TEMPORARY METER POLE INSTALLATION
MEMBER PROVIDED

Location to be made by REMC within 50' of our transformer or existing service
Temporary pole to be properly braced

3 wire weatherhead
(located 24" from top of pole)

3 ea. #2 copper conductors in pipe
OR
#2 service entrance cable

1 ea. weatherproof connector

1-1/4" hub meter base
Furnished by member

60A weatherproof switch box
with 20A GFCI breaker

12/2 NM cable
NM box with receptacle and weatherproof cover

#4 solid copper ground wire from base to breaker box to ground rod

One-piece ground rod clamp
1 ea. 5/8" x 8' ground rod
OR
1 ea. 1/2" x 10' ground rod

Must have rigid metal conduit or #4 solid copper ground wire in SCH 80 PVC tying meter base to disconnect

Revised May 2017
TEMPORARY METER POLE URD INSTALLATION
MEMBER PROVIDED

Location to be made by REMC within 5' of our transformer or existing service
Temporary pole to be properly braced

1 weatherproof connector

1-1/4" hub meter base
Furnished by member

60A weatherproof switch box with 20A GFCI breaker

12/2 NM cable
NM box with receptacle and weatherproof cover

#4 solid copper ground wire from base to breaker box to ground rod

One-piece ground rod clamp

5/8" x 8' ground rod
OR
1/2" x 10' ground rod

Must have rigid metal conduit or #4 solid copper ground wire in SCH 80 PVC tying meter base to disconnect

Wire from pedestal or transformer (provided by REMC or electrician)
RESIDENTIAL 100-200A CONDUIT RISER SERVICE
Location of metering to be approved by REMC

Minimum over driveway: 12'6"
Minimum elsewhere: 10'6"
Minimum leads: 36" (Mark neutral)

Roof Clearances
Mast head <= 48" from roof edge:
Within 6' radius of service mast: 18"
Outside 6' radius of service mast: 36"
Mast head > 48" from roof edge: 36"

200 Amp Service
2" conduit (galvanized steel)
3 - 3/0 RHW/THW/THHW/THWN copper
1 - meter base (2" hub)
2" insulated bushings and lock nuts
200A main service entrance panel

100 Amp Service
2" conduit (galvanized steel)
3 - #2 RHW/THW/THHW/THWN copper
1 - meter base (2" hub)
2" insulated bushings and lock nuts
100A main service entrance panel

Grounding
#4 solid copper ground wire from base to breaker box to ground rod
1 ea. 5/8" x 8' ground rod
OR
1 ea. 1/2" x 10' ground rod
One-piece ground rod clamp
Must have steel conduit or #4 solid tying meter base to disconnect

Must have rigid metal conduit or #4 solid copper ground wire in SCH 80 PVC tying meter base to disconnect

 alternate ground (not used with steel conduit)

Basement location optional
200A service entrance panel (with main fuse or breaker) on 1st floor or basement within 10' after entering building Must be in conduit or SE cable
RESIDENTIAL 200A UNDERGROUND SERVICE
Location of metering to be approved by REMC
All underground requires >= 200A service

200 Amp Service

2" conduit (galvanized steel)

3 - 3/0 RHW/THW/THHW/THWN copper

1 - meter base (2" hub)

2" insulated bushings and lock nuts

200A main service entrance panel

Grounding

#4 solid copper ground wire from base to breaker box to ground rod

1 ea. 5/8" x 8' ground rod OR
1 ea. 1/2" x 10' ground rod

One-piece ground rod clamp

Must have rigid metal conduit or #4 solid copper ground wire in SCH 80 PVC tying meter base to disconnect

Wire from transformer Provided by REMC 30 - 36" burial depth

Carroll White REMC Delphi Monticello (765) 564-2057 (574) 583-7161 (800) 844-7161
www.cwremc.coop Revised May 2017
Service drop furnished by REMC

Minimum leads:
36" (mark neutral)

1 1/4" or 2" meter base
Furnished by member

Must have weatherproof fused disconnect switch below meter base

#4 solid copper ground wire from base to breaker box to ground rod
Securely fastened to pole

One-piece ground rod clamp

1 ea. 5/8" x 8' ground rod
OR
1 ea. 1/2" x 10' ground rod
18" from pole

100 Amp Service
1 - 1 1/4" weatherhead
17' - 1 1/4" conduit
67' - #2 RHW/THW/THHW/THWN copper
6 - 1 1/4" conduit straps
1 - 100A meter base (1 1/4" hub)
1 - 100A weatherproof disconnect breaker
1 - 1 1/4" conduit nipple with locknuts and insulated bushings

200 Amp Service
1 - 2" weatherhead
17' - 2" conduit
67' - 3/0 RHW/THW/THHW/THWN copper
6 - 2" conduit straps
1 - 200A meter base (2" hub)
1 - 200A weatherproof disconnect breaker
1 - 2 conduit nipple with locknuts and insulated bushings

Treated lumber or treated 1/2" plywood

Galvanized steel or SCH 80 PVC required below meter base
Furnished by member

30" burial depth

Ground rod can be below ground level if desired
Leave open for inspection

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Revised May 2017
Service drop furnished by REMC

18" minimum leads: 36" (mark neutral)

1 1/4" or 2" meter base furnished by member
Must have weatherproof fused disconnect switch below meter base
#4 solid copper ground wire from base to breaker box to ground rod
Securely fastened to pole

One-piece ground rod clamp
1 ea. 5/8" x 8' ground rod
OR
1 ea. 1/2" x 10' ground rod (18" from pole)

METER POLE FOR OVERHEAD SERVICE

100 Amp Service
1 - 1 1/4" weatherhead
17' - 1 1/4" conduit
67' - #2 RHW/THW/THHW/THWN copper
6 - 1 1/4" conduit straps
1 - 100A meter base (1 1/4" hub)
1 - 100A weatherproof disconnect breaker
1 - 1 1/4" conduit nipple with locknuts and insulated bushings

200 Amp Service
1 - 2" weatherhead
17' - 2" conduit
67' - 3/0 RHW/THW/THHW/THWN copper
6 - 2" conduit straps
1 - 200A meter base (2" hub)
1 - 200A weatherproof disconnect breaker
1 - 2 conduit nipple with locknuts and insulated bushings

Treated lumber or treated 1/2" plywood

Ground rod can be below ground level if desired
Leave open for inspection

Must have rigid metal conduit or #4 solid copper ground wire in SCH 80 PVC tying meter base to disconnect
Service drop furnished by REMC

Minimum leads:
36" (mark neutral)

Underground wire to mobile home must be 4-wire, insulated conductor

Treated lumber or treated 1/2" plywood

Galvanized steel required below meter base

30" burial depth

Ground rod can be below ground level if desired
Leave open for inspection

100 Amp Service

1 - 1 1/4" weatherhead
17' - 1 1/4" conduit
67' - #2 RHW/THW/THHW/THWN copper
6 - 1 1/4" conduit straps
1 - 100A meter base (1 1/4" hub)
1 - 100A weatherproof disconnect breaker
1 - 1 1/4" conduit nipple with locknuts and insulated bushings

200 Amp Service

1 - 2" weatherhead
17' - 2" conduit
67' - 3/0 RHW/THW/THHW/THWN copper
6 - 2" conduit straps
1 - 200A meter base (2" hub)
1 - 200A weatherproof disconnect breaker
1 - 2 conduit nipple with locknuts and insulated bushings

1 1/4" or 2" meter base
Furnished by member

Must have weatherproof fused disconnect switch below meter base

#4 solid copper ground wire from base to breaker box to ground rod
Securely fastened to pole

One-piece ground rod clamp

1 ea. 5/8" x 8' ground rod
OR
1 ea. 1/2" x 10' ground rod
18" from pole

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Revised May 2017
200A UNDERGROUND SERVICE PANEL BOARD

Location of metering to be approved by REMC
All underground requires >= 200A service

- Must have rigid metal conduit or #4 solid copper ground wire in SCH 80 PVC tying meter base to disconnect
- 2" conduit (galvanized steel)
- 3 - 3/0 RHW/THW/THHW/THWN copper
- 1 - meter base (2" hub)
- 2" insulated bushings and lock nuts
- 200A main service entrance panel

- Galvanized steel or SCH 80 PVC required below meter base
  Furnished by member

- One-piece ground rod clamp
- #4 solid copper ground wire from base to breaker box to ground rod
- 1 ea. 5/8" x 8' ground rod
  OR
- 1 ea. 1/2" x 10' ground rod

2 x 6" Tongue & Groove
Penta-treated lumber
4 x 4" Penta-treated posts

Wire from transformer
Provided by REMC
30 - 36" burial depth
400A UNDERGROUND SERVICE (320A PANEL BOARD)
Location of metering to be approved by REMC
All underground requires >= 200A service

Center of meter base is 5’ above ground level

Member provides bolt-on lugs for meter base:
350 MCM - 2
4/0 - 1

2” x 6” Tongue & Groove
Penta-treated lumber
4” x 4” Penta-treated posts

Galvanized steel or SCH 80 PVC required below meter base
Furnished by member

2 1/2” conduit (galvanized steel)
6 - 3/0 RHW, THW, THHW, THWN copper
1 - 320A meter base
2” insulated bushings and lock nuts
2 - 200A main service entrance panels

Must have rigid metal conduit
or #4 solid copper ground wire in SCH 80 PVC tying meter base to disconnect

Must be 4-wire, properly sized, insulated conductors from fused disconnect to load

1 ea. 5/8” x 8’ ground rod
OR
1 ea. 1/2” x 10’ ground rod

Wire from transformer
Provided by REMC
30 - 36” burial depth

One-piece ground rod clamp

#4 solid copper ground wire from base to breaker box to ground rod

2” x 6” Tongue & Groove
Penta-treated lumber
4” x 4” Penta-treated posts

Furnished by member
600A CT UNDERGROUND SERVICE

Location of metering to be approved by REMC
All underground requires >= 200A service

Center of fused disconnect is 5' above ground level

MEMBER'S 200A FUSED DISCONNECT PANEL
MEMBER'S 200A FUSED DISCONNECT PANEL
MEMBER'S 200A FUSED DISCONNECT PANEL

2" x 6" Tongue & Groove
Penta-treated lumber
4" x 4" Penta-treated posts

Galvanized steel or SCH 80 PVC required below meter base
Furnished by member

3 wire to transformer
Burial depth 30 - 36"
Furnished by member

One-piece ground rod clamp

3 - 2" conduit
9 - 3/0 RHW, THW, THHW, THWN copper
2" insulated bushings and lock nuts
3 - 200A main service entrance panels

Must have rigid metal conduit
or #4 solid copper ground wire in SCH 80 PVC tying meter base to disconnect

Must be 4-wire, properly sized, insulated conductors from fused disconnect to load

1 ea. 5/8" x 8' ground rod
1 ea. 1/2" x 10' ground rod
400A TRANSFORMER PANEL WITH PANEL BOARD

- Furnished by REMC
- #4 copper ground wire
- Furnished by REMC
- Guy wire
- Furnished by REMC

24' - 4/0 (N)
24' - 350 MCM (L1)
24' - 350 MCM (L2)
(Lengths extend to transformer lugs)

- 12 - 2" x 6" x 6' Tongue & Groove Penta-treated lumber
- 1 - 4" x 4" x 25' Penta-treated lumber

- Must have rigid metal conduit or #4 solid copper ground wire in SCH 80 PVC tying meter base to disconnect
- Recommend URD burial depth: 30-36"
600A H-FRAME

Furnished by member for transformer pole

24' - 350 MCM (N)
24' - 500 MCM (L1)
24' - 500 MCM (L2)
(Lengths extend to transformer lugs)

12 - 2" x 6" x 12' Tongue & Groove Penta-treated lumber
1 - 4" x 4" x 25' Penta-treated lumber

2" weatherhead

25' pole
Furnished by REMC

30' pole
Furnished by REMC

All panels require fused disconnect or circuit breaker

Recommend
URD burial
depth: 30-36"
#4 copper ground wire
Furnished by REMC

Guy wire
Furnished by REMC

Panel board can not be attached to transformer pole

#4 solid copper ground wire
Furnished by member

All panels require fused disconnect or circuit breaker

Recommend URD
burial depth: 30-36"
Furnished by member
The generation installation must comply with the requirements of the current National Electrical Code (NEC), National Electrical Safety Code (NESC), Underwriters Laboratory (UL) 1741, and any other applicable national, state, and local codes and ordinances.

Location of the disconnect to be approved by REMC.

120/240V:240/480V (AC)
Disconnect required on the outside of structure within 12' of REMC meter base.

120/240V (AC)
Main service panel

Utility kWh meter

Galvanized steel or SCH 80 PVC required below meter base
Furnished by member

One-piece ground rod clamp

1 ea. 5/8" x 8' ground rod
OR
1 ea. 1/2" x 10' ground rod

240 VAC from generation facility

240 VAC to service transformer utility grid

Must have rigid metal conduit or #4 solid copper ground wire in SCH 80 PVC tying meter base to disconnect.