



## Gas Piping Installed in the ground Under a Building

### NATURAL GAS ONLY – NOT APPROVED FOR LPG

**A GAS PIPE MAY BE INSTALLED IN THE GROUND UNDER A BUILDING AS FOLLOWS:**

**(The definition of building shall be as per the Uniform Plumbing Code definition which states: “A structure built, erected, and framed of component structural parts designed for the housing, shelter, enclosure, or support of persons, animals, or property of any kind.”)**

**ALL METHODS FOR PROVIDING PIPING UNDER A BUILDING SLAB SHALL FIRST BE SUBMITTED TO THE CITY OF GLENDALE FOR REVIEW.**

- 1) This method shall only be allowed where structural conditions preclude the installation of gas piping above grade.
- 2) The gas piping material shall be Corrugated Stainless Steel Tubing (CSST), rigid steel pipe (as specified in the current adopted Plumbing Code, **(This pipe shall be considered to be underground and shall have a protective coating that is factory applied. Galvanization shall not be considered as sufficient to comply with factory applied protective coating. The fittings involved with the underground installation of factory coated pipe in sleeves shall be galvanized or wrapped in accordance with IAPMO Installation Standard 13-2003. Any defect or area of the factory coated pipe that exposes the base material shall also be wrapped in accordance with IAPMO Installation Standard 13-2003.)** or other approved material.
- 3) **THE SLEEVE MATERIAL SHALL BE SCHEDULE 40 ABS OR PVC OR OTHER MATERIAL APPROVED BY THE CITY OF GLENDALE**

The size of the sleeve shall be as follows:

CSST SIZE	SLEEVE SIZE	RIGID STEEL PIPE SIZE	SLEEVE SIZE
1/2	2	1/2	2
3/4	2	3/4	2
1	2	1	2
1-1/4	3	1-1/4	3
1-1/2	3	1-1/2	4
2	4	2	4
		2-1/2	6
		3	6

**Other materials or sizes shall be submitted to the City of Glendale and reviewed on a case by case basis.**

- 4) The sleeve shall terminate a minimum of 6 inches above the finished floor of the building interior and a minimum of 12 inches above the finished grade at the building exterior. All fittings associated with the sleeve shall be long radius fittings such as combinations or sweeps when utilizing CSST and shall be straight tee fittings when using rigid piping.
- 5) **The sleeve shall be sealed on each end by the use of gas-tight couplings.** The exterior location of the sleeve shall be provided with a minimum 1 inch vent opening which terminates looking downward at least 12 inches above the finished grade.
- 6) The portion of the sleeve outside the structure shall be secured to the structure it serves. The sleeve shall withstand an air pressure test of not less than 5 psi and shall have no perceptible drop in pressure during the 15-minute test period.
- 7) There shall be no horizontal branches installed below the floor. Where the conduit and encased pipe terminate within a building, they shall be accessible.
- 8) For CSST installations the shut off valve for the piece of equipment or appliance shall be secured in place so as to not impart undue stress or strain on the CSST when operated.
- 9) Variations of these procedures may be considered when, in the opinion of the City of Glendale, the intent of these procedures is met.

