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Schedule 3A: Sewage System Specifications

A. Proposed Sewage Sys	stem	m □ Residential					☐ Commercial				
☐ New Installation		☐ Repla	ient 🗆 /	☐ Alteration ☐ Repa				air			
B. Proposed Sewage Sys	stem	Туре									
☐ CLASS 2 – LEACHIN	G PIT	(Limited Use))	☐ CLAS	S 3 –	CES	S POOL (R	estric	ted Use)		
☐ CLASS 4 – SEWAGE	SYST	EM		☐ CLASS	S 5 –	HOLI	DING TANK	(Ten	nporary or Lir	mited U	se)
C. Building Information											
Plumbing Fixtures (Include roughed-in plumbing and proposed additions (future basement bathroom)											
Description		# Existing	+	#New (Propos	sed)	=	Total	x	Fixture Unit	=	Count
Example; Sink		0	+	1		H	1	x	1.5	=	1.5
Bath Group -toilet/sink/showe	er		+			=		х	6	=	
Sinks/Wash Basins			+					х	1.5	=	
Bathtub/Showers			+			=		х	1.5	=	
Toilets (flush tank)			+			=		х	4	=	
Dishwasher			+			=		х	1.5	=	
Laundry Tub/Washer Machin	е		+			=		х	1.5	=	
Water Softener backwashes	into Se	ewage System	1? [☐ Yes ☐ No			TOTAL FI	XTUF	RE UNITS	=	
Volume of Backwash				☐ Gal ☐ Litre	s						
D. Design Flow Calculati	one (O)									
D. Design Flow Calculati	0113 (ω) 									
BEDROOM FLOWS	#	of BEDROO	MS	Number		olume itres)		Flow	FINIS	HED FL (M	OOR AREA
(A)	(A) 1 Bedroom				750			FIRS		ST FLOOR	
□ 2 Bedrooms			1100					SECOND FLOOR			
	☐ 3 Bedrooms			1600					THIRD FLOOR		
		4 Bedro	oms		2	2000			TOTAL		
		5 Bedro	oms		2	2500			DESI	GN F	LOW "Q"
Extra Bedroom Over 5 (B)		Each Bed	room	ı		500			Q =	A + (B	or C or D)
		Each 10m 200m ² - 4	er e	100 75					A =		
LIVING AREA FLOWS									B =		
(C)		Each 10m 400m ² - 6	PF 2						C =		
	<u> </u>	Each 10 >6 <i>00n</i>				50			D = _		
FIXTURE COUNT FLOW (D)	<u> </u>	Each Fixture				50			Q =		_ litres/day
E. Septic Tank Size (Working Capacity) □ New CSA B66 Standard □ Existing □ Replacement											
Residential: Min. Tank Size = 2 x Q Non-Residential: Min. Tank Size = 3 x Q Proposed/Existing Working Capacity = Litres											
F. Other Treatment Unit		□ Tertiary			ı s	econ	dary				
Manufacturer		N	lode					BME			
		-	_					-			

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Schedule 3B: Soil Design Criteria and Site Evaluation

A. Percolation Rate of Design Soil (T										
Percolation Rate of Design Soil T = min/cm Native	Percolation Rate of Mantle Sand T = min/cm Native	☐ Laboratory Analysis☐ Lab Report Attached								
Note: The Town of The Blue Mountains requires documentation on the soils proposed to be used by a certified soil technician to determine the percolation rate ("T"-time) for conventional type fields or its suitability for filter bed sand in filter bed systems. All reports must be dated within 12 months of construction.										
B. Percolation Rate and Classification of Native Soil										
☐ Laboratory Analysis (Attached Rep	oort)	☐ Estimated (Unified System)								
TEST PIT SOIL DATA										

TEST PIT SOIL DATA									
	TEST PIT #1		TEST PIT #2						
Rock or Ground Water Table	Depth (metres)	Description of Soil	Rock or Ground Water Table	Depth (metres)	Description of Soil				
	- 0 -			- 0 -					
	- 0.25 -			- 0.25 -					
	- 0.50 -			- 0.50 -					
	- 0.75 -			- 0.75 -					
	- 1.00 -			- 1.00 -					
	- 1.25 -			- 1.25 -					
	- 1.50 -			- 1.50 -					
	- 1.80 -			- 1.80 -					
Depth to Groundwater		m	Depth to Groundwat	m					
Seasonal High Groundwater		m	Seasonal High Grou	m					
Depth to Bedrock		m	Depth to Bedrock	m					

ESTIMATED PERCOLATION RATE OF NATIVE SOIL									
	T-time (Min/cm)	Soil Type (Unified Soil Classification System)							
	4 – 12	Gravel, Sand Mix, some fines	GM – Permeable to medium permeable, depending on amount of silt.						
	12 – 50	Clayey Gravel, gravel-sand- clay mixtures	GC – Important to estimate amount of silt and clay.						
	2 – 12	Gravel, Sand Mix, some fines	SW – Medium permeability						
	2 – 8	Gravelly Sand, uniform, some fines	SP – Medium permeability						
	8 – 20	Silty Sand / Loam Mix	SM – Medium to low permeability						
	12 – 50	Clayey Sand/Silty Loam Mix	SC - Medium to low permeability depending on amount of clay						
	20 – 50	Inorganic silts/Clayey Silts	ML – Medium to low permeability						

	T =	mi	n./cm
Percolation	Time between	10 and	20 min/cm is ideal.

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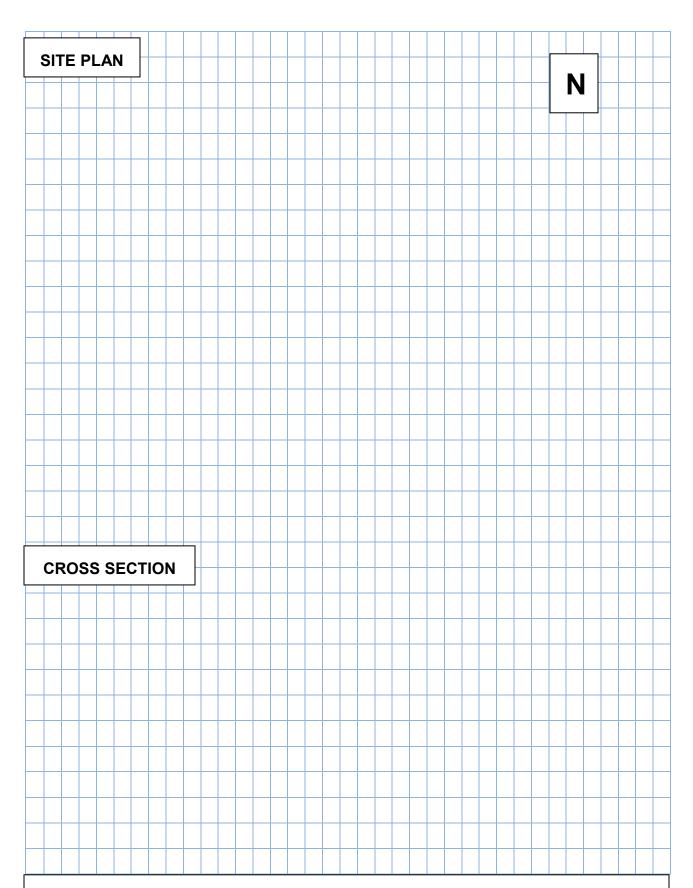
Schedule 3C: Class 4 Sewage System

	□ Raised Leaching Bed: Where "T" is <1 or >50 min/cm with imported fill										
	☐ Filter Bed System: Limited space with stone and sand filter										
☐ Shallow Buried Trench System – Designed by a Qualified Designer – Documents attached											
A.	ABSORPTION TRENCH		In-ground			Raised		Partially Raised			
	Length of Distribution Pipe (T= ≤ 50 min/cm): L = QT/200 L = m L = length of distribution pipe (min. 40m required)				Loading Rates (LRM) Fill-Based Trenches and Filter Beds (Table 8.7.4.1.A. OBC)						
	Q = daily design flow in litresT = percolation time of underly	ving soil (ı	max. 50 min/cm)				Percola	tion Time of Soil (T), (min/cm)	Loading Rates (L/m²)/day		
	Length of Distribution Pip	oe (T= >	50 min/cm):					1 < T <u><</u> 20	10		
	L = QT/40	L	=	m				20 < T <u><</u> 35	8		
	L = length of distribution pipe Q = daily design flow in litres	(min. 40m	required)					35 < T <u><</u> 50	6		
	T = percolation time of underly	ving soil (greater than 50	min/c	m)			T > 50	4		
	☐ Length of Distribution Pipe (With Treatment Unit): L = QT/300					□ Loading Area(A): Q /LRM= m ² A = area in m ² LRM= Loading Rate (see above table) □ Established Benchmark m					
	☐ BMEC Approved Trench System or Treatment Unit						□ Dose Pump Required □ Yes □				
Manufa	facturer BMEC #				Pump \$	s 150m or more)					
Length of Trench based on BMEC Report: L = m						ength of distribution pipe nt volume pumped per c	-				
В.	FILTER BED	☐ In	-ground		Rais	ed	☐ Pa	rtially Raised	8.7.5. OBC		
1.	Effective Filter Bed Area:						Pumn R	Required □ Ye	s 🗖 No		
<u> </u>	Q = 3,000 litres/day or less Q = Over 3,000 litres/day		75 = 50 =				Size □ 3'	" Diam. V = 3.3 x L	·		
2.	Contact Area:	Q x T/8	50 =	_ m²			L = total length of distribution pipe in the leaching be V = effluent volume pumped per cycle in litres				
3.	Mantle Area :	Q/LR	RM =	_ m ²							
	Established Benchmark			_ m							
C.	WATER SUPPLY	☐ Exis	sting		Pro	posed					
	Municipal	☐ Dri	lled Well		Dug	or Bore	d Well	□ Other			
Note: All wells within 30 metres, in use or abandoned, must be shown on the site plan.											
COMM	ENTS:										

☐ Conventional Leaching Bed : Where "T" is 1 to 50 min/cm and 900mm clearance from bedrock/high water table

Schedule 3D: Site Plan and Cross Section

Where a new dwelling or building is proposed, a drainage and grading plan prepared by a Professional Engineer or an Ontario Land Surveyor shall indicated the location of the proposed sewage system and components - where required by the Town's Fill and Grade By-law 2002-78.



The site plan and cross section is required and must contain the following information:

- Location and dimensions of all buildings
- All wells in use or abandoned within a 30 metre (100 ft) radius of the proposal
- All existing and proposed structures and swimming pools
- The location of any unsuitable, disturbed or compacted areas
- Any slopes (include slope degree and direction)
- The cross-sectional view of the proposal which includes house, tank and tile bed elevations as well as existing and finished ground levels or grades (recommend bench mark for tiles)
- All water bodies and ditches, drain tiles, swamps, flood plain or areas prone to flooding
- All driveways and proposed access routes for septic system in maintenance
- All field drains, underground hydro, water services and basement drains
- Proposed system layout including all system components including mantles and their setbacks from structures, lot lines and wells.