



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

- 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.

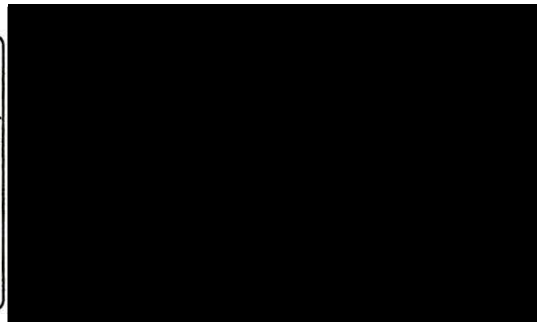
**Failure to fully complete this form may result in rejection.
 Making a false statement may result in a fine or prosecution
 under the *Technical Standards and Safety Act***

Licence Number

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 Corporation No.

Operator Name (if different from above)

Telephone No. Fax No. E-mail

B Street No. Street Name / 911 Number / Address, if applicable

Town / City or Township / County Province Postal Code

C Mailing address if different from above.

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

D Location of facility.

Street No. Street Name / 911 Number / Address, if applicable Nearest Major Intersection

Town / City or Township / County Province Postal Code

Name of Licence Holder

Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT). ROT type

Municipality (or municipalities if the facility or its hazard distance touches multiple borders)

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.

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Print name	Signature	Date (dd-mmm-yyyy)
Name of Licence Holder <input type="text" value="Jawid Fakiri"/>		<input type="text" value="09-05-2018"/>
Name of Senior Management person as defined in the Regulation holding the Record of Training <input type="text" value="Jawid Fakiri"/>		<input type="text" value="09-05-2018"/>



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SECTION A: GENERAL INFORMATION (cont'd)

Indicate the year the facility was established. <u>2009</u>	Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment. <u>none</u>
--	--

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

	PSIG	Serial Number
Tank1:	<u>250 psig</u>	_____
Tank2:	_____	_____
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: 1999 USWG Portable: 139.2 USWG Mobile: 0 USWG

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Name of person completing this form (please print) <u>Jawid Fakiri</u>	Official Title <u>Owner</u>	
Signature 	Telephone No. <u>289-821-5259</u>	Date (dd-mmm-yyyy) <u>09-05-2018</u>



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SECTION A: GENERAL INFORMATION (cont'd)

Activity Information

Name of Propane Supplier(s) Edpro Energy Group		[Redacted]		For Office Use - Party No.
Street No. 5	Street Name / 911 Number / Address, if applicable Cuddy Boulevard			
Town / City or Township / Country London			Province Ontario	Postal Code N5V 3Y3
Telephone No. 1-519-690-0000	Fax No. 1-519-690-1948	Contact Name Joe Erskine		
E-mail info@edproenergy.com				

Name of Propane Transporter. If same as above, please check box. Edpro Energy Group		[Redacted]		For Office Use - Party No.
Street No. 5	Street Name / 911 Number / Address, if applicable Cuddy Boulevard			
Town / City or Township / Country London			Province Ontario	Postal Code N5V 3Y3
Telephone No. 1-519-690-0000	Fax No. 1-519-690-1948	Contact Name Joe Erskine		
E-mail info@edproenergy.com				

Off-site Cylinder and/or Mobile Storage N/A		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.

The site has 1x1,999 USWG Vertical propane tank, 1x20lb cylinder for purging and 1 cylinder cage holding up to 24x20lb cylinders. The location is an existing car wash with one automatic tunnel car wash and 5 wash bays.

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

The facility is equipped with fire extinguishers. There is one located at the propane tank and two located in the car wash office.

There is a remote Emergency Shut down (ESD) located on one of the posts at the tank which is clearly marked. The ESD kills power to the propane and stops the motor and closes the fuel supply solenoid valve to prevent product flow.

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.

The propane tank is equipped with a fusible link connected to a chain that will melt at 212 degrees F which will break the chain and the spring loaded ISC valve will close automatically shutting off the propane suction to the pump. There is an Emergency Shut Down (ESD) located on one of the posts at the tank.

The ESD kills power to the propane and stops the motor and closes the fuel supply solenoid valve to prevent product flow.

The site has security cameras located at various locations that are monitored.

Maintenance and testing schedule for fire protection controls and devices.

The fire extinguishers are checked monthly and retested annually for proper operation. The propane equipment and ESD is inspected annually by a TSSA registered contractor. Copies of Inspection reports are keep on site.

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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 Jawid Fakiri	For Office Use - Party No.	Name Jawid Fakiri	For Office Use - Party No.
Official Title Owner		Official Title Owner	
Telephone No. 289-821-5259	Fax No. n/a	Cell No. 416-508-4017	Fax No. n/a
E-mail jawidfakiri@yahoo.ca		E-mail jawidfakiri@yahoo.ca	
Role and responsibilities in emergency Ensures that all employees are trained to work with propane and enforces the site safety plan in response to emergencies. Will make 911 call.		Role and responsibilities in emergency Same as item 1	
2. Facility Contact Personnel - Alternate Contact		6. Name of Facility Manager	
Name Ateib Abdraman	For Office Use - Party No.	Name Jawid Fakiri	For Office Use - Party No.
Official Title Assistant Manager		Official Title Owner	
Telephone No. 289-821-5259	Fax No. n/a	Telephone No. 289-821-5259	Fax No. n/a
E-mail jawidfakiri@yahoo.com		E-mail jawidfakiri@yahoo.com	
Role and responsibilities in emergency Will assist the key contact in emergencies and will assume responsibility for site liaison if key contact is away from site. Will make 911 call.		Role and responsibilities in emergency Same as item 1	
3. Local Fire Services - Key Contact		7. Propane Supplier Key Contact Person	
Name Cheri Busch	For Office Use - Party No.	Name Joe Erskine	For Office Use - Party No.
Official Title Director of Fire Prevention	E-mail cheri.busch@welland.ca	Official Title General Manager	E-mail info@edproenergy.com
Telephone No. 905-735-9922 ext 239	Fax No. 905-732-2818	Telephone No. 1-519-690-0000	Fax No. 1-519-690-1948
Role and responsibilities in emergency Coordinates all Fire Prevention Officers activities and assigns the resources as required during emergencies.		Role and responsibilities in emergency Coordinates truck deliveries and would initiate the CPA Emergency Response Plan as required.	
Fire Services Address Welland Fire&Emergency Services, 636 King Street, Welland, Ontario L3B 3L1		Propane Supplier Address 5 Cuddy Boulevard, London, Ontario N5V 3Y3	
4. Local Fire Services - Alternate Contact		8. Municipal Contact	
Name Brian Kennedy	For Office Use - Party No.	Name Tara Stephens	For Office Use - Party No.
Official Title Fire Chief	E-mail brian.kennedy@welland.ca	Official Title City Clerk	
Telephone No. 905-735-9922 ext 222	Fax No. 905-732-2818	Telephone No. 905-735-1700 ext 2159	Fax No. 905-732-1919
Role and responsibilities in emergency Will assist in co-ordination of fire services resources. Alternative contact when Director of Fire Prevention is away.		E-mail tara.stephens@welland.ca	
Fire Services Address Welland Fire&Emergency Services, 636 King Street, Welland, ON, L3B 3L1		Municipality Name and Address Corporation of the City of Welland ,60 East Main Street, Welland, Ontario L3B 3X4	

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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 Response Assistance Plan-available by contacting supplier.

The facility is built to the propane code requirements and does not have any extra features that are over and above the code. The tank is protected with concrete filled posts on all sides and has an Emergency shutdown button that will kill power to the pump and solenoid valve when pushed. Tank is in constant site of employees on the premises. Fire Equipment access is easy off of Prince Charles Street with a large area to manoeuvre trucks around.

The Site is monitored 24/7 by security cameras.

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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) 21-05-2018	Print Name of Training Provider: Promar Petroleum
	Print Name of Instructor: Mike Martin
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) 21-05-2018	Print Name of Training Provider: Promar Petroleum
	Print Name of Instructor: Mike Martin
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) 01-05-2018	Print Name of Training Provider: Promar Petroleum
	Print Name of Instructor: Mike Martin
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) 06-05-2019	Print Name of Training Provider: 1612644 Ontario Inc
	Print Name of Instructor: Jawid Fakiri
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) 06-05-2019	Print Name of Training Provider: 1612644 Ontario Inc
	Print Name of Instructor: Jawid Fakiri
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) TBD	Print Name of Training Provider: Promar Petroleum
	Print Name of Instructor: Mike Martin
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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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 attendant on site will notify the patrons at the propane facility that a problem has occurred after pressing the ESD switch and closing the ISC valve. The patrons will be asked to leave the site and the attendant will proceed to call 911 and ask for Fire Services and Police response. After the call is made, the attendant will proceed to notify any staff and proceed to the "Muster Point" on site.

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).
 After a warning is issued the attendant will block off the entrance/exits to the site. Once the area is free of customers, the staff will meet at the "Muster Point" (See Drawing P-101) and await the arrival of 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).
 Once an emergency situation is confirmed at the propane facility, the attendant will call 911 to ask for Fire and Police response. The attendant always carries a cell phone and also has access to a phone inside the office. A call will be made by any of the two means. After the call is made the attendant will await the arrival of the Emergency Responders. The RSMP document is maintained on site in the office for presentation to the Emergency Responders.

Describe provisions for fire department entry when there are no operations or staffing at the propane site.
 The site is not fenced so access to the site is always available to Emergency Responders from Prince Charles Street. The tank is located at the North East corner of the property. There are no barriers to the tank.

Describe how the licence holder will ensure continual flow of updated information to authorities.
 The attendant will always be on site during normal business hours. When Emergency Responders come to the site the attendant will identify themselves as the person who is responsible for the propane and will communicate directly with the Emergency Responders. The amount of product in the propane tank will be communicated to the Emergency Responders but daily records are not kept as it is not possible to determine the volume in a vertical propane tank as there are no gauges indicating the quantity. Only records of sales are tabulated.

How long will it take the facility liaison person to respond to the site.
 If not already on site 20 minutes.

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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 type="checkbox"/>	<input checked="" 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>60 m</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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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
<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Fire services comments, if any:

Serial number of tank required with substitution of application

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-mmm-yyyy)

LOCAL FIRE SERVICES

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

Print name	Signature	Date (dd-mmm-yyyy)
Local Fire Services Name Cheri Busch-Director of Fire Prevention	<i>CBusch</i>	19-06-2018

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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-mmm-yyyy)

LOCAL FIRE SERVICES

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

Print name	Signature	Date (dd-mmm-yyyy)
Local Fire Services Name Cheri Busch-Director of Fire Prevention		22-05-2018

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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) 01-05-2018	Capacity of single largest propane storage vessel (USWG) 1,999 USWG
Tank setback coordinates. Indicate placement on the map.	
Front: 3.05 m	Right side property line: 23 m
Rear: 71 m	Left side property line: 18 m
GPS coordinates of single largest vessel: Lat43°44'46.28"N Long79°36'21.67"W	

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) Jawid Fakiri	Official Title Owner
Signature 	Telephone No. 289-821-5259
	Date (dd-mmm-yyyy) 09-05-2018



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

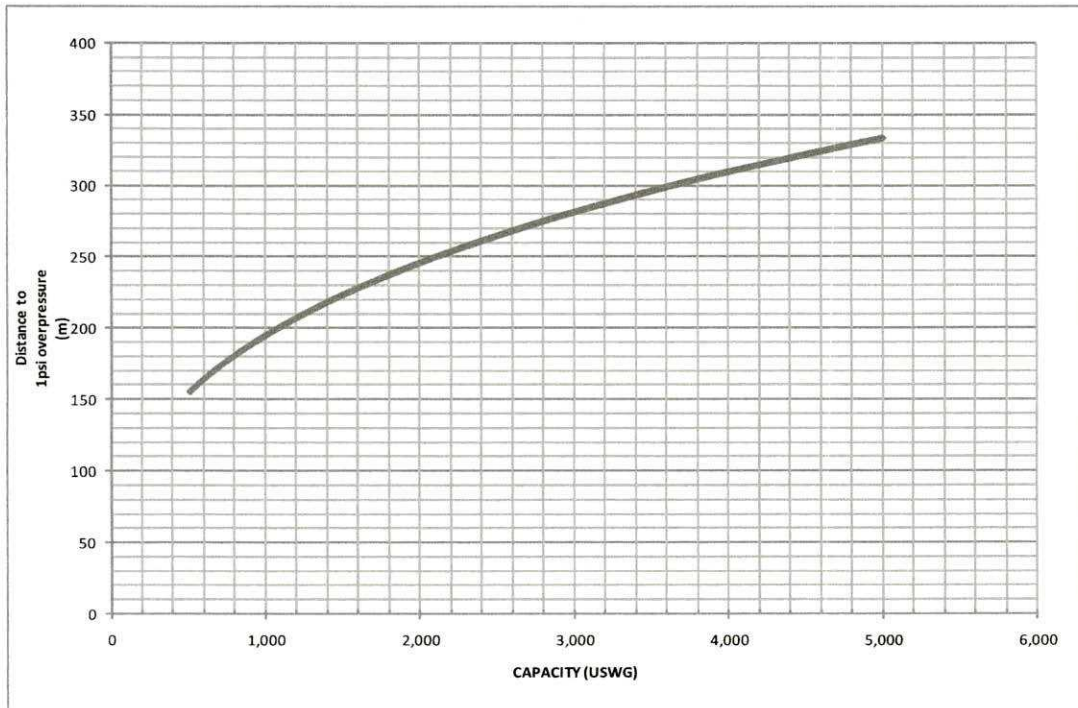
Table 1: Distance Table

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)





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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: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. [Redacted]				X	97 m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>Tim Hortons</u> Address: <u>90 Lincoln Street</u> City: <u>Welland</u> Province <u>Ontario</u> Postal Code _____				X	26 m
Commercial building units – continuous occupancy specifically hotels, campgrounds, and resorts. Name: _____ 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: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m
Emergency responders specifically fire stations, ambulance stations, and police stations. Name: _____ 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) <u>Jawid Fakiri</u>	Official Title <u>Owner</u>
Signature 	Telephone No. <u>289-821-5259</u>
	Date (dd-mmm-yyyy) <u>09-05-2018</u>



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WORKSHEET

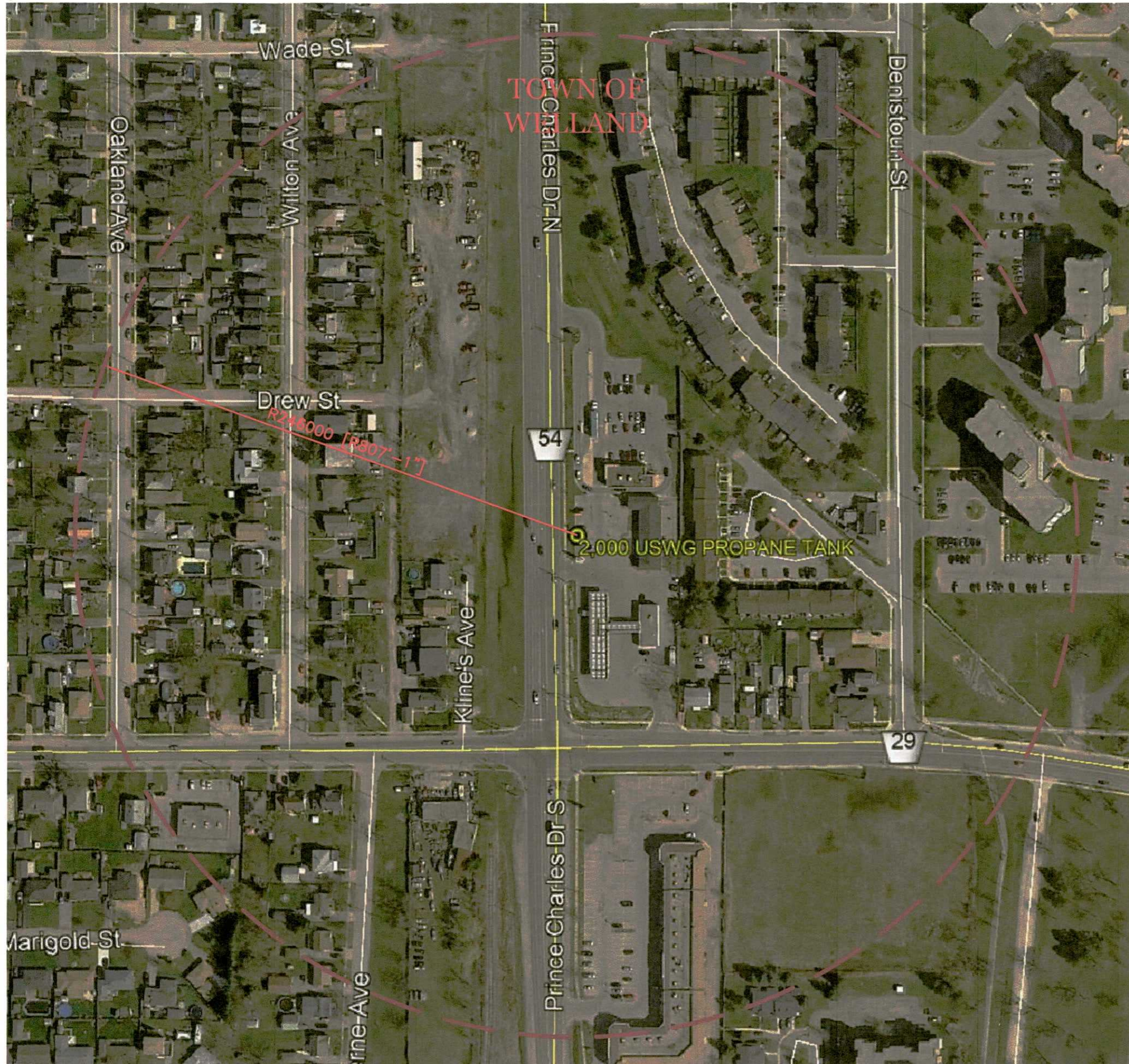
Portable Storage Additional Information Worksheet

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	24	156.6 USWG
# 10	2.9		
# 5	1.5		
Total Cylinder Capacity			139.2 USWG

Tanks Stored On-site Not Connected for Use

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

Total Cylinder Capacity	139.2 USWG
Total Tank Capacity	0 USWG
Total Portable Capacity (Total Cylinder Capacity + Total Tank Capacity)	139.2 USWG



KEY PLAN
SCALE: N.T.S.

NOTES:

CONSEQUENCE DISTANCE TO AN OVERPRESSURE LEVEL OF 1 psi BASED ON TNT-EQUIVALENCY METHOD, AS PER T.S.S.A. GUIDELINES FOR THE IMPLEMENTATION OF THE RISK AND SAFETY MANAGEMENT PLAN

$$D = 17 \times \left(0.1 \times W_p \times \frac{HC_T}{HC_{TNT}} \right)^{1/3} = 244m$$

PROPERTY LINE SETBACKS FOR PROPANE TANK

NORTH	92.8m
SOUTH	25.8m
EAST	47.3m
WEST	6.4m

GPS COORDINATES

LATITUDE	LONGITUDE
42°59'5.85"N	79°15'31.39"W

AS PER TSSA GUIDELINES FOR THE IMPLEMENTATION OF THE RISK AND SAFETY MANAGEMENT PLAN, THIS FACILITY ONLY REQUIRES A LEVEL 1 RSM SUBMISSION.

PLANNING ADVISORY INFORMATION:

AS PER TSSA GUIDELINES THE FOLLOWING PLANNING INFORMATION IS PRESENTED BELOW.

CITY OF WELLAND
INFRASTRUCTURE AND DEVELOPMENT SERVICES
PLANNING AND BUILDING DIVISION
60 EAST MAIN STREET,
WELLAND, ON.
L3B 3X4

ATTN: MS. TARA STEPHENS, CITY CLERK
PH#: 905.735.1700 EXT: 2159
FAX#: 905.732.1919
EMAIL: tara.stephens@welland.ca

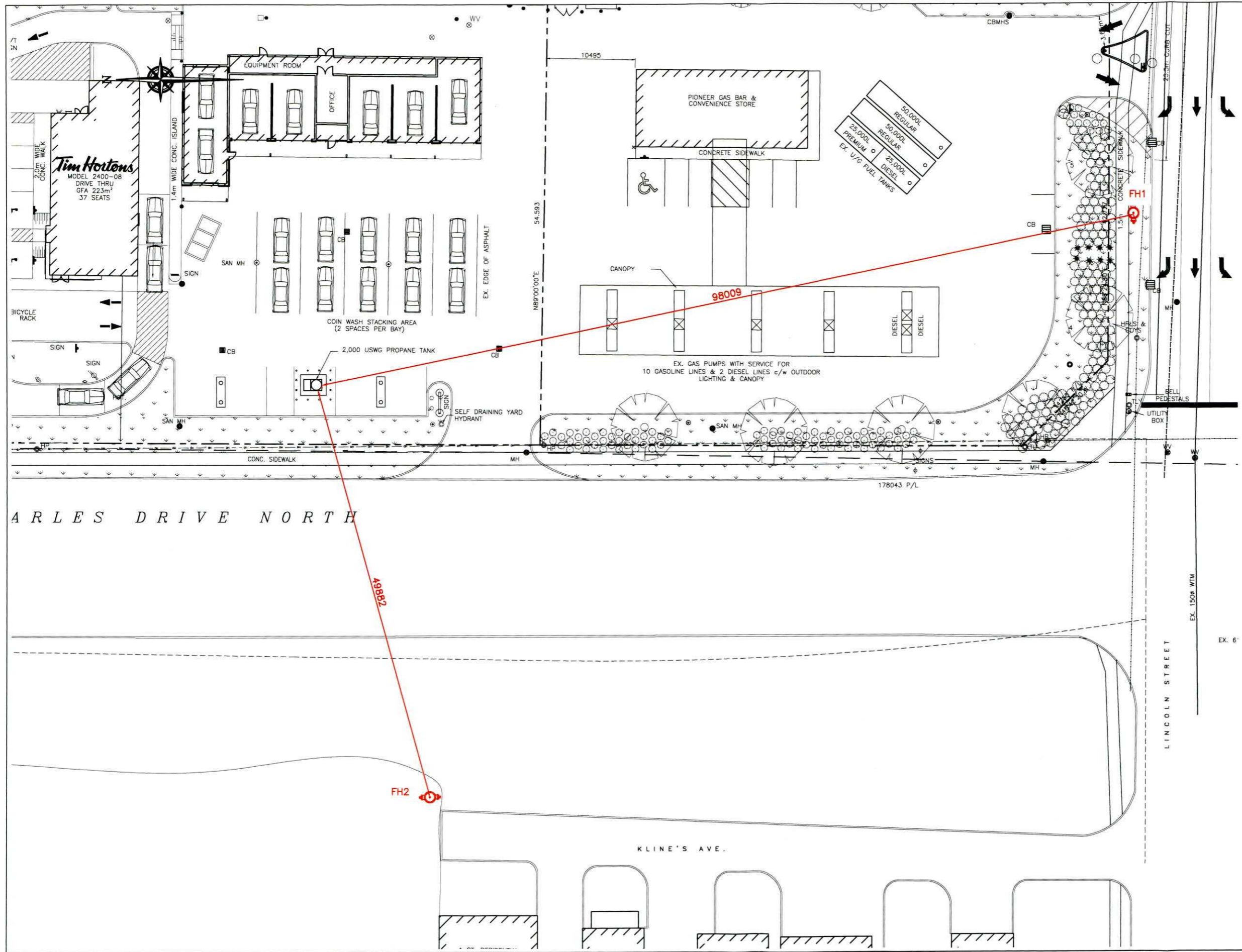
0	2018.05.22	ISSUED FOR RSM APPROVAL	JRK
No.	Date	Description	By

REVISIONS

1612644 Ontario Inc.

ALTENG Inc.
Alternative Energy Consulting
126 Holm Crescent, Thornhill, Ontario L3T 5J3
Telephone: (905)764-1644 Fax: (905)764-5986

Project: 1612644 Ontario Inc. 42 Prince Charles Drive North Welland, ON. L3C 5J7	Drawn By: D.F. Checked By: J.R.K. Date: 2018.05.22
Drawing Title: BLAST RADIUS LAYOUT FOR 2,000 USWG VERTICAL PROPANE TANK c/w RETAIL CYLINDER SCALE	Drawing Scale: AS SHOWN
Drawing Number: P-200	File Number: 18110D
	ACAD INFORMATION Drawing File: 18110D-P-200 Drawing Size: D Plotting Scale: 1=1



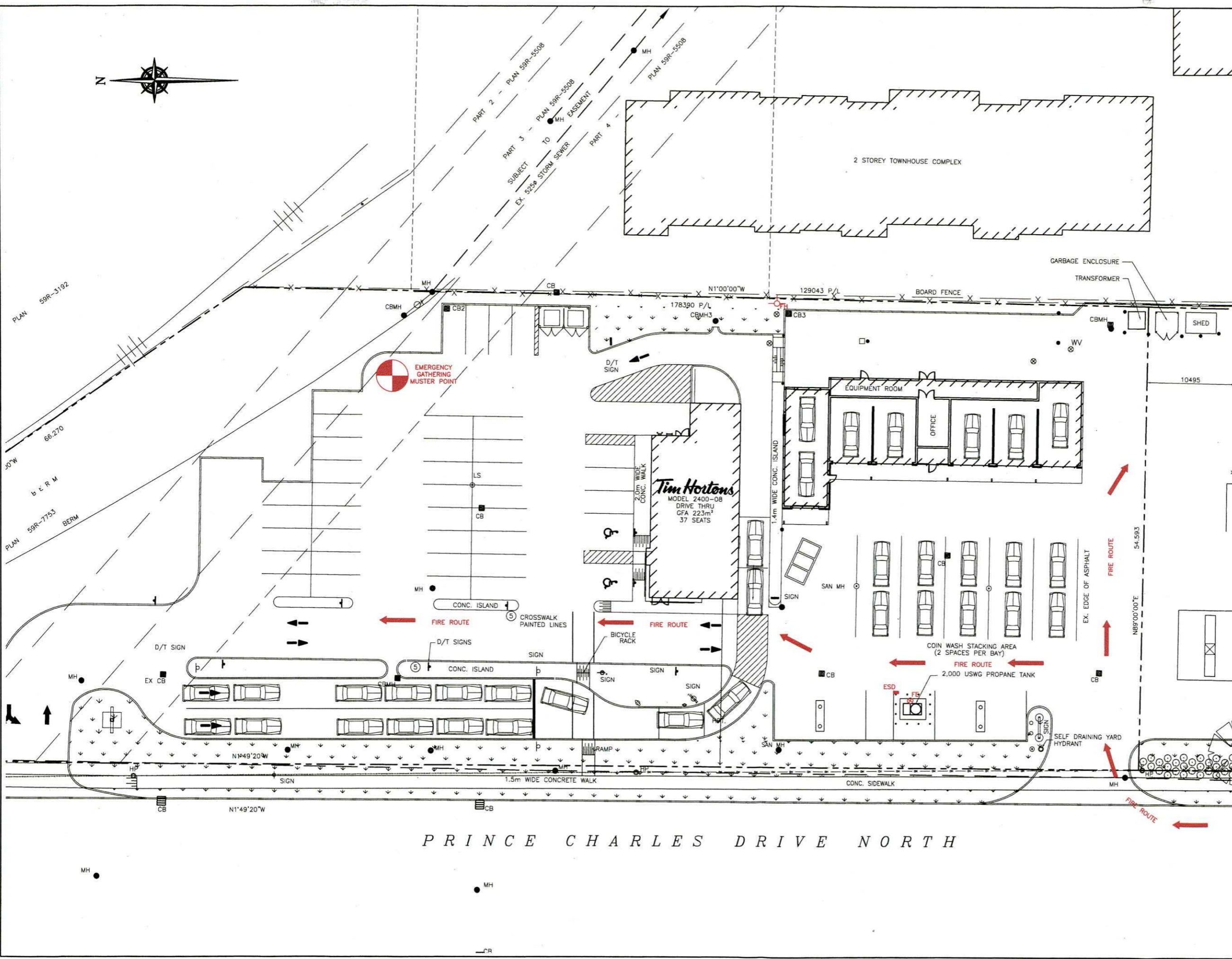
ITEM	DISTANCE (m)
FH1	98.8m
FH2	49.8m

No.	Date	Description	By
0	2018.06.18	ISSUED FOR WELLAND FIRE SERVICES	JRK

1612644 Ontario Inc.

ALTENG Inc.
 Alternative Energy Consulting
 126 Holm Crescent, Thornhill, Ontario L3T 5J3
 Telephone: (905)764-1644 Fax: (905)764-5986

Project: 1612644 Ontario Inc. 42 Prince Charles Street North Welland, ON. L3C 5J7	Drawn By: D.F. Checked By: J.R.K. Date: 2018.06.18
Drawing Title: FIRE HYDRANTS LOCATION FROM 2,000 USWG VERTICAL PROPANE TANK	Drawing Scale: 1:200 ACAD INFORMATION Drawing File: 181100-P-103 Drawing Size: D Plotting Scale: 1=1
Drawing Number: P-103	File Number: 18110D



KEY PLAN
SCALE: N.T.S.

SITE DATA:

ZONING INFORMATION: COMMUNITY COMMERCIAL CORRIDOR - CC2
 LOT AREA: 8,634.9sq.m.
 BUILDING AREA: 605.8sq.m.
 LOT COVERAGE OF BUILDING: 7.0%

PROPERTY LINE SETBACKS FOR PROPANE TANK

NORTH	92.8m
SOUTH	25.8m
EAST	47.3m
WEST	6.4m

GPS COORDINATES

LATITUDE	LONGITUDE
42°59'5.85"N	79°15'31.39"W

LEGEND:

- FE ⊗ FIRE EXTINGUISHER
- FH ⊕ FIRE HYDRANT
- ESD ■ EMERGENCY SHUT-DOWN
- ➔ FIRE ROUTE
- ⊗ MUSTER POINT (OPTION BASED ON WIND DIRECTION)

No.	Date	Description	By
0	2018.05.22	ISSUED FOR RSMP APPROVAL	JRK

REVISIONS

1612644 Ontario Inc.

ALTENG Inc.
 Alternative Energy Consulting
 126 Holm Crescent, Thornhill, Ontario L3T 5J3
 Telephone: (905)764-1644 Fax: (905)764-5986

Project: 1612644 Ontario Inc. 42 Prince Charles Drive North Welland, ON. L3C 5J7	Drawn By: D.F. Checked By: J.R.K. Date: 2018.05.22
Drawing Title: EMERGENCY FIRE PLAN FOR 2,000 USWG VERTICAL PROPANE TANK c/w RETAIL CYLINDER SCALE	Drawing Scale: AS SHOWN
Drawing Number: P-101	File Number: 18110D
	ACAD INFORMATION Drawing File: 18110D-P-101 Drawing Size: D Plotting Scale: 1=1

PRINCE CHARLES DRIVE NORTH