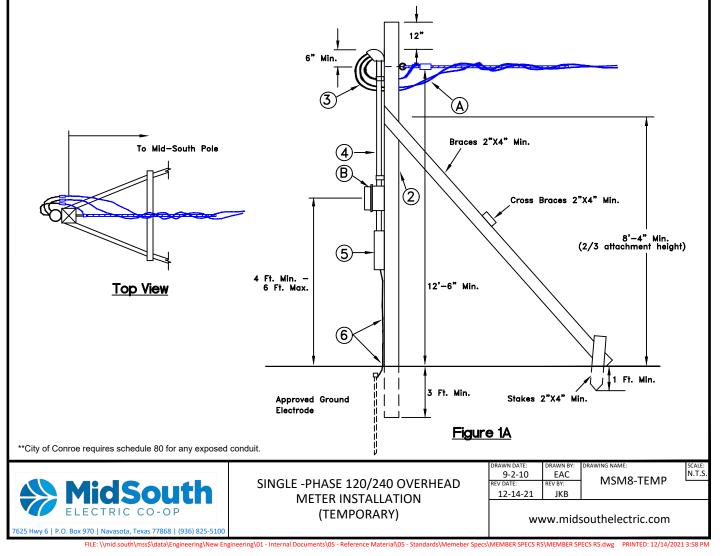
# **RESIDENTIAL MEMBER SPECIFICATIONS**

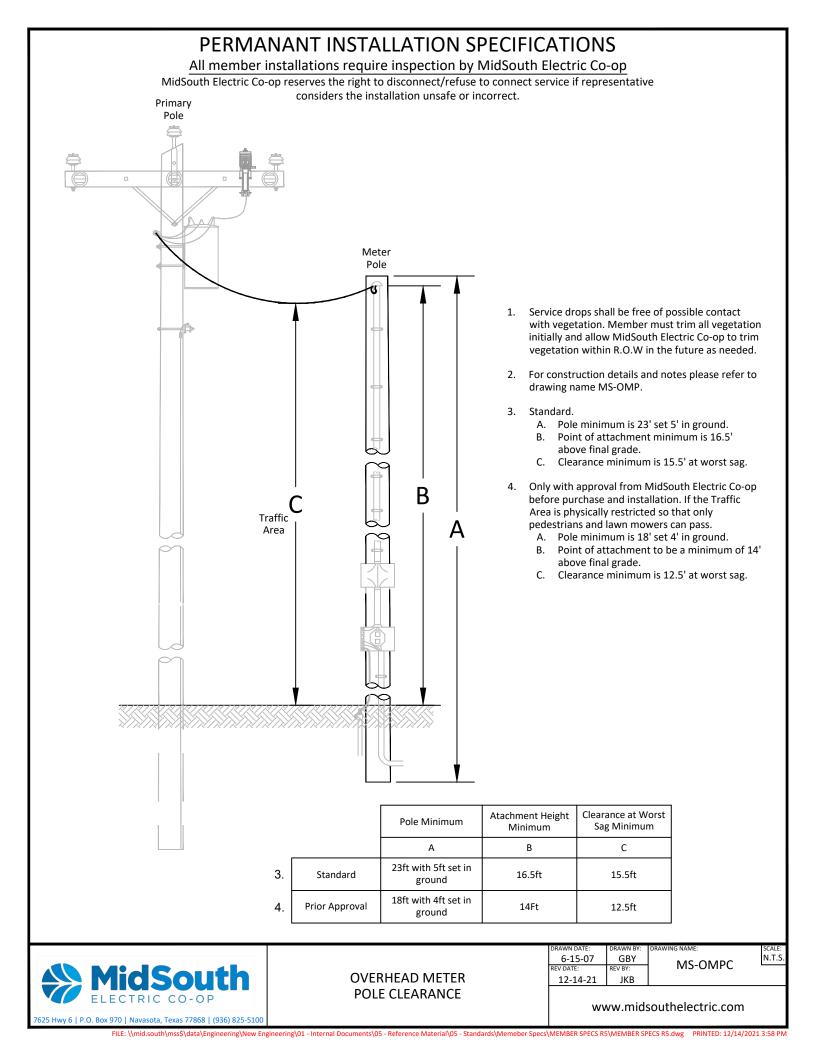
#### All member installations require inspection by MidSouth Electric Co-op

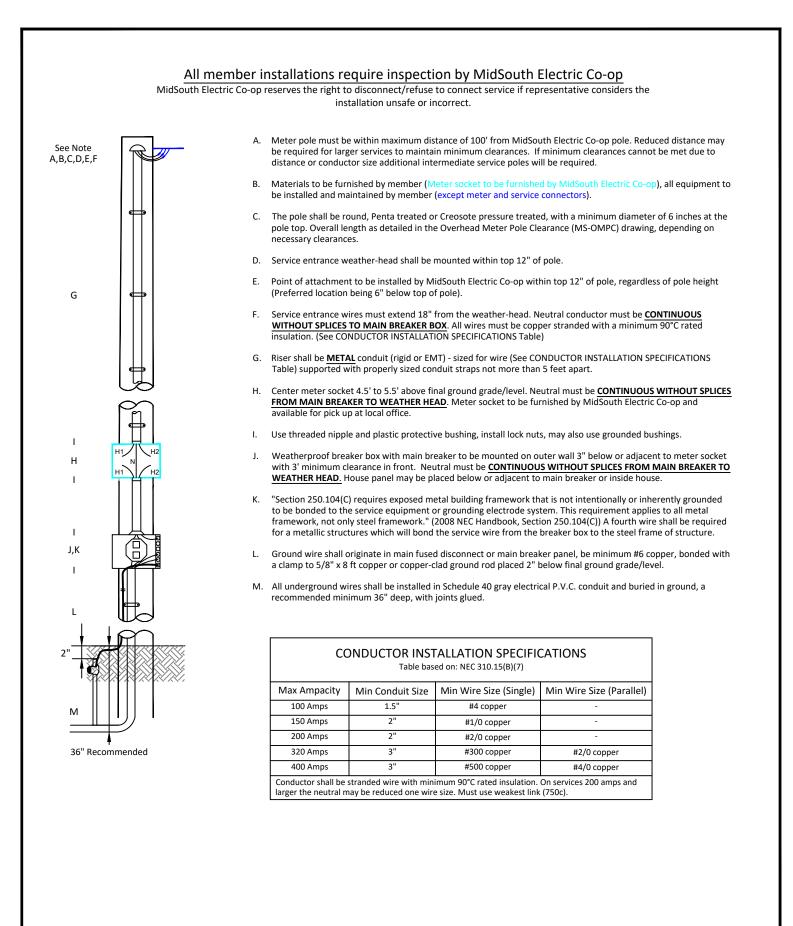
MidSouth Electric Co-op reserves the right to disconnect/refuse to connect service if representative considers the installation unsafe or incorrect

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- 1. All materials to be provided and installed by the Member except:
- 1.A. Service drop (conductors, service grips, and service connectors) owned and installed by MidSouth Electric Co-op.
- 1.B. Meter Socket provided by MSEC and must be installed by Member.
- 2. Temporary meter pole provided and installed by Member. Pole must provide sufficient height for the service drop to meet minimum clearances per NESC code. Pole to be treated and a minimum of 4" x 4"x 16 ft. unspliced or 5" minimum diameter creosote pole. Temporary meter pole must be within maximum distance of 60' from MidSouth Electric Co-op pole. Reduced distance may be required for larger services to maintain minimum clearances. If minimum clearances cannot be met due to distance or conductor size, intermediate service poles will be required. Temporary meter poles may be reused as long as the material is identifiable and serviceable. MidSouth Electric Co-op has the final say on if a temporary meter pole is reusable.
- 3. Service entrance conductors provided and installed by Member. Conductors to be sized according to breaker size, with a minimum of #6 Copper to be permitted. Conductors to extend outside weather head a minimum length of 18" for connection to service drop as required by local ordinance. Conductors to be insulated and neutral conductors to be continuous through the Meter Socket to the main disconnect. All wires must be COPPER STRANDED with a minimum 90°C rated insulation.
- 4. Weather head and conduit provided and installed by the Member to protect service entrance conductors. Weather head must be within 12" below the top of the pole. Conduit must be attached to the meter pole with two conduit straps minimum. Conduit materials must meet local, state, and federal codes at time of connection.\*\*
- 5. Main fused disconnect or main breaker panel to be provided and installed by Member. Must be in outdoor/weather proof rated enclosure. If the main panel includes 6 or more circuits, a main disconnect must be installed.
- 6. Ground wire shall originate in main fused disconnect or main breaker panel, be minimum #6 copper, bonded with a clamp to 5/8" x 8 ft copper or copper-clad ground rod placed 2" below final ground grade/level.
- 7. Member shall not allow pole to be moved or tampered with as long as the MidSouth Electric Co-op's service wires are attached.







MidSouth

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OVERHEAD METER POLE DETAIL

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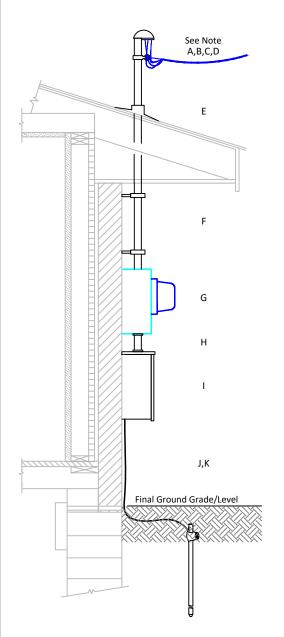
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SCALE

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- A. Meter loop is recommended to be within 100 feet of MidSouth Electric Co-op's pole to which the service is to be connected.
- B. Materials to be furnished by member (meter socket to be furnished by MidSouth Electric Co-op), all equipment to be installed and maintained by member (except meter and service connectors).
- C. Service entrance wires must extend 18 inches from the weather head. Neutral conductor must be <u>CONTINUOUS WITHOUT SPLICES TO MAIN BREAKER BOX</u>. All wires must be copper stranded with a minimum 90°C rated insulation. (See CONDUCTOR INSTALLATION SPECIFICATIONS Table)
- D. Point of Attachment to be installed by Member at a height, to maintain 18" clearance between roof and MidSouth Electric Co-op service wire (If MidSouth Electric Co-op service lead crosses more than 4 linear feet of roof, clearance must be increased to 36") recommended 17' and no less than 14' above final ground grade/level, 6" below the weather head and facing MidSouth Electric Co-op service lead.
- E. Flashing: metal is preferred (plastic may be substituted on metal roofs). Special roof problems shall be coordinated with MidSouth Electric Co-op. As long as clearances are met, it is not necessary to pierce the roof (See OVERHEAD METER POLE DETAIL [MS-OMP])
- F. Riser shall be **RIGID METAL** conduit (sized for wire (See CONDUCTOR INSTALLATION SPECIFICATIONS Table)). Supported with at least 2 properly sized conduit straps not more than 5' apart.
- G. Center meter socket can be 4.5' to 5.5' above final ground grade/level. Neutral must be <u>CONTINUOUS WITHOUT SPLICES FROM MAIN BREAKER TO WEATHER HEAD</u>. Meter socket to be furnished by MidSouth Electric Co-op and available for pick up at local office.
- H. Use threaded nipple and plastic protective bushing, installing lock nuts may also use grounded bushings.
- Weatherproof main disconnect shall be located below or adjacent to meter socket, with minimum 3' unobstructed clearance in front. House panel may be located below or adjacent to main disconnect or inside building.
- J. "Section 250.104(C) requires exposed metal building framework that is not intentionally or inherently grounded to be bonded to the service equipment or grounding electrode system. This requirement applies to all metal framework, not only steel framework." (2008 NEC Handbook, Section 250.104(C))
- K. Ground wire shall be minimum #6 copper bonded, with a clamp, to 5/8" x 8' copper or copper-clad ground rod placed 2" below final ground grade/level.

		TALLATION SPECIFICATI d on: NEC 310.15(B)(7)	
Max Ampacity	Min Conduit Size	Min Wire Size (Single)	Min Wire Size (Parallel
100 Amps	2"	#4 copper	-
150 Amps	2"	#1/0 copper	-
200 Amps	2"	#2/0 copper	-
320 Amps	3"	#250 copper	#2/0 copper
400 Amps	3"	#500 copper	#2/0 copper



OVERHEAD METER ATTACHED TO HOUSE

RAWN DATE: 10-22-03	DRAWN BY: EAC	DRAWING NAME: MS-OMH	SCALE: N.T.S.
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## PRIMARY CONSTRUCTION NOTES

- 1. Before construction starts, Member shall meet with a MidSouth Electric Co-op Representative.
- 2. Contractor/Member must call to locate all utilities (811) prior to commencement of construction.
- 3. Primary facilities that are to be installed by Member will be to MidSouth Electric Co-op specifications and requires inspection by a MidSouth Electric Co-op Representative.
- 4. All underground conduit and exposed conduit for primary runs shall be gray/UV resistant schedule 40 P.V.C. conduit or better, unless otherwise noted.\*\*
- 5. Primary conduit is to be installed in a trench 5ft minimum depth to top of conduit at time of inspection.
- 6. Primary conduit shall have at least 2ft of dirt cover (containing no rocks larger than the conduit) prior to placing a 6" wide RED "CAUTION" TAPE, by tying the tape around the conduit in the trench and stretching one <u>CONTINUOUS</u> run of tape and tying the tape to the conduit at the other end of the trench. RED "CAUTION" TAPE available at local offices.
- 7. Pull string through all conduit runs. Caps shall be placed at both ends of conduit with pull string hanging out.
- 8. Final backfilling can then be placed. All sections of trenches shall have at least 2ft and at most a 4ft section at each end and at midpoint of trench exposed for inspection.
- 9. Member shall install transformer sleeve(pad) to Cooperative specifications (See MSUM1-5C for details)
- Soil around all pad-mount transformers, junction boxes and pull boxes to be mechanically compacted to 95% standard density within a ten foot radius of concrete/fiberglass pad.

## SECONDARY CONSTRUCTION NOTES (Transformer to Meter)

- 1. Before construction starts, Member shall meet with a MidSouth Electric Co-op Representative.
- 2. Contractor/Member must call to locate all utilities (811) prior to commencement of construction.
- 3. Secondary facilities that are to be installed by Member will be to MidSouth Electric Co-op specifications and requires inspection by a MidSouth Electric Co-op Representative.
- 4. All underground conduit and exposed conduit for secondary runs shall be gray/UV resistant schedule 40 P.V.C. conduit or better, unless otherwise noted.\*\*
- 5. Secondary conduit is to be installed in a trench 3ft minimum depth to top of conduit at time of inspection.
- 6. Secondary conduit shall have at least 1ft of dirt cover (containing no rocks larger than the conduit) prior to placing a 6" wide RED "CAUTION" TAPE, by tying the tape around the conduit in the trench and stretching one <u>CONTINUOUS</u> run of tape and tying the tape to the conduit at the other end of the trench. RED "CAUTION" TAPE available at local offices.
- 7. Pull string through all conduit runs. Caps shall be placed at both ends of conduit with pull string hanging out.
- 8. Final backfilling can then be placed. All sections of trenches shall have at least 2ft and at most a 4ft section at each end and at midpoint of trench exposed for inspection.
- 9. Meter socket on the outside of the house shall be between 4.5ft and 5.5ft from center of socket to final ground grade.
- 10. All underground meter sockets shall be obtained from MidSouth Electric Co-op. Facing the meter socket, the Member shall install the conduit connecting to the main disconnect in the right-hand side knockouts, and the conduit from the transformer into the left-hand side knockout.
- 11. Weatherproof main disconnect shall be located outside below or adjacent to meter socket, with minimum 3ft unobstructed clearance in front. House panel may be located below or adjacent to main disconnect or inside building. Weatherproof main disconnect shall be within 3ft of meter socket.
- 12. Members ground wire shall be minimum #6 copper. All other conductors must be sized according to main breaker size (CONDUCTOR INSTALLATION SPECIFICATIONS Table).
- 13. "Section 250.104(C) requires exposed metal building framework that is not intentionally or inherently grounded to be bonded to the service equipment or grounding electrode system. This requirement applies to all metal framework, not only steel framework." (2008 NEC Handbook, Section 250.104(C))

\*\*City of Conroe requires schedule 80 for any exposed conduit.

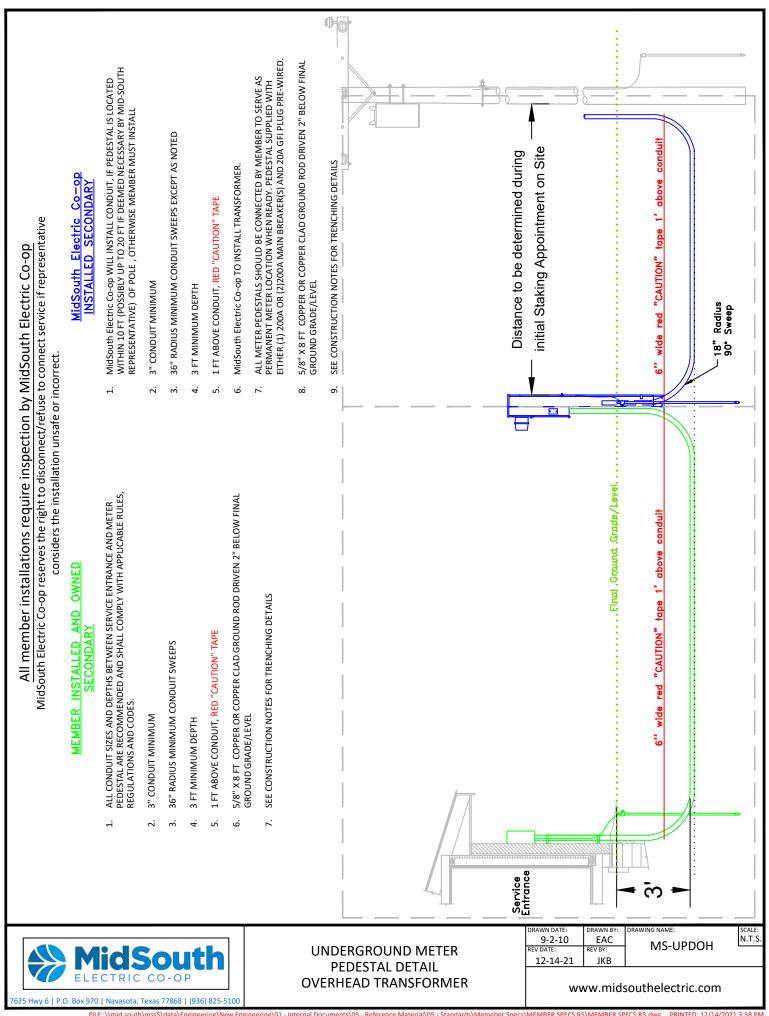


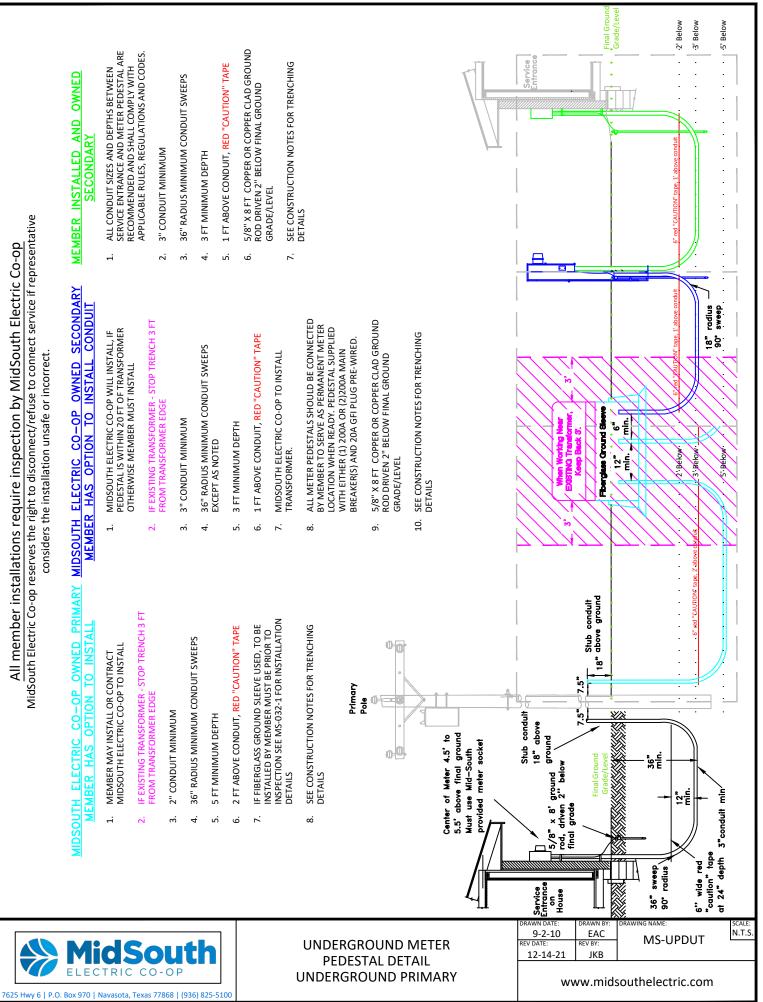
UNDERGROUND METER PRIMARY AND SECONDARY CONSTRUCTION NOTES

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OPTION ass through poper throu	All member installations require inspection by MidSouth Electric Co-op   MidSouth Electric Co-op reserves the right to disconnect/refuse to connect service if representative considers the installation unsafe or incorrect.   Installation unsafe or inco	OPTION 2 OPTION 3   Meter on left hand side of main disconnect. Structure consist of standard disconnect. The structure constant of standard disconnect. Structure consist of standard disconnect. Structure consist of standard disconnect. Structure consist of standard disconnect. The structure constant of standard disconnect.	G Red Countor Tape
	All member ir   MidSouth Electric Co-o   1. MEMBERS MUST USE   AT ALLLOCAL OFFICES   2. Member's service wire wire in meter socket.   3. All conduit elbows mu   4. Conduit must be Sche a. For Meter to 1   b. For Meter to 1	<b>OPTION 1</b> Meter Socket on one side of 6"x6" timber and Main Disconnect on opposite side. May drill hole through post for nipple to pass through.	6"Red "CUTION" Tape





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48"

#### Notes:

- 1. Excavate the hole to the 10" ground sleeve burial depth.
- 2. Compact the soil.
- 3. Place the ground sleeve into the hole.

