Wiring/Service Specifications and Recommendations

#### **Meter Locations**

- The clear working space in front of meter panels shall be a minimum of 4 feet and a vertical clearance of 6 feet 6 inches. Two feet of horizontal clearance on either side shall also be provided. Free space in front of instrument transformer cabinets shall be 2 feet beyond the cover in the extended position or a minimum of 4 feet whichever is greater.
- If changes are made on the member's premises making the existing meter location unsafe or inaccessible for reading and testing, the member shall be required to make changes in the wiring so that the meter may be located to comply with these rules and codes. Failure of the member to correct his or her wiring within a reasonable length of time after written notification shall be considered as noncompliance with these rules. SREC reserves the right to discontinue electric service until the member has changed his wiring as outlined above.
- The member shall be responsible for providing protection for the meter(s) from damage caused by falling ice, snow or other objects. In locations where the meter is not protected, the member shall provide a protective shield. (see Appendix 12) for structure specs.

The service specifications and diagrams for individual service requirements are as follows:

#### **Specifications and Diagrams**

The information in this section addresses questions most commonly asked by our members when applying for electric service. While this information covers Scenic Rivers Energy Cooperative's requirements for the electrical service entrance, it is **not** meant to replace state or national codes. For a copy of either code book, please contact:

#### **National Electric Code**

National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471 (800) 344-3555

#### **Wisconsin State Electric Code**

Madison, WI 53702

NOTE: <u>Per State law and code you must contact a Wisconsin licensed master electrician to perform any electrical work.</u>

Wiring/Service Specifications and Recommendations

### **Conductor Types and Sizes**

Service Size	Minimum Sizes	
	Copper	Aluminum
200-amp	No. 2/0	No. 4/0
320-amp	No. 4/0	No. 350MCM

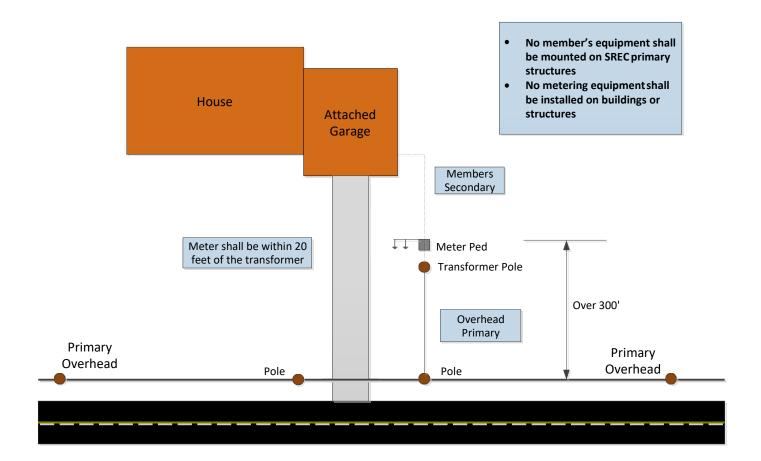
Please see current code requirements for wire type and size.

### **Single-Family Dwellings**

- Minimum meter sockets shall be 200-amp rating with 4 terminals (no matter what size load) with proper FCI rated overcurrent protection at the service point. All equipment must be UL listed and Type 3R outdoor rated. Please contact SREC for approval of all metering equipment prior to installation.
- Single family dwellings may have only one main service disconnect. Exception: A second main may be installed for (1) a different rate (Controlled Electric Heat). Service metering shall be rated to at least the rating of any disconnects and overcurrent protection

Wiring/Service Specifications and Recommendations

# Placement Guide New Service Metering Point Over 300' From SREC Facilities Primary Overhead line

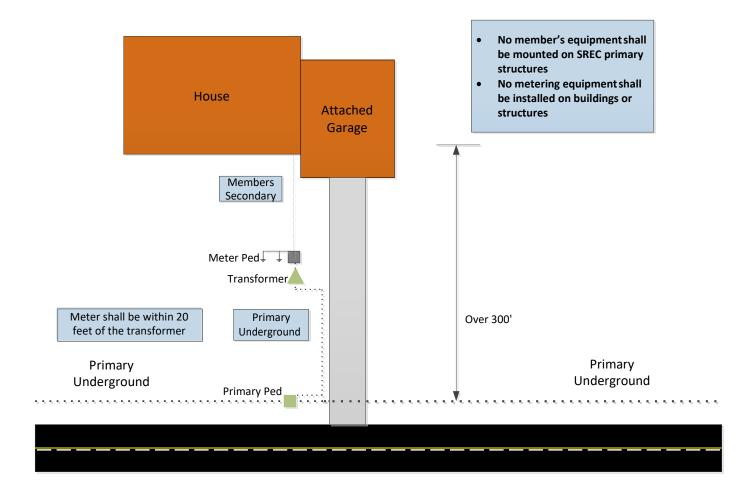


Total Secondary (Utility and Member) Not to Exceed 300' to the Main Service Location

Last Revision Date: 1/20/2017

Wiring/Service Specifications and Recommendations

# Placement Guide New Service Metering Point Over 300' From SREC Facilities Underground Primary Line

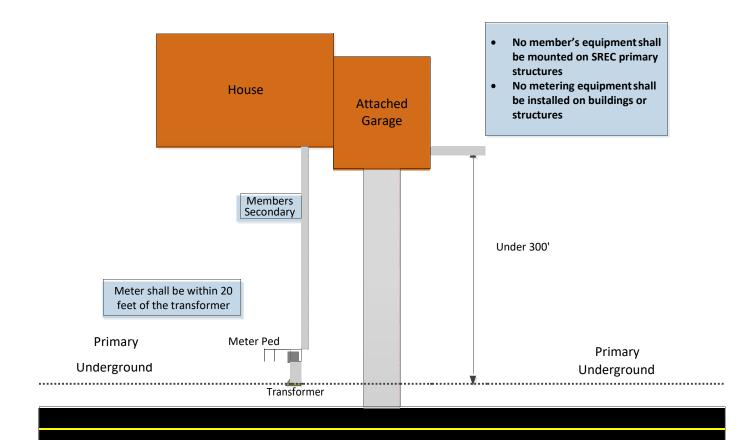


Total Secondary (Utility and Member) Not to Exceed 300' to the Main Service Location

Last Revision Date: 1/20/2017

Wiring/Service Specifications and Recommendations

# Placement Guide New Service Metering Point Under 300' From SREC Facilities Underground Primary Line

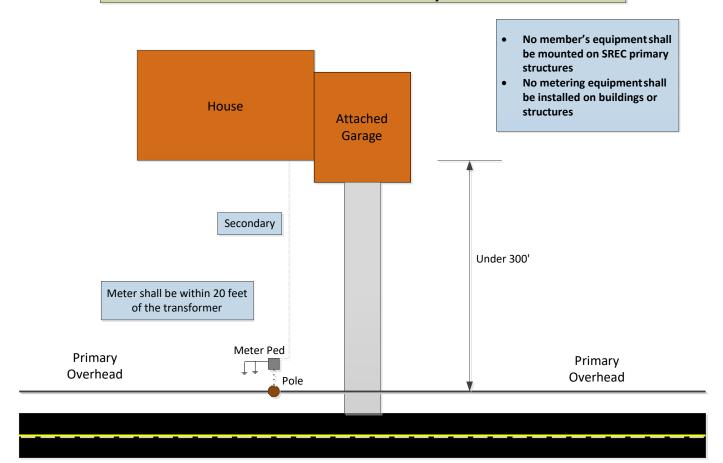


Total Secondary (Utility and Member) Not to Exceed 300' to the Main Service Location

Last Revision 1/20/2017

Wiring/Service Specifications and Recommendations

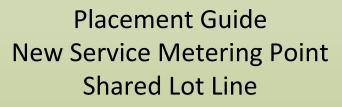
# Placement Guide New Service Metering Point Under 300' From SREC Facilities Overhead Primary Line

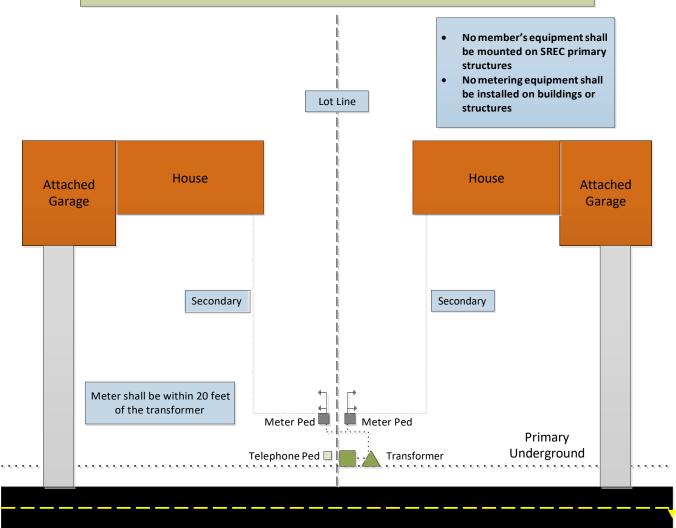


Total Secondary (Utility and Member) Not to Exceed 300'

Last Revision 1/20/2017

Wiring/Service Specifications and Recommendations

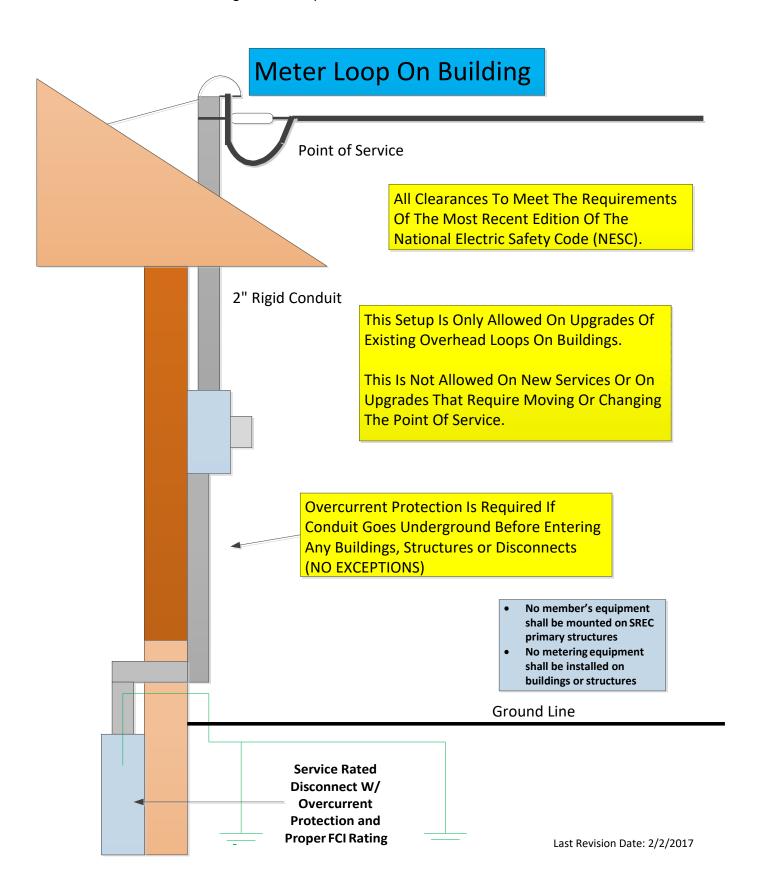




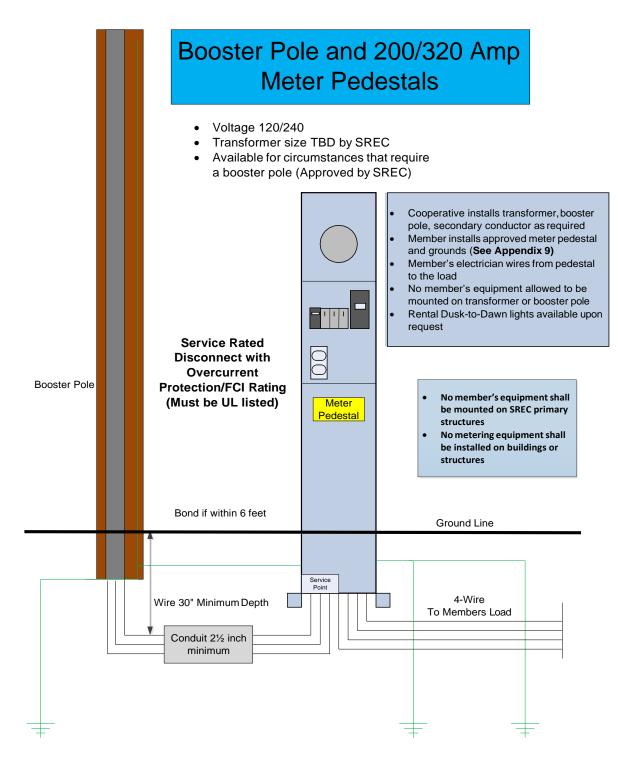
Total Secondary (Utility and Member) Not to Exceed 300' to the Main Service Location

Last Revision Date: 1/20/2017

Wiring/Service Specifications and Recommendations



Wiring/Service Specifications and Recommendations

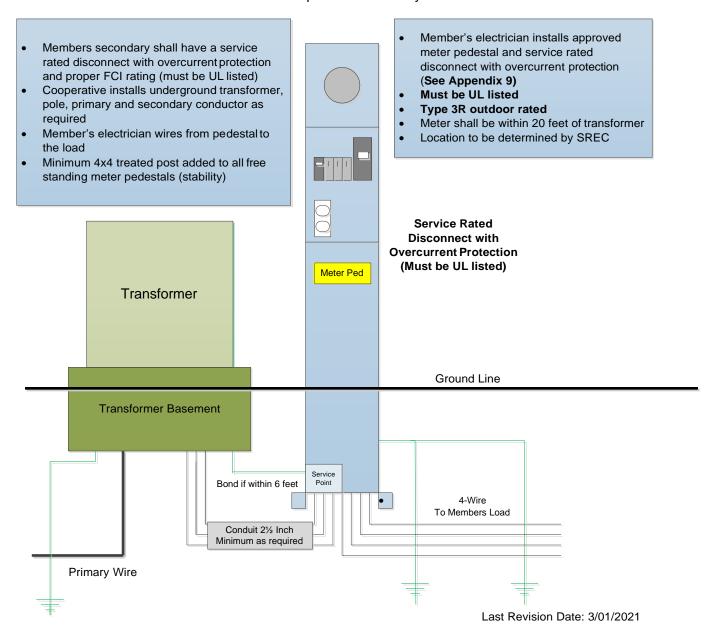


Last Revision Date: 12/2/2017

# Wiring/Service Specifications and Recommendations

# 200 Amp Meter Pedestal

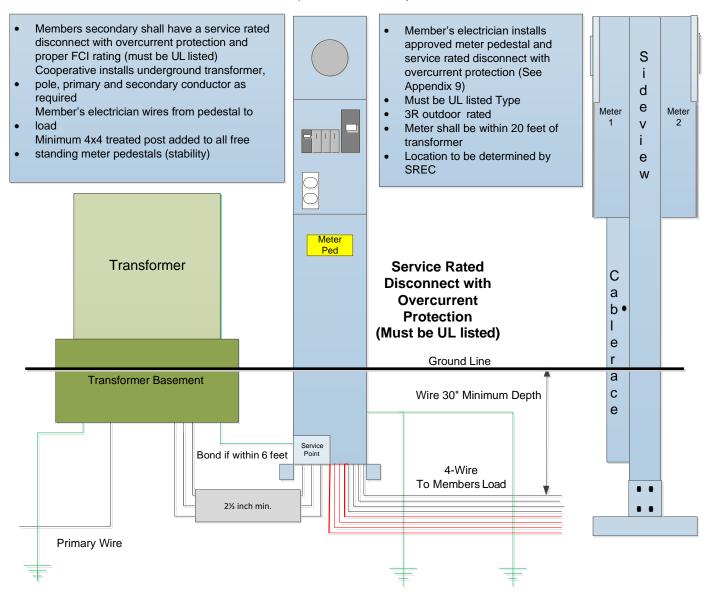
- Voltage 120/240
- · Transformer size TBD by SREC
- KVA charge over 25KVA
- · Location within 20 feet of transformer
- Transformer placement TBD by SREC



Wiring/Service Specifications and Recommendations

# 200 Amp Double Meter Pedestal

- Voltage 120/240
- Transformer size TBD by SREC
- KVA charge over 25KVA
- Location within 20 feet of transformer
- Transformer placement TBD by SREC

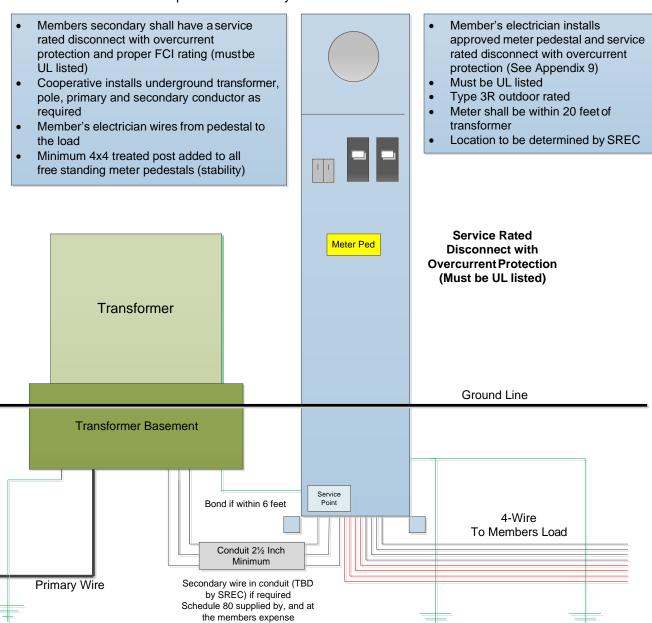


Last Revision Date: 3/01/2021

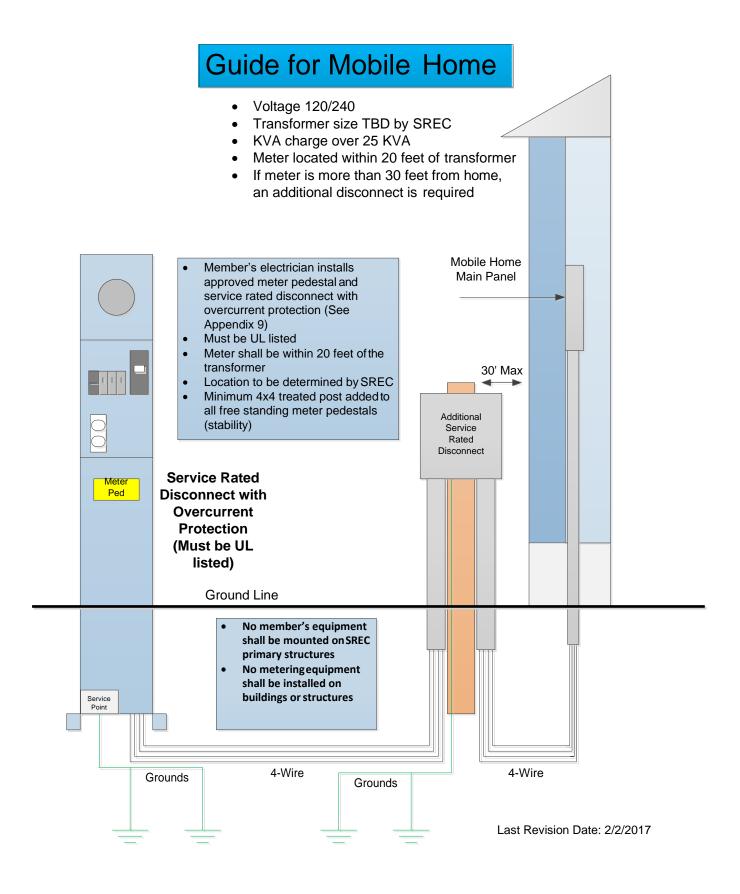
Wiring/Service Specifications and Recommendations

# 320 Amp Meter Pedestal

- Voltage 120/240
- Transformer size TBD by SREC
- KVA charge over 25KVA
- Location within 20 feet of transformer
- Transformer placement TBD by SREC



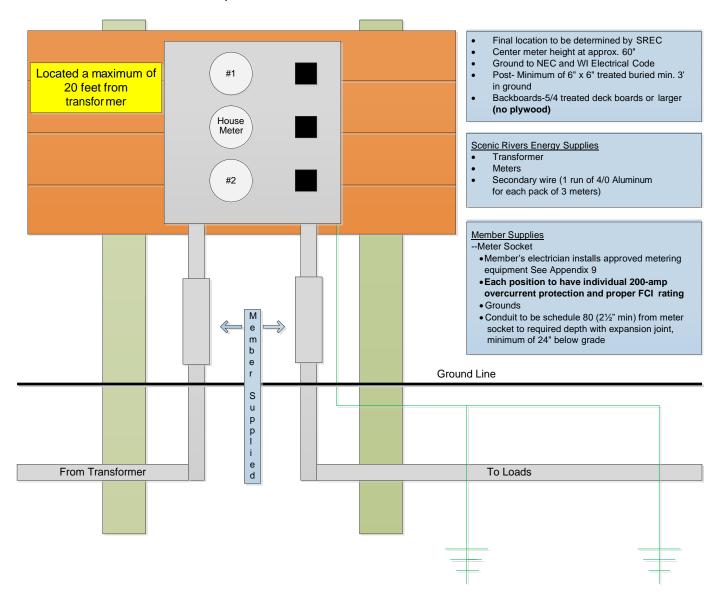
Last Revision Date: 3/01/2021



Wiring/Service Specifications and Recommendations

# **Duplex Metering**

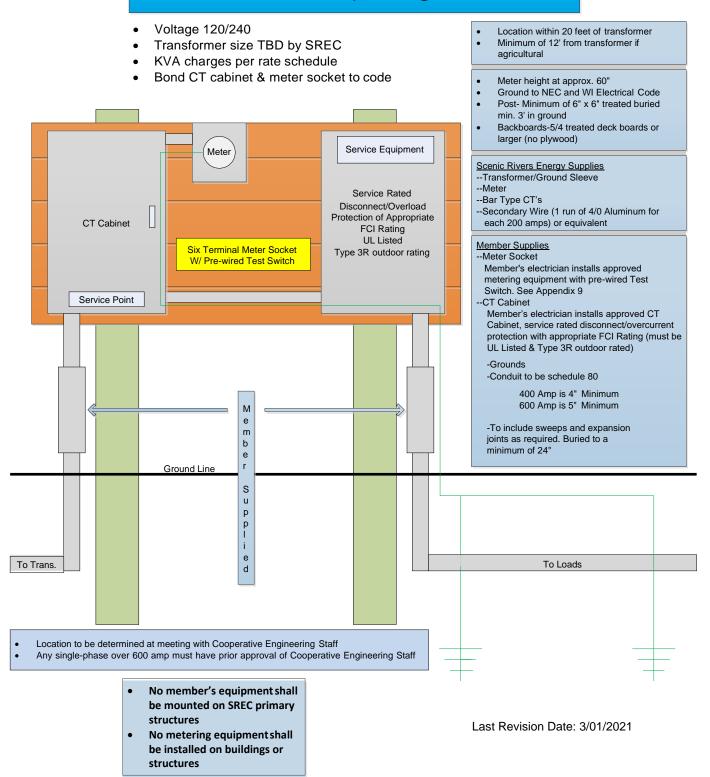
- Voltage 120/240
- Transformer size TBD by SREC (Max. 50 KVA per 3 pack)
- Metering shall be located within 20 feet of the transformer
- Transformer location to be determined by SREC
- For pedestals with more than 2 meters, verification of meter locations must be made by both SREC and electrician prior to meter installation



Last Revision Date: 03/01/2021

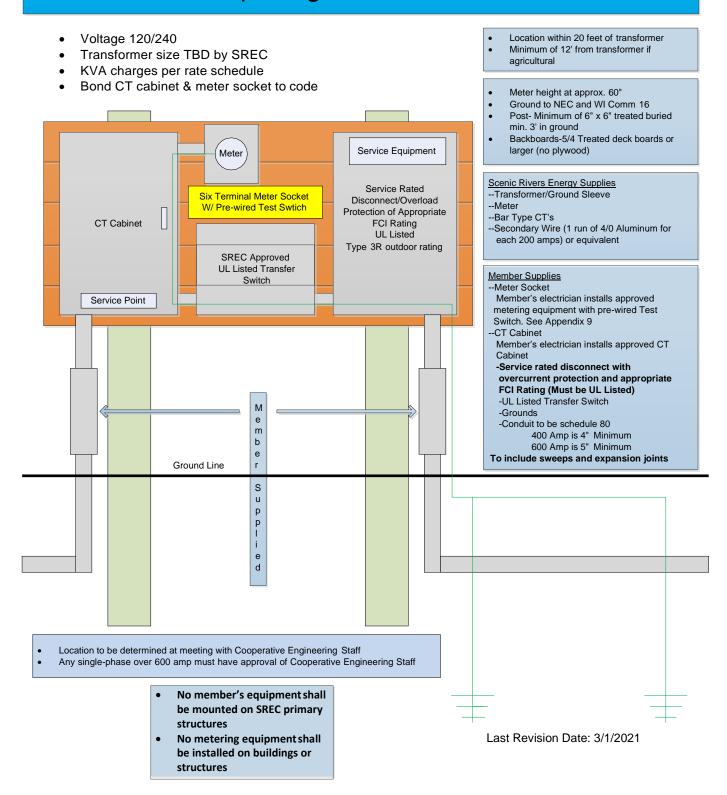
Wiring/Service Specifications and Recommendations

# 400 to 600 Amp Single Phase



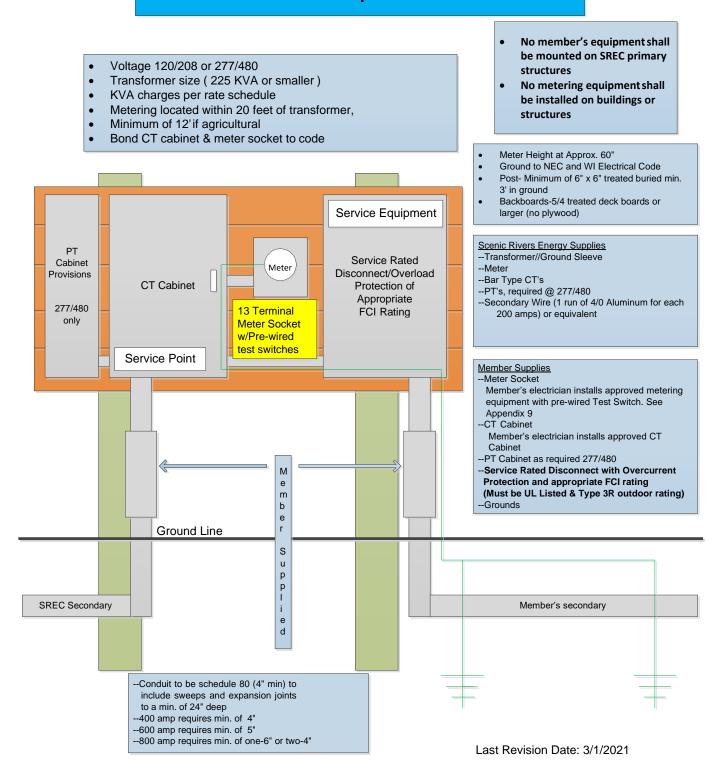
# Wiring/Service Specifications and Recommendations

# 400 to 600 Amp Single Phase w/Transfer Switch



## Wiring/Service Specifications and Recommendations

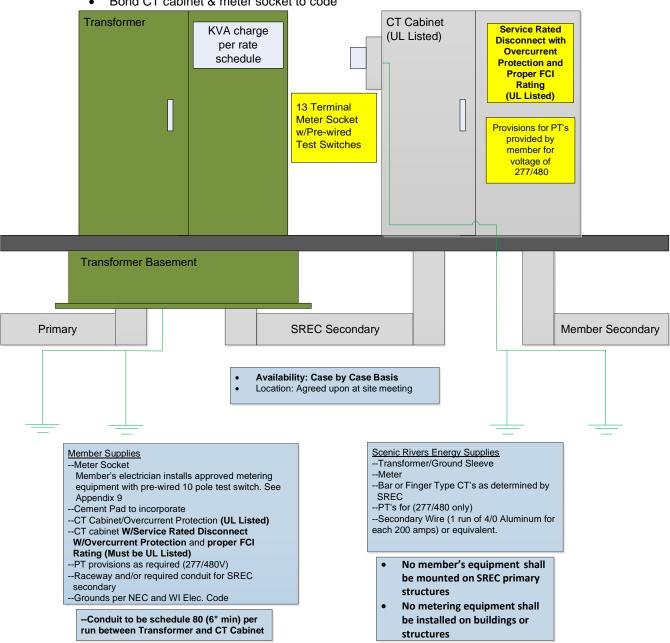
# 400 to 800 Amp Three Phase



Wiring/Service Specifications and Recommendations

# 1000 Amp and Larger Three-Phase

- Voltage 120/208 or 277/480
- Transformer size 300 KVA or Larger (KVA charges based on size of service)
- CT cabinet to be a minimum of 12' from the transformer if agricultural, maximum of 20' from transformer
- Final location to be determined by the Cooperative
- Bond CT cabinet & meter socket to code



Last Revision Date: 3/1/2021