

# 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

Prepared By: Aaditya Jariwala, M.Eng, P.Eng.

EXP Services Inc. 100-2650 Queensview Drive Ottawa, ON K2B 8H6

**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** 

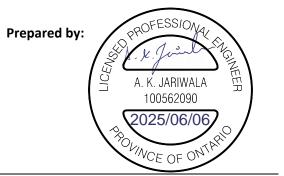
Project Name: IBPS Temple

## **Project Number:**

OTT-22027645-A0

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### **Date Submitted:**

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

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## **Table of Contents**

1	Intro	oduction	. 1
2	Exis	sting Conditions	. 1
3		erences	
4		Consultation / Permits / Approvals	
5		ermain Design	
	5.1	Existing Water Servicing	
	5.2	Required Fire Flow	
	5.3	Proposed Domestic Water Demands	
	5.4	Proposed Water Servicing Design	
6	San	itary Sewer Design	
	6.1	Peak Design Flow	
7	Stor	mwater Management	. 5
	7.1	Storm Design Criteria	
	7.2	Pre-Development Conditions	. 6
	7.3	Allowable Release Rate	. 6
	7.4	Post-Development Stormwater Management Design	. 6
8	Eros	sion and Sediment Control	. 8
9		clusions	

## **List of Appendices**

Appendix A - Figures

Appendix B - Water Servicing

**Appendix C – Stormwater Management Design Sheet** 

**Appendix D – Sewage Flows and Storage Volume Calculations Sheet** 

**Appendix E – Additional Information** 

Appendix F – Drawings



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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.  $360m^2$  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  $m^2$  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.

 $Q = K x V x S_{tot}$ 

#### 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
S <sub>tot</sub>	1.0
V(m³)	1397 m <sup>2</sup> x 3.0m = 4191.0m <sup>3</sup>
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)

= 0.44 L/s or 39,000 L/day

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 tank 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



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storage volumes during each storm events were estimated using the Modified Rational Method. Which were estimated at 211.1 m<sup>3</sup>, 289.7 m<sup>3</sup> and 618.4 m<sup>3</sup> 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.



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**Appendix A – Figures** 





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**Appendix B – Water Servicing** 



TABLE B1
Water Demand Chart

				No	o. of Un	its							Resid	dential Der	nands			Co	mmercial/	Institution	nal		Total D	emands	in (L/sec)
	Single	es/Semi	s/Towns	5			Apar	tments						Max		Peak				Factors g Day)		Peak			
Junction Number (Building)	Single Familty	Semi	Duplex	Townh ome	Bach elor	1- Bed Apt	2-Bed Apt	3-Bed Apt	4-Bed Apt	Avg Apt.	Total Pop	Avg Day Demand (L/day)	Max Day Peaking Factor	Hour Peaking Factor	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 Hou (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
0000 Franktown Road					0						0.0	1,000	9.50	14.50	13,900	24,024	5.25	91,000	1.5	2.1	130300.0	243700.0	1.073	1.703	3.122
Totals =					6						8.4	1,680			15,960	24,024	3.3				136,500	245,700	1.073	1.765	3.122
Unit Densities Singles Semi-Detached Duplex	Persons/Unit 3.4 2.7 2.3	<u>t</u>		Resident Resident Max Day Peak Ho	tial Cons / Peakin	g Factor	(* avg da			280 2.5 5.5	9.50 14.30	Based on M	1ECP-GDWS T	「able 3-3. Le	ss than 500		Project: IBPS Temp	le							
Townhome	2.7			Industr	rial/Car		ial/lastit	hutional	Matan	Consum	antion	•					Designed: Aaditya Jari	wole M.En		Location:					
Bachelor Apt Unit 1-Bed Apt Unit 2-Bed Apt Unit	1.4 1.4 2.1			Light Inc	lustrial (	L/gross	ha/day) =	=		35,000 55,000	<u>nption</u>						Checked: Alam Ansar			6688 Fran	ıktown Road	l, Ottawa, C	DN.		
3-Bed Apt Unit	3.1			Comme						28,000							File Referer			Page No:					
4-Bed Apt Unit Avg. Apt Unit	4.1 1.8			Max Day Peak Ho				ay) =		1.5 2.7							22027645 - Chart.xlsx	Water - De	mand	1 of 1					

From: Evans, Allan <Allan.Evans@ottawa.ca>
Sent: Monday, April 28, 2025 1:02 PM

**To:** 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

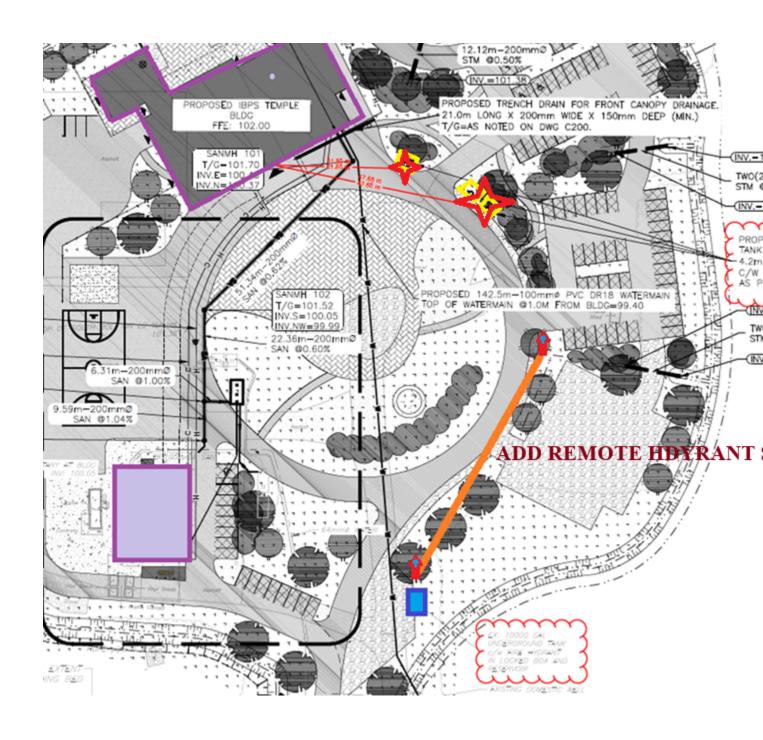


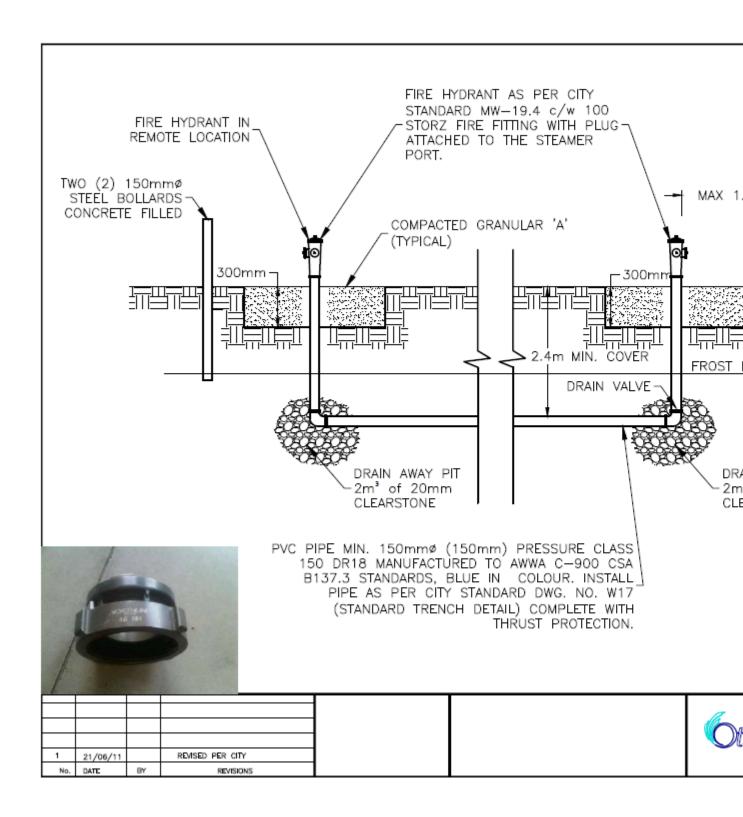
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Hi everyone- thanks for the chat today. Here are my summary points:

- 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

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Book time with Evans, Allan





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From: Aaditya Jariwala <Aaditya.Jariwala@exp.com>

Sent: April 25, 2025 1:51 PM

To: Evans, Allan <Allan.Evans@ottawa.ca>

 $\textbf{Cc:} \ \, \textbf{Alex Leung} < \underline{\textbf{aleung@provencherroy.ca}}; \ \, \textbf{Caelan Mitchell} < \underline{\textbf{cmitchell@provencherroy.ca}}; \ \, \textbf{Alam Ansari} < \underline{\textbf{alam.ansari@exp.com}}; \ \, \textbf{Morgan, Brian} < \underline{\textbf{Brian.Morgan@ottawa.ca}}; \ \, \textbf{Whittaker, Damien}$ 

<Damien.Whittaker@ottawa.ca>

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

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**From:** Evans, Allan < <u>Allan.Evans@ottawa.ca</u>>

Sent: Friday, April 25, 2025 1:49 PM

To: Aaditya Jariwala <Aaditya.Jariwala@exp.com>

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

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.

Α

## Allan Evans

Fire Protection Engineer / Ingénieur de Protection d'Incendies
Prevention Division / Prévention des Incendies
Ottawa Fire Services / Service des Incendies d'Ottawa
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Book time with Evans, Allan



Protéger notre capitale nationale avec honneur

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From: Aaditya Jariwala <Aaditya.Jariwala@exp.com>

Sent: April 25, 2025 1:25 PM

To: Evans, Allan <Allan.Evans@ottawa.ca>

**Cc:** Alex Leung <aleung@provencherroy.ca>; Caelan Mitchell <a href="mailto:cmitchell@provencherroy.ca">cmitchell@provencherroy.ca</a>; Alam

Ansari <a learning="mailto:alam.ansari@exp.com">ansari <a learning="mailto:alam.ansari@exp.com">ansari@exp.com</a>; Morgan, Brian <a learning="mailto:Brian.Morgan@ottawa.ca">Brian.Morgan@ottawa.ca</a>

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.

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From: Evans, Allan <Allan.Evans@ottawa.ca>

Sent: Friday, April 25, 2025 12:31 PM

To: Aaditya Jariwala <Aaditya.Jariwala@exp.com>

Cc: Alex Leung <aleung@provencherroy.ca>; Caelan Mitchell <cmitchell@provencherroy.ca>; Alam

Ansari <a learning="mailto:alam.ansari@exp.com">ansari@exp.com</a>; Morgan, Brian <a learning="mailto:Brian.Morgan@ottawa.ca">Brian.Morgan@ottawa.ca</a>>

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,



Fire Protection Engineer / Ingénieur de Protection d'Incendies Prevention Division / Prévention des Incendies Ottawa Fire Services / Service des Incendies d'Ottawa
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Book time with Evans, Allan





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From: Aaditya Jariwala <Aaditya.Jariwala@exp.com>

Sent: April 25, 2025 10:13 AM

To: Evans, Allan <Allan.Evans@ottawa.ca>

Cc: Alex Leung <aleung@provencherroy.ca>; Caelan Mitchell <cmitchell@provencherroy.ca>; Alam

Ansari <alam.ansari@exp.com>; Morgan, Brian <Brian.Morgan@ottawa.ca>

Subject: RE: IBPS Temple - 6688 Franktown Road.

Importance: High

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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.

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From: Evans, Allan <<u>Allan.Evans@ottawa.ca</u>>
Sent: Wednesday, April 16, 2025 1:10 PM

To: Aaditya Jariwala < Aaditya. Jariwala@exp.com >

**Cc:** Alex Leung <aleung@provencherroy.ca>; Caelan Mitchell <a href="mailto:cmitchell@provencherroy.ca">cmitchell@provencherroy.ca</a>; Alam

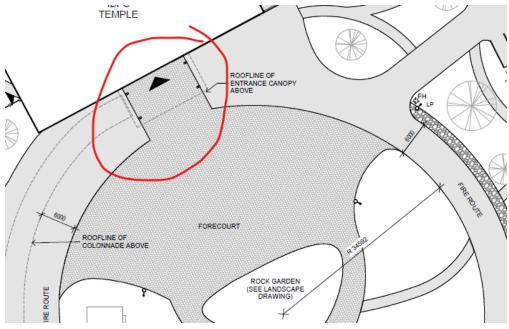
Ansari <alam.ansari@exp.com>; Morgan, Brian <Brian.Morgan@ottawa.ca>

**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
  - 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.
  - 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.

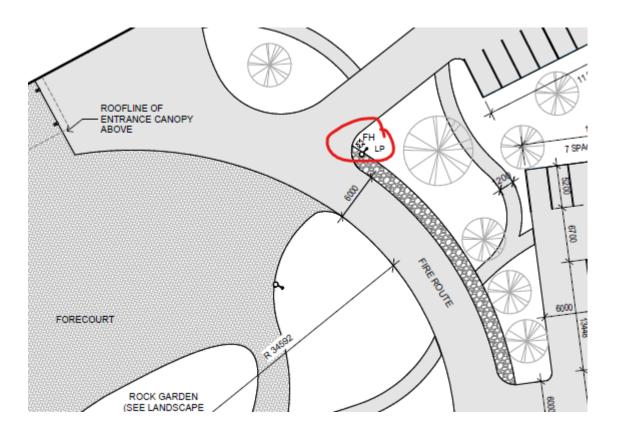


Table 5.1: Summary of Design Parameters Used in Calculating Required Fire Flows (RFF) Using OBC

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
S <sub>tot</sub>	1.0
V(m³)	1397 m <sup>2</sup> x 3.0m = 4191.0m <sup>3</sup>
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 ≤ 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

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Book time with Evans, Allan





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From: Aaditya Jariwala <Aaditya.Jariwala@exp.com>

**Sent:** April 16, 2025 10:40 AM

To: Evans, Allan < Allan. Evans@ottawa.ca>

Cc: Alex Leung <aleung@provencherroy.ca>; Caelan Mitchell <cmitchell@provencherroy.ca>; Alam

Ansari <alam.ansari@exp.com>

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.

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

**Appendix C – Stormwater Management Design Sheet** 



### TABLE C1

### CALCULATION OF AVERAGE RUNOFF COEFFICIENTS FOR PRE-DEVELOPMENT CONDTIONS

	Roof	Areas	Aspha	t Areas	Gra	avel	Grassed	l Areas		Total Area	
Area No.	C=	0.90	C=(	0.90	C=(	0.70	C=0	.20	Sum AC	2	C <sub>AVG</sub>
	Area (m²)	A * C	Area (m²)	A * C	Area (m²)	A * C	Area (m²)	A * C		(m <sup>-</sup> )	
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 Slope	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

1) For Catchments with Runoff Coefficient less than C=0.40, Time of Concentration Based on Federal Aviation Formula (Airport Method), from MTO Drainage Manual Equation 8.16, where: T c = 3.26\* (1.1-C)\* L<sup>0.5</sup>/ S<sub>w</sub><sup>0.33</sup> 2) For Catchments with Runoff Coefficient greater than C=0.40, Time of Concentration Based on Bransby Williams Equation, from MTO Drainage Manual Equation 8.15, where: T c = 0.057\*L / (S<sub>w</sub><sup>0.2\*</sup>A<sup>0.1</sup>)

### 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 <sub>2</sub> (mm/hr)	Cavg	Q <sub>2</sub> (L/sec)	I <sub>5</sub> (mm/hr)	Cavg	Q <sub>5</sub> (L/sec)	l <sub>100</sub> (mm/hr)	Cavg	Q <sub>100</sub> (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>

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+6.014) 0.820 (100-year)

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

5) The standard minimium Time of Concentraion of 10 minutes was used, rather then the calaculted time, since calcualted time was less than 10 minutes.

**TABLE C4** 

## AVERAGE RUNOFF COEFFICIENTS FOR POST-DEVELOPMENT CONDITIONS

		C <sub>ASPH/CONC</sub> =	0.90	C <sub>ROOF</sub> =	0.90	C <sub>SLA</sub> =	0.20	C <sub>GRAVEL</sub> =	<u>0.70</u>			
Area No.	Asphalt & Conc Areas (m²)	A * C <sub>ASPH</sub>	Roof Areas (m²)	A * C <sub>ROOF</sub>	Soft Landscaped Areas (m²)	A * C <sub>SIA</sub>	Gravel Areas (m²)	A*C <sub>GRAVEL</sub>	Sum AC	Total Area (m²)	C <sub>AVG</sub> (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	taken from CA	D										

## TABLE C5

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

		Time of Conc,		Storr	n = WQF			Storm	= 2 yr			Sto	orm = 5 yr			Storm = 1	.00 yr		S	torm = 100 y	r+20%		
Area No	Aroa (ha)	Tc (min)	C <sub>AVG</sub>	I <sub>5</sub> (mm/hr)	Q (1 /see)	Q <sub>CAP</sub>	C <sub>AVG</sub>	I <sub>5</sub> (mm/hr)	Q (L/ses)	Q <sub>CAP</sub>	C <sub>AVG</sub>	I <sub>5</sub> (mm/hr)	Q (L/see)	Q <sub>CAP</sub>	C <sub>AVG</sub>	I <sub>5</sub> (mm/hr)	Q (L/see)	Q <sub>CAP</sub>	C <sub>AVG</sub>	I <sub>5</sub> (mm/hr)	Q (1/ses)	Q <sub>CAP</sub>	Comments
Alea NO	Area (ha)				(L/sec)	(L/sec)			(L/sec)	(L/sec)			(L/sec)	(L/sec)			(L/sec)	(L/sec)			(L/Sec)	(L/sec)	
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	02.70	0.57	104.19	248.17	100.19	0.72	178.56	531.63	230.00	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	
Allowable Release Rates						82.76				82.76				111.36				236.92				236.92	

#### Notes

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) 0.820 (100-year)

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

Table C6 Storage Volumes for 2-year, 5-Year and 100-Year Storms (MRM)

				•	-				•											
	Area No:	A1, A2																		
	C <sub>AVG</sub> =	0.55	(2-yr)																	
	C <sub>AVG</sub> =	0.55	(5-yr)																	
	C <sub>AVG</sub> =	0.68	(100-yr, N	lax 1.0)					Act	ual Releas	e Rate (L/sec) =	230.00								
Tir	ne Interval =	5.00	(mins)				Percentag	e of Actual	Rate (City	of Ottawa	requirement) =	100%	(Set to 50%	when U/G	storage used)					
Dra	nage Area =	3.2518	(hectares)			Rele	ase Rate U	sed for Esti	mation of 3	100-year St	orage (L/sec) =	230.00				Intensity	Incr (%) =	20%	Use 20%	
																			Climate	Change
													<b>*</b>							
		elease Rate =		(L/sec)			ase Rate =					ease Rate =		(L/sec)			se Rate =		. ,	
		turn Period =		(years)	0.010		n Period =		(years)	0.014		rn Period =		(years)	0.820		Period =		,	0.000
Duration	IDF Pa	rameters, A = ( I = A/(		, B = , C =			neters, A = = A/(T <sub>c</sub> +C)	998.1	, B = , C =			neters, A = = A/(T <sub>c</sub> +C)	1735.7	, B = , C =		IDF Param ( I =	· A/(T <sub>c</sub> +C)	1735.7	, B = , C =	
(mins)	. 1	(1-7)(	1	1	0.199			1	ı .	0.033			ı	1	0.014	· ·		ı		0.014
	Rainfall	Peak Flow	Release	Storage	Storage	Rainfall	Peak	Release	Storage	Storage	Rainfall	Peak	Release	Storage	s. (3)	Rainfall	Peak	Release		Storage
	Intensity, I (mm/hr)	(L/sec)	Rate (L/sec)	Rate (L/sec)	(m³)	Intensity, I (mm/hr)	Flow (L/sec)	Rate (L/sec)	Rate (L/sec)	(m³)	Intensity, I (mm/hr)	Flow (L/sec)	Rate (L/sec)	Rate (L/sec)	Storage (m³)	Intensity, I (mm/hr)	Flow (L/sec)	Rate (L/sec)	Rate (L/sec)	(m <sup>3</sup> )
		227.1														` ,			` ′	0.0
5	167.2 103.6	827.4 512.5	82.8 82.8	744.7 429.7	0.0 128.9	230.5 141.2	1140.4 698.6	108.2 108.2	1032.2 590.4	0.0 177.1	398.6 242.7	2465.5 1501.1	230.0 230.0	2235.5 1271.1	0.0 381.3	478.3 291.2	2958.6 1801.4	284.3 284.3	2674.3 1517.1	0.0 455.1
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	522.2
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	130.6 106.4	470.0 415.1
70	21.9	108.4	82.8	25.7	107.8	29.4	145.3	108.2	37.1	156.0	49.8	308.0	230.0	78.0	327.4	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	134.1	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
Notes												City of Ott	tawa IDF D	ata (from S	SDG002)					
1 ) Peak flow	•	product of 2.7	8 x C x I x A								IDF curve equat	-								
	tensity, I = A/(T	-	=! \								100 year Intensity		•	n min + 6.01	4) 0.820					
		ase Rate, Peak w - Release Rate	-								50 year Intensity	= 1569.	580 / (Time i	$n \min + 6.01$	4) 0.820					
	Duration x Sto		_								25 year Intensity 10 year Intensity	= 1402.7 = 1174	884 / (Time i	n min + 6.01 n min + 6.01	8) 0.819 4) 0.816					
6) Maximiun	Storage = Ma	x Storage Over	Duration								5 year Intensity	= 998.0	71 / (Time in	min + 6.053	0.814					
7) Paramete	rs a,b,c are for	City of Ottawa									2 year Intensity	= 732.9	51 / (Time in	min + 6.199	0.810					

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		l	1		
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
Γotal Pond Storage (Pond + Ditch + Sediment	Forebay) =				1,037
Forebay Area as percent of total area =					15%

**Chart C8: Stage-Storage Curve of SWM Facility** 

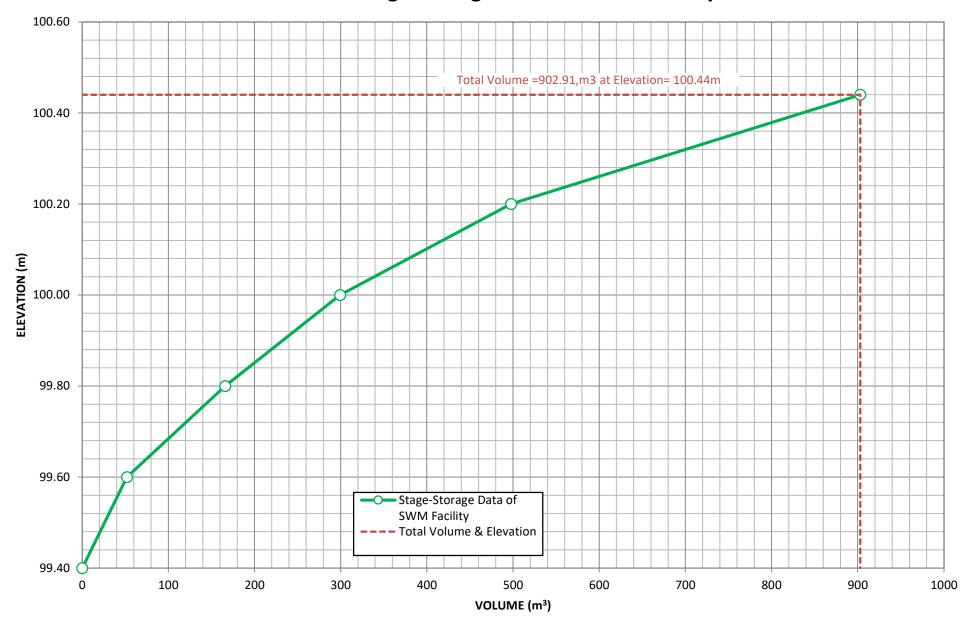


TABLE C9
Storage-Outflow Data of SWM Facility

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)

	1	2					
Vertical Rect	angular Orifice	Broad-Crested Weir					
Width (m)	0.075	Length (m)	0.50				
Height (m)	0.08	Height (m)	0.34				
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	Total Flow	Storage
(m)		(m3)	(m)	(L/sec)	(m)	(L/sec)	(L/sec)	(m3)
100.44	Top of Pond	902.91	0.903	14.44	0.3400	312.2900	326.73	902.910
100.40		822.61	0.863	14.12	0.3000	275.5500	289.67	822.610
100.35		731.09	0.813	13.70	0.2500	229.6250	243.32	731.090
100.30		647.10	0.763	13.27	0.2000	183.7000	196.97	647.100
100.25		569.47	0.713	12.83	0.1500	137.7750	150.60	569.470
100.20		497.69	0.663	12.37	0.1000	91.8500	104.22	497.690
100.15		412.41	0.613	11.89	0.0500	45.9250	57.82	412.410
100.10		373.42	0.563	11.40			11.40	373.420
100.05		335.71	0.513	10.88			10.88	335.710
100.00		299.26	0.463	10.34			10.34	299.260
99.95		264.07	0.413	9.76			9.76	264.070
99.90		230.11	0.363	9.15			9.15	230.110
99.85		197.39	0.313	8.50			8.50	197.390
99.80		165.90	0.263	7.79			7.79	165.900
99.75		135.62	0.213	7.01			7.01	135.620
99.70		106.56	0.163	6.13			6.13	106.560
99.65		78.71	0.113	5.10			5.10	78.710
99.60		52.06	0.063	3.80			3.80	52.060
99.55		27.50	0.013	1.70			1.70	27.500
99.50		10.05						10.050
99.45		2.07						2.070
99.40	Bottom of Pond							

### 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

**Chart D10: Storage-Outflow Curves of SWM Facility** 

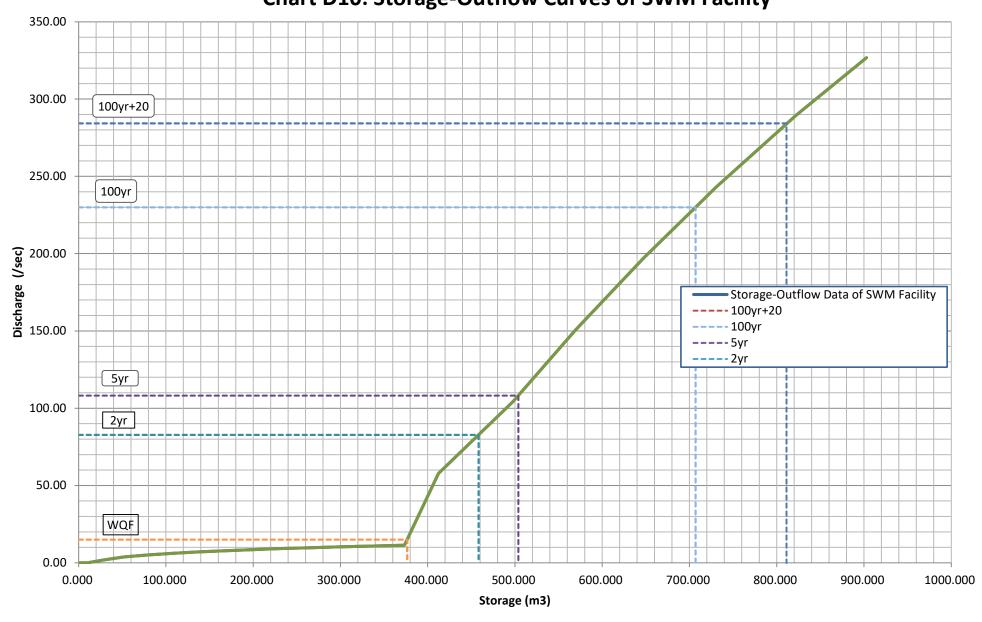


TABLE C11
SUMMARY OF WATER QUALITY VOLUMES OF SWM FACILITY

		Poi	nd 1	
Item	Units	Requried	Provided	Comment
Facility type	1	Extended Dete	ention Dry Pond	
Drainage Area to Facility, A	ha	3.	25	
Percent Imperviousness	%	5:	2%	
Water Quality Volume Requirements, WQVV	m3/ha	11	0.8	Based on MOE Table 3.2
Extended Detention Volume Requirements	m3/ha	40.0		Based on 40 m3/ha
Extended Detention Volume Requirements	m3/ha	27.7		Based on 25% of WQCV
Extended Detention Volume Requirements	m3/ha	40.0		Maximum of 40 m3/h or 25% of WQCV
Permanent Pool Volume Requriements	m3/ha	0	.0	WQCV - 40m3/ha for Wet Ponds, 0 for Dry Ponds
Permanent Pool Volume Req'd	m3	0	27	(WQCV - 40m3/ha) * A
Water Quality Volume Requirements	m3	360	605	Water Quality Volume = WQCV * A. Provided Volume Based on Permanent Pool + Extended Detention Volume
Extended Detention Volume, EDV	m3	130	605	Based on: 40m3/ha * A OR 25%*WQCV*A
Extended Detention Volume, EDV	1113	150	003	Baseu on. 40ms/na · A OR 25% · WQCV· A
Flood (or Quantity) Control Volume	m3	707	903	Based on City of Ottawa 100-year storm event
Extended Detention + Flood Control Vol		837	903	Extended Detention Is Included in Flood Control Volume for Wet Ponds
Forebay Volume	m3	0	134	Based on 20% of the Permanent Pool Volume per MOE, 0 for drypond
Main Cell Volume	m3	0	1037	Main Cell Volume = Permanent Pool - Forbay Volume

### 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							
	l [	35	90							
Normal	70%	55	110	Dry Pond. Same Level of Protection as Wet Pond						
Normar		70	130	Dry Pona. Same Level of Protection as Wet Pona						
		85	150							
		100	170							
Note: Storage Requirements for 0% and 100% are extrapolated										

TABLE C12
Area-Depth Data of SWM Facility

Elev (m)	Depth of Ponding (m)	End Area (m²)	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

Slope coefficient from the area-depth linear regression, C2 = Intercept from the area-depth linear regression, C3 =

2762.0 377.3

# TABLE C13 Drawdown Data of SWM Facility

Top of Pond Elev (m) = 100.44

Bottom of Pond Elev (m) = 99.40

WQCV (m3) = 360 WQCE (m) = 100.03 WCD (m) = 0.63

Orifice Type = Vertical Rectangular Orifice

Orifice Area (m2) = 0.0056

Orifice Invert Elev (m) = 99.50

Orifice Centroid Elev (m) = 99.538

Orifice Discharge Coefficient = 0.61

 Weir Type =
 Broad-Crested Weir

 Weir Area (m2) =
 0.1700

 Weir Invert Elev (m) =
 100.10

 Weir Width (m) =
 0.50

 Weir Side Slopes (Z) =
 1.00

 Weir Discharge Coefficient =
 1.84

C2 = 2,762 C3 = 377

### Comments

Water Quality Control Volume Based on MOE Criteria(Table 3.2) Water Surface Elevation for Storage of WQCV.

Depth (or height) of Water Control Volume.

LOWER ORIFICE

**UPPER ORIFICE** 

Slope coefficient from the area-depth linear regression Intercept from the area-depth linear regression

	A	ctive Storage Above NWL		Qual	ity Orifce (L	ower)	Quan	tity Orifce (	Upper)	Drawdo	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	Outflow (L/sec)	Comments
100.44	903	2,097	0.94	0.94	0.0056	43.0	0.34	0.170	0.48	26.19	1.09	289.665	Top of Pond
100.40	823	1,914	0.90	0.90	0.0056	40.8	0.30	0.170	0.42	26.13	1.09	243.325	
100.35	731	1,746	0.85	0.85	0.0056	38.1	0.25	0.170	0.36	26.07	1.09	196.972	
100.30	647	1,613	0.80	0.80	0.0056	35.5	0.20	0.170	0.30	26.01	1.08	150.604	
100.25	569	1,492	0.75	0.75	0.0056	33.0	0.15	0.170	0.24	25.95	1.08	104.221	
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		60			0.0056			0.170					Bottom of Pond

NOTES:

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 = 27

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

Equation 4.11 Drawdown Time. (Page 4-58 MOE Stormwater Management Planning and Design Manual)

where:

t = Drawdown time (seconds)

C2 = Slope coefficient from the area-depth linear regression

C3 = Intercept from the area-depth linear regression

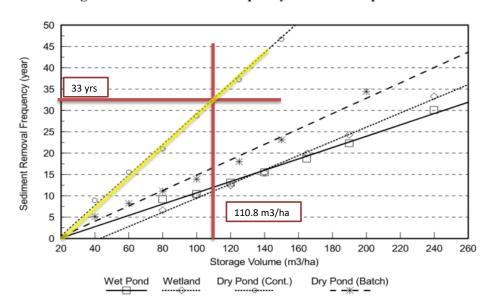
Ao = Cross-sectional area of the orifice (m2)

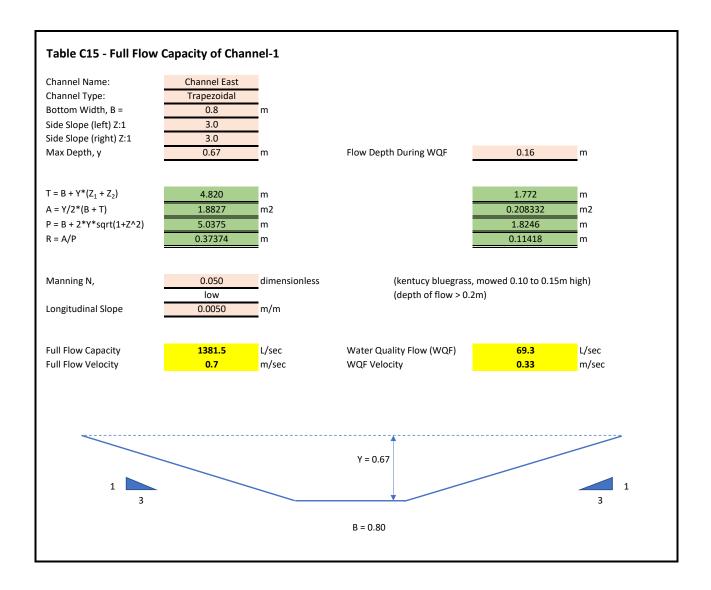
h = Maximium water Elevation above the orifice

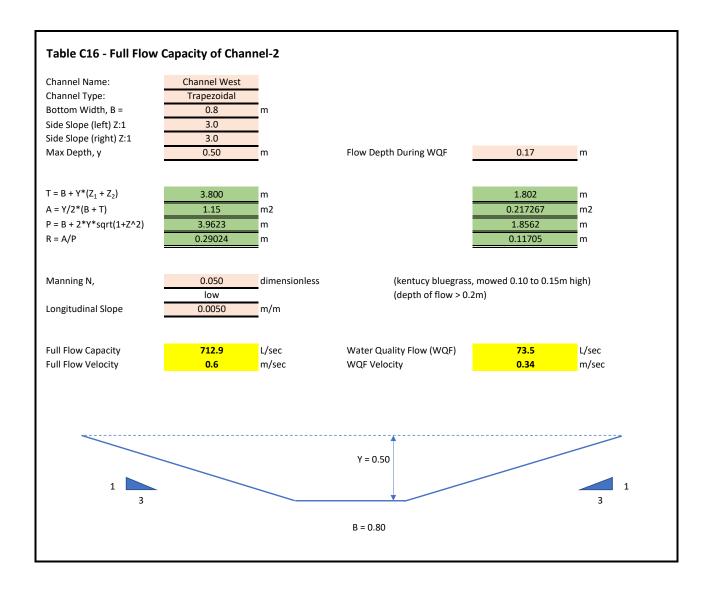
TABLE C14
SEDIMENT REMOVAL FREQUENCY

SWM Facility Type	Extended De	tention Dry Pond
Upstream Drainge Area (ha)	3.251796	
Imperviousness (%)	51.7	
Requried Water Quality Vol (m3/ha)	110.8	
Sediment Removal Frequency (years)	33	(from Figure 6.1 Below based on WQV)

Figure 6.3: Storage Volume vs. Removal Frequency – for 70% Impervious Catchments







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** 



			Peak Attendance		Sewage Flows	Residential	Total Sewage	Sewage Volume		
		Peak	Used for Septic	Residential	from Events	Sewage Flows	Flow to be	Deficit from Previous	Daily Treatment	Sewage Storage
Week	Day	Attendance	Design	Population	(L/day)	(L/day)	Treated (L/day)	Cycle (L/day)	Volume (L/day)	Volume (L/day)
Week 1	Monday	0			0	3000.0	3000.0	0	3000.0	
	Tuesday	35	35					0.0		
	Wednesday	35	35					0.0		
	Thursday	35	35					0.0		
	Friday	35	35					0.0		
	Saturday	35	35					0.0		
Week 2	Sunday Monday	200	200					0.0 200.0		
week 2	Tuesday	0 35	0 35					0.0		
	Wednesday	35	35					0.0		
	Thursday	35	35							
	Friday	35	35					0.0		
	Saturday	130	130							
	Sunday	330	330							
Week 3	Monday	0	0							
	Tuesday	35	35	6	1260			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	3000.0	5880.0	3800.0	9680.0	0.0
Week 4	Monday	0	0	6	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					0.0		0.0
	Friday	35	35					0.0		
	Saturday	100	100					0.0		
	Sunday	360	360							
Week 5	Monday	0	0					5960.0		
	Tuesday	30	30					0.0		
	Wednesday	30	30							
	Thursday	30	30							
	Friday	30	30							
	Saturday	30	30							
Wook C	Sunday	200	200							
Week 6	Monday	30	30							
	Tuesday Wednesday	30	30							
	Thursday	30	30							
	Friday	30	30							
	Saturday	500	500							
	Sunday	5000	1000					11000.0		
Week 7	Monday	0	0							
WOOK?	Tuesday	30	30					33000.0		
	Wednesday	30	30					27080.0		
	Thursday	30	30					21160.0		
	Friday	30	30		1080			15240.0		
	Saturday	30	30					9320.0		
	Sunday	350	350	6	12600	3000.0	15600.0	3400.0	10000.0	9000.0
Week 8	Monday	0	0	6	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	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	3 1260	3000.0	4260.0	0.0	4260.0	0.0
	Sunday	260	260	6	9360					
Week 9	Monday	0	0	6	0					
	Tuesday	35	35							
	Wednesday	35	35							
	Thursday	35	35							
	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 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		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
WOOK 10	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
WCCK 14	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 15		0	0	6	9300	3000.0	3000.0	2360.0	5360.0	0.0
Week 13	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	9300	3000.0	3000.0	2360.0	5360.0	0.0
week 10	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		4260.0	0.0
	Friday	35	35	6	1260			0.0	4260.0	0.0
	Saturday				9360	3000.0 3000.0	4260.0 12360.0			
Week 17	Sunday	260	260	6 6			3000.0	0.0 2360.0	10000.0 5360.0	2360.0 0.0
Week 17	,	0	0 35	6	0 1260	3000.0 3000.0	4260.0		4260.0	0.0
	Tuesday	35						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		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
Week 20	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 21	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	1000	1000	6	36000	3000.0	39000.0	0.0	10000.0	29000.0
Week 22	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	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 23		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
			35		1260		4260.0			0.0
	Friday	35		6		3000.0		0.0	4260.0	
	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 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	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
		300	300	6	10800	3000.0	13800.0	0.0	10000.0	3800.0
	Saturday									
	Sunday	560	560	6	20160	3000.0	23160.0	3800.0	10000.0	16960.0
Week 26	-	335	335	6	12060	3000.0	15060.0	16960.0	10000.0	22020.0
	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
Week 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
			185	6	6660	3000.0	9660.0		10000.0	26720.0
	Friday	185						26720.0		
	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 Tuesday	100 100	100 100	6 6	3600 3600	3000.0 3000.0	6600.0 6600.0	26600.0 23200.0	10000.0 10000.0	23200.0 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
Week 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	Monday	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
Week 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
Week 32		0	0	6	0	3000.0	3000.0	14940.0	10000.0	7940.0
WCCR 02	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
Week 33	_	0	0	6	0	3000.0	3000.0	2360.0	5360.0	0.0
Week 33	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	
Week 34	Monday	0	0	6	9300	3000.0	3000.0	2360.0	5360.0	2360.0
Week 34	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	3000.0	4260.0	0.0	4260.0	0.0
	Thursday	35	35		1260	3000.0	4260.0		4260.0	
	Friday			6				0.0		0.0
	Saturday	100	100	6	3600	3000.0	6600.0	0.0	6600.0	0.0
W1-05	Sunday	260	260	6	9360	3000.0	12360.0	0.0	10000.0	2360.0
Week 35		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 36		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 37	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 38	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 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	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 41	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	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 Thursday	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	185	185	6	6660	3000.0	9660.0	0.0	9660.0	0.0
Week 43		0	0	6	0	3000.0	3000.0	0.0	3000.0	0.0
WCCK 40	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	-	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 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
Week 46		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 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
		97	86		3111.4		6111.4			40000.0

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 Site 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)
  - · Site 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)
  - Site 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 (8½" x 11"). A scale of 1:200 is recommended for the Site 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 City'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 Club Village Community Association Attn: Denyse MacKenzie Phone Day: 613-253-0026 denysemackenzie@xplornet.ca 6 Links Drive South Ashton, Ontario KOA 1B0

Richmond Village Association

Attn: John Shearer

Phone Day: 613-838-4830

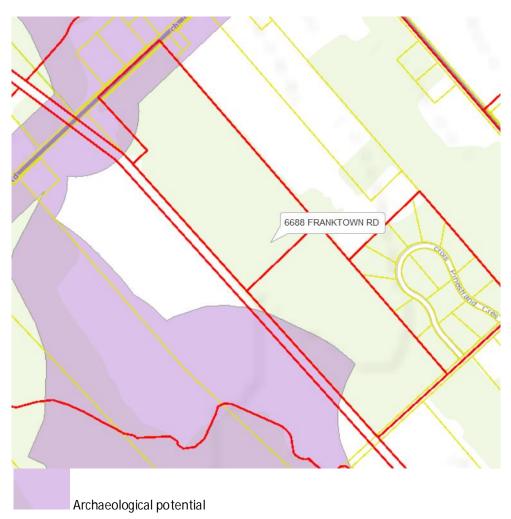
johnshearer@richmondvillage.ca; davidproulx@richmondvillage.ca

208 Cedarstone Street Richmond, Ontario KOA 2ZO

- 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 Site 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 @ amira.shehata@ottawa.ca, 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 Zoning By-law, particularly Rural Exceptions (Section 240) for RI[643r] and RI[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 EIS along with the potential for Endangered and Threatened Species Habitat.
  - The EIS is to conform with the Council-approved guidelines which are available here: <a href="http://documents.ottawa.ca/sites/documents.ottawa.ca/files/documents/eis\_guidelines2015\_en.pdf">http://documents.ottawa.ca/sites/documents.ottawa.ca/files/documents/eis\_guidelines2015\_en.pdf</a>
  - 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 EIS to 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 Resource 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)
  - Slightly 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



Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa

Address of property:

Scan - Email -Phone Folder - CanadaPost -PickUp Box

3889 Rideau Valley Drive Box 599 Manotick, ON K4M 1A5

Phone: 613-692-3571 1-800-267-3504 Fax; 613-692-1507 88 Wanktown

Email: 'septic@rvca.ca

Township: OSG HUN-GLO-FIT-CUM-NEP-GOU-RID-KAN

Contact for pickup: Phone#/Email:

INFORMATION FOR OWNER/APPL

Scott St Attached is your Sewage System Permit. A minimum of two inspections are required before your proposed sewage system can be approved for use (additional inspections may be required for clay soils/bedrock and/or reinspections). Inspections must be requested in writing. Please see attached:

- Inspection fax request form (all inspections MUST be requested in writing)
- As-built components and drawing form
- Copy of the approved application and schedule pages
- Approved Part 8 permit (applicant copy YELLOW)(city copy#2 PINK \*\* Agent Deliver Direct To City\*\*)

### PLEASE NOTE

- A permit is valid for 12 months from the original date of issuance noted in "permit date". If lapsed, it may be renewed only once for a period of 12 months from the date of expiry.
- No person shall make a material change or cause a material change to be made to a plan, specification, document or other information on the basis of which a permit was issued without 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 Requirements

1. Clay Soils/Bedrock only (if required per issued Approval)

In clay soils/bedrock, a site preparation inspection is required. The total contact area must be properly prepared. Scarification must be done under dry conditions prior to importing leaching bed fill.

2. Installation Inspection - 2<sup>nd</sup> inspection

When the sewage system is substantially completed (i.e., before the final fill is placed over the septic tank and leaching bed system) an installation inspection is required. Prior to any inspection request, the following must be submitted:

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 – 3<sup>rd</sup> inspection

When construction of the sewage system is complete, a final grading inspection is required. Before a Certificate of Completion can be issued, the following must be complete:

a) The leaching bed and septic tank must be covered with sand fill and topsoil and graded accordingly

b) All conditions of the Sewage System Permit & comments on the installation inspection report must be met

c) The depth of cover & material type must be identified by inspection pipes or holes placed over trenches at 4

d) The 4 corners of the bed must be staked



Main Phone: 613-692-3574 x 1129

18-548
REQUIRED FOR ALL

# **Inspection Request Form**

Complete and fax to: 613-692-1507 or e-mail: septic@rvca.ca

Section A. Property and Date Submitted						
Civic Address		3	eptic File Number:			
Olvio Address						
	☐ Osgoode ☐ Cumber	rland 🔲 Goull	bourn Torbolton	Nepean		
Former Township	☐ Huntley ☐ Rideau	□ Glou	cester Fitzroy			
Property Owner	- Inducad	· ·	cester Fitzroy	Kanata 🔲 Ottaw		
Section B. Requestor II	oform of lea					
Name of Requestor	liormation					
E-mail			hone Number:			
		F	ax Number:			
I am the (check one)	Installer Enginee	er Property	/ Owner			
Section C. I am Reques	ting the following:	÷4.				
1st - Subgrade (If						
required - check one):	☐ 2 <sup>nd</sup> – Installation I (Check all that apply	nspection	☐ 3 <sup>rd</sup> – Final Grade Inspecti			
Scarification	Refer to attached:			1 × 2 × 2 1		
Clay Seal	As-Built Compone	nto Dono	Note: Topsoil	Note: Topsoil must be applied		
Subgrade	As-Built Drawing	nis Page	unless winter conditions exis			
	☐ Engineers Letter		at Director's 0	All deficiencies must be addressed from installation		
	Filter Media Bills		All deficiencie			
	Grain Size Analys	ie	addressed fro			
	☐ Maintenance Agre		report			
	☐ ESA Permit Numb	erient				
Notes/Comments	= = = = = = = = = = = = = = = = = = =					
C 4 - D D :						
Section D. Re-inspection	The state of the s	e g				
Re-inspection - 1 <sup>st</sup>	Re-inspection Rec					
	Note: Re-inspection feet Please provide paym	ee applies o	n requests for same	deficiency –		
	Card Type:	☐ Masterca		a		
	Card Number:		Expi			
N 4 10	Cardholder Name:					
Notes/Comments						
Please Note:						

- 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

# **AS-BUILT COMPONENTS**

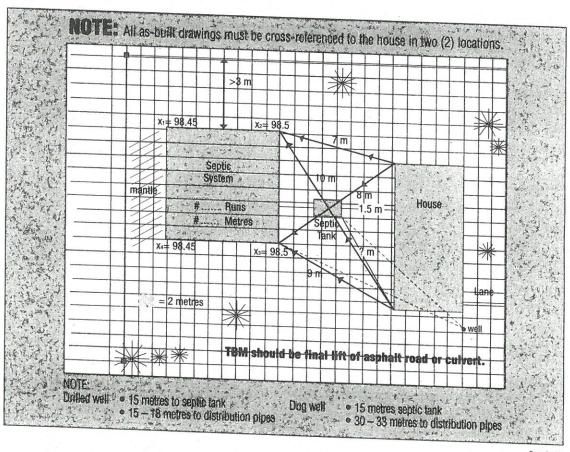
(required prior to installation inspection)

SEPTIC APPLICATION

SEPTION 18-548

Elevations of installed system must be supplied with this report (in Exact size and location of all structures, well(s) and system(s) and its components must Septic/Holding Tanks	reference to the TEND FOR
Septic/Holding Tank:	be shown (including neighbouring lots).

Manufacture Lank:	Name of owner:
Manufacturer:	Installer:
□ concrete □ plastic □ other	Installer Signature:
Filter: no yes make	License Number:
Treatment: Make	Date of Installation:
Unit: Model	
Diameter of pipes mm/inches	Pump Systems:
Make of pipes:	ESA Permit #:
Ends: a capped interconnected	Volume discharge rates:/15mir
Number of runs: m	Alarm location:
Length of runs: m	Dimension of Pump Chamber:
Stone aream²	Height of Float Switch:
Filter media:	Grease Interceptor:
Amount Purchased:kg	□ no □ yes Size:
Date Purchased:	Location:
Supplier:	
Grain/size analysis by:	
Analysis dated:	
Stone:	
Amount Purchased:kg	* Grain Size Analysis and weight bills must be supplied with this report
Date Purchased:	and report.
Supplier:	All rights reserved. No part of this work may be reproduced or used in any form without the prior written permission of the copyright holder.



# **AS-BUILT DRAWING**

SEPTIC PERMIT NO. Scale: 1 = 1 metre

SEPTIC APPLICATION 18-548
REQUIRED FOR ALL
INQUIRIES

Page 3 of 3 March 2010

Batch #

12778 10 Entry #:

### RECEIPT CONFIRMATION

Page: 1

Rideau Valley C. A.

P.O. Box 599 Manotick, Ontario K4M 1A5

Canada Phone: (613) 692-3571 Fax: (613) 692-0831

DOCUMENT NO.:

PY000033782

**DATE**: 4/23/2019

AMOUNT RECEIVED

965.00 CAD

FROM

Patrick Leblanc

	5
SIGNATURE	

TOTAL:

965.00

PAID BY: CHECK

CHECK/RECEIPT NO.:

000012778-00010

**DATE RECEIVED:** 4/23/2019

	DESCRIPTION	AMO	TAUC
4300-20-20600	NEW 6688 Franktown Road (GOU) Septic File 18-548		965.00
		SUB-TOTAL:	965.00
		<del>-</del>	1 8 2 F F F F F F F F F F F F F F F F F F
		·	

### Application for a Permit to Construct or Demolish

This form is authorized under subsection 8(1.1) of the Building Code Act, 1992 For use by Principal Authority Permit number (if different): Application number: Date received: Roll number: OTTAWA SEPTIC SYSTEM OFFICE Application submitted to: (Name of municipality, upper-tier municipality, board of health or conservation authority) A. Project information Building number, street name Unit number Lot/con. Part Lot 19, Con 3 6688 Franktown Road Municipality Postal code Plan number/other description Ottawa, Geographic Township of Goulbourn K0A 2Z0 Project value est. \$ Area of work (m<sup>2</sup>) ~924 sq.m B. Purpose of application New construction Addition to an Alteration/repair Demolition Conditional existing building Permit Proposed use of building Current use of building Assembly/Place of Worship N/A Description of proposed work Proposed development of a Class 4 leaching bed with a level IV treatment unit, and 'Type A' dispersal bed for the future development of a place of worship. Leaching bed designed, as per this application, is intended to service the interim facility. Some components of the system which are expected to form part of a larger approval for the final build out of the development (to be approved by MECP) have been overdesigned for this reason. Authorized agent of owner C. Applicant Applicant is: Owner or Corporation or partnership Last name First name Leblanc Patrick McIntosh Perry Consulting Engineers Street address Unit number Lot/con. 115 Walgreen Road, R.R. #3 Municipality Postal code Province E-mail **K0A 1L0** p.leblanc@mcintoshperry.com Ontario Telephone number Cell number (613) 836-3742 (613)(613) 229-5863 714-4586 D. Owner (if different from applicant) Last name First name Corporation or partnership International Buddhist Progress Society of Ottawa-Carleton Street address Lot/con. Unit number 1950 Scott Street Municipality Postal code Province F-mail City of Ottawa K1Z 8L8 Ontario bingfeng.li@bingpro.ca Telephone number Cell number (613) 759-8111 ( )

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

OSSO version June 2014

E. Builder (optional)				
Last name	First name	Corporation or partnership (if	applicable)	
Street address			number	Lot/con.
Municipality	Postal code	Province APR - SE-ma	ail	700
Telephone number ( )	Fax ( )	Cell I	number AP	PLICATION
F. Tarion Warranty Corporation (Or	ntario New Home War		18.	
<ul> <li>i. Is proposed construction for a new Plan Act? If no, go to section G.</li> </ul>	v home as defined in the (	Ontario New Home Warranties	Yes	ED POX ALL
ii. Is registration required under the	Ontario New Home Warra	inties Plan Act?	Yes	QUINIES
iii. If yes to (ii) provide registration nu	mber(s):			
G. Required Schedules				
i) Attach Schedule 1 for each individual when	no reviews and takes resp	consibility for design activities.		
ii) Attach Schedule 2 where application is t	o construct on-site, install	or repair a sewage system.		
H. Completeness and compliance	with applicable law			
<ul> <li>This application meets all the requirements         Building Code (the application is made         applicable fields have been completed applicable are submitted).</li> </ul>	in the correct form and by	the owner or authorized agent, all	Yes x	No
Payment has been made of all fees tha regulation made under clause 7(1)(c) of application is made.			Yes X	No
<ul> <li>This application is accompanied by the resolution or regulation made under cla</li> </ul>	use 7(1)(b) of the <i>Building</i>	Gode Act, 1992.	Yes x	No
iii) This application is accompanied by the law, resolution or regulation made under the chief building official to determine we contravene any applicable law.	r clause 7(1)(b) of the Buil	ilding Code Act, 1992 which enable	Yes X	No
iv) The proposed building, construction or	demolition will not contrav	rene any applicable law.	Yes x	No
I. Declaration of applicant				
Patrick Leblanc			de	clare that:
documentation is true to the best	of my knowledge.	edules, attached plans and specifica		her attached
Date April 23, 2019	Signatu	are of applicant		

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act*, 1992, and will be used in the administration and enforcement of the *Building Code Act*, 1992. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M5G 2E5 (416) 585-6666.

OSSO version June 2014

**Schedule 1: Designer Information** 

Use one form for each individual who review	vs and takes re	sponsibility for design	n activitie	s with respect to the	e project.
A. Project Information					
	ktown Road	T <sub>1</sub>	DVCA	Unit TOEIVED	Lot/con. Part Lot 19, Con 3
Municipality City of Ottawa, Geographic Township of Goulbourn	Postal code K0A 2Z0	Plan number/ other	er descript	ion R 2 3 2019	LCATION
B. Individual who reviews and takes	responsibili	ty for design act	ivities	KIJE	-C APPLIO
Name Patrick Leblanc		Firm McIntosh	Perry Co	onsulting Enginee	110
Street address 115 Walgreen Road, R	l.R. #3			Unit no.	Lovon.
Municipality Carp	Postal code K0A 1L0	Province Ontari	io	E-mail p.leblanc@	emcintoshperry.com
Telephone number ( 613 ) 714-4586	Fax number ( 613 ) 836-	3742		Cell number ( 613 ) 229-5	863
C. Design activities undertaken by i Division C]			B. [Bui	( )	2000000.000
House		- House		Building Stru	uctural
Small Buildings		g Services		Plumbing - I	House
Large Buildings		on, Lighting and Po	wer	Plumbing -	
Complex Buildings Description of designer's work	Fire Pro	otection		On-site Sew	age Systems
Proposed development of a Class 4 leads for the interim facility which will contain the contained by the con	onsist of a place	ce of worship.		t, and Type A dis	persai
Patrick Leblanc					
(print name	e)		de	clare that (choose o	one as appropriate):
I review and take responsibility C, of the Building Code. I am	y for the design qualified, and th	work on behalf of a ne firm is registered,	firm regist in the app	tered under subsect propriate classes/cat	tion 3.2.4.of Division tegories.
Firm BCIN:					
I review and take responsibilit under subsection 3.2.5.of Divi Individual BCIN:	y for the design sion C, of the B	and am qualified in suilding Code.	the appro	priate category as a	nn "other designer"
Basis for exemption from	registration:				
The design work is exempt from					Code.
I certify that:	ale and the first				
The information contained in this s     I have submitted this application w					
Date April 23, 2019		Signature of Design	ner $40$		

### NOTE:

- 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

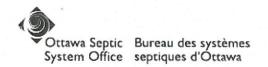
## Schedule 2: Sewage System Installer Information

A. Project Information			DECEN	LUNG APPLICATION
Building number, street name 6688	Franktown Roa		R.V.Onit number	Lot/con. A
Municipality Ottawa, Geographic Township of Goulbourn	Postal code K0A 2Z0	Plan number/ other	description PR 2 3 Lui	8-548
B. Sewage system installer				ALUDED FOR A
Is the installer of the sewage system eng emptying sewage systems, in accordance Yes (Continue to Section C)	e with Building C		ision C?  E) X Installer	unknown at time of ion (Continue to Section E)
C. Registered installer information	on (where answ	ver 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 informati	on (where ans	wer to section B is	"Yes")	
E. Declaration of Applicant:				
Patrick Leblanc				declare that:
(print name)				ueciare triat.
I am the applicant for the perm shall submit a new Schedule 2  OR  I am the holder of the permit to is known.	prior to construc	tion when the installer	is known;	
I certify that:				
The information contained in the	s schedule is tru	e to the best of my kno	wledge.	
2. If the owner is a corporation or	partnership, I hav	ve the authority to bind	the corporation or partne	ership.
Date April 23, 2019		Signature of applicar	nt A	

Do Not Complete Permit No Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa R.V.C.A. Revision No Data9 Schedule 4 **Proposed Services** Complete Sections 1 thru 7 1. Engineered 2. Water supply X Yes X Proposed ☐ No ☐ Existing 3. Type of work proposed 4. Type of Well X New Installation ☐ Dug/bored/Sandpoint well Replacement X Drilled well ☐ Alteration ☐ Municipal Other 5. Residential Sewage Design Flow Info. 6. Sewage Design Flow Other Occupancies **Bedrooms** Design Flow 9,999 House (floor area) Detailed sewage flow calculations: People Assembly Hall, Kitchen Facilities Provided: 36L/day/seat or person **Total Fixture Units** Assume Max Accupancy in one day is 277 People (Schedule 8) Flow (Q) = (36L/day/Person) \*(277 People) = 9,972 L/day **Residential Flow** L/day Class 4 – BMEC Area Bed (Schedule 11) 7. Type of System ☐ Fully raised Treatment Unit Waterloo Biofilter Baskets (2x) Partially raised ☐ Class 2 – Leaching Pit ☐ In-ground ☐ Class 3 – Cesspool X Class 4 – "Type A" Dispersal (Schedule 13) ☐ Class 4 – Shallow Buried Trench X Fully raised ☐ Partially raised Class 4 - Trench (Schedule 9) ☐ In-ground ☐ Fully raised Class 4 – "Type B" Dispersal (Schedule 14) Partially raised ☐ Fully raised ☐ In-ground ☐ Partially raised Class 4 - Filter Media (Schedule 10) ☐ In-ground ☐ Fully raised ☐ Partially raised Class 5 – Holding Tank (9000L min) In-ground ☐ Tank/TreatmentUnit/PumpChamber ONLY

OSSO Version June 2014

☐ Effluent Filter/Risers ONLY



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Schedule 5 Sewage System Details

Type of System Class 4 Fully Raised Type A Dispersal	Bed System ( Schedule 4)
Septic/Holding Tank Size: 19,998 (min) Litres	Make:MacGregor Concrete Products
Septic Tank Effluent Filter Make: Polylok PL-625 or Equiva	alent Model: MAC-23000-1P
Treatment Unit - Make & Model Waterloo Biofilte	r (2x Biofilter Medium Filled Baskets)
Number of Units: 1	Other:
Refer to Typical Drawing # E	Pump(s) requiredyes
Mantle Information:	Pump Rate as per Waterloo
Native or imported=15m in <u>S-E</u> direction(s)	Note: Alarm required for all
	pumping systems
Slope subgradeN/A % slop	e
direction	on(s)
Site to be Scarified (If clay) YES /NO	
Clay Seal Required (If bedrock) YES /NO	
□ Trench	
Distribution Pipe Length m	☐ Shallow Buried Trench
Loading Aream <sup>2</sup>	Pipe Length m
Type of Chamber	
Length of Chamber m	☐ Filter Media Bed
☐ BMEC Area Bed	Stone m <sup>2</sup>
☑ Type A	Extended Base m <sup>2</sup>
☐ Type B	Pipe m
Stone m <sup>2</sup>	Weight of Filter Media Kg
Sand m <sup>2</sup>	Loading Area m <sup>2</sup>
Pipe m	
Linear LoadingL/m <sup>2</sup>	
☐ Tank/Treatment Unit/Pump Chamber Replace ☐ Effluent Filter & Riser ONLY	cement ONLY
Construction Notes:	
All tanks, piping and connections below origing groundwater infiltration. Additionally, floatations	Jinai grade shall be sealed to prevent
contractor prior to installation for all tanks a	nd accounted for during installation if

determined to be required during review.
Page 6

Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa R.V.C.A. RECEIVED

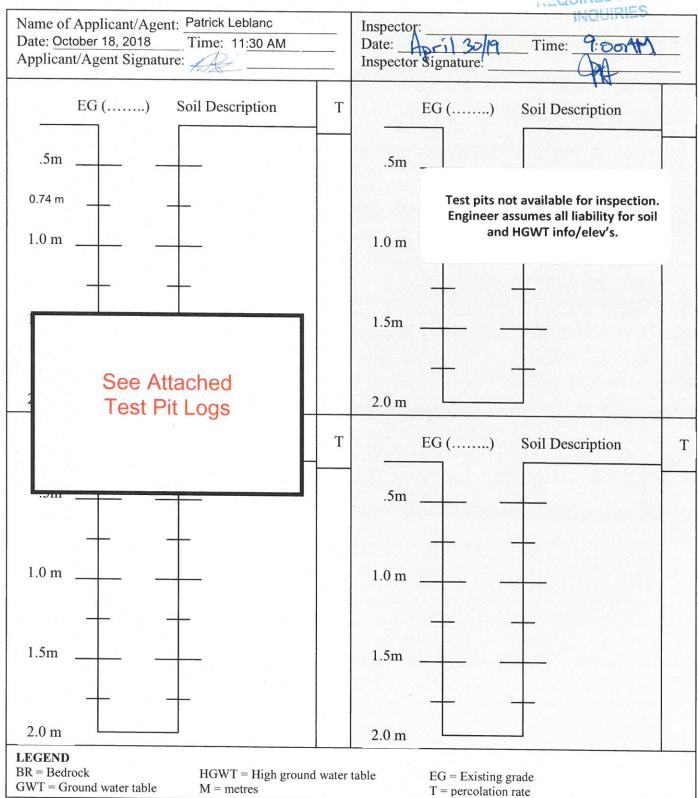
Do Not Complete Permit No \_\_\_\_

Revision No PPLICATION

Schedule 6 ?? 2 3 2019
Soil and Water Table Information

(Minimum depth of test pit: 2 metres)

FOURED FOR ALL



MCINTOSH PERRY TEST PIT ID: TPR.V.C.A. RECENED SHEET 1 of 1 LOGGED BY: Patrick Leblanc APR 2320 PROJECT No: CP-17-0503 SITE: 6688 Franktown Rd. CONTRACTOR: McIntosh Perry CLIENT: Bing Professional Engineering Inc. DATE EXCAVATED: October 18, 2018 Notes TIC P Depth Symbol Description Sample Type Ground Surface QUIRED FOR AL Topsoil (0m to 0.15m) 0.2 0.4 Clay (0.15m to 0.90m) 0.6 0.8 EOH @ 0.90m (Dry) - 1.0 1.2 1.4 \_ 1.6 - 1.8 NOTES Excavated using hand auger REVIEWED BY: Patrick Leblanc Descriptions are based on observations and hand testing of grab samples. Mechanical Tests were not performed unless otherwise stated. TEMPLATE: MP - Test Pit

E: 6		17-0503 ktown Rd. fessional Engineering Inc.	LOGGED BY: Patri CONTRACTOR: McI DATE EXCAVATED:	ck Leblanc	the same of the sa
th	Symbol		Description		SENOTES APPLICATION Sample Type
- 0.2			Topsoil (0m to 0.25	Ground Surface	QUIRED FOR AL
0.6 0.8 1.0 1.4 1.8 2.0			Reddish brown Brown Sar lighter brown with depth (0 0.91m)	nd becoming 0.25m to	
0.8			ЕОН	@ 0.91m (Dry)	
1.4					
	xcavatec	d using hand auger			
ons ar	e based on of	oservations and hand testing of grab samples. erformed unless otherwise stated.			ED BY: Patrick Leblanc

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TE: 668		7-0503 town Rd. essional Engineering Inc.	LOGGED BY CONTRACTO DATE EXCA	/: Patrick Leblar OR: McIntosh Pe VATED: October	rry 18, 2018	PR 2 3 2019	
epth Sy	mbol		Description				Sample Type
ft m 0			Topsoil (0m	Ground S to 0.1m)	urface	SEPTIC A	PPLICATION 5.4.8
0.2			Medium Brown S	Sand (0.1m to 0.	30m)	1 8 REQUI	Sample Type PPLICATION  - 5 4 8  RED FOR AI IQUIRIES
0.4							
0.6			Clayey Sand to S content increasin to 0.90m)	Sandy Clay, with	clay 3m		
- 0.2 - 0.4 - 0.6 - 0.8 - 1.0				EOH @ 0.90r	m (Dry)		
- 1.4							
1.6 							
- 1.8 - 1.8							
ptions are ba	ased on obs	using hand auger ervations and hand testing of grab samples. formed unless otherwise stated.				D BY: Patrick Lebl	anc

E: 6688 Fr	P-17-0503 anktown Rd. Professional Engineering Inc.	LOGGED BY: Patrick Leblanc A. RECEIVED CONTRACTOR: McIntosh Perry DATE EXCAVATED: October 18, 2018 2 3 2019		
oth Symbol		Description	Notes Sample Type	
m - 0		Topsoil (0m to 0.1m)	Notes Sample Type SEPTIC APPLICATION 8	
- 0.2			SEPTIC APPLICATION  18-548  REQUIRED FOR ALL  INQUIRES	
- 0.2 - 0.4 - 0.6 - 0.8 - 1.0 - 1.2 - 1.4 - 1.6		Clayey Sand to Sandy Clay, wire content increasing with depth (6 to 0.90m)	th clay	
- 0.8				
- 1.0		EOH @ 0.9	0m (Dry)	
- 1.4				
- 1.6				
1.8				
	ted using hand auger			
iptions are based on observations and hand testing of grab samples. anical Tests were not performed unless otherwise stated.			REVIEWED BY: Patrick Leblanc  TEMPLATE: MP - Test Pit	

ITE: 6		17-0503 ktown Rd. fessional Engineering Inc.	CONTRACTOR: IVIC	ck Leblanca RE Intosh Perry October 18, 2018		
epth	Symbol	Descrip	otion		Notes	Sample Type
ft m 0			Topsoil (0m to 0.1)	Ground Surface m)	SEPTIC	APPLICATIO
0.2					1 8 REQUI	APPLICATIO  - 5 4 8  RED FOR AL
0.4		Bro dep	wn sand becoming on the trace clay (0.1m	grey with to 0.9m)		
0.8			EOH	H @ 0.90m (Dry)		
		d using hand auger				
ptions a anical Te	re based on ob sts were not p	oservations and hand testing of grab samples. erformed unless otherwise stated.			BY: Patrick Lebl	anc

SITE: 66	888 Fran	LOGGED BY: Patrick Leblanc ktown Rd. CONTRACTOR: McIntosh Perry 3 20 pate EXCAVATED: October 18, 2018	19	
Pepth	Symbol	Description	Notes SEPTIC AP	PL Sample Type
ft m		Ground Surface Topsoil (0m to 0.15m)	18	548
		Medium brown sand (0.15m to 0.9m)	Rust mottling visible in upper sand layer	548 ED FOR AL' QUIRIES
0.4				
0.8		FOU. 0.000 (F. )		
1.0		EOH @ 0.90m (Dry)		
1.2				
1.4	9			
1.6				
1.8			,	
		d using hand auger		
criptions a	re based on	REVIEW observations and hand testing of grab samples.	ED BY: Patrick Lebl	anc
hanical Te	sts were not	performed unless otherwise stated	ATE: MP - Test Pit	

re: 66		7-0503 ktown Rd. essional Engineering Inc.		BY: Patrick Leblanc CTOR: McIntosh Perry CAVATED: October 18, 201	RECEIVED	-10
pth	Symbol		Description			APSample Type
0.2			Topsoil (0	Ground Surface m to 0.25m)	REG	AP Sample Type  8 - 5 4 8  UIRED FOR  INQUIRIES
0.4			Rusty red san brown with de	d becoming lighter pth (0.25m to 0.84m)	_	
0.6						
- 0.6 - 0.6 - 1.0 - 1.6 - 1.8 - 2.0				EOH @ 0.84m (Dry)		
- 1.2						
1.4						
- 1.8						
		using hand auger				
otions are	e based on ob	servations and hand testing of grab san	iples.	REVIEV	VED BY: Patrick Let	olanc

E: 668		7-0503 ktown Rd. fessional Engineering Inc.	LOGGED BY: Patrick Leblanc CONTRACTOR: McIntosh Perry DATE EXCAVATED: October 18, 2018	V.C.A. RECEIV	ED
oth S	Symbol		Description	Notes	Sample Type
0.2 - 0.2 - 0.4 - 0.6 - 1.0 - 1.2 - 1.4 - 1.6			Ground Surface  Topsoil (0m to 0.25m)	SEPTIC AI	PPLICATION FOR A
0.4			Medium red and brown sand becoming light brown with depth (0.25m to 0.94m)	INC	QUIRIES
0.6					
- 0.8			EOH @ 0.94m (Dry)		
1.2					
- 1.4					
- 1.6					
1.8					
	cavated	using hand auger			
otions are	based on ob	servations and hand testing of grab samples. rformed unless otherwise stated.		D BY: Patrick Leblanc	

## R.V.C.A. RECEMED MCINTOSH PERRY TEST PIT ID: TP9 APR 2 3 2019 PROJECT No: CP-17-0503 LOGGED BY: Patrick Leblanc SITE: 6688 Franktown Rd. CONTRACTOR: McIntosh Perry CLIENT: Bing Professional Engineering Inc. DATE EXCAVATED: October 18, 2018 Depth Symbol Description Notes Sample Type SEPTIC APPLICATION Ground Surface 18-548 Topsoil (0m to 0.25m) EQUIRED FOR ALL - 0.2 Medium brown sand with rust mottling throughout, becoming light brown with depth (0.25m to 0.97m) 0.4 0.8 - 1.0 EOH @ 0.97m (Dry) 1.2 1.4 \_ 1.6 1.8 NOTES Excavated using hand auger REVIEWED BY: Patrick Leblanc escriptions are based on observations and hand testing of grab samples. lechanical Tests were not performed unless otherwise stated. TEMPLATE: MP - Test Pit

## MCINTOSH PERRY TEST PIT ID: R.V.O.A. RECEIVED SHEET 1 of 1 LOGGED BY: Patrick Lebland R 2 3 2019 PROJECT No: CP-17-0503 SITE: 6688 Franktown Rd. CONTRACTOR: McIntosh Perry CLIENT: Bing Professional Engineering Inc. DATE EXCAVATED: October 18, 2018 SEPTIC ATPLSample Type Depth Symbol Description Ground Surface REQUIRED FOR ALL Topsoil (0m to 0.10m) 0.2 Medium brown sand, becoming light 0.4 brown with depth (0.10m to 0.99m) 0.6 - 0.8 - 1.0 EOH @ 0.99m (Dry) - 1.2 - 1.4 1.6 1.8 NOTES Excavated using hand auger REVIEWED BY: Patrick Leblanc Descriptions are based on observations and hand testing of grab samples. Mechanical Tests were not performed unless otherwise stated. TEMPLATE: MP - Test Pit

E: 6	r No: CP-17-0503 6688 Franktown F Bing Profession			CONTRACTO	: Patrick Lebland DR: McIntosh Perr VATED: October 18	у А	PR 2 3 2019	
oth	Symbol		Descri	ption		AND DESCRIPTION OF THE PARTY OF	Notes	Sample Type
m - 0					Ground Sur	face	CVESTICA	Hou
				Topsoil (0m	to 0.20m)	SEPT	Notes  C APPLICA  1 6  EQUIRED F	OK ALL
- 0.2			Grey	sand (0.20m to	0.30m)	RE	INQUIR	Ea
0.8 0.8 0.8 0.8 0.8 1.0 1.0 1.1 1.2	1		Rusty re with dep	ed sand, becor oth (0.30m to 0	ming light brown ).91m)			
- 0.6								
0.8								
					EOH @ 0.91m	(Dry)		
- 1.0								
- 1.2								
- 1.4 -								
- 1.6								
- 1.8								
- 2.0								
TES	Excavated using	nand auger						
tions a	are based on observations a ests were not performed un	and hand testing of grab sampless otherwise stated.	oles.			REVIEWED B	Y: Patrick Lebla	anc

: 6	No: CP-17-0503 6688 Franktown Rd. Bing Professional Engineering Inc.	LOGGED BY: Patrick Leblanc CONTRACTOR: McIntosh Perry DATE EXCAVATED: October 18,	R.V.C.A. RECEIVED 2018 APR 2 3 2019
th	Symbol	Description	Notes Sample Type
m - 0		Ground Surfac Topsoil (0m to 0.20m)	SEPTIC APPI  1 8 - 5 4  REQUIRED FL INQUIRIE
- 0.2	2	Grey sand (0.20m to 0.35m)	REQUIRED FO
- 0.4		Rusty red sand, becoming brown then light brown with depth (0.35m to 0.99m)	
- 0.8			
- 0.6 - 0.6 - 0.8 - 1.0 - 1.2 - 1.4 - 1.6 - 1.8	2	EOH @ 0.99m (Di	ry)
- 1.e	6		
_			
tions	Excavated using hand auger  are based on observations and hand testing of grab samples ests were not performed unless otherwise stated.	S.	EVIEWED BY: Patrick Leblanc

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PROJECT No: CP- SITE: 6688 Fran CLIENT: Bing Pro	. Guitant Edulatio	APR 2 3 2019 2018	3
Depth Symbol	Description	Notes	Sample Ty
o ft m	Ground Surfac	ce APP	NON
	Topsoil (0m to 0.15m)	SEPTICA	£ 7 0
0.2	Grey sand (0.15m to 0.30m)	SEPTIC APP	N. C.
1.0	Brown sand with rust mottling, becoming light brown with depth (0.30m to 0.81m)		
0.8	EOH @ 0.81m (Da	y)	
1.0			
1.2			
1.4			
1.6			
1.8			
2.0			
NOTES Excavated	using hand shovel		
Descriptions are based on ob Mechanical Tests were not p	ervations and hand testing of grab samples.  formed unless otherwise stated	VIEWED BY: Patrick Leb	lanc
	TEI	MPLATE: MP - Test Pit	

TE: 6		17-0503 ktown Rd. fessional Engineering Inc.	LOGGED BY: Patrick Leblanc CONTRACTOR: McIntosh Perry DATE EXCAVATED: October 18, 2018	APR 2 3 2019
pth	Symbol		Description	Notes Sample Type
m 0	2		Ground Surface Topsoil (0m to 0.25m)	SEPTIC APPLICATE TOPE  18-548  REQUIRED FOR ALI INQUIRIES
0.6		Red brov	ldish brown sand, becoming light wn with depth (0.25m to 0.81m)	
0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.			EOH @ 0.81m (Dry)	
1.				
- 1.				
- - - 1. - - - - - - - - - - - - - - - -				
ptions	are based on o	observations and hand testing of grab samples. performed unless otherwise stated.		ED BY: Patrick Leblanc

	r No: CP- 6688 Fran	17-0503 ktown Rd.	LOGGED BY: Patrick Leblanc CONTRACTOR: McIntosh Perry	R.V.C.A. RECSHELFE DA
IENT:	Bing Pro	fessional Engineering Inc.	DATE EXCAVATED: October 18, 20	
pth	Symbol	Desc	ription	Notes Sample Type
0.	2		Ground Surface Topsoil (0m to 0.25m)	Notes SEPTIC APPLICATION PROPERTY SAMPLE Type  18-548 REQUIRED FOR ALL INQUIRIES
_ - - 0.	4		h brown sand, becoming light with depth (0.25m to 0.81m)	
0.6	3			
			EOH @ 0.81m (Dry	()
1.	0			
1.	4			
_ _ _ 1.	6			
1.	8			
_		ed using hand shovel		
riptions nanical	are based on Tests were not	observations and hand testing of grab samples. performed unless otherwise stated.		VIEWED BY: Patrick Leblanc  MPLATE: MP - Test Pit

	No: CP-	17-0503 LOGGED BY: Patrick Leblanc contractor: McIntosh Perry	R.V.C.A. RE	
		ofessional Engineering Inc.  DATE EXCAVATED: October 18, 201		MION
epth	Symbol	Description	Notes PLTC	Sample Type
	2	Ground Surface Topsoil (0m to 0.30m)	Notes PLICATION NOTES PLICATIO	FOR ALL IRIES
0.4	1	Reddish brown sand, becoming light brown with depth (0.30m to 0.81m)		
- 0.6				
1.0	)	EOH @ 0.81m (Dry)		
1.2				
1.0	6			
1.8				
OTES	Excavate	ed using hand shovel		
criptions hanical 1	are based on ests were not	observations and hand testing of grab samples.	WED BY: Patrick Leb	lanc

Scale: 1Block = L	Sched				R	18 - EQUIRE INC	PLICATION DED FOR DED	ALI
	ache	ed D	raw	/ing:	R	18-	548 EDFOR	ALI
See Atta	ache	ed D	Draw	/ings		EQUIRE	ED FOR MURIES	3-4
See Atta	ache	ed D	)raw	/ing:	S			
See Atta	ache	ed D	raw	/ing	S			
See Atta	ache	ed D	)raw	/ing	S			
See Atta	ache	ed D	)raw	/ing:	S			
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Page 8

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 $X_5$ 

 $X_7$ 

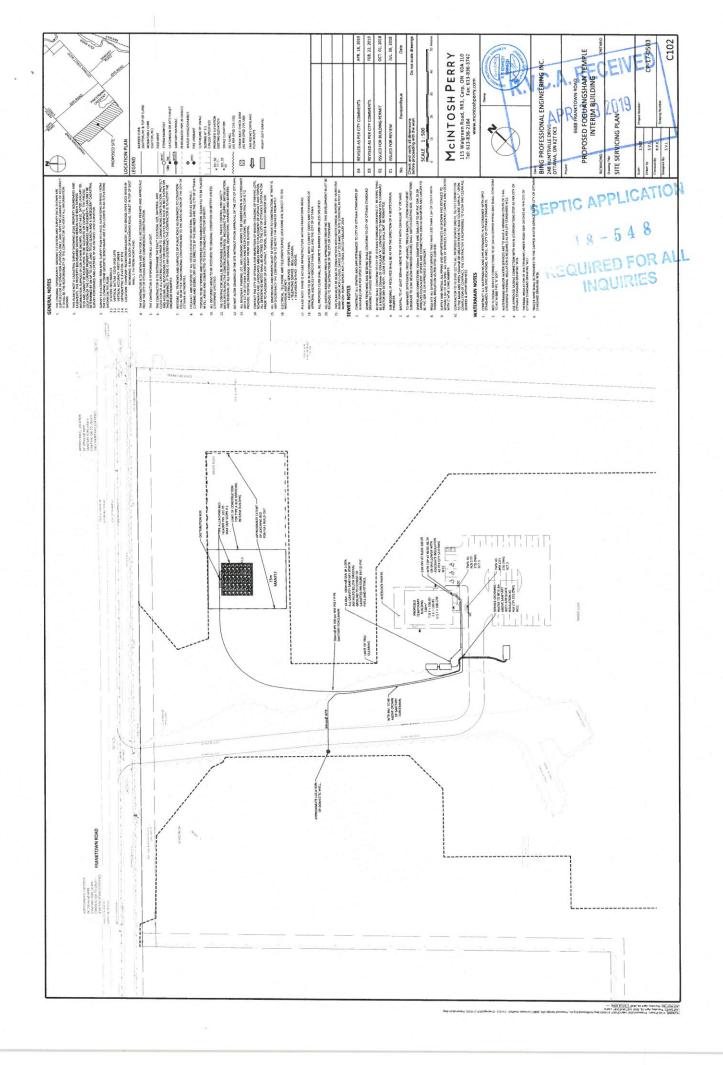
B.M Description \_

Exact Location \_

OSSO version June 2014

Min. of 5 elevations in proposed system area (in X pattern)

X<sub>6 (toe)</sub>



Ottawa Septic Bureau des systèmes System Office septiques d'Óttawa

R.V.C.A. RECEIVED Schedule 8 2019

Do Not Complete Permit No Revision No Date

Fixture unit count

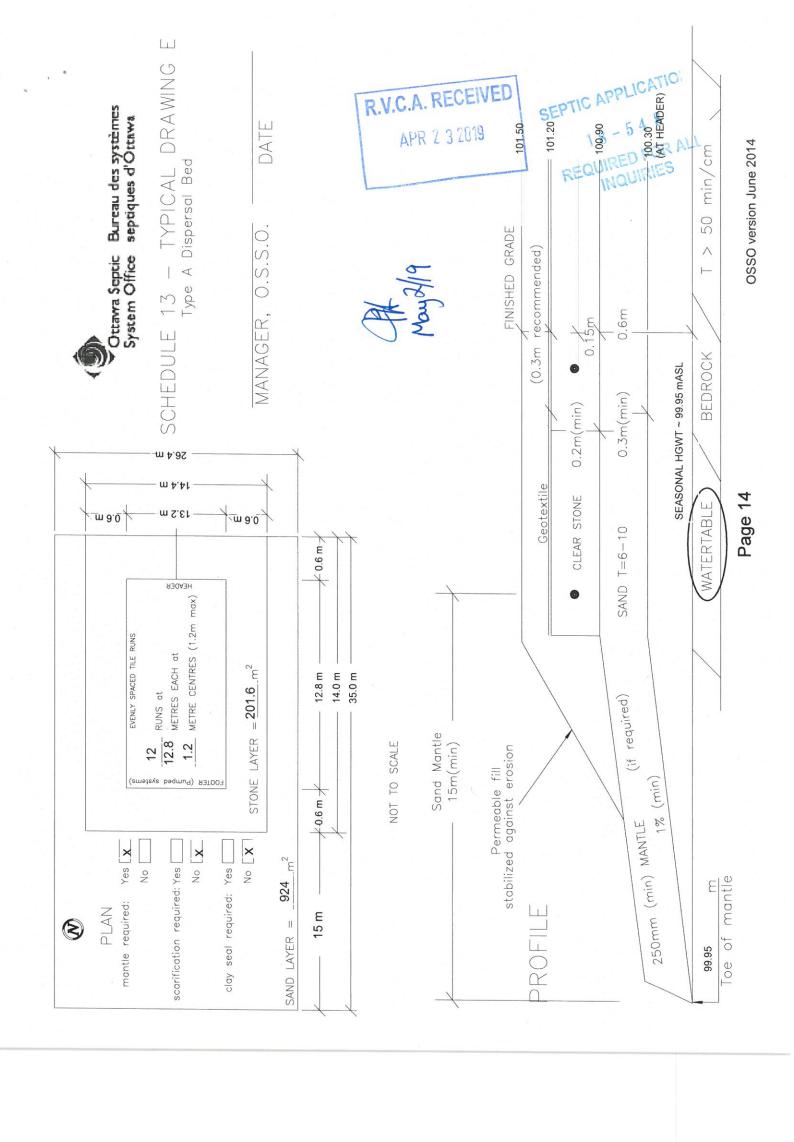
**Fixtures** # Existing + # Proposed X unit count = **Fixture Count Bathroom** Bathroom group (toilet, sink and tub or shower) with flush tank + X 6 Bathtub with/without overhead shower + X 1.5 Shower stall X 1.5 X Wash basin (1½inch trap) 1.5 Watercloset (toile N/A (See Schedule 4) **Bidet** Kitchen Dishwasher Sink with/without garbage grinder(s), domestic and other small type single, double or 2 single with a common trap + X 1.5 Other Domestic washing machine + X 1.5 Combination sink and laundry tray single or double (Installed on 1½ trap) 1.5

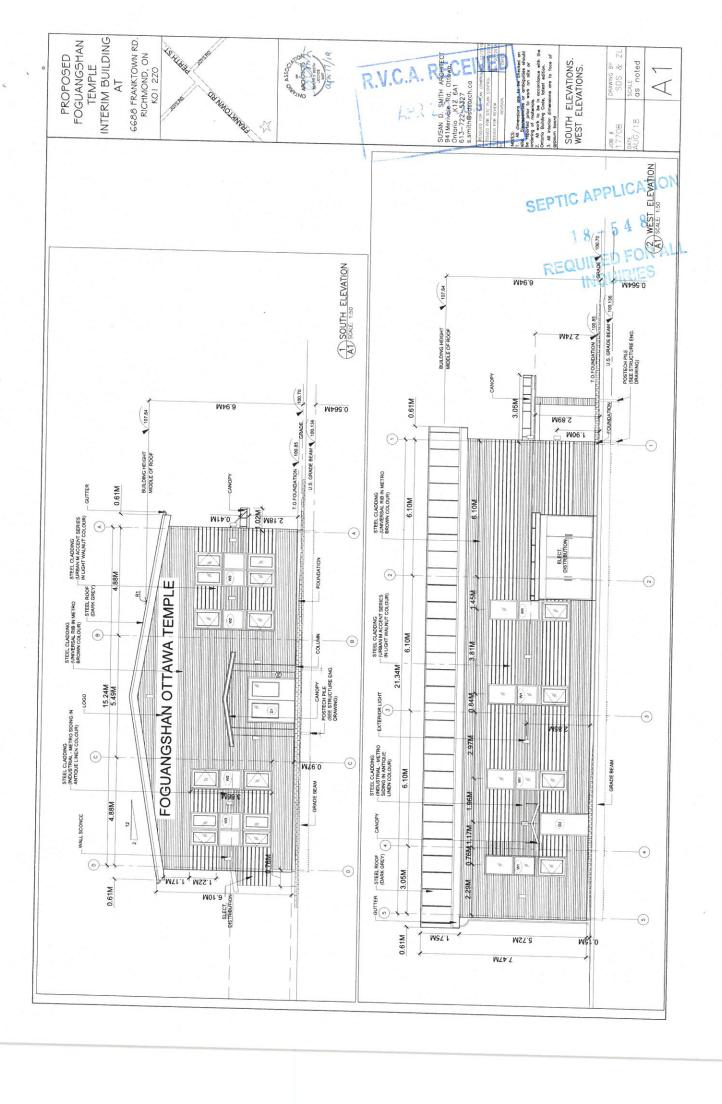
\*Total: \*Insert the TOTAL in section 5 of Schedule 4 (0.Reg 151/13 Table 7.4.9.3)

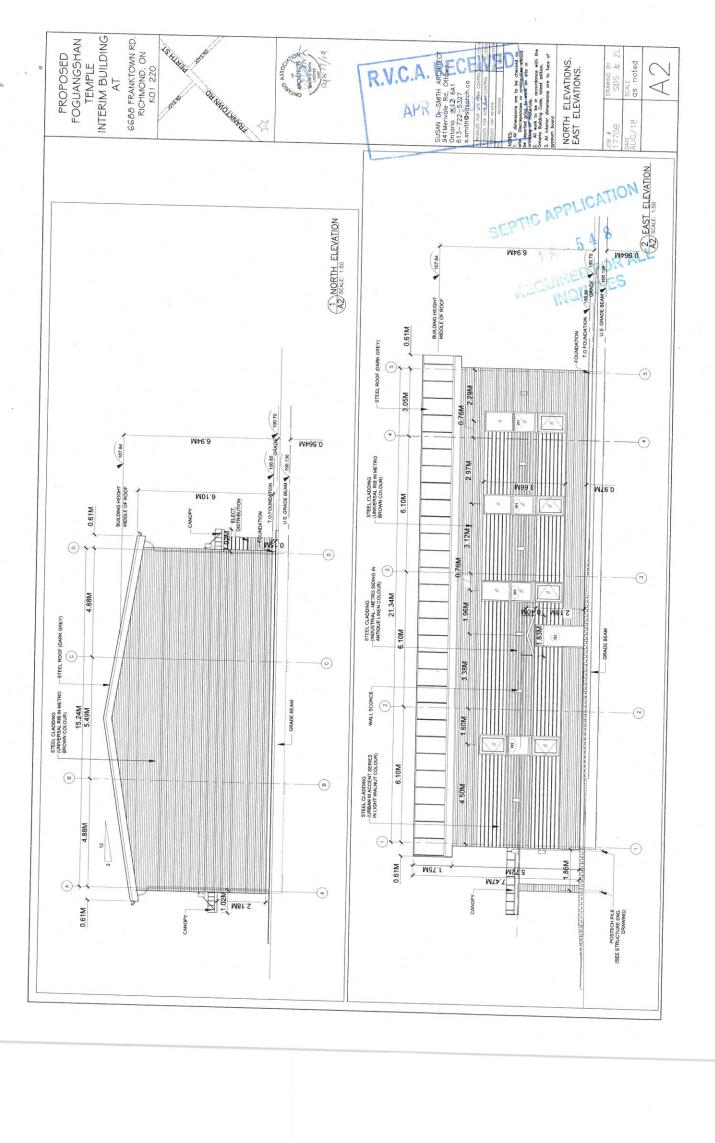
1. Sump pumps and floor drains are not to be connected to the sewage system. Connection of such fixtures to a sewage system may lead to a hydraulic failure of the said system. The above mentioned fixtures should be discharged separately to an approved Class 2 (leaching pit) sewage system.

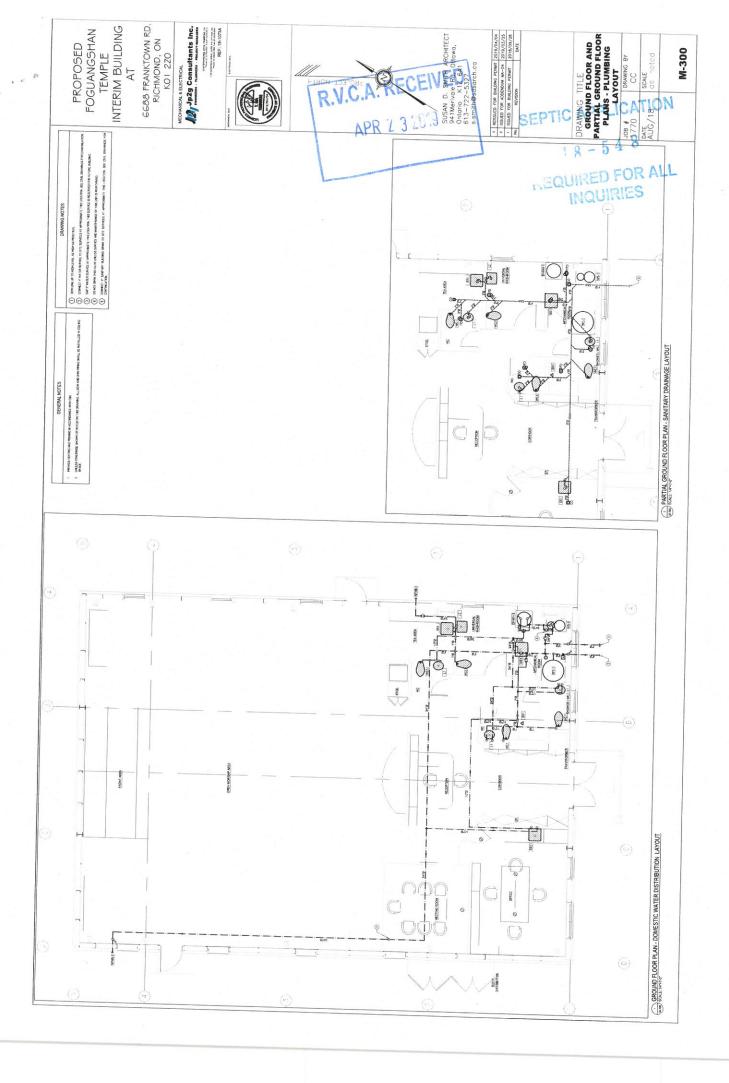
2. Where laundry waste is not more than 20% of the total daily design sanitary sewage flow, it may discharge to a sewage system (Part 8, OBC, 8.1.3.1(2)).

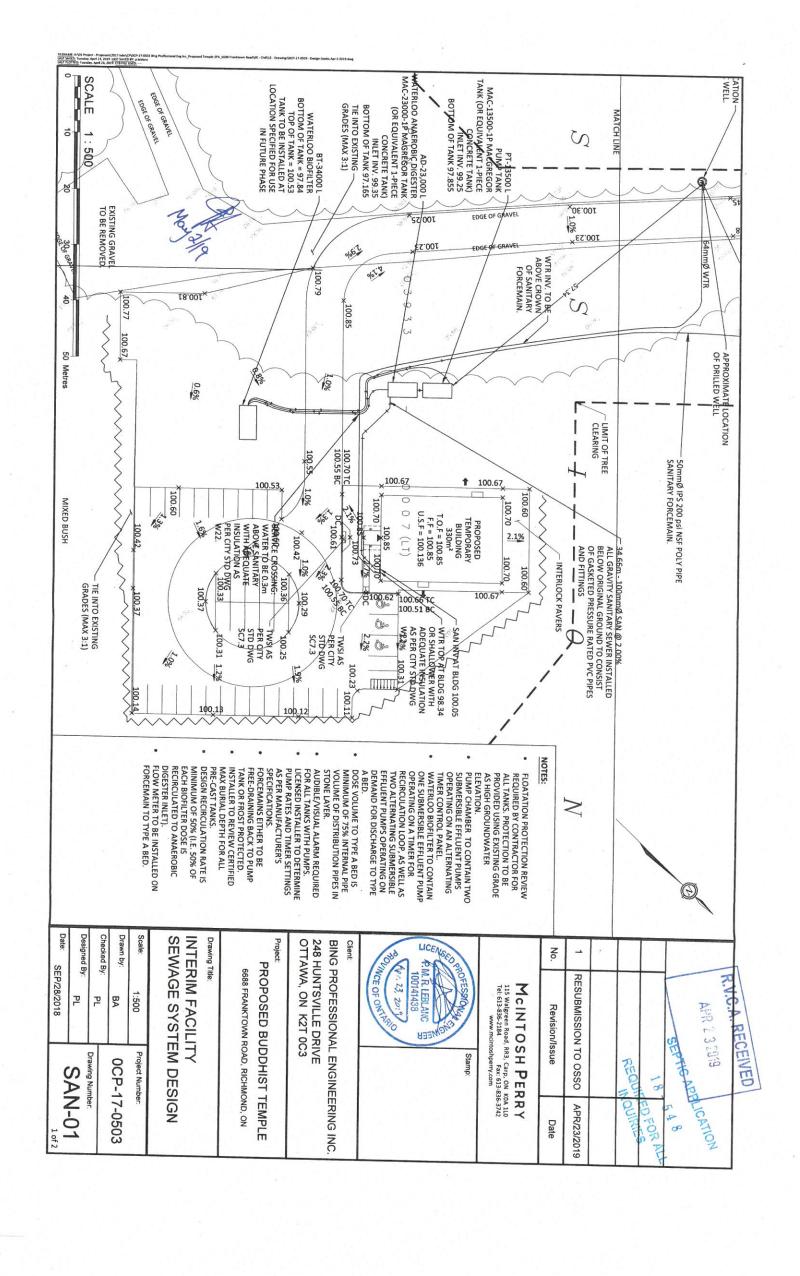
And I want to the same of the	April 23, 2019	
Agent/Owner signature	Date	

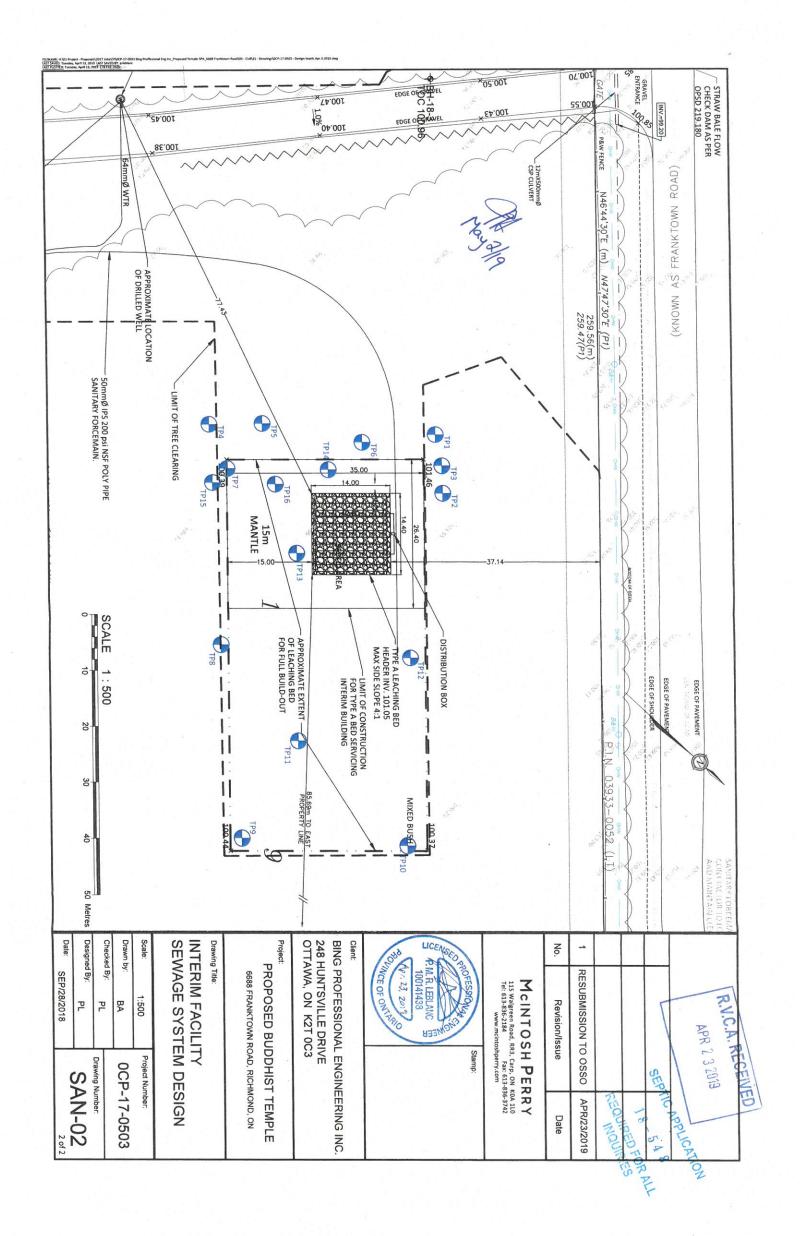


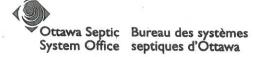












## **Permit**Part 8 – Sewage System Ontario Building Code

A copy of this permit must be posted on the property at all time during construction. OBC, Division C — Part 1, Section 1.3.2.1

Do Not Comp		CATION
Permit No _		40
Revision No	18	TOR ALL
Date	WIRE	DFU
Related Applic	ation INO	UIKIL

Inspected & Recommended by: T. Hutton Inspection Date & Time: April 30/19 (9:00AM)  Civic Address: 6688 Fronktown Rd-	Owner: International Buddhist Pro Weather: Society of Ottawa Carleto Legal:
number of bedrooms:finished floor area:	fixture units: Q:
septic/holding tank/pretreatment tank AD - 23000 L effluent filter	weigh bills for filter media  yes no grain size analysis required  yes no site to be scarified  yes no clay seal inspection  yes no mantle required  yes no sub-grade inspection  yes no
TYPE OF SYSTEM  Trench Pipe and Stone or Chambers  type of chamber  loading area	Shallow Buried Trench  pipe length
maintenance/pumping required	d engineer to verify Subgrade Squirt height Revision Date:

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

**Appendix F – Drawings** 



