

SAND MOUNTAIN ELECTRIC COOPERATIVE MOBILE HOME INSTALLATION GUIDELINES

SERVICE REQUIREMENTS

Must complete application

Must pay construction cost and deposit

Must obtain building or parking permit

(Rainsville, Hammondville & Collinsville must obtain from the City Hall)

Must obtain easements for right of way

Must obtain meterbase from SMEC

Must obtain pole and guy location – required after mobile home is located on property.

POLE REQUIREMENTS

Must be factory treated for earth contact to prevent decay

Must be at least 4' in the ground and guyed (if required)

Must be provided and installed by customer

Must be at least 20' long. Must be six (6) inches in diameter at top of pole.

Must be installed a maximum of 30' from the structure being serviced.

CONDUIT OR SERVICE ENTRANCE CABLE TYPE:

Weatherhead to outside disconnect:

Rigid or EMT with rain tight fittings.

Outside disconnect to inside panel:

Rigid, metallic and non-metallic or EMT

Pole 2' or less from mobile home

Conduit may be buried or above ground

Pole over 2' from mobile home

Conduit must be buried

**NOTE: EMT CONDUIT IS NOT APPROVED FOR BURIAL
USE SCHEDULE 40 OR SCHEDULE 80 PVC, OR RIGID METAL.**

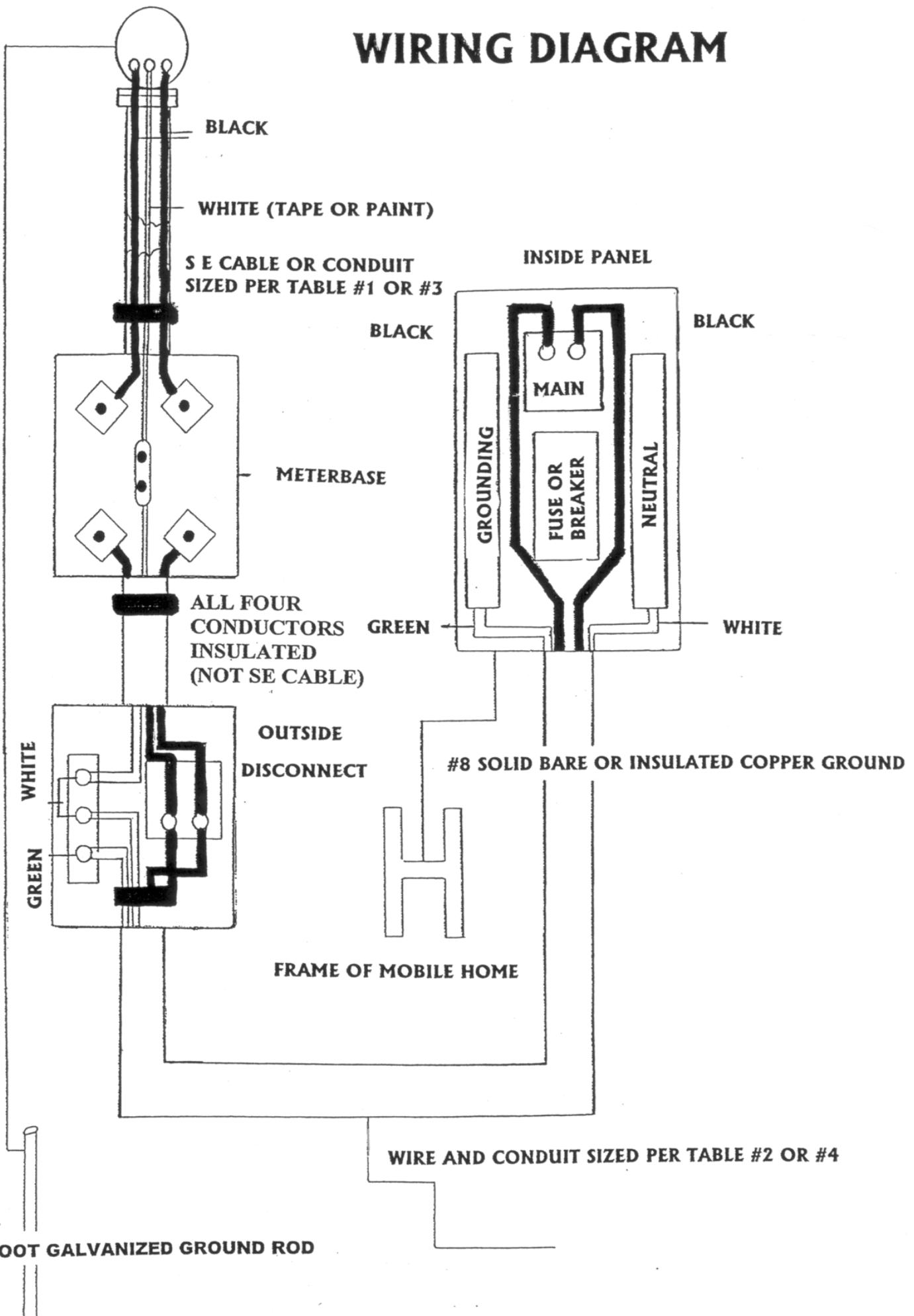
**NOTE: DO NOT USE SERVICE ENTRANCE CABLE FROM
DISCONNECT INTO INSIDE PANEL OF HOME**

**NEC REQUIRES CUSTOMER OWNED POLE TO BE WITHIN 30' OF MOBILE HOME. IF FURTHER
IN DISTANCE A SECOND DISCONNECT WILL BE REQUIRED.**

WIRING DIAGRAM

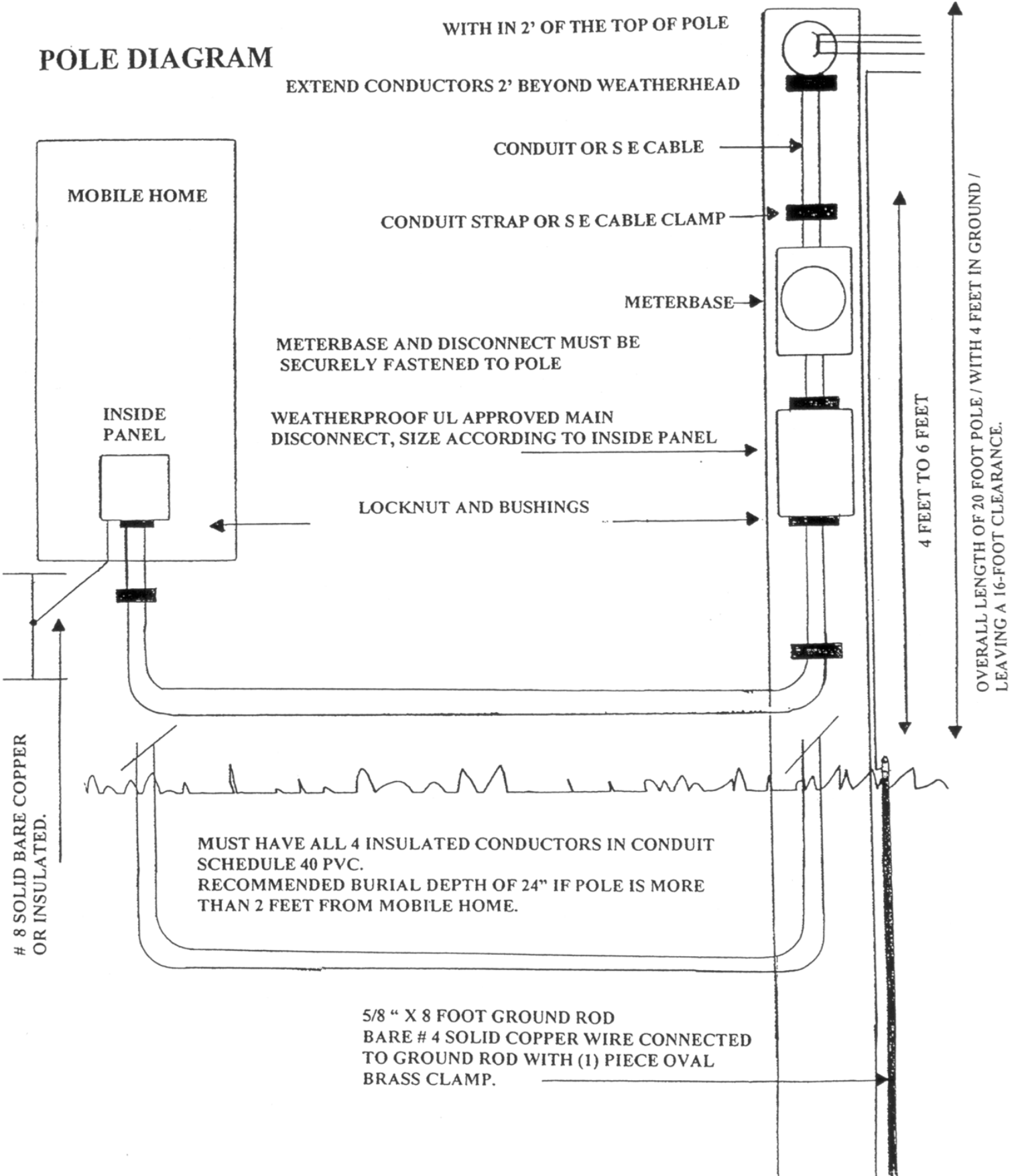
DO NOT CUT #4 BARE COPPER GROUND.
IT MUST BE A CONTINUOUS PIECE FROM
GROUND ROD TO METERBASE

#4 SOLID BARE COPPER



**MOBILE HOME MUST BE IN PLACE
AT TIME OF INSPECTION!**

POLE DIAGRAM



MINIMUM CONDUIT AND WIRE SIZE

TABLE 1. Wire Size from Weatherhead to:

OUTSIDE DISCONNECT

| COPPER | 60A | 100A | 125A | 150A | 200A |
|--------------|-----|--------|--------|------|------|
| 2-Black | 6 | 4 | 2 | 1 | 2/0 |
| 1-White | 8 | 8 | 8 | 6 | 4 |
| Conduit Size | 1" | 1 1/4" | 1 1/4" | 2" | 2" |

TABLE 3.

ALUMINUM

| | | | | | |
|--------------|--------|--------|-----|-----|-----|
| 2-Black | 4 | 2 | 1/0 | 2/0 | 4/0 |
| 1-White | 6 | 6 | 6 | 4 | 2 |
| Conduit Size | 1 1/4" | 1 1/2" | 2" | 2" | 2" |

TABLE 2. Wire Size from Outside Disconnect to:

INSIDE PANEL

| COPPER | 60A | 100A | 125A | 150A | 200A |
|--------------|--------|--------|--------|------|------|
| 2-Black | 6 | 4 | 2 | 1 | 2/0 |
| 1-White | 8 | 8 | 8 | 6 | 4 |
| 1-Green | 10 | 10 | 8 | 6 | 6 |
| Conduit Size | 1 1/4" | 1 1/4" | 1 1/4" | 2" | 2" |

TABLE 4.

ALUMINUM

| | | | | | |
|--------------|--------|--------|-----|-----|-----|
| 2-Black | 4 | 2 | 1/0 | 2/0 | 4/0 |
| 1-White | 6 | 6 | 6 | 4 | 2 |
| 1-Green | 8 | 6 | 6 | 4 | 4 |
| Conduit Size | 1 1/4" | 1 1/2" | 2" | 2" | 2" |

All wire must be temperature rated for 75 degree C (Distributor Requirement)

CONDUCTOR TYPES: Above ground in conduit – RH, WHH, RHW, RUH, THHN, THW, THWN, XHHW, and USE. Underground in conduit– RHW, THW, THWN, XHHW, USE. Direct burial USE (identified for underground use)

FOUR (4) INSULATED CONDUCTORS: Feeder from outside disconnect to inside panel shall consist of four (4)–insulated conductors sized and colored per Tables No. 2 & 4.

ALUMINUM CONDUCTORS: If aluminum wire is used, it shall be listed by the Underwriters Laboratory and all connections shall be approved for use with aluminum conductors and coated with oxide inhibitor.

POWER SUPPLY CORD: Mobile homes equipped with power supply cord and plug rated 40A or 50A shall be connected to outside service equipment through compatible female plug and shall be protected by a breaker or fuse of equal rating.

GROUNDING: A 5/8" x 8' galvanized steel or copper clad ground rod shall be driven 8' into ground No. 4 CU solid wire shall connect the ground rod to service neutral at the weatherhead.