

CONDUCTOR		TABLE				
AWG	CIRCUIT	RUNS				
		1*	2*	3	4	5
#14	0 2	3	3	3	3	6
	0 4	3	3	3	-	6
	0 2 PED	2	2	2	2	4
	0 4 PED	2	2	2	2	4
	0 2 PPB	1	2	1	1	4
0 4 PPB	1	2	1	1	4	
SPARES		3	3	3	3	6
TOTAL		15	17	15	12	34
#12	PPB COMMON	1	1	1	1	2
	SPARES	1	1	-	-	1
	TOTAL	2	2	1	1	3
2 - #12 CABLE	0 2 DETECTOR	-	3	3	3	6
	0 4 "	1	1	-	-	2
TOTAL CABLES		1	4	3	3	8
#8 LUMINAIRE	2	2	2	-	-	-
	#10 SIGNAL COMMON	1	1	1	1	2
INTERCONNECT		-	-	-	-	2
CONDUIT SIZE		2"	2 1/2"	2 1/2"	2"	2-3"

* = NEW CONDUCTORS.
#3 CONDUCTORS FOR LUMINAIRES SHALL HAVE THW INSULATION.

INSTALL 20 FULL ACTUATED CONTROLLER WITH DETECTOR SENSOR UNITS AND INTERCONNECT INTERFACE IN A TYPE 'P' CABINET.

EXIST. SERVICE POLE SIGNAL 2 LIGHTING PP # 528705 E

1 1/4" C. 4 #8

INSTALL 1 1/2" C. RUN 2 #8 TO POLE 1 AND 2 #8 TO THE CONTROLLER. ADD 1-2 #12 CABLE USE EXIST 4 #8

REMOVE EXIST. CONTROLLER TYPE 'G' CABINET & FOUNDATION.

REPLACE PB. INTERCEPT 2" C. INTERCONNECT CONDUIT. INSTALL WIRE TO POLE (A)

REPLACE PB. INTERCEPT CONDUITS INTO POLES (C & D)

1" C. 1-2 #12 CABLE

2" C. 4 #14 INTERCONNECT REMOVE #14'S INSTALL 1-6 PAIR #19 CABLE

No.	TYPE	HEIGHT	SIGMA	LUM.MA.	LUMINAIRE	SCHEDULE		REMARKS	
						SIGNAL VEHICLE	MOUNTING PED		
(A)	17A-2-70	35'	20'	12'	400WHPSV	-	MAS SV-2-T	SP-2-T 4	INSTALL ALL NEW EQUIPMENT
(B)	PPB	3'-10"	-	-	-	-	-	-	POST MTD.
(C)	45D (R) CONC.	-	-	4	250WHPSV(H)	-	SV-1-T (E)	SP-2-T (H) 2 (H)	INSTALL PPB
(D)	1-C (E)	10'	-	-	-	-	TV-1 (E)	SP-2-T (H) 4 (E)	INSTALL PED CONTROL
(E)	17A-2-70	35'	20'	12'	400WHPSV	-	MAS SV-2-T	SP-2-T 4	INSTALL ALL NEW EQUIPMENT
(F)	PPB	3'-10"	-	-	-	-	-	-	POST MTD.
(G)	45D (R) CONC.	-	-	4'	250WHPSV(H)	-	SV-1-T (E)	SP-2-T (H) 2 (H)	INSTALL PPB
(H)	1-C (R)	10'	-	-	-	-	TV-1 (E)	SP-2-T (H) 4 (E)	INSTALL PED CONTROL

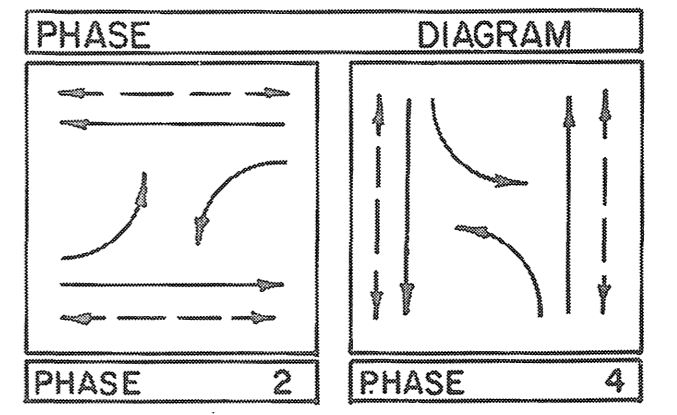
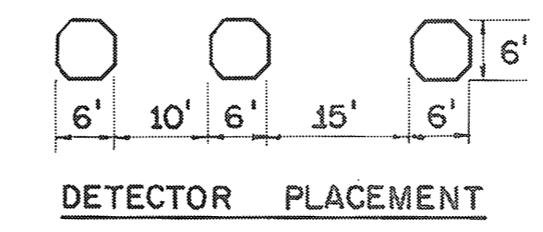
(E) = EXISTING EQUIPMENT TO BE USED.
(H) = NEW EQUIPMENT
(R) = RELOCATE

NOTES: (THIS SHEET)

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THIS PLAN AND THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, JULY 1984.
- REFER TO THE "STANDARD PLANS" OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, JULY 1984, FOR TRAFFIC SIGNAL AND HIGHWAY LIGHTING INSTALLATION DETAILS.
- PAINT 12" CROSSWALK LINE (± 210 L.F.).
- REMOVE EXISTING CROSSWALK LINE (± 170 L.F.).
- ALL TRAFFIC STENCILS, STRIPING, X-WALKS, AND LIMIT LINES, TO BE DONE BY THE CONTRACTOR.
- THE PRIVATE ENGINEER SIGNING THIS PLAN IS RESPONSIBLE FOR THE ACCURACY AND ACCEPTABILITY OF THE WORK THEREOF IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION. THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLAN FOR APPROVAL BY THE CITY.
- THE CONTRACTOR SHALL REMOVE THE EXISTING STRIPING AS SHOWN ON THIS PLAN.
- PRIOR TO PERFORMING ANY EXCAVATION, THE CONTRACTOR SHALL CALL UNDERGROUND ALERT, 1-800-422-4133, FOR UNDERGROUND UTILITIES INTERFERENCE CHECKS.
- DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
- CONTACT THE TRAFFIC SIGNAL MAINTENANCE SHOP AT 714-787-7576 48 HOURS IN ADVANCE OF CONSTRUCTION TO SCHEDULE INSPECTION.
- A STREET OPENING PERMIT, OBTAINED AT THE CITY OF RIVERSIDE PUBLIC WORKS DEPT., IS REQUIRED FOR THIS WORK.
- SEE PLAN R-2859 FOR STREET IMPROVEMENTS.
- THE CONTRACTOR SHALL INSTALL THE DETECTOR LOOPS WITHIN 5 DAYS AFTER NOTIFICATION BY THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.

SENSOR		TABLE	
SENSOR	LOOP	DETECTORS	
1	1-E-2	(3)	
2	2-E-2	(4)	
3	3-E-2	** (2)	
4	1-W-2	(3)	
5	2-W-2	(4)	
6	3-W-2	** (2)	
7	1-N-4	(2)	
8	1-S-4	(1)	

** = 2-CHANNEL SENSOR WITH INTEGRAL ADJUSTABLE EXTENSION TIMERS ONE INPUT TO CONTROLLER AND ONE INPUT FOR SAMPLING.
() = NUMBER OF LOOPS PER SENSOR.



APPROVED BY:
PACIFIC BELT
John C. Dush 3-13-84
DATE

APPROVED BY:
SOUTHERN CALIFORNIA GAS CO.
William R. Lanza 3/14/87
DATE

MOHLE, GROVER & ASSOCIATES
901 East Imperial Highway, Suite A
La Habra, CA 90631 (714)738-3471

PREPARED BY:
W.P. Mohle 05.9.1980
MOHLE, PERRY & ASSOC.
DESIGN ENGR. R.C.E. 10692 DATE

MARK	REVISIONS	APPR.	DATE

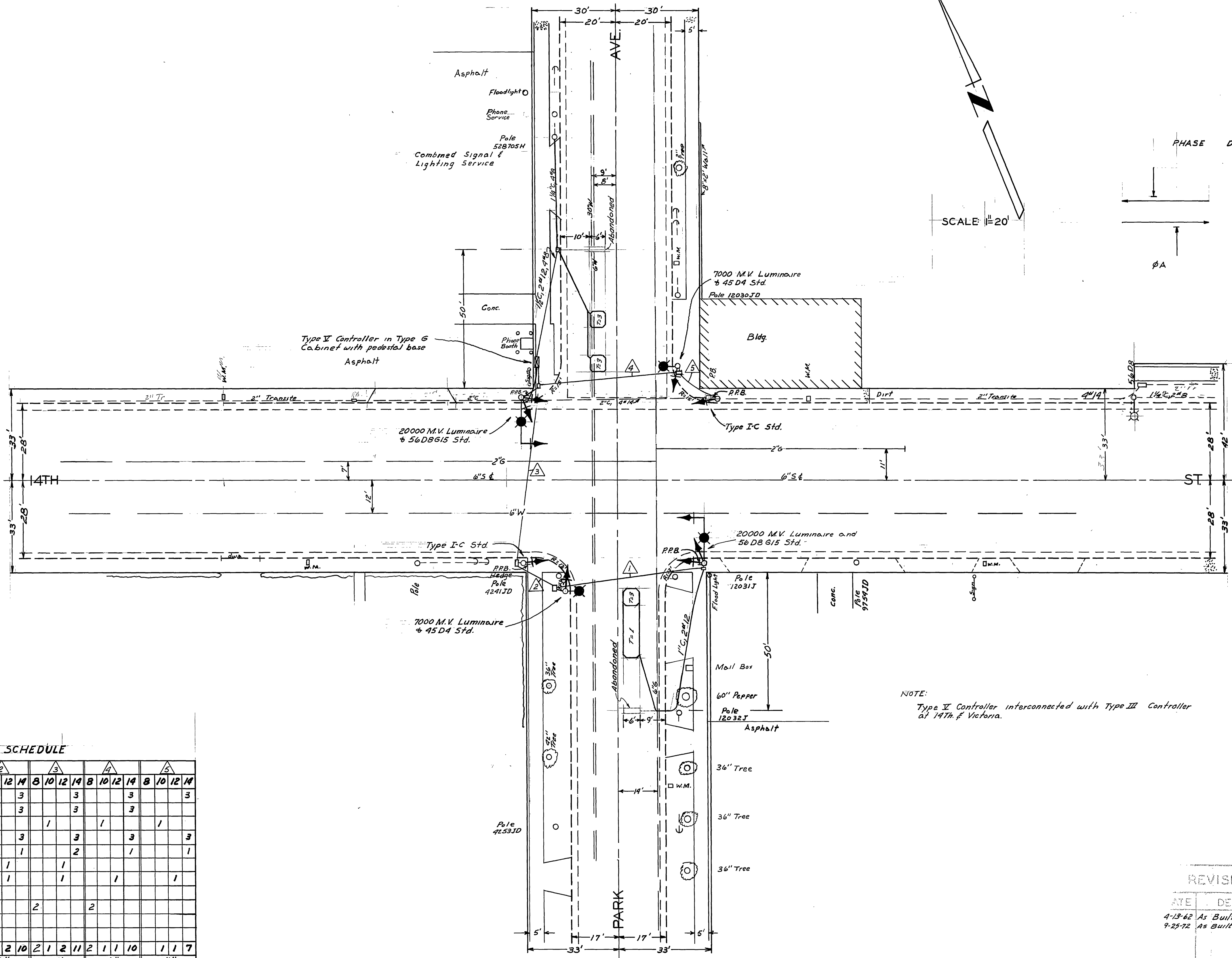
CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: *W. J. ...* DATE: 4-23-87
PRINCIPAL ENGINEER
TRAFFIC DIVISION
DESIGNED BY: J.A.T. DRAWN BY: E.D.L. CHECKED BY: R.H.M.

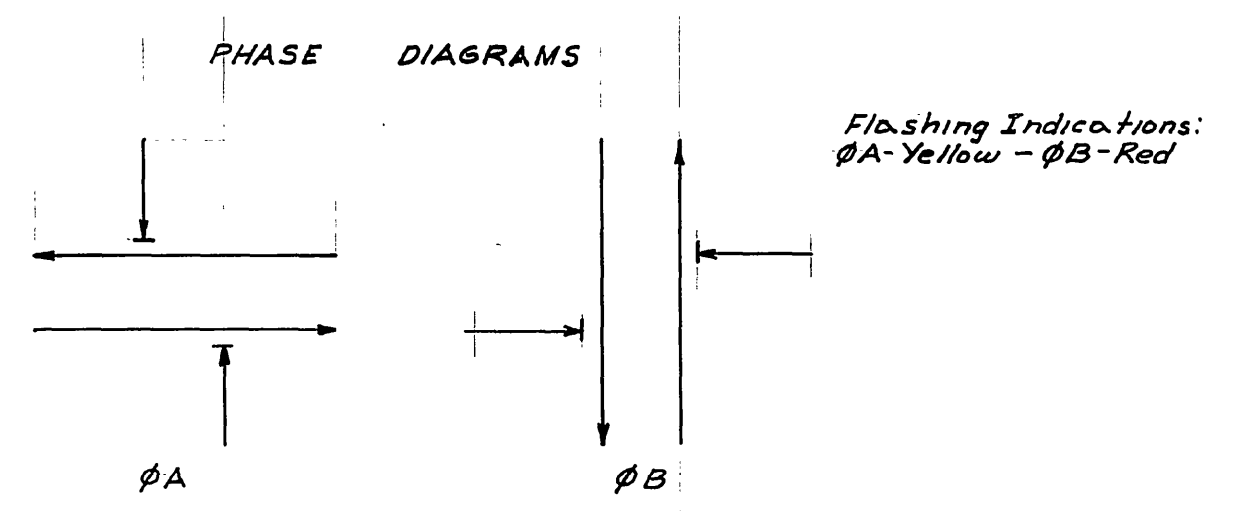
MODIFICATIONS SW CORNER
TRAFFIC SIGNAL PLAN
14th STREET AT
PARK AVENUE

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" =

INDEX/CD
PROJECT NO. X-102
SHEET 1 OF 1
FILE NO. 386-1019



SCALE: 1"=20'



NOTE:
Type II Controller interconnected with Type III Controller at 14th & Victoria.

CONDUCTOR SCHEDULE

CONDUCTOR RUN	A			B			C			D			E			
CONDUCTORS	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14
Ø A			3			3		3			3			3		3
Ø B			3			3		3			3			3		3
110V Neutral	1			1			1		1			1			1	
Spares			3			3		3			3			3		3
Ø B P.P.B.			1			1		2			1			1		1
Ø B Det.			1			1										
12V Neutral			1			1		1			1			1		1
Signal Service																
Luminaires	2			2			2		2			2			2	
Total Conductors	2	1	2	10	2	1	2	10	2	1	2	11	2	1	1	10
Conductor Size	1 1/2"			1 1/2"			2"			1 1/2"			1 1/2"			

REVISIONS		CITY OF RICHMOND
DATE	DESCRIPTION	DEPARTMENT
4-13-62	As Built	add
9-25-72	As Built (installed loops)	add

TRAFFIC SIGNALS
14TH ST - PARK AVE.

A.D.D. CHECKED
A.D.D. *Woffe*
AP. Chual

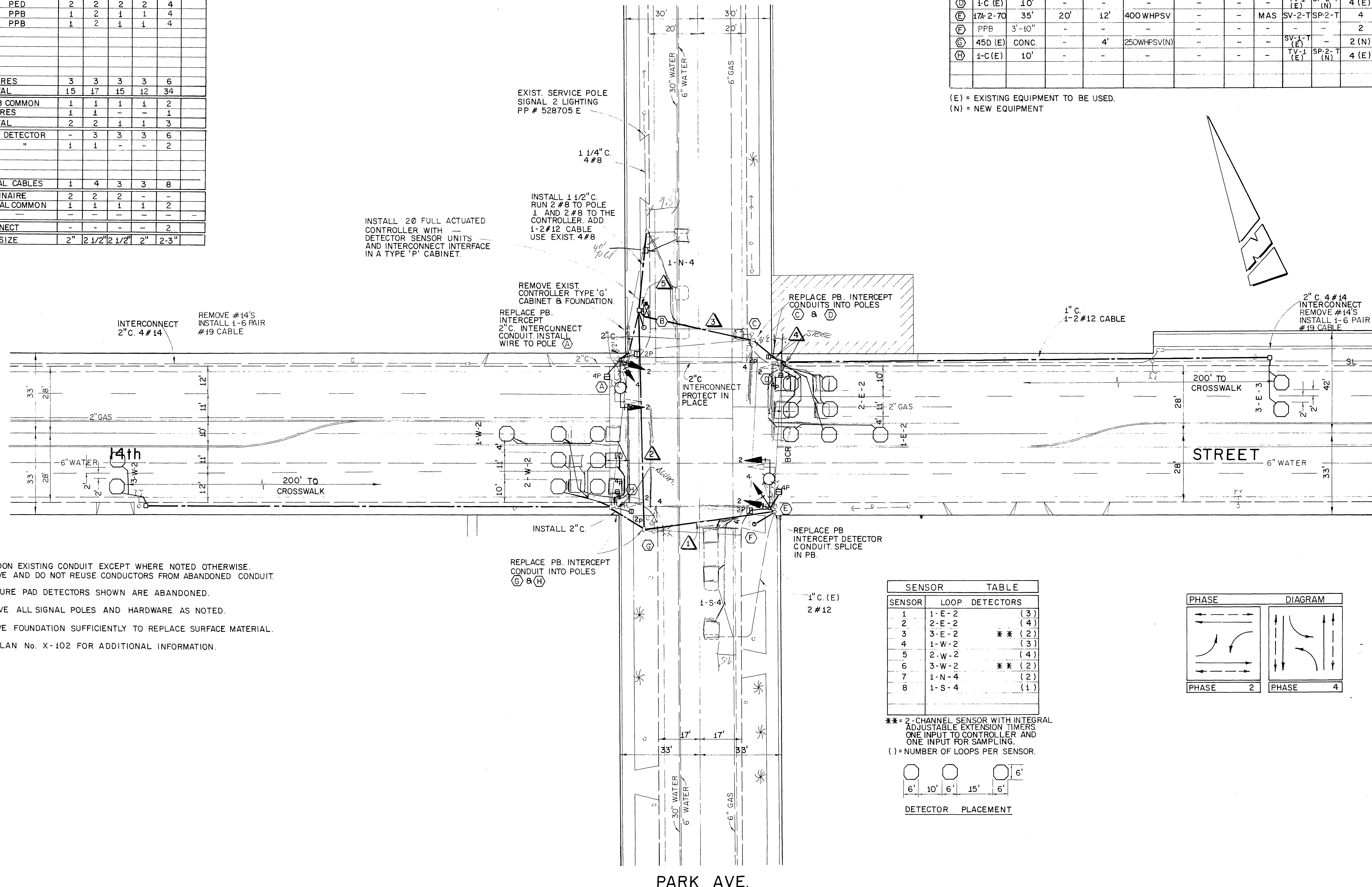
J. M. Chual
4-16-62

X-102

CONDUCTOR		TABLE				
AWG	CIRCUIT	RUNS				
		1	2	3	4	5
#14	Ø 2	3	3	3	3	6
	Ø 4	3	3	3	-	6
	Ø 2 PED	2	2	2	2	4
	Ø 4 PED	2	2	2	2	4
	Ø 2 PPB	1	2	1	1	4
	Ø 4 PPB	1	2	1	1	4
SPARES		3	3	3	3	6
TOTAL		15	17	15	12	34
#12	PPB COMMON	1	1	1	1	2
	SPARES	1	1	-	-	1
	TOTAL	2	2	1	1	3
2 - #12 CABLE	Ø 2 DETECTOR	-	3	3	3	6
	Ø 4 "	1	1	-	-	2
TOTAL CABLES		1	4	3	3	8
# 8	LUMINAIRE COMMON	2	2	2	-	-
# 10	SIGNAL COMMON	1	1	1	1	2
INTERCONNECT		-	-	-	-	2
CONDUIT SIZE		2"	2 1/2"	2 1/2"	2"	2-3"

POLE							SCHEDULE				
No.	TYPE	HEIGHT	SIGMA	LUM.MA.	LUMINAIRE	SIGNAL MOUNTING	VEHICLE		PPB PHASE	REMARKS	
							VEHICLE	PED			
Ⓐ	17A-2-70	35'	20'	12'	400WHPSV	-	MAS	SV-2-T	SP-2-T	4	INSTALL ALL NEW EQUIPMENT
Ⓑ	PPB	3'-10"	-	-	-	-	-	-	-	2	POST MTD.
Ⓒ	45D (E) CONC.	-	-	4	250WHPSV(N)	-	-	SV-1-T (E)	SP-2-T (N)	2 (N)	INSTALL PPB
Ⓓ	1-C (E)	10'	-	-	-	-	-	TV-1 (E)	SP-2-T (N)	4 (E)	INSTALL PED CONTROL
Ⓔ	17A-2-70	35'	20'	12'	400WHPSV	-	MAS	SV-2-T	SP-2-T	4	INSTALL ALL NEW EQUIPMENT
Ⓕ	PPB	3'-10"	-	-	-	-	-	-	-	2	POST MTD.
Ⓖ	45D (E) CONC.	-	-	4	250WHPSV(N)	-	-	SV-1-T (E)	SP-2-T (N)	2 (N)	INSTALL PPB
Ⓗ	1-C (E)	10'	-	-	-	-	-	TV-1 (E)	SP-2-T (N)	4 (E)	INSTALL PED CONTROL

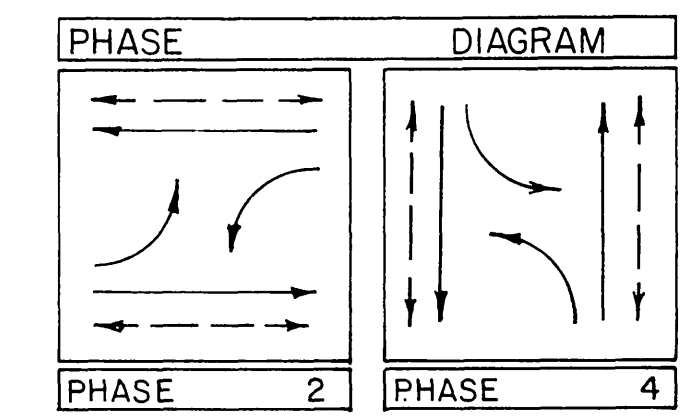
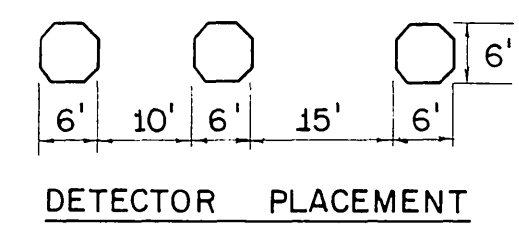
(E) = EXISTING EQUIPMENT TO BE USED.
(N) = NEW EQUIPMENT



- NOTES
- 1 ABANDON EXISTING CONDUIT EXCEPT WHERE NOTED OTHERWISE. REMOVE AND DO NOT REUSE CONDUCTORS FROM ABANDONED CONDUIT.
 - 2 PRESSURE PAD DETECTORS SHOWN ARE ABANDONED.
 - 3 REMOVE ALL SIGNAL POLES AND HARDWARE AS NOTED.
 - 4 REMOVE FOUNDATION SUFFICIENTLY TO REPLACE SURFACE MATERIAL.
 - 5 SEE PLAN No. X-102 FOR ADDITIONAL INFORMATION.

SENSOR TABLE		
SENSOR	LOOP	DETECTORS
1	1-E-2	(3)
2	2-E-2	(4)
3	3-E-2	** (2)
4	1-W-2	(3)
5	2-W-2	(4)
6	3-W-2	** (2)
7	1-N-4	(2)
8	1-S-4	(1)

** = 2-CHANNEL SENSOR WITH INTEGRAL ADJUSTABLE EXTENSION TIMERS ONE INPUT TO CONTROLLER AND ONE INPUT FOR SAMPLING.
() = NUMBER OF LOOPS PER SENSOR.

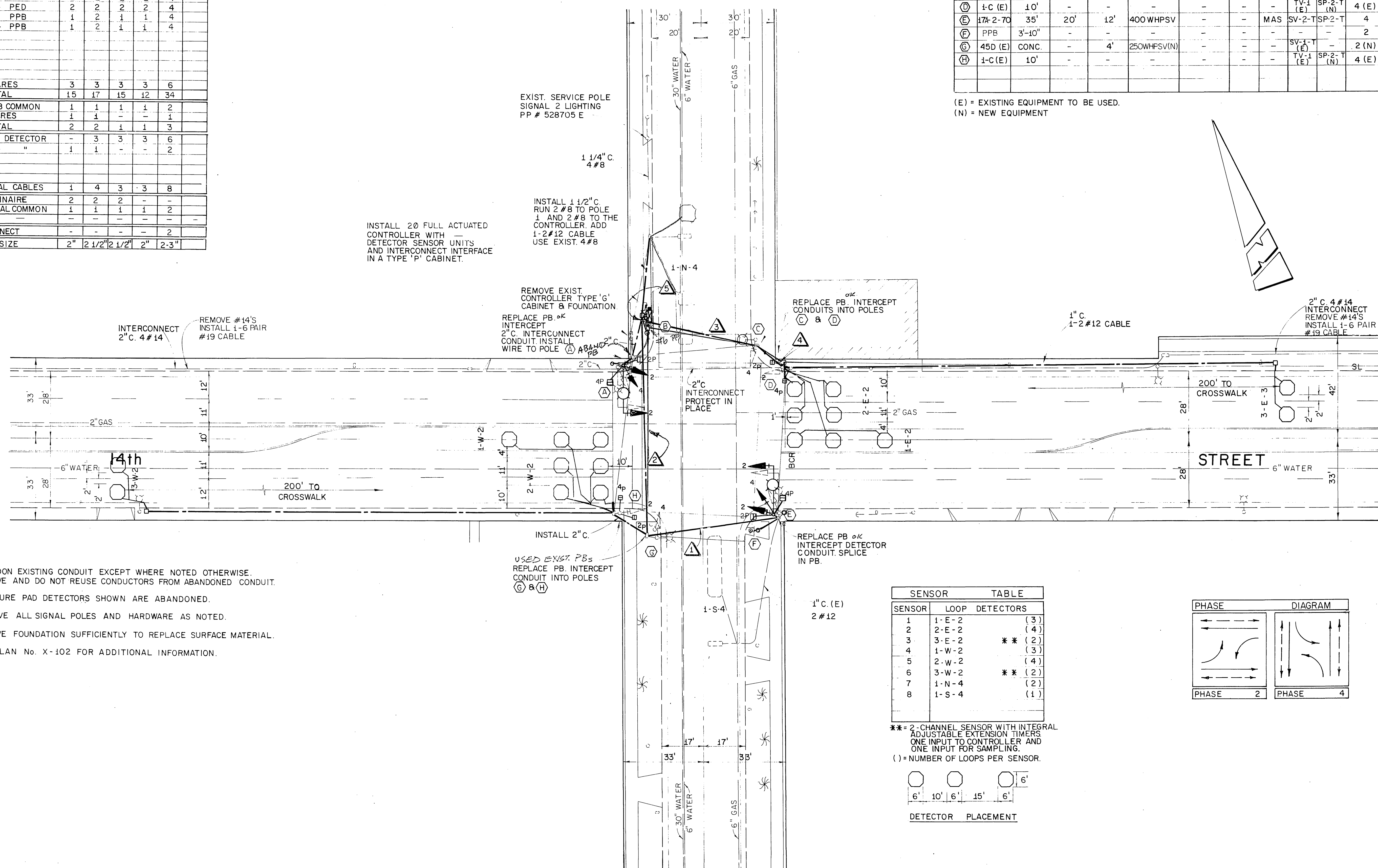


	PREPARED BY: <i>R. A. Mohle</i>	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	TRAFFIC SIGNAL PLAN 14th STREET AT PARK AVENUE	PROJECT NO.
	DESIGN ENGR. R.C.E.10692 DATE			APPROVED BY: <i>[Signature]</i> DIRECTOR OF PUBLIC WORKS
DESIGNED BY J.J.S. DRAWN BY A.G.B. CHECKED BY R.H.M.		DATE: 12/18/80	HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" =	FILE NO.

CONDUCTOR		TABLE				
AWG	CIRCUIT	RUNS				
		1	2	3	4	5
#14	Ø 2	3	3	3	3	6
	Ø 4	3	3	3	-	6
	Ø 2 PED	2	2	2	2	4
	Ø 4 PED	2	2	2	2	4
	Ø 2 PPB	1	2	1	1	4
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SPARES		3	3	3	3	6
TOTAL		15	17	15	12	34
#12	PPB COMMON	1	1	1	1	2
	SPARES	1	1	-	-	1
TOTAL		2	2	1	1	3
2- #12 CABLE	Ø 2 DETECTOR	-	3	3	3	6
	Ø 4 "	1	1	-	-	2
TOTAL CABLES		1	4	3	3	8
# 8	LUMINAIRE	2	2	2	-	-
#10	SIGNAL COMMON	1	1	1	1	2
INTERCONNECT		-	-	-	-	2
CONDUIT SIZE		2"	2 1/2"	2 1/2"	2"	2-3"

POLE							SCHEDULE				
No.	TYPE	HEIGHT	SIGMA	LUM.MA.	LUMINAIRE		SIGNAL MOUNTING		PPB	REMARKS	
							VEHICLE	PED			
(A)	17A-2-70	35'	20'	12'	400WHPSV	-	MAS	SV-2-T	SP-2-T	4	INSTALL ALL NEW EQUIPMENT
(B)	PPB	3'-10"	-	-	-	-	-	-	-	2	POST MTD.
(C)	45D (E) CONC.	-	-	4	250WHPSV(N)	-	-	SV-1-T (E)	-	2 (N)	INSTALL PPB
(D)	1-C (E)	10'	-	-	-	-	-	TV-1 (E)	SP-2-T (N)	4 (E)	INSTALL PED CONTROL
(E)	17A-2-70	35'	20'	12'	400WHPSV	-	MAS	SV-2-T	SP-2-T	4	INSTALL ALL NEW EQUIPMENT
(F)	PPB	3'-10"	-	-	-	-	-	-	-	2	POST MTD.
(G)	45D (E) CONC.	-	-	4	250WHPSV(N)	-	-	SV-1-T (E)	-	2 (N)	INSTALL PPB
(H)	1-C (E)	10'	-	-	-	-	-	TV-1 (E)	SP-2-T (N)	4 (E)	INSTALL PED CONTROL

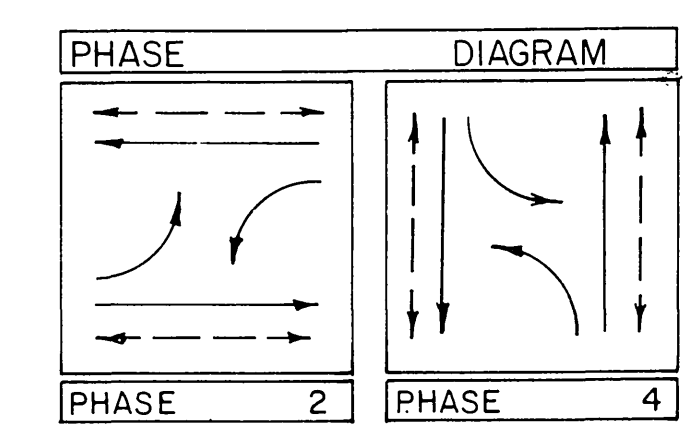
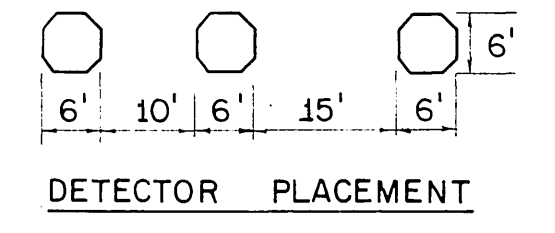
(E) = EXISTING EQUIPMENT TO BE USED.
(N) = NEW EQUIPMENT



- NOTES
- 1 ABANDON EXISTING CONDUIT EXCEPT WHERE NOTED OTHERWISE. REMOVE AND DO NOT REUSE CONDUCTORS FROM ABANDONED CONDUIT.
 - 2 PRESSURE PAD DETECTORS SHOWN ARE ABANDONED.
 - 3 REMOVE ALL SIGNAL POLES AND HARDWARE AS NOTED.
 - 4 REMOVE FOUNDATION SUFFICIENTLY TO REPLACE SURFACE MATERIAL.
 - 5 SEE PLAN No. X-102 FOR ADDITIONAL INFORMATION.

SENSOR TABLE		
SENSOR	LOOP	DETECTORS
1	1-E-2	(3)
2	2-E-2	(4)
3	3-E-2	** (2)
4	1-W-2	(3)
5	2-W-2	(4)
6	3-W-2	** (2)
7	1-N-4	(2)
8	1-S-4	(1)

** = 2-CHANNEL SENSOR WITH INTEGRAL ADJUSTABLE EXTENSION TIMERS ONE INPUT TO CONTROLLER AND ONE INPUT FOR SAMPLING.
() = NUMBER OF LOOPS PER SENSOR.



PREPARED BY: *R. A. Mohle* Oct. 9, 1980
 DESIGN ENGR. R.C.E. 10692 DATE

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY: *[Signature]* DATE: *10/10/80*
 PRINCIPAL ENGINEER
 TRAFFIC DIVISION
 CHIEF P. W. ENGR. *[Signature]* DATE: *10/10/80*
 PUBLIC UTILITIES

AS BUILT 5-14-05 *[Signature]*

TRAFFIC SIGNAL PLAN
 14th STREET AT
 PARK AVENUE

PROJECT NO. _____
 SHEET 45 OF 50
 FILE NO. _____

HORIZ. SCALE: 1" = 20'
 VERT. SCALE: 1" = _____