



Chanhassen Fire Department

FIRE PREVENTION BUREAU

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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) Chapter 23 and NFPA 30A Standards and Environmental Protection Agency Rules.

Listed below are general requirements from the MSFC and the City of Chanhassen 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. Permit fees are based on Chanhassen City Ordinance Article II, Section 4-30 or call 952-227-1180.

-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.

-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.

-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.

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 building 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 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

-Pressure test of tank(s)

-Tank hold-down inspection.

-Piping pressure test NFPA 30A. See S.4.

-A visual soap test of all joints, seams and connections

-Provide documentation of all tank tightness tests.

Revision 4/17/17