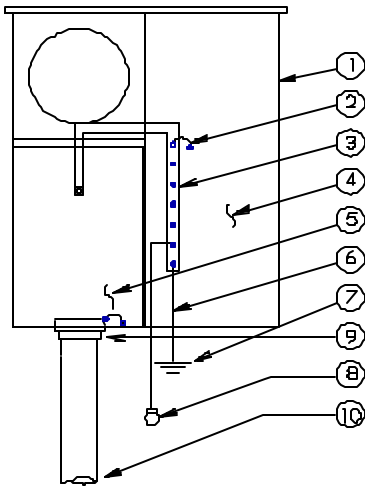




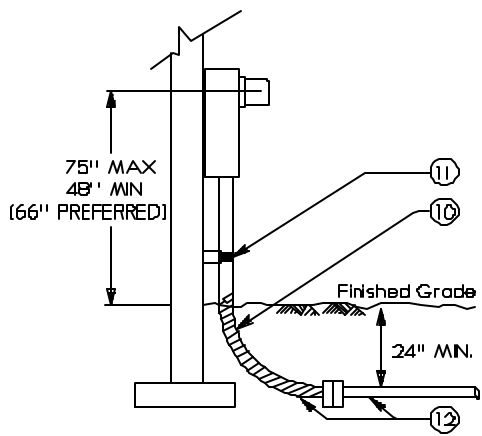
TYPICAL UNDERGROUND RESIDENTIAL METER INSTALLATION

1 Ph, 3W, 120/240 VOLT

FRONT VIEW



SIDE VIEW



24" Min. below finished grade to top of conduit

Permits and inspections are required. Please contact the governing inspection agency in your area. This is a list of material for a normal residential meter installation. It is not intended to be all inclusive but gives the more common requirements. All equipment shall comply with EUSERC requirements and all specifications found in the APS Electric Service Requirements Manual (ESRM).

1) Meter socket, breaker compartment and pull section must be raintight equipment. Meter socket jaws or clips shall be free of foreign material (mud, paint, plaster, etc.). **RINGLESS METER SOCKETS ARE NOT ACCEPTABLE.** See paragraph 303.8, page 29 of ESRM for socket configuration.

2) Install a main bonding jumper from isolated neutral to equipment grounding bus.

3) Insulated neutral landing block.

4) Customers breaker compartment.

5) APS pull section.

6) The ground wire (#4 bare solid copper) shall be continuous from the equipment grounding bus to an approved grounding electrode system in compliance with NEC Article 250. The ground wire must be properly supported and attached to the building at 24" intervals.

7) Approved grounding electrode system.

a) 5/8" x 8' long ground rod and approved clamp. Entire length of ground rod to be below grade

b) 20' of bare #4 copper wire installed in concrete footer (UFER).

Note: Enough wire to reach main disconnect must extend outside concrete footer.

8) Bonding of piping systems - all interior metal piping shall be bonded to the electric grounding system. Gas piping shall be bonded on the house side of the insulated coupling. Building bond required on metal frame buildings. All bond wires to be tied to equipment grounding bus, grounding electrode, or grounding electrode conductor where of sufficient size.

9) Approved self-bonding hubs or bondable type connection required. Use largest available knock-out hub.

10) Conduit to be 2-1/2" minimum rigid steel, I.M.C. or SCH 80 PVC, supplied and installed by the Customer. Metal conduit installed below ground level shall be factory coated or shall be half-lapped with 20 mil tape suitable for it's use to a total thickness of 40 mils. **UNDERGROUND RISERS INSIDE STRUCTURAL WALL SHALL BE I.M.C. OR RIGID STEEL CONDUIT.**

11) Riser shall be plumb and rigidly fastened to the wall one-third of the distance above finished grade ($\pm 6"$).

GENERAL NOTES:

1. Meter location to be specified by Company Representative

2. If more than one meter to the premise is approved by APS, Customer shall permanently identify each meter as to which portion of the premise is being served. Metal stamping or metal tag is required. Painted identification is not acceptable.

3. All trenching must be done according to APS Trenching Requirements as specified in the Trenching Agreement.

4. See reverse side for trench details.