



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.6772
 propane@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
Propane Storage and Handling Regulation

This Level 1 RSMP applies to:

- a facility with a total propane storage capacity of 5,000 USWG or less; or
- a facility with a fixed propane storage capacity of exactly 5,000 USWG and no more than 500 USWG of portable propane storage capacity on site.

<p style="text-align: center; font-weight: bold; font-size: small;">Failure to fully complete this form may result in rejection. Making a false statement may result in a fine or prosecution under the <i>Technical Standards and Safety Act</i></p> <p>Licence Number <input style="width: 200px;" type="text" value="76639632"/></p> <p style="font-size: x-small;">Check applicable type of propane operations.</p> <p> <input checked="" type="checkbox"/> Cylinder <input type="checkbox"/> Motor Fill <input type="checkbox"/> Filling Plant <input type="checkbox"/> Card/Keylock </p> <p style="font-size: x-small;">Submit along with this completed application a Facility Site Plan and a Map of the Surrounding Area.</p>	<p style="text-align: center; font-weight: bold; font-size: small;">For Office Use Only</p> <div style="border: 1px solid black; height: 80px; width: 100%;"></div>
--	---

SECTION A: GENERAL INFORMATION

The Undersigned applies to TSSA for a review for an RSMP under Ontario's *Technical Standards and Safety Act*, Propane Storage and Handling Regulation.

A	Company Name Costco Wholesale Canada Limited	Corporation No. 1924754
	Operator Name (if different from above)	
	Telephone No. 1-800-463-3763	E-mail andy.mcdonald@costco.com
B	Street No. 45940	Street Name / 911 Number / Address, if applicable Horseshoe Drive, Suite 150
	Town / City or Township / County Sterling	Province VA USA
		Postal Code 20156
	Mailing address if different from above.	
C	Street No. 415	Street Name / 911 Number / Address, if applicable West Hunt Club Road
	Town / City or Township / County Ottawa	Province ON
		Postal Code K2E 1C5

Information on Container Refill Centre or Filling Plant		
Location of facility.		
D	Street No. 1465	Street Name / 911 Number / Address, if applicable Kingsway Road
	Town / City or Township / County Sudbury	Nearest Major Intersection Kingsway Road and Falconbridge Road
		Province ON
		Postal Code P3B 2E7

Name of Licence Holder Robert Moyer, Manager of Propane Operations on behalf of Costco Wholesale Canada Ltd	
Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT) Robert Moyer, Manager of Propane Operations	ROT type 100 OR
Municipality (or municipalities if the facility or its hazard distance touches multiple borders) City of Sudbury	
Hours of operation: <div style="background-color: black; width: 400px; height: 50px; margin-top: 5px;"></div>	

This document is valid until the next licence renewal date. You are required by law to notify TSSA of any change of information.

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Print name	Signature	Date (dd-mm-yyyy)
Name of Licence Holder <u>Robert Moyer on behalf of Costco Wholesale Canada Limited</u>		7/15/18
Name of Senior Management person as defined in the Regulation holding the Record of Training <u>Robert Moyer</u>		



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propane@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION A: GENERAL INFORMATION (cont'd)

Indicate the year the facility was established. _____ Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment. _____

Identify the psig rating and serial number for each fixed propane storage tank on site.

	PSIG	Serial Number
Tank 1:	250 PSIG	1451-18
Tank 2:	_____	_____
Tank 3:	_____	_____

Enter capacity of propane in USWG, fixed, portable, and mobile, and provide detailed inventory that includes the number of tank/vessel for each type (fixed, portable, and mobile) and the capacity of each tank/vessel, on a separate document.

Fixed: 1999 USWG Portable: 72 - 20lb Cylinders Mobile: _____

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) J+B Engineering Inc (c/o Fereshte Joghataei)		Official Title Project Manager	
Signature 		Telephone No. 416-229-2636	Date (dd-mmm-yyyy) 19-07-2018



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propaneLICensing@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION A: GENERAL INFORMATION (cont'd)
 Activity Information

Name of Propane Supplier(s) Superior General Partner o/a Superior Propane		For Office Use - Party No.	
Street No. 6750	Street Name / 911 Number / Address, if applicable Century Avenue, Suite 400		
Town / City or Township / Country City of Mississauga		Province ON	Postal Code L5N 2V8
Telephone No. 705-738-7033	Fax No. 613-822-5221	Contact Name Ron Taylor - Field Operations Manager	
E-mail TaylorR@superiorpropane.com			

Name of Propane Transporter. If same as above, please check box. <input type="checkbox"/>		For Office Use - Party No.	
Superior Propane			
Street No. 2475	Street Name / 911 Number / Address, if applicable Maley Drive		
Town / City or Township / Country Sudbury		Province ON	Postal Code P3A4R7
Telephone No. 705-677-4840	Fax No.	Contact Name Ian Lalande	
E-mail lalandei@superiorpropane.com			

Off-site Cylinder and/or Mobile Storage	Capacity stored off-site, in USWG	For Office Use - Party No.	
Street No.	Street Name / 911 Number / Address, if applicable		
Town / City or Township / Country		Province	Postal Code
Telephone No.	Fax No.	Contact Name	

Note: Customer storage is not considered off-site storage.

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) J+B Engineering Inc. (c/o: Fereshte Joghataei)	Official Title Project Manager
Signature 	Telephone No. 416-229-2636
	Date (dd-mmm-yyyy) 19-07-2018



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propaneicensing@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN

The licence holder will complete Section B in consultation with the local Fire Services.

Description of the maximum volume, types and storage location of other hazardous materials on site, if any.

Approximately 1000 gallons of motor oil (4 drums @ 250 gallons each) will be stored in the oil room within the Tire Centre.

Description of fire and emergency equipment indicated on facility site map.

1. Fire extinguisher are located at: a) the inside pillar of the canopy by the propane filling station; b) inside the Tire Centre; and, c) inside the tire sales
2. Emergency stop push buttons are located at: a) on the propane filling station pedestal; b) on the wall of the tire centre and, c) inside the tire centre. The emergency stop push buttons will shut down the pump and close a solenoid valve upstream of the hoses.


List of fire protection controls (e.g., fire detection systems, fire notification systems, alarm systems, automatic shut off devices, fusible links, etc.) and describe their function, use and operation.

1. ISC Flow Valve: Closed by fusible link melting in fire scenario, or by closing door of pump enclosure. This will stop the flow from the tank.
2. System contains 3 leak detectors (2 scale units; 1 pump enclosure) which trigger system shutdown @ 40% LEL (cuts all power except 24 VDC)
3. E-stops: 1 - propane pedestal, 1 - on wall outside tire centre, 1 - inside tire centre. The E-Stops cuts all except 24 DC; will shut down pump and closes the solenoid valves to stop flow.
4. Leak Detection System triggers an audible alarm
5. A Fire Sprinkler system has been installed inside the warehouse.

Maintenance and testing schedule for fire protection controls and devices.

The Fire Extinguishers will be replaced as per manufacturer's recommendations. The gas detection/auto-shutdown/auto alarm system will be maintained and tested every 6 months by a certified service technician. All other equipment - e.g. pumps, valves etc. will be maintained/tested by Superior Propane according to the requirements in the Superior Propane Maintenance Standard. According to this Standard, ISC valves will be tested every 6 months; pumps will be maintained every 3 months. Fusible links will be inspected every 6 months. Extinguisher will be maintained, inspected and tested per NFPA 10.

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) J+B Engineering Inc (c/o Fereshle Joghataei)	Official Title Project Manager
Signature 	Telephone No. 416-229-2636
	Date (dd-mmm-yyyy) A-07-2018



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propaneLICensing@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

1. Contacts for Emergency Response

1. Facility Contact Personnel - Key Contact		5. Facility 24-Hour Contact Person	
Name <u>Robert Moyer</u>	For Office Use - Party No.	Name <u>Andy McDonald</u>	For Office Use - Party No.
Official Title <u>Manager of Propane Operations</u>		Official Title <u>Assistant Director, Operations, Tire Centre - Canada</u>	
Telephone No. <u>(703) 626-8398</u>	Fax No. <u>(703) 626-8398</u>	Cell No. <u>(613) 221-6113</u>	Fax No. <u>N/A</u>
E-mail <u>(703) 626-8398</u>		E-mail <u>andy.mcdonald@costco.com</u>	
Role and responsibilities in emergency Identify the person(s) authorized to set emergency procedures in motion and include persons authorized to take charge of the premises.		Role and responsibilities in emergency Identify the person(s) authorized to set emergency procedures in motion and include persons authorized to take charge of the premises.	
2. Facility Contact Personnel - Alternate Contact		6. Name of Facility Manager	
Name <u>Andy McDonald</u>	For Office Use - Party No.	Name <u>Susan Wall</u>	For Office Use - Party No.
Official Title <u>Assistant Director, Operations, Tire Centre - Canada</u>		Official Title <u>Warehouse Manager</u>	
Telephone No. <u>(613) 221-6113</u>	Fax No. <u>N/A</u>	Telephone No. <u>705-524-8255</u>	Fax No. <u>705-524-8259</u>
E-mail <u>andy.mcdonald@costco.com</u>		E-mail <u>w257mgr@costco.com</u>	
Role and responsibilities in emergency Identify the person(s) authorized to set emergency procedures in motion and include persons authorized to take charge of the premises.		Role and responsibilities in emergency <u>Coordinate site response</u>	
3. Local Fire Services - Key Contact		7. Propane Supplier Key Contact Person	
Name <u>Graham Campbell</u>	For Office Use - Party No.	Name <u>Superior Propane c/o Ron Taylor</u>	For Office Use - Party No.
Official Title <u>Acting Fire Chief</u>	E-mail <u>graham.campbell@greatersudbury.</u>	Official Title <u>Field Operations Manager</u>	E-mail <u>taylorrn@superiorpropane.com</u>
Telephone No. <u>705-674-4455 x 2731</u>	Fax No.	Telephone No. <u>705-738-7033</u>	Fax No. <u>613-822-5221</u>
Role and responsibilities in emergency <u>Coordinate/advise on Fire Service response and serve as liaison with Police</u>		Role and responsibilities in emergency	
Fire Services Address <u>193 Van Horne Street, Sudbury, ON P3E 1E6</u>		Propane Supplier Address <u>6750 Century Avenue, Suite 400, Mississauga, ON</u>	
4. Local Fire Services - Alternate Contact		8. Municipal Contact	
Name <u>Darrel McAloney</u>	For Office Use - Party No.	Name <u>Doug White</u>	For Office Use - Party No.
Official Title <u>Deputy Chief</u>	E-mail <u>darrel.mcaloney@greatersudbury.c</u>	Official Title <u>Plans reviewer</u>	
Telephone No. <u>705-674-4455 x 2771</u>	Fax No.	Telephone No. <u>705-675-3341</u>	Fax No.
Role and responsibilities in emergency <u>Alternate - Coordinate/advise on Fire Service response and serve as liaison with Police</u>		E-mail <u>doug.white@greatersudbury.ca</u>	
Fire Services Address <u>193 Van Horne Street, Sudbury, ON P3E 1E6</u>		Municipality Name and Address <u>Greater Sudbury, 200 Brady Street</u>	

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) <u>J+B Engineering Inc. (c/o: Fereshte Joghataei)</u>	Official Title <u>Project Manager</u>
Signature 	Telephone No. <u>416-229-2636 x238</u>
	Date (dd-mmm-yyyy) <u>19-07-2018</u>



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propane@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

2. Additional Safety Measures

Describe any other measures in place at the facility that exceed the minimum Code and Standards requirements.

1. The Controller uses an employee access card to activate dispenser. The propane dispenser will not operate if employee's training has expired.
2. The facility has three (3) Emergency Shut Off Push Buttons to shut down the pump and close the solenoid valve upstream of dispensing hoses: one at the facility pedestal, one on the wall of the tire centre opposite the facility, and one inside the tire centre.
3. Gas detection systems (3 monitors) with visible and audible alarm
4. Dispenser automatic shutoff at 80% preventing overfill situations
5. Redundant overfill protection checks - weight and volume
6. Tank level monitoring: detection when product is being removed
7. Tank capacity has remote access reading - available to Fire Dept in case of an emergency
8. Data logging - each entry is logged and associated to an employee

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) J+B Engineering Inc. (c/o: Fereshte Joghataei)		Official Title Project Manager
Signature 	Telephone No. 416-229-2636 x238	Date (dd-mmm-yyyy) 19-07-2018



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propane@censing@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

3. Record of Emergency Training Provided - For most recent 12-month period.

Training on Emergency Response Plan and Procedures provided to facility key contacts.

Training Date (dd-mmm-yyyy) 2018	Print Name of Training Provider: Costco Standard Safety Training
	Print Name of Instructor:
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:


Training on the facility's Emergency Management Procedures provided to staff.

Training Date (dd-mmm-yyyy) 2018	Print Name of Training Provider: Costco standard Safety Training
	Print Name of Instructor:
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

On-site specific training provided to certificate holders / persons with Records of Training.

Training Date (dd-mmm-yyyy)	Print Name of Training Provider: FSN
	Print Name of Instructor: Dave Kennedy 905-649-7670
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) J+B Engineering Inc. (c/o: Fereshte Joghataei)	Official Title Project Manager
Signature 	Telephone No. 416-229-2636 x238
	Date (dd-mmm-yyyy) 19-07-2018



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propaneLICensing@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)
 4. Emergency Training Plan for Coming Year

Training on Emergency Response Plan and Procedures provided to facility key contacts.

Target Date (dd-mmm-yyyy) 2019	Print Name of Training Provider: Costco Standard Safety Training
	Print Name of Instructor:
Target Date (dd-mmm-yyyy) 2019	Print Name of Training Provider: Superior Propane or others
	Print Name of Instructor:
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

Training on the facility's Emergency Management Procedures provided to staff.

Target Date (dd-mmm-yyyy) 2019	Print Name of Training Provider: Key site contact
	Print Name of Instructor:
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

On-site specific training provided to certificate holders / persons with Records of Training.

Target Date (dd-mmm-yyyy)	Print Name of Training Provider: FSN
	Print Name of Instructor: Dave Kennedy 905-649-7670
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) J+B Engineering Inc. (c/o Fereshte Joghataei)	Official Title Project Manager
Signature 	Telephone No. 416-229-2636
	Date (dd-mmm-yyyy) 19-07-2018



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propane@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

The licence holder will complete Section B in consultation with the local Fire Services.

5. Emergency Response Communications Plan

Warnings and Actions

Describe who gives warnings to whom, and how and when the warning will be given (including public notification as appropriate).
 The Key Contact/operator or alternate (both ROT staff) will contact emergency services by calling 911 and will provide warnings as outlined in the attached Propane Emergency Response Procedures (to be posted at site and will be part of employee training). If it is safe to do so, this could involve advising neighbours to evacuate. The Key Contact will also contact Superior Propane via the emergency number provided in the ERP.

Describe what action is to be taken and by whom when a warning is issued (including details of a meeting place in a safe identified area and activating the evacuation plan, if necessary).
 The Key Contact/operator or alternate will follow the actions listed in the ERP's provided. If the release of propane cannot be stopped by cutting electrical power, staged evacuation may be required. The initial muster location will be determined by the Warehouse Safety Plan, which will be away from the site and a possible dispersing propane cloud. Subsequent evacuation instructions potentially up to the Hazard Distance to be provided by municipal emergency responders. Residences and businesses beyond the site boundary will be notified by municipal emergency responders.

Communication with Emergency Response Authorities


Describe when and how the licence holder will give early warning to emergency response authorities (including a process to ensure that a call is placed to 911).
 When the system is operation, site staff will be on duty within the propane tank area. The Key Contact or alternate will be implementing emergency response actions and notifications, including notifying emergency responders. 911 will be called immediately after any attempts to shut down the system. When the system is not in operation, the ISC valve (main isolation valve) is closed and the system is shutdown.

Describe provisions for fire department entry when there are no operations or staffing at the propane site.
 The propane tank system is located in a wide, open area that is easily accessible from Kingsway road. The access routes for emergency responders (e.g. Fire Trucks and Ambulances etc.) are identified in the original Site Plan submitted with original warehouse site plan. No changes to Fire Department access entry.

Describe how the licence holder will ensure continual flow of updated information to authorities.
 The license holder will provide critical information on how to shut down the system. This information will be provided either verbally (if on-site) or via cellular phone. Further, if known, the fill level of the tank will be provided to authorities. fill level information is relevant from a time-to-BLEVE perspective, as a near empty tank will BLEVE sooner than a full tank, if there is a fire impingement on the tank. Costco can provide authorities with an on-line link to the tank fill level

How long will it take the facility liaison person to respond to the site.
 During hours of operation, a qualified person is always on site for any emergency responses.
 After hours, It would take Andy McDonald, or the authorized alternate contact approximately 60 minutes to arrive on site after having received the emergency call.

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) J+B Engineering Inc. (c/o Fereshte Joghataei)	Official Title Project Manager
Signature 	Telephone No. 416-229-2636
	Date (dd-mmm-yyyy) 19-07-2018



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propane@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

The licence holder will complete Section B in consultation with the local Fire Services.

6. Building and Site Security and Procedures

- | | Yes | No |
|---|-------------------------------------|--------------------------|
| 1. Does the propane location have controlled access to limit unnecessary risk and entry (lock out procedures)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Is there adequate night lighting at the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Are procedures in place that ensure access routes, aisles, storage area, filling areas and the grounds are kept clear from unwanted materials? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Are there procedures that capture and record the daily inspection of hoses and inspection requirements for filling systems and mechanical devices used in the transfer of propane? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Does the facility have procedures that include a process to isolate and purge any overfilled propane cylinders? (note: isolation, not purging) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Are weighing systems validated for accuracy? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are storage areas clearly marked with the vessels' capacity status (i.e., filled, empty, purged and other hazardous materials)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. Are quality assurance procedures in place to ensure that all valves are closed after the propane cylinders are filled?(e.g., QCC valves) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9. Is the schedule of maintenance and testing activities retained on site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

7. Water Supply

The propane licence holder should work with the local fire department to determine water supply capabilities that are available based on the propane facility's location.

- | | Yes | No |
|---|-------------------------------------|--------------------------|
| 1. Is a pressurized water system available at the propane facility site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Can the municipal fire department pump 375 GPM (1420 LPM) of water at this location? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. What is the unobstructed distance to the closest water supply that could be used for firefighting activities? (distance in metres only) | | <u>37.2m</u> |
| 4. What is the unobstructed distance to the closest approved water supply with year round access if there are no hydrants? (distance in metres only) | | <u>N/A</u> |

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) J+B Engineering Inc. (c/o Fereshte Joghataei)	Official Title Project Manager	
Signature 	Telephone No. 416-229-2636	Date (dd-mm-yy) 19-07-2018



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propane@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

The licence holder will complete Section B in consultation with the local Fire Services.
 8. Licence holder and local Fire Services Review

To be completed by the Local Fire Services	Yes	No
Has the local fire service had an opportunity to review the Emergency Response and Preparedness Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If not, please explain (e.g., no fire services).		
Fire services comments, if any: <u>Ensure Supervisory Staff and Staff licensed to dispense propane have received proper training on the new system and made aware of the emergency procedures identified in the RSMP. It is recommended staff to review emergency procedures often to ensure muscle memory in the event of an emergency.</u>		
To be completed by the Licence Holder		
In response to the above comments, the following action(s) is required: <u>Costco will ensure proper training are in place for staff for the new system and will continue to train staff on the emergency procedures.</u>		
The licence holder will respond to the Local Fire Services comments by: <u>When new system has been installed, before opening to Costco members</u> <small>(dd-mmm-yyyy)</small>		

LOCAL FIRE SERVICES		
The undersigned has reviewed Section B of the Risk and Safety Management Plan Fire Services.		
Local Fire Services Name	Signature	Date (dd-mmm-yyyy)
<u>PHIL D'Aoust, S.F.P.O.</u>		<u>19-07-2018</u>

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) <u>J+B Engineering Inc (c/o Ferashle Joghataei)</u>	Official Title <u>Project Manager</u>
Signature 	Telephone No. Date (dd-mmm-yyyy) <u>416-229-2838</u> <u>19-07-2018</u>



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propane@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION C: SUBMISSIONS

Applicant must include a Facility Site Plan and Map of Surrounding Area

Facility Site Plan.

The licence holder will submit a copy of the original facility site plan updated with the following information:

1. The storage location of fixed, portable, and mobile vessels.
2. The maximum volume, types and storage location of hazardous materials.
3. Location of permanent structures on site.
4. Access and egress points and location of barriers.
5. Location of fire and emergency equipment (e.g., sprinkler systems, extinguishers, suppression systems) on site and location of fire hydrant or water supply where available.
6. Location of emergency shut off/shut down switches/valves.

Map of Surrounding Area.


The licence holder will submit a scaled aerial map of the surrounding area showing the following information:

7. The capacity and placement of the single largest propane storage vessel, including its setback from the front, rear and side property lines.
8. GPS co-ordinates of the single largest vessel.
9. Visual indication of the single largest fixed vessel and a circle made using the distance in Table 1 as the radius from the single largest fixed vessel.
10. Clear indication of the municipality or municipalities present within the circle.
11. Visual indication of property line information.
12. The location and name of roads within or abutting the site.
13. Key note to the drawing indicating the facility's municipal address, municipal lot number(s) and concession lines as applicable, and the date the map was prepared.
14. Address and contact information for each municipality (municipal clerk or secretary-treasurers of planning board). (Refer to page 5.)
15. Complete "Required Mapping Information from Updated Site Plan" in table below .

Required Mapping Information from Updated Site Plan

Date map prepared (dd-mmm-yyyy) 04-07-2018	Capacity of single largest propane storage vessel (USWG) 1999
Tank setback coordinates. Indicate placement on the map.	
Front: 119m North	Right side property line: 63.7m East
Rear: 75.7m South	Left side property line: 188.9m West
GPS coordinates of single largest vessel: Lat: 46.5037 Long:-80.9451	

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) J+B Engineering Inc. (c/o Fereshte Joghataei)	Official Title Project Manager
Signature 	Telephone No. 416-229-2636
	Date (dd-mmm-yyyy) 19-07-2018



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propane@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION C: SUBMISSIONS (cont'd)

Applicant must include a Facility Site Plan and Map of Surrounding Area

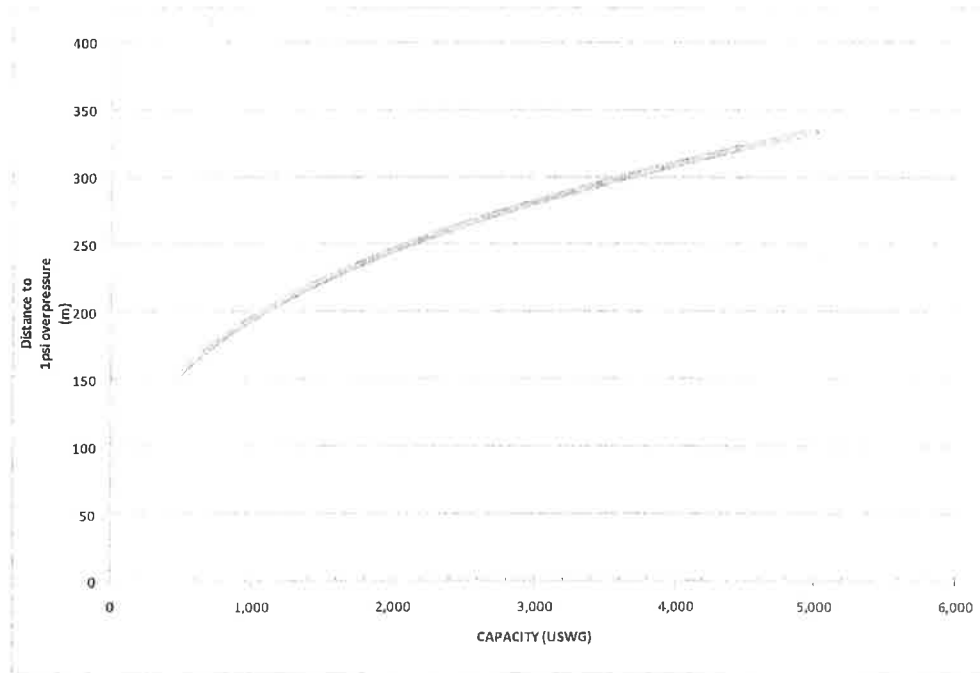
Table 1: Distance Table

Water Capacity (litres)	Nominal Water Capacity (USWG)	Distance to 1 psi overpressure (m)
1,890	500	155
3,780	1,000	195
4,920	1,300	213
6,620	1,750	235
7,130	1,885	241
7,560	2,000	246
18,900	5,000	333

Formula: $D = 16.94 \times (1.524 \times C)^{1/3}$
 D = Distance to overpressure of 1 psi (meters)
 C = Tank Total Capacity in USWG

Parameters: Density of Propane is 0.5033 kg per litre @ 15 C
 Assume all vessels are 80% full
 1 gallon [US, liquid] = 0.003785411784 cubic meter
 1 cubic metre = 264.17 USWG

Hazard Distance Chart (EPA-TNT model)





Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propaneLICensing@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

SECTION C: SUBMISSIONS (cont'd)

Applicant must include a Facility Site Plan and Map of Surrounding Area

As an accompaniment to the Map of Surrounding Area, provide the following information about buildings and features present within the circle in Table 2.

Table 2: Buildings and Features

Buildings and Features Present within the Circle on the Map of the Surrounding Area AND Name and Address of Closest Building or Feature	* Number of Buildings and Features (mark with an "X")				Distance from Tank to Closest Building or Feature
	0	1	2-10	11+	
Industrial buildings or parks or golf courses Name: <u>None within hazard distance</u> Address: _____ City: _____ Province _____ Postal Code _____	x				_____ m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. Name: <u>None within hazard distance</u> Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>Various retails and restaurants (Staples, Montana's, Pier 1, Home Depot, SilverCity cinemas)</u> Address: <u>Kingsway and Barry Downe Road</u> City: <u>Sudbury</u> Province <u>ON</u> Postal Code _____			x		<u>100-250</u> m
Commercial building units -- continuous occupancy specifically hotels, campgrounds, and resorts. Name: <u>None within hazard distance</u> Address: _____ City: _____ Province _____ Postal Code _____	x				_____ m
Sensitive institutions specifically hospitals, schools and day cares, nursing and retirement homes, mental health institutions, and prisons. Name: <u>None within hazard distance</u> Address: _____ City: _____ Province _____ Postal Code _____	x				_____ m
Emergency responders specifically fire stations, ambulance stations, and police stations. Name: <u>None within hazard distance</u> Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m

* For multi-unit buildings, count each unit as "1".

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) J+B Engineering Inc. (c/o Fereshle Joghataei)	Official Title Project Manager
Signature 	Telephone No. 416-229-2636
	Date (dd-mmm-yyyy) 19-07-2018



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: 416.734.3300
 Fax: 416.231.4078
 Customer Service: 1.877.682.8772
 propane@tssa.org
 www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
 Propane Storage and Handling Regulation

WORKSHEET

Portable Storage Additional Information Worksheet

Cylinder Size	Capacity in USWG	Quantity	Total Volume in USWG
# 420	123.9		
# 100	29.5		
# 40	11.75		
# 33.3	9.62		
# 30	8.8		
# 20	5.8	72 (3 cages of 24)	417.6 USWG
# 10	2.9		
# 5	1.5		
Total Cylinder Capacity			

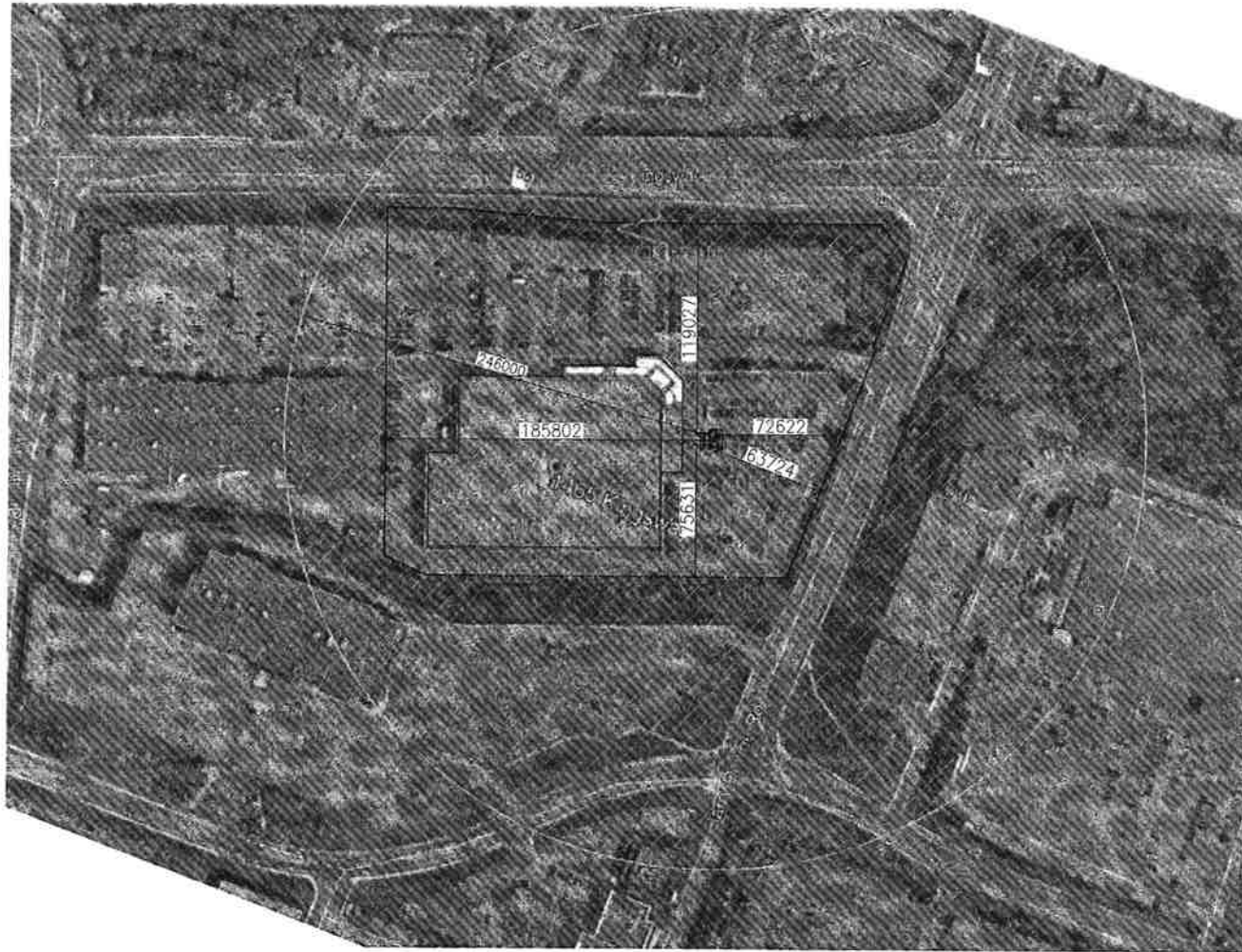
Tanks Stored On-site Not Connected for Use

Tank Size In USWG	Quantity	Total Volume in USWG
Total Tank Capacity		

Total Cylinder Capacity	418 USWG
Total Tank Capacity	0 USWG
Total Portable Capacity (Total Cylinder Capacity + Total Tank Capacity)	418 USWG

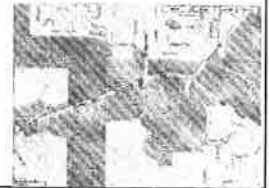


NORTH



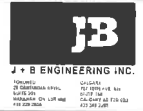
COSTCO
WHOLESALE
CORPORATION
808 LAKE DRIVE
ISSAQUAH, WA 98027
T 425 310 9100
www.costco.com

KEY PLAN



1	23 JUL 18	ISSUED FOR TSSA APPROVAL	MMO	GC
0	03 JUL 18	FOR REVIEW	MMO	GC
No.	Date	Description	Drawn	Checked

REVISIONS

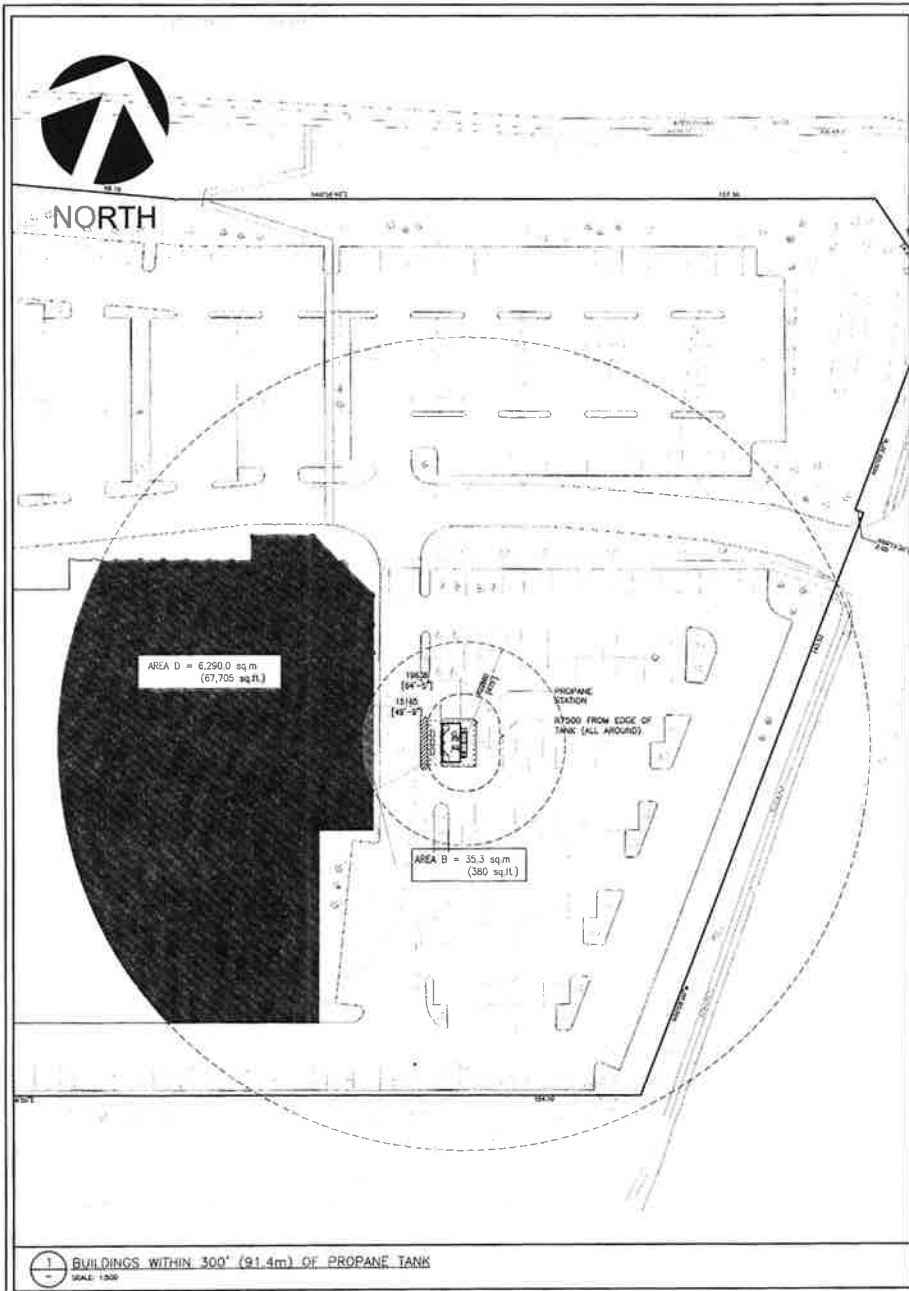


Project: COSTCO WHOLESALE

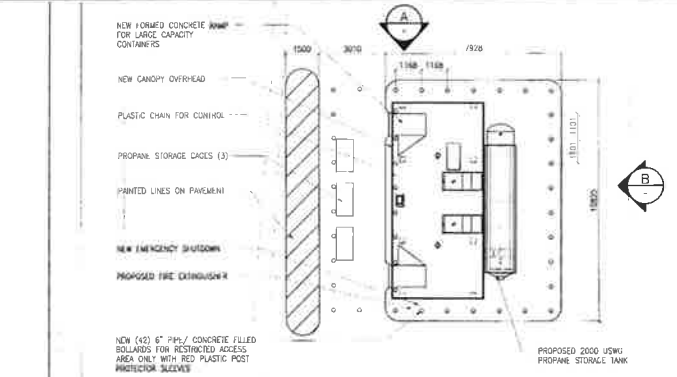
AREA MAP

1465 KINGCROW ROAD SUDBURY, OR

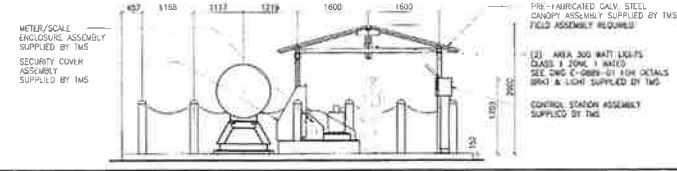
File No.	180248	Date	29 JUNE 18	ACAD INFO
Drawn By	EM	Scale	1:1250	Proj. File
Checked By	GC	Sheet	1 of 1	Plotting Scale
Drawing No.	P-251	Sheeting	Side D	



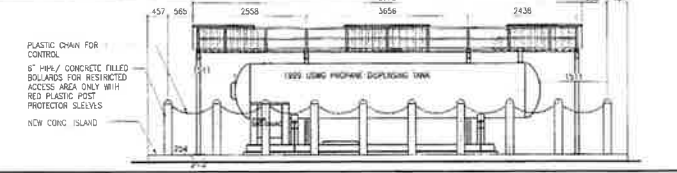
1 BUILDINGS WITHIN 300' (91.4m) OF PROPANE TANK
SCALE: 1:500



2 DETAIL OF PROPOSED PROPANE TANK
SCALE: 1:100



A ELEVATION AT TANK AND DISPENSING SHELTER
SCALE: NTS



B ELEVATION AT TANK AND DISPENSING SHELTER
SCALE: NTS

BRANCH No. 9 CALCULATION REQUIREMENTS

AREA A ALL INDUSTRIAL OCCUPANCY BUILDINGS (OR PART THEREOF) WITHIN A 75 FEET (22.86m) HORIZONTAL RADIUS OF A TANK OR VOC.

AREA B ALL BUILDINGS, OTHER THAN INDUSTRIAL OCCUPANCY BUILDINGS (OR PART THEREOF), WITHIN A 75 FEET (22.86m) HORIZONTAL RADIUS OF A TANK OR VOC.

AREA C ALL INDUSTRIAL OCCUPANCY BUILDINGS (OR PART THEREOF) WITHIN AN AREA BOUNDED BY HORIZONTAL RADIUS OF 75 FEET (22.86m) AND 300 (91.44m) FEET FROM A TANK OR VOC.

AREA D ALL BUILDINGS, OTHER THAN INDUSTRIAL OCCUPANCY BUILDINGS (OR PART THEREOF), WITHIN AN AREA BOUNDED BY HORIZONTAL RADIUS OF 75 FEET (22.86m) AND 300 (91.44m) FEET FROM A TANK OR VOC.

2. FROM THE AREAS DETERMINED IN 1., CALCULATE

- AREA E AS THE SUM OF AREA A PLUS TWICE AREA B; AND
- AREA F AS THE SUM OF AREA C PLUS TWICE AREA D

3. RECORD THE DISTANCE BETWEEN A TANK OR VOC AND THE NEAREST SCHOOL AND RESIDENTIAL OCCUPANCY BUILDING.

ABOVEGROUND TANKS:

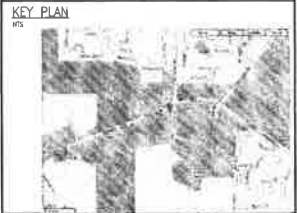
AN ABOVEGROUND PROPANE TANK SHALL NOT BE LOCATED WHERE:

- ANY PART OF A SCHOOL BUILDING IS WITHIN 300 FEET OF THE TANK;
- ANY PART OF A RESIDENTIAL OCCUPANCY BUILDING IS WITHIN 25 FEET (7.62m) OF THE TANK; OR
- THE SUM OF AREA E PLUS 0.1 TIMES AREA F IS GREATER THAN 15,000 (11,333.5 m²).

Area Designator	Permitted	Accepted	Area (F ²)	Maximum Allowable Area
Area A	0.00	0.00		
Area B	35.3	380.0		
Area C	0.00	0.00		
Area D	6,290.0	67,705		
Area E	6,325.3	70,485		
Area F	12,580	135,418		
Avg tank	E=0.144	1,328	14,301	14,301+18,000
School	150'	N/A	N/A	
Residential	25' (7.62m)	N/A	N/A	

CONCLUSION:
THE PROPOSED PROPANE INSTALLATION IS LESS THAN 15,000 sq./ft. THE MAXIMUM ALLOWABLE AS DEFINED BY BRANCH STANDARD 9 LOCATOR IS ACCEPTABLE.

COSTCO WHOLESALE CORPORATION
999 LAKE DRIVE
ISSAQUAH, WA 98027
T. 425.934.6100
WWW.COSTCO.COM



- STANDARD No. 9 NOTES**
- AREAS SHOWN REPRESENT PORTIONS OF BUILDING BOUNDED BY THE 0'-22.8 m (0'-75) AND 22.9 (75-300) RADIUS AS INDICATED.
 - AS PER APPROVED ULANCES ALL EQUIPMENT IS TO MEET APPLICABLE CODE REQUIREMENTS.
 - ALL PORTIONS OF BUILDING THAT FALL WITHIN THE 22.9m (75) AND 91.4m (300) RADIUS ARE ALSO USED IN CALCULATING THE BRANCH STANDARD #9 LIMITS.
 - ALL MECHANICAL AND ELECTRICAL EQUIPMENT TO BE APPROVED FOR PROPANE USE AND INSTALLED IN THE APPROPRIATE CLASSIFIED AREA (i.e. HAZARDOUS, NON-HAZARDOUS, I, C).
 - ELECTRICAL EQUIPMENT MUST BE GRADE 1 GROUP 2 DIVISION 1 IF WITHIN 1.5m (5') FROM SCALE OUT DOWNS; 3.0m (10') (1) 4.5m (15') FROM SCALE ON TANK.
 - TANK LOCATION MAY NOT BE EXACTLY AS SHOWN. ACTUAL LOCATION TO BE VERIFIED IN THE FIELD.
 - PROPANE TANK MUST BE LOCATED A MINIMUM OF 6.1m (20') FROM A TANK CONTAINING COMBUSTIBLE OR FLAMMABLE LIQUID.
 - PROPANE DISPENSING DEVICES TO BE AT LEAST 3m (10') HIGHER THAN STORAGE TANK OR WITH PROPANE STORAGE AND HANDLING CODE, 8149.2.
 - SPACINGS OF TANK PLUS DISPENSING FROM EACH OTHER TO BE MIN. 7.5m (25') AS PER LATEST 8149.7 CODE. INSTALLER TO VERIFY SITE CONDITIONS ARE IN COMPLIANCE.
 - ALL GRADES SHOWN ON THIS WITHIN 7.5m (25') OF THE TANK AND ITS EQUIPMENT MUST BE EQUIPPED WITH AN AUTOMATIC FLAMMABLE VAPOR LEAK DETECTION SYSTEM.
 - OCCUPANCY CLASSIFICATIONS HAVE BEEN SELECTED BY "TMS" OCCUPANCY HAS BEEN VERIFIED BY THE DRAWING BUILDING CODE. WHEN DUAL OCCUPANCY CLASSIFICATIONS EXIST, THE MAIN FUNCTION HAS BEEN PRESUMED (E.G. RESIDENTIAL ZONE, INDUSTRIAL ZONE, IF CLASSIFICATION USED) UNLESS OTHERWISE SHOWN.
 - INSTALLATION MUST HAVE A CLEARLY IDENTIFIED AND READILY ACCESSIBLE means TO SHUT OFF THE PROPANE SYSTEM AND ALL DISCONNECTS TO DISPENSING EQUIPMENT TO MEET THE REQUIREMENTS OF LATEST 8149.2 PROPANE STORAGE AND HANDLING CODE, AS PER LATEST 8149.2 PROPANE STORAGE AND HANDLING CODE.
 - DRAWING ISSUED FOR OUTDOOR TECHNICAL STANDARDS AND SAFETY AUTHORITY.

1	23 JUL '18	ISSUED FOR TSSA APPROVAL			
2	04 JUL '18	ISSUED FOR REVIEW			

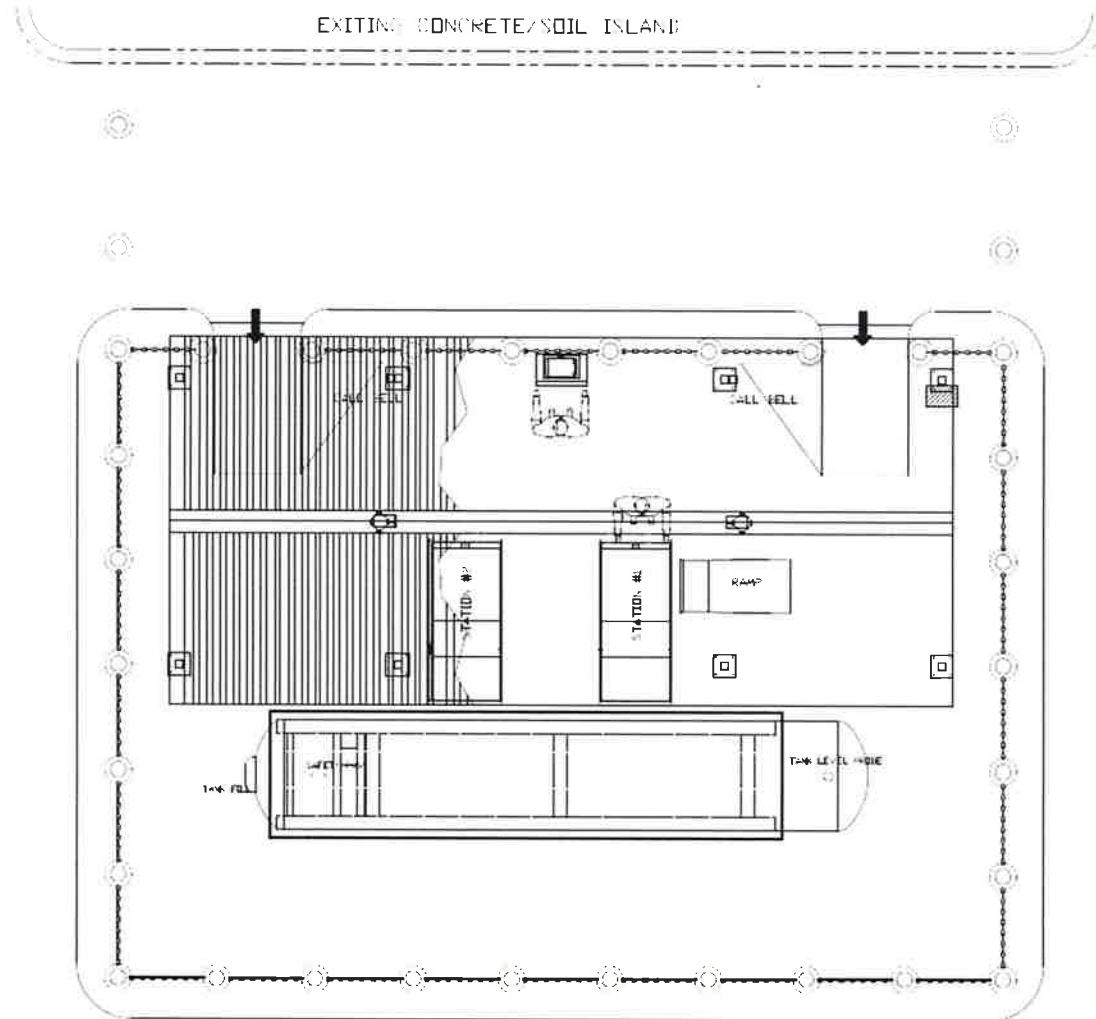
J+B ENGINEERING INC.
12200 10th Ave S
Burien, WA 98148
Phone: 206.835.4100
Fax: 206.835.4101

COSTCO WHOLESALE

Project: COSTCO WHOLESALE
BRANCH 9 - 1999 USWG PROPANE TANK C/W CYLINDER SCALES
1485 KIMCROWAY ROAD
SILVERBURY, OR
File No: 180248 Date: 04 JUL '18 ACAD INFO
Drawn By: MBO Scale: AS SHOWN Proj: 180248-1-250
Checked By: CC Sheet: 1 of 1 Plotting: Scale: 1:1 Plotting Date: 07/04/18
Drawing No: P-250 Drawing Set: D

TMS VOLUMETRIC PROPANE DISPENSING SYSTEM (VPD)

Raised Concrete Pad



TMS VOLUMETRIC PROPANE DISPENSING SYSTEM (VPD)

TMS Total Meter Services
Tel: 416-225-5867
Fax: 416-225-1938
78 Worcester Rd Toronto, ON, M9W5X7

