

**City of Plymouth  
Protective Inspection Division  
3400 Plymouth Boulevard  
Plymouth MN 55447**

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## **INSTALLATION OF UNDERGROUND FUEL STORAGE TANKS**

### **General Requirements:**

The installation of underground fuel storage tanks , piping, cover of tank and piping, corrosion protection and associated systems shall comply with the 2007 Minnesota State Fire Code (MSFC), Chapters 22 and 34; 2003 NFPA Standard 30; and, the Minnesota Pollution Control Agency Rules for the storage of flammable and combustible liquids.

Listed below are the general requirements from the (MSFC) and the City of Plymouth for the installation of underground flammable and combustible liquid storage tanks. This is not a complete list, and additional provisions specific to your installation may also apply. A permit is required by the City prior to commencement of work.

- Submittal of a signed, completed storage tank permit application form, including a detailed drawn to scale site plan. The permit fee is \$75 per tank.
- Supervision of the installation by a state licensed storage tank contractor.
- Submittal of manufacturer's specification sheets on tanks, piping and dispensing equipment.
- All tanks, piping, appurtenances and all associated equipment shall be listed and approved for flammable and combustible liquids.
- Tanks shall not be placed within 3 feet of the nearest wall of a basement, pit, cellar or lot line.
- Underground fuel storage tanks shall be located with respect to existing foundations and supports such that the loads carried by them cannot be transmitted to the tank.
- A minimum of 1 foot, shell to shell, shall be maintained between underground tanks.
- Underground storage tanks shall be set on firm foundations and surrounded with at least 6 inches of non-corrosive inert material such as clean sand.
- Where a tank is subject to uplift due to buoyancy because of high water table, uplift protection shall be provided in accordance with NFPA Standard 30, 2003 Edition, Chapter 4.3.3.5.
- Underground storage tanks shall be provided with corrosion protection in accordance with NFPA Standard 30, 2003 Edition, Chapter 4.2.6.1.1.

### **Inspections Required:**

Note: Tests and inspections must be pre-tested prior to calling for an inspection. The City stamped "Approved" plan and survey must be kept on the job site until the final inspection has been made.

Call **763 509 5449** between 8:00 a.m. to 4:30 p.m. to arrange for an inspection. Please provide the permit number with your request. **Allow 24 hours for all inspections.**

Pressure test of tank. Tank and interstitial space tests shall be performed per the tank manufacturer's specifications, and in accordance with the provisions set forth in the 2007 Minnesota State Fire Code and NFPA Chapter 30. Do not cover tank until City fire inspection approval has been granted.

Tank hold-down inspection.

Piping pressure test 150% maximum anticipated pressure not less than 5 PSIG.

A visual soap test of all joints, seams, and connections. All pipe tests shall be in accordance with the pipe manufacturer's specifications. Do not cover any piping until City fire inspection approval has been granted.

Provide documentation of all tank tightness tests.

Tests of product delivery system.

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