

Adams Electric Cooperative

Permanent and Temporary Overhead and Underground Electrical Service

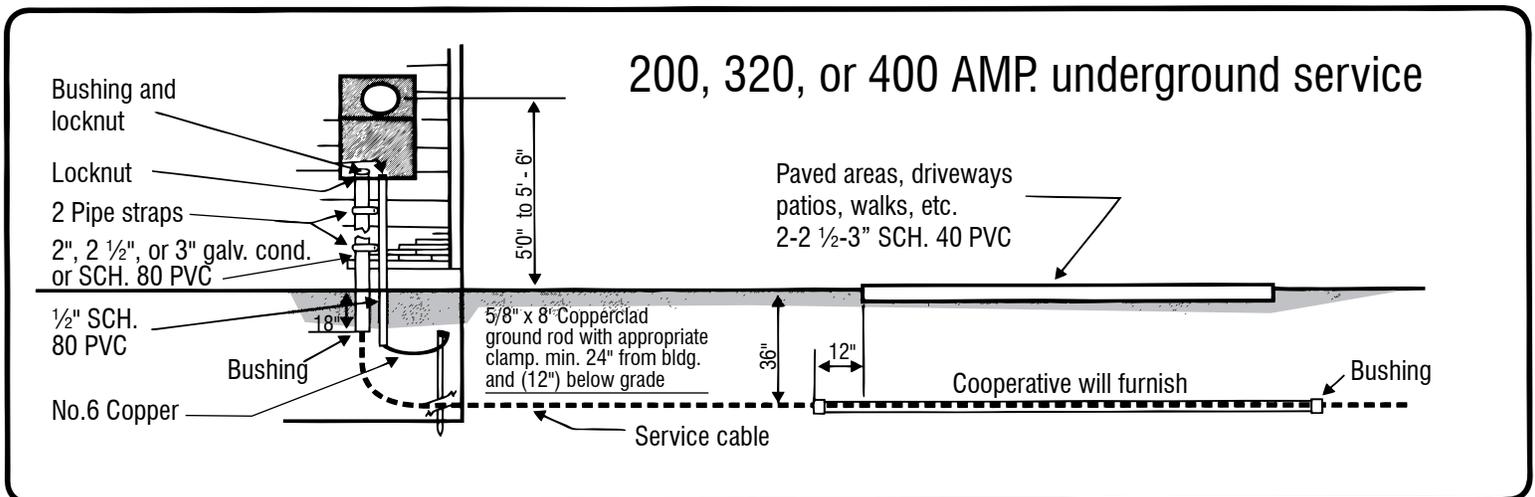
The furnishing and installation of electrical service requires coordination between the Cooperative, the Member and his Electrician. The following list of responsibilities and drawing is meant to clarify the coordination necessary. Please do not hesitate to call (217) 593-7701 or 1-800-232-4797, (Engineering & Operations Department) for more information if the need arises. Temporary meter service will be furnished by the member's electrical contractor and will have a 5/8" in diameter and 8 foot long copper-clad ground rod equipped with GFCI circuit breakers and meet all National Electric Code (NEC) requirements before the Cooperative will connect service. See sketches on back.

Member's Responsibility —

1. Pay the Cooperative a per foot charge for the electric service.
2. Purchase meterbase from Cooperative.
3. Furnish proper size and length of protective conduit with necessary bushings and locknuts to protect conductor from meterbase to below ground level. (See drawing).
200 Amp Service - At least 2" Conduit
200 Amp Service - Using any type sweeps - 2 1/2" conduit
320 Amp Service - At least 3" Conduit
400 Amp Service - At least 3" Conduit
4. All conduits must be either galvanized rigid steel or Schedule 80 PVC conduit.
5. If galvanized rigid steel conduit is used, a bonding type locknut and bushing must be installed in the meterbase. The jumper wire from the bonding type locknut and bushing to the ground lug will be sized according to NEC Table 250.66 (2011).
6. The grounding electrode conductor shall be in a 1/2 inch Schedule 80 PVC conduit separate from the energized conductors. Metal conduit shall not be used.
7. The size of the grounding electrode conductor shall not be less than given in NEC Article 250, Table 250.66 (2011).
8. Furnish and install proper ground rod (8ft. x 5/8" copper-clad), grounding electrode conductor and ground rod clamp. (See drawing).
9. Meterbase, conduit and fittings must be properly installed before the Cooperative will provide service.
10. Pay for protective conduit underneath roads, driveways, walks, etc.
11. Locate all of member's water lines, septic lines, electric lines, etc., and if not located or mislocated then it is the member's responsibility to repair or cover costs to repair their own equipment.
12. If cooperative is required to finish member's requirements, the member will be billed time and material.

Cooperative's Responsibility —

1. Furnish and install conductor from transformer to the meterbase.
2. Furnish and install conductor protection on the transformer pole.
3. Dig trench at least 24 inches deep for secondary wire and 30 inches deep for primary cable. The member may be required to furnish trench, conduit and backfilling to Cooperative's specifications.
4. After original back filling of trench, it will be the member's responsibility to maintain the trench.



Member Received: _____ Date: _____

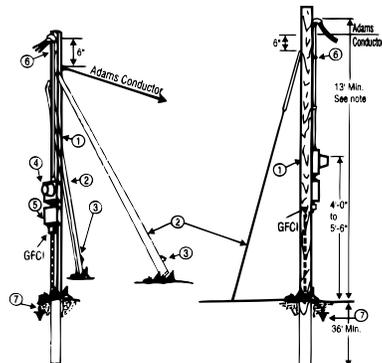
Signature

Notes: _____

Temporary Overhead

Temporary Is required to be within (20') of source unless agreed upon by cooperative personnel.

NOTE: Temporary service structure shall be adequately supported and sufficiently high to maintain clearance as required by code.

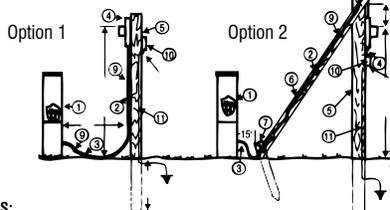


1. Temporary service pole 5" dia. minimum, or 3-2" x 4"s nailed together.
2. 2" x 4" braces or guy and anchor as required Braces shall be attached to the pole 10 feet above the ground and 5 feet from the base of the pole in such direction to give maximum support for the service wires.
3. 2" x 4" stakes.
4. Cooperative approved meter socket.
5. Member service entrance installed in accordance with National Electrical Code requirements.
6. Conduit or cable straps as required.
7. Member Grounding per National Electrical Code requirements. (See front sketch for ground rod application.)
8. Member will furnish conductor from weatherhead of meter loop to transformer.

Temporary Underground

Cooperative to furnish and install following equipment:

1. Connectors (in padmount transformer or pedestal.)
- Member to furnish and install following equipment:
2. Cable clamps or staples as required.
3. Entrance cable or conduit enclosed conductors.
4. Cooperative approved meter socket.
5. Temporary service pole 5" dia. minimum, or 3-2" x 4"s nailed together.
6. 2" x 4" brace.
7. 2" x 4" stake. (In cases where the temporary service pole cannot be installed in the ground due to frost, stakes used to stabilize temporary service pole shall not be installed within 3 feet of the underground conductor route.)
8. Weatherhead.
9. Service entrance cable.
10. Member service entrance installed in accordance with National Electrical Code Requirements with GFCI Breaker.
11. Member grounding per National Electrical Code. (See front sketch for ground rod application.)
12. Member will furnish conductor from meter base to pedestal or transformer.

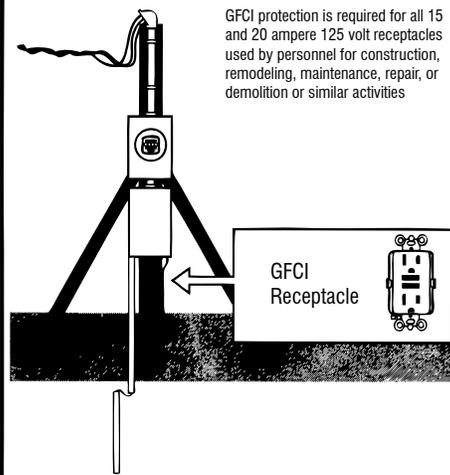


NOTES:

1. Location of temporary service shall be specified by the Cooperative. Care should be taken to avoid proposed permanent service route.
2. Temporary service shall be located to prevent damage to existing underground conductors and to avoid permanent underground service route.
3. Connections in pedestal or transformer shall be made by Cooperative.

Ground Fault Protection for Personnel Temporary Power Supply

Section 305-6(a)

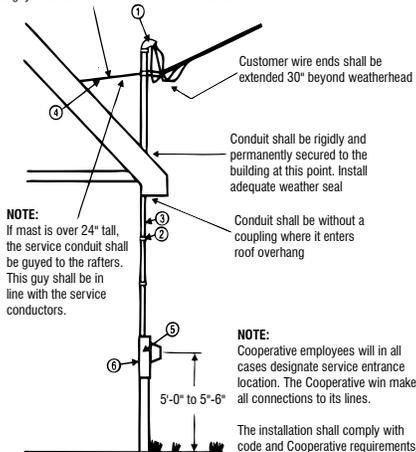


GFCI protection is required for all 15 and 20 ampere 125 volt receptacles used by personnel for construction, remodeling, maintenance, repair, or demolition or similar activities

(See front sketch for ground rod application.)

Meter loop mounted on house with mast through overhang

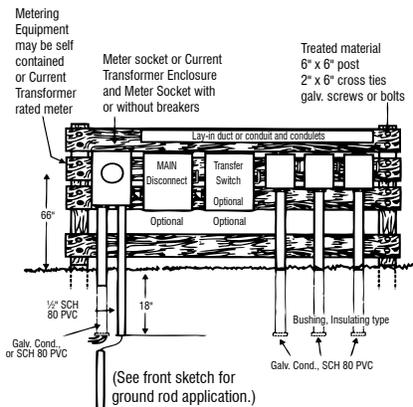
NOTE: The service conduit shall be guyed to the rafters. This guy shall be in line with the service conductors.



- NOTE:** If mast is over 24" tall, the service conduit shall be guyed to the rafters. This guy shall be in line with the service conductors.
- NOTE:** Cooperative employees will in all cases designate service entrance location. The Cooperative will make all connections to its lines. The installation shall comply with code and Cooperative requirements.
1. Code approved weatherhead. (See front sketch for ground rod application.)
 2. Pipe or cable straps as required.
 3. Galvanized rigid steel conduit.
 4. Guy Wire
 5. Cooperative approved meter socket.
 6. On frame type construction, the member shall furnish and install adequate backing to which the meter socket can be securely mounted.

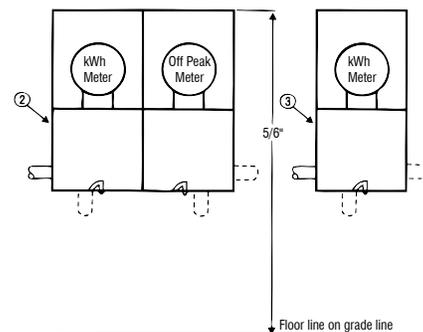
Structure mounted meterbase and customers disconnects

Size of switches, conduit, nipples, conductor, etc. to be sized in accordance with requirements of other articles in these specifications. Overcurrent protection and disconnect switch recommended.



All equipment shall be for outside use. All metallic equipment shall be grounded. All screws, bolts and nails galvanized.

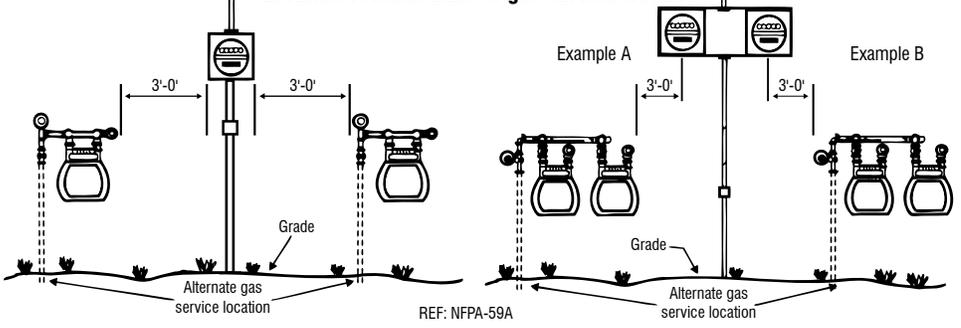
Meter sockets and locations



NOTES:

1. Cooperative furnished meter socket installed by member. In all cases the Cooperative shall designate whether a single or duplex meter socket shall be used and where it will be located.
2. Duplex meter socket.
3. Single meter socket.

Location of meter base to gas service location



REF: NFPA-59A

Material List

200 amp Meter Base

- (2") SCH 80 PVC Conduit
- 2- (2") PVC Male Adpt.
- 2- (2") Plastic Bushings
- 1- (2") Lock Nut
- 2- (2") Pipe Straps with Screws

If using sweeps use (2 1/2") material
 (1/2") SCH 80 PVC Conduit
 1- (1/2") PVC Male Adpt.
 1- (1/2") Lock Nut
 1- (1/2") Plastic Bushing
 1- (1/2") Lock Nut
 1- (1/2") Plastic Bushing
 2- (1/2") Pipe Straps with Screws

10' #6 Copper Ground Wire
 2- (1/2") Pipe Straps
 10' # 6 Copper Ground Wire
 1- (5/8" x 8') Ground Rod
 Use SCH 80 PVC or galvanized conduit. If galvanized conduit is used will need to supply correct size metallic grounding bushing.

Material List

320-400 amp Meter Base

- (3") SCH 80 PVC Conduit
- 2-(3") PVC Male Adpt.
- 2-(3") Plastic Bushings
- 1-(3") Lock Nut
- 2-(3") Pipe Straps with Screws
- (1/2") SCH 80 PVC Conduit
- 1-(1/2") PVC Male Adpt.
- 1-(1/2") Lock Nut
- 1-(1/2") Plastic Bushing
- 2-(1/2") Pipe Straps with Screws
- 10' #6 Copper Ground Wire
- 1-(5/8"x8') Ground Rod
- 1-(5/8") Ground Rod Clamp
- Use SCH 80 PVC or galvanized conduit. If galvanized conduit is used will need to supply correct size metallic grounding bushing.