

## Member Installed Secondary Underground Conduit

- **Meet with the Engineering Department**

Before any conduits are installed, an Engineer must meet the consumer at the site. At this time, transformer and entrance locations can be discussed and approved. This is the time to ask the Engineer questions concerning installation.

- **Call J.U.L.I.E. to mark other utilities before digging**

This is a free service that is required by law in Illinois. Other existing underground utilities may change the route of the electrical service. You must call at least 2 working days in advance of any digging. **Don't assume the area you are digging is free of other utilities!**

Phone number is 1-800-892-0123

- **Conduit**

Conduit for 200AMP service must be 2 ½ inch schedule 40 and rated for electrical use. Conduit for 400AMP service must be 3 inch schedule 40 and rated for electrical use. Electrical grade conduit will have markings on the outside indicating for electrical use. An expansion fitting is recommended at the house under the meter base. If the site is within the city limits of Mt. Vernon, the conduit extending from the meter base to a depth 18 inches below grade must be a rigid metallic conduit.

- **Depth**

Tri-County Electric requires a uniform depth and to be at least 24 inches.

**Engineer must see exposed conduit to verify it is 24 or more inches deep.**

- **Conduit Route**

The conduit route will extend from the meter base to the transformer location. The route should be the most direct path unless otherwise approved by Engineer. A long sweep 90 degree elbow is required as shown in drawing B. Occasionally, the footing of the house extends just below the final grade. If this is the situation, 2 – sweep 45 degree elbows may be used as shown in drawing A. If the transformer is to be installed on a pole, leave conduit 6 inches from pole using long sweep 90 degree elbow as shown in drawing C. Extend conduit out of ground at pole at least 12 inches above grade. If transformer is to be pad-mount type, stop conduit within 5 feet of transformer as shown in drawing D. **Remember to call J.U.L.I.E. prior to any digging!**

- **Installation**

It will be helpful to temporarily lay all the conduit pieces on top of the ground prior to excavation so nothing is overlooked. If everything looks okay, spray paint or align marking flags along the route to be trenched. **Call J.U.L.I.E. at this point before any digging.** After the trench is complete, start at the meter base and start assembling the conduit using an approved electrical grade PVC cement.

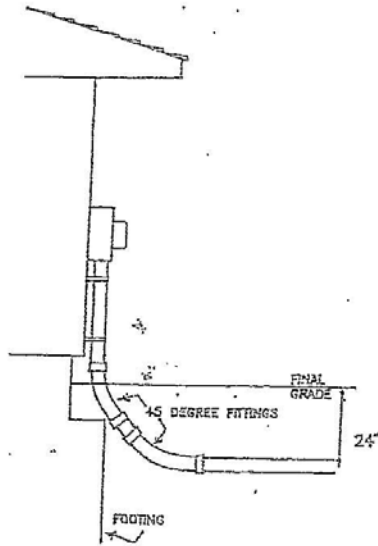
- **Pull Rope**

Install a minimum ¼ inch nylon rope as you are installing conduit. This rope will be used in pulling in the secondary wire. The consumer is required to have this rope

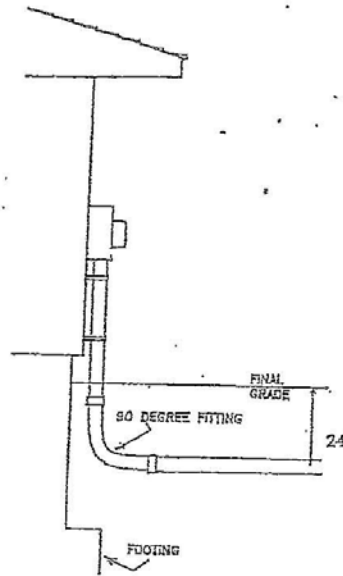
installed before Tri-County Electric will pull in secondary wire. When the rope is installed properly, there will be at least five feet of rope sticking out of the conduit at the meter base as well as the other end by transformer.

- **Inspection**

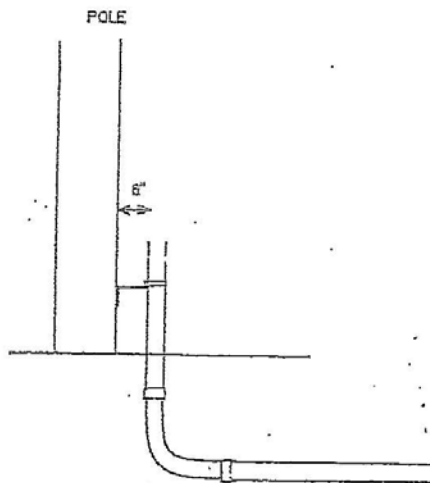
An Engineer must inspect installed conduit in trench before it is backfilled. A notice of at least two days is required to allow the Engineer time to inspect. Dirt may be placed every 15 feet on conduit to prevent "floating" in the event of rain.



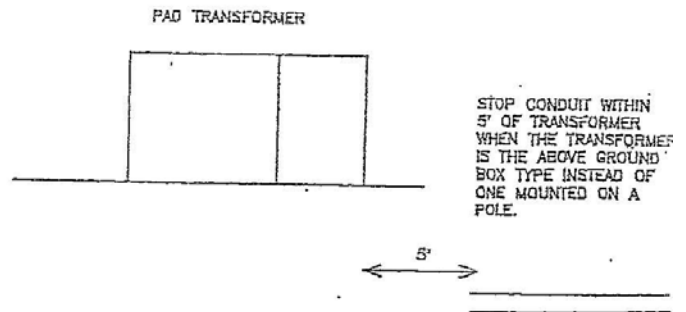
DRAWING "A"



DRAWING "B"



DRAWING "C"



DRAWING "D"