

Program Explanation

This option is available for new 1-Ø residential underground electrical services and allows the customer to install the conduit for the service cable. When the installation is complete, inspected, and all requirements have been met, Idaho Power will then install the cable and meter.

Refer to *Requirements for Single Phase Underground Electric Service* on the Idaho Power website for additional information.

Call **Dig-Line** for locations of other utilities at least **2 business days** before digging.



**Know what's below.
Call before you dig.**

Conformance

Each installation is **subject to review and inspection** at any time by Idaho Power for conformance to these specifications.

If a non-conformance is discovered such as the conduit length, route, depth, etc., or if you are not ready when the installation crew arrives; the cable **will not be installed** and **you may be assessed a return trip charge** for each return trip. See the Cost Information document for more information. After the non-conformance is corrected, contact Idaho Power to reschedule the installation.



Contact Idaho Power if:

- ◆ This is your first time using this program.
- ◆ Your service does not conform with the design limitations.
- ◆ A conduit stub cannot be found.
- ◆ You require service from a pole.

Design Limitations

For self-contained meter bases that meet the following limitations, you do not need to contact Idaho Power until you are ready for your service to be installed.

◆ 125' maximum service length

This is the horizontal distance measured along the service route between Idaho Power's equipment and the meter.

◆ Up to 135° of conduit bends.

Don't include the bends at the meter or Idaho Power's equipment in the 135° limit.

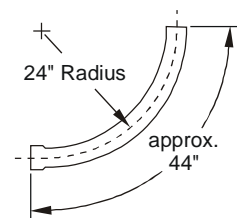
200 Amp Service. Use 2" gray, UL listed, Schedule 40 PVC conduit, bends and fittings unless Idaho Power specifically tells you to use 3".

400 Amp Service. Use 3" gray, UL listed, Schedule 40 PVC conduit, bends and fittings.

500 Amp Service with multiple meters. Contact Idaho Power for size and quantity of conduit(s) required.

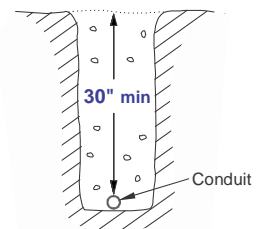
Additional Requirements

Conduit bends. Only use gray colored manufactured bends with a radius of at least 24" (See list of distributors starting on page 5). **Do not form your own bends!**



Trench and Backfill.

Minimum of 30" cover above conduit at final grade. No rocks larger than 2" or trash/rubbish in backfill material.



WARNING! Non-conformances may have to be corrected at the builder's expense.

Important Information

DO NOT heat the conduit in any way to shape it or to form bends.

DO NOT 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.

DO NOT change conduit sizes in the run after leaving the adapter at the conduit stub (if provided).

DO NOT install conduit beneath buildings or other structures.

DO compact the trench particularly near the meter where settling could pull the conduit down and damage the meter base. Although compacting the trench is the builder's responsibility, the homeowner is responsible for any future settling.

DO make square conduit cuts. Remove burrs from the inside and outside edges.

DO glue conduit joints. All joints must be completely seated and permanently glued with PVC cement.

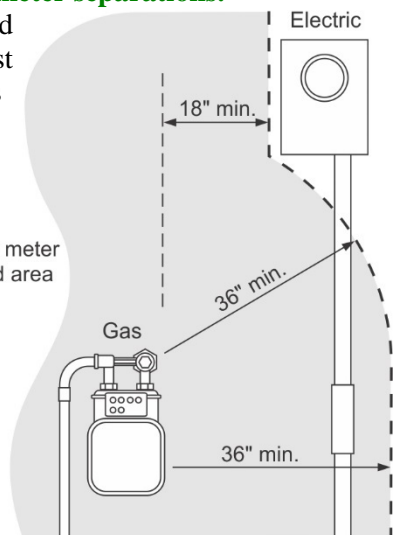
DO keep dirt and debris out of the conduit.

DO keep proper trench separations. Keep a 12" horizontal and vertical clearance between the electrical conduit and all other utilities and any structures.

DO keep proper meter separations.

The electric and gas meters must be separated as shown.

Keep the electric meter out of the shaded area



Ownership and Maintenance

Idaho Power assumes ownership of the builder-installed conduit when the electrical service cable is installed. However, the builder is responsible for the condition of the conduit and trench until the ownership of the home is transferred to the first buyer.

After the cable has been installed, **Idaho Power** will own and maintain:

- ◆ All conduit and fittings installed below the finished grade.
- ◆ The entire length of electric cable and the connections at Idaho Power's equipment.
- ◆ The meter.

NOTE. Idaho Power will connect the cable to the meter base but the homeowner will own and maintain the connections.

After the cable has been installed, the **builder** or **homeowner** will own and maintain:

- ◆ All conduit and fittings installed above the finished grade.
- ◆ The trench and any landscaping.
- ◆ The meter base and its connections to the electric cable.
- ◆ All wiring and electrical connections on the customer's side of the meter.

Be sure to connect to the proper equipment.

Refer to the *Definitions for Electrical Service* document on the Idaho Power website, or contact Idaho Power for clarification.

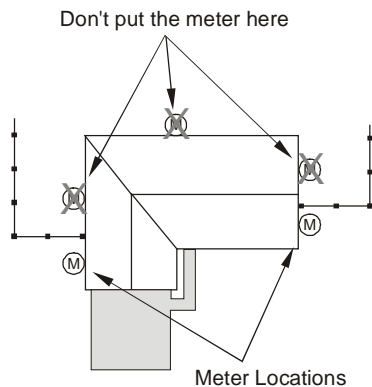
Meter Base Requirements

Refer to the *Meter Base Identification Guidelines* located on Idaho Power website for additional requirements. The meter base must accept 3" conduit if 3" conduit is used for the service.

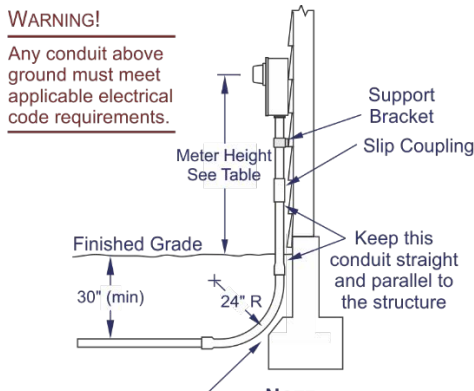
The meter base and conduit must be on the outside of an exterior structure wall and remain accessible to Idaho Power.

Exceptions must be approved in advance!

- ◆ Do not place the meter behind a fence.
- ◆ Do not put the meter at the back of the house.



The center of the meter must be between 4'-0" and 6'-0" above the finished grade or other accessible surface such as a deck or stairs. In service areas with heavy snow, the minimum height is increased to 5'-0".

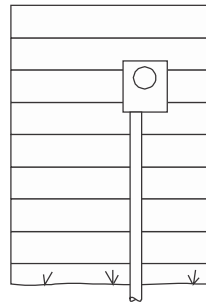


Suggestion. Block out a section of the footing for an easier installation.

NOTE: Slip coupling required for self-contained meter sockets on 1 family dwellings.

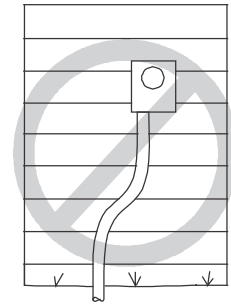
Meter Height (to center of meter)	
Preferred (all areas):	5'-6"
Maximum (all areas):	6'-0"
Minimum (most areas):	4'-0"
Minimum (heavy snow areas):	5'-0"

OK



DO Keep the riser straight

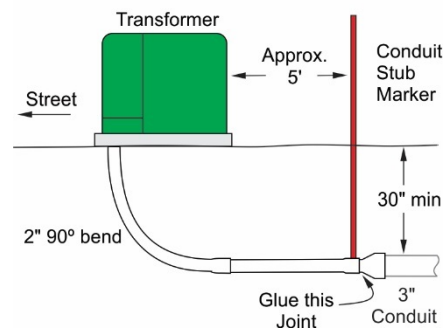
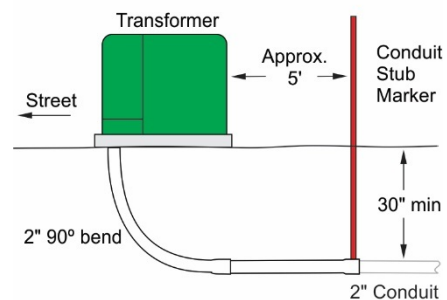
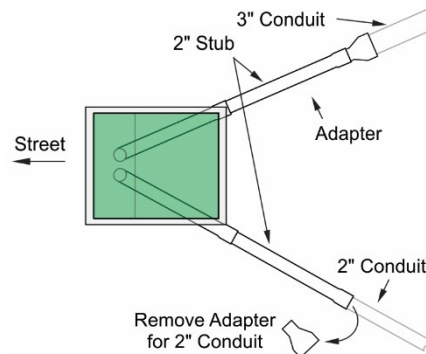
NOT PERMITTED



DO NOT form the PVC conduit with heat or add extra bends

Transformers

Most transformers have 2" or 3" conduit stubs as shown below. Expose the end of the stub and connect your new conduit. If the stub marker cannot be found, contact your Idaho Power representative. **DO NOT dig under a transformer!**



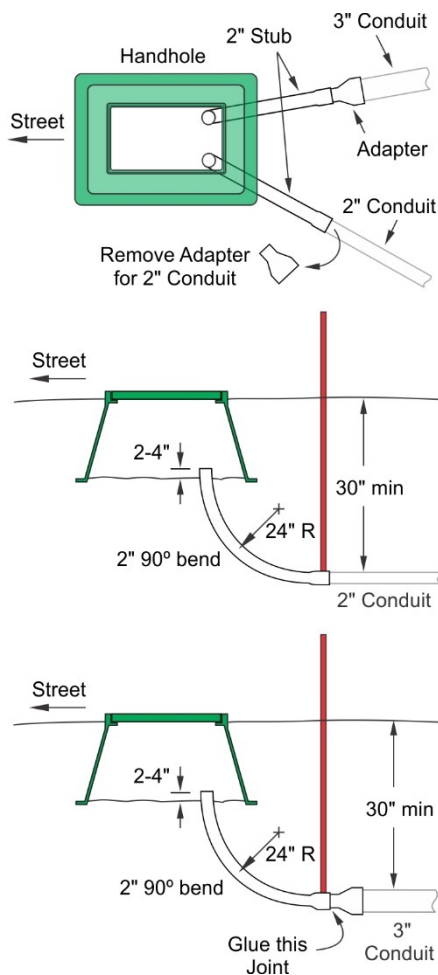
Handholes

Handholes in subdivisions may or may not come with a 90° bend stubbed out of them. If there is a stub, it will probably be a 2" bend with a 2" to 3" adapter attached. It may also be a 3" bend if your lot was intended to require a larger service cable and will not have an adapter.

Adapters are not glued to the stubs so that they can be easily removed if they are not needed. If you use the adapter, it is your responsibility to glue it to the stub. If you don't use the adapter, please leave it on top of your meter base so it can be reused.

If your handhole does not have a conduit stub:

- ◆ Plumb the 90° bend into the nearest corner of the handhole with the end 2" to 4" above the handhole floor.
- ◆ Plug or cap the open end of the conduit to keep out dirt and debris.



Special Requirements for Poles

Contact Idaho Power
if your service involves a pole.

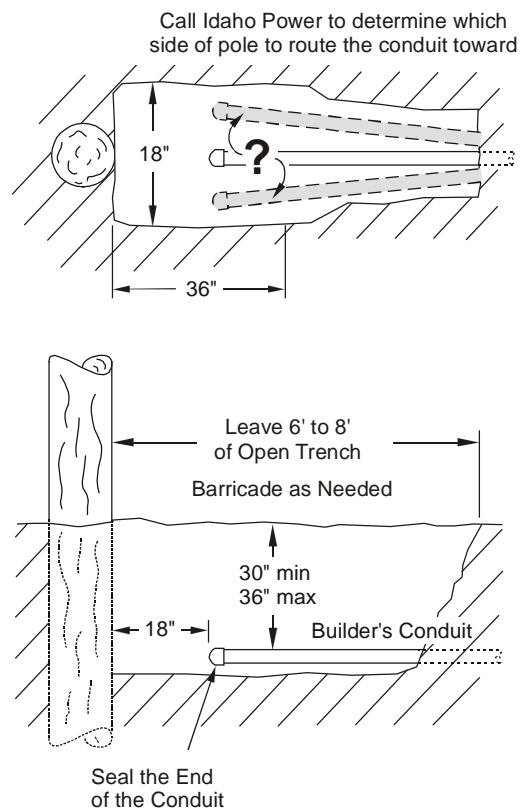
You **must meet** with an Idaho Power representative **prior to digging the trench** to determine:

1. If the pole is adequate for your service.
2. Which side of the pole you must route the conduit toward.

Trench all the way to the base of the pole. **If the pole becomes unstable, contact Idaho Power immediately!** When backfilling the trench, leave 6' to 8' open adjacent to the pole.

Any open trench must be adequately barricaded or protected for public safety.

After Idaho Power connects the pole riser and conduit, it is the builder's responsibility to backfill and compact any remaining trench.



Distributors of 2" and 3" Schedule 40 PVC 90° Bend w/ 24" Radius

Location	Distributor	Address	Phone	Notes
Blackfoot	Electrical Wholesale Supply Co.	560 Jensen Grove Dr.	(208) 542-4955	
Boise	Anixter Power Solutions	12070 W. Executive Dr.	(208) 362-7500	
	Columbia Electric Supply	8645 Westpark St.	(208) 322-1231	2" only
	Consolidated Electric Distribution	11589 W. Executive Dr.	(208) 377-4140	
	Electrical Wholesale Supply Co.	5185 W. Bethel St.	(208) 375-9900	
	Graybar	801 South 13 th St.	(208) 343-2594	2" only (3" special order)
	Grover's Pay & Pack	5730 W. Franklin Rd.	(208) 342-6576	
	Interstate Electric Supply	415 N. Phillippi St.	(208) 375-6880	
	Platt Electric Supply	5603 W. Bethel St.	(208) 367-5643	
	WESCO	5480 Irving St	(208) 362-7500	
Buhl	Gietzen Electric Inc.	125 9 th Ave. South	(208) 543-4610	
Burley	Ace Hardware	2256 Overland Ave.	(208) 678-5534	2" only
Caldwell	Electrical Wholesale Supply Co.	3409 Arthur St.	(208) 455-8400	
	Interstate Electric Supply	3705 Arthur St.	(208) 455-7760	36" radius on 3"
Eagle	Evan's Building Center	931 E. State St.	(208) 939-6435	2" only
Emmett	Mountain West Building Supply	2449 West Highway 52	(208) 365-7580	2" only
	Valley Pump & Equipment	608 N. Washington Ave.	(208) 365-2972	
Hailey	Consolidated Electric Distribution	1010 Business Park Dr.	(208) 485-8399	
	Platt Electric Supply	3990 Woodside Blvd.	(208) 788-3544	
Jerome	Consolidated Electric Distribution	220 W. Yakima # B	(208) 324-0281	36" radius on 3"
	Platt Electric Supply	2735 Tucker Ct.	(208) 324-4201	
Kuna	Kuna Lumber	175 School St.	(208) 922-3545	2" only
McCall	Consolidated Electric Distribution	102 Mission St.	(208) 634-7001	
	Interstate Electrical Supply	13788 ID-55	(208) 634-1366	36" radius on 3"
	May Hardware	809 N 3 rd St.	(208) 634-7665	2" only (on order)
Meridian	D&B Supply	1725 E. Fairview Ave.	(208) 887-0949	
	Interstate Electric Supply	760 N. Ralstin St.	(208) 287-3713	
	Platt Electric Supply	1300 E. Kalispell St.	(208) 855-0071	

Distributors of 2" and 3" Schedule 40 PVC 90° Bend w/ 24" Radius

Location	Distributor	Address	Phone	Notes
Mountain Home	P & C Plumbing and Electrical	950 Sunset Strip	(208) 587-2777	
Nampa	Consolidated Electric Distribution	1112 W. Hemingway Blvd.	(208) 467-2161	
	Grover's Pay & Pack	824 Caldwell Blvd.	(208) 466-8707	
	Interstate Electric Supply	1917 Industrial Rd.	(208) 466-8404	
	Platt Electric Supply	401 6 th St. North	(208) 461-3289	
Ontario	Interstate Electric Supply	287 SE 2 nd St.	(541) 889-9679	
Pocatello/ Chubbuck	D & S Electrical Supply Co.	363 W. Chubbuck Rd	(208) 237-8200	
	Electrical Wholesale Supply Co.	220 W. Maple St	(208) 233-1362	
	Platt Electric Supply	2815 Garrett Way Ste. A	(208) 233-2002	
	WESCO	2815 Garrett Way Ste. F	(208) 233-2003	
Salmon	Havemann Ace Hardware	720 S. Challis St.	(208) 756-3322	
Twin Falls	Colombia Electric Supply	455 4 th Ave W.	(208) 733-1033	36" radius on 3"
	Columbia Electric Supply	552 2900 East Rd.	(208) 733-6861	
	Electrical Wholesale	218 Blake St. South	(208) 734-2882	
	Grover's Pay & Pack	130 Eastland Dr. South	(208) 733-7304	
	Platt Electric Supply	294 2900 East Rd.	(208) 734-5413	