

W.C.E.C.

Consumer Owned Pole Service Entrance Requirements For Temporary or Permanent Use

Treated Pole, 20' Min. Length, set 4' Deep, Guying or Bracing may be required.

Attachment Clevis furnished by Consumer.

Weatherhead, furnished by Consumer located within 2' of the top of the pole.

Meter Loop Tails, 2' Min. furnished by Consumer.

Service Entrance, Electrical Conduit (Schedule 40 PVC or Rigid). Min. Conductor Size to be #6 Copper. A reduced neutral is permissible provided it is NOT smaller than (2) sizes below the Current Carrying Conductors and is NOT Smaller than #6 Copper.

Straps (Min. of 3)

Watertight Connector

Meter Can, furnished and installed by consumer, must be grounded to pole ground.

Note:
WCBC will NOT attach to any pole if the WCBC Personnel considers it to be unsatisfactory for use.

Outdoor Breaker Cans and associated equipment must be furnished and installed by Consumer. All equipment must be bonded to the ground wire with a minimum #6 copper. If more than (6) breakers are present, an Outdoor Main Disconnect is required.

All 120 V plugs shall be weatherproof GFCI protected.

A minimum of #6 copper wire conductor must be used from the metercan to the breaker cans.

Notice - Members may be charged a "Trip Fee" for additional trips due to errors in the member' wiring.

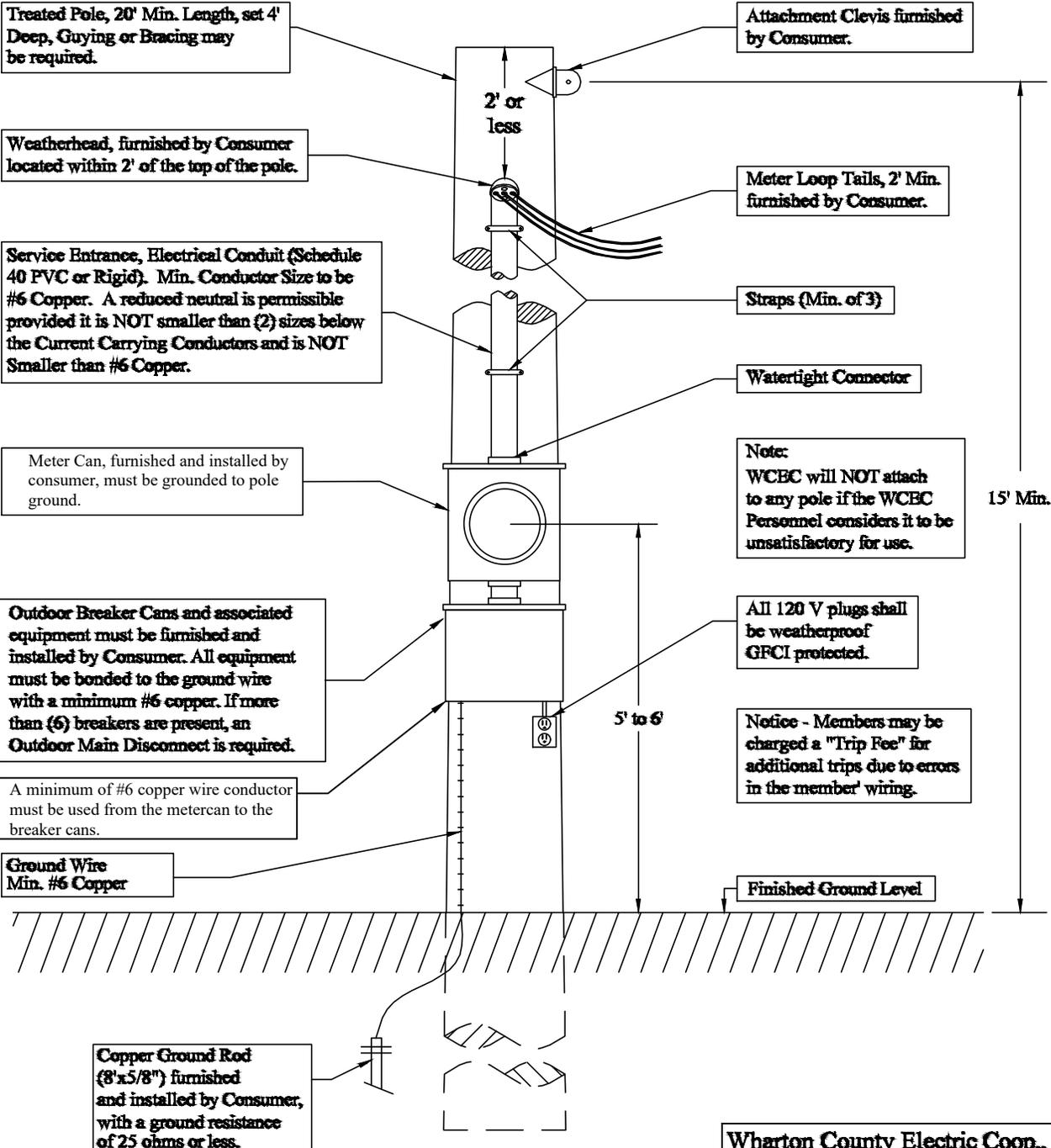
Ground Wire
Min. #6 Copper

Finished Ground Level

Copper Ground Rod (8'x5/8") furnished and installed by Consumer, with a ground resistance of 25 ohms or less.

Note:
Applicable City Wiring Requirements must be utilized where applicable, otherwise follow the requirements on this sheet and those in the National Electric Code.

Wharton County Electric Coop., Inc.
Engineering Department
P.O. Box 31, El Campo, TX 77437
Ph. (979) 543-6271
Rev. by: GP Date: 11/15/2021
Approved by: W.L. E12B/135



W.C.E.C.

Single Phase Building Mounted Service Entrance Requirements

If weatherhead is mast type it can be no more than 4' into the roof line. Point of attachment to clevis, furnished by WCBC or consumer, must be at least 12' above ground level and within 24" of weatherhead.

Weatherhead, furnished by Consumer, Drip Loop at least 10' above ground level and 18" above roof if applicable. Meter loop tails 2' Min. furnished by Consumer.

If mast is through the roof, conduit must be at least 2" rigid.

Service Entrance, Electrical Conduit (Schedule 40 PVC or Rigid). Min. Conductor Size to be #6 Copper. A reduced neutral is permissible provided it is NOT smaller than (2) sizes below the Current Carrying Conductors and is NOT Smaller than #6 Copper.

Conduit Straps furnished by Consumer.

Watertight Connector furnished by Consumer.

Outdoor Breaker Cans and associated equipment must be furnished and installed by Consumer. All equipment must be bonded to the ground wire with a minimum #6 copper. If more than (6) breakers are present, an Outdoor Main Disconnect is required. If an Indoor Breaker Box is utilized, an Outdoor Main Disconnect is required.

Meter Can, furnished and installed by Consumer, must be 5'-6' above ground level

A minimum of #6 copper conductor must be used from the meter can to the breaker cans.

Note:
Residential Applications require all components to have a capacity of at least 100 Amps.

Ground Wire, furnished by Consumer. Minimum size to be #6 Copper inside 1/2" Electrical PVC Pipe.

Finished Ground Level

Copper Ground Rod (8' x 5/8") furnished and installed by Consumer, with a ground resistance of 25 ohms or less.

Notice - Members may be charged a "Trip Fee" for additional trips due to errors in the member's wiring.

Note:
Applicable City Wiring Requirements must be utilized where applicable, otherwise follow the requirements on this sheet and those in the National Electric Code.

Wharton County Electric Coop., Inc.
Engineering Department
P.O. Box 31, El Campo, TX 77437
Ph. (979) 543-6271
Rev. by: GP Date: 11/16/2021
Approved by: W.L. E12E/E125

W.C.E.C.

Single Phase Pole Mounted Service Entrance Requirements

WCBC will provide a Minimum 30' pole; however WCBC may elect to provide a taller pole if additional ground clearance is required.

Weatherhead, furnished by Consumer located within 2' of the top of the pole.

Service Entrance, Electrical Conduit (Schedule 40 PVC or Rigid). Min. Conductor Size to be #6 Copper. A reduced neutral is permissible provided it is NOT smaller than (2) sizes below the Current Carrying Conductors and is NOT Smaller than #6 Copper.

Meter can installed by consumer must be grounded to pole ground

Outdoor Breaker Cans and associated equipment must be furnished and installed by Consumer. All equipment must be bonded to the ground wire with a minimum #6 copper. If more than (6) breakers are present, an Outdoor Main Disconnect is required.

A minimum of #6 copper conductor must be used from the meter can to breaker cans.

Pole Ground furnished by WCBC.

Copper Ground Rod (8'x5/8") furnished and installed by WCBC.

Attachment Clevis furnished by WCBC.

Meter Loop Tails, 2' Min. furnished by Consumer.

Cable or Conduit Straps furnished by Consumer, 3 Minimum.

Watertight Connector furnished by Consumer.

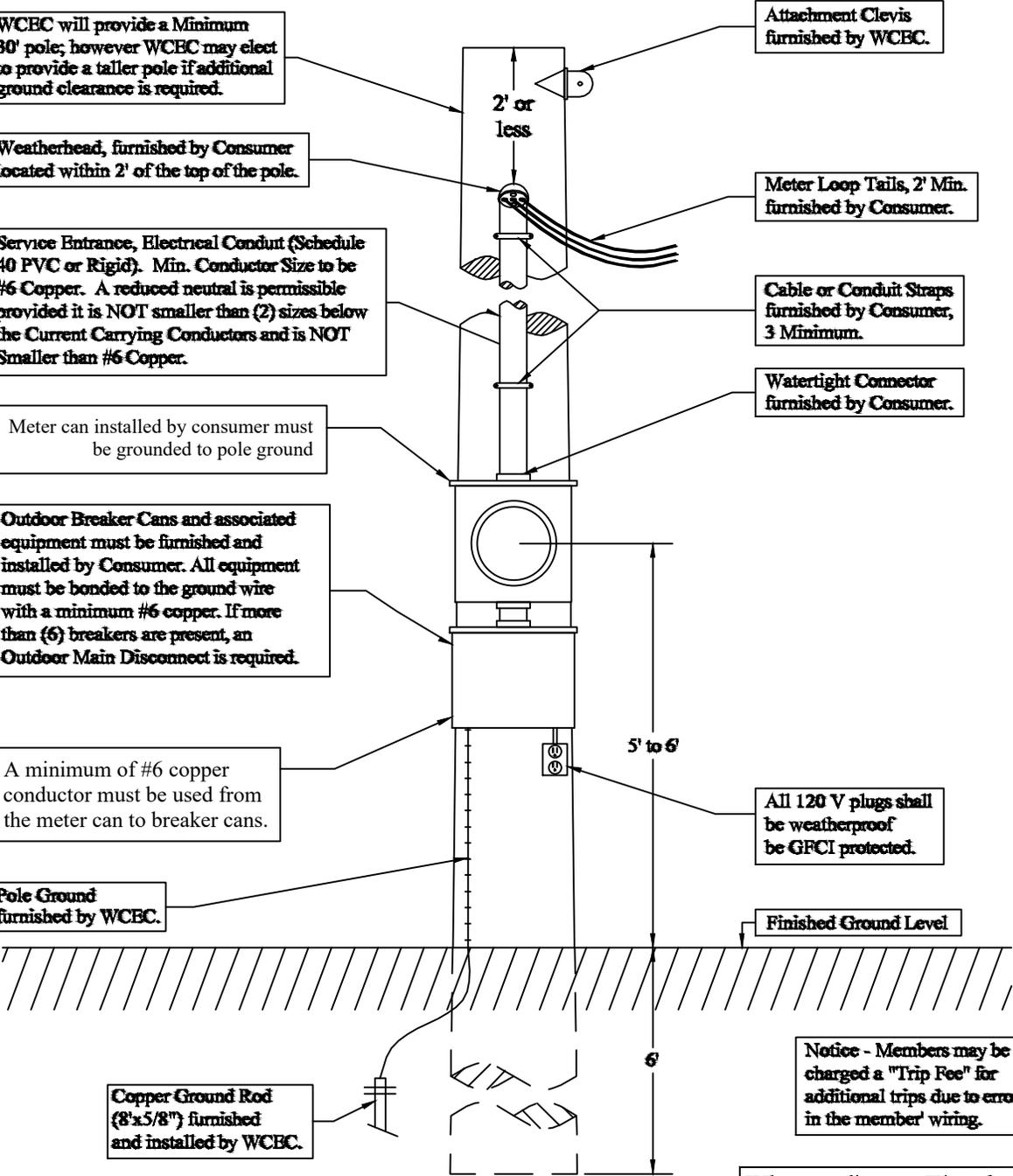
All 120 V plugs shall be weatherproof be GFCI protected.

Finished Ground Level

Notice - Members may be charged a "Trip Fee" for additional trips due to errors in the member' wiring.

Note: Applicable City Wiring Requirements must be utilized where applicable, otherwise follow the requirements on this sheet and those in the National Electrical Code.

Wharton County Electric Coop., Inc.
 Engineering Department
 P.O. Box 31, El Campo, TX 77437
 Ph. (979) 543-6271
 Rev. by: GP Date: 11/15/2021
 Approved by: W.L. E12D/E-124



W.C.E.C.

Three Phase Pole Mounted Service Entrance Requirements

WCBC will provide a Minimum 30' pole; however WCBC may elect to provide a taller pole if additional ground clearance is required.

Weatherhead, furnished by Consumer located within 2' of the top of the pole.

Service Entrance, Electrical Conduit (Schedule 40 PVC or Rigid). Min. Conductor Size to be #6 Copper. A reduced neutral is permissible as per the applicable code.

Meter can installed by consumer must be grounded to pole ground

Outdoor Breakers Can and associated equipment must be furnished and installed by Consumer. All equipment must be bonded to the ground wire with a minimum #6 copper. If more than (6) breakers are present, an Outdoor Main Disconnect is required.

Notice - Members may be charged a "Trip Fee" for additional trips due to errors in the members' wiring.

Pole Ground furnished by WCBC.

Copper Ground Rod (8"x5/8") furnished and installed by WCBC.

Attachment Clevis furnished by WCBC.

2' or less

4-Wire Meter Loop Tails, 2' Min. furnished by Consumer.

Cable or Conduit Straps furnished by Consumer, 3 Minimum.

Watertight Connector furnished by Consumer.

5' to 6'

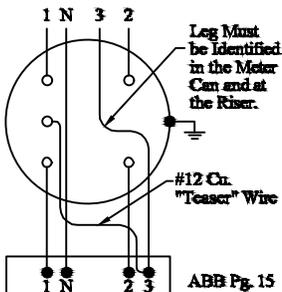
Minimum of #6 copper conductor must be used from the meter can to breaker cans.

Finished Ground Level

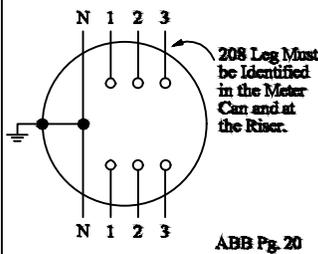
6'

Note:
City Wiring Requirements must be utilized where applicable, otherwise follow the requirements on this sheet and those in the National Electrical Code.

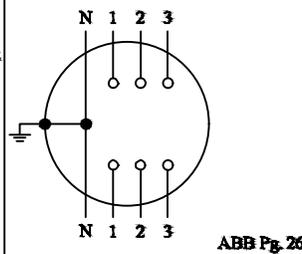
3-Phase 3-Wire Delta
240/480 volt, 5 terminal



3-Phase 4-Wire Delta
120/240 volt, 7 terminal



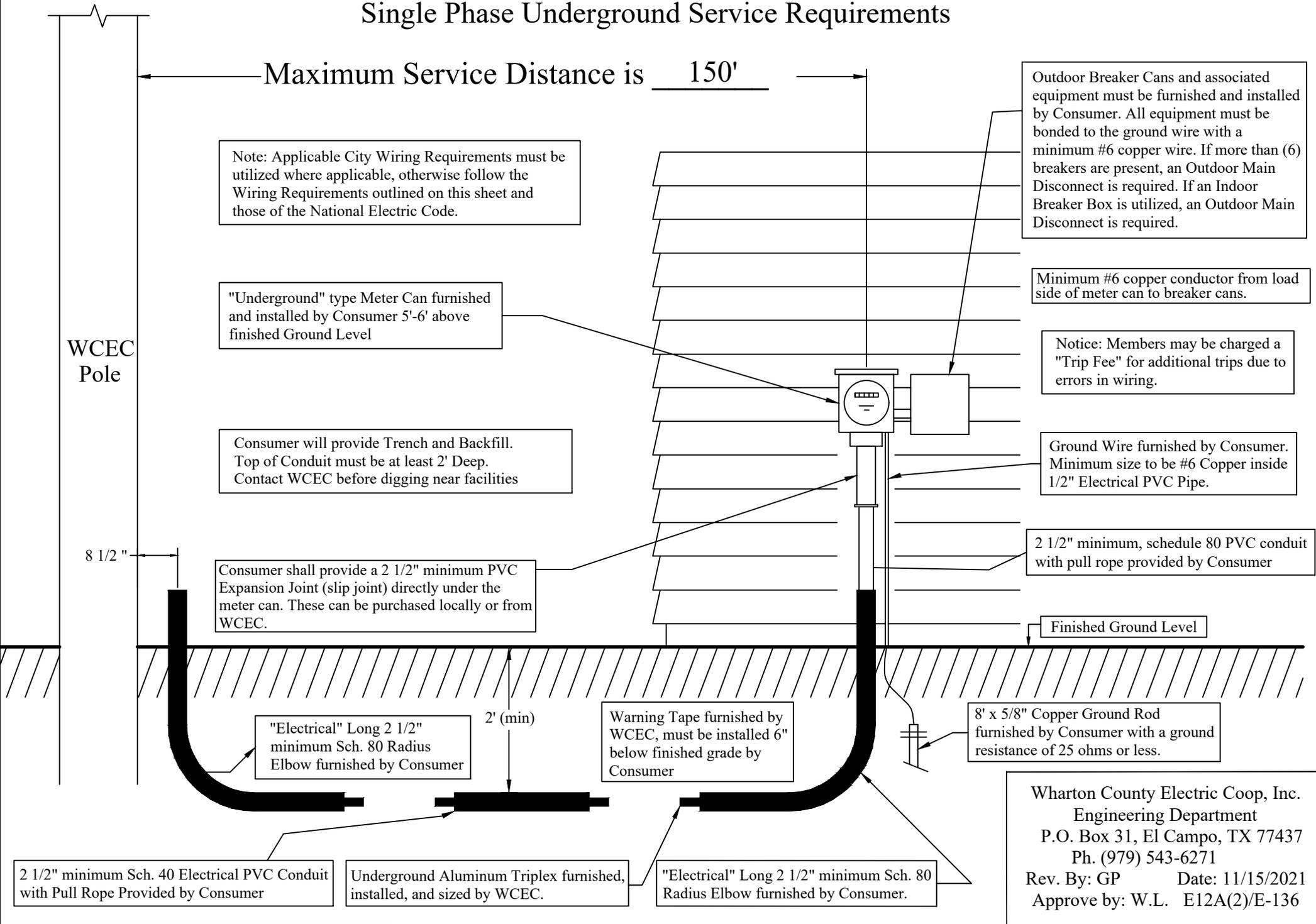
3-Phase 4-Wire Wye
120/208 volt, 7 Terminal
277/480 volt, 7 Terminal



Wharton County Electric Coop., Inc.
Engineering Department
P.O. Box 31, El Campo, TX 77437
Ph. (979) 543-6271
Rev. by: GP Date: 11/15/2021
Approved by: W.L. E-142

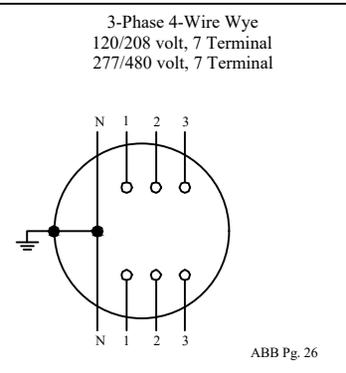
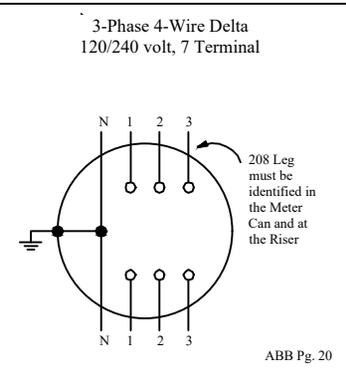
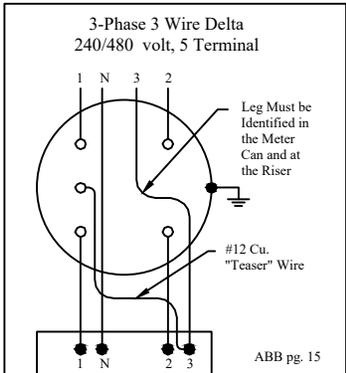
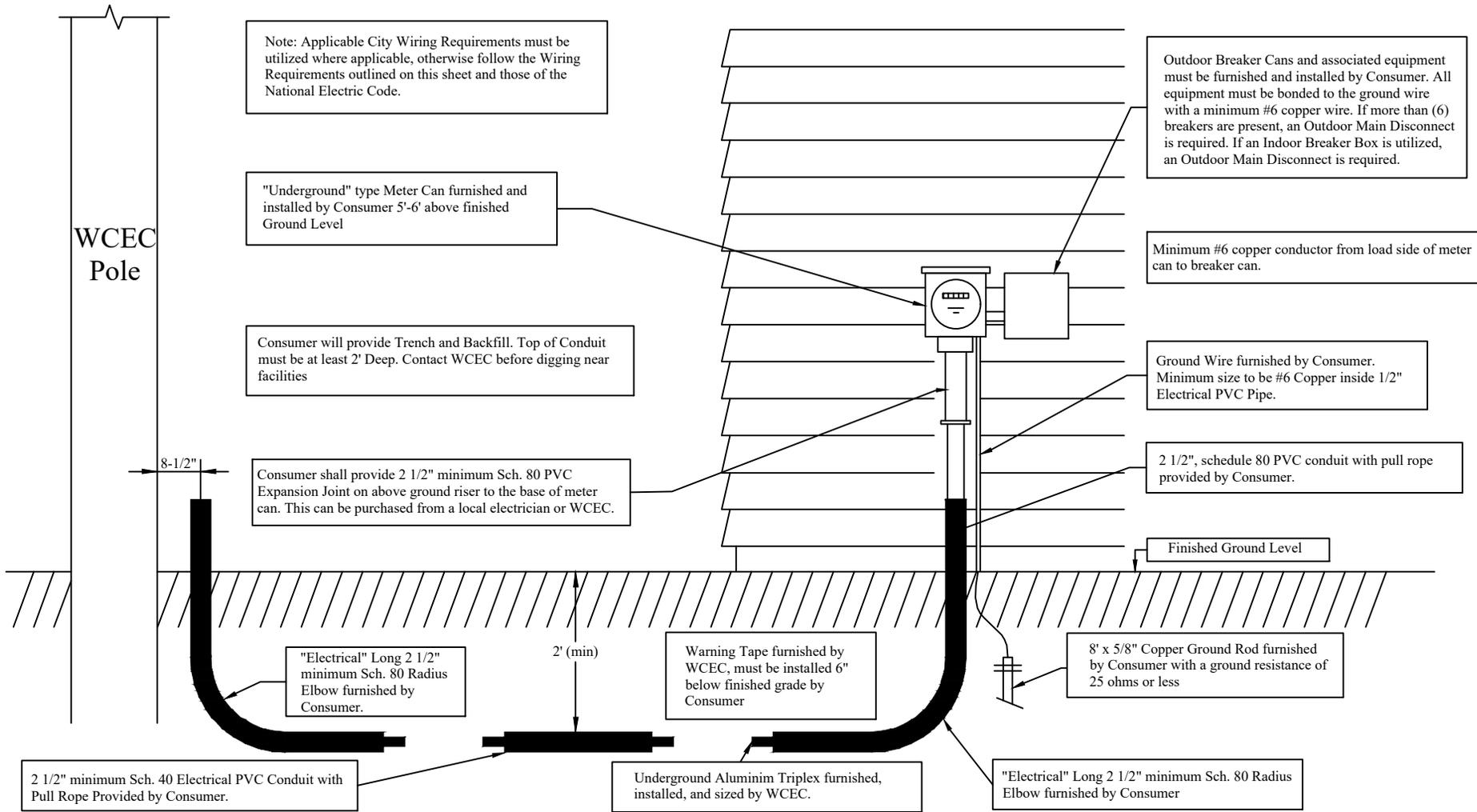
W.C.E.C.

Single Phase Underground Service Requirements



W.C.E.C.

Three Phase Underground Service Requirements



Notice: Members may be charged a "Trip Fee" for additional trips due to errors in the wiring

Wharton County Electric Coop, Inc.
Engineering Department
 P.O. Box 31, El Campo, Tx 77437
 Ph. (979)543-6271
 Rev. by: GP Date: 11/15/2021
 Approved by: W.L. E12A(2)/E-136