

VICTORIA AVE.

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 WIRE IMSA 3 WIRE IMSA	1	2	3	8	4	3	2	1	
DETECTOR CABLE	#16/2									
PHASE 1		2	2	2	2					
PHASE 2					2	2				
PHASE 3					3	3	3	3		
PHASE 4				2	2					
PHASE 5				2	2					
PHASE 6		2	2	2	2					
PHASE 7				2	2					
PHASE 8				3	3	3	3			
VEHICLE PREEMPTION	#20/4	1	1	1	4	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									
INTERCONNECT	#19				1					1
CONDUIT SIZE		2"	3"	3"	2-3"	3"	3"	3"	2"	1.5"

NOTE: 1. SYSTEM SHALL HAVE ALL NEW CABLE AND CONDUCTORS.  
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON I.M.S.A. CABLE.

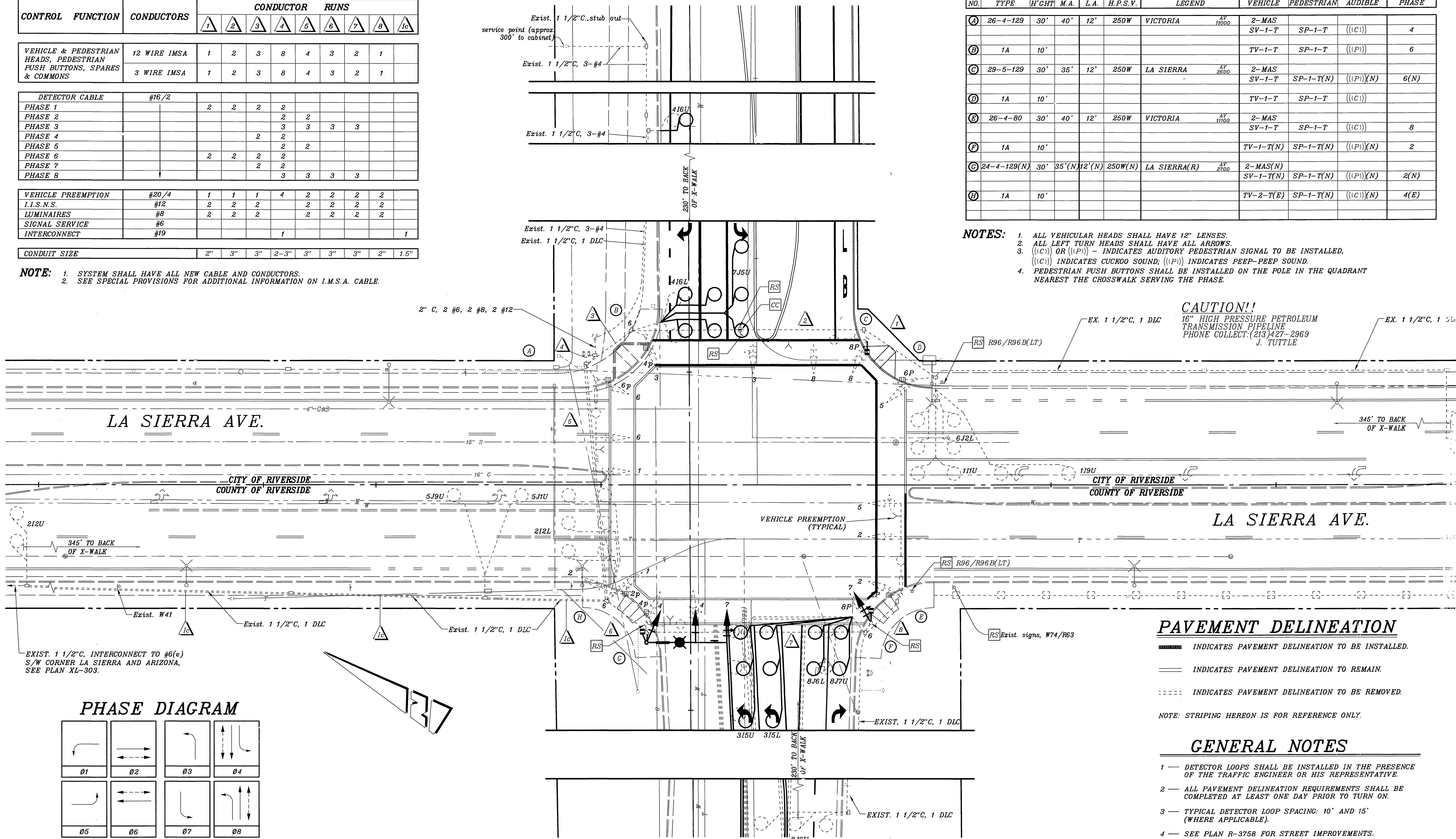
EQUIPMENT SCHEDULE

NO.	SIGNAL STANDARD TYPE	HEIGHT	M.A.	LUMINAIRE		I.I.S.N.S. LEGEND	SIGNAL MOUNTINGS			PPB PHASE	
				L.A.	H.P.S.V.		VEHICLE	PEDESTRIAN	AUDIBLE		
A	26-4-129	30'	40'	12'	250W	VICTORIA	AV 11000	2-MAS SV-1-T	SP-1-T	((C))	4
B	1A	10'						TV-1-T	SP-1-T	((P))	6
C	29-5-129	30'	35'	12'	250W	LA SIERRA	AV 2800	2-MAS SV-1-T	SP-1-T(N)	((P))X(N)	6(N)
D	1A	10'						TV-1-T	SP-1-T	((C))	
E	26-4-80	30'	40'	12'	250W	VICTORIA	AV 11000	2-MAS SV-1-T	SP-1-T	((C))	8
F	1A	10'						TV-1-T(N)	SP-1-T(N)	((P))X(N)	2
G	24-4-129(N)	30'	35'(N)	12'(N)	250W(N)	LA SIERRA(R)	AV 2800	2-MAS(N) SV-1-T(N)	SP-1-T(N)	((P))X(N)	2(N)
H	1A	10'						TV-2-T(E)	SP-1-T(N)	((C))X(N)	4(E)

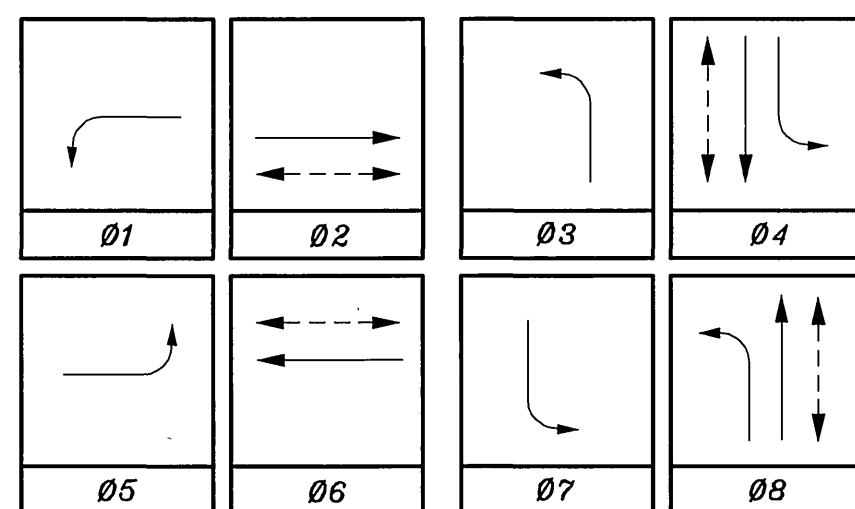
NOTES: 1. ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.  
2. ALL LEFT TURN HEADS SHALL HAVE ALL ARROWS.  
3. ((C)) OR ((P)) - INDICATES AUDITORY PEDESTRIAN SIGNAL TO BE INSTALLED.  
((C)) INDICATES CUCKOO SOUND; ((P)) INDICATES PEEP-PEEP SOUND.  
4. PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.

CAUTION!

16" HIGH PRESSURE PETROLEUM TRANSMISSION PIPELINE  
PHONE COLLECT: (213) 427-2969  
J. TUTTLE



PHASE DIAGRAM



FLASHING OPERATION SHALL BE ALL RED.

PAVEMENT DELINEATION

- INDICATES PAVEMENT DELINEATION TO BE INSTALLED.
- INDICATES PAVEMENT DELINEATION TO REMAIN.
- INDICATES PAVEMENT DELINEATION TO BE REMOVED.

NOTE: STRIPING HEREON IS FOR REFERENCE ONLY.

GENERAL NOTES

- 1 - DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
- 2 - ALL PAVEMENT DELINEATION REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TURN ON.
- 3 - TYPICAL DETECTOR LOOP SPACING: 10' AND 15' (WHERE APPLICABLE).
- 4 - SEE PLAN R-3758 FOR STREET IMPROVEMENTS.
- 5 - SEE PLAN XL-508 FOR PAVEMENT DELINEATION.

**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 issued. For your Dig Alert ID, number call CALL TOLL FREE TWO WORKING DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600

**ENGINEER IN RESPONSIBLE CHARGE**  
THOMAS JOHN BOYD  
R.C.E. No. 36170 expires 6/30/10  
DATE 3/15/06

REGISTERED PROFESSIONAL ENGINEER  
THOMAS JOHN BOYD  
No. 36170  
Exp. 06-30-2006  
CIVIL  
STATE OF CALIFORNIA

MARK REVISIONS APPR. DATE  
DESIGNED BY: MAC DRAWN BY: MAC CHECKED BY:

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY: [Signature] DATE: 3/15/06  
PRINCIPAL ENGINEER  
TRAFFIC DIVISION

TRAFFIC SIGNAL  
LA SIERRA AVENUE AND VICTORIA AVENUE  
SCALE: 1" = 20'

ACCT. NO.  
X-351B  
SHEET 1 OF 1  
FILE NAME: X351B.DWG

**CONDUCTOR TABLE**

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS																			
		1	2	3	4	5	6	7	8	9	10										
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA 3 WIRE IMSA	1	2	2	3	8	4	3	2	1											
DETECTOR CABLE	#16/2																				
PHASE 1		2	2	2	2	2															
PHASE 2							3	3													
PHASE 3							3	3	3	3											
PHASE 4						2	2														
PHASE 5							2	2													
PHASE 6		2	2	2	2	2															
PHASE 7 (FUT.)																					
PHASE 8 (FUT.)																					
VEHICLE PREEMPTION	#20/4	1	1	1	1	4	2	2	2	2											
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																				
INTERCONNECT	#19					1															1

CONDUIT SIZE	2"	2.5"	3"	3"	2-3"	3"	3"	3"	2"	1.5"
	(N)	(N)	(N)	(E)	(E)	(E)	(E)	(E)	(E)	(E)

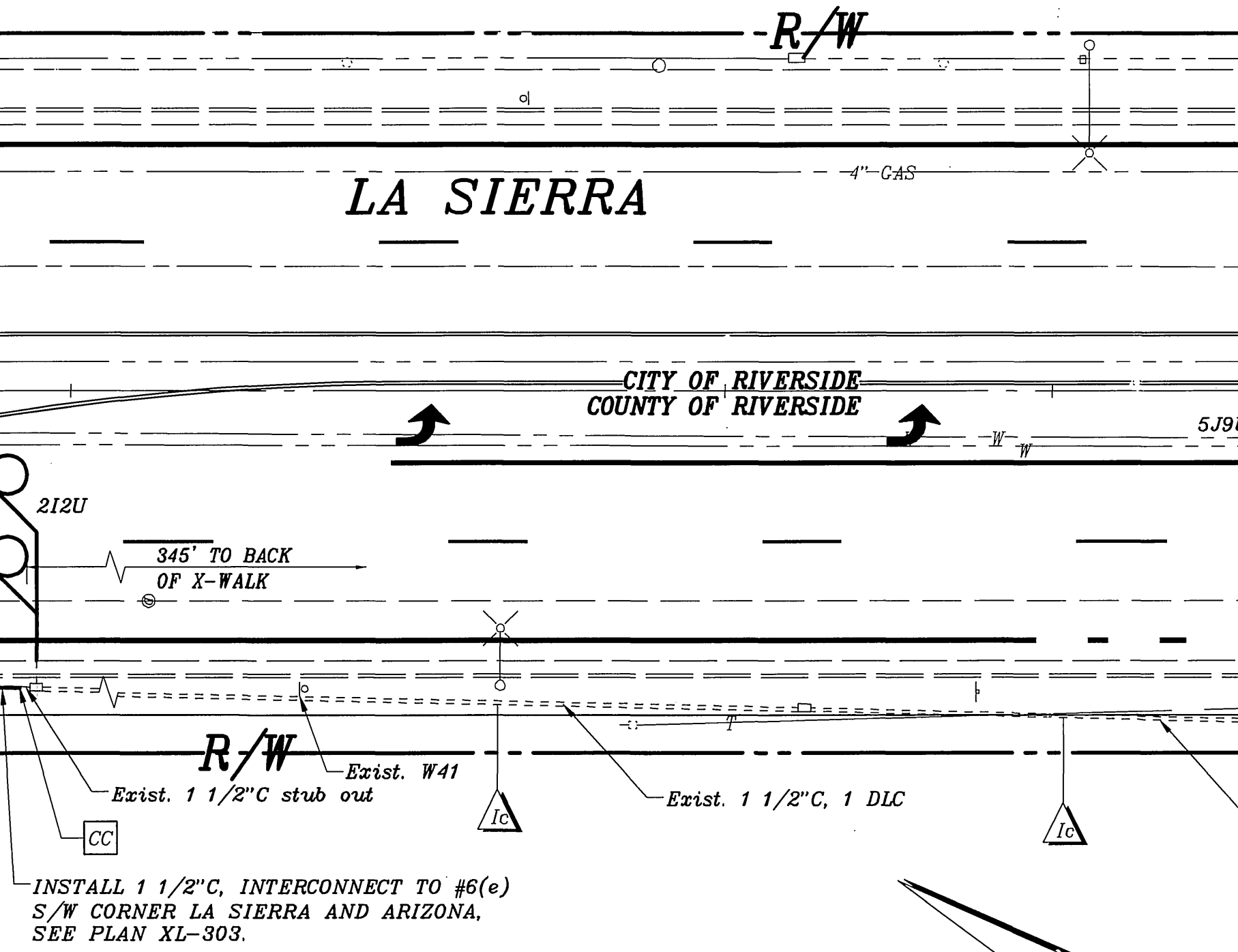
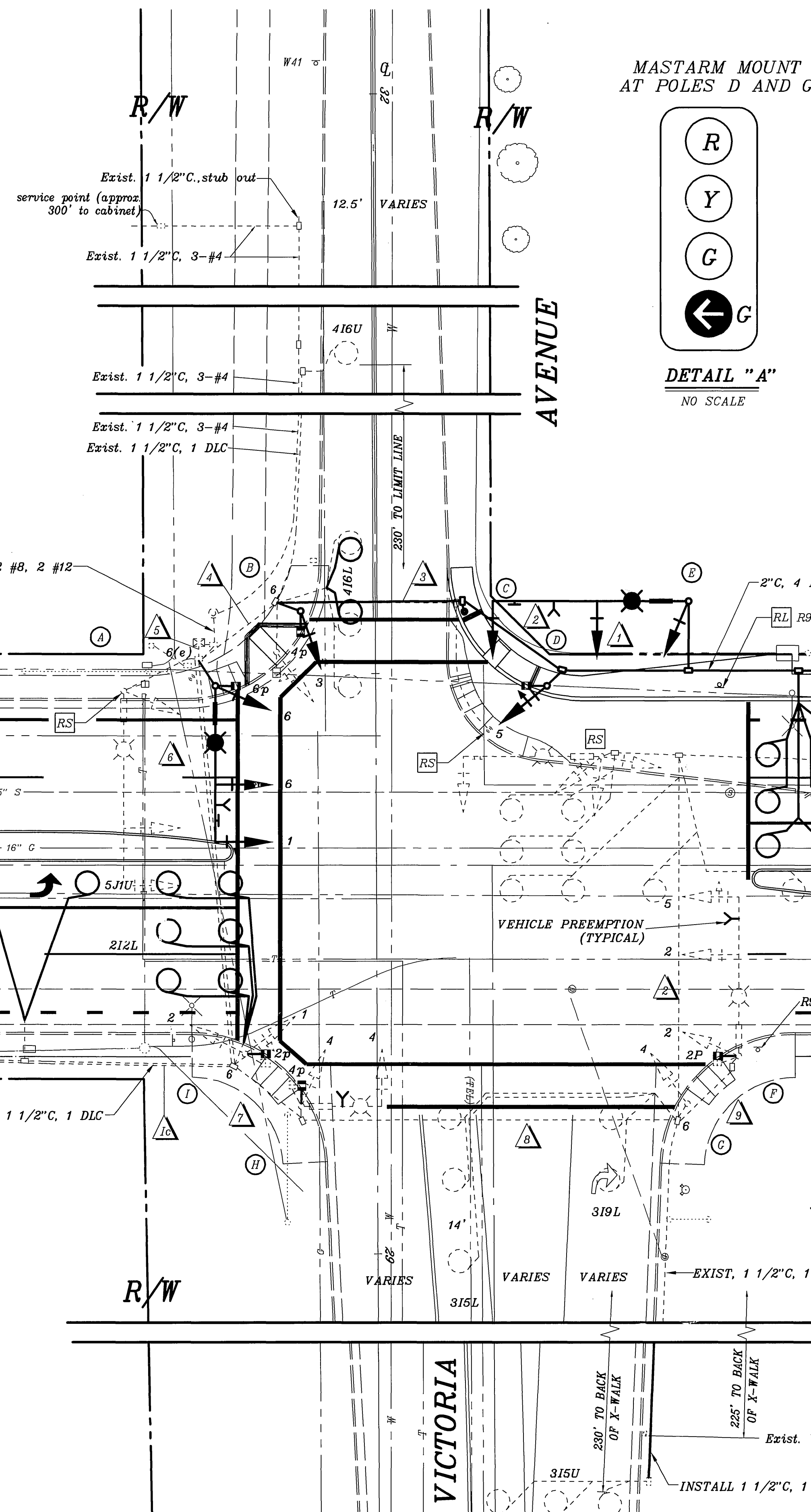
**NOTE:** 1. SYSTEM SHALL HAVE ALL NEW CABLE AND CONDUCTORS.  
 2. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON I.M.S.A. CABLE.  
 3. INTERCONNECT CABLE SHALL BE 6 PAIR #19 GAUGE (SEE SPECIAL PROVISIONS).

**EQUIPMENT SCHEDULE**

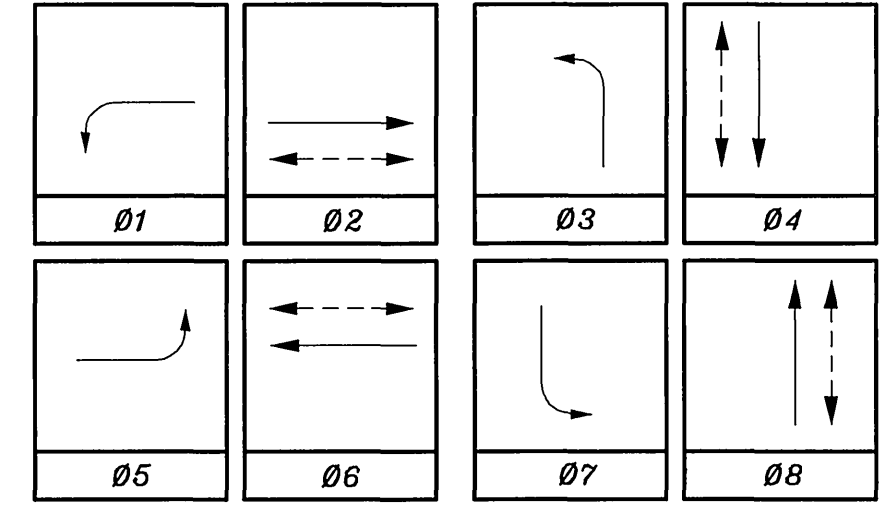
NO.	SIGNAL STANDARD	TYPE	H'GHT	M.A.	LUMINAIRE	I.I.S.N.S.	SIGNAL MOUNTINGS			PPB		
							VEHICLE	PEDESTRIAN	AUDIBLE		PHASE	
(A)	26-4-129(N)	30'	40'(N)	12'(N)	250W(N)	VICTORIA(R)	AV 1000	2-MAS(N)	SV-1-T(N)	SP-1-T(N)	((C))X(N)	4(N)
(B)	PED POST	3'10"										
(C)	1A(N)	10'						TV-1-T(N)	SP-1-T(N)		((P))X(N)	6(N)
(D)	1A(N)	10'						TV-1-T(N)	SP-1-T(N)		((P))X(N)	6(N)
(E)	29-5-129(N)	30'	35'(N)	12'(N)	250W(N)	LA SIERRA(R)	AV 2000	2-MAS(N)	SV-1-T(N)			
(F)	26-4-80(E)	30'	40'(E)	12'(E)	250W(E)	VICTORIA(E)	AV 1000	2-MAS	SV-1-T(E)	SP-1-T(N)	((C))X(N)	8(E)
(G)	1A(E)	10'						TV-1-T(E)				2(E)
(H)	17-2-80(E)	30'	18'(E)	12'(E)	250W(E)	LA SIERRA(E)	AV 2000	MAS(E)	SV-1-T(E)	SP-1-T(N)	((P))X(N)	2(E)
(I)	1A(E)	10'						TV-2-T(E)	SP-1-T(N)		((C))X(N)	4(E)

**NOTES:** 1. ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.  
 2. ALL LEFT TURN HEADS SHALL HAVE ALL ARROWS.  
 3. ((C)) OR ((P)) - INDICATES AUDITORY PEDESTRIAN SIGNAL TO BE INSTALLED.  
 ((C)) INDICATES CUCKOO SOUND; ((P)) INDICATES PEEP-PEEP SOUND.  
 4. PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.

**CAUTION!**  
 16" HIGH PRESSURE PETROLEUM TRANSMISSION PIPELINE  
 PHONE COLLECT: (213) 427-2969  
 J. TUTTLE



**PHASE DIAGRAM**



**PAVEMENT DELINEATION**

- INDICATES PAVEMENT DELINEATION TO BE INSTALLED.
- INDICATES PAVEMENT DELINEATION TO REMAIN.
- INDICATES PAVEMENT DELINEATION TO BE REMOVED.

**GENERAL NOTES**

- DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
- ALL PAVEMENT DELINEATION REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TURN ON.
- TYPICAL DETECTOR LOOP SPACING: 10' AND 15' (WHERE APPLICABLE).
- SEE PLAN R-3739 FOR STREET IMPROVEMENTS.
- SEE PLAN XL-303 FOR PAVEMENT DELINEATION.

**IMPORTANT NOTICE**  
 Section 4216/4217 of the Government Code  
 Requires a Dig Alert Identification  
 Number to be issued before a  
 "Hurry to Excavate" will be issued.  
 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**  
 THOMAS JOHN BOYD  
 R.C.E. No. 36170 expires 6/30/06  
 DATE 7/2/05

**REGISTERED PROFESSIONAL ENGINEER**  
 THOMAS JOHN BOYD  
 No. 36170  
 Exp. 06-30-2006  
 CIVIL  
 STATE OF CALIFORNIA

**CITY OF RIVERSIDE, CALIFORNIA**  
**DEPARTMENT OF PUBLIC WORKS**

APPROVED BY: [Signature] DATE: 7/1/05  
 PRINCIPAL ENGINEER  
 TRAFFIC DIVISION

DESIGNED BY: MAC DRAWN BY: MAC CHECKED BY: [Signature]

**TRAFFIC SIGNAL**  
**LA SIERRA AVENUE AND VICTORIA AVENUE**

ACCT. NO. X-351A  
 SHEET 1 OF 1  
 FILE NAME: X351A.DWG

SCALE: 1" = 20'

CONDUCTOR		TABLE									
CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS									
		1	2	3	4	5	6	7	8	9	10
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA 9 WIRE IMSA 5 WIRE IMSA 3 WIRE IMSA	1	1	1	1	2	3	4	2	1	1
DETECTOR CABLE	#16/2										
PHASE 1		1	1	1	1	1	1	1	1	1	1
PHASE 2						2	2				
PHASE 4								2	2		
PHASE 5								1	1		
PHASE 6		2		2	2	2	2				
PHASE 8				3	3	3	3				
TOTALS	#16/2	3	6	6	9	11	2				
I.I.S.N.S.	#12	2	2	2	2	2	2				
LUMINAIRES	#8	2	2	2	2	2	2				
SIGNAL SERVICE	#6						2				
CONDUIT SIZE		2"	3"	2"	3"	3"	3"	2-3"	3"	3"	2.5"

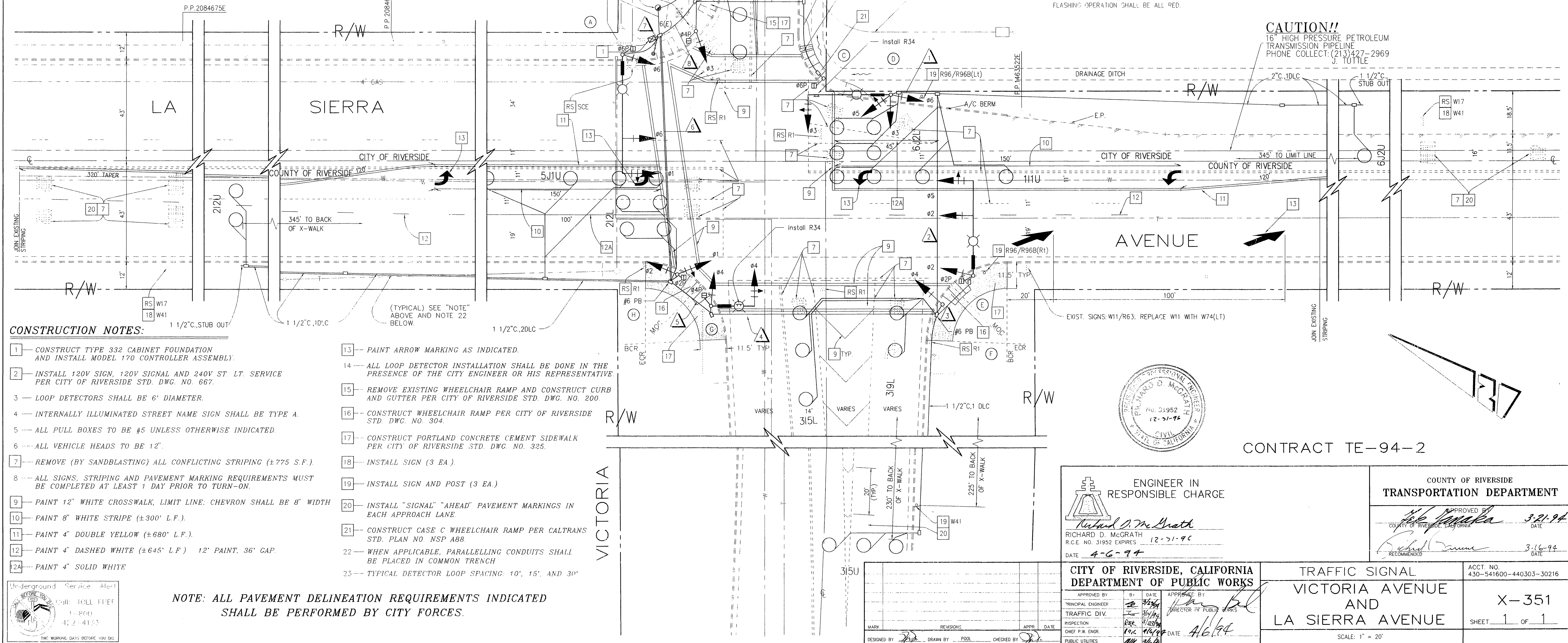
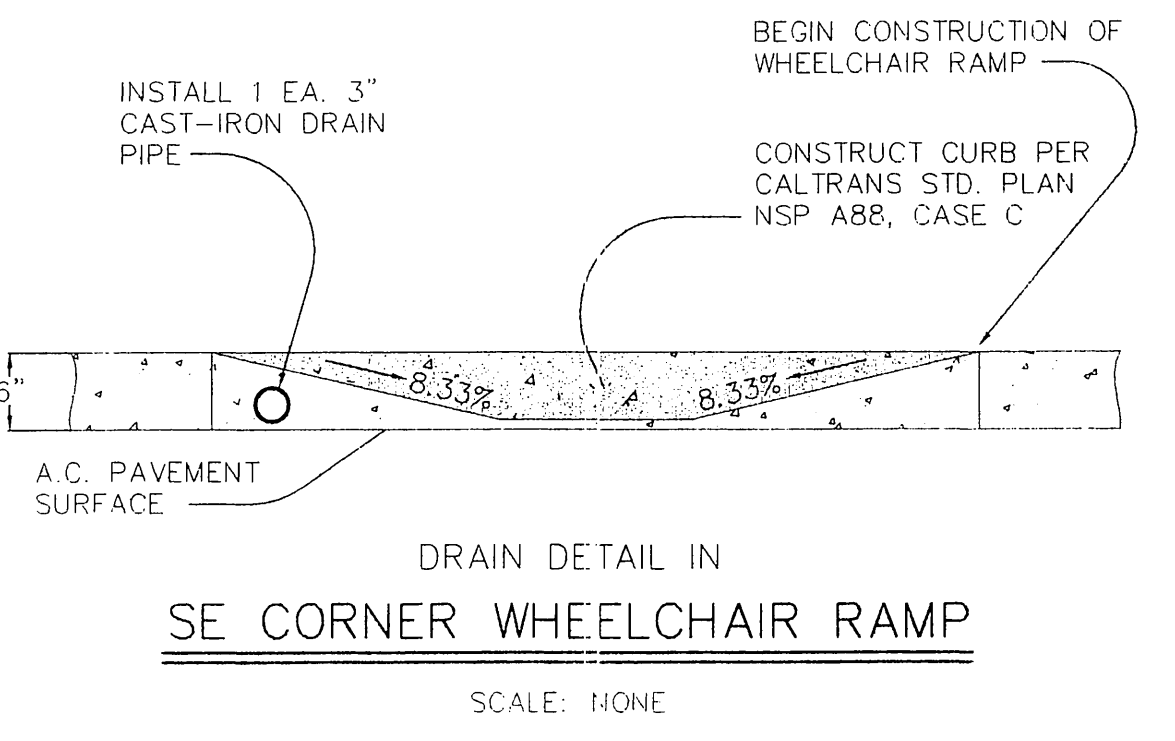
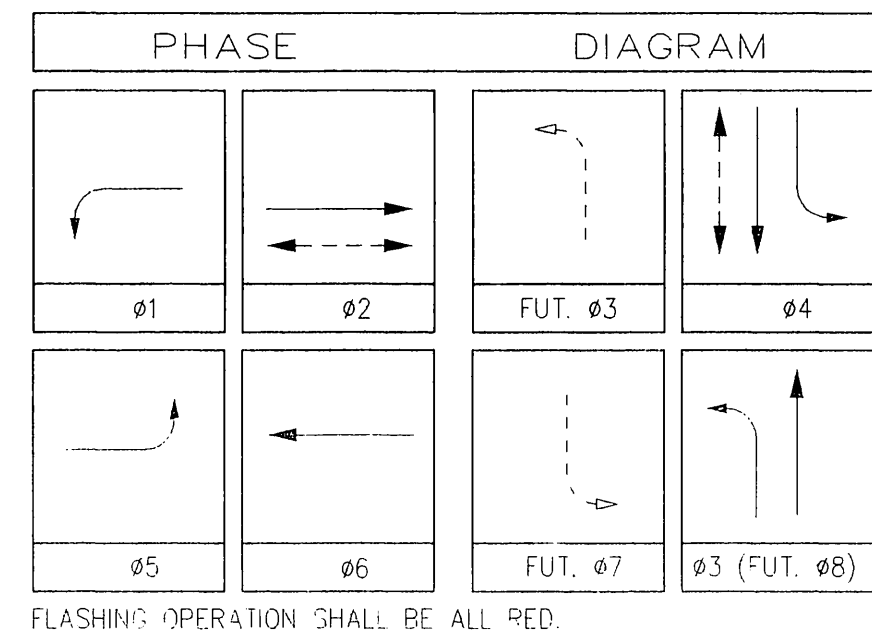
DETECTOR ASSIGNMENT			
CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	212U	2	● ●
2	212L	4	
1	5J1U	4	
2	6J2U	1	● ●
1	6J2L	4	
2	111U	4	
1	416U	1	● ●
2	416L	3	
1	315U	2	● ●
2	315L	3	
1	319L	3	
2	SPARE		
1	SPARE		
2	SPARE		

**NOTE:**  
CONTRACTOR SHALL INSTALL 1 1/2" CONDUIT WITH PULLROPE FOR INTERCONNECT; CONDUIT PARALLELS RUNS 6, 7, AND 212U ADVANCE DETECTOR RUN.

1. DETECTORS SHALL BE 2-CHANNEL RACK-MOUNTED.  
 ▲ = DELAY.  
 ■ = CALL-HOLD (EXTENSION).  
 ● = FOR SAMPLING

POLE SCHEDULE														
No.	TYPE	STANDARD			LUMINAIRE HPS	I.S.N.S. LEGEND	SIGNAL MOUNTING			PPB PHASE	PLACEMENT		REMARKS	
		HGT.	SIG. M.A.	LUM. M.A.			SIGNAL	PED	A		B			
(A)	29-5-80	30'	50'	12'	250W	Victoria	Av 11000	MAS	MAS	SV-1-T	SP-1-T	#4	☆ ☆	F=15'
(B)	1-A	10'								TV-1-T	SP-1-T	#6	☆ ☆	
(C)	1-A	7'								TP-1-T	SP-1-T	#6	☆ ☆	
(D)	24-4-80	30'	35'	12'	250W	La Sierra	Av 2600	MAS	MAS	SV-3-TB			☆ ☆	
(E)	26-4-80	30'	40'	12'	250W	Victoria	Av 11000	MAS	MAS	SV-1-T	SP-1-T		☆ ☆	F=15'
(F)	1-A	10'								TV-1-T			☆ ☆	
(G)	17-2-80	30'	18'	12'	250W	La Sierra	Av 2700	MAS	MAS	SV-1-T	SP-1-T	#2	☆ ☆	
(H)	1-A	10'								TV-2-T	SP-1-T	#4	☆ ☆	
(I)	PED POST	3'10"										#2	☆ ☆	

LUMINAIRES SHALL BE HIGH PRESSURE SODIUM VAPOR.  
 I.S.N.S. = INTERNALLY ILLUMINATED STREET NAME SIGN  
 ALL 1-A POLES SHALL BE ALUMINUM.  
 ☆ = PLACEMENT TO BE DETERMINED BY ENGINEER IN THE FIELD



- CONSTRUCTION NOTES:**
- CONSTRUCT TYPE 332 CABINET FOUNDATION AND INSTALL MODEL 170 CONTROLLER ASSEMBLY.
  - INSTALL 120V SIGN, 120V SIGNAL AND 240V ST. LT. SERVICE PER CITY OF RIVERSIDE STD. D.W.G. NO. 667.
  - LOOP DETECTORS SHALL BE 6" DIAMETER.
  - INTERNALLY ILLUMINATED STREET NAME SIGN SHALL BE TYPE A.
  - ALL PULL BOXES TO BE #5 UNLESS OTHERWISE INDICATED.
  - ALL VEHICLE HEADS TO BE 12".
  - REMOVE (BY SANDBLASTING) ALL CONFLICTING STRIPING (±775 S.F.).
  - ALL SIGNS, STRIPING AND PAVEMENT MARKING REQUIREMENTS MUST BE COMPLETED AT LEAST 1 DAY PRIOR TO TURN-ON.
  - PAINT 12" WHITE CROSSWALK, LIMIT LINE; CHEVRON SHALL BE 8" WIDTH
  - PAINT 8" WHITE STRIPE (±300' L.F.).
  - PAINT 4" DOUBLE YELLOW (±680' L.F.).
  - PAINT 4" DASHED WHITE (±645' L.F.) 12" PAINT, 36" GAP.
  - PAINT 4" SOLID WHITE
  - PAINT ARROW MARKING AS INDICATED.
  - ALL LOOP DETECTOR INSTALLATION SHALL BE DONE IN THE PRESENCE OF THE CITY ENGINEER OR HIS REPRESENTATIVE
  - REMOVE EXISTING WHEELCHAIR RAMP AND CONSTRUCT CURB AND CUTTER PER CITY OF RIVERSIDE STD. D.W.G. NO. 200.
  - CONSTRUCT WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. D.W.G. NO. 304.
  - CONSTRUCT PORTLAND CONCRETE CEMENT SIDEWALK PER CITY OF RIVERSIDE STD. D.W.G. NO. 325.
  - INSTALL SIGN (3 EA.)
  - INSTALL SIGN AND POST (3 EA.)
  - INSTALL "SIGNAL" "AHEAD" PAVEMENT MARKINGS IN EACH APPROACH LANE.
  - CONSTRUCT CASE C WHEELCHAIR RAMP PER CALTRANS STD. PLAN NO. NSP A88
  - WHEN APPLICABLE, PARALLELLING CONDUITS SHALL BE PLACED IN COMMON TRENCH
  - TYPICAL DETECTOR LOOP SPACING: 10', 15', AND 30'

**NOTE: ALL PAVEMENT DELINEATION REQUIREMENTS INDICATED SHALL BE PERFORMED BY CITY FORCES.**



**ENGINEER IN RESPONSIBLE CHARGE**  
 Richard D. McGrath  
 RICHARD D. McGRATH  
 R.C.E. NO. 31952 EXPIRES 12-31-96  
 DATE 4-6-94

**CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS**

**TRAFFIC SIGNAL VICTORIA AVENUE AND LA SIERRA AVENUE**

ACCT. NO. 430-541600-440303-30216  
 X-351  
 SHEET 1 OF 1  
 SCALE: 1" = 20'