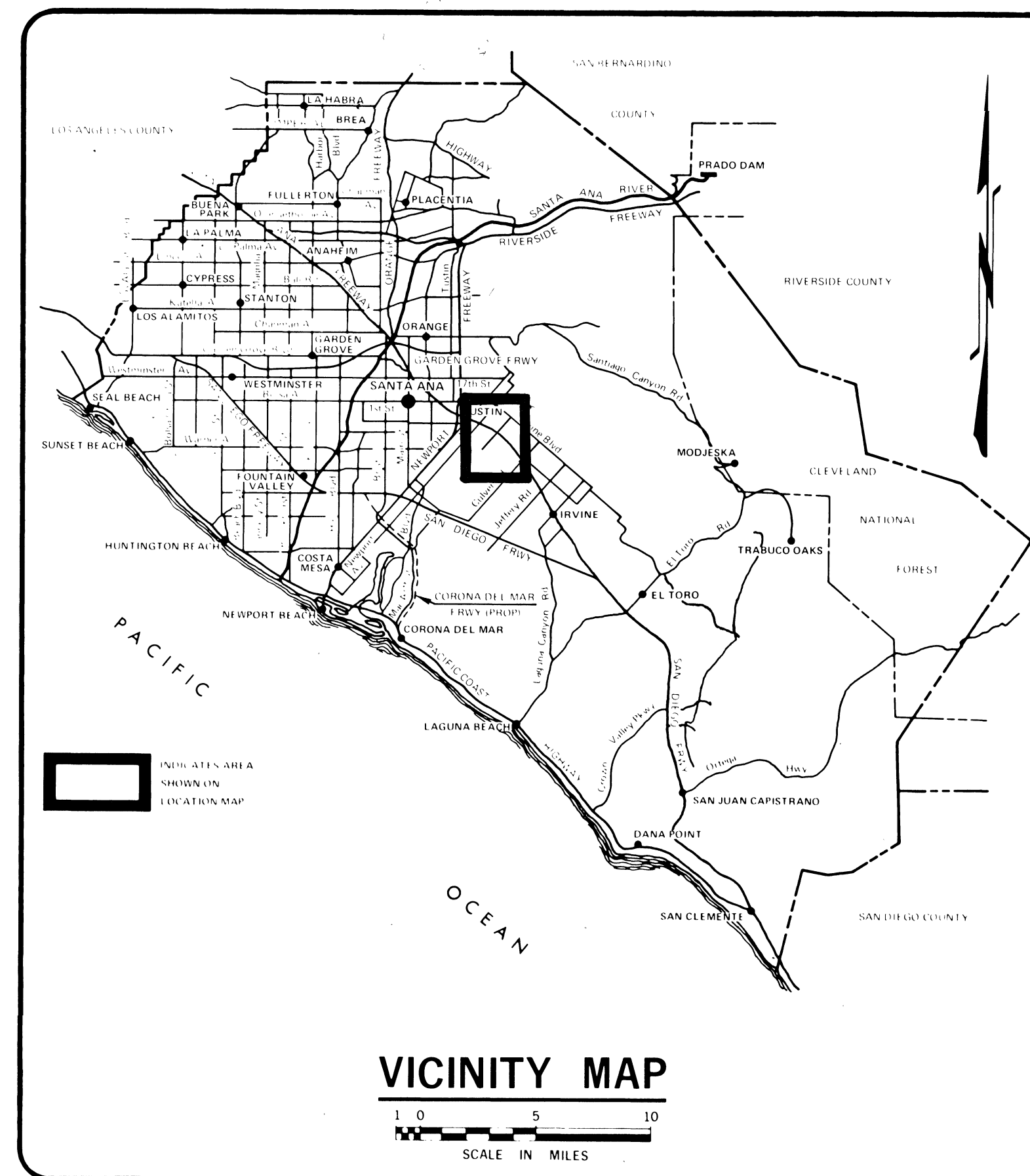


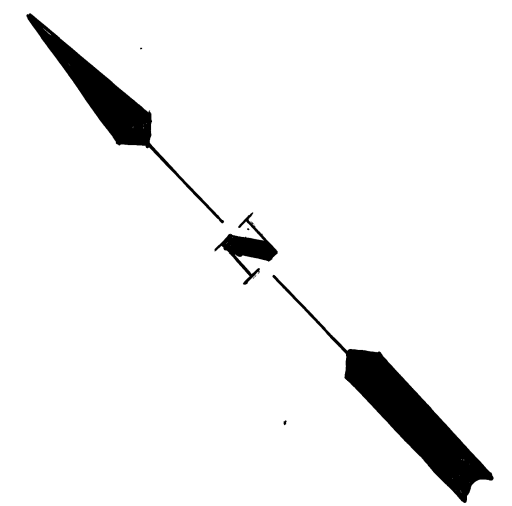


ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY

SANTA ANA, CALIFORNIA
M. STORM, DIRECTOR

PLANS FOR MODIFICATION OF
TRAFFIC SIGNALS
AT
IRVINE BLVD. AND MYFORD RD.

<u>INDEX OF SHEETS</u>	
SHEET	DESCRIPTION
1.	TITLE SHEET
1.	TRAFFIC SIGNAL PLAN
2.	DETAIL SHEET

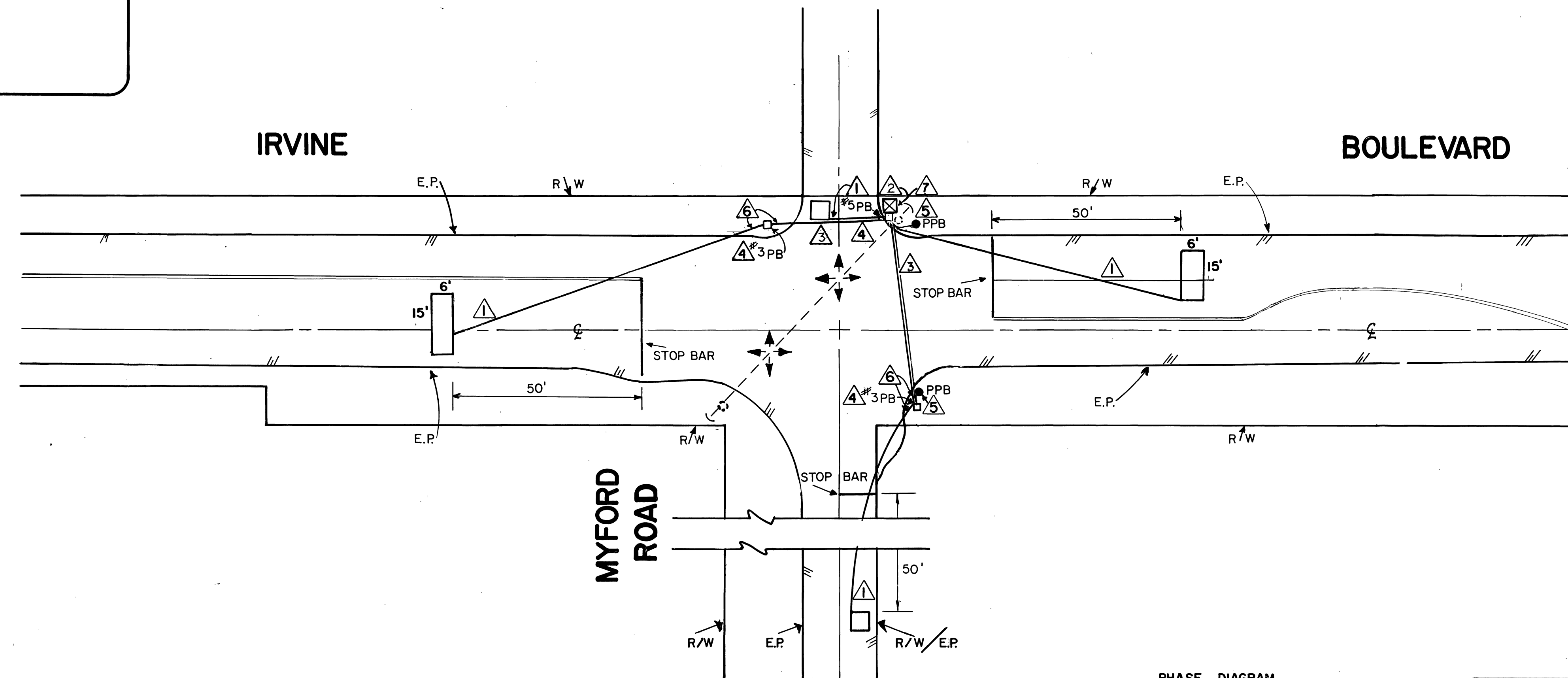


CONSTRUCTION NOTES

1. SAW CUT AND PLACE LOOP VEHICLE DETECTORS
2. CONSTRUCT FOUNDATION AND INSTALL CONTROLLER CABINET.
3. SAW CUT AND PLACE CANOGA 3003 LEAD IN CABLE
4. PLACE PULL BOX
5. INSTALL 3'-10" PPB POST, TYPE 'B' PPB FOR Ø4 FOUNDATION AND WIRING. SEE DETAIL 'J'
6. PLACE 1" CONDUIT FROM E.P. TO PULL BOX
7. COUNTY TO FURNISH FRIOO CONTROLLER AND DETECTOR SENSORS

UTILITY NOTES

- ## I. CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES BEFORE EXCAVATION



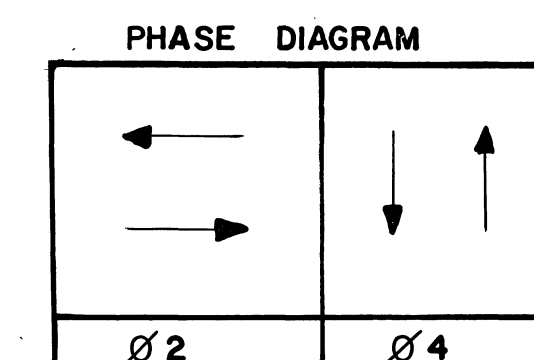
FUNDED BY: TRAFFIC SIGNAL
MAINTENANCE

EMA-DEVELOPMENT

SUBMITTED: Mitsuru Yamada 10/13/82
MITSURU YAMADA

RECOMMENDED: Robert W Voien 10/15/82
ROBERT W. VOIEN RCE 12169
RTE 669

APPROVED: William L. Zaun 10/18/82
WILLIAM L. ZAUN RCE 13525
RTE 667

[illegible]

DRAWN: _____ **D.C.M.**
CHECKED: _____ **J.O.**

SHEET 1 OF 2

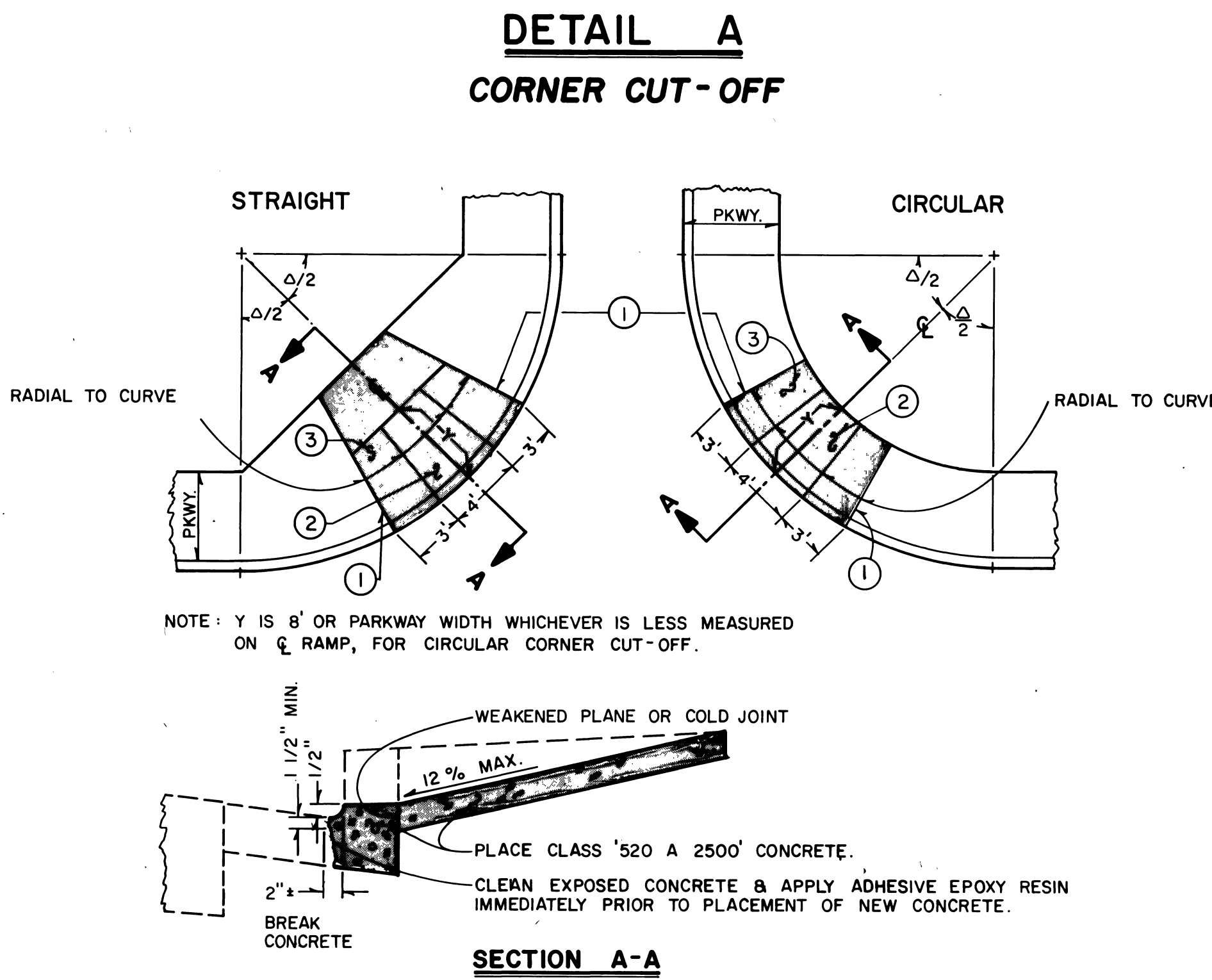
DRAWING NUMBER
E MYFORD

DRAWING NUMBER
1140.2

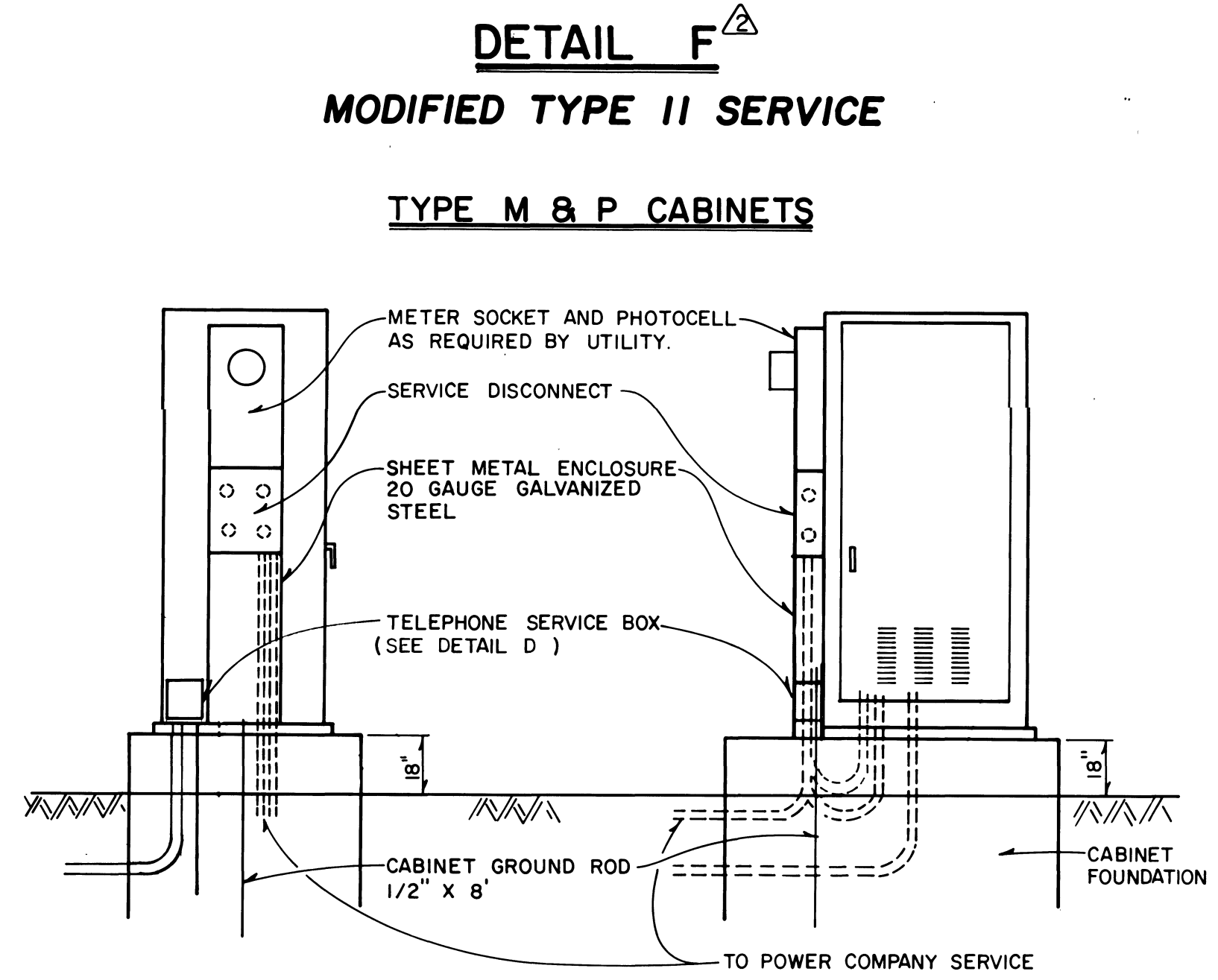
DRAWING NUMBER

DRAWING NUMBER

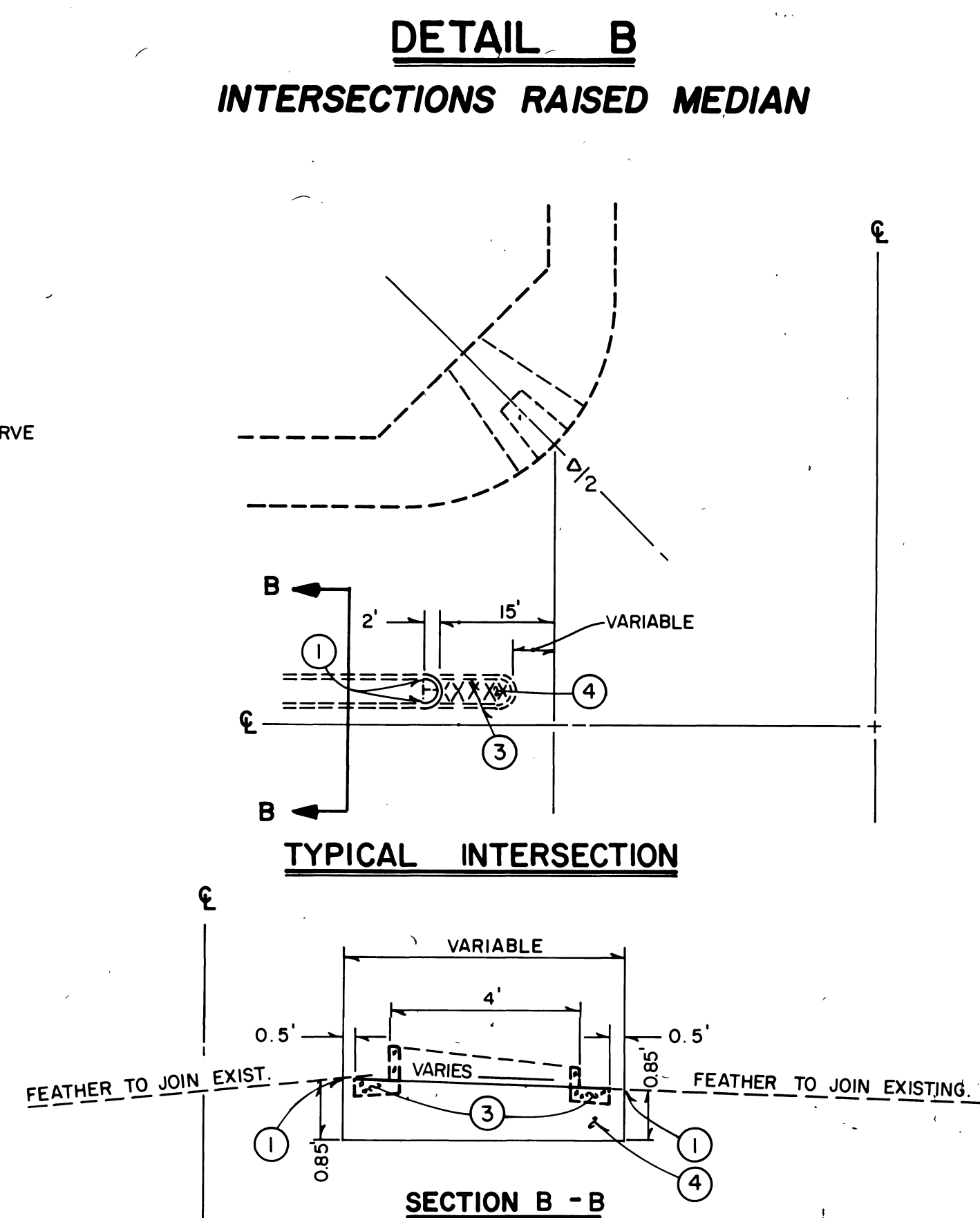
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTERED BY NUMBER 010404
REGISTERED BY NUMBER 010404
REGISTERED BY NUMBER 010404



- NOTES - DETAIL A**
- GRADE ON RAMP SHALL NOT EXCEED 12.5% AT CENTERLINE.
 - ALL EXISTING CONCRETE TO BE REMOVED SHALL BE SAWCUT AS DIRECTED AND ANY EXISTING SIDEWALK THAT IS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH 4" THICK CLASS 520 A 2500' PORTLAND CEMENT CONCRETE.
 - ACCESS RAMP SHALL BE CONSTRUCTED WITH 4" THICK PORTLAND CEMENT CONCRETE.
 - RAMPS LOCATED OTHER THAN SHOWN ABOVE SHALL BE APPROVED BY THE ENGINEER.
 - SEE ORANGE COUNTY STD. PLAN III FOR SIDEWALK RETURN AND ACCESS RAMP DETAILS.
 - SAWCUTS SHALL NOT BE MADE AT FLOWLINE.
 - IN SPANDREL AREAS, GUTTER SHALL BE SAWCUT AND THE CURB REMOVED AS SHOWN ABOVE. IN NON-SPANDREL AREAS HAVING GUTTERS 2'-0" OR LESS IN WIDTH, THE ENTIRE GUTTER SHALL BE REMOVED.

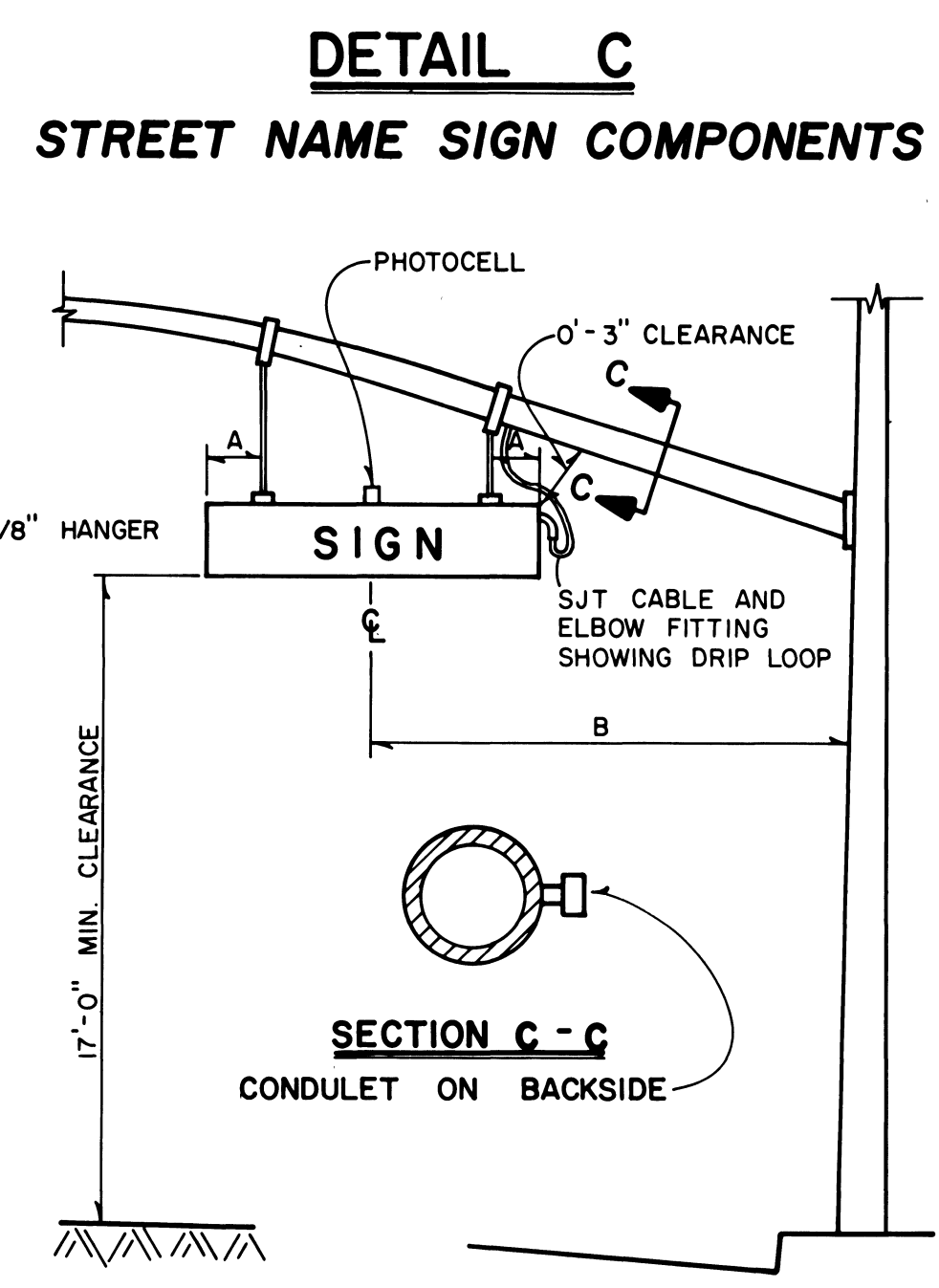
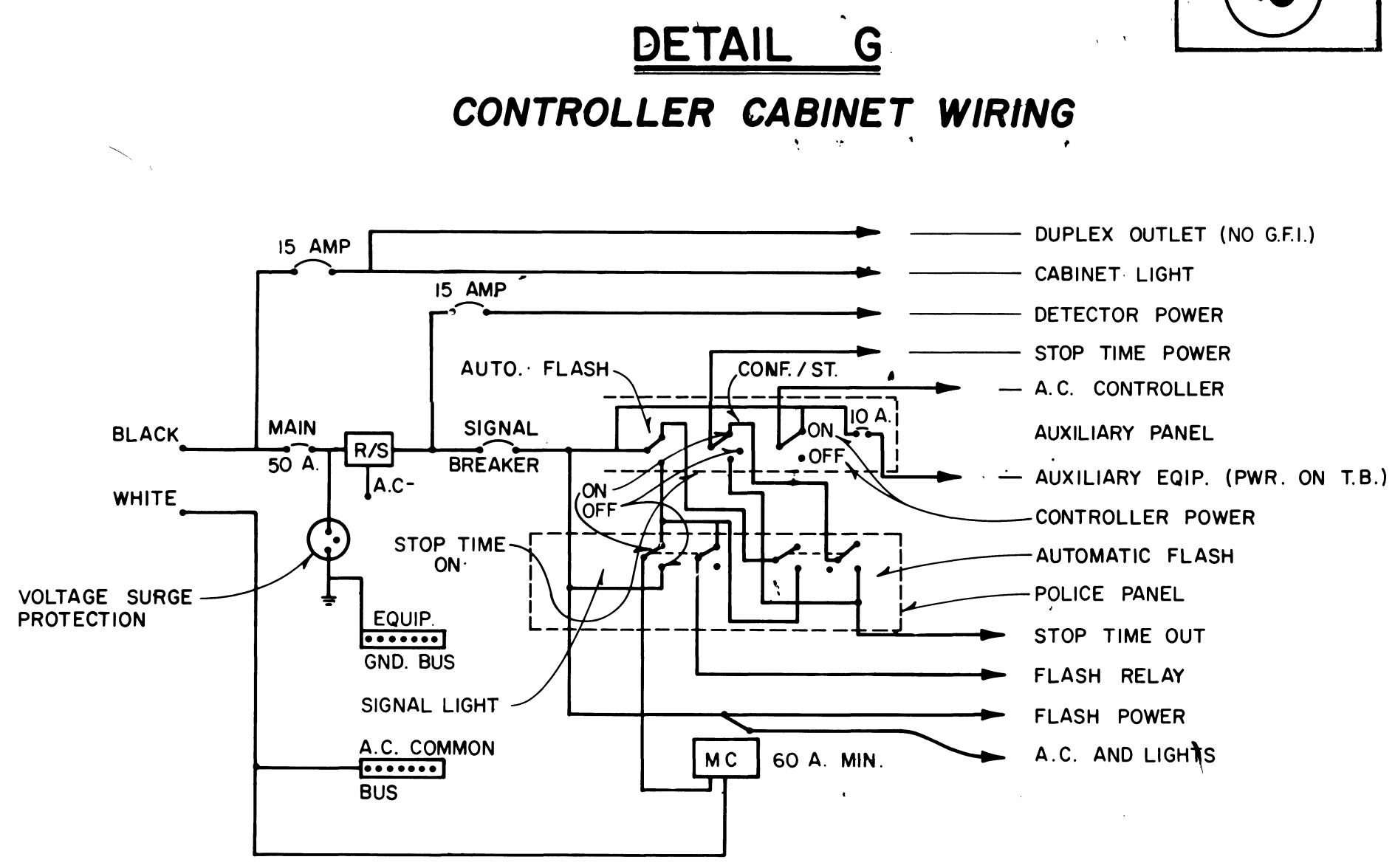
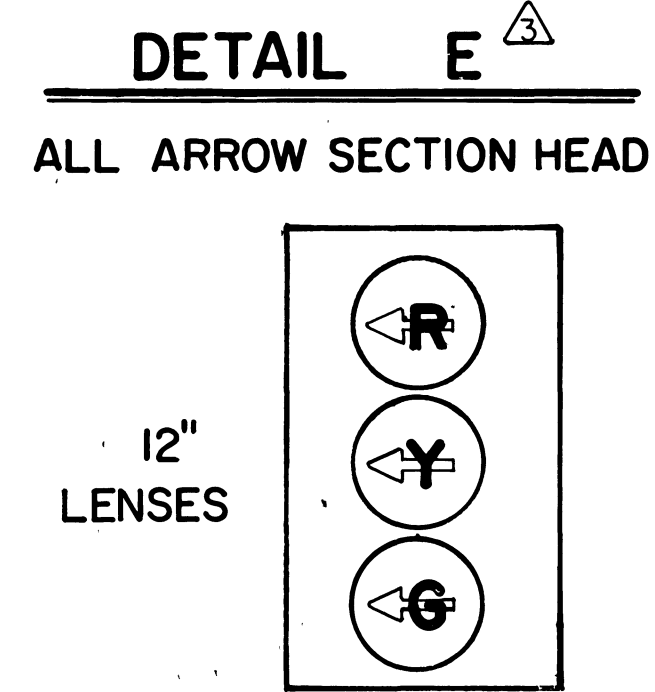


- NOTE - DETAIL F**
- ALL SERVICE CABINETS AND SHEET METAL ENCLOSURES SHALL BE PAINTED THE SAME COLOR AS THE CONTROLLER CABINET.

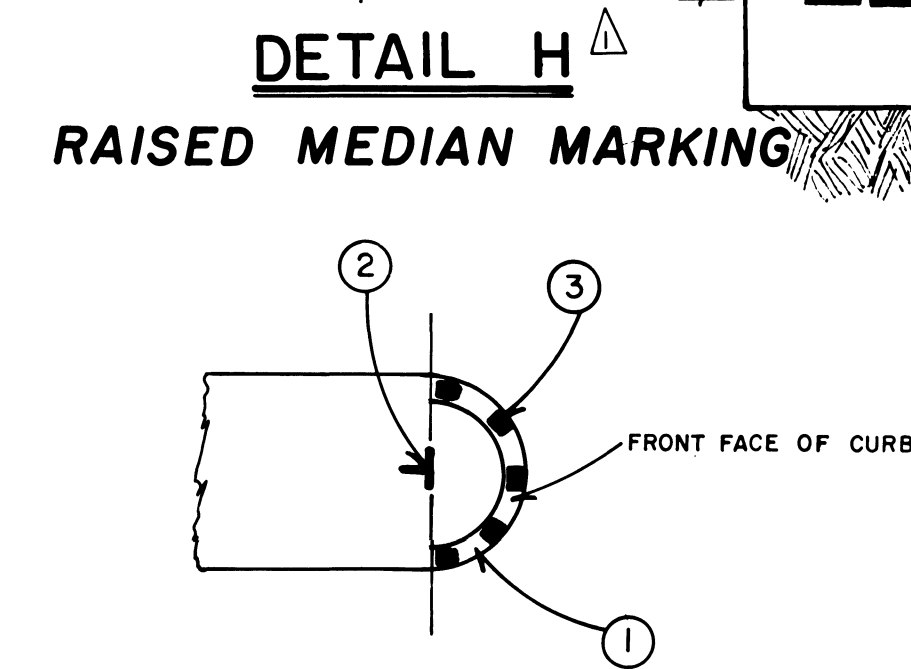
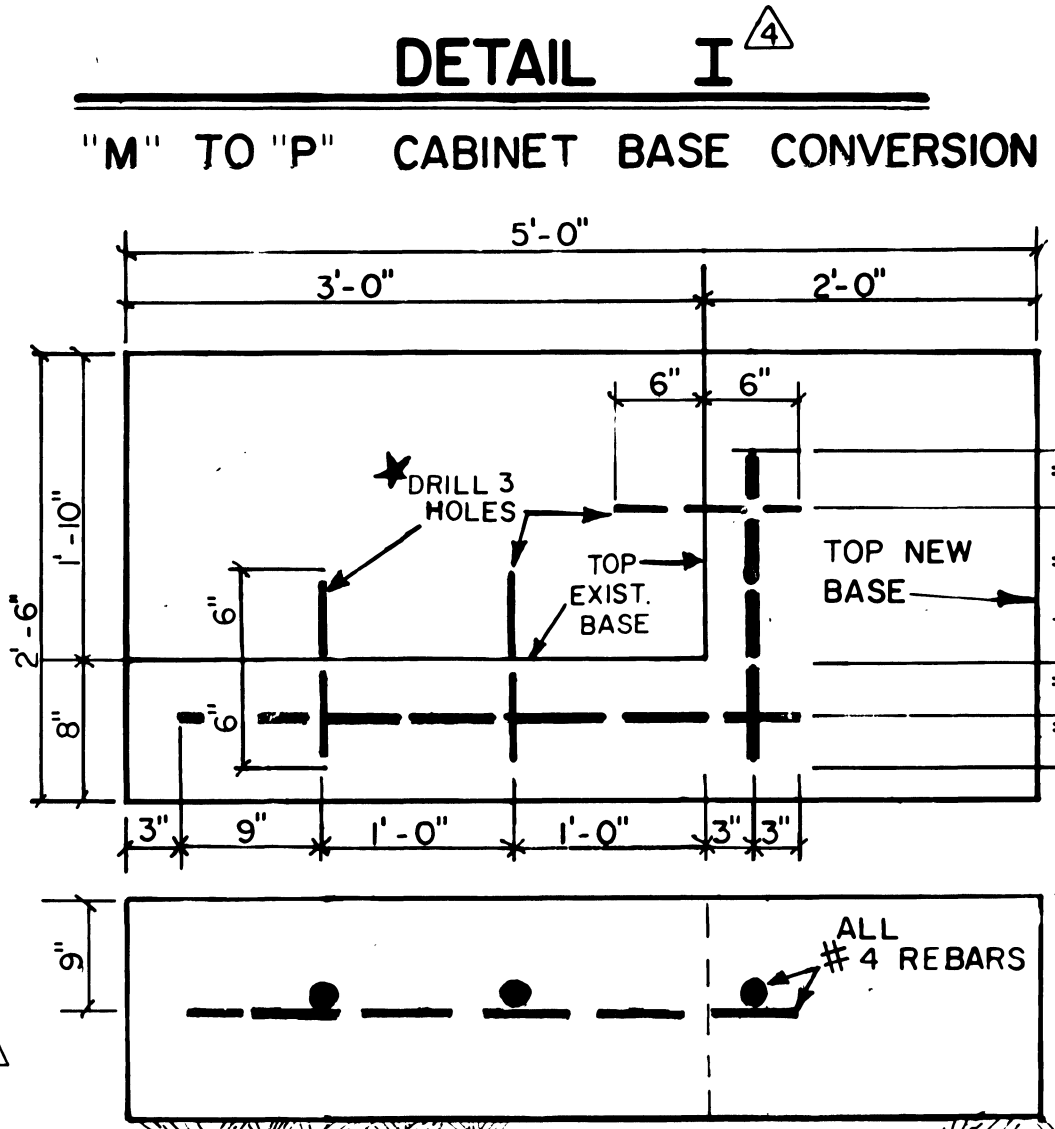


CONSTRUCTION NOTES - DETAILS A & B

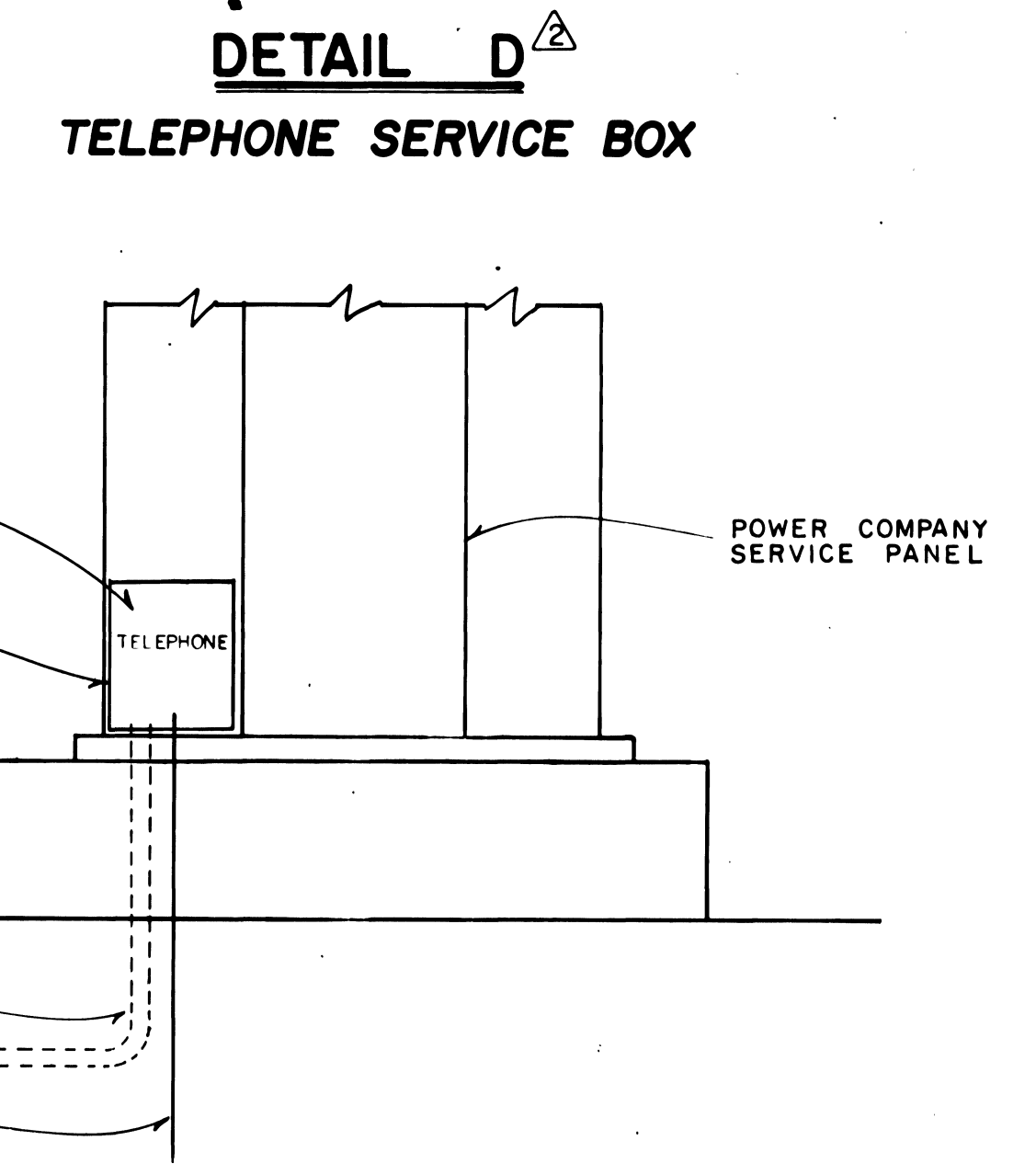
- SAWCUT AND JOIN EXISTING
- CONSTRUCT SIDEWALK ACCESS RAMP.
- REMOVE CONCRETE
- CONSTRUCT 0.85' AC OVER NATIVE SOIL.



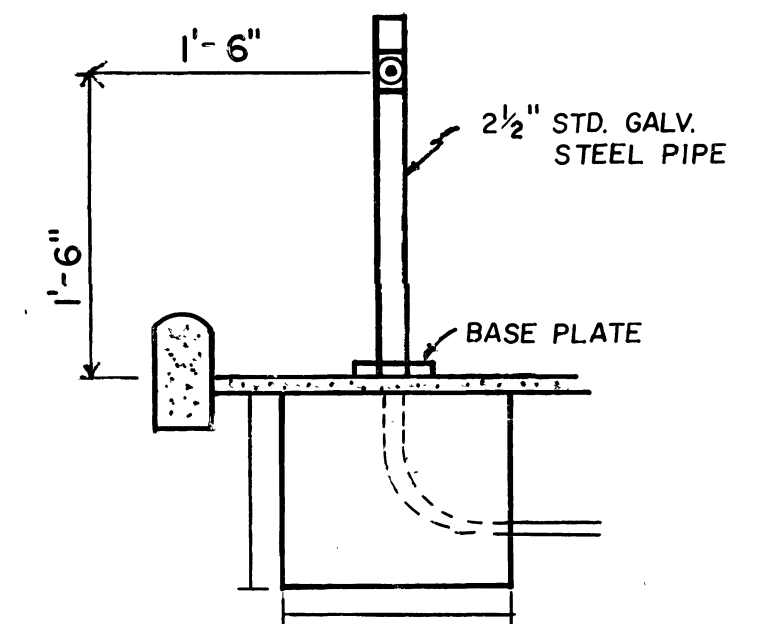
- NOTES - DETAIL C**
- 1'-6" MINIMUM
 - 10'-6" CENTERLINE OF SIGN TO FACE OF POLE



- NOTES - DETAIL H**
- PAINT MEDIAN NOSE WITH WHITE "SCOTCHLITE" BRAND REFLECTIVE LIQUID, CODE 7216 OR EQUAL.
 - INSTALL FLEXIBLE VERTICAL TYPE K MARKER, R7, R10 or TYPE N-1 ON TELESPAR POST AS INDICATED ON PLAN.
 - INSTALL YELLOW REFLECTIVE MARKING ON FRONT FACE OF MEDIAN CURB NOSE - 5 STRIPS (4" x 6") OF 3M #5871 HIGH INTENSITY GRADE SCOTCH LITE HIGH TACK ADHESIVE OR EQUAL.



DETAIL J
PPB FOUNDATION



12-20-79 ADDED DETAIL H		ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
12-15-81 ADDED DETAIL D REVISED DETAIL F		DETAIL SHEET	
2-23-82 DETAIL E ALL ARROWS		IRVINE AND MYFORD	
4-20-82 ADDED DETAIL I			
MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF <i>M. J. Myford</i>
DESIGNED <i>M.Y.</i>		SCALE	DATE
DRAWN <i>A.J.M.</i>		CHECKED <i>R.H.S.</i>	DWG. NO.
		AS SHOWN	2/23/82
		SHEET 2 of 2	

NOTE: USE APPLICABLE DETAILS ONLY.

IRVINE/MYFORD
DRAWING NUMBER
1160
DRAWING NUMBER
1160
DRAWING NUMBER
1160

CONDUCTOR		TABLE								
AWG	CIRCUIT	1	2	3	4	5	6	7	8	9
NO 14	01									
	02	3	3						3	
	04	3	3	3	3				6	
	05									
	06									
	08			3	3	3			3	
	02P			2					4	
	04P	2	2						4	
	06P	2	2	2	2	2			4	
	08P			2	2	2			2	
	02PFB/BPB			1/1					1/1	
	04PFB/BPB	1	1						2/1	
	06PFB/BPB	1/1	1/1	1	1	1			2/1	
	08PFB/BPB			1/1	1/1	1/1			1/1	
NO 10	PPB COMM	1	1	1	1	1			2	
	ISNS	1	1	1	1	1			2	
	SPARES	3	3	3	3	3			6	
	TOTAL	18	18	25	18	18			49	
CABLE	LUMINAIRES	2	2	2	2	2			4	
	SIG. COMM	1	1	1	1	1			2	
	TOTAL	3	3	3	3	3			6	
4-18	1-01									
	1-06									
	2-06									
	1-05									
	1-02									
	2-02									
	1-08									
	1-04									
TOTAL		3	4	1	4				8	

2 PR 19	INTERCONNECT.									
	CONDUIT SIZE	2"	2"	2 1/2"	2"	2 1/2"			3 1/2"	
	BPB = BIKE PUSH BUTTON									

GENERAL NOTES

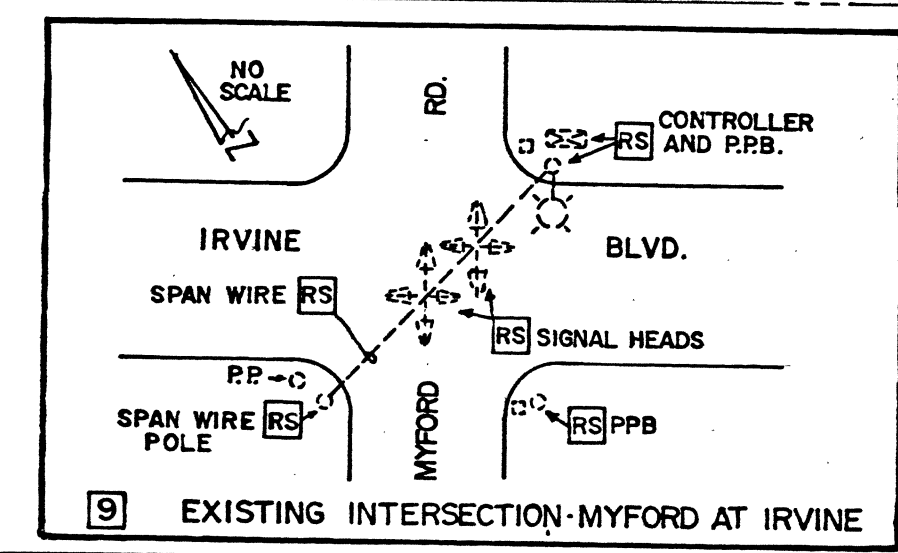
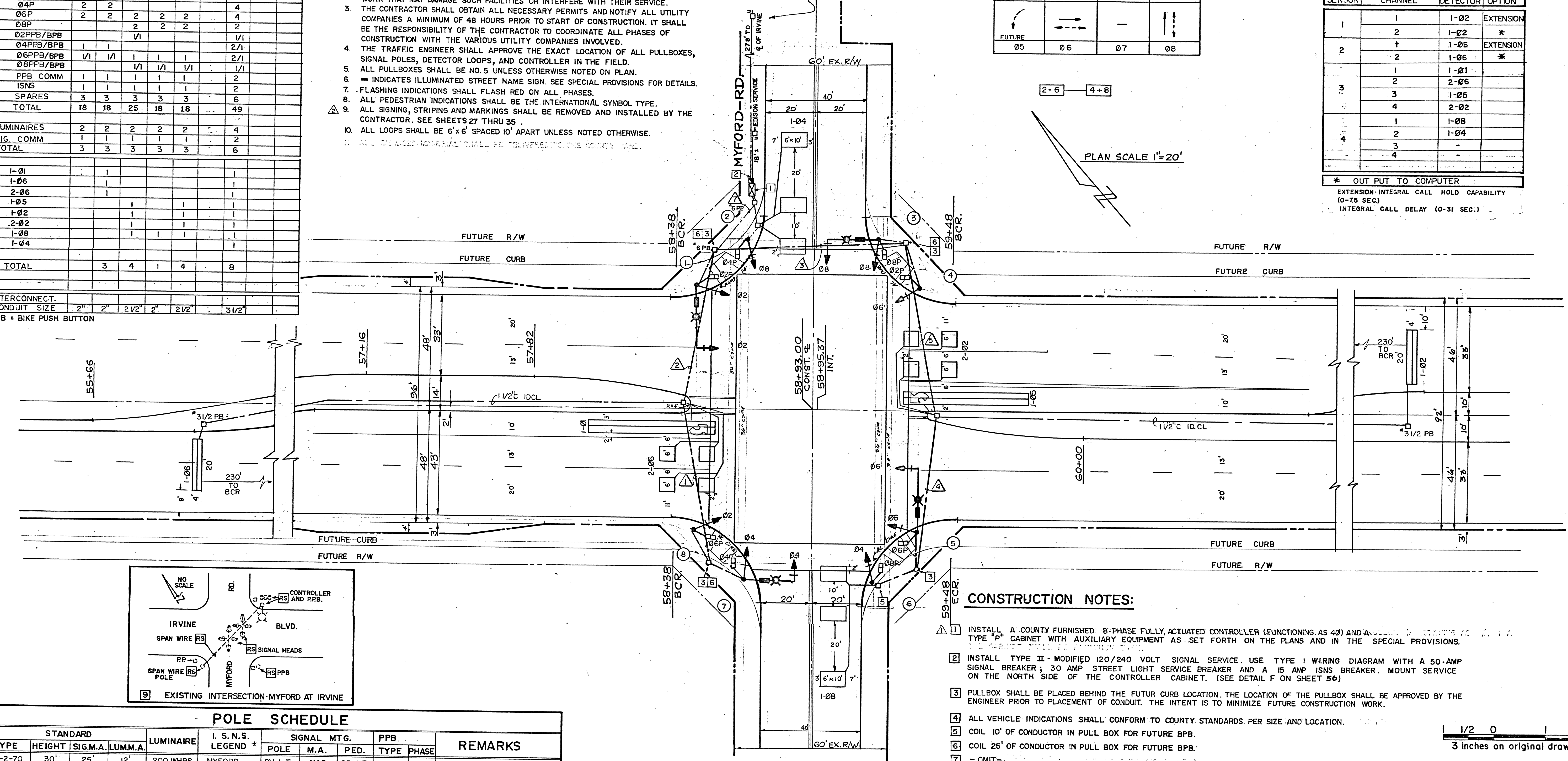
- ALL WORK, MATERIAL AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIF., DEPT. OF TRANSPORTATION, STANDARD PLANS AND STANDARD SPECIFICATIONS DATED 1981, AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
- UTILITIES SHOWN ON THESE PLANS ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. THE CONTRACTOR, HOWEVER, IS REQUIRED TO ASCERTAIN THE EXACT LOCATION OF UNDERGROUND FACILITIES PRIOR TO DOING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL PHASES OF CONSTRUCTION WITH THE VARIOUS UTILITY COMPANIES INVOLVED.
- THE TRAFFIC ENGINEER SHALL APPROVE THE EXACT LOCATION OF ALL PULLBOXES, SIGNAL POLES, DETECTOR LOOPS, AND CONTROLLER IN THE FIELD.
- ALL PULLBOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED ON PLAN.
- INDICATES ILLUMINATED STREET NAME SIGN. SEE SPECIAL PROVISIONS FOR DETAILS.
- FLASHING INDICATIONS SHALL FLASH RED ON ALL PHASES.
- ALL PEDESTRIAN INDICATIONS SHALL BE THE INTERNATIONAL SYMBOL TYPE.
- ALL SIGNING, STRIPING AND MARKINGS SHALL BE REMOVED AND INSTALLED BY THE CONTRACTOR. SEE SHEETS 27 THRU 35.
- ALL LOOPS SHALL BE 6'x6' SPACED 10' APART UNLESS NOTED OTHERWISE.
- ALL OTHER NOTES SHALL BE FOLLOWED TO THE LETTER.

INTERCONNECT NOTE
INSTALL 2 PR 19 CABLE IN 1 1/2" CONDUIT WITH RISER TO TELEPHONE POLE #552727H. CONTACT MARY ARNOLD AT 551-0009 48 HOURS PRIOR TO WORK FOR COORDINATION WITH P.T.T.

PHASE		DIAGRAM	
01	02	03	04
FUTURE			
FUTURE			
05	06	07	08

SENSOR TABLE			
SENSOR	CHANNEL	DETECTOR	OPTION
1	1	1-02	EXTENSION
	2	1-02	*
2	1	1-06	EXTENSION
	2	1-06	*
3	1	1-01	
	2	2-06	
	3	1-05	
	4	2-02	
4	1	1-08	
	2	1-04	
	3	-	
	4	-	

* OUT PUT TO COMPUTER
EXTENSION-INTGAL CALL HOLD CAPABILITY (0-75 SEC.)
INTGAL CALL DELAY (0-31 SEC.)



CONSTRUCTION NOTES:

- INSTALL A COUNTY FURNISHED 8-PHASE FULLY ACTUATED CONTROLLER (FUNCTIONING AS 40) AND A COUNTY FURNISHED TYPE "P" CABINET WITH AUXILIARY EQUIPMENT AS SET FORTH ON THE PLANS AND IN THE SPECIAL PROVISIONS.
- INSTALL TYPE II - MODIFIED 120/240 VOLT SIGNAL SERVICE. USE TYPE I WIRING DIAGRAM WITH A 50-AMP SIGNAL BREAKER; 30 AMP STREET LIGHT SERVICE BREAKER AND A 15 AMP ISNS BREAKER. MOUNT SERVICE ON THE NORTH SIDE OF THE CONTROLLER CABINET. (SEE DETAIL F ON SHEET 56)
- PULLBOX SHALL BE PLACED BEHIND THE FUTUR CURB LOCATION. THE LOCATION OF THE PULLBOX SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF CONDUIT. THE INTENT IS TO MINIMIZE FUTURE CONSTRUCTION WORK.
- ALL VEHICLE INDICATIONS SHALL CONFORM TO COUNTY STANDARDS PER SIZE AND LOCATION.
- COIL 10' OF CONDUCTOR IN PULL BOX FOR FUTURE BPB.
- COIL 25' OF CONDUCTOR IN PULL BOX FOR FUTURE BPB.
- OMIT -
- ALL SALVAGED MATERIAL SHALL BE STOCKPILED FOR PICKUP BY COUNTY FORCES.
- SALVAGE ALL EXISTING EQUIPMENT AS NOTED, REMOVE CONDUCTORS AND ABANDON CONDUIT IN PLACE AS DIRECTED BY THE ENGINEER.

1/2 0 1 2
3 inches on original drawing

POLE SCHEDULE											
	STANDARD			LUMINAIRE	I. S. N. S. LEGEND *	SIGNAL MTG.			PPB		REMARKS
	TYPE	HEIGHT	SIG. M. A.			POLE	M. A.	PED.	TYPE	PHASE	
1	19-2-70	30'	25'	12'	200 WHPS	MYFORD	SV-I-T	MAS	SP-I-T	B 4	
2	1A	10'					TV-I-T				
3	17-4-70	30'	20'	12'	200 WHPS	IRVINE BLVD.	SV-I-T	MAS	SP-I-T	B 2	
4	1A	10'					TV-I-T				
5	19-2-70	30'	25'	12'	200 WHPS	MYFORD	SV-I-T	MAS	SP-I-T	B 8	
6	1A	10'					TV-I-T				
7	17-4-70	30'	20'	12'	200 WHPS	IRVINE BLVD	SV-I-T	MAS	SP-I-T	B 6	
8	1A	10'					TV-I-T				

*ISNS. SHALL BE PER COUNTY STANDARD.

PLANS PREPARED BY:
Basmacıyan-Darnell, Inc.
DESIGN ENGINEER R. C. E. No. 22330 DATE 7-1-83
4262 CAMPUS DR. SUITE B-1
NEWPORT BEACH, CA.
(714) 549-9940

8-12-83	COUNTY SUPPLIED CONTROLLER
8-12-83	PEDESTAL SYMBOL TYPE
8-12-83	639 INTERCONNECT CABLE
8-12-83	STOCKPILE SALVAGED EQUIP
11-4-83	POLE MODIFICATION
11-8-83	TELEPHONE INTERCONNECT CONDUCTOR CHANGE

ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY

TRAFFIC SIGNAL
INSTALLATION

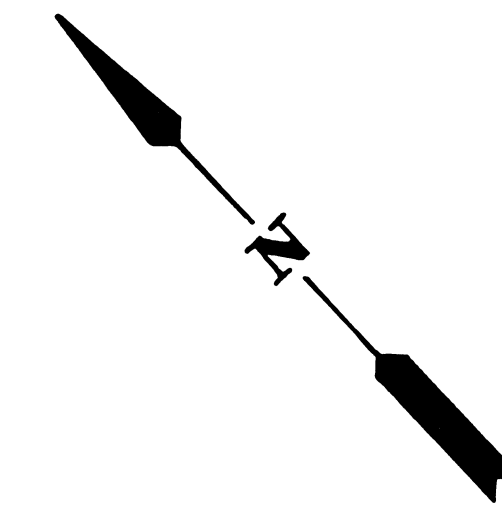
IRVINE BOULEVARD
AND
MYFORD ROAD

MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF	DATE	SHEET
REVISIONS					
DESIGNED	7-1-83				
DRAWN	7-1-83				
CHECKED	7-1-83				
SCALE	DATE	DWG. NO.			
AS SHOWN					

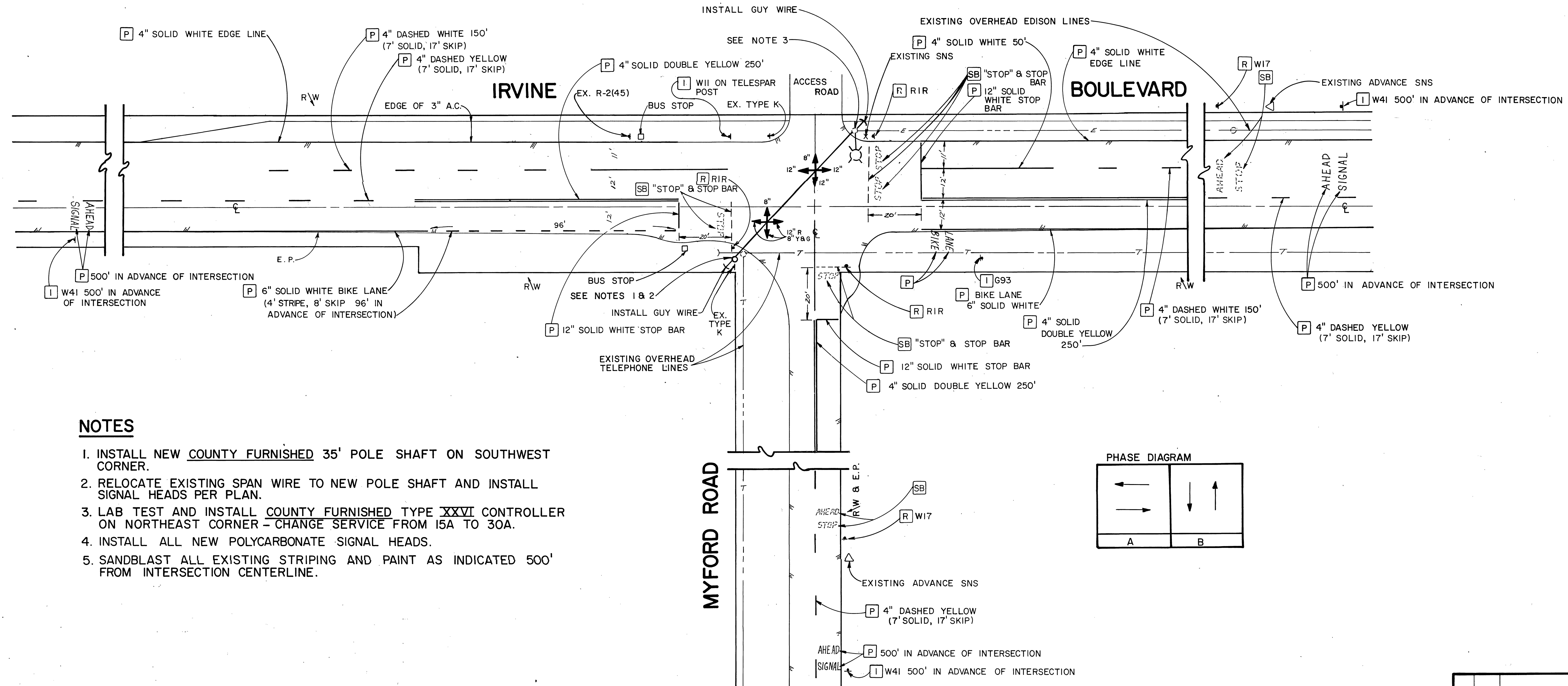
DR. 3 (13946)

SIGNING LEGEND

- | | |
|---|-----------------------|
| R | REMOVE SIGN AND POST |
|  | EDGE OF TRAVELED WAY |
| I | INSTALL SIGN AND POST |
| P | PAINT |
| SB | SANDBLAST |



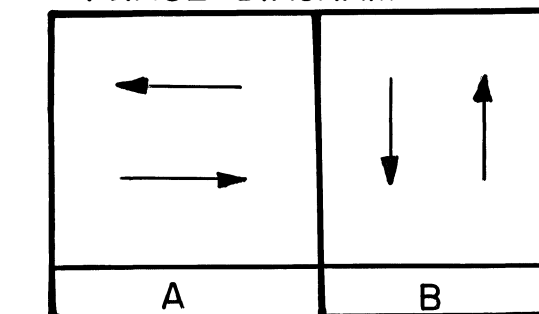
SCALE 1" = 20'



NOTES

1. INSTALL NEW COUNTY FURNISHED 35' POLE SHAFT ON SOUTHWEST CORNER.
2. RELOCATE EXISTING SPAN WIRE TO NEW POLE SHAFT AND INSTALL SIGNAL HEADS PER PLAN.
3. LAB TEST AND INSTALL COUNTY FURNISHED TYPE XXVI CONTROLLER ON NORTHEAST CORNER - CHANGE SERVICE FROM 15A TO 30A.
4. INSTALL ALL NEW POLYCARBONATE SIGNAL HEADS.
5. SANDBLAST ALL EXISTING STRIPING AND PAINT AS INDICATED 500' FROM INTERSECTION CENTERLINE.

PHASE DIAGRAM



Drawer 7- 13275
 Construction Plan Irvine Blvd. Trf. Sig.
 Sheet 1 of 1
 Red * 24.1
 Type ** Sepia

			ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY			SHEET 1 of 1
			TEMPORARY TRAFFIC SIGNAL PLAN			
			IRVINE BOULEVARD AT MYFORD ROAD			
I	6-19-80	ADDED SIGNING AND STRIPING				
MARK	DATE	DESCRIPTION			PREPARED UNDER SUPERVISION OF	
REVISIONS						
DESIGNED R.S.		SCALE		DATE	DWG. NO.	
DRAWN D.J.		AS SHOWN		5-27-80		
		CHECKED R.S.				

DR#7 (13275)