



Technical Standards and Safety Authority
 www.tssa.org

14th Floor - Centre Tower
 3300 Bloor Street West
 Toronto Ontario M8X 2X4
 Fax: 416.231.4903
 Customer Service: 1.877.682.8772

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.

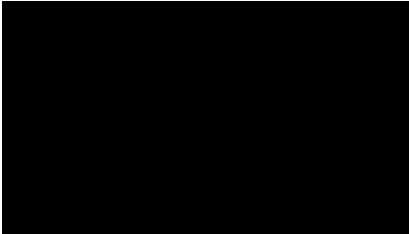
Failure to fully complete this form may result in rejection.
 Making a false statement may result in a fine or prosecution under the *Technical Standards and Safety Act*

Licence Number NEW APPLICATION

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.

Company Name Costco Wholesale Canada Limited Ontario Corporation No., if applicable _____

A Operator Name (if different from above)
Robert Moyer (Manager of Propane Operations)

Telephone No. 1-800-463-3783 Fax No. N/A E-mail service@costco.ca

B Street No. 415 Street Name / 911 Number / Address, if applicable West Hunt Road

Town / City or Township / County Ottawa Province Ontario Postal Code K2E 1C5

Mailing address if different from above.

C Street No. _____ Street Name / 911 Number / Address, if applicable _____

Town / City or Township / County _____ Province _____ Postal Code _____

Information on Container Refill Centre or Filling Plant

Location of facility.

D Street No. 130 Street Name / 911 Number / Address, if applicable Ritson Road North Nearest Major Intersection Ritson Road & William Street East

Town / City or Township / County Oshawa Province Ontario Postal Code L1G 1Z7

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). ROT type
Robert Moyer (Manager of Propane Operations) 100-08

Municipality (or municipalities if the facility or its hazard distance touches multiple borders)
Municipality of Durham, City of Oshawa

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 Name of Licence Holder <u>Robert Moyer</u>	Signature <u>Prepared by</u> <u>Kalmey</u> <u>Superior Propane</u>	Date (dd-mm-yyyy) <u>17-04-2012</u>
Name of Senior Management person as defined in the Regulation holding the Record of Training <u>Robert Moyer</u>		<u>17-04-2012</u>



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SECTION A: GENERAL INFORMATION (cont'd)

Indicate the year the facility was established.
2012

Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment.
None

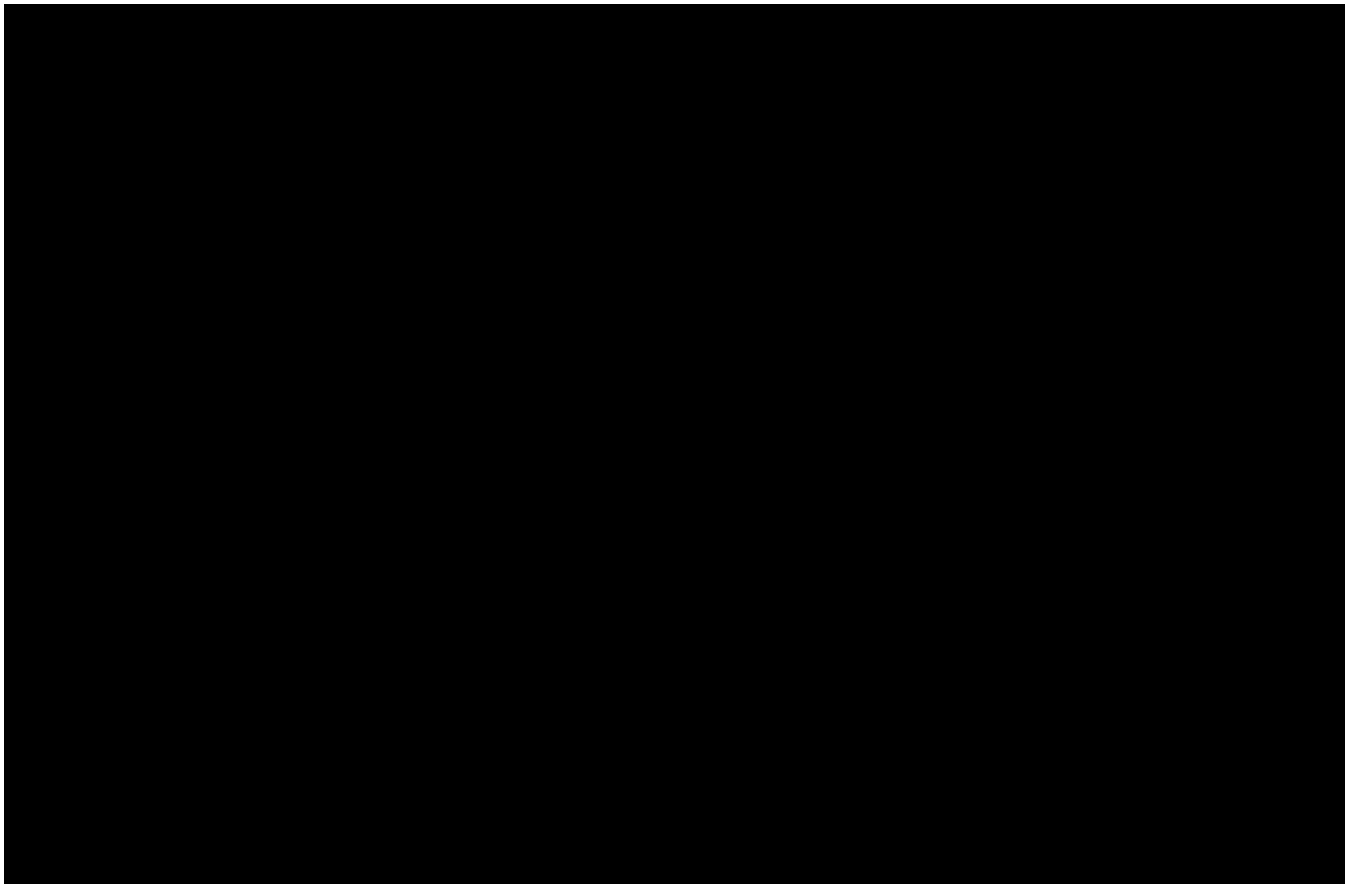
Identify the psig rating and serial number for each fixed propane storage tank on site.

	PSIG	Serial Number
Tank1:	250 PSIG	Not Available - New Construction
Tank2:	_____	Tank Unknown at this time
Tank3:	_____	_____



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: 2000 USWG Portable: 417.6 USWG Estimate Mobile: 0



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Name of person completing this form (please print) Robert Moyer	Official Title Manager of Propane Operations	
Signature <i>Robert Moyer</i>	Telephone No. 703-626-8398	Date (dd-mm-yyyy) 17-04-2012

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SECTION A: GENERAL INFORMATION (cont'd)

Activity Information

Name of Propane Supplier(s) Superior Propane - Ontario Regional Operations Centre		For Office Use - Party No.	
Street No. 251	Street Name / 911 Number / Address, if applicable Woodlawn Road West, Unit 217		
Town / City or Township / Country Guelph		Province Ontario	Postal Code N1H 8J1
Telephone No. 1-877-873-7467	Fax No. (519) 836-7766	Contact Name Bruce Graham	
E-mail GrahamB@superiorpropane.com			

Name of Propane Transporter. If same as above, please check box. <input type="checkbox"/>		For Office Use - Party No.	
Superior Propane - Whitby			
Street No. 505	Street Name / 911 Number / Address, if applicable Victoria Street		
Town / City or Township / Country Whitby		Province Ontario	Postal Code L1N 9Z3
Telephone No. 289-356-5985	Fax No. N/A	Contact Name Pierre Mousseau	
E-mail Pierre_Mousseau@superiorpropane.com			

Off-site Cylinder and/or Mobile Storage None		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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Name of person completing this form (please print) Robert Moyer	Official Title Manager of Propane Operations	
Signature <i>Prepared by Kalmey Superior Propane</i>	Telephone No. 703-626-8398	Date (dd-mm-yyyy) 17-04-2012



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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.

There is a gasoline bar located in the southeast corner of the property. The maximum amount of gasoline on-site would be 150,000 litres and it would be stored in underground tanks at the gas bar location. An MSDS for regular gasoline is provided herein, MSDS for premium gasoline and diesel are similar and not included. Please note the propane dispenser is located in the northwest corner of the property.

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

1. Fires extinguisher locations: a) on the inside pillar of the canopy by the propane filling station, b) in the tire centre c) and at tire sales.
2. Emergency stop push button locations: a) on a pedestal by the propane filling station, b) and inside the tire centre. These shut down the pump and close a solenoid valve upstream of hoses.
3. Fire Department Connection - located inside the tire centre.

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. Emergency stop push buttons - a) on a pedestal by the propane filling station, b) and inside the tire centre. These shut down the pump and close a solenoid valve upstream of hoses.
2. Power supply breaker inside the building. This cuts all power to the propane system - shuts down the pump; closes solenoid valve.
3. Fire Department Connection - immediate notification to Fire Services.
4. Fusible link on ISC valve - isolation valve between the tank and the downstream propane dispensing equipment.
5. ISC valve interlock bar (interlocked with cabinet door) - ISC valve closes when door is closed.

Maintenance and testing schedule for fire protection controls and devices.

Maintenance and testing is undertaken by Superior Propane according to Superior Propane's Maintenance Standard. Schedule for key equipment is:

1. Pumps (Pump every 3 months; Pump Motor: check belts monthly; grease motor every 6 months);
2. Fusible links - inspected every 6 months;
3. ISC Valves (test for closure every 6 months)
4. Storage tank Relief Valves - inspect every 2 years; replacement schedule as per provincial regulations.
5. Fire extinguishers maintained by Costco as per Ontario fire regulations. Maintenance records are kept in a log at the site and kept for 5 years.

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Name of person completing this form (please print) Robert Moyer	Official Title Manager of Propane Operations	
Signature Prepared by <i>Kelmay Superior Propane</i>	Telephone No. 703-626-8398	Date (dd-mm-yyyy) 17-04-2012



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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>coordinate site response</u>	

5. Facility 24-Hour Contact Person

Name <u>Robert Moyer</u>	For Office Use - Party No.
Official Title <u>Manager of Propane Operations</u>	
Cell 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>coordinate site response</u>	

2. Facility Contact Personnel - Alternate Contact

Name <u>Andy McDonald</u>	For Office Use - Party No.
Official Title <u>Regional Operations Manager</u>	
Telephone No. <u>613-221-6119</u>	Fax No. <u>N/A</u>
E-mail <u>Andy.McDonald@Costco.com</u>	
Role and responsibilities in emergency <u>coordinate site response if key contact is unavailable</u>	

6. Name of Facility Manager

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>coordinate site response</u>	

3. Local Fire Services - Key Contact

Name <u>Steve Meringer</u>	For Office Use - Party No.
Official Title <u>Fire Chief, Oshawa Fire Department</u>	E-mail <u>fire@oshawa.ca</u>
Telephone No. <u>(905) 433-1238</u>	Fax No. <u>(905) 433-0276</u>
Role and responsibilities in emergency <u>coordinate/advise on Fire Service response and liaise with police</u>	
Fire Services Address <u>Oshawa Fire Service Headquarters 199 Adelaide Ave. W. Oshawa, ON L1J7B1</u>	

7. Propane Supplier Key Contact Person

Name <u>Superior Propane Hotline</u>	For Office Use - Party No.
Official Title	E-mail
Telephone No. <u>1-877-873-7467</u>	Fax No.
Role and responsibilities in emergency <u>identify and dispatch Superior Propane and or LPERGC response personnel as required</u>	
Propane Supplier Address <u>251 Woodlawn Road West, Unit 217, Guelph, ON</u>	

4. Local Fire Services - Alternate Contact

Name <u>Carmelo Reitano</u>	For Office Use - Party No.
Official Title <u>Fire Prevention Inspector</u>	E-mail <u>creitano@oshawa.ca</u>
Telephone No. <u>(905) 436-5636 ext. 3320</u>	Fax No. <u>N/A</u>
Role and responsibilities in emergency <u>assist with the coordination of Fire Service response and liaise with police</u>	
Fire Services Address <u>Oshawa Fire Services 199 Adelaide Ave. W. Oshawa, ON L1J 7B1</u>	

8. Municipal Contact

Name <u>Sandra Kranc</u>	For Office Use - Party No.
Official Title <u>City Clerk, City of Oshawa</u>	
Telephone No. <u>(905) 436-3311</u>	Fax No. <u>(905) 436-5697</u>
E-mail <u>service@oshawa.ca</u>	
Municipality Name and Address <u>City of Oshawa, 50 Centre Street S., 5th Floor Rundle Tower, Oshawa, ON L1H 3Z7</u>	

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Name of person completing this form (please print) <u>Robert Moyer</u>	Official Title <u>Manager of Propane Operations</u>
Signature <u>Prepared by Kalmey Superior Propane</u>	Telephone No. <u>703-626-8398</u>
	Date (dd-mm-yyyy) <u>14-07-2012</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.

Emergency Shut Off push buttons (3) to shut down pump and close solenoid valve upstream of dispensing hoses - located at the first is located on the pedestal under the canopy, the second is located on the tire bay wall across from the site, and the third is located inside the tire bay on the motor control box, where the alarm is located.

(Fire Suppression System - (fire sprinkler system) inside Costco building.)

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Name of person completing this form (please print) Robert Moyer	Official Title Manager of Propane Operations	Date (dd-mm-yyyy) Revised 15-05-2012
Signature <i>Kalmey of Superior Propane</i>	Telephone No. 703-626-8398	



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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-mm-yyyy) TBA - New Site	Print Name of Training Provider: <u>Costco - Standard Costco Safety Training</u>
	Print Name of Instructor: <u>To Be Arranged</u>
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

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

Training Date (dd-mm-yyyy) TBA - New Site	Print Name of Training Provider: <u>Costco - Standard Costco Safety Training</u>
	Print Name of Instructor: <u>To Be Arranged</u>
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mm-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-mm-yyyy) TBA as Required	Print Name of Training Provider: <u>FSN Training or Other</u>	PLEASE NOTE: a ROT is valid for 3 years
	Print Name of Instructor: <u>To Be Arranged as Required</u>	
Training Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	
Training Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	

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Name of person completing this form (please print) Robert Moyer	Official Title Manager of Propane Operations
Signature <i>Prepared by Kalmey Superior Propane</i>	Telephone No. 703-626-8398 Date (dd-mm-yyyy) 17-04-2012



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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-mm-yyyy) TBA - New Site	Print Name of Training Provider: <i>Costco - Standard Costco Safety Training</i>
	Print Name of Instructor: <i>To Be Arranged</i>
Target Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Target Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

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

Target Date (dd-mm-yyyy) TBA - New Site	Print Name of Training Provider: <i>Key site contact to train staff</i>
	Print Name of Instructor: <i>To Be Arranged</i>
Target Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Target Date (dd-mm-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-mm-yyyy) TBA as Required	Print Name of Training Provider: <i>FSN Training or Other</i>	PLEASE NOTE - a ROT is valid for 3 years
	Print Name of Instructor: <i>To Be Arranged as Required</i>	
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	

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Name of person completing this form (please print) <i>Robert Moyer</i>	Official Title <i>Manager of Propane Operations</i>
Signature <i>Prepared by Kalmey Superior Propane</i>	Telephone No. <i>703-626-8398</i> Date (dd-mm-yyyy) <i>17-04-2012</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 (to be posted at site and be part of employee training). If it is safe to do so, this could involve advising neighbors to evacuate. The key contact will also contact Superior Propane via the emergency number identified 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 should first follow the actions in the ERP's provided herein. Staged evacuation, if the release of propane cannot be stopped by cutting electrical power may be required. The initial muster location will be at the traffic lights at the intersection of Ritson Road and William Street. Away from the site and away from a 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 to 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 operational, site staff will be on duty and be in the propane tank area. The Key Contact or alternate will be implementing ER actions and notifications, including notifying emergency responders. Calling 911 will occur 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 propane system is unattended, but is shutdown.
Any accidents involving the propane tank during such times will require the intervention of random, nearby individuals.

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 Ritson Road North.
The access routes for fire trucks are identified in the attached site plan.

Describe how the licence holder will ensure continual flow of updated information to authorities.
The critical information required from the license holder is information on how to shut the system down and the fill level in the tank (if known).
This information will be provided by key contact, Robert Moyer, or his alternate, Andy McDonald, either verbally if on-site or by cell phone during off hours.
Fill level is relevant from a time-to-BLEVE perspective (a near empty tank will BLEVE sooner than a full tank if there is fire impingement on the tank).

How long will it take the facility liaison person to respond to the site.
It would take Andy McDonald, approximately 60 minutes to arrive on site after having received the emergency call.

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Name of person completing this form (please print) Robert Moyer	Official Title Manager of Propane Operations	
Signature <i>Prepared by Kalmey Superior Propane</i>	Telephone No. 703-626-8398	Date (dd-mm-yyyy) 17-04-2012



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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?	<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>75m (Division St.)</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>

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Signature <i>Prepared by Kalmev Superior Propane</i>	Telephone No. 703-626-8398	Date (dd-mm-yyyy) 17-04-2012



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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:

To be completed by the Licence Holder

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

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

LOCAL FIRE SERVICES

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

Print name Local Fire Services Name <i>Susan King</i>	Signature <i>Susan King</i>	Date (dd-mm-yyyy) <i>22-05-12</i>
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Signature <i>Prepared by Kalmey Superior Propane</i>	Telephone No. 703-626-8398	



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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-mm-yyyy) 29-02-2012	Capacity of single largest propane storage vessel (USWG) 2000 USWG
Tank setback coordinates. Indicate placement on the map.	
Front: <u>179 m</u>	Right side property line: <u>35 m</u>
Rear: <u>65 m</u>	Left side property line: <u>185 m</u>
GPS coordinates of single largest vessel: <u>Lat. 43.903321 Long. -78.858267</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) Robert Moyer	Official Title Manager of Propane Operations	
Signature <i>Prepared by Kalmey Superior Propane</i>	Telephone No. 703-626-8398	Date (dd-mm-yyyy) 17-04-2012



Technical Standards and Safety Authority
www.tssa.org

14th Floor - Centre Tower
3300 Bloor Street West
Toronto Ontario M8X 2X4
Fax: 416.231.4903
Customer Service: 1.877.682.8772

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

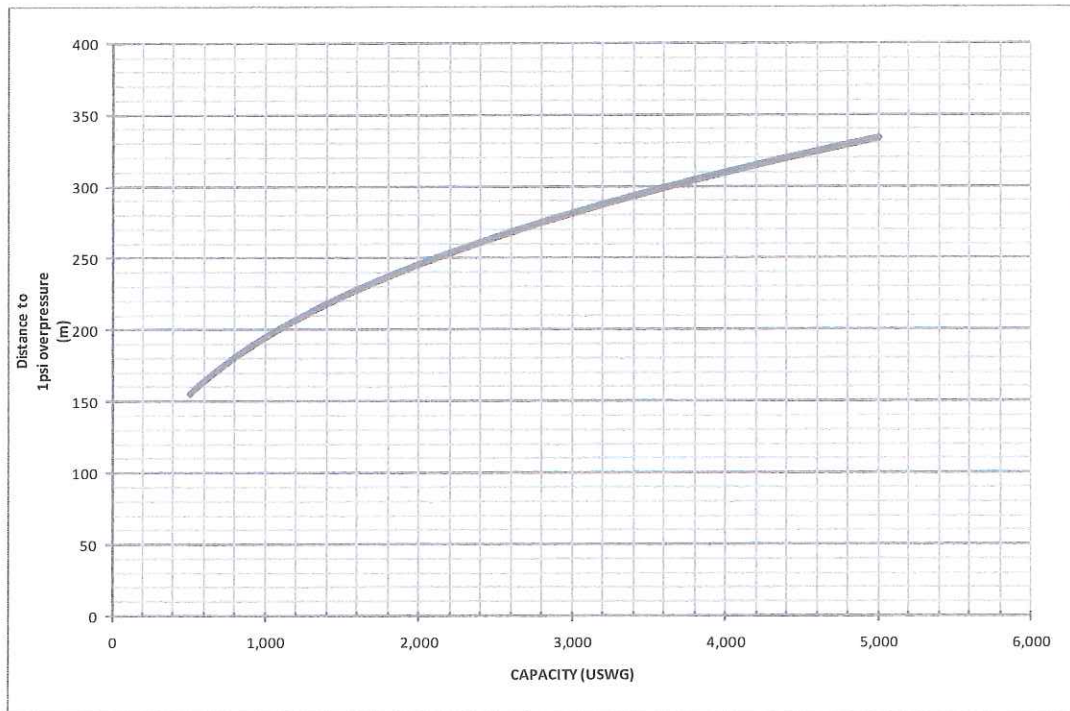
Table 1: Distance Table

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)





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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>None within Hazard Distance</u> Address: _____ City: _____ Province _____ Postal Code _____	X				<u>0</u> m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. [REDACTED]			X		<u>75</u> m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>Costco Warehouse Store (The Lunch Box Deli, Mills Vehicle Sales & Service, and others nearby</u> Address: <u>130 Ritson Road North</u> located near Ritson Rd & William St.) City: <u>Oshawa</u> Province <u>ON</u> Postal Code _____			X		<u>30</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 in Hazard Distance (Police @105 Agnes Street, aprox. 775m and Oshawa Markham</u> Address: <u>Ambulance Service @ 400 Ritson Road North, approx. 816 m from site)</u> City: _____ Province _____ Postal Code _____	X				<u>0</u> 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) Robert Moyer	Official Title Manager of Propane Operations
Signature <i>Prepared by Kalmev Superior Propane</i>	Telephone No. 703-626-8398
	Date (dd-mm-yyyy) 17-04-2012



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WORKSHEET

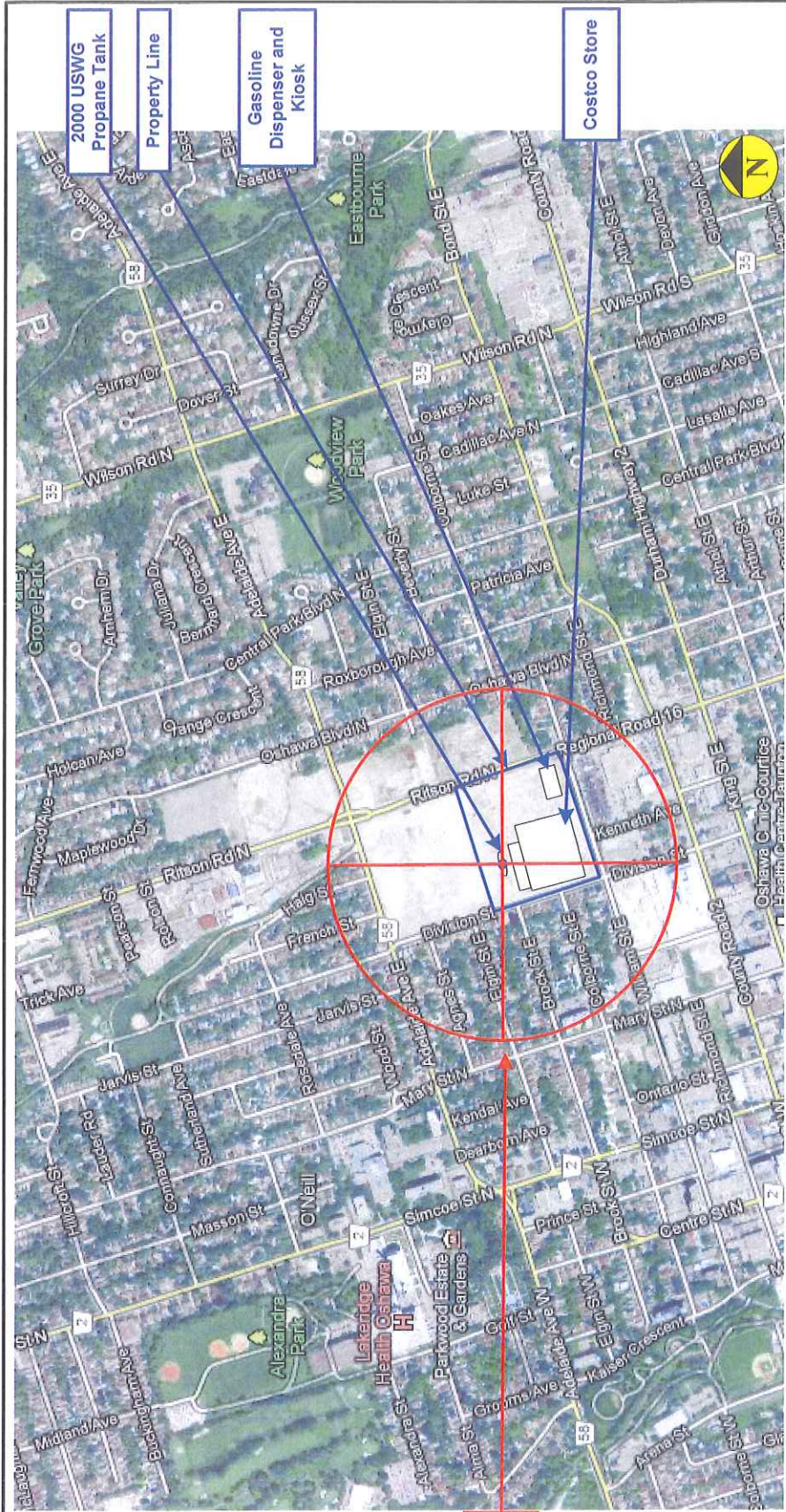
Portable Storage Additional Information Worksheet

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			417.6 USWG

Tanks Stored On-site Not Connected for Use

Tank Size In USWG	Quantity	Total Volume in USWG
Total Tank Capacity		0 USWG

Total Cylinder Capacity	417.6 USWG
Total Tank Capacity	0 USWG
Total Portable Capacity (Total Cylinder Capacity + Total Tank Capacity)	417.6 USWG



2000 USWG Propane Tank

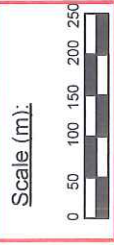
Property Line

Gasoline Dispenser and Kiosk

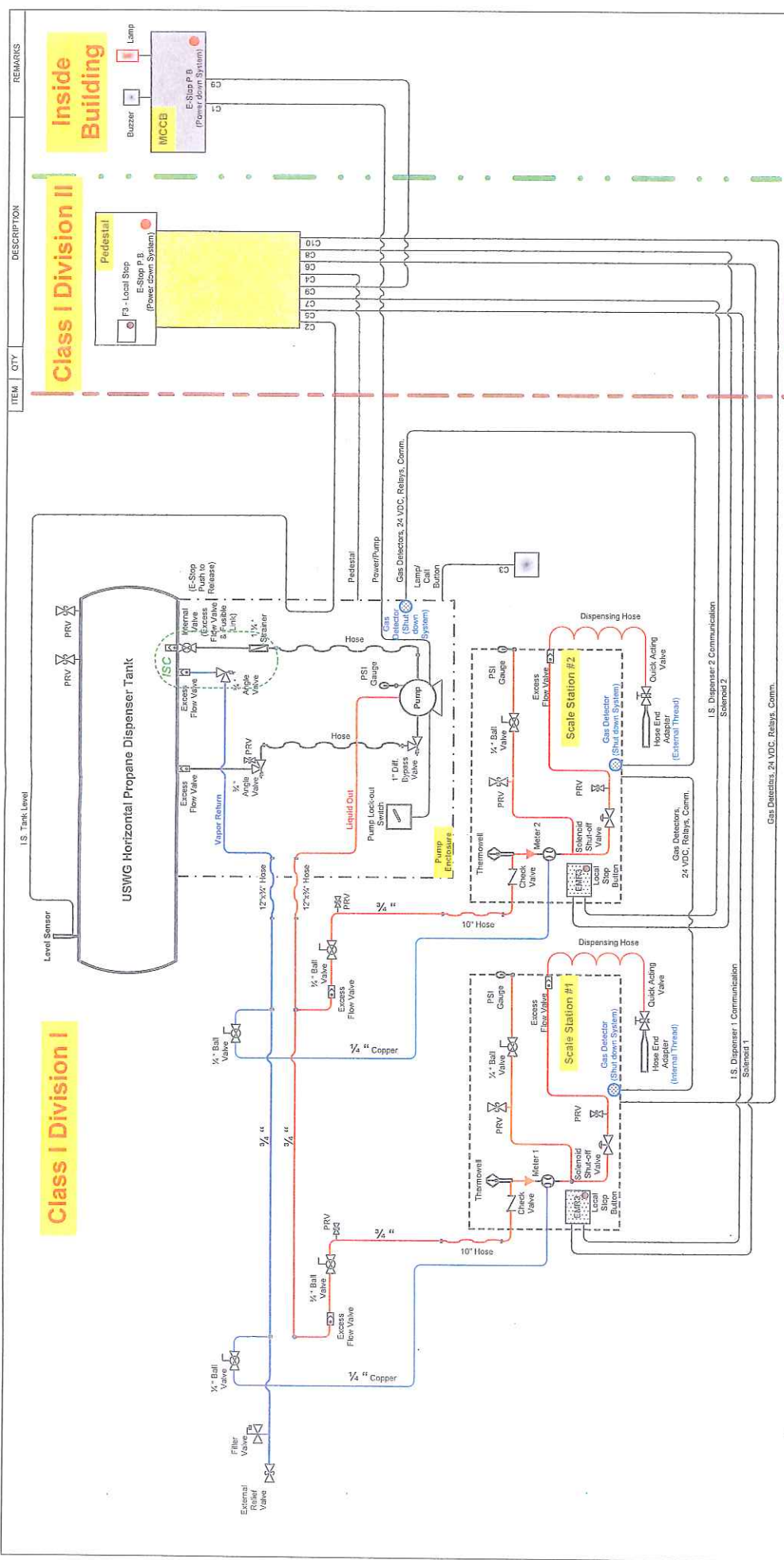
Costco Store

Hazard Distance = 246 m

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 ©2011 Digital Globe, Cnes/Spot Image, First Base Solutions,
 Map data ©2011 Google, Tele Atlas



<p>Setback Distances to Site Boundary</p> <p>West 65 m East 179 m South 185 m North 35 m</p>	<p>Capacity of Propane Storage Tank</p> <p>Capacity of Propane Storage Tank = 2000 USWG</p>	<p>Municipality (ies) within the 1 psi overpressure circle:</p> <p>Municipality of Durham/City Of Oshawa</p>	<p>Map of Surrounding Area</p>
<p>Capacity of Propane Storage Tank</p> <p>Capacity of Propane Storage Tank = 2000 USWG</p>	<p>Municipal Contact:</p> <p>Sandra Kranc City Clerk, City of Oshawa 50 Centre Street South, 5th Flr, Rundle Tower, Oshawa ON, L1H 3Z7 Tel: 905 436 3311 Fax: 905 436 5697 email: Service@oshawa.ca</p>	<p>Municipal Contact:</p> <p>Sandra Kranc City Clerk, City of Oshawa 50 Centre Street South, 5th Flr, Rundle Tower, Oshawa ON, L1H 3Z7 Tel: 905 436 3311 Fax: 905 436 5697 email: Service@oshawa.ca</p>	<p>Costco Wholesale Limited 130 Ritson Road North, Oshawa, Ontario L1G 1Z7</p>
<p>GPS Co-ordinates of Propane Storage Tank</p> <p>GPS Co-ordinates = 43.903321, -78.858267</p>	<p>Circular Distance to 1 psi overpressure:</p> <p>Denoted by circle centred on tank; radial distance = 246 m</p>	<p>Drawn by: G. Brindisi Date: February 29, 2012</p>	



Class I Division I

Class I Division II

Inside Building

TMS

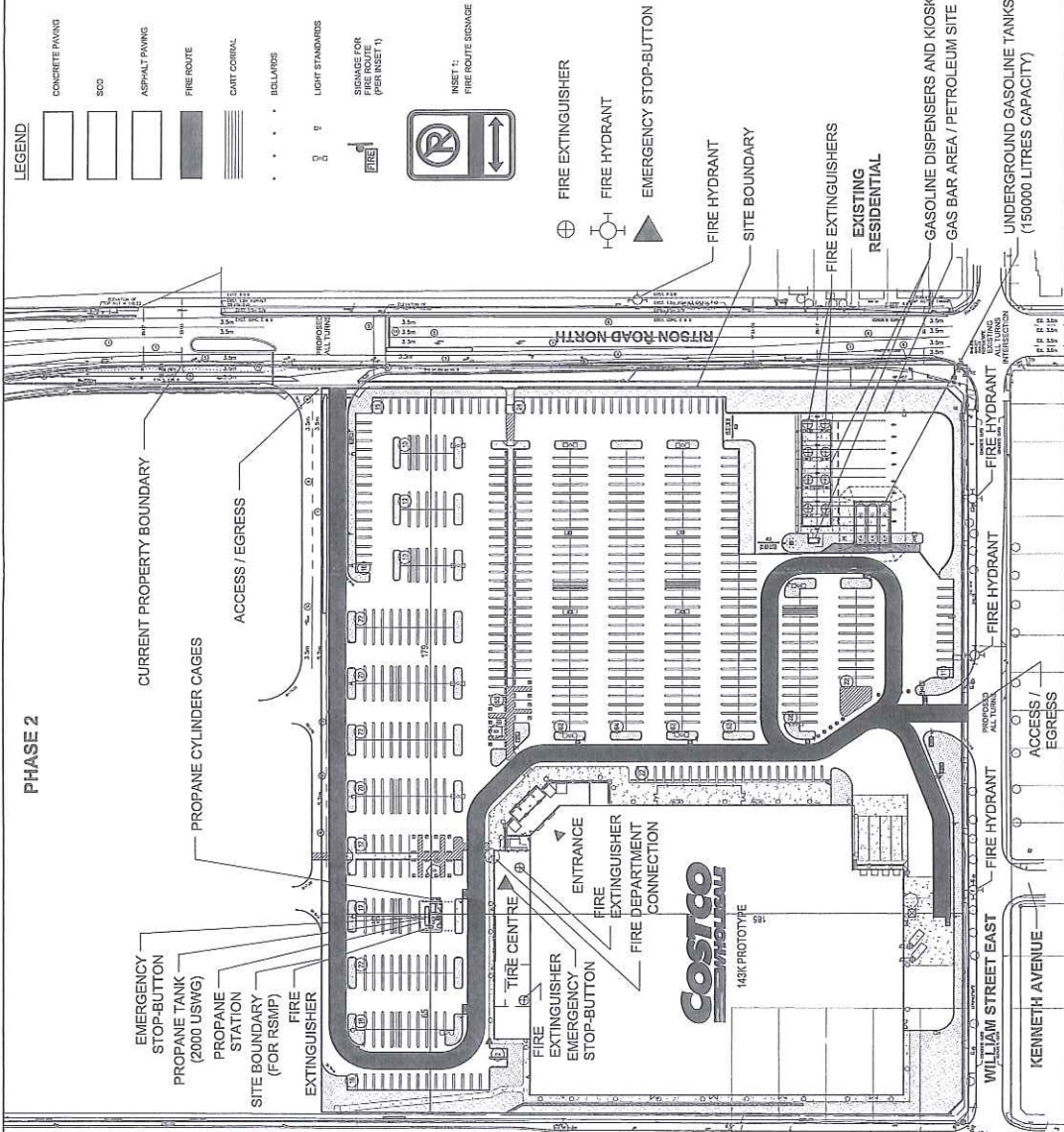
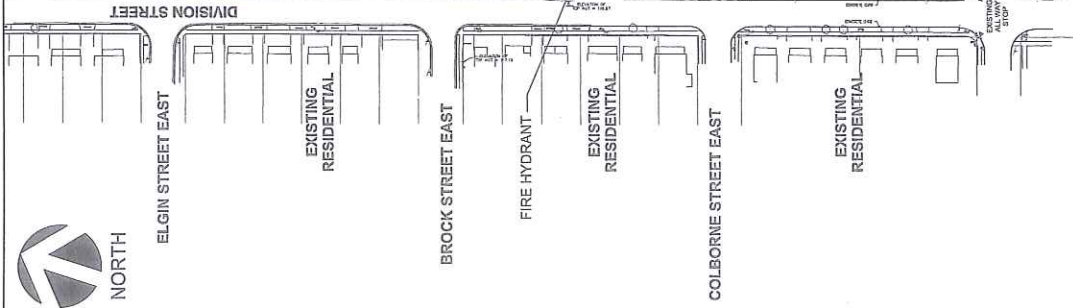
TOTAL METER SERVICES INC.
150 CREDITSTONE ROAD
VAUGHAN ONTARIO CANADA, L4K 1P2
PHONE: 905-669-7011 FAX: 905-669-7010

COSTCO PROJECT

DESCRIPTION
Piping and Instrumentation Diagram (P&ID)

DWG
T-0637-E6019

FULL FILENAME	C:\DOCUMENTS AND SETTINGS\CATANGUIDE\SR\TOP\COSTCO INSTALLATION DRAWINGS\REV 20110725-JC.VSD	REVISIONS		DRAWING ISSUE RECORD		BY	DATE
		REVISED	7/25/2011	ISSUE	1 2 3		
REF DRAWINGS / DOCUMENTS	ENGINEER & PERMIT STAMPS			DESIGNED			
				CHECKED			
				PROCESS CHKD			
				MECHANICAL CHKD			
				STRUCTURAL CHKD			
				ELECTRICAL CHKD			
				TMS APPROVED			
				CLIENT APPROVED			
				CLIENT APPROVED			



LEGEND

[Symbol]	CONCRETE PAVING
[Symbol]	SOB
[Symbol]	ASPHALT PAVING
[Symbol]	FIRE ROUTE
[Symbol]	CURT CURB/AL
[Symbol]	BOLLARDS
[Symbol]	LIGHT STANDARDS
[Symbol]	SIGNAGE FOR FIRE ROUTE (PER INSET 1)
[Symbol]	INSET 1: FIRE ROUTE SIGNAGE



DISTANCE TO SITE BOUNDARY

NORTH	35m
SOUTH	185m
WEST	65m
EAST	179m

REVISIONS

No.	Date	Description	Drawn	Checked
1	APR 12	COORDINATE PROPRITE PAD RELOCATED	JUL	JUL
2	15 MAR 12	ISSUED FOR REVIEW	AC	DL

J+B ENGINEERING INC.
 1000 SHEPPARD AVENUE EAST
 SUITE 100
 SCARBOROUGH, ONTARIO M1S 1T7
 TEL: (416) 291-1111
 FAX: (416) 291-1112
 WWW.JBENGINEERING.COM

Costco WHOLESALE

Project: COSTCO WHOLESALE

SITE PLAN FOR RSMP

110 RITSON ROAD NORTH AT WILLIAM ST OSHAWA, ON

File No. 1000318 Scale: 1:500
 Drawn By: AC Scale: 1:250
 Checked By: JMI Street 1 of 1
 Drawing No. SP-12 RSMP Sheet Size: D