

# **TRAILER SERVICES**

## **WEAKLEY COUNTY MUNICIPAL ELECTRIC SYSTEM**

### **SERVICE POLE SPECIFICATIONS**

- A. **Pole**- The pole shall be a minimum of 16 feet long with a 6” diameter, round or square. It shall be treated and capable of supporting the electric system’s service conductors. An eye bolt shall be installed in the top of the pole to support the electric system’s conductor. The pole should be installed within 12” of the mobile home if the distribution feeder conductors are to be swung from the panel (D) to the mobile home. The pole can be placed up to 25’ from the mobile home if the distribution feeder conductors are buried in an approved conduit system at a minimum of 24” below the surface. The ditch must be open for inspections. A WCMES field engineer should approve the location of the pole.
- B. **Service Conductors** - Shall be sized as follows:
- 100 Ampere** - Shall be a least 3 - #4 AWG copper conductors in a 1 1/4” conduit from weatherhead through meter to service panel (D).
- 200 Ampere** - Shall be a least 2 - #2/0 and 1 - #1 AWG conductors in a 2” conduit from weatherhead through meter to panel (D).
- The hot legs shall be marked black and the neutral shall be marked white where visible.
- C. **Ground Rod** - Shall be a minimum of 8’ and driven at the base of the service pole. It shall be connected to the meterbase by a bare copper conductor not less than #6 AWG. The grounding conductor shall be properly secured to the pole and to the rod with an approved clamp.
- D. **Weatherproof service panel** - Shall contain a main breaker for the mobile home distribution panel inside and at least two additional double pole breakers.
- E. **Distribution feeder conductors** - Shall be four (4) conductors, two (2) hot legs, one (1) neutral and one (1) grounding conductor. The sizes of hot legs and neutral shall be same or larger than specified for 100 Amp or 200 Amp in (b) above as well as color-coding. The grounding conductor shall be a #4 AWG copper, color-coded green. The grounding conductor shall be terminated in an approved terminal electrically bonded to the neutral at the main service panel (D) and isolated from the neutral in the distribution panel inside (F). The four (4) conductor assembly shall be an approved flexible conduit system.
- F. **Distribution Panel** - Shall contain a grounding bar which is bonded to the can and a neutral bar which is insulated from the can. The grounding conductor and all bare grounds shall be connected to the grounding bar. The neutral conductor and all circuit neutrals shall be connected to the neutral bar.