



**CORPORATION OF THE CITY OF PEMBROKE
BUILDING DEPARTMENT**

1 PEMBROKE STREET EAST • PEMBROKE • ON • K8A 3J5
PHONE 613-735-6821 x1304 • FAX 613-735-3660 • www.pembroke.ca • mschultz@pembroke.ca

APPLICATION FOR A SEWAGE SYSTEM PERMIT APPLICATION

Owner	Applicant
Address	Address
Postal Code:	Postal Code:
Tel: Home: Bus:	Tel: Home: Bus:

I/We propose to install enlarge replace a sewage system to serve a:
 proposed single family dwelling existing single family dwelling other premises _____.

# of Bedrooms	Commercial (Please indicate type and usage)	Total Fixture Units	Total Finished Floor Area in m ² (Residence)

Civic Address: _____

Legal Description: _____

Lot Size: _____ x _____ Water Supply: proposed existing

Well Type: Municipal Dug Drilled Casing Depth: _____

Water Softener: Yes No

Soil Type (first 2 metres) Sand Gravel Silt or Clay Other _____

Soil Depth (in metres) To Rock: _____ To High Water Table: _____

Fixture Unit Count

Description of Fixtures	Total #	X (multiply)	Fixture Units	Total Fixture Units
Water Closet (flush tank)			4	
Each sink			1.5	
Bathtub and Shower			1.5	
Dishwasher			1.5	
Clothes washing machine			1.5	
Single or double laundry tub			1.5	
Other				
Other				
TOTAL				

Conditions for Approval (for Inspector)

Inspector: _____ Date: _____

Office Use Only

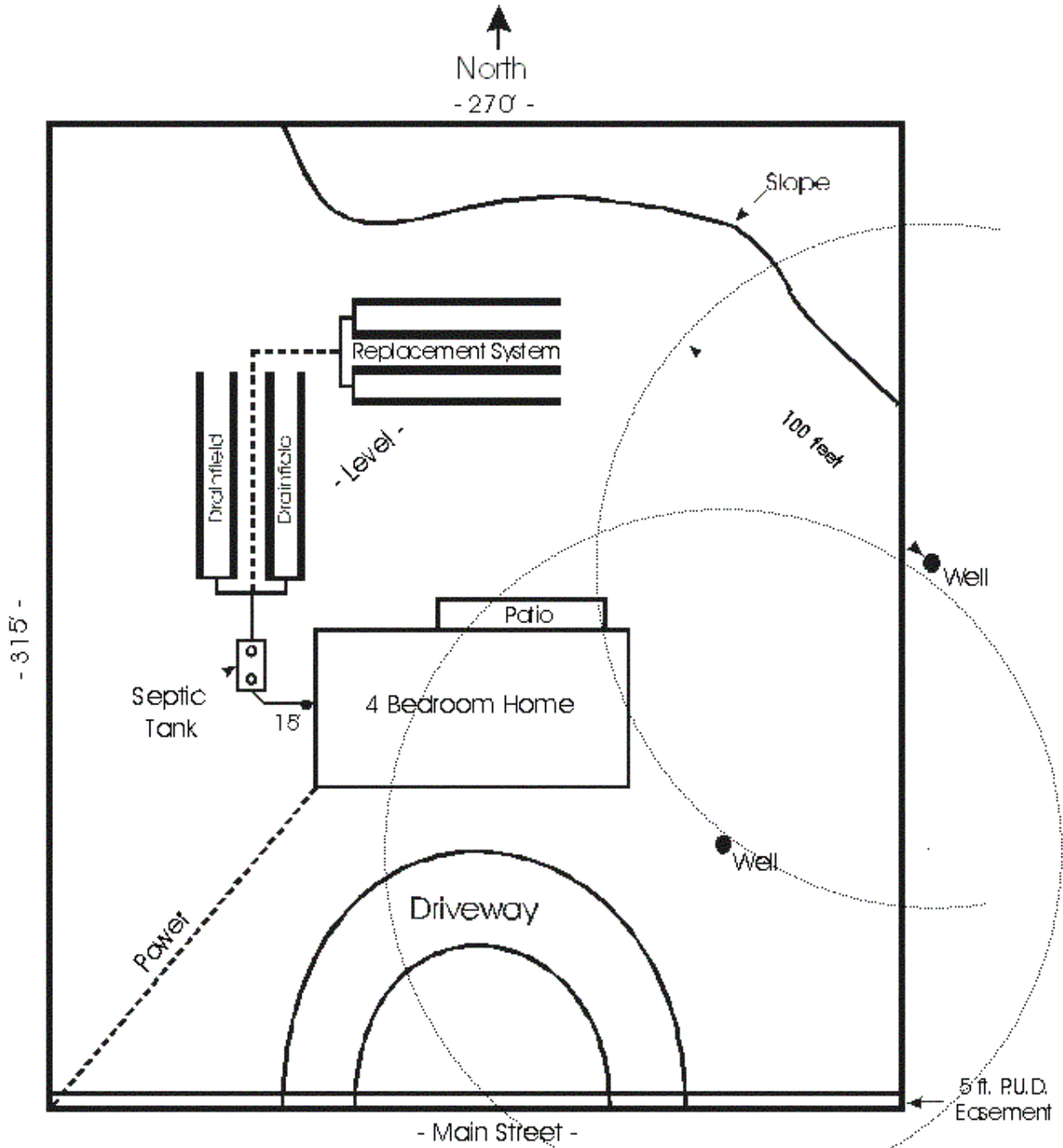
Permit #: _____ Fee Receipt #: _____

Date Received: _____

Schedule 2: Sewage System Installer Information

A. Project Information			
Building number, street name		Unit number	Lot/con.
Municipality	Postal code	Plan number/ other description	
B. Sewage system installer			
Is the installer of the sewage system engaged in the business of constructing on-site, installing, repairing, servicing, cleaning or emptying sewage systems, in accordance with Building Code Article 3.3.1.1, Division C?			
<input type="checkbox"/> Yes (Continue to Section C) <input type="checkbox"/> No (Continue to Section E) <input type="checkbox"/> Installer unknown at time of application (Continue to Section E)			
C. Registered installer information (where answer 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 information (where answer to section B is "Yes")			
Name of qualified supervisor(s)		Building Code Identification Number (BCIN)	
E. Declaration of Applicant:			
<p>I _____ declare that:</p> <p style="text-align: center;">(print name)</p> <p><input type="checkbox"/> I am the applicant for the permit to construct the sewage system. If the installer is unknown at time of application, I shall submit a new Schedule 2 prior to construction when the installer is known;</p> <p><u>OR</u></p> <p><input type="checkbox"/> I am the holder of the permit to construct the sewage system, and am submitting a new Schedule 2, now that the installer is known.</p> <p>I certify that:</p> <ol style="list-style-type: none"> 1. The information contained in this schedule is true to the best of my knowledge. 2. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership. <p>_____</p> <p style="display: flex; justify-content: space-between;"> Date Signature of applicant </p>			

SAMPLE SITE PLAN



Directions to site: Go North on Highway 83, 3.5 miles to Apple Lane, then East $\frac{3}{4}$ mile to Main Street. Turn South and go 1.2 miles. Site is on North side of the street.

Scale | 50 feet |



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SEWAGE SYSTEM CHECKLIST: SOME FACTORS TO CONSIDER

System and Site Selection

- Will the installer obtain a permit and provide you an inspection report?**
Make sure the person doing the work for you is a certified installer. The owner is entitled to a copy of the permit and inspection report(s) from the inspection agency. A copy of the Permit and Inspection Report may be required if and when you sell your property.
- Will the installer arrange for an inspection prior to covering the system?**
- Was a site evaluation performed?**
A proper site evaluation requires a visit to the site to examine the site conditions and determine the type and size of system you need.
- Was the underlying soil analyzed to identify soil layers that affect system performance and was it determined that there are no saturated soil conditions present that can harm the system?**
The soil under the surface can change rapidly. A thin soil layer below the bottom of your system can prevent or slow the sewage effluent soaking into the soil making the system fail. Soils saturated with water during parts of the year can also cause a system to fail.
- Has there been consideration of the S.A.R. (Sodium Adsorption Ratio) of the water used in your home or if a water softener is used in the home?**
Water with a high S.A.R. can reduce the soil's ability to absorb and move the water especially when significant amounts of Montmorillonite clay are in the soil. Sodium based water softeners can increase the S.A.R. of the water.
- Were other system types and designs considered or proposed?**
A number of technologies are available and there is usually more than one solution for sewage treatment at a site. Each offers advantages and disadvantages. Know what these are and pick the system that best suits your needs.

System Capacity

- Have the specific characteristics of your home been considered in determining what the "Expected Volume of Sewage per Day" used to design the system is?**
Minimum volumes are specified in the Standard and are based on the number of bedrooms for a basic home. If your home has features, beyond the basic home, that might increase water use, additional volumes should be included.

System Sizing

- Is the size of the soil-based effluent treatment system (e.g. disposal field) different in each proposal(s) you have received from the certified installer(s) and are they the right size?**

If there is a difference between the sizes of systems proposed, determine the reason for the difference and which is right for you. Ask your installer questions about the design. Some types of Private Sewage Systems can reduce the soil-based effluent treatment area required as compared to the others.

The required size of the effluent treatment system varies greatly depending if the system utilizes primary treated effluent (i.e., septic tank) or secondary treated effluent (i.e. package treatment plant, sand filter, mound, etc.).

System sizing is also dependent on the manner in which the treated effluent is distributed to the final soil treatment component, such as gravity or pressure distribution. Another variable is whether the soils are sandy soils and clayey soils. Clayey soils will typically have a slow infiltration rate and require a large soil infiltration area as compared to sandy loam soil. The soil must be investigated using a testpit to develop a characterization of the soil profile down to 5 to 9 feet below surface. This investigation needs to determine the texture, structure and grade of the different soil layers (with a soil sample from the depth of the soil profile that most impacts the design and this sample must be sent to a certified laboratory for particle size analysis), these characteristics considered together dictate the ability of the soil to absorb and treat the effluent. It is critical to the effectiveness of your system that it be sized for your soil type and the constraints that may exist in the soil (i.e., shallow groundwater, restrictive soil layers such as fine-grained clays or coarse-grained sands, etc.).

Without this information the design of your sewage system is likely to be inadequate and can lead to failure within a couple of years or less.

System Operation

- Is a complete operations and maintenance manual provided for the system?**
Ask for a sample of the operations and maintenance manual that will be provided for the overall system. The maintenance manual should be specific to your system and provide principles of operation, construction details, and all operating and maintenance requirements.

- Have any water treatment devices you plan to use been considered in the design of the system?**
Water treatment devices may cause problems within the private sewage system if they are not considered in the system design.