

## ELECTRICAL DISTRICT NUMBER TWO, PINAL COUNTY TYPICAL OVERHEAD RESIDENTIAL METER INSTALLATION Single Phase 120/240 VOLT

### MATERIAL LIST

This is a list of material for a normal overhead 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 ED2 Electric Service Requirements.

1. Point-of-attachment to be insulated.
  2. Rigid metal conduit is required if service is attached to the service drop clamp. If conduit is attached to building, Customer is to install a 1/2" bolt with a 2" backing washer.
  3. Unbraced attachment maximum height above roof is 20" for 1-1/2" conduit and 30" for 2" and larger conduit.
  4. Universal service drop brace.
  5. Approved hub, must be rain tight.
  6. Meter socket, breaker panel must be rain tight equipment. Meter socket jaws or clips shall be free of foreign material (mud, paint, plaster, etc.) RINGLESS METER SOCKETS ARE NOT ACCEPTABLE.
  7. Neutral to be a continuous, unbroken conductor from the weatherhead to the neutral landing block.
  8. Neutral landing block.
  9. Install a bonding jumper or screw if the neutral landing block is insulated from the enclosure.
  10. Bonding of piping systems - interior metal piping shall be bonded to the electric grounding system. Gas piping shall be bonded on the house side of the insulating coupling.
  11. The ground wire (#4 bare solid copper) shall be continuous from the neutral landing block 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.
  12. Approved grounding electrode system:
    - a. 5/8" x 8' long ground rod and approved clamp. Entire length of rod to be below grade.
    - b. 20' of bare #4 copper wire installed in concrete footer.
- Note: Enough wire to reach main disconnect enclosure must extend outside concrete footer.

Service Rating	Copper Wire	Aluminum Wire	Weather Head & Conduit
100 Amp	#2	#2	1-1/2" Rigid
125 Amp	#2	#1/0	1-1/2" Rigid
150 Amp	#1	#2/0	1-1/2" Rigid
200 Amp	#2/0	#4/0	2" Rigid
225 Amp	#3/0	#250	2" Rigid

### GENERAL NOTES

1. Meter location to be specified by ED2 Representative.
2. If more than one meter to the premises - each meter shall be permanently identified, by the Customer, to properly identify that portion of the premises being served. Metal stamping or metal tag is required. Painted identification is not acceptable.
3. All materials or work furnished by the Customer shall be in accordance with applicable codes and standards.
4. Minimum service height above ground:

Over areas accessible to pedestrians only: 12'-6"  
 Crossing over residential driveways: 12'-6"  
 Over parking lots, service areas and open driveways not subject to truck traffic: 12'-6"  
 Over parking lots, service areas and open driveways subject to truck traffic: 18'  
 Over public streets; alleys, roads in urban/rural districts: 18'  
 Over areas accessible to equestrian traffic: 18'

