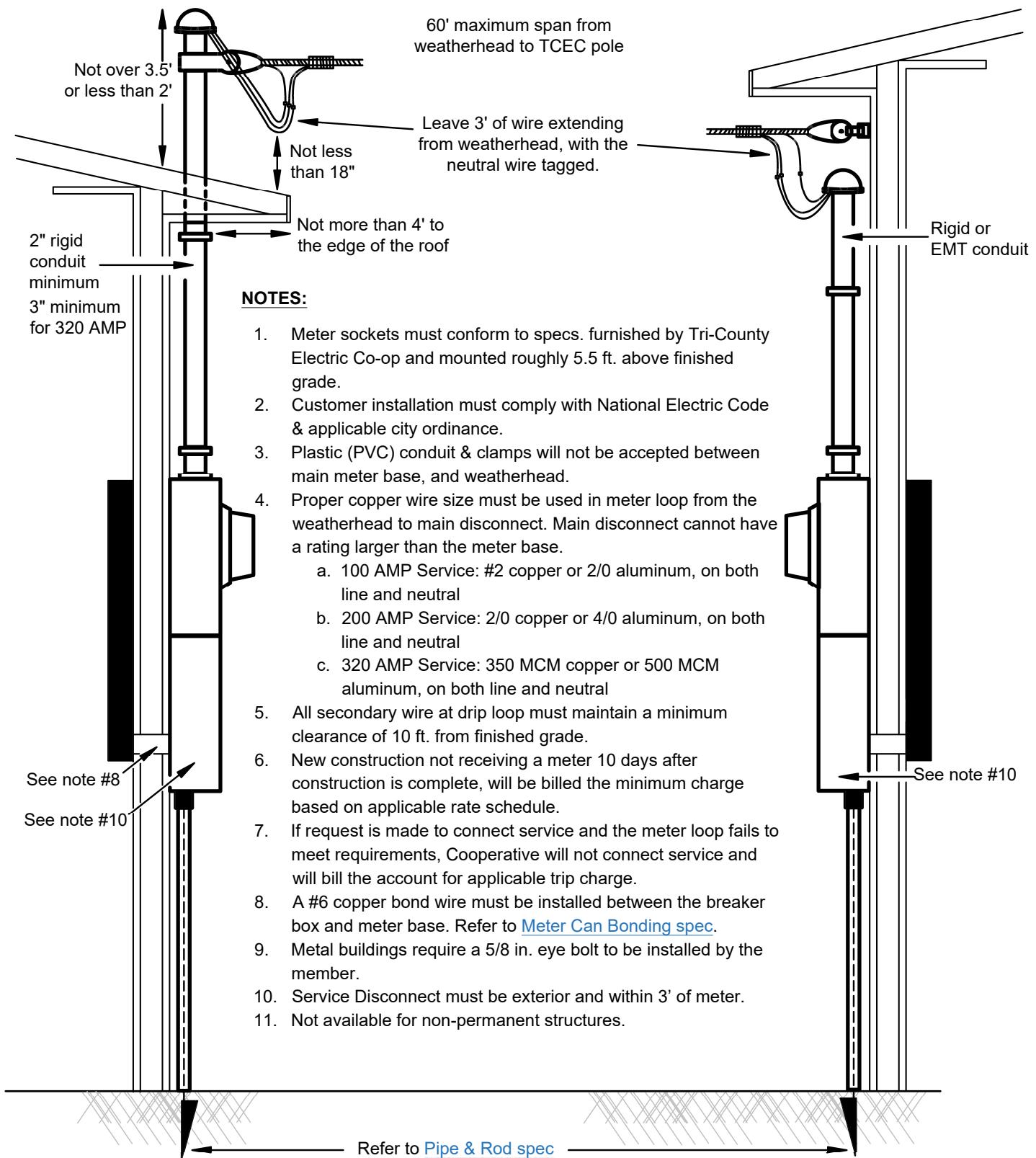




# OVERHEAD SERVICE ENTRANCE

## Structures Only

Phone: 817.444.3201 ★ [tcectexas.com](http://tcectexas.com)



# METER LOOP ON TCEC INSTALLED METER POLE



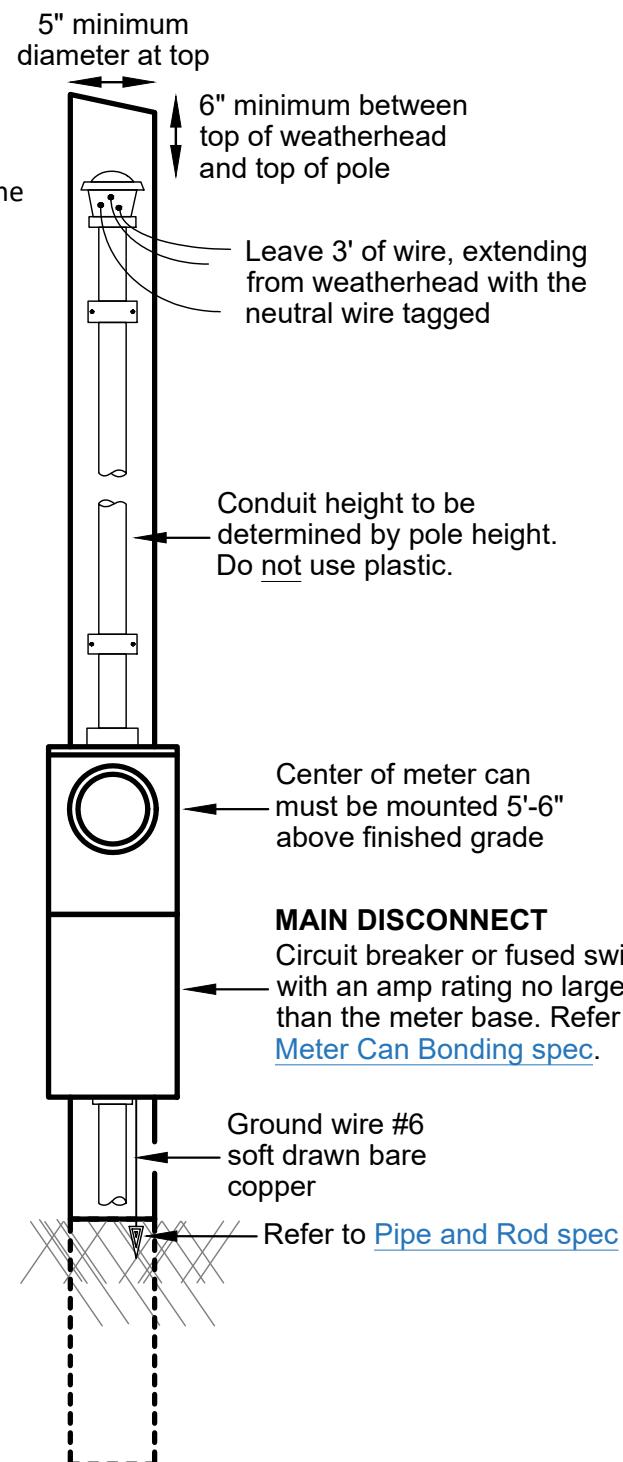
Be sure all items shown below are on the meter pole **before** contacting the office for connection of electric service:

- Correct meter base
- Conduit extended to height of 3' below top of pole: Refer to table below
  - 100-AMP service: 1  $\frac{1}{4}$ " EMT conduit
  - 200-AMP service: 2" EMT conduit
- Weatherhead
- Correct copper wire size must be used between the weatherhead and the line side of the meter base and from the load side of the meter base to the meter disconnect:
  - 100-AMP service: #2 copper or 2/0 aluminum on both line and neutral
  - 200-AMP service: 2/0 copper or 4/0 aluminum on both line and neutral
- Main disconnect no larger than rating on meter base
- Ground wire clamped to ground rod. Refer to [Pipe & Rod](#) and [Meter Can Bonding](#) specs.
- Neutral wire marked
- Meter loop must be faced in a direction that will allow easy access

Pole Height	Conduit Length
30'	15'
35'	20'

## NOTES:

1. New construction not receiving a meter 10 days after construction is complete will be billed the minimum charge based on the applicable rate schedule. Service attachment provided and installed by Tri-County Electric Co-op.
2. If a request is made to connect service and the meter loop fails to meet above requirements, Tri-County Electric Cooperative will bill the account an applicable trip charge.
3. Meter sockets must conform to specifications furnished by Tri-County Electric Cooperative.
4. Member installation must comply with National Electric Code and applicable city ordinance.
5. Plastic (PVC) conduit and clamps will not be accepted for use between the meter base and weatherhead.
6. Proper copper wire size must be used in the meter loop from the weatherhead through to the main disconnect.
7. A #6 copper bond wire must be installed between the breaker box and meter base.
8. Service disconnect must be exterior and within 3' of meter. Refer to [Meter Can Bonding spec](#).



# MEMBER INSTALLED METER POLE

Be sure all items shown below are on the meter pole **before** contacting the office for connection of electric service:

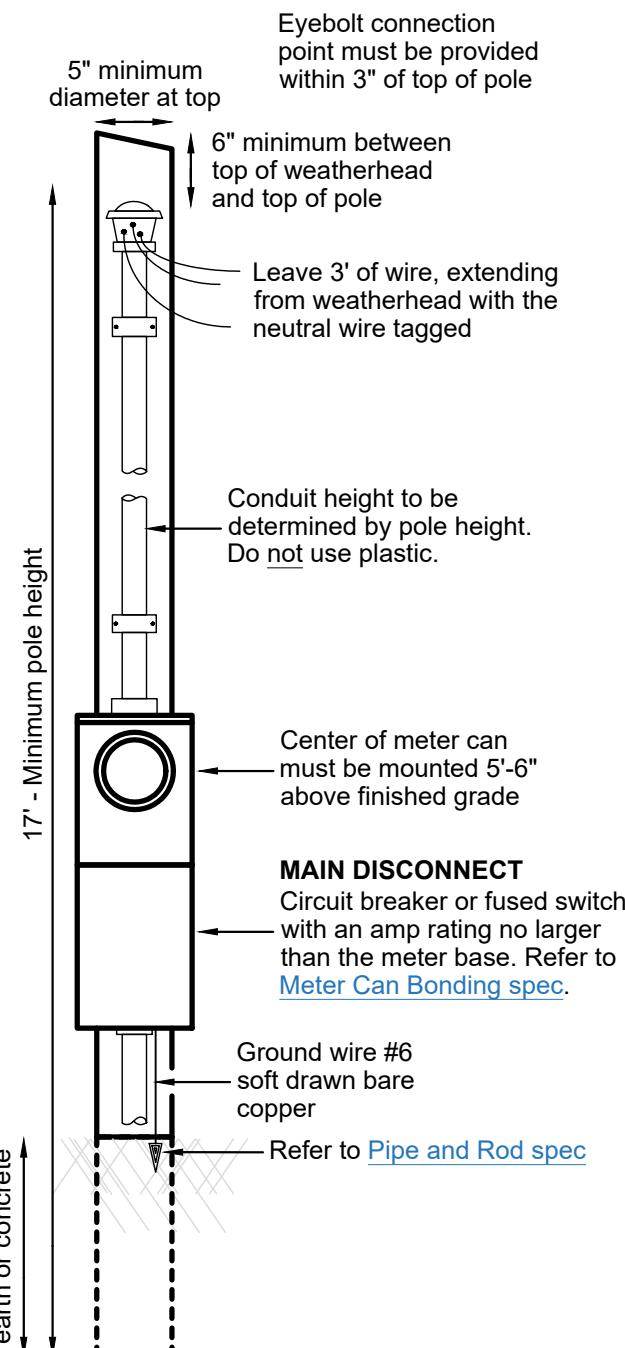
- Correct meter base
- Conduit extended to height of 6'-5" above top of meter base
  - 100-AMP service: 1  $\frac{1}{4}$ " EMT conduit
  - 200-AMP service: 2" EMT conduit
  - 320-AMP service: 3" EMT conduit
- Weatherhead
- Correct copper wire size must be used between the weatherhead and the line side of the meter base and from the load side of the meter base to the meter disconnect:
  - 100-AMP service: #2 copper or 2/0 aluminum on both line and neutral
  - 200-AMP service: 2/0 copper or 4/0 aluminum on both line and neutral
  - 320-AMP service: (Requires adjoining meter rack) 350 MCM copper or 500 MCM aluminum on both line and neutral
- Main disconnect no larger than rating on meter base
- Ground wire clamped to ground rod
- Neutral wire marked
- Meter loop must be faced in a direction that will allow easy access

## NOTES:

1. Service drop provided and installed by Tri-County Electric Co-op. Maximum allowable distance from TCEC source pole is 50'.
2. Service attachment provided and installed by Tri-County Electric Co-op.
3. Meter sockets must conform to specifications furnished by Tri-County Electric Co-op
4. Service entrance conductor's and service raceway provided and installed by member. Conductors extend 36" minimum outside of weatherhead. Neutral wire must be properly identified.
5. Members provide and install conduit straps and meter socket. Drop loop minimum clearance is 10' from finished grade.
6. Pole must be Creosote pole or equal with a minimum diameter of 5" at top of pole and a minimum height of 17'. Square metal tubing may be used alternatively.
7. TCEC trucks and personnel must have access to pole.
8. Pole to be set a minimum depth of 4' with tamped earth or concrete as backfill.
9. Member installation must comply with National Electric Code and applicable city ordinance.
10. Plastic (PVC) conduit and clamps will not be accepted for use between the main disconnect, meter base, and weatherhead.
11. If a request is made to connect service and the member meter pole fails to meet required specifications, Tri-County Electric Co-op will not connect service and the member will be billed additional trip charge to connect service once corrections have been made.
12. A #6 copper bond wire must be installed between the breaker box and meter base.
13. Service disconnect must be exterior and within 3' of meter. Refer to [Meter Can Bonding spec](#)



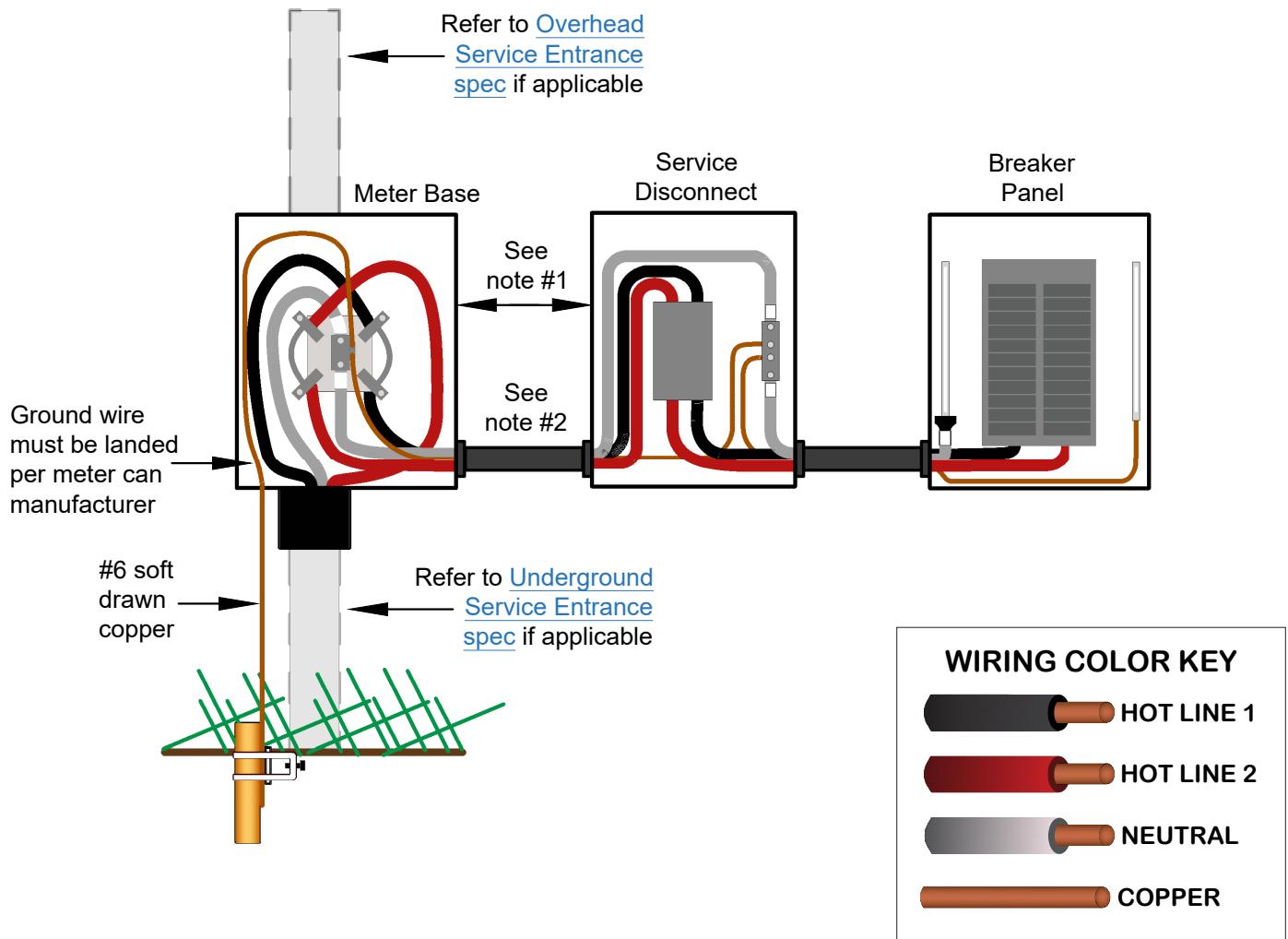
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# METER CAN BONDING

Phone: 817.444.3201 ★ [tcectexas.com](http://tcectexas.com)



## NOTES:

1. Service disconnect must be outside and within 3' of meter.
2. Conduit between the meter and service disconnect must be rigid metal conduit or EMT.
3. Refer to the [Installation Requirements: Rod + Pipe Electrodes spec](#) for ground rod installation guidelines.
4. Pull out fuses are not acceptable as a service disconnect.

# Rod and Pipe Electrodes

## Installation Requirements



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The electrode (rod) shall be installed such that at least 8 feet of length is in contact with the soil. It shall be driven to a depth of not less than 8 feet except, where rock bottom is encountered, the electrode shall be driven at an angle not to exceed 45 degrees. The electrode shall be permitted to be buried in a trench that is at least 24 inches deep (only if it cannot be installed vertically or at a 45° angle). The upper end of the electrode shall be flush with ground level and visible to TCEC.

