

Service mast

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 service will be needed and connected. Provide as much information and detail as possible.
- Provide service connection point. The service point is to be located at side of home nearest Liberty's existing facilities. Make sure the service conductors do not cross over your home.
- Install meter base with meter base height between 5 feet and 6 feet from finished grade
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 Liberty requirements.
NOTE: Meter base shall be installed outside the building on wall nearest Liberty facilities and in an area that will be safe and accessible to Liberty personnel at all times.
- Clear and maintain the service drop right-of-way since it belongs to you.
- Provide 2-foot additional service entrance conductor extending beyond the service head for Liberty to connect to.
- Ensure installation meets Liberty requirements.
- Obtain electrical inspection and report inspection number to Liberty at **1-800-572-1113**.

What will Liberty do?

- Determine location of service.
- Provide and install overhead service drop to customer's mast.
- Provide the meter base, install and remove meter if or when necessary.
NOTE: If you obtain a meter base from a source other than Liberty, please verify the meter base is on Liberty's approved meter base list, which can be found at kentucky.libertyenergyandwater.com. Failure to use an approved meter base will result in denial of service.

Notes & requirements

Mast

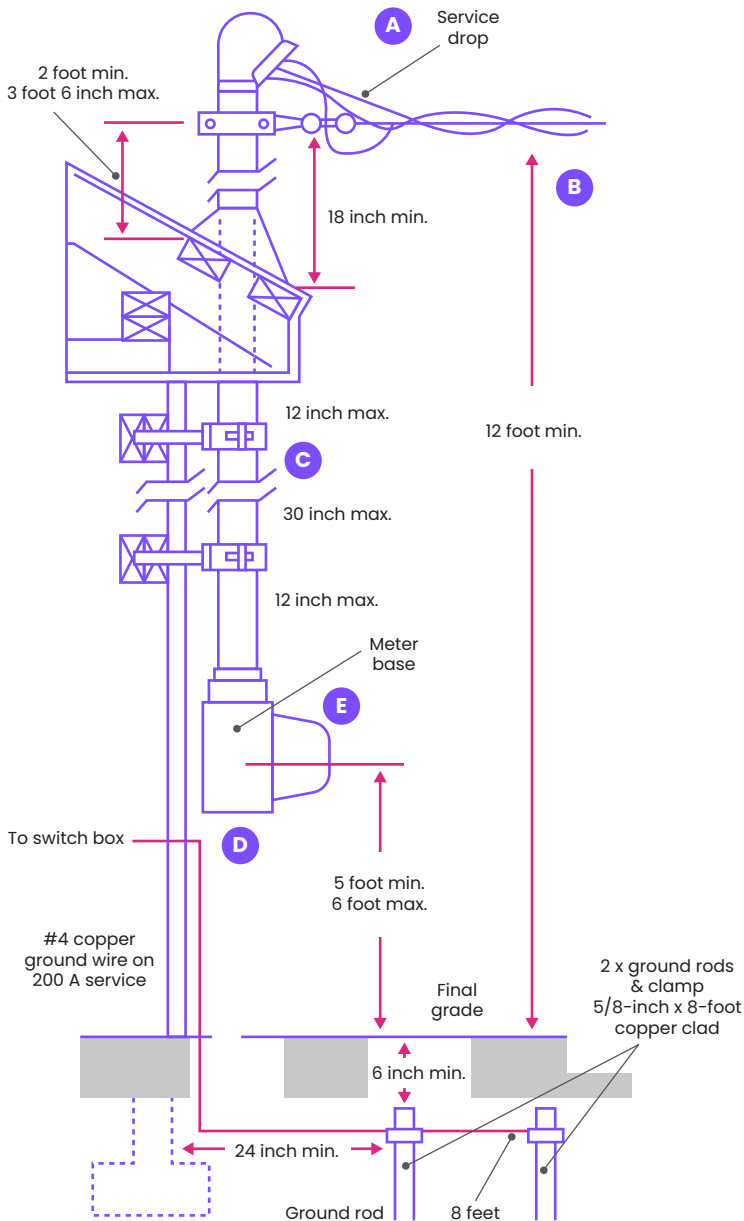
- A** If it is not possible to maintain 12 feet of clearance-above finished grade to the point of attachment, a service mast will be required to extend through the roof. The vertical clearance of the conductor to the roof surface will depend on the slope of your roof. Service drop attachment point shall be a maximum of 42 inches and a minimum of 18 inches above roof on mast.
- B** If a mast extension is required, it must be installed at the base of the mast. Meter base shall be properly secured before service will be installed.
- C** There must be 12 feet minimum of clearance at the service drop attachment point unless crossing a roadway subject to traffic, which requires 18 feet minimum clearance.

NOTE: Extend clearance above the roof 18 inches minimum if the service drop crosses 4 feet or less of the roof; if the installation crosses more than 4 feet of the roof, contact Liberty.

Meter base mounting, ground conduits

- D** A 2-inch or larger rigid galvanized steel conduit must be secured with two or more through-the-wall bolts and approved mast clamps, according to NEC standards (bolts shall not be located inside the panel board). Wall shall be capable of supporting meter base and service entrance properly, which may mean adding 2-inch x 4-inch support between studs.
- E** Ground conductors shall not pass through or be connected within the meter base. The customer shall have a minimum of 2 x 5/8-inch x 8-foot driven ground rods at least 8 feet apart and clamp shall be beneath final grade.

Service above the roof



Entrance cable size (2002 NEC)	
Main switch	Size of cable
100	#4 Cu or #2 Al
200	2/0 Cu or 4/0 Al
320	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	
100 A	2 in.
200 A	2 in.
320 A	3 in.