



NOTICE

This drawing illustrates FECC requirements only, and is not intended to be a comprehensive guide for the installation of an electrical service. To insure a safe, quality installation that complies with the National Electrical Code and local code requirements, the Cooperative recommends that work be done by a qualified, licensed electrical contractor.

Also see Drawing 8.6-1 for underground service conduit system installation requirements.

To Cooperative's power source. See Drawing 8.6-1 for conduit system installation requirements.

Member installed ground wire attached to wall, 5/8" x 8' copper-clad ground rod installed below grade, and clamp are required. See table below.

Notes

- Member provides and installs: conduit from transformer or pedestal to the meter socket; meter socket; service disconnect switch; ground rod and wire; and all related materials. All work shall comply with Cooperative standards, the National Electrical Code, and authorities having jurisdiction. Refer to the *FECC Member Installation Standards for Electric Service* for more information.
- Cooperative provides and installs service lateral conductors from FECC transformer or secondary pedestal to the meter.
- This service shall be installed at a location mutually agreed upon by the member and the Cooperative. See Drawing 8.6-5 for service location details.
- Riser conduit shall be Schedule 80 PVC, and shall be flush with wall when installed. 45° or 90° elbows around footings are not permitted. If required, offsets shall have a minimum bend radius of 36".
- Member shall install conduit system to the Cooperative's power source. See Drawing 8.6-1 for conduit system requirements.
- All above ground conduits and elbows shall be electrical grade EMT, IMC, RMC, or Schedule 80 PVC. All conduit connections to be raintight.
- Underground conduit shall be electrical grade Schedule 40 or Schedule 80 PVC. Meter riser and all elbows shall be Schedule 80 PVC. See table below and Drawings 8.6-1 and 8.6-5.
- Meter and disconnect enclosures must be grounded and bonded together using special means per NEC 250.92. Standard locknuts or bushings are not acceptable. Factory assembled meter and disconnect enclosures are also acceptable. See Section 11.1.2.

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It shall be the member's responsibility to stay clear of all underground facilities.

Member Installation Minimum Wire and Conduit Size

Service Rating	Conduit Size		Aluminum (Insulation per NEC)	Copper (Insulation per NEC)	Neutral	Ground Wire Size
	Single Phase	Three Phase				
100A	2"	3"	#2	#4	Same as phase	#6 CU
200A	2"	3"	4/0	2/0	Same as phase	#4 CU
320A	3"	4"	500 kcmil	350 kcmil	See NEC	#2 CU

Underground Meter On Home or Building
 Served From Underground Source
 Single or Three Phase Service Up to 320A
DRAWING 8.6-2
 June 2014
 NOT TO SCALE

