



**Notes**

1. Member provides and installs the pole, mounting rack, service entrance conductors, conduits, weatherhead, meter enclosure, 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.
2. Cooperative provides and installs the meter, the service drop conductors, and makes connections at the weatherhead.
3. 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.
4. All conduits shall be electrical grade Schedule 80 PVC, EMT, IMC, or RMC. All conduit connections shall be raintight.
5. Riser conduit shall be at least 10' in length with 2 conduit straps required. Straps must be placed within 12" of the top and at the midpoint of the conduit. See table below.
6. A minimum of 36" of conductor shall extend from weatherhead. Neutral conductor shall be marked with white tape at both ends (bare conductor may be used). See table below.
7. Member installed 1/2" galvanized steel eye bolt with 2" x 2" square washer required.
8. Pole for service drop attachment must be minimum 6" x 6" treated wood or 6" schedule 40 weatherproof steel set in concrete. Pole length shall be minimum 18' or 22' depending on weatherhead height requirement. Vertical posts must be minimum 6" round or 6" x 6" treated posts, or 3" schedule 40 weatherproof steel set in concrete. Posts must be spaced to provide stable mounting for equipment. 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.
9. A bonding jumper is required if PVC conduit is used. A factory assembled combination meter & disconnect enclosure may also be used. See Section 11.1.2

**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.

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



First Electric Cooperative Corporation

**Overhead Meter and Equipment Rack**

(Irrigation Service)  
 Three Phase Service Up to 320A

**DRAWING 4.10-1**

December 2011  
 NOT TO SCALE