

UNDERGROUND

Permanent



Responsibilities

What should I do for service?

- Contact the Customer Operations Center to complete an application for service at **1-800-572-1113**. This will include a date when permanent service will be needed and connected load information with as much detail as possible.
- Provide service connection point. The service point is to be located at side of home nearest Kentucky Power's existing facilities.
- Provide and install service pole with meter base mounted at a height that allows meter installation between 5 feet and 6 feet from finished grade. Entrance cable from the main switch to the meter base must be connected to the bottom lugs. Your bare ground conductor cannot pass through or be connected within the meter base.
***NOTE:** If backfilling is to be done later, the meter socket may be installed higher than 6 feet. However, an adequate, safe platform must be installed until backfilling has been completed.
- Ensure installation meets Kentucky Power requirements.
- Obtain electrical inspection and report inspection number back to Kentucky Power at **1-800-572-1113**.
- A Kentucky Power representative will contact you to sign the necessary underground agreement and collect the required charges before service installation can be scheduled.

What will Kentucky Power do?

- Determine location of service.
- Provide and install underground service to customer's meter base.
- Provide the meter base, install and remove meter when necessary.
***NOTE:** If you obtain a meter base from a source other than Kentucky Power, please verify the meter base is on Kentucky Power's approved meter base list. The list can be found at **www.kentuckypower.com**. Failure to use an approved meter base will result in denial of service and could result in extra costs to you.
- Contact you about the conduit size requirements

Notes & Requirements

Conduit

Underground is considered a premium service. Availability may be limited by terrain, soil, site conditions, etc.

The conduit may be furnished and installed by the customer to speed the process. Type and size of conduit will be specified by Kentucky Power and must be secured to the bottom of the meter base by locknuts. A minimum of schedule 40 conduit is to be used in locations below ground level. A minimum of schedule 80 conduit is to be used at all locations above the ground line. Customer shall install a pull string inside the entire length of the conduit. Any 90° bends must be long sweeping radius bends (36 inch minimum radius)

Trench

The area of the trench needs to comply with the following:

- Lot must be within 4 inches. of final grade
- Lot must be free of debris in area along trench route
- Where abnormal site or soil conditions are found to exist after underground fees are paid, the property owner shall pay those charges incurred by Kentucky Power that are in excess of the normal charge for the service.

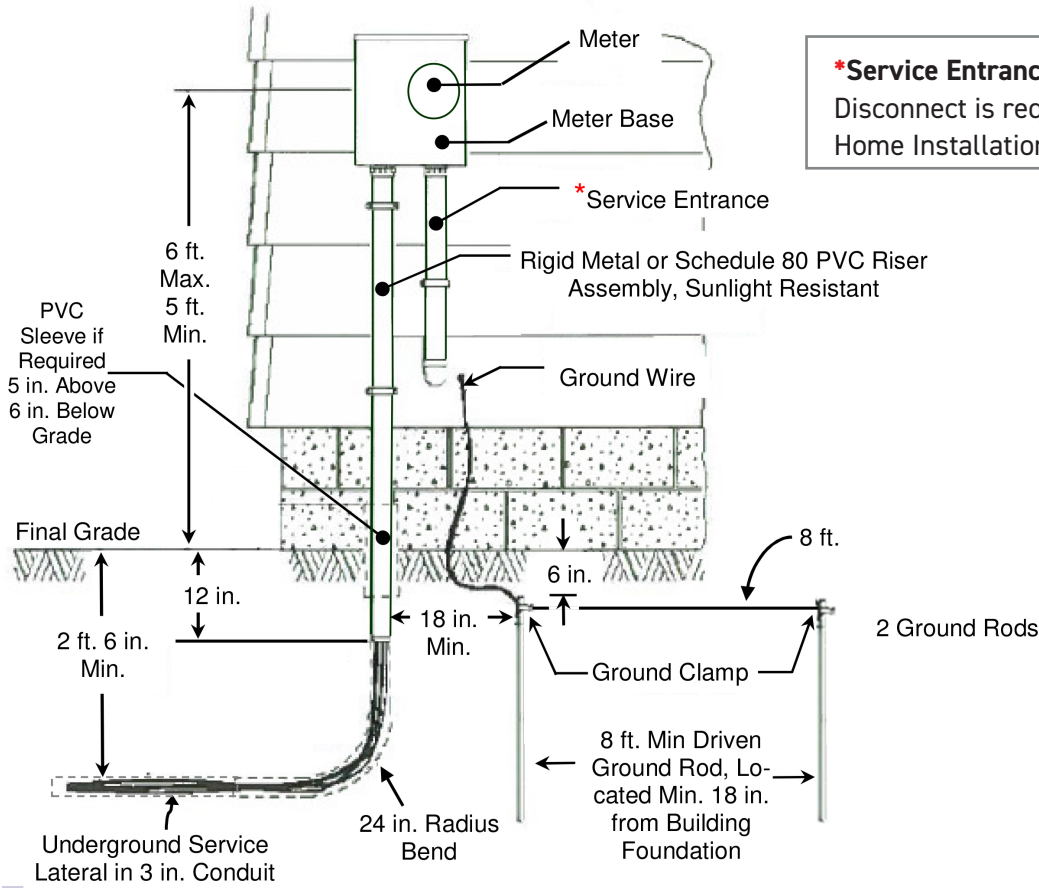
Telephone and cable television are the only utilities allowed in the same trench with underground electrical lines. They must be a minimum of 12 inches away from the underground electric line.

The trench depth must be 30 inches below final grade and the trench must be backfilled from the base of the house to the base of the pole. Trench backfill shall be made with suitable material, free of rock and debris. Any obstruction in the trench, such as the foundation footer under the meter, must be removed where permitted. Otherwise, Kentucky Power approved bends may be used to clear the obstructions.

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Meter base mounting



***Service Entrance**—NOTE: Weatherproof Disconnect is required here on Manufactured Home Installations

Entrance Cable Size (2002 NEC)	
Switch Box Size	Size of Cable
200 A	2/0 Cu or 4/0 Al
320 A	250 Cu or 350 Al
Size of Ground Conductor	
Entrance Size	Ground Wire Size
1 to 1/0 Cu	#6 Cu
2/0 to 3/0 Al	#6 Cu
2/0 to 3/0 Cu	#4 Cu
4/0 to 250 mcm Al	#4 Cu
Conduit Size	
200 A, 320A	3 in.

Inside meter base

