



MINIMUM REQUIREMENTS : METER LOCATION ON POLE—UNDERGROUND

SINGLE PHASE, 120/240 VOLTS, 3 WIRE SERVICE, 200 AMP. MINIMUM

GENERAL

The Cooperative will supply and install the conduit, cable and weatherhead from the top of the pole to member installed meter pan. The member shall purchase a meter base from the Cooperative or purchase an approved meter base and install on the pole at his expense.

All service entrance equipment from the meter box to the house is to be supplied and installed by the member, including proper size conduit from the meter base to 12" below ground level. **(A frost sleeve is required between the meter pan and ground level)**

Conduit from the meter base to 12" below ground level, shall be rigid galvanized steel or rigid non – metallic conduit or Schedule 80 PVC. It shall be of proper size as indicated below and securely fastened to the pole and the side of the house with suitable clamps.

The main switch and fuse box shall be located at a readily accessible location nearest the point of entrance of the service entrance conductors in the house as stated in the National Electric Safety Code.

GROUNDING

Ground wire shall be one continuous length without a splice or a joint from the main switch to the grounding electrode. Ground clamp must connect ground wire securely on two driven grounding electrodes – minimum of 6' apart in undisturbed earth.

Driven grounding electrodes must be a rod: 5/8" x 8' copper clad rod or 5/8" x 8' solid rod, galvanized. PVC installed on the pole and/or the house requires a 3 wire cable from the pole to the house. If metal conduit is used on either end, it must be bonded to either the meter box and/or the service panel.

Metal conduit used on the pole and the house requires a 3 wire cable plus a ground wire bonded from the metal conduit and meter box on the pole to the metal conduit and panel at the house.

If continuous run of metallic conduit is installed from the meter box on the pole to the house panel, then bonding bushings must be used to bond the meter box and panel together. In this case a 3 wire cable may be used between each point.

On all of the above cases 2 ground rods must be installed at the house.

NOTES

1. All installations to be made according to this sketch.
2. All material to be approved by the Underwriters Laboratories.
3. All wiring to be in accordance with the National Electric 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.

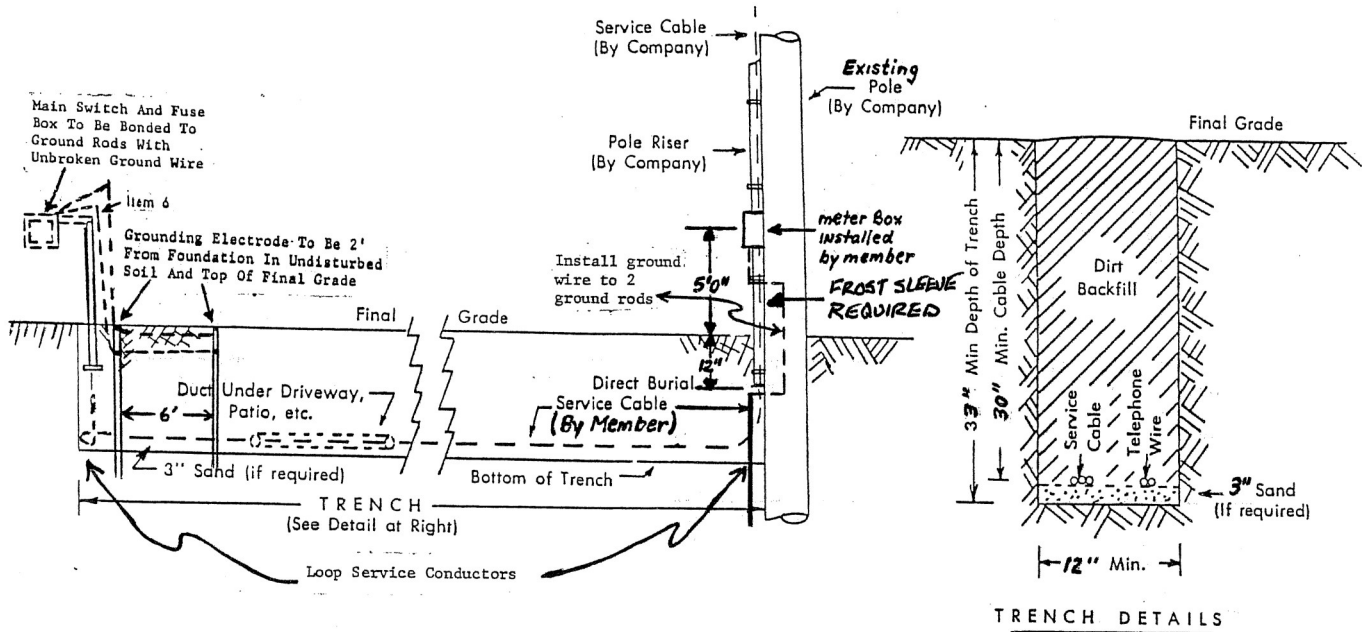
SEE REVERSE SIDE FOR TRENCHING SPECIFICATIONS

ITEM	MATERIAL	100 AMPERE SERVICE	150 AMPERE SERVICE	200 AMPERE SERVICE	300 AMPERE SERVICE	400 AMPERE SERVICE	600 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	6-350 MCM
4	Aluminum Wire, Type THW In Conduit	#2	#2/0	#4/0	500 MCM	750 MCM	6-500 MCM
5	Minimum Conduit Size	1½"	2"	2"	3"	3"	4"
6	Minimum Conduit Size For UG Service Conductors	2"	2"	2"	3"	4"	4"
7	Copper Ground Wire To Driven Grounding Electrode	#6	#6	#4	#1/0	#1/0	#1/0

DETAILS FOR UNDERGROUND SERVICE INSTALLATIONS

From Pole Mounted or Pad-mount Transformer

600 Volts Maximum



The trench depths specified are minimum and are measured from final grade.

The trench widths specified are minimum and shall be increased as necessary to obtain the required depth in loose soil.

The trench shall be dug so that the bottom has a level grade and the bottom of the trench shall be relatively smooth, undisturbed earth or tamped earth or sand. **Large rocks, stones and gravel in excess of one inch shall be removed from the bottom and sides of the trench.** Where this cannot be done, a three inch layer of clean masonry sand shall be placed in the bottom of the trench, and screened dirt (using a one inch mesh screen) shall be used for backfill. **TRENCH SHALL NOT BE BACKFILLED WITH EXCESS CONSTRUCTION MATERIALS SUCH AS CONCRETE BLOCK, LUMBER, DRYWALL, ETC.**

If proper depths cannot be maintained from final grade, galvanized conduit or Schedule 40 PVC must be used. All trenches parallel to the building foundation shall be no closer than four (4) feet.

The trench shall be backfilled as described above as soon as possible after the placing of the cable. The top twelve inches of such backfill shall be well tamped while backfilling, and shall be banked over the top of the ditch to provide for settling of the backfill.

Duct shall be installed under driveways, patios or other paved areas. Duct may be either galvanized pipe, Type II Fiber duct or Schedule 80 PVC. The minimum size shall be 3".

Members not following these minimum specifications may be refused service connection.

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