



Waste-oil Storage Tanks (WST) Information Required on Submitted Drawings

<u>Drawings</u> – Three (3) sets of drawings stamped and signed by an engineer licensed to practice in the Province of Alberta – National Fire Code - Alberta Edition Division "C" 2.2.3.1., for all tanks over 230 liters; inclusive of all piping, vents and transfer systems. Engineered drawings may not be required if the plans, drawings and specifications of the system are submitted for review in a form acceptable to the Authority Having Jurisdiction. This exception applies only to individual aboveground storage tanks with an individual capacity of not more than 8,000 liters and their aggregate capacity does not exceed 20,000 liters with all parts of the system visible for inspection.

Unless otherwise specified all references are to the National Fire Code - Alberta Edition (NFC-AE) Division "B".

The following drawings shall be submitted for review:

- 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)
- Tank Sections & Details distances, tank specifications, product, supportingslab, collision protection, vent, 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. Oil/water separator is required at new and substantially renovated sites where the stormwater management system is excavated or upgraded.

Detail Check Sheet:

0	Drawings to have an engineer signed stamp	NFC-AE-Div. "C" 2.2.3.1.	
0	Distance to property lines, buildings, propane tanks, adjacent	NFC-AE - 4.3.2.1. NFC-AE - 4.3.2.2. NFC-AE - 4.3.2.3. NFC-AE - 4.3.7.4.	
0	Size, contents, and material of the tanks (ULC standard)	NFC-AE - 4.3.1.2.	
0	Collision protection (type and spacing)	NFC-AE – 4.3.3.4.	
0	Vent location and height (including emergency vents)	NFC-AE – 4.3.5.2.	
0	Piping & transfer systems, schematic drawing, Listing the standard piping is designed to meet, C/w with identification as per CPPI standards Spill control when filling and removing product	NFC-AE -4.5.2.1. NFC-AE -4.5.4.1. NFC-AE -4.3.1.7. NFC-AE -4.1.6.1. NFC-AE -4.3.7.1.	
0	Fire department access	NFC-AE – 4.3.2.4.	

0	Secondary containment to be used (all applicable dike details)	NFC-AE - 4.3.7.
0	Tank support detail for the tank (see special note below)	NFC-AE – 4.3.3.1.
0	Overfill protection device or warming system	NFC-AE – 4.3.1.8.
0	Bonding and grounding details (inside buildings)	NFC-AE – 4.3.13.12.
0	Valve details c/w identification asper CPPI standards	NFC-AE -4.5.7.
		NFC-AE –4.5.7.6.
0	Connections for filling and emptying	NFC-AE – 4.1.8.3.
	(removable suction tube with leak tight fittings)	
0	Location of portable extinguishers	NFC-AE – 4.5.10.4.
0	Applicable placards and signage	NFC-AE – 4.3.1.7.

Special Note: Tank Support Detail – NFC-AE – Subsection 4.3.3.

The acceptable support for an aboveground tank is designed (by an engineer) to carry the load of the tank when full.

Exception: A ground or gravel support base is acceptable in a temporary situation.

Email: Tanks@Calgary.ca

<u>Temporary to the code is less than one year</u>. NFC-AE Division "C" 2.2.5.1. This is to be submitted with a letter outlining the temporary dates and specifying the date the tank is to be removed from the site.

The installation, alteration and maintenance of any flammable and combustible liquid storage tank system shall comply with the requirements as outlined in the National Fire Code - Alberta Edition and the National Building Code and any referenced documents within these codes.

Submit drawings to; Calgary Fire Department Fire Inspections & Investigations Technical Services

4144 – 11th Street SE

Calgary, AB T2G

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