

SERVICE REQUIREMENTS TO A STRUCTURE NON-STANDARD UNDERGROUND ELECTRIC

100-200 AMP 120/240 Volt Single Phase

**THE REQUIREMENTS OF THIS SPECIFICATION ARE EFFECTIVE JANUARY 2, 2024 AND SUPERSEDE ALL PREVIOUS PUBLICATIONS

NOTE: BEFORE GEA INSTALLS ANY FACILITIES ON PRIVATE PROPERTY, AN EASEMENT WILL NEED TO BE OBTAINED

TRENCH BETWEEN METER BASE AND PEDESTAL BEFORE TRENCH IS BACKFILLED. AN INSPECTION PERMIT WILL BE NEEDED. VISIT THE TN DEPARTMENT OF COMMERCE AND INSURANCE WEB SITE FOR PURCHASE INFORMATION NOTE: THE STATE ELECTRICAL INSPECTOR MUST INSPECT CONDUIT/CONDUCTORS INSTALLED IN

Wall Structure \bigcirc *National Electric Code Expansion Coupling Per *NEC Requirements Per *NEC Requirements Strap Elbow MAX DIST PER *NEC REQUIREMENTS -<u>ල</u> REQUIREMENTS PER *NEC 6 Feet Max 4 Feet Min. **DEMARCATION POINT** OF GEA AND SERVES AS ANSI C84. WILL ADHERE TO STANDARD WELL AS THE POINT GEA ENTRANCE CONDUCTORS AS CUSTOMER'S SERVICE BETWEEN GEA AND VOLTAGE RANGES PER **(** AND PEDESTAL. CONTACT SCHEDULE AN INSPECTION GEA AT 423-636-6241 TO TRENCH BETWEEN GEA POLE *NOTE: GEA MUST INSPECT T Max 5 Feet ദ 12 Warning Tape and 1" 2-1/2" or 3" m \bigcirc $^{(\varpi)}$ ω_ 3 Feet Min. Ditch Depth **GEA POLE**

Greeneville Energy Authority 423-636-6200

www.mygea.net

requirements of GEA's "STANDARD UNDERGROUND ELECTRIC SERVICE REQUIREMENTS TO A underground service if they so choose or in the case that an underground service does not meet the The purpose of this specification is to allow the customer an alternate method of installing an

the secondary pedestal that is installed by the customer is \$400, if delivered and installed by GEA, the st If a customer chooses to install an underground electric service as depicted in the drawing, the cost for

pay before connecting is \$400 if the secondary pedestal is installed by the customer or \$800 if delivered and installed by GEA. If the customer wants GEA to modify the conduit system the cost the customer will accommodate the drawing depicted in this specification. In this case the cost the customer will need to STRUCTURE" are not met, the customer has the option of modifying the installed conduit system to *If the requirements of the "STANDARD UNDERGROUND ELECTRIC SERVICE REQUIREMENTS TO A need to pay before work begins is \$1,500.

entrance conductors from the meter base to GEA's pedestal. The pedestal will be the point of demarcation between the customer's facilities and GEA facilities. st^* in either situation above, the customer will be responsible for installing and maintaining the service

A. UG METER BASE: Meter base must be mounted between 4 feet and 6 feet above finished grade. Meter base must be grounded per National Electric Code

*NOTE: PEDESTAL IS PROPERTY

CONDUIT: All underground services maintained by GEA shall be installed in conduit regardless of soil conditions. NO LB'S, LL'S OR LR'S ARE PERMITTED ON THE LINE SIDE Customer to furnish and install conduit from GEA pole to GEA pedestal (see

drawing). If customer wants GEA to install, all costs are to be paid before any work

- 2-1/2 inch or 3 inch UL listed Schedule 40 PVC conduit is required for the electrical installed in close proximity and preferably in contact with the electrical service conduit for future communications/meter reading. The 1 inch conduit is to be service. Customer must also furnish and install a 1 inch UL listed Schedule 40 PVC DUE TO ITS INSTALLED LOCATION. THE CONDUIT WILL NOT MEET NESC RULE conduit. NOTE: THE 1 INCH CONDUIT CANNOT BE USED BY ANY OTHER ENTITY
- GEA WILL NOT ACCEPT HEATED CONDUIT REGARDLESS OF THE METHOD USED.
- Conduit at GEA pole to be installed in contact with GEA stand-off bracket. If GEA from surface of pole. Seal the end of all conduits that do not enter an enclosure. stand-off bracket is not present during installation, install conduit 8 inches away
- **EXPANSION COUPLING:** Per NEC requirements.
- Ö from GEA Engineering Department. Trench must be backfilled before GEA can Refer to GEA "TRENCH REQUIREMENTS" located at www.mygea.net or obtain a copy trench as electric as long as a minimum of 12 inches of separation is maintained inches of separation is maintained. Communication lines can be installed in the same inches of concrete. Water lines can cross electric lines as long as a minimum of 12 encountered and minimum depth cannot be achieved, conduit can be encased with 3 paid before any work begins. Depth of trench to be a minimum of 3 feet. If rock is GEA pole to GEA pedestal unless customer wants GEA to install, all costs are to be TRENCH 3 FEET DEEP MINIMUM: Customer to open and close service trench from
- inspection, contact GEA Engineering Department at 423-636-6241 GEA will not install facilities unless warning tape is present. To schedule a trench tape can be in the trench or on the ground beside the trench at time of inspection secured to all vertical elbows between GEA pole and secondary pedestal. The warning WARNING TAPE AND TRENCH INSPECTION: Warning Tape must be installed and
- ELBOW: Must use at least 24 inch radius, 90-degree elbows at GEA pole and at radius (standard) elbows. pedestal. Install elbows back to back. For the communication conduit, use 5.75 inch
- **CUSTOMER SERVICE ENTRANCE CONDUCTORS:** Customer must furnish and install service entrance conductors from meter base to GEA pedestal. Refer to the NEC for

*NOTE: 1 INCH COMMUNICATION DUCT NOT SHOWN IN ITS ENTIRETY FOR CLARITY