

**Etowah Utilities Board
Policy for Electric Services**

This policy covers the requirements for residential and commercial electrical services.

1. The standard service furnished by EUB for all classes of customers shall be single-phase, 60 hertz alternating current at a nominal voltage of 120/240 volts. At the discretion of EUB, single-phase service at a nominal voltage of 120/208 volts may be supplied.
2. Three-phase, 60 hertz alternating current may be furnished where sufficient capacity in existing facilities is available. If it is necessary for EUB to install additional facilities in order to furnish three-phase service to a customer, an aid-in-construction will be required if the calculated revenue margin for the customer's three-phase load is less than the carrying costs for EUB's additions or improvements to existing facilities to provide the three-phase service at the voltage requested by the customer.
3. Only one service drop, either overhead or underground, will be supplied to a building or other structure without approval of the EUB Engineer and the inspection authority.
4. All equipment beyond the connection point between EUB facilities and the customer's wiring, with the exception of the meter and metering instrument transformers (where applicable) is the responsibility of the customer.
5. A service pole(s) necessary to provide minimum clearance for service conductors above grade per the current adopted revision of the National Electrical Safety Code or to provide a demarcation point for a customer's underground service will be installed by EUB for a charge of \$250.00. The pole will remain the property of EUB.
6. For overhead services with risers that extend through or above the roof, in addition to applicable codes, shall be a minimum of 2" rigid or IMC steel and shall extend not less than three feet above the roof. Risers that extend through or above roofs ten feet or less shall be continuous and without couplings or similar fittings. Risers that extend through or above the roof shall be guyed or braced to withstand any strain imposed by the service conductors. All materials used to guy or brace risers shall be suitable for the environment in which they are to be installed. Guy wire shall be attached by an eyebolt passing through and securely fastened to the roof framing. Eye screws shall not be considered adequate for use in attaching guy wire.

Minimum guy size shall be 3/16 inch steel wire. Guy wire or braces must be connected to the riser below the weatherhead.

7. For overhead services with risers that do not extend through or above the roof, the customer or builder shall install an attachment point suitable to withstand any strain imposed by the service drop conductors. Eye screws or similar devices shall not be considered adequate as an attachment point for service drop conductors.
8. Risers or attachment points shall be installed at a height and location as to accommodate all minimum clearances for the service drop conductors according to the latest adopted revisions of the National Electrical Safety Code, the National Electrical Code, the State of Tennessee Electrical Code, and EUB requirements. It shall be the responsibility of the builder or electrical contractor to consult with the EUB Engineer to ensure proper location, height, and orientation of risers, attachment points, conductors, weatherhead, and guys or braces. Proper conductor length, three feet minimum, for service hookup shall be determined at that time.
9. All services of 400 amps or less, not exceeding 500 volts, single or three phase, overhead or underground shall be metered with self-contained meters. All services of more than 400 amps will normally be metered with CT type meters.
10. Meter bases may be purchased from EUB in conjunction with the purchase of an electrical permit for work in the EUB electrical service area. Meter bases or meter centers furnished by the builder or electrical contractor must be approved by EUB. Meter bases and meter centers must be UL listed and have provisions for sealing the meters into position.
11. EUB will furnish and install all facilities for CT metering with the exception that the customer may be required to provide and install a 1" PVC conduit from the CTs to the meter base and attach both a mounting bracket for the CTs and the meter base (both furnished by EUB) where the metering is attached to the customer's structure. The charges to provide three-phase CT metering will be \$750.00, which includes the cost of the meter base.
12. Meter bases shall be installed on an exterior wall in a location accessible to EUB personnel. The center of the meter will be no less than 5 feet nor more than 6 feet above final grade and with a minimum of 12 inches of clearance from obstructions on either side, above and below the base and 36 inches of clearance in front.

13. EUB shall not install three-phase underground services. For three-phase underground service, the entire installation, including conduits and conductors, shall be the responsibility of the builder/contractor and all work shall be inspected and approved by the Deputy State Electrical Inspector. EUB will make the connection from its facilities to the underground service.
14. For single-phase underground services, builder/customer shall furnish and install conduit with a pull –line from the EUB pole or padmounted transformer and EUB will furnish and install the underground conductors. An aid-in-construction of \$200.00 is required for underground services up to 150 feet in length. Additional aid-in-construction may be required for services in excess of 150 feet.
15. EUB shall be consulted prior to construction to determine the proper meter location and routing of underground services. All underground services shall be installed in conduit. 90 degree bends/elbows shall not be allowed in the below grade portion of the conduit installation.
16. For 200 amp single-phase underground services, the conduit size shall be 2½” and for 400 amp services, the conduit size shall be 3” unless otherwise specified by EUB. Conduit shall be a minimum grade of Schedule 40 PVC except for above-grade portions of the installation where conduit shall be Schedule 80 PVC. Elbows at either end of the conduit installation shall Schedule 80 with a minimum sweep radius of 24 inches. EUB will assume ownership of the conduit system, not including the ditch itself, after the service has been energized.
17. Conduits for underground services shall be installed at a depth of not less than 24 inches below final grade. Care shall be exercised in backfilling the ditches and foreign matter such as bricks, concrete blocks, boards, bottles, and trash shall not be placed in the ditches. Before backfilling, the conduit installation must be inspected by the EUB Engineer and an underground warning tape will be provided to be placed in the ditch approximately 12 inches above the conduit during backfilling.