



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 23 and 57, NFPA standards, and Environmental Protection Agency Rules.

Listed below are general requirements from the MSFC and City of Ramsey provisions for installing underground storage tanks. This is not a complete list; 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 \$100.00 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.
- USTs shall be located with respect to existing foundations and supports such that the loads they carry 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: 23.14
- USTs shall be provided with corrosion protection in accordance with NFPA 30: 23.3.5

Additional Requirements for Motor Vehicle Dispensing

- 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.*

- 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 and requires manual action to resume delivery.

Additional Requirements for Motor Vehicle Dispensing continued

- 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 anyone under licensed age is prohibited from using the pump.
- An emergency shut-off device is required within 20 to 100 feet of 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.
- The piping pressure test is 150 percent of the maximum anticipated pressure, not less than 5 PSIG. A visual soap test of all joints, seams, and connections
- Provide documentation all underground tank(s) meet requirements per NFPA 30 Chapter 21.