



Residential Service
Requirements



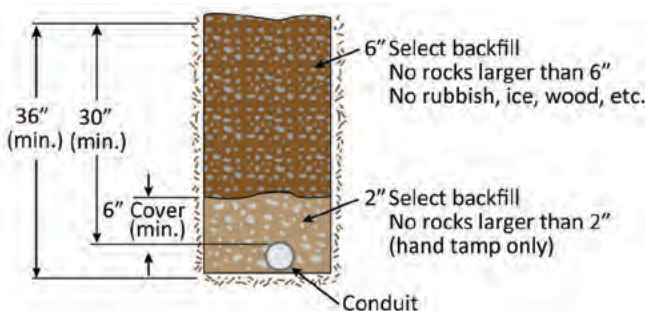
**IDAHO
POWER®**

Conduit and Trench Requirements

Trench and Backfill

Keep at least 30 inches but no more than 36 inches of cover above conduits at final grade. Contact Idaho Power if you cannot meet depth requirements.

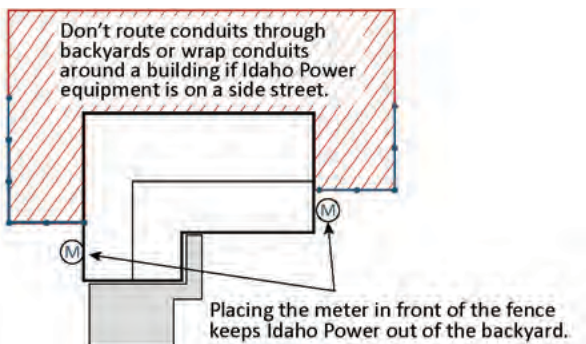
Fill the first 6 inches of cover with native soil and rocks no larger than 2 inches in diameter. Fill the rest of the trench with native soil and rocks no larger than 6 inches in diameter. Compact the soil and rocks.



Meter Location

Mount the meter base and conduit securely on the outside of an exterior wall. Ensure Idaho Power can reach the meter.

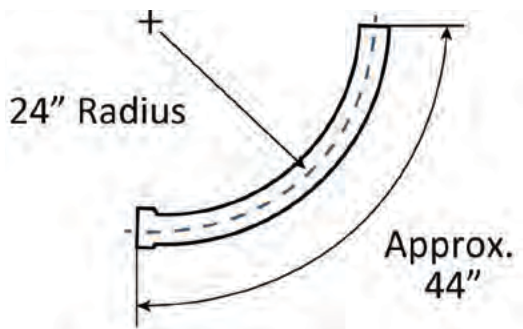
- Do not place the meter behind a fence.
- Do not put the meter at the back of a house.
- Do not cover or enclose the meter.
- Recessed meter bases are not allowed.



Conduit and Bends

Use only gray, schedule 40 or 80 PVC conduit and manufactured bends with a radius of at least 24 inches. Schedule 80 PVC is required above grade.

Do Not Bend Conduit.



For service points with self-contained meter bases that meet the requirements below, contact Idaho Power when the building is ready for permanent service.

- **Maximum Service Length:**

The horizontal distance between Idaho Power equipment and the meter base must not exceed 125 feet.

- **Conduit Bends:**

The total angle of bends below grade must not exceed 135 degrees, not including bends at the meter or in Idaho Power's equipment.

200-amp Service:

Use 2-inch conduit, bends, and fittings unless Idaho Power requires 3-inch conduit.

400-amp Service:

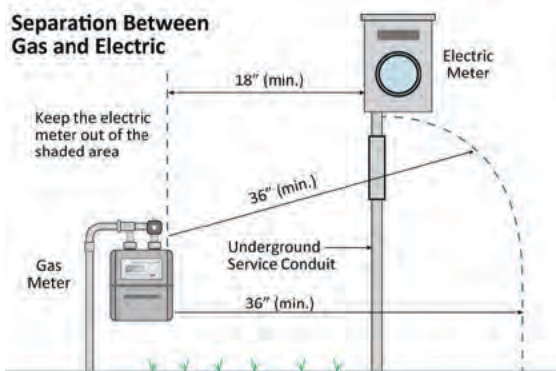
Use 3-inch conduit, bends, and fittings.

500-amp Service with Multiple Meters:

Contact Idaho Power for size and quantity of conduit(s) required, and maximum length.

Do:

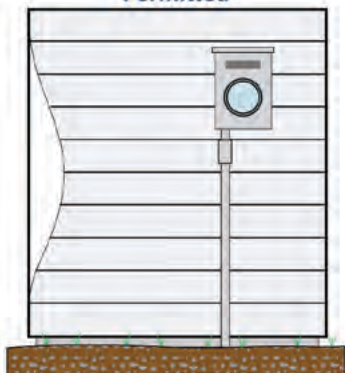
- Compact the trench, especially near the meter, where settling could pull the conduit down and damage the meter base. Compacting the trench is the builder's responsibility. The homeowner is responsible for settling.
- Make square conduit cuts and remove burrs from the inside and outside edges.
- Glue conduit joints. All joints must be completely seated and permanently glued with PVC cement.
- Keep dirt and debris out of the conduit.
- Provide an expansion coupler below the meter base for all one- and two-family homes.
- Separate trenches properly. Maintain 12-inch horizontal and vertical clearances between electrical conduit and all other utilities and structures.
- Separate meters properly. Electric and gas meters must be separated as shown here.
- Route service conduit in the most direct path between Idaho Power equipment and the meter. Keep the conduit at least 2 feet from property lines .



Don't:

- Heat the conduit in any way to shape it or to form bends in the run or riser.
- Leave open trenches unprotected. Any open trench must be adequately barricaded or protected to ensure public safety as required by local, state, or federal rules and regulations.

Permitted



DO Keep the riser straight

DON'T form the PVC conduit with heat or add extra bends

Not Permitted

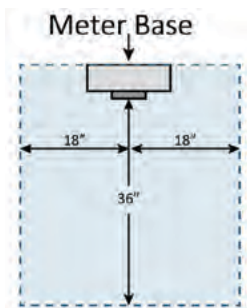


- Change conduit sizes in the run unless a 2- to 3-inch tapered adapter is needed at the conduit stub.
- Make long radius sweeps to avoid installing manufactured bends.
- Install conduit beneath buildings or other structures.

Meter Base Installation

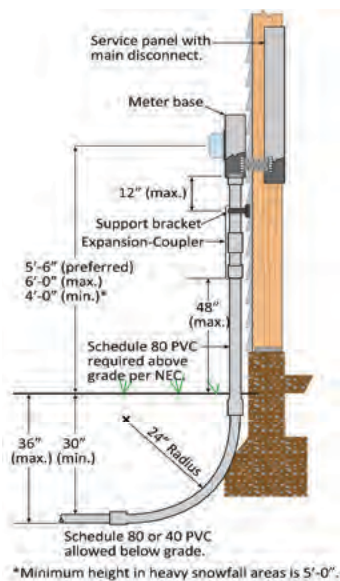
Use the diagrams below as guidance for residential meter base installation requirements. You must obtain a permit from the city or state, and the installation must pass an electrical inspection before Idaho Power will energize the service point.

A 36x36-inch area directly in front of the meter base must be clear of equipment, landscaping, and other obstacles that could interfere with access. Equipment not associated with the



meter or service point must be kept out of this space on both sides of the meter base.

This includes perpendicular walls and frames for inward-swinging doors. Frames for outward-swinging doors must be at least 36 inches from the edge of the meter base.



Visit idahopower.com to find more information on construction standards.

