NOTES
1. MOBILE HOMES EQUIPPED WITH A POWER SUPPLY CORD AND A PLUG WITH A RATING OF 40 OR 50 AMPS SHALL BE CONNECTED TO OUTSIDE SERVICE EQUIPMENT THROUGH A COMPATIBLE FEMALE RECEPTACLE AND SHALL BE PROTECTED BY A CIRCUIT BREAKER OR FUSE OF EQUAL RATING. SEE SPECIFICATION MH-5 FOR SERVICE REQUIREMENTS.

2. MOBILE HOME PARKS AND GROUPS OF TRAILERS WILL BE ENGINEERED ON AN INDIVIDUAL BASIS BY CO-OP PER NATIONAL ELECTRICAL SAFETY CODE.

3. ANTIOXIDANT COMPOUND IS REQUIRED ON ALL CONNECTIONS TO ALUMINUM CONDUCTORS.

DATE: 2-11-5
DRAWN BY: S.T.W
APPD BY: ____________

MOBILE HOME / TRAILER
OVERHEAD SERVICE POLE
STANDARD ELECTRIC SERVICE
REQUIREMENTS CULLMAN ELECTRIC
COOPERATIVE CULLMAN, ALABAMA

SPEC. NO. MH-3

TRAILER SERVICE POLE: 20 FT. LONG, PRESSURE TREATED, MINIMUM 6" DIAMETER, ROUND, PROVIDED AND INSTALLED BY CUSTOMER. GUARDING MAY BE REQUIRED IF DICTATED BY SOIL CONDITIONS. HEIGHT TO BE INCREASED IF REQUIRED FOR CLEARANCE OVER DRIVEWAYS, ETC.

WEATHERHEAD: LEAVE 2'-0" OF EACH CONDUCTOR EXTENDING OUT FOR DRAIN LOOP. NEUTRAL CONDUCTOR SHALL BE MARKED WHITE.

SERVICE ENTRANCE CONDUCTORS SHALL BE MINIMUM #2 COPPER OR #2 ALUMINUM. MINIMUM 1½" RIGID GALVANIZED STEEL CONDUIT IS RECOMMENDED, BUT OTHER CONDUTS MEETING NEC ARTICLE 230.50 ARE ACCEPTABLE. WHERE THE CABLE IS NOT SUBJECT TO PHYSICAL DAMAGE, TYPE SE SERVICE ENTRANCE CABLE IS PERMISSIBLE. WHEN TYPE "SE" CABLE IS USED, THE CABLE SHALL BE FORMED IN A GOOSENECK TO CREATE A WEATHERHEA AND TAPED WITH A SELF-SEALING WEATHER RESISTANT THERMOPLASTIC NEC ARTICLE 230.54(b).

FOR SERVICE ENTRANCE CONDUCTOR SIZES (FROM WEATHERHEAD TO METER BASE) SEE SPEC. MH-4.

MOUNTING SUPPORTS SHALL SUFFICIENTLY SUPPORT THE CABLE OR RACEWAY (NEC 230.51).

HUB OR WEATHERPROOF CONNECTOR

SERVICE EQUIPMENT INCLUDES A CO-OP APPROVED METER BASE PLUS AN OUTSIDE MAIN DISCONNECT CONSISTING OF EITHER A CIRCUIT BREAKER OR A SWITCH AND FUSES. SERVICE EQUIPMENT MUST BE DEAD FRONT (NO LIVE EXPOSED PARTS), WEATHERPROOF, AND SECURELY FASTENED TO POLE WITH 2 OR MORE NON-CORROSIVE SCREWS THAT PENETRATE POLE 1½".

INSULATED "HOT LEGS"
INSULATED NEUTRAL CONDUCTOR, IDENTIFIED
#4 COPPER EQUIPMENT GROUNDING CONDUCTOR, GREEN
LOCKNUT AND BUSHING

GROUNDING CONDUCTOR SHALL BE #4 BARE COPPER UNLESS A LARGER CONDUCTOR IS REQUIRED BY THE NATIONAL ELECTRIC CODE, LATEST REVISION (TABLE 250.66). THE MEMBER SHALL PROPERLY SECURE THE GROUNDING CONDUCTOR.

APPROVED SOLID BRASS GROUND CLAMP INSTALLED AND MAINTAINED BY CUSTOMER, SHALL BE ATTACHED TO AN APPROVED GROUNDING ELECTRODE (NEC 250.52).

NEC APPROVED GROUND ROD (NEC 250.52) WHICH MEETS REQUIREMENTS OF NEC 250.56.
FOR MINIMUM CONDUCTOR SIZES SEE TABLE BELOW:

<table>
<thead>
<tr>
<th>OUTSIDE MAIN DISCONNECT</th>
<th>MAXIMUM INSIDE MAIN</th>
<th>SERVICE ENTRANCE AND FEEDER CONDUCTORS</th>
<th>EQUIPMENT GROUNDING CONDUCTOR</th>
<th>GROUNDING ELECTRODE CONDUCTOR (TO ROD)</th>
<th>MINIMUM CONDUIT SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 AMP</td>
<td>100 AMP</td>
<td>2-4/0 ALUMINUM, 1-4/0 NEUTRAL OR 2-4/0 COPPER, 1-4/0 NEUTRAL</td>
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<td>1/4&quot;</td>
</tr>
<tr>
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<td>200 AMP</td>
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<td>1-4/0 INSUL. COPPER GREEN</td>
<td>#4 BARE COPPER</td>
<td>2&quot;</td>
</tr>
</tbody>
</table>

1. CONDUCTOR INSULATION, IN CONDUIT ABOVE GROUND, MUST BE: RH, RHH, THHW, THW, THIN, XHHW OR USE

2. CONDUCTOR INSULATION, IN CONDUIT BELOW GRADE, ACCEPTABLE TO BE: THHW, THW, THIN, XHHW OR USE

3. ONLY CONDUCTOR TYPE "USE" IS ACCEPTABLE FOR DIRECT DURIAL OF UNDERGROUND SERVICES.

SEE SPECIFICATION MH-3 FOR SERVICE REQUIREMENTS.

NOTES
1. THE CONDUIT, FROM THE METER BASE TO THE MOBILE HOME, MUST BE RIGID GALV. STEEL OR SCH. 40 RIGID NON METALLIC (NEC 300.5 (d) (4)). IF CONDUIT BENEATH THE MOBILE HOME CANNOT BE BURIED A MINIMUM OF 18" BELOW GRADE, SEE NEC TABLE 300.5 FOR ALTERNATIVE METHODS OF INSTALLATION.
SOME ACCEPTABLE LOCATIONS OF MEMBER POLE

THE CO-OPS OVERHEAD ELECTRIC SERVICE DROP SHALL NOT BE INSTALLED OVER THE MOBILE HOME.

THE MEMBER’S POLE SHOULD BE IN DIRECT LINE WITH, AND NOT OVER 100 FT. FROM THE CO-OP POWER POLE.

THE MEMBER’S POLE MUST ALSO BE LOCATED NOT MORE THAN 30 FT. FROM THE SIDE OF THE MOBILE HOME. (NEC 550.32 (a))

![Diagram of Mobile Home and CO-OP Power Pole]

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DATE: 2-11-05

DRAWN BY: S.T.W

REQUIREMENTS FOR SINGLE PHASE ELECTRIC SERVICE TO MOBILE HOME

STANDARD ELECTRIC SERVICE REQUIREMENTS CULLMAN ELECTRIC COOPERATIVE CULLMAN, ALABAMA

SPEC. NO. MH-4