	14	6	3	3
RAILROAD PRE-EMPT	#14	-	-	2	2	2	2	2
I.I.S.N.S.	#12	-	-	2	2	-	2	2
LUMINAIRES	#8	-	-	2	2	-	2	2
SIGNAL SERVICE	#6	-	-	2	-	-	-	-

CONDUIT SIZE: 2.5" 3" 2-3" 2-3" 3.5" 3" 2.5"  
 INSTALL VEHICLE PRE-EMPTION DETECTORS AND CABLE FOR POLES A, C AND D MOUNTING; CABLES SHALL BE INSTALLED FROM MASTARMS TO CABINET.

**IMPORTANT NOTICE**  
 Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Formal Excavation" will be void. For your Dig Alert I.D. Number call CALL TOLL FREE TWO WORKING DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600

**ENGINEER IN RESPONSIBLE CHARGE**  
 Richard D. McGrath  
 R.C.E. NO. 31952  
 DATE 9-27-96

**REGISTERED PROFESSIONAL ENGINEER**  
 RICHARD D. McGRATH  
 No. 31952  
 Exp. 12-31-96  
 CIVIL  
 STATE OF CALIFORNIA

DESIGNED BY: *WTLW/abz* DRAWN BY: *JRC/abz* CHECKED BY: *JRC*

CITY OF RIVERSIDE, CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 APPROVED BY: *[Signature]* DATE: 9/27/96  
 PRINCIPAL ENGINEER: *[Signature]*  
 CHIEF P.W. ENGR. *[Signature]*  
 PUBLIC UTILITIES

TRAFFIC SIGNAL INSTALLATION  
**BLAINE STREET AND WATKINS DRIVE**  
 SCALE: 1" = 20'  
 ACCT. NO. 0430-541600-440222-35016  
 X-371  
 SHEET 1 OF 1  
 FILE NAME: X371.DWG

**CONTRACT TE-96-8**