



CITY OF BLAINE
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UNDERGROUND INSTALLATION OF FUEL STORAGE TANKS

General Requirements

The installation of underground fuel storage tanks (UST), piping, cover of tank and piping, corrosion protection and associated systems shall comply with the Minnesota State Fire Code (MSFC) Chapters 22 and 34, NFPA standards and Environmental Protection Agency Rules.

Listed below are general requirements from the MSFC and the City of Blaine provisions for installation of underground storage tanks. This is not a complete list and additional provisions specific to your installation will be required. Approval is required before beginning any work.

- Submittal of a fire permit application and a detailed, scaled site plan. The fee is \$100 per tank.
- Supervision of the installation by a State licensed storage tank contractor.
- Provide specification sheets on tanks, piping and dispensing equipment.
- Tanks, piping appurtenances and all associated equipment shall be listed and approved.
- Tanks shall not be placed within 3 feet of the nearest wall of a basement, pit, cellar or lot line.
- UST's 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 a high water table, uplift protection shall be provided in accordance with NFPA Standard 30: 4.3.3.5 - 4.3.3.5.2
- UST's shall be provided with corrosion protection in accordance with NFPA 30: 4.2.6 - 4.2.6.2

Additional Requirements for Motor Vehicle Dispensing

- Submittal of a fire permit application and a detailed, scaled site plan. The fee is \$100 per tank.
- Dispensing devices shall be located: 1) 10 feet or more from property lines, 2) 20 feet from fixed sources of ignition, 3) 10 feet or more from buildings having combustible exterior wall surfaces or buildings having noncombustible exterior wall surfaces that are not part of a one-hour fire-resistance rated assembly or buildings having combustible overhangs. **Exception:** Canopies constructed in accordance with the International Building Code.

Underground Storage Tank

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- Unattended Self-service stations are allowed when, as a condition of approval, the owner or operator: 1) is accountable for daily site visits and regular equipment inspection and maintenance, 2) posts dispenser operating instructions, 3) posts emergency procedure instructions, 4) provides a telephone not requiring a coin to operate to notify the fire department in case of an emergency and 5) dispensing equipment is programmed to limit uninterrupted fuel delivery to 25 gallons **or** the amount of fuel being dispensed shall be limited in quantity by a preprogrammed card as approved.
- Signs prohibiting smoking, dispensing into unapproved containers, and requiring vehicle engines to be stopped during fueling shall be conspicuously posted. When open to the public, a sign stating minimum age to dispense fuel is 16 years old.
- An emergency shut off device is required within 20 – 100 feet from dispensers.
- Pumps shall be substantially anchored and protected from physical damage by mounting on a concrete island 6 inches or more in height.

Inspections Required

Note: Tests and inspections must be pre-tested prior to calling for an inspection. If any portion of the system fails a test/inspection, a re-inspection must be scheduled. Re-inspection fee is \$50.00.

- Pre-excavation inspection.
- Pressure test of tank
- Tank hold-down inspection.
- Piping pressure test NFPA 30: 5.6
- A visual soap test of all joints, seams and connections
- Provide documentation of all tank tightness tests. NFPA 30: 4.4 – 4.4.3