

MINIMUM REQUIREMENTS : ROOF RISER INSTALLATIONS

SINGLE PHASE, 120/240 VOLTS, 3 WIRE SERVICE, 100 AMP. MINIMUM.

GENERAL

The Cooperative will supply and install a service drop to a mast and the service attachments on the mast.

All material supplied by the Cooperative remains the property of the Cooperative.

All service entrance equipment, including mast, is to be supplied and installed by the member.

The member shall purchase a meter base from the Cooperative or purchase an approved meter base and install it on the house at their expense.

A weatherhead shall be used of proper type for number and size of wires used.

The roof riser shall only be rigid galvanized steel conduit, of size indicated below, securely fastened to the building. It shall be of length such that the weatherhead shall be a minimum of (18) inches above the roof if within four (4) feet from the edge of the roof, otherwise it shall be three (3) feet above the roof and/or twelve (12) feet minimum above ground level.

The roof riser passage through roof shall be completely waterproof. From the meter base to the main switch, installations may be either service entrance cable or wire in conduit, as desired by the member. If cable is used from the meter base to the main switch, a non-watertight connector may be used at the bottom of the meter base. Main switch and fuse box shall be located nearest the point of entrance of the service entrance conductors as stated in the National Electric Safety Code.

Risers (3) feet and over must be guyed properly.

GROUNDING

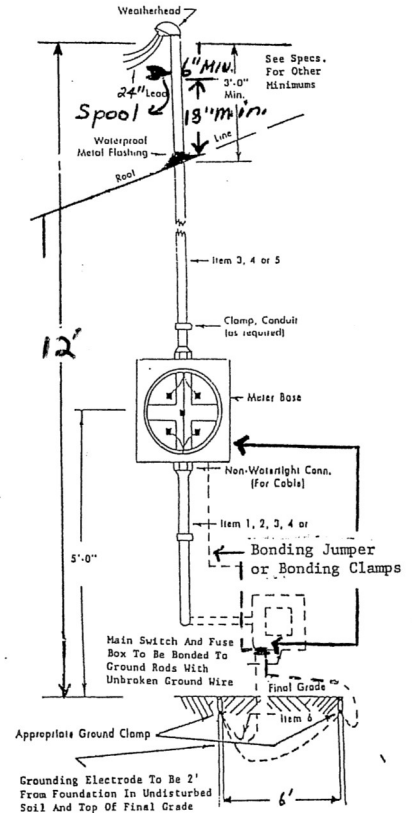
Ground wire shall be one continuous length with out a splice or joint from the main switch to the grounding electrode.

Ground clamp must connect the ground wire securely on two driven grounding electrodes – minimum of 6' apart in undisturbed earth.

Driven grounding electrode must be rod: 5/8" x 8' copper clad rod or 5/8" x 8' solid rod, galvanized.

NOTES

1. All installations to be made according to this sketch.
2. All materials to be approved by the Underwriters Laboratories.
3. All wiring to be in accordance with the National Electric Safety Code and certified by a Cooperative approved inspection agency.
4. Always have a qualified electrician take care of your wiring needs.
5. Members not following these minimum specifications may be refused service connection.
6. Service connections and/or meter removal shall be done only by authorized Cooperative personnel.
7. Reduced neutral may be allowed.
8. All service entrances will be located by Cooperative personnel and above clearances may be greater. Any change to the service entrance location without authorization of Cooperative personnel may incur an additional expense to the member.



ITEM	MATERIAL	100 AMPERE SERVICE	150 AMPERE SERVICE	200 AMPERE SERVICE	300 AMPERE SERVICE	400 AMPERE SERVICE
1	Service Entrance Cable, Type SEU Copper Wire	#4	#1	#2/0		
2	Service Entrance Cable, Type SEU Aluminum Wire	#2	#2/0	#4/0		
3	Copper Wire, Type THW in Conduit	#4	#1	#2/0	350 MCM	500 MCM
4	Aluminum Wire, Type THW in Conduit	#2	#2/0	#4/0	500 MCM	750 MCM
5	Conduit Above Meter	2"	2"	2"	3"	3" 3½"
6	Conduit Below Meter	1½"	2"	2"	2½" 3"	3" 3½"
7	Copper Ground Wire to Driven Grounding Electrode	#6	#6	#4	#1/0	#1/0