

ORANGE COUNTY

SANTA ANA, CALIFORNIA

H.G. OSBORNE, DIRECTOR

PLANS FOR CONSTRUCTION OF

TRAFFIC SIGNALS

AT THE INTERSECTION OF

AT

DODGE AVENUE

AND AT

LA COLINA DRIVE

FUNDED BY: HIGHWAY USERS TAX

EMA-DEVELOPMENT

SUBMITTED: Robert W. Join 5-19-77
SECTION CHIEF RCE 12169

Robert W. Owen 5-19
SECTION CHIEF RCE 12169

RECOMMENDED: 7/1/23 5/19/23
DIVISION MANAGER RCE 14718

ED: AKA 5/19/77
DIVISION MANAGER RCE 14718

APPROVED: C. R. Nelson 5-23-77
ASSISTANT DIRECTOR RCE 13142

ASSISTANT DIRECTOR RCE 13142

PLANS PREPARED BY



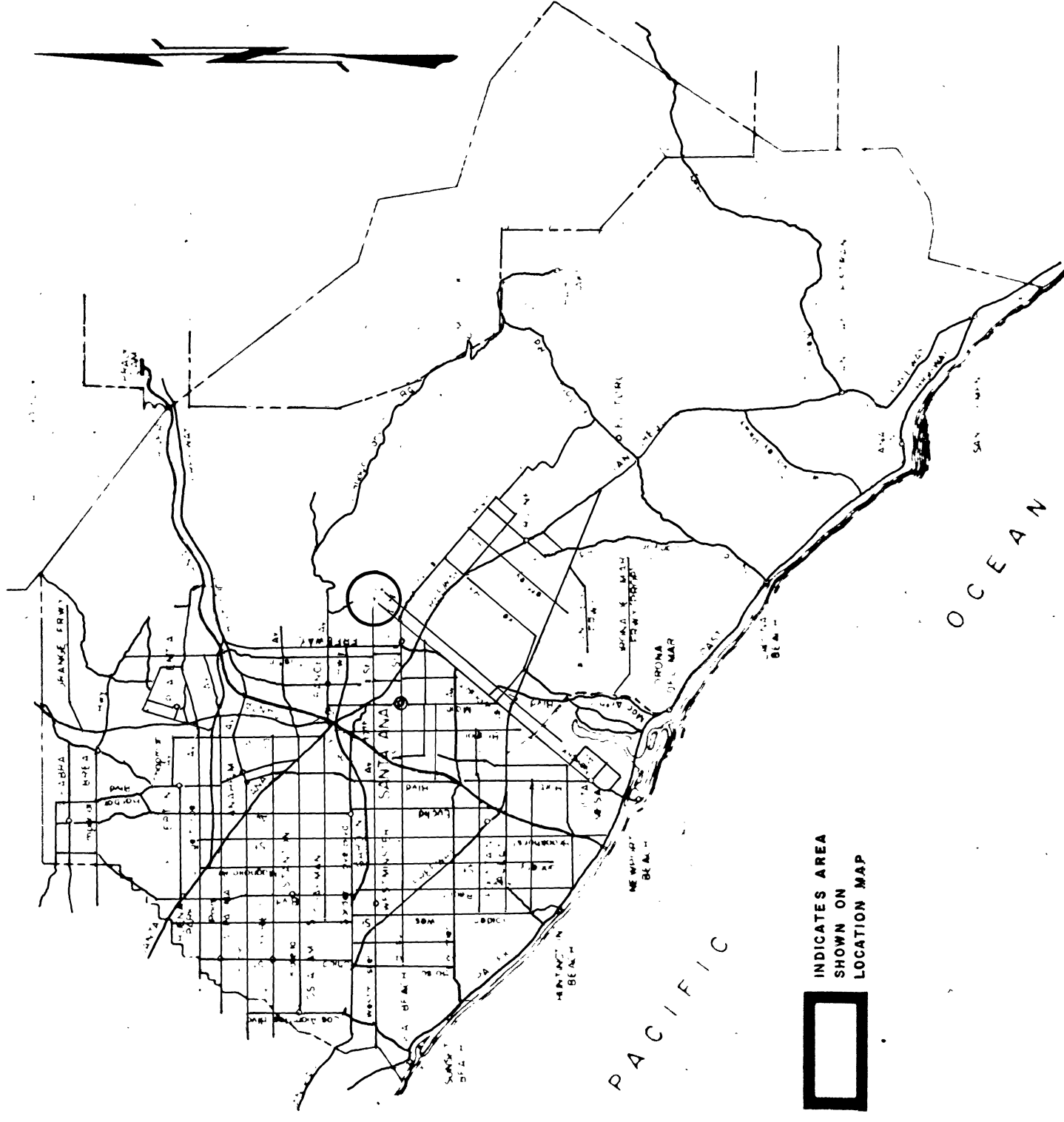
2101 E. 4th. STREET
SANTA ANA, CALIF.
(714) - 547 - 6375

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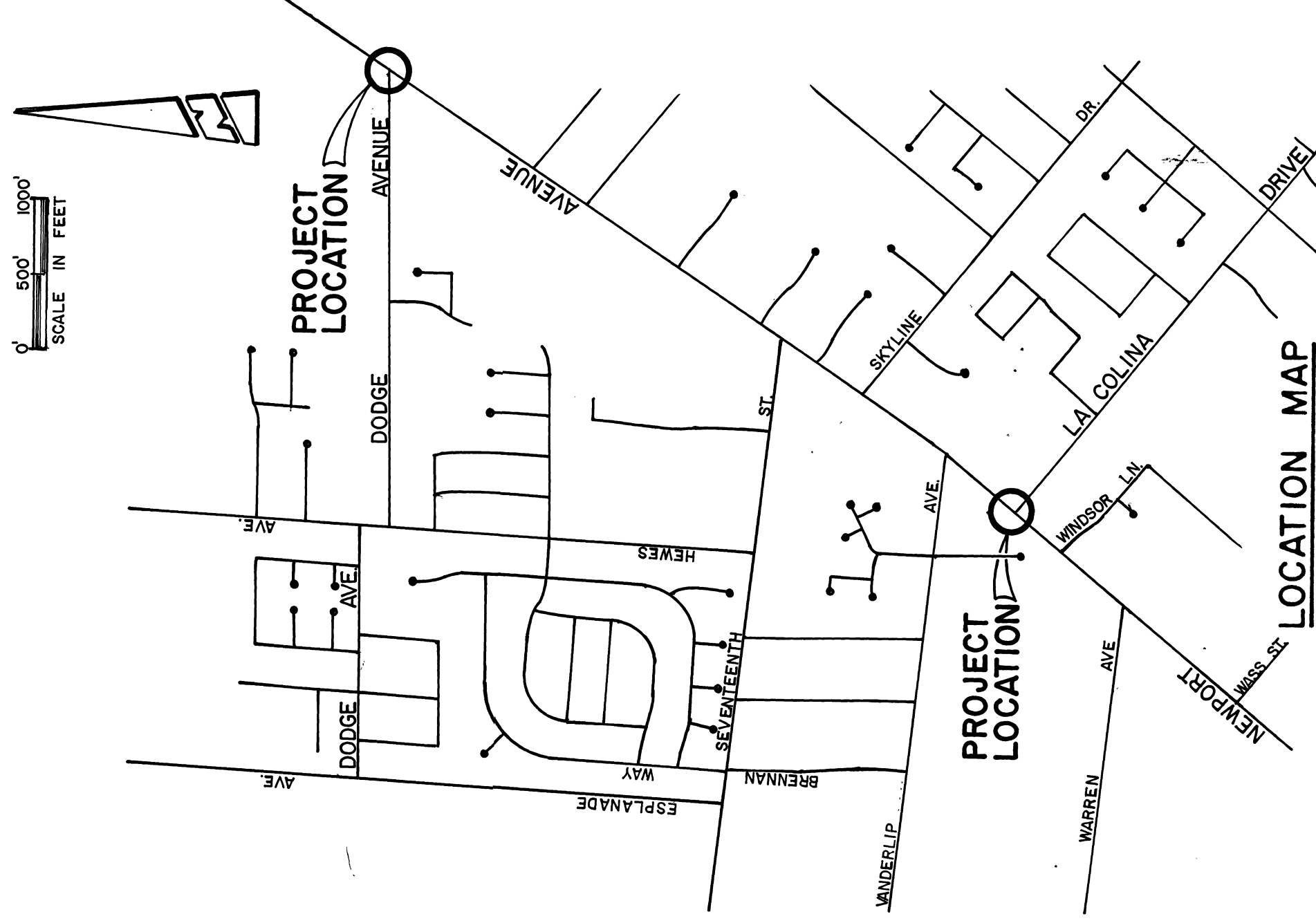
DESIGN ENGINEER R.C.E. No. 14526 DATE 3-2-77

DESIGN. ENGINEER R.C.E. No. 14526

DATE _____



VICINITY MAP



LOCATION MAP

SHEET	INDEX OF SHEETS	DESCRIPTION
1	TITLE	SHEET
2	DODGE AVENUE	INTERSECTION PLAN
3	LA COLINA DRIVE	INTERSECTION PLAN
4		DETAILS

UTILITY	PHONE NO.
*SOUTHERN CALIFORNIA GAS (MAX HOWARD)	634-0211
*PACIFIC TELEPHONE (DOLORES REED)	557-1152
SOUTHERN CALIFORNIA EDISON (JOHN MILLER)	835-3833
COUNTY SANITATION DISTRICTS (NICK DE BENEDETTO)	962-2411
TUSTIN WATER (EARL ROWENHORST)	544-4370

*USA MEMBER

BENCH MARK

BASIS OF BEARING:

[illegible]

W. O. NO. DODGE - R14281
DWG. NO. LA COLINA - R14279

SHEET 1 OF 4

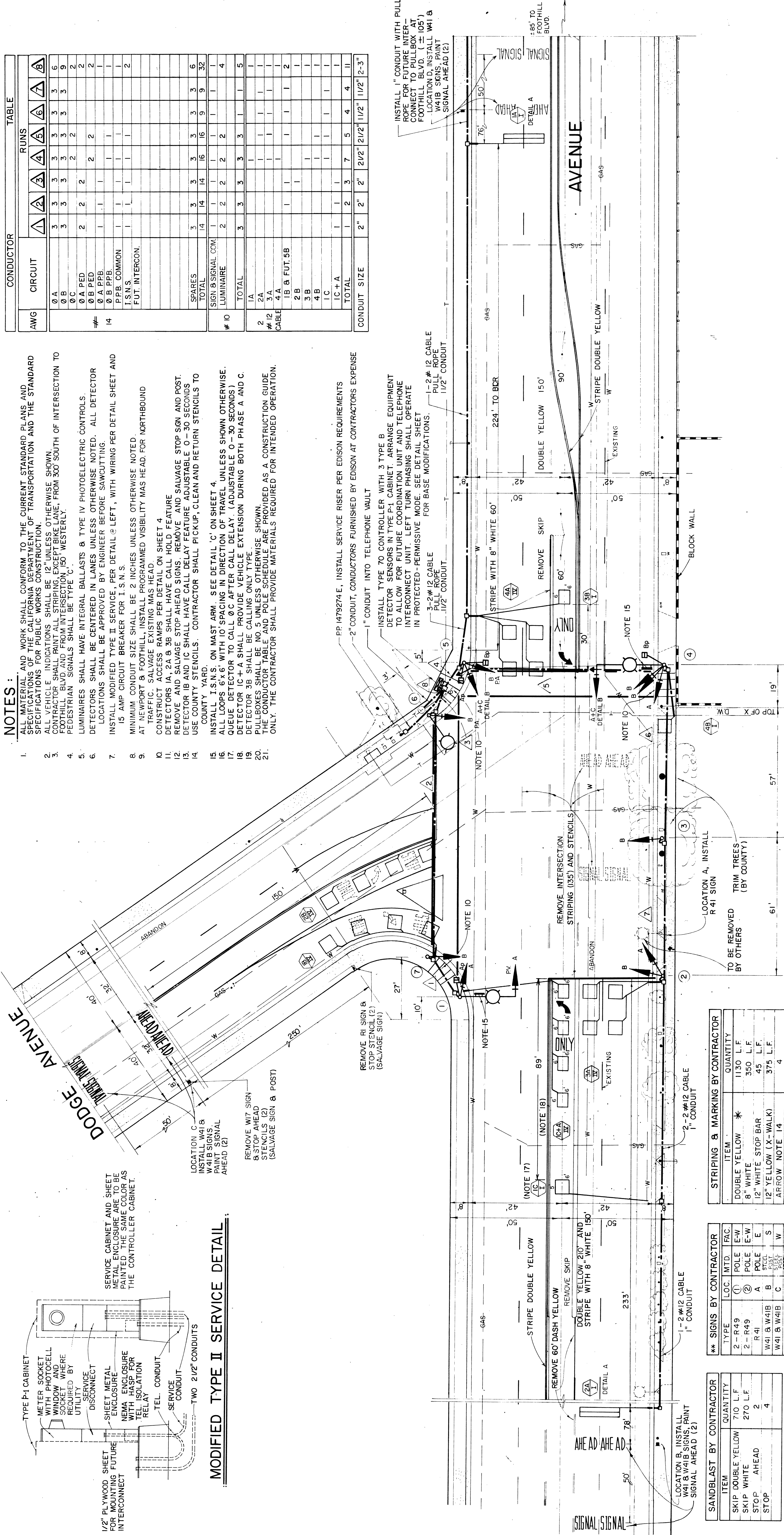
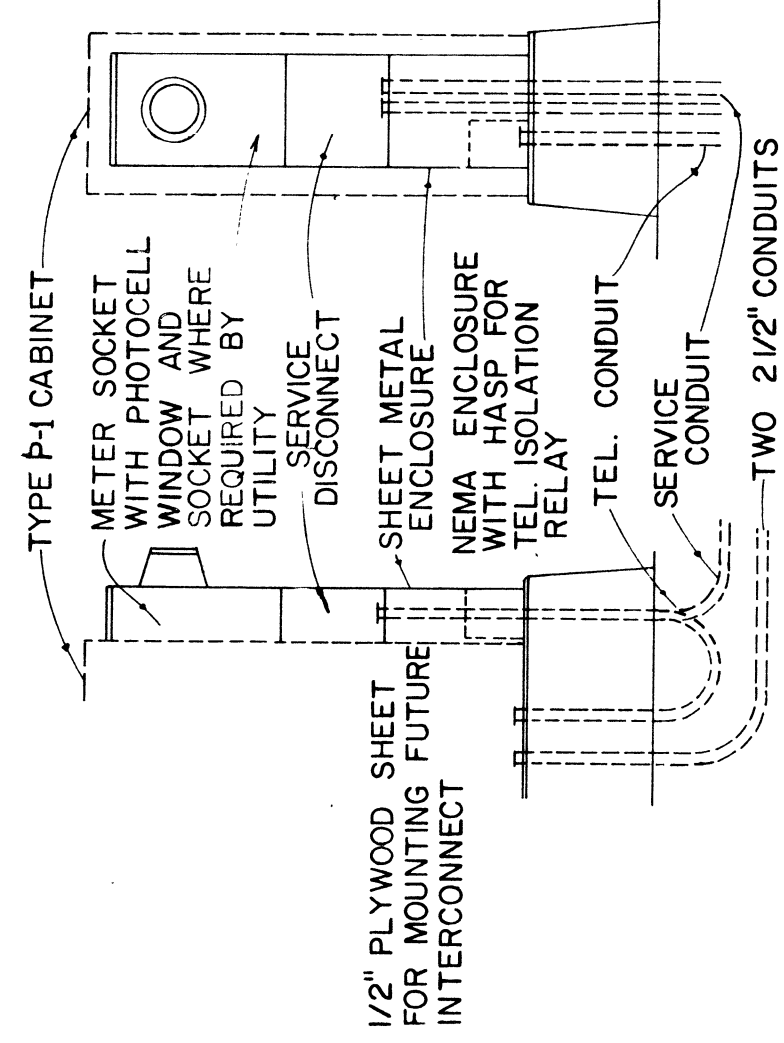
DR #6 (13/61)

NOTES :

1. ALL MATERIAL AND WORK SHALL CONFORM TO THE CURRENT STANDARD PLANS AND SPECIFICATIONS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. ALL VEHICLE INDICATIONS SHALL BE 12" UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL PAINT ALL STRIPING, EXCEPT BIKE LANE, FROM 300' SOUTH OF INTERSECTION TO FOOHILL BLVD AND FROM INTERSECTION 150' WESTERLY LANE.
4. PEDESTRIAN SIGNALS SHALL BE TYPE 'C'.
5. LUMINAIRES SHALL HAVE INTEGRAL BALLASTS & TYPE IV PHOTOELECTRIC CONTROLS.
6. DETECTORS SHALL BE CENTERED IN LANES UNLESS OTHERWISE NOTED. ALL DETECTOR LOCATIONS SHALL BE APPROVED BY ENGINEER BEFORE SAWCUTTING.
7. INSTALL MODIFIED TYPE II SERVICE, PER DETAIL 0 LEFT, WITH WIRING PER DETAIL SHEET AND 15 AMP CIRCUIT BREAKER FOR 1 S.N.S.
8. MINIMUM CONDUIT SIZE SHALL BE 2 INCHES UNLESS OTHERWISE NOTED.
9. AT NEWPORT 8' FOOTHILL, INSTALL PROGRAMMED VISIBILITY MA HEAD, FOR NORTHBOUND TRAFFIC. SALVAGE EXISTING MA HEAD.
10. CONSTRUCT ACCESS RAMPS PER DETAIL ON SHEET 4
11. DETECTORS 1A, 2A & 3B SHALL HAVE CALL HOLD FEATURE
12. REMOVE AND SALVAGE STOP AHEAD SIGNS. REMOVE AND SALVAGE STOP SIGN AND POST.
13. DETECTOR 1B AND 1C SHALL HAVE CALL DELAY FEATURE ADJUSTABLE 0 - 30 SECONDS.
14. USE COUNTY STENCILS. CONTRACTOR SHALL PICKUP, CLEAN AND RETURN STENCILS TO COUNTY YARD.
15. INSTALL 1 S.N.S. ON MAST ARM. SEE DETAIL 'C' ON SHEET 4.
16. ALL LOOPS 6'x6' WITH 1" SPACING IN DIRECTION OF TRAVEL UNLESS SHOWN OTHERWISE.
17. QUEUE DETECTOR TO CALL 0 C AFTER CALL DELAY (ADJUSTABLE 0 - 30 SECONDS).
18. DETECTOR 1C + 4 SHALL PROVIDE VEHICLE EXTENSION DURING BOTH PHASE A AND C.
19. DETECTOR 3B SHALL BE CALLING ONLY DURING PHASE A.
20. THE CONDUCTOR TABLE AND PLACES SCHEDULE ARE PROVIDED AS A CONSTRUCTION GUIDE ONLY. THE CONTRACTOR SHALL PROVIDE MATERIAL REQUIRED FOR INTENDED OPERATION.
- 21.

CONDUCTOR		TABLE									
AWG	CIRCUIT	RUNS									
		1	2	3	4	5	6	7	8		
#=14	Ø A	3	3	3	3	3	3	3	3	3	6
	Ø B	3	3	3	3	3	3	3	3	3	9
	Ø C										2
	Ø A PED	2	2	2	2	2	2	2	2	2	2
	Ø B PED										2
	Ø A PPB	1	1	1							1
	Ø B PPB				1	1	1	1	1	1	1
	PPB COMMON	1	1	1	1	1	1	1	1	1	1
	I.S.N.S	1	1	1	1	1	1	1	1	1	2
	FUT. INTERCON.										

MODIFIED TYPE II SERVICE DETAIL



SANDBLAST BY CONTRACTOR	
ITEM	QUANTITY
SKIP DOUBLE YELLOW	710 L.F.
SKIP WHITE	270 L.F.
STOP AHEAD	2
STOP	4

** SIGNS BY CONTRACTOR				
TYPE	LOC.	MTD	FAC.	
2 - R49	①	POLE	E-W	
2 - R49	②	POLE	E-W	
R41	A	POLE	E	
W41 & W41B	B	STEEL POST	S	
W41 & W41B	C	STEEL POST	W	
W41 & W41B	D	STEEL POST	N	

STRIPING & MARKING BY CONTRACTOR		QUANTITY
ITEM		
DOUBLE YELLOW	*	1130 L.F.
8" WHITE		350 L.F.
12" WHITE STOP BAR		45 L.F.
12" YELLOW (X-WALK)		375 L.F.
ARROW	NOTE 14	4
ONLY	NOTE 14	4
SIGNAL AHEAD	NOTE 14	6

**** SIGNS TO BE FURNISHED BY COUNTY
& INSTALLED BY CONTRACTOR**

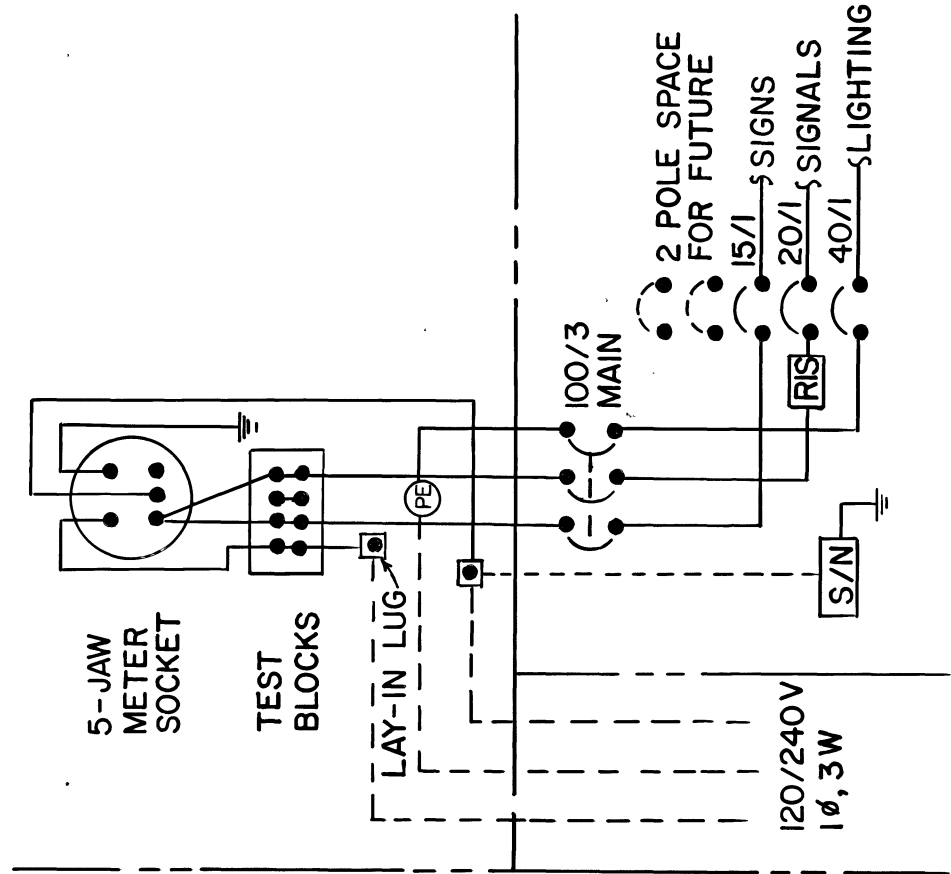
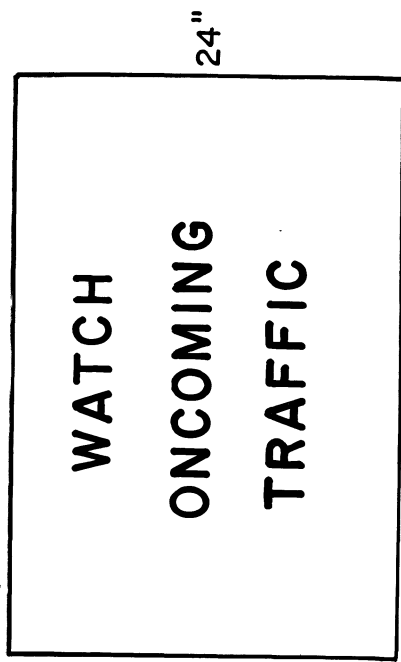
* WITH 3" BLACK BETWEEN YELLOW LINES

STANDARD					POLE					SCHEDULE E				
No.	TYPE	HEIGHT	SIG.MA	LUM.MA	LUMINAIRE	I.S.N.S. LEGEND	SIGNAL VEHICLE	MTG. PED.	PED. PUSH BTN.	REMARKS				
①	I-9	30'	25'	15'	250W/H.P.S.V.	Dodge Av.	MAS SV-1T SP-1T							
②	I-A	10'					TV-2T							
③	I-A	10'					TV-1							
④	I-9	30'	30'	15'	250W/H.P.S.V.	Dodge Av.	MAS SV-1T SP-1T		B	B				
⑤	I-A	10'					SV-2T						12" INDICATIONS MOUNT AT 17' 6" FROM MOUNT ON STREET SIDE OF POLE	
⑥	I-5	28'-6"		15'	250W/H.P.S.V.		TV-2T SP-2T		B	B				
⑦	I-A	10'					SV-1T		B	A				
							TV-1		B	A				

PHASE	DIAGRAM

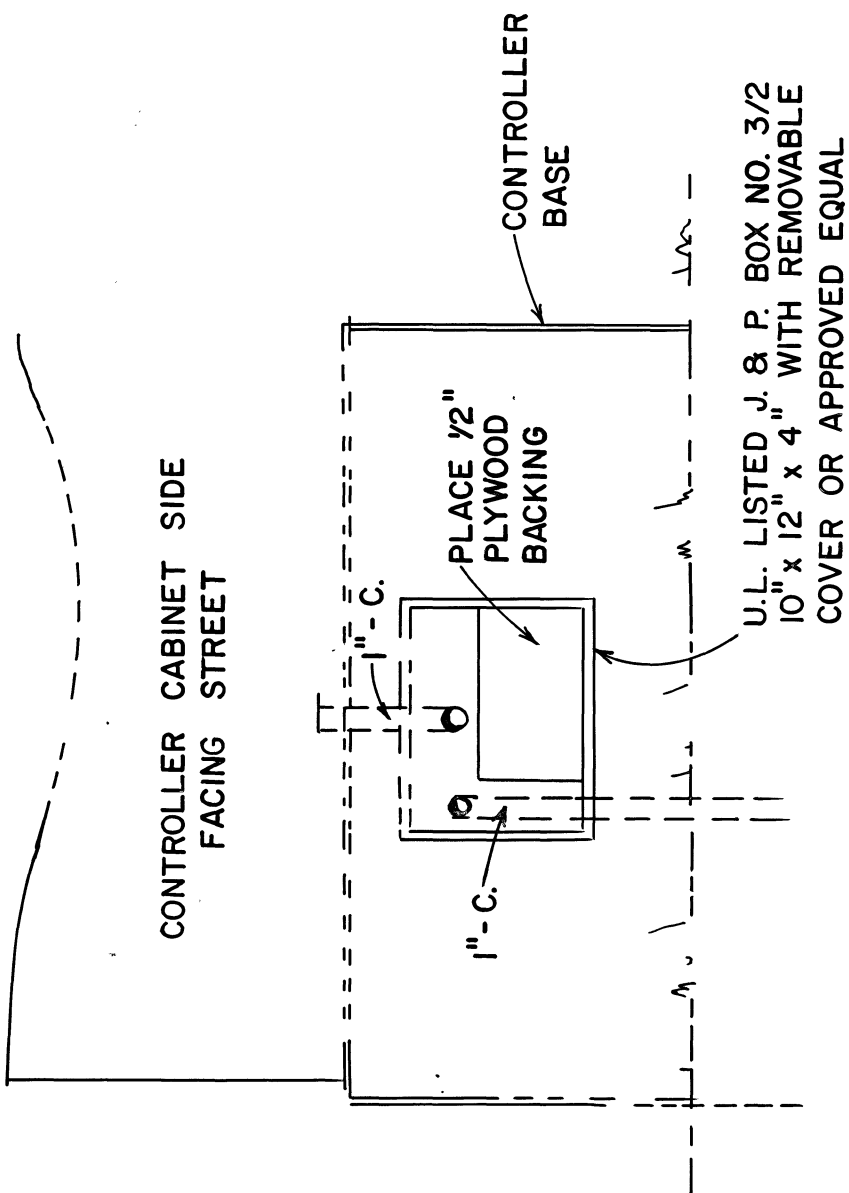
DR #6 013161

DETAIL E

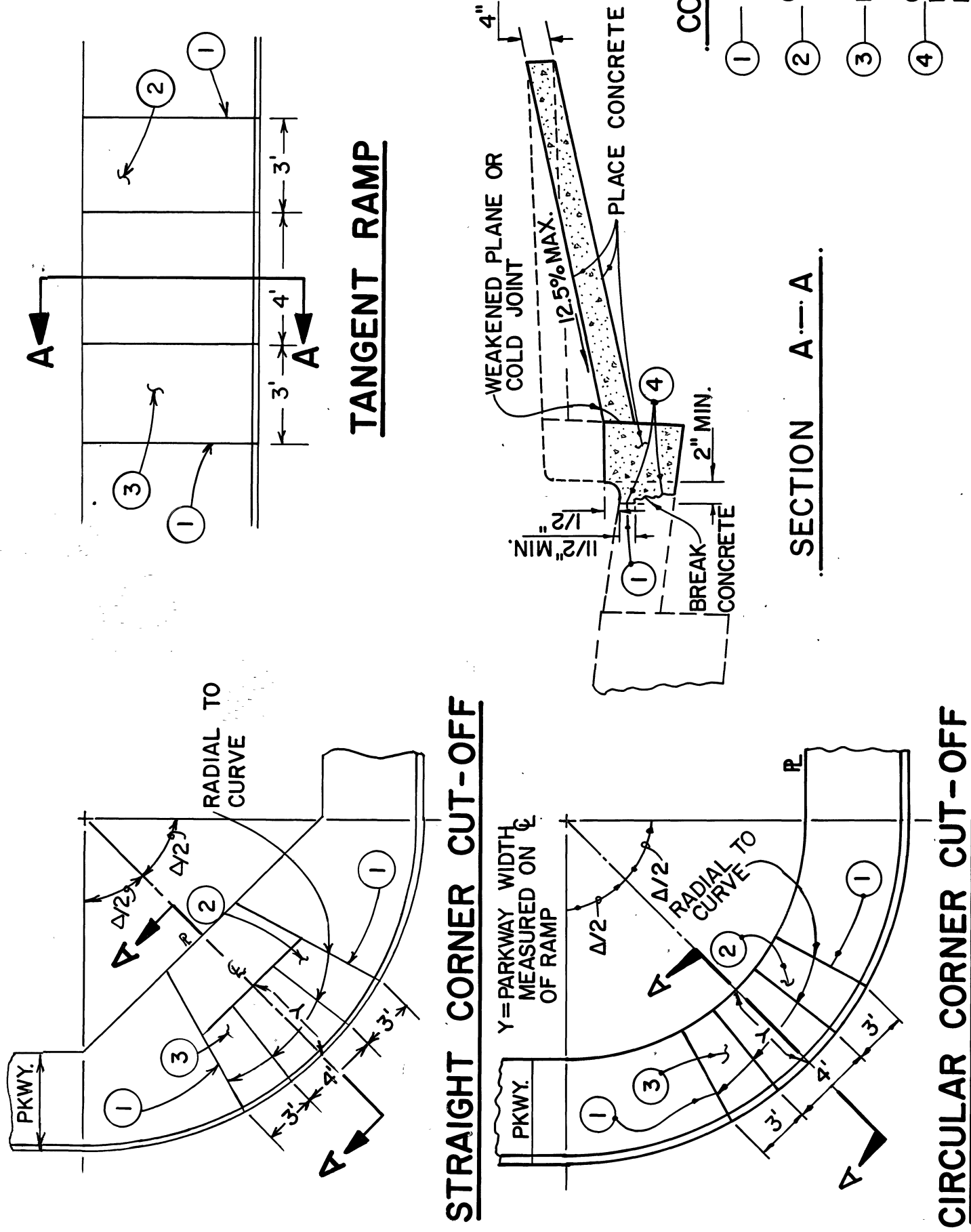


SERVICE EQUIPMENT WIRING DIAGRAM

TELEPHONE SERVICE BOX DETAIL



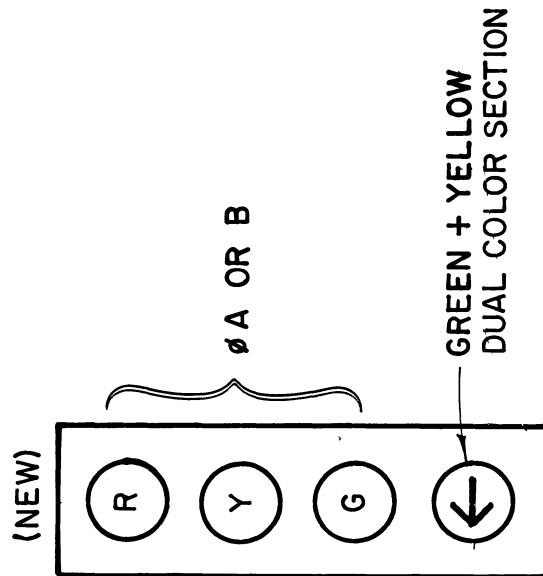
SIDEWALK ACCESS RAMP DETAIL



- CONSTRUCTION NOTES :
- 1—SAWCUT & JOIN EXISTING
 - 2—CONSTRCT SIDEWALK ACCESS RAMP PER STANDARD PLAN No. III.
 - 3—REMOVE CONCRETE
 - 4—CLEAN EXPOSED CONCRETE & APPLY ADHESIVE EPOXY RESIN IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE

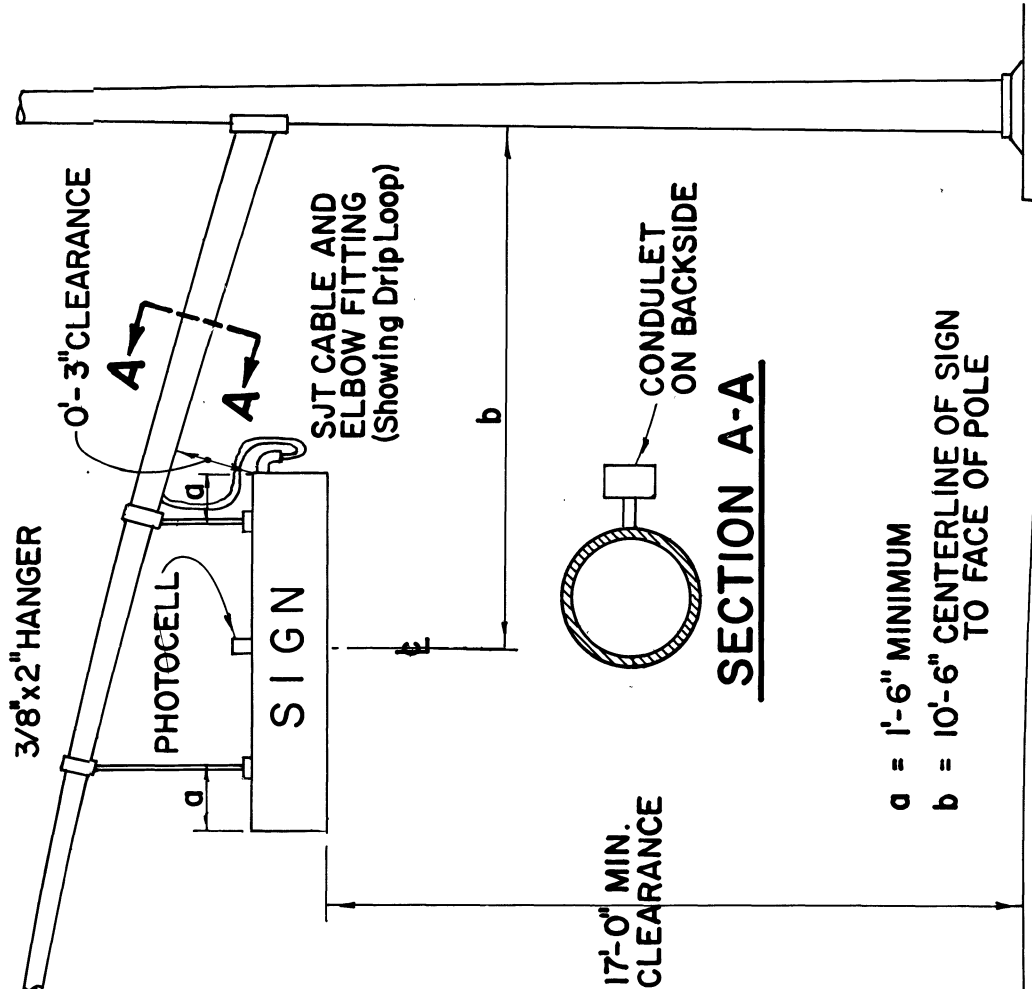
SECTION A--A

DETAIL "B"

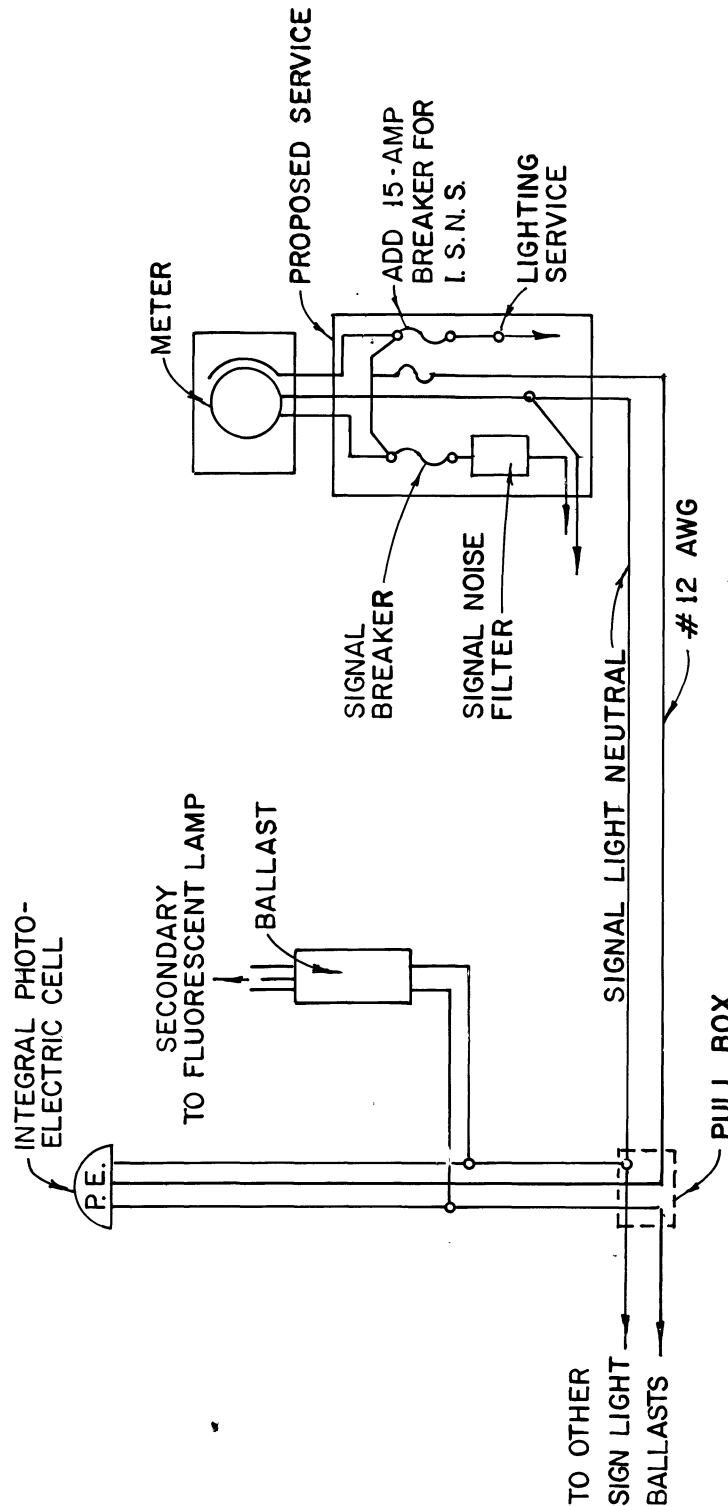


QUADROPOLE LOOP DETECTOR

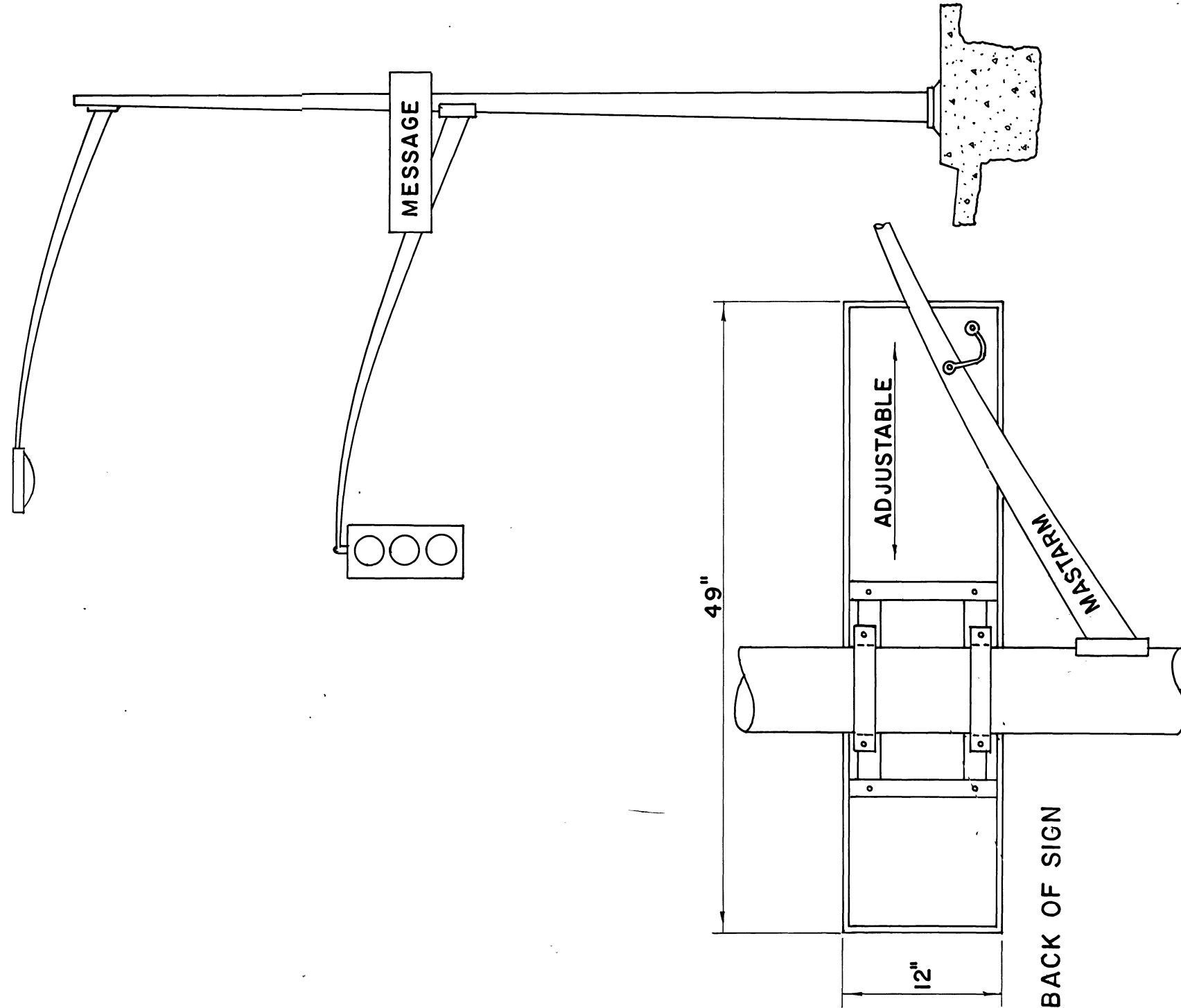
DETAIL "A"



WIRING DIAGRAM
INTERNALLY ILLUMINATED STREET NAME SIGN



DETAIL "D"



ASSEMBLY OF SIGN COMPONENTS
(FOR STREET NAME SIGNS)

DETAIL "C"