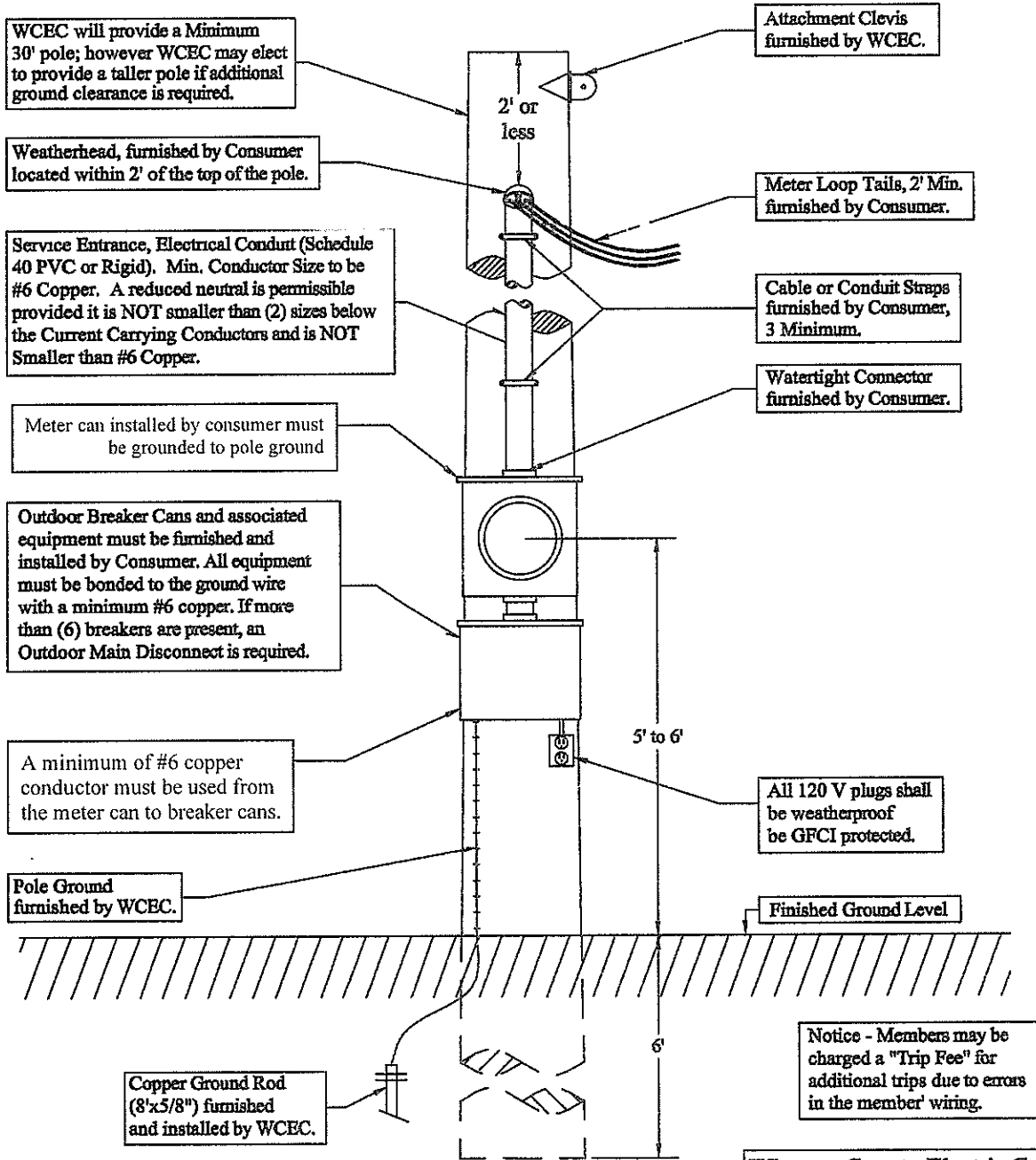


W.C.E.C.

Single Phase Pole Mounted Service Entrance Requirements



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
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Rev. by: GP Date: 11/15/2021
Approved by: W.L. E12D/E-124

W.C.E.C.

Single Phase Underground Service Requirements

Maximum Service Distance is 150'

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

"Underground" type Meter Can furnished and installed by Consumer 5'-6' above finished Ground Level

Consumer will provide Trench and Backfill. Top of Conduit must be at least 2' Deep. Contact WCEC before digging near facilities

Consumer shall provide a 2 1/2" minimum PVC Expansion Joint (slip joint) directly under the meter can. These can be purchased locally or from WCEC.

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 wire. 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.

Minimum #6 copper conductor from load side of meter can to breaker cans.

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

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

2 1/2" minimum, schedule 80 PVC conduit with pull rope provided by Consumer

Finished Ground Level

"Electrical" Long 2 1/2" minimum Sch. 80 Radius Elbow furnished by Consumer

Warning Tape furnished by WCEC, must be installed 6" below finished grade by Consumer

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

2 1/2" minimum Sch. 40 Electrical PVC Conduit with Pull Rope Provided by Consumer

Underground Aluminum Triplex furnished, installed, and sized by WCEC.

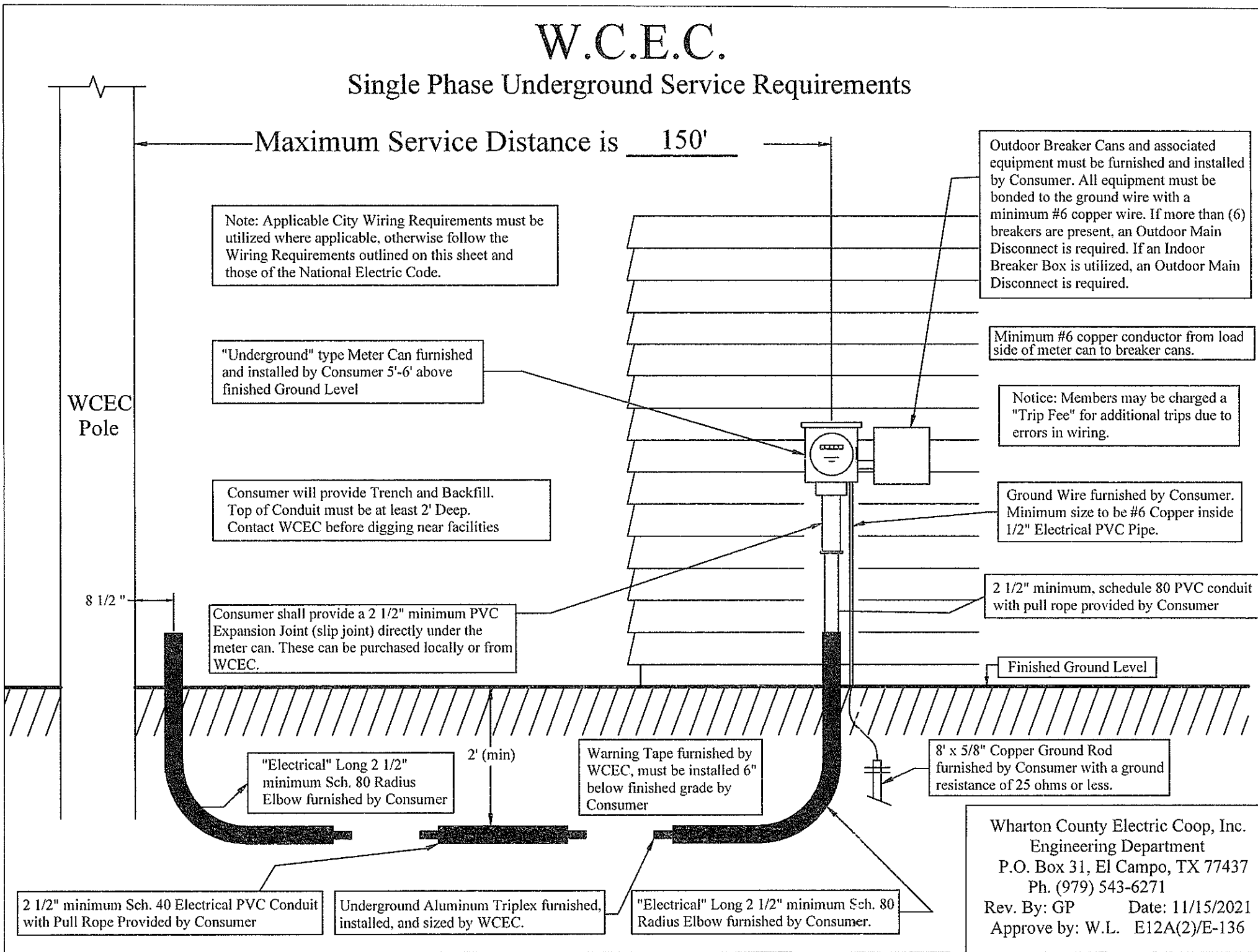
"Electrical" Long 2 1/2" minimum Sch. 80 Radius Elbow furnished by Consumer.

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WCEC Pole

8 1/2"

2' (min)



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

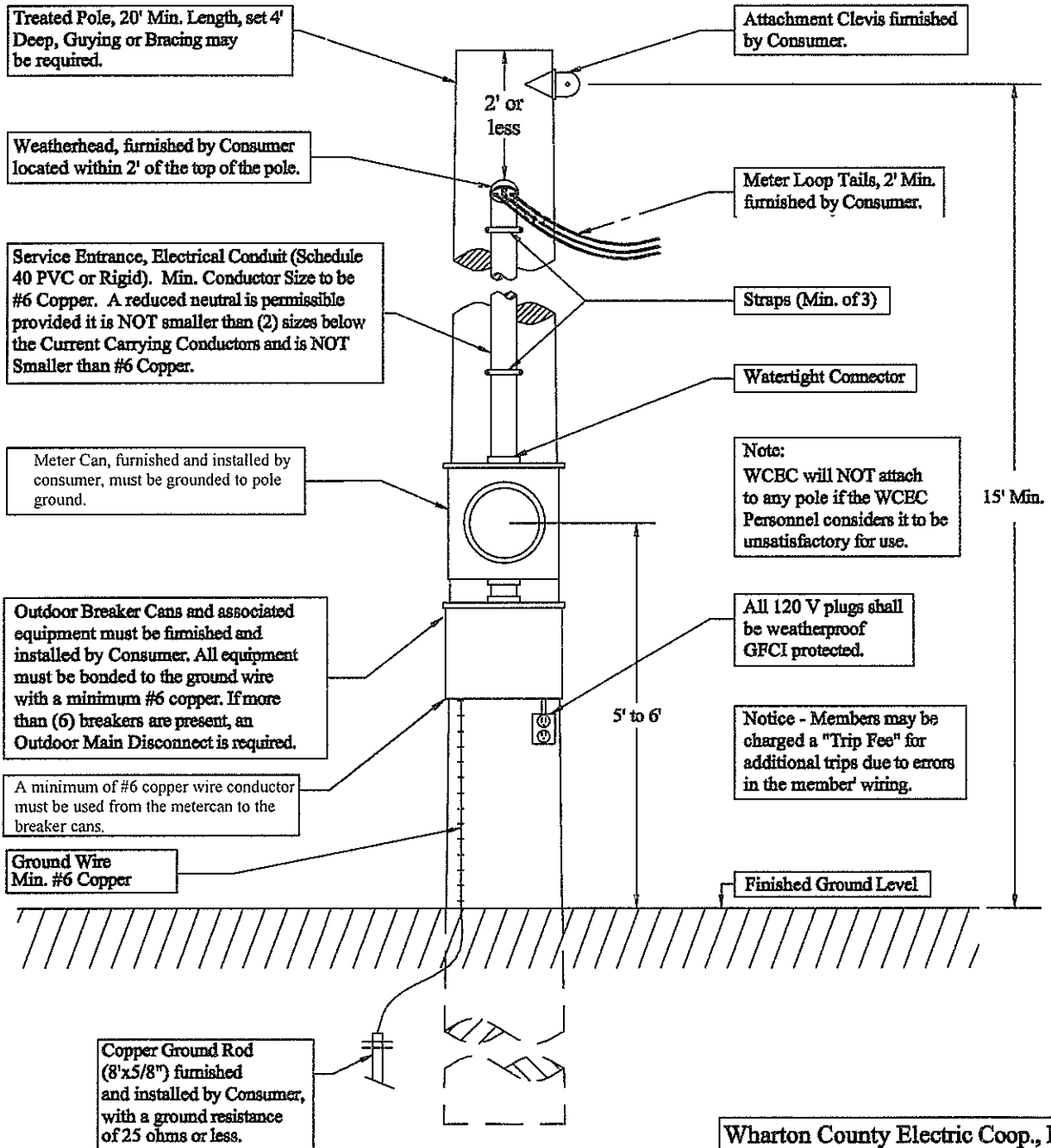
Notice - Members may be charged a "Trip Fee" for additional trips due to errors in the member's wiring.

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

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W.C.E.C.

Consumer Owned Pole Service Entrance Requirements For Temporary or Permanent Use

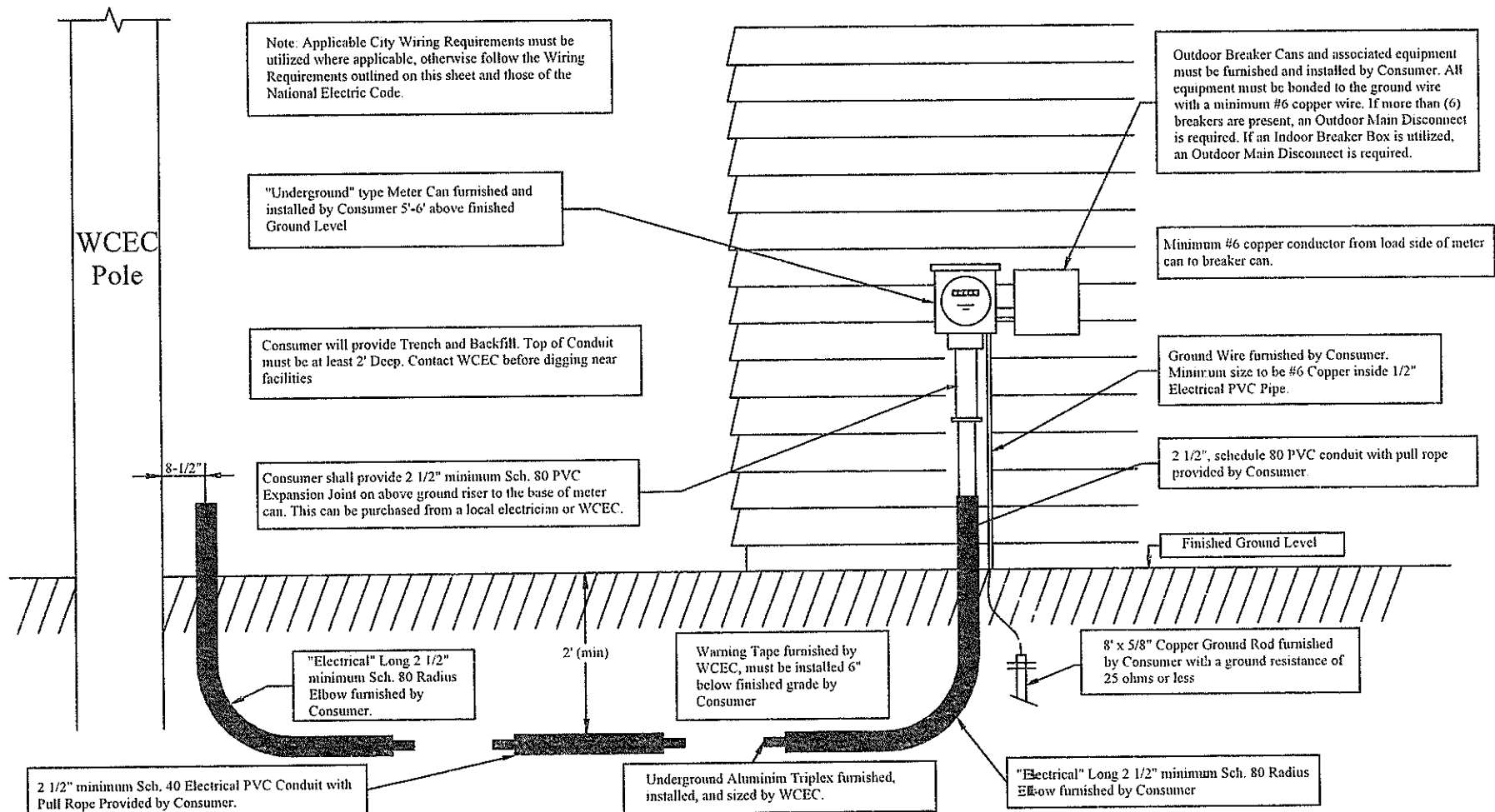


Note:
Applicable City Wiring Requirements must be utilized where applicable, otherwise follow the requirements on this sheet and those in the National Electric Code.

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W.C.E.C.

Three Phase Underground Service Requirements

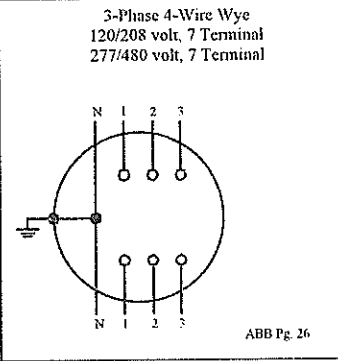
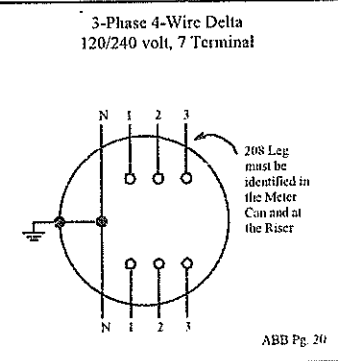
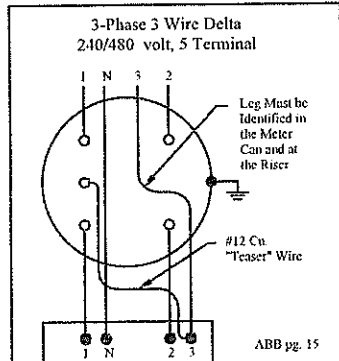


2 1/2" minimum Sch. 40 Electrical PVC Conduit with Pull Rope Provided by Consumer.

"Electrical" Long 2 1/2" minimum Sch. 80 Radius Elbow furnished by Consumer.

Underground Aluminum Triplex furnished, installed, and sized by WCEC.

"Electrical" Long 2 1/2" minimum Sch. 80 Radius Elbow furnished by Consumer



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

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W.C.E.C.

Three Phase Pole Mounted Service Entrance Requirements

WCEC will provide a Minimum 30' pole; however WCEC 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 WCEC.

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

Attachment Clevis furnished by WCEC.

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

Cable or Conduit Straps furnished by Consumer, 3 Minimum.

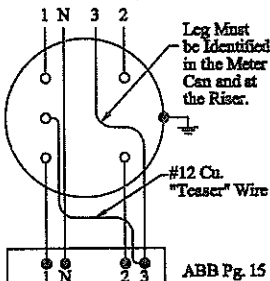
Watertight Connector furnished by Consumer.

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

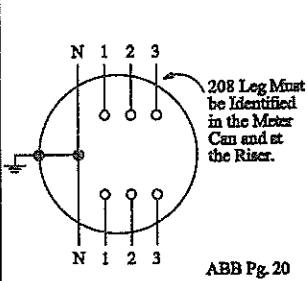
Finished Ground Level

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

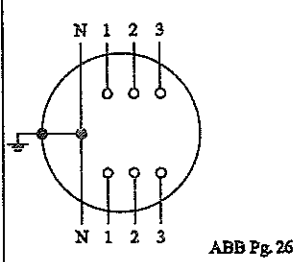
3-Phase 3-Wire Delta
240/480 volt, 5 terminal



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



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