

PRENTISS COUNTY ELECTRIC POWER ASSOCIATION  
GENERAL ELECTRICAL REQUIREMENTS

THE FOLLOWING REQUIREMENTS MUST BE MET BEFORE SERVICE WIRES ARE CONNECTED:

I. METER LOCATION: Must be pre-approved by PCEPA engineer.

II. METER BASE TO WEATHERHEAD:

- A. The weatherhead must be at least 10' 6" above ground level and/or 3' above roof.
- B. If piperiser is required, it must be 2" rigid galvanized metal conduit extended between 3' and 4' above roof. Installation instructions are contained in special drawing which will be furnished upon request.
- C. Meter base shall be mounted so that the center of the meter shall be not less than 5' nor more than 6' above ground level.
- D. Rigid galvanized metal conduit (no exception) of the proper size shall be installed from the meter base to weatherhead.
- E. Conduit and wire from meter base to weatherhead shall be sized as a minimum as follows:

SWITCH BOX SIZE	GALVANIZED CONDUIT SIZE	HOT WIRE SIZE	NEUTRAL SIZE	BARE GROUNDING WIRE
60 AMP	1"	#6	#6	#4
100 AMP	1 1/4"	#2	#4	#4
200 AMP	2"	#3/0	#2	#4
400 AMP	2 1/2"	#500MCM	#250MCM	#1/0

ONLY COPPER WIRE (TYPE THHN OR THWN) ALLOWED

III. SWITCHBOX: Fused or breaker box must be located at a readily accessible location either inside or outside the building. If outside, a raintight switchbox is required. Residential switchboxes shall be sized as follows:

- A. Small homes with only lights and small appliances ----- 60 AMP
- B. Normal appliances and less than 8,000 watts electric heat ----- 100 AMP
- C. Normal appliances and from 8,000 to 24,000 watts electric heat ---- 200 AMP
- D. Commercial installations and residential installations of more than 24,000 watts of electric heat require individual attention.

IV. METER TO SWITCHBOX:

- A. Wire from meter base to switchbox shall be enclosed in rigid galvanized metal conduit or for 100 Amp or smaller "Service Entrance Cable" is approved. Thin wall metal conduit(EMT) is accepted in enclosed areas (in walls, floors, attics, etc.).
- B. Wires from meter base to switchbox must be sized according to table in II.E above.

V. GROUNDING WIRE: bare copper wire must extend without splice from approved 8' ground rod to the weatherhead on the outside of meter base and conduit. When piperiser is used the ground wire is permitted to pass through the meter base and conduit out the weatherhead. It must be unbroken and secured in meter base. This grounding wire is in addition to the neutral wire required in II.E. above.