



## **Medicine Hat Fire Service**

Fire Prevention Branch  
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## **Underground Flammable & Combustible Liquid Storage Tanks (UST)**

### **Information Required on Submitted Drawings**

One set of drawings stamped and signed by an engineer licensed to practice in the Province of Alberta – Alberta Fire Code Division “C” 2.2.3.1. for all tanks over 230 litres; inclusive of all piping and transfers systems requiring excavation. Unless otherwise specified all references are to the Alberta Fire Code 2006.

### **The following should form all or part of the submitted drawings**

- Overall Site Plan Showing the site relative to adjacent streets and buildings.
- Site Finished Grades Indicating a spill is designed to stay on the property.
- Mechanical Site Plan Showing underground drainage (catch basins, piping, oil/water separator).
- Electrical Site Plan Emergency shutdown, horns, strobes, communication devices, etc.
- Piping System Underground layout, sumps and associated details.
- Tank Sections & Details Distances, tank size, product, supporting slab, collision protection, vent rack, static protection, spill containment

### **General Information to be included on the drawings or attached documents;**

1. List of applicable codes and standards, product and tank size.
2. Dimensions, distances to tanks, buildings, property lines, dispensers.
3. Site classification – card lock, self-serve, full serve.
4. Emergency shutoff, communication devices.

**Note: All drawings need to be complete & submitted no later than 30 days prior to the intended project start date. This will ensure there are no delays.**

**Detailed Check Sheet for what the Medicine Hat Fire Service requires on all drawings.**

- |   |              |
|---|--------------|
| <input type="checkbox"/> Site sensitivity classification  | AFC 4.3.8.1. |
| <input type="checkbox"/> Distance to property lines, buildings, propane tanks, adjacent tanks.            | AFC 4.3.8.1  |
| <input type="checkbox"/> Anchorage of tanks   | AFC 4.3.8.8  |
| <input type="checkbox"/> Ground cover over tanks  | AFC 4.3.8.2. |
| <input type="checkbox"/> Containment liner installation (if Applicable)                                   | AFC 4.3.7.2. |
| <input type="checkbox"/> Applicable signage (No Smoking, Ignition Off)                                    | AFC 4.6.8.8. |
| <input type="checkbox"/> Statement that tank is installed in accordance with manufacturer's instructions. | AFC 4.3.1.9. |
| <input type="checkbox"/> Piping material & construction standard  | AFC 4.5.2.1. |
| <input type="checkbox"/> Tank & dispenser sump details (ULC standard, shear detail, etc.).                | AFC 4.6.3.2. |
| <input type="checkbox"/> Leakage detection of storage tanks and piping systems                            | AFC 4.4.1.   |
| <input type="checkbox"/> Monitoring wells/piezometer location   | AFC 4.4.4.1. |
| <input type="checkbox"/> Shut off devices   | AFC 4.6.4.   |
| <input type="checkbox"/> Collision protection   | AFC 4.6.3.4. |
| <input type="checkbox"/> Venting piping and rack location   | AFC 4.3.5.3. |
| <input type="checkbox"/> Location and arrangement of piping   | AFC 4.5.6.   |
| <input type="checkbox"/> Spill control and drainage systems   | AFC 4.1.6.1. |
| <input type="checkbox"/> Access for firefighting  | AFC 4.1.5.6. |
| <input type="checkbox"/> Self service outlets   | AFC 4.6.8.2. |
| <input type="checkbox"/> Card or key activated dispensers   | AFC 4.6.8.4. |
| <input type="checkbox"/> Dispensing systems   | AFC 4.6.3    |
| <input type="checkbox"/> Corrosion protection of underground steel storage tanks                          | AFC 4.3.9    |

- Portable extinguishers at fuel dispensing stations AFC 4.6.9.1.
- Overfill and spill containment, under dispenser sumps AFC 4.3.8.1.
- Oil/water separator requirements are administered through the City of Medicine Hat Development & Engineering Department.

**Once Complete all documentation needs to be submitted to the Medicine Hat Fire Service for Review. Failure to include items on this checklist may result in delays to the permit process.**

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