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**Subject:** RE: [External] Re: [External] 33 Maplewood Road Septic Sketch  
**Date:** Wednesday, November 26, 2025 at 2:20:53 PM Eastern Standard Time  
**From:** Scott Freyburger  
**To:** Andrew Sciarabba  
**CC:** Craig Modisher, Justin Neu  
**Attachments:** image002.png, image004.png, image005.jpg, image006.jpg

That seems like are reasonable design with the ETU. Thanks for checking.

**Scott Freyburger, P.E., M. Eng.**  
**Public Health Engineer**  
Tompkins County Whole Health  
Division of Environmental Health  
55 Brown Road  
Ithaca, New York 14850  
607-274-6688  
<http://www.tompkinscountyny.gov/health>



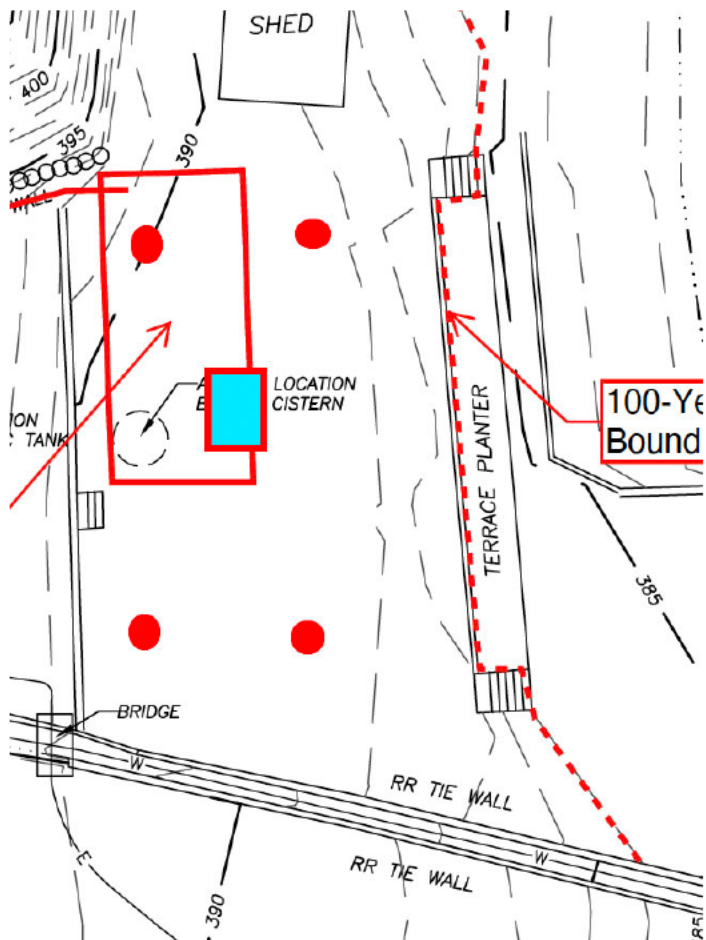
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**From:** Andrew Sciarabba [REDACTED]  
**Sent:** Wednesday, November 26, 2025 11:29 AM  
**To:** Scott Freyburger [REDACTED]  
**Cc:** Craig Modisher [REDACTED]  
**Subject:** [External] Re: [External] 33 Maplewood Road Septic Sketch

**[EXTERNAL EMAIL]** DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Sorry - I should have added them to the sketch. The DTH is the blue rectangle and the PT's are the red dots below.

Andy



Andrew J. Sciarabba, P.E.  
Owner/Principal Engineer

Sciarabba Engineering, PLLC  
9664 Kingtown Road, Trumansburg, NY 14886

607-327-0578  
[REDACTED]



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**From:** Scott Freyburger [REDACTED]  
**Date:** Wednesday, November 26, 2025 at 10:42 AM  
**To:** Andrew Sciarabba [REDACTED]  
**Cc:** Craig Modisher [REDACTED] Justin Neu  
[REDACTED]  
**Subject:** RE: [External] 33 Maplewood Road Septic Sketch

Andy,

Where were the DH and PTs taken? I am sorry if I missed this.

**Scott Freyburger, P.E., M. Eng.**

**Public Health Engineer**

Tompkins County Whole Health

Division of Environmental Health

55 Brown Road

Ithaca, New York 14850

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<http://www.tompkinscountyny.gov/health>



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**From:** Andrew Sciarabba [REDACTED]

**Sent:** Monday, November 24, 2025 3:48 PM

**To:** Scott Freyburger [REDACTED]

**Cc:** Craig Modisher [REDACTED]; Justin Neu [REDACTED]

**Subject:** [External] 33 Maplewood Road Septic Sketch

**[EXTERNAL EMAIL]** DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Scott,

Attached are the soils information and preliminary calculations for a replacement septic system at 33 Maplewood Road in the Town of Ulysses.

We would appreciate your review of the system to see if you approve of it in concept. We will certainly submit a formal application if we receive site plan approval from the Town but are seeking any preliminary comments you may have as we move through the Town approval process.

We meet with the Town on December 2nd for sketch plan so, if possible, we would appreciate a response ahead of the meeting.

Best for a great holiday!

Andy

**Andrew J. Sciarabba, P.E.**

Owner/Principal Engineer

**Sciarabba Engineering, PLLC**

9664 Kingtown Road, Trumansburg, NY 14886

607-327-0578



**Project No. 25-22**  
**33 Maplewood Road**  
**SOIL INVESTIGATION - DEEP TEST HOLES**

DEEP TEST HOLE							
DATE: 11/6/2025							
HOLE NUMBER	TOTAL DEPTH	HORIZON RANGE	SOIL DESCRIPTION	MOISTURE CONDITION	MOTTLING OBSERVED? DEPTH?	GROUND WATER OBSERVED? DEPTH?	ROCK OBSERVED? DEPTH?
1	66"	0"-4"	TOPSOIL	MOIST	N	N	N
		4"-14"	BROWN SILTY CLAY LOAM W/ MIXED SHALE	MOIST	N	N	N
		14"-28"	MOSTLY SHALE FILL WITH SOME LIGHT BROWN SILT LOAM	MOIST	N	N	N
		28"-66"	LIGHT BROWN SILT LOAM W/ SOME SHALE	DRY	N	N	N

**Project No. 25-22**  
**33 Maplewood Road**  
**SOIL INVESTIGATION - PERC TESTS**

PERCOLATION TESTS								
DATE: 11/6/2025								
HOLE NUMBER	DEPTH	SOIL PROFILE	TEST NUMBER/RESULT (MIN/INCH)					
			1	2	3	4	5	6
1	24"	0" - 4" TOPSOIL 4" - 24" BROWN SILTY CLAY LOAM WITH SHALE	<1	<1	<1	<1	-	-
2	24"	0" - 4" TOPSOIL 4" - 24" BROWN SILTY CLAY LOAM WITH SHALE	<1	<1	<1	<1	-	-
3	24"	0" - 4" TOPSOIL 4" - 24" BROWN SILTY CLAY LOAM WITH SHALE	<1	<1	<1	<1	-	-
4	24"	0" - 4" TOPSOIL 4" - 24" BROWN SILTY CLAY LOAM LESS SHALE	1	2	3	3	-	-
5	12"	0" - 4" TOPSOIL 12" BROWN SILTY CLAY LOAM LESS SHALE	3	3	3	-	-	-

# Browning 33 Maplewood Project No. 25-22

## SYSTEM SIZING CALCULATIONS (PER NYSDOH APPENDIX 75-A)

NUMBER OF BEDROOMS (EACH)	3
DAILY DESIGN FLOW/BEDROOM (GALLONS)	110
TOTAL DESIGN FLOW (GALLONS/DAY)	330

REQUIRED SEPTIC TANK SIZE (GALLONS)	1000
DUE TO PROXIMITY TO STREAM AND LAKE AN ENHANCED TREATMENT UNIT (ETU) IS PROPOSED	
MINIMUM ETU SIZE PER APPENDIX 75-A = GREATER OF 400 GALLONS/DAY OR DESIGN FLOW = 330 (GALLONS/DAY)	400
PROPOSED ETU SIZE - FUJICLEAN USA MODEL CE-5 (GALLONS/DAY)	500

### DETERMINE APPLICATION RATE

DEPTH OF USEABLE SOIL (INCHES)	66
SHALE LAYER AT 14" REQUIRES INSTALLING FIELD AT A SHALLOWER DEPTH - USE 12" PERC TEST RESULT	
PERCOLATION TEST RESULT RANGE IN UPPER 12" (MINUTES/INCH)	3
PERCOLATION TEST RESULT RANGE USED FOR DESIGN (MINUTES/INCH)	1 TO 5
APPLICATION RATE PER APPENDIX 75-A TABLE 6D (GALLONS/DAY/SQUARE FOOT)	1.20

DUE TO HIGH GROUND WATER, SYSTEM WILL BE A SHALLOW TRENCH SYSTEM WITH ELJEN GRAVELLESS GEOTEXTILE SAND FILTER TRENCHES.

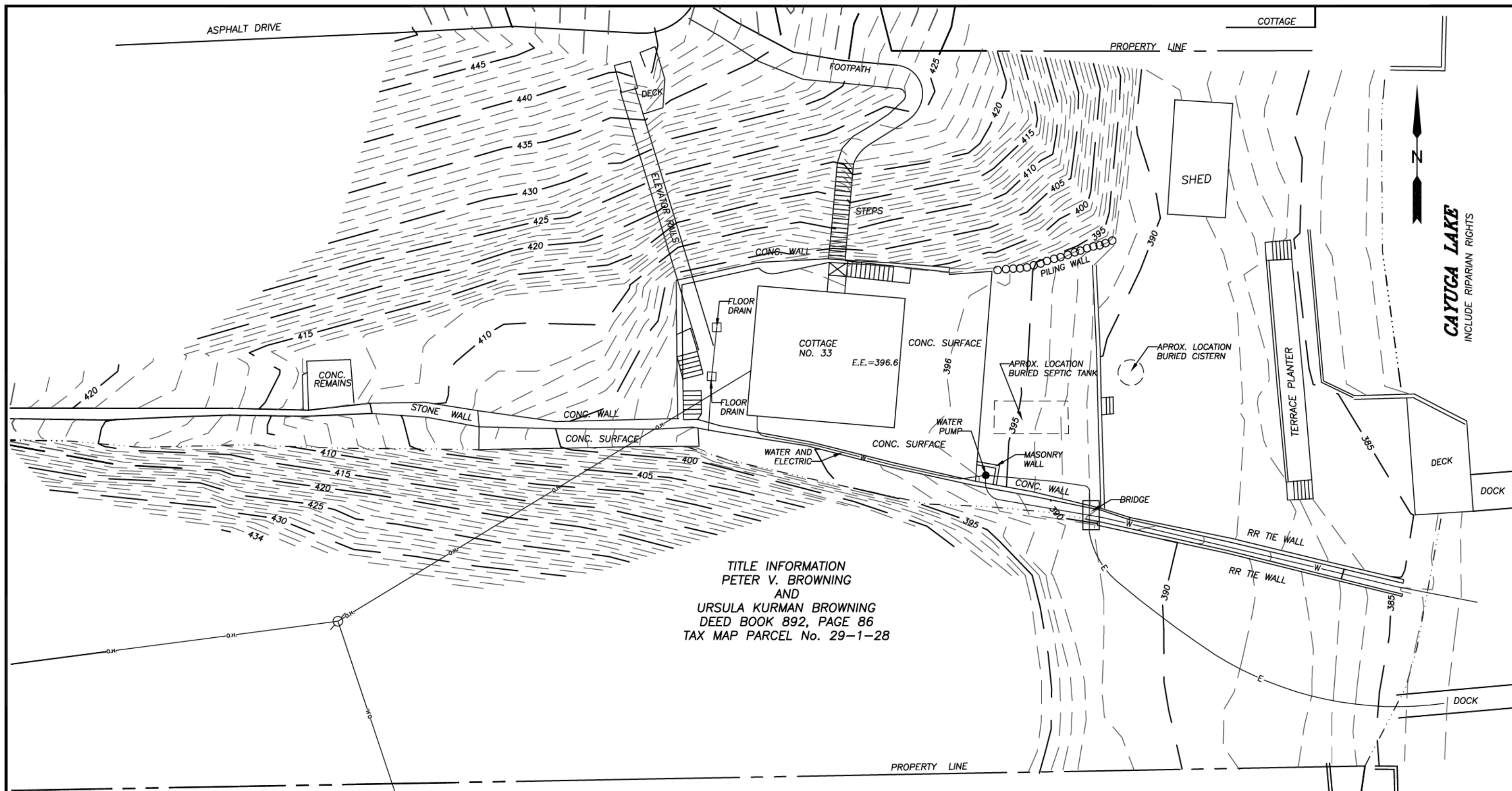
### SYSTEM SIZING

#### GRAVELLESS GEOTEXTILE SAND FILTER TRENCH SIZING

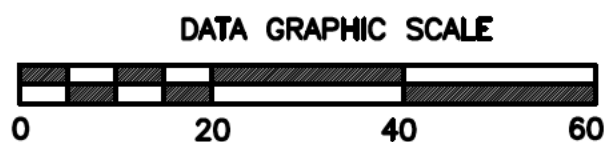
ABSORPTION TRENCH OR BED PROPOSED?	TRENCH
SLOPES LESS THAN 15%?	YES 4% OR LESS
ABSORPTION TRENCH AREA REQUIRED = DESIGN FLOW/APPLICATION RATE (SQUARE FEET)	275.0
REQUIRED ELJEN TRENCH LENGTH = REQ ABSORPTION TRENCH AREA/6' (FEET)	45.8
REQUIRED TRENCH LENGTH GREATER OF APPENDIX 75-A TABLE 6D (46') OR ELJEN TABLE 3 (60')	60.0
REQUIRED NUMBER OF MODULES PER ELJEN TABLE 4 (EACH)	15.0
PROPOSED NUMBER OF MODULES (EACH)	15.0
NUMBER OF ROWS (EACH)	3.0
REQUIRED TRENCH LENGTH PER ROW = REQUIRED TRENCH LENGTH/ NO OF ROWS (FEET)	20.0
PROPOSED TRENCH LENGTH (FEET)	20.0
TOTAL TRENCH LENGTH = PROPOSED TRENCH LENGTH +1 FT (FEET)	21.0
TRENCH SPACING CENTER-TO-CENTER (FEET)	8.0

#### BASAL AREA - SLOPING SITE - UNDER TRENCHES AND DOWNHILL TAPER ONLY

BASAL AREA REQUIRED = TRENCH AREA/0.80GAL/DAY/SQFT = 275.0/0.5 (SQUARE FEET)	343.8
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DATUM OF ELEVATIONS IS APPROXIMATE NGVD 1929 PER THE RECORDED LAKE LEVEL AT THE TIME OF THIS SURVEY



**WARNING**  
ALTERATION OF THIS MAP NOT  
CONFORMING TO SECTION 7209,  
SUBDIVISION 2, NEW YORK STATE  
EDUCATION LAW, ARE PROHIBITED  
BY LAW. ALL CERTIFICATIONS  
HEREON ARE VALID FOR THIS MAP  
AND COPIES THEREOF ONLY IF SAID  
MAP OR COPIES BEAR THE IMPRESSION  
SEAL OF THE LICENSED LAND SURVEYOR  
WHOSE SIGNATURE APPEARS HEREON.



**T. G. MILLER P.C.**  
ENGINEERS AND SURVEYORS  
203 NORTH AURORA STREET  
ITHACA, NEW YORK 14850  
TEL (607)272-6477

**TITLE:**  
**TOPOGRAPHIC MAP**  
***No. 33 MAPLEWOOD ROAD***  
TOWN OF ULYSSES, TOMPKINS COUNTY, NEW YORK

DATE: 10/4/2016

S16719

SCALE: 1"=20'

[illegible]