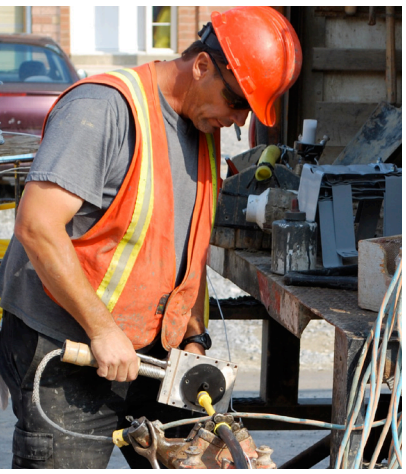
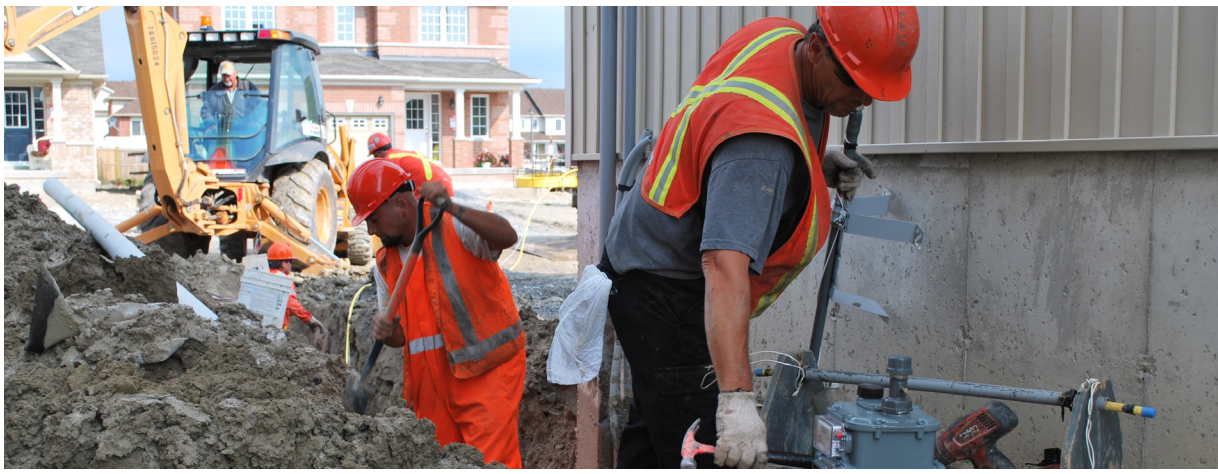
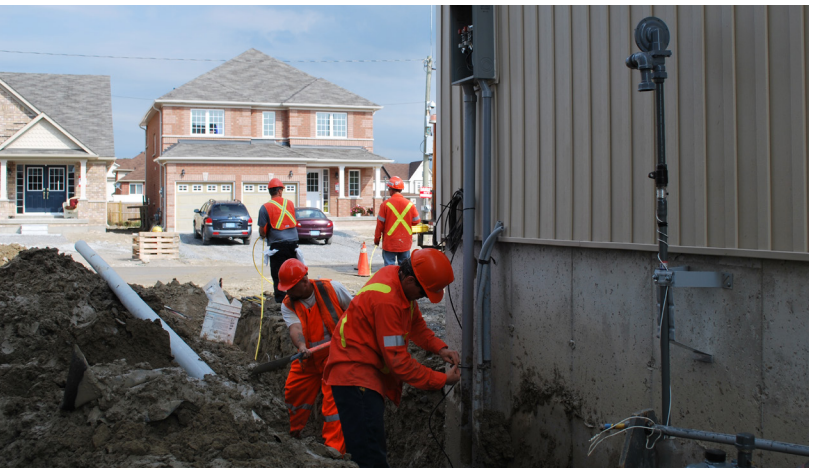
ENBRIDGE

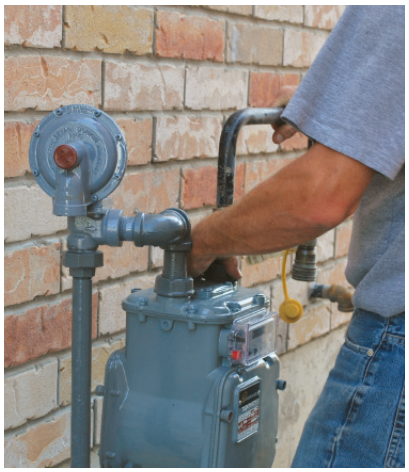




Builder's Technical Bulletin

Customer Pipe Sizing

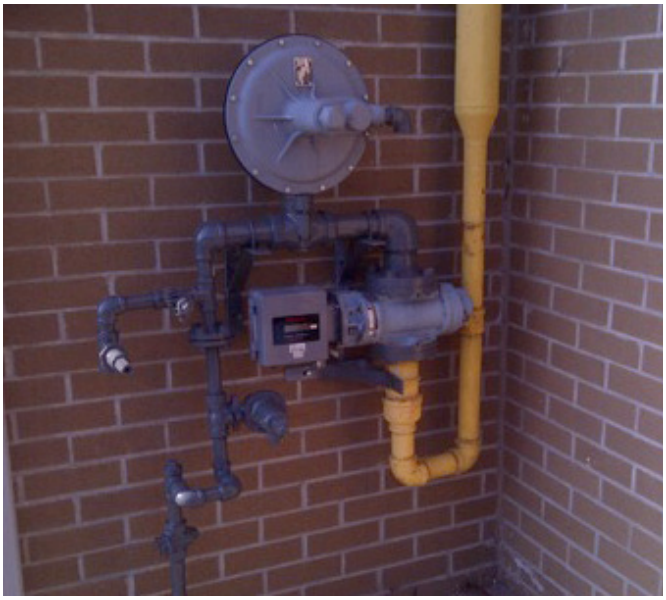




Customer Pipe Sizing

Enbridge assumes the responsibility to approve natural gas installations at brand new premises. Enbridge will not accept an installation that does not conform to the requirements in CSA B149.1 Natural Gas and Propane Installation Code (current version), any additional requirements made by the local authority having jurisdiction (TSSA in Ontario), the appliance manufacturer's certified installation instructions, or when a gas appliance is not operating safely.

The responsibility to ensure that there is appropriate gas pressure and volume to each gas appliance rests solely with the designer/installer. Improper specification of the equipment and/or an improper design of the supply piping by the designer/installer can lead to suboptimal performance of appliances and possible safety hazards. Enbridge will install a meter that will provide an appropriate pressure and volume of gas to meet the requirements of each customer's gas-fired equipment, as specified by the designer/installer, but will not be responsible for deficiencies in pressure and volume since the assumption is that the designer/installer has designed the system with appropriate capacity.



Installations must be designed:

- Using sound engineering principles and/or the design method that is specified in CSA B149.1 Natural Gas and Propane Installation Code (version in effect at time of design), such that the allowable pressure drop is not exceeded and appropriate gas volume will be delivered to each gas appliance when all are operating simultaneously or to a subset of appliances using an appropriate load diversity factor.
- Such that there is an assumption of a number of additional fittings and smaller diameter piping between Enbridge's meter set and the point where the pipe diameter may increase. The designer/installer should anticipate that there may be a need to adjust the piping configuration near Enbridge's meter and so should include in the design an assumption of additional fittings.

Regardless of whether the application is residential, commercial, or industrial:

- A pipe diameter increase should be as close as possible to outlet of the meter
- Avoid reducing the pipe diameter from the size of the meter outlet and then increasing the diameter further downstream
- Branch the system only after the pipe diameter has been increased; or upstream of a decrease in pipe diameter
- Include fittings or branched runs for future system expansion that are a minimum of the same size as the largest pipe diameter from where it branches

Questions can be directed to Enbridge at **1-877-ENBRIDGE (1-877-362-7434)**. The question will be directed to a technical representative who will return your call.

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2013-03