



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         New Site        

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.

**For Office Use Only**

**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         A         2615650 Ontario Inc. Corporation No.         2615650        

Operator Name (if different from above)  
        o/a Pioneer Gas Bar        

Telephone No.         647-865-6834         Fax No.         n/a         E-mail         kettanan@santangroup.ca        

**B** Street No.         2350         Street Name / 911 Number / Address, if applicable         Dundas Street        

Town / City or Township / County         London         Province         Ontario         Postal Code         N5V 1R5        

Mailing address if different from above.

**C** Street No.         2350         Street Name / 911 Number / Address, if applicable         Dundas Street        

Town / City or Township / County         London         Province         Ontario         Postal Code         N5V 1R5        

**Information on Container Refill Centre or Filling Plant**

Location of facility.

**D** Street No.         2350         Street Name / 911 Number / Address, if applicable         Dundas Street         Nearest Major Intersection         Dundas Street/Crumlin Sideroad        

Town / City or Township / County         London         Province         Ontario         Postal Code         N5V 1R5        

Name of Licence Holder         Kettanan Santan        

Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT).         Kettanan Santan         ROT type         100-01        

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

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 Name of Licence Holder <u>        Kettanan Santan        </u>	Signature 	Date (dd-mmm-yyyy) <u>        10-05-2018        </u>
Name of Senior Management person as defined in the Regulation holding the Record of Training <u>        Kettanan Santan        </u>		<u>        10-05-2018        </u>



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**SECTION A: GENERAL INFORMATION (cont'd)**

Indicate the year the facility was established.      Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment.  
 2018      none

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

	PSIG	Serial Number
Tank 1:	250 psig	122-18
Tank 2:	_____	_____
Tank 3:	_____	_____

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

Fixed: 1999 USWG      Portable: 139.2 USWG      Mobile: 0 USWG

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Name of person completing this form (please print) Kettanan Santan	Official Title Manager	
Signature 	Telephone No. 647-865-6834	Date (dd-mmm-yyyy) 10-05-2018



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**SECTION A: GENERAL INFORMATION (cont'd)**

Activity Information

<b>Name of Propane Supplier(s)</b> Edpro Energy Group		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			

<b>Name of Propane Transporter.</b> If same as above, please check box. <input type="checkbox"/>		For Office Use - Party No.	
Edpro Energy Group			
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			

<b>Off-site Cylinder and/or Mobile Storage</b> 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 has underground gasoline storage tanks Regular-100,000 Litres, Premium 25,000 Litres and Diesel 25,000 Litres. All underground tanks are fiberglass double walled protected.

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, three located at the gasoline islands and two located in the c-store. 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 kept on site.

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

1. Contacts for Emergency Response

<b>1. Facility Contact Personnel - Key Contact</b>		<b>5. Facility 24-Hour Contact Person</b>	
Name Kettanan Santan	For Office Use - Party No.	Name Kettanan Santan	For Office Use - Party No.
Official Title Manager		Official Title Manager	
Telephone No. 647-865-6834	Fax No. n/a	Cell No. 647-865-6834	Fax No. n/a
E-mail kettanan@santangroup.ca		E-mail kettanan@santangroup.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	
<b>2. Facility Contact Personnel - Alternate Contact</b>		<b>6. Name of Facility Manager</b>	
Name Remesh Senthilnathan	For Office Use - Party No.	Name Kettanan Santan	For Office Use - Party No.
Official Title Assistant Manager		Official Title Manager	
Telephone No. 416-888-8650	Fax No. n/a	Telephone No. 647-865-6834	Fax No. n/a
E-mail suncityplaza1@gmail.com		E-mail kettanan@santangroup.ca	
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	
<b>3. Local Fire Services - Key Contact</b>		<b>7. Propane Supplier Key Contact Person</b>	
Name Denise Rose	For Office Use - Party No.	Name Joe Erskine	For Office Use - Party No.
Official Title Assistant Chief Fire Prevention Officer	E-mail drose@london.ca	Official Title General Manager	E-mail info@edproenergy.com
Telephone No. 1-519-661-2489 ext 2482	Fax No. 1-519-661-8419	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 400 Horton Street East, 3rd Floor, London, Ontario N6B 1L7		Propane Supplier Address 5 Cuddy Boulevard, London, Ontario N5V 3Y3	
<b>4. Local Fire Services - Alternate Contact</b>		<b>8. Municipal Contact</b>	
Name Dianne Lebold	For Office Use - Party No.	Name Cathy Saunders	For Office Use - Party No.
Official Title Assistant Chief Fire Prevention Officer	E-mail dlebold@london.ca	Official Title City Clerk	
Telephone No. 1-519-661-2489 ext 4996	Fax No. 1-519-661-8419	Telephone No. 1-519-661-2489 ext 4937	Fax No. 1-519-661-4892
Role and responsibilities in emergency Will assist in co-ordination of fire services resources. Alternative contact when key contact is away.		E-mail csaunders@london.ca	
Fire Services Address 400 Horton Street East, 3rd Floor, London, Ontario N6B 1L7		Municipality Name and Address City of London 300 Dufferin Ave., P.O. Box 5035, London, Ontario, N6A 4L9	

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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 Dundas 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) 30-05-2018	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) 30-05-2018	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) 30-05-2018	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) 21-05-2019	Print Name of Training Provider: 2615650 Ontario Inc
	Print Name of Instructor: Kettanan Santan
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) 21-05-2019	Print Name of Training Provider: 2615650 Ontario Inc
	Print Name of Instructor: Kettanan Santan
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 Dundas 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 as the site operates 24/7. 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)		64 m
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)		N/A

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Signature 	Telephone No. 647-865-6834
	Date (dd-mmm-yyyy) 13-08-2018



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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 Denise Rose-Assistant Chief Fire Prevention

24-05-2018

19/10/2018 DR

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Name of person completing this form (please print)

Kettanan Santan

Official Title

Manager

Signature

Telephone No.

647-865-6834

Date (dd-mmm-yyyy)

10-05-2018



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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) 04-07-2018	Capacity of single largest propane storage vessel (USWG) 1,999 USWG
Tank setback coordinates. Indicate placement on the map.	
Front: <u>49.3 m</u>	Right side property line: <u>6.6 m</u>
Rear: <u>18.0 m</u>	Left side property line: <u>60.2 m</u>
GPS coordinates of single largest vessel: <u>Lat:43°0'45.69"N Long:81°8'54.54"W</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) Kettanan Santan	Official Title Manager
Signature 	Telephone No. 647-865-6834
	Date (dd-mmm-yyyy) 13-08-2018



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

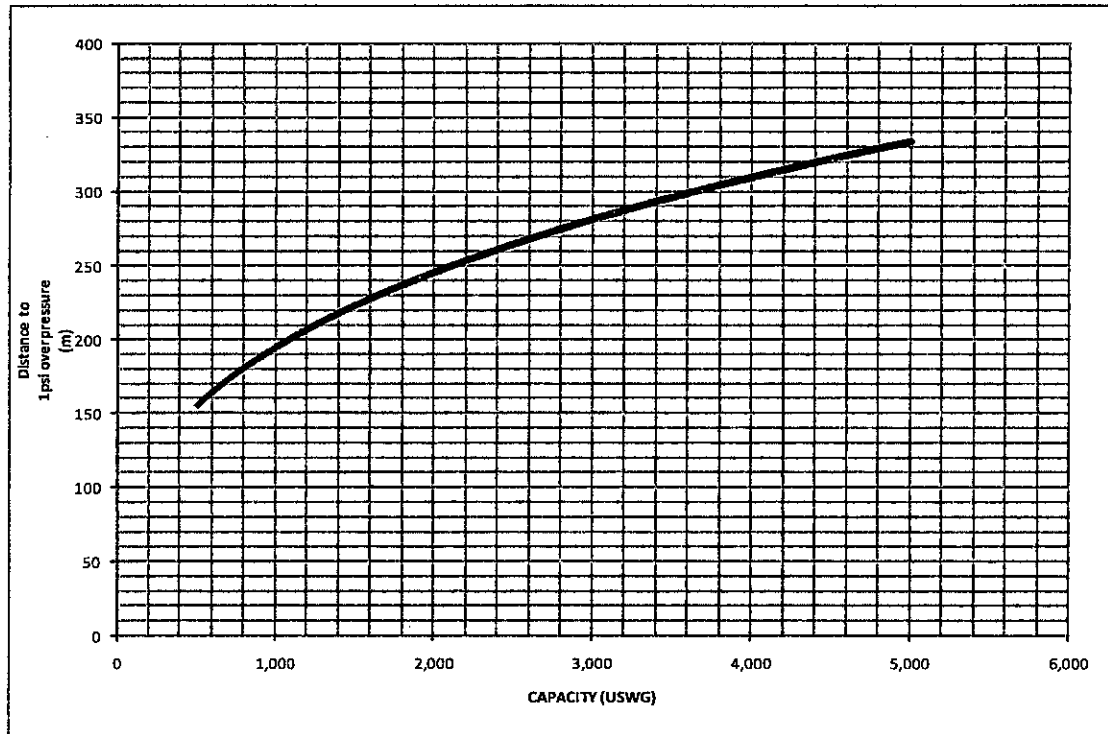
Table 1: Distance Table

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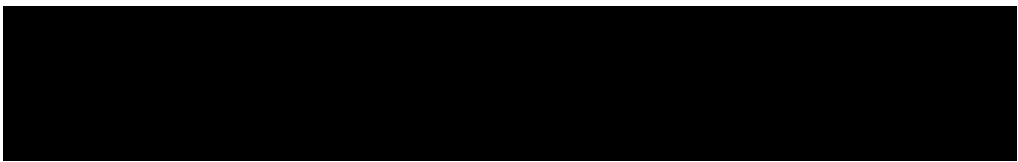
**Level 1 Risk and Safety Management Plan (RSMP)**  
**Technical Standards and Safety Act**  
**Propane Storage and Handling Regulation**

**SECTION C: SUBMISSIONS (cont'd)**

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


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

**Table 2: Buildings and Features**

Buildings and Features Present within the Circle on the Map of the Surrounding Area AND Name and Address of Closest Building or Feature	* Number of Buildings and Features (mark with an "X")				Distance from Tank to Closest Building or Feature
	0	1	2-10	11+	
Industrial buildings or parks or golf courses Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m
				X	68 m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>G&amp;C Auto Repair Inc.</u> Address: <u>2371 Dundas Street</u> City: <u>London</u> Province <u>Ontario</u> Postal Code <u>N5V 1R4</u>				X	112 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) Kettanan Santan	Official Title Manager
Signature 	Telephone No. 647-865-6834
	Date (dd-mmm-yyyy) 10-05-2018



Technical Standards and Safety Authority  
 345 Carlingview Drive  
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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	139.2 USWG
# 10	2.9		
# 5	1.5		
<b>Total Cylinder Capacity</b>			139.2 USWG

**Tanks Stored On-site Not Connected for Use**

Tank Size In USWG	Quantity	Total Volume in USWG
<b>Total Tank Capacity</b>		

<b>Total Cylinder Capacity</b>	139.2 USWG
<b>Total Tank Capacity</b>	0 USWG
<b>Total Portable Capacity</b> (Total Cylinder Capacity + Total Tank Capacity)	139.2 USWG

**NOTES:**

1. AREAS SHOWN REPRESENT PORTIONS OF BUILDINGS BOUNDED BY THE 0-75 FEET AND 75-300 FEET RADI AS INDICATED.
2. REQUIREMENTS ARE USED FOR TESA PROpane BRANCH STANDING #8.
3. AREA REQUIREMENTS FOR BRANCH STANDING #8 IS 2.62:2.616, WHICH IS LESS THAN THE 1:1.0000000000000000 RESTRICTION, FACILITY IS IN COMPLIANCE WITH BRANCH STANDING #8.
4. ALL AREAS IN COMPLIANCE WITH THE B148.2-15 & B148.2-16 CODES REQUIREMENTS, INCLUDING APPLICABLE CODE REQUIREMENTS, LOCATED AS SHOWN. ALL EQUIPMENT IS TO MEET TESA BRANCH STANDING #8.
5. ANY UPPER STOREYS OF BUILDINGS THAT FALL WITHIN THE 75 FEET AND 300 FEET RADIUS ARE TO BE CLASSIFIED AS BRANCH STANDING #8 LIMITS.
6. INFORMATION TAKEN FROM SITE CONDUCTIONS.
7. INFORMATION TAKEN FROM SITE CONDUCTIONS.
8. ALL MECHANICAL AND ELECTRICAL EQUIPMENT TO BE APPROVED FOR PROpane USE FROM MANUFACTURER'S APPROVED LISTINGS (i.e. HAZARDOUS).
9. ELECTRICAL EQUIPMENT IN THE VICINITY OF THE PROpane TANK MUST BE APPROVED BY THE TESA BRANCH STANDING #8 GROUP IN HAZARDOUS LOCATIONS AS REQUIRED BY THE TESA BRANCH STANDING #8.
10. FACILITY USED FOR METAL CYLINDER REWORKING AND AUTO REWORKING ONLY.
11. OCCUPANCY CLASSIFICATION IS TO BE DETERMINED BY THE OCCUPANCY AS DEFINED BY THE ONTARIO BUILDING CODE 2001. THE TESA BRANCH STANDING #8 GROUP HAS BEEN ADVISED THAT THE OCCUPANCY CLASSIFICATION IS TO BE DETERMINED BY THE TESA BRANCH STANDING #8 GROUP.
12. SIZES COMPUTED WITH CLASSIFICATION OF 2.000. THE ACCESS STORAGE AND HANDLING CODE B148.2-15, SHALL BE PROMINENTLY DISPLAYED.
13. ALL TANK DIMENSIONS ARE TYPICAL, ACTUAL TANK DIMENSIONS MAY VARY.
14. ALL TANK DIMENSIONS MUST BE PROVIDED FOR PROpane DEPENDING ON THE TANK SIZE AND TYPE.
15. TANK MUST BE MORE THAN 3 m (10 ft) FROM UNDERGROUND PETROLEUM TANKS.
16. PORTABLE FIRE EXTINGUISHER NOT LESS THAN 20-ALC RATING TO BE MOUNTED AT SITE AS PER SUB CODE 7.16.1.6.
17. PORTABLE FIRE EXTINGUISHERS ARE NOT ALLOWED TO BE MOUNTED AT THE SITE AS PER SUB CODE 7.16.1.7 OF B148.2-15. THIS MUST BE REINSTALLED ON THE TANK.
18. 2.000 LITRE PROpane TANKS TO BE PROVIDED FOR PROpane DEPENDING ON THE TANK SIZE AND TYPE.
19. ALL PROpane TANKS TO BE PROVIDED FOR PROpane DEPENDING ON THE TANK SIZE AND TYPE.
20. ALL PROpane TANKS TO BE PROVIDED FOR PROpane DEPENDING ON THE TANK SIZE AND TYPE.
21. PRESSURE RELIEF VALVES ARE TO BE PROVIDED FOR PROpane DEPENDING ON THE TANK SIZE AND TYPE.
22. UNDERGROUND TANKS ARE TO BE PROVIDED FOR PROpane DEPENDING ON THE TANK SIZE AND TYPE.

AREA	DESCRIPTION	AREA MEASURED
AREA A	INDUSTRIAL AREA WITHIN 75	18,171.0
AREA B	INDUSTRIAL AREA WITHIN 75	0.0
AREA C	INDUSTRIAL AREA WITHIN 75	0.0
AREA D	INDUSTRIAL AREA BETWEEN 75 AND 300	13,283.3
AREA E	INDUSTRIAL AREA BETWEEN 75 AND 300	0.0
AREA F	INDUSTRIAL AREA BETWEEN 75 AND 300	0.0
AUTOTANK AREA 1 (0.1 - AREA 7)		3,652.7
AUTOTANK AREA 2 (0.1 - AREA 7)		2,652.7

0. 2018.1.18 ISSUED FOR TESA APPROVAL

**PIONEER**

REVISIONS

No.	Date	Description	By

**ALTENG Inc.**  
 Alternative Energy Consulting

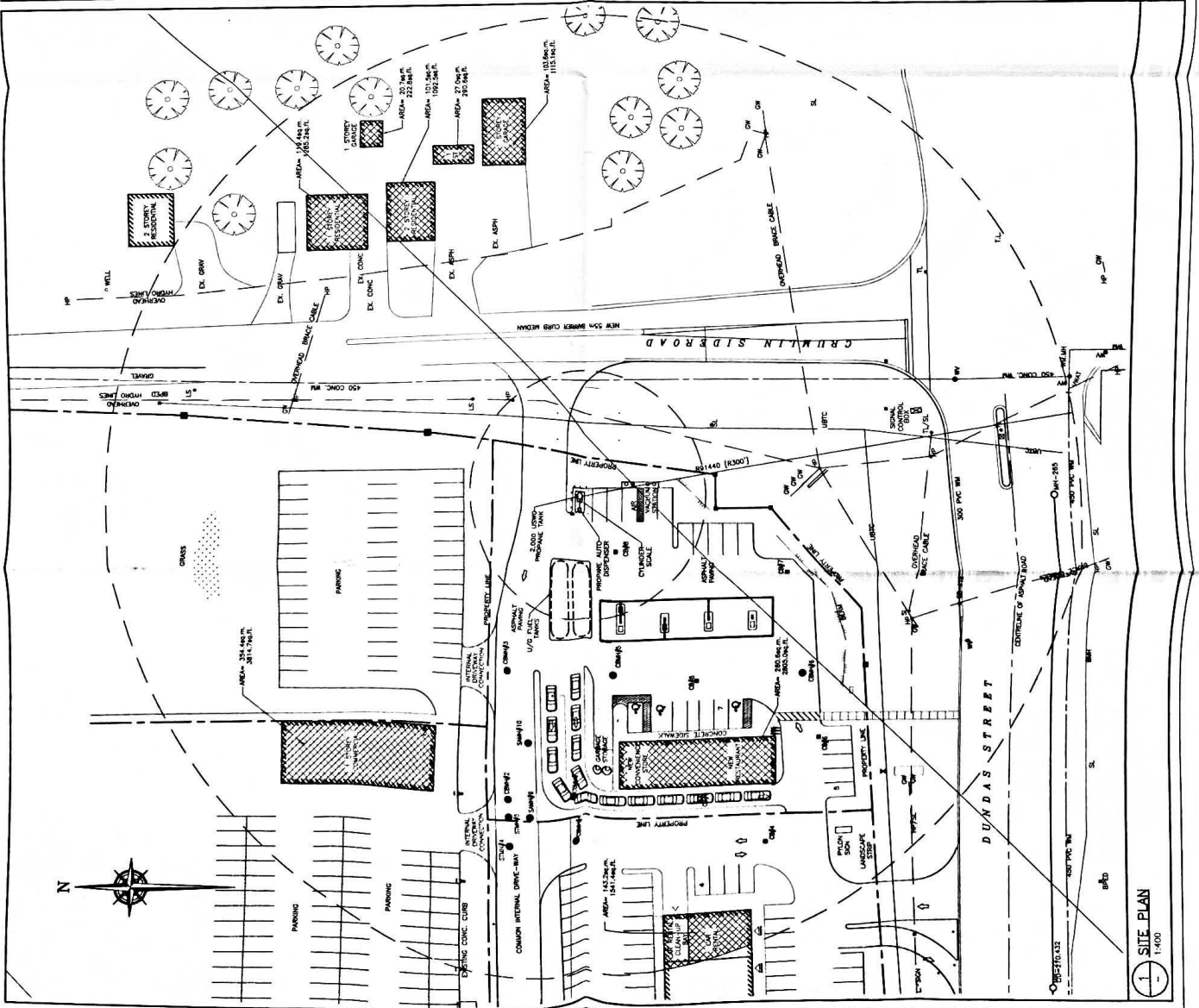
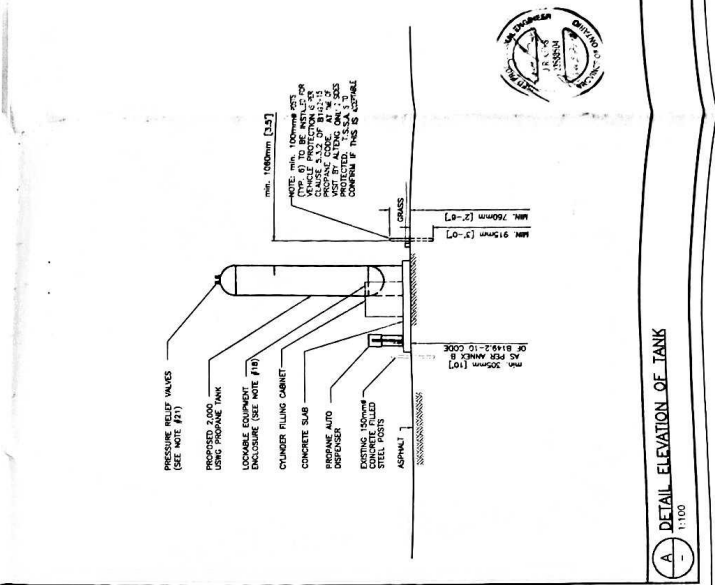
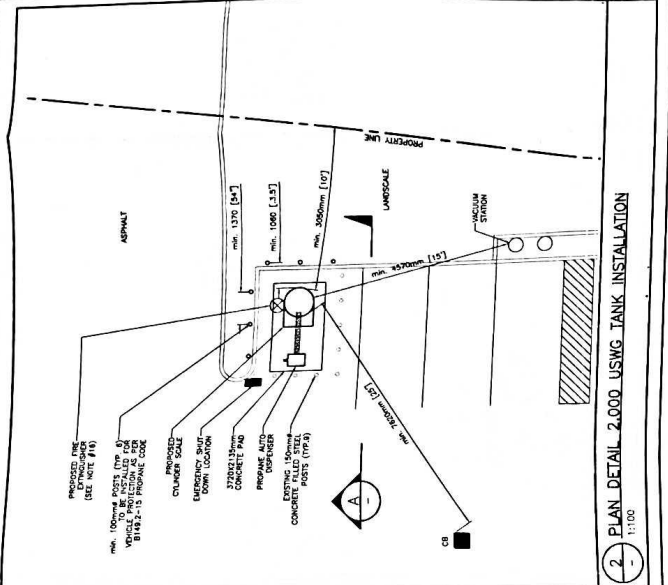
126 Main Crescent, Thornhill, Ontario L3T 6J3  
 Telephone: (905) 784-1544 Fax: (905) 784-5986

Drawn By: D.F.  
 Checked By: J.R.K.  
 Date: 2018.11.29

2018000 Ontario Inc. (6/6 Pressure Gas Bar)  
 2300 Dundas Street  
 London, ON, N6Y 1R8

Proposed Title: 2,000 USING VERTICAL PROpane TANK w/ CYLINDER SCALE & AUTO DISPENSER

Drawn: File Number: P-100 180900

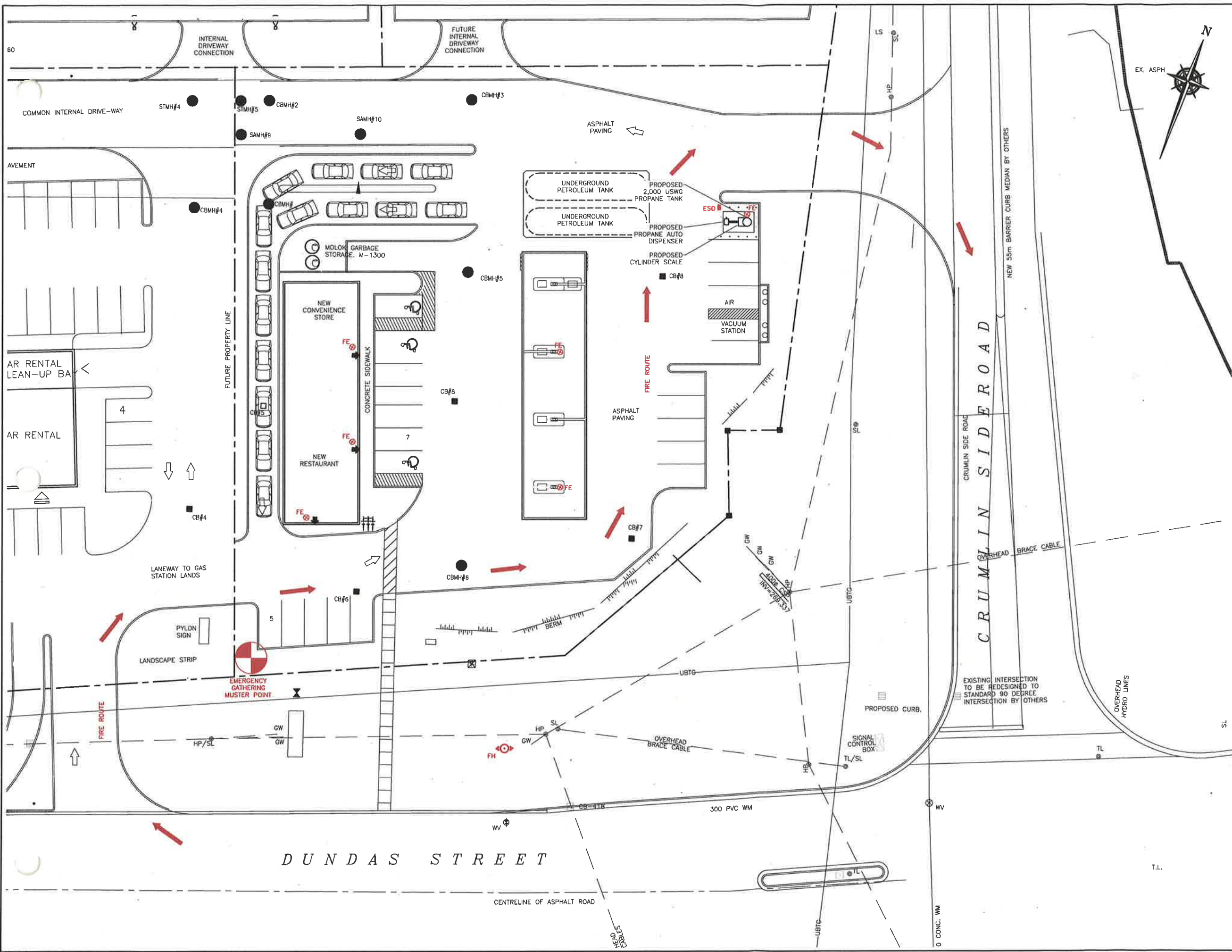


**1. SITE PLAN**  
1:600

**A. DETAIL ELEVATION OF TANK**  
1:100

**2. PLAN DETAIL 2,000 USWG TANK INSTALLATION**  
1:100





KEY PLAN  
SCALE: N.T.S.

**SITE DATA:**

ZONING INFORMATION: HIGHWAY SERVICE COMMERCIAL HS1, HS4  
RESTRICTED SERVICE COMMERCIAL  
RSC2, RSC3, RSC4, RSC5

LOT AREA: 4,609.0sq.m.

BUILDING AREA: 260.6sq.m.

LOT COVERAGE OF BUILDING: 5.9%

**PROPERTY LINE SETBACKS FOR PROPANE TANK**

NORTH	18.0m
SOUTH	49.3m
EAST	6.6m
WEST	60.2m

**GPS COORDINATES**

LATITUDE	LONGITUDE
43° 0'45.69"N	81° 8'54.54"W

**LEGEND:**

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

0	2016.08.07	ISSUED FOR RSMP APPROVAL	JRK
No.	Date	Description	By

**REVISIONS**



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

Project: 2615850 Ontario Inc. (o/a Pioneer Gas Bar) 2350 Dundas Street London, ON. N5V 1R5	Drawn By: D.F. Checked By: J.R.K. Date: MAR. 14 '17
Drawing Title: FIRE PROTECTION PLAN FOR RETAIL 2000 USWG VERTICAL PROPANE TANK o/w CYLINDER SCALE & AUTO DISPENSER	Drawing Scale: 1:200
Drawing Number: P-101	File Number: 17140D
ACAD INFORMATION	
Drawing File: 17140D-P-101	
Drawing Size: D	
Plotting Scale: 1=1	