Application # _____ Date Application Rec'd ___/___/___ Fee Collected $ _____

(for office use only)

ALEXANDRIA TOWNSHIP PLANNING & ZONING DEPARTMENT
610 FILLMORE STREET, ALEXANDRIA, MN 56308
(320) 759-5300

Legal Property Owner _____ Parcel Number _____

Mailing Address _____

Property Address _____

Number of Bedrooms _____ System Design Flow _____ GPD

Hot Tub ☐ Yes ☐ No Soil Treatment Area Size _____ sq. ft.

Garbage Disposal ☐ Yes ☐ No Tank Size _____

System is ☐ New ☐ Replacement ☐ Other NOTE: All systems to be sized as type I, II, or III

Well Depth_____ Homeowner Signature _____

Data Prepared by _____ Date _____ Certificate #_____

Signature_____ Address_____ Phone #_____

SITE PLAN

NOTE: Include existing and proposed buildings, easements, property lines, lot dimensions, applicable setbacks, direction and % of slope, OHW, second site option and access route for tank maintenance.

Documentation of well depth for all wells (including neighboring properties) within 100 feet of proposed septic system is required. A written statement by homeowner is acceptable documentation.

PERCOLATION TEST DATA

-TWO TESTS ARE REQUIRED-

	Perc test #1	Perc test #2
Diameter of hole		
Depth to bottom of hole		
Did the hole require presoaking?		

PERC TEST #1

Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
	START			___ ÷ ___ = ___ TIME DROP PERC
Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
	START			___ ÷ ___ = ___ TIME DROP PERC
Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
	START			___ ÷ ___ = ___ TIME DROP PERC
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	START			___ ÷ ___ = ___ TIME DROP PERC
Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
	START			___ ÷ ___ = ___ TIME DROP PERC
Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
	START			___ ÷ ___ = ___ TIME DROP PERC

PERCOLATION RATE ____________________ SSF ________________

PERC TEST #2

Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
	START			___ ÷ ___ = ___ TIME DROP PERC
Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
	START			___ ÷ ___ = ___ TIME DROP PERC
Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
	START			___ ÷ ___ = ___ TIME DROP PERC
Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
	START			___ ÷ ___ = ___ TIME DROP PERC
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Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
	START			___ ÷ ___ = ___ TIME DROP PERC
Time	Interval (minutes)	Water Depth	Water Drop	Perc Rate
	START			___ ÷ ___ = ___ TIME DROP PERC

PERCOLATION RATE ____________________ SSF ________________

Anticipated construction related concerns: ____

____

____

SOIL BORING LOG

Is the area disturbed or compacted? Yes No Is the area located within a floodplain? Yes No

What is the landscape position?_____

Vegetation type? Wet Dry Unknown Drainage? Good Poor

Recommendations_____

TEST HOLE #1				TEST HOLE #2			
DEPTH (INCHES)	TEXTURE	MUNSELL COLOR*	STRUCTURE	DEPTH (INCHES)	TEXTURE	MUNSELL COLOR*	STRUCTURE
			Blocky Platy Prismatic Granular				Blocky Platy Prismatic Granular
			Blocky Platy Prismatic Granular				Blocky Platy Prismatic Granular
			Blocky Platy Prismatic Granular				Blocky Platy Prismatic Granular
			Blocky Platy Prismatic Granular				Blocky Platy Prismatic Granular
			Blocky Platy Prismatic Granular				Blocky Platy Prismatic Granular

Type of observation: boring pit probe

Soil map unit:_____

Elevation of boring:_____

Depth to standing water:_____

Depth to mottling:_____

Depth of system:_____

Type of observation: boring pit probe

Soil map unit:_____

Elevation of boring:_____

Depth to standing water:_____

Depth to mottling:_____

Depth of system:_____

*Please note: Soil horizons in the moist condition that exhibit mottles that have chromas of 2 or less and a value of 4 or more according to the standard Munsell color notation, indicate that the horizon is or has been saturated.

DESIGN CALCULATIONS

TRENCH DESIGN

Design Flow _____ GPD

TYPE	TRENCH BOTTOM REQUIRED	LF REQUIRED	ROCK (CUBIC YDS REQUIRED)
☐ Gravelless	[ ] sq. ft.	[ ] LF	
☐ 6" rock under pipe	[ ] sq. ft.	[ ] LF	[ ] cubic yards
☐ 12" rock under pipe	[ ] sq. ft.	[ ] LF	[ ] cubic yards
☐ 18" rock under pipe	[ ] sq. ft.	[ ] LF	[ ] cubic yards
☐ 24" rock under pipe	[ ] sq. ft.	[ ] LF	[ ] cubic yards

Please draw cross section of trench construction

Comments: _____

MOUND DESIGN

Please draw cross section of mound construction

Design flow _____ GPD
Land slope _____ %
Rock layer length _____ feet
Rock layer width _____ feet
Cubic yards of rock required _____
Required absorption width _____ feet
Total mound width _____ feet
Total mound length _____ feet
Downslope dike width _____ feet
Upslope dike width _____ feet
Number of perforated laterals _____
Number of perforations _____
Header pipe size _____
Elevation difference between pump & point of discharge _____
Total pipe length from pump to discharge point _____
Selected pump capacity _____ GPM
Total head _____ Feet of total head _____