

# ALLAMAKEE-CLAYTON ELECTRIC COOPERATIVE, INC.

## Wiring/Service Specifications and Recommendations

Phone: 1-888-788-1551 or 563-864-7611

400 to 600 Amp Single Phase  
120 / 240 Volt

- All equipment rated over 320 Amps shall be CT metered.
- Minimum of 12 to 30 feet from Transformer if Agricultural.
- Meter Height at 48" to 60"
- Support post - Minimum of 6"x6" treated buried a minimum 3 ft. in ground.
- Backboards-5/4 treated deck boards or larger (no plywood).

### Allamakee-Clayton Electric Supplies:

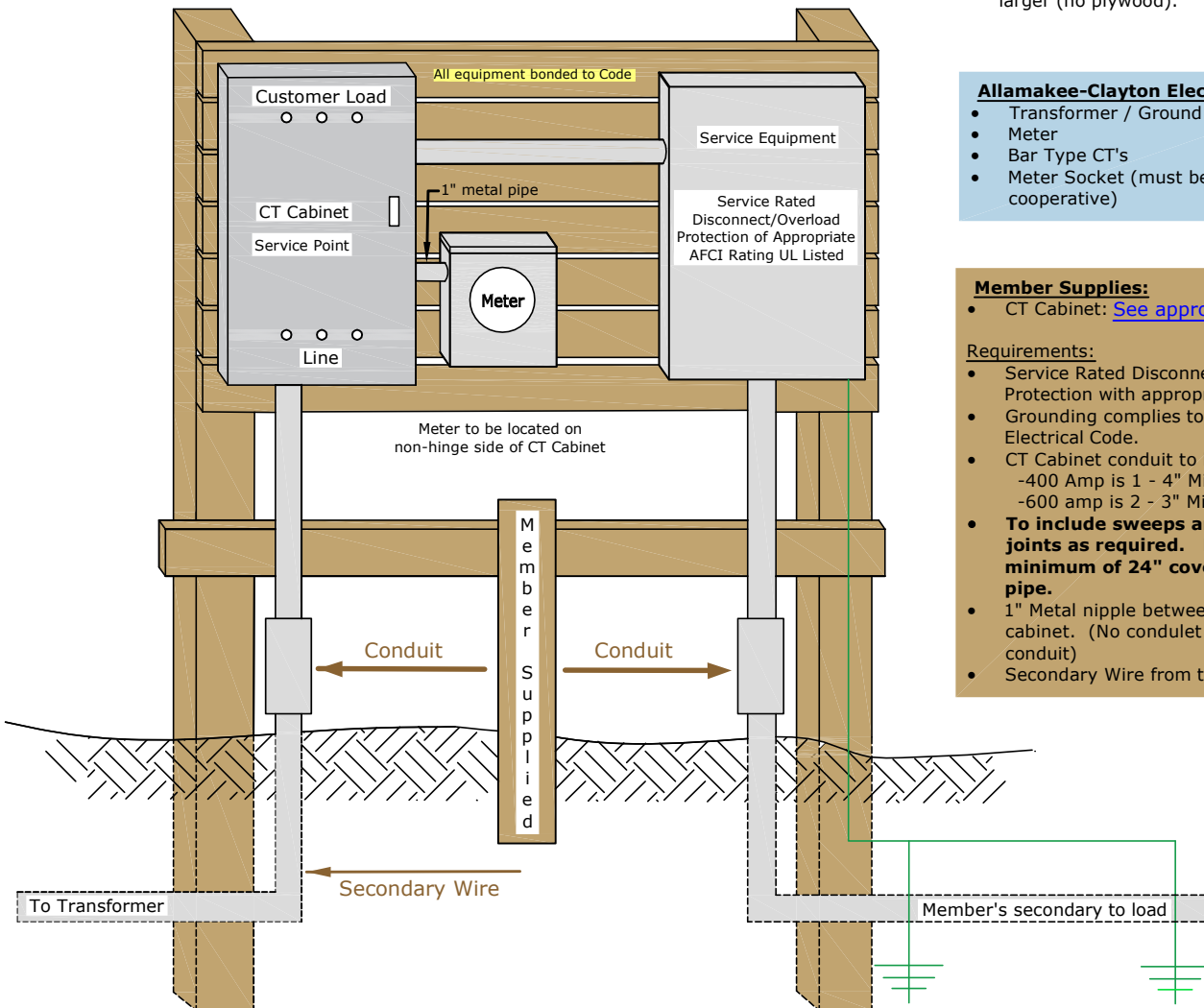
- Transformer / Ground Sleeve
- Meter
- Bar Type CT's
- Meter Socket (must be purchased from cooperative)

### Member Supplies:

- CT Cabinet: [See approved CT Cabinet list](#)

### Requirements:

- Service Rated Disconnect with Overcurrent Protection with appropriate AFCI Rating
- Grounding complies to NEC and IA Electrical Code.
- CT Cabinet conduit to be schedule 80  
-400 Amp is 1 - 4" Minimum  
-600 amp is 2 - 3" Minimum
- **To include sweeps and expansion joints as required. Buried to a minimum of 24" coverage to top of pipe.**
- 1" Metal nipple between meter and CT cabinet. (No conduit or J-Box in metering conduit)
- Secondary Wire from transformer



- Member supplied secondary wire cannot exceed 500 MCM.
- Transformer size and location of service to be determined at joint meeting with the engineer at the building site.
- Any Single Phase **over** 400 amp or 250 Volt must have prior approval of Cooperative Engineering Staff.
- For UG transformer, leave 12' coil - 2' away from transformer.
- For OH Transformer, leave 40' tail at the base of pole.
- Must pass [State Fire Marshall Electrical Inspection](#)