

# 200amp & 400amp Residential Underground Service

CONSTRUCTION HOTLINE  
1.866.992.6619

## METER ENCLOSURES:

1. Selected from the List of Approved devices as shown in the Ameren Missouri Electric Service Manual found at [Ameren.com/ServiceManual](http://Ameren.com/ServiceManual).
2. 200amp or 400amp enclosures to be designed for Underground application and U.L. approved and equipped with Safety Lever Bypass. No Ring style meter bases allowed.
3. All unused knockouts in meter enclosure and fused disconnect must be plugged with standardized plugs.
4. Fused or breaker disconnect with cover plate is required below meter enclosure if electrical panel is more than 10' away in most cases (Must check with local inspection authority for requirement).
5. Only use bottom left knockout for Ameren Missouri service cables.
6. Meter enclosure to be mounted between the midpoint of the permanent building/home and the corner closest to Ameren Missouri source facilities with fused disconnect in the 'OFF' position. All meter enclosure locations to be approved by Ameren Missouri.
7. Meter enclosures shall not be attached with non-ferrous screws or drywall screws.
8. Meter enclosure shall be installed between 3' and 5 1/2' measured from final grade to center of glass. If enclosure is mounted along a driveway/parking lot or an abutting sidewalk 36" or less, mount at 6 1/2' from center of glass.
9. NOTE: To qualify for a Residential rate, the residence must have one or more rooms used for eating, sleeping, and permanent provisions for cooking and sanitation.

## CONDUIT:

1. For 200amp services, use 2 1/2" or 3" schedule 40 PVC conduit with expansion coupling and 24" radius elbows.
2. For 400amp services, use 3" schedule 40 PVC conduit with expansion coupling and either 24" or 36" radius elbows.
3. Service conduits shall have a minimum of 24" of ground cover and be equipped with a 2500# polyester pulling tape.
4. Use schedule 80 PVC conduit for any sections subject to physical damage.
5. No bends/elbows of less than 24" radius shall be used.
6. Conduit shall be schedule 40 PVC, gray in color, standard sizes for use with standard schedule 40 fittings and accessories.
7. Conduits and their associated fittings to be bonded together with PVC solvent cement.
8. Service conduit path shall have 90 degree/24" bend at meter base and at power source with one additional 24" or 36" bend in between, if required.
9. Schedule 40 PVC Expansion Coupling Joint required and to be installed in the left knockout with the outer sleeve on top and positioned at the manufacturer's 'midway mark'.

## GROUNDING:

1. National Electric Code approved grounding required. For 200amp service, bond enclosure with #4 bare copper. For 400amp service, bond enclosure with #2 bare copper.
2. Ground wire between meter enclosure ground lug and ground rod shall be continuous with no splices.



**200 Amp  
With Lever Bypass**



**200 Amp With Lever Bypass  
and Main Disconnect**

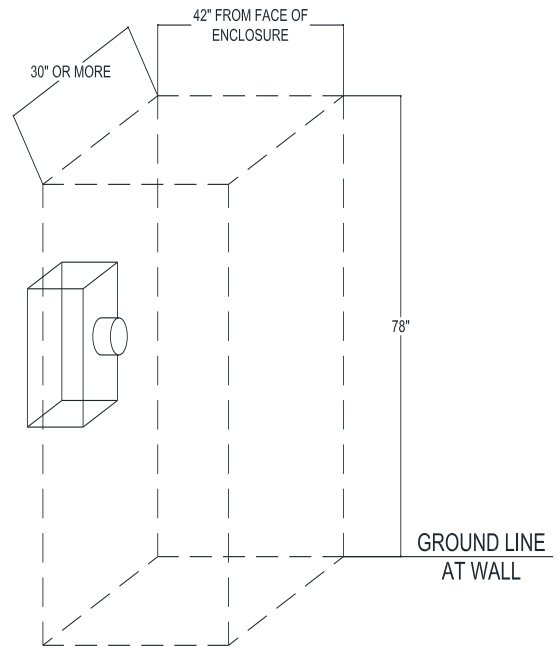


**400 Amp With Lever Bypass  
and Main Disconnect**



**400 Amp  
With Lever Bypass**

**NOTE: Contact local inspection authority  
for their requirements**



**UNOBSTRUCTED WORK SPACE  
30" OR WIDER**

