

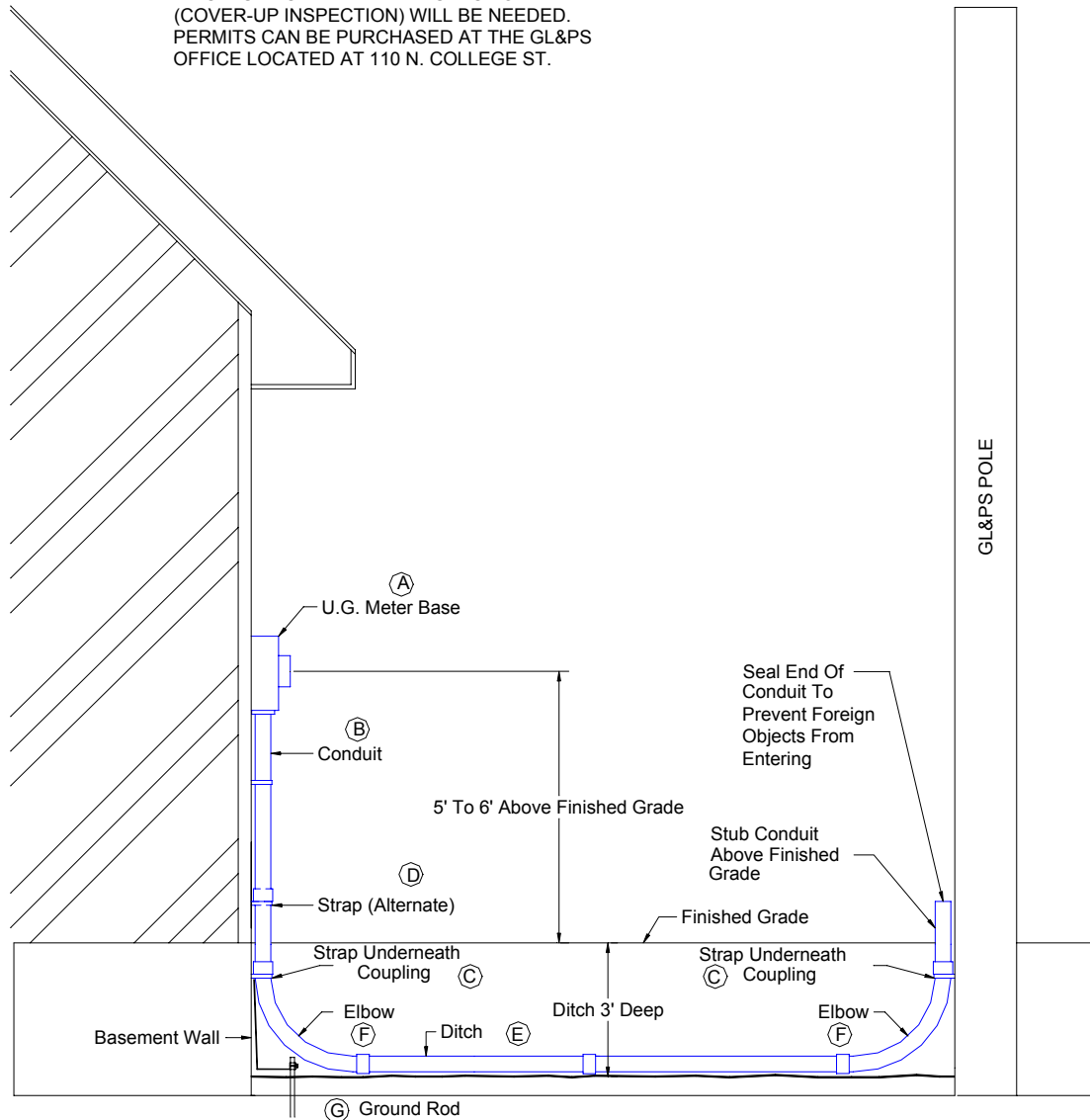


SITE BUILT HOME OR SIMILAR STRUCTURE Underground Electric Service Requirements

100 – 400 AMP Capacities, 120/240-Volt Single-Phase

Greenville Light and Power System
423-636-6200
www.glps.net
Revised May 29, 2002.

NOTE: THE STATE ELECTRICAL INSPECTOR MUST INSPECT CONDUIT INSTALLED IN DITCH BEFORE DITCH IS BACKFILLED. AN INSPECTION PERMIT (COVER-UP INSPECTION) WILL BE NEEDED. PERMITS CAN BE PURCHASED AT THE GL&PS OFFICE LOCATED AT 110 N. COLLEGE ST.



- A. **UG METER BASE:** Customer must contact GLPS Engineering Department to have meter base location determined. GLPS has the right to require relocation of the meter base when customer has not complied with this requirement. Meter base must be mounted between 5 feet and 6 feet above finished grade. Meter base must be grounded to approved ground rod.
- B. **CONDUIT:** All underground services shall be installed in conduit regardless of soil conditions.
- Customer to furnish and install conduit from meter base to GLPS pole per drawing.
 - 100 Amp – 400 Amp single-phase services will use 2-1/2" conduit regardless of the service length.
 - Only Schedule 40, UL-listed PVC electrical conduit may be used.
 - All PVC joints to be glued.
- C. **COUPLING SUPPORT STRAP:** Install strap directly below coupling. Be sure strap contacts coupling. FASTEN SECURELY. Prevents conduit from settling with backfill dirt.
- D. **STRAP (ALTERNATE):** If there is nothing below grade to anchor the coupling support strap (i.e., basement wall), cut the conduit one foot above grade; install coupling and strap coupling at that location.
- E. **DITCH 3 FEET DEEP MINIMUM:** Customer to open and close service ditch. Trencher ditch is acceptable.
- Power lines and water lines cannot be paralleled in the same ditch. However, they may cross with the power line being at least 12" below water line.
 - Communication and CATV cables are allowed in the same ditch as power line, but not in the same conduit. Conduit not required for communication cables.
- F. **ELBOW:** Must use at least 24" radius, 90-degree elbows at pole and meter base on home. 36" radius 90-degree elbow must be used for horizontal turns in ditch. Maximum of 4 elbows can be used. If footer is not flush with the side of the building, footer must be cut to allow elbow to be installed against the building.
- G. **GROUND ROD:** Ground rod must be 5/8" x 8', galvanized or copper with approved teardrop-type clamp. The entire ground should be driven into the ground with the ground wire attached at the top. Wire must be no less than #6 bare copper.

\$25.00 Underground Fee will be applied to first bill after service wire is installed.

Call GLPS Engineering at 423-636-6200 for on-site consultation prior to construction.

IMPORTANT: Call Tennessee One-Call at 1-800-351-1111 to have all underground utilities located before you dig.

NOTE: This is to be used as a guide only - some installations may vary. All installations must meet current NEC, NESC and GLPS requirements.