

Top of riser shall extend 50" above phone or CATV cable.

Cooperative provides and installs service conductors from source to meter, up to 320A.

Cooperative may provide weather sealing as necessary.

Cooperative provides and installs conduit standoff brackets. 8' separation required between bottom bracket and next higher bracket.

Threaded coupling, adapter, or sleeve as appropriate.

Cooperative provides and installs pole riser conduit.

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Metal conduit, if used, shall be bonded to pole ground with grounding clamp. NEC 250.140B

Member provides and installs 36" riser elbow and conduit from pole base to premises.

36" minimum trench depth required.

Pole Ground

Member shall extend conduit to the pole. Consult Cooperative for details. See drawing 8.6-1 for additional details on conduit system.

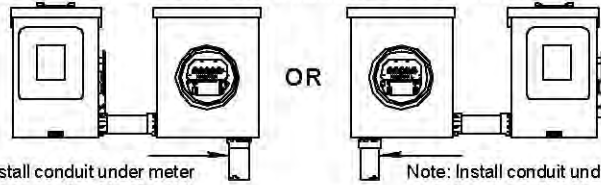
IN CONDUIT SYSTEM (see note 5)

See Drawings 8.6-2 and 8.6-5 for mounting height and meter clearances.

DIRECT BURIED SYSTEM (see note 5)

CONDUIT PLACEMENT

Meter socket shall be designed for underground service installation. Socket is provided and installed by the Member. Minimum required size 4 1/8" D x 11" W x 15" H. Main breaker should be within 2' of Meter. Outside wall mount required.



Note: Install conduit under meter socket on opposite side of switch

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Notes:

1. Member facilities shall comply with Cooperative Standards, the National Electrical Code, and authorities having jurisdiction.
2. Member provides and installs meter socket, and conduit system from premises to source pole.
3. The Member shall install 80lb non-metallic pull line or bull tape in the conduit.
4. Conductor normally supplied by Cooperative up to 320A. Consult Cooperative for services greater than 320A.
5. Direct buried systems are allowed for some agricultural and non-residential service locations. Consult a Cooperative Representative for required system in your area.
6. Member shall consult with Cooperative for location and type of pull box for any length over 200'. See drawing 8.6-1 for details.
7. If more than three 90° bends (including riser bends and regardless of length) are required in any run, consult the Cooperative. See drawing 8.6-1 for details.

Member Installation Minimum Wire and Conduit Size

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

NOTICE

The Cooperative recommends that all work on the Member's facilities be performed by a qualified, licensed electrical contractor.

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

TYPICAL SINGLE PHASE UNDERGROUND SERVICE FROM AN OVERHEAD SOURCE

DRAWING 8.6-3

October 2010
 NOT TO SCALE



First Electric Cooperative Corporation