APPROXIMATE SOIL PERCOLATION RATES (T-time)

The following are **estimated** ranges of soil percolation rates (T-times) measured in a rate of min/cm. Actual on-site soil conditions may vary significantly from estimates; it can be difficult to tell a 30 from a 50 just by looking at it.

Estimated T-times shall be determined by samples analyzed by the Unified Soil Classification System, the Soil Texture Classification from the USDA Soil Survey Manual, or percolation tests being conducted on in-situ soils.

Disputes about estimated T-times shall be resolved by sending in-situ soil samples to a Canadian Council of Independent Laboratories testing firm at the applicant's cost. The T-time will be determined by the falling head test and grain size analysis; the percent passing the 75 μ m #200 sieve is to be included for silt content.

Soil Type	Sand	Sandy Loam	Loam	Silty Loam	Clay Loam	Silt - Clay	Clay
T-time (min/cm)	10	12 - 20	17 - 25	20 - 30	30 - 40	40 - 50	50+

Sub-surface conditions end	Δ	pplica	Approved by Inspector				
Indicate <u>depth</u> to bedrock, T>50, &/or high ground water table (where present):	Depth (m)	Soil typ	<u>e</u>	<u>T-time</u>	□ Yes		
IMPORTED SEPTIC STONE AND LEACHING BED FILL CERTIFICATION REQUIRED PRIOR TO FINAL INSPECTION							
I,, certify that the materials used to construct the sewage system, under the application herein, meet Ontario Building Code requirements, and correspond to the percolation rate on the application and the soils analysis provided to the Township of Asphodel-Norwood:							
NAME / NUMBER OF LICENSED AGGREGATE		TYPE OF ATERIAL	T-TIM	ME / SILT CONTEN	IT TESTING DATE (mm/dd/yyyy)		
				/	, , , , , ,		

		1				
		/				
		/				
Note: Leaching bed fill means soil used to construct of conventional and chamber leaching beds, filter beds, dispersal beds, and area beds as prescribed under specific Building Materials Evaluation Commission						

dispersal beds, and area beds as prescribed under specific Building Materials Evaluation Commission authorizations. It may not include a requirement for other soils as prescribed by treatment unit manufacturers; check with the manufacturer before installation. The silt content of *leaching bed fill* must be included in the analysis.

The Township of Asphodel-Norwood may require you to submit soil samples for analysis.								
Signature of Authorized Agent or Owner	Date							

4A: Design Criteria

		DWE	LLING		OTHER:				
DESCRIPTION	Total # of Existing	Total # of Proposed	#UNITS PER FIXTURE	TOTAL FIXTURE UNITS	Total # of Existing	Total # of Proposed	#UNITS PER FIXTURE	TOTAL FIXTURE UNITS	
Bathroom group – 3 piece (toilet, sink, tub/shower)			x 6.0 =				x 6.0 =		
Additional toilet			x 4.0 =				x 4.0 =		
Bathtub or shower		x 1.5 =				x 1.5 =			
Additional sinks	Additional sinks		x 1.5 =				x 1.5 =		
Kitchen sink			x 1.5 =				x 1.5 =		
Dishwasher			x 1.0 =				x 1.0 =		
Clothes Washer	Clothes Washer		x 1.5 =				x 1.5 =		
Laundry tub	aundry tub		x 1.5 =				x 1.5 =		
Other:			x =				x =		
FIXTURE UNITS		Total:				Total:			
FINISHED FLOOR AREA m ²	Existing	Proposed	Tota		Existing	Proposed	Tota	l	
# OF BEDROOMS			Tota	al:			Tota	al:	

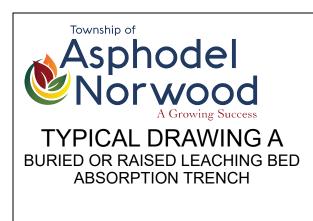
DESIGN FLOW CALCULATION TABLE									
Residential Occupancy Volume (L) Flows									
	1 bedroom dwelling		750						
(A) Bedroom flow	2 bedroom dwelling		1100						
	3 bedroom dwelling	1600							
	4 bedroom dwelling		2000						
	5 bedroom dwelling		2500						
(B) Extra bedroom flow	Each bedroom over 5,		500						
	Each 10 m ² (or part thereof) over 200 m ² up to 400 m ² ,		100						
(C) Living area flow	Each 10 m ² (or part thereof) over 400 m ² up to 600 m ² , and		75						
	Each 10 m ² (or part thereof) over 600 m ² , or		50						
(D) Fixture count flow	Each fixture unit over 20 fixture units		50						

Daily Design Sewage Flow, Q =	liters/day A + (B or C or D)
	whichever is greater

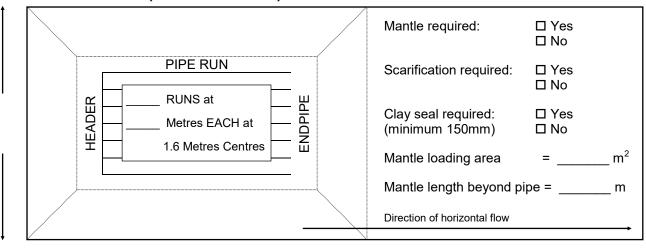
Class 4 and 5

5A: Proposal to Construct

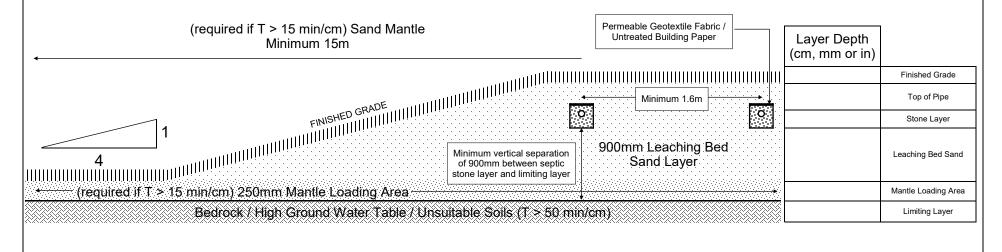
Water Supply:	□ Pr	oposed		□ Existing								
□ Lake	☐ Drilled well			☐ Dug well		Other (spec	oif.():					
☐ Shore well Casing depth:		_ m	□ Sandpoint	u	Other (specify):							
Provide proposed information instead of minimum requ						iirements:						
☐ Septic Ta	nk	☐ Cla	ss 5	Holding Tank		□ Treatm	ent Unit		Dige	ster Tank		
■ New – proposed working capa				lit	res	☐ Level II ☐ Level III ☐ Level IV						
☐ Use existing	– size:		Perm	it		Make / mod treatment u						
								N N L .		4		
T-time (min/cm) of existing soil:		Subsurfa detection		d:		Pump requ	$\Pi \Gamma \triangle \Omega \Gamma \Gamma$	- IBD - Eπiuent				
								ľ	.			
Mantle Lo	oading Area			rcolation Time (T) oxisting Soil, min/cm		1 < T ≤ 20	20 < T ≤ 35	35 < T	≤ 50	T > 50		
	nly	illoi boa	Load	ling Rates, (L/m²)/	day	10	8	6		4		
□ Existing Soil (T ≤ 15)□ Imported Leaching Bed Fill			Q ÷ Loading Rate = m² Length m x Width m						m			
-												
Class 4 Trend			Total pipe length: $\frac{Q \times T}{} = \underline{\qquad} m$ Raised height (above grade): $\underline{\qquad} m$									
Class 4 Leac Typical Drawing		nbers	Conventional & Type I Leaching Chambers $\frac{Q \times T}{200}$ Type II Leaching Chambers $\frac{Q \times T}{300}$									
Class 4 Filter Typical Drawing			Loadir	ng area: Q ÷ 75 / 50	=_	m²	If over 50 m ² ,	# of filter	beds:			
If Q ≤ 3000 L/day, Q÷75 If Q > 3000 L/day, Q÷50		C	Contact area: $\frac{Q \times T}{850}$	=	m²	Raised heigl	ht (above	grade)	:m			
Class 4 BME			Speci	ified sand area: $\frac{Q \times}{40}$	$\frac{T}{0} = \frac{1}{2}$	m²	Length	m	x Width	n m		
Typical Drawing C, D or E		Numb	mber of modules: Q ÷ = Raised height (above grade): n					: m				
Tyme A Diese	weel Dad											
Type A Dispe Typical Drawing			Ston	e area: Q ÷ 75 / 50) = _	m ²	Raised heigh	nt: (above	grade)	:m		
If Q ≤ 3000 L/da If Q > 3000 L/da	•		1 <t≤< td=""><td>15 sand area: $\frac{Q{\times}T}{850}$</td><td>=_</td><td> m²</td><td>T > 15 sand</td><td>area: Q×</td><td>$\frac{T}{0} = \underline{}$</td><td> m²</td></t≤<>	15 sand area: $\frac{Q{\times}T}{850}$	=_	m²	T > 15 sand	area: Q×	$\frac{T}{0} = \underline{}$	m²		

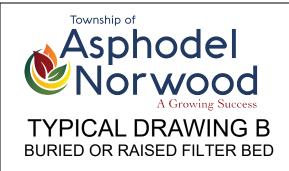


Plan View (not to scale)

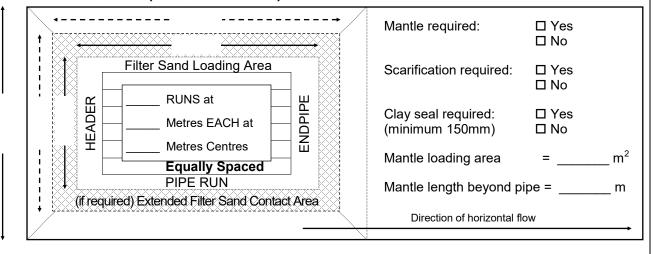


Cross-Section Profile (not to scale)

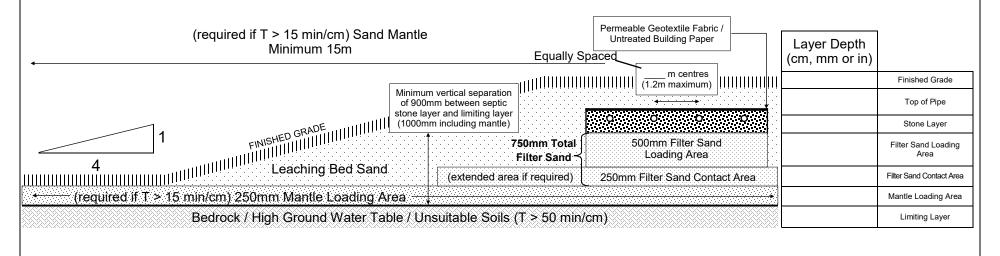




Plan View (not to scale)



Cross-Section Profile (not to scale)





Building Department 2357 County Road 45 Norwood ON, K0L 2V0 705-639-5343

Agent/Owner Authorization Form

A.	Project Information
Street	Address:
Propo	sed project:
В.	Party to be authorized
Name	:
Corpo	ration or Partnership:
Addre	ss:Lot/Con:
Phone	e #: Cell #: Email:
C.	Declaration of Owner
I,	, being the Registered Owner of the above
	rty hereby authorize the party stated in Section B of this form to make application
for pe	rmit on my behalf to Building Department of the Township of Asphodel Norwood
in acc	ordance with the applicable requirements of the Ontario Building Code for the
purpo	se of the identified project.
Date:	Signature:

The Ontario Building Code states that "owner includes, in respect of the property on which the construction or demolition will take place, the registered owner, a lessee or mortgagee in possession".

Note: This form is valid only for one access to Building Permit record application. Subsequent applications by an authorized agent will require a new agent authorization form completed by the current property owner.