

# **SERVICE ATTACHMENT TO SIDE OF HOUSE**

## **SINGLE PHASE, 120/240 VOLTS, 3-WIRE SERVICE, 100 AMP MINIMUM**

### **GENERAL**

The Co-op will supply, install, and own the service drop to house and the service wire attachments on the house. All service entrance equipment, including weather-head and insulator, is to be supplied and installed by member.

A weather-head shall be used of proper type for the number and size of wire used. Height of weather-head shall not be less than eleven feet above ground level.

Conduit, if used, shall be rigid galvanized steel, rigid aluminum, Schedule 40 PVC or electric metallic tubing. It shall be of proper size, as indicated below, and securely fastened to side of house.

From meter pan to main switch, installations may be either service entrance cable or wire in conduit, as desired by member. If cable is used from meter pan to main switch, a non-watertight connector may be used at bottom of meter pan.

Main switch and panel box shall be located at a readily accessible location nearest the point of entrance of the service entrance conductors.

### **GROUNDING**

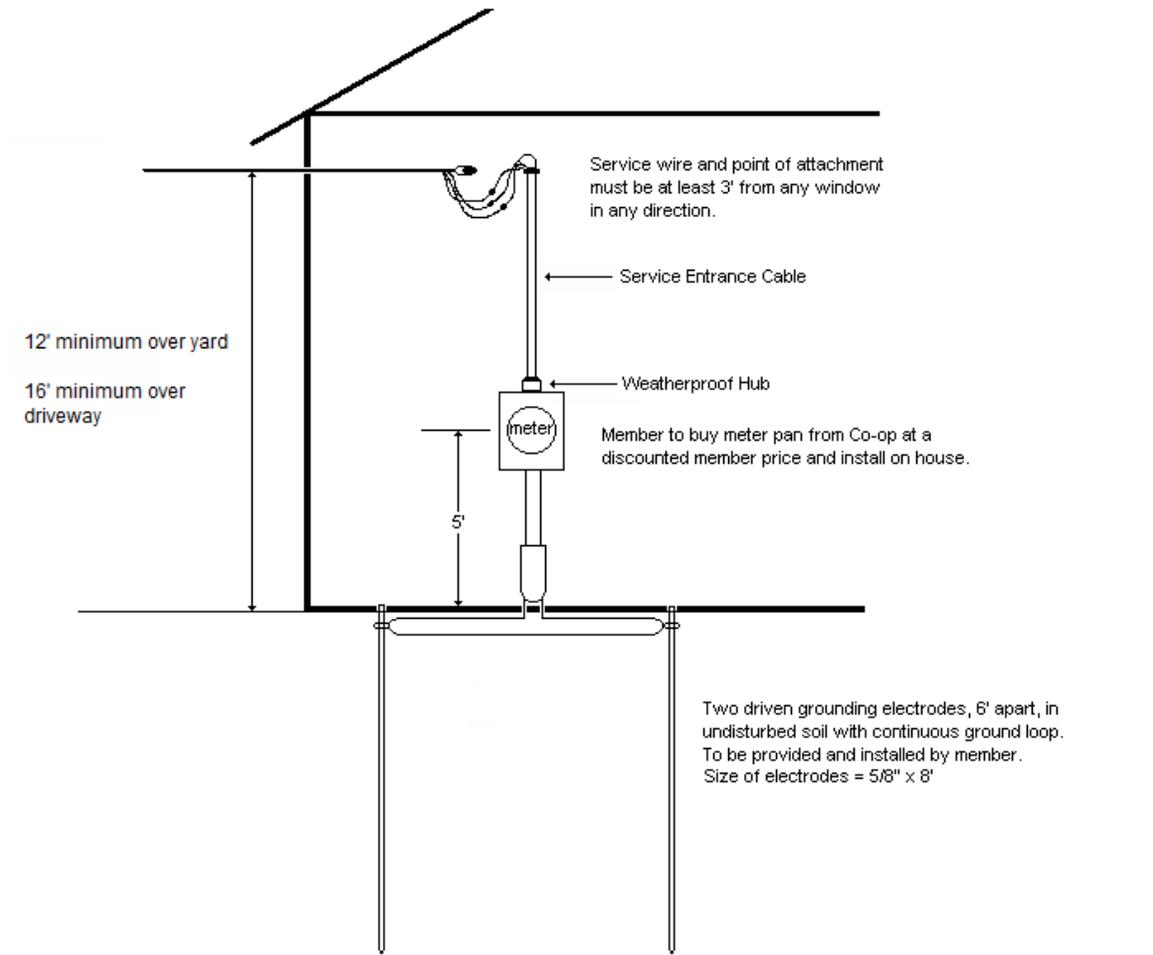
Ground wire shall be one continuous length, without splice or joint, from main switch to grounding electrodes. Suitable clamp must connect ground-wire securely to two driven ground rods - minimum 6' apart in undisturbed earth.

Grounding electrodes must be rods: 5/8" x 8' solid rod, either galvanized or copper-clad.

### **NOTES**

1. All installations to be made according to the diagram on reverse side.
2. All materials to be approved by the Underwriters Laboratories.
3. All wiring to be in conformance with the National Electric Code and the National Electric Safety Code, current edition, 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 approval 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 from the Cooperative may incur an additional expense to the member.

ITEM	MATERIAL	100 AMP SERVICE		150 AMP SERVICE		200 AMP SERVICE		300 AMP SERVICE		400 AMP SERVICE		600 AMP 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		2"		2"		2"		3"		3"	3 1/2"	4" 4"
6	Minimum Conduit Size For UG Service Conductors		2"		2"		2"		3"		4"		4"
7	Copper Ground Wire To Driven Grounding Electrodes	#6		#6		#4		#2		#1/0		#1/0	



\*Grounding to meet National Electric Code on new construction

(DH, Sept '15)