



Technical Standards and Safety Authority
www.tssa.org

14th Floor - Centre Tower
3300 Bloor Street West
Toronto Ontario M8X 2X4
Fax: 416.231.4078
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 N/A

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 <u>2201390 Ontario Inc.</u> | Corporation No. <u>2201390</u> |
| | Operator Name (if different from above) <u>o/a Petro-Canada Rexdale Service Station</u> | |
| | Telephone No. <u>416 743 8377</u> | Fax No. <u>416 847 0050</u> |
| | E-mail <u>do35055@suncor.com</u> | |

| | | |
|----------|--|---|
| B | Street No. <u>110</u> | Street Name / 911 Number / Address, if applicable <u>Rexdale Boulevard</u> |
| | Town / City or Township / County <u>Toronto</u> | Province <u>Ontario</u> |
| | | Postal Code <u>M9W 1P5</u> |

Mailing address if different from above.

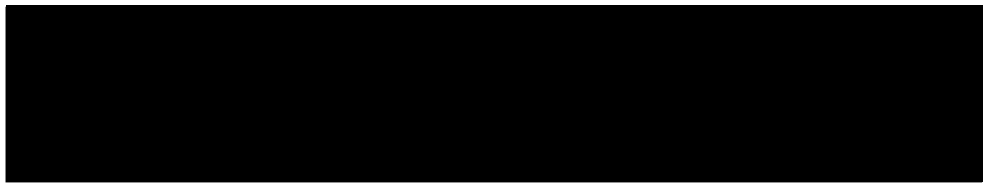
| | | |
|----------|--|---|
| C | Street No. <u>110</u> | Street Name / 911 Number / Address, if applicable <u>Rexdale Boulevard</u> |
| | Town / City or Township / County <u>Toronto</u> | Province <u>Ontario</u> |
| | | Postal Code <u>M9W 1P5</u> |

Information on Container Refill Centre or Filling Plant

| | | |
|----------|--|---|
| D | Location of facility. | Nearest Major Intersection |
| | Street No. <u>110</u> | Street Name / 911 Number / Address, if applicable <u>Rexdale Boulevard</u> |
| | | <u>Rexdale Boulevard & Kipling Avenue</u> |
| | Town / City or Township / County <u>Toronto</u> | Province <u>Ontario</u> |
| | | Postal Code <u>M9W 1P5</u> |

| | |
|--|---------------------------|
| Name of Licence Holder <u>Sivendran Pathmanathan</u> | |
| Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT). <u>Sivendran Pathmanathan</u> | ROT type <u>100-01</u> |
| Municipality (or municipalities if the facility or its hazard distance touches multiple borders) <u>Toronto</u> | |

Hours of operation.



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

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

| Print name | Signature | Date (dd-mmm-yyyy) |
|--|-----------|--------------------|
| Name of Licence Holder <u>Sivendran Pathmanathan</u> | | <u>12-03-2016</u> |
| Name of Senior Management person as defined in the Regulation holding the Record of Training <u>Sivendran Pathmanathan</u> | | <u>12-03-2016</u> |



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SECTION A: GENERAL INFORMATION (cont'd)

Indicate the year the facility was established. 2000 Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment.
New Site so no modifications to speak of.


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

| | PSIG | Serial Number |
|--------|------------|---------------|
| Tank1: | <u>250</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: 2000 USWG Portable: 139.2 USWG Mobile: 0 USWG

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| | | |
|--|--------------------------------------|---|
| Name of person completing this form (please print) <u>Sivendran Pathmanathan</u> | | Official Title <u>Manager</u> |
| Signature  | Telephone No. <u>416-743-8377</u> | Date (dd-mmm-yyyy) <u>14-03-2016</u> |



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SECTION A: GENERAL INFORMATION (cont'd)

Activity Information

| | | | |
|--|---|------------------------------|------------------------|
| Name of Propane Supplier(s) Superior Propane | | For Office Use - Party No. | |
| Street No. 7022 | Street Name / 911 Number / Address, if applicable Wellington Road 124S | | |
| Town / City or Township / Country Guelph | | Province Ontario | Postal Code N1H 6L3 |
| Telephone No. 416.706.0741 | Fax No. 416.946.1647 | Contact Name Reg Adamason | |
| E-mail adamsonr@SuperiorPropane.com | | | |

| | | | |
|--|--|----------------------------|------------------------|
| Name of Propane Transporter. If same as above, please check box. <input type="checkbox"/> | | For Office Use - Party No. | |
| Trimac Transporation | | | |
| Street No. 1700-800 | Street Name / 911 Number / Address, if applicable 5th Avenue SW | | |
| Town / City or Township / Country Calgary | | Province Alberta | Postal Code T2P 5A3 |
| Telephone No. 403.298.5100 | Fax No. 403.298.5146 | Contact Name Dale Eaid | |
| E-mail N/A | | | |

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

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

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| | | | |
|--|-------------------------------|----------------------------------|--|
| Name of person completing this form (please print) Sivendran Pathmanathan | | Official Title Manager | |
| Signature | Telephone No. 416 743 8377 | Date (dd-mmm-yyyy) 12-03-2016 | |



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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.

Facility is an operating Gas Station & Car Wash with some chemical storage for soap and other cleaners. There are no major hazardous materials on site

that are associated with this operation. The site has 1 cylinder cage holding up to 24x20lb cylinders.

Facility also has underground gasoline tanks 1x18,000 litre for Regular, 2x18,000 litre for Diesel.

.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. They are located at the gasoline islands, Convenience Store and at the propane tank.

There is a remote Emergency Shut down(ESD) located on the wall of the kiosk. 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 that are monitored 24/7.

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 the wall of the kiosk.


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

There is an alarm systems on site. The site is monitored by security cameras 24/7.

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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| | | |
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| Signature  | Telephone No. 416 743 8377 | Date (dd-mmm-yyyy) 12-03-2016 |



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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 Sivendran Pathmanathan | For Office Use - Party No. | Name Sivendran Pathmanathan | For Office Use - Party No. |
| Official Title Manager | | Official Title Manager | |
| Telephone No. 416 743 8377 | Fax No. 416 847 0050 | Cell No. 416.402.0078 | Fax No. 416 847 0050 |
| E-mail do35055@suncor.com | | E-mail do35055@suncor.com | |
| Role and responsibilities in emergency Will ensure 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 Selvadurai (Raj) Thanarajah | For Office Use - Party No. | Name Sivendran Pathmanathan | For Office Use - Party No. |
| Official Title Assistant Manager | | Official Title Manager | |
| Telephone No. 416 726 8569 | Fax No. 416 847 0050 | Telephone No. 416 743 8377 | Fax No. 416 847 0050 |
| E-mail Selvadurai (Raj) Thanarajah [thanarajah@sympatico.ca] | | E-mail do35055@suncor.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 Jim Jessop | For Office Use - Party No. | Name Reg Adamson | For Office Use - Party No. |
| Official Title Deputy Fire Chief | E-mail jjesop2@toronto.ca | Official Title Account Manager GTA | E-mail adamson@superiorpropane.com |
| Telephone No. 416.338.9052 | Fax No. 416-338-9271 | Telephone No. 416.706.0741 | Fax No. 416.946.1647 |
| Role and responsibilities in emergency Coordinates all fire services for Toronto(East Command) and assigns the required resources during emergencies. | | Role and responsibilities in emergency Coordinates truck deliveries and would initiate the CPA Emergency Response Plan as required. | |
| Fire Services Address Toronto Fire Services Headquarters, 4330 Dufferin St., Toronto, ON. M3H 5R9 | | Propane Supplier Address Superior Propane, 7022 Wellington Rd., Guelph, ON. N1H 6L3 | |
| 4. Local Fire Services - Alternate Contact | | 8. Municipal Contact | |
| Name Jim Stoops | For Office Use - Party No. | Name Tom Keefe | For Office Use - Party No. |
| Official Title Division Chief | E-mail jstoops@toronto.ca | Official Title Manager of Planning | |
| Telephone No. 416-338-9102 | Fax No. 416-338-9527 | Telephone No. 416-394-8211 | Fax No. 416-394-6063 |
| Role and responsibilities in emergency Assist chief with coordination of Fire Services resources. | | E-mail tkeefe@toronto.ca | |
| Fire Services Address Toronto Fire Serv Headquarters, 4330 Dufferin St., Toronto, ON. M3H 5R9 | | Municipality Name and Address City of Toronto, Civic Centre 399 The West Mall, Toronto, ON. M9C 2Y2 | |

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| | |
|--|----------------------------------|
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| Signature | Telephone No. 416 743 8377 |
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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 Rexdale Blvd. with a large area to manoeuvre trucks around. There are security cameras located on the property, monitored 24/7.

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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) 15-04-2016 | Print Name of Training Provider: Superior Propane |
| | Print Name of Instructor: Rega Adamson |
| 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) 15-04-2016 | Print Name of Training Provider: Superior Propane |
| | Print Name of Instructor: Reg Adamson |
| 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) 29-12-2015 | Print Name of Training Provider: Superior Propane |
| | Print Name of Instructor: Reg Adamson |
| 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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| | |
|--|----------------------------------|
| Name of person completing this form (please print) Sivendran Pathmanathan | Official Title Manager |
| Signature | Telephone No. 416 743 8377 |
| | Date (dd-mmm-yyyy) 12-03-2016 |



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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) TBD | Print Name of Training Provider: Petro-Canada Rexdale |
| | Print Name of Instructor: Sivendran Pathmanathan |
| 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) TBD | Print Name of Training Provider: Petro-Canada Rexdale |
| | Print Name of Instructor: Sivendran Pathmanathan |
| 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) 20-12-2018 | Print Name of Training Provider: Superior Propane |
| | Print Name of Instructor: Reg Adamson |
| 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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| | |
|--|--|
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| Signature | Telephone No. 416 743 8377 |
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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 make a 911 call and request fire and police response. C-Store attendant will inform customers that an incident has occurred and ask people to leave. Car Wash will be stopped and individuals asked to vacate area.

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 C-Store. A call will be made from the C-Store or by cell by the attendant.

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 Rexdale Blvd. The tank is located at the front of the property. There are hydrants located along Rexdale Blvd. There are no barriers to the site or tank.

Describe how the licence holder will ensure continual flow of updated information to authorities.
The attendant will always be on site during normal operating 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. Site is 24/7 operation so an operator will always be present.

How long will it take the facility liaison person to respond to the site.
15 Minutes for the owner if not already on site.

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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>32 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
B. 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:

No comments at this time. Inspection to be conducted when tank installation has been completed

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 <i>Ryan Morrison</i> Local Fire Services Name Ryan Morrison, FPT, Assistant Fire Marshall | Signature <i>R Morrison</i> | Date (dd-mmm-yyyy) 31 Mar 16 <i>31 Mar 16</i> |
|--|--------------------------------|---|

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| Signature <i>Sivendran Pathmanathan</i> | Telephone No 416 743 8377 | Date (dd-mmm-yyyy) 12-03-2016 |



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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) 11-03-2016 | Capacity of single largest propane storage vessel (USWG) 2000 USWG |
| Tank setback coordinates. Indicate placement on the map. | |
| Front: 12.9 m | Right side property line: 4.9 m |
| Rear: 57.1 m | Left side property line: 48.7 m |
| GPS coordinates of single largest vessel: Lat 43°42'44.67"N Long 79°33'54.14" | |

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) Sivendran Pathmanathan | Official Title Manager |
| Signature | Telephone No. 416 743 8377 |
| | Date (dd-mmm-yyyy) 12-03-2016 |



Technical Standards and Safety Authority
www.tssa.org

14th Floor - Centre Tower
3300 Bloor Street West
Toronto Ontario M8X 2X4
Fax: 416.231.4078
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

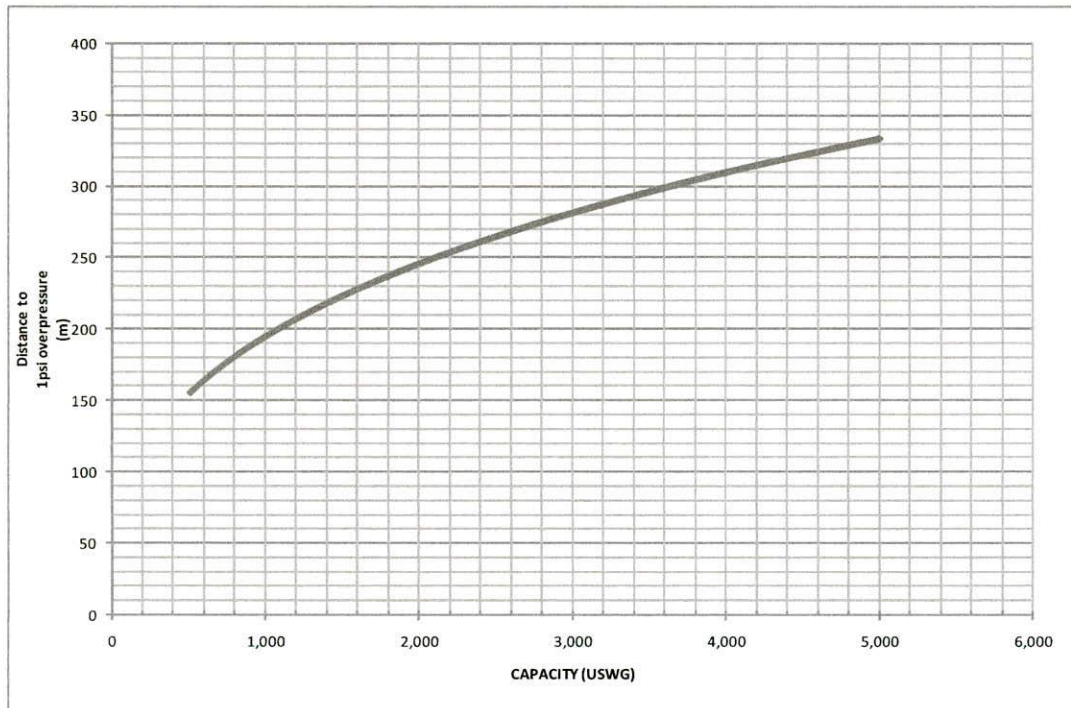
Table 1: Distance Table

| 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: _____ Address: _____ City: _____ Province _____ Postal Code _____ | X | | | | _____ m |
| Residential building units specifically permanent single family dwellings, condominiums, and apartments. Name: _____ Address: _____ City: _____ | | | | X | 52.5 m |
| Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>Speedy Muffler</u> Address: <u>104 Rexdale Blvd.</u> City: <u>Toronto</u> Province <u>Ontario</u> Postal Code <u>M9W 1P5</u> | | | | X | 5.5 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>Sivendran Pathmanathan</u> | Official Title <u>Manager</u> |
| Signature | Telephone No. <u>416 743 8377</u> |
| | Date (dd-mmm-yyyy) <u>12-03-2016</u> |



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WORKSHEET

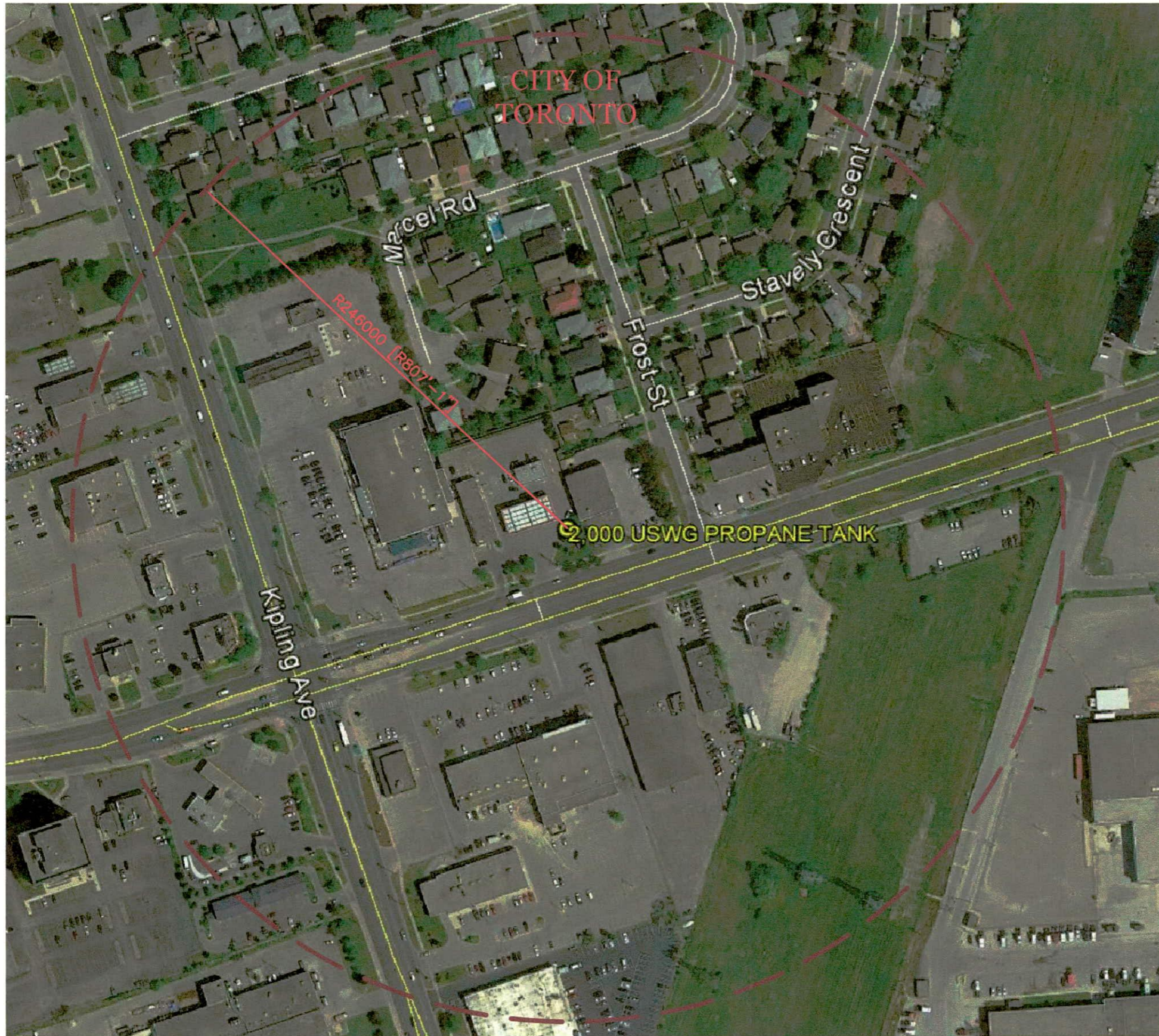
Portable Storage Additional Information Worksheet

| 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 | 139.2 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

$$D = 17 \times \left(0.1 \times W_p \times \frac{HC_r}{HC_{CNT}} \right)^{1/3} = 246m$$

| PROPERTY LINE SETBACKS FOR PROPANE TANK | |
|---|-------|
| NORTH | 57.1m |
| SOUTH | 12.9m |
| EAST | 4.9m |
| WEST | 48.7m |

| GPS COORDINATES | |
|-----------------|---------------|
| LATITUDE | LONGITUDE |
| 43°42'44.67"N | 79°33'54.14"W |

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

PLANNING ADVISORY INFORMATION:

CITY OF TORONTO
2 CIVIC CENTRE COURT
TORONTO, ON.
M5C 5A3

ATTN: MR. TOM KEEFE
PH#: 416.394.8211
FAX#: 416.394.6063
EMAIL: tkeefe@toronto.ca

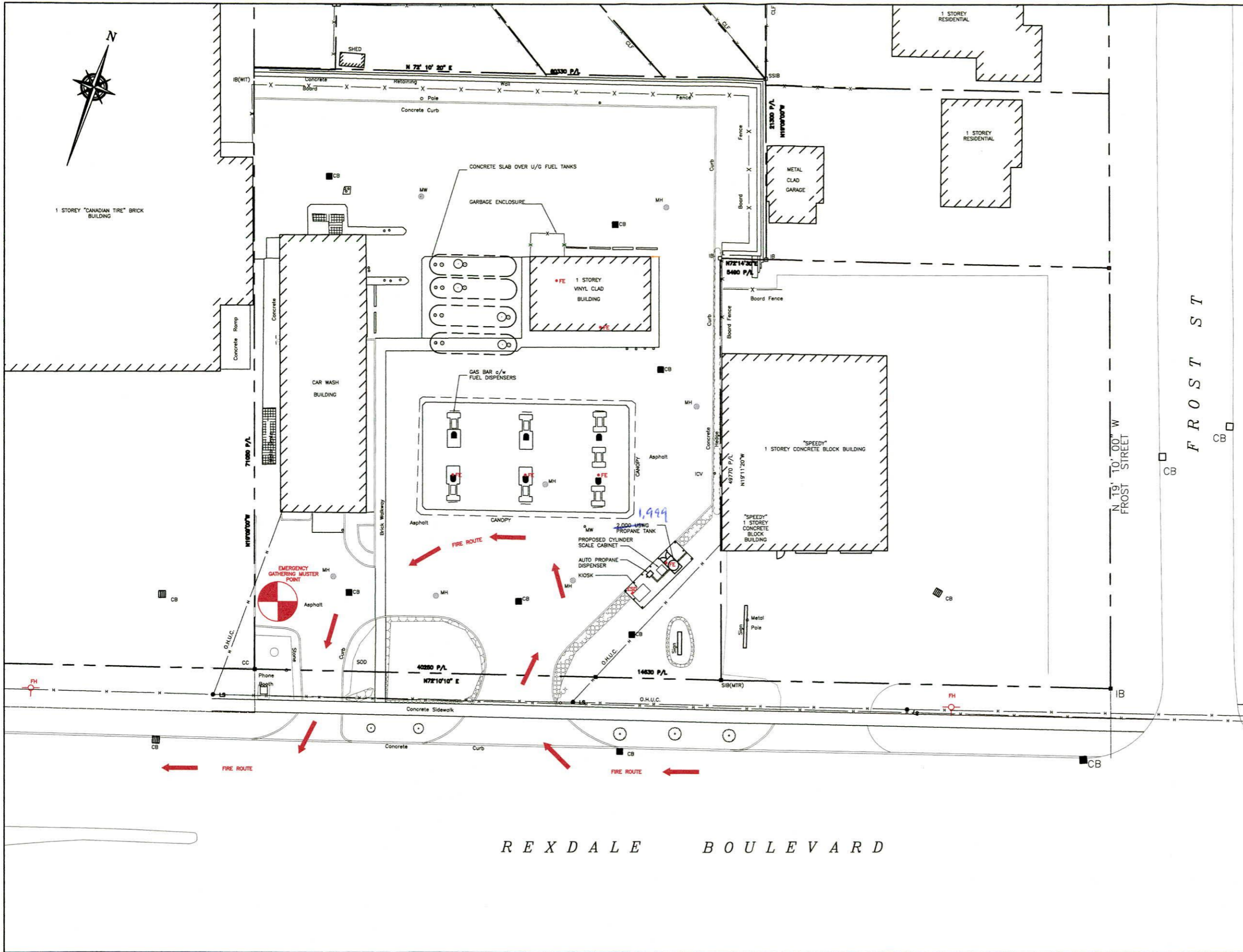
| 0 | FEB. 02, '18 | ISSUED FOR RSPM | JRK |
|-----|--------------|-----------------|-----|
| No. | Date | Description | By |

REVISIONS



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

| | |
|---|--|
| Project: PETRO-CANADA SERVICE STATION 110 Rexdale Blvd. Etobicoke, ON M9W-1P5 | Drawn By: D.F. Checked By: J.R.K. Date: FEB. 21, '18 |
| Drawing Title: BLAST RADIUS LAYOUT FOR 2,000 USWG PROPANE TANK c/w CYLINDER SCALE & AUTO REFUELING | Drawing Scale: 1:1000 |
| Drawing Number: P-200 | File Number: 131200 |
| ACAD INFORMATION | |
| Drawing File: 131200-P-200 | |
| Drawing Size: D | |
| Plotting Scale: 1=1 | |



KEY PLAN
SCALE: N.T.S.

SITE DATA:

ZONING INFORMATION: COMMERCIAL RESIDENTIAL (CR)
 LOT AREA: 4005.3sq.m.
 BUILDING AREA: 459.0sq.m.
 LOT COVERAGE OF BUILDING: 6.7%

PROPERTY LINE SETBACKS FOR PROPANE TANK

| | |
|-------|-------|
| NORTH | 57.1m |
| SOUTH | 12.9m |
| EAST | 4.9m |
| WEST | 48.7m |

GPS COORDINATES

| LATITUDE | LONGITUDE |
|---------------|---------------|
| 43°42'44.67"N | 79°33'54.14"W |

LEGEND:

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

| 0 | JUL 31, '13 | ISSUED CLIENT REVIEW | JRK |
|-----|-------------|----------------------|-----|
| No. | Date | Description | By |

REVISIONS



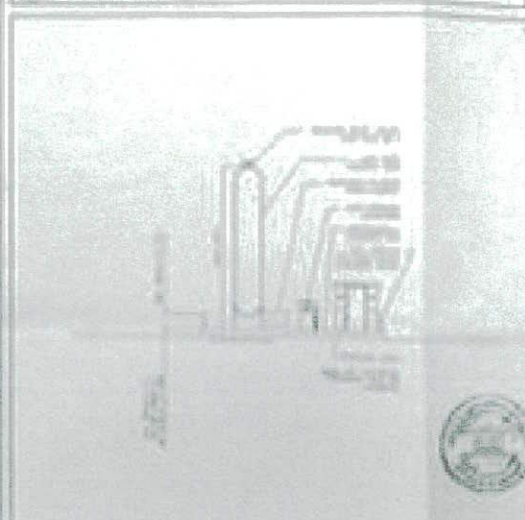
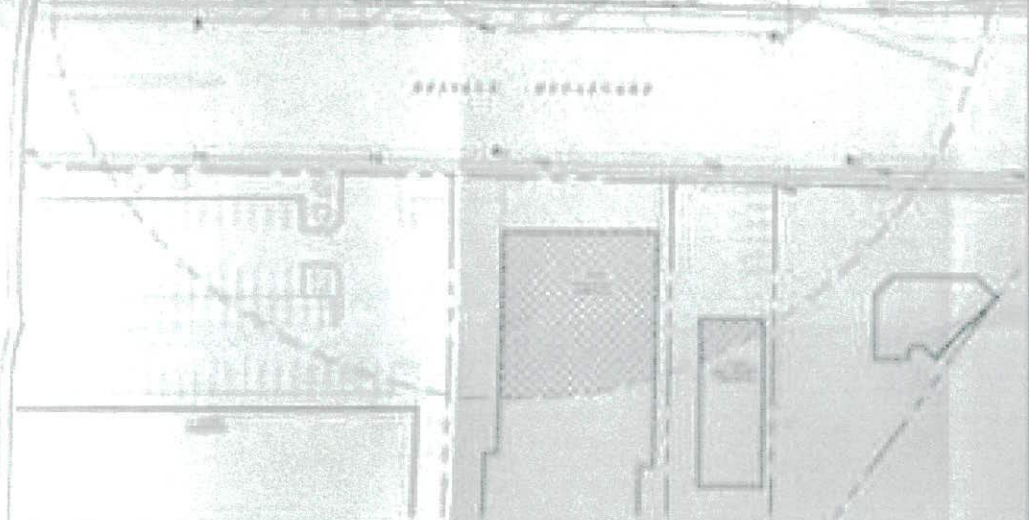
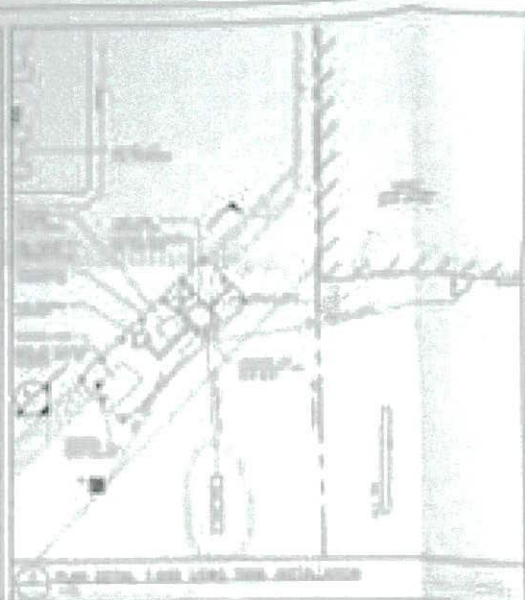
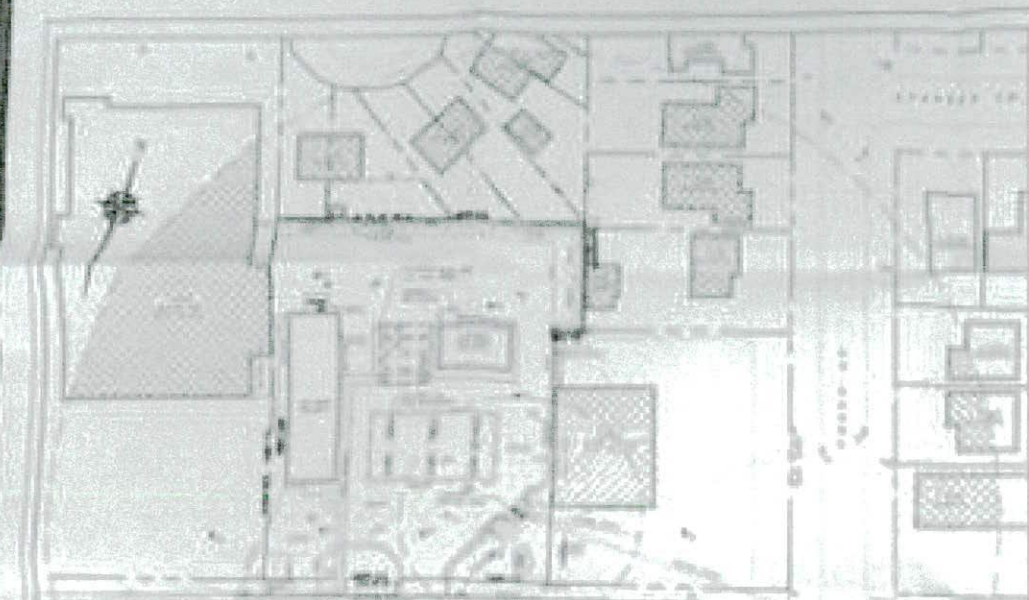
ALTENG Inc.
 Alternative Energy Consulting
 126 Holm Crescent, Thornhill, Ontario L3T 5J3
 Telephone: (905)764-1644 Fax: (905)764-5986

| | |
|---|--|
| Project: PETRO-CANADA SERVICE STATION 110 Rexdale Blvd. Etobicoke, ON M9W-1P5 | Drawn By: D.F. Checked By: J.R.K. Date: FEB. 21, '18 |
| Drawing Title: EMERGENCY FIRE PLAN FOR 2,000 USWG PROPANE TANK c/w CYLINDER SCALE & AUTO REFUELING | Drawing Scale: 1:200 |
| Drawing Number: P-102 | File Number: 13120D |
| ACAD INFORMATION Drawing File: 131200-P-102 Drawing Size: D Plotting Scale: 1=1 | |

REXDALE BOULEVARD

FROST ST

N 19' 10" 00" W
FROST STREET



- NOTES**
- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.
 - 2. ALL MATERIALS SHALL BE OF THE BEST QUALITY AND SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.
 - 3. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
 - 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
 - 5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.
 - 6. ALL MATERIALS SHALL BE OF THE BEST QUALITY AND SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.
 - 7. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
 - 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
 - 9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.
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 - 11. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
 - 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |
| | | |
| | | |
| | | |
| | | |

ALTEKO Inc.
 Mechanical Design Consulting
 1000 Lakeshore Blvd. West, Suite 1000
 Toronto, Ontario M6H 1L5
 Tel: (416) 763-1111
 Fax: (416) 763-1112
 Email: info@altekoinc.com

PROJECT: [REDACTED]
DATE: [REDACTED]
SCALE: [REDACTED]
PROJECT NO.: [REDACTED]
DATE PLOTTED: [REDACTED]



015 1000

015 1000