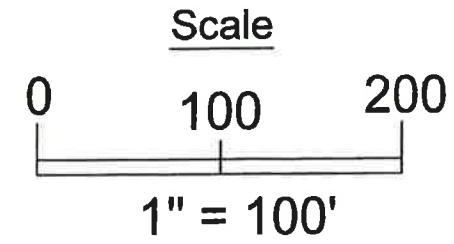


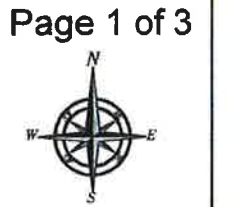
Ramsey Property
4023 OH-48
Lebanon, OH 45036
23.119 Acres

Current Mailing Address:
Nathan & Amanda Ramsey
798 Farview Ave
Lebanon, OH 45036
(513) 615-5511

Clear Creek Environmental
903 North Broadway
Lebanon, OH 45036
513-934-1040

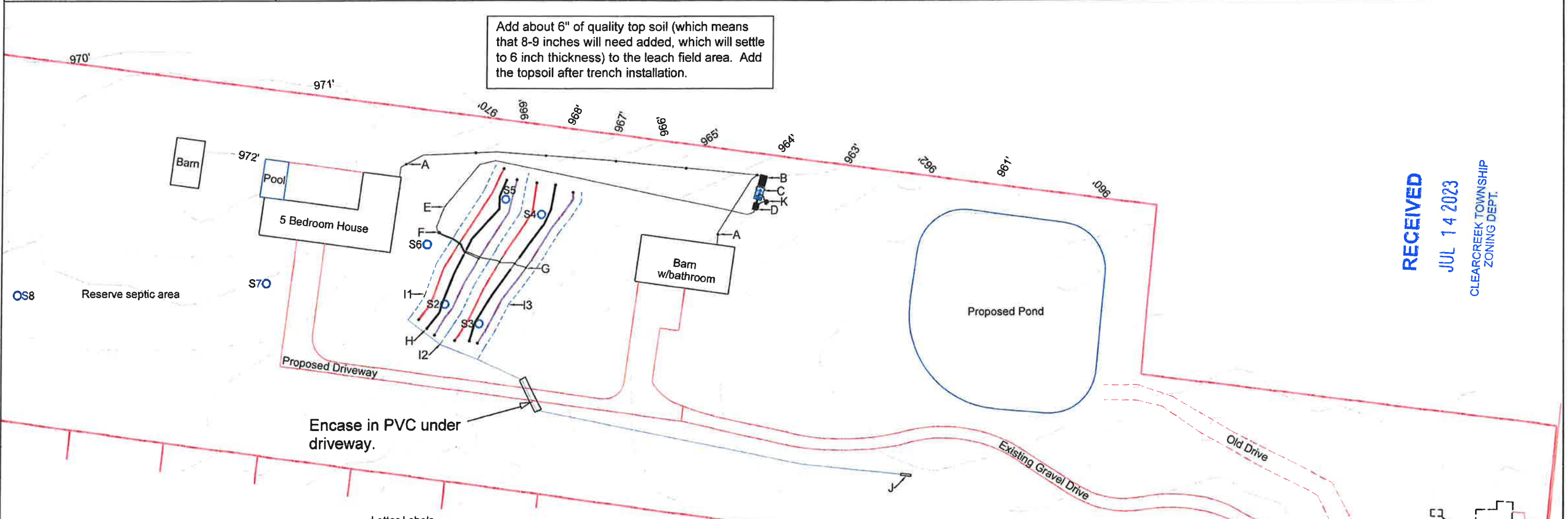


Legend
● - Soil Sample Site



Date: July 6th, 2023

Add about 6" of quality top soil (which means that 8-9 inches will need added, which will settle to 6 inch thickness) to the leach field area. Add the topsoil after trench installation.



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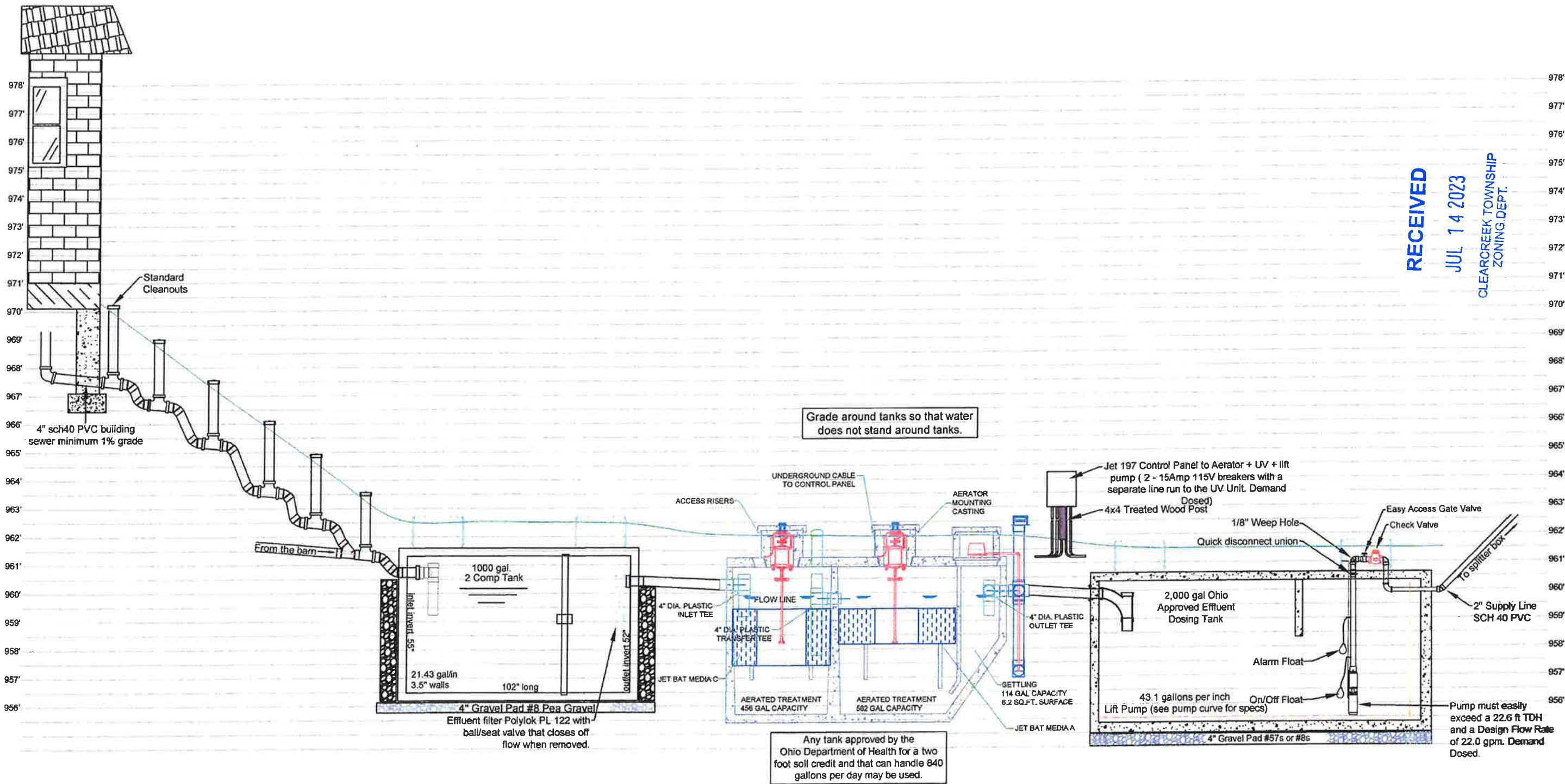
- OS8 Reserve septic area
- Letter Labels
- A - Standard clean outs into 4 inch Sch 40 PVC pipe with minimum 1% grade, approximately 397 feet in length from the house to the tank & 87 feet in length from the barn to the joint. There should be no more than 75 feet of piping between cleanouts.
 - B - 1,000 gallon two chamber septic tank fitted with outlet filter.
 - C - Aerobic treatment tank with ultra violet disinfection. Any tank approved by the Ohio Department of Health for a two foot soil credit and that is capable of handling at least 840 gallons per day may be used.
 - D - 2,000 gallon, one chamber lift tank with pump and high water alarm floats. A weep hole is placed between the pump & gate valve. A check valve is to be placed after the gate valve.
 - E - 2 inch diameter Sch 40 PVC feeder line approximately 388 feet in length to the first drop box. A 90 degree elbow is placed at the end of the pipe pointed downward inside the drop box. A 3/8" hole is drilled on the top of the elbow.
 - F - Splitter box installed on a firm level base. The splitter box equally feeds both fields. Use speed levelers to ensure equal flow to both fields.
 - G - Drop boxes in the middle of each trench. Each box is capable of shutting off flow to the trench it supplies.
 - H - Leach field with leaching trenches of 24" width and 8" depth into the original soil. After the addition of topsoil the trench will be 14"; 1,050 feet of total length in field; minimum 6' center to center separation, but 8' typical; Includes 6 trenches at 175 feet length each. Inspection ports at the end of each leach trench. The lines are split into 2 fields with 3 lines each. Alternating colored flags mark each line.
 - I1 - 12" wide x 24" minimum depth interceptor drain in gravel sloped 1/32" per foot to the outlet. Gravel extends to the surface. Install 8' away from the nearest leach line. Installer is to install 4 inch diameter temporary inspection ports placed 32 feet apart to allow for inspection access to the top of the drain pipe.
 - I2/I3 - 12" wide x 24" minimum depth gradient drain in gravel sloped 1/32" per foot to outlet. Gravel extends to 6" from the surface. Install 8' away from the nearest leach line. Installer is to install 4 inch diameter temporary inspection ports placed 32 feet apart to allow for inspection access to the top of the drain pipe.
 - J - Drain outlet line approximately 483 feet in length; portions with <12 inches cover must be 4 inch Sch 40 PVC. Minimum of last 10 feet must be 4 inch Sch 40 PVC w/ animal guard at outlet; 6 inches minimum freeboard. Sloped minimum 1/16 inch per foot to outlet. This line is not in gravel, and is not perforated.
 - K - Jet Model 197 power supply to the aerobic treatment system, UV disinfection unit, & lift pump. This panel takes two 15 amp 115V breakers. Demand Dosed.

Resting Statement
Once every 6 months, shut off a single line to each leach field. Alternate the speed levelers in order: Line 1 & 4, Line 2 & 5, Line 3 & 6, etc.

Installer & Builder:
CALL (8-1-1) BEFORE DIGGING!!!
The presence of underground utilities has not been verified by designer.

Warning to Installer: You must first verify elevations and layout prior to installation. Verify that all flags are on contour and of sufficient length according to the plan.

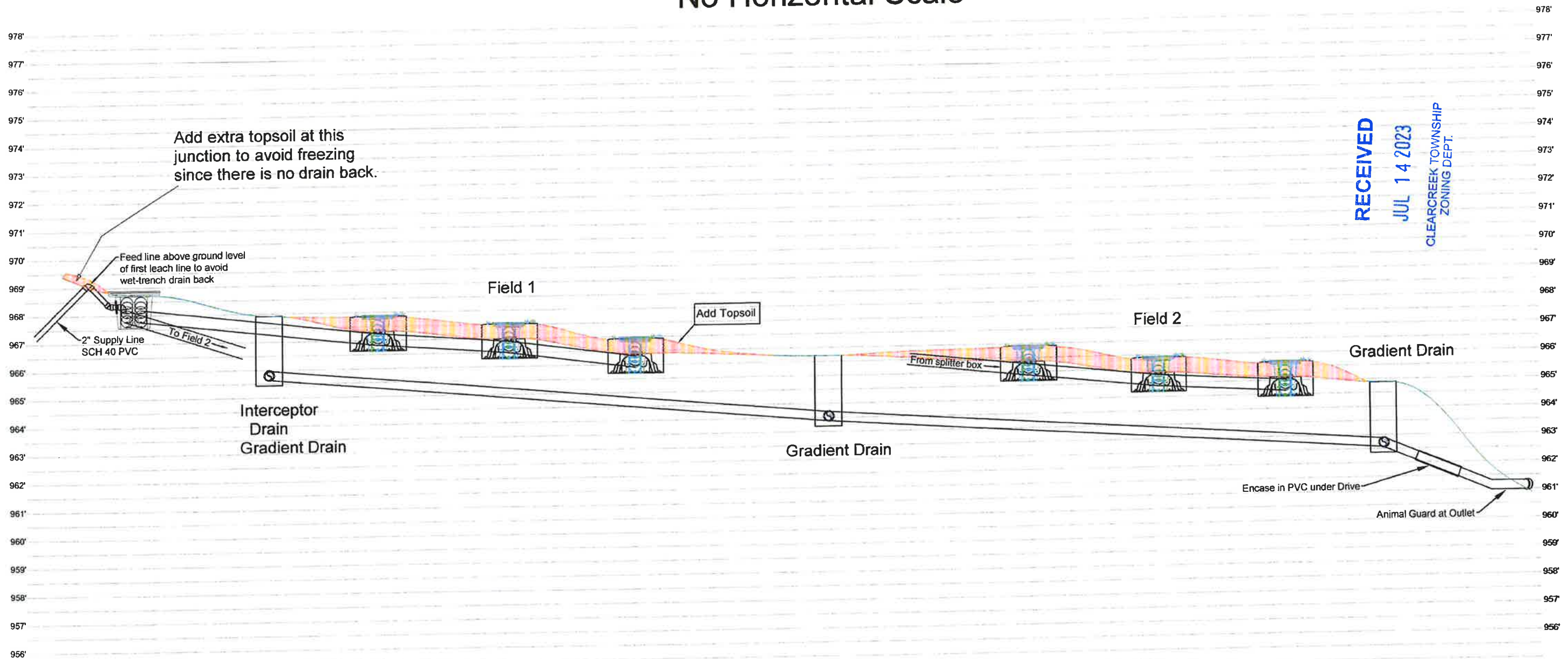
WARNING: Do not allow heavy equipment on leaching area. Avoid dumping or removal of soil material in this area. Downslope area also must not be disturbed.



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Ramsey - Profile

No Horizontal Scale



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Leachline Detail Cross Section

6" of added settled topsoil. Add this after trench is installed. Add about 8-9" which will settle to 6".

Original Grade

Slope

6 in.

1.4'

24" minimum width

Infiltrator Quick 4 Equalizer EQ36 LP22" wide chamber or equivalent

splash plate

Feeder Pipe Min. 1.5' Long

To Leach Line

Tuf-Tite Drop Box

- Trench bottom to be level- sides and bottom to be raked

Gravel Leachline Detail Cross Section

6" of added settled topsoil. Add this after trench is installed. Add about 8-9" which will settle to 6".

Original Grade

Slope

6 in.

1.4'

24" minimum width

ADS triple wall HCDG four inches I.D. ASTM

Filter fabric on top of bed

Feeder Pipe Min. 1.5' Long

To Leach Line

Tuf-Tite Drop Box

Coarse aggregate is number 57 washed natural rock, two inches above the pipe and two inches below the pipe and four inches toward the pipe bedding

- Trench bottom to be level- sides and bottom to be raked

Observation Tube
not to scale

4" Sch 40 PVC Pipe w/ open end flush on bottom of trench; Top of pipe cut off at ground level

Clean out must be secured to prevent pipe from being pulled out. Coupling installed inside chamber

1/2" holes placed every 2" up the sides of 4" pipe

Screw on cap

Toilet flange

Interceptor Drain

12" width

24" depth

Gravel to the surface

Geotextile fabric 6" below surface

Initial Depth = 24 in.

4" perforated pipe

Gradient Drains

12" width

24" depth

6 in topsoil

Geotextile fabric 6" below surface

Initial Depth = 24 in.

4" perforated pipe

Ramsey - Profile

Soil and Site Evaluation for Sewage Treatment and Dispersal

County: Warren
 Township/Sec.: Clear Creek
 Property Address/Location: 4023 Rt 48
Lebanon, OH 45036
 Parcel # / Subdiv. Lot #: #0804451002
 Applicant Name: Ramsey
 Address: 4023 Rt.48
Lebanon, OH 45036
 Phone #: 513-615-5511
 Lot #: _____
 Test Hole #: Sx2 to Sx12
 Latitude/Longitude: _____
 Method: Pit Auger X Probe

Land Use/Vegetation: Paths and Brush
 Landform: upland
 Position on Landform: side slope
 Percent Slope: 2%
 Shape of Slope: linear
 Coord. Method/Accuracy: GPS - 1ft.



Date: 10/2/2021 Certification Stamp or Certification#: #30586
 Evaluator: Dan Michael
903 North Broadway Signature: Dan Michael, CPSS
Lebanon, OH 45036
 Phone #: 513-934-1040

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)		Redoximorphic Features		Texture			Structure			
Horizon	Depth (inches)	Matrix color	Concentrations	Depletions	Class	Approx. % clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
Ap	0 - 8	10YR 4/2 dark grayish brown			silt loam	15%	0%	3 - strong	f	gr	friable	
Bt	8 - 18	10YR 4/4 dark yellowish brown	10YR 3/1 1%	10YR 5/2 20%	silty clay loam	32%	0%	2- moderate	m	SBK	firm	
2Btg	18 - 36	10YR 5/2 grayish brown	10YR 3/1 1%	10YR 5/2 50%	clay loam	37%	2%	2- moderate	m	SBK	firm	
2Cd	36 - +	10YR 5/3 brown		10YR 5/2 30%	loam	15%	7%	0-structureless		m - massive	very firm	strongly calcareous compact glacial till

Limiting Conditions	Depth to (in.)	Descriptive notes	Remarks/Risk Factors:
Perched Seasonal Water Table	8 in.		
Ground Water/Aquifer	> 50 in.		Other soil samples were taken at an earlier date that are shown on the map and not described here.
Highly Permeable Material (range)	> 50 in.		Other areas are wetter with a seasonal water table at the surface. Those other areas would
Bedrock	> 50 in.	Fractured - Karst (circle one)	require a mound.
Highly Weathered Soil	n/a		
Flow Restrictive Layer	36 in.	Dense glacial till	Avoid the wetlands area completely.
Fractured Glacial Till	>50 in.		
Other High Risk Limiting Conditions	> 50 in.		

Note: The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08

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Table 3. Soil Infiltration Loading Rates.

4023 Rt 48 Lot# Soil#-Sx2 to Sx12

Soil Characteristics			Soil Infiltration Loading RRate (gpd/ft2)		Row
Texture	Structure		CBOD5		
	Shape	Grade	>25mg/L (septic tank effluent)	<=25mg/L (pretreated effluent)	
COS, S, LCOS,LS	--	0SG	0.8	1.6	1
FS, VFS, LFS, LVFS	--	0SG	0.4	1	2
CSL, SL	--	0M	0.2	0.6	3
	PL	1	0.2	0.5	4
		2, 3	0	0	5
	PR/BK/GR	1	0.4	0.7	6
		2, 3	0.6	1	7
FSL, VFSL	--	0M	0.2	0.5	8
	PL	1,2,3	0	0	9
	PR/BK/GR	1	0.2	0.6	10
		2,3	0.4	0.8	11
L	--	0M	0.2	0.5	12
	PL	1,2,3	0	0	13
	PR/BK/GR	1	0.4	0.6	14
		2,3	0.6	0.8	15
SIL	--	0M	0	0	16
	PL	1,2,3	0	0	17
	PR/BK/GR	1	0.4	0.6	18
		2,3	0.6	0.8	19
SCL, CL, SICL	--	0M	0	0	20
	PL	1,2,3	0	0	21
	PR/BK/GR	1	0.2	0.3	22
		2,3	0.4	0.6	23
SC, C, SIC	--	0M	0	0	24
	PL	1,2,3	0	0	25
	PR/BK/G	1	0	0	26
		2,3	0.2	0.3	27

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Soil Characteristics			Hydraulic Linear Loading Rate (gpd/ft)									Row	
			Slope 0-4%			Slope 5-9%			Slope >10%				
Texture	Structure		Infiltrative Distance, (Inches)			Infiltrative Distance, (Inches)			Infiltrative Distance, (Inches)				
	Shape	Grade	8 - 12	12- 24	24- 48	8 - 12	12- 24	24- 48	8 - 12	12- 24	24- 48		
COS, S, LCOS,LS	--	OSG	4.0	5.0	6.0	5.0	6.0	7.0	6.0	7.0	8.0	1	
FS, VFS, LFS, LVFS	--	OSG	3.5	4.5	5.5	4.0	5.0	6.0	5.0	6.0	7.0	2	
CSL, SL	--	OM	3.0	3.5	4.0	3.6	4.1	4.6	5.0	6.0	7.0	3	
	PL	1	3.0	3.5	4.0	3.6	4.1	4.6	4.0	5.0	6.0	4	
		2, 3											5
		PR/BK/GR	1	3.5	4.5	5.5	4.0	5.0	6.0	5.0	6.0	7.0	6
		2, 3	3.5	4.5	5.5	4.0	5.0	6.0	5.0	6.0	7.0	7	
FSL, VFSL	--	OM	2.0	2.3	2.6	2.4	2.7	3.0	2.7	3.2	3.7	8	
	PL	1,2,3										9	
	PR/BK/GR	1	3.0	3.5	4.0	3.3	3.8	4.3	3.6	4.1	4.6	10	
		2,3	3.3	3.8	4.3	3.6	4.1	4.6	3.9	4.4	4.9	11	
L	--	OM	2.0	2.3	2.6	2.4	2.7	3.0	3.2	3.2	3.7	12	
	PL	1,2,3	-	-	-	-	-	-	-	-	-	13	
	PR/BK/GR	1	3.0	3.5	4.0	3.3	3.8	4.3	3.6	4.1	4.6	14	
		2,3	3.3	3.8	4.3	3.6	4.1	4.6	3.9	4.4	4.9	15	
SIL	--	OM	2.0	2.5	3.0	2.2	2.7	3.2	2.4	2.9	3.4	16	
	PL	1,2,3										17	
	PR/BK/GR	1	2.4	2.7	3.0	2.7	3.0	3.3	3.0	3.5	4.0	18	
		2,3	2.7	3.0	3.3	3.0	3.5	4.0	3.3	3.8	4.3	19	
SCL, CL, SICL	--	OM										20	
	PL	1,2,3										21	
	PR/BK/GR	1	2.0	2.5	3.0	2.2	2.7	3.2	2.4	2.9	3.4	22	
		2,3	2.4	2.9	3.4	2.7	3.0	3.3	3.0	3.5	4.0	23	
SC, C, SIC	--	OM										24	
	PL	1,2,3										25	
	PR/BK/GR	1										26	
		2,3	2.0	2.5	3.0	2.2	2.7	3.2	2.4	2.9	3.4	27	

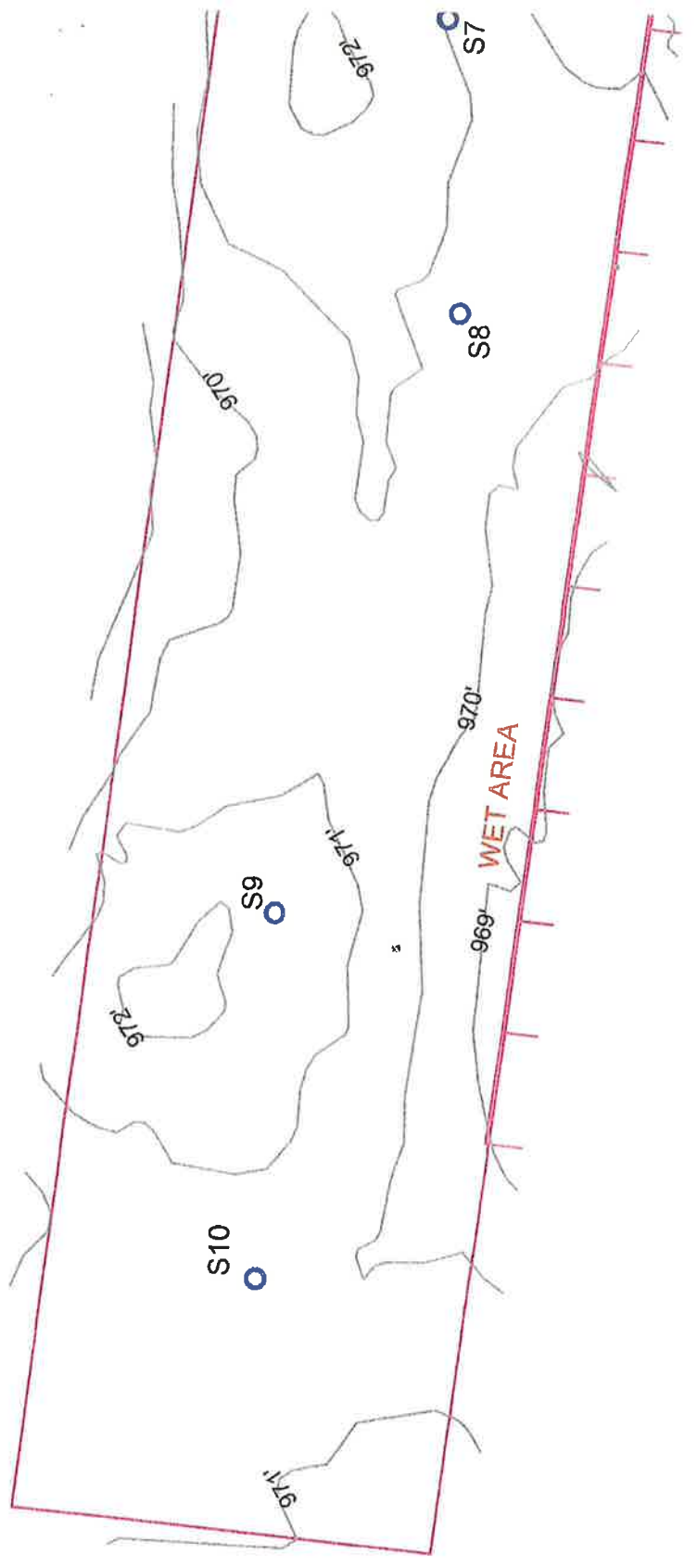
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Ramsey Property
023 OH - 48
ebanon, OH 45036

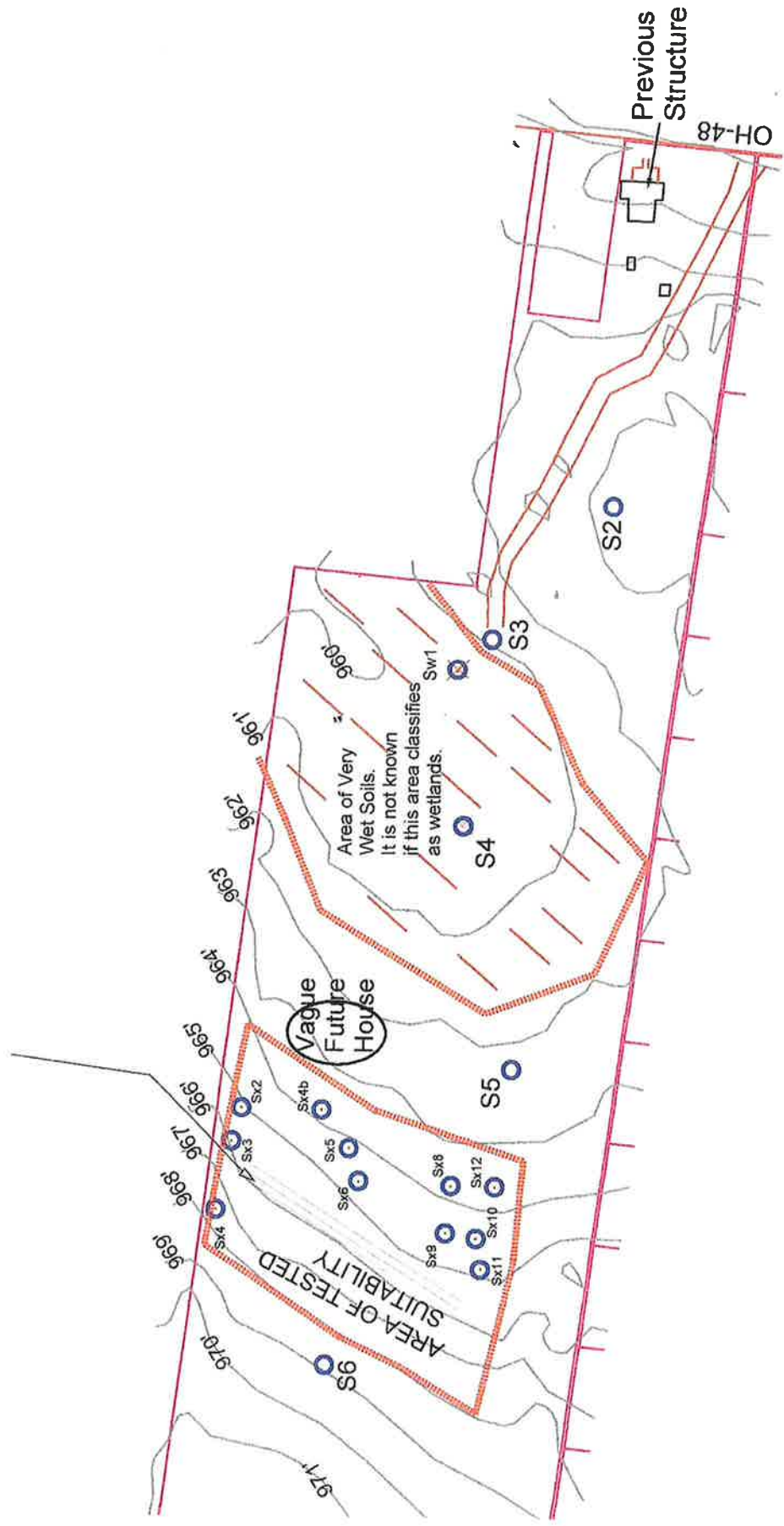
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This is not a site plan. For a site plan with accurate feature locations, contact a Professional Surveyor.
2 ft County GIS Contours shown. No actual measurements taken. Other features are from GIS. For more accurate locations, contact a Professional Surveyor.

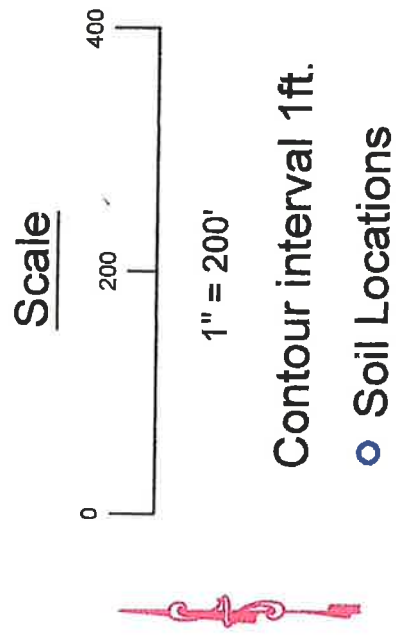
-Recommend Leach Line and the adjacent areas
-Mound. A other areas

A sample leach field 5 bedroom



ided Systems:
 after total pretreatment
 ition of topsoil.

nound would be required in
 not within the red dashed border.



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