



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Fax: 416 231 4078
 Customer Service: 1 877 682 8772
 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.

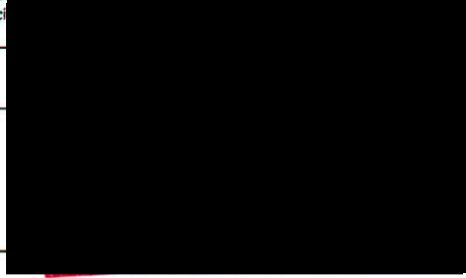
Failure to fully complete this form may result in rejection. Making a false statement may result in a fine or prosecution under the Technical Standards and Safety Act

Licence Number

Check applicable type of propane operations

Cylinder Motor Fill Filling Plant Card/Keylock

Submit along with this completed application a Facility Site Plan and a Map of the Surrounding Area



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.: 18274784

Operator Name (if different from above):

Telephone No.: 1-800-453-3783 Fax No.: N/A E-mail: andy.moder.ald@costco.com

B Street No.: 4530 Street Name / 911 Number / Address, if applicable: Horseshoe Drive, Suite 150

Town / City or Township / County: Sterling Province: VA, USA Postal Code: 20105

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

D Location of facility

Street No.: 55 Street Name / 911 Number / Address, if applicable: New Huntington Road Nearest Major Intersection: Highway 7 & Highway 427

Town / City or Township / County: City of Vaughan, Regional Municipality of York Province: ON Postal Code: TBD

Name of Licence Holder: Robert Moyer, Manager of Propane Operations on behalf of Costco Wholesale Canada Limited

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: 100-05

Municipality (or municipalities if the facility or its hazard distance touches multiple borders): City of Vaughan, Regional Municipality of York

Hours of operation:



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: Robert Moyer on behalf of Costco Wholesale Canada Limited		4/28/17
Name of Senior Management person as defined in the Regulation holding the Record of Training: Robert Moyer		



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 Propane Storage and Handling Regulation

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- 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;">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: 80%;" type="text" value="New Application"/></p> <p>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>Submit along with this completed application a Facility Site Plan and a Map of the Surrounding Area.</p>	<p style="text-align: center;">For Office Use Only</p> <div style="border: 1px solid black; height: 80px; width: 100%;"></div>
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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.

<p>A Company Name <input style="width: 80%;" type="text" value="Costco Wholesale Canada Limited"/></p> <p>Operator Name (if different from above) <input style="width: 95%;" type="text"/></p> <p>Telephone No. <input style="width: 20%;" type="text" value="1-800-463-3763"/> Fax No. <input style="width: 20%;" type="text" value="N/A"/> E-mail <input style="width: 60%;" type="text" value="andy.mcdonald@costco.com"/></p>	<p>Corporation No. <input style="width: 80%;" type="text" value="1924764"/></p>
--	---

B	Street No. <input style="width: 80%;" type="text" value="45940"/>	Street Name / 911 Number / Address, if applicable <input style="width: 95%;" type="text" value="Horseshoe Drive, Suite 150"/>
	Town / City or Township / County <input style="width: 40%;" type="text" value="Sterling"/>	Province <input style="width: 20%;" type="text" value="VA, USA"/> Postal Code <input style="width: 40%;" type="text" value="20166"/>

C	Street No. <input style="width: 80%;" type="text" value="415"/>	Street Name / 911 Number / Address, if applicable <input style="width: 95%;" type="text" value="West Hunt Club Road"/>
	Town / City or Township / County <input style="width: 40%;" type="text" value="Ottawa"/>	Province <input style="width: 20%;" type="text" value="ON"/> Postal Code <input style="width: 40%;" type="text" value="K2E 1C5"/>

Information on Container Refill Centre or Filling Plant		
Location of facility.		
D	Street No. <input style="width: 80%;" type="text" value="55"/>	Street Name / 911 Number / Address, if applicable <input style="width: 95%;" type="text" value="New Huntington Road"/>
	Town / City or Township / County <input style="width: 40%;" type="text" value="City of Vaughan, Regional Municipality of York"/>	Nearest Major Intersection <input style="width: 60%;" type="text" value="Highway 7 & Highway 427"/> Province <input style="width: 20%;" type="text" value="ON"/> Postal Code <input style="width: 40%;" type="text" value="TBD"/>

Name of Licence Holder <input style="width: 95%;" type="text" value="Robert Moyer, Manager of Propane Operations, on behalf of Costco Wholesale Canada Limited"/>	
Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT). <input style="width: 80%;" type="text" value="Robert Moyer, Manager of Propane Operations"/>	ROT type <input style="width: 80%;" type="text" value="100-08"/>
Municipality (or municipalities if the facility or its hazard distance touches multiple borders) <input style="width: 95%;" type="text" value="City of Vaughan, Regional Municipality of York"/>	
Hours of operation: <div style="background-color: black; width: 500px; height: 40px; display: inline-block;"></div>	

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Print name	Signature	Date (dd-mmm-yyyy)
Name of Licence Holder <input style="width: 95%;" type="text" value="Robert Moyer on behalf of Costco Wholesale Canada Limited"/>		
Name of Senior Management person as defined in the Regulation holding the Record of Training <input style="width: 95%;" type="text" value="Robert Moyer"/>		



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SECTION A: GENERAL INFORMATION (cont'd)

Indicate the year the facility was established. 2017	Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment. None
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Identify the psig rating and serial number for each fixed propane storage tank on site.

	PSIG	Serial Number
Tank 1:	250 PSIG	67-17
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: _____
417.6

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Name of person completing this form (please print) J and B Engineering Inc. (c/o Fereshte Joghataei)	Official Title Project Manager	
Signature 	Telephone No. 416-229-2636 x238	Date (dd-mmm-yyyy) 30-06-2017



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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. 505	Street Name / 911 Number / Address, if applicable Victoria Street East			
Town / City or Township / Country Town of Whitby, Durham Region			Province ON	Postal Code L1N 9Z3
Telephone No. (613) 920-1339	Fax No.	Contact Name Shaun Mountstevan		
E-mail Shaun_Mounstevan@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.

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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.

A Costco fuel facility is located to the west of the propane facility. A maximum of 300,000 L of gasoline would be on-site, stored in underground tanks below the Gas Bar. An MSDS for regular gasoline is provided herein (the MSDS for premium gasoline is similar). Approximately 1000 gallons of motor oil (4 drums @ 250 gallons each) will be stored in the oil room within the Tire Centre. A 2,900L underground tank for storing waste oil from the tire centre is located in a landscape island north of the propane facility.

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

1. Fire extinguishers 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 opposite the facility; 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. Fire Extinguishers will be maintained, inspected and tested per NFPA 10.

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

1. Contacts for Emergency Response

1. Facility Contact Personnel - Key Contact

Name <u>Robert Moyer</u>	For Office Use - Party No.
Official Title <u>Manager of Propane Operations</u>	
Telephone No. <u>(703) 626-8398</u>	Fax No. <u>N/A</u>
E-mail <u>robert.moyer@costco.com</u>	
Role and responsibilities in emergency <u>Identify the person(s) authorized to set emergency procedures in motion and include persons authorized to take charge of the premises.</u>	

5. Facility 24-Hour Contact Person

Name <u>Andy McDonald</u>	For Office Use - Party No.
Official Title <u>Assistant Director, Operations, Tire Centre - Canada</u>	
Cell No. <u>(613) 221-6113</u>	Fax No. <u>N/A</u>
E-mail <u>andy.mcdonald@costco.com</u>	
Role and responsibilities in emergency <u>Identify the person(s) authorized to set emergency procedures in motion and include persons authorized to take charge of the premises.</u>	

2. Facility Contact Personnel - Alternate Contact

Name <u>Andy McDonald</u>	For Office Use - Party No.
Official Title <u>Assistant Director, Operations, Tire Centre - Canada</u>	
Telephone No. <u>(613) 221-6113</u>	Fax No. <u>N/A</u>
E-mail <u>andy.mcdonald@costco.com</u>	
Role and responsibilities in emergency <u>Identify the person(s) authorized to set emergency procedures in motion and include persons authorized to take charge of the premises.</u>	

6. Name of Facility Manager

Name <u>Andy McDonald</u>	For Office Use - Party No.
Official Title <u>Assistant Director, Operations, Tire Centre - Canada</u>	
Telephone No. <u>(613) 221-6113</u>	Fax No. <u>N/A</u>
E-mail <u>andy.mcdonald@costco.com</u>	
Role and responsibilities in emergency <u>Identify the person(s) authorized to set emergency procedures in motion and include persons authorized to take charge of the premises.</u>	

3. Local Fire Services - Key Contact

Name <u>Larry Bentley</u>	For Office Use - Party No.
Official Title <u>Fire Chief</u>	E-mail <u>larry.bentley@vaughan.ca</u>
Telephone No. <u>(905) 832-8585 ext. 6301</u>	Fax No. <u>N/A</u>
Role and responsibilities in emergency <u>Coordinate/advise on Fire Service response and serve as liaison with Police</u>	
Fire Services Address <u>2141 Major Mackenzie Drive, Vaughan, ON</u>	

7. Propane Supplier Key Contact Person

Name <u>Shaun Mounstevan</u>	For Office Use - Party No.
Official Title <u>Market Manager</u>	E-mail <u>shaun_mounstevan@superiorpropane.c</u>
Telephone No. <u>(613) 920-1339</u>	Fax No. <u>N/A</u>
Role and responsibilities in emergency <u>Identify and dispatch Superior Propane and or LPERGC emergency response personnel as required.</u>	
Propane Supplier Address <u>6750 Century Avenue, Suite 400, Mississauga, Ontario, L5N 2V8</u>	

4. Local Fire Services - Alternate Contact

Name <u>Darren Lynch</u>	For Office Use - Party No.
Official Title <u>Chief Fire Prevention Officer</u>	E-mail <u>darren.lynch@vaughan.ca</u>
Telephone No. <u>(905) 832-8531</u>	Fax No.
Role and responsibilities in emergency <u>Assist with coordination of Fire Service response and serve as liaison with Police</u>	
Fire Services Address <u>2141 Major Mackenzie Drive, Vaughan, ON</u>	

8. Municipal Contact

Name <u>Barbara McEwan</u>	For Office Use - Party No.
Official Title <u>City Clerk</u>	
Telephone No. <u>(905) 832-8504 x8281</u>	Fax No.
E-mail <u>Barbara.mcewan@vaughan.ca</u>	
Municipality Name and Address <u>City of Vaughan 2141 Major Mackenzie Drive, Vaughan, ON</u>	

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Name of person completing this form (please print) <u>J and B Engineering Inc. (c/o Fereshte Joghataei)</u>	Official Title <u>Project Manager</u>
Signature <u>Ken</u>	Telephone No. <u>416-229-2636 x238</u>
	Date (dd-mmm-yyyy) <u>30-06-2017</u>



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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 detections 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
9. The proposed Costco warehouse will incorporate wall-mounted, down-cast lighting along all frontages and mast lighting will be provided in the parking areas including the propane facility area.
10. The parking lot, including the propane facility, is illuminated as per municipal requirements

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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)	Print Name of Training Provider:
	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)	Print Name of Training Provider:
	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) 11-May-2016	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:

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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)	Print Name of Training Provider: <i>New Facility. Training date TBD</i>
	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:

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

Target Date (dd-mmm-yyyy)	Print Name of Training Provider: <i>New Facility. Training date TBD</i>
	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: <i>New Facility. Training date TBD</i>
	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:

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Name of person completing this form (please print) <i>J and B Engineering Inc. (c/o Fereshte Joghataei)</i>	Official Title <i>Project Manager</i>
Signature <i>Fe</i>	Telephone No. <i>416-229-2636 x238</i> Date (dd-mmm-yyyy) <i>30-06-2017</i>



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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 (ERP - 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 finalized 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. 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 initiate emergency response actions and notifications, includign 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 either New Huntington Road and Motion Court. The access routes for emergency responders (e.g. Fire Trucks and Ambulances etc.) are identified in the Site Plan submitted as part of this TSSA application.

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.

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.

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Signature <i>Fereshte</i>	Telephone No. 416-229-2636 x238	Date (dd-mmm-yyyy) 30-06-2017



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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>21.7m</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 and B Engineering Inc. (c/o Fereshte Joghataei)	Official Title Project Manager
Signature 	Telephone No. 416-229-2636 x238
	Date (dd-mmm-yyyy) 30-06-2017



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 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

Has the local fire service had an opportunity to review the Emergency Response and Preparedness Plan?

Yes

No

If not, please explain (e.g., no fire services).

Fire services comments, if any:

See attached docs for Fire Service comments. *This is a conditional approval only. Pages 7 & 8 shall be completed before any operation of dispensing propane. Applicant required to submit pages 7 & 8 to Vaughan Fire.* (PK)

To be completed by the Licence Holder

In response to the above comments, the following action(s) is required:

See attached docs for Fire Service comments.

The licence holder will respond to the Local Fire Services comments by: _____ (dd-mmm-yyyy)

Conditional Only

LOCAL FIRE SERVICES

The undersigned has reviewed Section B of the Risk and Safety Management Plan Fire Services.

Local Fire Services Name	Print name Deryn Rizzi	Signature D. Rizzi	Date (dd-mmm-yyyy) 05 07 2017
--------------------------	---------------------------	-----------------------	----------------------------------

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Name of person completing this form (please print) J and B Engineering Inc. (c/o Fereshte Joghataei)	Official Title Project Manager
Signature <i>Ke</i>	Telephone No. 416-229-2636 x238
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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

Has the local fire service had an opportunity to review the Emergency Response and Preparedness Plan?

Yes

No

If not, please explain (e.g., no fire services).

Fire services comments, if any:

See attached docs for Fire Service comments. *This is a conditional approval only. Pages 7 & 8 shall be completed before any operation of dispensing propane. Applicant required to submit pages 7 & 8 to Vaughan Fire.* (PK)

To be completed by the Licence Holder

In response to the above comments, the following action(s) is required:

See attached docs for Fire Service comments.

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Conditional Only

LOCAL FIRE SERVICES

The undersigned has reviewed Section B of the Risk and Safety Management Plan Fire Services.

Local Fire Services Name	Print name Deryn Rizzi	Signature D. Rizzi	Date (dd-mmm-yyyy) 05 07 2017
--------------------------	---------------------------	-----------------------	----------------------------------

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Signature <i>Ke</i>	Telephone No. 416-229-2636 x238
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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) 15-01-2016	Capacity of single largest propane storage vessel (USWG) 1999 USWG
Tank setback coordinates. Indicate placement on the map.	
Front: 101.86 m west	Right side property line: 159.44 m north
Rear: 194.80 m east	Left side property line: 30.38 m south
GPS coordinates of single largest vessel: Lat: 43.76952 Lat: -79.640445	

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SECTION C: SUBMISSIONS (cont'd)
 Applicant must include a Facility Site Plan and Map of Surrounding Area

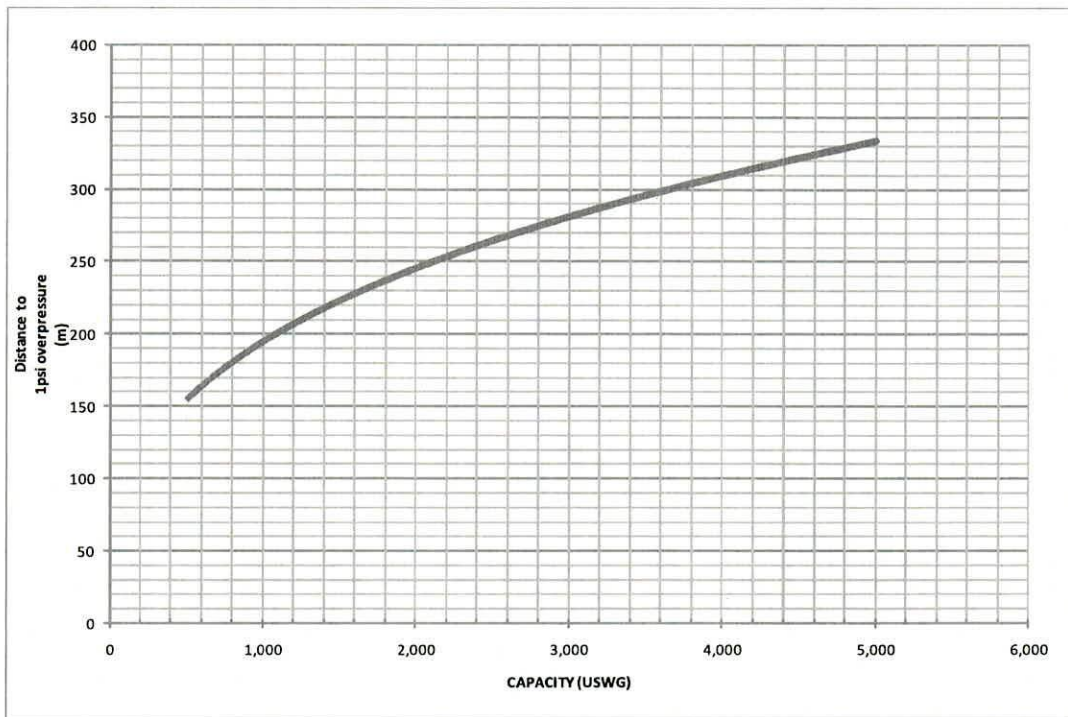
Table 1: Distance Table

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)





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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>Although not buildings, the City of Vaughan has requested that Highways 7 and 427 be identified as sensitive areas in close proximity to the site.</u> Address: _____ City: _____ Province _____ Postal Code _____			2		<u>0</u> 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				<u>0</u> m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>Proposed Commercial Development (as part of Phase 2 Development on Subject Lands)</u> Address: <u>TBD (located immediately west of the Subject Lands and east of New Huntington Road)</u> City: <u>Vaughan</u> Province <u>ON</u> Postal Code <u>TBD</u>	X				<u>0</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				<u>0</u> 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				<u>0</u> m
Emergency responders specifically fire stations, ambulance stations, and police stations. Name: <u>None within hazard distance</u> Address: _____ City: _____ Province _____ Postal Code _____	X				<u>0</u> m

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

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Name of person completing this form (please print) <u>J and B Engineering Inc. (c/o Fereshte Joghataei)</u>	Official Title <u>Project Manager</u>
Signature <u>Ke</u>	Telephone No. <u>416-229-2636 x238</u> Date (dd-mmm-yyyy) <u>30-06-2017</u>



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WORKSHEET

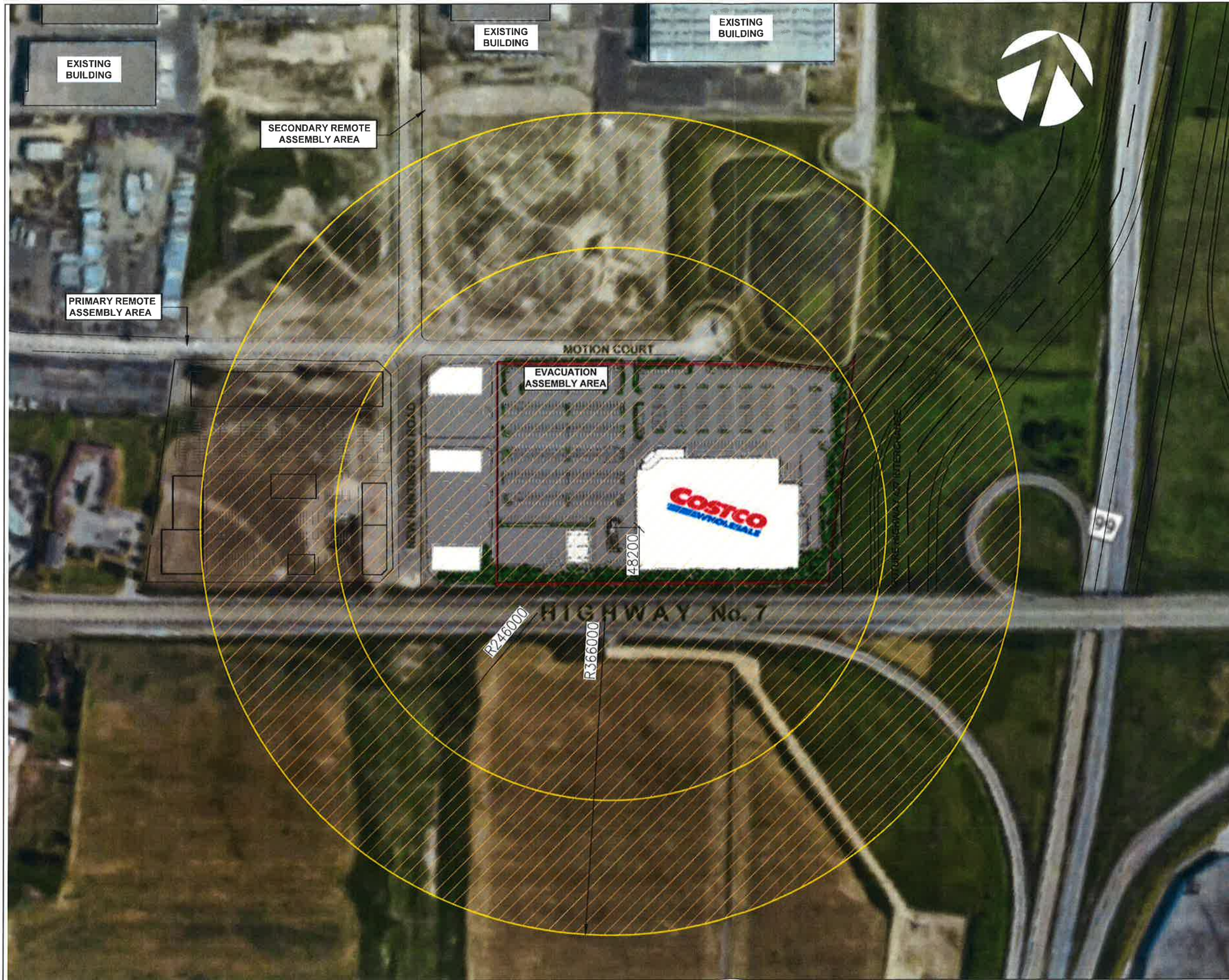
Portable Storage Additional Information Worksheet

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



COSTCO WHOLESALE CORPORATION

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ISSAQUAH, WA 98027
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PROJECT DATA

PROJECT ADDRESS: 55 NEW HUNTINGTON ROAD
VAUGHAN, ONTARIO

COSTCO SITE AREA: 59,952.8m² (6.00 ha) /
645,327ft² (14.81 ac)

ZONING: C5 - COMMUNITY COMMERCIAL

JURISDICTION: CITY OF VAUGHAN

BOUNDARY INFORMATION: THIS DRAWING IS BASED ON A SURVEY FROM SCHAEFFER OZALDOY BENNETT LTD., O.L.S., RECEIVED OCTOBER 16, 2015.

SETBACKS: NORTH: 141.65m
SOUTH: 48.20m
EAST: 198.11m
WEST: 100.64m

MUNICIPAL CONTACT: JEFFREY A. ADAMS
CITY CLERK
905-832-8504
JEFFREY.ADAMS@VAUGHAN.CA

CAPACITY OF PROPANE TANK: 1999 USWG HORIZONTAL TANK

GPS COORDINATES: 43°46'10.69"N 79°38'22.02"W

TSSA RECOGNIZED HAZARDOUS AREA CIRCULAR DISTANCE TO 1 PSI OVER PRESSURE: 248m

CITY OF VAUGHAN RECOGNIZED HAZARDOUS DISTANCE AS PER ADASHI: 368m

No.	Date	Description	MBO	Drawn	Checked
0	02 MAY '17	ISSUED FOR REVIEW			

REVISIONS

J+B
J + B ENGINEERING INC.
1800 BAYVIEW AVE. SUITE 108
SCARBOROUGH, ONT. M1B 4Y1
416-291-2522

OWNER/CLIENT:

Project: COSTCO WHOLESALE
AREA MAP

55 NEW HUNTINGTON ROAD VAUGHAN, ON

File No: 150218	Date: 02 MAY '17	ACAD INFO
Drawn By: MBO	Scale: 1:1500	Dwg File: 150218-P-251
Checked By: GG	Sheet 1 of 1	Plotting Scale: 1=1
Drawing No: P-251		Drawing Size: D

LEGEND

- NO SMOKING** INSET 1: NO SMOKING SIGNAGE
- PROPANE** INSET 2: PROPANE SIGNAGE
- FLAMMABLE GAS** INSET 3: FLAMMABLE GAS SIGNAGE



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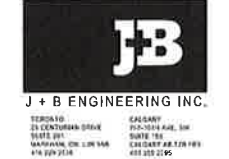
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NOTE:
SITE PLAN COMPLIES WITH O. REG 211/01 SECTION 27 (2)(d).



No.	Date	Description	Drawn	Checked
0	02 MAY '17	ISSUED FOR REVIEW	MBO	

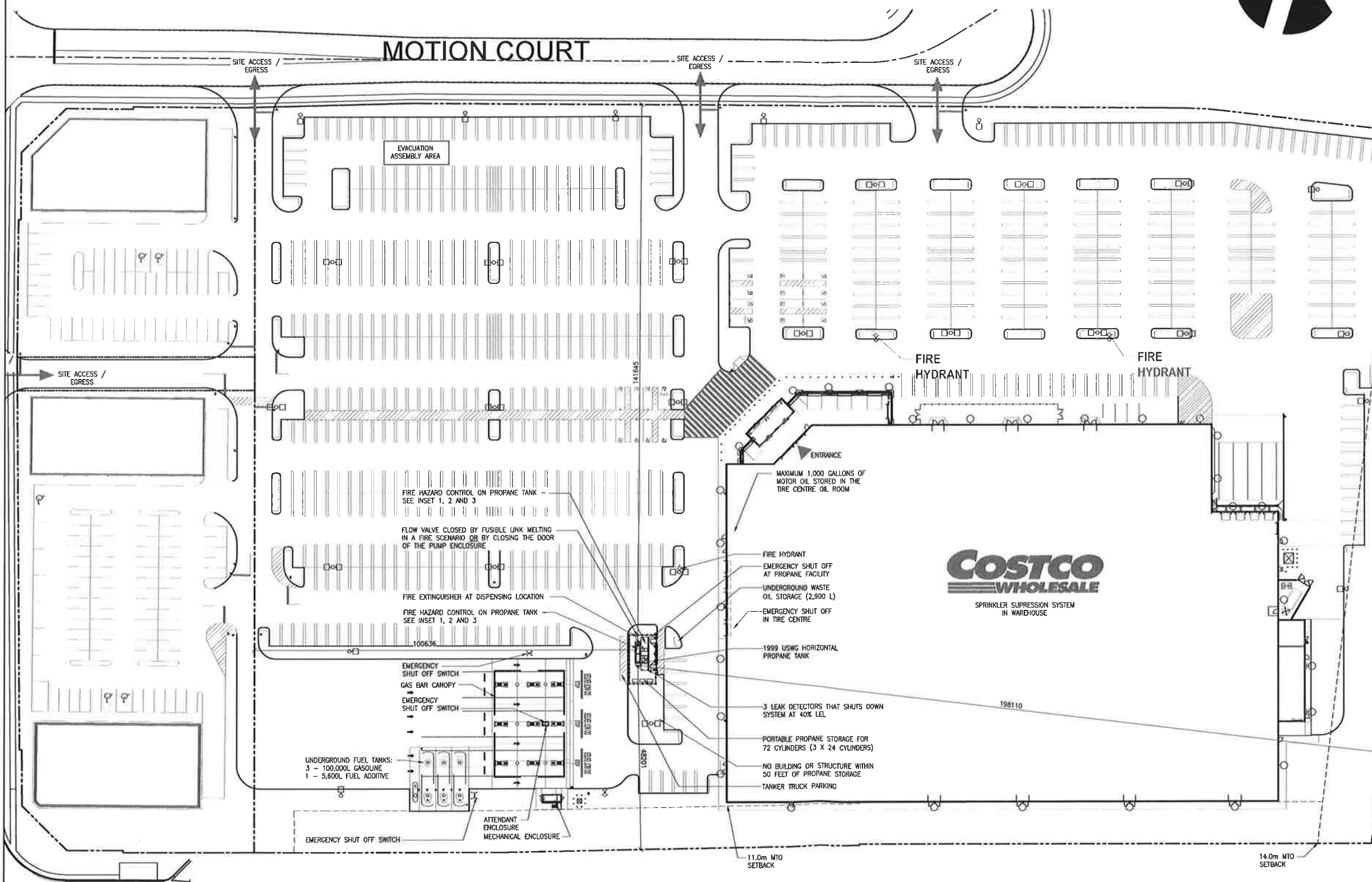
REVISIONS



Project: COSTCO WHOLESALE

SITE PLAN

File No:	Date:	ACAD INFO
15021B	02 MAY '17	
Drawn By: MBO	Scale: 1:500	Dwg. File: 15021B-P-200
Checked By: GG	Sheet 1 of 1	Plotting Scale: 1=1
Drawing No: P-200		Drawing Size: D



UNRECORDED
SECTION