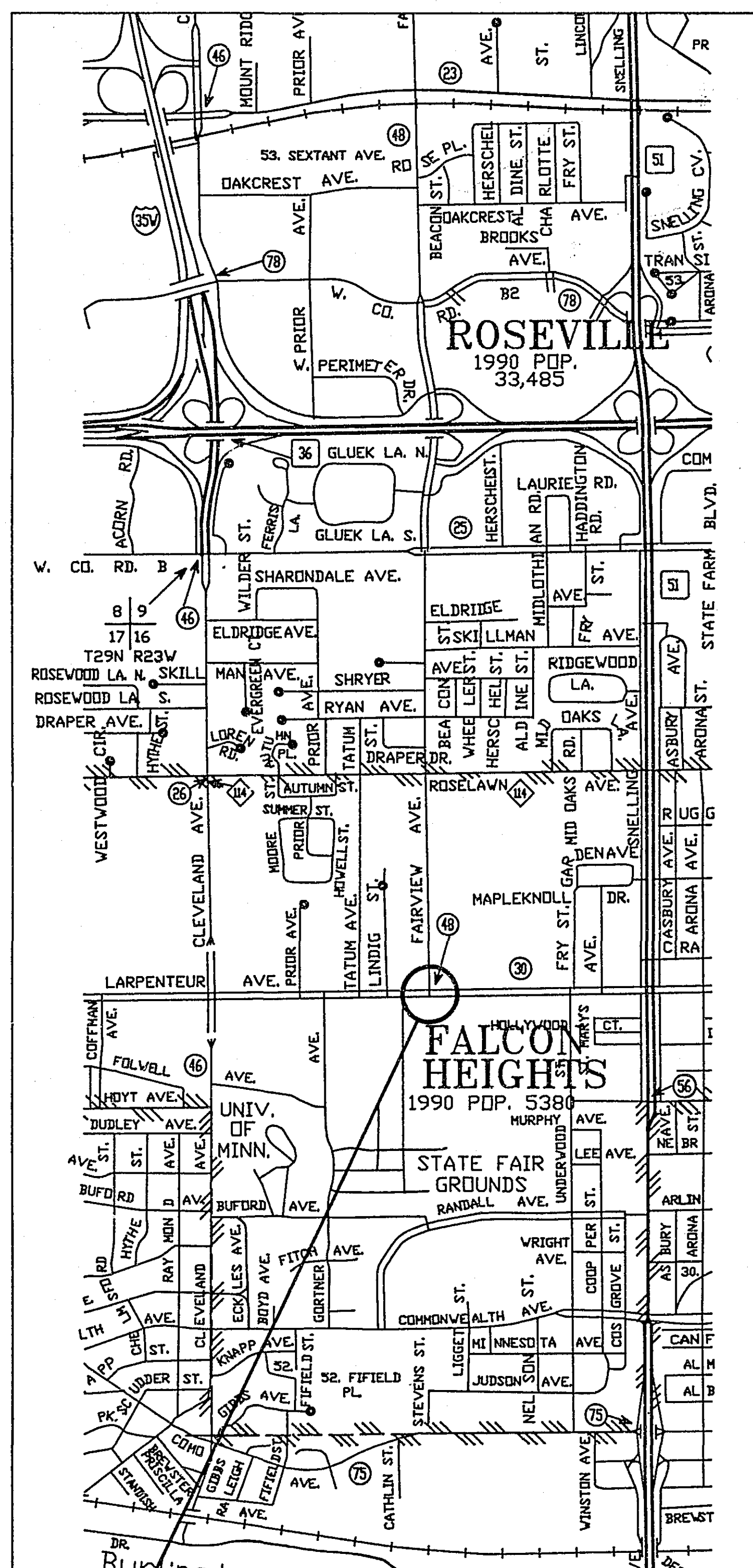


ABBREVIATIONS

3-1 (e.g.)	-SIGNAL HEAD, PHASE "3", NO. "1"
BL	-BLUE
BLK	-BLACK
BLK/WH	-BLACK WITH WHITE TRACER
BL/BLK	-BLUE WITH WHITE TRACER
BR. GR.	-BARE GROUND
CH. SW.	-CHECK SWITCH
CLR	-CLEAR
D2-1 (e.g.)	-DETECTOR, PHASE "2", NO. "1"
DNL	-DOWNLIGHT
DWK	-DON'T WALK
EQG	-EQUIPMENT GROUND
EVP	-EMERGENCY VEHICLE PRE-EMPTION
F&I	-FURNISH AND INSTALL
FL	-FLASH/FLASHING
G	-GREEN
GLTA	-GREEN LEFT TURN ARROW
GRN	-GREEN
GRTA	-GREEN RIGHT TURN ARROW
GR.R.	-GROUND ROD
GTHA	-GREEN THROUGH ARROW
G/BLK	-GREEN WITH BLACK TRACER
HPS	-HIGH PRESSURE SODIUM
H.H.	-HANDHOLE
IMC	-INTERMEDIATE METAL CONDUIT
J.B.	-JUNCTION BOX
LTA	-LEFT TURN ARROW
LUM	-LUMINAIRE
MV	-MERCURY VAPOR
NEU	-NEUTRAL
NMC	-NON-METALLIC CONDUIT
O	-ORANGE
O/BLK	-ORANGE WITH BLACK TRACER
P1-1 (e.g.)	-PEDESTRIAN INDICATION, PHASE "1", NO. "1"
PB	-PUSH BUTTON
PB2-1 (e.g.)	-PUSH BUTTON, PHASE "2", NO. "1"
PED	-PEDESTRIAN
P.E.C.	-PHOTOELECTRIC CELL
R	-RED
R&S	-REMOVE AND SALVAGE
RSC	-RIGID STEEL CONDUIT
RTA	-RIGHT TURN ARROW
R/BLK	-REN WITH BLACK TRACER
SPR	-SPARE
STA	-STATION
ST. LHT.	-STREET LIGHT
SW	-SWITCH
SWD	-SWITCHED
S.O.P.	-SOURCE OF POWER
TDW	-TELEPHONE DROP WIRE
WH	-WHITE
WH/BLK	-WHITE WITH BLACK TRACER
WLK	-WALK
YEL	-YELLOW
YLTA	-YELLOW LEFT TURN ARROW
YRTA	-YELLOW RIGHT TURN ARROW
YTHA	-YELLOW THROUGH ARROW

FOR PLANS AND UTILITIES SYMBOLS SEE
MN/DOT TECHNICAL MANUAL.

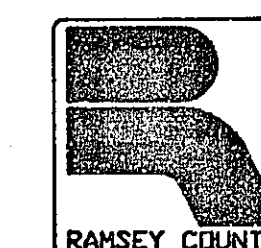
-GOVERNING SPECIFICATIONS-

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT
OF TRANSPORTATION "STANDARD SPECIFICATION
FOR CONSTRUCTION" AS AMENDED BY THE 1991
"SUPPLEMENTAL SPECIFICATIONS" SHALL GOVERN.1/2 Mile
ScaleLARPENTEUR AVE & FAIRVIEW AVE
SYSTEM A

DESIGN DESIGNATION	(CSAH 30) LARPENTEUR AVE	(CSAH 48) FAIRVIEW AVE
PRESENT ADT (1992)	11,500	5,300
FUTURE ADT (2012)	17,250	7,950
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL	MINOR ARTERIAL
TRAFFIC LANES	4	2
PARKING LANES	0	0

ASBUILT PLAN
CONFORMING TO
CONST. RECORDSDONE BY: JPH
DATE: 2-14-95

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RAMSEY COUNTY

DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION PLAN FOR TEMPORARY TRAFFIC CONTROL SIGNAL SYSTEM

S.A.P. No. 62-630-41

LARPENTEUR AVE & FAIRVIEW AVESYSTEM A

INDEX

SHEET NO.	DESCRIPTION
1	TITLE
2	ESTIMATED QUANTITIES & DETAILS
3	DETAILS
4	INTERSECTION LAYOUT
5	FIELD WIRING DIAGRAM
6	UTILITY INFORMATION

DESIGN SQUAD R. Weber DATE 12-7-92

DRAWN BY _____ DATE _____

CHECKED BY _____ DATE _____

RAMSEY COUNTY

RECOMMENDED FOR APPROVAL	<u>RHP LKF</u>	DATE	<u>2-19-93</u>
	CONST. ENGR.		
RECOMMENDED FOR APPROVAL	<u>DLR</u>	DATE	<u>1-22-93</u>
	DESIGN ENGR.		
RECOMMENDED FOR APPROVAL	<u>KMR</u>	DATE	<u>2-19-93</u>
	ENVR. ENGR.		
RECOMMENDED FOR APPROVAL	<u>DJA</u>	DATE	<u>2-19-93</u>
	MAINT. ENGR.		
RECOMMENDED FOR APPROVAL	<u>TAM</u>	DATE	<u>2-19-93</u>
	PLANNER		
RECOMMENDED FOR APPROVAL	<u>CLB</u>	DATE	<u>1-25-93</u>
	R.O.W. ENGR.		
RECOMMENDED FOR APPROVAL	<u>DS</u>	DATE	<u>2/19/93</u>
	TRAFFIC ENGR.		
RECOMMENDED	<u>Wayne Cronack</u>	DATE	<u>2-21-93</u>
	COORDINATING ENGR.		
RECOMMENDED	_____	DATE	_____
	PROGRAM ENGR.		

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.Daniel E. Soler REG. NO. 20452 DATE 2/19/93RECOMMENDED FOR APPROVAL Paul Hill COUNTY ENGINEER DATE 2/19/93APPROVED Harold A. Haggard DATE 4/9/93
CHAIR OF THE RAMSEY COUNTY BOARDAPPROVED Wayne Cronack DATE 3/11/93
CITY OF FALCON HEIGHTS

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL Mark Stueck DATE 4-13-93
STATE AID PLANS & SPEC. ENGR.RECOMMENDED FOR APPROVAL Mark Stueck DATE 9/22/93
METRO-AREA DESIGN ENGR. - STATE AIDRECOMMENDED FOR APPROVAL Mark Stueck DATE 1/13/93
TRAFFIC ENGINEERAPPROVED Deanne P. Carlson DATE 4/14/93
STATE AID ENGINEER

PLAN REVISIONS		
DATE	SHEET NO. & DESCRIPTION	BY
2/18/93	1 to 6 STAFF REVIEW	RWW
3/17/93	1, ADD DESIGN DESIGNATION	RWW

S.A.P. No. 62-630-41, 62-648-15 Sheet No. 1 of 6 Sheets

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23-155 Larpenteur Avenue & Fairview Ave
SAP 62-630-41

1-6

24 X 1

STANDARD PLATES

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL
HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT

PLATE NO.	DESCRIPTION
* 0005 A	SPECIFICATION REFERENCE TO STANDARD PLATES
7035 J	CONCRETE WALK & CURB RETURNS AT ENTRANCES
7036 C	PEDESTRIAN CURB RAMP
7100 F	CONCRETE CURB AND GUTTERS (DESIGN B & DESIGN V)
7103 C	PRECAST CONCRETE CURB
8000 I	STANDARD BARRICADES
* 8110 C	TRAFFIC SIGNAL BRACKETING (POLE MOUNTED)
8111 B	TRAFFIC SIGNAL BRACKETING (PEDESTAL MOUNTED)
8112 C	PEDESTAL FOUNDATION
8113 C	MAGNETIC VEHICLE DETECTOR INSTALLATION
* 8115 C	PEDESTRIAN PUSH BUTTON INSTALLATION
* 8117 F	PRECAST CONCRETE HANDHOLE
8118 C	SERVICE EQUIPMENT & POLE, TRAFFIC CONTROL SIGNALS
8119 C	GROUND MOUNTED CABINET FOUNDATION
8120 H	POLE FOUNDATION (P80 & P90)
8121 B	TRANSFORMER BASE WITH POLE BASE PLATE
8222 C	PEDESTAL AND PEDESTAL BASE
8123 B	POLE AND MAST ARM (LUMINAIRE AND TRAFFIC LIGHTS)
8124 D	MAST ARM SIGNAL HEAD MOUNTS
8126 C	P-100 POLE FOUNDATION
* 8130 D	SAW CUT LOOP DETECTORS

* STANDARD PLATES APPLICABLE TO THIS PROJECT

STATEMENT OF ESTIMATED QUANTITIES

[illegible]

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

Daniel E. Sahr

Date 2/19/93 Reg. No. 20452

ASBUILT PLAN

CONFORMING TO
CONST. RECORDS

DONE BY: JPH

DATE: 2-14-95

ESTIMATED QUANTITIES & DETAILS
LARPEN TEUR AVE & FAIRVIEW AVE
SYSTEM A

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Sheet No. 2 of 6 Sheets

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SAP 62-620-41

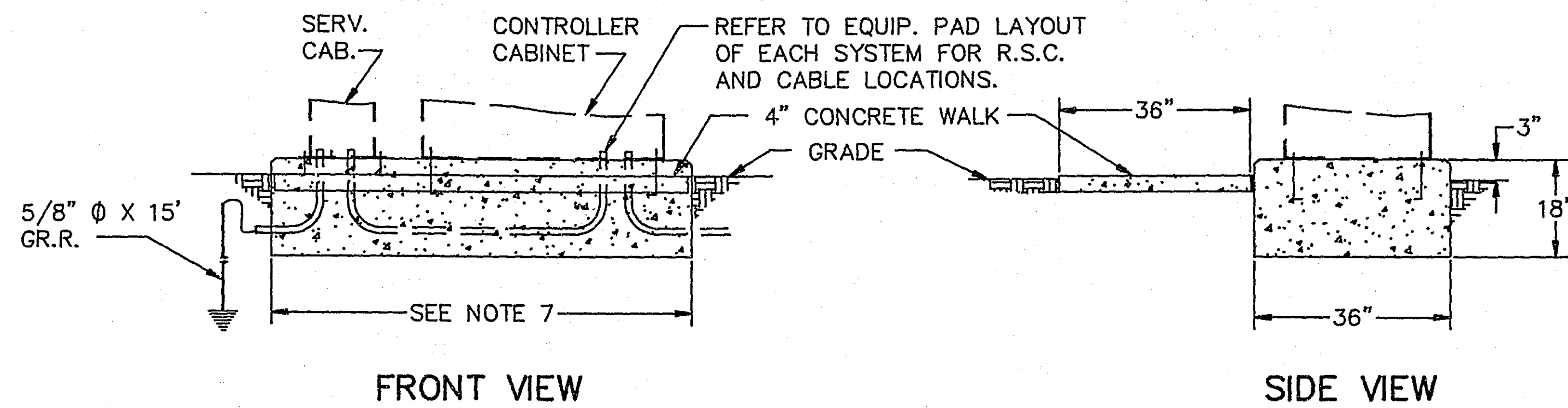
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EQUIPMENT PAD FOUNDATION

NOTES:

- ANCHOR RODS, NUTS AND WASHERS PER MN/DOT 3385 OR APPROVED EQUAL SET AS RECOMMENDED BY CABINET MANUFACTURER (NUMBER, SIZE AND LENGTH OF ANCHOR RODS) SHALL BE AS REQUIRED BY THE CABINET (MANUFACTURER).
- UPPER PART OF FOUNDATION SHALL BE BEVELED OR CHAMFERED IN A NEAT MANNER AS DIRECTED BY THE ENGINEER IN THE FIELD.
- TOP OF CONDUITS SHALL BE THREADED AND CAPPED AFTER INSTALLATION (UNTIL CABLES ARE INSTALLED). CONDUIT SHALL PROJECT A MINIMUM OF 2" ABOVE CONCRETE AND SHALL BE LOCATED INSIDE THE CABINET WHERE DIRECTED BY THE ENGINEER BUT SHALL NOT INTERFERE WITH CABINET FUNCTIONS.
- CONCRETE MIX 3A32 OR EQUAL SHALL BE USED FOR FOUNDATION AND CONCRETE WALK.
- CONDUITS WHICH HAVE BOTH ENDS TERMINATING WITHIN THE PAD SHALL NOT BE INSTALLED BELOW THE CONCRETE.
- EXACT LOCATIONS OF CONDUIT WITHIN THE PAD SHALL BE AS DETERMINED BY THE ENGINEER IN THE FIELD.
- REFER TO EQUIPMENT PAD LAYOUT OF EACH SYSTEM FOR FOUNDATION SIZE, CONDUIT PLACEMENT AND EQUIPMENT TO BE INSTALLED.



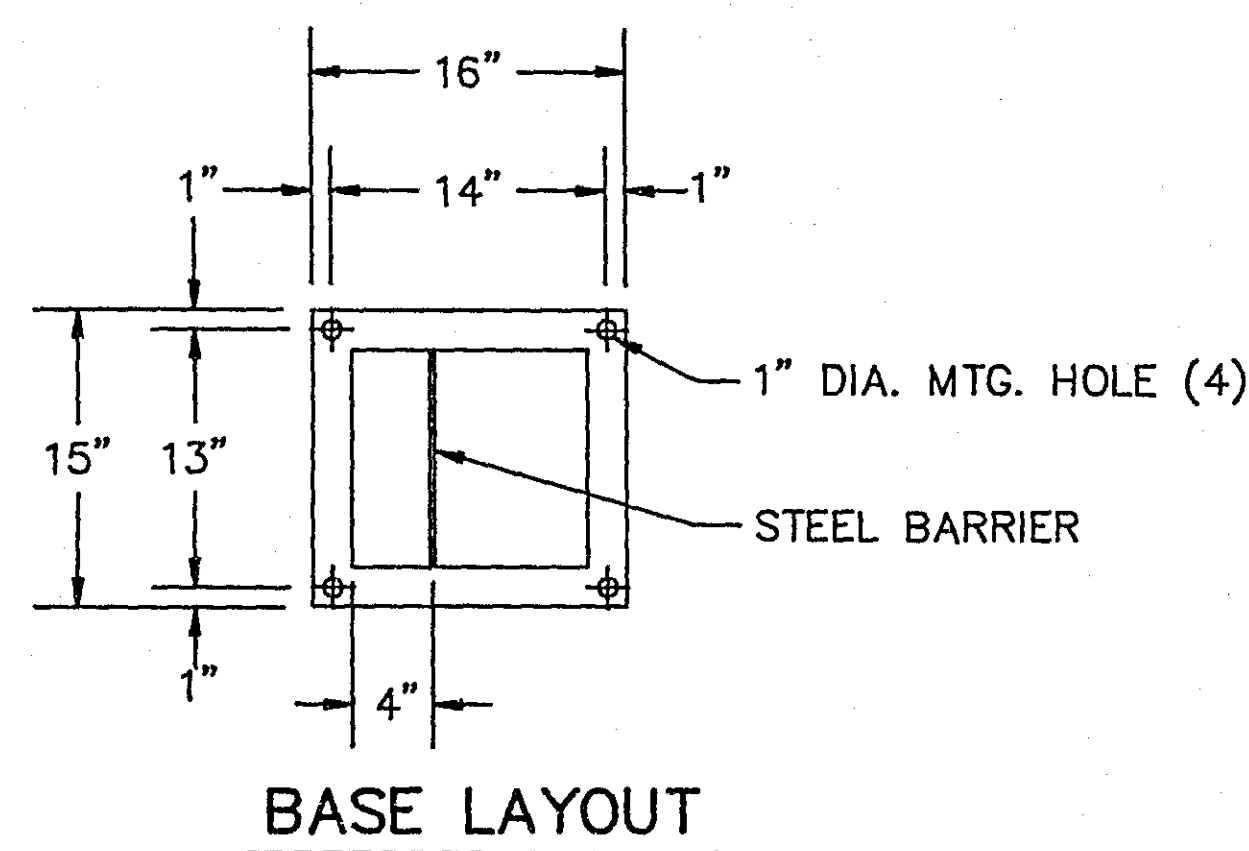
FRONT VIEW

SIDE VIEW

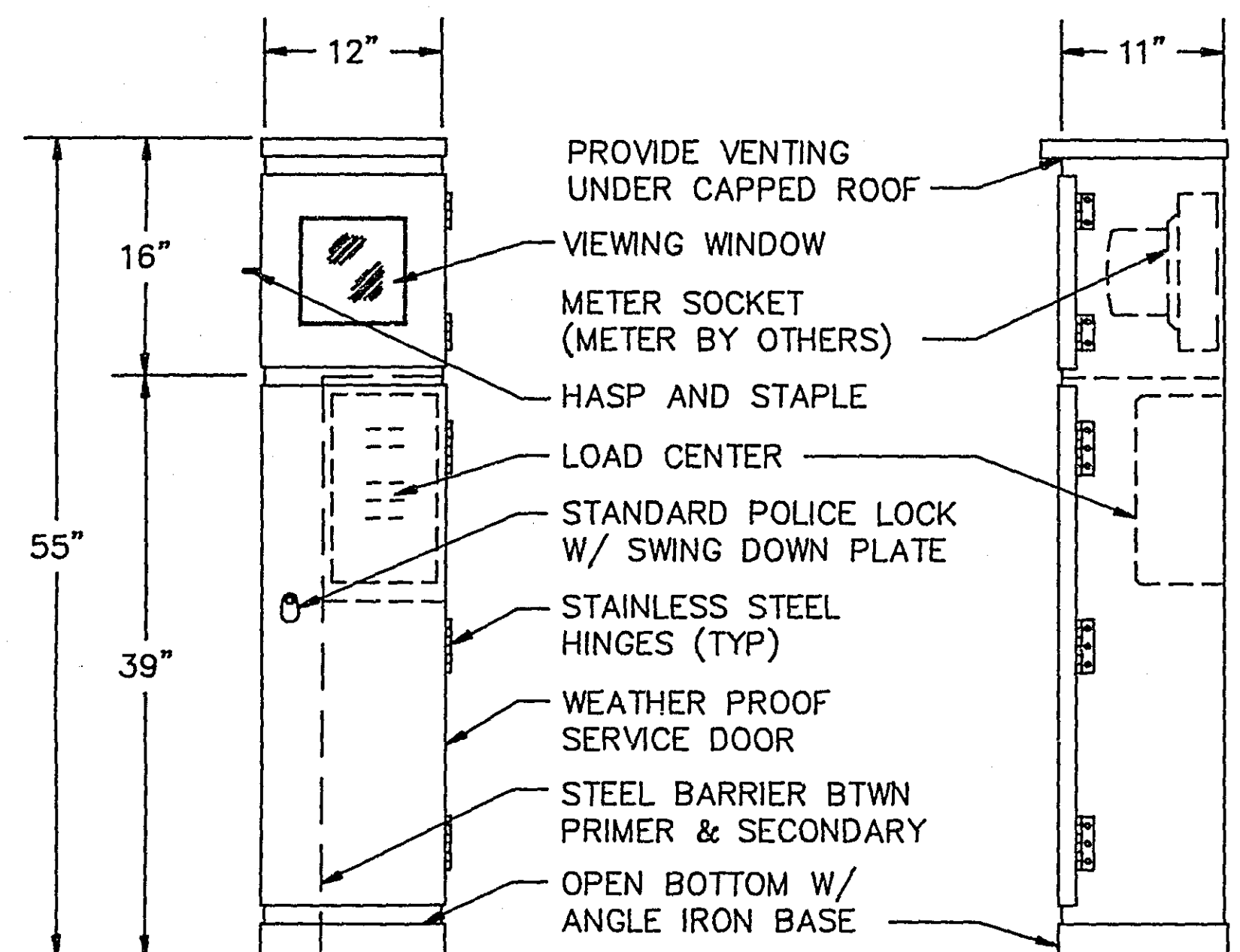
SERVICE CABINET DETAILS

NOTES:

- PEDESTAL SHALL BE FABRICATED FROM NO. 12 GA. ALL FORMED AND WELDED COLD ROLLED STEEL FOR USE AS AN OUTDOOR WEATHER PROOF SERVICE.
- DOOR OPENINGS SHALL BE SEALED WITH NEOPRENE GASKET.
- ALL HINGES, HINGE PINS AND LOCKS SHALL BE MADE FROM NON-CORRODING MATERIALS.
- THE VIEWING WINDOW SHALL BE LEXAN MATERIAL - 7" X 7" MIN.
- THE PEDESTAL CABINET SHALL BE PROTECTED INSIDE AND OUT WITH A RUST INHIBITING PRIMER AND FINISHED WITH AN OVEN BAKED ENAMEL, TRANSCLOSURE DARK GREEN.
- ANCHOR RODS, NUTS & WASHERS - SEE EQUIPMENT PAD NOTE No. 1.

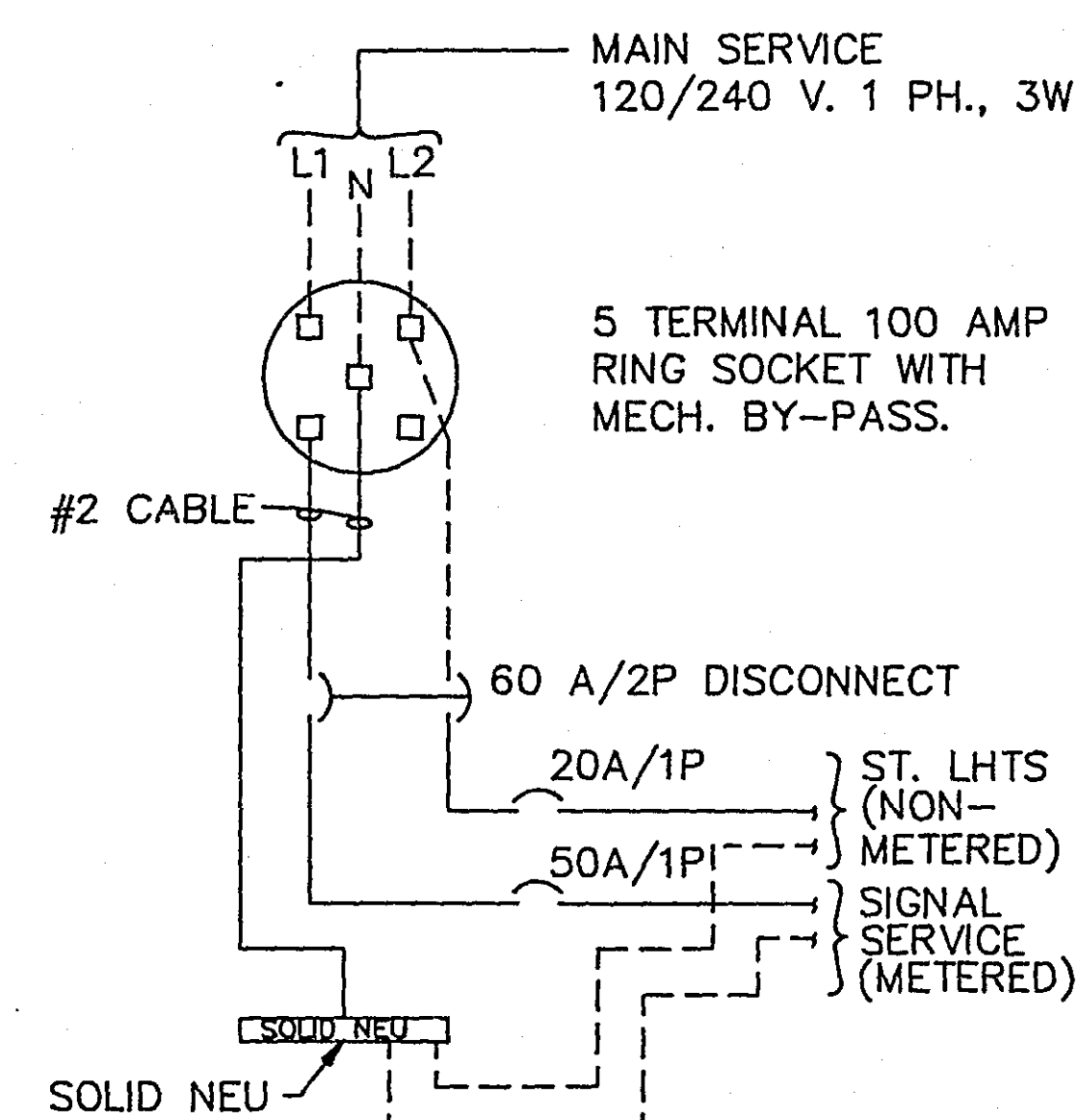


BASE LAYOUT



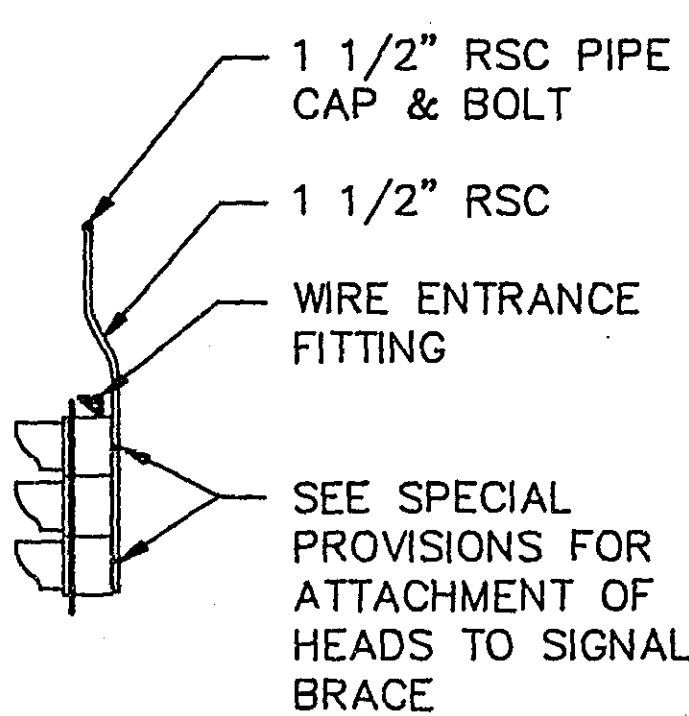
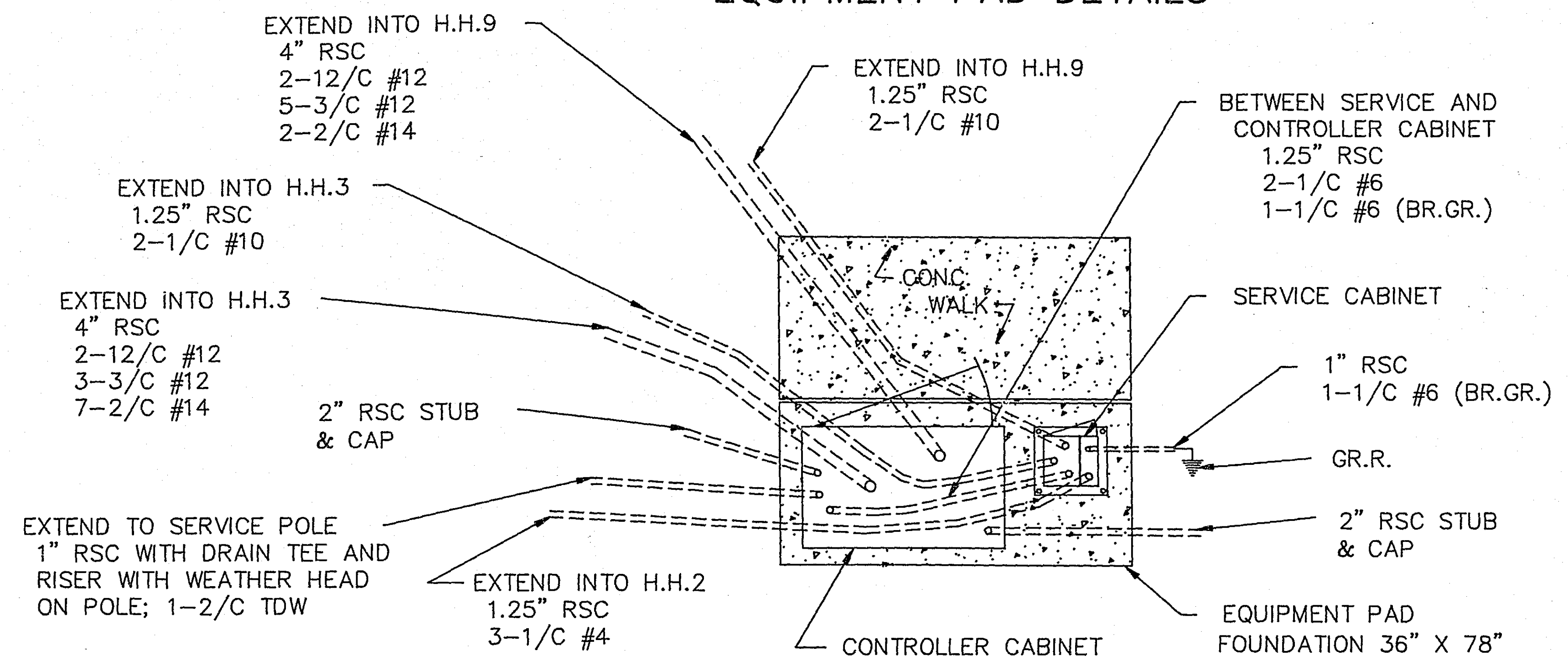
FRONT ELEVATION

SIDE ELEVATION

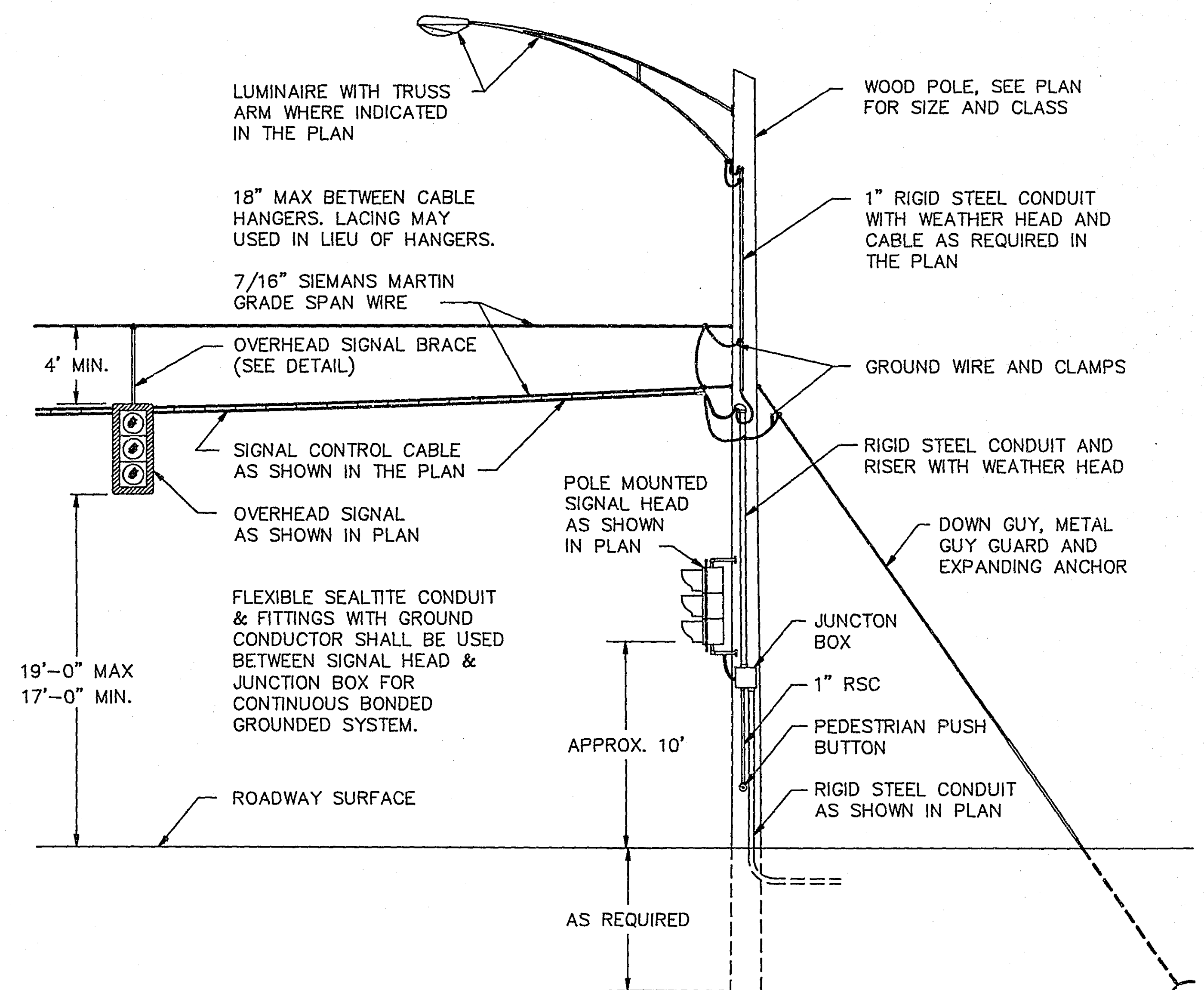


WIRING DIAGRAM

EQUIPMENT PAD DETAILS



OVERHEAD SIGNAL BRACE DETAIL



TYPICAL WOOD POLE AND SPAN WIRE MOUNTED TRAFFIC SIGNAL DETAIL

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
 Daniel E. Siler
 Date 2/19/95 Reg. No. 20452

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ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS
 DONE BY: JPH
 DATE: 2-14-95

DETAILS
 LARPENTUR AVE & FAIRVIEW AVE
 SYSTEM A

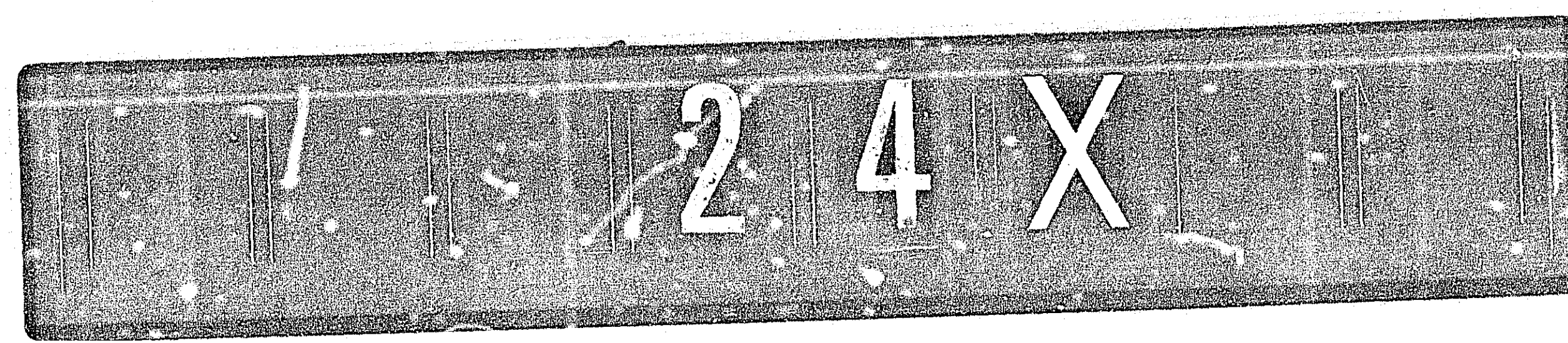
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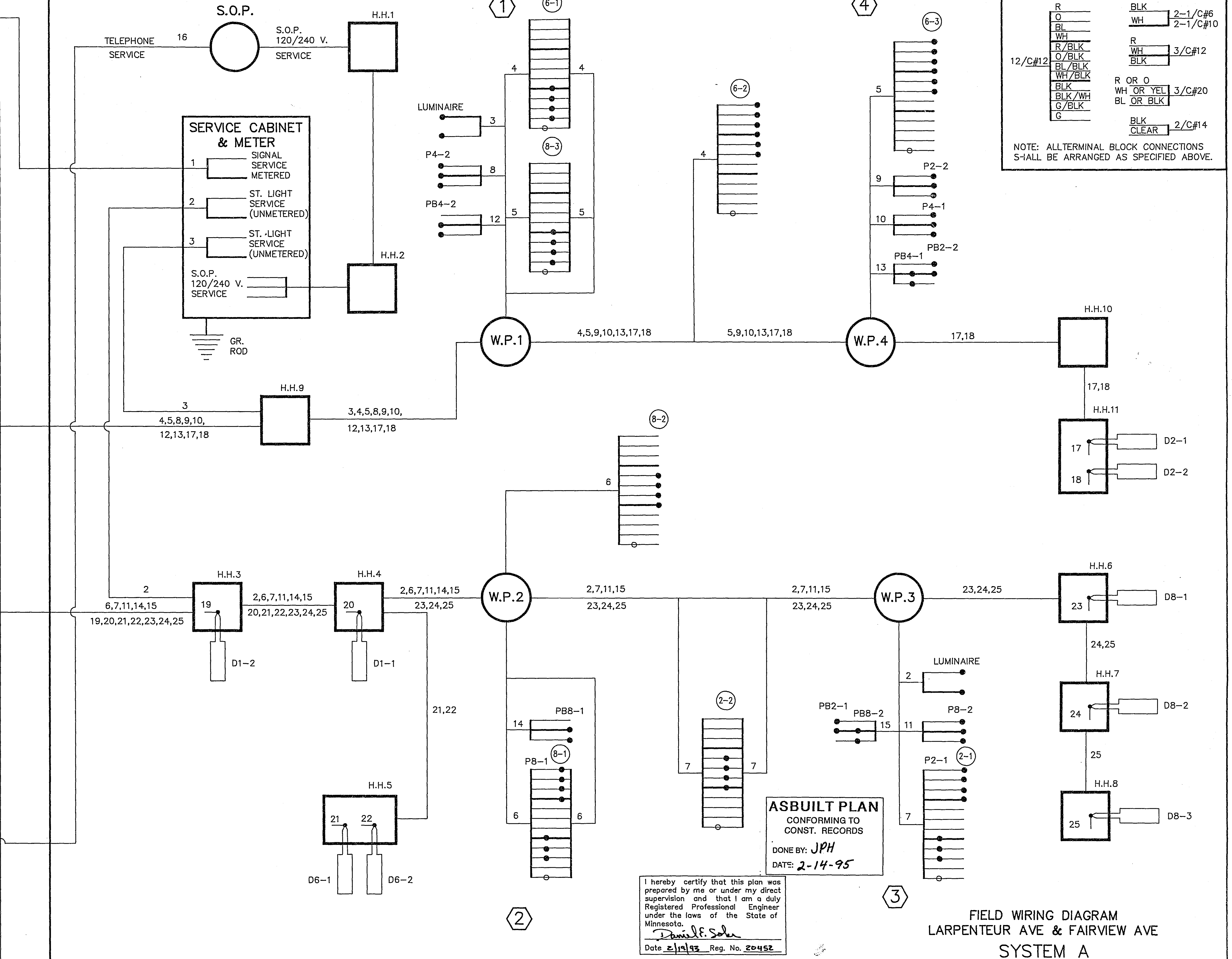
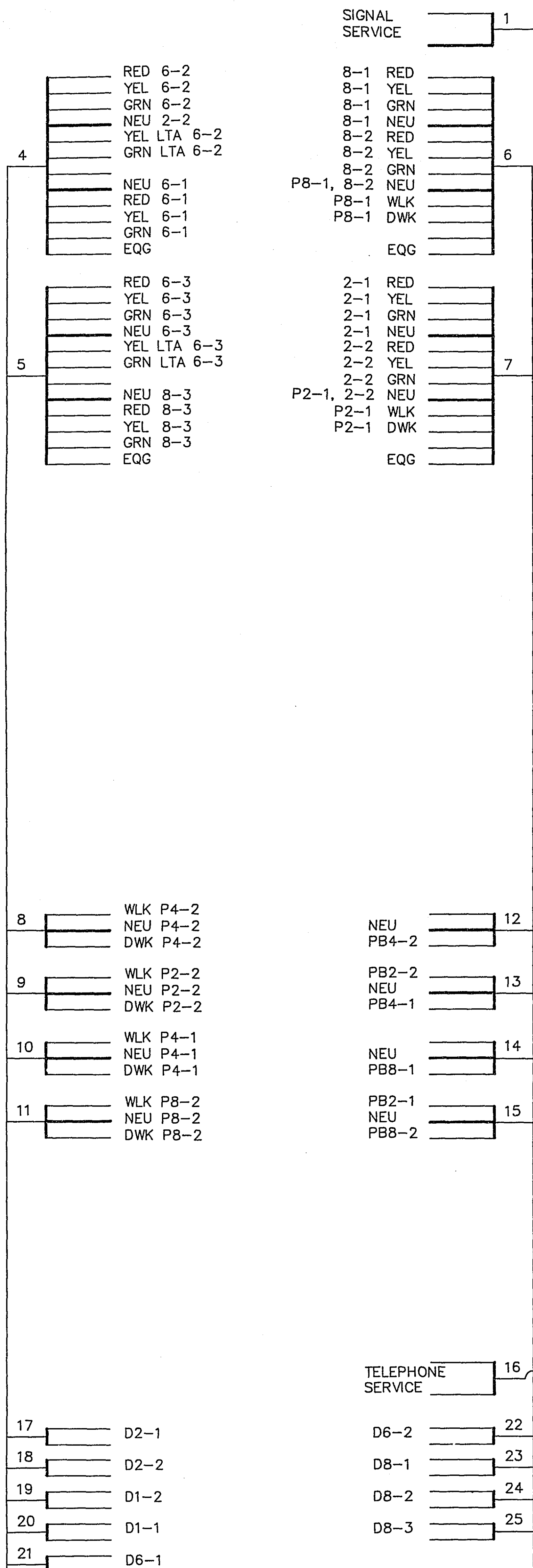
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CONTROLLER CABINET



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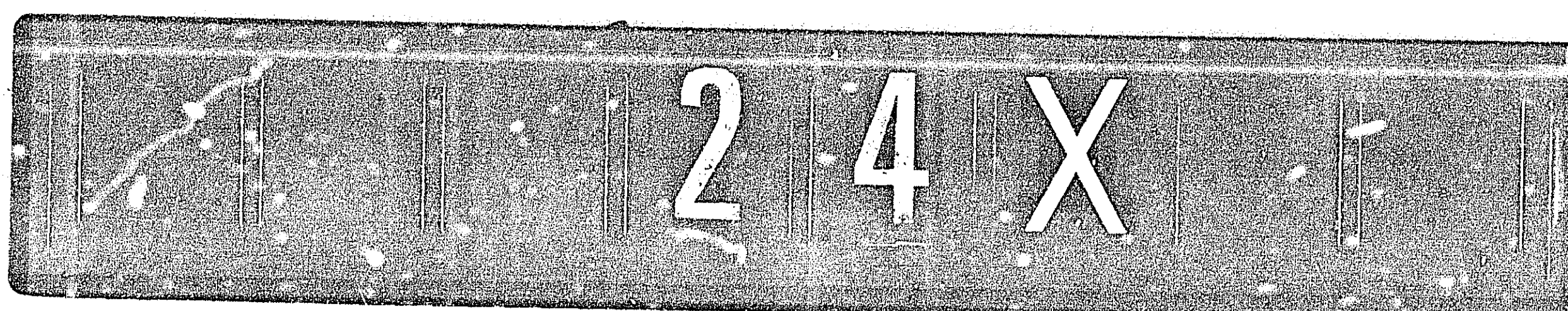
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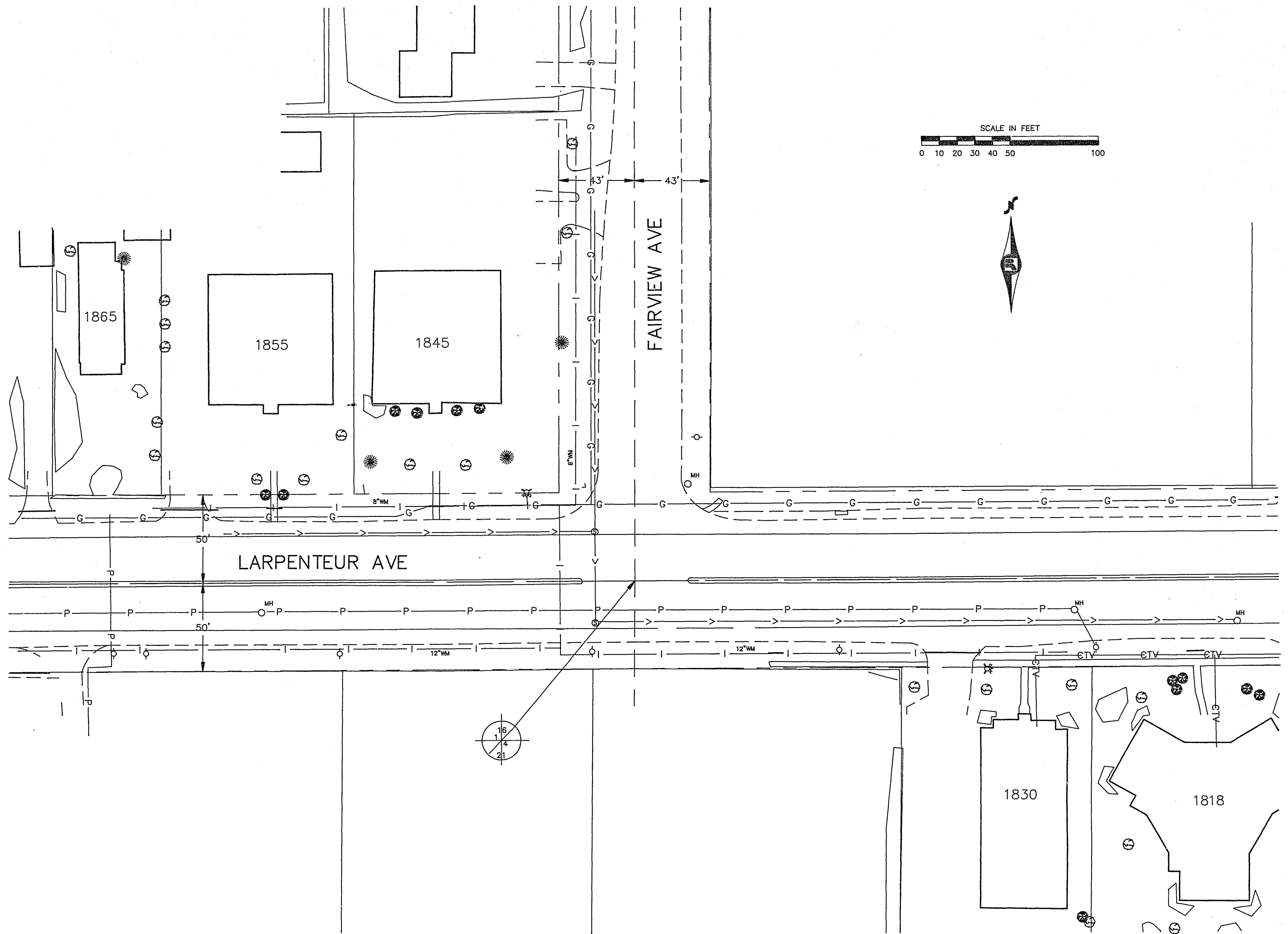
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UTILITIES
LARPENTEUR AVE & FAIRVIEW AVE
SYSTEM A

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