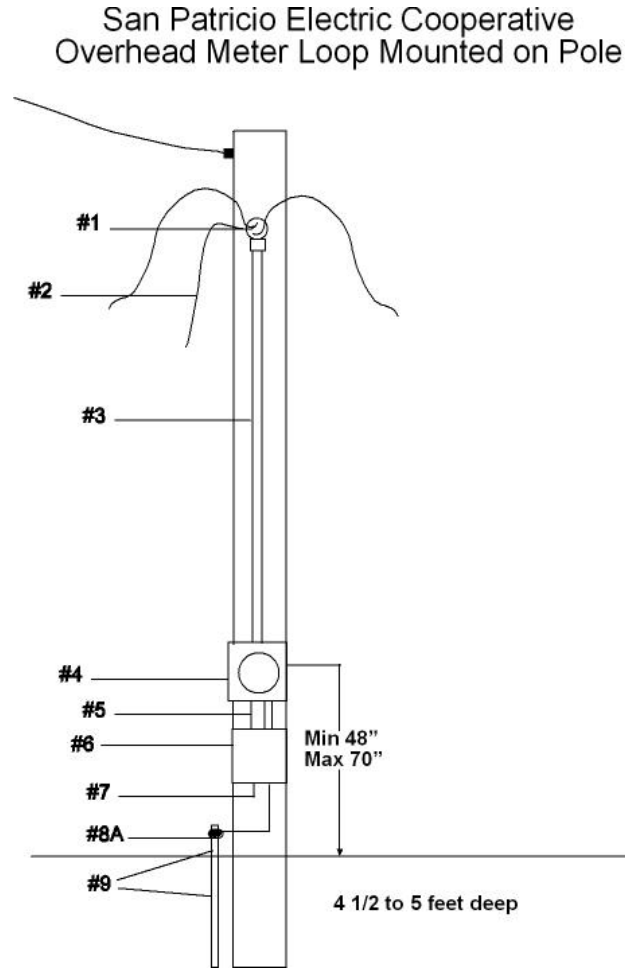


San Patricio Electric Cooperative - 361-364-2220
Meter Loop Diagram Mounted on Pole

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. Weatherhead
2. 62-feet of copper wire cut into three equal lengths. Neutral must be marked with white tape. Wire must extend from weatherhead at least 24".
3. **15-foot** electrical grade **Rigid, Aluminum Rigid** or **Gray PVC** for Riser.
4. Meter enclosure.
5. PVC threaded adapters (TA's) or threaded galvanized nipple as pipe connection (Chase) between Meter and Panel. Chase must be same diameter as the riser and a minimum of 4" but not more than 6". Lock rings and plastic bushing are required on chase. (Bonding bushing must be used on galvanized nipple)
6. Breaker box with hub. (Panel must be **Main Breaker** equipped)
7. Minimum #6 copper ground on Service up to 150 amps and #4 on 200 amps. (**Ground wire must be bonded to the Meter enclosure**)
8. 5/8" x 8' Ground Rod w/acorn clamp. (Acorn clamp must be exposed 2"-3")
9. Wire and Conduit should be sized according to Service loop. (See chart on back)

The guidelines on ground clearances for service conductors as described on the reverse side **MUST BE FOLLOWED**.

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

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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 copper ground wire up to a 175 amp service and minimum #4 copper ground wire for a 200 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. 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.

CONSTRUCTION of a 3 WIRE METER LOOP:

Meter Loop must be assembled by the member or by an electrician. The Co-op shall determine the acceptability of the meter loop before the connection is made.

Meter Loop shall be made of rigid galvanized conduit, or rigid aluminum conduit. EMT and PVC are NOT acceptable. A minimum size of #6 stranded copper is required.

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.**

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 PVC, galvanized pipe 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"
#1/0 cu	150 amp service	1-1/2"
#2/0 cu	200 amp service	2"
#3/0 cu	225 amp service	3"
#350	320 amp service	4"

Ground Clearance

NOTE: For 120/240-volt service drop installations, minimum clearances must be maintained according to SPEC regulations:

- 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
- 22.5' of clearance should be maintained over swimming pools
- 3.5' of clearance should be maintained over building roofs (no pedestrians)
- 11' of clearance should be maintained over building roofs (with pedestrians)

The measurement for clearance is determined at the lowest point in the service wire. The clearances from the ground to the service wire will decrease as the distance between the meter pole and the service pole, or transformer pole, increases.