

CUSTOMER GUIDE - UNDERGROUND RESIDENTIAL SERVICES

The Canadian Electrical Code specifies that the supply end of a service shall be installed in a location satisfactory to both the Electrical Inspection Department and the Supply Authority (BC Hydro). The following summarizes BC Hydro requirements with respect to underground services and meters.

Installation Requirements (ES54 S1-01)

The contractor / customer is responsible for the supply and installation of conduit which meets the requirements of the Canadian Electrical Code and BC Hydro as follows:

1. The duct shall be gray 75 mm rigid DB2 PVC.
2. The duct shall have a minimum of 900 mm of cover.
3. The duct is to be installed between a 75 mm sand base and 75 mm sand cover.
4. If the total number of bends installed between BC Hydro's duct stub-off and the meter base exceeds a composite angle of 135 degrees, a pull box may be required.
5. The minimum radius of any conduit bend shall be 900 mm.
6. All underground service conduits must be drained at the building entrance as per the Canadian Electrical Code.
7. A 3 mm minimum (#8) polypropylene pull string shall be installed in the service conduit, tied securely at the meter based enclosure and to the string in the BC Hydro stub-off.
8. The duct trench shall be in a direct line of sight, as near as possible, from the meter base to the BC Hydro duct stub-off and shall be graded to the depth of that stub off point.

Service Location

The location of the service entrance shall be:

1. In a direct line of sight with BC Hydro's service duct stub off, and
2. On the wall of the building facing the power supply; or
3. Not further than 1 metre (3 feet) back, from that wall, on either side;

If you cannot meet the requirements of the preferred service location, please contact our Service Representative.

Service Length

The total allowable cable length, from the project property line to the meter base, is 30 metres. An extra length charge will apply on lengths exceeding 30 metres.

Meter Location

All residential meters up to 200 Amp shall be installed on an outside wall with clear and safe access at all times for BC Hydro representatives. Meters must be installed between 1.5m and 1.8m (5 feet and 6 feet) above finished grade. Meters shall not be installed in carports, garages, breezeways, or any part of the structure that may potentially be enclosed.

RESERVED IN-SERVICE DATE WILL NOT BE HONOURED UNLESS ALL INFORMATION IS COMPLETE. ANY DEFICIENCIES/DISCREPANCIES AT THE TIME OF CONNECTION MAY RESULT IN A RETURN TRIP CHARGE.



(Complete, sign and fax to 1-866-266-6366)

UNDERGROUND ELECTRICAL DUCT – INSTALLER’S DECLARATION

BC Hydro Reference No. _____
Name of Installer: _____ Phone No. _____
Service Address: _____
Lot No.: _____ City: _____ Postal Code _____
Installers Registration No. _____ Duct Permit No. _____

The Electrical Safety Regulations require that persons installing underground electrical raceway shall be registered as an Electrical Contractor and shall hold a valid certificate of qualification.

Note: Owner must apply for service.

Name of Owner: _____ Owner's Phone No.: _____

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<p style="text-align: center;">Site Plan</p> <p>Closest LPT # _____</p> <p>Please indicate:</p> <ul style="list-style-type: none">• North arrow• Streets, Lanes, Lot number• Building in relation to property lines• Closest BC Hydro service box / LPT.
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Service Requirements

- Meter base location is in accordance with the BC Hydro Guide for Underground Residential Services.
- Installer has confirmed the designated point of the electrical connection to the BC Hydro system. If from a service box then the lid is exposed and accessible.
120/240 volts, _____ amps Mainswitch
Electric Space Heat Installed: Yes _____, No _____
Total Load Connected _____ kW
Total Duct length _____ meters, measured from the BC hydro stub at the street to the meter base.
- The service address is affixed to the house or posted at driveway.
- Approved duct is installed in accordance with the BC Hydro Guide for Underground Residential Services.
- Customers duct is coupled to BC Hydro service duct stubbed off at street.
- The main switch is to be "locked open" after request for energization has been made.
- Approved pull string installed.

1. This declaration does not constitute an authorization for connection. An Electrical Safety Act – Contractor Authorization Form must be received before an order for connection is released.
2. The installation shall comply with the Canadian Electrical Code and the amending bulletins issued by the Electrical Safety Branch of British Columbia.
3. Governing statutes for said installation are available at BC Hydro or Electrical Inspection Branch.
4. Any discrepancy between the above required specifications and the actual installation must be approved in advance by a BC Hydro Service Representative

I, THE INSTALLER, HEREBY CERTIFY THAT THE SERVICE DUCT INSTALLATION HAS BEEN INSTALLED TO COMPLY WITH BC HYDRO REQUIREMENTS.

Signature

Date