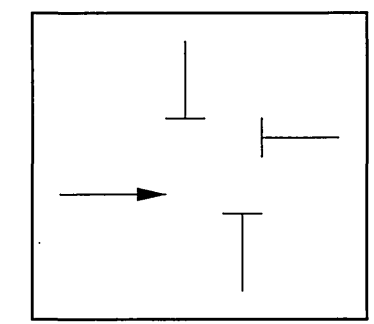


**PAVEMENT DELINEATION**

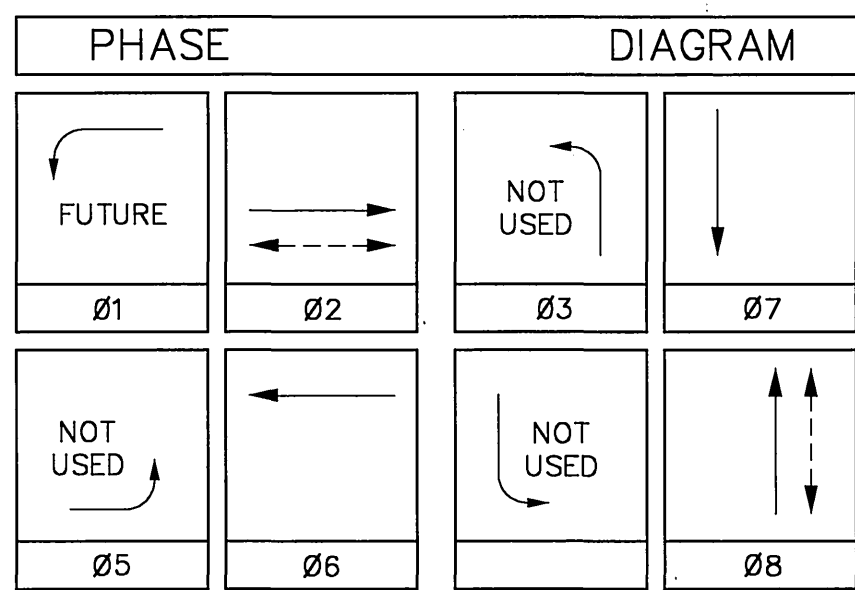
- Indicates striping and pavement markings to be installed.
- Indicates striping and pavement markings to remain.
- Indicates striping and pavement markings to be removed.



PP #32988J

**RISER DETAIL**

EXISTING 120V SIGNAL, 120V SIGN AND 240V STREET LIGHT SERVICE PER STANDARD DRAWING NO. 612 TO BE RELOCATED BY THE CITY



FLASHING OPERATION SHALL BE ALL RED.

**DETECTOR SCHEDULE**

CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	6J3U	3	
2	2I2U	3	
3	2I2L	3	
4	6J2U	3	
5	6J2L	3	
6	7J5U	2	▲
7	8J6U	3	
8	8J6L	3	▲

▲ Delay

**CONDUCTOR TABLE**

CONTROL FUNCTION	CONDUCTORS		CONDUIT RUNS						
	I.M.S.A. SIZE	INSULATION	1	2	3	4	5	6	7
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12	P.E.	1	1	4	3	2	1	1
	9		-	1	2	1	1	1	1
	5		-	-	-	-	-	-	-
	3		1	2	4	2	1	1	1

DETECTOR CABLE	#16/2	P.E.	1	2	3	4	5	6	7	8
PHASE 1			-	-	1	1	1	1	1	1
PHASE 2			-	-	2	2	-	-	-	-
PHASE 3			-	-	-	-	-	-	-	-
PHASE 4			-	-	-	-	-	-	-	-
PHASE 5			-	-	-	-	-	-	-	-
PHASE 6			-	-	2	2	2	2	2	2
PHASE 7			-	-	1	1	1	1	1	1
PHASE 8			-	-	2	2	-	-	-	-

TOTALS	#16/2	P.E.	2	8	6	4	3	3
INTERCONNECT CABLE	#19	P.E.	-	-	-	-	-	-

I.S.N.S.	#12	T.W.	2	2	-	2	2	-
LIMINAIRES	#8	T.H.W.	2	2	-	2	-	-
SIGNAL SERVICE	#6	T.W.	-	-	2	-	-	-

CONDUIT SIZE	2"	2.5"	2-3"	3.5"	3"	2.5"	2"
N = NEW	E	E	N	N	N	E	E

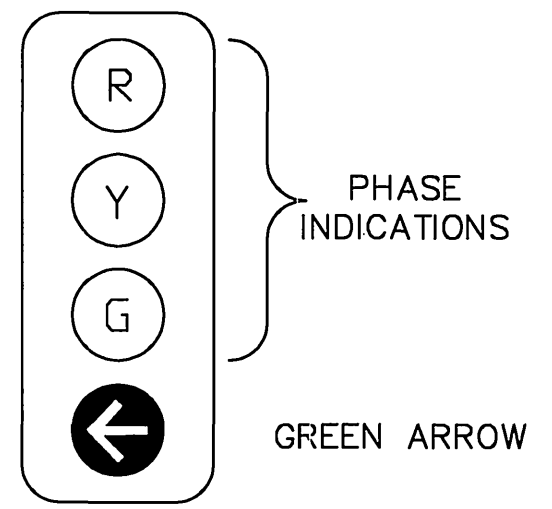
POLE		SCHEDULE									
No.	TYPE	STANDARD HGT.	SIG. M.A.	LUM. M.A.	LUM. HPSV	I.S.N.S. LEGEND	SIGNAL HEAD	VEHICLE	PEDESTRIAN	AUDIBLE	PPB PHASE
(A)	16-2-80	17'	20'			TYLER ST 3300	1W3C	MAS			
							1W4C	SV-1-T			
(B)	1-A	10'					2W3C	TV-2-T	SP-1-T	(●)	8
(C)	19-2-80	30'	25'	12'	250w	INDIANA AVE 4400	1W3C	MAS			
							1W3C	SV-1-T	SP-1-T	(●)	8
(D)	1-A	10'					1W3C	TV-1-T	SP-1-T	(●)	2
(E)	1-A	10'					2W3C	TV-2-T	SP-1-T	(●)	2
(F)	19-4-80	30'	30'	12'	250w	INDIANA AVE 4400	1W3C	MAS			
							1W3C	SV-2-TB			
							1W4C				

**GENERAL NOTES**

- TRAFFIC SIGNAL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MOST CURRENT PROVISIONS OF SECTION 86 OF THE STANDARD SPECIFICATIONS, THE STANDARD PLANS, BOTH PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), THE CONSTRUCTION PLAN(S) AND AS DIRECTED BY THE CITY TRAFFIC ENGINEER.
- THIS TRAFFIC SIGNAL WORK REQUIRES A "STREET OPENING" PERMIT OBTAINED AT THE PUBLIC WORKS DEPARTMENT COUNTER ON THE THIRD FLOOR OF CITY HALL.
- CONTACT TRAFFIC SIGNAL MAINTENANCE (909-351-6096) 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION OF THE WORK PERFORMED. INSPECTION FEE FOR TRAFFIC SIGNAL INSTALLATION OR MODIFICATION SHALL BE AT THE RATE OF \$38.50 PER HOUR.
- UTILITIES SHOWN ON THIS PLAN ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES, PUBLIC OR PRIVATE, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND FACILITIES DAMAGED BY HIS OPERATIONS.
- THE CONTRACTOR SHALL RESTORE OR REPLACE IN KIND ALL EXISTING IMPROVEMENTS DISTURBED DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, TRAFFIC SIGNS, PAVEMENT DELINEATION AND LANDSCAPING.
- CONSTRUCTION WORK THAT WILL CAUSE DAMAGE TO THE DETECTOR LOOP(S) SHALL NOT BE PERFORMED UNTIL TRAFFIC SIGNAL MAINTENANCE PERSONNEL HAVE BEEN NOTIFIED AT (909-351-6096) AND THE NECESSARY TIMING ADJUSTMENT MADE TO MAINTAIN SIGNAL OPERATION.
- ALL EQUIPMENT AND LOOP LOCATIONS SHALL BE APPROVED BY THE TRAFFIC ENGINEER OR HIS DESIGNATED REPRESENTATIVE PRIOR TO INSTALLATION BY THE CONTRACTOR.
- DETECTOR LOOPS SHALL BE INSTALLED IN PRESENCE OF THE TRAFFIC ENGINEER'S REPRESENTATIVE.
- CONDUCTORS FOR EACH LOOP SHALL BE TYPE 1.
- THE SLOTS FOR THE DETECTOR LOOPS SHALL BE CUT TO A DEPTH THAT WILL PROVIDE FOR A ONE INCH COVER OVER THE CONDUCTORS.
- SPLICING OF TRAFFIC SIGNAL CONDUCTORS IS NOT PERMITTED.
- CONDUIT SHALL BE RIGID METALLIC CONDUIT. INTERMEDIATE METALLIC CONDUIT IS NOT ALLOWED.
- REFERENCE IS MADE TO PLAN R-3496 FOR THE ASSOCIATED STREET IMPROVEMENT PROJECT.
- ALL PAVEMENT DELINEATION AND SIGNS SHALL BE INSTALLED AT LEAST 24 HOURS PRIOR TO SIGNAL TURN-ON.
- THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THIS PLAN FOR APPROVAL BY THE CITY.

**CONSTRUCTION NOTES**

- RELOCATED MODEL 170 CONTROLLER UNIT AND 332 CABINET
- REMOVE CONFLICTING STRIPING BY WET SANDBLASTING.
- INSTALL 6" DIAMETER ROUND LOOPS PER PLAN AND AS DIRECTED BY THE ENGINEER.
- ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- INSTALL PULL BOX IN EXISTING CONDUIT RUN.
- CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS SHOWN.
- RELOCATE EQUIPMENT.



DETAIL "A" NO SCALE



**URBAN ENGINEERING**  
 TRAFFIC AND TRANSPORTATION ENGINEERING  
 22028 INDEPENDENCIA ST. WOODLAND HILLS CA 91364 PH: (818) 716-5762

Taher Jalai  
 12-31-98  
 TAHER JALAI, P.E.

CITY OF RIVERSIDE, CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY: [Signature] DATE: 3/3/99  
 P.W. ENGINEERING MANAGER: [Signature] DATE: 11/22/98  
 PRINCIPAL ENGINEER: [Signature] DATE: 11/22/98  
 TRAFFIC DIVISION: [Signature] DATE: 11/22/98

MARK: [Signature] REVISIONS: [Signature] APPR. DATE: [Signature]

TRAFFIC SIGNAL MODIFICATIONS

INDIANA AVENUE AND TYLER STREET

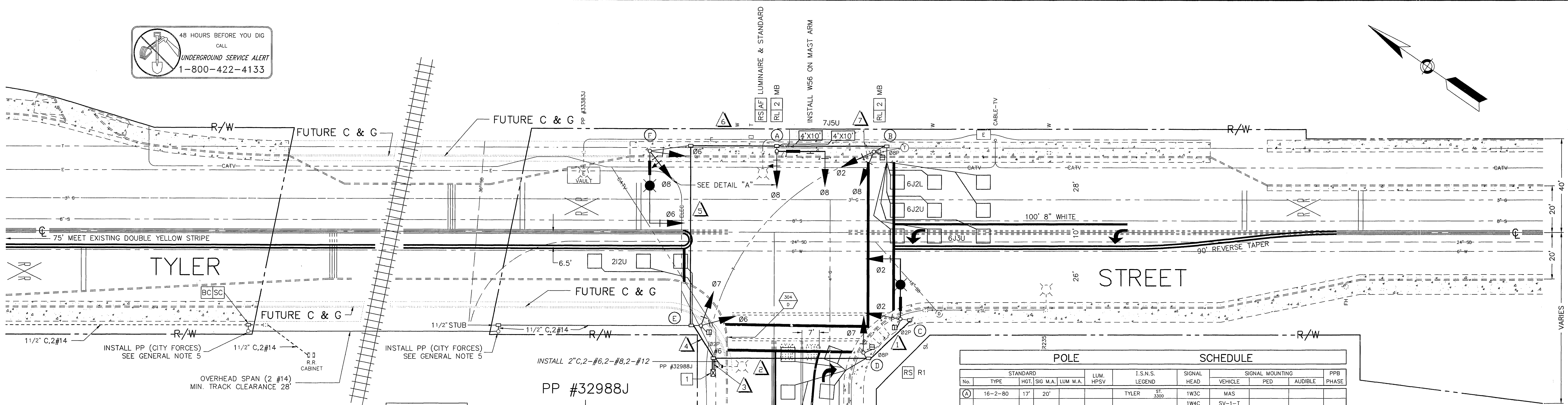
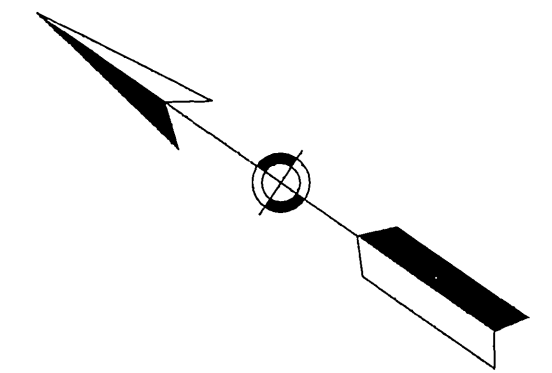
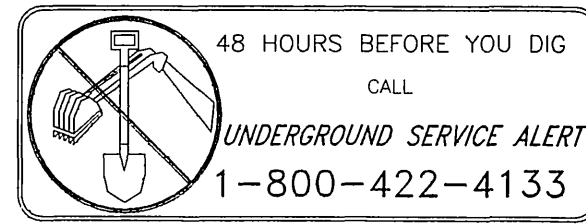
HORIZ. SCALE: 1" = 20'

ACCT. NO. X-374A

SHEET 1 OF 1

FILE NO.

INDEXED 9-7-99  
 FILE # R-3496

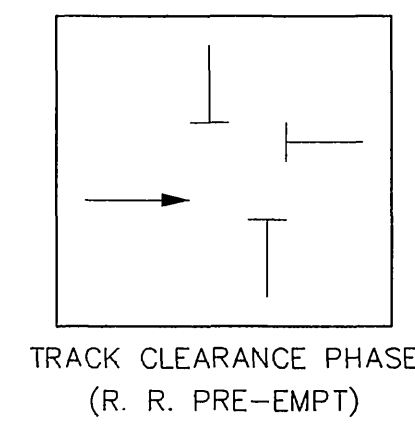


**PAVEMENT DELINEATION**

— Indicates striping and pavement markings to be installed.

— Indicates striping and pavement markings to remain.

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



**PP #32988J**

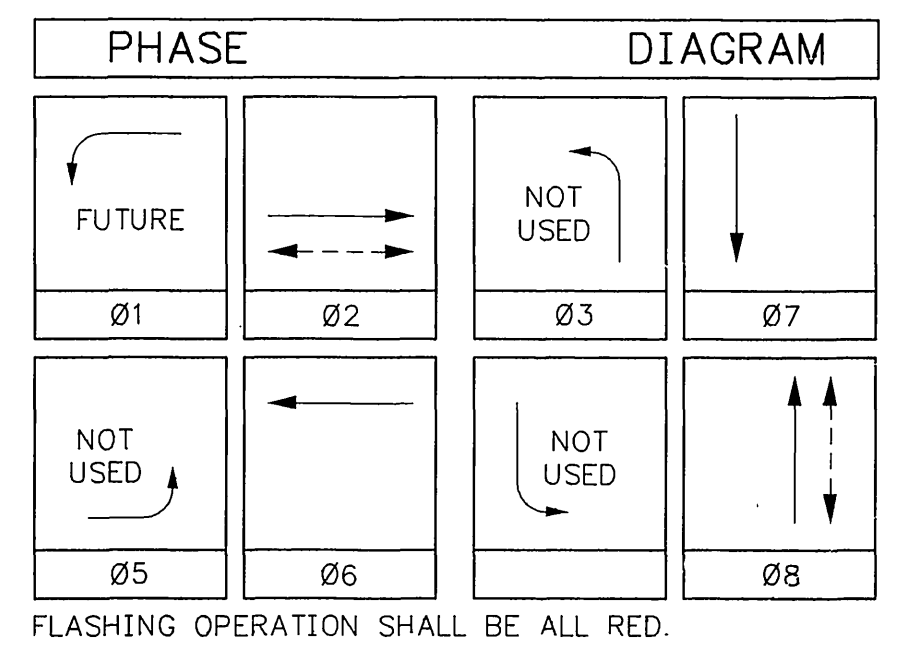
**RISER DETAIL**

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

CONDUCTOR		TABLE							
CONTROL FUNCTION	CONDUCTORS I.M.S.A. SIZE	INSULATION	CONDUIT RUNS						
			1	2	3	4	5	6	7
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12	P.E.	1	1	4	3	2	1	1
DETECTOR CABLE	#16/2	P.E.	-	-	-	-	-	-	-
PHASE 1			-	-	1	1	1	1	1
PHASE 2			-	-	2	2	-	-	-
PHASE 3			-	-	-	-	-	-	-
PHASE 4			-	-	-	-	-	-	-
PHASE 5			-	-	-	-	-	-	-
PHASE 6			-	-	2	2	2	2	2
PHASE 7			-	-	1	1	1	-	-
PHASE 8			-	-	2	2	-	-	-
TOTALS	#16/2	P.E.	-	-	2	8	6	4	3
INTERCONNECT CABLE	#19	P.E.	-	-	-	-	-	-	-
I.I.S.N.S.	#12	T.W.	2	2	-	2	2	-	-
LUMINAIRES	#8	T.H.W.	2	2	-	2	-	-	-
SIGNAL SERVICE	#6	T.W.	-	-	2	-	-	-	-
CONDUIT SIZE			2"	2.5"	2-3"	3.5"	3"	2.5"	2"

**NOTE:**

1.) I.M.S.A. CABLE IS REQUIRED FOR VEHICLE AND PEDESTRIAN SIGNALS AND P.P.B.'S. (SEE SPECIAL PROVISIONS)



DETECTOR SCHEDULE			
CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	6J3U	3	
2	2I2U	3	
3	2I2L	3	(FUTURE)
4	6J2U	3	
5	6J2L	3	
6	7J5U	2	▲
7	8J6U	3	
8	8J6L	3	▲

▲ Delay

**NOTE:** Detectors shall be 2-channel rack-mounted.

POLE		SCHEDULE								
No.	TYPE	HGT.	SIG. M.A.	LUM. M.A.	I.S.N.S. LEGEND	SIGNAL HEAD	SIGNAL MOUNTING	PPB		
							VEHICLE	PED	AUDIBLE	PHASE
(A)	16-2-80	17'	20'		TYLER	1W3C	MAS			
						1W4C	SV-1-T			
(B)	1-A	10'				2W3C	TV-2-T	SP-1-T	((●))	8
(C)	19-2-80	30'	25'	12'	INDIANA AVE 4450	1W3C	MAS			
						1W3C	SV-1-T	SP-1-T	((●))	8
(D)	1-A	10'				1W3C	TV-1-T	SP-1-T	((●))	2
(E)	1-A	10'				2W3C	TV-2-T	SP-1-T	((●))	2
(F)	19-4-80	30'	30'	12'	INDIANA AVE 4450	1W3C	MAS			
						1W3C	SV-2-TB			
						1W4C				

**NOTE:**

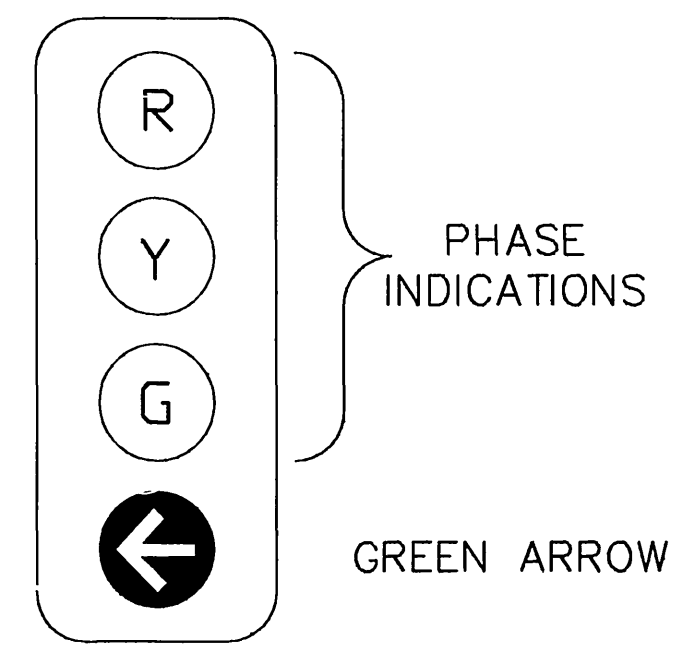
- ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.
- LUMINAIRES SHALL BE HIGH PRESSURE SODIUM VAPOR.
- PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON POLE QUADRANT AS SHOWN.
- ((●)) - INDICATES AUDITORY PEDESTRIAN SIGNAL TO BE INSTALLED (SEE SPECIAL PROVISIONS).
- LOCATION (A) I.S.N.S. LEGEND SHALL BE FRONT SIDE ONLY.

**GENERAL NOTES**

- DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
- ALL SIGNING, STRIPING AND PAVEMENT MARKING REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TURN-ON.
- TYPICAL DETECTOR LOOP SPACING: 10' AND 15'.
- PAVEMENT DELINEATION SHOWN HEREON IS FOR REFERENCE ONLY. CITY FORCES SHALL PERFORM ALL PERMANENT PAINTING (INSTALLATION AND REMOVALS) WORK.
- CITY OF RIVERSIDE TO SET POWER POLES AND SPAN OVERHEAD RAILROAD PRE-EMPT CIRCUIT.

**CONSTRUCTION NOTES**

- INSTALL MODEL 170 CONTROLLER UNIT AND 332 CABINET (SEE SPECIAL PROVISIONS).
- CONTACT PROPERTY OWNER TO DETERMINE RELOCATION POSITION.
- ABANDONED FOUNDATION TO BE COMPLETELY REMOVED.
- CUT A.C. BERM FOR WHEELCHAIR RAMP DEPRESSION AND GRADE AS REQUIRED.
- INSTALL SIGN PER C/R STANDARD DRAWING NUMBER 666.
  - Install W41 and post s/y of Indiana on Tyler (exact location to be determined in the field).
  - Install W41 on street light pole w/y of Tyler on Indiana.



CONTRACTOR LICENSE REQUIREMENT: "A" OR "C"  
FEDERAL AID PROJECT NO. STP-5058(5)



ENGINEER IN RESPONSIBLE CHARGE  
Richard D. McGrath  
R.C.E. No. 31952 expires 12/31/94  
DATE 6/27/93

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY: [Signature]  
DATE: 7/1/93

TRAFFIC SIGNALS  
INDIANA AVENUE AND TYLER STREET  
HORIZ. SCALE: 1" = 20'

ACCT. NO. 430-541600-440125-35032  
X-374  
SHEET 1 OF 1  
FILE NO.