

Site Servicing & Stormwater Management Report IBPS Temple – 6688 Franktown Road, Ottawa, ON.

Client: GRC Architects

Project Number: OTT-22027645-A0

Application Stage: Site Plan Control

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Date Submitted: December 18, 2024 Revised: June 6, 2025

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Client: GRC Architects 47 Clerance Street, Suite 401 Ottawa, ON K1N 9K1

Submitted for: Site Plan Control Application

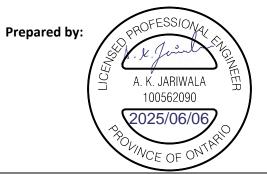
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Date Submitted:

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1 Introduction

EXP Services Inc. (EXP) was retained by GRC Architects on behalf of International Buddhist Progress Society (IBPS) to provide Site Servicing and Stormwater Management report for Fo Guang Shan Temple of Ottawa located in Ottawa, ON.

The property located at 6688 Franktown Road is approx. 39.87 hectares. and located just outside the village of Richmond in the City of Ottawa. The property is surrounded by farm lands along the north-east and south-west property lines, a residential development on the south-east corner and Franktown road along the frontage of the property. Refer to **Figure A1** in **Appendix A** for the site location.

The proposed Fo Guang Shan Temple is intended to be developed in two phases. Under phase one, a small temple building with approx. 360m² footprint was constructed in 2020 along with a septic system, private water well, 10,000 Gallon underground water tank for fire fighting and a gravel access road. The current site plan control application is for the phase two development where a new temple building with approx..1400 m² footprint along with stormwater management infrastructure, extension of the ex. septic system, new water well, asphalt parking lots and asphalt driveways are intended to be added. The subject development will be concentrated in approx. 3.2 hectares of the property near Franktown road, while the remainder of the property will remain as forested/vegetated lands.

This servicing and stormwater management design report will address the Servicing requirements for the proposed phase two development including the domestic and fire water, sanitary and storm servicing. The report will also cover the storm water management requirements and proposed methods to meet those requirements.

2 Existing Conditions

There is an existing temple building constructed under phase one along with a septic system, water well, underground water tank for fire fighting, an existing electrical transformer, asphalt parking lot, concrete patio and a gravel access road. The remainder of the site is forested or vegetated.

The topography of the site is fairly flat, with some depressed areas within the property. The topography is assumed to be gradually sloping to the northeast towards Franktown Road.

There is a municipal 200mm dia. sanitary force main within the Franktown Road ROW. No other known municipal infrastructure is present within the City ROW near the subject property. The stormwater runoff from the subject property is currently carried by the existing roadside ditch along Franktown Road.

3 References

Various documents were referred to in preparing the current report including:

- Sewer Design Guidelines, Second Edition, Document SDG002, October 2012, City of Ottawa (Guidelines) including:
 - Technical Bulletin ISDTB-2012-4 (20 June 2012)
 - Technical Bulletin ISDTB-2014-01 (05 February 2014)
 - Technical Bulletin PIEDTB-2016-01 (September 6, 2016)



- Technical Bulletin ISDTB-2018-01 (21 March 2018)
- Technical Bulletin ISDTB-2018-04 (27 June 2018)
- Technical Bulletin ISDTB-2019-02 (08 July 2019)
- Ottawa Design Guidelines Water Distribution, July 2010 (WDG001), including:
 - Technical Bulletin ISDTB-2014-02 (May 27, 2014)
 - Technical Bulletin ISTB-2018-02 (21 March 2018)
 - Technical Bulletin ISTB-2021-03 (18 August, 2021)
- Ontario Ministry of Transportation (MTO) Drainage Manual, 1995-1997
- Stormwater Management Planning and Design Manual, Ontario Ministry of the Environment and Climate Change, March 2003 (SMPDM).
- Design Guidelines for Drinking-Water Systems, Ontario Ministry of the Environment and Climate Change, 2008 (GDWS).
- Fire Underwriters Survey, Water Supply for Public Fire Protection (FUS), 2020
- Ontario Building Code 2012, Ministry of Municipal Affairs and Housing
- Servicing and Stormwater Management Report prepared by McIntosh Perry dated, July 30, 2018
- Geotechnical Report prepared by McIntosh Perry dated July 2018.
- Hydrogeological Study prepared by McIntosh Perry dated July 2018.

4 Pre-Consultation / Permits / Approvals

A pre-consultation meeting was held with the City prior to design commencement for phase 1. The notes from this meeting outlined the submission requirements and provided information to assist with the development proposal. Please refer to the meeting notes included in **Appendix E**.

Since the stormwater flows from the proposed development will discharge to the road side ditch which ultimately outlets into Jock River to the east, a direct submission to MECP for an Environmental Compliance Approval (ECA) application will be required. Additionally, an ECA application for the on-site private septic system will be required. The preparations for these ECA application are currently underway and will be submitted to MECP directly once completed.

5 Watermain Design

5.1 Existing Water Servicing

The existing temple building is serviced by a 64mm dia. watermain from a private water well. The well yield was noted as 92 L/min (1.53 L/sec) during a 6-hour pump test.

Additionally, there is an existing 10,000 Gallons underground water tank for fire fighting purposes.

5.2 Required Fire Flow

Since the new building will have a greater area and volume, the required fire flow demands were calculated for the new building only.



The required fire flow for the proposed building was estimated based on OBC Div B A-3.2.5.7. The following equation was used.

 $Q = K \times V \times S_{tot}$

where:

- Q = Minimum supply of water in liters
- K = water supply coefficient from Table 1 OBC Div B A-3.2.5.7.
- V = total building volume in cubic meters
- Stot = total of spatial coefficient values from property line exposures on all sides as obtained from the formula:

Stot = 1.0 + [Sside1 + Sside2 + Sside3 +...etc.].

Spatial coefficients are a function of exposure distance and can be found in Figure 1 OBC Div B A-3.2.5.7.

The required minimum water supply flow rate is a function of Q and is given in Table 2 OBC Div B A-3.2.5.7. Table 5.1 below summarizes the parameters used for estimating the Required Fire Flows (RFF) based on the Ontario Building Code (OBC) and the latest City of Ottawa Technical Bulletins.

Table 5.1: Summary of Design Parameters Used in Calculating Required Fire Flows (RFF) Using OBC

Item	Design Value
Floors Above Grade	1 floor
Sprinklered	No
North Exposure Distance, Spatial Coefficient	>10.0m, 0.0
East Exposure Distance, Spatial Coefficient	>10.0m, 0.0
South Exposure Distance, Spatial Coefficient	>10.0m, 0.0
West Exposure Distance, Spatial Coefficient	>10.0, 0.0
Stot	1.0
V(m ³)	1397 m ² x 3.0m = 4191.0m ³
К	Based on Non-Combustible Construction and Occupancy Group A, Division 2 C, K=16
Q	67,056.00 L
Required Minimum Water Supply Flow Rate (L/min)	2700 L/min (45 L/sec) (if Q<= 108,000 L)

The estimated required fire flows (RFF) based on the OBC method is 67,056.00 L at a supply rate of 45.0 L/sec for the proposed temple building.

5.3 **Proposed Domestic Water Demands**

Domestic water demands were calculated for the residential occupancy and institutional occupancy. For the residential occupancy, six (6) – one bedroom units were considered. For the institutional occupancy, gross hectare area of the proposed development limit (3.25 ha) was considered.

Domestic demands for institutional development of 28,000 L/ha/day and residential demands of 280 L/person/day were used based on City of Ottawa WDG001. Additionally, even though the proposed



development will be serviced by a private well, for the conservative demands calculation, peaking factors of 9.5 and 14.3 were used for the residential demands and 1.5 and 2.7 were used for the institutional demands for max. day and peak hour demands, respectively. With the above noted considerations, tje total average day demand, max day demand and peak hour demands were calculated as 1.07 L/sec, 1.77 L/sec and 3.12 L/sec, respectively. Refer to **Table B1** in **Appendix B** for detailed information.

5.4 Proposed Water Servicing Design

The existing building is serviced by an existing private water well. Based on the Hydrogeological assessment study and site servicing and storm water management report prepared by McIntosh Perry during the phase 1 site plan application, the existing water well can sufficiently service the existing building and new building. The pump rate for the existing well during 6-hour pumping test was noted as 92 L/min.

Based on the revised Hydrogeological Assessment study dated, June 6, 2025; prepared by EGIS stated that the existing well should be sufficient to service the new water demands based on the previous pump test and the observed drawdown. Therefore, A new 100mm dia. water service is proposed for the new building to feed from the existing well. Friction loss of 2.6 psi is anticipated over a length of 142 m with ground elevation difference of 1.02m (102.0m new bldg. FFE – 100.18m ex. well ground elevation).

Additionally, mechanical engineer will have to provide booster pumps to ensure that the serviceability within the building remains between the range of 40psi and 80psi for water service.

For fire fighting purposes, 67,056L of water at 2,700 L/min rate is required. A 10,000 Gallon capacity water tank was installed during phase 1 construction. EXP had reached out to the City fire department staff to review the site specific fire fighting infrastructure requirements. Based on their input, the existing 10,000 Gallon fire water storage tank is sufficient to provide required fire flow for the new and existing building. Additionally, the staff had advised EXP to install a new dry hydrant to feed from the existing fire water tank, which is shown on the site servicing plan C100. Refer to the correspondence with the City fire department staff included in **Appendix B**.

6 Sanitary Sewer Design

6.1 Peak Design Flow

Peak sanitary design flows were estimated for the existing building and proposed building using the events list and expected attendees received from the client. Residential demands were also calculated for the six (6) – one bedroom units in the new temple building. Please refer to the table included in **Appendix D** for peak daily sewage flows and max. storage calculations.

Based on this events list, an average number of attendees was calculated as 97 persons. There were two events on the list which had 1000 attendees and one event with 5000 attendees. which were excluded from the demand calculations. The existing septic system was designed to treat 10,000 L/day for sewage flows (Refer to septic application included in **Appendix E**), which equates to approx. 277 persons, considering 36 L/person/day of sanitary demands. Therefore, to maintain the efficiency of the septic system and health of the bacterial community within the existing biofilter by providing regular and sufficient sewage flows to the existing septic system; a new holding tank is proposed to be added. Which will hold the additional sewage greater than 10,000 L/day temporarily from the proposed development. With addition of the new sewage holding tank, the existing septic system will be able to accommodate six (6) proposed residential units and up to 1,000 attendees as per the sequencing provided by the owners in the events list by the client. The detailed calculation of sewage flows, sequencing of the events, attendance during each event and sewage holding tank volume can be found in **Appendix D**.



The owners will arrange temporary mobile toilets during infrequent large gatherings with attendance in exceedance of 1,000 people.

Design Flows

Design flows are calculated using the sewage demands for residential and institutional occupancies as per OBC 2012 tables 8.2.1.3 (A) and 8.2.1.3 (B), respectively.

Sewage design flows for Assembly:	36 L/person/day
Max. Attendance:	1000 people
Residential Bedrooms:	6
Sewage Flows from Residential Occupancy	/: 3,000 L/day
Peak Design Flow: = (36L/person/day)(1	,000 persons)(1/86400) + (3,000 L/day)(1/86400)
= <u>0.44 L/s or 39,000</u>	<u>L/day</u>

As per the previous site servicing and stormwater management report prepared by McIntosh Perry, the septic system and septic bed installed during phase 1 construction were designed for sewage flows of 9,999 L/day.

As noted above, the existing system can accommodate sewage flows from up to 277 occupants. Majority of the events on the events list provided by the client have attendance less than 97. Only three events during the year will have 1000-5000 attendees. To maintain the efficiency of the biofilter by ensuring regular and consistent sewage load, a new 50,000 L holding tank is proposed to be added. With this holding tank, sewage flows from max. 1000 attendees will be accommodated. The existing septic system treatment units and septic bed sizes will remain as-is.

Previously designed septic system prepared by McIntosh Perry is included in **Appendix E** and on drawing C100 as well as C101 for information.

The existing temple building is serviced by a 100mm dia. gravity sanitary sewer discharging into the anerobic digester. The proposed building will be serviced by a 200m dia. sanitary sewer at 0.6% having a full flow capacity of 25.8 L/sec and will discharge into a new sewage holding tank. The holding tank will be equipped with two sewage grinder pumps sized to pump at the maximum rate of 10,000 L/day. The holding tankb will also be equipped with two agitators to avoid solids from settling at the tank bottom. The electric panel for the holding tank will be mounted in the building and will have alarms set at 70% and 100% capacities based on the tank level floats. The holding tank will be connected to the existing anerobic digester. The existing building sanitary service will be re-routed to the proposed sewage holding tank as well. Size and location of the new holding tank are shown on drawing C101 – Septic System Plan. The existing septic system includes an anaerobic digester followed by waterloo biofilter tanks followed by a pump tank. The sewage from the holding tank will flow through the septic system in above mentioned order in a loop and then finally be pumped to the existing raised bed Type A septic bed at the previously design rate of 10,000 L/day.

Since the daily design sewage flow under phase 2 development will exceed 10,000 L/day, an ECA application will be required for the proposed septic system and will be submitted for a direct review to MECP.

7 Stormwater Management

7.1 Storm Design Criteria

The storm sewer system was designed in conformance with the City of Ottawa Sewer Design Guidelines (October 2012) and MECP SMPDM (March 2003). The stormwater management design criteria for the proposed development are as follows:



- Post-development peak run-off for each storm events up to and including 100-year storm event to match pre-development run-off.
- Maximum allowable ponding depth is 300 mm for surface ponding and 150mm for roof ponding.
- Minimum freeboard of 300mm between the 100-year overland spill elevation and finished floor elevation. Minimum freeboard of 150mm between the 100-year overland spill elevation and lowest grades against the building foundation.
- Quality control criteria of 80% TSS removal (Enhanced level treatment) as noted by RVCA in the pre-consultation meeting notes.

7.2 **Pre-Development Conditions**

The subject site was a forested/vegetated parcel before the phase 1 development. During the phase 1 development, a new temple building was added along with asphalt parking lot and concrete patio. To determine the post-development allowable release rates from the subject site, pre-development landcovers before phase 1 development were used to calculate pre-development runoff coefficient. Refer to topographic survey plan prepared by McIntosh Perry dated, February 21, 2018 included in **Appendix F**.

7.3 Allowable Release Rate

To calculate allowable release rates, pre-development average run-off coefficient was calculated for the 3.25 ha of development area. An average time of concentration was also calculated. With the pre-development average runoff coefficient of 0.25 and time of concentration of 34.88 mins; pre-development runoff rates during 2-year, 5-year and 100-year storm events were estimated using rational method.

Therefore, the allowable release rates from the subject development (phase 1 and phase 2) were calculated as 82.76 L/sec, 111.36 L/sec and 236.92 L/sec during 2-year, 5-year and 100-year storm events, respectively. Refer to **Table C1 – Table C3** in **Appendix C** for detailed calculations.

7.4 Post-Development Stormwater Management Design

In post-development conditions the existing temple building constructed under phase 1 development along with the proposed temple building, asphalt areas and landscaping within the 3.25 ha development area were considered. Using the area-weighted average method, post-development average run-off coefficients were calculated. The proposed stormwater management and drainage strategy includes sheet drainage, low slope-flat bottom vegetated swales and ditches, culverts and an extended detention dry pond equipped with a sediment forebay. Based on the proposed storm drainage strategy, the development area was divided into two post-development catchment areas A1 and A2.

Drainage area A1 consists of 1.76 ha of the site on western portion of the development with a calculated average runoff coefficient of 0.52. Area A2 consists of 1.49 ha of the site on eastern portion of the development and includes the existing temple building and surrounding areas developed during phase 1 construction. Average runoff coefficient for catchment A2 was calculated as 0.57. The total post-development average runoff coefficient for the proposed 3.25ha development was calculated as 0.55. Increase in the post-development runoff coefficient is due to increase in the impervious areas such as asphalt driveways and parking lots, building roof, concrete etc.

With a time of concentration of 10mins and calculated runoff coefficients, post-development runoff rates were estimated using rational method. Post development uncontrolled runoff during 2-year, 5-year and 100-year storm events were estimated at 380.03 L/sec, 515.55 L/sec and 1104.39 L/sec, respectively. Required



storage volumes during each storm events were estimated using the Modified Rational Method. Which were estimated at 211.1 m³, 289.7 m³ and 618.4 m³ during 2-year, 5-year and 100-year storm events, respectively. These estimates were based on the allowable release rates specified in **Section 7.3** above.

A detailed stormwater management pond sizing and pond outlet structure design was carried out as per MECP SMPDM. In the Geotech investigation report prepared by McIntosh Perry dated July 2018, groundwater elevation at the site was noted to be between 1.0m-1.5m below ground surface. Due to site constraints such as high groundwater table and flat topography, a dry pond was chosen as the proposed SWM facility for achieving the quantity and quality control criteria for the proposed development.

With a drainage area of 3.25 ha and 52% imperviousness, water quality volume requirement was calculated at 110.8 m³/ha. This equates to a total water quality volume of 360 m³. This volume calculation was based on a normal protection level (70% TSS removal). Additionally, extended detention volume of 130 m³ was calculated based on 40 m³/ha. For a dry pond, extended detention volume is included in the water quality volume. With the estimated quality and quantity control volumes, the proposed dry pond was designed to have a maximum depth of 1.0m with 4:1 side slopes. Additionally, a sediment forebay was designed to provide initial treatment to the stormwater runoff from the subject development. The total designed stormwater storage volume is 1,037 m³ out of which 134 m³ will be provided in the sediment forebay and 903 m³ will be provided in the dry pond. Refer to Civil drawings for further details.

With the target drawdown time/detention time of minimum 24hours, the stormwater management pond outlet structure was designed. The outlet structure will be a pre-cast or a cast-in-place concrete weir wall with a 75mm square orifice for quality control and a rectangular 0.5m wide weir for quantity control. With 75mm square orifice, the calculated drawdown time during water quality flow rate was estimated at 27 hours. The quantity control weir will restrict the peak flow rates during WQF, 2-year, 5-year and 100-year storm events to 15.03 L/sec, 82.76 L/sec, 108.19 L/sec and 230 L/sec, utilizing storage volume of 376 m³, 458 m³, 504 m³ and 707 m³, respectively. During 100year + 20% storm events (check for climate change), expected peak flowrate will be 284.30 L/sec and utilized storage will be 811 m³. The proposed stormwater management pond will outlet into the road side ditch along Franktown Road and eventually flow to Jock River towards the east.

In addition to extended detention dry-pond, low slope flat bottom vegetated ditches were also designed as per MECP design guidelines to further improve the quality of stormwater and promote infiltration and TSS removal by maintaining flow velocities less than 0.5 m/sec. The proposed ditches will have bottom width of 0.8m and depth of 0.5m with min. 3:1 side slopes. The average longitudinal slopes were kept less than 1.0% with majority of the ditch sections at 0.5%. Based on various literature review on TSS removal efficiency of a vegetated swale, a conservative 50% TSS removal was assumed for the proposed design. Therefore, the effective TSS removal from the proposed vegetated ditches and extended detentions dry pond will be 85%. Additionally, to prevent re-suspension of the settled sediments in the dry-pond, appropriate vegetation will be planted within the dry-pond as per the landscape plan.

Refer to **Table C4** to **C14** in **Appendix C** for detailed stormwater management design calculations. **Table C15** and **C16** provides detailed ditch capacity and flow velocity calculations.

With the above presented stormwater management design and supporting calculations, stormwater management quantity and quality criteria set for the subject site (phase 1 and 2 development) can be met successfully.



8 Erosion and Sediment Control

During all construction activities, erosion and sedimentation shall be controlled by the following techniques:

- Extent of exposed soils shall be limited at any given time;
- Exposed areas shall be re-vegetated as soon as possible;
- Minimize the area to be cleared and disruption of adjacent areas;
- Visual inspection shall be completed daily on sediment control barriers and any damage will be repaired immediately. Care will be taken to prevent damage during construction operations;
- In some cases, barriers may be removed temporarily to accommodate the construction operations. The affected barriers will be reinstated at night when construction is completed;
- Sediment control devices will be cleaned of accumulated silt as required. The deposits will be disposed of as per the requirements of the contract;
- During construction, if the engineer believes that additional prevention methods are required to control erosion and sedimentation, the contractor will install additional silt fences or other methods as required to the satisfaction of the engineer; and,
- Construction and maintenance requirements for erosion and sediment controls are to comply with Ontario Provincial Standard Specification (OPSS) 805.

9 Conclusions

This report addresses the site servicing and stormwater management requirements for the site plan control application for the proposed development. Based on the analysis provided in this report, the conclusions are as follows:

- Proposed phase 2 development will be serviced by the existing water well for domestic demands. The existing 10m000 Gallon fire water storage tank has sufficient capacity to service both building for fire demands as confirmed by the City fire department staff.
- The proposed building will be serviced by a 200mm diameter sanitary sewer, which will discharge into a new sewage holding tank. The existing building 100mm dia. sanitary service will re-routed and connected to the new holding tank as well. The holding tank will discharge to the existing aerobic digester that was installed during phase 1 construction. It is understood that the existing septic system has a treatment capacity of 9,999 L/day. Pump rate from the new holding to the ex. Septic system will be controlled to 10,000 L/day. Therefore, the daily sewage volume treated by the ex. Septic system will remain the same. No additional changes are proposed to the existing septic treatment units and septic bed.
- Stormwater Management criteria for the proposed development will be achieved by restricting the postdevelopment stormwater discharge rates up to and including the 100-year to the allowable release rates.
- Additionally, quality control criteria of 80% TSS removal will be achieved by low slope and flat bottom
 vegetated ditches as well as the proposed extended detention dry pond. The anticipated TSS removal
 efficiency of the proposed stormwater management system will be 85%.
- Temporary erosion and sediment control measures for the subject site have been identified.



Appendix A – Figures





Appendix B – Water Servicing



TABLE B1 Water Demand Chart

	No. of Units							Residential Demands						Co	ommercial/	/Institutio	nal		Total D	Total Demands in (L/sec)					
	Singl	gles/Semis/Towns Apartments							Мах	Max	(Peak			Peaking Factors (x Avg Day)			Peak							
Junction Number (Building)	Single Familty	Semi	Duplex		Bach elor	1- Bed Apt	2-Bed Apt		4-Bed Apt	Avg Apt.		Avg Day Demand (L/day)	-		Max Day Demand (L/day)	Demand	Area (ha)	Avg Demand (L/day)	Max Day	Peak Hour	Max Day Demand (L/day)	Hour Demand (L/day)	Avg Day (L/s)	Max Day (L/s)	Peak Hour (L/s)
6688 Franktown Road					6						6.0	1,680	9.50	14.30	15,960	24,024	3.25	91,000	1.5	2.7	136500.0	245700.0	1.073	1.765	3.122
		1																							
Totals =					6						8.4	1,680			15,960	24,024	3.3				136,500	245,700	1.073	1.765	3.122
Unit Donaition				Decide								Deceder A			as they 500		Project:								
<u>Unit Densities</u> Singles	Persons/Unit 3.4	<u>L</u>		<u>Reside</u> Residen		sumptio	on (L/pers	/day) =		280		Based on N	1ECP-GDWS 1	adle 3-3. Le	ss than 500	persons	IBPS Temp	ام							
Semi-Detached	2.7						r (* avg da	ay) =		2.5	9.50														
Duplex Townhome	2.3			Peak Ho	our Facto	or (* avg	g day) =			5.5	14.30	J					Designed:			Location:					
Bachelor Apt Unit	2.7 1.4			Industr	rial/Co	mmerc	ial/Instit	utional	Water	Consur	nntion						Aaditya Jar	iwala M Fr	a P Ena	LOCATION.					
1-Bed Apt Unit	1.4						ha/day) =			35,000							Checked:		ig., i .∟iig	6688 Frar	nktown Road	I. Ottawa. (ON.		
2-Bed Apt Unit	2.1			-		-	s ha/day)			55,000							Alam Ansar	i, M.Sc., P.	Eng			., •, •			
3-Bed Apt Unit	3.1						ha/day) =			28,000							File Referer	, ,	0	Page No:					
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From:	Evans, Allan <allan.evans@ottawa.ca></allan.evans@ottawa.ca>
Sent:	Monday, April 28, 2025 1:02 PM
То:	Aaditya Jariwala
Cc:	Alex Leung; Caelan Mitchell; Alam Ansari; Morgan, Brian; Whittaker,
	Damien
Subject:	RE: IBPS Temple - 6688 Franktown Road.
Attachments:	Rural Water Technical Drawings.pdf

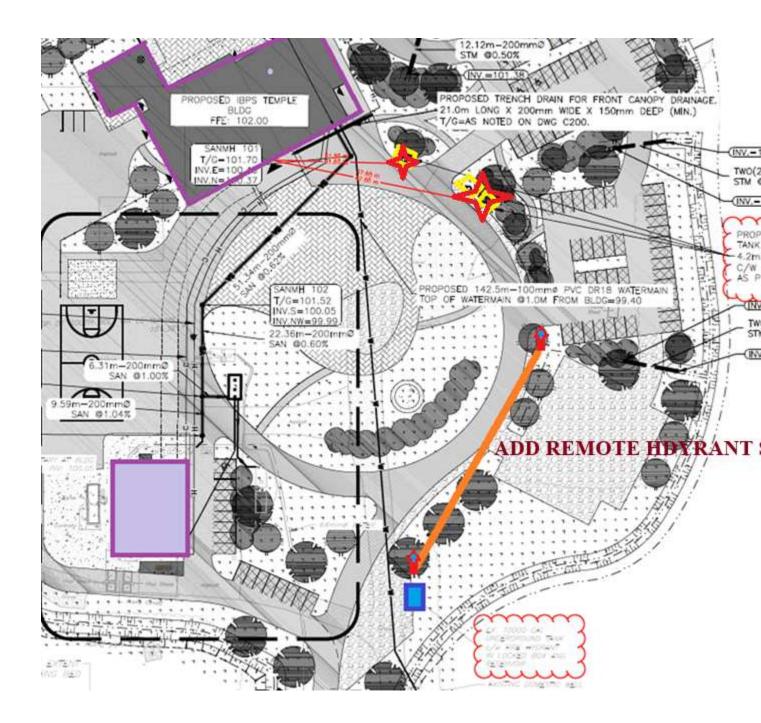


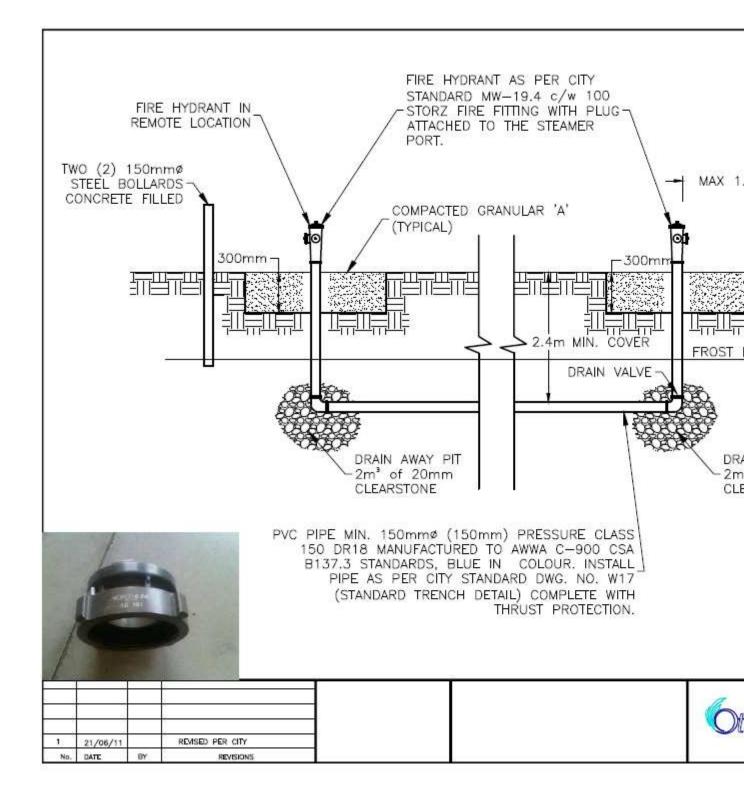
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Hi everyone- thanks for the chat today. Here are my summary points:

- Eliminate 3 additional water storage tanks proposed existing water storage is sufficient
- Add remote hydrant system roughly as shown below
 - Pipe diameter to be determined (min 6") based upon engineering calculations/fireflow
 - Due to high water table, fire hydrants will require sealed weep holes to prevent water infiltration and subsequent freezing in winter
 - This also means when tested after install and any time used on site that they will have to be pumped dry (there are agencies that do this)
 - Note that remote fire hydrants have a specific paint pattern and placement location (near the water tank, but not too close)
- Ensure fire route maintains all OBC requirements

Happy to discuss further as needed.





Allan Evans

Fire Protection Engineer / Ingénieur de Protection d'Incendies Prevention Division / Prévention des Incendies Ottawa Fire Services / Service des Incendies d'Ottawa 1445 Carling Avenue / 1445 Avenue Carling Ottawa, ON K1Z 7L9 Allan.Evans@Ottawa.ca 줄 (613) 913-2747 | 줄 (613) 580-2424 x24119 | 릅 (613) 580-2866 | I Mail Code: 25-102 | Book time with Evans, Allan

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OTTAWA FIRE SERVICES SERVICE DES INCENDIES D'OTTAWA

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From: Aaditya Jariwala <<u>Aaditya.Jariwala@exp.com</u>> Sent: April 25, 2025 1:51 PM To: Evans, Allan <<u>Allan.Evans@ottawa.ca</u>> Cc: Alex Leung <<u>aleung@provencherroy.ca</u>>; Caelan Mitchell <<u>cmitchell@provencherroy.ca</u>>; Alam Ansari <<u>alam.ansari@exp.com</u>>; Morgan, Brian <<u>Brian.Morgan@ottawa.ca</u>>; Whittaker, Damien <<u>Damien.Whittaker@ottawa.ca</u>> Subject: RE: IBPS Temple - 6688 Franktown Road.

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Ok thank you, will send an invite for Monday noon shortly.

Aaditya Jariwala, M.Eng, P.Eng.

EXP | Project Manager t:+1.613.688.1899, 63240 | m:+1.613.816.5961 | e:aaditya.jariwala@exp.com exp.com | legal disclaimer keep it green, read from the screen

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From: Evans, Allan <<u>Allan.Evans@ottawa.ca</u>> Sent: Friday, April 25, 2025 1:49 PM To: Aaditya Jariwala <<u>Aaditya.Jariwala@exp.com</u>>

Cc: Alex Leung <<u>aleung@provencherroy.ca</u>>; Caelan Mitchell <<u>cmitchell@provencherroy.ca</u>>; Alam Ansari <<u>alam.ansari@exp.com</u>>; Morgan, Brian <<u>Brian.Morgan@ottawa.ca</u>>; Whittaker, Damien <<u>Damien.Whittaker@ottawa.ca</u>>

Subject: RE: IBPS Temple - 6688 Franktown Road.



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Let's do Monday at noon – I need to discuss some items with the sector chief about this site and make sure he and I are on the same page.

Brian and/or Damien are welcome to attend.

А

Allan Evans

Fire Protection Engineer / Ingénieur de Protection d'Incendies Prevention Division / Prévention des Incendies Ottawa Fire Services / Service des Incendies d'Ottawa 1445 Carling Avenue / 1445 Avenue Carling Ottawa, ON K1Z 7L9 Allan.Evans@Ottawa.ca 管 (613) 913-2747 | 管 (613) 580-2424 x24119 | 昌 (613) 580-2866 | 国 Mail Code: 25-102 | Book time with Evans, Allan





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From: Aaditya Jariwala <<u>Aaditya.Jariwala@exp.com</u>> Sent: April 25, 2025 1:25 PM To: Evans, Allan <<u>Allan.Evans@ottawa.ca</u>> Cc: Alex Leung <<u>aleung@provencherroy.ca</u>>; Caelan Mitchell <<u>cmitchell@provencherroy.ca</u>>; Alam Ansari <<u>alam.ansari@exp.com</u>>; Morgan, Brian <<u>Brian.Morgan@ottawa.ca</u>> Subject: RE: IBPS Temple - 6688 Franktown Road.

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Hi Allan,

I can meet today between 3PM – 4PM or anytime on Monday. Let me know. If any of the discussions are related to architectural and building code then I would have to confirm their availability as well.

Let me know,

Aaditya Jariwala, M.Eng, P.Eng.

EXP | Project Manager t:+1.613.688.1899, 63240 | m:+1.613.816.5961 | e:aaditya.jariwala@exp.com exp.com | legal disclaimer keep it green, read from the screen

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From: Evans, Allan <<u>Allan.Evans@ottawa.ca</u>>
Sent: Friday, April 25, 2025 12:31 PM
To: Aaditya Jariwala <<u>Aaditya.Jariwala@exp.com</u>>
Cc: Alex Leung <<u>aleung@provencherroy.ca</u>>; Caelan Mitchell <<u>cmitchell@provencherroy.ca</u>>; Alam Ansari <<u>alam.ansari@exp.com</u>>; Morgan, Brian <<u>Brian.Morgan@ottawa.ca</u>>
Subject: RE: IBPS Temple - 6688 Franktown Road.



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This proposal does not work for us for location and how you are implying we would operate at this location. I think a Teams meeting to clarify some outstanding issues would be the best way to simply and move forward here. Please let me know what works for you next week – I'm available most days 9:00-2:30 but I do have other meetings schedule already.

Regards,

Allan Evans

Fire Protection Engineer / Ingénieur de Protection d'Incendies Prevention Division / Prévention des Incendies Ottawa Fire Services / Service des Incendies d'Ottawa 1445 Carling Avenue / 1445 Avenue Carling Ottawa, ON K1Z 7L9 Allan.Evans@Ottawa.ca 줄 (613) 913-2747 | 줄 (613) 580-2424 x24119 | 릅 (613) 580-2866 | I Mail Code: 25-102 | Book time with Evans, Allan

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From: Aaditya Jariwala <<u>Aaditya.Jariwala@exp.com</u>>
Sent: April 25, 2025 10:13 AM
To: Evans, Allan <<u>Allan.Evans@ottawa.ca</u>>
Cc: Alex Leung <<u>aleung@provencherroy.ca</u>>; Caelan Mitchell <<u>cmitchell@provencherroy.ca</u>>; Alam Ansari <<u>alam.ansari@exp.com</u>>; Morgan, Brian <<u>Brian.Morgan@ottawa.ca</u>>
Subject: RE: IBPS Temple - 6688 Franktown Road.
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Hi Allan,

See attached plan showing the location of new tanks as well as the existing tank. Answers to your comments are provided in Red below.

Aaditya Jariwala, M.Eng, P.Eng.

EXP | Project Manager t:+1.613.688.1899, 63240 | m:+1.613.816.5961 | e:aaditya.jariwala@exp.com exp.com | legal disclaimer keep it green, read from the screen

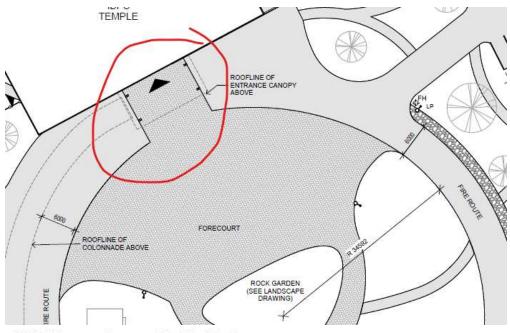
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From: Evans, Allan <<u>Allan.Evans@ottawa.ca</u>>
Sent: Wednesday, April 16, 2025 1:10 PM
To: Aaditya Jariwala <<u>Aaditya.Jariwala@exp.com</u>>
Cc: Alex Leung <<u>aleung@provencherroy.ca</u>>; Caelan Mitchell <<u>cmitchell@provencherroy.ca</u>>; Alam
Ansari <<u>alam.ansari@exp.com</u>>; Morgan, Brian <<u>Brian.Morgan@ottawa.ca</u>>
Subject: RE: IBPS Temple - 6688 Franktown Road.



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Hi Aaditya – OFS does not provide fire route letters, I provide fire route comments back to planning. As long as the fire route design meets OBC requirements, there typically is only limited comments around specific access requirements for OFS as appropriate – especially in rural settings. One thing I did bring up was the overhead canopy as shown below. There is a requirement that the overhead clearance (if the fire route continues underneath) of 5m. If it is not to be part of the fire route, we would request a height signage be installed on both sides of the canopy. Additionally please show that there is a code compliant turnaround within 90m of a deadend if the fire route does not go underneath.



3.2.5.6. Access Route Design

 A portion of a roadway or yard provided as a required access route for fire department use shall

- a) have a clear width not less than 6 m, unless it can be shown that lesser widths are satisfactory,
- b) have a centre-line radius not less than 12 m,
- c) have an overhead clearance not less than 5 m,
- d) have a change of gradient not more than 1 in 12.5 over a minimum distance of 15 m,
- e) be designed to support the expected loads imposed by firefighting equipment and be surfaced with concrete, asphalt or other material designed to permit accessibility under all climatic conditions,
- f) have turnaround facilities for any dead-end portion of the access route more than 90 m long, and
- g) be connected with a public thoroughfare.

(See Note A-3.2.5.6.(1).)

2) For buildings conforming to Article 3.2.2.51. or 3.2.2.60., no portion of the access route described in Sentence 3.2.2.10.(3) shall be more than 20 m below the uppermost floor level.

In your Servicing Report you mention 3 new tanks x 10000. I have a few questions around this.

- 1) Location are you proposing to add to existing tank, or is it at the location shown below circled in red? See attached plan showing location of new and existing tanks.
- 2) According to the OBC calculation you provided, the new building required 67060 L, yet you propose 113562L in additional storage on top of the existing storage why? Is there a sprinkler system? Some other reason? No, the new or existing buildings are not sprinklered. We had provided additional storage for redundancy purposes until we had a contact from the City regrading this matter. We will remove one of the three tanks. So it will be 2x 10,000 Gal new tanks and 1x10,000 Gal existing tank on site.

3) Can you please provide distance from the primary entrance of the new building to the proposed location of tanks and the existing tank (travel path, not straight line). Shown on the attached plan.

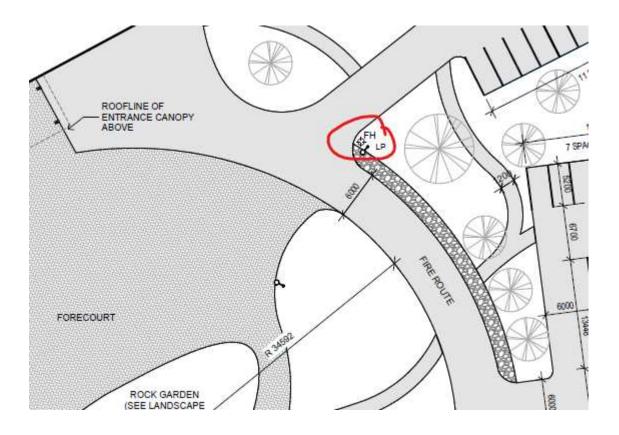


Table 5.1: Summary of Design Parameters Used in Calculating Required Fire Flows (RFF)	Using
OBC	9.76.894.77

Item	Design Value					
Floors Above Grade	1 floor					
Sprinklered	No					
North Exposure Distance, Spatial Coefficient	>10.0m, 0.0					
East Exposure Distance, Spatial Coefficient	>10.0m, 0.0					
South Exposure Distance, Spatial Coefficient	>10.0m, 0.0					
West Exposure Distance, Spatial Coefficient	>10.0, 0.0					
Stot	1.0					
V(m ³)	1397 m ² x 3.0m = 4191.0m ³					
к	Based on Non-Combustible Construction and Occupancy Group A, Division 2 C, K=16					
Q	67,056.00 L					
Required Minimum Water Supply Flow Rate (L/min)	2700 L/min (45 L/sec) (if Q<= 108,000 L)					

The estimated required fire flows (RFF) based on the OBC method is 45.0 L/sec for the proposed temple building.

Table J.2 - Applied Criteria

OBC Flow Rates (L/min)	Storage (Q)	Detail
2700, 3600 or 4500	Q - 57000	OBC method to be used for all fire flows < 9000 L/min
5400 or 6300	Q	OBC method to be used for all fire flows < 9000 L/min
9000	Special Evaluation	Applicant to provide calculations for OBC, FUS and National Fire Protection Association (NFPA) 1142 (possibility of two draft points required)
Sprinkler System	Special Evaluation	Applicant to provide calculations for OBC and NFPA 13.

OFS is capable of flowing approximately 4500 L/min from a single draft point. For OBC flow rates \leq 4500 L/min, a reduction in storage volume will be applied (1,900 L/min x 30 min = 57000 L) to Q to the minimum permissible storage volume of 38000 L.

Allan Evans

Fire Protection Engineer / Ingénieur de Protection d'Incendies Prevention Division / Prévention des Incendies Ottawa Fire Services / Service des Incendies d'Ottawa 1445 Carling Avenue / 1445 Avenue Carling Ottawa, ON K1Z 7L9 Allan.Evans@Ottawa.ca 管 (613) 913-2747 | 會 (613) 580-2424 x24119 | 昌 (613) 580-2866 | 国 Mail Code: 25-102 | Book time with Evans, Allan An internationally accredited agency 2019-2024



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From: Aaditya Jariwala <<u>Aaditya Jariwala@exp.com</u>> Sent: April 16, 2025 10:40 AM To: Evans, Allan <<u>Allan.Evans@ottawa.ca</u>> Cc: Alex Leung <<u>aleung@provencherroy.ca</u>>; Caelan Mitchell <<u>cmitchell@provencherroy.ca</u>>; Alam Ansari <<u>alam.ansari@exp.com</u>> Subject: IBPS Temple - 6688 Franktown Road. Importance: High

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Good morning Allan,

I am reaching out regrading the proposed development at 6688 Franktown Road in Ottawa. We had submitted to the City for SPA. In the first round of review comments, City advised us to reach out to you and get your approval letter on the fire route and on-site water storage volume for fire fighting purposes. The site is in rural area and has no access to municipal watermain. Therefore, the property will be serviced by on-site underground water storage tanks for fire demands. There is an existing temple building on-site and an existing 10,000 USGAL storage tank. As part of the proposed development, a new bigger temple building will be added along with 3 additional underground water storage tanks. The calculated volume of water for fire fighting purposes for the new building per OBC 2012 is 2700 L/min (67,056 L). With the 3 new 10,000 USGAL storage tanks each and 1 existing 10,000 USGAL tank, the total onsite storage volume for fire fighting purposes will be 151416.47 L.

See attached excerpt from our site servicing and stormwater management report. I have also attached the site plan showing the proposed fire route.

Can you please review and advise if you need any further information or clarification?

Looking forward to hearing back from you.

Best regards,



Aaditya Jariwala, M.Eng, P.Eng. EXP | Project Manager t : +1.613.688.1899, 63240 | m : +1.613.816.5961 | e : aaditya.jariwala@exp.com 2650 Queensview Drive Suite 100 Ottawa, ON K2B 8H6 CANADA

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Appendix C – Stormwater Management Design Sheet



TABLE C1 CALCULATION OF AVERAGE RUNOFF COEFFICIENTS FOR PRE-DEVELOPMENT CONDITIONS

	Roof	Areas	Aspha	t Areas	Gra	ivel	Grassed	d Areas		Total Area	
Area No.	C=	0.90	C=(0.90	C=().70	C=0	.20	Sum AC		C _{AVG}
	Area (m ²)	A * C	Area (m ²)	A * C	Area (m ²)	A * C	Area (m ²)	A * C		(m²)	
E1	0	0	0	0	3394	2376	29303.020	5860.604	8236.502	32697.160	0.25
Site									8236.502	32697.160	0.25

TABLE C2

CALCULATION OF CATCHMENT TIME OF CONCENTRATION FOR PRE-DEVELOPMENT CONDITIONS

Catchment No.	Area (ha)	High Elev (m)	Low Elev (m)	Flow Path Length (m)	Indiv Slong	Avg. C	Time of Conc. Tc (mins)	Description	
E1	3.2697	100.60	99.98	109.4	0.6	0.25	34.88	See Note 2	
Notes									
									Equation 8.16, where: T $_{c}$ = 3.26* (1.1-C)* L ^{0.5} / S $_{W}^{0.33}$.15, where: T $_{c}$ = 0.057*L / (S $_{W}^{0.2}$ *A ^{0.1})

TABLE C3

CALCULATION OF PEAK RUNOFF FOR PRE-DEVELOPMENT CONDTIONS

	Outlet		Time of		Storm = 2 yr	-	S	Storm = 5 yr		Storm = 100 yr		
Area No	Location	Area (ha)	Conc, Tc (min)	I ₂ (mm/hr)	Cavg	Q ₂ (L/sec)	I ₅ (mm/hr)	Cavg	Q ₅ (L/sec)	l ₁₀₀ (mm/hr)	Cavg	Q ₁₀₀ (L/sec)
E1	Franktown Road	3.2697	34.88	36.14	0.25	82.76	48.63	0.25	111.36	82.78	0.31	236.92
Total						82.76			111.36			236.92
<u>Notes</u>	0.040											
1) Intensity, I = 732.951/(Tc+6.199) ^{0.810} (2-year)											
2) Intensity, I = 998.071/(Tc+6.053) ^{0.814} (5-year)											
3) Intensity, I = 1735.688/(Tc+6.01	4) ^{0.820} (100-yea	r)										
4) Cavg for 100-year is increased b	y 25% to a max	imum of 1.0										
5) The standard minimium Time o	Concentraion (of 10 minutes w	as used rathe	or then the cal	nculted time si	nce calcualted t	ime was less the	an 10 minute	c			

TABLE C4 AVERAGE RUNOFF COEFFICIENTS FOR POST-DEVELOPMENT CONDITIONS

		C _{ASPH/CONC} =	<u>0.90</u>	C _{ROOF} =	<u>0.90</u>	C _{SLA} =	<u>0.20</u>	C _{GRAVEL} =	<u>0.70</u>				
Area No.	Asphalt & Conc Areas (m ²)	A * C _{asph}	Roof Areas (m ²)	A * C _{ROOF}	Soft Landscaped Areas (m ²)	A * C _{SLA}	Gravel Areas (m ²)	A * c _{gravel}	Sum AC	Total Area (m ²)	C _{AVG} (see note)	Comment	
A1	6095.4	5485.8	511.9	460.7	8821	1764.3	2171.3	1519.9	9230.7	17600	0.52	West portion of the site	
A2	6613.0	5951.7	1233.4	1110.0	6888	1377.6	183.8	128.7	8567.9	14918	0.57	East portion of the site	
Totals			-						17799	32518	0.55	-	
Notes: Areas for each land-use are	lotes: Areas for each land-use are taken from CAD												

TABLE C5

SUMMARY OF POST-DEVELOPMENT PEAK FLOWS (Uncontrolled and Controlled)

		Time of Conc,	Storm = WQF				Storm = 2 yr			Storm = 5 yr				Storm = 100 yr			Storm = 100 yr+20%						
Area No	Area (ha)	Tc (min)	C _{AVG}	I ₅ (mm/hr)	Q (L/sec)	Q _{CAP} (L/sec)	C _{AVG}	I ₅ (mm/hr)	Q (L/sec)	Q _{CAP} (L/sec)	C _{AVG}	I ₅ (mm/hr)	Q (L/sec)	Q _{CAP} (L/sec)		I ₅ (mm/hr)	(L/sec)	Q _{CAP} (L/sec)	C _{AVG}	I ₅ (mm/hr)	Q (L/sec)	Q _{CAP} (L/sec)	Comments
A1	1.7600	10	0.52	28.45	73.01	15.03	0.52	76.81	197.09	82.76	0.52	104.19	267.37	108.19	0.66	178.56	572.76	220.00	0.66	214.27	687.31	284.30	West portion of the site
A2	1.4918	10	0.57	30.60	72.88	15.05	0.57	76.81	182.94		0.57	104.19	248.17	100.15	0.72	2 178.56 53	531.63	,31.63	0.72	214.27 637.96	204.30	East portion of the site	
Total	3.2518	-			145.89	15.03			380.03	82.76	-		515.55	108.19	-		1104.39	230.00	1325.27 284.30		1325.27 284.30		
Allowable Release Rates						82.76				82.76				111.36				236.92	236.92				
<u>Notes</u>																							-
1) Intensity, I = 43C+5.9 (Water Qu	1) Intensity, I = 43C+5.9 (Water Quality Flowrate based on MECP SMPDM)																						
2) Intensity, I = 732.951/(Tc+6.199)) ^{0.810} (2-year)																						
3) Intensity, I = 998.071/(Tc+6.053) ^{0.814} (5-year)																							
4) Intensity, I = 1735.688/(Tc+6.014	4) ^{0.820} (100-yea	ır)																					

5) Cavg for 100-year is increased by 25% to a maximum of 1.0

6) Time of Concentration, Tc =	<u>10 mins</u>
7) Controlled release rate is indicated by,	49.53

7) Controlled release rate is indicated by,

	b					rear and				,										
	Area No: C _{AVG} =	A1, A2 0.55	- (2-yr)																	
	C _{AVG} =	0.55	_(5-yr)																	
	C _{AVG} =	0.68	 (100-yr, M	lax 1.0)					Act	ual Release	Rate (L/sec) =	230.00								
Tir	ne Interval =	5.00	(mins)	,			Percentag	e of Actual			equirement) =		(Set to 50%	when U/G s	storage used)					
	nage Area =	3.2518	(hectares))			-				orage (L/sec) =			,	, j ,	Intensity	Incr (%) =	20%	Use 209	% for
	- · ·		- • •										-						Climate	Change
	R	elease Rate =	82.76	(L/sec)		Rele	ase Rate =	108.19	(L/sec)		Rele	ase Rate =	230.00	(L/sec)		Relea	se Rate =	284.30	(L/sec)	
	Re	eturn Period =	2	(years)		Retur	n Period =	5	(years)		Retu	rn Period =	100	(years)		Returi	n Period =	100+20%	(years)	
Duration	IDF Pa	rameters, A =		, B =			neters, A =		, B =			neters, A =	1735.7	, B =	0.820	IDF Param	,		- ,	0.820
Duration (mins)		(I = A/(T _c +C)	, C =	6.199	(1	= A/(T _c +C)	_	, C =	6.053	($= A/(T_c+C)$	-	, C =	6.014	$(I = A/(T_c+C))$		-	, C =	6.014
(mins)	Rainfall Intensity, I (mm/hr)	Peak Flow (L/sec)	Release Rate (L/sec)	Storage Rate (L/sec)	Storage (m ³)	Rainfall Intensity, I (mm/hr)	Peak Flow (L/sec)	Release Rate (L/sec)	Storage Rate (L/sec)	Storage (m ³)	Rainfall Intensity, I (mm/hr)	Peak Flow (L/sec)	Release Rate (L/sec)	Storage Rate (L/sec)	Storage (m ³)	Rainfall Intensity, I (mm/hr)	Peak Flow (L/sec)	Release Rate (L/sec)	Storage Rate (L/sec)	Storage (m ³)
0	167.2	827.4	82.8	744.7	0.0	230.5	1140.4	108.2	1032.2	0.0	398.6	2465.5	230.0	2235.5	0.0	478.3	2958.6	284.3	2674.3	0.0
5	107.2	512.5	82.8	429.7	128.9	141.2	698.6	108.2	590.4	177.1	242.7	1501.1	230.0	1271.1	381.3	291.2	1801.4	284.3	1517.1	455.1
10	76.8	380.0	82.8	297.3	178.4	104.2	515.5	108.2	407.4	244.4	178.6	1104.4	230.0	874.4	524.6	214.3	1325.3	284.3	1041.0	624.6
15	61.8	305.6	82.8	222.9	200.6	83.6	413.4	108.2	305.3	274.7	142.9	883.8	230.0	653.8	588.4	171.5	1060.6	284.3	776.3	698.6
20	52.0	257.5	82.8	174.7	209.6	70.3	347.6	108.2	239.4	287.3	120.0	741.9	230.0	511.9	614.3	143.9	890.3	284.3	606.0	727.2
25	45.2	223.5	82.8	140.7	211.1	60.9	301.3	108.2	193.1	289.7	103.8	642.3	230.0	412.3	618.4	124.6	770.8	284.3	486.5	729.7
30	40.0	198.1	82.8	115.4	207.7	53.9	266.8	108.2	158.6	285.6	91.9	568.2	230.0	338.2	608.8	110.2	681.8	284.3	397.5	715.6
35	36.1	178.4	82.8	95.7	200.9	48.5	240.1	108.2	131.9	276.9	82.6	510.8	230.0	280.8	589.6	99.1	612.9	284.3	328.6	690.1
40	32.9	162.6	82.8	79.9	191.6	44.2	218.6	108.2	110.4	265.0	75.1	464.8	230.0	234.8	563.5	90.2	557.7	284.3	273.4	656.2
45	30.2	149.6	82.8	66.9	180.5	40.6	201.0	108.2	92.8	250.7	69.1	427.1	230.0	197.1	532.1	82.9	512.5	284.3	228.2	616.1
50	28.0	138.7	82.8	56.0	168.0	37.7	186.3	108.2	78.1	234.4	64.0	395.6	230.0	165.6	496.7	76.7	474.7	284.3	190.4	571.1
55	26.2	129.5	82.8	46.7	154.2	35.1	173.8	108.2	65.6	216.5	59.6	368.8	230.0	138.8	458.0	71.5	442.5	284.3	158.2 130.6	522.2 470.0
60 65	24.6 23.2	121.5 114.6	82.8 82.8	38.8 31.8	139.5 124.0	32.9 31.0	163.0 153.6	108.2 108.2	54.8 45.4	197.3 177.1	55.9 52.6	345.7 325.6	230.0 230.0	115.7 95.6	416.6 372.9	67.1 63.2	414.9 390.7	284.3 284.3	130.6	415.1
70	23.2	114.0	82.8	25.7	124.0	29.4	145.3	108.2	37.1	156.0	49.8	308.0	230.0	78.0	372.9	59.7	369.5	284.3	85.2	358.0
75	20.8	103.0	82.8	20.2	91.0	27.9	138.0	108.2	29.8	130.0	47.3	292.3	230.0	62.3	280.2	56.7	350.7	284.3	66.4	298.9
80	19.8	98.1	82.8	15.4	73.7	26.6	131.4	108.2	23.2	111.6	45.0	278.3	230.0	48.3	231.7	54.0	333.9	284.3	49.6	238.2
85	18.9	93.7	82.8	11.0	56.0	25.4	125.5	108.2	17.3	88.4	43.0	265.7	230.0	35.7	181.9	51.5	318.8	284.3	34.5	176.0
90	18.1	89.8	82.8	7.0	37.9	24.3	120.2	108.2	12.0	64.7	41.1	254.3	230.0	24.3	131.1	49.3	305.1	284.3	20.8	112.5
95	17.4	86.2	82.8	3.4	19.4	23.3	115.3	108.2	7.1	40.6	39.4	243.9	230.0	13.9	79.3	47.3	292.7	284.3	8.4	47.8
100	16.7	82.9	82.8	0.1	0.6	22.4	110.9	108.2	2.7	16.1	37.9	234.4	230.0	4.4	26.6	45.5	281.3	284.3	-3.0	-17.9
Max =					211.1					289.7					618.4					729.7
) Rainfall In) Release R) Storage R) Storage =) Maximiun	tes City of Ottawa IDF Data (from SDG002) Peak flow is equal to the product of 2.78 x C x I x A IDF curve equations (Intensity in mm/hr) iainfall Intensity, I = A/(Tc+C) ⁶ 100 year Intensity = 1735.688 / (Time in min + 6.014) ^{0.820} Storage Rate = Peak Flow - Release Rate 50 year Intensity = 1569.580 / (Time in min + 6.014) ^{0.820} Storage Rate = Peak Flow - Release Rate 25 year Intensity = 1402.884 / (Time in min + 6.018) ^{0.810} Aximium Storage = Max Storage Over Duration arameters a,b,c are for City of Ottawa 998.071 / (Time in min + 6.019) ^{0.814}							$\begin{array}{c} 4) & {}^{0.820} \\ 4) & {}^{0.820} \\ 8) & {}^{0.819} \\ 4) & {}^{0.816} \\) & {}^{0.814} \end{array}$												

Storage Volumes for 2-year, 5-Year and 100-Year Storms (MRM)

Table C6

TABLE C7 Stage-Storage Data of SWM Facility

	Elev	Incr. Elev	Total Depth Above NWL	End Area	Volume
	(m)	(m)	(m)	(m2)	(m3)
Active Storage (Dry Pond)					
Top of Pond	100.44	0.24	1.04	2097	903
Interim	100.20	0.20	0.80	1379	498
Interim	100.00	0.20	0.60	716	299
Interim	99.80	0.20	0.40	618	166
Interim	99.60	0.20	0.20	521	52
Bottom	99.40	0.00	0.00	0	0
	-	-			
Sediment Forebay/Ditch					
Top of Forebay Berm	100.17	0.50	1.00	465	134
Interm	99.67	0.50	0.50	87	27
Bottom of sediment forebay	99.17	0.00	0.00	2	0
Maximum Active Storage =					903
Forebay Storage =					134
Total Pond Storage (Pond + Ditch + Sediment For	ebay) =				1,037
Forebay Area as percent of total area =					15%

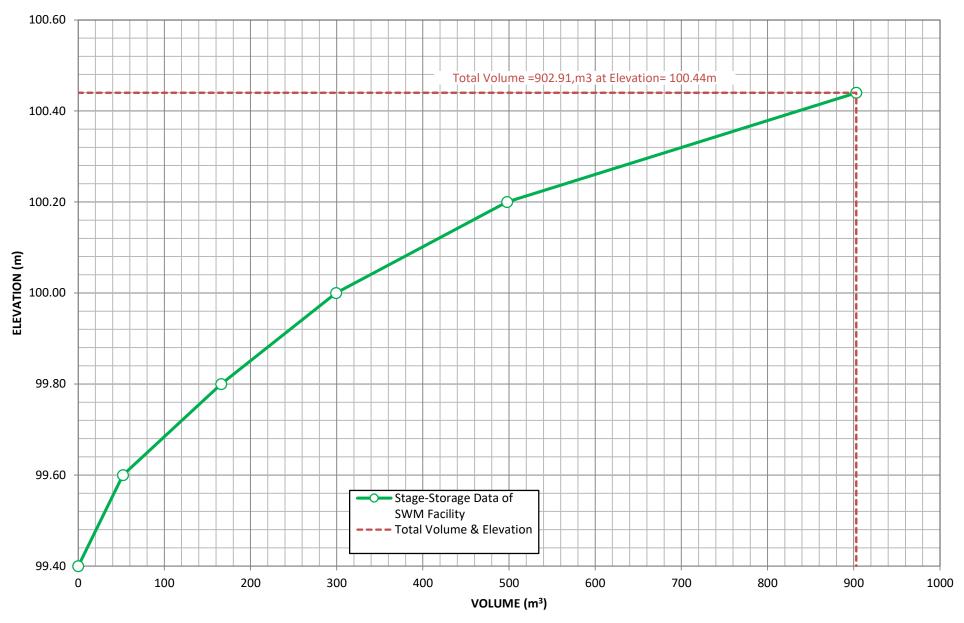


Chart C8: Stage-Storage Curve of SWM Facility

TABLE C9 Storage-Outflow Data of SWM Facility

811	100-year +20% Storm Volume (Forecasted from stage storage)
100.394	100-year+20% Storm Elev. (Forecasted based on design outflow from Table D6)
707	100-year Storm Volume (Forecasted from stage storage)
100.336	100-year Storm Elev. (Forecasted based on design outflow from Table D6)
504	5 -year Storm Volume (Forecasted from stage storage)
100.204	5-year Storm Elev. (Forecasted based on design outflow from Table D6)
458	2 -year Storm Volume (Forecasted from stage storage)
100.177	2-year Storm Elev. (Forecasted based on design outflow from Table D6)
376	Water Quality Volume (Forecasted from stage storage)
100.104	Water Quality Volume Elev. (Forecasted based on design outflow from Table D6)

			Area (m2):	0.00563	Area (m2):	0.17000
			Coeff, C:	0.61	Coeff, C:	1.837
			Orifice Inv:	99.50 m	Weir Inv:	100.10 m
			Orifice Cen:	99.538 m		
		Quantity				
		Volume (Note	Head			
WSE Elev	Comments	1)	(Note 4)	Outflow	Head, H	Outflow
(m)		(m3)	(m)	(L/sec)	(m)	(L/sec)
100.44	Top of Pond	902.91	0.903	14.44	0.3400	312.2900
100.40		822.61	0.863	14.12	0.3000	275.5500
100.35		731.09	0.813	13.70	0.2500	229.6250
100.30		647.10	0.763	13.27	0.2000	183.7000
100.25		569.47	0.713	12.83	0.1500	137.7750
100.20		497.69	0.663	12.37	0.1000	91.8500
100.15		412.41	0.613	11.89	0.0500	45.9250
100.10		373.42	0.563	11.40		
100.05		335.71	0.513	10.88		
100.00		299.26	0.463	10.34		
99.95		264.07	0.413	9.76		
99.90		230.11	0.363	9.15		
99.85		197.39	0.313	8.50		
99.80		165.90	0.263	7.79		
99.75		135.62	0.213	7.01		
99.70		106.56	0.163	6.13		
99.65		78.71	0.113	5.10		
99.60		52.06	0.063	3.80		
99.55		27.50	0.013	1.70		
99.50		10.05				
99.45		2.07				
99.40	Bottom of Pond					

1

Vertical Rectangular Orifice

0.075

0.08

Width (m)

Height (m)

2

Broad-Crested Weir

0.50

0.34

Length (m)

Height (m)

NOTES:

1) Quantity Storage values based on pond geometry and stage-storage data at 0.05m increments

2) Top of Pond = **100.44 m**

3) WSE Interval = 0.050 m

Total Flow	Storage
(L/sec)	(m3)
326.73	902.910
289.67	822.610
243.32	731.090
196.97	647.100
150.60	569.470
104.22	497.690
57.82	412.410
11.40	373.420
10.88	335.710
10.34	299.260
9.76	264.070
9.15	230.110
8.50	197.390
7.79	165.900
7.01	135.620
6.13	106.560
5.10	78.710
3.80	52.060
1.70	27.500
	10.050
	2.070

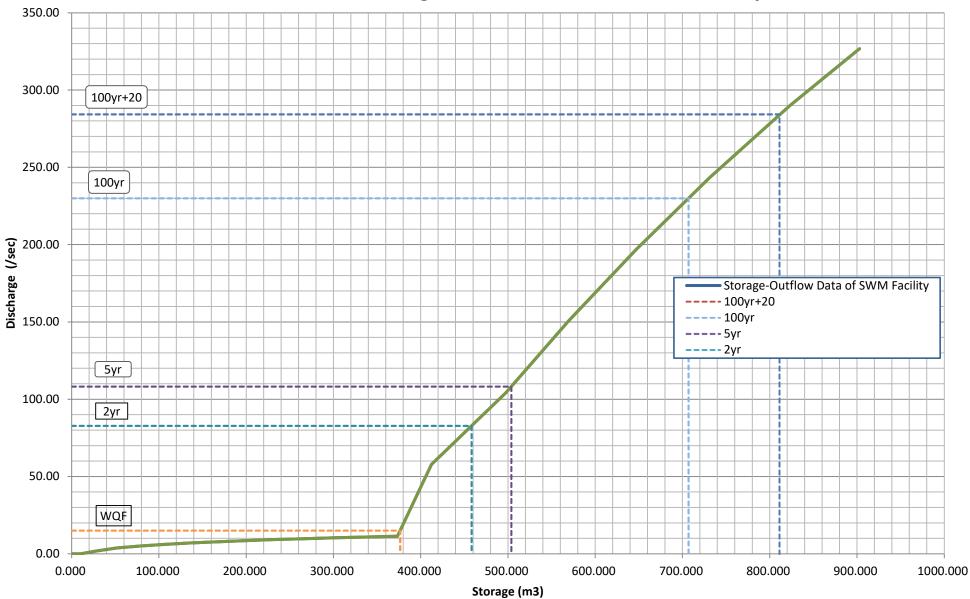


Chart D10: Storage-Outflow Curves of SWM Facility

TABLE C11

SUMMARY OF WATER QUALITY VOLUMES OF SWM FACILTITY

Pond 1					
Units	Requried	Provided	Comment		
	Extended Dete	ntion Dry Pond			
ha	3.2	25			
%	52	2%			
m3/ha	110).8	Based on MOE Table 3.2		
m3/ha	40	0.0	Based on 40 m3/ha		
m3/ha	27	.7	Based on 25% of WQCV		
m3/ha	40	0.0	Maximum of 40 m3/h or 25% of WQCV		
m3/ha	0.	0	WQCV - 40m3/ha for Wet Ponds, 0 for Dry Ponds		
m3	0	27	(WQCV - 40m3/ha) * A		
m3	360	605	Water Quality Volume = WQCV * A. Provided Volume Based on Permanent Pool + Extended Detention Volum		
m3	130	605	Based on: 40m3/ha * A OR 25%*WQCV*A		
m3	707	903	Based on City of Ottawa 100-year storm event		
	837	903	Extended Detention Is Included in Flood Control Volume for Wet Ponds		
		121			
m3 m3	0	134 1037	Based on 20% of the Permanent Pool Volume per MOE, 0 for drypond Main Cell Volume = Permanent Pool - Forbay Volume		
	ha % m3/ha m3/ha m3/ha m3/ha m3/ha m3/ha m3 m3 m3 m3 m3	Required Extended Dete ha 3.2 % 52 m3/ha 110 m3/ha 27 m3/ha 27 m3/ha 40 m3/ha 0 m3/ha 0 m3/ha 0 m3/ha 360 m3 130 m3 130 m3 707 m3 0 m3 0	Units Requried Provided Extended Detention Dry Pond A ha 3.25 % 52% m3/ha 110.8 m3/ha 40.0 m3/ha 27.7 m3/ha 0.0 m3 0 m3 0 m3 360 m3 130 m3 707 903 m3 0 m3 130		

WATER QUALITY REQUIREMENTS FOR DRY PONDS BASED ON MOE REQUIREMENTS (From Table 3.2)

Protection Level	TSS Removal Target (%)	Drainage Area %IMP	Storage Required (m3/ha)	Stormwater Management Plan Type
		0	55	
		35	90	
Normal	70%	55	110	Dry Pond. Same Level of Protection as Wet Pond
Normai		70	130	Dry Fond. Sume Lever of Flotection as wet Fond
		85	150	
		100	170	
Note: Storage Requirements for 0% and 100% are extra	polated			

TABLE C12 Area-Depth Data of SWM Facility

Elev (m)	Depth of Ponding (m)	End Area (m ²)	Comments
100.44	1.04	2,097	Top of Pond
100.10	0.70	1,158	Interim
99.60	0.20	600	Interim
99.40			Bottom
	ficient from the from the area-de	•	ression, C2 = 2762.0 ression, C3 = 377.3

TABLE C13 Drawdown Data of SWM Facility

Top ot Pond Elev (m) = Bottom of Pond Elev (m) =	100.44 99.40	<u>Comments</u>
WQCV (m3) = WQCE (m) = WCD (m) =	360 100.03 0.63	Water Quality Control Volume Based on MC Water Surface Elevation for Storage of WQC Depth (or height) of Water Control Volume.
Orifice Type = Orifice Area (m2) = Orifice Invert Elev (m) = Orifice Centroid Elev (m) = Orifice Discharge Coetticient =	Vertical Rectangular Orifice 0.0056 99.50 99.538 0.61	LOWER ORIFICE
Weir Type = Weir Area (m2) = Weir Invert Elev (m) = Weir Width (m) = Weir Side Slopes (Z) = Weir Discharge Coefficient =	Broad-Crested Weir 0.1700 100.10 0.50 1.00 1.84	UPPER ORIFICE
C2 = C3 =	2,762 377	Slope coefficient from the area-depth linear Intercept from the area-depth linear regress

~ nt

MOE Criteria(Table 3.2) VQCV. ne.

ear regression regression ntercept from the area-depth linear

	Acti	ve Storage Above NWL		Qual	ity Orifce (L	ower)	Quant	tity Orifce (Jpper)	Drawdov	wn Time	
WSE Elev (m)	VOLUME (m3)	AREA (m2)	TOTAL DEPTH ABOVE NWL (m)	Height (m)	Area (m2)	Indiv Drawdown Time (hrs)	Height (m)	Area (m2)	Indiv Drawdown Time (hrs)	HOURS	DAYS	Outflo (L/sec
100.44	903	2,097	0.94	0.94	0.0056	43.0	0.34	0.170	0.48	26.19	1.09	289.66
100.40	823	1,914	0.90	0.90	0.0056	40.8	0.30	0.170	0.42	26.13	1.09	243.32
100.35	731	1,746	0.85	0.85	0.0056	38.1	0.25	0.170	0.36	26.07	1.09	196.97
100.30	647	1,613	0.80	0.80	0.0056	35.5	0.20	0.170	0.30	26.01	1.08	150.60
100.25	569	1,492	0.75	0.75	0.0056	33.0	0.15	0.170	0.24	25.95	1.08	104.22
100.20	498	1,379	0.70	0.70	0.0056	30.5	0.10	0.170	0.18	25.88	1.08	57.820
100.15	412	1,258	0.65	0.65	0.0056	28.1	0.05	0.170	0.11	25.82	1.08	11.399
100.10	373	1,158	0.60	0.60	0.0056	25.7		0.170		25.71	1.07	10.880
100.05	336	1,067	0.55	0.55	0.0056	23.4		0.170		23.40	0.98	10.336
100.00	299	986	0.50	0.50	0.0056	21.2		0.170		21.15	0.88	9.761
99.95	264	912	0.45	0.45	0.0056	19.0		0.170		18.97	0.79	9.151
99.90	230	846	0.40	0.40	0.0056	16.9		0.170		16.85	0.70	8.496
99.85	197	791	0.35	0.35	0.0056	14.8		0.170		14.79	0.62	7.787
99.80	166	742	0.30	0.30	0.0056	12.8		0.170		12.80	0.53	7.006
99.75	136	701	0.25	0.25	0.0056	10.9		0.170		10.87	0.45	6.127
99.70	107	665	0.20	0.20	0.0056	9.0		0.170		8.99	0.37	5.098
99.65	79	632	0.15	0.15	0.0056	7.1		0.170		7.15	0.30	3.800
99.60	52	600	0.10	0.10	0.0056	5.3		0.170		5.32	0.22	1.699
99.55	28	534	0.05	0.05	0.0056	3.4		0.170		3.40	0.14	
99.50	10	304			0.0056			0.170				
99.45	2	144			0.0056			0.170				
99.40	Î Î	60			0.0056			0.170				

NOTES:

 $\frac{0.66 \ C_2 h^{1.5} + 2 \ C_3 h^{0.5}}{2.75 \ A_o}$ t =

Equation (Page 4-58 MOE Stormwater Management Planning and Design Manual)

2) Top of Pond = 100.44 m 3) WSE Interval = 0.05 m

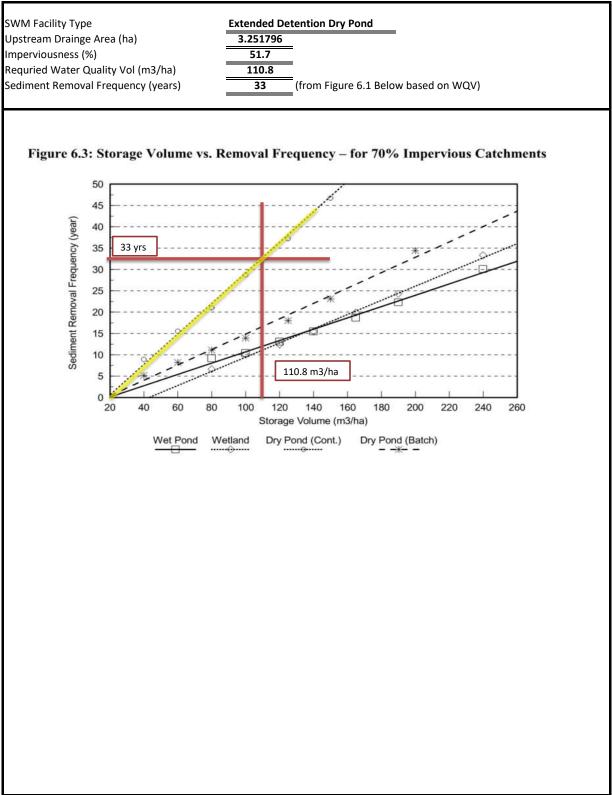
Llev of WQ Volume = 100.034 Depth of WQ Volume = 0.634 Drawdown for WQ Volume =

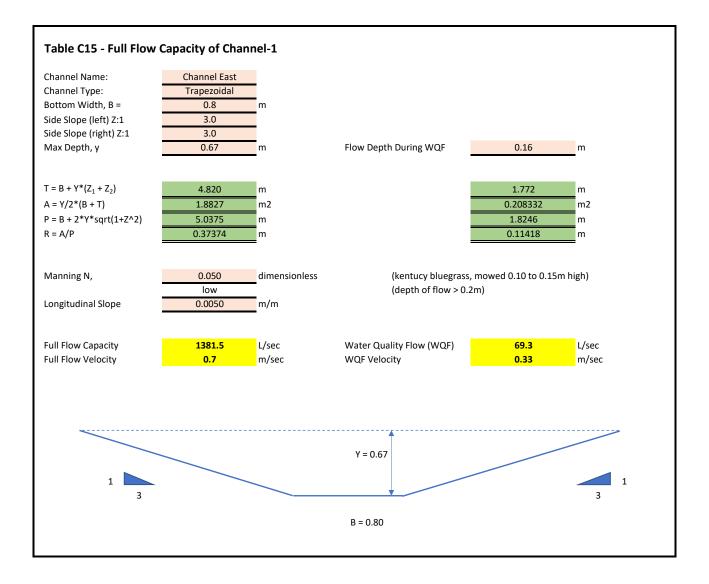
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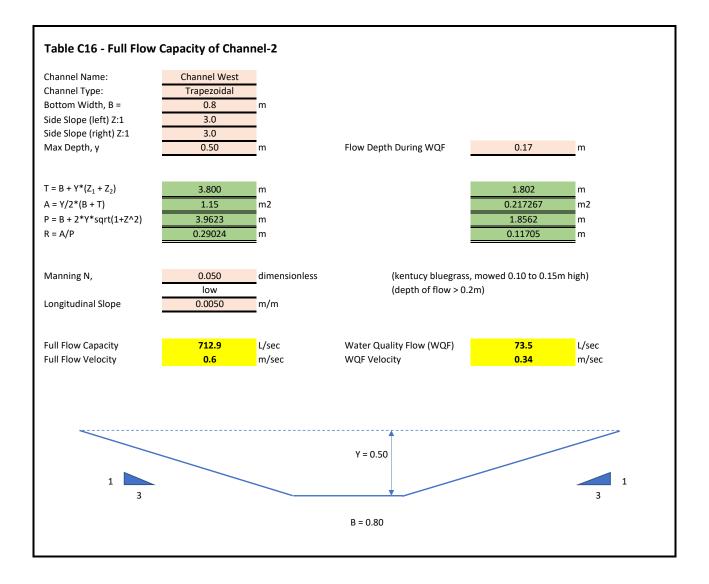
- where: Drawdown time (seconds) t = C2 = Slope coefficient from the area-depth linear regression
 - C3 = Intercept from the area-depth linear regression
 - Ao = Cross-sectional area of the orifice (m2) h = Maximium water Elevation above the orifice

flow	
'sec)	Comments
.665	Top of Pond
.325	
.972	
.604	
.221	
820	
399	
880	
336	
761	
151	
496	
787	
006	
127	
098	
800	
599	
	Bottom of Pond
	awdown Time.

TABLE C14 SEDIMENT REMOVAL FREQUENCY







EXP Services Inc. IBPS Temple 6688 Franktown Road, Ottawa, ON OTT-22027645-A0 June 6, 2025

Appendix D – Sewage Flows and Storage Volume Calculations Sheet



Mook	Day	Peak Attendance	Peak Attendance Used for Septic	Residential Population	Sewage Flows from Events (L/day)	Residential Sewage Flows	Total Sewage Flow to be Treated (1/day)	Sewage Volume Deficit from Previous		
Veek Week 1	Day Monday	Attendance 0			(L/day) 6 0	(L/day) 3000.0	Treated (L/day) 3000.0	Cycle (L/day) 0	Volume (L/day) 3000.0	
WEEK I	Tuesday	35	35		6 1260					
	Wednesday	35	35		6 1260					
	Thursday	35	35		6 1260					
	Friday	35	35		6 1260					
	Saturday	35	35		6 1260					
	Sunday	200	200		6 7200					
Week 2	Monday	0	0		6 0					
	Tuesday	35	35		6 1260					
	Wednesday	35	35		6 1260	3000.0) 4260.0	0.0	4260.0	
	Thursday	35	35	(6 1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35		6 1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	130	130	(6 4680	3000.0	7680.0	0.0	7680.0	0.0
	Sunday	330	330		6 11880	3000.0) 14880.0	0.0	10000.0	4880.0
Week 3	Monday	0	0	(6 0	3000.0) 3000.0	4880.0	7880.0	0.0
	Tuesday	35	35		6 1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35		6 1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35		6 1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35		6 1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	300	300		6 10800	3000.0) 13800.0	0.0	10000.0	3800.0
	Sunday	80	80		6 2880				9680.0	
Week 4	Monday	0	0		6 0					
	Tuesday	35	35		6 1260					
	Wednesday	35	35		6 1260					
	Thursday	35	35		6 1260					
	Friday	35	35		6 1260					
	Saturday	100	100		6 3600					
	Sunday	360	360		6 12960					
Week 5	Monday	0			6 0					
	Tuesday	30	30		6 1080					
	Wednesday Thursday	30 30			6 1080 6 1080					
	Friday	30			6 1080					
	Saturday	30	30		6 1080					
	Sunday	200	200		6 7200					
Week 6	Monday	0	0		6 0					
THE CER C	Tuesday	30			6 1080					
	Wednesday	30			6 1080					
	Thursday	30			6 1080					
	Friday	30	30		6 1080					
	Saturday	500	500		6 18000					
	Sunday	5000	1000		6 36000					
Week 7	Monday	0			6 0					33000.0
	Tuesday	30	30		6 1080	3000.0) 4080.0	33000.0	10000.0	27080.0
	Wednesday	30	30	(6 1080	3000.0	4080.0	27080.0	10000.0	21160.0
	Thursday	30	30		6 1080	3000.0	4080.0	21160.0	10000.0	15240.0
	Friday	30	30	(6 1080	3000.0	4080.0	15240.0	10000.0	9320.0
	Saturday	30	30		6 1080	3000.0	4080.0	9320.0	10000.0	3400.0
	Sunday	350	350		6 12600	3000.0) 15600.0	3400.0	10000.0	9000.0
Week 8	Monday	0	0		6 0	3000.0) 3000.0	9000.0	10000.0	2000.0
	Tuesday	35	35		6 1260	3000.0	4260.0	2000.0	6260.0	0.0
	Wednesday	35	35		6 1260					
	Thursday	35			6 1260					
	Friday	35	35		6 1260					
	Saturday	35			6 1260					
	Sunday	260			6 9360					
Week 9	Monday	0			6 0					
	Tuesday	35	35		6 1260					
	Wednesday	35			6 1260					
	Thursday	35	35		6 1260					

	Saturday	150	150	6	5400	3000.0	8400.0	0.0	8400.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 10	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	150	150	6	5400	3000.0	8400.0	0.0	8400.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 11	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	30	30	6	1080	3000.0	4080.0	0.0	4080.0	0.0
	Wednesday	30	30	6	1080	3000.0	4080.0	0.0	4080.0	0.0
	Thursday	30	30	6	1080	3000.0	4080.0	0.0	4080.0	0.0
	Friday	30	30	6	1080	3000.0	4080.0	0.0	4080.0	0.0
	Saturday	100	100	6	3600	3000.0	6600.0	0.0	6600.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 12	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 13	-	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
,	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	360	360	6	12960	3000.0	15960.0	0.0	10000.0	5960.0
Week 14	-	0	0	6	0	3000.0	3000.0	5960.0	8960.0	0.0
, i	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	-	35	35	6	1260		4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0 3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6						0.0
l.	Saturday				1260	3000.0	4260.0	0.0	4260.0	
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 15		0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
,	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 16	-	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 17	-	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
	Sunday	350	350	6	12600	3000.0	15600.0	2360.0	10000.0	7960.0
Week 18	Monday	0	0	6	0	3000.0	3000.0	7960.0	10000.0	960.0
	Tuesday	35	35	6	1260	3000.0	4260.0	960.0	5220.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	1000	1000	6	36000	3000.0	39000.0	0.0	10000.0	29000.0

Week 19	Monday	0	0	6	0	3000.0	3000.0	29000.0	10000.0	22000.0
	Tuesday	35	35	6	1260	3000.0	4260.0	22000.0	10000.0	16260.0
	Wednesday	35	35	6	1260	3000.0	4260.0	16260.0	10000.0	10520.0
	Thursday	35	35	6	1260	3000.0	4260.0	10520.0	10000.0	4780.0
	Friday	35	35	6	1260	3000.0	4260.0	4780.0	9040.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Veek 20	-	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Veek 21	-	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
VEEKZI	-	35		6	1260		4260.0			
	Tuesday		35			3000.0		0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	1000	1000	6	36000	3000.0	39000.0	0.0	10000.0	29000.0
Neek 22	-	0	0	6	0	3000.0	3000.0	29000.0	10000.0	22000.0
	Tuesday	35	35	6	1260	3000.0	4260.0	22000.0	10000.0	16260.0
	Wednesday	35	35	6	1260	3000.0	4260.0	16260.0	10000.0	10520.0
	Thursday	35	35	6	1260	3000.0	4260.0	10520.0	10000.0	4780.0
	Friday	35	35	6	1260	3000.0	4260.0	4780.0	9040.0	0.0
	Saturday	100	100	6	3600	3000.0	6600.0	0.0	6600.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Veek 23	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Veek 24	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 25	-	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	300	300	6	10800	3000.0	13800.0	0.0	10000.0	3800.0
	Sunday	560	560	6	20160	3000.0	23160.0	3800.0	10000.0	16960.0
Neek 26	-	335	335	6	12060	3000.0	15060.0	16960.0	10000.0	22020.0
veek 20	-									
	Tuesday	335	335	6	12060	3000.0	15060.0	22020.0	10000.0	27080.0
	Wednesday	335	335	6	12060	3000.0	15060.0	27080.0	10000.0	32140.0
	Thursday	335	335	6	12060	3000.0	15060.0	32140.0	10000.0	37200.0
	Friday	35	35	6	1260	3000.0	4260.0	37200.0	10000.0	31460.0
	Saturday	35	35	6	1260	3000.0	4260.0	31460.0	10000.0	25720.0
	Sunday	260	260	6	9360	3000.0	12360.0	25720.0	10000.0	28080.0
Veek 27	Monday	185	185	6	6660	3000.0	9660.0	28080.0	10000.0	27740.0
	Tuesday	185	185	6	6660	3000.0	9660.0	27740.0	10000.0	27400.0
	Wednesday	185	185	6	6660	3000.0	9660.0	27400.0	10000.0	27060.0
	Thursday	185	185	6	6660	3000.0	9660.0	27060.0	10000.0	26720.0
	Friday	185	185	6	6660	3000.0	9660.0	26720.0	10000.0	26380.0
	Saturday	35	35	6	1260	3000.0	4260.0	26380.0	10000.0	20640.0
	Sunday	360	360	6	12960	3000.0	15960.0	20640.0	10000.0	26600.0
Week 28	Monday	100	100	6	3600	3000.0	6600.0	26600.0	10000.0	23200.0
		100	100	6	3600	3000.0	6600.0	23200.0	10000.0	19800.0

	Wednesday	100	100	6	3600	3000.0	6600.0	19800.0	10000.0	16400.0
	Thursday	100	100	6	3600	3000.0	6600.0	16400.0	10000.0	13000.0
	Friday	100	100	6	3600	3000.0	6600.0	13000.0	10000.0	9600.0
	Saturday	35	35	6	1260	3000.0	4260.0	9600.0	10000.0	3860.0
	Sunday	260	260	6	9360	3000.0	12360.0	3860.0	10000.0	6220.0
Veek 29	Monday	0	0	6	0	3000.0	3000.0	6220.0	9220.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	235	235	6	8460	3000.0	11460.0	0.0	10000.0	1460.0
	Sunday	460	460	6	16560	3000.0	19560.0	1460.0	10000.0	11020.0
Week 30	-	0	0	6	0	3000.0	3000.0	11020.0	10000.0	4020.0
	Tuesday	35	35	6	1260	3000.0	4260.0	4020.0	8280.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	235	235	6	8460	3000.0	11460.0	0.0	10000.0	1460.0
	Sunday	460	460	6	16560	3000.0	19560.0	1460.0	10000.0	11020.0
Veek 31	Monday	235	235	6	8460	3000.0	11460.0	11020.0	10000.0	12480.0
	Tuesday	235	235	6	8460	3000.0	11460.0	12480.0	10000.0	13940.0
	Wednesday	235	235	6	8460	3000.0	11460.0	13940.0	10000.0	15400.0
	Thursday	235	235	6	8460	3000.0	11460.0	15400.0	10000.0	16860.0
	Friday	235	235	6	8460	3000.0	11460.0	16860.0	10000.0	18320.0
	Saturday	35	35	6	1260	3000.0	4260.0	18320.0	10000.0	12580.0
	Sunday	260	260	6	9360	3000.0	12360.0	12580.0	10000.0	14940.0
Nook 22	Monday	0	0	6	0	3000.0	3000.0	14940.0	10000.0	7940.0
veek 32	Tuesday	35	35	6	1260	3000.0	4260.0	7940.0	10000.0	2200.0
	-									
	Wednesday	35	35	6	1260	3000.0	4260.0	2200.0	6460.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Veek 33	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Neek 34	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	100	100	6	3600	3000.0	6600.0	0.0	6600.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Neek 35	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Veek 36	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
	-	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
Veek 27		0	U	0	0	0000.0	0000.0	2000.0	0000.0	
Veek 37	-	25	25	6	1260	3000 0	1260 0	0.0	1260 0	<u>^ ^</u>
Neek 37	Tuesday Wednesday	35 35	35 35	6 6	1260 1260	3000.0 3000.0	4260.0 4260.0	0.0	4260.0 4260.0	0.0

	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Veek 38	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
week 38	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 39	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 40	-	200	0	6	9300	3000.0	3000.0	2360.0	5360.0	0.0
Week 40	-	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Tuesday									
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 41	-	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	185	185	6	6660	3000.0	9660.0	0.0	9660.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 42	-	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	185	185	6	6660	3000.0	9660.0	0.0	9660.0	0.0
Neek 43	Monday	0	0	6	0	3000.0	3000.0	0.0	3000.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 44	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Neek 45	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	100	100	6	3600	3000.0	6600.0	0.0	6600.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Veek 46	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
			50	v	1200					
	-	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday Friday	35 35	35 35	6 6	1260 1260	3000.0 3000.0	4260.0 4260.0	0.0 0.0	4260.0 4260.0	0.0 0.0

	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 47	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 48	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 49	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 50	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 51	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 52	Monday	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
	Tuesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Wednesday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Friday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Saturday	35	35	6	1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
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EXP Services Inc. IBPS Temple 6688 Franktown Road, Ottawa, ON OTT-22027645-A0 June 6, 2025

Appendix E – Additional Information



Requirements

The following is to be brought to a Client Service Centre:

1) Application form for Ste Plan Control: Application for New Development, Manager Approval, Public Consultation which can be found at:

http://app06.ottawa.ca/online services/forms/ds/site plan control en.pdf

- 2) Application Fee Of \$23,483.66
 - \$21,508.66 for Site Plan Application Type
 - \$ 1,000 for Engineering Design Review and Inspection Fee (unless you think should be more)
 - \$975 Conservation Authority Fee
- 3) Plans
 - Street level visualization of the proposed development (.jpg or .pdf format) optional
 - Survey Plan (2 copies)
 - Ste Plan (10 copies)
 - Landscape Plan (10 copies) prepared by a Landscape Architect
 - Architectural Elevation Drawings including dimensions & materials (3 copies)
 - Grade Control and Drainage Plan (5 copies)
 - Ste Servicing Plan (5 copies)
 - Stormwater Management Plan (5 copies)
 - Erosion and Sediment Control Plan (5 copies)

All plans and drawings must be produced on A1-sized paper and folded to 21.6 cm x 27.9 cm $(81/2^{\circ} x 11^{\circ})$. A scale of 1:200 is recommended for the Ste and Landscape Plans.

Studies

- Planning Rationale including Design Statement and Integrated Environmental Review Statement (3 copies)
- Minimum Distance Separation (MDS) (3 copies) for institutional uses a review of a 2km radius is required.
- Geotechnical Study (3 copies)
- Hydrogeological and Terrain Analysis (3 copies)
- Reasonable Use Assessment (if flows will exceed 10,000 L/d (3 copies)
- Stormwater Management Brief (3 copies)
- Environmental Impact Statement (3 copies)
- Tree Conservation Report (3 copies)
- Transportation Impact Brief (3 copies)
- 4) Electronic copies of all required studies and plans must be supplied on a Compact Disk on memory stick in Adobe .pdf format. These documents will be made publicly available on the Oty's Development Application Search Tool.

Comments

- 1) For more details on Development Applications can refer to links <u>Development application</u> review process, <u>Guide to Preparing studies and Plans</u>.
- 2) Recommend that you contact the Ward Councillor, who is Scott Moffatt (scott.moffatt@ottawa.ca or 613-580-2491), neighbours who may be impacted by the

development and the following Community groups, before submitting an application (as they will be circulated when the application is provided):

Country Cub Village Community Association Attn: Denyse MacKenzie Phone Day: 613-253-0026 <u>denysemackenzie@xplornet.ca</u> 6 Links Drive South Ashton, Ontario K0A 1B0

Richmond Village Association Attn: John Shearer Phone Day: 613-838-4830 johnshearer@richmondvillage.ca; davidproulx@richmondvillage.ca 208 Cedarstone Street Richmond, Ontario K0A 2Z0

- 3) Comments from Rideau Valley Conservation Authority (RVCA):
 - There is a ditch running along the front of the property, identified as a watercourse, tributary to the Jock River. Development is to be setback 30 metres from the watercourse. Any new crossings/relocation of culverts will be subject to a permit from the RVCA.
 - Additionally, Stormwater Management will need to demonstrate that water quality protection is maintain 80% TSS removal.
 - If the site is to be on Private Services, it may be subject to review and permitting through the Ottawa Septic Office (or MOE based on sizing)
 - Stormwater will need to be controlled post to pre for the 5 year and 100 year events.
 - the proponent will need to provide 80% TSS removal for the proposal.
 - For private on-site wastewater systems, the flows for this type of development often exceed 10,000 L/day and therefore may require approval from Ministry of the Environment and Climate Change (MOECC). If flows are less than 10,000 L per day, the Ottawa Septic System Office (OSSO) would be involved with the review through the RVCA. A permit from the OSSO or an Environmental Compliance Approval (ECA) from MOECC is normally a requirement before completion granting Ste Plan Approval, to show that the proposed on-site system is consistent with the site plan.
- 4) Franktown Road is an arterial road. Per the City's OP a right-of-way protection of 30m is required; i.e. 15m from the existing centreline of the road to the property line.
- 5) The site access should be designed and implemented in accordance to the City's Private Approach By-law.
- 6) Depending on the interface be between the Entrance Landscape Courtyard and Franktown Road Right of Way, may want to consider a landscaped buffer between the courtyard and the front property line. The design will need to take into consideration that there is a ditch.
- 7) If you have any questions regarding the Transportation Impact Brief, please feel free to contact Amira directly @ <u>amira.shehata@ottawa.ca</u>, 613-580-2424 x 27737.
- 8) Planning Rationale:

- Reference to policies of the <u>Official Plan</u>, particularly policies 3.7.2 General Rural Area, 3.2 – Natural Environment, 4.6.4 - Scenic Entry Route, and 4.7.5 Protection of Groundwater Resources
- References to <u>Zoning By-law</u>, particularly Rural Exceptions (Section 240) for Rl[643r] and Rl[644r], Rural Institutional Zone (Sec 223-224), Rural Countryside Zone (Section 227-228), Accessory uses, Buildings and Structures (Section 55), Place of Worship (Section 96), parking, Queuing and Loading Provisions (Section 100-114)
- 9) Hydrogeological:
 - Must address the fact that the subject site is within a Wellhead Protection Area
 - Will need to drill well and test it as per MOECC guidelines as a minimum (more testing may be required depending on the scope of the project—this should be discussed with the City prior to starting the hydrogeological investigation).
 - Will need to determine how MOECC defines what the City calls an accessory rooming house and what criteria to apply for the Drinking Water System.
 - Will need to include a reasonable use assessment if flows exceed 10,000 L/d.
 - Will want to start discussions with MOECC as soon as possible because it can take up to a year for their approval.
- 10) Require Permit To Take Water if any water taking exceeds 50,000 litres per day.
- 11) Not sure if MOECC will need to approve stormwater but most likely will need to approve the sewage system (if the flows >10,000 L/d). Registration with either the MOECC or the City's Health Dept. will be required depending on the category of the Drinking Water System.
- 12) Site Plan:
 - To show fire route
- 13) Environmental Impact Statement (EIS)
 - The property is indicated in Schedule L2 as part of our Natural Heritage System due to the significant woodlands which triggers an ElS along with the potential for Endangered and Threatened Species Habitat.
 - The ElSis to conform with the Council-approved guidelines which are available here: <u>http://documents.ottawa.ca/sites/documents.ottawa.ca/files/documents/eis_guideline_s2015_en.pdf</u>
 - Consultation with the Ministry of Natural Resources and Forestry very important to ensure all endangered and threatened species are considered and some of these have very particular survey requirements, for example the Whip-poor-will.
 - Should start before the end of June due to seasonal studies being required.
 - The EIS will need to demonstrate that their project will not have a significant negative impact on the significant woodlands and that any endangered and/or threatened species habitat present is protected as per MNRF requirements.
- 14) Tree Conservation Report (TCR) is required to demonstrate how trees will be retained and incorporated into the landscaping.
 - could be combined with the EISto simplify the coordination between the EIS and TCR reports.
- 15) The error in the zoning by-law for exception 643r has been corrected with the removal of the '- h'.
- 16) It appears that no development buildings are in the area of Archaeological Potential so an Archaeological Pesource Assessment will not be required.
- 17) Will there be a connection between this property and the residential property in the northeast corner from the 6688 Franktown?

- 18) Design has changed significantly from the Concept Plan provided with the rezoning application, from the pre-consult in June 2005, and the downscaling noted in May of 2016.
 - Appears to be more hardscape and less features protected.
 - More parking (200 spaces)
 - Sightly larger building
 - Less uses? (previously proposed classroom, gift shop, office, main hall, conference room, storage, rooming house, pagoda
 - Private Approach will it conform to the Private Approach By-law?
 - sculptures



Archaeological potential

	Scan - Email -Phone
Otrawa Septin Burger	Folder – CanadaPost -PickUp Box
 Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa 	APPLICATIO
3889 Rideau Valley Drive Box 599 Manotick, ON K4M 1A5	SEPTIC APPLICATION
	18-0 - ALL
Addross of and address of ad	'septic@rvca.ca
Address of property: 6688 Wanktow Township: OSG HUN-G	LO-FIT-CUM-NEP-GOU-RID-KAN
Contact for pickup: Internetional Buddhes Phone#/Email: 1 bing	Go, li 2 hippo p
	iance Omeraloshperg. Co
The officer of owner/APPLICA	ANI
	Rost: 1950 South St.
Attached is your Sewage System Permit. A minimum of two inspections are require system can be approved for use (additional inspections may be required for clay inspections). Inspections must be requested in writing. Please son attached	d before your proposed sewage
inspections). Inspections must be requested in writing. Please see attached:	solls/bedrock and/or re-
 Inspection fax request form (all inspections MUST be requested in writing) As-built components and drawing 	
no built components and drawing form	
 Copy of the approved application and schedule pages 	
 Approved Part 8 permit (applicant copy – YELLOW)(city copy#2 – PINK ** Ag 	ent Deliver Direct To City**)
- A permit is valid for 12 months from the original data	
- A permit is valid for 12 months from the original date of issuance noted is may be renewed only once for a period of 12 months from the date of expiry.	n "permit date". If lapsed, it
- No person shall make a material change or cause a material change to be ma document or other information on the basis of which a permit was issued with	de to a plan specification
document or other information on the basis of which a permit was issued withou and obtaining the authorization of the Chief Building Official (Building Code A	at notifying, filing details with
and obtaining the authorization of the Chief Building Official. (Building Code Act	1992, c.23, s.8(12))
Sewage System Permit Construction Requirement	•
1. Clay Soils/Bedrock only (if required per issued Annual I	
The start source of stip proposition increasing in the start is the	
Scorition must be t	
ocalification must be done under dry conditions prior to importing leaching bed fill.	ust be properly prepared.
2. Installation Inspection - 2 nd inspection	
2. Installation Inspection – 2 nd inspection When the sewage system is substantially completed (i.e. to for the formula formu	
 2. Installation Inspection – 2nd inspection When the sewage system is substantially completed (i.e., before the final fill is placed over bed system) an installation inspection is required. Prior to any inspection 	
 2. Installation Inspection – 2nd inspection When the sewage system is substantially completed (i.e., before the final fill is placed or bed system) an installation inspection is required. Prior to any inspection request, the for a) "as-built components" and "as-built drawings" – see attached form b) "engineer letter" – if the system is engineered 	ver the septic tank and leaching llowing must be submitted:
 2. Installation Inspection – 2nd inspection When the sewage system is substantially completed (i.e., before the final fill is placed or bed system) an installation inspection is required. Prior to any inspection request, the for a) "as-built components" and "as-built drawings" – see attached form b) "engineer letter" – if the system is engineered c) grain size analysis and weight bills for all Filter Madia target of an an an an an analysis and weight bills for all Filter Madia target of an analysis and weight bills for all filter Madia target of an an	ver the septic tank and leaching llowing must be submitted:
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 2. Installation Inspection – 2nd inspection When the sewage system is substantially completed (i.e., before the final fill is placed or bed system) an installation inspection is required. Prior to any inspection request, the for a) "as-built components" and "as-built drawings" — see attached form b) "engineer letter" — if the system is engineered c) grain size analysis and weight bills for all Filter Media types of septic systems d) Weigh bills for washed septic stone, where applicable e) Maintenance/service contract for treatment unit installed 	ver the septic tank and leaching llowing must be submitted:
 2. Installation Inspection – 2nd inspection When the sewage system is substantially completed (i.e., before the final fill is placed or bed system) an installation inspection is required. Prior to any inspection request, the for a) "as-built components" and "as-built drawings" — see attached form b) "engineer letter" — if the system is engineered c) grain size analysis and weight bills for all Filter Media types of septic systems d) Weigh bills for washed septic stone, where applicable e) Maintenance/service contract for treatment unit installed 3. Final Grading Inspection = 3rd inspection 	ver the septic tank and leaching llowing must be submitted:
 2. Installation Inspection – 2nd inspection When the sewage system is substantially completed (i.e., before the final fill is placed or bed system) an installation inspection is required. Prior to any inspection request, the for a) "as-built components" and "as-built drawings" — see attached form b) "engineer letter" — if the system is engineered c) grain size analysis and weight bills for all Filter Media types of septic systems d) Weigh bills for washed septic stone, where applicable e) Maintenance/service contract for treatment unit installed 3. Final Grading Inspection – 3rd inspection 	ver the septic tank and leaching llowing must be submitted:
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Inspection Request Form

System Office Septiq	u des systèmes ues d'Ottawa			SEPTIC APPERTY X 1129
Inspection	Request Fo	orm		18-0 - OR AL
Complete and fax to: 6	13-692-1507 or e-ma	il: septic@rv	'ca.ca	REQUIRED FOR
Section A. Property and	General Information		San a	
Date Submitted		Se	ptic File Numb	
Civic Address			pact ne rauno	
	🔲 Osgoode 🔲 Cumber	land 🔲 Goulbo		
Former Township				n 🔲 Nepean
Property Owner	Huntley Rideau	Glouce	ester 🔲 Fitzroy	🗌 Kanata 🔲 Ottawa
		•		
Section B. Requestor In	formation		North Reality of the	
Name of Requestor		Ph	one Number:	
E-mail			x Number:	
I am the (check one)	Installer Enginee			
Section C Law Dave		i inoperty (Owner	
Section C. I am Reques	ting the following:	And the grad		
1 st - Subgrade (If	2 nd – Installation Ir	spection	3rd - Fir	nal Grade Inspection
required - check one):	(Check all that apply)			ial Grade inspection
Scarification	Refer to attached:		Note: Tops	soil must be applied
Clay Seal	As-Built Compone	nts Page	unless win	iter conditions exist
Subgrade	As-Built Drawing		at Director	's discretion
	Engineers Letter	2		
	Filter Media Bills			ncies must be
	Grain Size Analysi			from installation
	Maintenance Agre		report	
Notes/Comments	ESA Permit Numb	er:		
Notes/Comments				
Section D. Re-inspectio				· · · ·
Re-inspection - 1 st call	Re-inspection Req	uest – 2 nd cal	<u> </u>	
	Note: Re-inspection for Please provide payme	ee applies on ent informatio	requests for sa	ame deficiency –
	Card Type:	Mastercar		Visa
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	Cardholder Name:			-Aprily.
Notes/Comments				
Please Note:				

Main Phone: 613-692-3579 x 1129

iness day turn around for inspections

OSSO file will be given to inspector upon receipt of this request form •

PRIORITY will be given to requests that have septic file/permit numbers

Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa

AS-BUILT COMPONENTS (r

equired prior	to	installation	inspection)	
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Elevations of installed system must be supplied with this report (in reference to the TBM) RIES

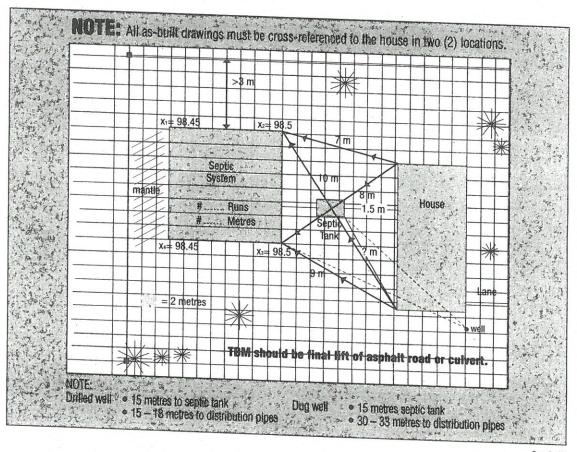
Exact size and location of all structures, well(s) and system(s) and its components must be sh

Septic/Holding Tank:		1
Manufacturer:		L
	other	
Filter: 🗅 no 🗅 yes		make
Treatment: Make		
Unit: Model		
Diameter of pipes	mm	inches
Make of pipes:	they	1101163
Ends: Capped intercor	nected	
Number of runs:		m
Length of runs:		m
Stone area		111 m ²
Filter media:		111
Amount Purchased:		ko
Date Purchased:		NY
Supplier:		
Grain/size analysis by:		
Analysis dated:		
Stone:		
Amount Purchased:		ka
Date Purchased:		ky
Supplier:		

Name of owner:	
Installer:	
Installer Signature:	
License Number:	
Date of Installation:	
Pump Systems:	
ESA Permit #:	
Volume discharge rates:	/15min
Alarm location:	/ 13/1///
Dimension of Pump Chamber:	
Height of Float Switch:	
Grease Interceptor:	
🗅 no 🗅 yes Size:	
Location:	

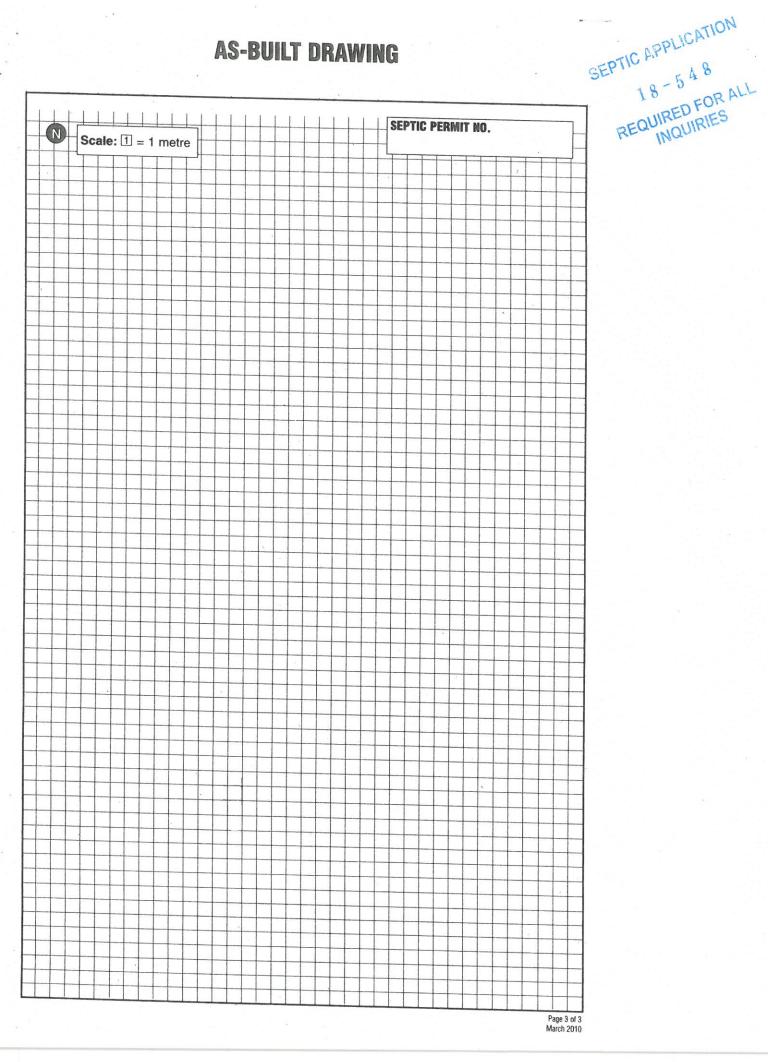
* Grain Size Analysis and weight bills must be supplied with this report.

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Page 2 of 3 March 2010

AS-BUILT DRAWING



RECE	IPT C	ONF	IRM/	ATIO	N

12778

Batch #

1

hone: (613) 692-3571 ax: (613) 692-0831 MOUNT RECEIVED 965.00 ROM Patrick Leblanc SIGNATURE SIGNATURE YAID BY: CHECK CHECK/RECEIPT NO.: 000012778-00010 DATE RECEIVED: 4/2 MOUNT DESCRIPTION DESCRIPTION AMOUNT 4300-20-20600 NEW 6688 Franktown Road (GOU) Septic File 18-548 965.00	try #: 10		da.edu.h.dililik	
INDUEK, Ontario K4M 1A5 nada nor: (613) 692-3571 x: (613) 692-3571 SIGNATURE 965.00 SIGNATURE SIGNATURE ND BY: CHECK CHECK/RECEIPT NO.: 000012778-00010 DATE RECEIVED: 4/2 DESCRIPTION DATE RECEIVED: 4/2 1300-20-20600 NEW 6688 Franktown Road (GOU) Septic File 18-548 965.0				
OM Patrick Leblanc SIGNATURE ID BY: CHECK CHECK/RECEIPT NO.: 000012778-00010 DATE RECEIVED: 4/2 DESCRIPTION DESCRIPTION AMOUNT 300-20-20600 NEW 6688 Franktown Road (GOU) Septic File 18-548 965.00	notick, Ontario K4M 1A5 nada one: (613) 692-3571		DOCUMENT NO.:	PY000033782 DATE: 4/23/2019
DBY: CHECK CHECK/RECEIPT NO.: 000012778-00010 DATE RECEIVED: 4/2 DESCRIPTION DESCRIPTION AMOUNT 300-20-20600 NEW 6688 Franktown Road (GOU) Septic File 18-548 965.00	OUNT RECEIVED		1 	965.00 CA
D BY: CHECK CHECK/RECEIPT NO.: 000012778-00010 DATE RECEIVED: 4/2 DESCRIPTION DESCRIPTION AMOUNT 300-20-20600 NEW 6688 Franktown Road (GOU) Septic File 18-548 965.00	M Patrick Leblanc			
D BY: CHECK CHECK/RECEIPT NO.: 000012778-00010 DATE RECEIVED: 4/2 DESCRIPTION DESCRIPTION AMOUNT 300-20-20600 NEW 6688 Franktown Road (GOU) Septic File 18-548 965.00				
D BY: CHECK CHECK/RECEIPT NO.: 000012778-00010 DATE RECEIVED: 4/2 DESCRIPTION DESCRIPTION AMOUNT 300-20-20600 NEW 6688 Franktown Road (GOU) Septic File 18-548 965.00				6
DESCRIPTION AMOUNT 300-20-20600 NEW 6688 Franktown Road (GOU) Septic File 18-548 965.00			SIGNAT	ſURE
300-20-20600 NEW 6688 Franktown Road (GOU) Septic File 18-548 965.0	ID BY: CHECK	CHECK/RECEIPT NO.: 000012778-00010) DAT	E RECEIVED: 4/23/2019
		DESCRIPTION		AMOUNT
SUB-TOTAL: 965.0	300-20-20600	NEW 6688 Franktown Road (GOU) Septic File 18-548		965.00
			SUB-TO	965.00
TOTAL: 965.0				DTAL: 965.00

Application for a Permit to Construct or Demolish

		I his for	m is authorized under su	bsection 8(1.1) of the Bu	lig Code Act, 1992	
	For use by	Principa	Authority			
Application number:		Permit r	umber (if different):	APR 2 3 2019		
Date received:		Roll nur	nber:	SEPTIC A	-548	
Application submitted to:			SYSTEM OFF ard of health or conserve	ICE REQUIE ation authority)	- 5 4 8 RED FOR ALL QUIRIES	
A. Project information						
Building number, street name				Unit number	Lot/con.	
6688 Franktown Road					Part Lot 19, Con 3	
Municipality Ottawa, Geographic Township of Goulbourn	Postal code K0A 2Z0		Plan number/other o	lescription		
Project value est. \$			Area of work (m ²)	·924 sq.m		
				-924 Sq.m		
B. Purpose of application				an and the state		
New construction Addition existing		Altera	ation/repair	Demolition	Conditional Permit	
Proposed use of building	Curr	ent use of	building			
Assembly/Place of Worship		N/A				
Description of proposed work						
Proposed development of a Class 4 leaching ture development of a place of worship. Leaching bed designed, as per this application tem which are expected to form part of a lat MECP) have been overdesigned for this real	tion, is intende rger approval	ed to serv	rice the interim facili	ty. Some componen	its of the sys-	
C. Applicant Applicant is:	Owner or	<	Authorized agent of			
Last name Leblanc	First name Patrick		Corporation or partnership McIntosh Perry Consulting Engineers			
Street address 115 Walgreen Road, R.R	R. #3			Unit number	Lot/con.	
Municipality Carp	Postal code K0A 1L0		Province Ontario	E-mail p.leblanc@mcintos	shperry.com	
Telephone number (613) 714-4586	Fax (613) 836	-3742		Cell number (613) 229-586	63	
D. Owner (if different from applicant)						
Last name	First name		Corporation or partr	nership		
			International Buddh	ist Progress Society of	f Ottawa-Carleton	
Street address 1950 Scott Street				Unit number	Lot/con.	
Municipality City of Ottawa	Postal code		Province	E-mail	1	
	K1Z 8L8		Ontario	bingfeng.li@	bingpro.ca	
Telephone number	Fax			Cell number		
(613) 759-8111				()		
Application for a Permit to Construct or Demolish - Effe	ective January 1, 2	2014		OSSO version Jui	ne 2014	

E. Builder (optional)				
Last name	First name	Corporation or partnership (i	f applicable)	
		D PFCE	IVED	
Street address		R.V.C.A. TUni	t number	Lot/con.
Municipality	Postal code	Province APR L DE-m	nail	NON
Telephone number	Fax	Cel	SEPTIC APP	PLICATION
()	()		SEPTIC	. 0
F. Tarion Warranty Corporation (Onta	rio New Home Warr	anty Program)	18-	540
i. Is proposed construction for a new ho <i>Plan Act</i> ? If no, go to section G.			Yes	NOX ALL
ii. Is registration required under the Ont	ario New Home Warrar	nties Plan Act?	Yes INC	UNOLS
iii. If yes to (ii) provide registration numb	er(s):			
G. Required Schedules				
i) Attach Schedule 1 for each individual who r	eviews and takes resp	onsibility for design activities.		
ii) Attach Schedule 2 where application is to co	onstruct on-site, install	or repair a sewage system.		
H. Completeness and compliance with	n applicable law			
 This application meets all the requirements Building Code (the application is made in the applicable fields have been completed on the schedules are submitted). 	ne correct form and by	the owner or authorized agent, al	I Yes x	No
Payment has been made of all fees that an regulation made under clause 7(1)(c) of the application is made.	e Building Code Act, 19	92, to be paid when the	Yes X	No
ii) This application is accompanied by the plan resolution or regulation made under clause	ns and specifications pr 7(1)(b) of the <i>Building</i>	rescribed by the applicable by-law Code Act, 1992.	Yes x	No
iii) This application is accompanied by the info law, resolution or regulation made under cl the chief building official to determine whet contravene any applicable law.	ause 7(1)(b) of the Buil	ding Code Act, 1992 which enable	e X	No
iv) The proposed building, construction or den	nolition will not contrave	ene any applicable law.	Yes X	No
I. Declaration of applicant				
Patrick Leblanc			doc	loro that
(print name)			ueu	clare that:
 The information contained in this app documentation is true to the best of r If the owner is a corporation or partner 	ny knowledge.			er attached
Date April 23, 2019	Signatur	e of applicant		
Personal information contained in this form and sci used in the administration and enforcement of the the Chief Building Official of the municipality or upp duties of a chief building official in relation to sewa this application is made, or, c) Director, Building ar 2E5 (416) 585-6666.	Building Code Act, 1992. (per-tier municipality to which ge systems or plumbing for	Questions about the collection of perso ch this application is being made, or, b or an upper-tier municipality, board of h	onal information m) the inspector ha ealth or conserva	ay be addressed to: a ving the powers and tion authority to whom
Application for a Permit to Construct or Demolish – E	ffective January 1, 2014		OSSO versi	on June 2014

Schedule 1: Designer Information

Project Inform					T		
uilding number, stre	0000 FI2	anktown Road		DVC.	ARECEIVED	Lot/con. Part Lot 19, Con 3	
lunicipality City of C Townshi	ttawa, Geographic p of Goulbourn	Postal code K0A 2Z0	Plan number/ other description ity for design activities APR 2 3 2019			CATIC	
Individual who	reviews and take	es responsibili	ity for design a	tivities	PRESEDE	OTIC APPLICAT	
Patrick Let	blanc		Firm McInto	sh Perry C	consulting Engine	ers 548	
Street address 11	5 Walgreen Road,	R.R. #3			Unit no.	Lot/con.	
Aunicipality Carp Postal code K0A 1L0			Province Onta	nce Ontario E-mail _{p.lebla}		nc@mcintoshperry.com	
Telephone number 613) 714-4586		Fax number (613) 836-	-3742		Cell number (613) 229-	-5863	
C. Design activit	ies undertaken by	individual ide	entified in Section	on B. [Bu	ilding Code Tab	ole 3.5.2.1. of	
House		HVAC	– House	-	Building St	tructural	
Small Buildir			g Services		Plumbing -		
Large Buildir			ion, Lighting and F	ower		- All Buildings	
Complex Bu			otection			wage Systems	
Proposed develop bed for the interim	oment of a Class 4 n facility which will o Designer	leaching bed w consist of a pla	vith a Level IV tre ce of worship.	atment ur	nit, and 'Type A' d	lispersal	
Description of design Proposed develop bed for the interim D. Declaration of Patrick Lebla	oment of a Class 4 n facility which will o Designer	consist of a pla	vith a Level IV tre			lispersal	
Proposed develop bed for the interim D. Declaration of Patrick Lebla I review C, of the Ind	oment of a Class 4 facility which will of Designer anc (print national and take responsibil e Building Code. I an lividual BCIN:	me) ity for the design	ce of worship.	d	eclare that (choose	e one as appropriate):	
Proposed develop bed for the interim D. Declaration of Patrick Lebla I review C, of th Ind Firm I review under s	oment of a Class 4 a facility which will Designer anc (print national second	me) ity for the design n qualified, and the ity for the design	ce of worship.	d firm regis	eclare that (choose stered under subse propriate classes/c	e one as appropriate): ection 3.2.4.of Division categories.	
Proposed develop bed for the interim D. Declaration of Patrick Lebla I review C, of th Ind Fin I review under s Ind	oment of a Class 4 facility which will of Designer anc (print national and take responsibile Building Code. I and ividual BCIN: m BCIN: and take responsibile ubsection 3.2.5.0f Display	me) ity for the design n qualified, and th vision C, of the E	ce of worship.	d firm regis	eclare that (choose stered under subse propriate classes/c	e one as appropriate): ection 3.2.4.of Division categories.	
Proposed develop bed for the interim D. Declaration of Patrick Lebla I review C, of the Ind Firm I review under s Ind Ba The des Bas	oment of a Class 4 facility which will of Designer anc (print national and take responsibile Building Code. I and ividual BCIN: m BCIN: and take responsibil ubsection 3.2.5.of Di- ividual BCIN:	ity for the design me) ity for the design vision C, of the E m registration: rom the registrati	ce of worship.	d firm regis d, in the ap in the appro	eclare that (choose stered under subse propriate classes/c	e one as appropriate): ection 3.2.4.of Division categories.	
Proposed develop bed for the interim D. Declaration of Patrick Lebla I review C, of the Ind Find I review under s Ind Bas The des Bas certify that:	oment of a Class 4 a facility which will of Designer anc (print national and take responsibilies and take responsibilies ividual BCIN: and take responsibilies ubsection 3.2.5.of Di- lividual BCIN: and take responsibilies ividual BCIN: and take responsibilies and take responsibili	me) ity for the design n qualified, and th vision C, of the E m registration: rom the registration and	ce of worship.	a firm regis d, in the ap in the appro	eclare that (choose stered under subse propriate classes/c opriate category as ents of the Building e #100141438)	e one as appropriate): ection 3.2.4.of Division categories.	
Proposed develop bed for the interim D. Declaration of Patrick Lebla I review C, of the Ind Find I review under s Ind Base Certify that: 1. The information I review I revie	oment of a Class 4 n facility which will of Designer anc (print national and take responsibile e Building Code. I and ividual BCIN: m BCIN: and take responsibil ubsection 3.2.5.of Di ividual BCIN: sis for exemption from sign work is exempt f	me) ity for the design n qualified, and th vision C, of the E m registration: rom the registration n registration and schedule is true	ce of worship.	d a firm regis d, in the ap in the appro- n requirem ng. (Licenc knowledge	eclare that (choose stered under subse propriate classes/c opriate category as ents of the Building e #100141438)	e one as appropriate): ection 3.2.4.of Division categories.	

1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) (c).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.

 Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

Application for a Permit to Construct or Demolish - Effective January 1, 2014

.

OSSO version June 2014

Schedule 2: Sewage System Installer Information

A. Project Information			FCEI	ED
Building number street name	Erophtown Door		V Onit number	Let/con.APPLICATION
	3 Franktown Road			Part Lot 19, Con 3
Municipality Ottawa, Geographic Town ship of Goulbourn	Postal code K0A 2Z0	Plan number/ other des	cription PR 2 3 LU	8-540
B. Sewage system installer				DUIDED FOR A
Is the installer of the sewage system en emptying sewage systems, in accordan	ce with Building Co	de Article 3.3.1.1, Division	C?	INCOM
Yes (Continue to Section C)	No	(Continue to Section E)	5.02 (1997) (1997) (1997) (1997)	unknown at time of ion (Continue to Section E)
C. Registered installer informat	ion (where answ	er to B is "Yes")		
Name			BCIN	
Street address			Unit number	Lot/con.
Municipality	Postal code	Province	E-mail	
Telephone number	Fax		Cell number	
D. Qualified supervisor informa	tion (where answ	ver to section B is "Ye	(/ (")	
E. Declaration of Applicant:				
Patrick Leblanc				declare that:
(print name)				uoolaro inat.
I am the applicant for the per shall submit a new Schedule	mit to construct the 2 prior to constructi	sewage system. If the ins on when the installer is kn	taller is unknown at t own;	time of application, I
OR I am the holder of the permit is known.	to construct the sev	vage system, and am subr	nitting a new Schedu	ule 2, now that the installer
I certify that:				
1. The information contained in t	his schedule is true	to the best of my knowled	lge.	
2. If the owner is a corporation o	r partnership, I have	e the authority to bind the	corporation or partne	ership.
Date April 23, 2019			1	

Application for a Permit to Construct or Demolish – Effective January 1, 2014

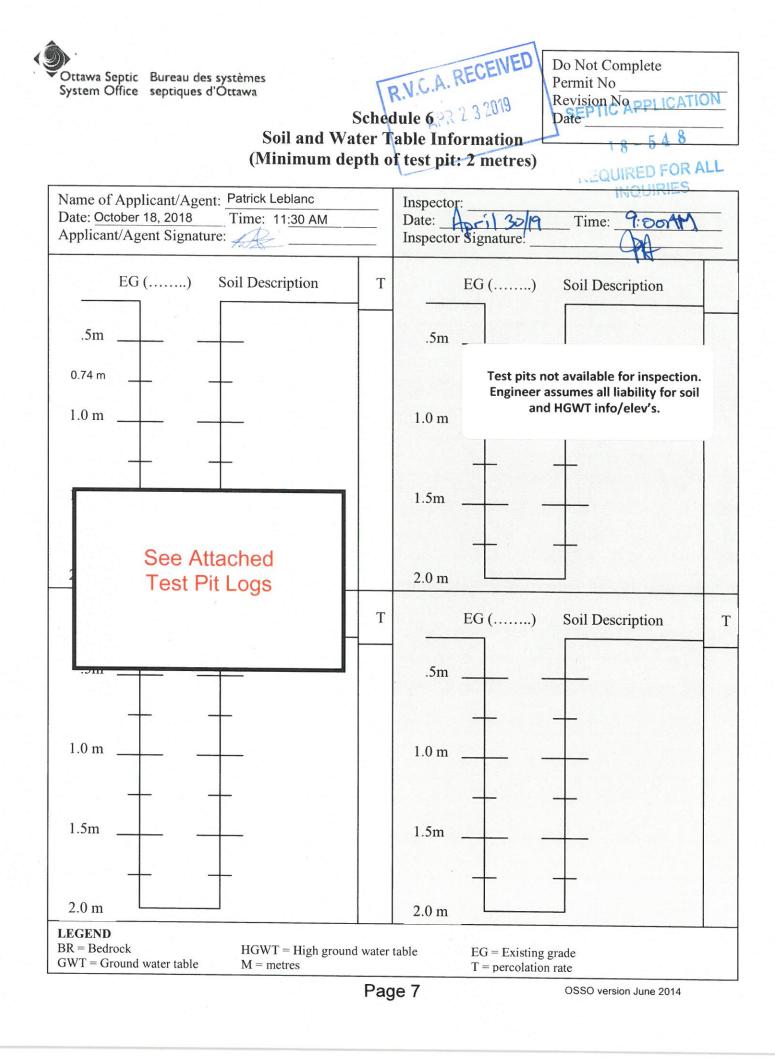
OSSO version June 2014

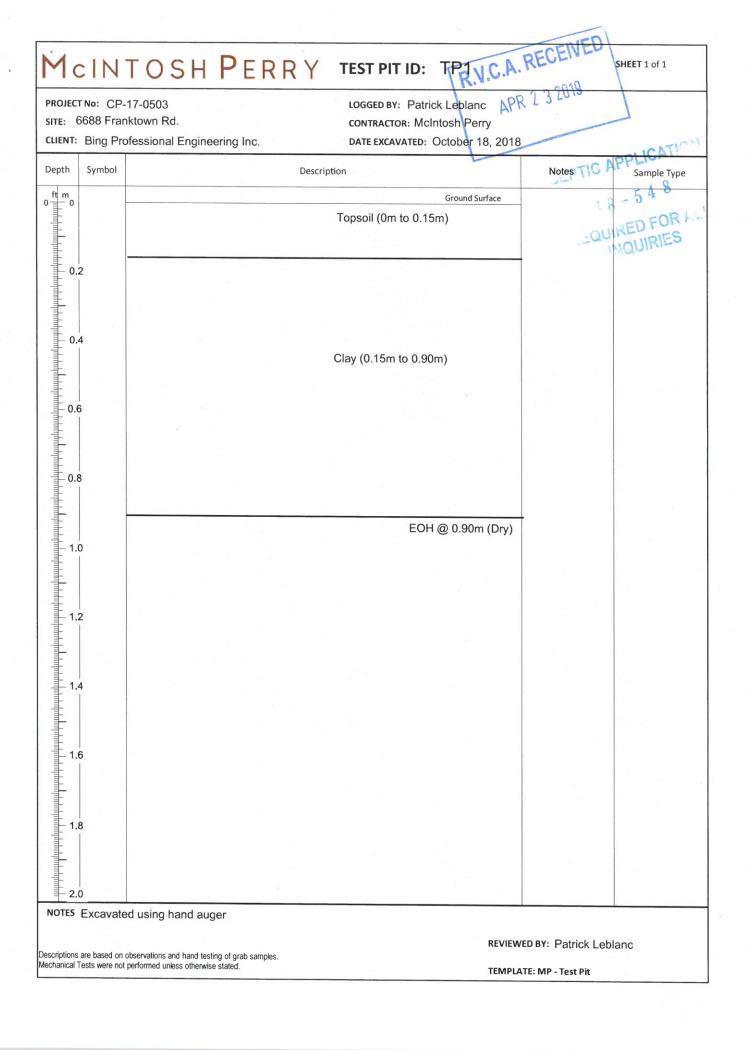
Ottawa Septic System Office Bureau des systèmes septiques d'Ottawa Schedu Proposed Complete Section	Services ions 1 thru 7
1. Engineered X Yes No	2. Water supply X Proposed Existing Existing
 3. Type of work proposed New Installation Replacement Alteration 	 4. Type of Well Dug/bored/Sandpoint well X Drilled well Municipal Other
Total Fixture Units (Schedule 8)	 6. Sewage Design Flow <u>Other Occupancies</u> Design Flow 9,999 L/day Detailed sewage flow calculations: Assembly Hall, Kitchen Facilities Provided: 36L/day/seat or person Assume Max Accupancy in one day is 277 People Flow (Q) = (36L/day/Person) *(277 People) = 9,972 L/day
 7. Type of System X Treatment Unit Waterloo Biofilter Baskets Class 2 – Leaching Pit Class 3 – Cesspool Class 4 – Shallow Buried Trench Class 4 – Trench (schedule 9) Fully raised Partially raised In-ground Class 4 – Filter Media (schedule 10) Fully raised Partially raised In-ground 	 ☐ Class 4 – BMEC Area Bed (Schedule 11) ☐ Fully raised ☐ Partially raised ☐ In-ground ⊠ Class 4 – "Type A" Dispersal (Schedule 13) ⊠ Fully raised ☐ Partially raised ☐ In-ground ☐ Class 4 – "Type B" Dispersal (Schedule 14) ☐ Fully raised ☐ Partially raised ☐ Partially raised ☐ In-ground
	OSSO Version June 2014

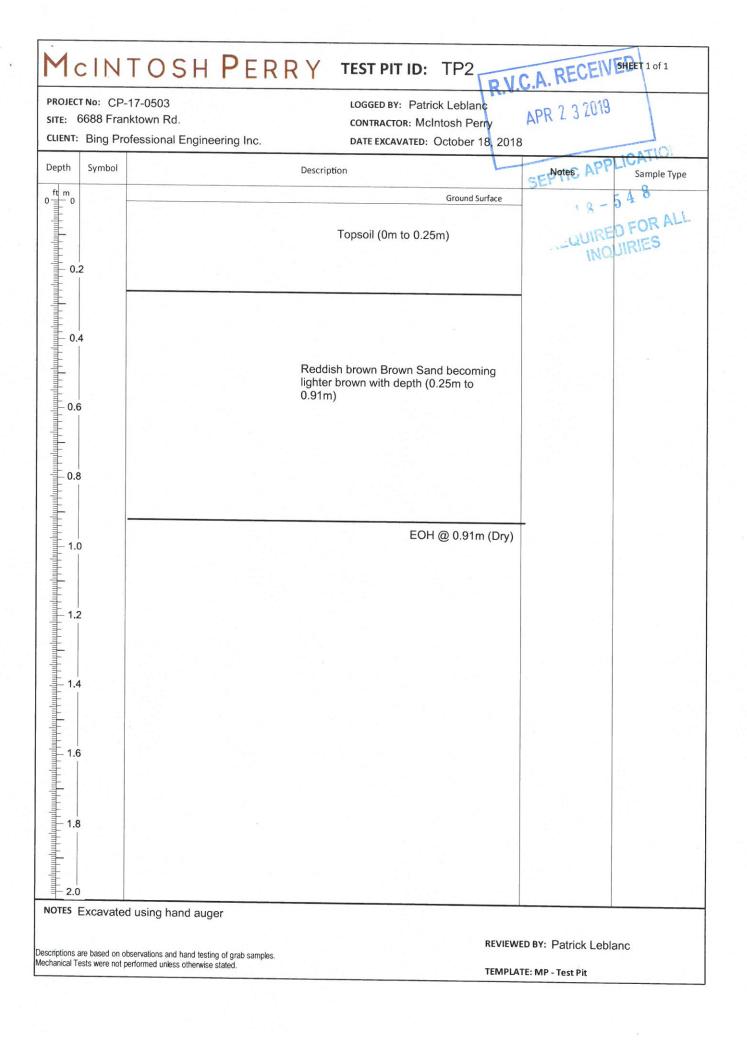
Page 5

a Septic Bureau des systèmes n Office septiques d'Ottawa		LYP	RECEIVE	Revision No	548
	Sched	ule 5		Date	I DED FO
	Sewage Sys	tem De	tails	n=	NOURE
Type of System Class 4 Fully Rais	ed Type A Disper	sal Bed	System	(Sch	edule 4)
Septic/Holding Tank Size: 19,998	(min) Litres	ľ	Make: Mac	Gregor Concrete P	roducts
Septic Tank Effluent Filter Make	Polylok PL-625 or E	quivalent N	Aodel: MAC	-23000-1P	
Treatment Unit – Make & Model	Waterloo Biof	ilter (2x	Biofilter Me	edium Filled Bas	skets)
Number of Unit	s: 1		Other:		
Refer to Typical Drawing #		ī	Pump(s)	equired yes	
Mantle Information:		_	Pump Rat	te as per Waterle	00
Native or imported=15m in _	S-E direction	n(s)	Note:	Alarm required f	or all
			pump	ing systems	
Slope subgrade N/A	% s	lope			
	dire	ection(s)			
Site to be Scarified (If clay)	YES /(NO)				
Clay Seal Required (If bedrock)	YES / NO				
Trench					
Distribution Pipe Length	m		Shallow Bu	iried Trench	
Loading Area	m ²		Pipe Length	1	m
Type of Chamber					
Length of Chamber	m		Filter Med	ia Bed	
BMEC Area Bed			Stone		m ²
🛛 Туре А			Extended B	lase	m²
🗅 Туре В			Pipe		m
Stone	m²		Weight of I	Filter Media	Kg
Sand	m ²		Loading Ar	.ea	m ²
Pipe	m				
Linear Loading	L/m^2				
 Tank/Treatment Unit/Pumj Effluent Filter & Riser ON 		olaceme	nt ONLY		
Construction Notes: All tanks, piping and connec	ctions below o	original	grade sha	II be sealed to	prevent
An tarika, piping and conner					HIVIN IN THE

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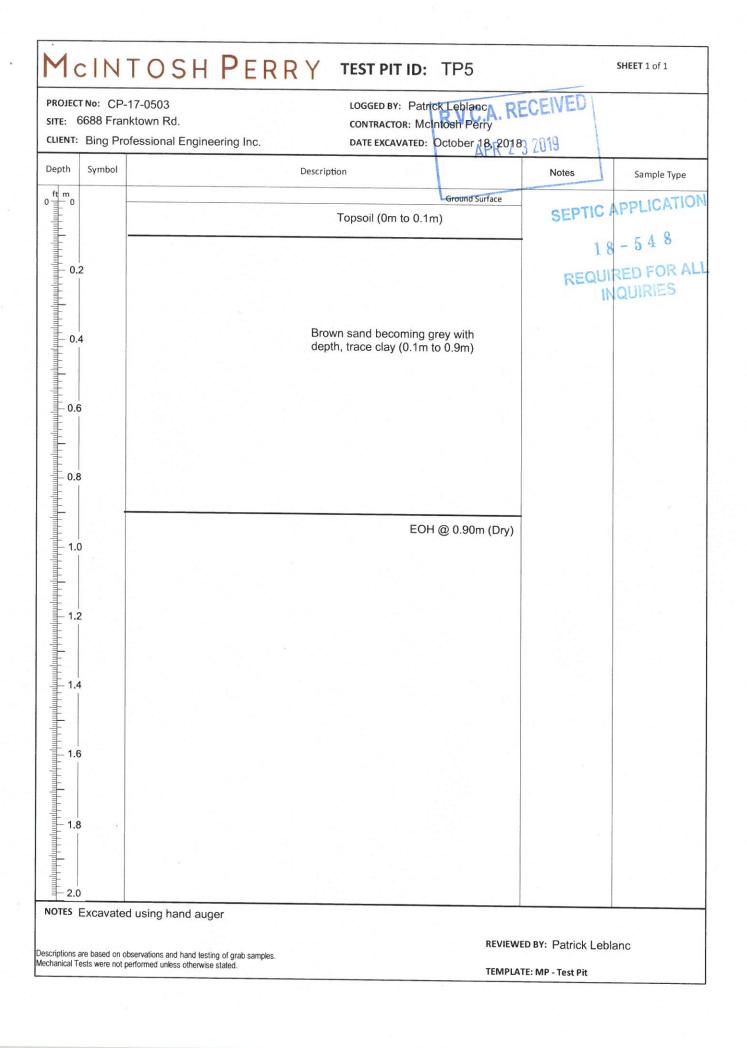




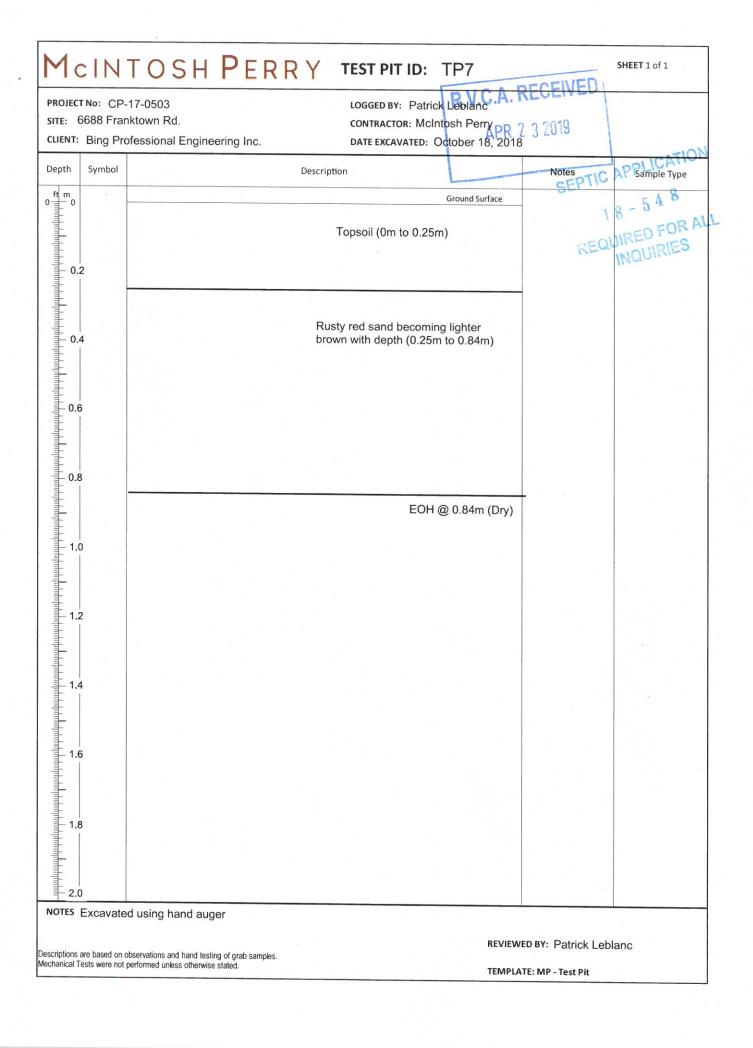


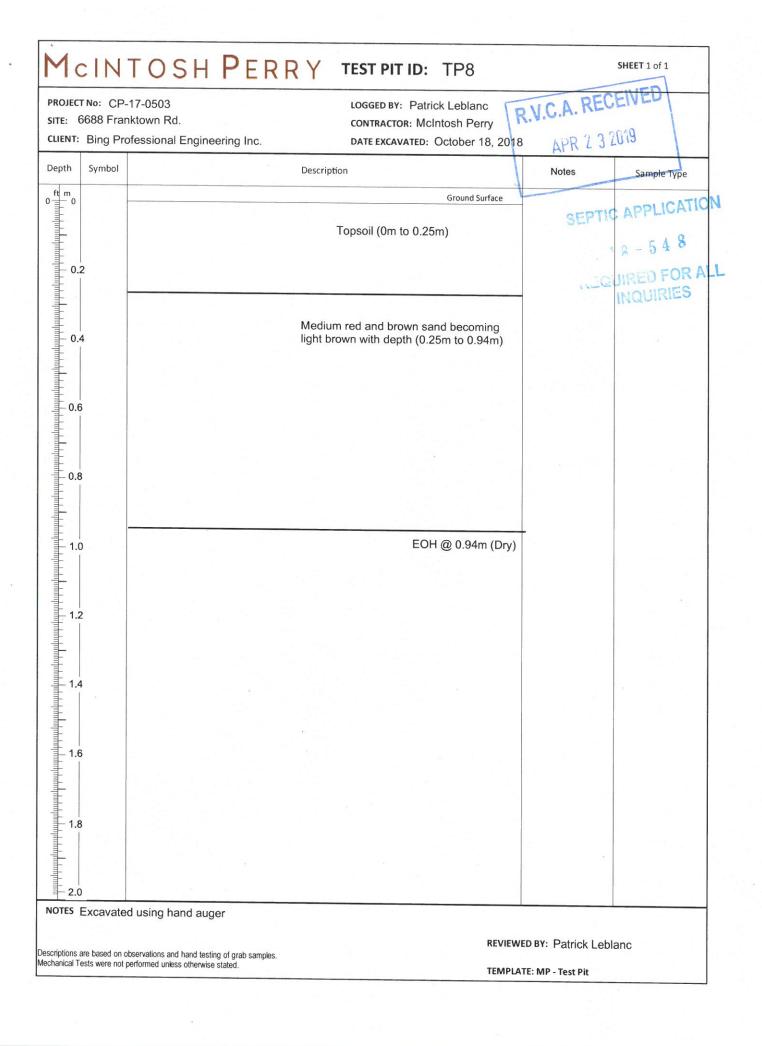
re: 66	No: CP-17-0503 688 Franktown Rd. Bing Professional Engineering In	LOGGED BY: F CONTRACTOR: C. DATE EXCAVAT	Patrick Leblanc V.C.A McIntosh Perry ED: October 18, 2018	R 2 3 2019	
pth	Symbol	Description			Sample Type
m 0		Topsoil (0m to	Ground Surface 0.1m)	SEPTIC A	Sample Type PPLICATIO - 5 4 8 RED FOR A IQUIRIES
0.2		Medium Brown Sar	nd (0.1m to 0.30m)	REQUI	RED FOR A LQUIRIES
0.4					
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.4 1.6		Clayey Sand to San content increasing v to 0.90m)	dy Clay, with clay ⁄ith depth (0.3m		
- 1.0			EOH @ 0.90m (Dry)		
- 1.2					
- 1.4					
- 1.6					
- 1.8					
	xcavated using hand auger				
otions are	e based on observations and hand testing of grabic	amples	REVIEWED	BY: Patrick Lebl	anc
nical Tes	its were not performed unless otherwise stated.		MPLATE: MP - Test Pit		

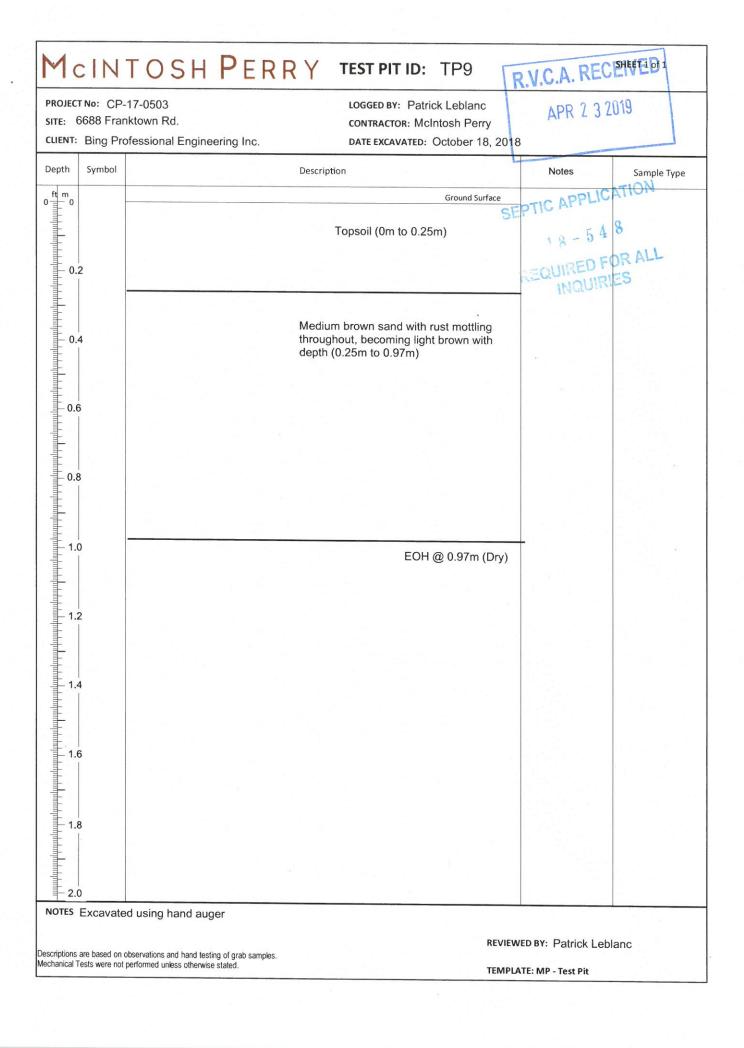
OJECT No: CP-17 TE: 6688 Frankt IENT: Bing Profe		contriacit	: Patrick Leplanc C.A. DR: McIntosh Perry VATED: October 18, 2018	2 3 2019	
pth Symbol		Description		Notes	Sample Type
0.2 0.2 0.4 0.6 0.8 1.0 1.0 1.2 1.2 1.4 1.4 1.4 1.4 1.6		Topsoil (0m	Ground Surface to 0.1m)	Notes SEPTIC APP	4 8 D FOR ALL NRIES
0.2				REQUIRE	NRIES
0.4		Clayey Sand to S content increasin to 0.90m)	andy Clay, with clay g with depth (0.1m		
- 0.6					
-0.8					
- 1.0			EOH @ 0.90m (Dry)		
- 1.2					
- 1.4					
- 1.6					
- 1.8					
	using hand auger				
			REVIEW	ED BY: Patrick Leh	lanc
ptions are based on obse	rvations and hand testing of grab sample	20	REVIEW	ED BY: Patrick Leb	lanc

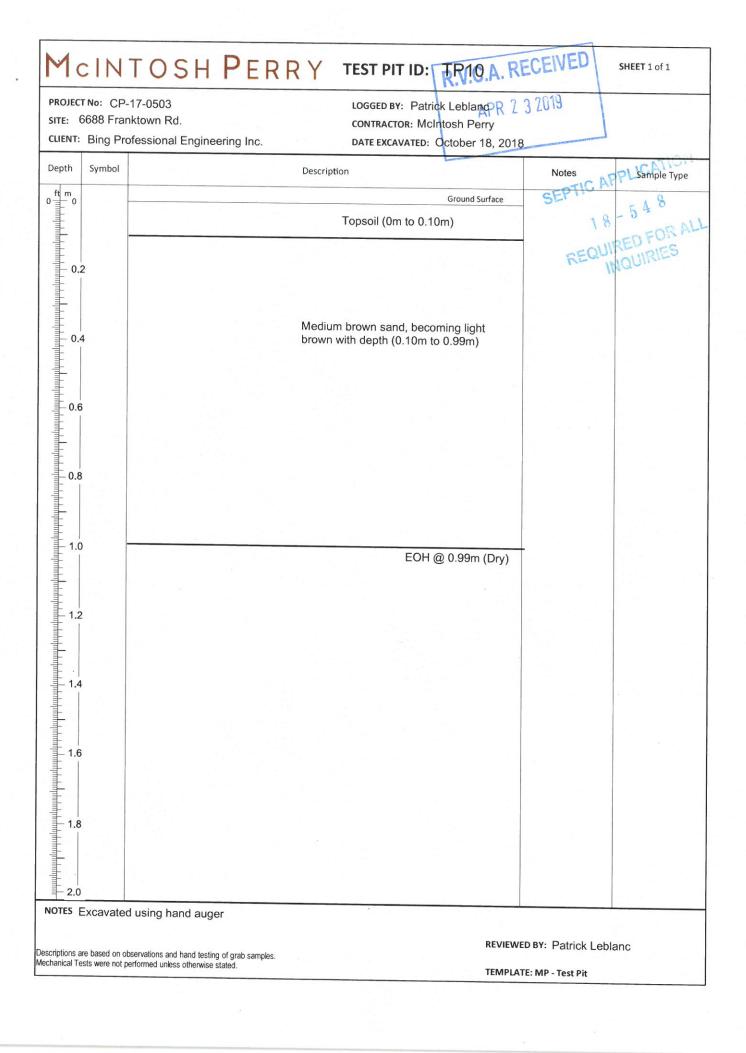


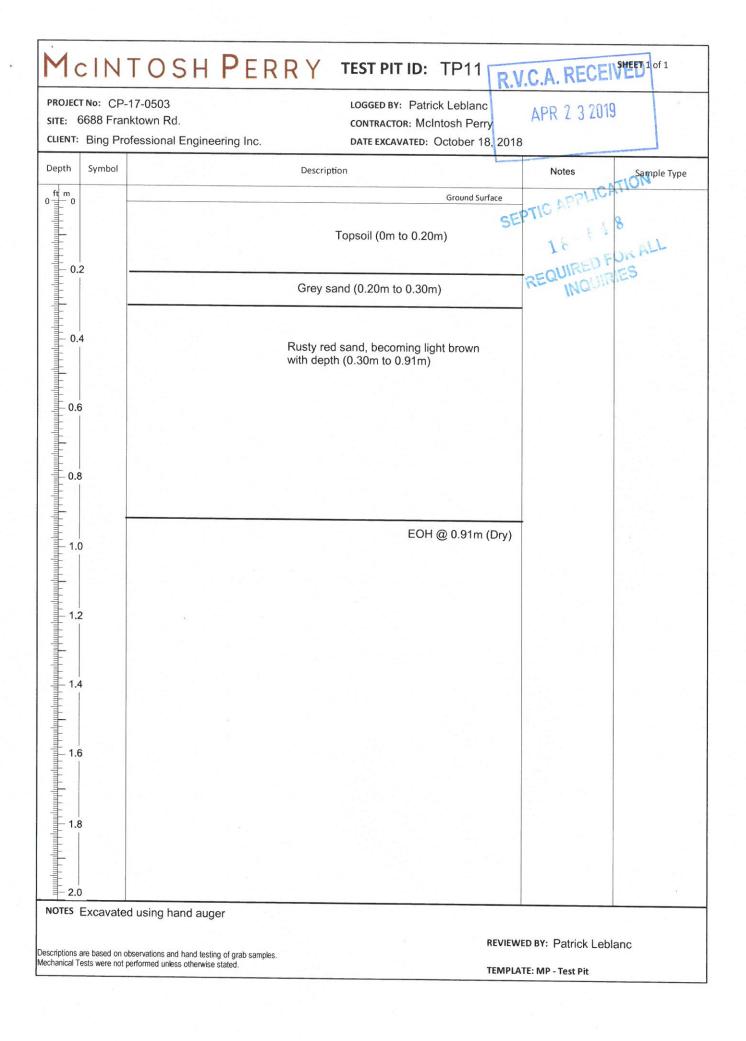
ENT: Bing Professional Engineer	CONTRACTOR: McIntosh Perry 3 2 ing Inc. DATE EXCAVATED: October 18, 201	019 8
oth Symbol	Description	Notes SEPTIC APPLSample Type
	Ground Surface Topsoil (0m to 0.15m) Medium brown sand (0.15m to 0.9m)	Rust mottling visible in upper sand layer
mo 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.4 1.4 1.4 1.4 1.8 2.0	EOH @ 0.90m (Dry)	
- 1.2 - 1.4		
- 1.6 - 1.8		
2.0		
TES Excavated using hand auge	ſ	
ptions are based on observations and hand testing anical Tests were not performed unless otherwise st	of grab samples.	WED BY: Patrick Leblanc

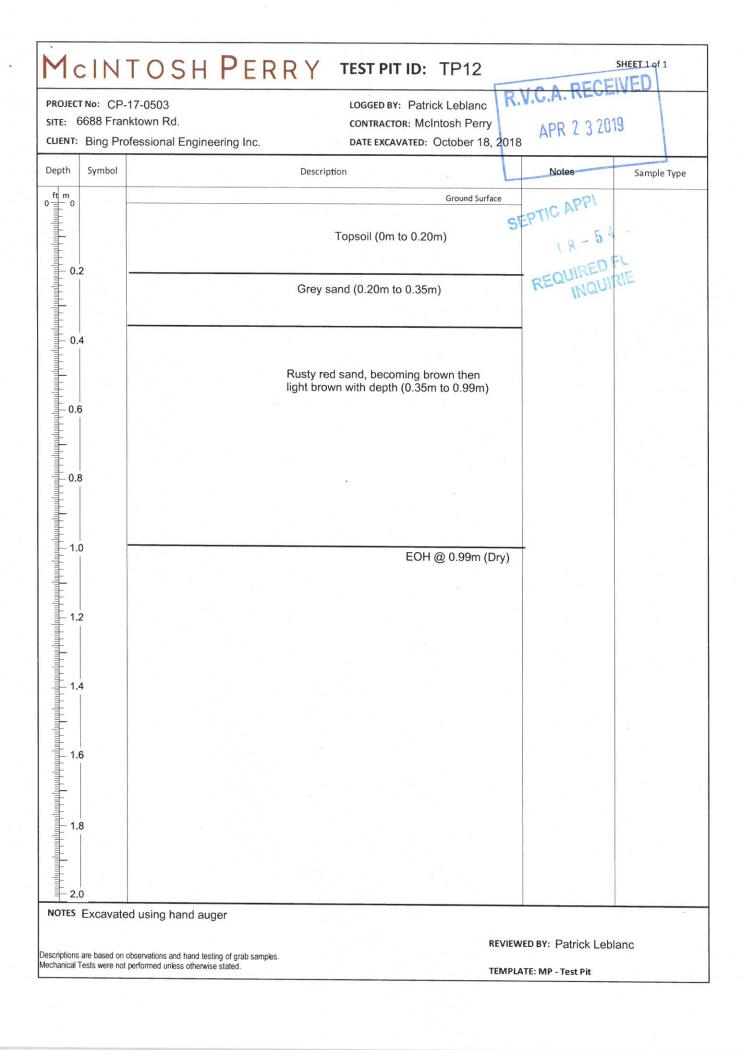


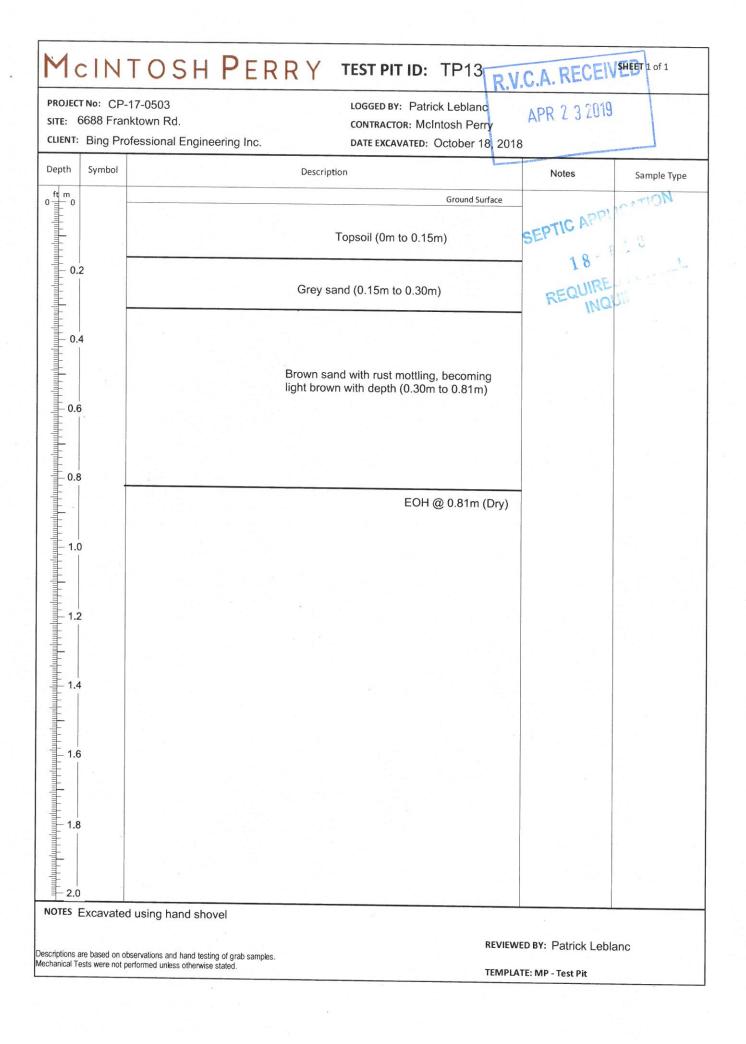


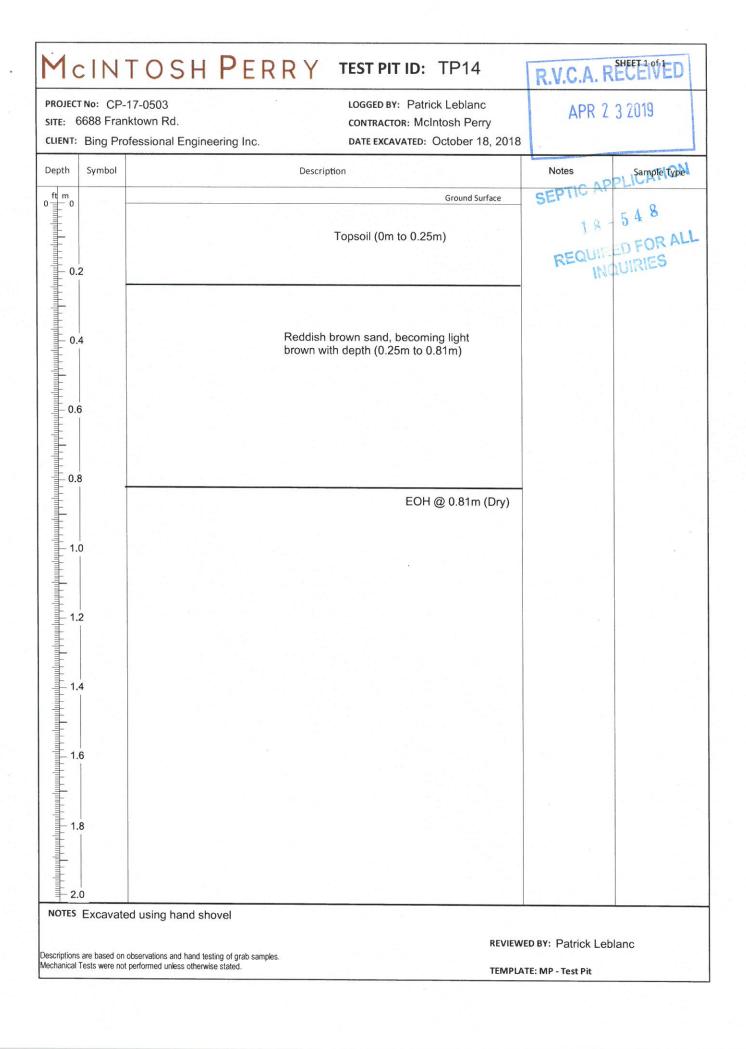


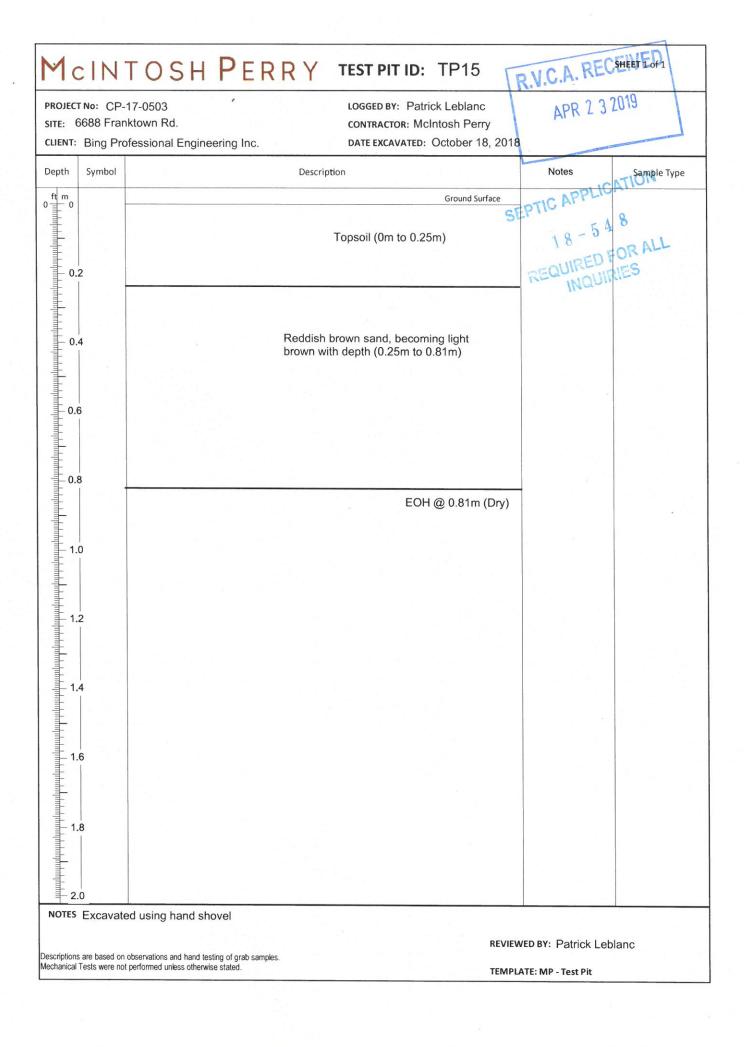


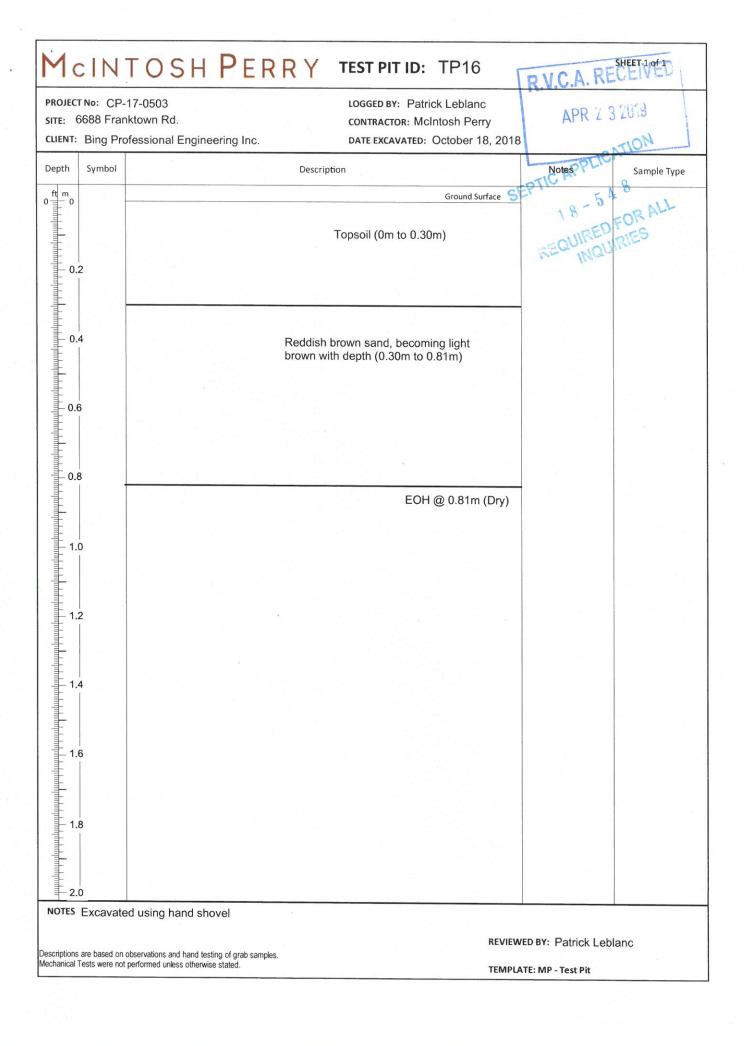








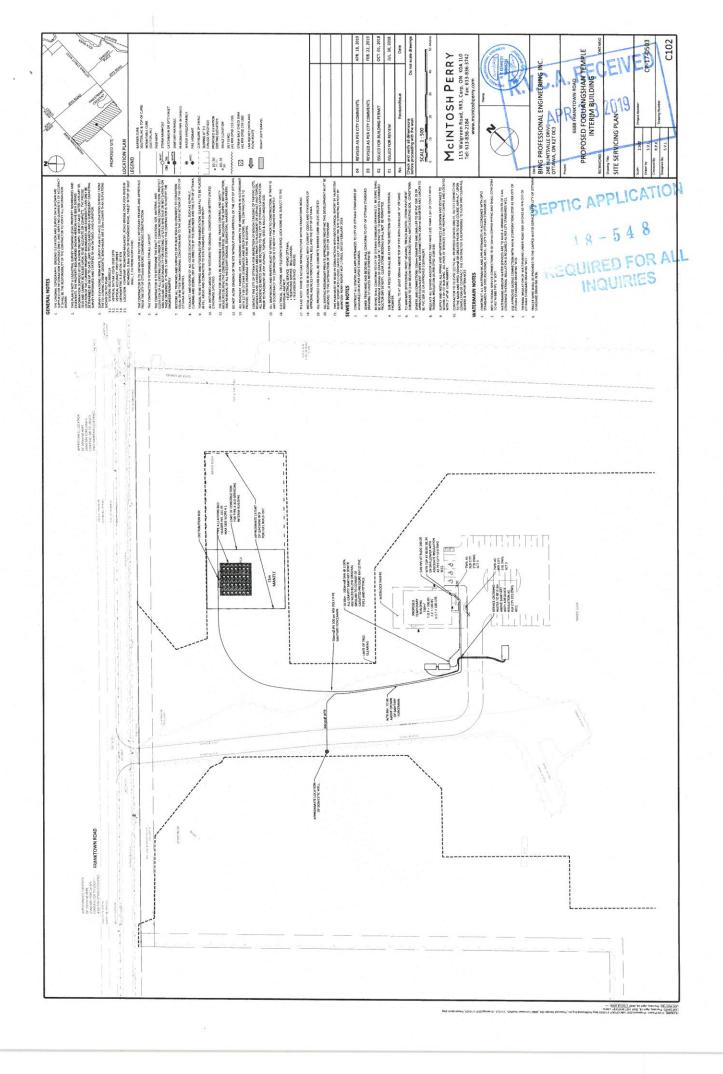




Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa				ies a	Schedule 7 ^{PR 2} 3203			Do Not Complete Permit No Revision No Date SLPTIC APPLICATION							
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									,			0 (10			

Page 8

OSSO version June 2014



Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa	Schedu	R.V.C.A. RECEIVED Schedule 8 Fixture unit count			Do Not Complete Permit No Revision No Date SEPTIC APPLICATION			
Fixtures	# Existing	g + #	Proposed	X	unit count	- 5	Fixture Count	
Bathroom					REQUI	EL	RIES	
Bathroom group (toilet, sink and tub or shower) with flush tank		+		x	6	ου =	11.0-	
Bathtub with/without overhead shower		+		X	1.5	=		
Shower stall		+		Х	1.5	=		
Wash basin (1½inch trap)		+		x	1.5	=		
Watercloset (toile								
Bidet N/A (See S	ch	nedule	<u></u> 2	1)			
Kitchen					.,			
Dishwasher		1	t in the second s					
Sink with/without garbage grinder(s), domestic and other small type single double or 2 single with a common the		+		x	1.5	=		
Other	X							
Domestic washing machine		+		X	1.5	=		
Combination sink and laundry tray single or double (Installed on 1 ¹ / ₂ tra	n)	+		x	1.5	=		

*Insert the TOTAL in section 5 of Schedule 4 (0.Reg 151/13 Table 7.4.9.3)

*Total:

- 1. Sump pumps and floor drains are not to be connected to the sewage system. Connection of such fixtures to a sewage system may lead to a hydraulic failure of the said system. The above mentioned fixtures should be discharged separately to an approved Class 2 (leaching pit) sewage system.
- 2. Where laundry waste is not more than 20% of the total daily design sanitary sewage flow, it may discharge to a sewage system (Part 8, OBC, 8.1.3.1(2)).

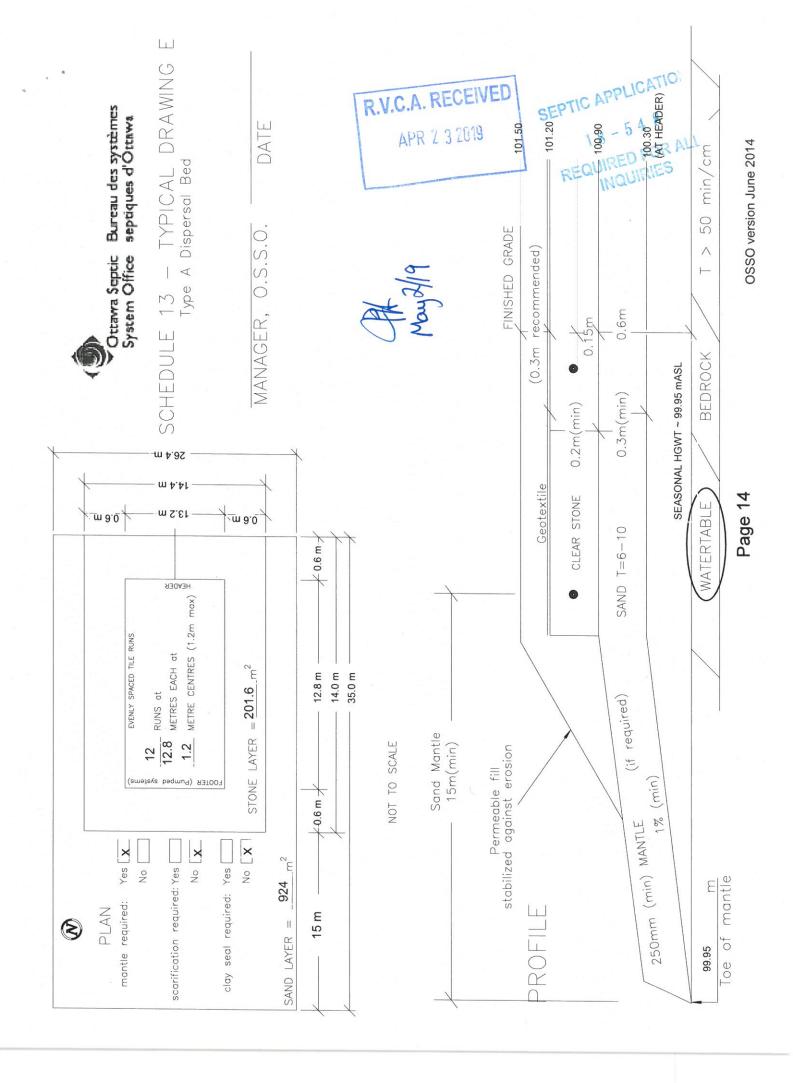
Agent/Owner signature

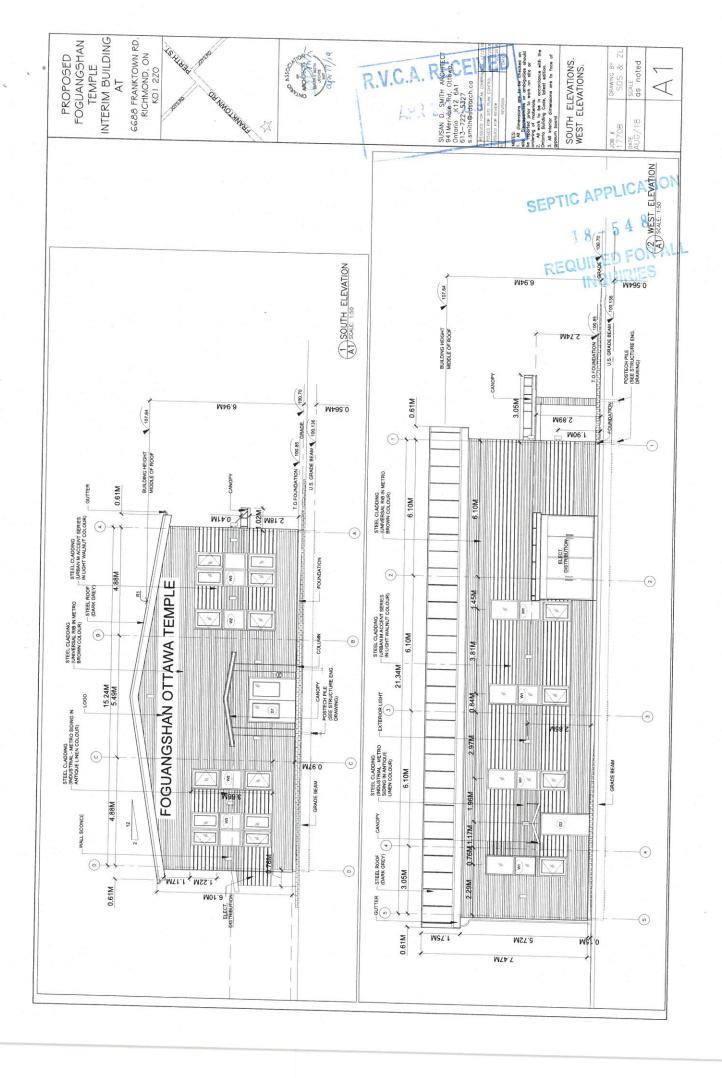
April 23, 2019

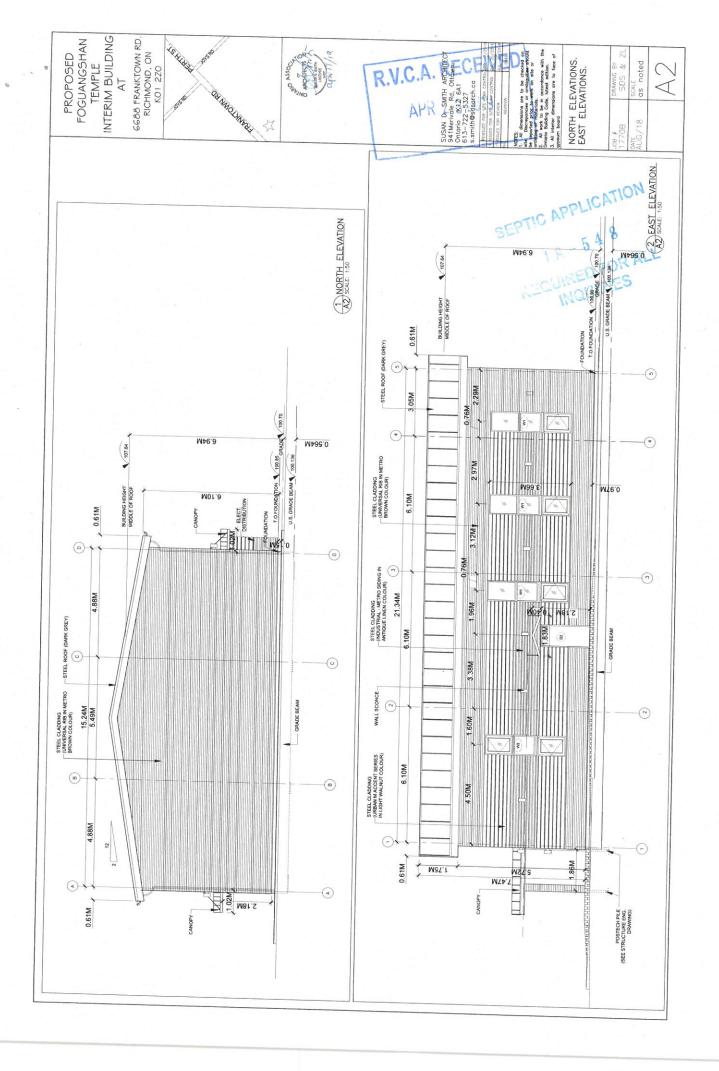
Date

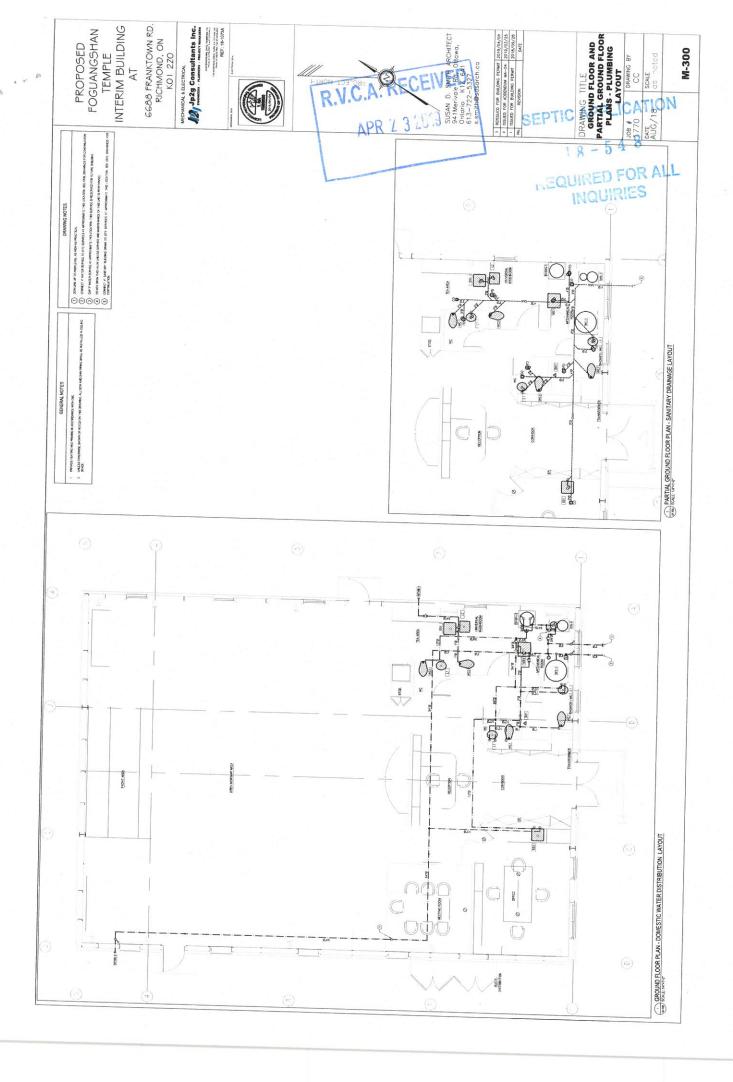
OSSO version June 2014

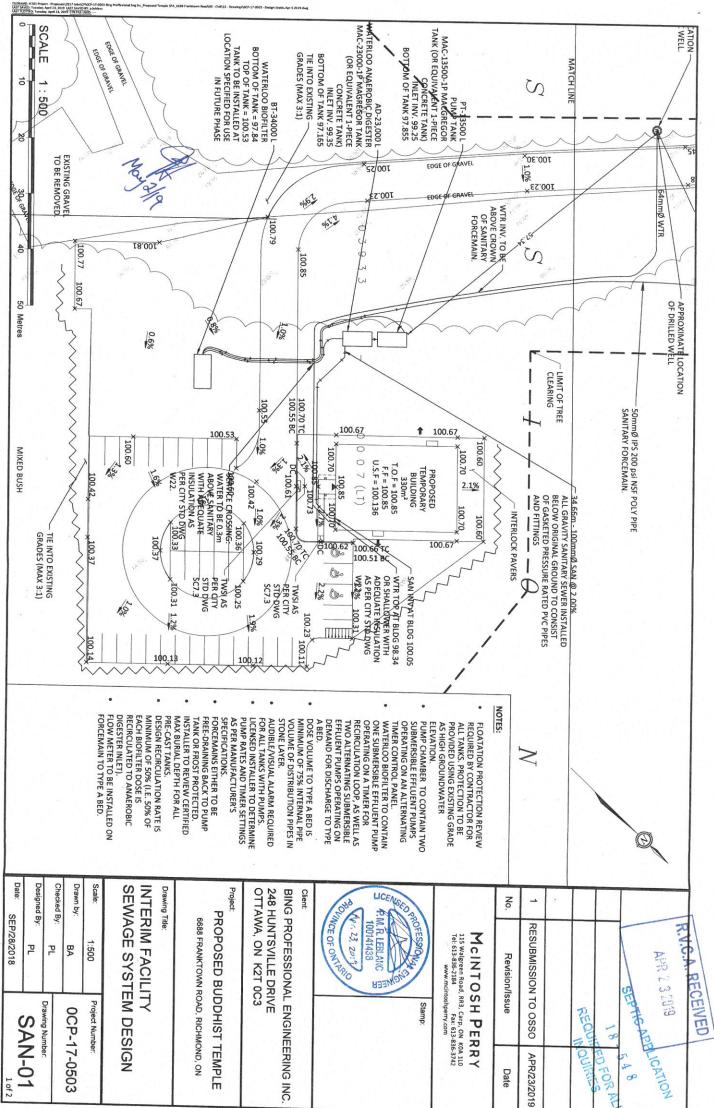
Page 9

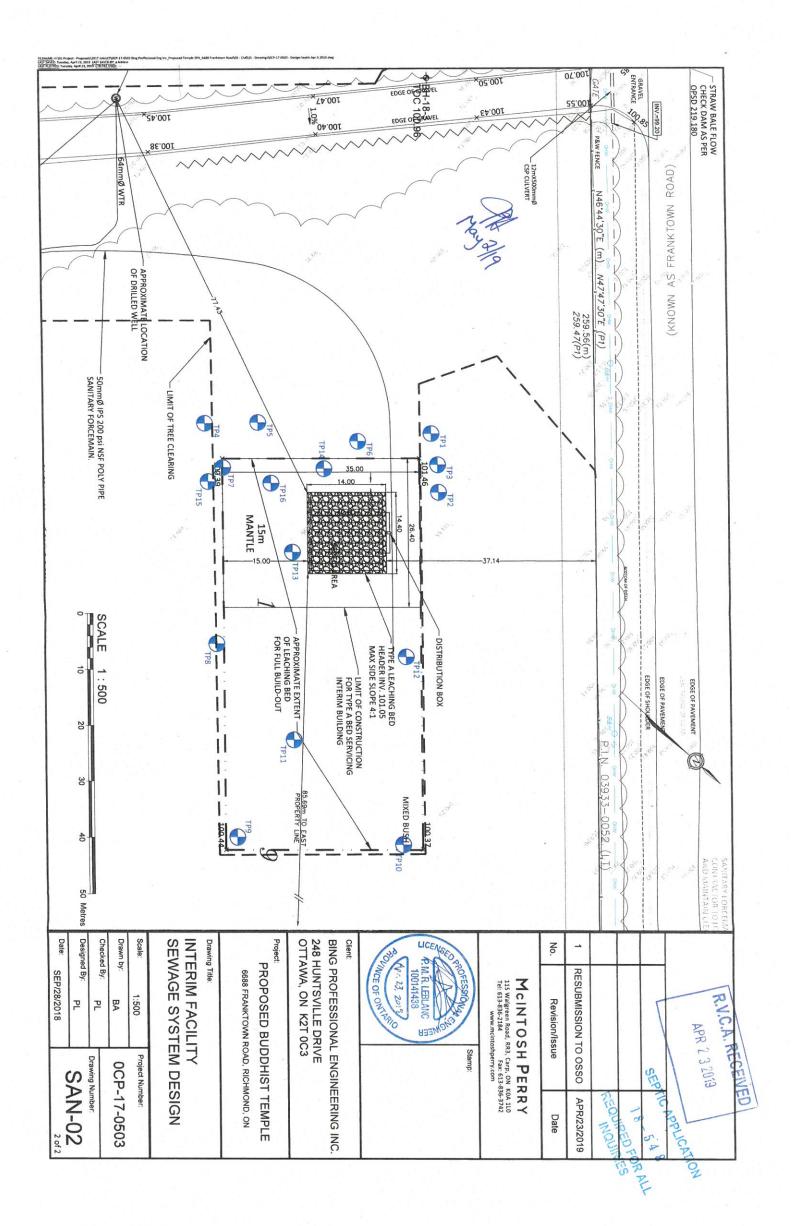












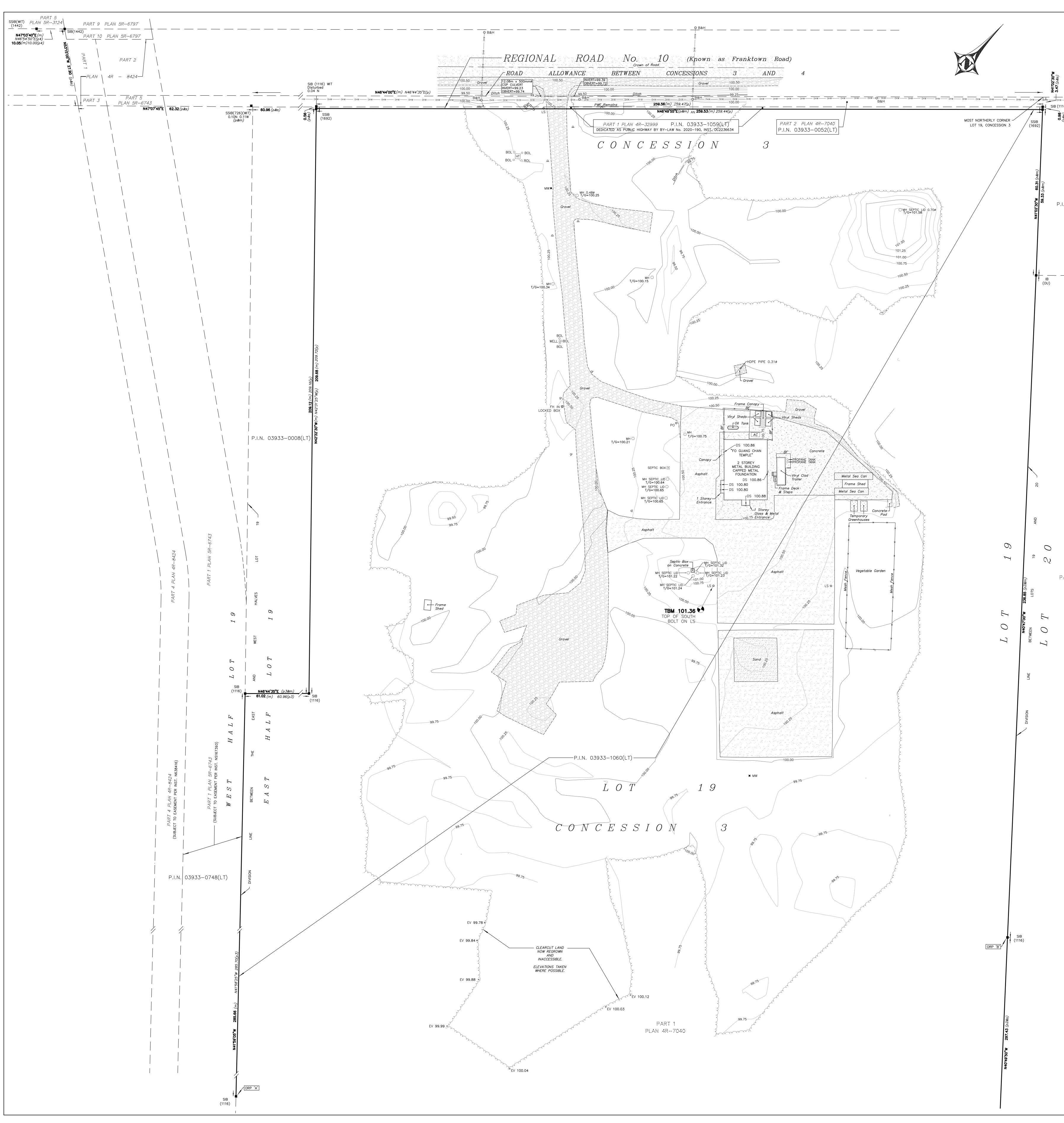
Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa Part 8 – Sewage Ontario Buildin	e System	ted Applitation INQUIRTE
A copy of this permit must be posted on the property at all time during this permit verifies that the on-site sewage system was reviewed and approved fo D.Reg. 323/12 as amended by O.Reg. 151/13.		The second
spected & Recommended by: <u>J. Hutton</u> spection Date & Time: <u>April 30/19 (9:00AM)</u> vic Address: <u>6688 Fronktown Bd</u> -		
mber of bedrooms:		day
ptic/holding tank/pretreatment tank $AD - 23000$ L fluent filter	weigh bills for filter media grain size analysis required site to be scarified clay seal inspection mantle required sub-grade inspection	□ yes 22 no □ yes 22 no 12 yes □ no 12 yes 12 no
EVATION IN Ground IP Partially Raised IFully Raise (PE OF SYSTEM ITrench Pipe and Stone or O Chambers	d Shallow Burled Trench	
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stone 201.6 m ² sand 924 m ² pipe $12 runs of 12.8 m/s - 2 m/g c$ linear loading $1/m^2$		kg m ²
Manager, Septic System Approvals: Comments: D Toc of monthe shall outlet Comments: D	engineer to verify	ce-draining soft
Manager, Septic System Approvals:		4

NOTE: For further details, refer to corresponding application.

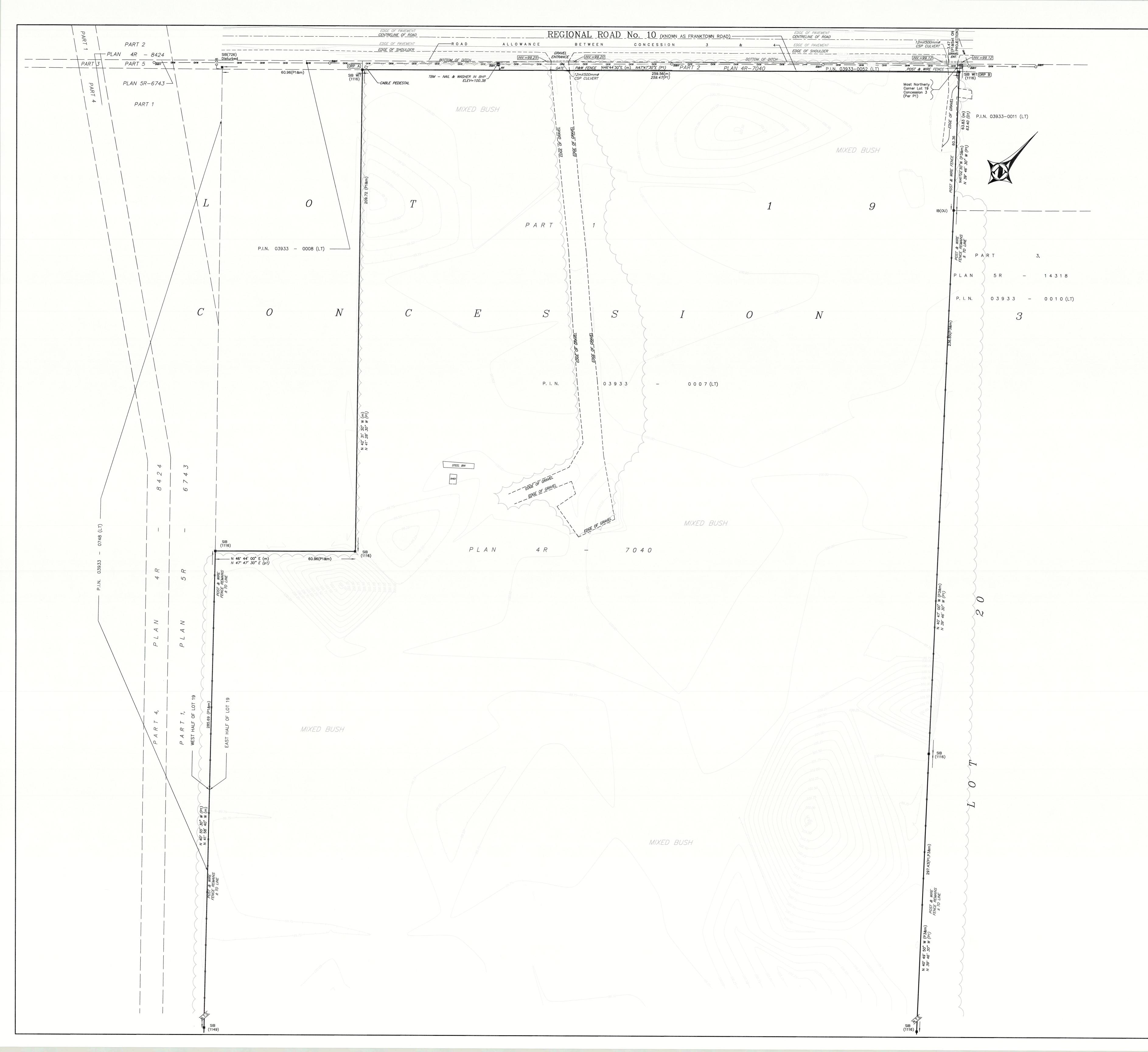
EXP Services Inc. IBPS Temple 6688 Franktown Road, Ottawa, ON OTT-22027645-A0 June 6, 2025

Appendix F – Drawings





		PLAN OF SURVEY WITH TOPOGRAPHY OF PART OF LOT 19 CONCESSION 3	
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MCINTOSH PERRY			
· · · · · ·			
		SURVEYING INC. 3240 Drummond Con. 5A, R.R. #7 Perth, ON K7H 3C9 Tel: 613-267-6524 Fax: 613-267-7992 www.mcintoshperry.com	



TOPOGRAPHIC PLAN OF SURVEY OF PART OF LOT 19, CONCESSION 3 GEOGRAPHIC TOWNSHIP OF GOULBOURN CITY OF OTTAWA

SCALE		1 :	50	00			
0	10		20	30	40	50	Metres
McINTC	SH	PER	RY	SURVEYING	INC.		

METRIC : DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

SURVEYOR'S CERTIFICATE

- 1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
- 2. THE SURVEY WAS COMPLETED ON THE 9th DAY OF JANUARY, 2018.

DATE SIMON KASPRZAK ONTARIO LAND SURVEYOR

LEGEND AND NOTES DENOTES MONUMENT PLANTED " MONUMENT FOUND ** SIB STANDARD IRON BAR 99 SSIB SHORT STANDARD IRON BAR ** IRON BAR >> ROCK PLUG ROUND IRON BAR RIB ** BENCHMARK BM WITNESS WIT 59 MEASURED 22 PLAN 4R-7040 (P1) ** PLAN 5R-6743 (P2) ** PLAN 5R-14318 (P3) 59 (P4) PLAN 4R-8424 59 INSTRUMENT N733204 (D1) (726) WILLIAM D. RATZ, O.L.S. (1116) ** WILLIAM J. JOHNSTON, O.L.S. (1442) ** JOHN H. KENNEDY, O.L.S. BP ** BELL POLE BHP BELL & HYDRO POLE HP ** HYDRO POLE N.T.S. NOT TO SCALE ** ** TBM TEMPORARY BENCHMARK PWF ** POST & WIRE FENCE ~~~ " MIXED BUSH ----- OHW ----- * OVER HEAD WIRES - x - " FENCE (TYPE NOTED ON PLAN)

TEMPORARY SITE BENCHMARK - NAIL & WASHER IN FACE OF BELL & HYDRO POLE, HAVING A GEODETIC ELEVATION OF 100.38

THE LOCATION AND CONFIGURATION OF UNDERGROUND SERVICES AND UTILITIES HAVE BEEN DERIVED FROM LIMITED FIELD INFO AND CANNOT BE GUARANTEED TO BE COMPLETE OR ACCURATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONFIGURATION AND LOCATION OF UNDERGROUND SERVICES AT THE SITE PRIOR TO CONSTRUCTION.

ELEVATIONS ARE CANADA GEODETIC VERTICAL DATUM 1928:1978 DERIVED FROM REAL TIME NETWORK GPS OBSERVATIONS WITH GEOID CORRECTION APPLIED.

BEARINGS ARE MTM GRID BEARINGS, DERIVED BY REAL TIME NETWORK GPS OBSERVATIONS ON OBSERVED REFERENCE POINTS A AND B, SHOWN HEREON, AND ARE REFERRED TO THE CENTRAL MERIDIAN OF MTM ZONE 9, (75'30" WEST LONGITUDE) NAD83 (ORIGINAL) 2010. DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES AND CAN BE

CONVERTED TO GRID DISTANCES BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 0.99992.

OBSERVED REFERENCE POINTS (ORPS) DERIVED FROM GPS OBSERVATIONS USING REAL TIME NETWORK (RTN) SERVICE. MTM ZONE 9, NAD83 (ORGINAL) (2010)								
COORDINATES TO RURA	AL ACCURACY PER SEC. 14	(2) OF O.REG. 216/10						
POINT ID	POINT ID NORTHING EASTING							
ORP A	5004307.4	354659.4						
ORP B	ORP B 5004485.2 354848.4							
COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.								

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JOB No. 17-4410 DRAWING #17-4410-01



 EXAMINED:
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