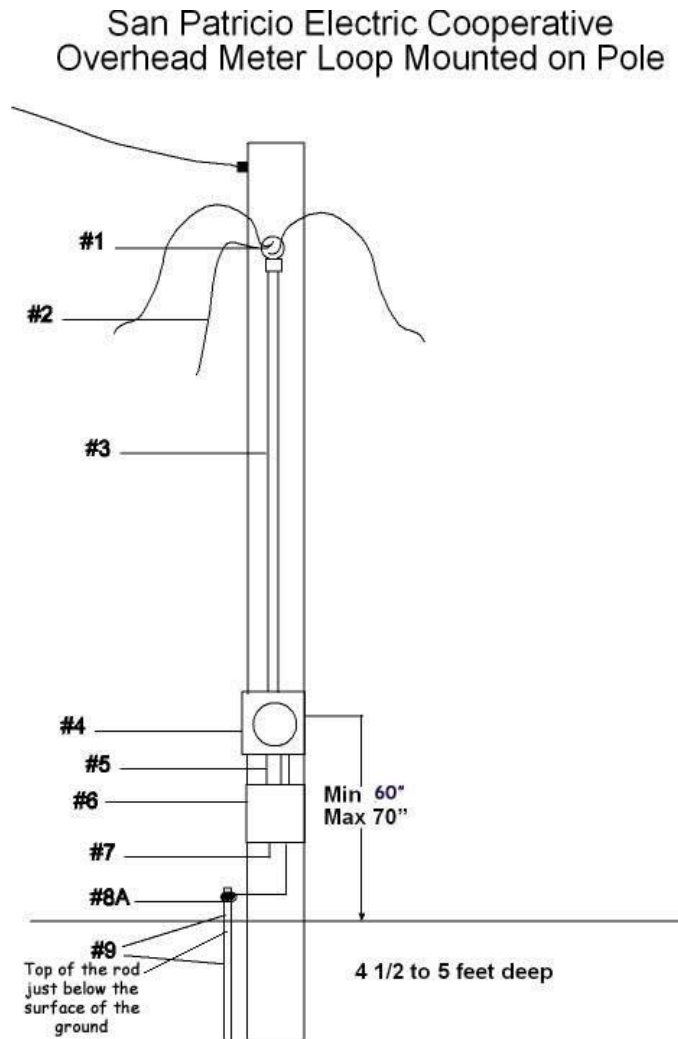


## San Patricio Electric Cooperative

(361) 364-2220

### Meter Loop Diagram Mounted on Pole

**IT IS REQUIRED THAT ALL POLE MOUNTED METER LOOPS BE ON THE WORK SITE ON THE DAY THAT CONSTRUCTION IS SCHEDULED IN ORDER FOR WORK TO BE DONE.**



Installed on a **30-ft. meter pole** as provided by San Patricio Electric

1. Weather head
2. Mark neutral with white tape or use white colored wire. Wire must extend out of weatherhead at least 24".
3. Riser shall be made of rigid galvanized conduit, rigid aluminum conduit, Schedule 80 Electrical Grade PVC. **(EMT is not acceptable).**
4. Ringless Meter Enclosure.
5. PVC TA's (Treaded Adapters) with lock rings and plastic bushing from Meter enclosure to panel. If threaded galvanized nipple is used, there must be a bonding bushing installed on the panel side with the ground wire passing through the lug. Chase must be same diameter as riser conduit above meter can. Length must be a minimum of 4" but not more than 6".
6. Breaker Panels with Hub (**MUST HAVE MAIN BREAKER**).
7. Ground Wire #6 green stranded/solid up to 150 amp, #4 green up to 225 amp, #2 green up to 320 amp. Ground wire starts in meter enclosure and passes out to ground rod. From the panel the wire must be in PVC conduit.
8. Wire and Conduit should be sized according to Meter loop amp rating. (See chart on back)
9. 5/8" x 8' Copper Weld Ground Rod & Clamp shall be fully driven into earth with the top of the rod just below the surface of the ground.

## San Patricio Electric Cooperative

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### Meter Loop Diagram Mounted on Pole

## CONSTRUCTION of a 3 WIRE METER LOOP

Consumers may set their own meter pole. NOTE: Contact SPEC about placement of meter pole in relation to transformer pole BEFORE placing meter pole. The meter pole must be a minimum of 20 feet in length with a 6" top. Pole must be set 5 feet deep in the ground. Meter loop riser must extend to within 18" from top of the pole. Meter loop should be mounted on the pole so that meter can is a minimum of 60" from ground level and a maximum of 72" from ground level. A 5/8" X 8' copper weld ground rod and copper weld ground rod clamp must be installed with a minimum size #6 green copper ground wire up to 125 amp service and minimum #4 green copper ground wire up to 225 amp service.

Meter loop must be completely assembled by the member or by an electrician in order to be connected. Co-op employees will not help in the assembling of a meter loop on the job site. The Co-op shall determine the acceptability of the meter loop before the connection is made.

San Patricio Electric has a licensed electrician that builds meter loops and offers other services as well. For a price quote please call the Cooperative at (361) 364-2220 Ext.132

Meter Loop shall be made of rigid galvanized conduit, rigid aluminum conduit, or Schedule 80 Electrical Grade PVC. (EMT is NOT ACCEPTABLE). A minimum size of #6 stranded copper is required.

**Mobile Home/Manufactured Home Service Equipment.** The mobile/manufactured home service equipment shall be located adjacent to the mobile/manufactured home and NOT mounted in or on the mobile home. The service equipment shall be located in sight from and not more than 9.0 m (30 ft) from the exterior wall of the home it serves.

Meter and Main disconnect must be located on the outside area of any structure and must be accessible to the Cooperative. Disconnect must be located directly below the meter. Disconnect must be breakers or fuses.

(BLADED DISCONNECT SWITCHES ARE NOT ALLOWED).

**Reduced neutral not allowed.**

### CONSTRUCTION of 5 WIRE METER LOOP WILL NO LONGER BE ACCEPTED.

Consumer wiring from the load side of the consumer's breaker box can not be run back up through the meter can and the main meter loop riser. To feed consumer overhead services, a separate riser pipe must be installed from the breaker box to run back up the pole. This riser must also have a neutral wire in it. Riser must be electrical grade Galvanized Conduit or Rigid Aluminum Conduit. The clearance of this riser must also meet height requirements.

<u>Wire Size</u>	<u>Meter Loop Size</u>	<u>Conduit Size</u>
#2 cu	125 amp service	1-1/4"
#1 cu	150 amp service	1-1/2"
#2/0 cu	200 amp service	2"
#3/0 cu	225 amp service	2"
#350	320 amp service	3"

**Aluminum Wire Not Allowed**

### Ground Clearance

NOTE: For 120/240-volt service drop installations, minimum clearances must be maintained according to SPEC regulations: The guidelines on ground clearances for service conductors as described MUST BE FOLLOWED.

12' of clearance should be maintained where no traffic is present.

15' of clearance should be maintained over driveways.

22' of clearance should be maintained over roadways.

3.5' of clearance should be maintained over building roof.