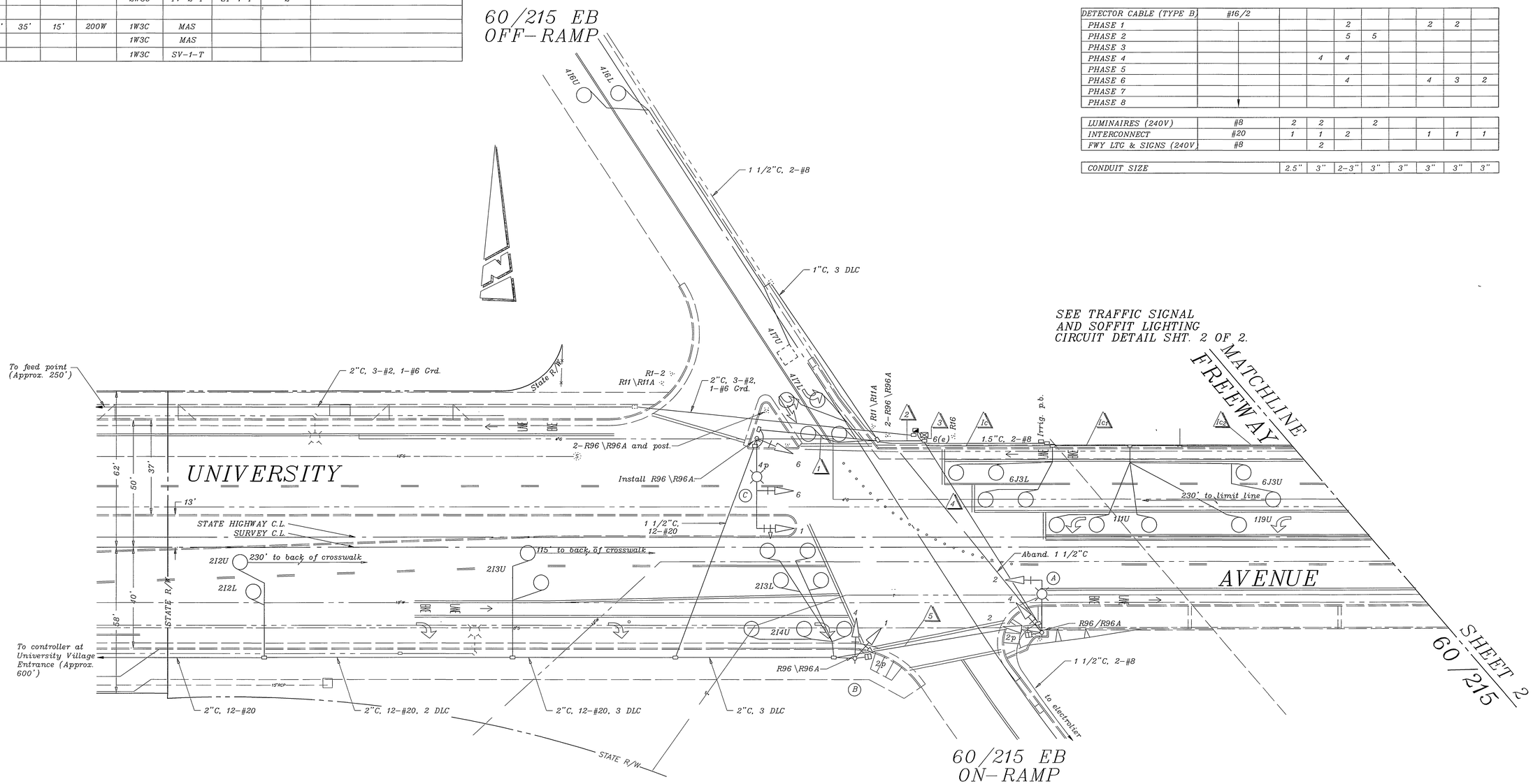
POLE SCHEDULE

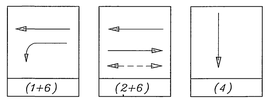
No.	STANDARD TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUM. HPSV	SIGNAL HEAD	SIGNAL MOUNTING VEHICLE	SIGNAL MOUNTING PED	PPB PHASE	REMARKS
(A)	17A	35'	20'	15'	200W	1W3C	MAS			
						1W3C	SV-1-T	SP-1-T	2	
(B)	1A	10'				2W3C	TV-2-T	SP-1-T	2	
(C)	24A	35'	35'	15'	200W	1W3C	MAS			
						1W3C	MAS			
						1W3C	SV-1-T			

CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS 1	2	3	4	5	1c	1c1	1c2
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA	1	1	3	2	1			
	5 WIRE IMSA								
	3 WIRE IMSA			2	2	1			
DETECTOR CABLE (TYPE B)	#16/2								
PHASE 1				2			2	2	
PHASE 2				5	5				
PHASE 3									
PHASE 4			4	4					
PHASE 5									
PHASE 6				4			4	3	2
PHASE 7									
PHASE 8									
LUMINAIRES (240V)	#8	2	2		2				
INTERCONNECT	#20	1	1	2			1	1	1
FWY LTG & SIGNS (240V)	#8		2						
CONDUIT SIZE		2.5"	3"	2-3"	3"	3"	3"	3"	3"



PHASE DIAGRAM



REF: See Plan R-3447

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 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 expires
DATE

REGISTERED PROFESSIONAL ENGINEER RICHARD D. McGRATH No. 31952 Exp. 12-31-2000 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR	DATE
	As-built per St. Impr. R-3447	MAC	1/99

DESIGNED BY MAC DRAWN BY MAC CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
P.W. INSPECTION		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		
PUBLIC UTILITIES		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE

TRAFFIC SIGNAL
UNIVERSITY AVE. @ 60/215 FWY
SCALE: 1" = 20'

ACCT. NO.
X-291
SHEET 1 OF 2
FILE NAME: X291-1a.DWG

POLE SCHEDULE

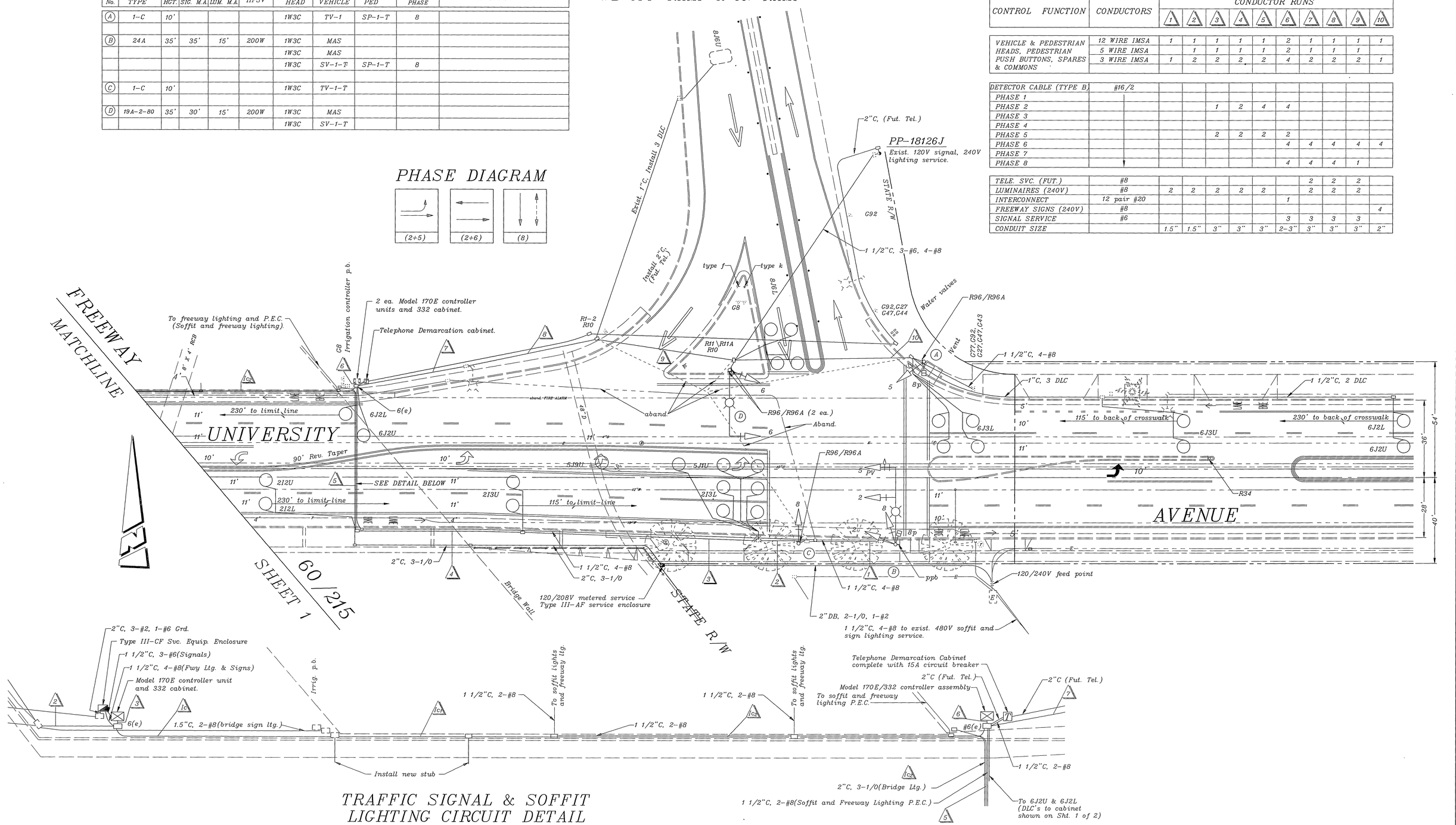
No.	STANDARD TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUM. HPSV	SIGNAL HEAD	SIGNAL MOUNTING VEHICLE	SIGNAL MOUNTING PED	PPB PHASE	REMARKS
(A)	1-C	10'				1W3C	TV-1	SP-1-T	8	
(B)	24A	35'	35'	15'	200W	1W3C	MAS			
						1W3C	MAS			
						1W3C	SV-1-T	SP-1-T	8	
(C)	1-C	10'				1W3C	TV-1-T			
(D)	19A-2-80	35'	30'	15'	200W	1W3C	MAS			
						1W3C	SV-1-T			

FWY 60/215
WB OFF-RAMP & ON-RAMP

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	1	1	1	1	1	2	1	1	1	1
	5 WIRE IMSA		1	1	1	1	2	1	1	1	
	3 WIRE IMSA	1	2	2	2	2	4	2	2	2	1
DETECTOR CABLE (TYPE B)	#16/2										
PHASE 1											
PHASE 2				1	2	4	4				
PHASE 3											
PHASE 4											
PHASE 5				2	2	2	2				
PHASE 6							4	4	4	4	4
PHASE 7											
PHASE 8							4	4	4	1	
TELE. SVC. (FUT.)	#8							2	2	2	
LUMINAIRES (240V)	#8	2	2	2	2	2		2	2	2	
INTERCONNECT	12 pair #20						1				
FREEWAY SIGNS (240V)	#8										4
SIGNAL SERVICE	#6						3	3	3	3	
CONDUIT SIZE		1.5"	1.5"	3"	3"	3"	2-3"	3"	3"	3"	2"

PHASE DIAGRAM



TRAFFIC SIGNAL & SOFFIT LIGHTING CIRCUIT DETAIL

See Plans R-3447 for street improvements.

IMPORTANT NOTICE
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ENGINEER IN RESPONSIBLE CHARGE
RICHARD D. McGRATH
R.C.E. No. 31952 expires
DATE

REGISTERED PROFESSIONAL ENGINEER RICHARD D. McGRATH No. 31952 Exp 12-31-2000 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
	As-built per St. Impr. R-3447	MAC	1/99

DESIGNED BY MAC DRAWN BY MAC CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
P.W. INSPECTION		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		
PUBLIC UTILITIES		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE

TRAFFIC SIGNAL
UNIVERSITY AVE. @ S.R.-60/I-215 FWY
SCALE: 1" = 20'

ACCT. NO. 0476-528160-440440-90192
X-291
SHEET 2 OF 2
FILE NAME: X291-2A.DWG

POLE SCHEDULE

	STANDARD				LUM.	SIGNAL	SIGNAL MOUNTING		PPB	REMARKS
No.	TYPE	HGT.	SIG. M.A.	LUM. M.A.	HPSV	HEAD	VEHICLE	PED	PHASE	
(A)	17A(E)	35'	20'(E)	15'(E)	200W(E)	1W3C(E)	MAS(E)			
						1W3C(E)	SV-1-T(E)	SP-1-T(N)	2(N)	
(B)	1A(R)	10'				2W3C(E)	TV-2-T(E)	SP-1-T(N)	2(N)	Modify framework to TV-2-T.
										Remove & Salvage Phase 4 PPB.
(C)	24A(E)	35'	35'(E)	15'(E)	200W(E)	1W3C(E)	MAS(E)			
						1W3C(E)	MAS(E)			
						1W3C(E)	SV-1-T(E)			Remove & Salvage Phase 4 PPB.

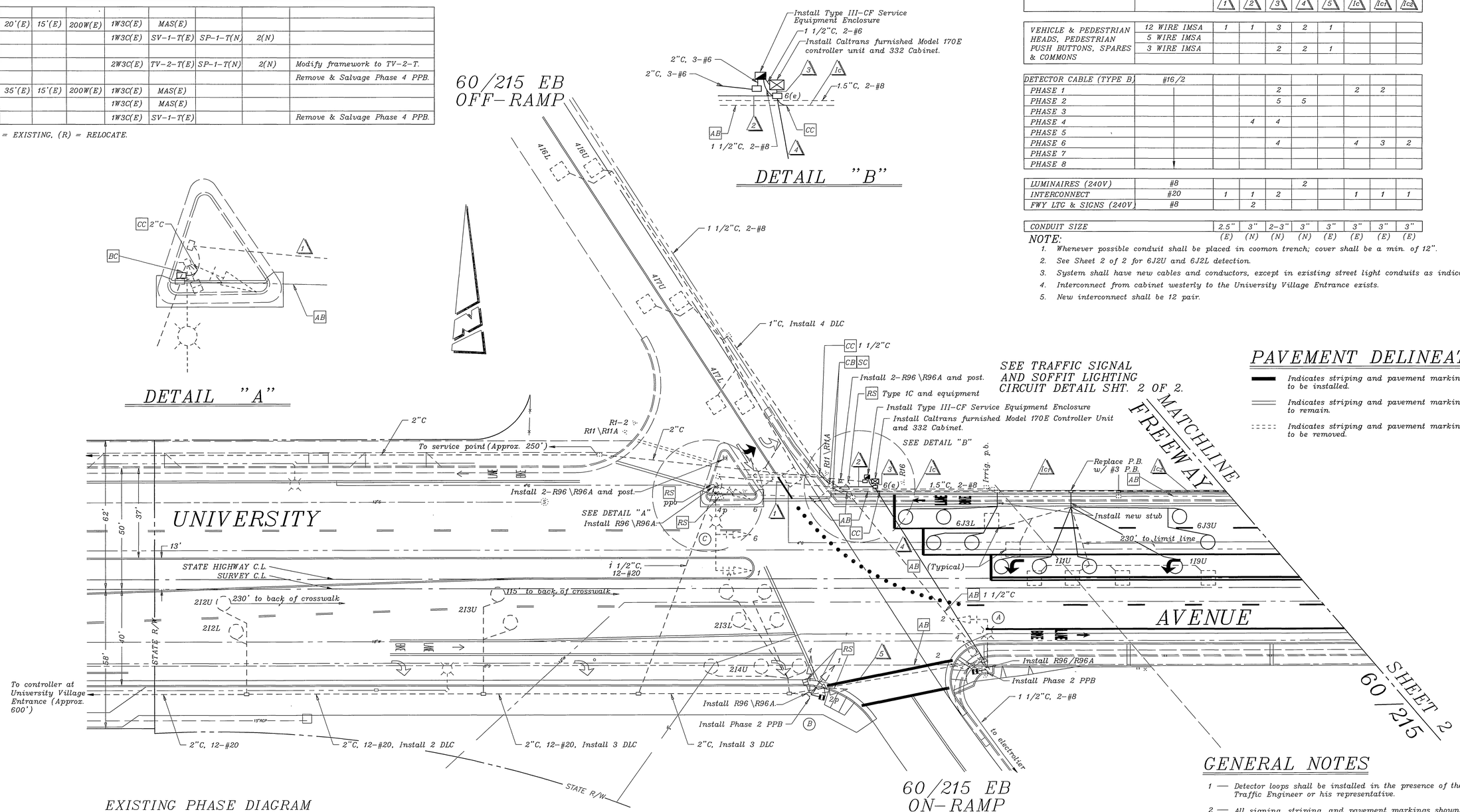
1. (N) = NEW, (E) = EXISTING, (R) = RELOCATE.

CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS 1	2	3	4	5	1c	1c1	1c2
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA	1	1	3	2	1			
	5 WIRE IMSA								
	3 WIRE IMSA			2	2	1			
DETECTOR CABLE (TYPE B)	#16/2								
PHASE 1				2			2	2	
PHASE 2				5	5				
PHASE 3									
PHASE 4			4	4					
PHASE 5									
PHASE 6				4			4	3	2
PHASE 7									
PHASE 8									
LUMINAIRES (240V)	#8				2				
INTERCONNECT	#20	1	1	2			1	1	1
FWY LTG & SIGNS (240V)	#8		2						
CONDUIT SIZE		2.5" (E)	3" (N)	2-3" (N)	3" (N)	3" (E)	3" (E)	3" (E)	3" (E)

NOTE:

1. Whenever possible conduit shall be placed in coomon trench; cover shall be a min. of 12".
2. See Sheet 2 of 2 for 6J2U and 6J2L detection.
3. System shall have new cables and conductors, except in existing street light conduits as indicated.
4. Interconnect from cabinet westerly to the University Village Entrance exists.
5. New interconnect shall be 12 pair.



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.

GENERAL NOTES

1 — Detector loops shall be installed in the presence of the Traffic Engineer or his representative.

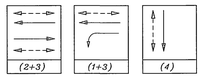
2 — All signing, striping, and pavement markings shown hereon are for reference only. See Plan XL-374, 374A and 374B for pavement delineation and signs.

3 — Typical detector loop spacing: 10', 15', and 30'(If applicable).

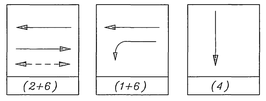
4 — See Plans R-3447 for street improvements and bridge lighting.

5 — City of Riverside Public Utilities will install service cable to meter.

EXISTING PHASE DIAGRAM



PROPOSED PHASE DIAGRAM



ENCROACHMENT PERMIT NO. 08-97-N-MC-0184

IMPORTANT NOTICE
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UNDERGROUND SERVICE ALERT
1-800-227-2600

ENGINEER IN RESPONSIBLE CHARGE
Richard D. McGrath
RICHARD D. McGRATH
R.C.E. No. 31952 expires 12-31-2000
DATE 4-2-97

REGISTERED PROFESSIONAL ENGINEER RICHARD D. McGRATH No. 31952 Exp. 12-31-2000 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR	DATE

DESIGNED BY ____ DRAWN BY MAC CHECKED BY ____

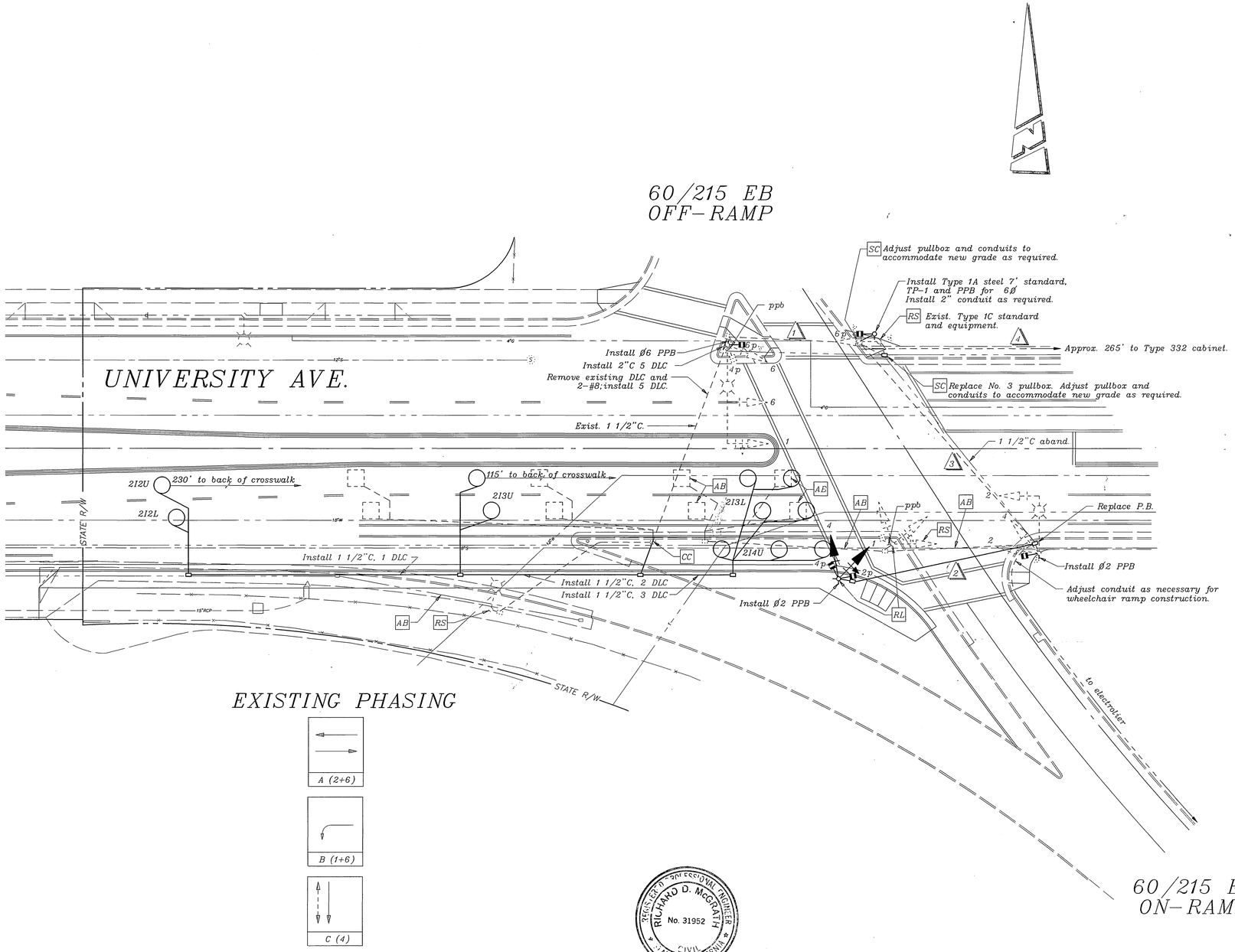
CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
P.W. INSPECTION		
TRAFFIC DIVISION		4/4/97
CHIEF P.W. ENGR.		
PUBLIC UTILITIES		4/4/97

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 4/4/97

TRAFFIC SIGNAL MODIFICATION
UNIVERSITY AVE. @ 60/215 FWY
SCALE: 1" = 20'

ACCT. NO. 0432-541500-440302-30316
X-291
SHEET 1 OF 2
FILE NAME: X291-1.DWG



EXISTING PHASING

NOTE:
Letters indicate previous phase designation.

GENERAL NOTES

1 — Detector loops shall be installed in the presence of the Traffic Engineer or his representative.

2 — All signing, striping, and pavement markings shown hereon are for reference only. See Plan XL-341 for pavement delineation and signs.

3 — Typical detector loop spacing: 10', 15', and 30' (where applicable).

CONSTRUCTION NOTES

1 — Existing conductors shall be reused unless otherwise indicated.

2 — Pedestrian Push Buttons shall be installed on all poles, in the quadrant nearest the crosswalk serving the phase.

SC Splice-point for exist. and new cable and conductors except additions. (See 4 below)

1 Install 3-#14 (6 PPB and Ped. Signal) and 5 DLC in existing 2 1/2" conduit.

2 Install 2" C with cables and conductors as follows:

3-#14 - Phase 1
2-#14 - Phase 2p
1-#14 - Phase 2 PPB
3-#14 - Phase 4
2-#14 - Phase 4p
1-#14 - Phase 4 ppb
3-#14 - Spares
1-#14 - 12V common
1-#10 - 120V common

3 Install new cables and conductors in existing conduit as follows;

3-#14 - Phase 1
3-#14 - Phase 2
2-#14 - Phase 2p
1-#14 - Phase 2 PPB
3-#14 - Phase 4
2-#14 - Phase 4p
1-#14 - Phase 4 ppb
3-#14 - Spares
1-#14 - 12V common
1-#10 - 120V common
2-#10 - Street Light

4 Install new cables, conductors and 5 DLC to Type 332 cabinet as follows; approximate distance 265'.

2-#14 - Phase 2p
1-#14 - Phase 2 PPB
2-#14 - Phase 6p
1-#14 - Phase 6 ppb
5 DLC (Phase 2 detection)

REGISTERED PROFESSIONAL ENGINEER RICHARD D. McGRATH No. 31952 CIVIL STATE OF CALIFORNIA

ENCROACHMENT PERMIT NO. 08-95-N-MC-0240

ENGINEER IN RESPONSIBLE CHARGE
Richard D. McGrath
RICHARD D. McGRATH
R.C.E. No. 31952 expires 12-31-96
DATE 6-30-95

MARK	REVISIONS	APPR.	DATE

DESIGNED BY [illegible] DRAWN BY MAC CHECKED BY [illegible]

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	[illegible]	6/6/95
P.W. INSPECTION	RPE	6-1-95
TRAFFIC DIVISION	[illegible]	5/24/95
CHIEF P.W. ENGR.		
PUBLIC UTILITIES	[illegible]	5/24/95

APPROVED BY [illegible]
DIRECTOR OF PUBLIC WORKS
DATE 7-3-95

TRAFFIC SIGNAL MODIFICATION
UNIVERSITY AVE. @ 60/215 FWY
SCALE: 1" = 20'

ACCT. NO. 0432-541500-440302-30316
X-291
SHEET 1 OF 1
FILE NAME: X291.DWG

POLE SCHEDULE

No.	STANDARD TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUM. HPSV	SIGNAL HEAD	SIGNAL MOUNTING VEHICLE	PED	PPB PHASE	REMARKS
(A)	1-C(E)	10'				1W3C(E)	TV-1(E)	SP-1-T(N)	8(N)	
(B)	24A(E)	35'	35'(E)	15'(E)	200W(E)	1W3C(E)	MAS(E)			
						1W3C(E)	MAS(E)			
						1W3C(E)	SV-1-T(E)	SP-1-T(N)	8(N)	
(C)	1-C(E)	10'				1W3C(E)	TV-1-T(E)			
(D)	19A-2-80(N)	35'	25'(N)	15'(N)	200W(R)	1W3C(R)	MAS(R)			
						1W3C(R)	SV-1-T(R)			

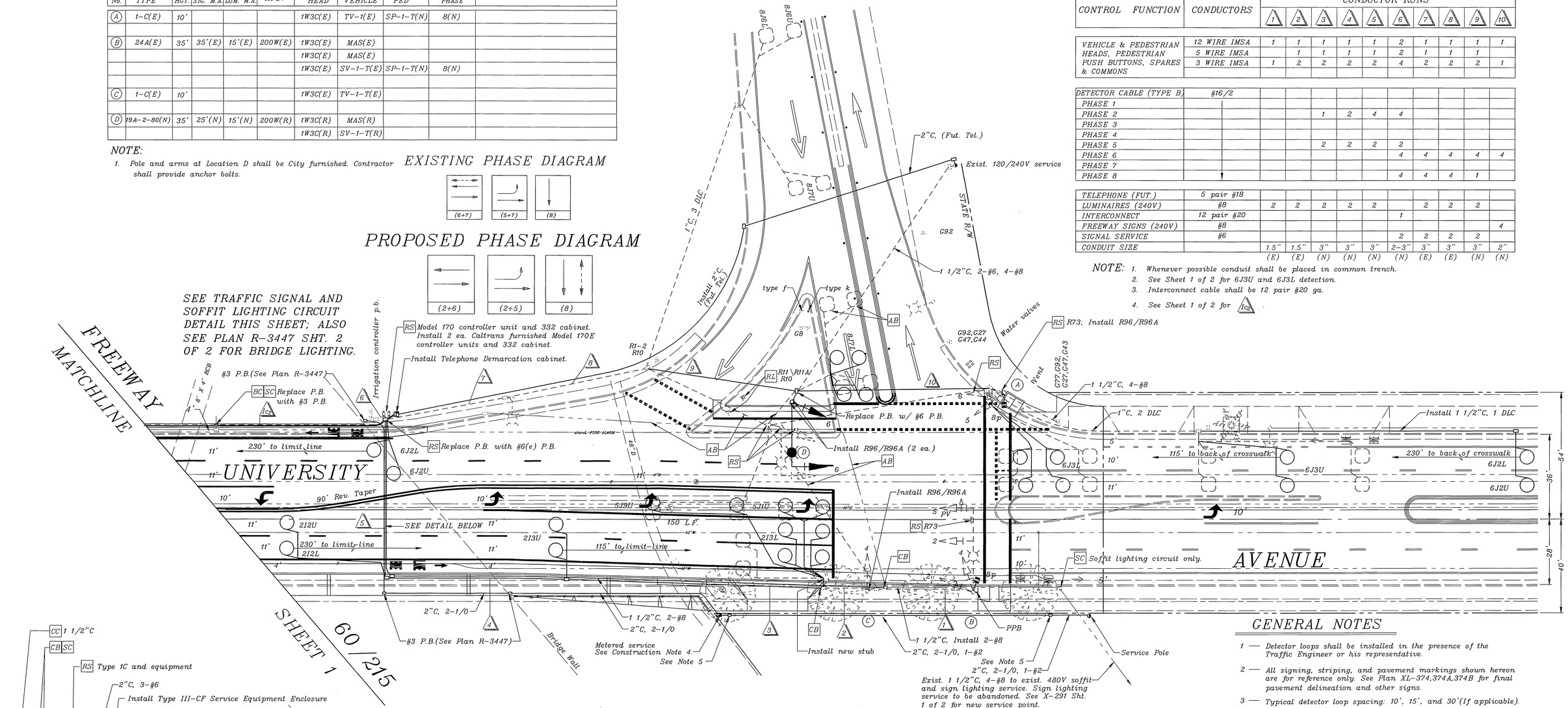
NOTE:

1. Pole and arms at Location D shall be City furnished. Contractor shall provide anchor bolts.

EXISTING PHASE DIAGRAM

PROPOSED PHASE DIAGRAM

FWY 60/215
WB OFF-RAMP & ON-RAMP



TRAFFIC SIGNAL & SOFFIT LIGHTING CIRCUIT DETAIL

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	1	1	1	1	1	2	1	1	1	1
	5 WIRE IMSA		1	1	1	1	2	1	1	1	
	3 WIRE IMSA	1	2	2	2	2	4	2	2	2	1
DETECTOR CABLE (TYPE B)	#16/2										
PHASE 1											
PHASE 2				1	2	4	4				
PHASE 3											
PHASE 4											
PHASE 5				2	2	2	2				
PHASE 6							4	4	4	4	4
PHASE 7											
PHASE 8							4	4	4	1	
TELEPHONE (FUT.)	5 pair #18										
LUMINAIRES (240V)	#8	2	2	2	2	2		2	2	2	
INTERCONNECT	12 pair #20						1				
FREEWAY SIGNS (240V)	#8										4
SIGNAL SERVICE	#6						2	2	2	2	
CONDUIT SIZE		1.5" (E)	1.5" (E)	3" (N)	3" (N)	3" (N)	2-3" (N)	3" (E)	3" (E)	3" (N)	2" (N)

NOTE:

1. Whenever possible conduit shall be placed in common trench.
2. See Sheet 1 of 2 for 6J3U and 6J3L detection.
3. Interconnect cable shall be 12 pair #20 ga.
4. See Sheet 1 of 2 for 1C2.

GENERAL NOTES

1 — Detector loops shall be installed in the presence of the Traffic Engineer or his representative.

2 — All signing, striping, and pavement markings shown hereon are for reference only. See Plan XL-374,374A,374B for final pavement delineation and other signs.

3 — Typical detector loop spacing: 10', 15', and 30'(If applicable).

4 — See Plans R-3447 for street improvements.

5 — At new contrller cabinet installations, contractor shall remove ground cover and grade as required.

CONSTRUCTION NOTES

1 — System shall have new cables and cunductors, except as noted.

2 — Pedestrian Push Buttons shall be installed on poles in the quadrant nearest the crosswalk serving the phase.

3 — Conduit shall be installed to service pole and 90 up pole to 6" above grade. City of Riverside Public Utilities will install conductors to enclosure.

4 — Install Caltrans Type III-AF Service Equipment Enclosure. See Special Provisions for additional specifications.

5 — Pullbox shall conform to City of Riverside Public Utilities Standard Drawing No. UGS-320 for ESB-6 Underground Structures. Cover shall be marked "City of Riverside Electric".

ENCROACHMENT PERMIT NO. 08-97-N-MC-0184

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ENGINEER IN RESPONSIBLE CHARGE
Richard D. McGrath
RICHARD D. McGRATH
R.C.E. No. 31952 expires 12-31-2000
DATE 4-2-97

REGISTERED PROFESSIONAL ENGINEER RICHARD D. McGRATH No. 31952 Exp. 12-31-2000 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ___ DRAWN BY MAC CHECKED BY ___

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
P.W. INSPECTION		
TRAFFIC DIVISION		4/2/97
CHIEF P.W. ENGR.		4/4/97
PUBLIC UTILITIES		4/2/97

APPROVED BY ___ DIRECTOR OF PUBLIC WORKS
DATE 4/4/97

TRAFFIC SIGNAL MODIFICATION
UNIVERSITY AVE. @ S.R.-60/I-215 FWY
SCALE: 1" = 20'

ACCT. NO. 0476-528160-440440-90192
X-291
SHEET 2 OF 2
FILE NAME: X291-2.DWG

POLE SCHEDULE

STANDARD No.	TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUM. HPSV	SIGNAL HEAD	SIGNAL MOUNTING VEHICLE	SIGNAL MOUNTING PED	PPB PHASE	REMARKS
(A)	1-C(E)	10'				1W3C(E)	TV-1(E)	SP-1-T(N)	8(N)	
(B)	24A(E)	35'	35'(E)	15'(E)	200W(E)	1W3C(E)	MAS(E)			
						1W3C(E)	MAS(E)			
						1W3C(E)	SV-1-T(E)	SP-1-T(N)	8(N)	
(C)	1-C(E)	10'				1W3C(E)	TV-1-T(E)			
(D)	19A-2-80(N)	35'	30'(N)	15'(N)	200W(R)	1W3C(R)	MAS(R)			Provide wire, mount a Type III P.E.C. and test switch (Contactor) on pole.
						1W3C(R)	SV-1-T(R)			

NOTE:

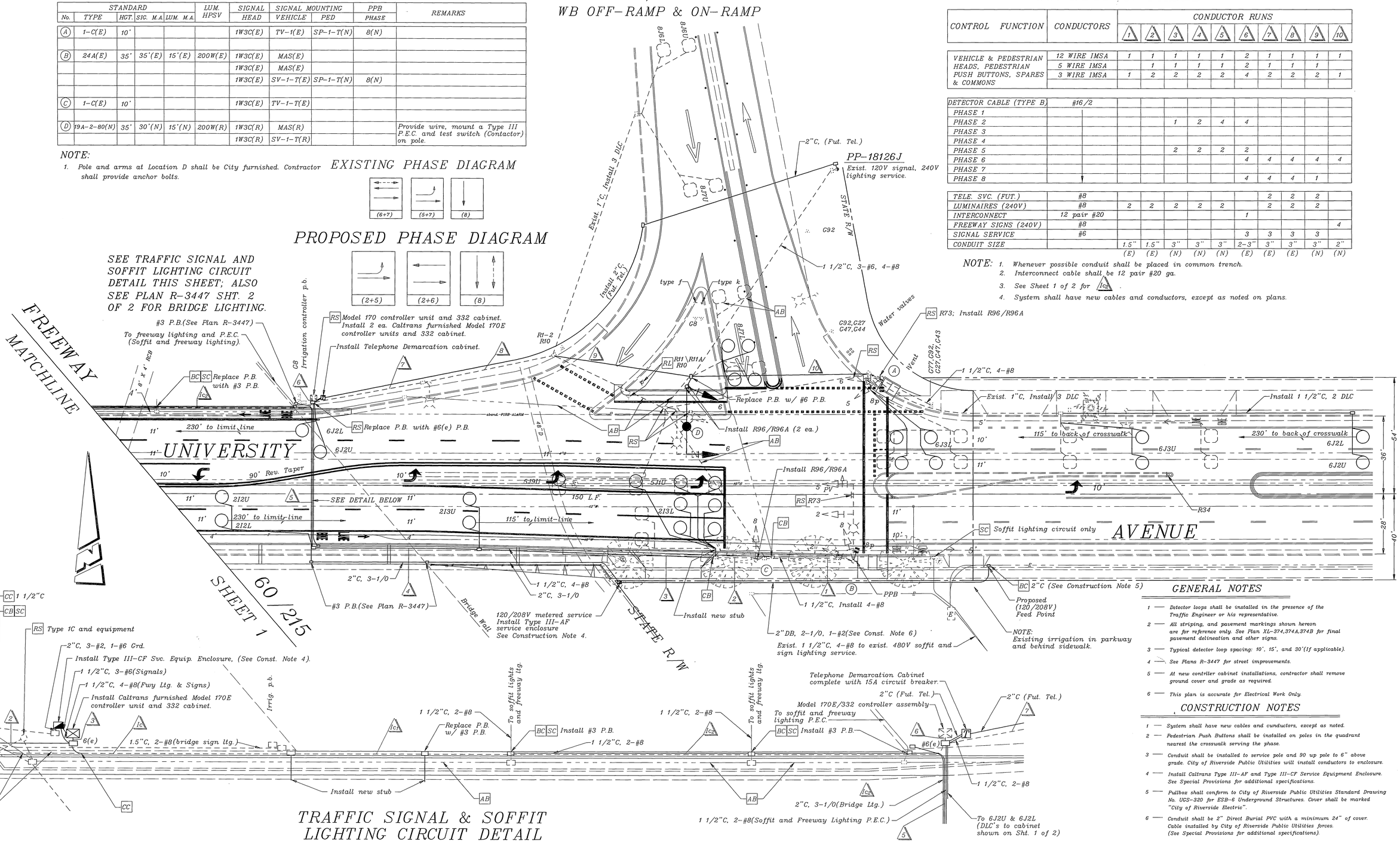
1. Pole and arms at Location D shall be City furnished. Contractor shall provide anchor bolts.

EXISTING PHASE DIAGRAM

PROPOSED PHASE DIAGRAM

SEE TRAFFIC SIGNAL AND SOFFIT LIGHTING CIRCUIT DETAIL THIS SHEET; ALSO SEE PLAN R-3447 SHT. 2 OF 2 FOR BRIDGE LIGHTING.

FWY 60/215 WB OFF-RAMP & ON-RAMP



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	1	1	1	1	1	2	1	1	1	1
	5 WIRE IMSA		1	1	1	1	2	1	1	1	
	3 WIRE IMSA	1	2	2	2	2	4	2	2	2	1
DETECTOR CABLE (TYPE B)	#16/2										
PHASE 1											
PHASE 2				1	2	4	4				
PHASE 3											
PHASE 4											
PHASE 5				2	2	2	2				
PHASE 6							4	4	4	4	4
PHASE 7											
PHASE 8							4	4	4	1	
TELE. SVC. (FUT.)	#8							2	2	2	
LUMINAIRES (240V)	#8	2	2	2	2	2		2	2	2	
INTERCONNECT	12 pair #20						1				
FREEWAY SIGNS (240V)	#8										4
SIGNAL SERVICE	#6						3	3	3	3	
CONDUIT SIZE		1.5" (E)	1.5" (E)	3" (N)	3" (N)	3" (N)	2-3" (E)	3" (E)	3" (E)	3" (N)	2" (N)

NOTE:

1. Whenever possible conduit shall be placed in common trench.
2. Interconnect cable shall be 12 pair #20 ga.
3. See Sheet 1 of 2 for 1C2.
4. System shall have new cables and conductors, except as noted on plans.

GENERAL NOTES

1 — Detector loops shall be installed in the presence of the Traffic Engineer or his representative.

2 — All striping, and pavement markings shown hereon are for reference only. See Plan XL-374,374A,374B for final pavement delineation and other signs.

3 — Typical detector loop spacing: 10', 15', and 30'(If applicable).

4 — See Plans R-3447 for street improvements.

5 — At new contriler cabinet installations, contractor shall remove ground cover and grade as required.

6 — This plan is accurate for Electrical Work Only.

CONSTRUCTION NOTES

1 — System shall have new cables and cunductors, except as noted.

2 — Pedestrian Push Buttons shall be installed on poles in the quadrant nearest the crosswalk serving the phase.

3 — Conduit shall be installed to service pole and 90 up pole to 6" above grade. City of Riverside Public Utilities will install conductors to enclosure.

4 — Install Caltrans Type III-AF and Type III-CF Service Equipment Enclosure. See Special Provisions for additional specifications.

5 — Pullbox shall conform to City of Riverside Public Utilities Standard Drawing No. UGS-320 for ESB-6 Underground Structures. Cover shall be marked "City of Riverside Electric".

6 — Conduit shall be 2" Direct Burial PVC with a minimum 24" of cover. Cable installed by City of Riverside Public Utilities forces. (See Special Provisions for additional specifications).

TRAFFIC SIGNAL & SOFFIT LIGHTING CIRCUIT DETAIL

ENCROACHMENT PERMIT NO. 08-97-N-MC-0184

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 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 expires 12-31-2000
DATE 7/14/97

REGISTERED PROFESSIONAL ENGINEER RICHARD D. McGRATH No. 31952 Exp. 12-31-2000 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ___ DRAWN BY MAC CHECKED BY ___

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		7/14/97
P.W. INSPECTION		
TRAFFIC DIVISION		7/11/97
CHIEF P.W. ENGR.		7/14/97
PUBLIC UTILITIES		7-14-97

APPROVED BY DIRECTOR OF PUBLIC WORKS
DATE 7/14/97

TRAFFIC SIGNAL MODIFICATION
UNIVERSITY AVE. @ S.R.-60/I-215 FWY
SCALE: 1" = 20'

ACCT. NO. ~~0476-528160 449419 99192~~
X-291
SHEET 2 OF 2
FILE NAME: X291-2.DWG