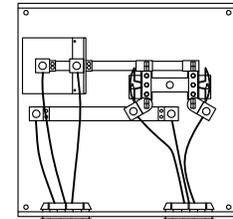
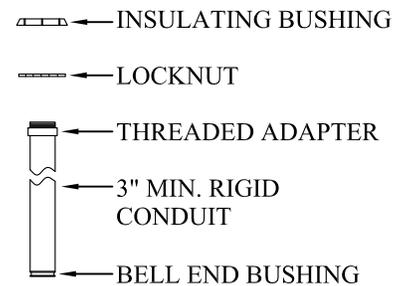


Installation Requirements For Typical 320 Amp Or Less Underground Service

LINE-SIDE RISER ASSEMBLY NOTE 11



SERVICE WIRE SERVICE ENTRANCE



DISCONNECT REQUIREMENTS
NOTE 13

CONDUIT AND TRENCH DETAILS
NOTES 8, 9 & 10

INTERSYSTEM BONDING TERMINATION
NOTE 15

6'-0" MAX.
4'-0" MIN.
ABOVE FINISH GRADE
NOTE 7

FINISH GRADE

6'-0" MIN.

GROUNDING REQUIREMENTS
NOTE 14

SWEEP ELBOW
NOTE 9

NOTES:

1. Call Appalachian Power to have meter location approved.
2. Before digging, please call Miss Utility at 1-800-245-4848 to have the location of all utilities marked.
3. An APCO representative will contact you to sign the necessary underground agreement contract and to determine the applicable underground installation charges (if any) that must be paid before the service installation can be scheduled.
4. Structure wall shall be capable of properly supporting meter base.

* See back for additional requirements

Typical 320 Amp or Less Underground Service Installation

5. Meter base shall be installed outside the building wall nearest to APCO service facilities or at a location designated by an APCO representative. Maintain the meter location such that it is out of the way of pedestrian and vehicular traffic and is easily accessible without damage to property or risk of personal injury. Schedule 80 conduit may be required for areas subject to obvious sources of damage.
6. Inhibitor compound shall be used on all aluminum wire terminations.
7. Install meter base such that the center of the meter base is not less than 4 feet and no more than 6 feet above finished grade.
8. For APCO's service lateral, customer shall install, at a minimum, 3-inch Schedule 40 PVC electrical conduit 30 inches below the finished grade and backfilled with suitable material, free of rock and debris. Lot must be within 6 inches of final grade. Any 90-degree bends must be long radius bends (minimum 36 inch radius). The installation of cable marking identification tape in the trench is recommended. Customer is to install, at a minimum, a ¼ inch nylon pull rope in the conduit. An APCO representative will specify the conduit size, trench location and trench depth.
9. Customer shall provide and APCO to install a 90-degree, Schedule 40 sweep elbow at padmount equipment or at terminal pole location. Customer to also provide weatherhead for installation on APCO's pole mounted service riser. APCO representative to specify size.
10. If the service installation is part of the APCO's West Virginia Inspection Program, an approved inspector is required to inspect the trench and conduit installation.
11. Line-side riser assembly to consist of an insulating bushing, locknut, threaded adapter, galvanized or schedule 40 PVC electrical conduit with bell end and clamp. All conduits shall be adequately secured with strapping.
12. Customer's service entrance conductors shall not exit out of the left side of the meter base.
13. Outside disconnects shall be required if the entrance cable is greater than 6 feet in length once it penetrates the exterior wall. The 6 feet is considered to be a guideline, however, the interior cable length should not exceed guideline by an unreasonable amount. If a disconnect is installed, four (4) wire entrance conductor shall be installed between disconnect and main panel.
14. Ground wire conductors shall not pass through or be connected within the meter base. Ground rods and ground connections shall be 6 inches below final grade. A total of two (2) 5/8 inch X 8 foot copper clad ground rods and UL approved clamps shall be utilized. On new installations, the ground conductor shall be continuous from the service panel or disconnect through the first ground rod and to the second ground rod. For existing services, the second ground rod can be added without replacing the original ground conductor as long as it is properly connected and bonded to the first ground rod. There shall be a minimum distance of 6 feet between ground rods and #4 copper is the minimum ground wire size.
15. On new installations and existing installations where alterations are made, an intersystem bonding termination shall be provided externally to enclosures at the service equipment. The grounding conductor shall be continuous through the intersystem bonding termination. A meter box ground clamp is not permitted.

These guidelines are for informational purposes only. Appalachian Power does not warrant that the information is in every respect accurate and makes no warranties regarding results from the usage of these guidelines. APCO shall have neither liability nor responsibility to any person or entity with respect to any loss or damage caused, or alleged to be caused, directly or indirectly by the information contained herein.