



CALL 48 HOURS BEFORE YOU DIG
 – Dial 811
 It shall be the member's
 responsibility to stay clear of all
 underground facilities.

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 all electrical work be done by a qualified, licensed electrical contractor.

Notes

- Member provides and installs the mounting rack, riser conduit, 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 the meter and the service lateral conductors from the Cooperative's source to the meter.
- This service shall be installed at a location mutually agreed upon by the member and the Cooperative. The location should be immediately adjacent to a roadway or drive which is accessible at all times to Cooperative vehicles without having to cross yards, fields, ditches, or areas subject to flooding or irrigation.
- Member provides trench and any required conduit from the service to the Cooperative's source.
- All above ground conduits shall be electrical grade Schedule 40 PVC, EMT, IMC, or RMC. All conduit connections shall be raintight. Refer to Section 8.10 of the *FECC Standards* for underground conduit requirements.
- If the conduits between the electrical enclosures are not metal, a bonding ground is required per the National Electrical Code. See Section 13.5 of the *FECC Standards*.
- Member provides a 36" deep trench and Schedule 80 PVC 36" sweep elbow with end-bell and Schedule 80 PVC riser conduit to the meter for direct buried service conductors. If service is required to be run in conduit to the Cooperative's source, see Drawing 8.6-1 for underground conduit system installation requirements; also see table below for conduit size.
- Mounting rack vertical posts must be minimum 3" schedule 40 weatherproof pipe, 6" round treated posts, or 6" x 6" treated posts. Posts must be set 36" deep. Steel posts must be set in concrete. Posts must be spaced to provide stable mounting for the equipment. Mounting rack cross-members must be weatherproof steel or treated wood of sufficient number, size, strength, and spacing to provide stable mounting of the electrical enclosures.
- Meter and disconnect enclosures must be grounded and bonded together using special means per NEC 250.92. Standard locknuts or bushings are not acceptable.

Member Installation Minimum Wire and Conduit Size

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

**Underground Meter and
 Equipment Rack
 (Irrigation Service)**

Three Phase Up to 320 Amps

DRAWING 4.10-2

June 2014

NOT TO SCALE



**First Electric
 Cooperative Corporation**