

PLANS SYMBOLS

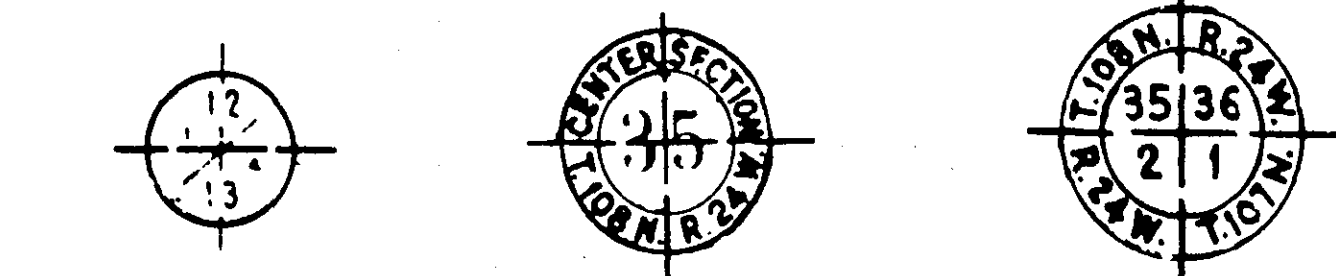
STATE LINE	----
COUNTY LINE	----
TOWNSHIP OR RANGE LINE	----
SECTION LINE	----
QUARTER LINE	----
SIXTEENTH LINE	----
RIGHT OF WAY LINE	----
PRESENT RIGHT OF WAY LINE	----
CONTROL OF ACCESS LINE	----
PROPERTY LINE (Except Land Lines)	----
VACATED PLATTED PROPERTY	----
CORPORATE OR CITY LIMITS	----
TRUNK HIGHWAY CENTER LINE	----
RETAINING WALL	----
RAILROAD	----
RAILROAD RIGHT OF WAY LINE	----
RIVER OR CREEK	----
DRY RUN	----
DRAINAGE DITCH	----
DRAIN TILE	----
CULVERT	----
DROP INLET	----
GUARD RAIL	----
BARBED WIRE FENCE	----
WOVEN WIRE FENCE	----
CHAIN LINK FENCE	----
RAILROAD SNOW FENCE	----
STONE WALL OR FENCE	----
HEDGE	----
RAILROAD CROSSING SIGN	----
RAILROAD CROSSING BELL	----
ELECTRIC WARNING SIGN	----
CROSSING GATE	----
MEANDER CORNER	----

SPRINGS	----
MARSH	----
TIMBER	----
ORCHARD	----
BRUSH	----
NURSERY	----
CATCH BASIN	----
FIRE HYDRANT	----
CATTLE GUARD	----
OVERPASS (Highway Over)	----
UNDERPASS (Highway Under)	----
BRIDGE	----
BUILDING (One Story Frame)	----
F FRAME	----
S STONE	----
T TILE	----
B BRICK	----
ST STUCCO	----
IRON PIPE OR ROD	----
MONUMENT (STONE, CONCRETE, OR METAL)	----
WOODEN HUB	----
GRAVEL PIT	----
SAND PIT	----
BORROW PIT	----
ROCK QUARRY	----

UTILITIES SYMBOLS

POWER POLE LINE	----
TELEPHONE OR TELEGRAPH POLE LINE	----
JOINT TELEPHONE AND POWER ON POWER POLES	----
ON TELEPHONE POLES	----
ANCHOR	----
STEEL TOWER	----
STREET LIGHT	----
PEDESTAL (TELEPHONE CABLE TERMINAL)	----
GAS MAIN	----
WATER MAIN	----

CONDUIT	----
TELEPHONE CABLE IN CONDUIT	----
ELECTRIC CABLE IN CONDUIT	----
TELEPHONE MANHOLE	----
ELECTRIC MANHOLE	----
BURIED TELEPHONE CABLE	----
BURIED ELECTRIC CABLE	----
AERIAL TELEPHONE CABLE	----
SEWER, (SANITARY OR STORM)	----
SEWER MANHOLE	----



NOTE: SECTION NUMBERS READ FROM THE SOUTH.

PIT DATA

PIT NO.	Located in
PIT NO.	Dead Haul
PIT NO.	Located in
PIT NO.	Dead Haul

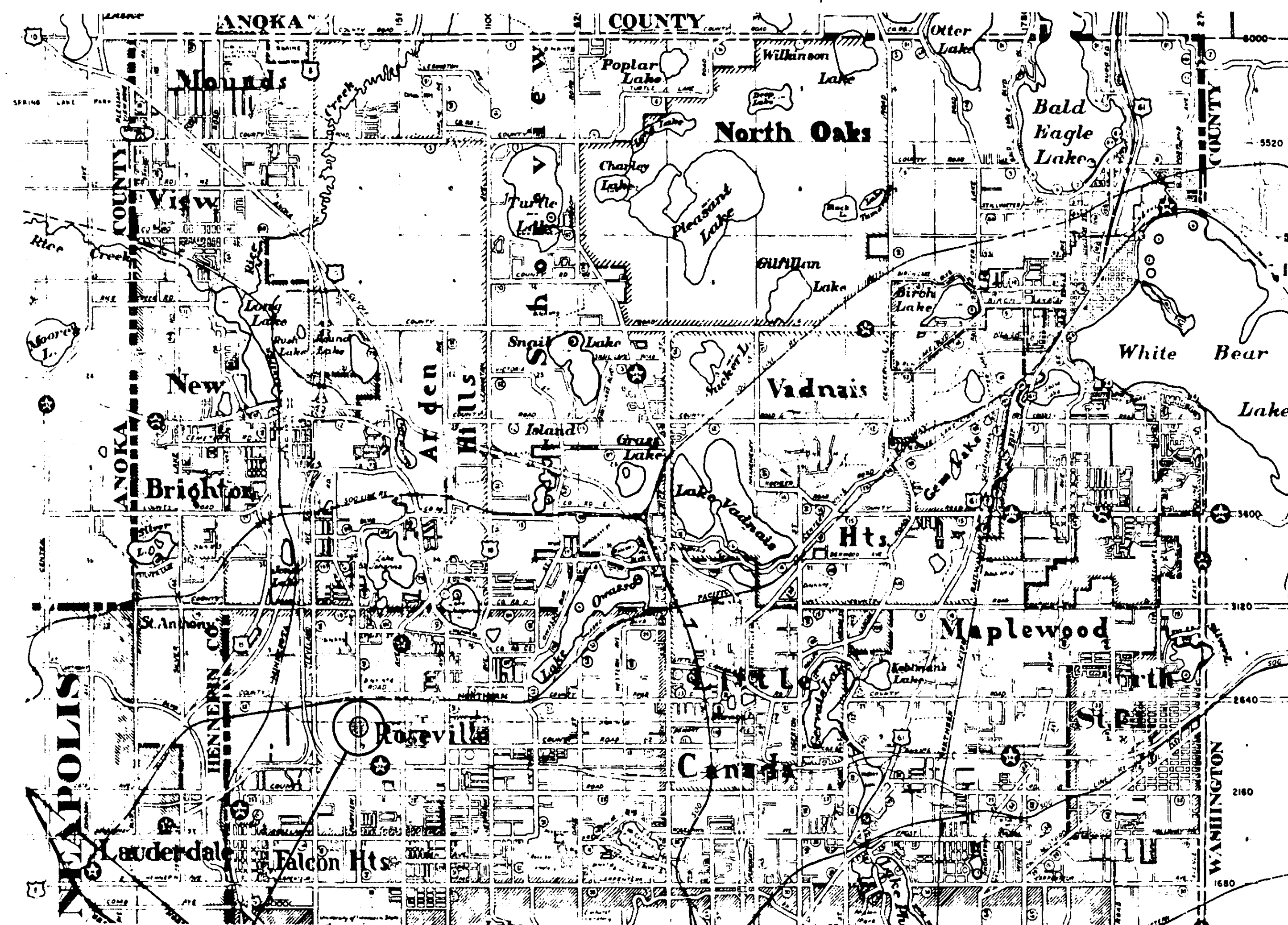
SPECIFICATIONS

THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION DATED JANUARY 1, 1964 AS AMENDED BY "SUPPLEMENTAL SPECIFICATIONS" DATED JANUARY 1, 1968 SHALL GOVERN.

OFFICE OF COUNTY ENGINEER

RAMSEY COUNTY

PLAN OF TRAFFIC CONTROL SYSTEM FOR THE INTERSECTION OF ROSEVILLE FIRE HOUSE ON FAIRVIEW AVE.



CITY OF ST. PAUL

ROSEVILLE PROJ. NO.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2 & 3	DETAILS
4	PLAN
5	WIRING DIAGRAM

DESIGNED BY _____ DATE _____
DIRECTOR OF SAFETY

RECOMMENDED FOR APPROVAL _____ DATE _____
COUNTY ENGINEER

APPROVED _____ DATE _____
CHAIRMAN OF THE RAMSEY COUNTY BOARD

APPROVED _____ DATE _____
MAYOR VILLAGE OF ROSEVILLE

APPROVED _____ DATE _____
VILLAGE ENGINEER

NOT BUILT

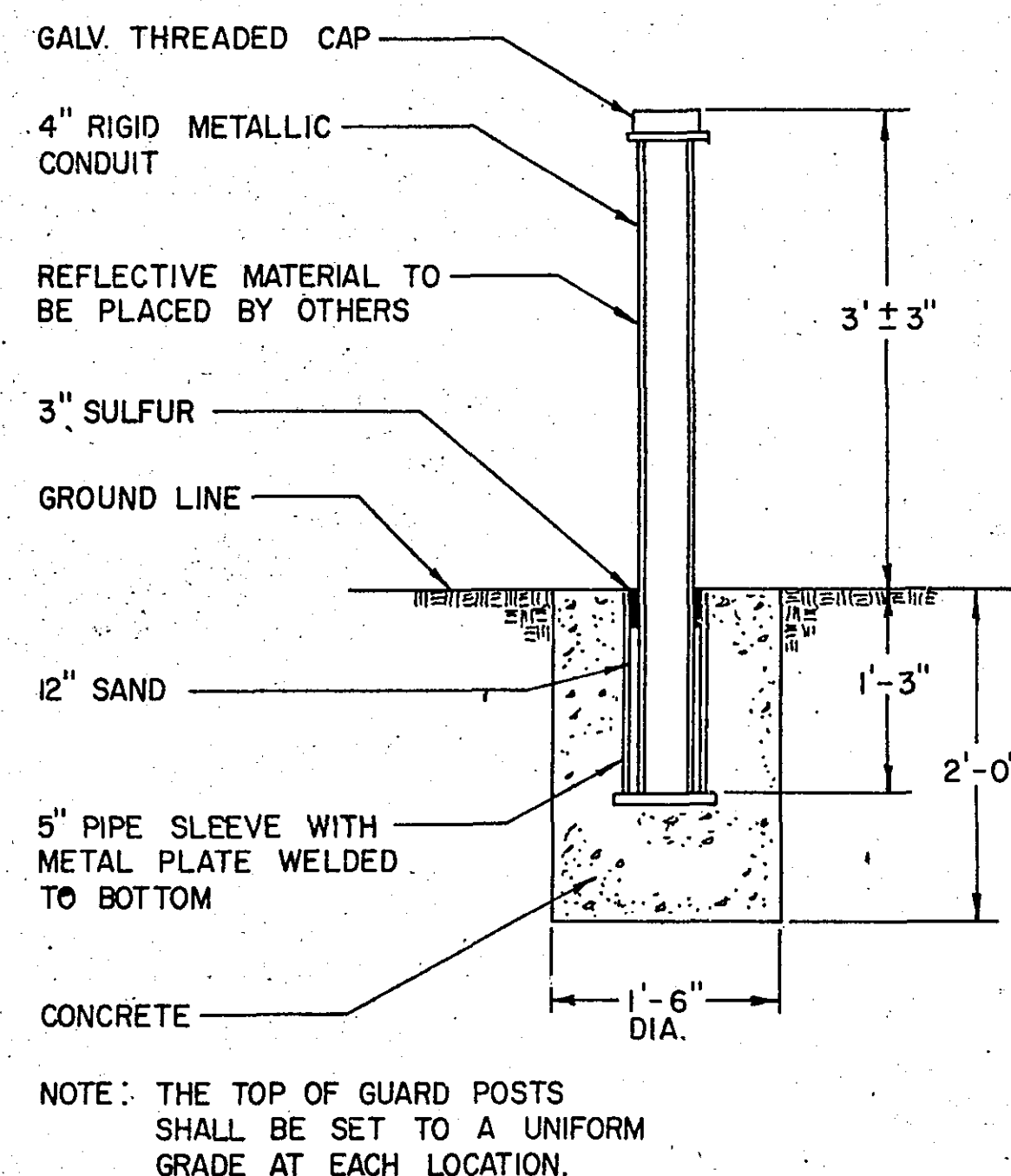
ROSEVILLE PROJ. NO.

Sheet No. 1 of 5 Sheets

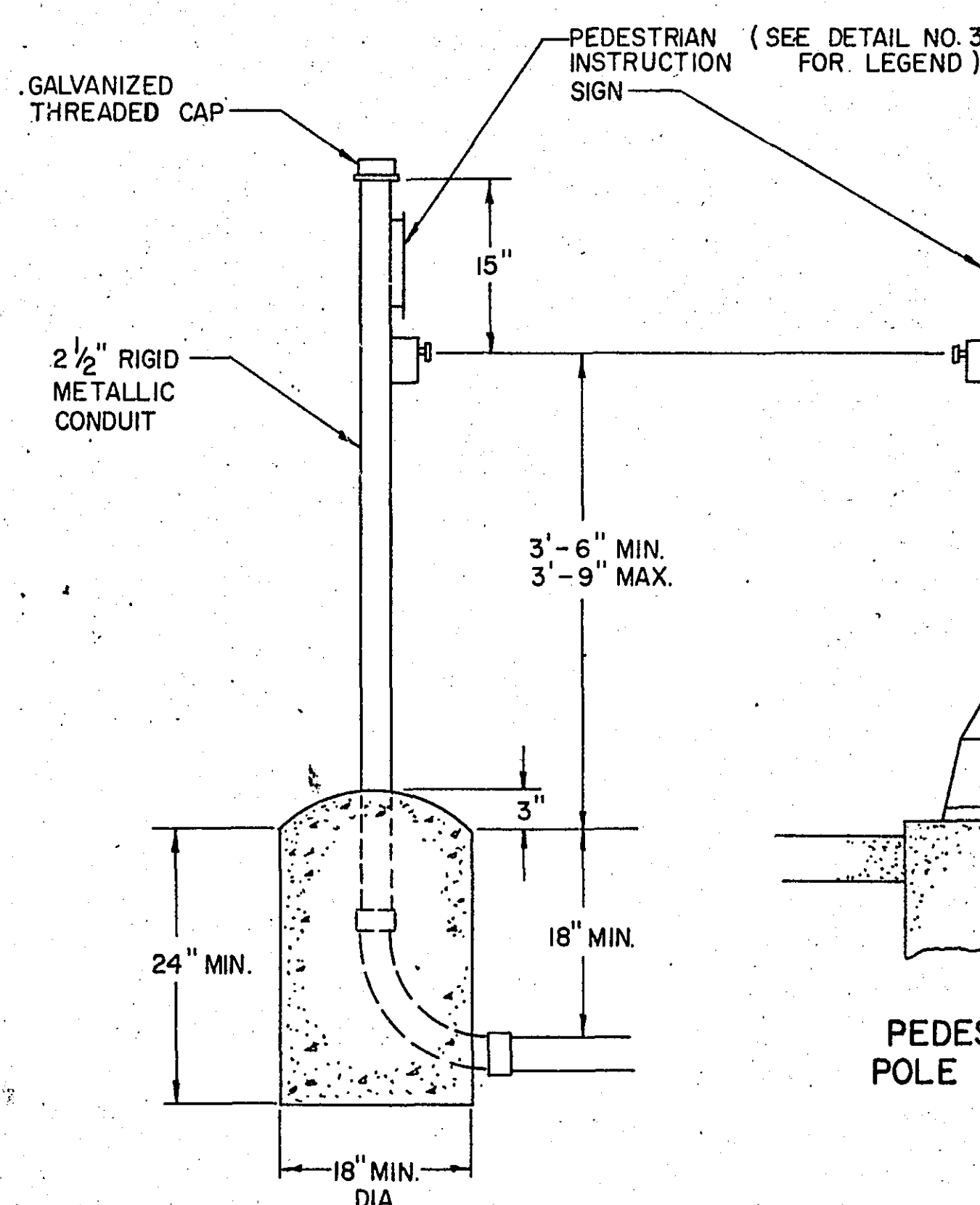
MICROFILMED
RAMSEY CO. ENGR.

17-105

GUARD POST



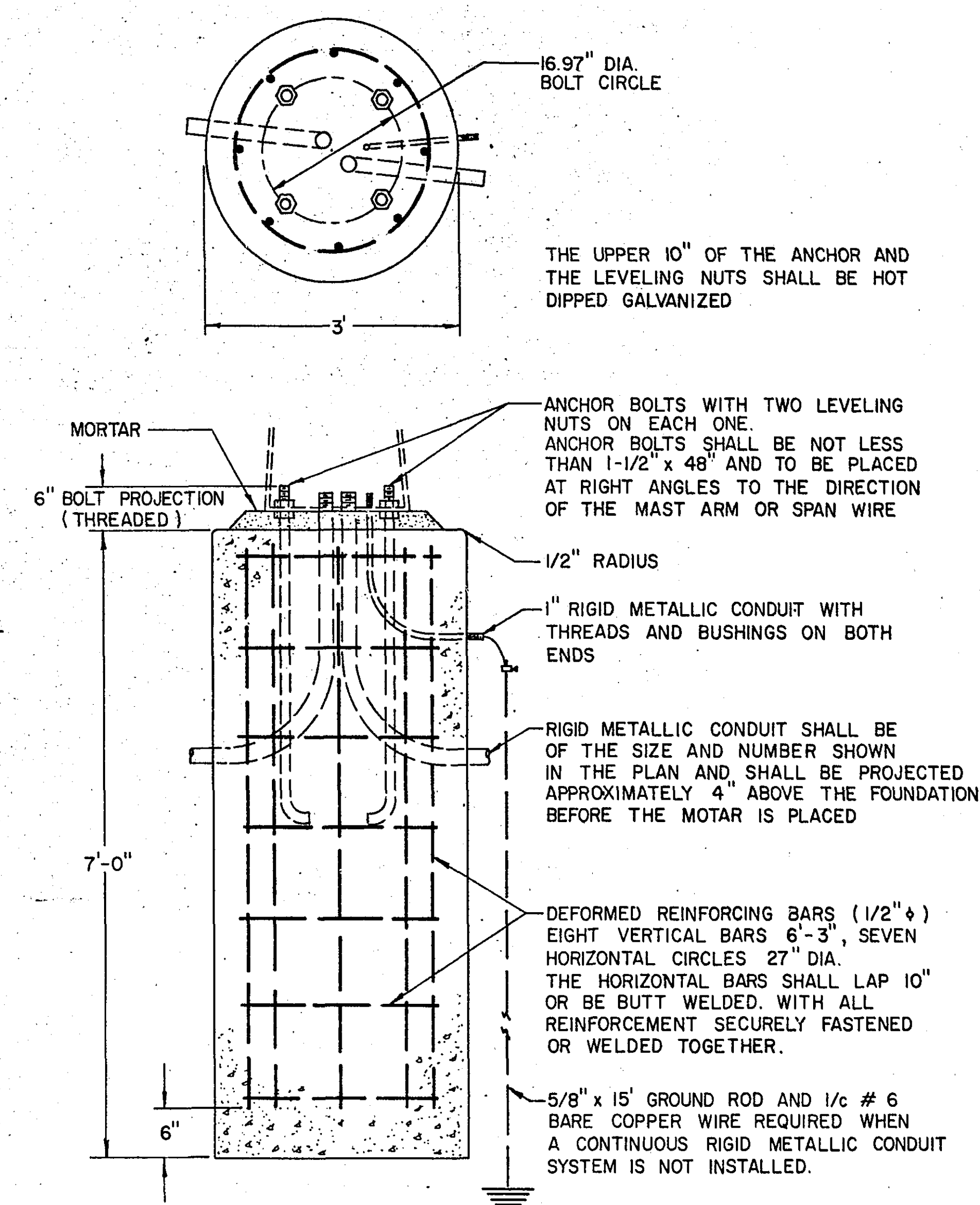
PEDESTRIAN PUSH BUTTON DETAIL NO. 1



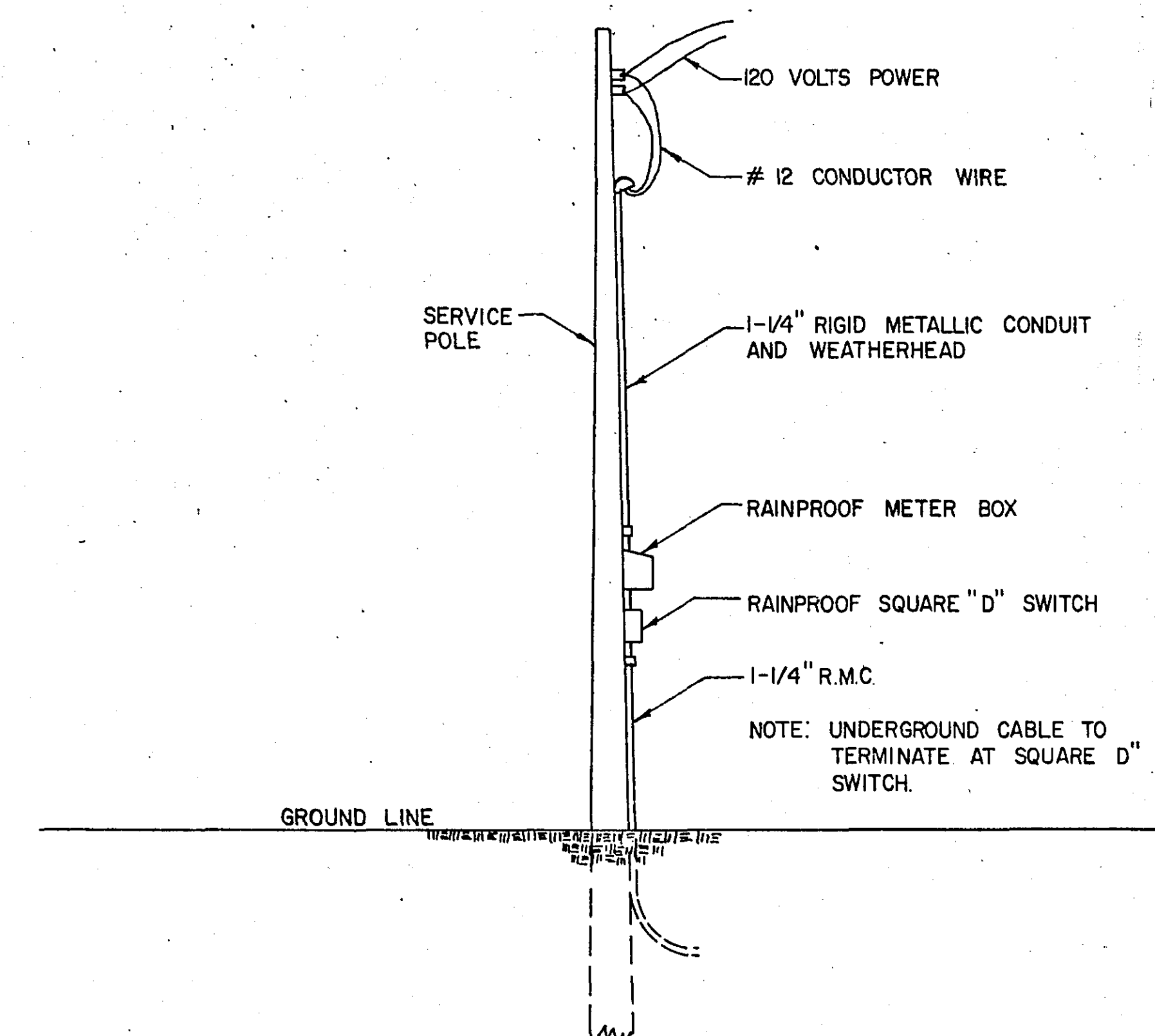
SEPARATE MOUNTING

CONCRETE FOUNDATION

FOR MAST ARM TRAFFIC SIGNAL POLE

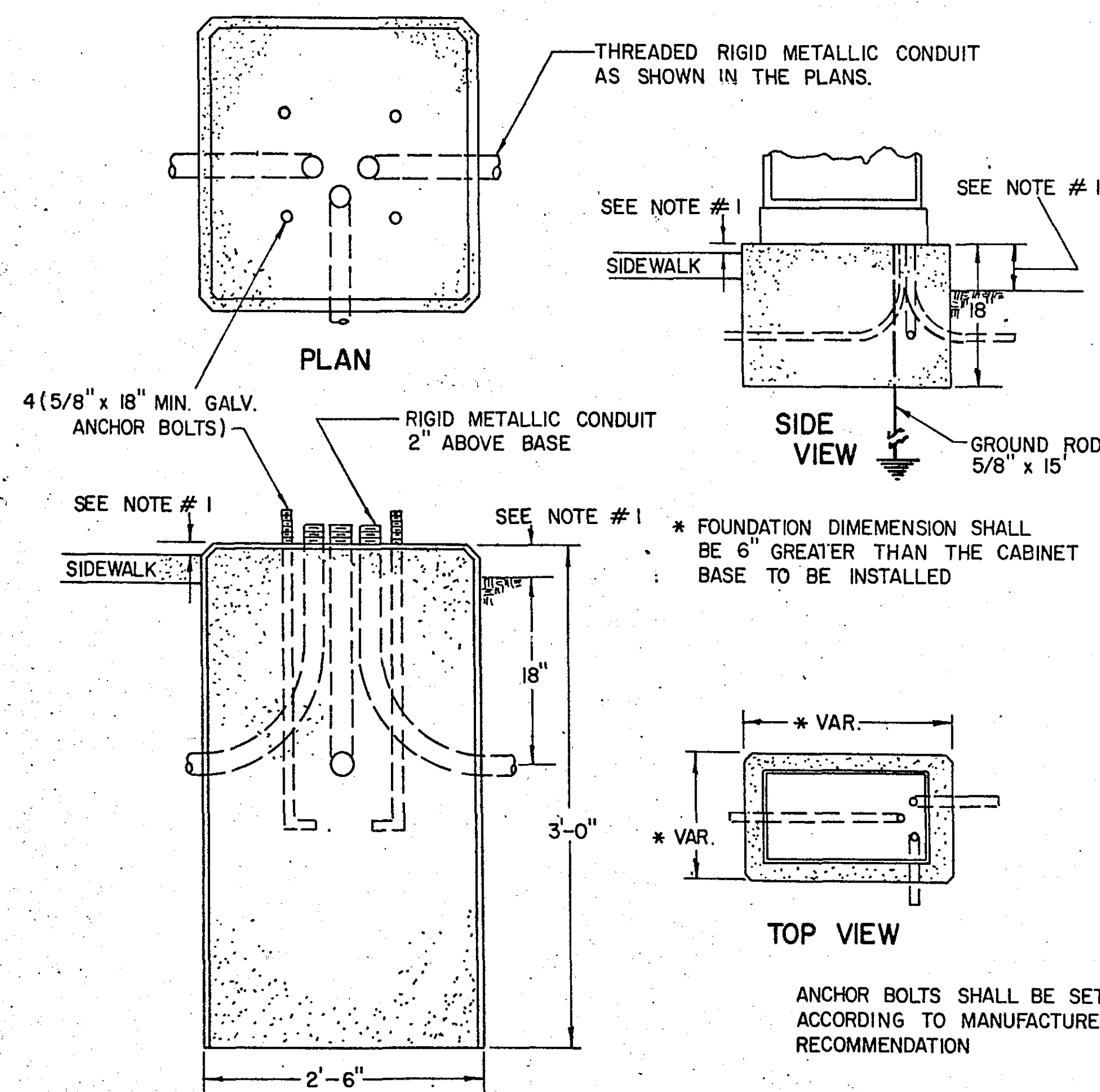


POLE FOR POWER CONNECTION



NOTE # 1

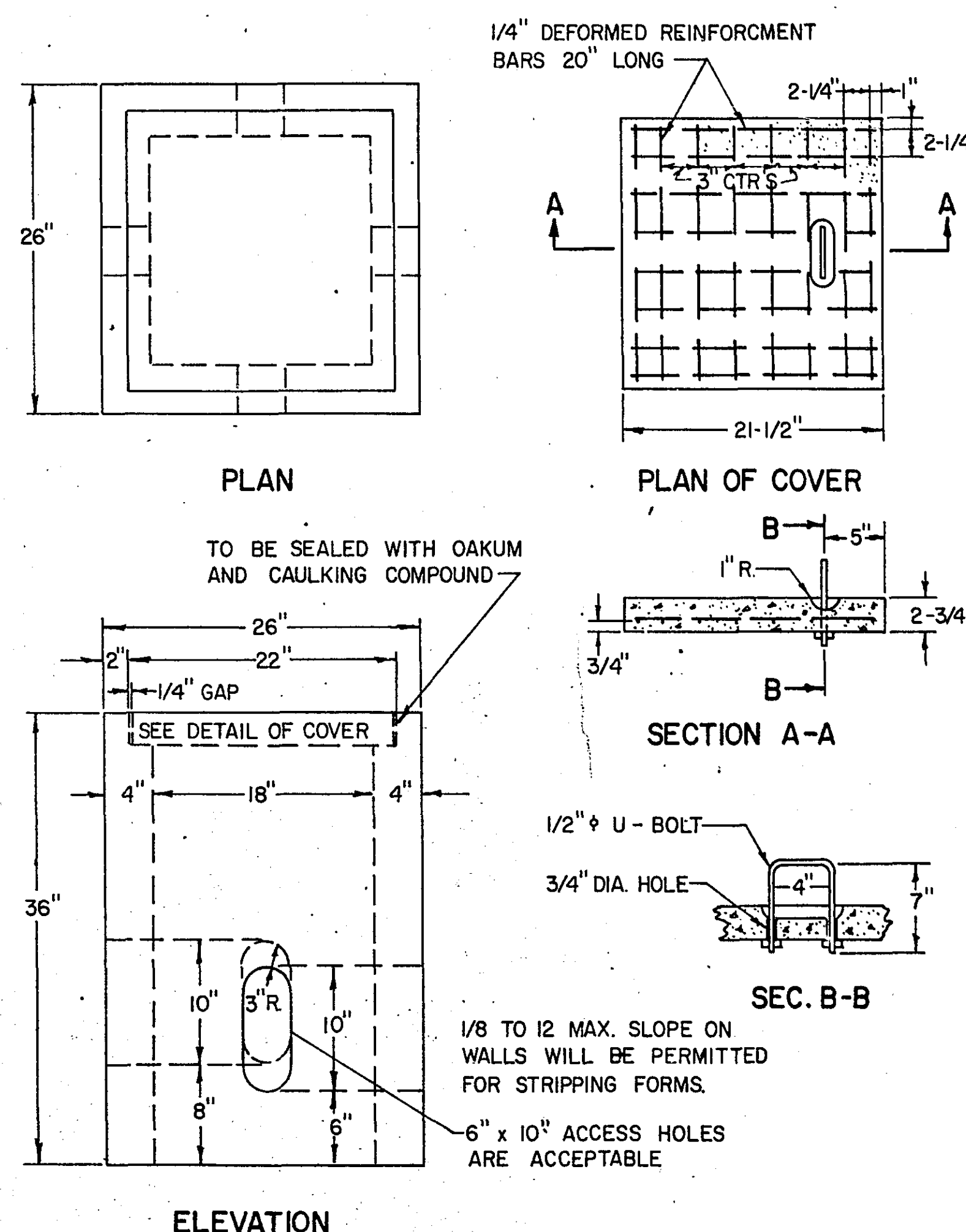
DISTANCE FROM GROUND LINE VARIABLE FROM 1/4\"/>



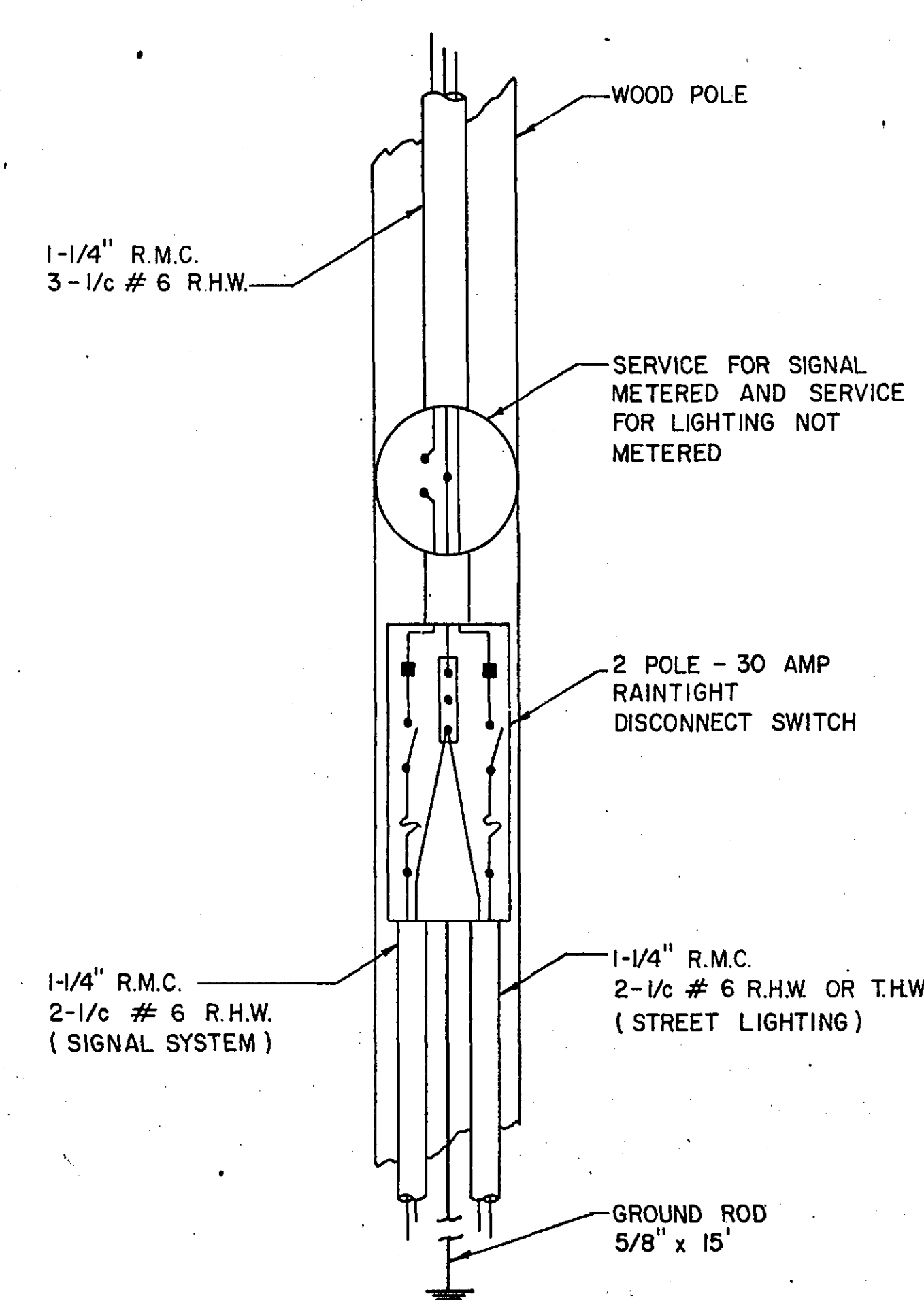
PEDESTAL MOUNTED SIGNALS

GROUND MOUNTED CONTROLLER CABINET

CONCRETE FOUNDATIONS

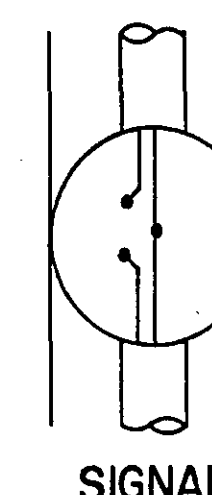


ELEVATION



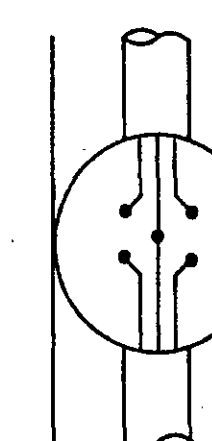
METER AND DISCONNECT SWITCH

SERVICE FOR SIGNAL ONLY (120 VOLTS)



SIGNAL

SERVICE FOR SIGNAL AND LIGHTING METERED (120/240 VOLTS)



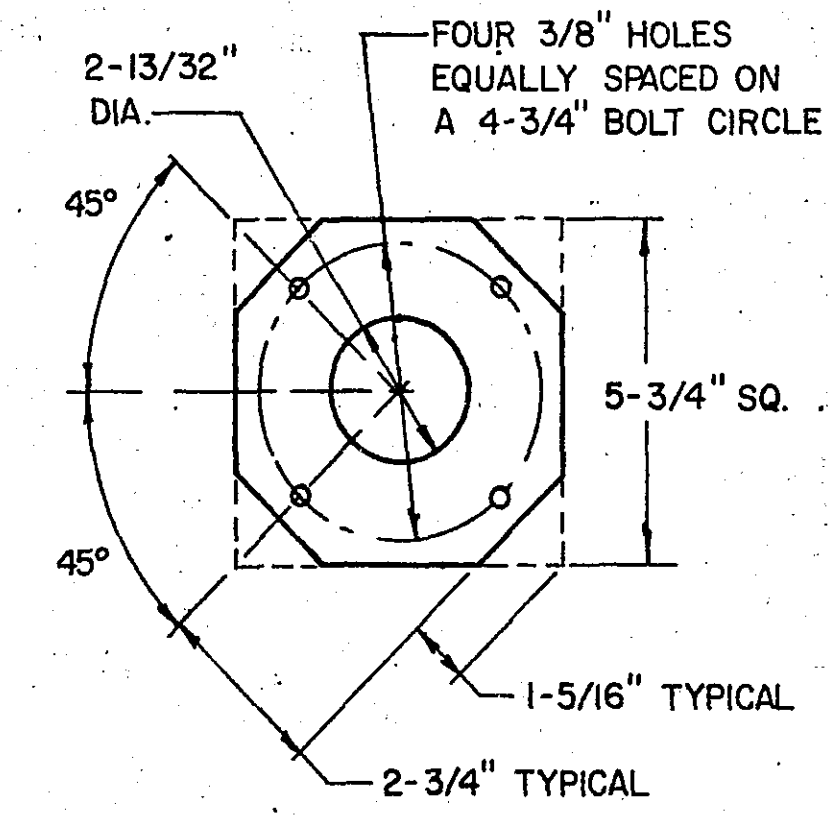
SIGNAL AND LIGHTING

PRECAST CONCRETE HANDHOLE OR PULLBOX

ROSEVILLE PROJ. NO.

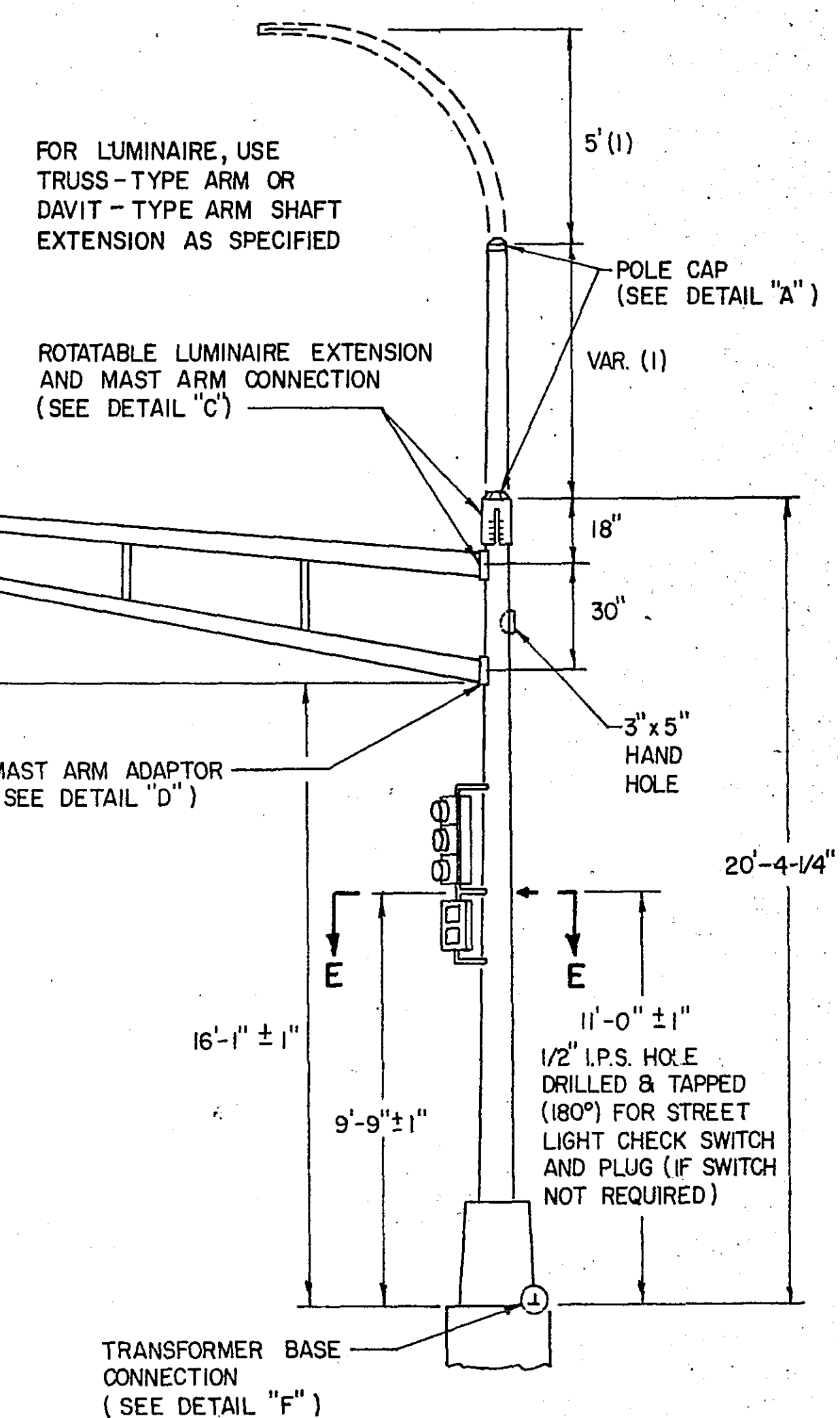
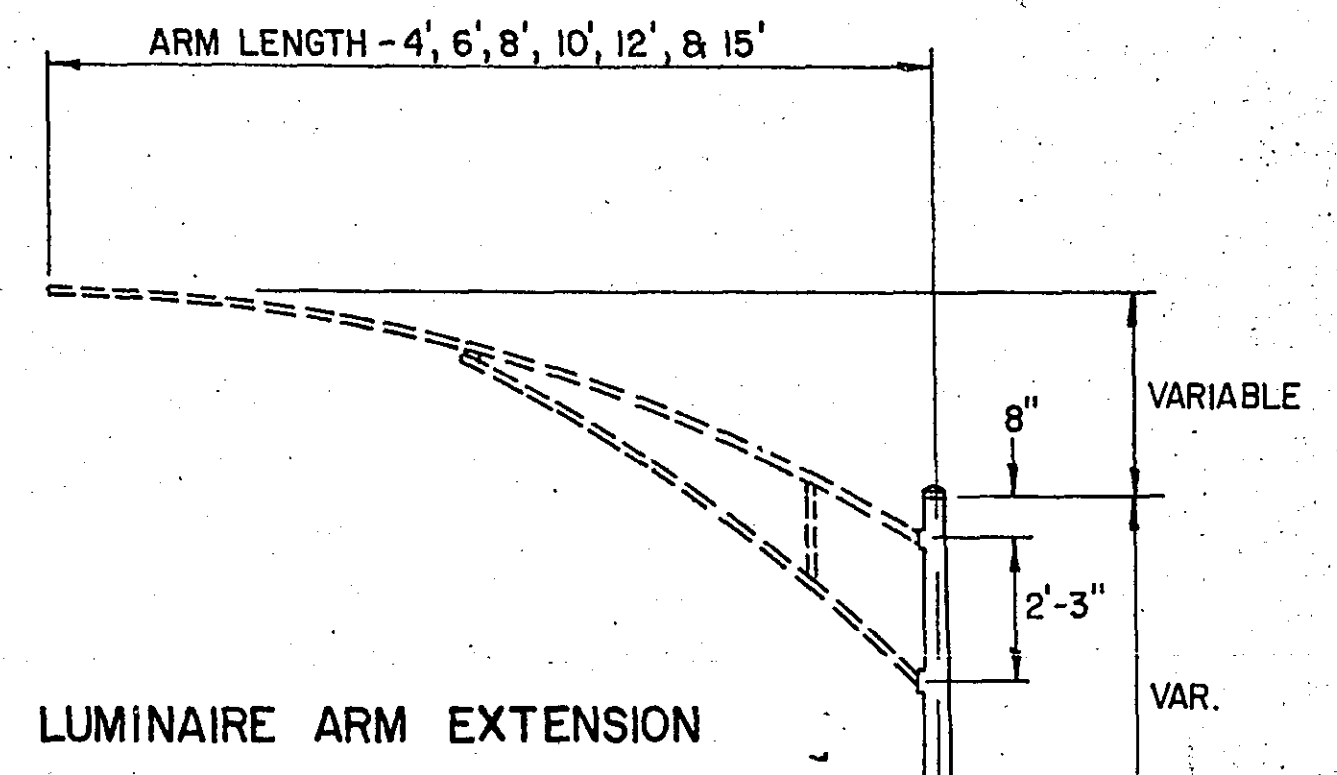
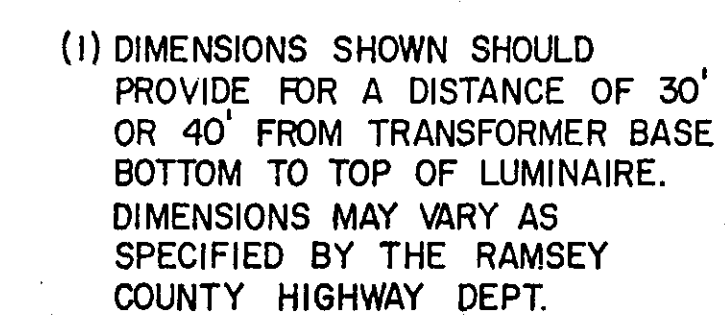
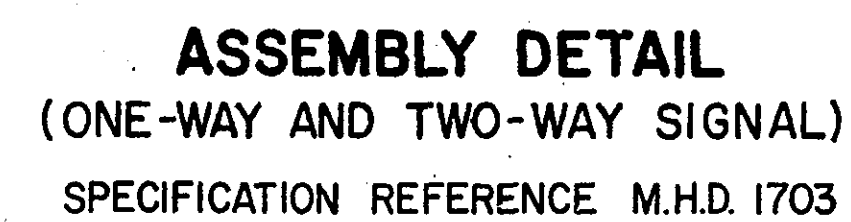
SHEET NO. 2 OF 5 SHEETS

DETAILS
MICROFILMED
RAMSEY CO. ENGR.



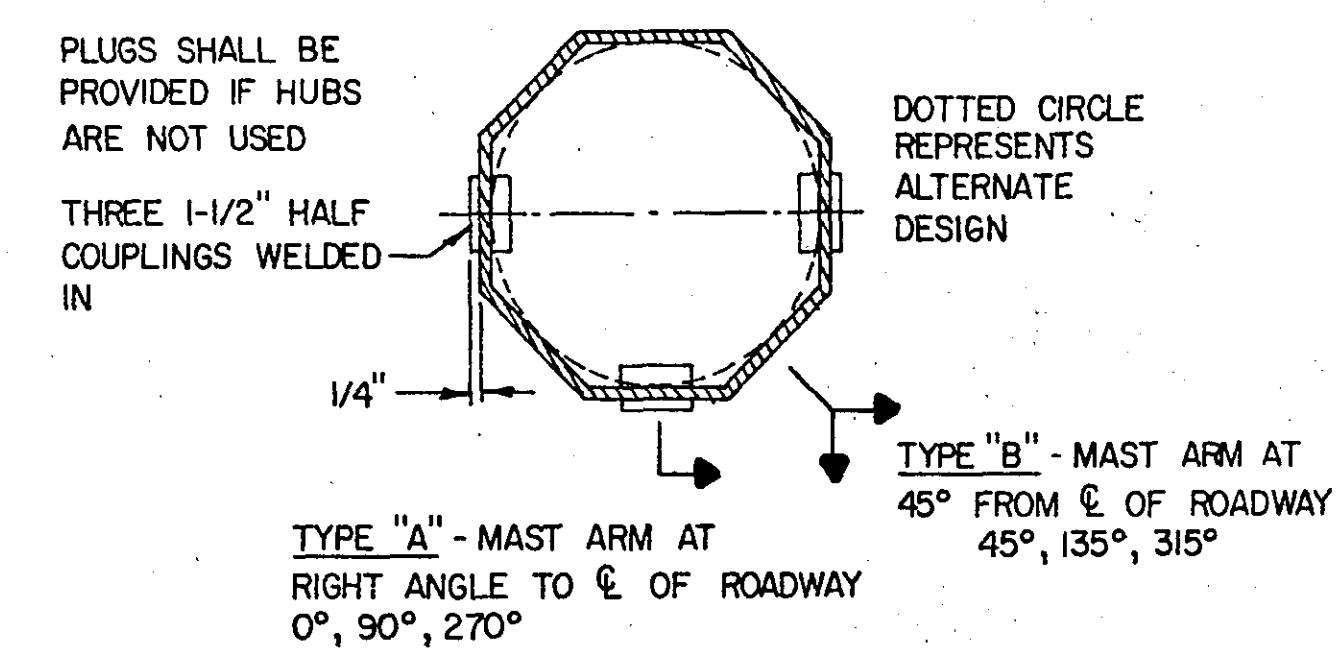
COUPLING FLANGE DETAIL

(ONE-WAY AND TWO-WAY SIGNAL)



ELEVATION

POLE AND MAST ARM



SECTION E-E
POLE-MOUNTED SIGNAL HUB

* NOTES:

TYPE A-20-D30 OR 40-12 TYPE A-20-T 30 OR 40-20
(1) (2) (3) (4) (1) (2) (3) (4)

1. LETTER TYPE INDICATES POLE MAST ARM POSITION WITH RESPECT TO THE $\angle$ OF ROADWAY.
2. NUMBER FOLLOWING TYPE LETTER INDICATES SIGNAL MAST ARM LENGTH.
3. SECOND LETTER INDICATES LUMINAIRE TRUSS -TYPE ARM EXTENSION OR DAVIT-TYPE ARM EXTENSION. SECOND LETTER FOLLOWED BY NUMBERS INDICATES LUMINAIRE MOUNTING HEIGHT.
4. NUMBER FOLLOWING INDICATES LENGTH OF LUMINAIRE TRUSS ARM OR DAVIT ARM.

FOR LUMINAIRE, USE
TRUSS-TYPE ARM OR
DAVIT-TYPE ARM SHAFT
EXTENSION AS SPECIFIED

Diagram illustrating the mounting dimensions and electrical connections for a street lighting fixture:

- Mounting height: $16'-1" \pm 1"$
- Horizontal distance from wall to fixture: $9'-9" \pm 1"$
- Horizontal distance from fixture to pole: $11'-0" \pm 1"$
- Electrical connections: $1/2" \text{ I.P.S. HOE}$ DRILLED & TAPPED (180°) FOR STREET LIGHT CHECK SWITCH AND PLUG (IF SWITCH NOT REQUIRED)

PLUGS SHALL BE
PROVIDED IF HUBS
ARE NOT USED

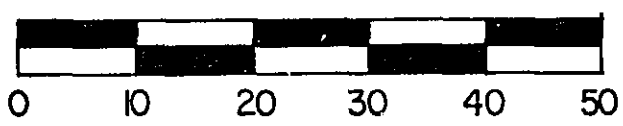
THREE 1-1/2" HALF
COUPLINGS WELDED
IN

DOTTED CIRCLE
REPRESENTS
ALTERNATE
DESIGN

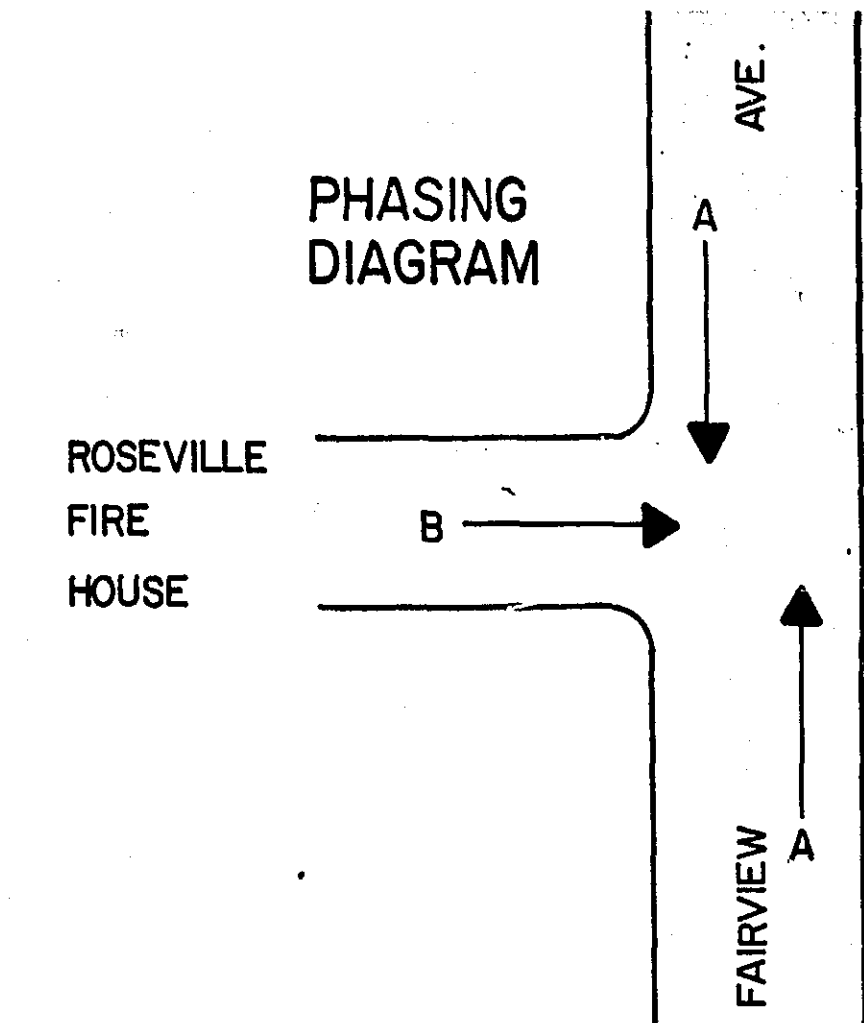
TYPE "A" - MAST ARM AT
RIGHT ANGLE TO $\odot$ OF ROADWAY
0°, 90°, 270°

DETAILS
MICROFILMED
RAMSEY CO. ENGR.

ROSEVILLE FIRE HOUSE ON FAIRVIEW AVE.



LEGEND OF SYMBOLS	
	CONTROLLER
	PEDESTAL
	HANDHOLE (PULLBOX)
	RIGID METALLIC CONDUIT (R.M.C.)
	SOURCE OF POWER (S.O.P.)
	MAST ARM & POLE
	SIGNAL FACE
	SIGNAL FACE WITH BACKGROUND SHIELD
	MAST ARM & LUMINAIRE
	PUSH BUTTON STATION



FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
A1	A	R	12"	12"	12"	-	-	-
A2	A	R	12"	12"	12"	-	-	-
A3	A	R	12"	12"	12"	-	-	-
A4	A	R	12"	12"	12"	-	-	-
B1	B	Y	12"	12"	12"	-	-	-
B2	B	Y	12"	12"	12"	-	-	-

