

Cherokee Electric Cooperative Construction Guidelines



PO Box 0
1550 Clarence Chesnut By-Pass
Centre, AL 35960
Phone: 256-927-5524
www.Cherokee.coop

**CONTAINS DRAWINGS AND NATIONAL ELECTRIC
CODE REQUIREMENTS, IN ADDITION TO
CHEROKEE ELECTRIC COOPERATIVE
CONSTRUCTION GUIDELINES**

Revised 9-2020

General Requirements for Power Connection

All meter installations must be on the customer's own pole, NOT CEC's.

The bare ground wire from the meter base must be attached to the structure.

All wires must be continuous with no splices anywhere along the run.

If using PVC conduit, it must be electrical grade schedule 40 PVC.

An 8-foot ground rod, being copper clad or galvanized, must be installed.

Must use a one-piece ground rod clamp to attach the ground wire to the rod.

The ground wire must be at least #4 solid copper and attached in the grounding lug in the meter base.

The center of the meter base, once installed, must be between 5 feet and 6 feet in height from the ground.

If using a separate meter base and disconnect in combination, they must be connected by conduit and weather tight fittings.

The main disconnect (breaker) must be large enough for the requirements of the structure.

The energized wires extending from the meter base to the disconnect must be connected to one breaker that is capable of turning all power to the structure.

Must ensure proper weather head configuration depending on entrance cable or conduit.

The weather head must be a MINIMUM of 12 feet from the ground.

There must be a minimum of 3 straps attaching the entrance cable or conduit riser onto the structure.

All meterbases must be out of lake easement and or floodplain .

All meterbases must have access for Cherokee Electric Coop maintenance.

The following guide is for proper wire sizing of the main disconnect (breaker)

| Disconnect Size | Copper Wire | Aluminum Wire | Conduit Size |
|------------------------|--------------------|----------------------|------------------------------|
| 60 Amp | #6 | #4 | 2" |
| 100 Amp | #2 | #2 | 2" |
| 200 Amp | 3/0 | 4/0 | 2" |
| 400 Amp | 500 MCM | 500 MCM | Either 3", 3.5" or 4" |
| 600 Amp | 750 MCM | 750 MCM | Either 3", 3.5" or 4" |

Any upgrades or renovation by the member must comply to all the above requirements

House Requirements for Power Connection

Underground:

When installing a separate disconnect adjacent to the meter base, the disconnect must be to the right of the underground approved meter base.

A meter base and disconnect combination box is acceptable for use.

The foundation that extends beyond the house at the meter base's location must be removed.

Overhead:

Any service entrance conduit that extends above the roof must be galvanized conduit.

For installations not extending above the roof, a CEC furnished eye bolt must be installed through a framing member.

For installations requiring a conduit extension, the splice must be on the meter base end and no longer than 4 feet in length.

An exterior disconnect must be mounted adjacent to the meter base.

Mobile Home Requirements for Power Connection

Any pole being used to mount the meter base and disconnect to must be 18 feet in height, at least 5 inches in diameter OR pressure treated 6-inch X 6 inch minimum.

The pole must be set a minimum of 4 feet into the ground.

The pole must be located to where the service drop to the pole will not cross over the roof of the structure (any questions should be directed to CEC engineering).

All materials that the meter base and disconnect are attached to must be pressure treated.

The meter base and disconnect must be attached to the pole by 2-inch lag bolts.

It is required to have a fourth wire, minimum #6 stranded copper, connected from the exterior disconnect's grounding buss to the interior service panel's grounding buss.

Any wiring that is above ground level must be in conduit.

All wiring from the exterior disconnect to the mobile home must be approved for underground burial.

Camper/Temporary Pole Requirements for Power Connection

Any pole being used to mount the meter base and disconnect to must be 18 feet in height, at least 5 inches in diameter OR pressure treated 6-inch X 6-inch minimum.

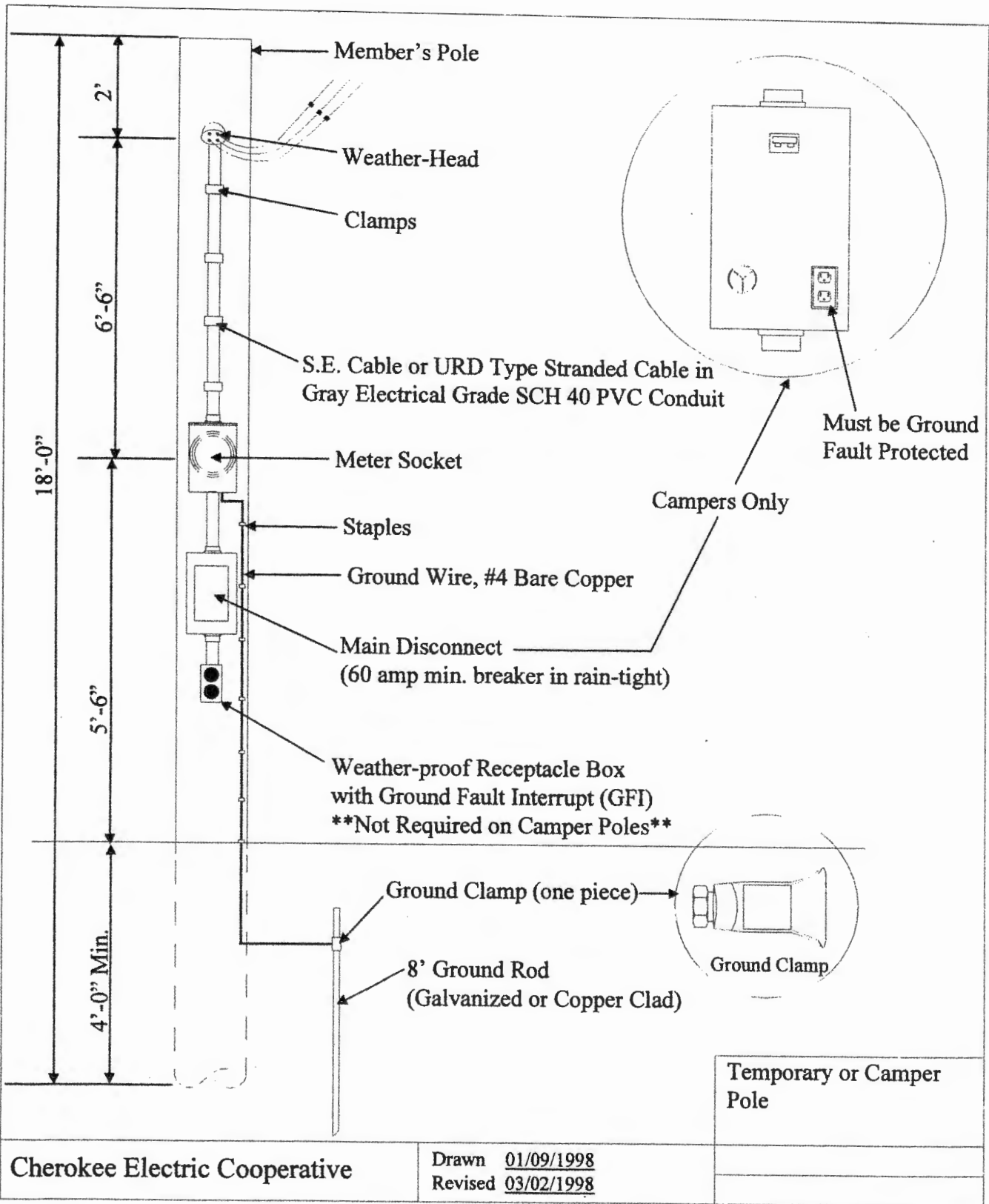
The pole must be set a minimum of 4 feet into the ground.

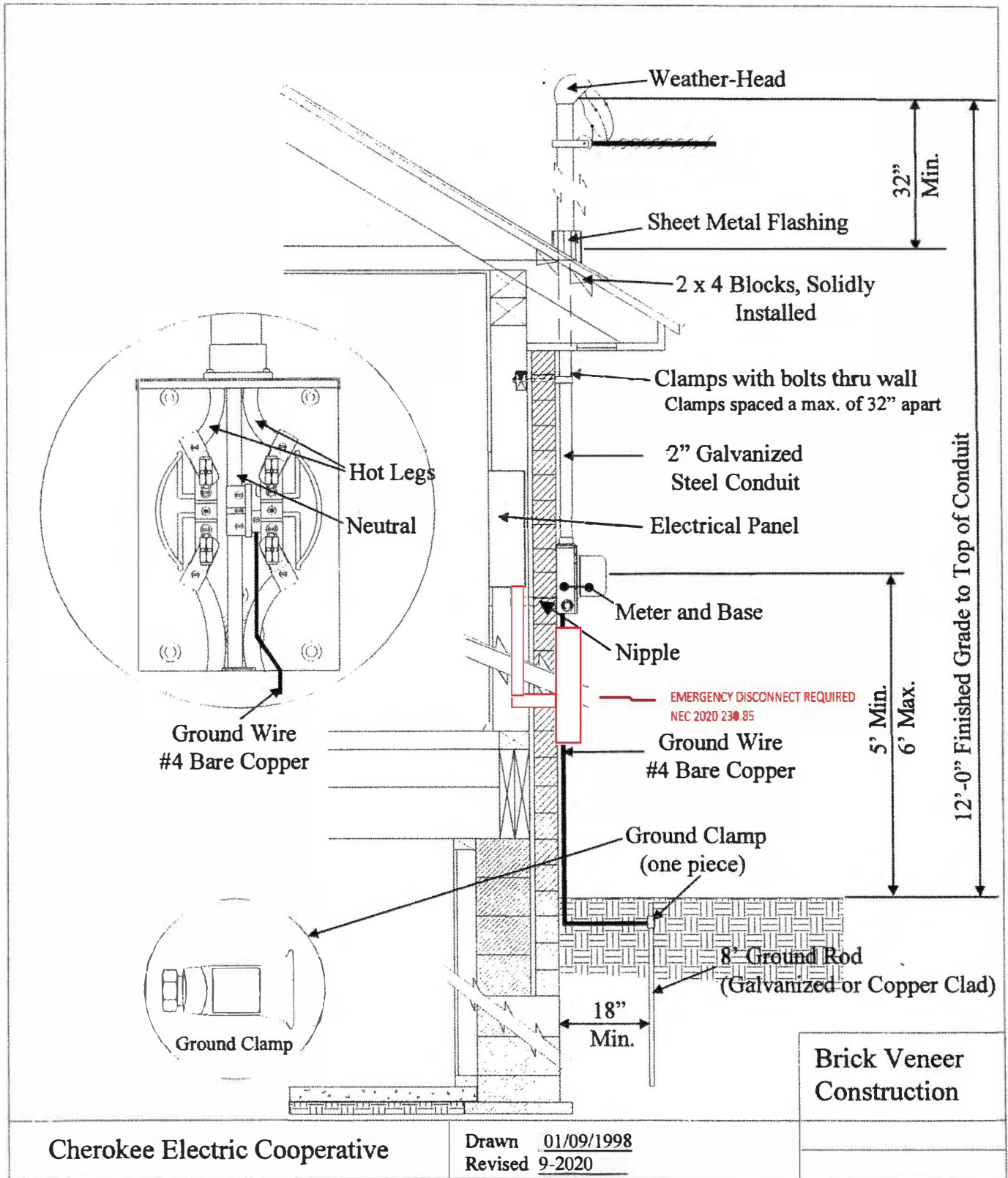
The pole must be located to where the service drop to the pole will not cross over the roof of the camper (any questions should be directed to CEC engineering)

The receptacle must be a Ground Fault Interrupt type or fed by a Ground Fault Interrupt breaker.

The receptacle must be in a weatherproof box.

The wiring from the disconnect to the receptacle must be in conduit.

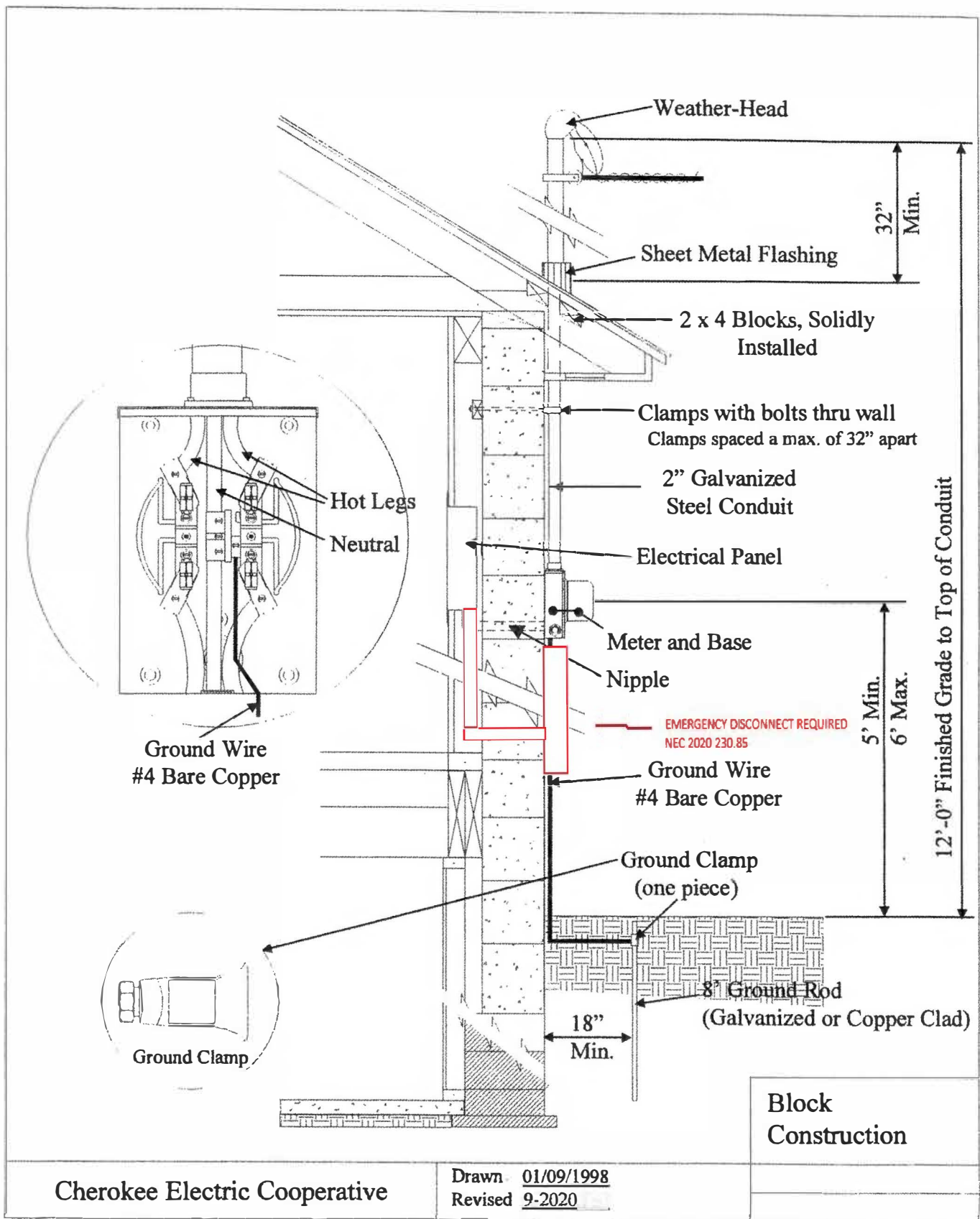




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Drawn 01/09/1998
 Revised 9-2020

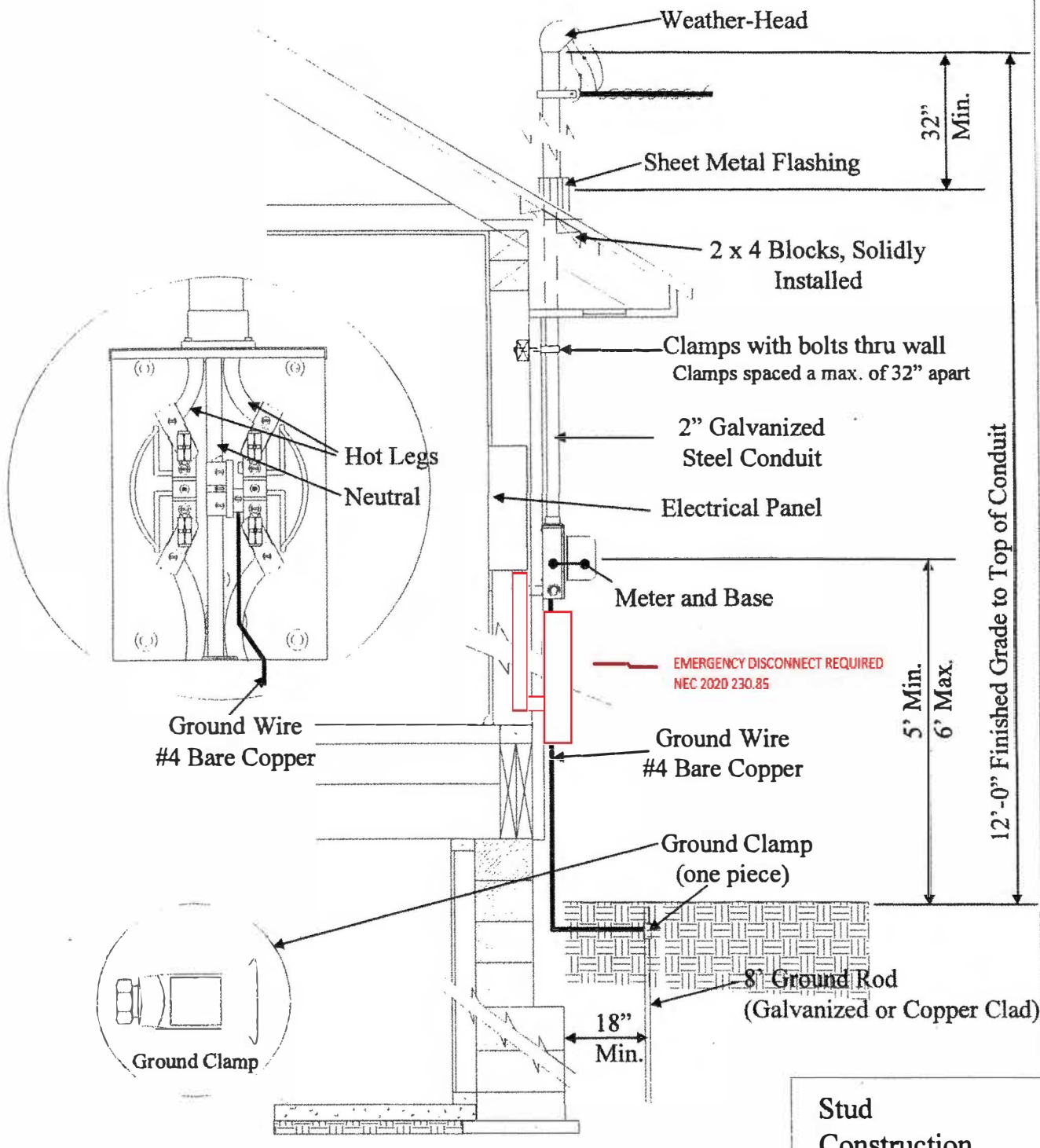
Brick Veneer
 Construction



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 Revised 9-2020

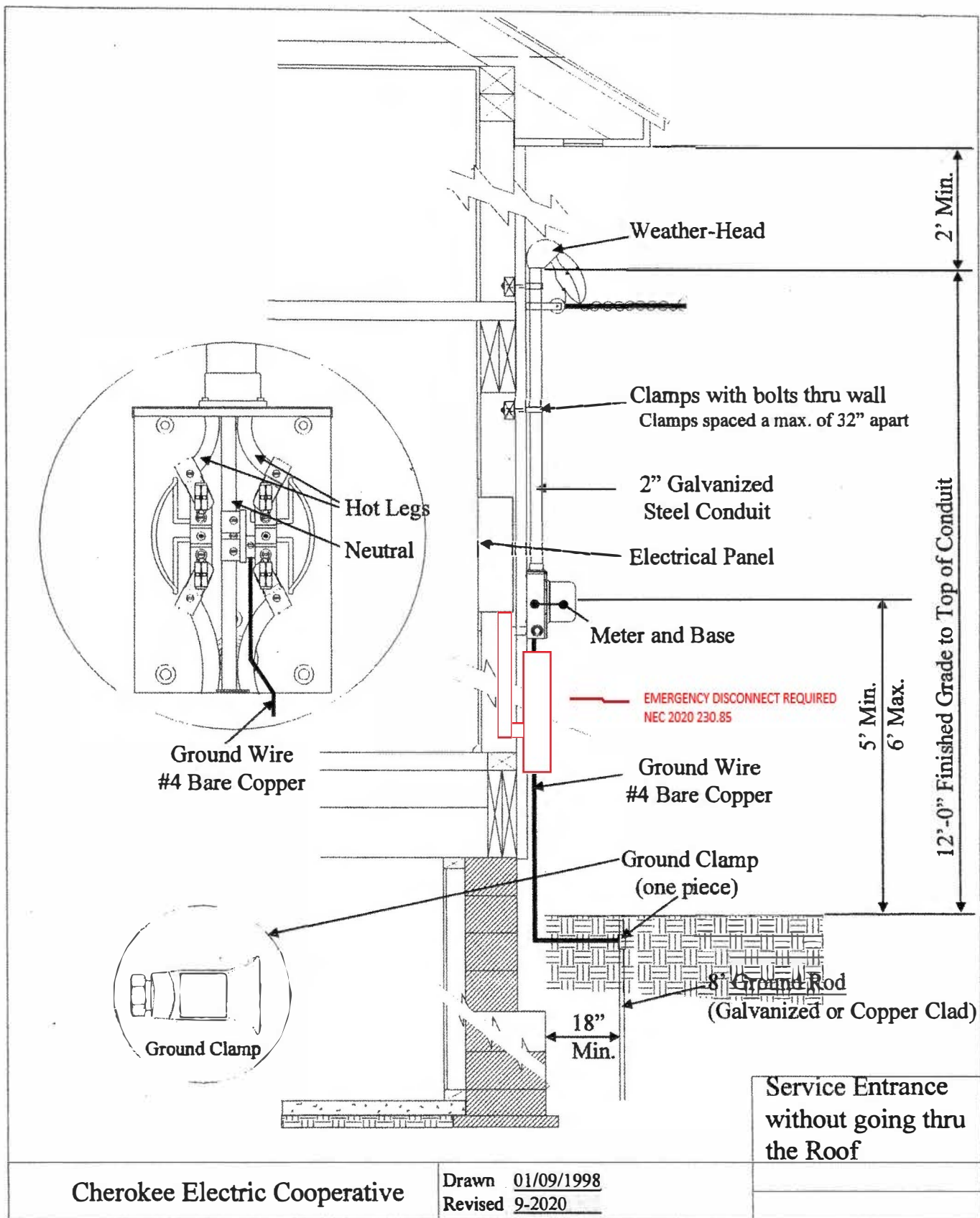
Block
 Construction

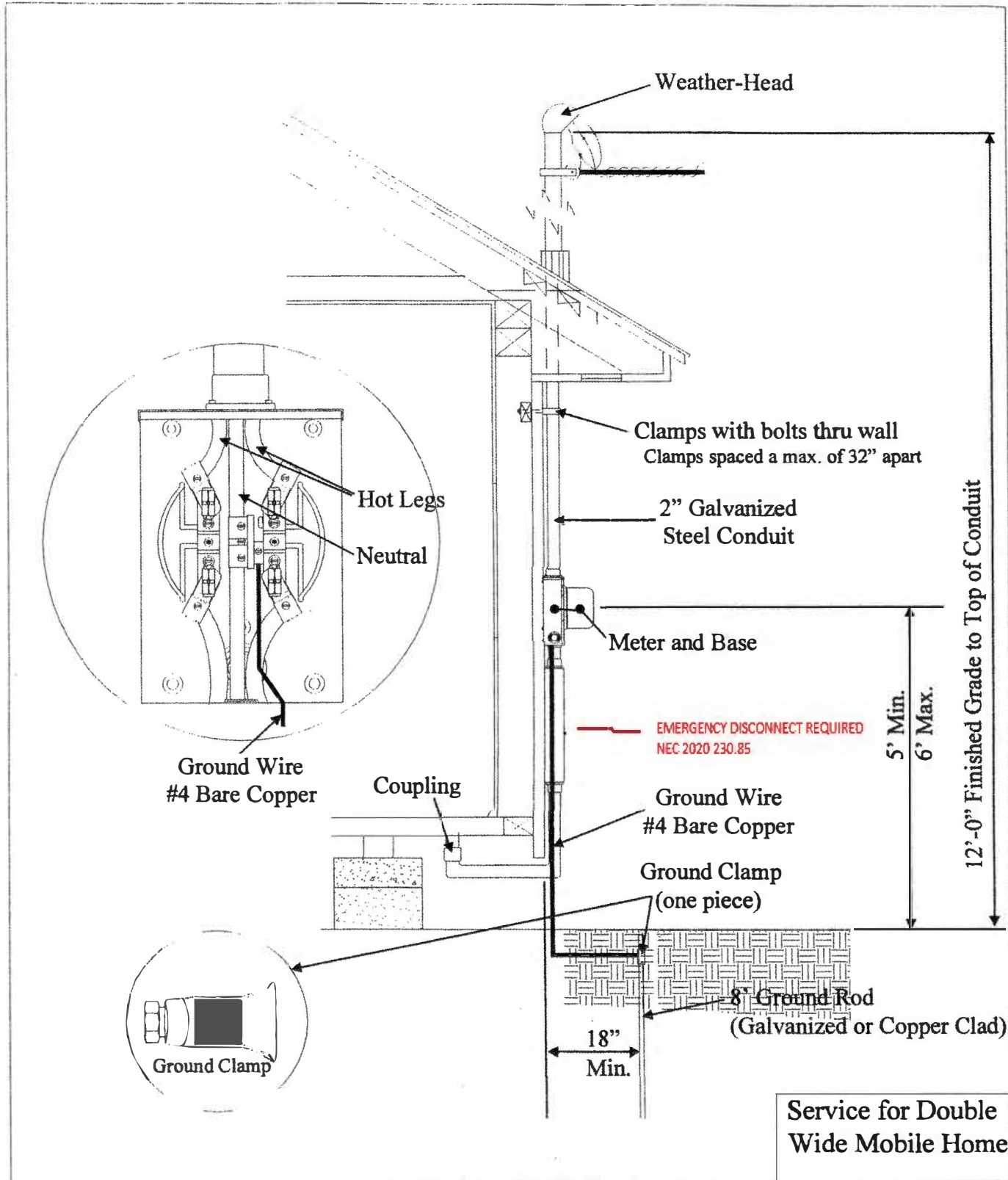


Stud
Construction

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Drawn 1/09/1998
Revised 9/2020

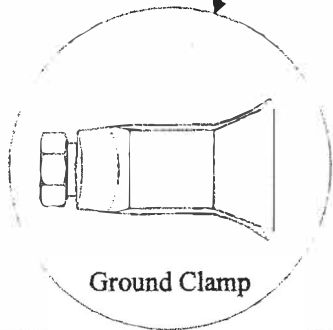
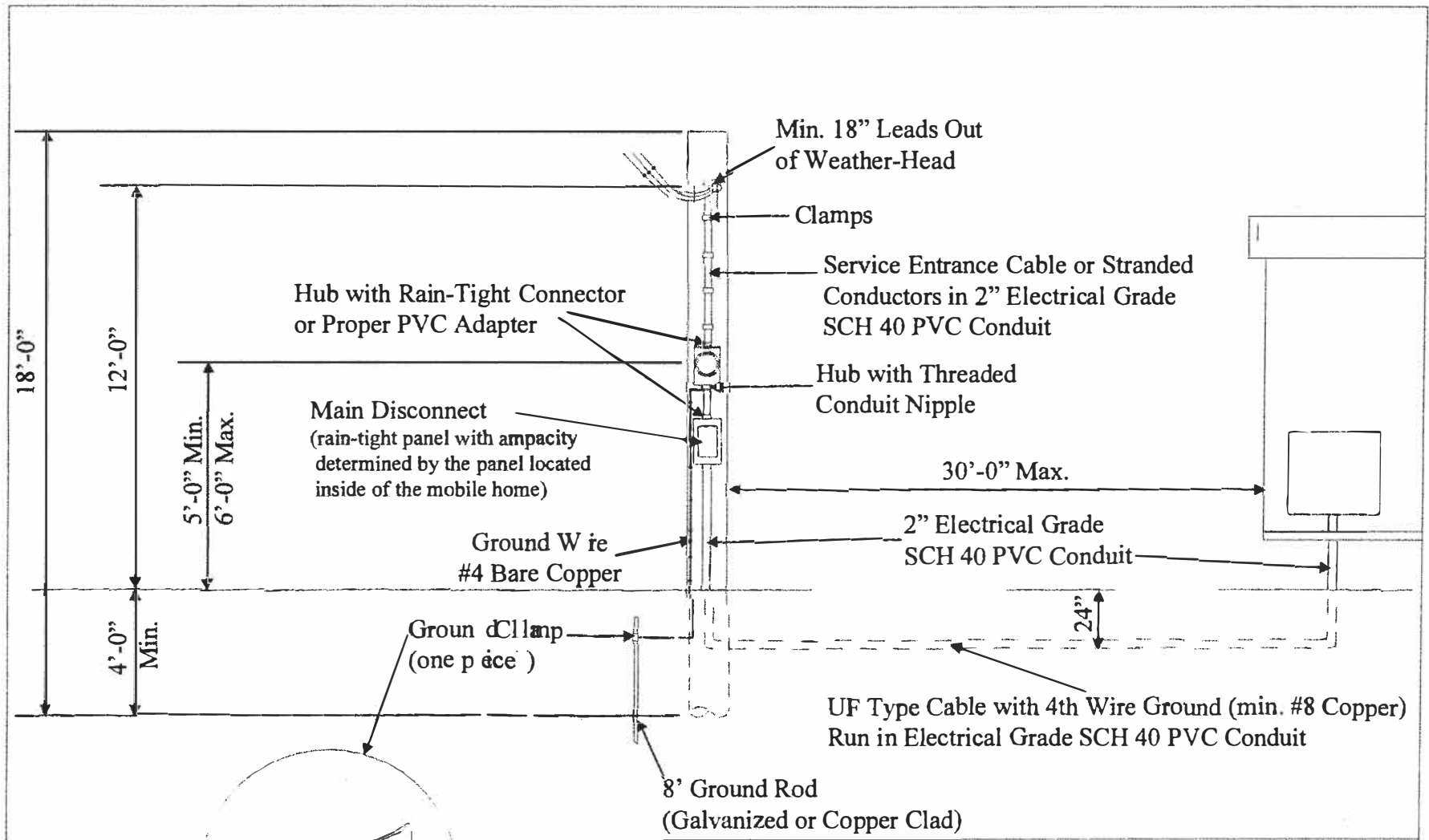




Service for Double Wide Mobile Home

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Drawn 02/25/1998
 Revised 9-2020



Ground Clamp

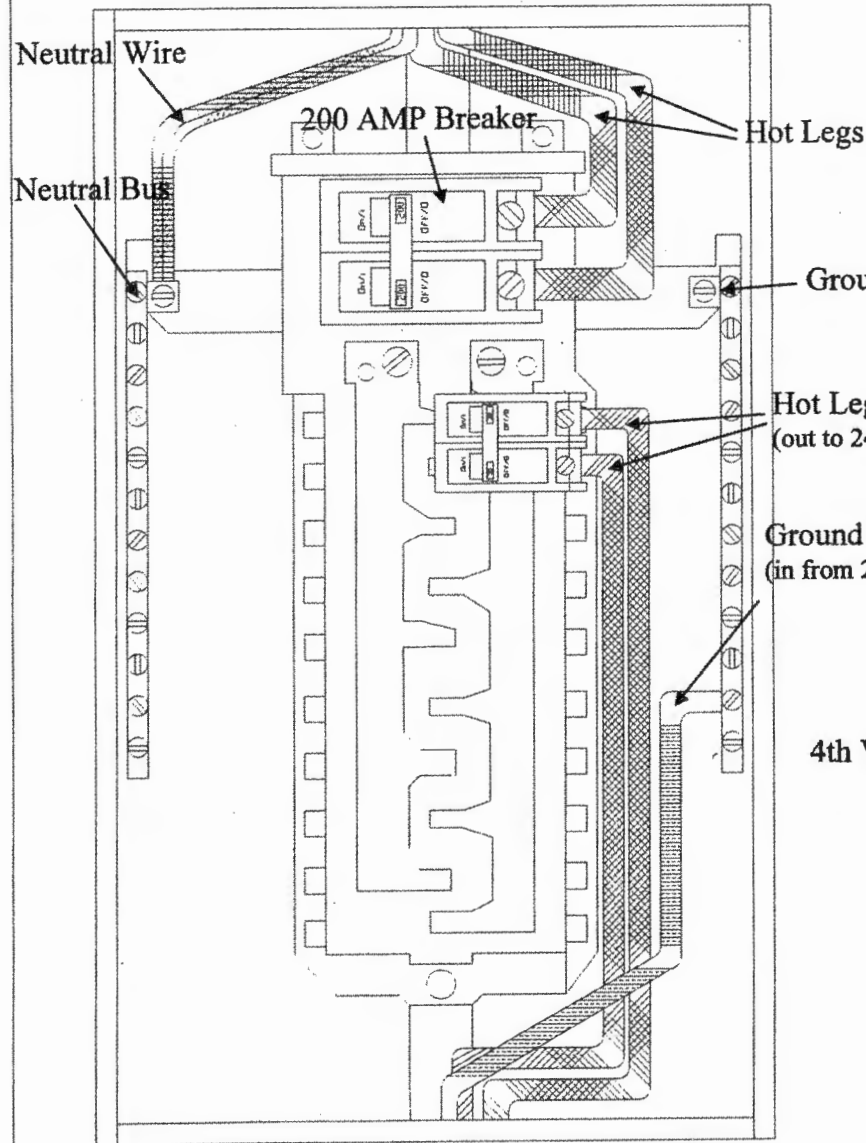
Service For Single Wide
Mobile Home

(also approved for Double Wide)

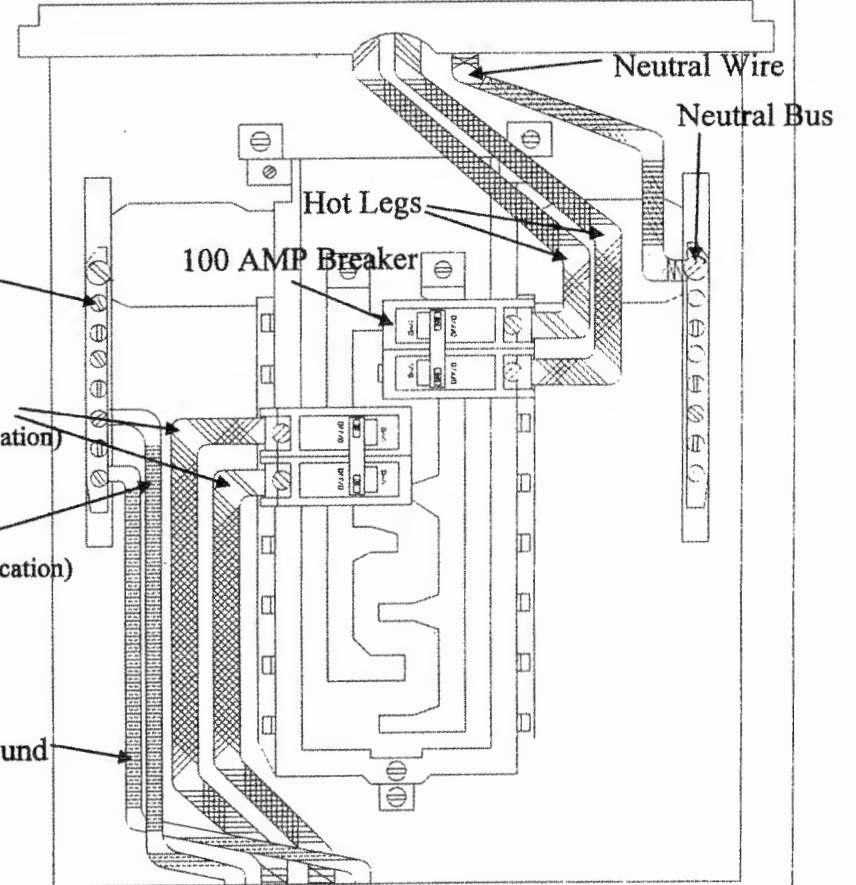
Drawn 01/11/1998

Revised 01/22/1998

200 AMP Main Disconnect



100 AMP Disconnect (with 100 AMP Breaker Acting as Main)

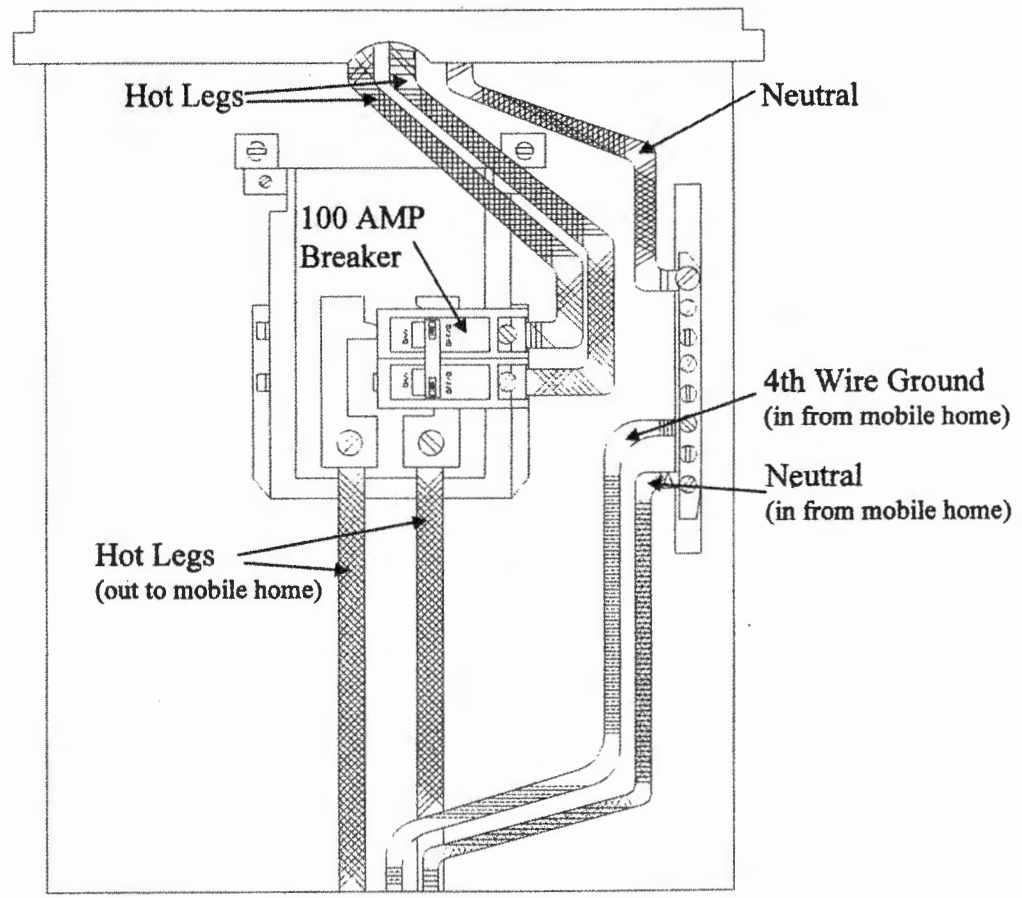


Hot Legs
(out to 240V application)

Ground Wire
(in from 240V application)

4th Wire Ground

200 AMP and 100 AMP
Main Panels



100 AMP Breaker Acting
as Main Disconnect
Alternate Method