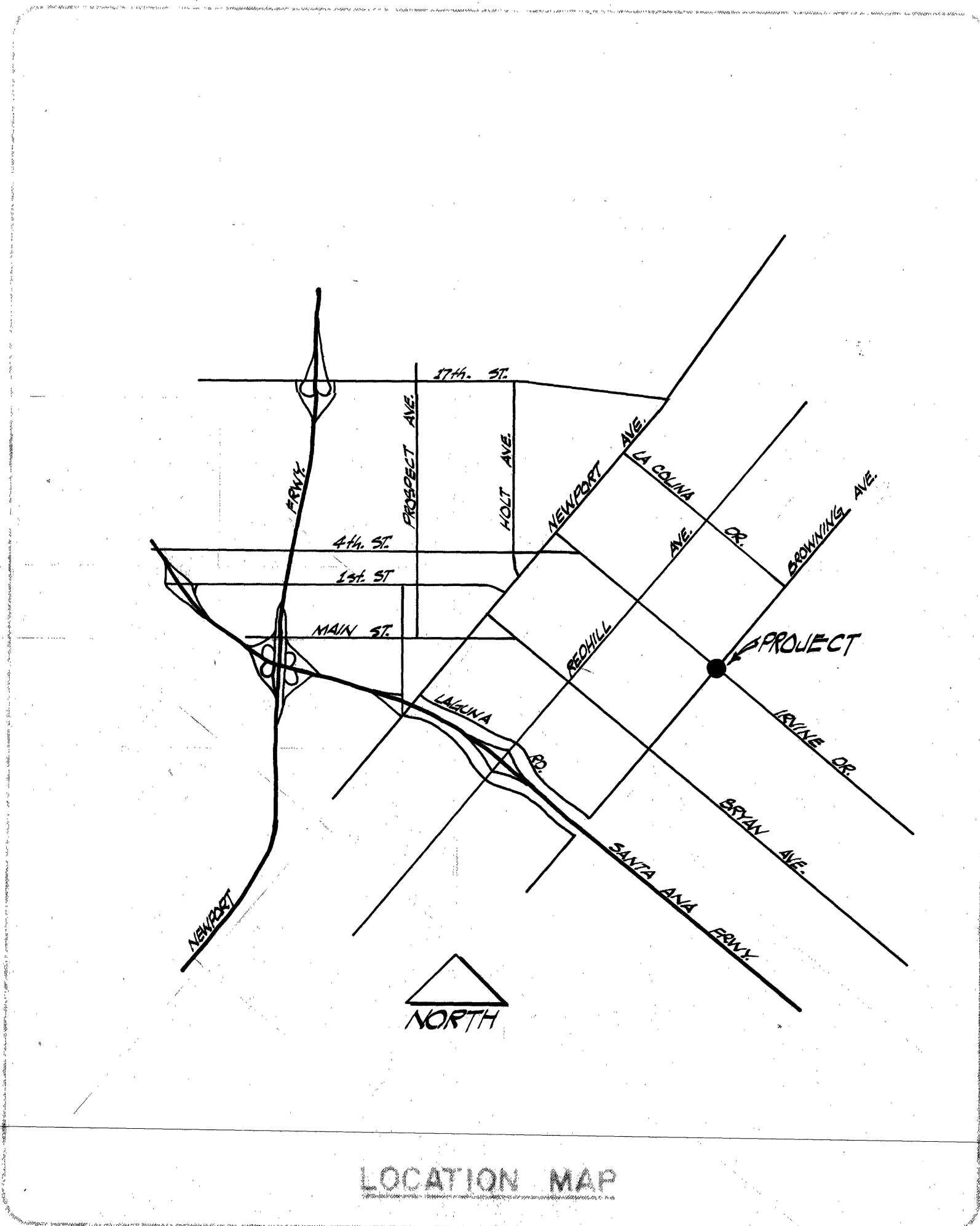
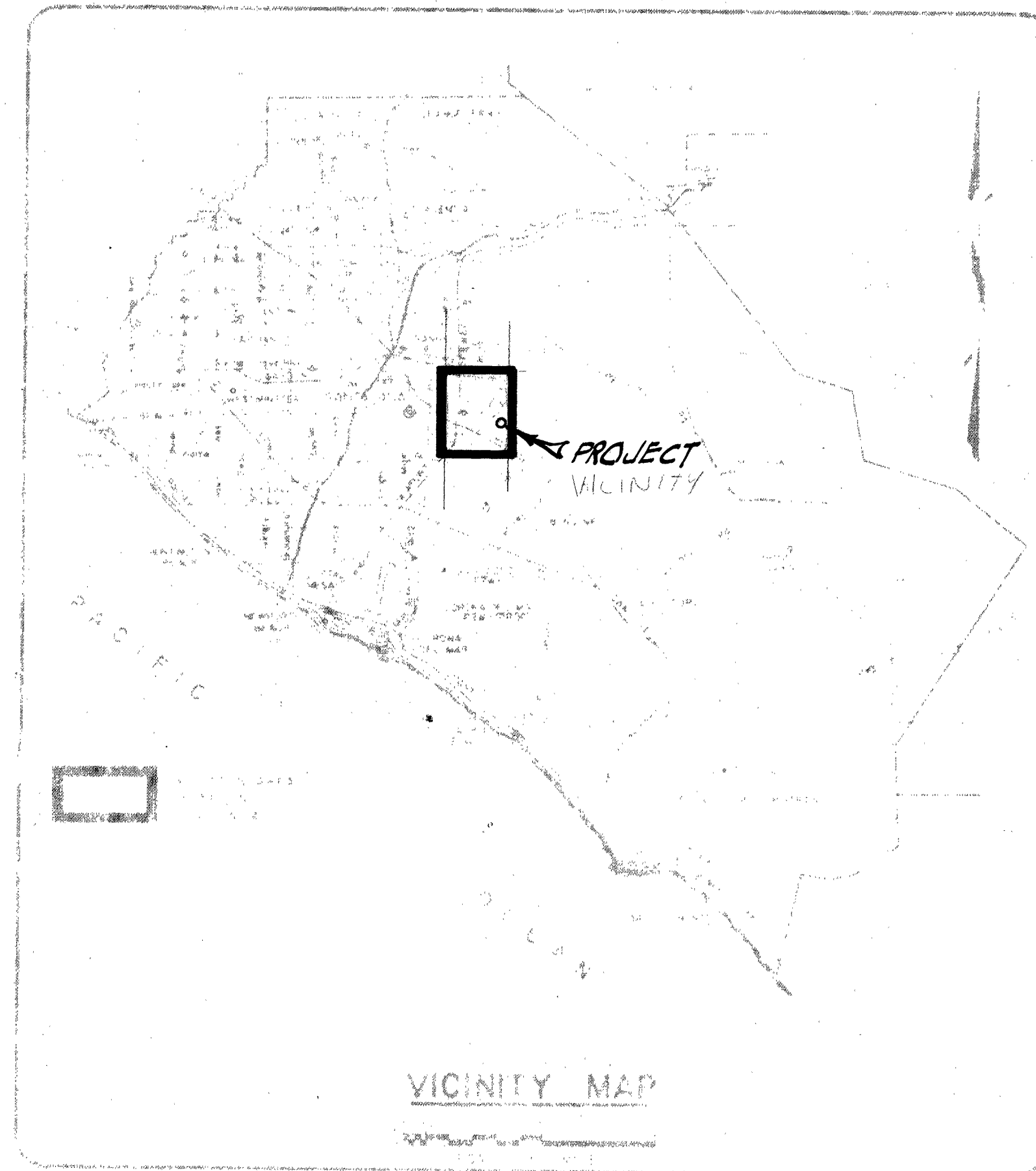




ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY
SANTA ANA, CALIFORNIA
H.G. OSBORNE, DIRECTOR

PLANS FOR CONSTRUCTION OF
**TRAFFIC SIGNAL
IMPROVEMENTS AT
IRVINE BLVD.
AND
BROWNING AV.**

FUNDED BY: HIGHWAY USERS TAXES

EMA-DEVELOPMENT	
SUBMITTED	<i>[Signature]</i> 4/13/77 DIVISION MANAGER RCE 14718
RECOMMENDED	<i>[Signature]</i> 4/13/77 DIVISION MANAGER RCE 13154
APPROVED	<i>[Signature]</i> 4-25-77 ASSISTANT DIRECTOR P.E. 13142

#12510
Browning Ave. & Irvine Blvd
Sheet 1 of 3
Red. 24:1
Linen

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	TITLE SHEET
2	TRAFFIC SIGNAL PLAN
3	DETAIL SHEET.

UTILITY		PHONE NO
EDISON	GIL STOFFORD	835-3833
* PACIFIC TEL.	ERICK McELROY OR DOLORES REED	557-1152
* SO. CAL. GAS	MAX HOWARD	634-0211
TUSTIN WATER	EARL ROWENHORST	544-4370
CO. SANITATION DIST.	JIM ELLIS	962-2411
U.S. NAVY	K. STANSBURY	(213) 831-3144
* U. S. A. MEMBERS		(800) 422-4133

BENCH MARK	BASIS OF BEARING

NO.	DESCRIPTION	SHEET	APPROVED	DATE

WFO NO. R 14334	SHEET 1 OF 3
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DR# 2 (12510)

DRAWING NUMBER
B200.2

DRAWING NUMBER
B200.2

DRAWING NUMBER
B200.2

DRAWING NUMBER
B200.2

* CONDUCTOR		TABLE							
AWG	CIRCUIT	RUNS							
		1	2	3	4	5	6	7	8
# 14	0A1	-	-	-	3	-	-	-	3
	0A2	3	3	3	3	-	-	-	6
	0A3	3	3	3	3	3	3	3	6
	0A4	3	3	3	3	3	3	3	6
	0B	-	3	3	3	3	3	3	6
	0A2 PED	2	2	2	-	-	-	-	2
	0A4 PED	-	-	-	2	2	2	2	2
	0B PED	-	2	2	2	2	2	2	4
	0A2 PPB	-	1	1	-	-	-	-	1
	0A4 PPB	-	-	-	1	1	1	1	1
# 12	PPB COMMON	1	1	1	1	1	1	1	2
	I.S.N.S.	-	2	2	2	2	2	2	2
# 10	LUMINAIRE	-	2	2	2	2	2	2	-
	SIGNAL COMMON	1	1	1	1	1	1	1	2
# 8	CONDUIT SIZE	2"	2 1/2"	3"	2 1/2"	2"	2"	1 1/2"	2-3"
	CONDUIT SIZE	2"	2 1/2"	3"	2 1/2"	2"	2"	1 1/2"	2-3"

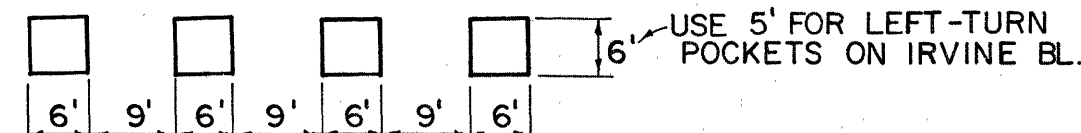
* REUSE EXISTING CONDUCTORS

SENSOR		TABLE	
SENSOR	LOOP DETECTORS		
		1	2
1	1-E-A	(4)	
2	2-E-A	(4)	
3	3-E-A	(1)	
4	1-W-A	(4)	
5	2-W-A	(4)	
6	3-W-A	(1)	
7	1-N-B & 2-S-B	(4)	
8	2-N-B & 3-S-B	(2)	
9	1-S-B	(4)	
10	4-S-B	(1)	

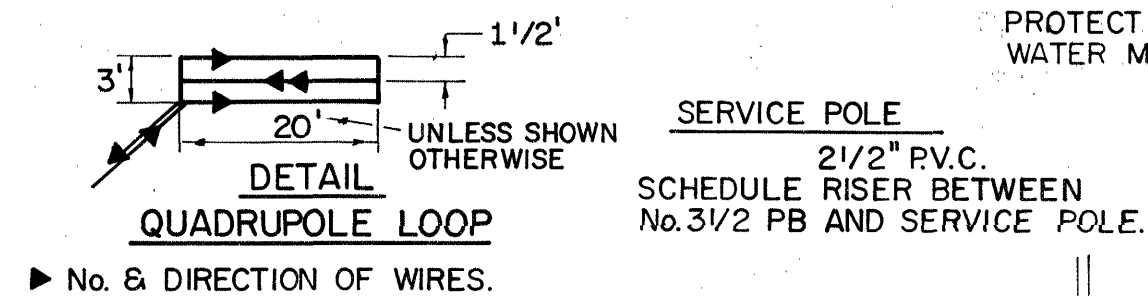
* SENSOR SHALL HAVE A SEPARATE OR INTEGRAL MIN. 0-7 SECOND ADJUSTABLE EXTENSION TIMER.

** SENSOR SHALL HAVE A SEPARATE OR INTEGRAL MIN. 0-30 SECOND ADJUSTABLE DELAY TIMER.

() = LOOPS PER SENSOR



DETAIL
DETECTOR PLACEMENT



No. & DIRECTION OF WIRES.

BROWNING AVE.

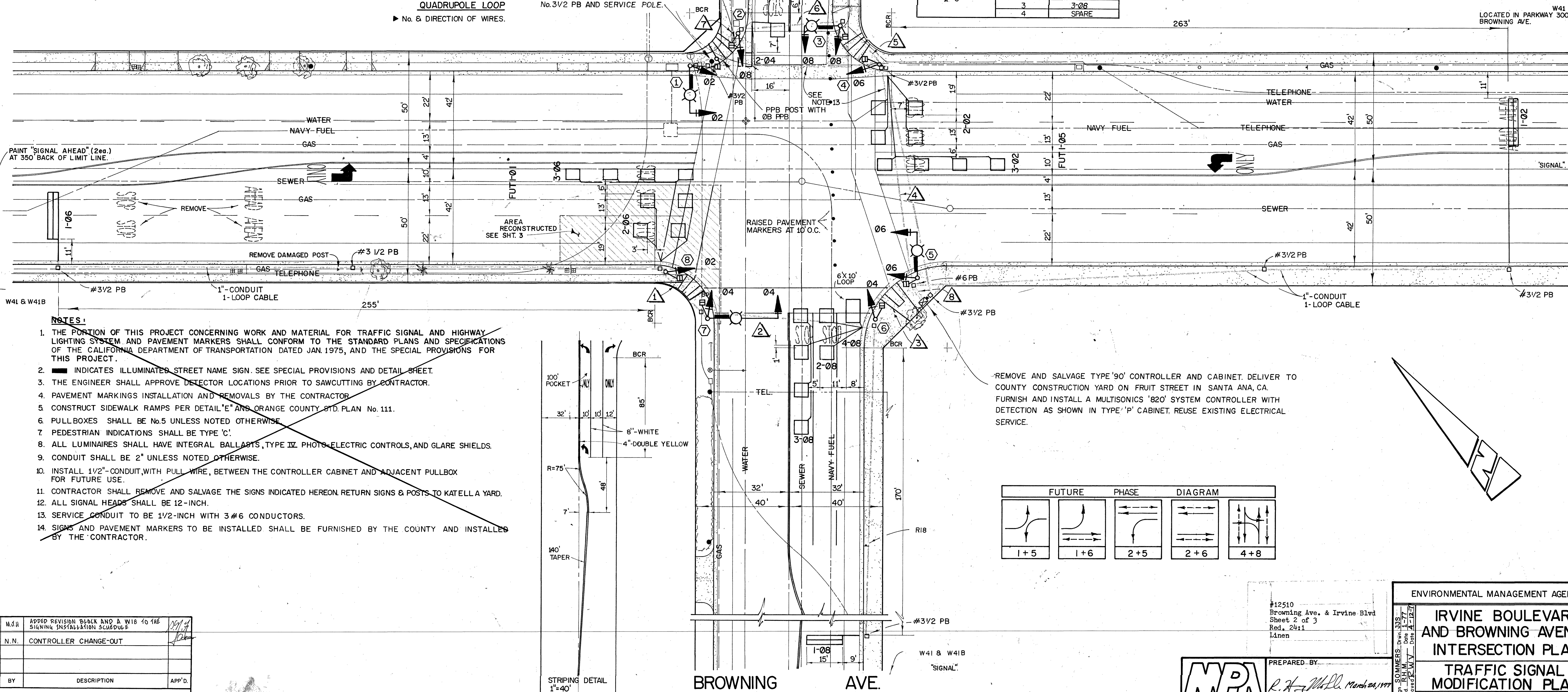
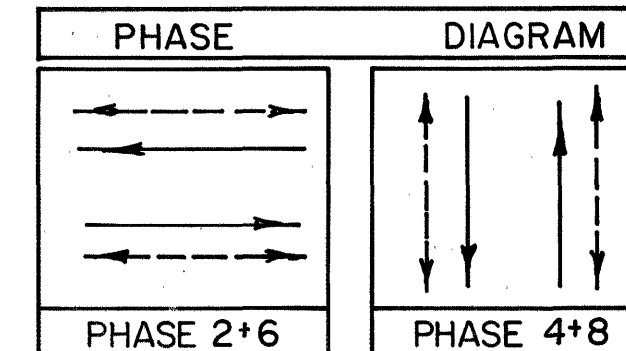
POLE					SCHEDULE							
STANDARD					LUMINAIRE	I.S.N.S. LEGEND	SIGNAL		MTG.	PED. PUSH BTN.		REMARKS
No.	TYPE	HEIGHT	SIG.M.A.	LUM.M.A.			VEHICLE	PED	TYPE	PHASE		
①	17 *	28'-6"	20'	12'	250WHPSV	Browning	MAS	SV-1-T	SP-1-T	-	-	
②	1-A	10'	-	-	-	-	-	TV-1	SP-1-T	B	A	
③	17	28'-6"	15'	12'	250WHPSV	Irvine	MAS	SV-1-T	SP-1-T	B	A	
④	1-A	10'	-	-	-	-	-	TV-1-T	SP-1-T	B	B	
⑤	17 *	28'-6"	20'	12'	250WHPSV	Browning	MAS	SV-1-T	SP-1-T	B	B	
⑥	1-A	10'	-	-	-	-	-	TV-1	SP-1-T	B	A	
⑦	19	30'	30'	12'	250WHPSV	Irvine	MAS	SV-1-T	SP-1-T	B	A	
⑧	1-A	10'	-	-	-	-	-	TV-1-T	SP-1-T	B	B	

I.S.N.S. = ILLUMINATED STREET NAME SIGN.

* TYPE 17 POLE HAS ANCHOR BOLTS ARE AN EXTENDED SLOTTED BASE PLATE. THE FOUNDATION, BOLT CIRCLE AND FOR A TYPE 26 POLE. FOUNDATION = C10H 42" X 8'-0".

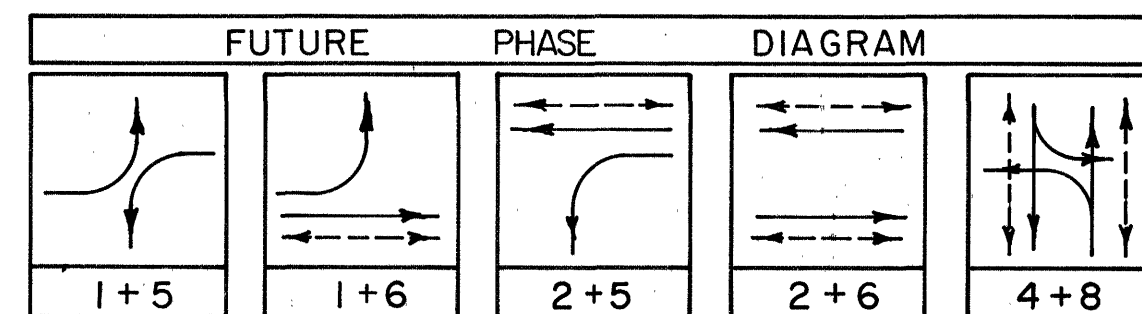
INDUCTIVE LOOP DETECTOR SCHEDULE		
SENSOR	CHANNEL	DETECTOR
1	1	1-02
2	2	1-02
3	1	1-06
4	2	1-06
5	1	1-08
6	2	1-08
7	1	2-04
8	2	2-04
9	1	2-06
10	2	2-06
11	1	3-02
12	2	3-02
13	1	1-04
14	2	2-08
15	3	3-08
16	4	SPARE

* COUNTY FURNISHED
* INTEGRAL CALL HOLD CAPABILITY (0-7SEC)
* INTEGRAL DELAY ADJUSTABLE (0-30 SEC)



- NOTES:
- THE PORTION OF THIS PROJECT CONCERNING WORK AND MATERIAL FOR TRAFFIC SIGNAL AND HIGHWAY LIGHTING SYSTEM AND PAVEMENT MARKERS SHALL CONFORM TO THE STANDARD PLANS AND SPECIFICATIONS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION DATED JAN. 1975, AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
 - INDICATES ILLUMINATED STREET NAME SIGN. SEE SPECIAL PROVISIONS AND DETAIL SHEET.
 - THE ENGINEER SHALL APPROVE DETECTOR LOCATIONS PRIOR TO SAWCUTTING BY CONTRACTOR.
 - PAVEMENT MARKINGS INSTALLATION AND REMOVALS BY THE CONTRACTOR.
 - CONSTRUCT SIDEWALK RAMP PER DETAIL "E" AND ORANGE COUNTY STD. PLAN No. 111.
 - PULLBOXES SHALL BE No. 5 UNLESS NOTED OTHERWISE.
 - PEDESTRIAN INDICATIONS SHALL BE TYPE "C".
 - ALL LUMINAIRES SHALL HAVE INTEGRAL BALLASTS, TYPE IV, PHOTO-ELECTRIC CONTROLS, AND GLARE SHIELDS.
 - CONDUIT SHALL BE 2" UNLESS NOTED OTHERWISE.
 - INSTALL 1/2" CONDUIT WITH PULL WIRE, BETWEEN THE CONTROLLER CABINET AND ADJACENT PULLBOX FOR FUTURE USE.
 - CONTRACTOR SHALL REMOVE AND SALVAGE THE SIGNS INDICATED HEREON. RETURN SIGNS & POSTS TO KATELL A YARD.
 - ALL SIGNAL HEADS SHALL BE 12-INCH.
 - SERVICE CONDUIT TO BE 1/2-INCH WITH 3 #6 CONDUCTORS.
 - SIGNS AND PAVEMENT MARKERS TO BE INSTALLED SHALL BE FURNISHED BY THE COUNTY AND INSTALLED BY THE CONTRACTOR.

REMOVE AND SALVAGE TYPE '90' CONTROLLER AND CABINET. DELIVER TO COUNTY CONSTRUCTION YARD ON FRUIT STREET IN SANTA ANA, CA. FURNISH AND INSTALL A MULTISONICS '820' SYSTEM CONTROLLER WITH DETECTION AS SHOWN IN TYPE 'P' CABINET. REUSE EXISTING ELECTRICAL SERVICE.



DATE	BY	DESCRIPTION	APP'D.
8/8/78	N.S.A.	ADDED REVISION BLACK AND A WIS TO THE SIGNING INSTALLATION SCHEDULE	
5/16/85	N.N.	CONTROLLER CHANGE-OUT	
REVISIONS			

PREPARED BY
R. H. M. P. March 24, 1977

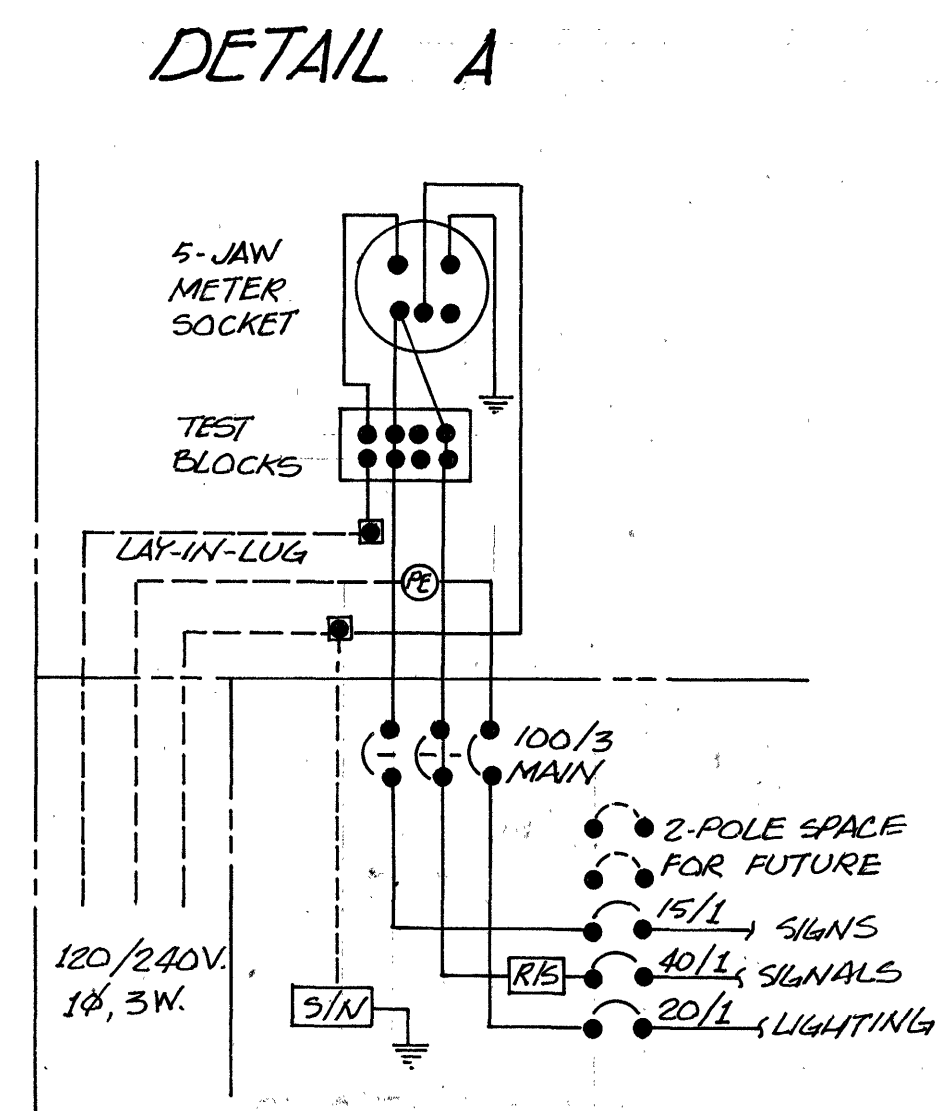
ENVIRONMENTAL MANAGEMENT AGENCY

IRVINE BOULEVARD AND BROWNING AVENUE INTERSECTION PLAN

TRAFFIC SIGNAL MODIFICATION PLAN

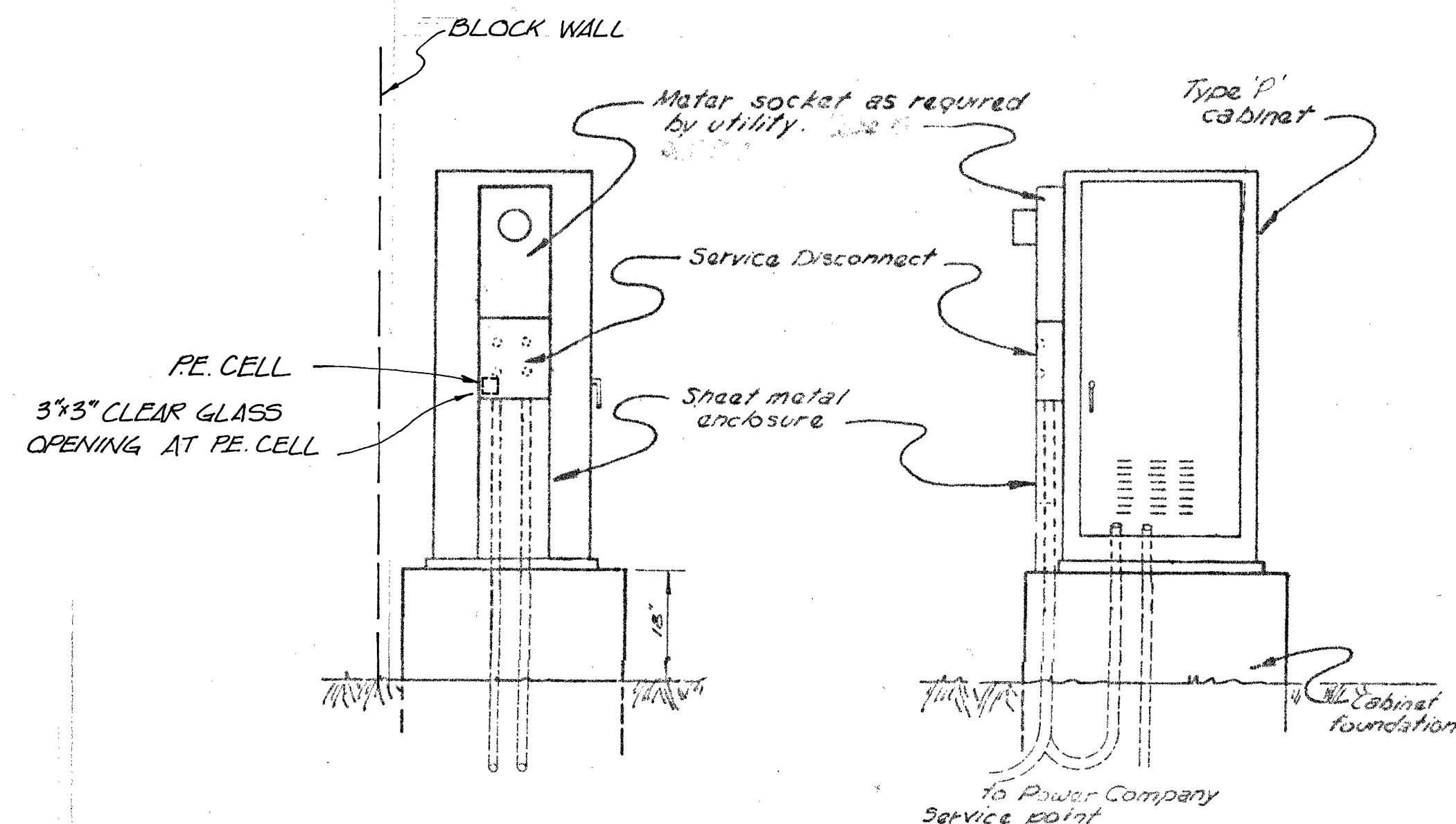
SCALE: 1" = 20'

SHEET 2 OF 3



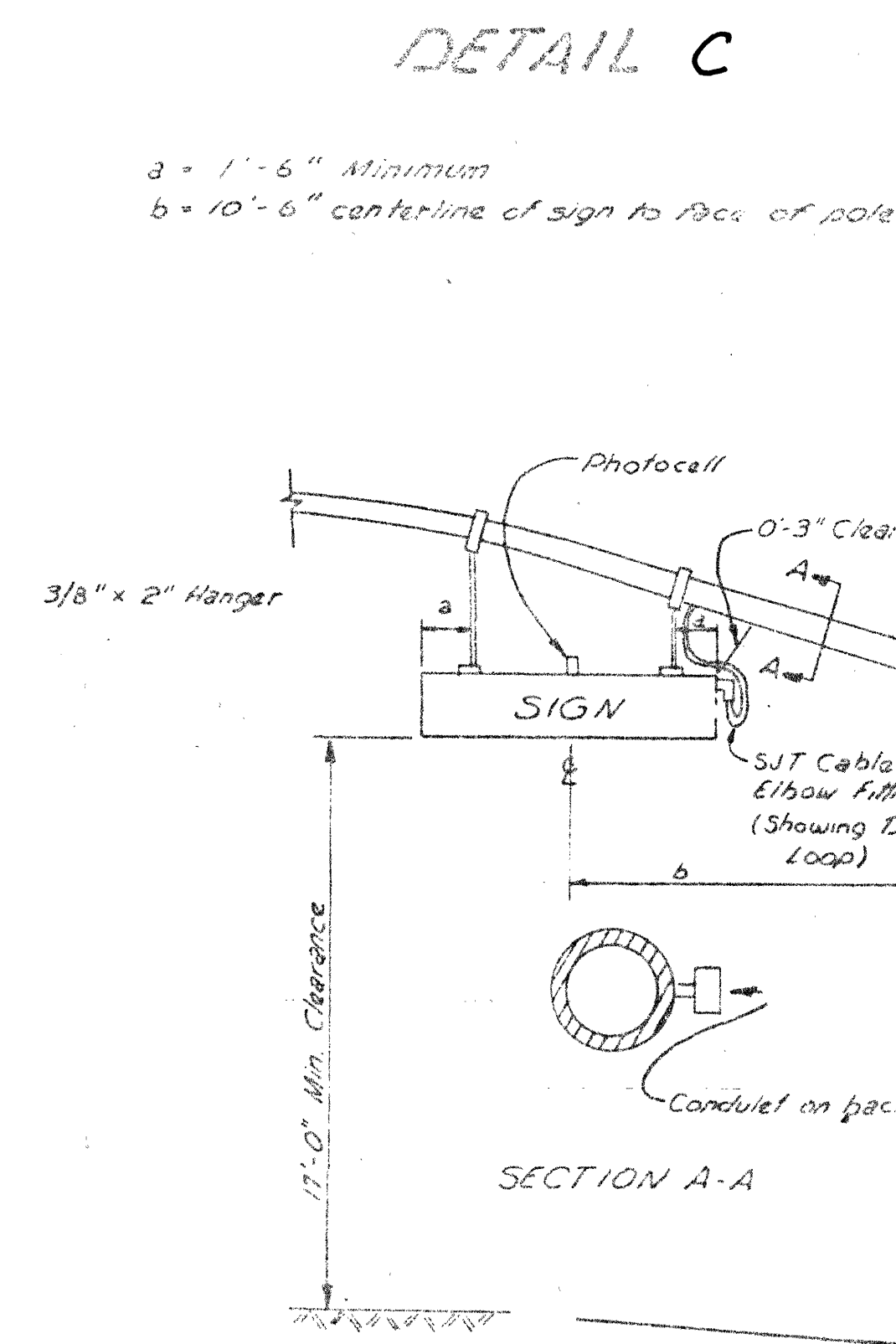
SERVICE EQUIPMENT WIRING DIAGRAM

- NOTES - STREET WORK
1. ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF SEC. 400 OF THE STD SPECIFICATIONS FOR PUBLIC WORKS COMST, DATED 1976, AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
 2. ASPHALT CONCRETE REMOVALS SHALL BE DONE BY SAWCUTTING.
 3. AREA TO BE REMOVED = 2170 S.F.
 4. THE CONTRACTOR SHALL USE THE FOLLOWING PAVEMENT SECTION - 1.25" A.C. ON NATIVE.
 5. THE CONTRACTOR SHALL EXCAVATE AND PAVE THE RECONSTRUCT PAVEMENT SECTION IN TWO PHASES AS SHOWN BELOW AND AS INDICATED IN THE SPECIFICATIONS.
 6. SEE TRAFFIC SIGNAL PLAN (SHT. 2) FOR UTILITIES.

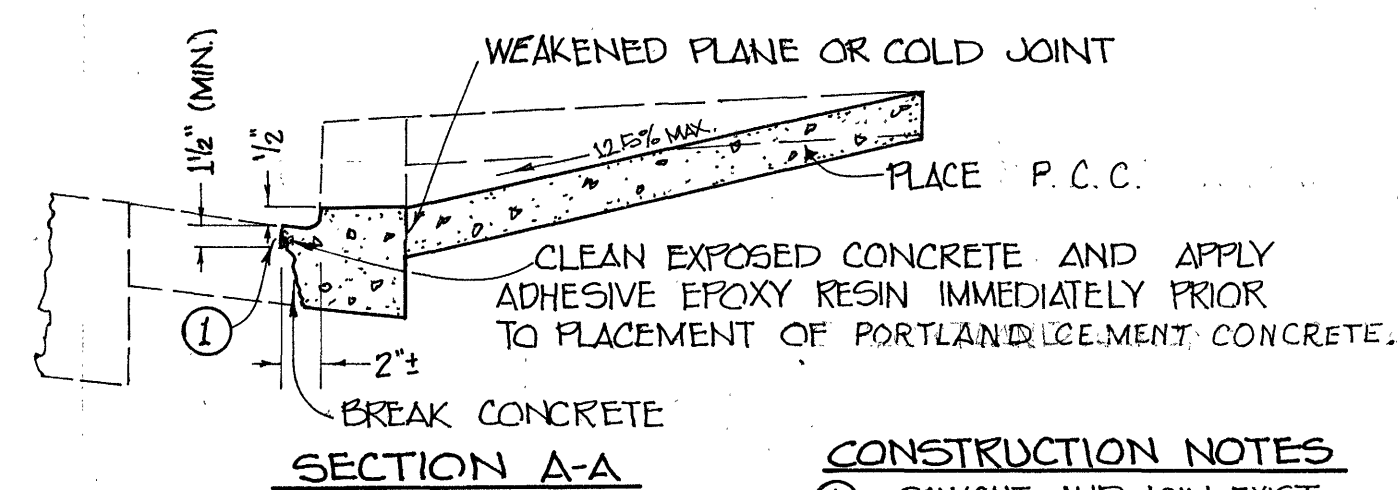
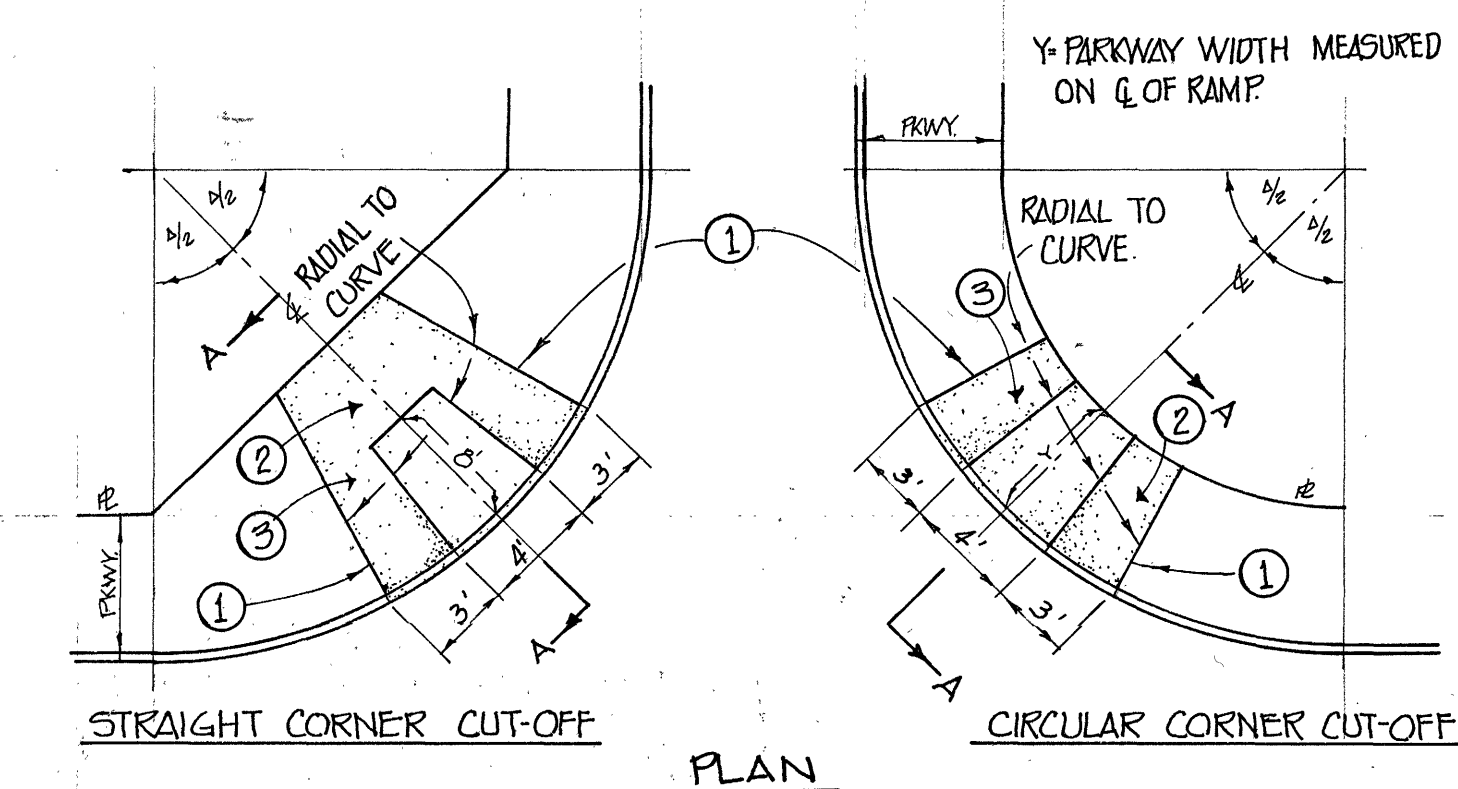


NOTE: ALL SERVICE CABINETS AND SHEET METAL ENCLOSURES SHALL BE PAINTED THE SAME COLOR AS THE CONTROLLER CABINET.

MODIFIED TYPE II SERVICE DETAIL



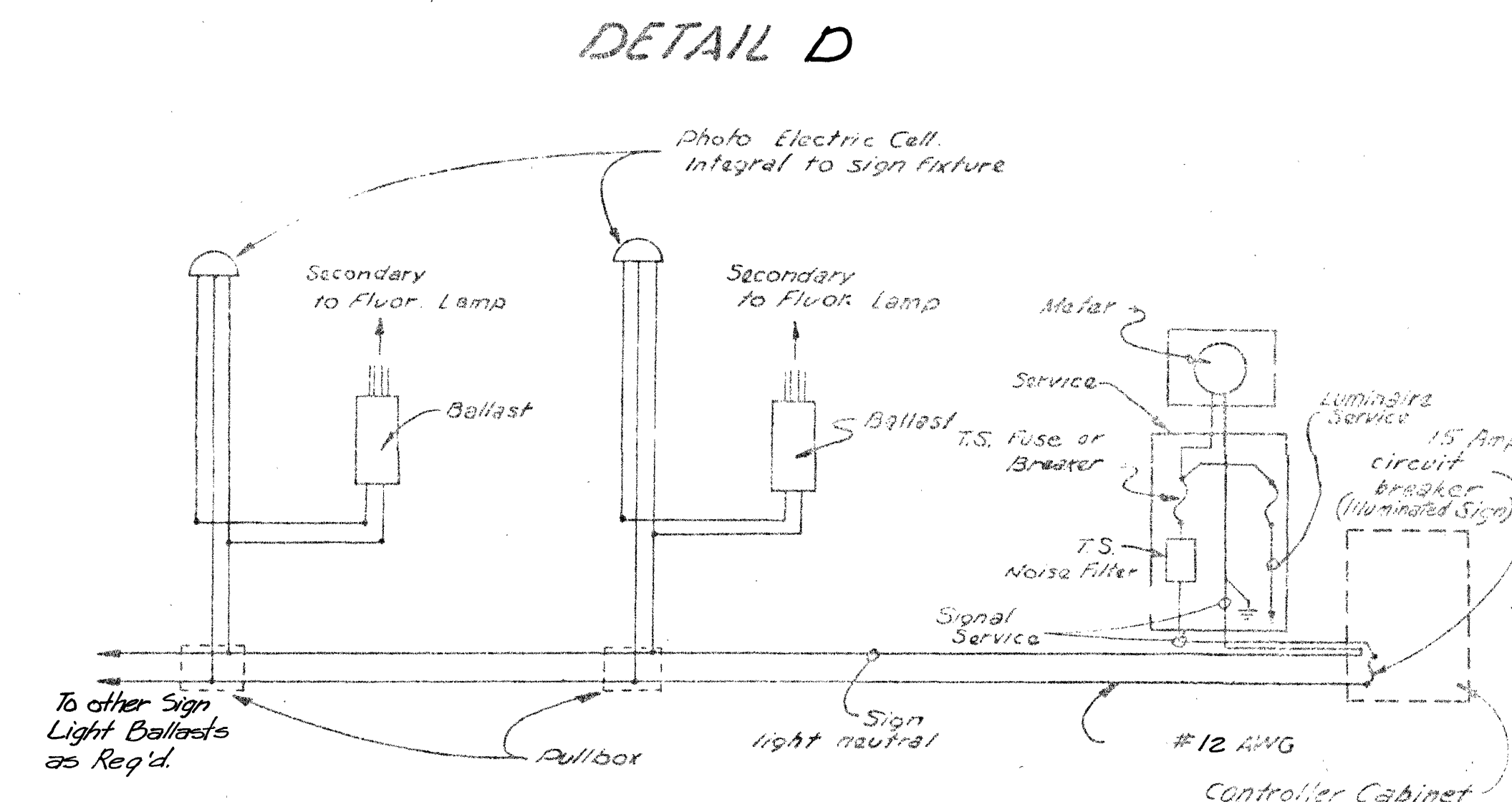
ASSEMBLY OF SIGN COMPONENTS



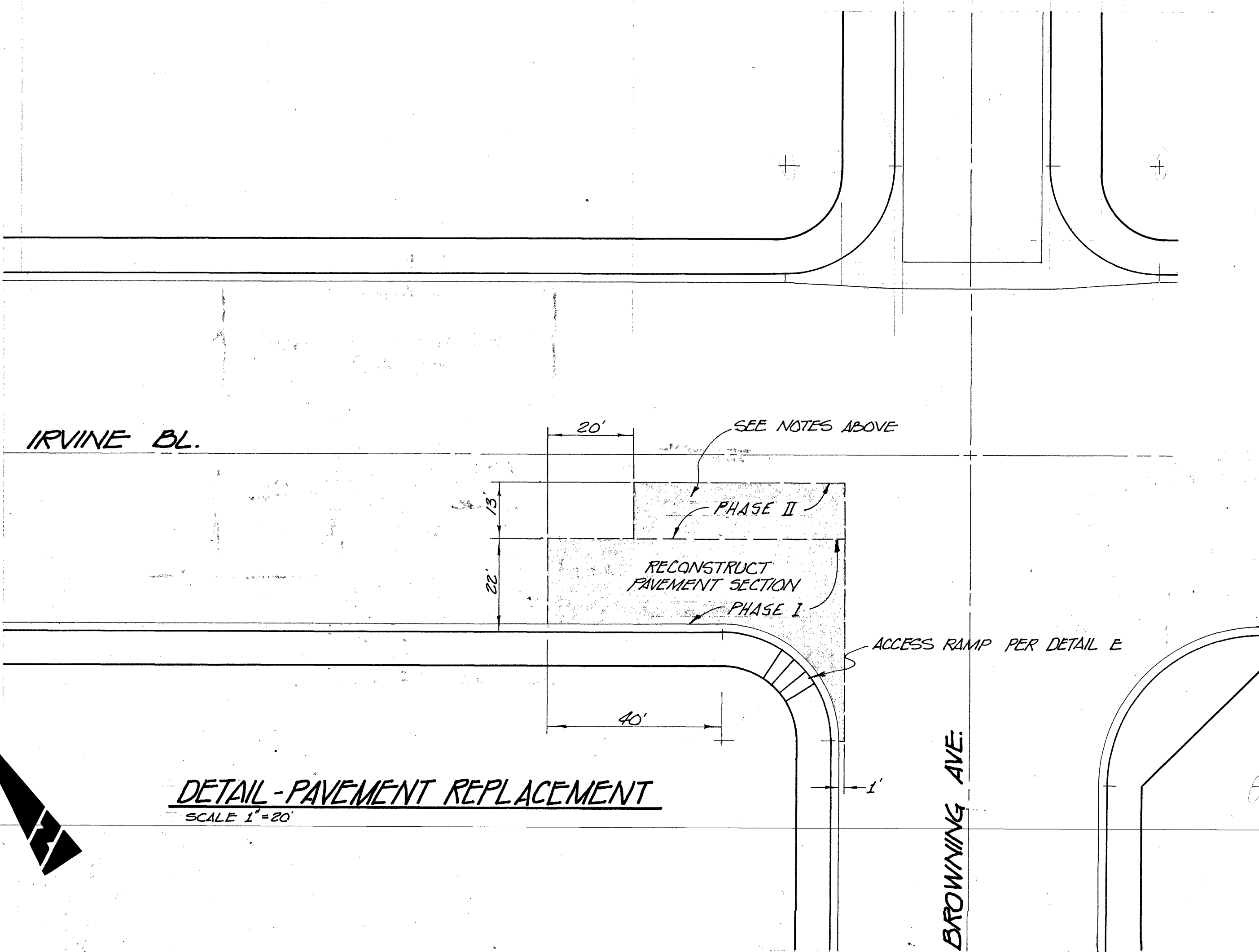
- CONSTRUCTION NOTES
- ①- SAWCUT AND JOIN EXIST.
 - ②- CONST. SIDEWALK ACCESS RAMP
PER DETAIL THIS SHEET.
 - ③- REMOVE CONCRETE.

- NOTES
1. GRADE ON RAMP SHALL NOT EXCEED 12.5% AT CENTERLINE.
 2. ALL EXIST CONCRETE TO BE REMOVED SHALL BE SAWCUT AS DIRECTED AND ANY SIDEWALK DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED.
 3. ACCESS RAMP SHALL BE CONSTRUCTED WITH 4" THICK P.C.C.
 4. RAMPS LOCATED OTHER THAN SHOWN ABOVE SHALL BE APPROVED BY THE ENGINEER.
 5. SEE STD. PLAN 111 FOR SIDEWALK RETURN DETAILS.
 6. SAWCUTS SHALL NOT BE MADE AT FLOWLINE.

SIDEWALK ACCESS RAMP
DETAIL E



WIRING DIAGRAM
INTERNALLY ILLUMINATED STREET NAME SIGN.



DETAIL - PAVEMENT REPLACEMENT
SCALE: 1" = 20'